

REVISED AGENDA*
CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF
THE CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
BOARD OF LIBRARY TRUSTEES

February 25, 2014

SPECIAL PRESENTATIONS – 5:30 P.M.
REGULAR MEETING – 6:00 P.M.

City Council Study Sessions

First & Third Tuesdays of each month – 6:00 p.m.

City Council Meetings

Second & Fourth Tuesdays of each month – 6:00 p.m.

City Council Closed Sessions

*Immediately following Regular City Council Meetings and
Study Sessions, unless no Closed Session Items are Scheduled*

City Hall Council Chamber - 14177 Frederick Street

Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities, in compliance with the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to Mel Alonzo, ADA Coordinator, at 951.413.3705 at least 48 hours before the meeting. The 48-hour notification will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

Victoria Baca, Mayor Pro Tem
Jesse L. Molina, Council Member

Tom Owings, Mayor

Richard A. Stewart, Council Member
Yxstian Gutierrez, Council Member

REVISED AGENDA*
CITY COUNCIL OF THE CITY OF MORENO VALLEY
February 25, 2014

CALL TO ORDER – 5:30 PM

SPECIAL PRESENTATIONS

1) Inland Empire Branch of the American Public Works Association (APWA)
2013 Project of the Year Award for the Morrison Park Fire Station #99

2) Southern California Chapter of the American Public Works Association
(APWA) 2013 Project of the Year Award for the Cactus Avenue / Nason
Street Improvement Project

REVISED AGENDA*
JOINT MEETING OF THE
CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF THE
CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
AND THE BOARD OF LIBRARY TRUSTEES

THE CITY COUNCIL RECEIVES A SEPARATE STIPEND FOR CSD MEETINGS

REGULAR MEETING - 6:00 PM
FEBRUARY 25, 2014

CALL TO ORDER

Joint Meeting of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency, Housing Authority and the Board of Library Trustees - actions taken at the Joint Meeting are those of the Agency indicated on each Agenda item.

PLEDGE OF ALLEGIANCE

INVOCATION

Dr. Dale Lacquement - Faith Baptist Church

ROLL CALL

INTRODUCTIONS

PUBLIC COMMENTS ON MATTERS ON THE AGENDA WILL BE TAKEN UP AS THE ITEM IS CALLED FOR BUSINESS, BETWEEN STAFF'S REPORT AND CITY COUNCIL DELIBERATION (SPEAKER SLIPS MAY BE TURNED IN UNTIL THE ITEM IS CALLED FOR BUSINESS.)

PUBLIC COMMENTS ON ANY SUBJECT NOT ON THE AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL

Those wishing to speak should complete and submit a BLUE speaker slip to the Bailiff. There is a three-minute time limit per person. All remarks and questions shall be addressed to the presiding officer or to the City Council and not to any individual Council member, staff member or other person.

AGENDA
February 25, 2014

JOINT CONSENT CALENDARS (SECTIONS A-D)

All items listed under the Consent Calendars, Sections A, B, C, and D are considered to be routine and non-controversial, and may be enacted by one motion unless a member of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency, Housing Authority or the Board of Library Trustees requests that an item be removed for separate action. The motion to adopt the Consent Calendars is deemed to be a separate motion by each Agency and shall be so recorded by the City Clerk. Items withdrawn for report or discussion will be heard after public hearing items.

A. CONSENT CALENDAR-CITY COUNCIL

A.1 ORDINANCES - READING BY TITLE ONLY

Recommendation: Waive reading of all Ordinances.

A.2 MINUTES - REGULAR MEETING OF FEBRUARY 11, 2014 (Report of: City Clerk's Department)

Recommendation:

1. Approve as submitted.

A.3 CITY COUNCIL REPORTS ON REIMBURSABLE ACTIVITIES (Report of: City Clerk's Department)

Recommendation:

1. Receive and file the Reports on Reimbursable Activities for the period of February 5 – 18, 2014.

A.4 AUTHORIZATION TO AWARD THE CONSTRUCTION CONTRACT TO RUIZ CONCRETE & PAVING, INC. DBA RUIZ ENGINEERING FOR THE CYCLE 2 CITYWIDE SIDEWALKS AND ACCESS RAMPS, PROJECT NO. 801 0044 70 76 (Report of: Public Works Department)

Recommendations

1. Award the construction contract to Ruiz Concrete & Paving, Inc. dba Ruiz Engineering (Ruiz Concrete & Paving, Inc.), 1344 Temple Avenue, Long Beach, California 90804, the lowest responsible bidder, for the Cycle 2 Citywide Sidewalks and Access Ramps.
2. Authorize the City Manager to execute a contract with Ruiz Concrete & Paving, Inc.
3. Authorize the issuance of a Purchase Order to Ruiz Concrete & Paving, Inc., for the amount of \$165,898.80 (\$138,249.00 bid amount plus 20% contingency) when the contract has been signed by all

AGENDA
February 25, 2014

parties.

4. Authorize the Public Works Director/City Engineer to execute any subsequent related minor change orders to the contract with Ruiz Concrete & Paving, Inc. up to, but not exceeding, the contingency amount of \$27,649.80, subject to the approval of the City Attorney.
5. Authorize the Public Works Director/City Engineer to record the Notice of Completion once he determines the work is complete, accept the improvements into the City's maintained system and release the retention to Ruiz Concrete & Paving, Inc., if no claims are filed against the project.

A.5 AUTHORIZATION TO AWARD AGREEMENT FOR PROFESSIONAL CONSULTANT DESIGN SERVICES TO ALBERT A. WEBB ASSOCIATES FOR THE EAST SUNNYMEAD BOULEVARD STORM DRAIN IMPROVEMENTS – PROJECT NO. 804 0006 70 77 (Report of: Public Works Department)

Recommendations

1. Approve the Agreement for Professional Consultant Services with Albert A. Webb Associates, 3788 McCray Street, Riverside, CA 92506, to provide design services for the East Sunnymead Boulevard Storm Drain Improvements project.
2. Authorize the City Manager to execute the Agreement for Professional Consultant Services with Albert A. Webb Associates.
3. Authorize an issuance of a Purchase Order with Albert A. Webb Associates totaling \$126,815 when the Agreement has been signed by all parties.

A.6 PA07-0048 (PM 35500) RIGHT-OF-WAY EASEMENT (APN 316-190-035) FOR SAN CELESTE ROAD STREET IMPROVEMENTS (Report of: Public Works Department)

Recommendations

1. Adopt Resolution No. 2014-13. A Resolution of the City Council of the City of Moreno Valley, California, granting a public roadway easement on a city owned parcel fronting the east side of San Celeste Road between San Michelle Road and Rivard Road. Assessor Parcel Number 316-190-035.
2. Authorize the granting of a roadway easement for the City owned parcel known as Assessor Parcel Number 316-190-035.

AGENDA
February 25, 2014

3. Direct the City Clerk to forward the Resolution to the Mayor for execution and the roadway Easement Deed to the Public Works Director/City Engineer for execution and to forward the document to the County Recorder's Office for recordation for Assessor Parcel Number 316-190-035.

A.7 APPROVE AND ADOPT RESOLUTION NO. 2014-14 ACCEPTING DEDICATION OF PROPERTY FOR PUBLIC RIGHT-OF-WAY AND ACCEPTING THE IMPROVED PORTIONS OF KENTLAND LANE SOUTH OF EUCALYPTUS AVENUE, WILSON PLACE, AND KENNY DRIVE INTO THE CITY MAINTAINED ROAD SYSTEM, PROJECT NO. 801 0011 70 77 (Report of: Public Works Department)

Recommendations

1. Approve and adopt Resolution No. 2014-14 accepting dedication of property for public right-of-way and accepting the improved portions of Kentland Lane south of Eucalyptus Avenue, Wilson Place, and Kenny Drive into the City maintained road system.
2. Direct the City Engineer to certify the acceptance of said dedication and cause said certification to be recorded at the office of the Recorder of the County of Riverside together with said Resolution.

A.8 RESOLUTION OF THE CITY OF MORENO VALLEY SERVING AS THE SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY APPROVING THE RECOGNIZED OBLIGATION PAYMENT SCHEDULE INCLUDING ADMINISTRATIVE BUDGET FOR THE PERIOD OF JULY 1, 2014 THROUGH DECEMBER 31, 2014 (ROPS 14-15A) (Report of: Community & Economic Development Department)

Recommendations

1. Adopt Resolution No. SA 2014-01. A Resolution of the City Council of the City of Moreno Valley, California, serving as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley approving the Recognized Obligation Payment Schedule (ROPS 14-15A), including administrative budget, for the period of July 1, 2014 through December 31, 2014 and authorizing the Executive Director or his designee to make modifications thereto.
2. Authorize the Executive Director or his designee to make modifications to the Schedule.
3. Authorize the transmittal of the ROPS 14-15A to the Oversight Board for review and approval.

- A.9 APPROVE THE FIRST AMENDMENT TO THE AGREEMENT FOR PROFESSIONAL CONSULTANT SERVICES WITH PARSONS FOR THE SR-60/NASON STREET OVERCROSSING IMPROVEMENTS – PROJECT NO. 802 0003 70 77 (Report of: Public Works Department)

Recommendations

1. Approve the “First Amendment to Agreement for Professional Consultant Services” with Parsons to provide additional construction support services during construction of the SR-60/Nason Street Overcrossing Improvements for \$50,000.
2. Authorize the City Manager to execute the First Amendment to Agreement for Professional Consultant Services with Parsons.
3. Authorize a Change Order to increase the Purchase Order with Parsons for the amount of \$50,000 when the First Amendment has been signed by all parties.

- A.10 RECEIPT OF QUARTERLY INVESTMENT REPORT – QUARTER ENDED DECEMBER 31, 2013 (Report of: Financial & Management Services Department)

Recommendation:

1. Receive and file the Quarterly Investment Report, in compliance with the City’s Investment Policy.

- A.11 APPROVE RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DETERMINING THAT THE SPECIAL TAX OBLIGATION FOR PROPERTY IN COMMUNITY FACILITIES DISTRICT NO. 3 (AUTO MALL REFINANCING) OF THE CITY OF MORENO VALLEY FOR THE PAYMENT OF SPECIAL TAXES HAS BEEN SATISFIED, AND ORDERING THE RECORDING OF A NOTICE OF CANCELLATION OF THE SPECIAL TAX LIEN (Report of: Financial & Management Services Department)

Recommendation:

1. Approve Resolution No. 2014-15. A Resolution of the City Council of the City of Moreno Valley, California, Determining that the special tax obligation for property in Community Facilities District No. 3 (Auto Mall Refinancing) of the City of Moreno Valley for the payment of special taxes has been satisfied, and ordering the recording of a Notice of Cancellation of the special tax lien.

- A.12 ACCEPTANCE OF THE CITY OF MORENO VALLEY STRATEGIC PLAN STRATEGIES, PHASE 3 (SOUTHERN CALIFORNIA EDISON ENERGY EFFICIENCY STRATEGIC SOLICITATION)

(Report of: Community & Economic Development Department)

Recommendations

1. Adopt Resolution No. 2014-16. A Resolution of the City Council of the City of Moreno Valley, California, accepting the City of Moreno Valley Strategic Plan Strategies, Phase 3 (Southern California Edison Energy Efficiency Strategic Solicitation) and authorizing the Chief Financial Officer/City Treasurer to create the necessary budgetary appropriations for the Phase 3 Solicitation.

A.13 ACCEPTANCE OF THE RIVERSIDE COUNTY TRANSPORTATION COMMISSION'S CONGESTION MANAGEMENT AND AIR QUALITY GRANT, AUTHORIZE EXECUTION OF A MEMORANDUM OF UNDERSTANDING, AUTHORIZE AN APPROPRIATION OF FUNDS FOR THE AQUEDUCT TRAIL PROJECT FROM THE MORENO VALLEY MALL AREA TO LAKE PERRIS STATE RECREATION AREA, AND AMEND THE FISCAL YEAR 2013/2014 ADOPTED CAPITAL IMPROVEMENT PLAN TO INCLUDE THE SUBJECT PROJECT AS A FUNDED STREET PROJECT, PROJECT NO. 801 0055 70 77 (Report of: Public Works Department)

Recommendations

1. Accept the Congestion Management and Air Quality (CMAQ) grant award from the Riverside County Transportation Commission (RCTC) of up to \$340,000 for the Project Approval and Environmental Document (PA&ED) phase of the Aqueduct Trail Project from the Moreno Valley Mall Area to Lake Perris State Recreation Area (Aqueduct Trail Project).
2. Authorize the City Manager to execute a Memorandum of Understanding (MOU) with RCTC when it is received for the Aqueduct Trail Project, subject to approval of the City Attorney.
3. Authorize the Chief Financial Officer to appropriate \$340,000 as revenue and expense in the Capital Projects Reimbursements fund (Fund 3008), and the \$85,000 local match requirement as expense in the Measure A Fund (Fund 2001) for the PA&ED phase of the Aqueduct Trail Project.
4. Amend the Fiscal Year 2013/2014 Adopted Capital Improvement Plan (CIP) to include the Aqueduct Trail Project as a funded Street project, Project No. 801 0055 70 77.

A.14 APPROVE THE FIRST AMENDMENT TO THE AGREEMENT WITH PSOMAS FOR THE SR-60/NASON STREET OVERCROSSING IMPROVEMENTS – PROJECT NO. 802 0003 70 77 (Report of: Public Works Department)

AGENDA
February 25, 2014

Recommendations

1. Approve the “First Amendment to Agreement for Professional Consultant Services” with PSOMAS to provide professional survey services of the SR-60/Nason Street Overcrossing Improvements for \$27,913.
2. Authorize the City Manager to execute the First Amendment to Agreement for Professional Consultant Services with PSOMAS.
3. Authorize a Change Order to increase the Purchase Order with PSOMAS for the amount of \$27,913 when the First Amendment has been signed by all parties.

A.15 AUTHORIZE A CHANGE ORDER TO INCREASE THE EXISTING PURCHASE ORDER WITH BEDON CONSTRUCTION, INC. FOR THE MORENO MASTER DRAINAGE PLAN LINE “F”, STAGE 2 CHANNEL IMPROVEMENTS – PROJECT NO. 804 0005 70 77 (Report of: Public Works Department)

Recommendations

1. Authorize a Change Order to increase the existing Purchase Order with Bedon Construction, Inc. by an additional \$100,000 to offset a portion of the construction costs pertaining to additional Eastern Municipal Water District requirements.
2. Authorize the Public Works Director/City Engineer to execute the Change Order to the Purchase Order for Bedon Construction, Inc.
3. Authorize the Public Works Director/City Engineer to execute any subsequent related minor change orders to the contract with Bedon Construction, Inc. up to the revised Purchase Order amount, subject to the approval of the City Attorney.

A.16 APPROVE THE SECOND AMENDMENT TO THE AGREEMENT WITH FALCON ENGINEERING SERVICES, INC. FOR THE SR-60/NASON STREET OVERCROSSING IMPROVEMENTS – PROJECT NO. 802 0003 70 77 (Report of: Public Works Department)

Recommendations

1. Approve the “Second Amendment to Agreement for Professional Consultant Services” with Falcon Engineering Services, Inc. (Falcon) to provide additional construction management and inspection services during construction of the SR-60/Nason Street Overcrossing Improvements for \$512,522.81.

2. Authorize the City Manager to execute the Second Amendment to Agreement for Professional Consultant Services with Falcon.
3. Authorize a Change Order to increase the Purchase Order with Falcon for the amount of \$512,522.81 when the Second Amendment has been signed by all parties.

A.17 AUTHORIZATION TO APPLY AND ACCEPT A \$7,500 GRANT FROM THE DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL, "MINOR DECOY/SHOULDER TAP PROGRAM" (Report of: Police Department)

Recommendations

1. Authorize the Riverside County Sheriff's Department to apply and accept on the City's behalf, the FY2014 Alcohol Beverage Control (ABC) grant, in the amount of \$7,500.00, to conduct Minor Decoy/Shoulder Tap Programs, for the period beginning January 1, 2014 and ending June 30, 2014.
2. Authorize that all Police Department equipment costs and City personnel overtime costs associated with this grant, will be directly billed to the Riverside County Sheriff's Department Grant Unit who will manage this grant. All reimbursement funds will be sent directly to the Sheriff's Department and will not affect the City General Fund revenue or expense budgets. Therefore, there is no impact to the City General Fund and the Police Department's FY2013/2014 budget will not be affected.

A.18 AUTHORIZATION TO AWARD AGREEMENT FOR PROFESSIONAL CONSULTANT DESIGN SERVICES TO AKM CONSULTING ENGINEERS FOR THE SAN TIMOTEO FOOTHILL NEIGHBORHOOD FLOOD PROTECTION - MORENO MASTER DRAINAGE PLAN STORM DRAIN LINES K-1 AND K-4 – PROJECT NO. 804 0007 70 77 (Report of: Public Works Department)

Recommendations

1. Approve the Agreement for Professional Consultant Services with AKM Consulting Engineers, 553 Walk, Irvine, CA 92618, to provide design services for the San Timoteo Foothill Neighborhood Flood Protection - Moreno Master Drainage Plan Storm Drain Lines K-1 and K-4 project.
2. Authorize the City Manager to execute the Agreement for Professional Consultant Services with AKM Consulting Engineers.
3. Authorize an issuance of a Purchase Order with AKM Consulting Engineers in the amount of \$349,788 when the Agreement has been

signed by all parties.

A.19 NOTICE OF COMPLETION AND ACCEPTANCE OF PEDESTRIAN RELATED IMPROVEMENTS FOR CITYWIDE PEDESTRIAN ENHANCEMENTS – PROJECT NO. 801 0040 70 77 (Report of: Public Works Department)

Recommendations

1. Authorize the Public Works Director/City Engineer to accept the work as completed for construction of the Citywide Pedestrian Enhancements constructed by PTM General Engineering Services, Inc., 5942 Acorn Street, Riverside, CA 92504.
2. Direct the City Clerk to record the Notice of Completion within ten (10) calendar days after the Public Works Director/City Engineer accepts the improvements as complete at the office of the County Recorder of Riverside County as required by Section 3093 of the California Civil Code.
3. Authorize the release of the retention to PTM General Engineering Services, Inc. 35 calendar days after the date of recordation of the Notice of Completion if no claims are filed against the project.
4. Authorize the Public Works Director/City Engineer to accept the improvements into the City's maintained system upon acceptance of the improvements as complete.

A.20 PA07-0080, PM 35672 – REQUEST TO EXTEND THE FULL ROAD CLOSURE OF INDIAN STREET FROM IRIS AVENUE TO KRAMERIA AVENUE AND IRIS AVENUE BETWEEN INDIAN STREET AND CONCORD WAY FOR THE CONSTRUCTION OF STREET IMPROVEMENTS UNTIL APRIL 7, 2014 (Report of: Public Works Department)

Recommendations

1. Authorize the extension of a full road closure of Indian Street from Iris Avenue to Krameria Avenue and Iris Avenue between Indian Avenue and Concord Way for the construction of street improvements until April 7, 2014.
2. Authorize the City Engineer to allow for an additional 30-day extension in addition to the extension being requested to the proposed road closure window if the project is delayed due to unforeseen construction issues.

B. CONSENT CALENDAR-COMMUNITY SERVICES DISTRICT

AGENDA
February 25, 2014

B.1 ORDINANCES - READING BY TITLE ONLY
Recommendation: Waive reading of all Ordinances.

B.2 MINUTES - REGULAR MEETING OF FEBRUARY 11, 2014 (Report of:
City Clerk's Department)

Recommendation:
1. Approve as submitted.

C. CONSENT CALENDAR - HOUSING AUTHORITY

C.1 ORDINANCES - READING BY TITLE ONLY
Recommendation: Waive reading of all Ordinances.

C.2 MINUTES - REGULAR MEETING OF FEBRUARY 11, 2014 (Report of:
City Clerk's Department)

Recommendation:
1. Approve as submitted.

D. CONSENT CALENDAR - BOARD OF LIBRARY TRUSTEES

D.1 ORDINANCES - READING BY TITLE ONLY
Recommendation: Waive reading of all Ordinances.

D.2 MINUTES - REGULAR MEETING OF FEBRUARY 11, 2014 (Report of:
City Clerk's Department)

Recommendation:
1. Approve as submitted.

E. PUBLIC HEARINGS

Questions or comments from the public on a Public Hearing matter are limited to five minutes per individual and must pertain to the subject under consideration. Those wishing to speak should complete and submit a GOLDENROD speaker slip to the Bailiff.

E.1 PUBLIC HEARING REGARDING THE MAIL BALLOT PROCEEDINGS FOR ASSESSOR'S PARCEL NUMBERS 482-190-019; AND 316-210-071, -073, -075, AND -079 BALLOTING FOR NPDES (Report of: Financial & Management Services Department)

Recommendations That the City Council:
1. Conduct the Public Hearing and accept public testimony regarding the

AGENDA
February 25, 2014

mail ballot proceedings for Assessor's Parcel Numbers (APNs) 482-190-019; and 316-210-071, -073, -075, and -079 for approval of the National Pollutant Discharge Elimination System (NPDES) maximum annual rate.

2. Direct the City Clerk to tabulate the NPDES ballots for APNs 482-190-019; and 316-210-071, -073, -075, and -079.
3. Verify and accept the results of the mail ballot proceedings as identified on the Official Tally Sheet.
4. Receive and file with the City Clerk's office the accepted Official Tally Sheet.
5. If approved, authorize and impose the NPDES maximum commercial/industrial regulatory rate to APNs 482-190-019; and 316-210-071, -073, -075, and -079.

E.2 PUBLIC HEARING REGARDING THE MAIL BALLOT PROCEEDINGS FOR ASSESSOR'S PARCEL NUMBERS 482-190-019; AND 316-210-071, -073, -075, AND -079. BALLOTING FOR THE CSD ZONE M ANNUAL PARCEL CHARGE (Report of: Financial & Management Services Department)

Recommendations That the CSD:

1. Conduct the Public Hearing and accept public testimony regarding the mail ballot proceedings for Assessor's Parcel Numbers (APNs) 482-190-019; and 316-210-071, -073, -075, and -079 for inclusion into and approval of the annual charges for the CSD Zone M (Commercial, Industrial, and Multifamily Improved Median Maintenance) program.
2. Direct the Secretary of the CSD Board (City Clerk) to tabulate the CSD Zone M ballots for APNs 482-190-019; and 316-210-071, -073, -075, and -079.
3. Verify and accept the results of the mail ballot proceedings as identified on the Official Tally Sheet.
4. Receive and file with the City Clerk's office the accepted Official Tally Sheet.
5. If approved, authorize and impose the CSD Zone M (Commercial, Industrial, and Multifamily Improved Median Maintenance) annual parcel charge to APNs 482-190-019; and 316-210-071, -073, -075, and -079.

- E.3 APPEAL OF THE PLANNING COMMISSION'S JANUARY 16, 2014 APPROVAL OF AMENDED PLOT PLAN P13-111 TO CONSTRUCT AN 800,430 SQUARE FOOT REFRIGERATED WAREHOUSE DISTRIBUTION FACILITY IN PLACE OF THE 937,260 SQUARE FOOT WAREHOUSE FACILITY ORIGINALLY APPROVED FOR THE WEST RIDGE COMMERCE CENTER PROJECT (PA08-0097). THE PROJECT IS LOCATED ON THE SOUTH SIDE OF STATE ROUTE 60, ON THE NORTH SIDE OF EUCALYPTUS AVENUE AND APPROXIMATELY 650 FEET WEST OF REDLANDS BOULEVARD. THE APPLICANT IS ALDI FOODS. THE APPELLANT IS LEIBOLD, MCCLENDON & MANN ON BEHALF OF CITIZENS OF THE CITY OF MORENO VALLEY (Report of: Community & Economic Development Department)

Recommendations That the City Council:

1. Conduct a public hearing for Amended Plot Plan P13-111 and subsequent to the public hearing:
2. APPROVE Resolution No. 2014-17. A Resolution of the City Council of the City of Moreno Valley, California, recognizing the preparation of an addendum to the Certified West Ridge Commerce Center Environmental Impact Report (Sch #2009101008) and approving Amended Plot Plan Application No. P13-111 for an 800,430 square foot Refrigerated Warehouse Distribution Facility on 55 acres within Assessor's Parcel Numbers 488-330-003 to -006 and -026.

F. ITEMS REMOVED FROM CONSENT CALENDARS FOR DISCUSSION OR SEPARATE ACTION

G. REPORTS

- G.1 TRAFFIC SAFETY COMMISSION ANNUAL REPORT (Informational only, not for Council Action)
- G.2 MONTHLY REPORT: MORENO VALLEY ANIMAL SHELTER ADOPTION RATE
(Report of: Administrative Services Department)

Recommendations That the City Council:

1. Receive and file the Monthly Report: Moreno Valley Animal Adoption Rate for the period of January 1 to January 31, 2014.
- G.3 DIRECTION TO STAFF REGARDING PROCESS TO CALL FOR AN ELECTION TO CREATE THE OFFICE OF A DIRECTLY ELECTED MAYOR AND APPROVAL OF RELATED RESOLUTION (Report of: City Attorney Department)

Recommendations That the City Council:

1. Determine whether to call for an election to create the office of a directly elected Mayor for the City of Moreno Valley, and if so
2. Determine whether the City should be divided into four (4), six (6) or eight (8) new City Council Districts to submit to the voters along with the question of creating the office of directly elected Mayor.
3. Authorize the proposed redistricting of the City into four (4), six (6) or eight (8) City Council Districts; authorize the City to execute a contract for redistricting consultant services; and authorize the Chief Financial Officer to make appropriation changes as may be required.
4. Direct staff to prepare all necessary documents and ordinances for the City Council to call an election on the matter of a directly elected Mayor and four (4), six (6) or eight (8) City Council Districts for the November 4, 2014 municipal general election.
5. Adopt Resolution No. 2014-18. A Resolution of the City Council of the City of Moreno Valley, California, relating to the Direct Election of the Mayor and Reapportionment of Councilmanic Districts; and authorizing the drafting of Redistricting Plans.

**G.4 APPOINTMENTS TO THE JULY 4TH ADVISORY BOARD
(Report of: City Clerk Department)**

Recommendations That the City Council:

1. Appoint those applicants who received majority vote by the City Council
2. If vacancies are not filled by a majority vote of the City Council, authorize the City Clerk to re-advertise the positions as vacant and carry over the current applications for reconsideration of appointment at a future date.

G.5 AUTHORIZATION TO BEGIN USING THE CALIFORNIA OFFICE OF TRAFFIC SAFETY (OTS) - SOBRIETY CHECKPOINT GRANT FUNDS – GRANT # SC14272 (Report of: Police Department)

Recommendations That the City Council:

1. Authorize the use of the OTS Sobriety Checkpoint Grant funds in the amount of \$156,410, for which City Council authorized the Riverside County Sheriff's Department to apply on the City's behalf. The grant period began on October 1, 2013 and ends September 30, 2014.

2. Authorize all equipment costs and City personnel overtime to be directly billed to the Sheriff's Department Grant Unit which is managing this grant. The grant funds from OTS are currently available to the Sheriff's Department where they are maintained and reconciled. No appropriations or expenditures will be encumbered by the City, and the Police Department is not asking for a change to revenue or expense budgets.

G.6 AUTHORIZATION TO APPLY AND ACCEPT THE FY2014/2015 CALIFORNIA OFFICE OF TRAFFIC SAFETY (OTS) - SELECTIVE TRAFFIC ENFORCEMENT PROGRAM (STEP) GRANT - APPLICATION # 21741 (Report of: Police Department)

Recommendations That the City Council:

1. Authorize the Riverside County Sheriff's Department to apply for and accept on the City's behalf (if awarded), the FY2014/2015 California Office of Traffic Safety (OTS) Selective Traffic Enforcement Program (STEP) grant in the amount of \$328,607.69 for the period beginning October 1, 2014, and ending September 30, 2015.
2. Authorize all equipment costs and City personnel overtime to be directly billed to the Sheriff's Department Grant Unit which is managing this grant. All reimbursement funds will be sent directly to the Sheriff's Department and will not affect the City General Fund revenue or expense budgets. Therefore, there is no impact to the City General Fund and the Police Department's FY2014/2015 budget will not be affected.

G.7 CITY MANAGER'S REPORT (Informational Oral Presentation - not for Council action)

G.8 CITY ATTORNEY'S REPORT (Informational Oral Presentation - not for Council action)

H. LEGISLATIVE ACTIONS

H.1 ORDINANCES - 1ST READING AND INTRODUCTION - NONE

- *H.1.1 AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING SECTIONS 2.25.010 AND 2.25.020 OF TITLE 2 OF THE CITY OF MORENO VALLEY MUNICIPAL CODE RELATING TO THE COMPOSITION OF THE UTILITIES COMMISSION (Report of: Public Works Department)

Recommendations That the City Council:

1. Introduce Ordinance No. 873. An Ordinance of the City Council of the City of Moreno Valley, California amending sections 2.25.010 and 2.25.020 of Title 2 of the City of Moreno Valley Municipal Code relating to the composition of the Utilities Commission.

H.2 ORDINANCES - 2ND READING AND ADOPTION - NONE

H.3 ORDINANCES - URGENCY ORDINANCES - NONE

H.4 RESOLUTIONS - NONE

**CLOSING COMMENTS AND/OR REPORTS OF THE CITY COUNCIL,
COMMUNITY SERVICES DISTRICT, CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OR HOUSING AUTHORITY**

Materials related to an item on this Agenda submitted to the City Council/Community Services District/City as Successor Agency for the Community Redevelopment Agency/Housing Authority or Board of Library Trustees after distribution of the agenda packet are available for public inspection in the City Clerk's office at 14177 Frederick Street during normal business hours.

*Denotes Revision

CLOSED SESSION

A Closed Session of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency and Housing Authority will be held in City Manager's Conference Room, Second Floor, City Hall. The City Council will meet in Closed Session to confer with its legal counsel regarding the following matter(s) and any additional matter(s) publicly and orally announced by the City Attorney in the Council Chamber at the time of convening the Closed Session.

- **PUBLIC COMMENTS ON MATTERS ON THE CLOSED SESSION AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL**

There is a three-minute time limit per person. Please complete and submit a BLUE speaker slip to the City Clerk. All remarks and questions shall be addressed to the presiding officer or to the City Council and not to any individual Council member, staff member or other person.

The Closed Session will be held pursuant to Government Code:

1 **SIGNIFICANT EXPOSURE TO LITIGATION PURSUANT TO PARAGRAPH (2) OR (3) OF SUBDIVISION (D) OF SECTION 54956.9**

Number of Cases: 5

2 **SECTION 54956.9(d)(4) - CONFERENCE WITH LEGAL COUNSEL - INITIATION OF LITIGATION**

Number of Cases: 5

REPORT OF ACTION FROM CLOSED SESSION, IF ANY, BY CITY ATTORNEY

ADJOURNMENT

CERTIFICATION

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, certify that the City Council Agenda was posted in the following places pursuant to City of Moreno Valley Resolution No. 2007-40:

City Hall, City of Moreno Valley
14177 Frederick Street

AGENDA
February 25, 2014

Moreno Valley Library
25480 Alessandro Boulevard

Moreno Valley Senior/Community Center
25075 Fir Avenue

Jane Halstead, CMC,
City Clerk

Date Posted: February 20, 2014

AGENDA
February 25, 2014

This page intentionally left blank.

MINUTES
CITY COUNCIL REGULAR MEETING OF THE CITY OF MORENO VALLEY
February 11, 2014

CALL TO ORDER

SPECIAL PRESENTATIONS

Mayor Tom Owings honoring Black History Month brought attention to the black American heroes in the City of Moreno Valley and their contributions.

- 1) Southern California Chapter of the American Public Works Association (APWA) 2013 Project of the Year Award for the Cactus Avenue / Nason Street Improvement Project
- 2) Inland Empire Branch of the American Public Works Association (APWA) 2013 Project of the Year Award for the Morrison Park Fire Station #99
- 3) Introduction of 2014 Miss Moreno Valley Scholarship Pageant Delegates

**MINUTES
JOINT MEETING OF THE
CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF
THE CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
BOARD OF LIBRARY TRUSTEES**

THE CITY COUNCIL RECEIVES A SEPARATE STIPEND FOR CSD MEETINGS

**REGULAR MEETING – 6:00 PM
February 11, 2014**

CALL TO ORDER

The Joint Meeting of the City Council of the City of Moreno Valley, Moreno Valley Community Services District, City as Successor Agency for the Community Redevelopment Agency of the City of Moreno Valley, Moreno Valley Housing Authority and the Board of Library Trustees was called to order at 6:09 p.m. by Mayor Tom Owings in the Council Chamber located at 14177 Frederick Street.

PLEDGE OF ALLEGIANCE

The pledge was led by Mike McCormick.

INVOCATION

Pastor Paul Cunningham - Renewal Christian Fellowship

ROLL CALL

Council:

Tom Owings	Mayor
Victoria Baca	Mayor Pro Tem
Yxstian Gutierrez	Council Member
Jesse L. Molina	Council Member

Absent:

Richard A. Stewart	Council Member
--------------------	----------------

Staff:

Jane Halstead	City Clerk
Kathy Gross	Executive Assistant
Richard Teichert	Chief Financial Officer/City Treasurer

MINUTES
February 11, 2014

Suzanne Bryant	City Attorney
Michelle Dawson	City Manager
Tom DeSantis	Assistant City Manager
Ahmad Ansari	Public Works Director
Chris Paxton	Administrative Services Director
Bill Tyler	Lieutenant
Abdul Ahmad	Fire Chief
John Terell	Community and Economic Development Director

PUBLIC COMMENTS ON ANY SUBJECT NOT ON THE AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL

Susan Owings - Recall; March JPA; police

Scott Heveran - Public discourse; 4th of July

Deanna Reeder - Cost of money spent by Recall proponents and supporters

Marcia Amino - Press Enterprise articles; JPA lawsuit; jobs

Louise Palomarez - Public discourse; 3-0 club

Christopher Baca - Misinformation in community; comments and tactics of recall proponents

Craig Givens - Concerned Citizens representative; 10,000 info packets delivered to District 3 residents

Curtis Gardner - Concerned Citizens group; watchdog for governance

Sherman Jones - Meeting with Pastor Henry and concerns regarding JPA; logistics on east-end

Tom Jerele, Sr. - Thanked Mayor for acknowledgement of Martin Luther King; mail theft; proponent of Directly Elected Mayor

JOINT CONSENT CALENDARS (SECTIONS A-D) OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY AS SUCCESSOR AGENCY OF THE COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY, MORENO VALLEY HOUSING AUTHORITY AND THE BOARD OF LIBRARY TRUSTEES

MINUTES
February 11, 2014

Mayor Tom Owings opened the agenda items for the Consent Calendars for public comments; consent received from Debra Craig (A.13), Deanna Reeder (A.13), Craig Givens (A.13).

A. CONSENT CALENDAR-CITY COUNCIL

A.1 ORDINANCES - READING BY TITLE ONLY

Recommendation: Waive reading of all Ordinances.

A.2 MINUTES - REGULAR MEETING OF JANUARY 28, 2014 (Report of: City Clerk's Department)

Recommendation:

Approve as submitted.

A.3 CITY COUNCIL REPORTS ON REIMBURSABLE ACTIVITIES (Report of: City Clerk's Department)

Recommendation:

Receive and file the Reports on Reimbursable Activities for the period of January 22 – February 4, 2014.

A.4 APPROVAL OF PAYMENT REGISTER FOR DECEMBER, 2013 (Report of: Financial & Management Services Department)

Recommendation:

Adopt Resolution No. 2014-04. A Resolution of the City Council of the City of Moreno Valley, California, approving the Payment Register for the month of December, 2013 in the amount of \$11,135,500.49.

A.5 APPROVE THE AGREEMENT FOR PROFESSIONAL CONSULTANT SERVICES WITH PSOMAS FOR DESIGN AND CONSTRUCTION SUPPORT FOR THE ALESSANDRO BOULEVARD AND ELSWORTH STREET INTERSECTION IMPROVEMENT, PROJECT NO. 801 0047 70 77

(Report of: Public Works Department)

Recommendations

1. Approve the Agreement for Professional Consultant Services with PSOMAS, for the Alessandro Boulevard and Elsworth Street Intersection Improvement.
2. Authorize the City Manager to execute the Agreement for Professional Consultant Services with PSOMAS.

MINUTES
February 11, 2014

3. Authorize the issuance of a Purchase Order to PSOMAS for the amount of \$126,550 when the contract has been signed by all parties.
4. Authorize the Public Works Director/City Engineer to execute any subsequent related amendments to the Agreement for Professional Consultant Services with PSOMAS, not to exceed the Purchase Order amount, subject to the approval of the City Attorney.

A.6 ACCEPTANCE OF CALIFORNIA DEPARTMENT OF RESOURCES, RECOVERY AND RECYCLING USED OIL PAYMENT PROGRAM AWARD

(Report of: Public Works Department)

Recommendation:

Approve the acceptance of the Used Oil Payment Program grant funds awarded by California Department of Resources, Recovery and Recycling (CalRecycle), in the amount of \$56,091.00.

A.7 AMENDMENT TO SPECIAL DISTRICT FINANCING POLICY (FISCAL POLICY #3.7)

(Report of: Financial & Management Services Department)

Recommendation:

Adopt Resolution No. 2014-05. A Resolution of the City Council of Moreno Valley, California, Adopting an Amended Special District Financing Policy for the Public Financing of Public Facilities or Service of Public Facilities through the Establishment of Assessment Districts, Landscape and Lighting Maintenance Districts or Community Facilities Districts.

A.8 APPROVE AMENDMENT TO EQUIPMENT LEASE AND PURCHASE OPTION AGREEMENT WITH MUNI-FED ENERGY, INC. FOR THE LITE OWL ENERGY SAVINGS PROJECT

(Report of: Public Works Department)

Recommendations

1. Approve the Amendment to the Equipment Lease and Purchase Option Agreement with Muni-Fed Energy Inc., for the Lite Owl Energy Savings Project.
2. Authorize the City Manager to execute the Amendment on behalf of the city.

- A.9 AUTHORIZATION TO AWARD BID TO ONESOURCE DISTRIBUTORS IN THE AMOUNT OF \$1,185,300.00 FOR THE PURCHASE OF EQUIPMENT FOR 33 KV SUBSTATION
(Report of: Public Works Department)

Recommendations

1. Award the bid to OneSource Distributors, the lowest responsible bidder, for the purchase of equipment for the 33 kV substation.
2. Authorize the issuance of a Purchase Order to OneSource Distributors for \$1,185,300.00.
3. Authorize the re-appropriation of \$331,541 from the Centerpointe-Crosstown Feeder from JFK and Perris to Heacock and Cactus project to the Moval South 33 kV Substation project.

- A.10 APPROVE A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, TO AMEND THE ELECTRIC RATES FOR MORENO VALLEY UTILITY
(Report of: Public Works Department)

Recommendation:

Adopt Resolution No. 2014-06. A Resolution of the City Council of the City of Moreno Valley, California, to Amend the Electric Rates for Moreno Valley Utility.

- A.11 CITY LEGISLATIVE PLATFORM
(Report of: City Manager Department)

Recommendations

1. Approve recommended revisions to City Administrative Policy #1.10.
2. Approve the proposed Legislative Platform.

- A.12 DELEGATE AUTHORITY TO THE CITY ATTORNEY TO ISSUE ADMINISTRATIVE SUBPOENAS RELATED TO UTILITY USERS TAX AUDIT DATA
(Report of: Financial & Management Services Department)

Recommendation:

Adopt Resolution No. 2014-07. A Resolution of the City Council of the City of Moreno Valley, California, Authorizing the City Attorney to Issue Administrative Subpoenas Related to the Utility Users Tax Audit Data Requests.

MINUTES
February 11, 2014

A.13 CALL SPECIAL MUNICIPAL ELECTION FOR JUNE 3, 2014 AND ADOPT RESOLUTIONS COMMENCING THE SPECIAL MUNICIPAL ELECTION PROCESS.

(Report of: City Clerk Department)

Recommendations

1. Adopt the following resolutions to commence the Special Municipal Election process: Adopt Resolution No. 2014-08. A Resolution Calling and Giving Notice of the Holding of a Special Municipal Election on Tuesday, June 3, 2014 for the Submission of the Question of the Recall of a Certain Officer and the Election of a Candidate to Fill the Vacancy if the Recall Prevails.
2. Adopt Resolution No. 2014-09, A Resolution of the City Council of the City of Moreno Valley, California, Requesting the Board of Supervisors of the County of Riverside to Consolidate a Special Municipal Election with the Statewide Primary Election to be Held on Tuesday, June 3, 2014, Pursuant to Section 10403 of the California Elections Code.
3. Adopt Resolution No. 2014-10. A Resolution of the City Council of the City of Moreno Valley, California, Adopting Regulations for Candidates for Elective Office Pertaining to Candidates' Statements Submitted to the Voters for the Election to Be Held on Tuesday, June 3, 2014.

A.14 APPROVE THE FIRST AMENDMENT TO THE AGREEMENT WITH MEYERS NAVE FOR ON-CALL LEGAL SERVICES AND APPROVE THE FIRST AMENDMENT TO ENGAGEMENT FOR LEGAL SERVICES

(Report of: City Attorney Department)

Recommendations

1. Approve the First Amendment to Agreement for On-Call Legal Services with Meyers Nave to provide legal services on an as-needed basis.
2. Authorize the City Attorney to execute the First Amendment to Agreement for On-Call Legal Service with Meyers Nave.
3. Approve the First Amendment to Engagement of Legal Services (Subpoenas).
4. Authorize the City Attorney to execute the First Amendment to Engagement of Legal Services (Subpoenas).

MINUTES
February 11, 2014

B. CONSENT CALENDAR-COMMUNITY SERVICES DISTRICT

B.1 ORDINANCES - READING BY TITLE ONLY

Recommendation: Waive reading of all Ordinances.

B.2 MINUTES - REGULAR MEETING OF JANUARY 28, 2014 (Report of: City Clerk's Department)

Recommendation:

Approve as submitted.

C. CONSENT CALENDAR - HOUSING AUTHORITY

C.1 ORDINANCES - READING BY TITLE ONLY

Recommendation: Waive reading of all Ordinances.

C.2 MINUTES - REGULAR MEETING OF (Report of: City Clerk's Department)

Recommendation:

Approve as submitted.

D. CONSENT CALENDAR - BOARD OF LIBRARY TRUSTEES

D.1 ORDINANCES - READING BY TITLE ONLY

Recommendation: Waive reading of all Ordinances.

D.2 MINUTES - REGULAR MEETING OF JANUARY 28, 2014 (Report of: City Clerk's Department)

Recommendation:

Approve as submitted.

Motion to Approve Joint Consent Calendar Items A.1 through D.2 by m/Mayor Pro Tem Victoria Baca, s/Council Member Jesse L. Molina

Approved by a vote of 4-0-1, Council Member Richard A. Stewart absent.

E. PUBLIC HEARINGS

E.1 A PUBLIC HEARING REGARDING GENERAL PLAN HOUSING ELEMENT UPDATE (PA13-0027), APPLICANT IS THE CITY OF MORENO VALLEY.

(Report of: Community & Economic Development Department)

MINUTES
February 11, 2014

Recommendations That the City Council:

1. RECOGNIZE that this item is exempt from the provisions of the California Environmental Quality Act (CEQA), as provided for in CEQA Guidelines, Section 15061(b)(3), which states the general rule is that CEQA applies only to projects which have the potential for causing a significant effect on the environment.

2. APPROVE Resolution No. 2014-11. A Resolution of the City Council of the City of Moreno Valley, California, approving PA13-0027: an Amendment of the City of Moreno Valley General Plan Housing Element (2014-2021).

Mayor Tom Owings opened the public testimony portion of the Public Hearing. Public testimony was received from Craig Givens (Opposed) and Tom Jerele, Sr.

RECOGNIZE that this item is exempt from the provisions of the California Environmental Quality Act (CEQA), as provided for in CEQA Guidelines, Section 15061(b)(3), which states the general rule is that CEQA applies only to projects which have the potential for causing a significant effect on the environment.

APPROVE Resolution No. 2014-11. A Resolution of the City Council of the City of Moreno Valley, California, approving PA13-0027: an Amendment of the City of Moreno Valley General Plan Housing Element (2014-2021) by m/Mayor Pro Tem Victoria Baca, s/Council Member Jesse L. Molina

Approved by a vote of 4-0-1, Council Member Richard A. Stewart absent.

F. ITEMS REMOVED FROM CONSENT CALENDARS FOR DISCUSSION OR SEPARATE ACTION

None.

G. REPORTS

G.1 CITY COUNCIL REPORTS ON REGIONAL ACTIVITIES (Informational Oral Presentation - not for Council action)

a) Report by Council Member Jesse Molina on Riverside Transit Agency (RTA)

b) Report by Council Member Jesse Molina on Riverside County

MINUTES
February 11, 2014

Transportation Commission (RCTC)

Council Member Jesse L. Molina

- Reported he attended a RCTC workshop session, 3 million towards the widening of Perris Boulevard from Ironwood to Manzanita
- Report from Cliff Madison, Economist that construction was up by 6%; Gross National Product up by 20%; growth rate up by 3.6% gain; unemployment down to 8%; California out performing other states
- RCTC approved a toll and traffic management item; 8 mile stretch on the 91 freeway; Vehicle License Fee increase of 1% over 4 years which exempts commercial vehicles
- Attended RTA meeting on January 8, 2014; MOU for Town Circle at Moreno Valley Mall; 3 bus stops in front of Hometown Buffet

G.2 APPROVE AGREEMENT BETWEEN VAL VERDE SCHOOL DISTRICT AND THE CITY OF MORENO VALLEY FOR THE STUDENT RECOGNITION BANNER PROGRAM
(Report of: Public Works Department)

Recommendations That the City Council:

1. Approve the Agreement for the Student Recognition Banner Program.
2. Authorize the City Manager to execute the Agreement for the Student Recognition Banner Program and authorize the Public Works Director/City Engineer to approve any changes subject to the approval of the City Attorney.

Mayor Tom Owings opened the agenda item for public comments; there being none, public comments were closed.

Approve the Agreement for the Student Recognition Banner Program.

Authorize the City Manager to execute the Agreement for the Student Recognition Banner Program and authorize the Public Works Director/City Engineer to approve any changes subject to the approval of the City Attorney by m/Council Member Jesse L. Molina, s/Mayor Pro Tem Victoria Baca

MINUTES
February 11, 2014

Approved by a vote of 4-0-1, Council Member Richard A. Stewart absent.

- G.3 PUBLIC MEETING REGARDING THE MAIL BALLOT PROCEEDINGS FOR ASSESSOR'S PARCEL NUMBERS (APNS) 482-190-019; AND 316-210-071, -073, -075, AND -079 BALLOTING FOR NPDES
(Report of: Financial & Management Services Department)

Recommendations That the City Council:

Accept public comments regarding the mail ballot proceedings for APNs 482-190-019; and 316-210-071, -073, -075, and -079 for approval of the National Pollutant Discharge Elimination System (NPDES) maximum commercial/industrial regulatory rate.

Mayor Tom Owings opened the agenda item for public comments; there being none, public comments were closed.

- G.4 PUBLIC MEETING REGARDING THE MAIL BALLOT PROCEEDINGS FOR ASSESSOR'S PARCEL NUMBERS (APNS) 482-190-019; AND 316-210-071, -073, -075, AND -079. BALLOTING FOR CSD ZONE M
(Report of: Financial & Management Services Department)

Recommendations That the CSD:

Accept public comments regarding the mail ballot proceedings for APNs 482-190-019; and 316-210-071, -073, -075, and -079 for inclusion into and approval of the annual charges for the CSD Zone M (Commercial, Industrial, and Multifamily Improved Median Maintenance) program.

Mayor Tom Owings opened the agenda item for public comments; there being none, public comments were closed.

- G.5 DECLARING INTENTION TO ESTABLISH CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO. 2014-01 AND TO AUTHORIZE THE LEVY OF A SPECIAL TAX THEREIN
(Report of: Financial & Management Services Department)

Recommendations That the City Council:

Adopt Resolution No. 2014-12. A Resolution of the City Council of the City of Moreno Valley Declaring its Intention to Establish City of Moreno Valley Community Facilities District No. 2014-01 and to Authorize the Levy of a Special Tax Therein.

Mayor Tom Owings opened the agenda item for public comments; there being none, public comments were closed.

MINUTES
February 11, 2014

Adopt Resolution No. 2014-12. A Resolution of the City Council of the City of Moreno Valley Declaring its Intention to Establish City of Moreno Valley Community Facilities District No. 2014-01 and to Authorize the Levy of a Special Tax Therein. by m/Mayor Pro Tem Victoria Baca, s/Mayor Tom Owings

Approved by a vote of 4-0-1, Council Member Richard A. Stewart absent.

G.6 APPOINTMENTS TO THE ARTS COMMISSION
(Report of: City Clerk Department)

Recommendations That the City Council:

1. Appoint the applicant who received majority vote by the City Council.
2. If a vacancy is not filled by a majority vote of the City Council, authorize the City Clerk to re-advertise the position as vacant and carry over the current applications for reconsideration of appointment at a future date.

Mayor Tom Owings opened the agenda item for public comments, which were received from Deanna Reeder.

Appoint the applicant who received majority vote by the City Council.

If a vacancy is not filled by a majority vote of the City Council, authorize the City Clerk to re-advertise the position as vacant and carry over the current applications for reconsideration of appointment at a future date by m/Council Member Yxstian Gutierrez, s/Mayor Pro Tem Victoria Baca

Approved by a vote of 4-0-1, Council Member Richard A. Stewart absent.

G.7 CITY MANAGER'S REPORT (Informational Oral Presentation - not for Council action)

No report given.

G.8 CITY ATTORNEY'S REPORT (Informational Oral Presentation - not for Council action)

City Attorney Suzanne Bryant reported that the case Karla Hernandez v City of Moreno Valley (Riverside Superior Court Case Number 1204892)

MINUTES
February 11, 2014

has been dismissed as a result of a settlement in the amount of \$38,000.

H. LEGISLATIVE ACTIONS

H.1 ORDINANCES - 1ST READING AND INTRODUCTION - NONE

H.2 ORDINANCES - 2ND READING AND ADOPTION - NONE

H.3 ORDINANCES - URGENCY ORDINANCES - NONE

H.4 RESOLUTIONS - NONE

CLOSING COMMENTS AND/OR REPORTS OF THE CITY COUNCIL, COMMUNITY SERVICES DISTRICT, CITY AS SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY OR HOUSING AUTHORITY

Council Member Victoria Baca

1. Animal Services Shelter will hold second Sweet Valentine's Day Pet Adoption, three day event- February 14 - 16, 2014, special discount rates are as follows: \$50.00 dogs/puppies and \$25.00 for cats/kittens; license fee reduced for spay and neutering animals
2. Attended Landmark Middle School event, huge success with lots of school pride; right after the event Mayor Tom Owings surrounded by students wanting to get picture taken with the Mayor; very impressed, indicates how community feels about the City; Congratulated Mayor Tom Owings for the manner how he represented the City

Council Member Yxstian A. Gutierrez

1. Congrats to Moreno Valley Pageant contestants
2. Financial Literacy to be held in District 4, March 1, 2014 - 9:00-11:00 a.m. at Badger Springs School
3. Excited for the banner program; pride in city, looking forward that first banner will be placed on Kentucky Derby which is in District 4
4. Mentoring Month - he is a product of mentoring; children need that; Vice-President of RCC was his mentor
5. Supports after school programs, it provides structure for our children

MINUTES
February 11, 2014

Council Member Jesse L. Molina

1. Mentoring month, mentoring matters; attended mentoring matters reception with Corey Jackson for Sigma Beta Phi; information will be forwarded to City Manager for City's web site
2. Riverside African American Historical Society Black Tie affair on February 21, 2014
3. Motown Tribute at Riverside Convention Center on March 1, 2014
4. Landmark Middle School
5. Banners honoring students create positive; students need attention, positive attitudes be encouraged
6. Tom Jerele, Sr. always brings positive; encouraged positive things be brought to Council

Mayor Tom Owings

1. New publication "We love Moreno Valley" good information
2. Shout to Dr. Vicky Dudek Moreno Unified School District, principal is a fine example of what a good principal can do; her school did well; leadership is not always easy path; it is difficult; congratulations on achievement
3. JPA lawsuit didn't prevail; does not make City wrong
4. Regarding Highland Fairview, Mayor Tom Owings stated, had he been asked he would have told Mr. Benzeevi to give to the Salvation Army and other charities
5. 2.3 million the City is losing in tax revenue is a subsidy to MJPA, money that could have gone into the coffers, public safety, schools, and after school programs, money is going to the County and for that 2.3 million the City does not get anything
6. Responsible for keeping 100 acres for affordable housing; responsible for removing 100 Million dollars on the City's ledger to the developers side of the ledger; working with staff instrumental in moving 6 to 7 property owners; responsible for moving improvements from Theodore to Moreno Beach for improvements
7. Council has more 5-0 votes than any other Council; this is the 5-0

MINUTES
February 11, 2014

club

8. Proud City is looking for affordable housing
9. Mayor Tom Owings stated that the citizens demand and deserve continued progress; the status quo is unacceptable; the price of inaction is a burden we cannot place on our children or grandchildren
10. Acknowledged Dr. King's quote on those who say we're not up to task. *"Nothing in the world is more dangerous than sincere ignorance and conscientious stupidity."*
11. Mayor Tom Owings also read a quote from Nelson Mandella, *"There is no passing to be found playing small - in settling for a life that is less than the one you are capable of living."*
12. Moreno Valley is on the cusp by taking its rightful leadership role in the region. I hope the citizens of Moreno Valley know that is all I have in mind. Thank you, God Bless and may God continue to bless the great City of Moreno Valley.

CLOSED SESSION – None held.

ADJOURNMENT

There being no further business to conduct, the meeting was adjourned at 8:03 p.m. by unanimous informal consent.

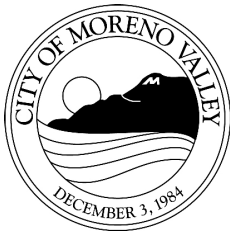
Submitted by:

City Clerk Jane Halstead, CMC
Secretary, Moreno Valley Community Services District
Secretary, City as Successor Agency for the Community Redevelopment Agency of the City of Moreno Valley
Secretary, Moreno Valley Housing Authority
Secretary, Board of Library Trustees

Approved by:

Mayor Tom Owings
President, Moreno Valley Community Services District
Chairperson, City as Successor Agency for the Community Redevelopment Agency of the City of Moreno Valley
Chairperson, Moreno Valley Housing Authority
Chairperson, Board of Library Trustees

MINUTES
February 11, 2014



Report to City Council

TO: Mayor and City Council

FROM: Jane Halstead, City Clerk

AGENDA DATE: February 25, 2014

TITLE: CITY COUNCIL REPORTS ON REIMBURSABLE ACTIVITIES

RECOMMENDED ACTION

Recommendation:

1. Receive and file the Reports on Reimbursable Activities for the period of February 5 – 18, 2014.

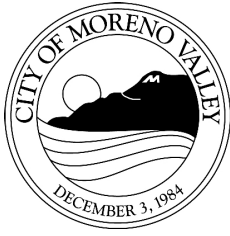
<i>Reports on Reimbursable Activities</i>			
February 5 – 18, 2014			
Council Member	Date	Meeting	Cost
Victoria Baca		None	
Yxstian A. Gutierrez		None	
Jesse L. Molina		None	
Tom Owings	2/12/14	Student of the Month	\$15.00
Richard A. Stewart		None	

Prepared By:
Cindy Miller
Executive Assistant to the Mayor/City Council

Department Head Approval:
Jane Halstead
City Clerk

\\Zurich\shared\InterDept\Council-Clerk\City Clerk Files\Council Office\AB 1234 Reports\2014\Staff Report 2014_Reimbursable Activity 022514.doc

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: AUTHORIZATION TO AWARD THE CONSTRUCTION CONTRACT TO RUIZ CONCRETE & PAVING, INC. DBA RUIZ ENGINEERING FOR THE CYCLE 2 CITYWIDE SIDEWALKS AND ACCESS RAMPS, PROJECT NO. 801 0044 70 76

RECOMMENDED ACTION

Recommendations:

1. Award the construction contract to Ruiz Concrete & Paving, Inc. dba Ruiz Engineering (Ruiz Concrete & Paving, Inc.), 1344 Temple Avenue, Long Beach, California 90804, the lowest responsible bidder, for the Cycle 2 Citywide Sidewalks and Access Ramps.
2. Authorize the City Manager to execute a contract with Ruiz Concrete & Paving, Inc.
3. Authorize the issuance of a Purchase Order to Ruiz Concrete & Paving, Inc., for the amount of \$165,898.80 (\$138,249.00 bid amount plus 20% contingency) when the contract has been signed by all parties.
4. Authorize the Public Works Director/City Engineer to execute any subsequent related minor change orders to the contract with Ruiz Concrete & Paving, Inc. up to, but not exceeding, the contingency amount of \$27,649.80, subject to the approval of the City Attorney.
5. Authorize the Public Works Director/City Engineer to record the Notice of Completion once he determines the work is complete, accept the improvements into the City's maintained system and release the retention to Ruiz Concrete & Paving, Inc., if no claims are filed against the project.

SUMMARY

This report recommends approval of a contract with Ruiz Concrete & Paving, Inc. to construct the Cycle 2 Citywide Sidewalks and Access Ramps. The project's construction is funded with SCAG Article 3 funds (Fund 2800) with Measure A as the local matching funds to be used for design and construction engineering. This project has been approved in the Fiscal Year 2013/2014 Capital Improvement Plan.

DISCUSSION

On October 9, 2012 the City Council accepted the Riverside County Transportation Commission (RCTC) SB821 Bicycle and Pedestrian Facilities Program grant (SB821 grant) in the amount of \$150,000 and authorized the appropriation of \$150,000 from SCAG Article 3 for the design and construction of this project.

This project involves the removal of existing sidewalk and the construction of access ramps to meet current Americans with Disability Act (ADA) requirements at the following locations:

- All northeast and southeast corners of Sheila Street and Faye Avenue, Sheila Street and Yolanda Avenue, and Sheila Street and Juanita Avenue intersections.
- All four corners of Sheila Street and Gentian Avenue intersection.
- Northwest corner of Iris Avenue and Kitching Street intersection.
- Northwest and southwest corners of Leahy Drive and Singer Street intersection.
- Southeast corner of Fir Avenue and Tamara Drive intersection, including 156 feet of adjacent sidewalk to the east.
- Construction of 200 feet of missing sidewalk on the east side of Lasselle Street, north of Avenida De Plata (Alternative Bid No. 1).

The locations of these access ramps and related sidewalks are prioritized and selected on the Public Right-of-Way Access ADA Transition Plan.

In order to conserve funds, City staff delivered the design, and completed the Plans and Bidding Documents in-house. The Notice Inviting Bids was advertised for the subject project and formal bidding procedures have been followed in conformance with the Public Contract Code. The City Clerk opened bids for the project at 10:15 a.m. on January 30, 2014. Twelve (12) bids were received as follows:

<u>CONTRACTORS</u>		<u>Total Verified</u>
		<u>Bid Amounts</u>
1.	Ruiz Concrete & Paving, Inc., Long Beach.....	*\$138,249.00
2.	Hardy & Harper, Inc., Santa Ana	\$148,000.00
3.	Crownline Engineering, Chino Hills	\$172,287.00
4.	TryCo General Engineering, Rimforest.....	\$172,793.00
5.	PTM General Engineering Service, Inc., Riverside.....	\$181,072.00
6.	JCD, Inc., Rancho Cucamonga	\$189,002.50
7.	C.S. Legacy Construction, Inc., Chino.....	\$222,474.00

- 8. Mora’s Equipment & Construction, Pico Rivera \$245,370.00
 - 9. R-JS General Construction, Riverside \$246,425.00
 - 10. Sean Malek Engineering & Construction, Temecula *\$309,050.00
 - 11. Avi-Con, Inc. dba CA Construction, Riverside \$389,355.00
 - 12. DM Contracting, Inc., Colton.....non-responsive
- * *Corrected bid amount*

The lowest responsible bidder was determined by comparing the cumulative total for all bid items, as stipulated in the Bidding Documents. Staff has reviewed the bid by Ruiz Concrete & Paving, Inc. and finds it to be the lowest responsible bidder in possession of a valid license and bid bond. No outstanding issues were identified through review of the references submitted by Ruiz Concrete & Paving, Inc. in their bid and staff recommends the award of the construction contract to this contractor.

There were two bids with calculation errors, but it did not change the order of bid results. One bid was determined to be non-responsive because the contractor was not properly licensed at the bid deadline.

ALTERNATIVES

- 1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely construction of the Cycle 2 Citywide Sidewalks and Access Ramps.*
- 2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will result in delaying the timely construction of the project and prohibit the City from receiving the SB821 grant reimbursement.*

FISCAL IMPACT

Ruiz Concrete & Paving, Inc.’s bid amount is \$138,249.00. A Contingency of 20% of the bid amount (\$27,649.80) is being added to the Contractor’s Purchase Order. The contingency is added to account for any unforeseen subsurface conditions encountered during construction which may result in changes in costs. Unforeseen conditions may include unsuitable soils, unknown or shallow conflicting utilities, or hazardous wastes which need to be properly processed and removed. At the completion of the project, any remaining project budget balance will be returned to the fund balance.

This project is included in the Fiscal Year 2013/2014 Capital Improvements Plan budget. The SB 821 Bicycle and Pedestrian Facilities Program grant will provide for reimbursement of up to \$150,000 for the construction costs. The Measure A budget from the Citywide Annual Pavement Resurfacing project is to be used as the local matching funds to cover the design and construction engineering costs. **There is no impact to the General Fund.**

BUDGETED FUNDS FOR DESIGN AND CONSTRUCTION:

Cycle 2 Citywide Sidewalks and Access Ramps (Account No. 2800-70-76-80001, Project No. 801 0044 70 76)	\$150,000
Citywide Annual Pavement Resurfacing Program Account No. 2001-70-77-80001, Project No. 801 0003 70 77)	<u>\$80,000</u>
Total Budget.....	<u>\$230,000</u>

ESTIMATED PROJECT COSTS:

Design and Project Administration Costs	\$20,000
Contractor Construction Costs (includes Contingency)	\$166,000
Construction Survey Services	\$15,000
Construction Geotechnical Services.....	\$9,000
Construction Management and Inspection Services*	<u>\$15,000</u>
Total Estimated Project Costs	<u>\$225,000</u>

**City staff will provide Construction Management, and Inspection services.*

ANTICIPATED PROJECT SCHEDULE:

Start Construction.....	March 2014
Anticipated Completion of Construction	June 2014

CITY COUNCIL GOALS

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

ATTACHMENTS

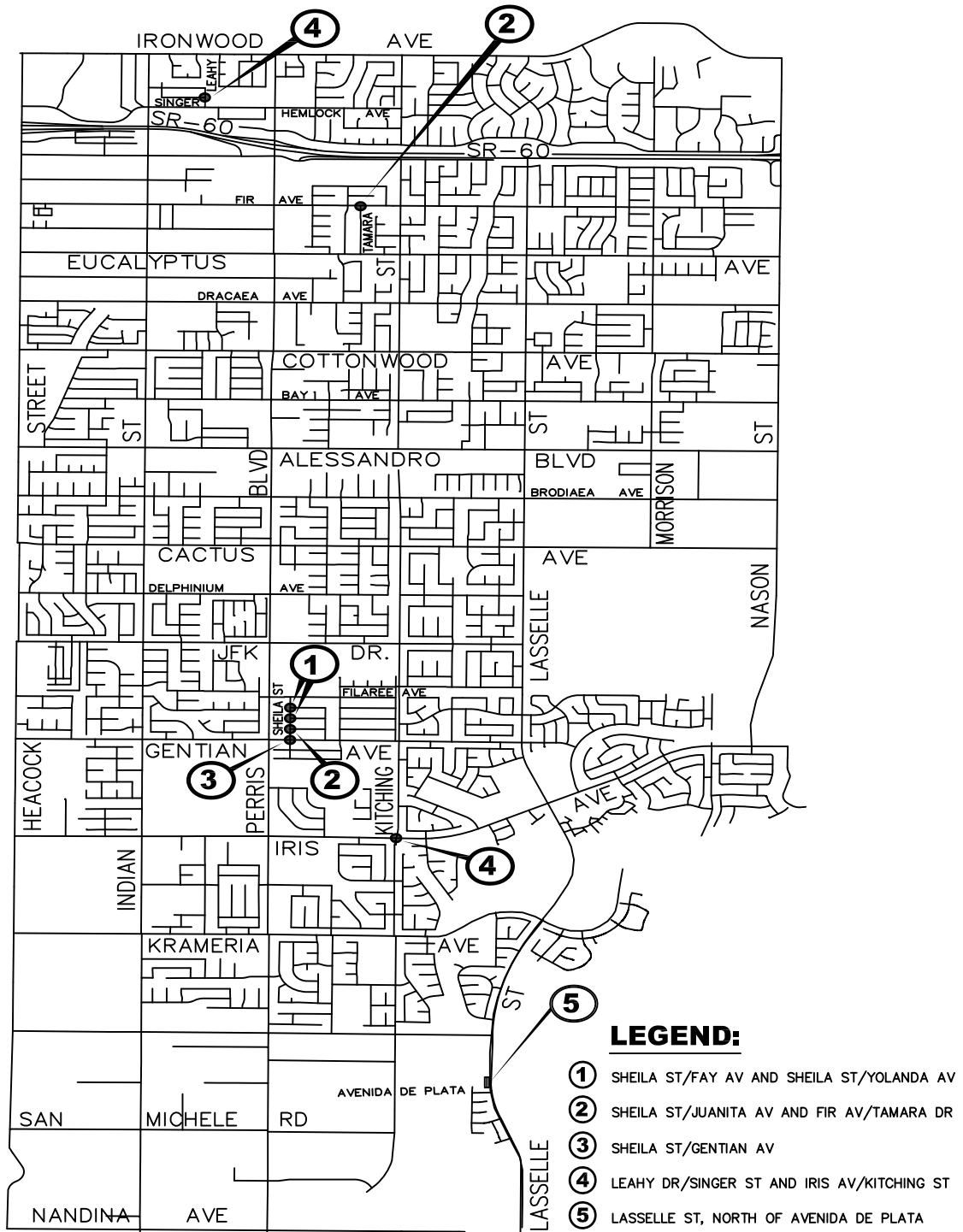
Attachment 1: Location Map

Attachment 2: Agreement with Ruiz Concrete & Paving, Inc.

Prepared By:
Quang Nguyen
Senior Engineer, P.E.

Department Head Approval
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer



LEGEND:

- ① SHEILA ST/FAY AV AND SHEILA ST/YOLANDA AV
- ② SHEILA ST/JUANITA AV AND FIR AV/TAMARA DR
- ③ SHEILA ST/GENTIAN AV
- ④ LEAHY DR/SINGER ST AND IRIS AV/KITCHING ST
- ⑤ LASSELLE ST, NORTH OF AVENIDA DE PLATA



LOCATION MAP

Public Works Department
Capital Projects Division

**CYCLE 2 CITYWIDE SIDEWALK AND
ACCESS RAMP IMPROVEMENTS**

ATTACHMENT 1

PROJECT NO. 801 0044 70 76

This page intentionally left blank.

Agreement No. _____

AGREEMENT

PROJECT NO. 801 0044 70 76

**CYCLE 2
CITYWIDE SIDEWALK AND ACCESS RAMP IMPROVEMENTS
Various Locations**

THIS Agreement, effective as of the date signed by the City of Moreno Valley by and between the City of Moreno Valley, a municipal corporation, County of Riverside, State of California, hereinafter called the "City" and Ruiz Concrete & Paving, Inc. dba Ruiz Engineering, hereinafter called the "Contractor."

That the City and the Contractor for the consideration hereinafter named, agree as follows:

1. CONTRACT DOCUMENTS. The Contract Documents consist of the following, which are incorporated herein by this reference:

- A. Governmental approvals, including, but not limited to, permits required for the Work
- B. Any and all Contract Change Orders issued after execution of this Agreement
- C. This Agreement
- D. Addenda - none issued prior to the opening of the Bids
- E. City Special Provisions, including the General Provisions and Technical Provisions
- F. Standard Specifications for Public Works Construction ("Greenbook") – latest edition in effect at the Bid Deadline, as modified by the City Special Provisions
- G. Reference Specifications/Reference Documents
- H. Project Plans
- I. City Standard Plans
- J. Caltrans Standard Plans
- K. EMWD and AWWPA Standard Plans
- L. The bound Bidding Documents
- M. Contractor's Certificates of Insurance and Additional Insured Endorsements
- N. Contractor's Bidder's Proposal and Subcontractor Listing

In the event of conflict between any of the Contract Documents, the provisions placing a more stringent requirement on the Contractor shall prevail. The Contractor shall provide the better quality or greater quantity of Work and/or materials unless otherwise directed by City in writing. In the event none of the Contract Documents place a more stringent requirement or greater burden on the Contractor, the controlling provision shall be that which is found in the document with higher precedence in accordance with the above order of precedence.

2. REFERENCE DOCUMENTS. The following Reference Documents are not considered Contract Documents and were provided to the Contractor for informational purposes:

None

3. SCOPE OF WORK. The Contractor shall perform and provide all materials, tools, equipment, labor, and services necessary to complete the Work described in the Contract Documents, except as otherwise provided in the Plans, Standard Specifications, or City Special Provisions to be the responsibility of others.

4. PAYMENT.

4.1. Contract Price and Basis for Payment. In consideration for the Contractor’s full, complete, timely, and faithful performance of the Work required by the Contract Documents, the City shall pay Contractor for the actual quantity of Work required under the Bid Items awarded by the City performed in accordance with the lump sum prices and unit prices for Bid Items and Alternate Bid Items, if any, set forth the Bidder’s Proposal submitted with the Bid. The sum of the unit prices and lump sum prices for the Base Bid Items and Alternate Bid Items, awarded by the City is One Hundred Thirty Eight Thousand Two Hundred Forty Nine and 00/100 Dollars **(\$138,249.00)** (“Contract Price”). The Alternate Bid Items selected by the City and included in the Contract is Alternate No. 1. It is understood and agreed that the quantities set forth in the Bidder’s Proposal for which unit prices are fixed are estimates only and that City will pay and Contractor will accept, as full payment for these items of work, the unit prices set forth in the Bidder’s Proposal multiplied by the actual number of units performed, constructed, or completed as directed by the City Engineer.

4.2. Payment Procedures. Based upon applications for payment submitted by the Contractor to the City, the City shall make payments to the Contractor in accordance with Article 9 of the Standard Specifications, as modified by Article 9 of the City Special Provisions.

5. CONTRACT TIME.

A. Contract Time. The Contract Time shall be determined in accordance with the following:

Base Bid	50 Working Days
Alternate 1	10 Working Days

B. Initial Notice to Proceed. After the Agreement has been fully executed by the Contractor and the City, the City shall issue the “Notice to Proceed to Fulfill Preconstruction Requirements.” The date specified in the Notice to Proceed to Fulfill Preconstruction Requirements constitutes the date of commencement of the Contract Time of **Sixty (60) Working Days**. The Contract Time includes the time necessary to fulfill preconstruction requirements, and to complete construction of the Project (except as adjusted by subsequent Change Orders).

The Notice to Proceed to Fulfill Preconstruction Requirements shall further specify that Contractor must complete the preconstruction requirements within **Ten (10) Working Days** after the date of commencement of the Contract Time; this duration is part of the Contract Time.

Preconstruction requirements include, but are not limited to, the following:

- Submitting and obtaining approval of Traffic Control Plans
- Submitting and obtaining approval of the Water Pollution Control Plan (WPCP)
- Submitting and obtaining approval of critical required submittals
- Obtaining an approved no fee Encroachment Permit
- Notifying all agencies, utilities, residents, etc., as outlined in the Bidding Documents

If the City's issuance of a Notice to Proceed to Fulfill Preconstruction Requirements is delayed due to Contractor's failure to return the fully executed Agreement and insurance and bond documents within ten (10) Working Days after Contract award, then Contractor agrees to the deduction of one (1) Working Day from the number of days to complete the Project for every Working Day of delay in the City's receipt of said documents. This right is in addition to and does not affect the City's right to demand forfeiture of Contractor's Bid Security if Contractor persistently delays in providing the required documentation.

C. Notice to Proceed with Construction. After all preconstruction requirements are met and materials have been ordered in accordance with the Notice to Proceed to Fulfill Preconstruction Requirements, the City shall issue the "Notice to Proceed with Construction," at which time the Contractor shall diligently prosecute the Work, including corrective items of Work, day to day thereafter, within the remaining Contract Time.

6. LIQUIDATED DAMAGES AND CONTROL OF WORK

6.1. Liquidated Damages. The Contractor and City (collectively, the "Parties") have agreed to liquidate damages with respect to Contractor's failure to fulfill the preconstruction requirements, and/or failure to complete the Work within the Contract Time. The Parties intend for the liquidated damages set forth herein to apply to this Contract as set forth in Government Code Section 53069.85. Contractor acknowledges and agrees that the liquidated damages are intended to compensate the City solely for Contractor's failure to meet the deadline for completion of the Work and will not excuse Contractor from liability from any other breach, including any failure of the Work to conform to the requirements of the Contract Documents.

In the event that Contractor fails to fulfill the preconstruction requirements and/or fails to complete the Work within the Contract Time, Contractor agrees to pay the City **\$500.00 per Calendar day** that completion of the Work is delayed beyond the Contract Time, as adjusted by Contract Change Orders. The Contractor will not be assessed liquidated damages for delays occasioned by the failure of the City or of the owner of a utility to provide for the removal or relocation of utility facilities.

The Contractor and City acknowledge and agree that the foregoing liquidated damages have been set based on an evaluation of damages that the City will incur in the event of late completion of the Work. The Contractor and City acknowledge and agree that the amount of such damages are impossible to ascertain as of the date of execution hereof and have agreed to such liquidated damages to fix the City's damages and to avoid later disputes. It is understood and agreed by Contractor that liquidated damages payable pursuant to this Agreement are not a penalty and that such amounts are not manifestly unreasonable under the circumstances existing as of the date of execution of this Agreement.

It is further mutually agreed that the City will have the right to deduct liquidated damages against progress payments or retainage and that the City will issue a Change Order or Construction Change Directive and reduce the Contract Price accordingly. In the event the remaining unpaid Contract Price is insufficient to cover the full amount of liquidated damages, Contractor shall pay the difference to the City.

6.2. Any work completed by the Contractor after the issuance of a Stop Work Notice by the City shall be rejected and/or removed and replaced as specified in Section 2-11 of the Special Provisions.

6.3. **Owner is Exempt from Liability for Early Completion Delay Damages.** While the Contractor may schedule completion of all of the Work, or portions thereof, earlier than the Contract Time, the Owner is exempt from liability for and the Contractor will not be entitled to an adjustment of the Contract Sum or to any additional costs, damages, including, but not limited to, claims for extended general conditions costs, home office overhead, jobsite overhead, and management or administrative costs, or compensation whatsoever, for use of float time or for Contractor's inability to complete the Work earlier than the Contract Time for any reason whatsoever, including but not limited to, delay cause by Owner or other Excusable Compensable Delay. See Section 6-6 of the Standard Specifications and City Special Provisions regarding compensation for delays.

7. INSURANCE.

7.1. **General.** The Contractor shall procure and maintain at its sole expense and throughout the term of this Agreement, any extension thereof, Commercial General Liability, Automobile Liability, and Workers' Compensation Insurance with such coverage limits as described herein.

7.2. **Additional Insured Endorsements.** The Contractor shall cause the insurance required by the Contract Document to include the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives as an additional insureds. For the Commercial General Liability coverage, said parties shall be named as additional insureds utilizing either:

1. Insurance Services Office ("ISO") Additional Insured endorsement CG 20 10 (11/85); or
2. ISO Additional Insured endorsement CG 20 10 (10/01) and Additional Insured Completed Operations endorsement CG 20 37 (10/01); or
3. Substitute endorsements providing equivalent coverage, approved by the City.

The endorsements shall be signed by a person authorized by the insurer to bind coverage on its behalf. The coverage shall contain no special limitations on the scope of protection afforded to such additional insureds. Coverage for such additional insureds does not extend to liability to the extent prohibited by Insurance Code Section 11580.4.

7.3. **Waivers of Subrogation.** All policies of insurance required by the Contract Documents shall include or be endorsed to provide a waiver by the insurers of any rights of recovery or subrogation that the insurers may have at any time against the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and representatives.

7.4. **Primary Coverage.** All policies and endorsements shall stipulate that the Contractor's (and the Subcontractors') insurance coverage shall be primary insurance as respects the City of Moreno Valley, the City Council and each member thereof, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and their respective officials, employees, commission members, officers, directors, agents, employees, volunteers and

representatives, and shall be excess of the Contractor's (and its Subcontractors') insurance and shall not contribute with it.

7.5. **Coverage Applies Separately to Each Insured and Additional Insured.** Coverage shall state that the Contractor's (and its Subcontractors') insurance shall apply separately to each insured or additional insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability. Coverage shall apply to any claim or suit brought by an additional insured against a named insured or other insured.

7.6. **Self-Insurance.** Any self-insurance (including deductibles or self-insured retention in excess of \$50,000) in lieu of liability insurance must be declared by Contractor and approved by the City in writing prior to execution of the Agreement. The City's approval of self-insurance, if any, is within the City's sole discretion and is subject to the following conditions:

1. Contractor must, at all times during the term of the Agreement and for a period of at least **one (1)** year after completion of the Project, and any extension of the one-year correction guarantee period in accordance with Section 6-8.1 of the City Special Provisions, maintain and upon Owner's reasonable request provide evidence of:
 - (a) Contractor's "net worth" (defined as "total assets" [defined as all items of value owned by the Contractor including tangible items such as cash, land, personal property and equipment and intangible items such as copyrights and business goodwill]) minus total outside liabilities must be reflected in a financial statement for the prior fiscal year reflecting sufficient income and budget for Contractor to afford at least one loss in an amount equal to the amount of self-insurance;
 - (b) financial statements showing that Contractor has funds set aside/budgeted to finance the self-insured fund (i.e., Contractor has a program that fulfills functions that a primary insurer would fill; and
 - (c) a claims procedure that identifies how a claim is supposed to be tendered to reach the financing provided by the self-insured fund.
2. If at any time after such self-insurance has been approved Contractor fails to meet the financial thresholds or otherwise fails to comply with the provisions set forth in this Paragraph 7, at the option of the City:
 - (a) the Contractor shall immediately obtain and thereafter maintain the third party insurance required under this Paragraph 7 and otherwise on the terms required above; or
 - (b) the insurer shall reduce or eliminate such deductibles or self-insured retention as respects the City, its officers, officials, employees and volunteers; or
 - (c) the Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration, and defense expenses.

7.7. **Insurer Financial Rating.** Insurance companies providing insurance hereunder shall be rated A-:VII or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

7.8. **Notices to City of Cancellation or Changes.** Each insurance policy described in this Paragraph 7 shall contain a provision or be endorsed to state that coverage will not be cancelled without **thirty (30) days'** prior written notice by certified or registered mail to the City (this obligation may be satisfied in the alternative by requiring such notice to be provided by Contractor's insurance broker and set forth on its Certificate of Insurance provided to the City), except that cancellation for non-payment of premium shall require (10) days prior written notice by certified or registered mail. If an insurance carrier cancels any policy or elects not to renew any policy required to be maintained by Contractor pursuant to the Contract Documents, Contractor agrees to give written notice to the City at the address indicated on the first page of the Agreement. Contractor agrees to provide the same notice of cancellation and non-renewal to the City that is required by such policy(ies) to be provided to the First Named Insured under such policy(ies). Contractor shall provide confirmation that the required policies have been renewed not less than seven (7) days prior to the expiration of existing coverages and shall deliver renewal or replacement policies, certificates and endorsements to the City Clerk within fourteen (14) days of the expiration of existing coverages. Contractor agrees that upon receipt of any notice of cancellation or alteration of the policies, Contractor shall procure within five (5) days, other policies of insurance similar in all respects to the policy or policies to be cancelled or altered. Contractor shall furnish to the City Clerk copies of any endorsements that are subsequently issued amending coverage or limits within fourteen (14) days of the amendment.

7.9. **Commercial General Liability.** Coverage shall be written on an ISO Commercial General Liability "occurrence" form CG 00 01 (10/01 or later edition) or equivalent form approved by the City for coverage on an occurrence basis. The insurance shall cover liability, including, but not limited to, that arising from premises operations, stop gap liability, independent contractors, products-completed operations, personal injury, advertising injury, and liability assumed under an insured contract. The policy shall be endorsed to provide the Aggregate Per Project Endorsement ISO form CG 25 03 (11/85). Coverage shall contain no contractors' limitation or other endorsement limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground (x, c, u) property damage. Contractor shall provide Products/Completed Operations coverage to be maintained continuously for a minimum of **one (1) year** after Final Acceptance of the Work, and any extension of the one-year correction guarantee period in accordance with Section 6-8.1 of the City Special Provisions.

Contractor shall maintain Commercial General Liability insurance with the following minimum limits: \$1,000,000 per occurrence / \$2,000,000 aggregate / \$2,000,000 products-completed operations.

7.10. **Business Automobile Liability.** Coverage shall be written on ISO form CA 00 01 (12/93 or later edition) or a substitute form providing equivalent coverage for owned, hired, leased and non-owned vehicles, whether scheduled or not, with \$1,000,000 combined single limit per accident for bodily injury and property damage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

7.11. **Workers' Compensation.** Contractor shall comply with the applicable sections of the California Labor Code concerning workers' compensation for injuries on the job. Compliance is accomplished in one of the following manners:

1. Provide copy of permissive self-insurance certificate approved by the State of California; or

2. Secure and maintain in force a policy of workers' compensation insurance with statutory limits and Employer's Liability Insurance with a minimal limit of **\$1,000,000** per accident; or
3. Provide a "waiver" form certifying that no employees subject to the Labor Code's Workers' Compensation provision will be used in performance of this Contract.

7.12. **Subcontractors' Insurance.** The Contractor shall include all Subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each Subcontractor. All coverages for Subcontractors shall be subject to all of the requirements stated herein.

8. **BONDS.** The Contractor shall furnish a satisfactory Performance Bond meeting all statutory requirements of the State of California on the form provided by the City. The bond shall be furnished as a guarantee of the faithful performance of the requirements of the Contract Documents as may be amended from time to time, including, but not limited to, liability for delays and damages (both direct and consequential) to the City and the City's Separate Contractors and consultants, warranties, guarantees, and indemnity obligations, in an amount that shall remain equal to one hundred percent (100%) of the Contract Price.

The Contractor shall furnish a satisfactory Labor and Materials Payment Bond meeting all statutory requirements of the State of California on the form provided by the City in an amount that shall remain equal to one hundred percent (100%) of the Contract Price to secure payment of all claims, demands, stop notices, or charges of the State of California, of material suppliers, mechanics, or laborers employed by the Contractor or by any Subcontractor, or any person, firm, or entity eligible to file a stop notice with respect to the Work.

All bonds shall be executed by a California-admitted surety insurer. Bonds issued by a California-admitted surety insurer listed on the latest version of the U.S Department of Treasury Circular 570 shall be deemed accepted unless specifically rejected by the City. Bonds issued by sureties not listed in Treasury Circular 570 must be accompanied by all documents enumerated in California Code of Civil Procedure Section 995.660(a). The bonds shall bear the same date as the Contract. The attorney-in-fact who executes the required bonds on behalf of the surety shall affix thereto a certified and current copy of the power of attorney. In the event of changes that increase the Contract Price, the amount of each bond shall be deemed to increase and at all times remain equal to the Contract Price. The signatures shall be acknowledged by a notary public. Every bond must display the surety's bond number and incorporate the Contract for construction of the Work by reference. The terms of the bonds shall provide that the surety agrees that no change, extension of time, alteration, or modification of the Contract Documents or the Work to be performed thereunder shall in any way affect its obligations and shall waive notice of any such change, extension of time, alteration, or modification of the Contract Documents. The surety further agrees that it is obligated under the bonds to any successor, grantee, or assignee of the City.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

Should any bond become insufficient, or should any of the sureties, in the opinion of the City, become non-responsible or unacceptable, the Contractor shall, within ten (10) Calendar Days after receiving notice from the City, provide written documentation to the Satisfaction of the City that Contractor has secured new or additional sureties for the bonds; otherwise the Contractor shall be in

default of the Contract. No further payments shall be deemed due or will be made under Contract until a new surety(ies) qualifies and is accepted by the City.

Contractor agrees that the Labor and Materials Payment Bond and Faithful Performance Bond attached to this Agreement are for reference purposes only, and shall not be considered a part of this Agreement. Contractor further agrees that said bonds are separate obligations of the Contractor and its surety, and that any attorney's fee provision contained in any payment bond or performance bond shall not apply to this Agreement. In the event there is any litigation between the parties arising from the breach of this Agreement, each party will bear its own attorneys' fees in the litigation.

9. RECORDS. The Contractor and its Subcontractors shall maintain and keep books, payrolls, invoices of materials, and Project records current, and shall record all transactions pertaining to the Contract in accordance with generally acceptable accounting principles. Said books and records shall be made available to the City of Moreno Valley, Riverside County, the State of California, the Federal Government, and to any authorized representative thereof for purposes of audit and inspection at all reasonable times and places. All such books, payrolls, invoices of materials, and records shall be retained for at least three (3) years after Final Acceptance.

10. INDEMNIFICATION.

10.1. **General.** To the fullest extent permitted by law, the Contractor assumes liability for and agrees, at the Contractor's sole cost and expense, to promptly and fully indemnify, protect, hold harmless and defend (even if the allegations are false, fraudulent, or groundless), the City of Moreno Valley, its City Council, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), and all of their respective officials, officers, directors, employees, commission members, representatives and agents ("Indemnitees"), from and against any and all claims, allegations, actions, suits, arbitrations, administrative proceedings, regulatory proceedings, or other legal proceeds, causes of action, demands, costs, judgments, liens, stop notices, penalties, liabilities, damages, losses, anticipated losses of revenues, and expenses (including, but not limited to, any fees of accountants, attorneys, experts or other professionals, or investigation expenses), or losses of any kind or nature whatsoever, whether actual, threatened or alleged, arising out of, resulting from, or in any way (either directly or indirectly), related to the Work, the Project or any breach of the Contract by Contractor or any of its officers, agents, employees, Subcontractors, Sub-subcontractors, or any person performing any of the Work, pursuant to a direct or indirect contract with the Contractor ("Indemnity Claims"). Such Indemnity Claims include, but are not limited to, claims for:

- A. Any activity on or use of the City's premises or facilities;
- B. Any liability incurred due to Contractor acting outside the scope of its authority pursuant to the Contract, whether or not caused in part by an Indemnified Party;
- C. The failure of Contractor or the Work to comply with any Applicable Law, permit or orders;
- D. Any misrepresentation, misstatement or omission with respect to any statement made in the Contract Documents or any document furnished by the Contractor in connection therewith;
- E. Any breach of any duty, obligation or requirement under the Contract Documents, including, but not limited to any breach of Contractor's warranties, representations or agreements set forth in the Contract Documents;

- F. Any failure to coordinate the Work with City's Separate Contractors;
- G. Any failure to provide notice to any party as required under the Contract Documents;
- H. Any failure to act in such a manner as to protect the Project from loss, cost, expense or liability;
- I. Bodily or personal injury, emotional injury, sickness or disease, or death at any time to any persons including without limitation employees of Contractor;
- J. Damage or injury to real property or personal property, equipment and materials (including, but without limitation, property under the care and custody of the Contractor or the City) sustained by any person or persons (including, but not limited to, companies, corporations, utility company or property owner, Contractor and its employees or agents, and members of the general public);
- K. Any liability imposed by Applicable Law including, but not limited to criminal or civil fines or penalties;
- L. Any dangerous, hazardous, unsafe or defective condition of, in or on the Site, of any nature whatsoever, which may exist by reason of any act, omission, neglect, or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors;
- M. Any operation conducted upon or any use or occupation of the Site by Contractor, its officers, agents, employees, or Subcontractors under or pursuant to the provisions of the Contract or otherwise;
- N. Any acts, errors, omission or negligence of Contractor, its officers, agents, employees, or Subcontractors;
- O. Infringement of any patent rights, licenses, copyrights or intellectual property which may be brought against the Contractor or Owner arising out of Contractor's Work, for which the Contractor is responsible; and
- P. Any and all claims against the City seeking compensation for labor performed or materials used or furnished to be used in the Work or alleged to have been furnished on the Project, including all incidental or consequential damages resulting to the City from such claims.

10.2. **Effect of Indemnitees' Active Negligence.** Contractor's obligations to indemnify and hold the Indemnitees harmless exclude only such portion of any Indemnity Claim which is attributable to the active negligence or willful misconduct of the Indemnitee, provided such active negligence or willful misconduct is determined by agreement of the parties or by findings of a court of competent jurisdiction. In instances where an Indemnitee's active negligence accounts for only a percentage of the liability for the Indemnity Claim involved, the obligation of Contractor will be for that entire percentage of liability for the Indemnity Claim not attributable to the active negligence or willful misconduct of the Indemnitee(s). Such obligation shall not be construed to negate, abridge or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph 11. Subject to the limits set forth herein, the Contractor, at its own expense, shall satisfy any resulting judgment that may be rendered against any Indemnitee resulting from an Indemnity Claim. The Indemnitees shall be consulted with regard to any proposed settlement.

10.3. **Independent Defense Obligation.** The duty of the Contractor to indemnify and hold harmless the Indemnitees includes the separate and independent duty to defend the Indemnitees, which duty arises immediately upon receipt by Contractor of the tender of any Indemnity Claim from an Indemnitee. The Contractor's obligation to defend the Indemnitee(s) shall be at Contractor's sole expense, and not be excused because of the Contractor's inability to evaluate liability or because

the Contractor evaluates liability and determines that the Contractor is not liable. This duty to defend shall apply whether or not an Indemnity Claim has merit or is meritless, or which involves claims or allegations that any or all of the Indemnitees were actively, passively, or concurrently negligent, or which otherwise asserts that the Indemnitees are responsible, in whole or in part, for any Indemnity Claim. The Contractor shall respond within thirty (30) Calendar Days to the tender of any Indemnity Claim for defense and/or indemnity by an Indemnitee, unless the Indemnitee agrees in writing to an extension of this time. The defense provided to the Indemnitees by Contractor shall be by well qualified, adequately insured and experienced legal counsel acceptable to the City.

10.4. Intent of Parties Regarding Scope of Indemnity. It is the intent of the parties that the Contractor and its Subcontractors of all tiers shall provide the Indemnitees with the broadest defense and indemnity permitted by Applicable Law. In the event that any of the defense, indemnity or hold harmless provisions in the Contract Documents are found to be ambiguous, or in conflict with one another, it is the parties' intent that the broadest and most expansive interpretation in favor of providing defense and/or indemnity to the Indemnitees be given effect.

10.5. Waiver of Indemnity Rights Against Indemnitees. With respect to third party claims against the Contractor, to the fullest extent permitted by law, the Contractor waives any and all rights to any type of express or implied indemnity against the Indemnitees.

10.6. Subcontractor Requirements. In addition to the requirements set forth hereinabove, Contractor shall ensure, by written subcontract agreement, that each of Contractor's Subcontractors of every tier shall protect, defend, indemnify and hold harmless the Indemnitees with respect to Indemnity Claims arising out of, in connection with, or in any way related to each such Subcontractors' Work on the Project in the same manner in which Contractor is required to protect, defend, indemnify and hold the Indemnitees harmless. In the event Contractor fails to obtain such defense and indemnity obligations from others as required herein, Contractor agrees to be fully responsible to the Indemnitees according to the terms of this Paragraph 11.

10.7. No Limitation or Waiver of Rights. Contractor's obligations under this Paragraph 11 are in addition to any other rights or remedies which the Indemnitees may have under the law or under the Contract Documents. Contractor's indemnification and defense obligations set forth in this Paragraph 11 are separate and independent from the insurance provisions set forth in the Contract Documents, and do not limit, in any way, the applicability, scope, or obligations set forth in such insurance provisions. The purchase of insurance by the Contractor with respect to the obligations required herein shall in no event be construed as fulfillment or discharge of such obligations. In any and all claims against the Indemnitees by any employee of the Contractor, any Subcontractor, any supplier of the Contractor or Subcontractors, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the obligations under this Paragraph 11 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor or any supplier of either of them, under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts. Failure of the City to monitor compliance with these requirements imposes no additional obligations on the City and will in no way act as a waiver of any rights hereunder.

10.8. Withholding to Secure Obligations. In the event an Indemnity Claim arises prior to final payment to Contractor, the City may, in its sole discretion, reserve, retain or apply any monies due Contractor for the purpose of resolving such Indemnity Claims; provided, however, the City may release such funds if the Contractor provides the City with reasonable assurances of protection of

the Indemnitees' interests. The City shall, in its sole discretion, determine whether such assurances are reasonable.

10.9. **Survival of Indemnity Obligations.** Contractor's obligations under this Paragraph 11 are binding on Contractor's and its Subcontractors' successors, heirs and assigns and shall survive the completion of the Work or termination of the Contractor's performance of the Work.

11. **SUCCESSORS AND ASSIGNS.** The Parties bind themselves, their heirs, executors, administrators, successors and assigns the covenants, agreements and obligations contained in the Contract Documents. The Contractor shall not, either voluntarily or by action of law, assign any right or obligation of the Contractor under the Contract Documents without prior written consent of the City.

(SIGNATURE PAGE FOLLOWS)

CITY OF MORENO VALLEY, Municipal Corporation

Ruiz Concrete & Paving, Inc.
dba Ruiz Engineering

BY: _____
City Manager

License No./
Classification: _____

DATE: _____

Expiration Date: _____

Federal I.D. No.: _____

<u>INTERNAL USE ONLY</u>
APPROVED AS TO LEGAL FORM:
_____ City Attorney
_____ Date
RECOMMENDED FOR APPROVAL:
_____ Public Works Director/City Engineer
_____ Date

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

PRINT NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

SIGNING INSTRUCTIONS TO THE CONTRACTOR:

Signature(s) must be accompanied by a completed notary certificate of acknowledgement attached hereto. A general partner must sign on behalf of a partnership. **Two (2)** corporate officers must sign on behalf of a corporation unless the corporation has a corporate resolution that allows one person to sign on behalf of the corporation; if applicable, said resolution must be attached hereto. The corporate seal may be affixed hereto.

CALIFORNIA ALL-PURPOSE
CERTIFICATE OF ACKNOWLEDGMENT

SAMPLE

State of California

County of _____

On _____ before me, _____,
(Here insert name and title of the officer)

personally appeared _____,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledgement to me that he/she they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

(Notary Seal)

ADDITIONAL OPTIONAL INFORMATION

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

DESCRIPTION OF THE ATTACHED DOCUMENT

AGREEMENT SIGNATURE PAGE
(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____

Document Date _____

Additional Information

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they, is/are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document.

CAPACITY CLAIMED BY THE SIGNER

- Individual(s)
- Corporate Officer

(Title)

- Partner (s)
- Attorney-in-Fact
- Other _____

CONTRACTOR'S BONDS

PREMIUM \$ _____

**FAITHFUL PERFORMANCE BOND
(100% of Total Contract Price)**

PROJECT NO. 801 0044 70 76

**CYCLE 2
CITYWIDE SIDEWALK AND ACCESS RAMP IMPROVEMENTS
Various Locations**

KNOW ALL MEN AND WOMEN BY THESE PRESENTS:

THAT WHEREAS, the City Council of the City of Moreno Valley, State of California, known as "City," has awarded to Ruiz Concrete & Paving, Inc. dba Ruiz Engineering, as Principal hereinafter designated as "Contractor" and have entered into an Agreement whereby the Contractor agrees to construct or install and complete certain designated public improvements, which said Agreement, effective on the date signed by the City of Moreno Valley, and identified as **Project No. 801 0044 70 76**, and all Contract Documents are hereby referred to and made a part hereof; and

WHEREAS, said Contractor under the terms of said Contract Documents is required to furnish a bond guaranteeing the faithful performance of said Agreement;

NOW THEREFORE, we the undersigned Contractor and _____, as Surety, are held and firmly bound unto the City of Moreno Valley, County of Riverside in the penal sum of _____ dollars, (\$ _____), lawful money of the United States, to be paid to the said City or its certain attorney, its successors and assigns; for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally liable (CCP 995.320 (a)(1)), firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above bound Contractor, his or her or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and provisions in said Contract Documents and any alterations thereof made as therein provided, on his or her or their part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the City of Moreno Valley, its officers, agents and employees, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect. In the event suit is brought upon this bond by the City and judgement is recovered, the Surety shall pay all costs incurred by the City in such suit, including a reasonable attorney fee to be fixed by the court.

Contractor and Surety agree that this Faithful Performance Bond shall not be considered a part of the Agreement between Contractor and the City ("Agreement"). Contractor and Surety further agree that this Faithful Performance Bond is a separate obligation of the Contractor and its Surety, and that any attorneys' fee provision contained in this Faithful Performance Bond shall not apply to the Agreement. In the event there is any litigation between the parties arising from the breach of the Agreement, each party will bear its own attorneys' fees in the litigation.

The Surety hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the Contract Documents or to the Work to be performed thereunder, or the Provisions accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract Documents or to the Work or the Provisions.

(SIGNATURE PAGE FOLLOWS)

FAITHFUL PERFORMANCE BOND
00601-1

BOND NO. _____

IN WITNESS WHEREOF, we have hereunto set our hands, and seals on this _____ day
of _____ 20____.

CONTRACTOR (Principal)

SURETY

Contractor Name: _____

Name: _____

Address: _____

Address: _____

Telephone No.: _____

Telephone No.: _____

Print Name: _____

Print Name: _____
Attorney-in-Fact

Signature: _____

Signature: _____

Approved as to Form this

_____ day of _____ 20____

City Attorney
City of Moreno Valley

NOTE:

- The bond shall be executed by a California admitted surety insurer (CCP 995.311).
- The bond shall include an attached Notary Certificate for the Attorney-in-Fact.
- The bond shall include an attached Notary Certificate for the Bidder.
- The bond shall include an attached original Power of Attorney only authorizing the Attorney-in-Fact to act for the Surety.
- The bond shall include the address at which the Principal (Bidder) and Surety may be served with notices, papers and other documents.
- The Bidder's and Surety's corporate seal may be affixed hereto.

**CALIFORNIA ALL-PURPOSE
CERTIFICATE OF ACKNOWLEDGMENT**

SAMPLE

State of California
County of _____

On _____ before me, _____,
(Here insert name and title of the officer)

personally appeared _____,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledgement to me that he/she they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

(Notary Seal)

**ADDITIONAL OPTIONAL INFORMATION
INSTRUCTIONS FOR COMPLETING THIS FORM**

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

DESCRIPTION OF THE ATTACHED DOCUMENT

FAITHFUL PERFORMANCE BOND SIGNATURE PAGE
(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____

Document Date _____

Additional Information

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they, is/are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ∨ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ∨ Indicate title or type of attached document, number of pages and date.
 - ∨ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document.

CAPACITY CLAIMED BY THE SIGNER

- Individual(s)
- Corporate Officer

(Title)
- Partner (s)
- Attorney-in-Fact
- Other _____

BOND NO. _____

PREMIUM \$ _____

**LABOR AND MATERIALS PAYMENT BOND
(100% of Total Contract Amount)**

PROJECT NO. 801 0044 70 76

**CYCLE 2
CITYWIDE SIDEWALK AND ACCESS RAMP IMPROVEMENTS
Various Locations**

KNOW ALL MEN AND WOMEN BY THESE PRESENTS

THAT WHEREAS, the City Council of the City of Moreno Valley, State of California, known as "City", has awarded to Ruiz Concrete & Paving, Inc. dba Ruiz Engineering, as Principal hereinafter designated as "Contractor" and have entered into an Agreement whereby the Contractor agrees to construct or install and complete certain designated public improvements, which said Agreement, effective on the date signed by the City of Moreno Valley, and identified as **Project No. 801 0044 70 76**, and Contract Documents are hereby referred to and made a part hereof; and

WHEREAS, said Contractor under the terms of said Contract Documents is required to furnish a bond to secure the payment of claims of laborers, mechanics, materialmen, and other persons, as provided by law;

NOW, THEREFORE, we the undersigned Contractor and _____, as Surety are held and firmly bound unto the City of Moreno Valley, County of Riverside, in the penal sum of _____ dollars, (\$ _____), lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally liable (CCP 995.320 (a)(1)), firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if said Contractor, his or her or its heirs, executors, administrator, successors or assigns, or subcontractors, shall fail to pay any of the persons described in the State of California Civil Code, Section 3181, or amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such claimant, or any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of employees of the Contractor and his or her subcontractors, pursuant to Section 13020, of the Unemployment Insurance Code, with respect to such work and labor, that the Surety or Sureties herein will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In the event suit is brought upon this bond by the City or other person entitled to bring such an action and judgment is recovered, the Surety shall pay all costs incurred by the City in such suit, including a reasonable attorney fee to be fixed by the court.

Contractor and Surety agree that this Labor and Materials Payment Bond shall not be considered a part of the Agreement between Contractor and the City ("Agreement"). Contractor and Surety further agree that this Labor and Materials Payment Bond is a separate obligation of the Contractor and its Surety, and that any attorneys' fee provision contained in this Labor and Materials Payment Bond shall not apply to the Agreement. In the event there is any litigation between the parties arising from the breach of the Agreement, each party will bear its own attorneys' fees in the litigation.

This bond shall inure to the benefit of any of the persons described in the State of California Civil Code Section 3181, to give a right of action to such persons or their assigns in any suit brought upon this bond.

(SIGNATURE PAGE FOLLOWS)

PAYMENT BOND
00602-1

BOND NO. _____

IN WITNESS WHEREOF, we have hereunto set our hands, and seals on this _____ day
of _____ 20____.

CONTRACTOR (Principal)

SURETY

Contractor Name: _____

Name: _____

Address: _____

Address: _____

Telephone No.: _____

Telephone No.: _____

Print Name: _____

Print Name: _____

Attorney-in-Fact

Signature: _____

Signature: _____

Approved as to Form this

_____ day of _____ 20____

City Attorney
City of Moreno Valley

NOTE:

- The bond shall be executed by a California admitted surety insurer (CCP 995.311).
- The bond shall include an attached Notary Certificate for the Attorney-in-Fact.
- The bond shall include an attached Notary Certificate for the Bidder.
- The bond shall include an attached original Power of Attorney only authorizing the Attorney-in-Fact to act for the Surety.
- The bond shall include the address at which the Principal (Bidder) and Surety may be served with notices, papers and other documents.
- The Bidder's and Surety's corporate seal may be affixed hereto.

**CALIFORNIA ALL-PURPOSE
CERTIFICATE OF ACKNOWLEDGMENT**

SAMPLE

State of California

County of _____

On _____ before me, _____,
(Here insert name and title of the officer)

personally appeared _____,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledgement to me that he/she they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

(Notary Seal)

DESCRIPTION OF THE ATTACHED DOCUMENT

LABOR AND MATERIALS PAYMENT BOND
SIGNATURE PAGE

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____

Document Date _____

Additional Information

CAPACITY CLAIMED BY THE SIGNER

- Individual(s)
- Corporate Officer

(Title)

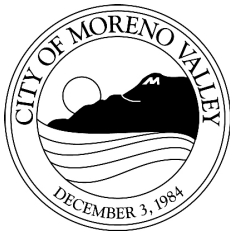
- Partner (s)
- Attorney-in-Fact
- Other _____

ADDITIONAL OPTIONAL INFORMATION

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be property completed and attached to that document. The only exception is if a document is recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they~~, ~~is/are~~) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - √ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - √ Indicate title or type of attached document, number of pages and date.
 - √ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: AUTHORIZATION TO AWARD AGREEMENT FOR PROFESSIONAL CONSULTANT DESIGN SERVICES TO ALBERT A. WEBB ASSOCIATES FOR THE EAST SUNNYMEAD BOULEVARD STORM DRAIN IMPROVEMENTS – PROJECT NO. 804 0006 70 77

RECOMMENDED ACTION

Recommendations:

1. Approve the Agreement for Professional Consultant Services with Albert A. Webb Associates, 3788 McCray Street, Riverside, CA 92506, to provide design services for the East Sunnymead Boulevard Storm Drain Improvements project.
2. Authorize the City Manager to execute the Agreement for Professional Consultant Services with Albert A. Webb Associates.
3. Authorize an issuance of a Purchase Order with Albert A. Webb Associates totaling \$126,815 when the Agreement has been signed by all parties.

SUMMARY

This report recommends approval of an agreement with Albert A. Webb Associates (Webb) for Professional Consultant Services to provide design services for the East Sunnymead Boulevard Storm Drain Improvements project. The project is funded with Community Development Block Grant (CDBG) funds and has been approved in the 2013/2014 Capital Improvement Plan (CIP).

DISCUSSION

The project includes the installation of an underground storm drain system in Sunnymead Boulevard, between Indian Street and SR-60/Perris Boulevard Eastbound Off-Ramp, which is to be connected to existing concrete open channel at the southeast corner of Sunnymead Boulevard and Indian Street. This section of Sunnymead Boulevard is within the Community Development Block Grant (CDBG) target area and eligible to receive CDBG funds. The purpose of the project is to mitigate the frequent flooding on Sunnymead Boulevard and minimize flood related damages to public roads and private properties, as well as enhance safety for pedestrians and drivers using Sunnymead Boulevard. The proposed storm drain includes a number of catch basins on both sides of the street which allows the system to effectively convey and discharge storm water runoffs during a storm event. Miscellaneous street improvements are also included in this project to accommodate the proposed storm drain.

In October 2013, the Notice Inviting Proposals and Request for Proposals (RFP) for Professional Consultant Design Services were sent to all the consultants that the City has on its list and also posted on the City's website. The City received seven (7) proposals in response to the RFP. A Selection Committee, comprised of City staff, reviewed and rated all proposals, according to the consultant's ability to complete the project requirements. The top ranking three firms were invited for interviews, followed by negotiations on scope of services and fees. Albert A. Webb Associates was selected as the most qualified consultant for this project since the firm demonstrates a very thorough understanding of the work and presents an ability to provide the required services on time and within budget.

The consultant is responsible for completing all survey, engineering, geotechnical and environmental work necessary to obtain storm drain easements, environmental clearances under the California Environmental Quality Act (CEQA), obtaining all required permits to connect storm drain to existing channel, preparing bid package for constructing the storm drain and related street improvements, and providing construction support services.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely design and construction of the East Sunnymead Boulevard Storm Drain Improvements.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay design and construction of the East Sunnymead Boulevard Storm Drain Improvements and result in the loss of CDBG funding.*

FISCAL IMPACT

This project is fully funded by Community Development Block Grant (CDBG) funds (Fund 2512) and included in the Fiscal Year 2013/2014 CIP. These funds are to be used for improvements in the CDBG target areas. There is no impact to the General Fund.

AVAILABLE BUDGET - FISCAL YEAR 2013/2014:

Community Development Block Grant Fund	
(Account No. 2512-70-77-80004 / Project No. 804 0006 70 77)	<u>\$800,000</u>
Total	\$800,000

ESTIMATED PROJECT-RELATED COSTS:

Design Consultant	\$127,000
Construction	\$593,000
Construction Surveying and Geotechnical Services.....	\$ 50,000
Project Administration and Inspection*	\$ 30,000
Total	\$800,000

**Includes City project administration, project management, printing, and other miscellaneous costs. City staff will provide the inspection for this project.*

ANTICIPATED PROJECT SCHEDULE:

Design	March 2014 - December 2014
Construction	January 2015 - June 2015

CITY COUNCIL GOALS

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

POSITIVE ENVIRONMENT:

Create a positive environment for the development of Moreno Valley's future.

ATTACHMENTS

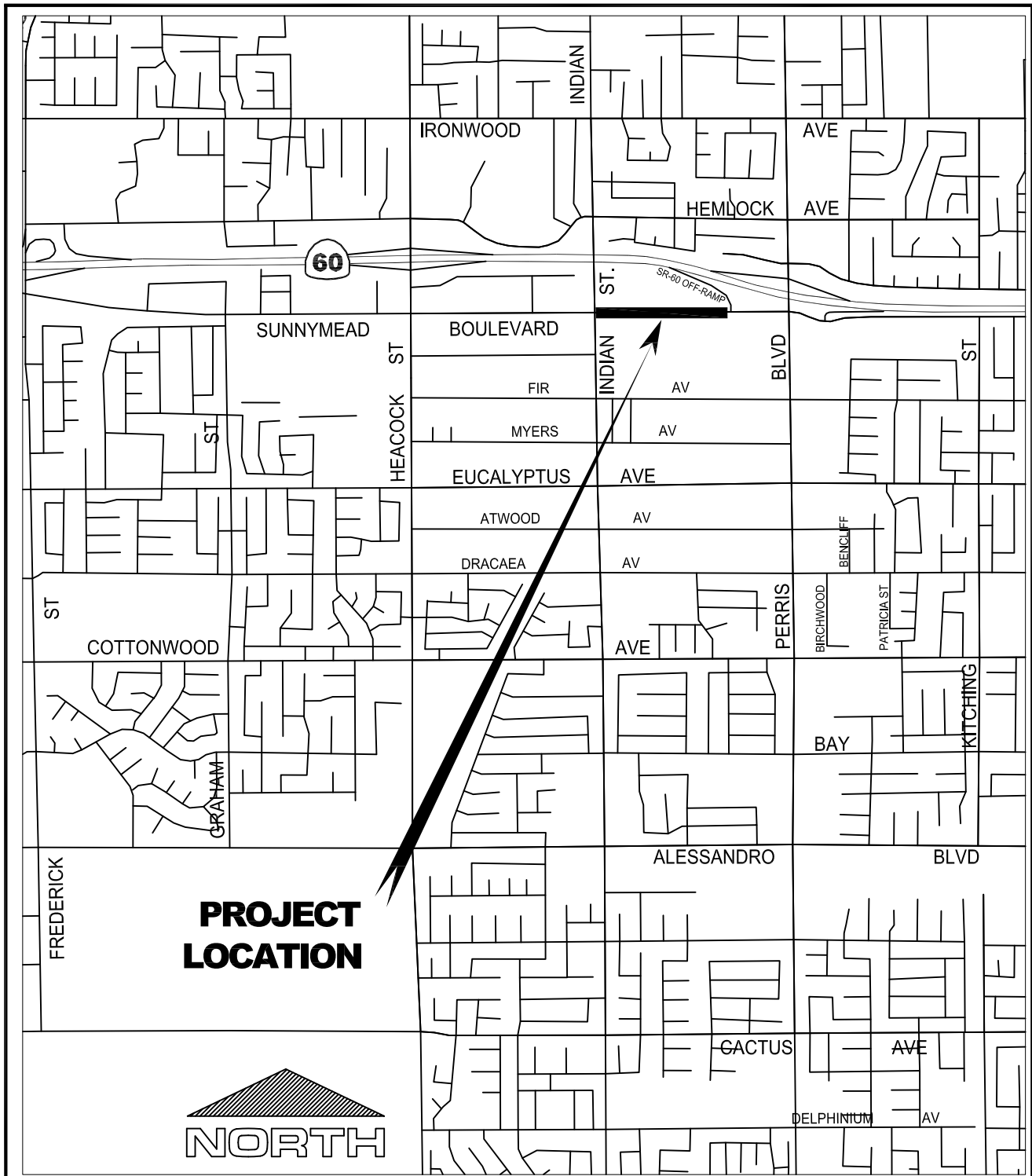
- Attachment 1: Location Map
- Attachment 2: Agreement for Professional Consultant Services with Albert A. Webb Associates

Prepared By:
Quang Nguyen, P.E.
Senior Engineer

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer

Concurred By:
John Terrell
Community and Economic Development
Director



**PROJECT
LOCATION**



LOCATION MAP

Public Works Department
Capital Projects Division

ATTACHMENT 1

EAST SUNNYMEAD BVD. STORM DRAIN
Indian St. to SR-60/Perris Bl. EB Off-ramp

PROJECT NO. 804 0006 70 77

This page intentionally left blank.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

This Agreement is by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and **Albert A Webb Associates**, a California corporation, hereinafter described as "Consultant." This Agreement is made and entered into effective on the date the City signs this Agreement.

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the work hereinafter described as "Project"; and

WHEREAS, the City has determined the Project involves the performance of professional and technical services of a temporary nature as more specifically described in Exhibit "A" (City's Request for Proposal) and Exhibit "B" (Consultant's Proposal) hereto; and

WHEREAS, the City does not have available employees to perform the services for the Project; and

WHEREAS, the City has requested the Consultant to perform such services for the Project; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional and technical services required for the Project;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

This Agreement is by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and **Albert A Webb Associates**, a California corporation, hereinafter described as "Consultant." This Agreement is made and entered into effective on the date the City signs this Agreement.

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the work hereinafter described as "Project"; and

WHEREAS, the City has determined the Project involves the performance of professional and technical services of a temporary nature as more specifically described in Exhibit "A" (City's Request for Proposal) and Exhibit "B" (Consultant's Proposal) hereto; and

WHEREAS, the City does not have available employees to perform the services for the Project; and

WHEREAS, the City has requested the Consultant to perform such services for the Project; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional and technical services required for the Project;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

DESCRIPTION OF PROJECT

1. The Project is described as professional consultant design services for:
**EAST SUNNYMEAD BOULEVARD STORM DRAIN FROM INDIAN STREET TO
SR-60/PERRIS BOULEVARD EASTBOUND OFF-RAMP**

Project No. 804 0006 70 77

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit "B" attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal shall take precedence over the Consultant's Proposal.
3. The City's responsibility is described on Exhibit "C" attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of **\$126,815** in accordance with the payment terms provided on Exhibit "D" attached hereto and incorporated herein by this reference.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

TERM OF AGREEMENT

5. This agreement will terminate on **June 30, 2016** unless the termination date is extended by an amendment to the agreement.

TIME FOR PERFORMANCE

6. The Consultant shall commence services upon receipt of written direction to proceed from the City.

7. The Consultant shall perform the work described on Exhibit "A" in accordance with the schedule set forth in Exhibit "E" attached hereto and incorporated by this reference.

8. The Consultant and the City agree that the schedule in Paragraph 7 above represents their best estimates with respect to completion dates, and both the Consultant and the City acknowledge that it will not unreasonably withhold approval of the Consultant's requests for extensions of time in which to complete the work required of the Consultant hereunder.

9. The Consultant shall not be responsible for performance delays caused by others or delays beyond the Consultant's reasonable control, and such delays shall extend the time for performance of the work by the Consultant. Delays caused by non-performance or unjustified delay in performance by a subconsultant of the Consultant are not considered to be beyond the Consultant's reasonable control.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

10 (a) The Consultant agrees that the personnel, including the principal Project manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

11. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

12. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

13. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement. Unless hereinafter specified,

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

neither party shall be responsible for the services of the other or any subcontractor or sub-consultant employed by the other party.

14. The Consultant shall comply with all applicable federal, state, and local laws in the performance of work under this Agreement.

15. To the maximum extent allowable by law, the Consultant agrees to indemnify, defend, and save the City, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the negligence or willful misconduct of the City, MVHA and CSD, their officers, agents or employees.

16. (a) The Consultant shall procure and maintain, at its sole expense, throughout the term of this Agreement and any extension thereof, Professional Errors and Omission Insurance coverage in the form and substance and with carriers acceptable to the City. Such coverage limits shall not be less than \$1,000,000 per claim and aggregate.

(b) During the entire term of this Agreement, the Consultant agrees to procure and maintain General Liability Insurance in form and substance and with carriers

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

acceptable to the City at its sole expense to protect against loss from liability imposed by law for damages on account of bodily injury, including death therefrom, suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Consultant its sub-consultant or any person acting for the Consultant or under its control or direction, and also to protect against loss from liability imposed by law for damages to any property of any persons caused directly or indirectly by or from acts or activities of the Consultant or its subconsultants, or any person acting for the Consultant or under its control or direction.

(c) Such General Liability Insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum limits provided below:

	<u>General Liability</u>
Bodily Injury	\$1,000,000 per occurrence
Property Damage	\$ 500,000 per occurrence

A combined single limit policy with aggregate limits in the amount of \$2,000,000 will be considered equivalent to the above minimum limits.

(d) If the operation under this Agreement results in an increased or decreased risk in the opinion of the City Manager, then the Consultant agrees that the minimum limits hereinabove designated shall be changed accordingly upon request by the City Manager.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

(e) The Consultant shall procure and maintain, at its sole expense, and throughout the term of this Agreement and any extension thereof, Public Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

(f) The Consultant shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for both the Consultant and the City, MVHA and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Consultant in the course of carrying out the Agreement.

(g) The City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents shall be named as additional insured on all policies of insurance except errors and omissions and worker's compensation.

(h) A Certificate of Insurance and appropriate additional insured endorsement evidencing the above insurance coverage shall be submitted to the City Clerk prior to the execution of this Agreement on behalf of the City.

(i) The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

"Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this general liability policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy."

(j) Insurance companies providing insurance hereunder shall be rated (A minus: VII - Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

(k) The terms of the insurance policy or policies issued to provide the above insurance coverage shall not be amended to reduce the above required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the said insurance is canceled,

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

the Consultant shall, prior to the cancellation date, submit to the City Clerk new evidence of insurance in the amounts established.

17. During the performance of this Agreement, the Consultant will not unlawfully discriminate against any employee or applicant for employment because of race, religion, creed, color, national origin, sex, or age. The Consultant will treat employees during employment without regard to their race, religion, creed, color, national origin, sex, or age.

18. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

19. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his/her designated representative, immediately upon request in both hard copy and electronic format, all documents, drawings, models, presentation materials, renderings, calculations, specifications, permits and permit-related documents, surveys, materials tests, geotechnical reports, etc., if available, developed to date for the City's project and any other City-provided documents, which shall become the property of the City for all purposes, which also includes the patent rights with respect to any discovery or invention which arises or is developed in the course of or under this Agreement, and copyrights. The Consultant may retain for its files, at its expense, copies of any and all materials, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement. It shall be understood that the City shall be the owner of all project-related documents and drawings at all times and during all phases of the project.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

The City reserves the right to ask for a hard copy and/or an electronic copy of the documents developed to date at any time during the period of this agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any, for professional services related to the City's project.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other projects without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

20. (a) The City may terminate this Agreement without cause on the part of Consultant by giving at least ten (10) days written notice to the Consultant. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

(b) Upon notice of termination, the Consultant shall deliver to the Public Works Director/City Engineer of the City or his/her designated representative, in both hard copy and electronic format, all documents, drawings, models, presentation materials, renderings, calculations, specifications, permits and permit-related documents, surveys, materials tests, geotechnical reports, etc., if available, developed to date for the City's project and any other City-provided documents, which shall become the property of the City. The Consultant may retain for its files, at its expense, copies of any and all materials, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement. It shall be understood that the City shall be the owner of all project-related documents and drawings, regardless of the completeness of said documents.

(c) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any, for professional services related to the City's project.

(d) The City agrees to hold the Consultant harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant. Consultant acknowledges that Consultant work product produced under this Agreement may be public record under State law.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

(e) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Consultant shall perform no further service(s) under the Agreement unless the notice of termination authorizes such further work.

21. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

22. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

23. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

24. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be otherwise required by law, such records will be available only to the City. Such records shall be maintained by the Consultant for three (3) years following completion of the services under this Agreement.

25. The City and the Consultant agree that, to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

26. The Consultant shall employ no City official or employee in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

27. Subject to the provisions of Section 19 (a) above, all plans, drawings, specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon demand by the City, be delivered to and become the property of the City for the limited use as set out above, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

28. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

29. If the funding source for this Agreement includes Federal funds, the following provisions must be complied with:

(a) Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60);

(b) the Copeland "Anti-Kickback" Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3);

(c) the Davis-Bacon Act (40 U.S.C. 276a to 276a-7) as supplemented by Department of Labor regulations (29 CFR Part 5);

(d) Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor regulations (29 CFR Part 5);

(e) Access by the grantee, the subgrantee, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions;

(f) Retention of all required records for three years after grantees or subgrantees make final payments and all other pending matters are closed;

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

(g) All applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15);

(h) Mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871);

(i) all requirements and regulations pertaining to reporting;

(j) in the case of occurrence of termination for cause, the City shall use all retained payments and any progress payments due for work completed before the termination to liquidate the Consultant's liability to the City. If the retained and unpaid amounts are insufficient, the City shall take steps to recover the additional sum from the Consultant.

SIGNATURE PAGE FOLLOWS

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0006 70 77**

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Albert A. Webb Associates

BY: _____
City Manager

BY: _____

Date

TITLE: _____
(President or Vice President)

Date

<p><u>INTERNAL USE ONLY</u></p> <p>APPROVED AS TO LEGAL FORM:</p> <p>_____ City Attorney</p> <p>_____ Date</p> <p>RECOMMENDED FOR APPROVAL:</p> <p>_____ Public Works Director/City Engineer</p> <p>_____ Date</p> <p>_____ Community & Economic Development Director</p> <p>_____ Date</p>

BY: _____

TITLE: _____
(Corporate Secretary)

Date

- Attachments:
- Exhibit "A" – City's Request for Proposal
 - Exhibit "B" – Consultant's Proposal
 - Exhibit "C" – City's Responsibility
 - Exhibit "D" – Terms of Payment
 - Exhibit "E" – Consultant's Schedule

W:\CapProj\CapProj\PROJECTS\Quang - 804 0006 70 77 - East Sunnymead Boulevard Storm Drain\Design Phase\Consultant - Agreement\Albert Webb Agreement - E. Sunnymead SD.doc



MORENO VALLEY
WHERE DREAMS SOAR

14177 FREDERICK STREET
P.O. BOX 88005
MORENO VALLEY, CA 92552-0805

TEL: 951.413.3100
WWW.MOVVAL.CA.GOV

October 1, 2013

Mr. Bruce Davis
Albert A. Webb Associates
3788 McCray Street
Riverside, CA 92506

Subject: Request for Proposal and Not-to-Exceed Fee for Professional Consultant Design Services for East Sunnymead Boulevard Storm Drain from Indian Street to SR-60/Perris Boulevard Eastbound Off-Ramp
Project No. 804 0006 70 77

Dear Mr. Davis:

The City of Moreno Valley is requesting a proposal for services and not-to-exceed fee for the subject project, in accordance with the Agreement for Professional Consultant Services for Design services.

Please refer to the enclosed Request for Proposal. Three (3) copies of your proposal and fee should be submitted to the City **before 5:00 p.m. on October 24, 2013**. Please forward your proposal and not-to-exceed fee to:

Quang Nguyen, Senior Engineer, P.E.
Capital Projects Division
14177 Frederick Street (*hand delivery*)
P.O. Box 88005 (*mail delivery*)
Moreno Valley, California 92552-0805

If you have any questions, please contact Quang Nguyen, Senior Engineer, P.E., at 951.413.3159.

Sincerely,

Quang Nguyen
Senior Engineer, P.E.

QN:zt

Enclosure: Request for Proposal

c: Project File

V:\Request for Proposal Letter - civil eng.doc

PUBLIC WORKS DEPARTMENT

**REQUEST FOR PROPOSAL
FOR PROFESSIONAL CONSULTANT DESIGN SERVICES**

**FOR EAST SUNNYMEAD BOULEVARD STORM DRAIN
FROM INDIAN STREET TO SR-60/PERRIS BOULEVARD EASTBOUND OFF-RAMP
PROJECT NO. 804 0006 70 77**

I. INVITATION

You are hereby invited to submit a Proposal for Professional Consultant Design Services associated with the East Sunnymead Boulevard Storm Drain from Indian Street to SR-60/Perris Boulevard Eastbound Off-Ramp.

Three (3) copies (one of the copies shall be unbound and paper clipped, with no tabs, holes, perforations, or cardboard inserts, suitable for copying with an automatic-feed copy machine) of your Proposal shall be submitted before **5:00 p.m., October 24, 2013**, addressed to City of Moreno Valley, Capital Projects Division, 14177 Frederick Street (hand delivery), P.O. Box 88005, Moreno Valley, California 92552-0805 (mail delivery), Attention: Quang Nguyen, Senior Engineer, P.E.

II. GENERAL PROJECT DESCRIPTION

The purpose of the project is to mitigate the frequent flooding on Sunnymead Boulevard and minimize flood related damages to public roads and private properties, as well as enhance safety for pedestrians and drivers using Sunnymead Boulevard. The project includes the installation of an underground storm drain system in Sunnymead Boulevard, between Indian Street and SR-60/Perris Boulevard Eastbound Off-Ramp, which will discharge to existing concrete open channel at the southeast corner of Sunnymead Boulevard and Indian Street. The work also includes the construction of numerous catch basins on both sides of the street which allows the storm drain system to convey storm water runoffs during a storm event. The project may also require the acquisition of easements for storm drain outlet connection and the reconstruction of miscellaneous street improvements including curb, gutter, sidewalk, access ramp and pavement to accommodate the new storm drain.

In March 2010, the City of Moreno Valley retained David Evans and Associates, Inc. to perform a Storm Drain System Alternative Analysis for this location. The Analysis was to address drainage issues and determine catch basin placement and size, connector pipe size, and the main lateral pipe size for a storm drain system that could adequately handle storm water run-off on Sunnymead Boulevard. David Evans and Associates proposed two (2) alternatives for a new storm drain system. Alternative 2 is the City's preferred alternative.

A copy of this Storm Drain System Alternative Analysis is available for review for proposal preparation purposes by contacting the Capital Projects Division at (951) 413-3130 or email: TechInfo-CapProj@moval.org.

As part of the scope of services for this project, the Consultant's first tasks are to thoroughly review said Storm Drain System Alternative Analysis and to validate the analysis (in writing) that it can be used for the consultant's design. However, the Consultant may propose to make necessary adjustments (subject to the City's review and approval in writing) to the analysis that could help in designing a more efficient and cost-saving/effective storm drain system in comparison to the system proposed by David Evans and Associates.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

III. PROJECT BUDGET AND SCHEDULE

The approved budget is \$800,000 which is to cover all costs (soft costs and hard costs) for the project. The City will fund the design and construction of this project with the Community Development Block Grant (CDBG) funds. The City will only be able to issue the Notice-to-Proceed to the Consultant to start the design once CDBG funding approval/authorization to proceed has been received from the U.S. Department of Housing and Urban Development (HUD). The City anticipates receiving an approval from HUD by end of December 2013.

The Consultant shall be required to meet or exceed the following timeline for this project:

Notice to Proceed:	January 2014
35% Plans Complete:	March 2014
Project Environmental Clearance Complete:	April 2014
Right-of-Way Engineering Complete:	April 2014
80% PS&E Complete:	April 2014
All Permits Complete and Approved:	May 2014
Right-of-Way Deeds Recorded by:	May 2014
100% PS&E Complete:	June 2014
Advertise and Award Construction Contract:	July – August 2014
Construction:	September – December 2014

IV. SCOPE OF SERVICES

The Consultant shall complete various tasks involved in planning, right-of-way engineering, right-of-way acquisition, permitting and environmental clearance, Plans/Specifications/Engineer's Estimates (PS&E) preparation, and bidding and construction support as shown, but not be limited to, in the list below. Be advised that the following is a general description of the scope of services. The Consultant shall anticipate any additional coordination or scope to meet the project goals and objectives in their proposal.

Phase 1: 35% Level Completion

The Phase 1 shall include, but not be limited to, the following tasks:

1. Attend the kick-off meeting, monthly PDT meetings, and other meetings with affected agencies, businesses or residents as required throughout the project duration. Prepare meeting agenda as required.
2. Review the Storm Drain System Alternative Analysis completed by David Evans and Associates, Inc. and validate the analysis for design, or propose to make adjustments to the analysis for a design of a more efficient and cost-saving/effective storm drain system.
3. Conduct field review and evaluate existing drainage patterns and facilities to obtain enough information for the design.
4. Perform survey and prepare base map, including field edits.
5. Evaluate all existing sidewalk, access ramp, and pavement surfaces within project limits for ADA compliance.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

6. Research and identify right-of-way and/or easement needs and prepare documents and right-of-way plan.
7. The 35% plans shall contain enough information to determine the required right-of-way.
8. Investigate existing utilities to identify any utility conflicts and coordination with utility owners to obtain adjustment and/or relocation, including preparing and mailing 1st Utility Notices to obtain as-built plans. The Consultant shall pothole all underground utilities to determine the location, depth for clearance, connection points, or conflicts for any underground improvements such as sewer lines, storm drains, gas lines, waterlines and other utilities.
9. Coordinate with all affected agencies, including Riverside County Flood Control and Water Conservation District (RCFC & WCD), Caltrans, RTA, etc.
10. Determine requirements for various permits necessary for the project.
11. Prepare, process, and file CEQA documentation and obtain environmental clearance.
12. Identify and evaluate all existing improvements within the project area that affect the proposed project scope of work.
13. Prepare construction traffic control plan/concept.
14. Complete Project Summary Memorandum for acceptance by the City.
15. Prepare 35% Plans based on the approved Project Summary Memorandum, with construction cost estimates.

Upon successful completion of the Project Summary Memorandum, 35% Plans, and acceptance of environmental documentation, the City may issue written authorization to proceed with Phase 2 or terminate the contract.

Phase 2: 100% Level Completion

The Phase 2 shall include, but not be limited to, the following tasks:

1. Prepare storm drain construction plans with submission for review at 80%, 100%, and final design at the Mylar stage.
2. Prepare Specifications with submission for review at 80%, 100%, and final design at the Mylar stage.
3. Prepare Engineer Estimates with submission for review at 80%, 100%, and final design at the Mylar stage.
4. Coordinate design plans, prepare and submit permit application to the RCFC & WCD for review and approval, and obtain the encroachment permit from the RCFC & WCD for storm drain connection.
5. Prepare and submit permit applications to all applicable agencies and coordinate to obtain all required permits.
6. Prepare right-of-way and/or easement documents as required, and coordinate and negotiate to obtain all required right-of-way and/or easements.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

7. The final PS&E shall be stamped and signed by the Design Consultant Civil Engineer, licensed to practice in the State of California, who supervised this project's PS&E preparation.
8. Prepare and submit Storm Water Pollution Prevention Plan (SWPPP) for approval in accordance with City requirements.
9. Prepare 2nd, 3rd and final utility notices and coordinate with utility companies for relocation of interfering utilities.
10. The Consultant shall provide an adjustment of final design plans and corresponding documents to reduce the scope of work to match available budget in accordance with City-specified priorities.

Upon City's approval of the PS&E, the City may issue written authorization to the Consultant to proceed with Phase 3 or terminate the contract.

Phase 3: Advertising, Bidding and Construction Support

The Phase 3 shall include, but not be limited to, the following tasks:

1. Provide responses to bidders' questions.
2. Prepare and issue addenda if required due to omissions or conflicts in the design at no additional charge to the City.
3. Assist City staff in evaluating and checking all bids per project requirements and established contract law, as well as checking references and licenses of bidders.
4. Draft City Council Staff Report for award of construction contract and process the contract agreement with the lowest responsible bidder.
5. Attend the City Council meeting for award of the contract, available to answer questions, and defend the project.
6. Answer questions regarding the Technical Provisions, the design drawings or conflicts in the design during bidding process and pre-construction meeting.
7. Be available to answer questions regarding the Technical Provisions, the design drawings or conflicts in the design during the construction, and assist in reviewing and issuing Contract Change Orders (CCO) required, due to omissions or conflicts in the design, at no additional charge to the City.
8. Incorporate all red-line comments prepared by the Contractor and project inspector and prepare final ink on Mylar "as-built" record plans. The as-built/record drawings shall be signed by the Engineer of Record and provided to the City for approval prior to the release of the final progress payment.
9. Prepare and submit GASB 34 documentation in the City's format along with the record drawings.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

DETAILED DESCRIPTIONS OF WORK ITEMS ARE AS FOLLOWS:

A. PROJECT SUMMARY MEMORANDUM

The Consultant shall prepare a Project Summary Memorandum, which is a shortened version of the City Project Report, and does not require signatures from all City departments. The Project Summary Memorandum shall be limited to a maximum of 10 pages. The Project Summary Memorandum shall include, but not be limited to, discussion of existing facilities, project objectives, validation of the previously mentioned Storm Drain System Alternative Analysis or proposed adjustments or other design alternatives, any design deficiencies and exceptions with justifications, geotechnical, environmental, right-of-way or easement needs, project costs, funding, and scheduling.

B. ENVIRONMENTAL

The Consultant shall identify all environmental concerns for the specific improvements and coordinate with the City and other applicable agencies for requirements to complete the environmental process. The City's Community and Economic Development Department, Planning Division, will make the environmental determination.

The Consultant shall perform all work and coordination, conduct and attend meetings, and prepare all environmental documents, special studies, reports, permit applications, and other materials to obtain environmental clearance through all applicable agencies for the project.

The environmental procedures shall be in compliance with CEQA requirements.

C. SURVEYING

The Consultant shall perform all surveys and survey-related services necessary for engineering design of specific proposed improvements, including, but not limited to:

1. Conduct street surveys, utility surveys, drainage facility surveys, boundary surveys, lot surveys, and property line surveys to obtain sufficient information for engineering design of the proposed improvements and right-of-way and or easement acquisition process if required.
2. Prepare topographic base maps containing all surface features and needed elevations. Topography shall include, but not be limited to, all features within the right-of-way and outside the right-of-way as needed to such limits that would provide adequate and accurate data for the design.
3. Establish uniform stationing on street centerline and storm drain line, increasing northerly and easterly.
4. Establish a minimum of two (2) temporary benchmarks on the project.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

D. AUTOCAD DRAWINGS

The topography map shall be set up with the following guidelines:

1. Drawing scale shall be: 1" = 20' or 1" = 40' horizontal and 1" = 2" or 1" = 4' for vertical profiles.
2. Lettering style shall be Arial and sizes shall correspond to standard scales. The latest City Title Block, which will be supplied by the City, shall be used.

E. GEOTECHNICAL

The Consultant shall perform all geotechnical services necessary for engineering design of specific proposed improvements, including but not limited to:

1. Perform subsurface exploration and analysis, including in-place moisture and density tests, laboratory maximum density and optimum tests, sieve analysis, R-value determination, direct shear tests, consolidation or collapse tests, and other required tests.
2. Review of existing geotechnical/geologic maps, reports or other related documents.
3. Provide geotechnical evaluation and recommendations on, including but not limited to, pipe bedding, trench backfill, pavement restoration design, environmental concerns, removal of unsuitable materials, etc.
4. Perform investigation on the existing pavement conditions to include pavement coring and soil borings and sampling. Pavement corings and soil samples in sufficient quantities shall be taken and tested to determine R values and structural pavement sections to be considered for the project.
5. Prepare field and final geotechnical reports and logs of exploratory borings and results of laboratory testing.
6. Prepare scale plans showing locations and identifications of the borings and other required geotechnical information.
7. All in-place/laboratory tests, sampling, and reports shall be performed and prepared in accordance with Caltrans and other applicable agency procedures, policies, regulations, requirements, and formats.
8. Potholes in paved areas shall be repaired per City Standard Plan No. 602, A through E; however, potholes within the proposed pavement construction area may be considered for an alternate repair treatment, at the discretion of the City.
9. It will be the responsibility of the Consultant to notify Underground Service Alert prior to the start of any subsurface exploration work. The Consultant shall submit a traffic control plan to the City for review and obtain a permit to

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

operate and conduct explorations within the public right-of-way.

10. The Consultant shall obtain all necessary permits to enter and construct on private properties from property owners, as required by the City, for all research such as surveying, geotechnical, and other design-related work.

F. RESEARCH OF RECORD INFORMATION

The Consultant shall perform all research of utility company, and other agency records as necessary to secure all the information, clearances, and/or plan review services required to identify, locate, and accurately layout all underground improvements and easements, centerline, right-of-way, property lines, curb and gutter, intersecting streets, cross gutters, and other ancillary items that may affect the project.

The City will provide copies of available pertinent City Records, such as survey ties, benchmarks, and street plans that the City knowingly has in its possession.

G. UTILITY COORDINATION

The Consultant shall contact all utility agencies providing service within the City and obtain utility maps and records for the project area. Field reviews to locate all surface utilities that are impacted by the project shall be performed. A summary of the research findings, anticipated conflicts, relocations or adjustments shall be included in the Project Summary Memorandum. Continuing coordination shall be performed up to the Notice to Relocate prior to construction.

The Consultant shall provide utility notices to all utility companies with facilities within the limits of the project, such as, but not limited to: Eastern Municipal Water District (EMWD), Southern California Gas Company, (GAS), Southern California Edison (SCE), Time Warner, and Verizon. Said notices will inform the utility of their need to relocate their facilities prior to construction or to adjust their facilities to grade after completion of the street paving.

The Consultant shall directly submit to **each utility company their required number of preliminary and final plan sets that provide the location, elevation of the utility, and the elevation of the improvement with the conflict area clouded to show the utility companies the areas that conflict.** The Consultant shall coordinate with the utilities for relocation of their facilities if required. The Consultant shall provide the utility companies with three (3) relocation notices. The City shall supply the Consultant with the required format for the utility notice in a Microsoft Word format. The Consultant shall be responsible to complete the document. The Consultant shall also be required to coordinate with the utility companies the scheduled relocation of the utilities prior to the start of construction.

The utility notices are as follows: 1st Utility Notice for City Improvements, Preliminary Project Notice; 2nd Utility Notice for City Improvements, Prepare to Relocate; 3rd Utility Notice for City Improvements, Notice to Relocate; and 4th Utility Notice for City Improvements, Notice to Relocate Immediately. The City will supply the Consultant with the required forms for the utility notices in a Microsoft Word format.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

The Consultant shall compose all utility letters and forms. The City will print the utility notices on City letter head and the Consultant shall pick-up and mail the letters, Certified, with Return Receipt requested back to the City. A copy of the Certified Mail article numbers shall be provided to the City within a few days of mailing. The Consultant shall document on the return receipt card the project number, project name, and name of the Consultant. The Consultant shall call the utility companies, as necessary, until a written response form is received from each potential conflicting utility.

The Consultant shall prepare and maintain a detailed utility coordination log that shall be updated on regular basis and be presented and discussed at Project Development Team (PDT) meetings.

The Consultant shall coordinate with the utility companies for the relocation of any of their facilities that conflict with the proposed improvements and continue coordination until the utility conflict is resolved.

H. UTILITY POTHOLING

The Consultant shall pothole, or engage a construction service to pothole, all underground utilities to determine the location, depth for clearance, connection points, or conflicts for any underground improvements such as sewer lines, storm drains, gas lines, waterlines and other utilities. The Consultant shall pothole at least an adequate number of water and sewer laterals at appropriate locations to establish an average lateral depth. The Consultant shall submit to each utility company a preliminary set of plans that provide the location and elevation of the utility with the conflict areas clouded to show the utility companies the areas of conflict with the proposed improvements. The potholing information and plan shall be submitted to the City after completion of that task. If an area of possible conflict was not potholed, the Consultant shall pothole the area to verify no conflicts, at no cost to the City.

Potholes in paved areas shall be repaired per City Standard Plan No. 602, A through E; however, potholes within the proposed pavement construction area may be considered for an alternate repair treatment, at the discretion of the City. Program Manager.

It shall be the responsibility of the Consultant to notify Underground Service Alert prior to the start of any subsurface exploration work. The Consultant shall submit for City Review a traffic control plan and obtain a permit to operate and conduct any potholing within the public right-of-way.

The Consultant shall obtain all necessary permits to enter and construction private properties from property owners, as required by the City, for all research such as surveying, geotechnical, and other design-related work.

I. RIGHT-OF-WAY

Additional right-of-way may need to be acquired and may include fee simple interest, permanent easements, temporary easements, and right of entries, which are collectively termed as right-of-way.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

The Consultant shall take the lead, coordinate, manage, and be responsible for comprehensive full service right-of-way acquisition services based on a "cradle to the grave" approach within the project timeline. These services shall include the following major elements:

1. Identify all needed right-of-way based on project alternatives in order to satisfy the "maximum public benefit with the least private injury" principle.
2. Perform utility easement research/coordination and identify all utilities that have prior rights.
3. Prepare all right-of-way related documents.
4. Provide title reports and/or litigation guarantees for each of the required easement.
5. Provide full-service appraisal services in conformance with the Uniform Standards of Professional Appraisal Practice (USPAP) and the Code of Professional Ethics of the Appraisal Institute and appraiser support during the acquisition process.
6. Provide comprehensive settlement negotiations and escrow services including preparation of all related documents until required deeds are recorded.
7. Coordinate eminent domain actions if required. If eminent domain should occur, the City and Consultant will negotiate the scope of services and fees.

The Consultant shall be responsible to ensure that all necessary right-of-way services are provided for the complete design of the project to meet all applicable Federal, State, and local requirements. The acquisition process shall be conducted in accordance with Caltrans procedures, California Civil Code, and the California Relocation Assistance law adopted by resolution of the City Council of the City of Moreno Valley on August 19, 1986, including any changes to state and federal law since the adoption.

The following is a list of services that may be needed over the course of the contract. This list is not intended to be all-inclusive, as other services may be required:

- a. Coordinate the preparation of site surveys relating to real properties that are required for public purposes.
- b. Identify the needs for new rights-of-way, permanent easements, temporary construction easements, and rights-of-entry. Conduct alternative analysis if necessary.
- c. Analyze title reports/cases, contracts, judgments, court records, and other documents to evaluate the legal status and effect upon title of various liens, restrictions, and encumbrances; perform research for all outstanding offers of dedication.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

- d. Prepare a separate right-of-way plan showing existing right-of-way, areas requiring acquisition, assessor's parcel numbers, zoning, owner's name, addresses, type of business, property lines, footprints of buildings, setback distances from right-of-way to buildings, vegetation, existing and proposed improvements in the taking areas, existing driveways, and easements across the property.
- e. Prepare offers, summary statements, contracts, agreements, leases, correspondence, deeds, re-conveyances, legal descriptions, plats, certificates of acceptance, and other instruments for each parcel acceptable to the City (and applicable utility companies) for conveyance of marketable title interests and for accurate representation of right-of-way necessary for construction of the project.
- f. Prepare all documents required for temporary construction easements and rights-of-entry.
- g. Prepare preliminary estimate of the market value of real property and prepare written reports.
- h. Consult with the necessary City departments regarding real property matters.
- i. Assist in preparing Staff Reports for City Council to authorize various right-of-way related matters such as authorization for negotiation, execution of purchase agreements, adoption of resolution of necessity, etc.; and make presentation at the City Council Meetings.
- j. Negotiate for purchase, lease, voluntary dedication or donation of real property.
- k. Provide staking as needed during the appraisal process and/or negotiation process to establish take area boundaries.
- l. Provide project improvements alternate analysis during right-of-way negotiations phase as necessary.
- m. Conduct regular status/coordination meetings during the right-of-way phase.
- n. Record documentation at the County Recorders Office.
- o. Provide independent review of property surveys, plats, and legal descriptions.
- p. Review draft appraisal reports for completeness and accuracy.
- q. Maintain records, databases, maps, deeds, and other documents.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

- r. Provide relocation assistance to occupants of real property acquired for projects.
- s. Conduct research at the County Assessors Office.

J. FORMAT FOR PLANS AND SPECIFICATIONS

1. The PS&E must conform to the City of Moreno Valley's standards and format. The Consultant shall provide clear, concise, and complete plans and profiles, which shall include, where applicable, the title sheet, street improvement, storm drain, traffic signal, striping and signing, traffic control, and detail and cross section plans. The scales for the plans are 1" = 20' or 1" = 40'. The City of Moreno Valley's standard title block shall be used for all sheets.

The Consultant shall indicate on the plans the stationing of all intersections, beginning and end of curves, and breaks in alignment. Survey monuments and monument wells shall be noted on the plans for preservation. Missing monuments shall be installed per City Standards. Monuments are to be placed in all street intersections, public and private. The setting or marking of the actual monuments shall be done under the direction of a licensed land surveyor at the end of construction, and a Record of Survey shall be filed with the County and copy shall be submitted to the City. These items must be quantified and shown in the PS&E. The Consultant shall note that the Contractor shall be responsible for replacing disturbed monuments or ties after construction is completed.

2. Street Improvement Plans shall include, but not be limited to: All existing surface improvements, driveways and entrances, edge of pavement, curbs, gutters, cross gutters, sidewalks, access ramps, mailboxes, landscaping, walls and fences, water valves and meters, fire hydrants, gas valves, sewer manholes, storm drain manholes, telephone manholes, electrical manholes, electrical cabinets, power poles, street lights, traffic loops, signs, catch basins and other storm drain facilities, utility lines (both underground and overhead), right-of-way and lot lines, and all other surface features that could be affected by the new construction within the project limits. Existing improvements shall be shown in a half-tone or dashed background format to distinguish them from the new improvements.

New improvements shall include, but not be limited to: Construction notes and legends, curbs, gutters, sidewalks, street drainage facilities, street lighting (where required), all facility or structure adjustments to be performed by the Contractor (including water valves and meters, gas valves, sewer manholes, storm drain manholes, telephone manholes, electrical manholes, etc.), street centerline and top of curb profiles, all relocations, all reconstructions or modifications, and all other proposed improvements shall be shown in full tone or highlighted with appropriate construction notes, detail references or standard plan references identified. All access ramps shall be upgraded to comply with the latest ADA standards. Construction notes shall be arranged such that the first notes are "protect in place" followed with

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

"removal" notes and end with the actual work. Notes of like work shall be grouped together.

3. Storm Drain Plan preparation shall include hydrology, hydraulic, and structural calculations in conformance with standards of the Riverside County Flood Control and Water Conservation District, with requirements for review and approval and channel connection permitting by the District. In the absence of standards by the District, Los Angeles County design standards may be considered.

The Consultant shall provide necessary plan and profile sheets with hydraulic grade lines, calculations for pipe sizing, detailing of connections, catch basins, lateral pipes, for all portions of the proposed drain or culvert.

The work shall include, but not be limited to: Determinations of water surface, hydraulic grade line (HGL), velocities, catch basin and lateral pipe sizing with structural "D" value determination, and all other calculations as required for a complete storm drain and/or culvert design.

4. Striping and Signing Plans shall include but not be limited to: Existing and proposed access ramp locations and types, curbs, driveways, existing and proposed street striping, street and sign legends, crosswalks, dimensions for traffic lane widths, traffic signal loops, and all other ancillary street markings and signing that may exist, or may be required to be placed or removed to complete the new traffic signal and associated street improvements. The signing notes, painted striping notes and thermoplastic marking notes are to be grouped together.
5. Traffic Control Plans shall address handling of traffic, long-term closures, and representative construction signage for the major elements in logical stages of the project construction and shall be in accordance with the latest California Manual on Uniform Traffic Control Devices (MUCTD) and/or Work Area Traffic Control Handbook (WATCH) Manual, as appropriate.
6. Detail Plans shall be provided where standard plans are not available or where specific dimensioning cannot be readily shown on the improvement plans or provided by description in the project specifications or as needed to insure project constructability.
7. All drawings shall be prepared with AutoCAD Land Development software or design software that is compatible with the Land Development software approved by the City. The design shall be plotted using permanent drafting ink on Mylar, and drafted on twenty-four inch by thirty-six inch (24" x 36"). The Consultant is required to put hanging file tabs on all Mylar sheets. The final Plans shall be signed by a Civil Engineer registered in the state of California. No "stick-ons" will be allowed.

The originals and the electronic data of these drawings are to be considered to be the property of the City at all times, and shall be submitted to the City, along with a CD-RW disk in AutoCAD Land Development format, upon

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

completion or as otherwise directed by the City. The electronic data shall also include all survey data and point information.

8. Specifications - The City will provide the Consultant with its boilerplate Specifications and General Technical Provisions in the current version of Microsoft Word for Windows format. The Consultant shall be responsible for compiling the project Specifications, signed by a Civil Engineer registered in the State of California, which is complete and ready for bidding purposes. The latest edition of the Greenbook (Standard Specifications for Public Works Construction and subsequent amendments) shall be used on the project, except for traffic signals, striping, and traffic signs. The technical portion of the Caltrans Standard Specifications shall be used for the traffic signals, striping, and traffic signs.

K. SUBMITTALS TO (CITY, AGENCIES, UTILITIES, ETC.)

1. The Consultant shall submit four (4) sets of bond copies of the design drawings with each submittal for checking to the City, along with the previous redlined check prints. The design drawings shall be as complete, accurate, and error-free as possible before plan checking is considered, in order to reduce the number of plan checks required and related costs therefore to the City and Consultant. Incomplete submittals may be rejected.
2. The Consultant shall submit two (2) sets of any reports, such as geotechnical and/or quantity calculations with each submittal for checking to the City, along with the previously checked reports. Two (2) sets of Project Summary Memorandum, signed by a Civil Engineer registered in the State of California, shall be submitted for checking.
3. The Consultant shall, at no cost to the City, correct errors, omissions, and unworkable and/or improper design/drafting on the original drawings, which are discovered subsequent to the completion of the plan checking process.
4. The Consultant shall submit three (3) sets of bond copies of cross sections along with each submittal of the design drawings for plan checking.
5. The City shall receive a copy of all transmittals, submittals, and letters sent to utilities and agencies regarding the project.

L. ESTIMATE OF QUANTITIES AND COST

The estimated quantities shall itemize all new, remodeled, reconstructed, relocated improvements, but not be limited to: Itemizing all removals, relocations, water pollution control, storm drain, mailboxes, earthwork, sub-grade preparation, cold milling, aggregate base, asphalt concrete (AC) paving, Portland Cement Concrete (PCC) sidewalk, PCC curb and gutter, driveway approaches, survey monument wells, raising manholes, water valve lids, traffic loops, painting of pavement legends and striping, signs, traffic control, raised pavement markers, and project signs. The estimated quantities shall be arranged in chronological order of construction and shall contain all the information necessary to prepare the Engineer's Estimate in the format specified by the City or associated agencies. The Engineer's Estimate and

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

bid schedule shall be broken out by funding source or as otherwise directed by the City.

Computations showing estimated quantities, costs, and sum totals shall be submitted to the City for review. Submission of computations does not relieve the Consultant's responsibility of submitting an accurate estimate of quantities. The Consultant shall, at the 35%, 80%, 100%, and Final Plan stages, submit estimated quantities calculated and listed by plan sheet, for review by the City. The Consultant's final construction cost estimate shall be based upon, and in agreement with, the final estimate of quantities.

M. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

The Consultant shall prepare a Storm Water Pollution Prevention Plan in accordance with either the San Jacinto Construction Activity Permit or the General Construction Activity Permit depending on the permit area of coverage. The Consultant shall prepare the Notice of Intent (NOI) and process the SWPPP for approval through the Regional Water Quality Control Board and other appropriate authorities and agencies.

N. COPIES OF CONTRACT DOCUMENT PACKAGE

The City will have copies of the Contract Document Package reproduced for distribution during bidding.

O. OWNER OF ORIGINAL DRAWINGS, DOCUMENTS, AND OTHER INFORMATION

The City will be the owner of all original drawings, documents, and digital information. All digital and or computer generated drawings shall be the property of the City and a copy shall be submitted to the City on a CD-RW disk.

P. PROJECT SCHEDULE

The Consultant shall prepare a project schedule and provide hard copies for reports and staff usage. The project schedule shall be updated regularly and handed out during the PDT meetings.

The project schedule shall be divided into tasks and subtasks in full detail showing their critical path for expeditious project completion. The schedule shall include, but is not limited to, planning, right-of-way acquisition, environmental clearance, permitting, design, advertising, construction, and any other applicable tasks. All the required time for project reviews and processing and associated agency and utility contacts and coordination shall be shown. Critical task items such as permit applications, environmental, City Council meetings, appraisals, negotiations, utility noticing, notices to proceed, notice of completion, as-built plan preparation, and GASB 34 documentation shall also be shown.

Q. PROJECT MEETINGS

The Consultant shall be responsible to schedule all necessary project meetings, prepare the meeting agenda, send invitation letters to required attendees, attend and

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

chair the meetings. At the conclusion of each meeting the Consultant shall prepare and distribute meeting minutes, within three (3) working days, to the satisfaction of the City. The project meetings shall include, but not be limited to:

1. Pre-Design (kick-off) meeting to including all sub-consultants, affected utilities, City staff, funding staff and other interested parties to the work.
2. Set and facilitate Project Development Team (PDT) meetings on a monthly (or higher frequency if necessary) basis.
3. Conduct right-of-way status and coordination meetings.
4. Conduct meetings with property owners and schedule City staff participation as needed.
5. Conduct meetings with affected stakeholders, utility companies, and other agencies as needed.
6. Conduct field meetings with City staff, residents, and utility representatives as required over the course of design.
7. The Consultant shall facilitate the bidding process and assure that all Federal, State and local contracting laws have been met.

V. CONSULTANT'S PROPOSAL AND COMPENSATION

The Consultant's Proposal shall be limited to no more than 30 pages. The page limits exclude a cover letter of up to two pages, resumes up to two pages per person, dividers, certificates, and appendices. Resumes, billing rates, project schedule, resource matrix, certificates, and other required forms shall be attached in the appendices. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the Request for Proposal will not be given further consideration.

At a minimum, the Proposal shall include the following sections:

- A. **Project Understanding:** This section should clearly convey clear understanding of the nature of the work, identification of major project issues, and proposed solutions thereof, from both the Consultant and the sub-consultants (consultant team).
- B. **Approach and Management Plan:** This section provides the consultant team's proposed approach and management plan for providing services. Include an organization chart showing proposed relationship among consultant team/staff as well as any other parties that may have significant role in the delivery of this project.
- C. **Qualifications and Experience:** Provide qualifications and experience of the team for this project. Emphasize the specific qualifications and experience from projects similar to this project for the key team members including references. Identify and provide in-depth information for the proposed project manager's qualifications, track record and relevant experience.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

- D. **Staffing Plan:** Discuss staffing plan, the workload, both current and anticipated, for all key team members, and their capacity to perform the requested services according to the proposed schedule. Discuss the firm/team's approach for completing the services required for this project within budget and schedule.
- E. **Work Plan and Schedule:** Include a description of how each task of the project will be conducted, identification of deliverables for each task and implementation schedule. The work plan should include sufficient detail to demonstrate a clear understanding of the project. Discuss the consultant team's approach for completing the project.
- F. **Quality Control and Assurance:** Discuss QA/QC proposed for each phase/deliverable for this project, including various independent plan check reviews and 95% plan biddability/constructability/claims avoidance reviews.
- G. **Additional Relevant Information:** Provide additional relevant information that may be helpful in the selection process (not to exceed two pages).

The Consultant's Proposal shall include the following statements:

1. A statement that this Request for Proposal shall be incorporated in its entirety as a part of the Consultant's Proposal.
2. A statement that this Request for Proposal and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and City Manager of Moreno Valley.
3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's Request for Proposal except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."
4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" containing a complete and detailed description of all of the exceptions to the provisions and conditions of this Request for Proposal upon which the Consultant's Proposal is contingent and which shall take precedent over this Request for Proposal for Professional Consultant Services.
5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses, telephone numbers and email addresses of the appropriate persons whom the City could contact. If one or more of the Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

6. A resource allocation matrix *must* be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns. The resource allocation matrix and the project design schedule are required of both the primary consultant, as well as any sub-consultant. Failure to do so will result in the Consultant's Proposal being deemed incomplete and it will not receive further consideration. The Title Reports shall be a separate line item under the right-of-way task.

The resource allocation matrix, in addition to any tasks the Consultant chooses to list, shall include but not be limited to meetings, Hydrology/Hydraulics Studies, Storm Water Pollution Prevention Plans, right-of-way investigations, As-Built Drawings, and GASB 34 documentation.

7. A rate schedule *must* be submitted with the Proposal. The rate schedule must list titles, names, roles, and hourly billing rates in rows. A statement that said hourly rate schedule is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred shall also be included. All extra work will require prior approval from the City.
8. A statement of sub-consultant's (include relief personnel) qualifications applicable to this project including the names, qualifications and proposed duties of the sub-consultant's staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses, and telephone numbers of the appropriate persons whom the City could contact.

A statement that the Consultant acknowledges and understands that the Consultant will not be allowed to change the sub-consultant without written permission from the City.

9. A statement that all charges for Consultant services is a "Not-to-Exceed Fee" which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.
10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.
11. A statement that the Consultant will immediately document and notify the City of any defects or hazardous conditions observed in the vicinity of the project site prior, during, or after the construction work.
12. A copy of the Consultant's hourly rate schedule and a statement that said hourly rate schedule is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this Request for Proposal. **An Itemized cost breakdown for the work described herein must be submitted in a separate sealed envelope as part of the Proposal submittal.** All extra work will require prior approval from the City.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

13. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.
14. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations the strictest shall be adhered to.
15. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.
16. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision" and State of California prevailing wage rates, respectively.
17. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.
18. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.
19. Complete "Disclosure of Lobbying Activities" (Form LLL – see attached).
20. Complete List of Subconsultants

VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

VII. FEDERAL EMPLOYEE BENEFIT

No member of, or delegate to, the Congress of the United States, and no Resident Commissioner shall be admitted to any share or part of the Agreement to the said project or to any benefit to arise from the same.

The Consultant shall complete and include the "Certification for Contracts, Grants, Loans, and Cooperative Agreements" and "Disclosure of Lobbying Activities" forms (attached) with the Proposal.

VIII. PAYMENT TO CONSULTANT

- A. This work is to be performed for a "Not-to-Exceed Fee."
- B. The Consultant shall provide a "Project Fee Schedule" indicating the fee for individual tasks with a "Not-to-Exceed Fee" which shall be the sum of all tasks by Part, phase, and milestone.
- C. Tasks shall include, but not be limited to, all Professional Consultant Services necessary to complete the work covered by this Proposal.
- D. **The City will pay the Consultant for work completed based on milestones completed and accepted by the City. These Milestones are:**
 - 1. Project Summary Memorandum complete.
 - 2. Environmental Clearance obtained.
 - 3. Phase 1, 35% Level Completion is complete.
 - 4. Phase 2, 100% Level Completion is complete.
 - 5. Legals/plats and appraisal reports are complete.
 - 6. Right-of-way negotiations and related services on a monthly basis.
 - 7. Project Bidding and Construction Support on a monthly basis.
 - 8. Any other additional authorized work on a task successfully completed and accepted basis.

The City shall make sole and final determination if a milestone as described above is complete and acceptable for payment.

- E. Invoices will specifically identify job title, person-hours, and costs incurred by each task.
- F. Reimbursement costs such as mileage, printing, telephone, photographs, postage and delivery, are to be included in the "Not-to-Exceed Fee."
- G. All tasks including labor and reimbursable costs such as printing, postage, and delivery shall have supporting documentation presented at the time payment is requested.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

- H. The City will pay the Consultant for all acceptable services rendered in accordance with the "Agreement for Professional Consultant Services."
- I. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the "Agreement for Professional Consultant Services," an "Amendment to the Agreement" will be executed between the City and Consultant.
- J. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant's errors or oversight.

IX. INSURANCE

- A. The Consultant shall provide Errors and Omissions Professional Insurance. Such coverage limits shall not be less than \$1,000,000 per claim and aggregate.
- B. The Consultant shall have Public Liability and Property Damage Insurance in the amounts as follows:

<u>GENERAL LIABILITY</u>		
Bodily Injury	\$1,000,000	per occurrence
Property Damage	\$ 500,000	per occurrence

A combined single limit policy with aggregate limits in the amount of \$2,000,000 will be considered equivalent to the above minimum limits.

- C. The Consultant shall have Public Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment in the amount of not less than \$1,000,000.
- D. The Consultant shall have Workers' Compensation Insurance in the amounts as will fully comply with the laws of the State of California.
- E. A Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

"Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents are included as additional insured under this general liability policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers and employees and agents, under any third party liability policy."

- F. Insurance companies providing insurance hereunder shall be rated (A minus: VII - Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

- G. The terms of the insurance policy or policies issued to provide the above insurance coverage shall not be amended to reduce the above required insurance limits and coverage's nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the Agency, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the said insurance is canceled, the Consultant shall, prior to the cancellation date, submit to the City Clerk new evidence of insurance in the amount established.
- H. It is the consultant's responsibility to ensure that all subconsultants comply with the following: Each subconsultant that encroaches within the City's right-of-way and affects (i.e., damages or impacts) City infrastructure must comply with the liability insurance requirements of the City. Examples of such subconsultant work include soil sample borings, utility potholing, etc.

The "Application for Encroachment Permit" form, including "Application for Encroachment Permit Liability Insurance Requirements," is available in the Capital Projects Division and must be completed and submitted in full to the City. It is the Consultant's responsibility to ensure that all subconsultants submit the appropriate encroachment permit and insurance documentation at the same time that the Consultant's insurance documentation is submitted.

X. INDEMNIFICATION

- A. To the maximum extent allowable by law, the Consultant, when functioning in the capacity of a design professional, agrees to indemnify, defend, and save the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.
- B. The consultant, when not functioning in the capacity of a design professional, agrees to indemnify, defend, and save the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims which arise from or are connected with the negligent performance of or failure to perform the work or other obligations of the Consultant under this Agreement, or are caused or claim to be caused by the negligent acts of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the sole negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.
- C. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

injuries to any person, including injury to the City's, MVHA's and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the negligence or willful misconduct of the Consultant, its officers, agents or employees.

XI. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

XII. INDEPENDENT CONTRACTOR

The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XIII. CONTRACT

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits.

The Political Reform Act and the City's Conflict of Interest Code require that consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIV. GENERAL CONDITIONS

- A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

- B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).
- C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XV. SELECTION CRITERIA

The Proposals will be rated/ranked according to the following criteria:

1. The Firm's General Experience and Qualification Information (20 points) – Information about the company (and all sub-Consultants) including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to provide the required services in an efficient and expeditious manner.
2. Experience of Key Personnel (40 points) – Background on key personnel (including all sub-consultants) qualifications, abilities, familiarity with state and federal procedures, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, and **proven track record and depth of understanding/knowledge of the proposed Design Consultant Project Manager, Construction Manager, and/or Inspector.**
3. Project Approach/Understanding (40 points) – **Understanding of project**, discussion of major issues identified on the project and how the Consultant team plans to address them; the management approach and organization necessary to complete the specific project; and outline quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of the project construction.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0006 70 77**

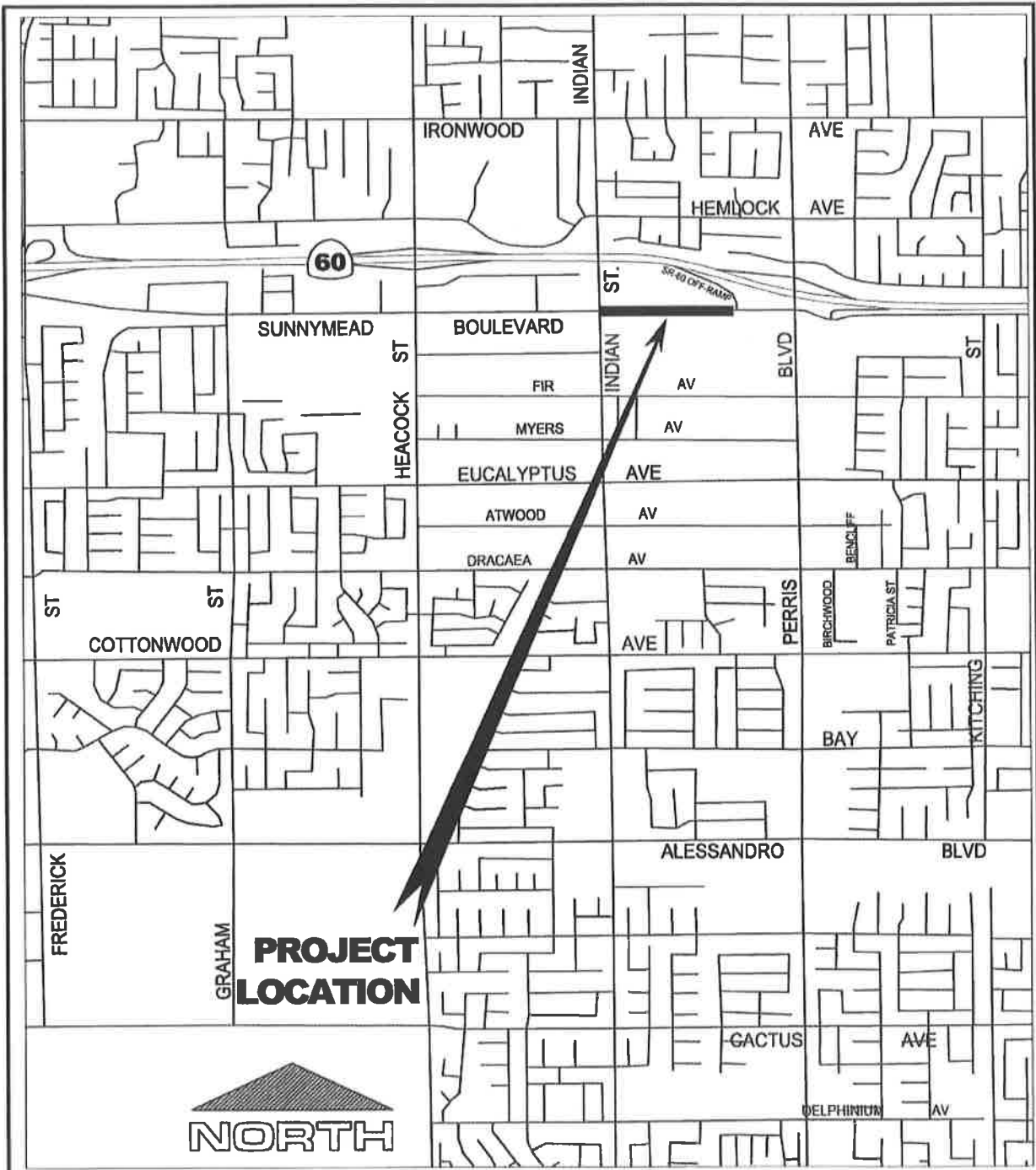
Attachments:

Attachment "A" – Location Map

Attachment "B" – City Standard Consultant Agreement (no changes to this agreement will be allowed)

W:\CapProj\CapProj\PROJECTS\Quang - 804 0006 70 77 - East Sunnymead Boulevard Storm Drain\Design Phase\Consultant -
RFP\RFP - E Sunnymead BI SD_Design.doc
Revised 10/1/2013

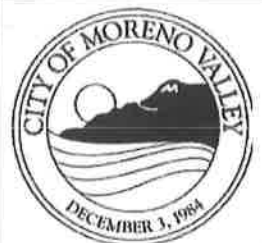
ATTACHMENT "A"



**PROJECT
LOCATION**



LOCATION MAP



Public Works Department
Capital Projects Division

**EAST SUNNYMEAD BLVD. STORM DRAIN
Indian St. to SR-60/Parris Blvd. Off-ramp
PROJECT NO. 804 0006 70 77**

ATTACHMENT "B"

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

This Agreement is by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and **Name of Consultant Firm**, a (California corporation, partnership, sole ownership), hereinafter described as "Consultant." This Agreement is made and entered into effective on the date the City signs this Agreement.

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the work hereinafter described as "Project"; and

WHEREAS, the City has determined the Project involves the performance of professional and technical services of a temporary nature as more specifically described in Exhibit "A" (City's Request for Proposal) and Exhibit "B" (Consultant's Proposal) hereto; and

WHEREAS, the City does not have available employees to perform the services for the Project; and

WHEREAS, the City has requested the Consultant to perform such services for the Project; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional and technical services required for the Project;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

DESCRIPTION OF PROJECT

1. The Project is described as professional consultant design services for:

NAME OF CONSULTANT FIRM

Project No. xxx xxxx xx xx

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit "B" attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit "C" attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of \$_____ in accordance with the payment terms provided on Exhibit "D" attached hereto and incorporated herein by this reference.

TERM OF AGREEMENT

5. This agreement will terminate on _____ unless the termination date is extended by an amendment to the agreement.

TIME FOR PERFORMANCE

6. The Consultant shall commence services upon receipt of written direction to proceed from the City.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

7. The Consultant shall perform the work described on Exhibit "A" in accordance with the schedule set forth in Exhibit "E" attached hereto and incorporated by this reference.

Or

7. The Consultant shall perform the work described on Exhibit "A" in accordance with the design/construction schedule as stated in the Notice to Proceed.

8. The Consultant and the City agree that the schedule in Paragraph 7 above represents their best estimates with respect to completion dates, and both the Consultant and the City acknowledge that it will not unreasonably withhold approval of the Consultant's requests for extensions of time in which to complete the work required of the Consultant hereunder.

9. The Consultant shall not be responsible for performance delays caused by others or delays beyond the Consultant's reasonable control, and such delays shall extend the time for performance of the work by the Consultant. Delays caused by non-performance or unjustified delay in performance by a subconsultant of the Consultant are not considered to be beyond the Consultant's reasonable control.

10 (a) The Consultant agrees that the personnel, including the principal Project manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

SPECIAL PROVISIONS

11. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

12. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

13. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement. Unless hereinafter specified, neither party shall be responsible for the services of the other or any subcontractor or subconsultant employed by the other party.

14. The Consultant shall comply with all applicable federal, state, and local laws in the performance of work under this Agreement.

15. To the maximum extent allowable by law, the Consultant agrees to indemnify, defend, and save the City, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the negligence or willful misconduct of the City, MVHA and CDS, their officers, agents or employees.

16. (a) The Consultant shall procure and maintain, at its sole expense, throughout the term of this Agreement and any extension thereof, Professional Errors and Omission Insurance coverage in the form and substance and with carriers acceptable to the City. Such coverage limits shall not be less than \$1,000,000 per claim and aggregate.

(b) During the entire term of this Agreement, the Consultant agrees to procure and maintain General Liability Insurance in form and substance and with carriers acceptable to the City at its sole expense to protect against loss from liability imposed by law for damages on account of bodily injury, including death therefrom, suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Consultant its sub-consultant or any person acting for the Consultant or under its control or direction, and also to protect against loss from liability imposed by law for damages to any property of any persons caused directly or indirectly by or from acts

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

or activities of the Consultant or its subconsultants, or any person acting for the Consultant or under its control or direction.

(c) Such General Liability Insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum limits provided below:

	<u>General Liability</u>
Bodily Injury	\$1,000,000 per occurrence
Property Damage	\$ 500,000 per occurrence

A combined single limit policy with aggregate limits in the amount of \$2,000,000 will be considered equivalent to the above minimum limits.

(d) If the operation under this Agreement results in an increased or decreased risk in the opinion of the City Manager, then the Consultant agrees that the minimum limits hereinabove designated shall be changed accordingly upon request by the City Manager.

(e) The Consultant shall procure and maintain, at its sole expense, and throughout the term of this Agreement and any extension thereof, Public Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

(f) The Consultant shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for both the Consultant and the City, MVHA and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Consultant in the course of carrying out the Agreement.

(g) The City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents shall be named as additional insured on all policies of insurance except errors and omissions and worker's compensation.

(h) A Certificate of Insurance and appropriate additional insured endorsement evidencing the above insurance coverage shall be submitted to the City Clerk prior to the execution of this Agreement on behalf of the City.

(i) The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

"Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this general liability

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy."

(j) Insurance companies providing insurance hereunder shall be rated (A minus: VII - Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

(k) The terms of the insurance policy or policies issued to provide the above insurance coverage shall not be amended to reduce the above required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the said insurance is canceled, the Consultant shall, prior to the cancellation date, submit to the City Clerk new evidence of insurance in the amounts established.

17. During the performance of this Agreement, the Consultant will not unlawfully discriminate against any employee or applicant for employment because of race, religion, creed, color, national origin, sex, or age. The Consultant will treat employees during employment without regard to their race, religion, creed, color, national origin, sex, or age.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

18. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

19. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his/her designated representative, immediately upon request in both hard copy and electronic format, all documents, drawings, models, presentation materials, renderings, calculations, specifications, permits and permit-related documents, surveys, materials tests, geotechnical reports, etc., if available, developed to date for the City's project and any other City-provided documents, which shall become the property of the City for all purposes, which also includes the patent rights with respect to any discovery or invention which arises or is developed in the course of or under this Agreement, and copyrights. The Consultant may retain for its files, at its expense, copies of any and all materials, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement. It shall be understood that the City shall be the owner of all project-related documents and drawings at all times and during all phases of the project. The City reserves the right to ask for a hard copy and/or an electronic copy of the documents developed to date at any time during the period of this agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any, for professional services related to the City's project.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other projects without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

20. (a) The City may terminate this Agreement without cause on the part of Consultant by giving at least ten (10) days written notice to the Consultant. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination.

(b) Upon notice of termination, the Consultant shall deliver to the Public Works Director/City Engineer of the City or his/her designated representative, in both hard copy and electronic format, all documents, drawings, models, presentation materials, renderings, calculations, specifications, permits and permit-related documents, surveys, materials tests, geotechnical reports, etc., if available, developed to date for the City's project and any other City-provided documents, which shall become the property of the

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

City. The Consultant may retain for its files, at its expense, copies of any and all materials, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement. It shall be understood that the City shall be the owner of all project-related documents and drawings, regardless of the completeness of said documents.

(c) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any, for professional services related to the City's project.

(d) The City agrees to hold the Consultant harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant. Consultant acknowledges that Consultant work product produced under this Agreement may be public record under State law.

(e) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Consultant shall perform no further service(s) under the Agreement unless the notice of termination authorizes such further work.

21. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

22. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

23. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

24. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be otherwise required by law, such records will be available only to the City. Such records shall be maintained by the Consultant for three (3) years following completion of the services under this Agreement.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

25. The City and the Consultant agree that, to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

26. The Consultant shall employ no City official or employee in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

27. Subject to the provisions of Section 19 (a) above, all plans, drawings, specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon demand by the City, be delivered to and become the property of the City for the limited use as set out above, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

28. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

29. If the funding source for this Agreement includes Federal funds, the following provisions must be complied with:

(a) Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60);

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

(b) the Copeland "Anti-Kickback" Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3);

(c) the Davis-Bacon Act (40 U.S.C. 276a to 276a-7) as supplemented by Department of Labor regulations (29 CFR Part 5);

(d) Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor regulations (29 CFR Part 5);

(e) Access by the grantee, the subgrantee, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions;

(f) Retention of all required records for three years after grantees or subgrantees make final payments and all other pending matters are closed;

(g) All applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15);

(h) Mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871);

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

(i) all requirements and regulations pertaining to reporting;

(j) in the case of occurrence of termination for cause, the City shall use all retained payments and any progress payments due for work completed before the termination to liquidate the Consultant's liability to the City. If the retained and unpaid amounts are insufficient, the City shall take steps to recover the additional sum from the Consultant.

SIGNATURE PAGE FOLLOWS

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. xxx xxxx xx xx**

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Name of Consultant Firm

BY: _____
City Manager

BY: _____

Date

TITLE: _____
(President or Vice President)

Date

<u>INTERNAL USE ONLY</u>
APPROVED AS TO LEGAL FORM:
_____ City Attorney
_____ Date
RECOMMENDED FOR APPROVAL:
_____ Department Head
_____ Date

BY: _____

TITLE: _____
(Corporate Secretary)

Date

- Attachments: Exhibit "A" – City's Request for Proposal
Exhibit "B" – Consultant's Proposal
Exhibit "C" – City's Responsibility
Exhibit "D" – Terms of Payment
Exhibit "E" – Consultant's Schedule

W:\CapProj\CapProj\BOILER\Consultant\Agreements & Amendments\Agreement Bollers - STANDARD\Boiler-SAMPLE -Agreement-Design with Milestones.doc

**CITY - SERVICES TO BE PROVIDED
TO CONSULTANT**

1. **Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.**
2. **Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.**
3. **Provide timely City staff liaison with the Consultant when requested and when reasonably needed.**

EXHIBIT "C"

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed \$_____.
2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml
3. The Consultant will electronically submit an invoice to the City for milestone payments along with documentation evidencing services completed to date. The milestone payment is based on actual time and materials expended in furnishing authorized professional services during the preceding period. The project milestones are identified in Section VIII titled "Payment to Consultant" of the City's Request for Proposal. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any milestone payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org. Accounts Payable questions can be directed to (951) 413-3073. Copies of invoices may be submitted to the Capital Projects Division at miab@moval.org or calls directed to (951) 413-3155.

EXHIBIT "D"

EXHIBIT "D"
PROJECT NO. 803 0021 70 77

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at:

http://www.moval.org/city_hall/forms.shtml#bf
5. The minimum information required on all invoices is:
 - A. Vendor Name, Mailing Address, and Phone Number
 - B. Invoice Date
 - C. Vendor Invoice Number
 - D. City-provided Reference Number (e.g. Project, Activity)
 - E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
6. The City shall pay the Consultant for all invoiced, authorized professional services within forty-five (45) days of receipt of the invoice for same.

Proposal to Provide
Professional Design Consultant Services for
East Sunnymeade Boulevard Storm Drain Project
from Indian Street to SR-60/Perris Boulevard Eastbound Off-Ramp



Project Number: 804 0006 70 77

Prepared for



January 7, 2014



Strength through History and Innovation



Corporate Headquarters

3788 McCray Street | Riverside, CA 92506 | T: 951.686.1070 | F: 951.788.1256

Desert Region

36-951 Cook Street #103 | Palm Desert, CA 92211 | T: 760.568.5005 | F: 760.568.3443

January 7, 2014

Mr. Quang Nguyen, Senior Engineer, PE
 City of Moreno Valley, Capital Projects Division
 14177 Frederick Street
 Moreno Valley, CA 92552

Dear Mr. Nguyen:

Our team at WEBB understands the purpose of this project is to mitigate the frequent flooding on Sunnymead Boulevard, to minimize flood related damages to public roads and private properties, and enhance safety for pedestrians and drivers using Sunnymead Boulevard. This project will include the installation of an underground storm drain system in Sunnymead Boulevard, between Indian Street and SR-60/Perris Boulevard Eastbound off-ramp, which will discharge to the Pigeon Pass Channel at the southeast corner of Sunnymead Boulevard and Indian Street. The work also includes the construction of numerous catch basins on both sides of the street which allows the storm drain system to capture storm water runoffs during a storm event. The project may also require the reconstruction of miscellaneous street improvements, and could require the acquisition of an easement for the outlet connection.

Our team is intimately familiar with the City of Moreno Valley because of successful projects completed over several years. We are very familiar with the project area and the specific requirements of this project. We have a great team of professionals with the knowledge, resources, experience, and time to provide the City with timely execution and a delivery of value like no other firm.

Critical Issues

Our team has identified the following critical issues in relation to the successful completion of this project:

- Runoff analysis and collection
- Coordination with RCFC&WC
- Traffic control and impact on local businesses
- Utility location and relocation
- Scope management and cost controls
- Environmental documentation
- Right-of-Way

Differentiators

In selecting the right consultant, the City wants to make sure they know what makes the WEBB team the absolute right choice for this project. With the collaboration of our firm and the City, this project in particular, will reap the benefits of:

- Experience in the design of large storm drain facilities with the City of Moreno Valley
- An excellent relationship and extensive experience with RCFC&WC design standards
- Design experience in commercial areas with heavy traffic
- A relationship and experience with Eastern Municipal Water District
- Ability to keep your project on schedule to meet the federal funding requirements

Continued on next page . . .

Project Team

The strength of our Project Team includes:

Joseph Caldwell, PE, CPESC, CPSQW, Project Manager, who has managed and designed nearly 100 storm drain projects in Riverside County, many of which have been in the City of Moreno Valley.

Bruce Davis, PE, Principal In Charge, who has over 25 years in the industry specializing in planning, design, and regional infrastructure projects similar to this project.

As you can see, WEBB is very excited to have the opportunity to work with the City on the preparation of the East Sunnymead Blvd. Storm Drain from Indian Street to SR-60/Perris Blvd project. We are committed to providing the highest quality assistance possible to the City and look forward to the opportunity to discuss our proposal and answer any questions you might have. I can be reached at (951) 686-1070.

Thank you very much for considering us to be part of your team.

Sincerely,



Bruce Davis, PE
Senior Vice President
Albert A. Webb Associates

East Sunnymead Boulevard Storm Drain Project

Table of Contents

Section 1	Project Understanding and Approach to Critical Issues	1
Section 2	Approach and Management Plan	3
Section 3	Qualifications and Experience	10
Section 4	Staffing Plan	16
Section 5	Work Plan and Schedule	17
Section 6	Quality Control and Assurance	19
Section 7	Additional Relevant Information	20
Appendix A	Key Personnel Resumes	A1
Appendix B	Sample Zero Sheet	B1

January 7, 2014



Corporate Headquarters
3788 McCray Street | Riverside, CA 92506
T: 951.686.1070 | F: 951.788.1256

Desert Region
36-951 Cook Street #103 | Palm Desert, CA 92211
T: 760.568.5005 | F: 760.568.3443

1 Project Understanding

Sunnymead Boulevard is a gateway entrance into the City of Moreno Valley from the 60 Freeway. During most storm events significant runoff from north of the freeway and from adjacent businesses causes localized flooding on Sunnymead Boulevard. Recent efforts to beautify Sunnymead Boulevard have not alleviated the persistent localized flooding between Indian Avenue and the off-ramp from the 60 freeway, approximately 1,900 feet to the east. The City is proposing to use Community Development Block Grant (CDGB) funds to install a storm drain and a series of catch basins to collect the localized runoff and convey it to the Pigeon Pass Channel located at the intersection of Sunnymead Boulevard and Indian Street. The City is seeking a consultant to design the appropriate storm drain system to alleviate flooding, properly document the environmental aspects of this facility, coordinate the relocation of conflicting utilities, and assist in the bidding and construction of this project.



East Sunnymead Boulevard existing storm drain.

Our team has spent an extensive amount of time reviewing and researching this proposal in order to allow the City the best opportunity to understand all the various complexities of this project. As part of the proposal preparation, we have identified several critical issues and have developed the following steps to address the issues:

Runoff Analysis and Collection – Key to this project is the proper analysis of storm flows tributary to Sunnymead Boulevard. How and where this flow will be collected is critical to the design of this project.

Based upon our initial review of the Alternative Analysis Hydrology there appears to be conservative assumptions

taken that overestimate the flow through the existing culverts that cross the freeway. A more refined analysis will likely result in the design of a smaller less expensive storm drain system in Sunnymead Boulevard. All catch basins and will need to be designed around existing driveways and other infrastructure. As part of our proposed scope, WEBB will evaluate the existing runoff that is tributary to the project area. WEBB will document this analysis in a Technical Memorandum that recommends design flows for the project. This will enable the placement of catch basins at proper locations throughout the project and provide the basis of design for the storm drain.

A more refined analysis will likely result in the design of a smaller less expensive storm drain system in Sunnymead Boulevard.

Coordination with RCFC&WCD – This project proposes to tie into an existing triple cell RCB in the intersection of Sunnymead Boulevard and Indian Avenue. Based upon our review of Riverside County Flood Control & Water Conservation District Records, the District does not currently own, operate or maintain the RCB upstream of the Pigeon Pass Channel. There is a gap in District maintenance that extends from Sunnymead Boulevard to just north of the 60 freeway. The Alternative Analysis calls for a 48” Storm Drain. This size of facility would typically be accepted by RCFC&WCD for operation and maintenance. Depending on the results of the Runoff Analysis the ultimate facility may be smaller than 39” and would be maintained by the City. Based upon ownership of the existing box culvert and the design size of the proposed storm drain, the facility may or may not require to be designed as a RCFC&WCD facility. It also may or may not require an encroachment permit from RCFC&WCD to construct. WEBB will research the construction of the Box Facility to determine what entity owns the facility. Additionally, based on the Runoff Analysis, WEBB will be able to determine if the storm drain will be maintained by RCFC&WCD or not. It is essential to determine these two things as early as possible in the design process so that proper standards and processing can be applied to this project.

Traffic Control and Impacts to Local Businesses – Sunnymead Boulevard is a heavily traveled arterial street. Construction of a storm drain in Sunnymead Boulevard will cause some disruption to traffic and local businesses. Because of this, it is essential that traffic control and construction sequencing be developed to minimize impacts to traffic and local businesses. WEBB has assigned *Dilesh Sheth, the Director of our Traffic and Transportation Department* to oversee the preparation and coordination of the traffic control plan for this project with the City. Dilesh's experience working with City staff on similar storm drain related traffic control plans within the City is a huge advantage for this project. Dilesh's knowledge of procedures and protocols will ensure that this project is constructed in a manner that impacts local businesses and traffic to minimal extent possible.

... it is essential that traffic control and construction sequencing be developed to minimize impacts to traffic and local businesses.

Utility Location and Relocation – Sunnymead Boulevard is a heavily traveled arterial road in a densely developed commercial area of the City. This street has several utilities within the pavement section, as well as within the parkway. Some of these utilities may be in conflict with the proposed storm drain design. Where possible, WEBB will develop a design that avoids conflict with existing utilities. However, in some cases, existing utilities may need to be relocated. Since utility relocation can be a very costly and a lengthy process, it is critical to evaluate the utilities that may require relocation as soon as possible in the design process. It is important to determine if the City has "prior rights" and can order the impacted utility purveyor to relocate the conflicting utility. In order to obtain utility information and utility relocation approvals, we have teamed with *C-Below, Inc.* and *Advanced Utility Design, Inc.* Both firms have extensive experience with local utility purveyors.

Scope Management and Cost Control – Controlling costs and staying on schedule are critical components of every project. For this project they are especially crucial since the design and construction will be funded through the CDBG Program. By managing the scope of work and budget, it is easier to control the schedule and deliver

a project that is on time and within budget. WEBB will do this through earned value tracking that can be linked to the project schedule. Using the detailed manhour estimate and project schedule, the monthly revenue for each task can be developed and tracked. This information is critical to the project to analyze where certain tasks are ahead or behind schedule based on the original schedule. This system can also be used to project trends that can show where a certain task is going out of budget. This can be used to determine if that task has effort that is out of scope so that these issues can be resolved before they become problems. WEBB will meet with the City every other month to review the scope management reports and assess the progress of the scope and budget. If it is necessary, this meeting can be done monthly.

Environmental Documentation – Almost every public works project requires proper CEQA documentation. Based upon our review, we believe this project qualifies for a statutory exemption as defined in the Public Resources Code §21080.21. This project is less than one mile in length in a public street and is the installation of a new pipeline and appurtenant surface structures. RCFC&WCD utilized this same approach in filing a Categorical Exemption for the nearby Sunnymead MDP Line P-6 Stage 2 Project. WEBB will coordinate with City staff to file a Notice of Exemption for this project. Since the project will be funded with CDBG funds, NEPA documentation is required. It is our understanding that City staff is taking the lead on the NEPA documentation.

Based upon our review, we believe this project qualifies for a statutory exemption as defined in the Public Resources Code §21080.21.

Right-of-Way – Right-of-way acquisition can be an extremely long process for a project, especially if the landowner from whom the property is being acquired is not supportive and cooperative of the proposed project. Based upon our review of the Alternative Analysis and our field walk, we believe that this project can be designed and constructed within the existing street right-of-way. As such we do not anticipate right-of-way acquisition will be required for this project. We have prepared our scope, budget, and schedule to reflect these cost and time savings for this project.

2 Approach and Management Plan

A. GENERAL

1. Meetings

As a minimum, WEBB will schedule and attend meetings in the planning phases as follows:

- a. Kickoff meeting including sub-consultants and agencies
- b. Project Development Team (PDT) meetings, monthly
- c. City Council Meeting/Council Study Session
- d. Field reviews, utilities, and meetings with individuals
- e. Right-of-way status meeting (if needed).

WEBB will schedule, chair, and prepare meeting agendas and minutes for all meetings. The agendas are to be submitted to the City for review five (5) working days before the meeting. The minutes shall be distributed to all attendees, everyone who was invited, and the City's Project Manager within five (5) working days after the meeting. The minutes shall include, but not be limited to, list of attendees with phone numbers and E-mail, synopsis of discussion items, any pertinent information, action items, and follow-up to action items.

2. Project Schedule

WEBB will develop the schedule for all three phases utilizing Microsoft Project®. The schedule shall be provided to the City in both digital and hard copy. An updated schedule is to be handed out during the PDT Meetings. The project schedule will be divided into tasks and subtasks in full detail including, but are not limited to, utility relocation (if needed), City function timeline, critical path, and other outside sources such as agencies or utilities. Some of the tasks shall be, but are not limited to, planning, environmental, utility potholing, utility relocation, design, relevant City Council meetings, RCFC&WCD review, advertising, and construction.

B. PHASE I – PLANNING, ENVIRONMENTAL, AND CONCEPTUAL DESIGN (35% COMPLETE)

1. Hydrology & Hydraulics Study Review & Refinement

WEBB will review the Storm Drain Alternatives Analysis Report prepared by David Evans and Associates for consistency with local standards and practices. Based on our preliminary review of the report, significant cost savings based on a smaller and less impactful pipe may be possible by further refining some of the conservative assumptions made in the Storm Drain Alternatives Analysis Report. WEBB has budgeted time adequate to evaluate this potential cost savings for the City.

2. Project Summary Memorandum

Using the City's format, WEBB will prepare a Project Summary Memorandum (maximum of 10 pages) which shall include, but not be limited to:

- Discussion of existing facilities
- Project objectives
- Discussion of proposed refinements to the Storm Drain System Alternative Analysis
- Any design deficiencies with justifications
- Geotechnical, Environmental, and Right-of-Way/Easement needs
- LID and ADA requirements
- Project cost
- Funding
- Scheduling

3. Environmental

3.1 CEQA Documentation

Based upon our review, we believe this project qualifies for a CEQA statutory exemption as defined in the Public Resources Code §21080.21. This project is less than one mile in length in a public street and is the installation of a new pipeline and appurtenant surface structures. RCFC&WCD utilized this approach in filing a Categorical Exemption for the nearby Sunnymead MDP

Line P-6 Stage 2 Project. WEBB will coordinate with City Staff to file a NOE for this project.

4. Survey and Topography Mapping

WEBB will perform all surveys necessary for the concept drawings and the design of the project.

The project is planning to install a storm drain in an existing paved street. To do so, it is necessary to obtain street sections detailing all topographical features and appurtenances every 50'. The field survey will include parking lot grades, sidewalk grades, ramps, parking spaces, trees, hedges, service cabinet, controller cabinet & foundation, pull boxes, traffic signal poles, underground vault, overhead line clearances and other items along the proposed alignment.

The plans will indicate the stationing of intersections and beginning or end of curves. Survey monuments and monument wells shall be noted for preservation and where missing installed per City Standards by the Contractor's land surveyor. The plans will include note that the Construction Contractor shall be responsible for replacing disturbed monuments or ties after construction is completed.

5. Existing Utilities Research

WEBB will conduct existing utility research for all utilities (underground, overhead, dry, wet) within the project limits to identify, locate, and accurately lay out all underground improvements.

WEBB will determine which utility is to receive notification, address the utility notification letters and provide the City with a copy of the letters. The City will print on City letterhead, mail to the respective utility and provide WEBB with a copy of the letter and response. The utility letters comprise of first utility notice letter (Preliminary Project Notice) with response form, second utility notice letter (Prepare to Relocate) with response form, third utility notice letter (Notice to Relocate), and fourth utility notice letter (Notice to Relocate Immediately) will be forwarded to WEBB. WEBB may also need to call the utility companies, as necessary, until a written response form is received from each potentially

conflicting utility.

WEBB will identify all utilities that could potentially conflict with storm drains, catch basins, and other improvements to determine special requirements for facilities including protection, relocation, right-of-way, easements, and construction. WEBB will coordinate with the utility companies to schedule the relocation of the utilities prior to the start of construction.

6. Utility Potholing

It is critical to pothole prior to the installation storm drain. As such, WEBB will pothole all underground utilities to determine the depth for clearance or conflicts for any underground improvements such as gas lines, telephone lines, electrical lines, sewer lines, water lines, storm drain lines, etc. WEBB will submit to each utility company a preliminary set of plans that provide the location, elevation of the utility, and the elevation of the improvement with the conflict area clouded to show the utility companies the areas of conflict with the proposed improvement. The potholing information and plan will be submitted to the City after completion of that task. If an area of possible conflict was not potholed, WEBB will pothole the area to verify no conflicts, at no cost to the City. Potholes will be backfilled per City Standard.

Based on review of recent Record drawings in the project area, WEBB believes it may be possible to pothole only approximately 5 potentially conflicting utilities. Should the City wish to pothole all utilities the proposed facility will cross, WEBB has estimated approximately 24 potholes will be necessary to fully insure no conflicts. For the purposes of this proposal, WEBB has assumed 10 potholes and provided a per-pothole price for each additional pothole required by the City.

It will be the responsibility of WEBB to notify Underground Service Alert and provide traffic control during potholing operation

7. Right-of-Way

WEBB also believes that there will not be a need for right of way acquisition for the project. WEBB will perform

basic right of way research to ensure the needed right of way are identified. The improvement plans will show existing property lines with all right of way and easement areas, assessor's parcel numbers, addresses, owners, and/or types of businesses.

- a. There may be a need for temporary construction easements. WEBB will prepare documents necessary for temporary construction easements.
- b. WEBB will identify all utilities that have prior rights.

8. Geotechnical Report

WEBB's geotechnical subconsultant, CHJ, will provide geotechnical engineering expertise necessary to insure a successful project delivery. CHJ will conduct a geotechnical investigation which, at a minimum, shall include:

- Perform subsurface exploration and analysis, including in-place moisture and density tests, laboratory maximum density and optimum tests, sieve analysis, R-value determination, direct shear tests, consolidation or collapse tests, and other required tests.
- Review of existing geotechnical/geologic maps, reports or other related documents.
- Provide geotechnical evaluation and recommendations on, including but not limited to, pipe bedding, trench backfill, pavement restoration design, environmental concerns, removal of unsuitable materials, etc.
- Perform investigation on the existing pavement conditions to include pavement coring and soil borings and sampling. Pavement corings and soil samples in sufficient quantities shall be taken and tested to determine R values and structural pavement sections to be considered for the project.
- Prepare field and final geotechnical reports and logs of exploratory borings and results of laboratory testing.
- Prepare scale plans showing locations and identifications of the borings and other required geotechnical information.

- All in-place/laboratory tests, sampling, and reports shall be performed and prepared in accordance with Caltrans and other applicable agency procedures, policies, regulations, requirements, and formats. Potholes in paved areas shall be repaired per City Standard Plan No. 602, A through E; however, potholes within the proposed pavement construction area may be considered for an alternate repair treatment, at the discretion of the City.
- It will be the responsibility of the WEBB to notify Underground Service Alert prior to the start of any subsurface exploration work. WEBB shall submit a traffic control plan to the City for review and obtain a permit to operate and conduct explorations within the public right-of-way.
- WEBB shall obtain all necessary permits to enter and construct on private properties from property owners, as required by the City, for all research such as surveying, geotechnical, and other design-related work.
- WEBB will submit two (2) geotechnical reports to the City

9. 35% Level Plans and Estimate

WEBB will prepare 35% level design plans showing proposed storm drain in plan and profile, catch basins, preliminary traffic control during construction, and connection details. WEBB understands the City desires the Riverside County Flood Control and Water Conservation District (District) to accept for maintenance and ownership any pipe larger than 36" in diameter. Depending on the recommended pipe size from the hydrology and hydraulic refinement discussed in Task 1, WEBB will prepare storm drain improvement plans either to District or City standard.

- WEBB will prepare preliminary cost estimate and submit to City for review.
- WEBB will submit four (4) sets of bond copies of the preliminary design drawings with each submittal for checking by the City, along with the previous red-lined check prints. WEBB will

perform quality control on all submittals. The design drawings will be as complete, accurate, and error-free as possible before plan checking is considered, in order to reduce the number of plan checks required and related costs therefore to the City and WEBB.

- WEBB will, at no cost to the City, correct errors, omissions, and unworkable and/or improper design/drafting on original drawings, which are discovered subsequent to the completion of plan checking process.

C. PHASE II – DESIGN (PS&E)

WEBB will commence work on Phase II (PS&E) Phase after written authorization to proceed from the City. The design will confirm to requirements of the City of Moreno Valley, District, and CAMUTCD (latest version).

1. 80% Improvement Plans

- a. Storm Drain Improvement Plans, Draft Estimate, Draft Specifications
- b. Temporary Traffic Control Plans – shall follow the CAMUTCD, latest version
- c. Utility Coordination - WEBB will submit to each utility company a set of 80% plans that provide the location and conflict area clouded to show the utility companies the areas that conflict. WEBB will coordinate and meet if necessary with the utilities for planning the relocation of their facilities if required.

2. 100% Improvement Plans

- a. Storm Drain Improvement Plans, Final Estimate, Final Specifications
- b. Temporary Traffic Control Plans – shall follow the CAMUTCD, latest version
- c. Utility Coordination - WEBB will submit to each utility company a final set of plans that provide the location and conflict area clouded to show the utility companies the areas that conflict. WEBB will coordinate and meet if necessary with the utilities for planning the relocation of their facilities if required.

During plan review with each submittal, pdf files of individual plan sheets will be submitted. The final design deliverables will include, but not be limited to: Providing Improvement Plans ink on Mylar ready for advertising and bidding, along with Specifications (including appendixes), and a complete Estimate, all wet seal stamp and signed by a licensed California Civil Engineer. The design will be in compliance with current Federal and State Americans with Disabilities Act (ADA) requirements, whichever is more restrictive.

WEBB will monitor quality on all deliverables, calculations, and other work products. WEBB will prepare a Quality Control Plan for use on the project, and submit a copy to the City within thirty (30) calendar days of Notice-to-Proceed. This is not a separate task, but shall be included as part of project management.

The Plans, Specifications, and Estimate will conform to the City of Moreno Valley's standards and practices. WEBB will provide clear, concise, and complete plans and profiles which will include, but are not limited to, the following items: project title; vicinity (location) map; title blocks; north arrows; scales 1 " = 20' for bridge and roadway improvements, nothing precludes the requirement to have drawings at a larger scale or larger scale for details); general notes; construction notes; construction legend; telephone numbers of utilities and other affected agencies and businesses; details; centerline profile; future north and south curb line profiles; existing improvements; power poles; driveway approaches; edge of pavement, water service relocation and/or installation; sewer manhole lid and water valve lid adjustment; pedestrian ramps; painting of traffic stripes and thermoplastic legends; signs; traffic signal; traffic loops (if any); curb returns; details of private improvements to be constructed, reconstructed, or relocated, such as driveways, fences, gates, irrigation systems, trees and landscaping; overhead utility lines; and other details that are of benefit to the design of the project.

AUTOCAD DRAWINGS

WEBB will follow AutoCAD drawings requirements outlined in the Request for Proposal (RFP).

The City will provide WEBB with its boilerplate Specifications and Technical Provisions in Microsoft Word format. WEBB will be responsible for compiling the Project Specifications including the project specific scope of work in the Technical Specifications and provide special Technical Provisions beyond the City's standard Technical Provisions. The Specifications will be signed by WEBB Civil Engineer registered in the state of California that is complete and ready for bidding purposes and awarding contracts for construction for the improvements. The latest edition of the Green book (Standard Specifications for Public Works Construction and subsequent amendments) will be used on the project, except for striping and traffic signs. The technical portion of the Caltrans Standard Specifications will be used for the striping and traffic signs.

Technical Provisions for the bridge improvements based upon Caltrans Standard Specifications dated, 2010 (latest imperial units' specifications) and the latest Caltrans Standard Special Provisions shall be incorporated into the City's bid documents. Specifications for the project shall conform to the most recent applicable standards and specifications from:

- a. City of Moreno Valley
- b. Standard Specifications for Public Works Construction (Greenbook, current edition)
- c. Riverside County Flood Control and Water Conservation District
- d. State of California Transportation Department Standard Specifications and Standard Plans (2010)
- e. WEBB will calculate the amount of liquidated damages using the City's formula and determine the length of time in working days for construction.

3. Coordinate with RCFC&WCD, Obtain Encroachment Permit

Based on preliminary research in the project area, the RCB culvert the project more than likely will tie into is owned by the City. Record drawings indicate the culvert was constructed by the California Division of Highways, thereafter quitclaimed in favor of the County of Riverside when the 60 freeway was expanded. When the City incorporated in the 1980s, the County of Riverside quitclaimed the culvert in favor of the City. Therefore, we do not anticipate an encroachment permit with the District will be required based on the preferred connection point. If, however, connection with the Pigeon Pass Channel (District Project # 4-0-200) is required, WEBB will coordinate with the District to obtain all necessary Encroachment Permits.

4. Storm Water Pollution Prevention Plan (SWPPP)

WEBB will prepare a SWPPP in compliance with with the California Construction General Permit, prepare an NOI for filing, and perform all necessary processing through the Regional Water Quality Control Boards.

5. Mylar Plans

One (1) reproducible and two (2) bond copies sets of the final improvement plans shall be submitted along with the final submittal of the design drawing.

6. LID Documentation

WEBB will provide written documentation for the project to ensure that it meets the LID requirements set forth in the MS4 Permit of which the City is a Co-Permittee.

D. PHASE III – CONSTRUCTION

1. Questions During Bidding

- a. WEBB will answer questions regarding the Technical Provisions, the design drawings or conflicts in the design during the bidding process and preconstruction meeting. WEBB will assist the City, at no charge, in preparation of Addenda regarding omissions or conflicts in the design.
- b. WEBB will assist the City in evaluating bids for completeness and consistency with the contract specifications.

Continued on next page . . .

- c. WEBB will assist the City in drafting a City Council staff report recommending the lowest qualified bidder for this project. WEBB will attend the City Council meeting to answer questions that the Council may have.

2. Pre-Construction Meeting

WEBB will attend the Pre-construction meeting and answer questions regarding the Technical Provisions and the design drawings during the meeting.

3. Construction

3.1. Questions During Construction

WEBB will be available to review design change request and assist the City in issuing Contract Change Orders. A line item is included in the proposal for design change request during construction.

WEBB will be available to answer questions regarding the Technical Provisions, the design drawings or conflicts in the design during the construction, and assist the City in issuing Contract Change Orders regarding omissions or conflicts in the design, at no charge to the City. Any design change due to errors/omissions, poor design, and/or unclear construction shall be at WEBB's own cost.

3.2. Preparation of As-Built Drawings

WEBB will incorporate all redline comments prepared by the Contractor and project Inspector on the signed design Plans. The as-built drawings shall be provided to the City and approved prior to the release of the final progress payment. WEBB will attach hanging file tabs to the Mylar as-built drawings. A line item shall be included in the proposal for as-built drawings.

3.3. GASB 34 Documentation

WEBB will submit GASB 34 documentation in the City's format along with the as-built drawings. A line item shall be included in the proposal for GASB 34 documentation.

3.4. Review of Contract Change Orders (CCOs)

WEBB will be available to answer questions regarding the Technical Provisions, the design drawings, or conflicts in

the design during construction, and assist in reviewing CCOs required.

Additional Directed Work (Optional) - In the event of unpredicted and unforeseen design conditions, the City may ask WEBB to add design work for the satisfactory completion of the project design. This Additional Directed Work is optional and its cost shall be negotiated between the City and WEBB. Approval by the City shall be secured before work is started



3 Qualifications and Experience

Success of this project is heavily weighed on the Project Manager. It is very important to assign the right Project Manager who has enough experience, is technically sound, manages resources well to complete the project on time and within budget, communicates with his team, and exceeds the City's expectations. We have chosen **Mr. Joseph Caldwell, PE, CPESC, CPSWQ** to serve as **Project Manager** for this project. Joseph has managed nearly 100 storm drain projects within Riverside County. Joseph has worked on previous projects for the City of Moreno Valley.

As the City's main point-of-contact, Joseph will focus on the project's critical path for its duration. This will include a strict adherence to the project schedule that will be developed and maintained at the project's onset. Joseph takes great pride in successfully managing projects to minimize delays and to address unforeseen issues that may impact the schedule.

In addition to strong project leadership, the City also needs a knowledgeable, experienced, and dedicated team for the duration of this project. Our assigned project team consists of senior level professionals who will perform the required

tasks for the City. By taking this hands-on approach, an experienced professional always has in-depth and intimate knowledge of each project task. This improves overall project management, reduces the opportunity for costly mistakes and delays, and allows our staff to provide very effective and efficient service to you.

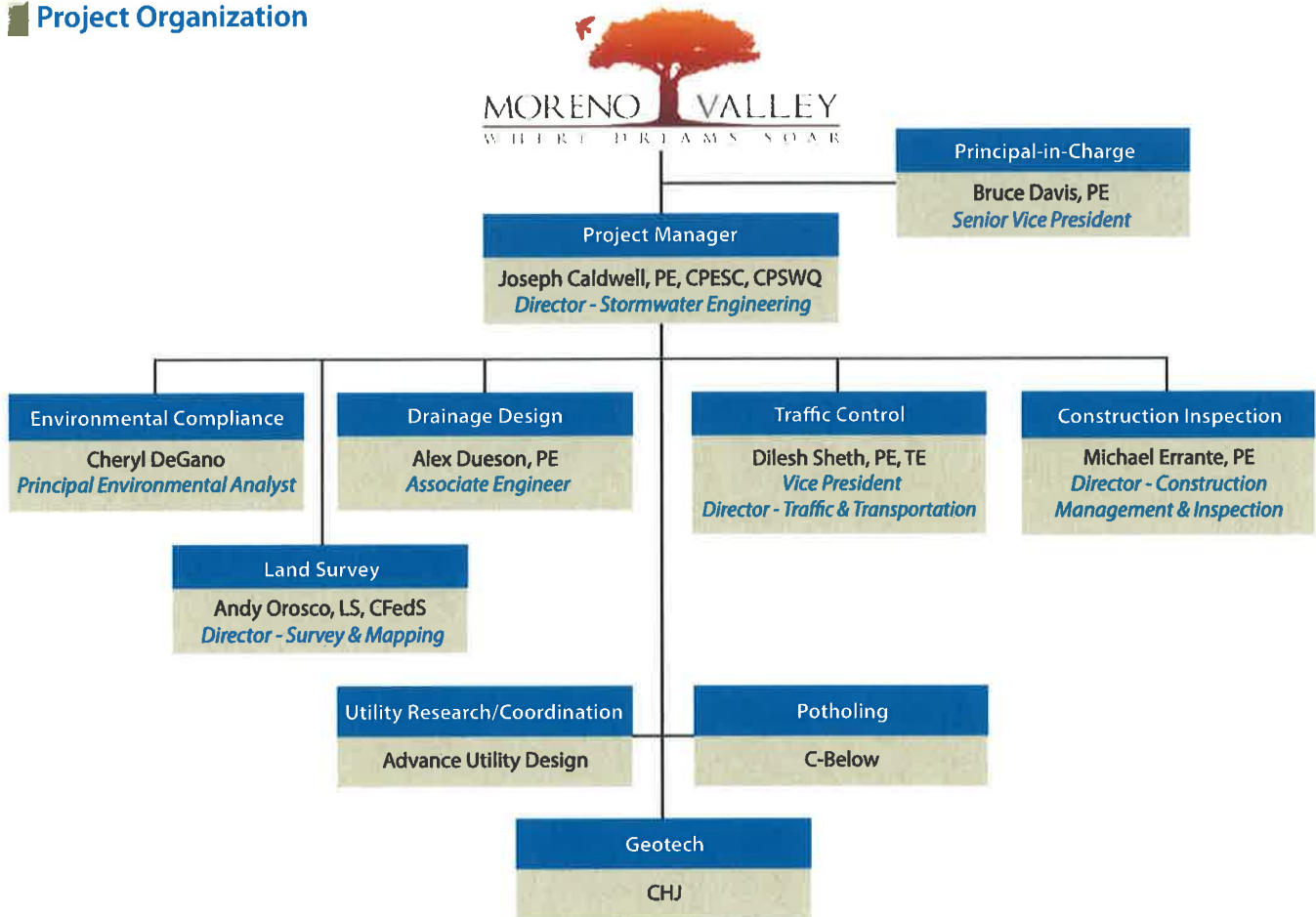
For this contract, **Mr. Bruce Davis, PE**, will serve as **Principal-in-Charge**, and will handle all contractual matters and advise the team. Bruce has over twenty-five years of experience working on projects for various cities and has served as the Principal-in-Charge for literally hundreds of planning, design, and regional infrastructure projects similar to this project. His in depth technical and professional experience will be an asset to this project.

Our highly qualified staff members are shown in the following qualifications table and organization chart. We have also provided resumes for our key project personnel in **Appendix A. Project Team Resumes**.

Any proposed changes in key personnel shall be submitted in writing for review and approval by the City.




Key Personnel Qualifications				
Mr. Joseph Caldwell, PE, CPESC, CPSWQ Director - Stormwater Engineering	Project Manager	Years Experience: 12 Years with WEBB: 12	Area of Expertise: Drainage Design Registration: PE C67239	
Mr. Bruce Davis, PE Senior Vice President	Principal-in-Charge	Years Experience: 26 Years with WEBB: 26	Area of Expertise: Public Works Infrastructure Registration: PE 47200	
Mr. Dilesh Sheth, PE, TE Vice President & Director - Traffic & Transportation	Traffic Control	Years Experience: 19 Years with WEBB: 13	Area of Expertise: Traffic & Transportation Registration: PE 65078 TE 2112	
Mr. Alex Deuson, PE Associate Engineer	Drainage Design	Years Experience: 6 Years with WEBB: 1	Area of Expertise: Drainage Design Registration: PE 81608	
Ms. Cheryl DeGano Principal Environmental Analyst	Environmental Compliance	Years Experience: 25 Years with WEBB: 12	Area of Expertise: Environmental CEQA/NEPA & Regulatory Compliance	
Mr. Michael Errante Director - Construction Management & Inspection	Construction Inspection	Years Experience: 25 Years with WEBB: 1	Area of Expertise: Construction Management & Inspection	
Mr. Andy Orosco, LS, CFedS Director - Land Survey	Land Survey	Years Experience: 37 Years with WEBB: 3	Area of Expertise: Land Survey Registration: LS 5491	

Project Organization



Subconsultants

To supplement WEBB's in-house technical staff, we will partner with the following subconsultants which we work with regularly.

<p>Geotech</p>  <p>C.H.J. Incorporated</p>	<p>CHJ, Inc. has performed thousands of geotechnical investigations since 1964. Subsurface investigations are performed with the aid of a tractor-mounted backhoe or a truck-mounted drill rig by Staff Geologists who are supervised by Professional Geotechnical Engineers and Certified Engineering Geologists.</p>
<p>Utility Potholing</p>  <p>C-BELOW SUBSURFACE IMAGING</p>	<p>C-Below specializes in subsurface imaging including utility locating, ground penetrating radar (GPR), and radiography. C-Below is a certified SBE and will be providing potholing services for our team.</p>
<p>Utility Research/Coordination</p>  <p>ADVANCE UTILITY DESIGN</p>	<p>Advance Utility Design, Inc. specializes in dry utility design, planning and engineering which consists of electric, telephone, fiber optics, cable television and natural gas distribution systems. Advance Utility has established itself as a leading dry utility design firm within the state of California</p>

Project Experience



Indian Avenue Street Widening and Drainage Infrastructure Improvements (Lateral B-3) *Moreno Valley, California*

SPECIFIC QUALIFICATIONS

- Storm Drain Design
- Utility Coordination
- Traffic Control

Client Contact

Mr. Prem Kumar, City Engineer
City of Moreno Valley
951.413.3116

Completion Date

2008

This project consisted of widening the roadway from two to four lanes, landscape improvements, water quality treatment, and included the design of over 6,000 feet of backbone drainage infrastructure for the City of Moreno Valley. These facilities will be constructed as part of CFD No. 7 under the direction of the City. WEBB's responsibilities included the update of master plan hydrology, storm drain design, utility relocation, traffic control coordination, contract document preparation, and construction assistance.

WEBB completed the design and contract documents in approximately seven months in order to meet the funding schedule set forth by the City of Moreno Valley. The project included widening of roadway from two lanes to four lanes, construction of approximately 6,000 feet of Master Plan storm drain for the City, construction of landscape improvements, a water quality treatment control system for the street runoff prior to flows entering into the Perris Valley Storm Drain, traffic signal modification, traffic signal coordination, and traffic control also had to be coordinated for review and approval by both cities.



Hemet MDP Line C, Stage 4 *Hemet, California*

SPECIFIC QUALIFICATIONS

- Flood Protection
- Storm Drain Design
- Utility & Traffic Coordination

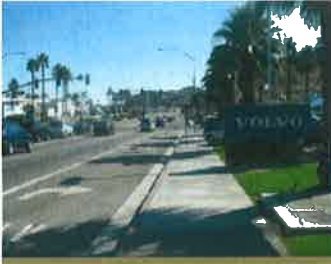
Client Contact

Mr. Don Delgadillo
Engineering Project Manager
Riverside County Flood Control &
Water Conservation District
951.955.4683

Completion Date

2014

The extension of the Hemet MDP Line C is an important component to provide surface flooding relief and flood protection of a predominately developed portion of the City of Hemet. This segment of the Master Plan Facility represents the middle one-third of the entire Line C system. However, the Master Drainage Plan that was developed in 1977 does not include current conditions. Since the time of the 1977 MDP development, several changes have occurred. Additional residences have been constructed that will require access during construction, additional utilities have been constructed within a limited pavement width, and intersections have been reconstructed that may have changed runoff patterns. Not to mention the changes in rainfall values. Recognizing these constraints, WEBB is currently designing 6,600 lineal feet of an underground storm drain with corresponding appurtenance structures. This project will outlet into the Riverside County Flood Control and Water Conservation District's existing Whittier Storm Drain, Stage 3 facility just east of Palm Avenue. Our team is designing connections to this existing storm drain.



Palm Springs MDP Line 43 and Lateral 43-A
Cathedral City, California

SPECIFIC QUALIFICATIONS

- Drainage Improvements
- Coordination with Businesses
- Minimize Impacts

Client Contact

Mr. Mekbib Degaga
Engineering Project Manager
Riverside County Flood Control
& Water Conservation District
951.955.4683

Completion Date

2011

The completion of the Line 43 and Lateral 43-A is an important component to the flood protection that the Eagle Canyon Dam will provide to this portion of Cathedral City. This Master Plan facility is the main link from the proposed dam to the West Cathedral Canyon Channel. However, as is the very nature of master planning these types of facilities, the criteria used to establish facility type and location are subject to changes over time. This is definitely the case with Line 43 and Lateral 43-A. Since the time that the Master Plan was developed in 1982, several changes have occurred in the area. Some of these changes include the construction of new businesses, the removal of other businesses, and the re-designation of Highway 111 from a state highway to a local highway. Not to mention the changes in rainfall values. Recognizing these changes, WEBB evaluated alternative alignments to prepare a Project Design Report.

What makes this project unique is its location within a major commercial area within the City of Cathedral City. Not only is the area subjected to heavy traffic volumes, but that heavy traffic volume is vital to the commercial business. Therefore, any alternative selected must not only consider the economics of the storm drain construction, but also the potential economic impact to the surrounding business.



University Wash Storm Drain Project
Riverside County, California

SPECIFIC QUALIFICATIONS

- Drainage Improvements
- Coordination with Businesses
- Minimize Impacts

Client Contact

Mr. Mekbib Degaga, Senior Engineer
Riverside County Flood Control
and Water Conservation District
951.955.4683

Completion Date

2013

The University Wash Storm Drain Project included the planning, analysis, and design of a large diameter Master Plan Storm Drain that connects existing upstream and downstream facilities together. This project was unique in that the 2,450 LF - 90" RCP required for this project had to be designed to maneuver its way through a developed industrial groundwork of the City. Key to this project was the coordination with local businesses to ensure that construction of the storm drain minimized impacts to business operations.



Perris Boulevard Street and Storm Drain Improvement Project

Moreno Valley, California

SPECIFIC QUALIFICATIONS

- Street improvements
- Drainage improvements
- Traffic signal improvements

Client Contact

Mr. Prem Kumar
Assistant City Engineer
City of Moreno Valley
951.413.3108

Completion Date
2008 (Construction)

WEBB provided planning, environmental, design, and construction services for this multi-faceted infrastructure project that involved the City of Moreno Valley, City of Perris, and the Riverside County Flood Control and Water Conservation District. WEBB designed approximately 3,500 linear feet of Perris Boulevard widening and reconstruction, which required review and approval by the City of Moreno Valley and City of Perris. WEBB designed approximately 1,000 linear feet of 10'X6' RCB master plan storm drain which was connected to Perris Valley Storm Drain Lateral "B". WEBB obtained permits from Army Corps and California Fish & Game. WEBB also prepared water, sewer, traffic signal, signing & striping plans, and traffic control plans. Perris Boulevard's vertical profile was raised with the project. WEBB prepared traffic control options for the street and storm improvement project and was able to keep Perris Boulevard open during the construction. During project construction WEBB coordinated biological monitoring as required by the Section 1602 Streambed Alteration Agreement for the project and coordinated archaeological monitoring as required by the MMRP.



Lower Etiwanda Creek

Ontario, California

SPECIFIC QUALIFICATIONS

- Utility
- Environmental & Permitting
- FEMA
- Heavy Civil
- Flood Channel Design
- R/W Acquisition

Client Contact

Mr. Khoi Do, Principal Engineer
City of Ontario
909.395.2127

Completion Date
2011

WEBB was involved in all facets of the Lower Etiwanda Creek Channel Project which included the natural channelization of approximately 3,500 feet of Lower Etiwanda Creek. This project not only included the implementation of a regional master planned facility, it required close coordination with multiple jurisdictions, including the City of Ontario, The City of Rancho Cucamonga, San Bernardino County Flood Control District and the California Department of Transportation all of whom had various interests in the project. The channel design included a landscaped earthen channel system that provided habitat restoration and water quality benefits. A CLOMR and LOMR were processed through FEMA to properly reflect the floodplain reductions provided by this project. Finally permits were processed through the various resource agencies in order to construct the channel improvements.

Client References

WEBB's reputation for superior quality work, integrity, and long-standing client relationships is a direct result of our industry proven capabilities and experience. We are proud of the name WEBB, as it has become synonymous with experience and customer service. We encourage you to contact our clients regarding our commitment to exceeding client expectations. The following references highlight clients and comparable projects and services WEBB has provided within the last five years.

REFERENCES	
Client	Project
Mr. Prem Kumar, City Engineer, 951.413.3116 City of Moreno Valley	Indian Avenue Street Widening and Drainage Infrastructure Improvements (Lateral B-3)
Mr. Bob Cullen, Chief-Design & Construction, 951.955.4683 Riverside County Flood Control & Water Conservation District	Hemet MDP Line C, Stage 4 Hemet, CA
Mr. Mekbib Degaga, Senior Engineer, 951.955.4687 Riverside County Flood Control & Water Conservation District	Palm Springs MDP Line 43 and Lateral 43-A Cathedral City, CA
Mr. Mekbib Degaga, Senior Engineer, 951.955.4687 Riverside County Flood Control & Water Conservation District	University Wash Storm Drain Project Riverside County, CA
Mr. Prem Kumar, Assistant City Engineer, 951.413.3108 City of Moreno Valley	Perris Boulevard Street and Storm Drain Improvement Project, Moreno Valley, CA
Mr. Khoi, Principal Engineer, 909.395.2127 City of Ontario	Lower Etiwanda Creek Ontario, CA

4 Staffing Plan

Key Team Member Availability

WEBB has reviewed our current and anticipated workload for all key team members, and their capacity to perform the requested services according to the proposed schedule. In the table below, we have summarized each team members' availability to commit to working on the City's project and abiding to the schedule and taking account of existing and anticipated projects.

Anticipated Available Time (Including existing and anticipated projects)		
TEAM MEMBER	PROJECT ROLE	AVAILABILITY
Mr. Joseph Caldwell, PE, CPESC, CPESQ	Project Manager	30%
Mr. Bruce Davis, PE	Principal-In-Charge	15%
Mr. Dillesh Sheth, PE, TE	Traffic Control	35%
Mr. Michael Errante	Construction Inspection	35%
Mr. Alex Dueson, PE	Drainage Design	40%
Ms. Cheryl DeGano	Environmental Compliance	30%
Mr. Andy Orosco, LS, CFedS	Land Survey	20%

Project Completion Plan

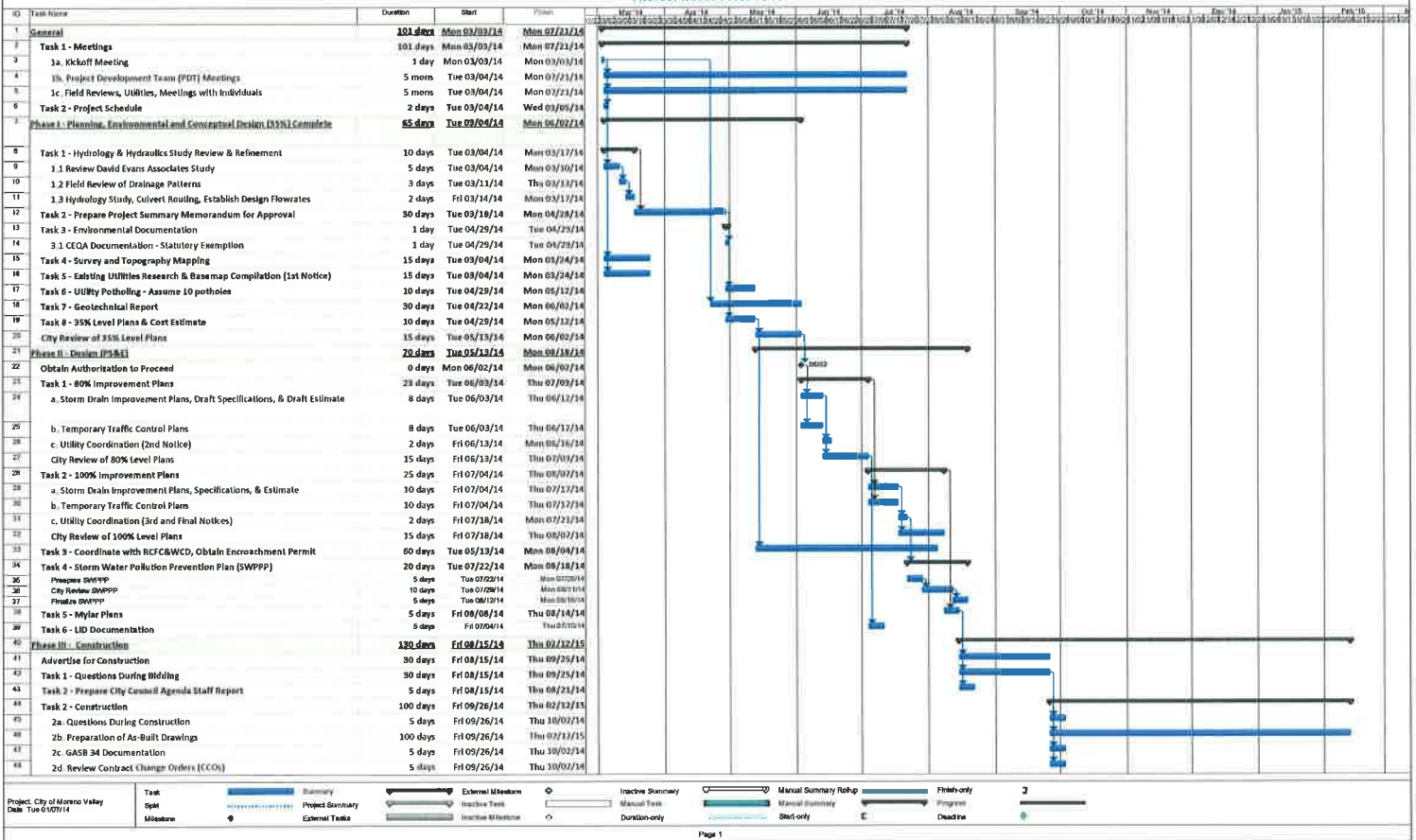
We believe that the best way to monitor and control items that may impact the schedule is through hands-on project management. Development and refinement of our action plan provides key team members with the fundamental requirements in relation to the project schedule. Included in this plan of action is a detailed cost analysis of the most cost effective approach and involvement of all services to be provided.

WEBB has developed a detailed Project Management Program that allows our Project Manager to utilize a variety of project management tools to identify critical success factors for the City, key dates and milestones, key deliverables projects, and a detailed project schedule that can be used to monitor the progress of the project. We have provided the City with a detailed preliminary project schedule in the next section.

5 Work Plan and Schedule

TASK DESCRIPTION	Principal II	Principal I	Senior III	Senior II	Senior I	Associate III	Associate II	Assistant I	2 - Person Survey Party	Project Coordinator	TOTAL HOURS
GENERAL											
Task 1 - Meetings	2			22			22			8	54
Task 2 - Project Schedule	1						4				5
Phase I - Planning, Environmental, & Conceptual Design (35% Complete)											
Task 1 - Hydrology & Hydraulics Study Review & Refinement	4			13			67				84
Task 2 - Prepare Project Summary Memorandum for Approval	2			2			8				12
Task 3 - Environmental Documentation				2			2				4
Task 4 - Survey & Topography Mapping				2			10		20		32
Task 5 - Existing Utilities Research & Basemap Compilation (1st Notice)				4			20			20	44
Task 6 - Utility Potholing - Assume 10 potholes				2			8				10
Task 7 - Geotechnical Report				2			2				4
Task 8 - 35% Level Plans & Cost Estimate	1			8			60				69
Phase II - Design (PS&E)											
Task 1 - 80% Improvement Plans	10			4			76			16	106
Task 2 - 100% Improvement Plans	6			8			54			16	84
Task 3 - Coordinate with RCFC&WCD, Obtain Encroachment Permit				8			8				16
Task 4 - Stormwater Pollution Prevention Plan (SWPP)				2			16				18
Task 5 - Mylar Plans	1						32				33
Task 6 - LID Documentation	1			2			4				7
Phase III - Construction											
Task 1 - Questions During Bidding	2									2	4
Task 2 - Prepare City Council Agenda Staff Report	2			2			4				8
Task 3 - Construction	10		8			6				14	38
TOTAL	42	0	8	83	0	6	397	0	20	76	632

EAST SUNNYMEAD BOULEVARD STORM DRAIN FROM INDIAN STREET TO SR-60/PERRIS BOULEVARD EASTBOUND OFF-RAMP
PROJECT NO. 804 0006 70 77



6 Quality Control and Assurance

WEBB understands the expectations and assumed responsibility that the City requires of its consultants. We will provide complete and comprehensive service, while helping the City to reach its goals for this project. Our goal is to ensure that the City exceeds the expectations of all constituents with a vested interest in this project. We understand that our work and actions impact the public's perception of the City.

We have established an extensive in-house Quality Assurance/Quality Control program that all Project Managers must conform to for all of our projects. This program is overseen by our Chief Operations Officer, who continually monitors the compliance with our in-house QA/QC program. Our team utilizes WEBB's detailed approach to quality assurance and quality control. It demands that its principal leaders rigorously scrutinize every critical aspect of a project.

We conduct QA/QC reviews at key project milestones. Final approval at 100% is achieved only after the associate responsible for each portion of the project signs off on our internal QA/QC approved document, known as the Zero Sheet, prior to submittal to the client. Please refer to [Appendix B](#) for a sample Zero Sheet.

By establishing this organized process, WEBB is able to optimize collaboration between the City, the firm, and all local agencies involved in the project. Our quality assurance methods guarantee review of all plans, specifications, reports, and documents for completeness and constructability before they are presented to the client.

This improves overall project management, reduces the opportunity for costly mistakes and delays, and allows our associates to provide effective and efficient service. We understand the value of reviewing work, and that doing it right the first time is the best way to meet deadlines and budgets.



WEBB QUALITY ASSURANCE & CONTROL PROCESS

The assigned QA/QC Manager will advise the Design Engineers on the appropriate design quality checks that will be accomplished during the design process. At several points during this process, the assigned QA/QC Manager will perform various design checks to ensure proper adherence to quality standards. At the completion of the project, final examination and review will be conducted by other professionals not involved in the original design using quality assurance procedures associated with the project. This proven process provides the highest level of quality expectation available.

While scheduling and delivering a project on time is important, delivering a product that is free of errors is equally critical. For this reason, WEBB takes great pride in providing the highest level of engineering design and cost estimating. Besides having an in-house QA/QC program, WEBB has an extensive database of construction cost information. Cost estimating is critical, as it allows our clients to understand the estimated probable cost of a project before deciding to go out to bid. All cost estimates are prepared by our Project Engineers and reviewed by our Project Managers.

7 Additional Relevant Information

At this time, WEBB has no additions or exceptions to the City's Request for Proposal. All provisions and conditions are acceptable at this time. WEBB also maintains adequate liability insurance to satisfy the City's requirements.

- The RFP for the East Sunnymead Boulevard Storm Drain Project shall be incorporated in its entirety as a part of WEBB's proposal.
- The RFP for the East Sunnymead Boulevard Storm Drain Project will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by WEBB and the Mayor or City Manager of Moreno Valley.
- WEBB's services to be provided, and fees therefore, will be in accordance with the City's RFP, except as otherwise specified in the Consultant's Proposal under the heading "Additions or Exceptions to the City's Request for Proposal."
- WEBB acknowledges and understands that WEBB will be paid for the work completed based on milestones completed and accepted by the City per the RFP, page 19.
- WEBB acknowledges and understands that we will not be allowed to change the sub-consultants without written permission from the City.
- All charges for WEBB's services are on an hourly basis with a "Not-to-Exceed Fee," which will include conservatively estimated reimbursable expenses, as submitted with and made a part of WEBB's proposal.
- WEBB will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.
- WEBB will immediately document and notify the City of any defects or hazardous conditions observed in the vicinity of the project site prior, during, or after construction work.
- WEBB will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.
- All federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict between federal, state or local laws or regulations, the strictest shall be adhered to.
- WEBB shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.
- WEBB shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7) and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), and amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision," and State of California prevailing wage rates, respectively.
- WEBB shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.
- WEBB offers and agrees to assign to the City all rights, title, and interest in and to all causes action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to WEBB, without further acknowledgement by parties.

Client#: 238031

ALBEWEBB1

ACORD™ CERTIFICATE OF LIABILITY INSURANCE		DATE (MM/DD/YYYY) 3/16/2012
PRODUCER Inland Empire CL HUB Int'l Insurance Serv. Inc. 4371 Latham St, Ste #101 Riverside, CA 92501		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
INSURED Albert A. Webb Associates 3788 McCray St. Riverside, CA 92506		
		INSURERS AFFORDING COVERAGE
		NAIC #
		INSURER A: Travelers Property Casualty Co 25674
		INSURER B: ACE American Insurance Company 22667
		INSURER C:
		INSURER D:
		INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
A		GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	P6305456P929TIL12	02/01/12	02/01/13	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000
A		AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS	P8105456P929TIL12	02/01/12	02/01/13	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC AGG \$
		EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	PJUB4A46491711 YES	09/01/11	09/01/12	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
B		OTHER Professional Liability	G23638010003	08/08/11	08/08/12	\$1,000,000 Each Claim \$2,000,000 Aggregate \$100,000 Deductible

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Verification of Insurance.

CERTIFICATE HOLDER

CANCELLATION 10 Days for Non-Payment

For Insureds Informational Purpose Only

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Albert A. Webb



ACORD 25 (2001/08) 1 of 2

#S1600368/M1536234

KM44

© ACORD CORPORATION 1988

DISCLOSURE OF LOBBYING ACTIVITIES
 Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

1. Type of Federal Action: <input checked="" type="checkbox"/> a. Contract b. Grant c. Cooperative agreement d. Loan e. Loan guarantee f. Loan insurance	2. Status of Federal Action: <input checked="" type="checkbox"/> a. Bid/offer/application b. Initial award c. Post-award	3. Report Type: <input checked="" type="checkbox"/> a. Initial filing b. Material change For Material Change Only: Year _____ Quarter _____ Date of last report _____
4. Name and Address of Reporting Entity: <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subordinate Tier _____, if known Congressional District, if known:	5. If Reporting Entity in No. 4 is Subordinate. Enter Name and Address of Prime: N/A Congressional District, if known:	
6. Federal Department/Agency: N/A	7. Federal Program Name/Description: N/A CFDA Number, if applicable:	
8. Federal Action Number, if known: N/A	9. Award Amount, if known: \$ N/A	
10. Name and Address of Lobbying Entity (if individual, last name, first name, AB): N/A	10. Individuals Performing Services (including address if different from No. 10a) (Last name, first name, AB): 	
11. Information requested through this form to substantiate by Title 31 U.S.C. Section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the bar above when this transaction was made or ordered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature:  Print Name: <u>Kevin Ferguson</u> Title: <u>Chief Development Officer</u> Telephone No.: <u>951.686.1070</u> Date: <u>October 10, 2013</u>	
Federal Use Only:	Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)	

Standard Form LLL, Rev. 06-04-90

W:\CapProj\CapProj\BOLERO\Consolidated\RFP-Letter-Attachment\Under RFP_DBE\RFP Attachment-Form LLL-DBE.doc

Certification for Contracts, Grants, Loans, and Cooperative Agreements

(Federal Fiscal Year 2012 to 2013)

I, , hereby certify on behalf
(Name and title of Grantee official)

of The City of Moreno Valley, that
(Name of Grantee)

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, of cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subgrants, and contracts and subcontracts under grants, subgrants, loans, an cooperative agreements) which exceed \$100,000, and that all such subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Executed this 31st of July, 2013.


(Signature of authorized official)

By:

Kevin Ferguson, Chief Development Officer
(Title of authorized official)

W:\CapProj\CapProj\BOILER\Consultant\IRFP-Letter-Attachment\Boiler-RFP Attachment-Form LLL-DBE.doc

LIST OF SUBCONSULTANTS

PROJECT NAME: East Sunnymead Boulevard Storm Drain Project

PROJECT NO: Project No. 804 0006 70 77

CONSULTANT NAME: Albert A. Webb Associates

NAME CHJ Consultants	DESCRIPTION OF SUBCONSULTANT'S WORK: Geotechnical Engineering
TELEPHONE (909) 824-7311	
ADDRESS 1355 East Cooley Drive, Suite C	
CITY, STATE ZIP Colton, CA 92324	

NAME C-Below Subsurface Imaging	DESCRIPTION OF SUBCONSULTANT'S WORK: Utility Potholing
TELEPHONE (888) 902-3569	
ADDRESS 14280 Euclid Ave	
CITY, STATE ZIP Chino, CA 91710	

NAME Advance Utility Design	DESCRIPTION OF SUBCONSULTANT'S WORK: Utility Research and Coordination
TELEPHONE (951) 308-6008	
ADDRESS 30033 Technology Drive - Suite 104	
CITY, STATE ZIP Murrieta, CA 92563	

Duplicate this form as necessary to report all subconsultant(s) information.

PROPOSER'S LIST OF SUBCONSULTANTS (DBE AND NON-DBE) – PART II

The proposer shall list all subconsultants who provided a quote or proposal but were not selected to participate as a subconsultant on this project. This is for compliance with Title 49, Section 26 of the Code of Federal Regulations. **Photocopy this form for additional firms.**

Firm Name/ Address/ City, State, ZIP	Phone/ Fax	Annual Gross Receipts	Description of Portion of Work to be Performed	Certified DBE?
<i>Name</i> CHJ Consultants	<i>Phone</i> (909) 824-7311	<input type="checkbox"/> < \$1 million	Geotechnical Engineering	<input type="checkbox"/> YES
<i>Address</i> 1355 East Cooley Drive	<i>Fax</i>	<input type="checkbox"/> < \$5 million		<input checked="" type="checkbox"/> NO
<i>City State ZIP</i> Colton, CA 92324	(909) 503-1136	<input type="checkbox"/> < \$10 million		<i>If YES list DBE #:</i>
		<input checked="" type="checkbox"/> < \$15 million		<i>Age of Firm (Yrs.)</i> 42 years
		<input type="checkbox"/> > \$15 million		
<i>Name</i> C-Below	<i>Phone</i> (888) 902-3569	<input type="checkbox"/> < \$1 million	Utility Potholing	<input type="checkbox"/> YES
<i>Address</i> 14280 Euclid Ave	<i>Fax</i>	<input checked="" type="checkbox"/> < \$5 million		<input checked="" type="checkbox"/> NO
<i>City State ZIP</i> Chino, CA 91710	N/A	<input type="checkbox"/> < \$10 million		<i>If YES list DBE #:</i>
		<input type="checkbox"/> < \$15 million		<i>Age of Firm (Yrs.)</i> 4 years
		<input type="checkbox"/> > \$15 million		
<i>Name</i> Advance Utility Design	<i>Phone</i> (951) 308-6008	<input checked="" type="checkbox"/> < \$1 million	Utility Research and Coordination	<input type="checkbox"/> YES
<i>Address</i> 30033 Technology Drive #4	<i>Fax</i>	<input type="checkbox"/> < \$5 million		<input checked="" type="checkbox"/> NO
<i>City State ZIP</i> Murrieta, CA 92563	(951) 308-6028	<input type="checkbox"/> < \$10 million		<i>If YES list DBE #:</i>
		<input type="checkbox"/> < \$15 million		<i>Age of Firm (Yrs.)</i> 10 years
		<input type="checkbox"/> > \$15 million		
<i>Name</i>	<i>Phone</i>	<input type="checkbox"/> < \$1 million		<input type="checkbox"/> YES
		<input type="checkbox"/> < \$5 million		<input type="checkbox"/> NO
<i>Address</i>		<input type="checkbox"/> < \$10 million		<i>If YES list DBE #:</i>
	<i>Fax</i>	<input type="checkbox"/> < \$15 million		
<i>City State ZIP</i>		<input type="checkbox"/> > \$15 million		<i>Age of Firm (Yrs.)</i>

Distribution: 1) Original – Local Agency File

A Project Team Resumes



Mr. Joseph Caldwell, PE, CPESC, CPSWQ, Director – Stormwater Engineering

As an expert in Hydrology and Hydraulics, Joseph Caldwell leads the firm's Stormwater Engineering Department, focusing on the development of Master Drainage Plans, the design of backbone drainage infrastructure, and the design of water quality systems for flood control projects throughout the region. As a Certified Professional in Erosion and Sediment Control and Storm Water Quality, Joseph is a specialist in water quality and environmental compliance.

Joseph is experienced in the design of regional flood control basins, flood control levees, and backbone drainage and water quality infrastructure. He has hydrologically and hydraulically modeled the San Jacinto River from Railroad Canyon to the existing Army Corps levee in the City of San Jacinto.

Joseph has an MS and BS in civil engineering from Brigham Young University and is a California registered civil engineer. He is also California Stormwater Quality Association (CASQA) Trainer of Record for the California Construction General Permit.

Education

MS/BS, Civil
Engineering, BYU

Registrations

PE 67239 (CA)

Certified
Professional
In Erosion and
Sediment Control
(CPESC)
No. 5311

Certified
Professional in
Storm
Water Quality
(CPSWQ)
No. 544

Qualified SWPPP
Developer/
Practitioner QSD/
QSP
No. 00076

Construction
General Permit
Trainer of Record

Affiliations

American Society
of Civil Engineers
(ASCE)

American Public
Works Association
(APWA)

California Storm
Water Quality
Association
(CASQA)

Floodplain
Managers
Association (FMA)

RELATED EXPERIENCE

Lower Etiwanda Creek, City of Ontario, CA - Mr. Caldwell was the Design Engineer for this multi-jurisdictional project, which included San Bernardino County Flood Control, the Cities of Ontario, Fontana and Rancho Cucamonga, and the California Department of Transportation. This project included the preparation and implementation of a Master Drainage Plan system in the Lower Etiwanda Creek. The plan included a landscaped earthen channel system that provided habitat restoration and water quality beneficial uses, re-mapping the FEMA Floodplain, and permits from all participating agencies, as well as all the regulatory agencies.

Palm Springs MDP Line 43 and Lateral 43-A, Riverside County Flood Control & WCD - Mr. Caldwell is the Project Manager of the Palm Springs MDP Line 43 and Lateral 43-A project and is responsible for the design of a drainage line from the Eagle Canyon Dam to the West Cathedral Canyon Channel. Choosing the proper alignment in order to minimize the variety of impacts that could have arisen within the project area was the most critical element of this project. The chosen alignment had to take into consideration the future redevelopment of the City owned property immediately downstream of Eagle Canyon Dam, impacts to the existing commercial businesses, and the heavy traffic volume on Highway 111. In order to address these critical issues, Mr. Caldwell managed the development of a Preliminary Design Report for this project. During Final Design, Mr. Caldwell coordinated the relocation of several major utilities along the project alignment.

Hemet MDP Line C, Stage 4, Riverside County Flood Control & WCD, City of Hemet, CA - Mr. Caldwell is the Project Manager for the Hemet MDP Line C, Stage 4 Project. The extension of the Hemet MDP Line C is an important component to provide surface flooding relief and flood protection of a predominately developed portion of the City of Hemet. This segment of the Master Plan Facility represents the middle one third of the entire Line C system. The critical component of this project is implementing a master planned facility in a highly urbanized area of the City that is extremely constrained by multiple utilities. WEBB has completed a Preliminary Design Report that outlines the most feasible alignment for this facility. WEBB is currently preparing final design plans and specifications for this backbone drainage facility.

Palm Springs MDP Line 43 and Lateral 43-A, Riverside County Flood Control & WCD - Mr. Caldwell is the Project Manager for this project, responsible for the design of a drainage line from the Eagle Canyon Dam to the West Cathedral Canyon Channel. Choosing the proper alignment in order to minimize the variety of impacts that could have arisen within the project area was the most critical element of this project. The chosen alignment had to take into consideration the future redevelopment of the City owned property immediately downstream of Eagle Canyon Dam, impacts to the existing commercial businesses, and the heavy traffic volume on Highway 111. In order to address

Mr. Joseph Caldwell, PE, CPESC, CPSWQ, Director – Stormwater Engineering

these critical issues, Mr. Caldwell managed the development of a Preliminary Design Report for this project. During Final Design, Mr. Caldwell coordinated the relocation of several major utilities along the project alignment.

Perris Blvd. Street and Storm Drain Improvement Project, IDI, Moreno Valley, CA - Mr. Caldwell served as a Project Engineer for the Perris Blvd. Street and Storm Drain Improvement Project. WEBB provided planning, design, right-of-way engineering, and construction services for this multi-faceted infrastructure project that involved three different governmental agencies. This project included the planning, design, and construction of a 3500 foot ± section of Perris Boulevard and required review and approval by both the City of Moreno Valley and the City of Perris as the improvements crossed city boundaries. Improvements included construction of a 3300 feet ± Master Plan storm drain which provided flood control protection for this section of the City. Planning, design, and construction of this major drainage facility required review and approval by both the City of Moreno Valley and the Riverside County Flood Control and Water Conservation District. WEBB was able to coordinate the various components of the construction of the Perris Blvd. Street and Storm Drain Improvements with both Cities involved so vehicular traffic could continue uninterrupted.

Indian Avenue Street Widening and Drainage Infrastructure Improvements (Lateral B-3), First Industrial Realty Trust, Inc., Moreno Valley, California - Mr. Caldwell served as the Project Engineer for the Indian Avenue Street Widening and Drainage Infrastructure Improvements (Lateral B-3) Project. This project consisted of widening the roadway from two to four lanes, landscape improvements, water quality treatment control, and included the design of over 6,000 feet of backbone drainage infrastructure for the City of Moreno Valley. These facilities will be constructed as part of CFD No. 7 under the direction of the City. WEBB's responsibilities included the update of master plan hydrology, storm drain design, utility relocation, traffic signal modification, traffic control coordination, contract document preparation, and construction assistance. Traffic control also had to be coordinated for review and approval by both cities.

Homeland/Romoland ADP Inc., Homeland/Romoland ADP, Inc., Riverside County, CA - Mr. Caldwell was the Project Manager for this Regional Drainage Project. WEBB has been involved in all facets of the Homeland/Romoland Area Drainage Plan update and design. Our team prepared the engineering, environmental and economic analysis for the MDP update. Following the update, we prepared construction drawings for the first phase of construction, which included over ten miles of backbone drainage facilities and is valued at over \$70 million. Portions of this project are relatively deep and required special design considerations. Inlet structures and grading were designed to capture local runoff and tie into the storm drain system. Where necessary, WEBB designed and coordinated the relocation of existing utilities. WEBB also prepared over 200 plats and legal descriptions for the right of way required for this project and also prepared phased traffic control plans for the very busy Highway 74/Briggs Road intersection. Responsibilities for this \$50+ million dollar construction project included development of project hydrology, hydraulic analysis of the regional drainage system, and preparation of an EIR.

Continued on Following Page....



Mr. Bruce Davis, PE, Senior Vice President

Mr. Davis is a Senior Vice President at Albert A. Webb Associates. Bruce's breadth of experience and in-depth technical and professional background with both public and private projects make him a well versed consultant with the ability to serve the best interests of both public agencies and private clients. Bruce's past experience has allowed him to be successful in a number of large and complex projects over the last 26 years. His unique ability to understand the planning and civil engineering needs of a project, coupled with his uncanny ability to mediate problems and find creative solutions with all constituents involved makes him a highly sought after consultant.

Education

BS, Civil
Engineering, Cal
Poly Pomona

Registration

Registered Civil
Engineer
PE 47200 (CA)

Affiliations

American Public
Works Association

American Water
Works Association

CalWater PAC
(Political Action
Committee)

Association of
California Water
Agencies

Coachella Valley
Economic
Partnership

League of
California Cities

Bruce has served as the Principal-In-Charge for literally hundreds of planning, design, and regional infrastructure and development projects. He has extensive public works experience with water/wastewater facilities, traffic, transportation, and drainage projects. Bruce's private sector experience includes the planning and design of specific plans, large and small scale residential and commercial developments, and special financing districts. His extensive experience translates to an understanding of all the steps required to successfully complete a project efficiently and on schedule, from inception to completion.

Actively involved and a leader in the CalWater Political Action Committee, Association of California Water Agencies, American Public Works Association, Inland County Water Association, Coachella Valley Economic Partnership, BIA Inland Empire and Desert Chapters, and the League of California Cities, Bruce serves as an excellent resource and representative for his clients on current legislation, issues, and trends in our region.

As a Principal within the firm, Bruce has complete access and the ability to manage resources in all disciplines within the firm including, but not limited to: Water Resources, Traffic and Transportation, Drainage, Planning and Environmental Services, Special Tax and Assessment Consulting, Residential Development, Commercial and Industrial Development, Construction Management and Inspection, Survey, Mapping, and GIS. Bruce also has a unique ability to lead and manage client staff when called upon, which has been exhibited through his past involvement with other clients.



Mr. Dilesh Sheth, PE, TE, Vice President, Director – Traffic & Transportation

Mr. Sheth is the Director of the Traffic and Transportation Department for Albert A. WEBB Associates. As an expert, Dilesh represents the firm, as well as both public and private clients, presenting findings and recommendations to elected officials, municipal commissions, community groups, and the general public.

Having coordinated projects with Caltrans and numerous counties, cities, flood control districts, utility companies, residential and business owners throughout Southern California, Dilesh specializes in mastering agency requirements and goals, which contributes to his unique ability to balance the needs of the community with the needs of local jurisdictions to bring positive solutions to difficult situations and projects.

Dilesh's technical experience includes: highway design, intersection and interchange improvements, street widening, alignment studies, and geometrics drawings. His recent projects include a diverse range of roadway improvements, storm drain improvements, traffic signal design, traffic control plans, signing and striping plans, pedestrian and bike facilities, site access evaluation, intersection capacity analysis, traffic forecasting, circulation planning, traffic impact studies, parking studies, parking demand analysis, transportation demand management plans, focused site specific traffic studies, and area-wide circulation studies.

RELATED EXPERIENCE

Palm Springs MDP Line 43 and Lateral 43-A, Riverside County Flood Cntl & WCD, County of Riverside, CA -

Mr. Sheth provided traffic engineering services for the Palm Springs MDP Line 43 and Lateral 43-A project. The completion of the Line 43 and Lateral 43-A is an important component to the flood protection that the Eagle Canyon Dam will provide to this portion of Cathedral City. This Master Plan facility is the main link from the proposed dam to the West Cathedral Canyon Channel. However, as is the very nature of master planning these types of facilities, the criteria used to establish facility type and location are subject to changes over time. This is definitely the case with Line 43 and Lateral 43-A. Since the time that the Master Plan was developed in 1982, several changes have occurred in the area. Some of these changes include the construction of new businesses, the removal of other businesses, and the re-designation of Highway 111 from a state highway to a local highway. Not to mention the changes in rainfall values. Recognizing these changes, WEBB evaluated alternative alignments to prepare a Project Design Report.

Perris Boulevard and Storm Drain Project, City of Perris, California - Mr. Sheth was the project manager responsible for preparation of traffic control plans for Perris Boulevard for the construction of storm drain and street improvements. The project included traffic signal design for the intersection of Perris Blvd. and Globe Avenue and Perris Blvd. and Project Driveway and temporary traffic signal and traffic control plans for the installation of storm drain and construction of Perris Blvd. Perris Blvd. is a heavily traveled roadway connecting City of Moreno Valley and City of Perris. Perris Blvd. was a two lane roadway in the project vicinity. During construction it was important that provide one lane each direction and left turn lane at the intersection of Perris Blvd. and Globe Street. The traffic control plans were prepared to provide contractor as much room possible to achieve higher production at the same time provided traffic safety and less inconvenience to public.

Indian Avenue Street Widening and Drainage Infrastructure Improvements (Lateral B-3), First Industrial Realty Trust, Inc., Moreno Valley, California -

Mr. Sheth served as the Traffic Engineer for the Indian Avenue Street Widening and Drainage Infrastructure Improvements (Lateral B-3) Project. This project consisted of widening the roadway from two to four lanes, landscape improvements, water quality treatment control, and included the design of over 6,000 feet of backbone drainage infrastructure for the City of Moreno Valley. These facilities will be constructed as part of CFD No. 7 under the direction of the City. WEBB's responsibilities included the update of master plan hydrology, storm drain design, utility relocation, traffic signal modification, traffic control coordination, contract document preparation, and construction assistance. Traffic control also had to be coordinated for review and approval by both cities.

Education

BS, Civil Engineering,
University of Saurashtra,
Rajkot, India

Registrations

Registered Civil Engineer
PE 65078 (CA)
PE 14934 (NM)

Registered Traffic Engineer,
TE 2112 (CA)

Affiliations

Vice President,
American Public Works Association
(APWA) Coachella Valley

Past President,
Riverside-San Bernardino
Institute of Transportation
Engineers (ITE)

Institute of Transportation
Engineers of America



Mr. Michael Errante, PE, QSD, QSP
Director – Construction Management and Inspection

Mr. Michael Errante has over 25 years of experience providing engineering and project management services in both the U.S. and overseas. His experience spans construction and technical field work to diverse engineering positions and leadership roles, including nearly 10 years with the City of Palm Desert where 5 years were spent as Director of Public Works. Michael also served as a Transportation Lead and Deputy Chief of Party in Afghanistan for the USAID Afghanistan Engineering Support Program (AESP). He provided training to local engineers to inspect infrastructure throughout Afghanistan, including roads, bridges, culverts, and airports. Mr. Errante has managed over 2 billion in construction projects for USAID alone and is an expert in construction and project management services, field inspection, plan preparation, specification writing, and cost estimating.

Education

BS, Geological Engineering,
University of Arizona

Registrations

PE 48241 (CA)
PE 47817 (AZ)

Affiliations

American Public Works Association (APWA)

Project Management Institute (PMI)

RELATED EXPERIENCE

Highway 111 Widening, City of Palm Desert, Palm Desert, California - As Public Works Director for the City of Palm Desert, Mr. Errante managed the Highway 111 Widening Project. Mr. Errante interfaced with Riverside County Transportation Commission (RCTC) and Caltrans to widen Highway 111 within the city limits under Caltrans ROW, obtained ROW from adjacent property owners, oversaw selection of design firms and design of plans and specifications, verified that plans and specification and construction were in compliance with all regulatory agencies and funding including Measure A and federal funds, and oversaw the close out of the project.

Various Bridge Improvement Projects, City of Palm Desert, Palm Desert, California - As Public Works Director for the City of Palm Desert, Mr. Errante was responsible for various Bridge Improvement Projects. Mr. Errante obtained ROW/Environmental Clearances, procured funding through Coachella Valley Association of Governments (CVAG), oversaw selection of design and construction management firms, oversaw preparation of plans and specifications, oversaw construction activities and verified compliance with funding requirements, and oversaw the closeout for the following projects:

- **Magnesia Falls Bridge over San Pascual Channel**
- **Fred Waring Bridge Widening over Palm Valley Channel**
- **Monterey Avenue over Whitewater Wash**
- **Portola Avenue Bridge over Whitewater Channel**

Monterey Avenue Overcrossing I-10 Interstate, City of Palm Desert, Palm Desert, California - As Public Works Director for the City of Palm Desert, Mr. Errante interfaced with the County of Riverside and Caltrans staff and oversaw construction management and closeout of the Monterey Avenue Overcrossing 1-10 Interstate Project.

Portola Avenue Overcrossing I-10 Interstate, City of Palm Desert, Palm Desert, California - As Public Works Director for the City of Palm Desert, Mr. Errante oversaw the selection of environmental and design firms for the Portola Avenue Overcrossing Project.

Harbor Freeway Widening and Overcrossings, Caltrans District 7, Los Angeles, California - Mr. Errante served as the Senior Field Inspector and Assistant Project Manager for the Harbor Freeway Widening and Overcrossings Project. He worked with Caltrans District 7 to document progress of work, verify and inspect roadways and structures for contractor's compliance, and review and prepare B/C reviews. Mr. Errante also prepared contract specifications, change orders, shop drawings, and monthly pay estimates and coordinated proposed and existing utilities.

La Quinta Civic Center and Senior Center, City of La Quinta, La Quinta, California - Mr. Errante served as the Construction Manager for the \$12 million La Quinta Civic Center and Senior Center Project. His duties included documenting work progress, verifying and inspecting structures for contractor's compliance with contract documents, reviewing and preparing B/C reviews, contract specifications, change orders, shop drawings, monthly pay estimates. He also coordinated proposed and existing utilities.



Ms. Cheryl DeGano, Principal Environmental Analyst

Education
BA, Biology, UCR

Affiliations
Association of Environmental Professionals (AEP)

AEP Inland Empire Chapter representative to the Legislative Review Committee 2005-2009

Co-Vice President of Programs 2009, Newsletter Editor 2010 American Planning Association (APA)

Awards
In 2007 the EIR for the Avenue Specific Plan and Related General Plan Amendment won the "Out-standing Environmental Analysis Document for Jurisdictions with Populations Over 50,000" from the Inland Empire Chapter of the Association of Environmental Professionals.

Ms. DeGano is experienced in the preparation of environmental and planning documents and assisting public agencies and private sector clients finance public facilities/services through the formation and administration of special finance districts and the preparation of development impact fee studies. Strengths include: communication and analytical skills, establishment and maintenance of excellent client relationships, proven ability to take over large projects with minimal disruption to client, experience with high profile and controversial studies, and a desire to work collaboratively toward a common goal. Ms. DeGano has been responsible for the preparation and processing of environmental and planning documents including Environmental Impact Reports, Environmental Assessments, Initial Studies and Mitigated Negative Declarations, Mitigation Monitoring and Reporting Programs (MMRPs), Specific Plans, Development Impact Fee ("Nexus") Studies per CA Government Code 66000 et seq., and Development and Entitlement Applications.

Ms. DeGano has been responsible for all aspects of these projects including: research, data collection and analysis, report writing, quality assurance/quality control review, preparation of distribution lists, direction of public noticing, project management, and agency and client coordination.

RELATED EXPERIENCE

- *Homeland/Romoland Master Drainage Plan EIR, Homeland/Romoland ADP, Inc., Homeland/Romoland, CA*
- *Master Drainage Plan Environmental Compliance, City of San Jacinto - Public Works, San Jacinto, CA*
- *City Wide Stormwater Master Plan, City of Grand Terrace, Riverside County, CA*
- *EIR Mira Loma Thoroughbred Farms, IDI, Riverside County, CA*
- *Perris Industrial Specific Plan, City of Perris, Riverside County, CA*
- *On-Call Project Management Services, County of Riverside - Trans Dept, Proj Work Location*
- *Edgemont Water Master Plan Initial Study/Environmental Assessment (IS/EA)/ /Negative Declaration/ FONSI, City of Moreno Valley - Pub Works, Moreno Valley, CA*
- *Meadowlark Road Project, City of Murrieta - Public Works, City of Murrieta, CA*
- *Indiana Ave. Sidewalk Improvement, County of Riverside - EDA, Riverside County, CA*
- *Env. Svcs. Tequesquite Landfill, City of Riverside Public Utilities, Riverside County, CA*
- *Environ Svcs Rancho Jurupa Sport Pk, County of Riverside - EDA, Riverside County, CA*
- *City of Corona, City of Corona Water & Power, Proj Work Location*
- *Ayala Avenue Widening, City of Rialto - Public Works, Proj Work Location*
- *Env. Services - Master Sewer Plan, Jurupa Community Services Dist.-Eng, Riverside County, CA*
- *Pyrite Avenue Street Improvements, County of Riverside - EDA, Riverside County, CA*
- *Walmart Expansion, City of Riverside - Planning Dept, Riverside County, CA*
- *Washington St. Dual Left Turn, City of La Quinta, Riverside County, CA*
- *Imperial Hardware, City of Riverside - Planning Dept, Riverside County, CA*
- *Tequesquite Photovoltaic System Project, County of Riverside, CA*
- *Butterfield Pk Reclaimed Waterline, City of Corona - Public Works Dept, Riverside County, CA*
- *EIR for the Moreno MDP Revision, Riverside County Flood Cntl & WCD, Riverside County, CA*
- *Madison St Improvement Project, City of Indio - Public Works, Riverside County, CA*



Mr. Alex Dueson, PE, QSD, QSP, Associate Engineer

With over five years of experience in hydrology, hydraulics, and flood control infrastructure design, Alex Dueson has a detailed understanding of various local agency's design standards and practices. He has developed or aided in the development of several Master Drainage Plans for the area, focusing on the balance between value engineered solutions and environmentally practicable alternatives with realistic schedules. He has extensive experience in design of Plans, Specifications, and Estimates (PS&E) for numerous flood control infrastructure projects ranging from small diameter underground conduit to large reinforced concrete box structures, to high flow open channels and basins. He has also worked on several streambank restoration and geomorphological studies.

Alex's experience ranges from conceptual hydrologic and hydraulic studies to final design plans, and he specializes in implementing cost effective and constructible solutions.

Education

MS, Civil Engineering,
University of CA,
Irvine

BS, Civil Engineering,
University of Pittsburgh

Registrations

Professional Engineer
PE 81608
(CA)

RELATED EXPERIENCE

- *Santa Ana River Interceptor Line Protection, Riverside County Flood Control & WCD, Riverside County, CA*
- *Hemet MDP Line C, Stage 4, Riverside County Flood Control & WCD, City of Hemet, CA*
- *I-215 Logistics Center, Trammell Crow Company, City of Moreno Valley, CA*
- *Perris Valley Logistics Complex, Howard Industrial Partners, Perris, CA*
- *Final Design Services for Fiesta Recharge Basin, San Geronio Pass Water Agency, Beaumont, CA*
- *Due diligence and ALTA Services, First Industrial Realty Trust, Inc., City of Moreno Valley, CA*
- *Eastvale Medical Office Building, Eastvale San Antonio MOB, LLC, City of Eastvale, CA*
- *Entitlement, Design, and Construction Services for Redlands Distribution Center, ProLogis, City of Redlands, CA*
- *Goodman Commerce Center - Offsite Design Services, Goodman Rancho SPE, LLC, Rancho Cucamonga, CA*
- *Final Design Services for Indian and Iris, Panattoni Development Company, Inc., Moreno Valley, CA*
- *University Wash Final Design, Riverside County Flood Control & WCD, Riverside County, CA*
- *ALTA Survey for Agua Mansa Road and Riverside Avenue, Howard Industrial Partners, Colton, CA*
- *WPPP Services TPM 36299, Stark Menifee Land, LLC, Menifee, CA*
- *Heacock Channel Design, March Joint Powers Authority, Moreno Valley, CA*
- *Limonite Avenue Widening Project, County of Riverside - Trans Dept, City of Jurupa Valley, CA*



Mr. Andrew Y. Orosco, LS, CFedS, Director – Land Survey

With over 38 years of experience with diverse surveying projects, Mr. Orosco is the Director of Land Survey for Albert A. Webb Associates. Andy has managed survey projects that include large scale boundary and design surveys, ALTA land title surveys, legal descriptions, parcel mergers, lot line adjustments, route surveys, encumbrance and final maps, construction control maps, high-rise Class A, residential, commercial and industrial construction. As a Licensed Land Surveyor in California and a Certified Federal Surveyor, Andy is an expert in his field and with local, county, state, and federal land survey regulations and procedures.

Education

Surveying & Engineering,
San Bernardino Valley College &
Riverside Community College

Registrations

Land Surveyor LLS
No. 5491

Certified Federal
Surveyor No. 1034

Affiliations

California Land
Surveyors
Association (CLSA)

RELATED EXPERIENCE

- *Highway 74 Design and Construction Management, CA*
- *Mission Plaza Master Planned Community, Riverside County EDA, CA*
- *Construction Staking and Survey Cedar Glen, CA*
- *Clay Street Grade Separation Relocation, CA*
- *Plant Expansion Project, Western Riverside County Regional Wastewater Authority, Riverside County, CA*
- *Vista & Ellis Zone Water System Improvements, Eastern Municipal Water District, Riverside County, CA*
- *Hamner-Detroit Product Water Pipeline, Chino Basin Desalter Authority, Riverside County, CA*
- *2320 PZ Reach 1 Pipeline, Western Municipal Water District, Riverside County, CA*
- *I-10 & Indian Area Sewer System, Mission Springs Water District, CA*
- *Lakeside Lift Station Project, Jurupa Community Services District, CA*
- *2011 Waterline Replacement Project, City of Ontario, CA*
- *2010-2011 Waterline Replacement Project, Jurupa Community Services District, CA*
- *CDA Raw Water Intertie Pipeline, Chino Basin Desalter Authority, CA*
- *Jurupa Road Trunk Sewer Improvements, Jurupa Community Services District, CA*
- *Mockingbird 12-inch Emergency Pipeline, Western Municipal Water District, CA*
- *Jurupa Trunk Sewer Phases 3 & 5, Jurupa Community Services District, CA*
- *Regional Wastewater Forcemain to Riverside Wastewater Treatment Plant, CA*
- *Master Plan Trunk Sewer in Hamner Ave, City of Ontario, CA*
- *Pyrite Creek/Bain Street Trunk Sewers, Jurupa Community Services District, CA*
- *Rubidoux Inter-Connect Booster Station, Jurupa Community Services District, CA*
- *Waterline Relocation at Wineville & 65th, Santa Ana River Water Company, CA*
- *Indian Hills Tank Piping Modifications, Jurupa Community Services District, CA*
- *Enchanted Heights Sewer System Improvements, Eastern Municipal Water District, CA*
- *Desalter II Pipeline, Chino Basin Desalter Authority, Riverside County, CA*
- *Madison Street Improvement Project, City of Indio - Public Works, Indio, CA*
- *Facility Expansion Plan, Western Riverside County Wastewater Authority, Riverside, CA*
- *Washington St. Dual Left Turn, City of La Quinta, La Quinta, CA*
- *Pyrite Avenue Street Improvements, County of Riverside - EDA, CA*
- *Indian Sidewalk Improvements, County of Riverside - EDA, CA*



ALBERT A.

WEBB

ASSOCIATES

Strength through History and Innovation

City of Moreno Valley - East Sunnymead Boulevard Storm Drain - Project 804 0006 70 77

Task Description	Principal II	Principal I	Senior III	Senior II	Senior I	Associate III	Associate II	Assistant I	2-Person Survey Party	Project Coordinator	Total Hours	Labor	Sub consultants	Reimbursable	Total
General															
Task 1 - Meetings															
1a. Kickoff Meeting	2			2			2			2	8	\$ 1,310		\$ 100	\$ 1,410
1b. Project Development Team (PDT) Meetings - Assume 6				12			12			6	30	\$ 4,560		\$ 200	\$ 4,760
1c. Field Reviews, Utilities, Meetings with Individuals				8			8				16	\$ 2,680			\$ 2,680
Task 2 - Project Schedule	1						4				5	\$ 830			\$ 830
GENERAL TOTAL	3	0	0	22	0	0	26	0	0	8	59	\$ 9,380	\$ -	\$ 300	\$ 9,680
Phase I - Planning, Environmental, and Conceptual Design (35% Complete)															
Task 1 - Hydrology & Hydraulics Study Review & Refinement															
1.1 Review David Evans Associates Study	1			1			5				7	\$ 1,165			\$ 1,165
1.2 Field Review of Drainage Patterns				2			2				4	\$ 670		\$ 200	\$ 870
1.3 Hydrology Study, Culvert Routing, Establish Design Flowrates	3			10			60				73	\$ 11,540			\$ 11,540
Task 2 - Prepare Project Summary Memorandum for Approval	2			2			8				12	\$ 2,030			\$ 2,030
Task 3 - Environmental Documentation															
3.1 CEQA Documentation - Statutory Exemption				2			2				4	\$ 670		\$ 100	\$ 770
Task 4 - Survey and Topography Mapping				2			10		20		32	\$ 6,270		\$ 300	\$ 6,570
Task 5 - Existing Utilities Research & Basemap Compilation (1st Notice)				4			20			20	44	\$ 5,540		\$ 300	\$ 5,840
Task 6 - Utility Potholing - Assume 10 potholes				2			8				10	\$ 1,570	\$ 8,660		\$ 10,230
Task 7 - Geotechnical Report				2			2				4	\$ 670	\$ 12,600		\$ 13,270
Task 8 - 35% Level Plans & Cost Estimate	1			8			60				69	\$ 10,710			\$ 10,710
PHASE I TOTAL	7	0	0	35	0	0	177	0	20	20	259	\$ 40,835	\$ 21,260	\$ 900	\$ 62,995
Phase II - Design (PS&E)															
Task 1 - 80% Improvement Plans															
a. Storm Drain Improvement Plans, Draft Specifications, & Draft Estimate	2			4			60				66	\$ 10,200			\$ 10,200
b. Temporary Traffic Control Plans	8						12				20	\$ 3,640			\$ 3,640
c. Utility Coordination (2nd Notice)							4			16	20	\$ 2,040			\$ 2,040
Task 2 - 100% Improvement Plans															
a. Storm Drain Improvement Plans, Specifications, & Estimate	2			8			40				50	\$ 7,940			\$ 7,940
b. Temporary Traffic Control Plans	4						10				14	\$ 2,420			\$ 2,420
c. Utility Coordination (3rd and Final Notices)							4			16	20	\$ 2,040			\$ 2,040
Task 3 - Coordinate with RCFC&WCD, Obtain Encroachment Permit				8			8				16	\$ 2,680			\$ 2,680
Task 4 - Storm Water Pollution Prevention Plan (SWPPP)				2			16				18	\$ 2,770			\$ 2,770
Task 5 - Mylar Plans	1						32				33	\$ 5,030		\$ 1,000	\$ 6,030
Task 6 - LID Documentation	1			2			4				7	\$ 1,200			\$ 1,200
PHASE II TOTAL	17	0	0	22	0	0	190	0	0	32	257	\$ 39,960	\$ -	\$ 1,000	\$ 40,960
Phase III - Construction															
Task 1 - Questions During Bidding	2									2	4	\$ 640			\$ 640
Task 2 - Prepare City Council Agenda Staff Report	2			2			4				8	\$ 1,430			\$ 1,430
Task 3 - Construction															
3a. Questions During Construction	4		2				2			2	10	\$ 1,820			\$ 1,820
3b. Preparation of As-Built Drawings	2		2				4			4	12	\$ 1,870			\$ 1,870
3c. GASB 34 Documentation	2		4							4	10	\$ 1,600			\$ 1,600
3d. Review Contract Change Orders (CCOs)	2									4	6	\$ 820			\$ 820
PHASE III TOTAL	14	0	8	2	0	6	4	0	0	16	50	\$ 8,180	\$ -	\$ -	\$ 8,180
Additional Directed Work (Optional)														\$ 5,000	\$ 5,000
GRAND TOTAL	41	0	8	81	0	6	397	0	20	76	625	\$98,355	\$21,260	\$7,200	\$126,815

CITY - SERVICES TO BE PROVIDED
TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed **\$126,815**.
2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml
3. The Consultant will electronically submit an invoice to the City for milestone payments along with documentation evidencing services completed to date. The milestone payment is based on actual time and materials expended in furnishing authorized professional services during the preceding period. The project milestones are identified in Section VIII titled "Payment to Consultant" of the City's Request for Proposal. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any milestone payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org. Accounts Payable questions can be directed to (951) 413-3073. Copies of invoices may be submitted to the Capital Projects Division, calls directed to (951) 413-3155.

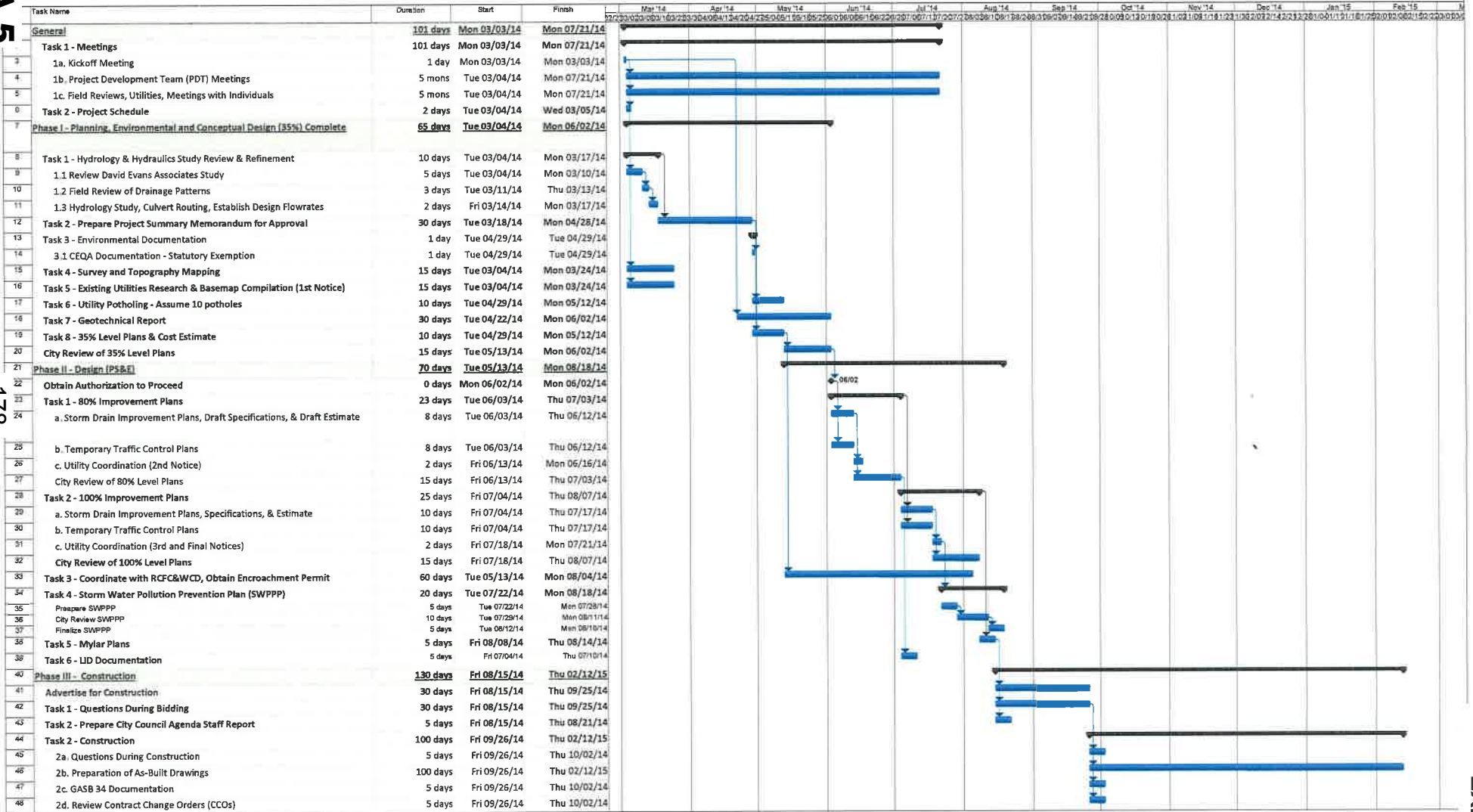
EXHIBIT "D"
PROJECT NO. 804 0006 70 77

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at:

http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:
- A. Vendor Name, Mailing Address, and Phone Number
 - B. Invoice Date
 - C. Vendor Invoice Number
 - D. City-provided Reference Number (e.g. Project, Activity)
 - E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
6. The City shall pay the Consultant for all invoiced, authorized professional services within forty-five (45) days of receipt of the invoice for same.

EAST SUNNYMEAD BOULEVARD STORM DRAIN FROM INDIAN STREET TO SR-60/PERRIS BOULEVARD EASTBOUND OFF-RAMP
PROJECT NO. 804 0006 70 77



Project: City of Moreno Valley
Date: Tue 01/07/14

Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Progress
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Deadline

Page 1



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: PA07-0048 (PM 35500) RIGHT-OF-WAY EASEMENT (APN 316-190-035) FOR SAN CELESTE ROAD STREET IMPROVEMENTS

RECOMMENDED ACTION

Recommendations:

1. Adopt Resolution No. 2014-13. A Resolution of the City Council of the City of Moreno Valley, California, granting a public roadway easement on a city owned parcel fronting the east side of San Celeste Road between San Michelle Road and Rivard Road. Assessor Parcel Number 316-190-035.
2. Authorize the granting of a roadway easement for the City owned parcel known as Assessor Parcel Number 316-190-035.
3. Direct the City Clerk to forward the Resolution to the Mayor for execution and the roadway Easement Deed to the Public Works Director/City Engineer for execution and to forward the document to the County Recorder's Office for recordation for Assessor Parcel Number 316-190-035.

SUMMARY

The developer for PA07-0048 (PM 35500) proposes to construct street improvements on the east side of San Celeste Road including the northeast corner of San Celeste Road and San Michele Road, which will require the dedication of a roadway easement. The improvements will include pavement on the east side of San Celeste Road and curb, gutter, sidewalk, access ramp at the northeast corner curb return at San Celeste Road and San Michele Road. The Street Improvement Plans for the project have been approved.

DISCUSSION

In order to construct the proposed San Celeste Road improvements, right-of-way is required from Assessor Parcel Number 316-190-035, which is owned by the City of Moreno Valley. The parcel is located on the east side of San Celeste Road between San Michele Road and Rivard Road. The appropriate manner for the City to grant an easement to itself is by both resolution and easement deed. Once the Mayor executes the resolution and the easement deed is executed by the Public Works Director/City Engineer, the documents will be recorded with the County Recorder to memorialize the roadway easement.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this Staff Report. *This alternative will allow the developer to have the necessary right-of-way for the construction of San Celeste Road.*
2. Do not approve and authorize the recommended actions as presented in this Staff Report. *This alternative will not allow the developer to have the necessary right-of-way for the construction of San Celeste Road.*

FISCAL IMPACT

Because the City remains the underlying land owner of the roadway easement, there is no acquisition cost associated with the recommended action.

CITY COUNCIL GOALS

Public Safety:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment:

Create a positive environment for the development of Moreno Valley's future.

NOTIFICATION

Publication of Agenda.

ATTACHMENTS

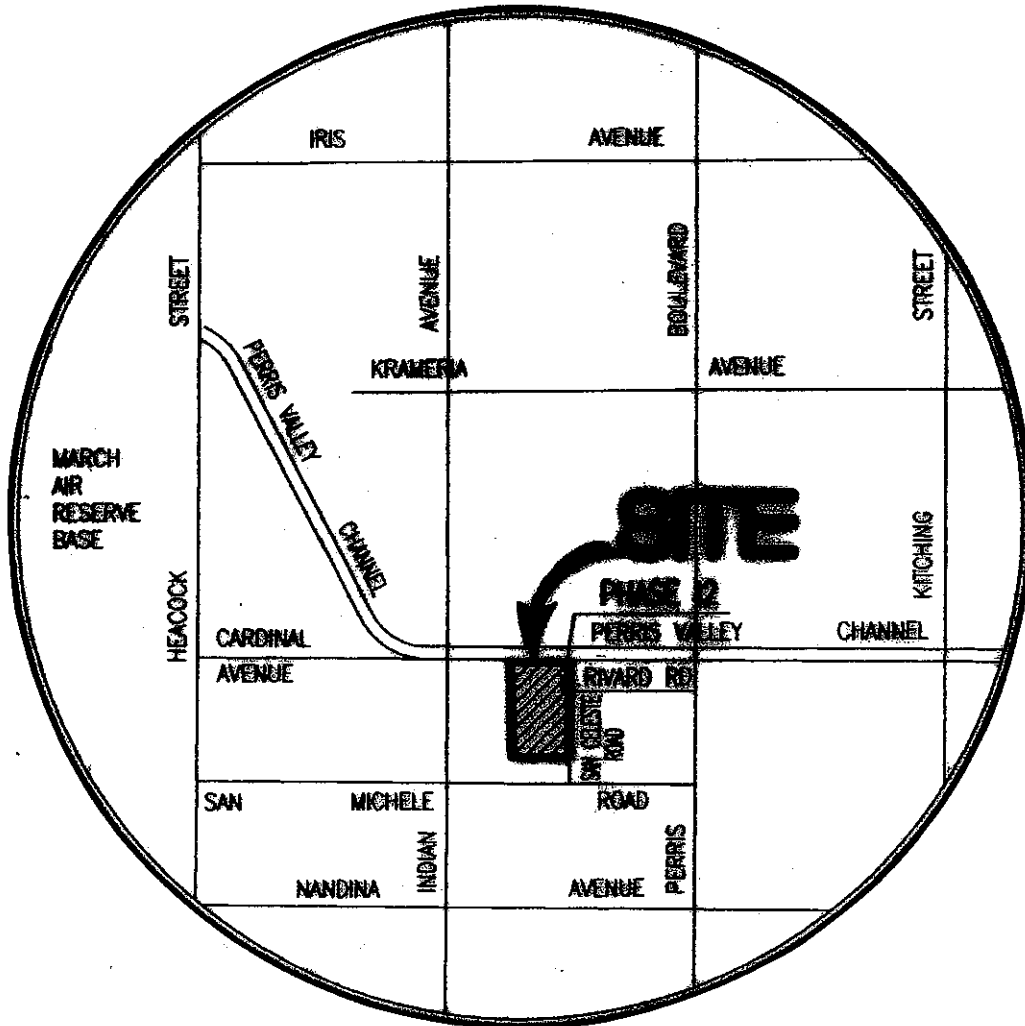
- Attachment 1: Vicinity Map – Roadway Easement
- Attachment 2: Proposed Resolution – Roadway Easement
- Attachment 3: Easement Deed – Roadway Easement (APN 316-190-035)

Prepared By:
Clement Jimenez
Senior Engineer, P.E.

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Mark W. Sambito, P.E.
Engineering Division Manager

This page intentionally left blank.



VICINITY MAP

N.T.S.

CITY OF MORENO VALLEY
 PUBLIC WORKS DEPARTMENT - LAND DEVELOPMENT
 Attachment 1

PM 35500 (PA07-0048)
 SAN CELESTE ROAD

This page intentionally left blank.

RESOLUTION NO. 2014-13

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, GRANTING A PUBLIC ROADWAY EASEMENT ON A CITY OWNED PARCEL FRONTING THE EAST SIDE OF SAN CELESTE ROAD BETWEEN SAN MICHELE ROAD AND RIVARD ROAD

WHEREAS, the City of Moreno Valley owns a vacant land parcel identified as APN 316-190-035 fronting the east side of San Celeste Road between San Michele Road and Rivard Road; and

WHEREAS, this parcel may be developed in the future; and

WHEREAS, the City of Moreno Valley wishes to grant easement right-of-way for public highway purposes, including public utilities, private utilities permitted within the City, and public service facilities over, under, upon, across and within the real property, for future public use, which dedication is specifically described as:

APN 316-190-035: as described in the legal description marked Exhibit A and depicted on the plat map marked Exhibit B attached to the Resolution and incorporated herein by this reference; and

WHEREAS, the City of Moreno Valley City Council considers this grant of easement to be in the best interest of the City of Moreno Valley and of the public,

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The grant of easement as described above and depicted on Exhibits A and B attached to this Resolution are hereby approved.
2. The Mayor and City Clerk are hereby authorized to and directed to execute the Resolution and the Public Works Director/City Engineer is hereby authorized to and directed to execute the associated Easement Deed on behalf of the City and record document with the County Recorder.
3. This Resolution shall become effective immediately upon adoption.

APPROVED AND ADOPTED this 25th day of February, 2014.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2014-13 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 25th day of February, 2014 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

EXHIBIT "A"
LEGAL DESCRIPTION
RIGHT OF WAY DEDICATION

A PORTION OF LAND LYING WITHIN PARCEL 1 OF PARCEL MAP NO. 12368, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 56, PAGE 85 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

STRIP NO. 1:

THE WESTERLY 39.00 FEET OF SAID PARCEL 1.

THE WESTERLY LINE OF SAID PARCEL 1 BEING THE CENTERLINE OF SAN CELESTE ROAD.

STRIP NO. 2:

BEGINNING AT THE SOUTHEAST CORNER STRIP NO. 1, SAID SOUTHEAST CORNER BEING ON THE SOUTHERLY LINE OF SAID PARCEL 1;

THENCE ALONG SAID SOUTHERLY LINE, SOUTH 89° 29' 47" EAST 38.76 FEET TO A LINE PARALLEL WITH DISTANT EASTERLY 38.76 FEET MEASURED AT RIGHT ANGLES FROM EASTERLY LINE OF SAID STRIP NO. 1;

THENCE ALONG SAID PARALLEL LINE, NORTH 00° 16' 07" EAST 20.00 FEET;

THENCE NORTH 45° 21' 39" WEST 54.34 FEET TO SAID EASTERLY LINE;

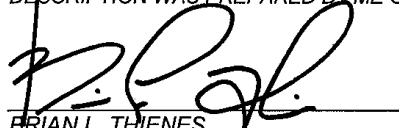
THENCE ALONG SAID EASTERLY LINE, SOUTH 00° 16' 07" WEST 57.84 FEET TO THE **POINT OF BEGINNING**.

CONTAINING: 26,332 SQUARE FEET OR 0.604 ACRES MORE OR LESS.

EXHIBIT "B" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF.

SUBJECT TO: COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, EASEMENTS AND RIGHTS-OF-WAY, IF ANY.

DESCRIPTION WAS PREPARED BY ME OR UNDER MY DIRECTION.



BRIAN L. THIENES
P.L.S. No. 5750
REG. EXP. 12/31/15

1/13/14
DATE



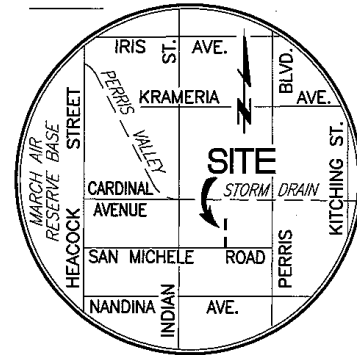
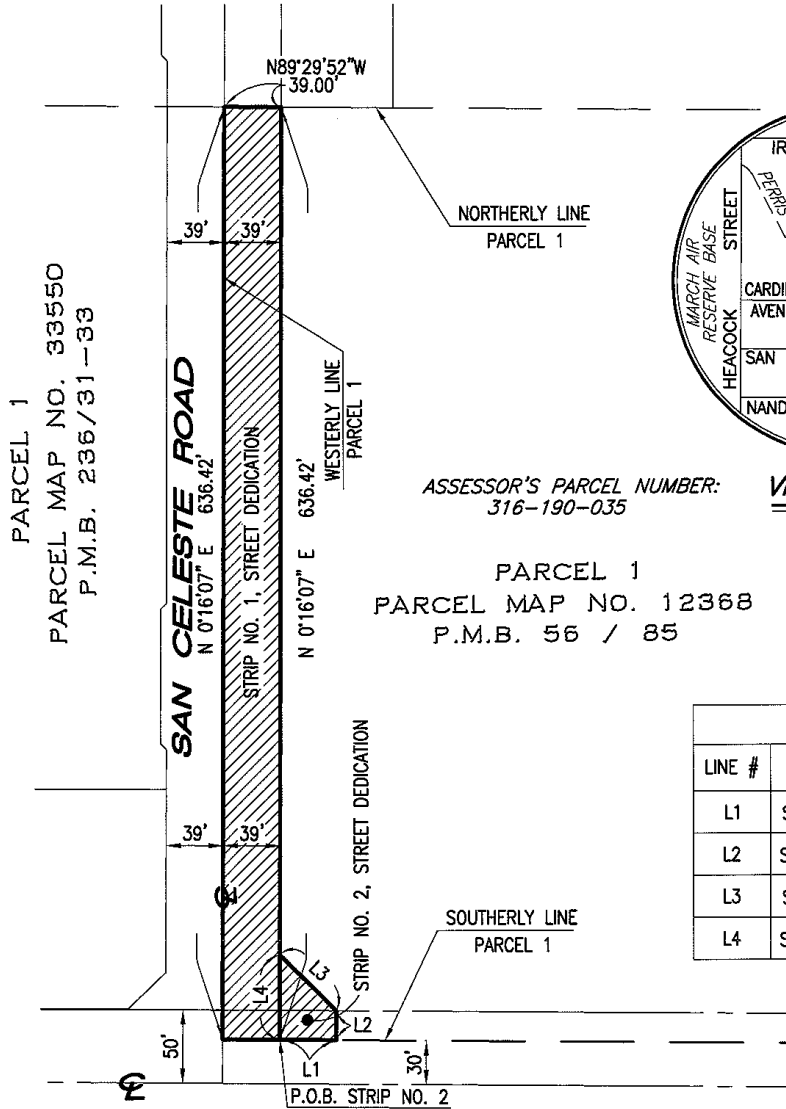
N:\2646\ESMT\2646e_OFFSITE-DED.doc
Last Update: 01/13/14

SCALE: 1" = 100'

EXHIBIT "B"

RIGHT OF WAY DEDICATION

SHEET 1 OF 1



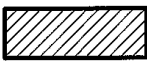
ASSESSOR'S PARCEL NUMBER:
316-190-035

VICINITY MAP
N.T.S.

PARCEL 1
PARCEL MAP NO. 12368
P.M.B. 56 / 85

LINE TABLE		
LINE #	BEARING	LENGTH
L1	S 89°29'47" E	38.76'
L2	S 00°16'07" W	20.00'
L3	S 45°21'39" E	54.34'
L4	S 00°16'07" W	57.84'

LEGEND:



INDICATES RIGHT OF WAY DEDICATION TO THE CITY OF MORENO VALLEY.
CONTAINS: 26,332 SQ. FT.
0.604 AC. ±

Last Update: 1/13/14
N:\2600-2699\2646\ESMT\OFF-SITE DED\2646e_OFFSITE_DED.dwg

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

SURVEYOR:

PREPARED UNDER THE SUPERVISION OF:

[Signature] 1/13/14
DATE
BRIAN L. THIENES
P.L.S. NO. 5750
REG. EXP. DEC. 31, 2015



SAN MICHELE ROAD

5
Resolution No. 2014-13
Date Adopted: February 25, 2014

Item No. A.6

This page intentionally left blank.

Recording requested by and when recorded, mail to:
City Clerk
City of Moreno Valley
P.O. Box 88005
Moreno Valley, CA 92552-0805

Attachment 3

Exempt from Recording Fee per
Govt. Code Sec. 6103
City of Moreno Valley
A.P.N. 316 - 190 - 035

(Space above this line for Recorder's use)
DOCUMENTARY TRANSFER TAX IS NONE.
Public Agency exempt.
Revenue and Taxation Code Section 11922

EASEMENT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **City of Moreno Valley** herein called GRANTOR, hereby grants and conveys to the CITY OF MORENO VALLEY, a municipal corporation, the right, power, privilege, and perpetual easement and right of way for public highway purposes, including public utilities, private utilities permitted by the City, and public service facilities over, under, upon, across, and within the real property in the City of Moreno Valley, County of Riverside, State of California, described on the attached legal description and illustrated on the plat attached hereto and marked ***Exhibits "A" and "B"*** respectively.

IN WITNESS WHEREOF, this instrument has been executed this _____ day of _____, 2014.

GRANTOR:

City of Moreno Valley, a municipal corporation

By: _____
Ahmad R. Ansari, P.E. Date
Public Works Director/City Engineer

STATE OF CALIFORNIA)
County of _____)ss.

On _____ before me, _____, a Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____
Signature of Notary Public

Place Notary Seal Above

EXHIBIT "A"
LEGAL DESCRIPTION
RIGHT OF WAY DEDICATION

A PORTION OF LAND LYING WITHIN PARCEL 1 OF PARCEL MAP NO. 12368, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 56, PAGE 85 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

STRIP NO. 1:

THE WESTERLY 39.00 FEET OF SAID PARCEL 1.

THE WESTERLY LINE OF SAID PARCEL 1 BEING THE CENTERLINE OF SAN CELESTE ROAD.

STRIP NO. 2:

BEGINNING AT THE SOUTHEAST CORNER STRIP NO. 1, SAID SOUTHEAST CORNER BEING ON THE SOUTHERLY LINE OF SAID PARCEL 1;

THENCE ALONG SAID SOUTHERLY LINE, SOUTH 89° 29' 47" EAST 38.76 FEET TO A LINE PARALLEL WITH DISTANT EASTERLY 38.76 FEET MEASURED AT RIGHT ANGLES FROM EASTERLY LINE OF SAID STRIP NO. 1;

THENCE ALONG SAID PARALLEL LINE, NORTH 00° 16' 07" EAST 20.00 FEET;

THENCE NORTH 45° 21' 39" WEST 54.34 FEET TO SAID EASTERLY LINE;


THENCE ALONG SAID EASTERLY LINE, SOUTH 00° 16' 07" WEST 57.84 FEET TO THE **POINT OF BEGINNING**.

CONTAINING: 26,332 SQUARE FEET OR 0.604 ACRES MORE OR LESS.

EXHIBIT "B" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF.

SUBJECT TO: COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, EASEMENTS AND RIGHTS-OF-WAY, IF ANY.

DESCRIPTION WAS PREPARED BY ME OR UNDER MY DIRECTION.



BRIAN L. THIENES
P.L.S. No. 5750
REG. EXP. 12/31/15

1/13/14
DATE

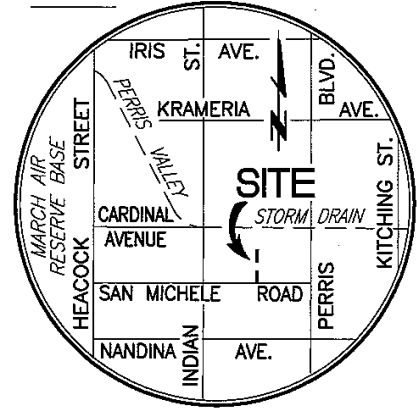
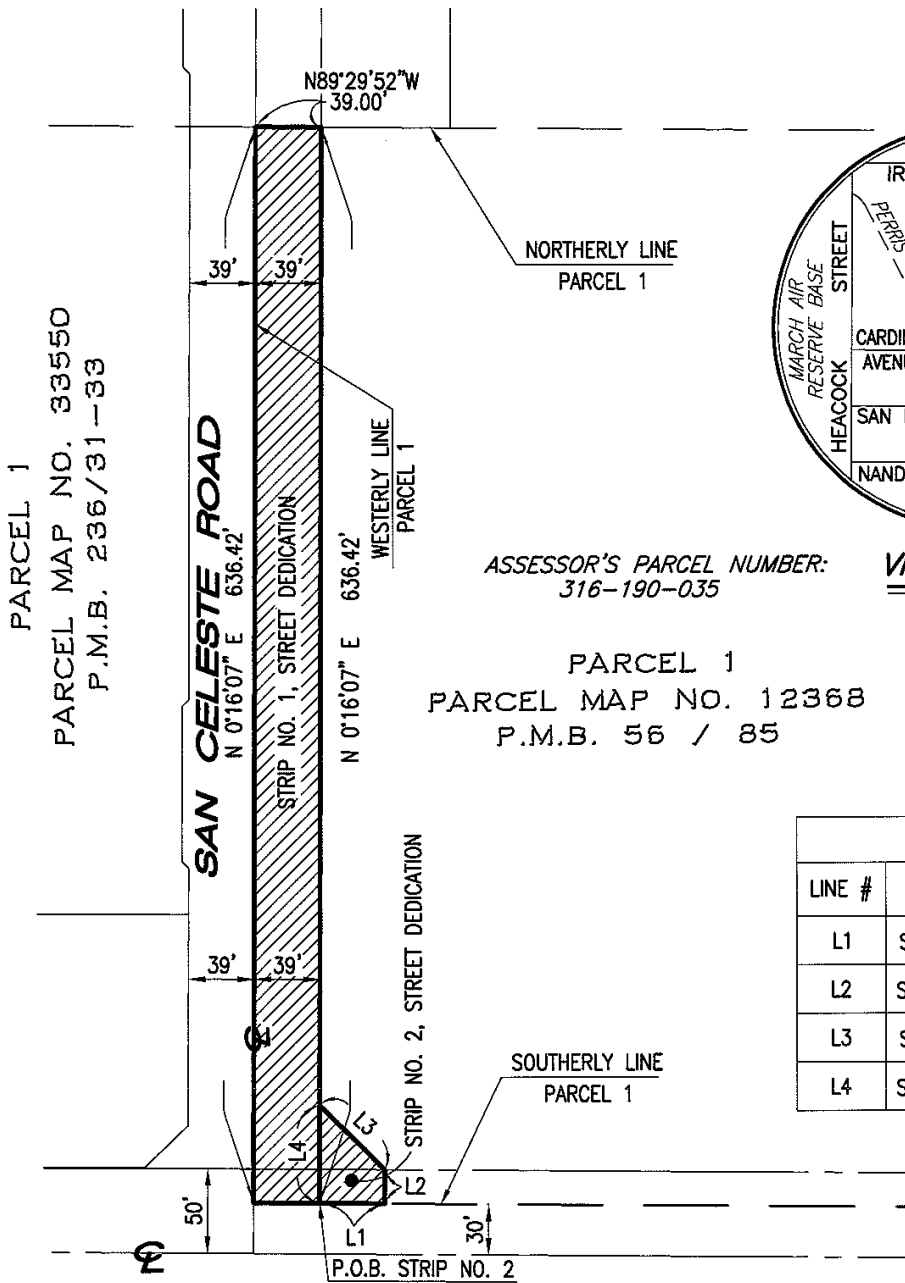


N:\2646\ESMT\2646e_OFFSITE-DED.doc
Last Update: 01/13/14

SCALE: 1" = 100'

EXHIBIT "B"
RIGHT OF WAY DEDICATION

SHEET 1 OF 1



ASSESSOR'S PARCEL NUMBER:
316-190-035

VICINITY MAP
N.T.S.

PARCEL 1
PARCEL MAP NO. 12368
P.M.B. 56 / 85

LINE TABLE		
LINE #	BEARING	LENGTH
L1	S 89°29'47" E	38.76'
L2	S 00°16'07" W	20.00'
L3	S 45°21'39" E	54.34'
L4	S 00°16'07" W	57.84'

LEGEND:



INDICATES RIGHT OF WAY DEDICATION TO THE CITY OF MORENO VALLEY.
CONTAINS: 26,332 SQ. FT.
0.604 AC. ±

Last Update: 1/13/14
N:\2600-2699\2646\ESMT\OFF-SITE DED\2646e_OFFSITE_DED.dwg

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

SURVEYOR:

PREPARED UNDER THE SUPERVISION OF:

[Signature] 1/13/14
DATE

BRIAN L. THIENES
P.L.S. NO. 5750
REG. EXP. DEC. 31, 2015



This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: APPROVE AND ADOPT RESOLUTION NO. 2014-14 ACCEPTING DEDICATION OF PROPERTY FOR PUBLIC RIGHT-OF-WAY AND ACCEPTING THE IMPROVED PORTIONS OF KENTLAND LANE SOUTH OF EUCALYPTUS AVENUE, WILSON PLACE, AND KENNY DRIVE INTO THE CITY MAINTAINED ROAD SYSTEM, PROJECT NO. 801 0011 70 77

RECOMMENDED ACTION

Recommendations:

1. Approve and adopt Resolution No. 2014-14 accepting dedication of property for public right-of-way and accepting the improved portions of Kentland Lane south of Eucalyptus Avenue, Wilson Place, and Kenny Drive into the City maintained road system.
2. Direct the City Engineer to certify the acceptance of said dedication and cause said certification to be recorded at the office of the Recorder of the County of Riverside together with said Resolution.

SUMMARY

This report recommends City Council approve and adopt the proposed Resolution accepting the dedication of property for public right of way and accepting the improved portion of Kentland Lane south of Eucalyptus Avenue, Wilson Place, and Kenny Drive into the City maintained road system.

DISCUSSION

The Street Improvement Program (SIP) is a multi-year Capital Improvement Plan (CIP) to facilitate construction of selected unimproved streets. The streets to be improved are

selected from a list of streets demonstrating the need for improvement per established review criteria for public road, utility, and public service purposes.

The City Council approved the Fiscal Year 2012/2013 CIP budget with the following streets listed for improvement in the SIP: Kentland Lane south of Eucalyptus Avenue, Wilson Place from Hubbard Street to Kenny Drive, and Kenny Drive from Wilson Place to Hilton Street. Each of these streets was either paved with deteriorating asphalt concrete or was native material. The completed project resulted in the streets being paved with twenty-four (24) feet (two lanes) of asphalt concrete pavement, striping, and signage. The improvements also included drainage, driveway construction, mailbox and utility relocations.

The design and construction documents were prepared by in-house staff as a cost saving solution for the City. In October 2012 the City Engineer approved the Plans and Specifications for the project, and authorized the advertisement for construction bids.

On December 11, 2012 the City Council awarded the construction contract to C & C Grading & Paving, Inc. Construction was completed on-time and within budget, and the Notice of Completion was recorded by the County on June 24, 2013.

The City Council is being asked to adopt the proposed Resolution accepting dedication of property for public right-of-way and accepting the identified portions of streets into the City maintained road system.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for acceptance of the improvements into the City's maintained road system.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will result in delaying acceptance of the improvements into the City's maintained road system.*

FISCAL IMPACT

This project is complete. The estimated average annual cost for the maintenance of the portions of street identified in this staff report is approximately \$6,100. Currently no new funding source has been identified to fund these maintenance costs.

CITY COUNCIL GOALS

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

ATTACHMENTS

Attachment 1: Location Map
Attachment 2: Proposed Resolution

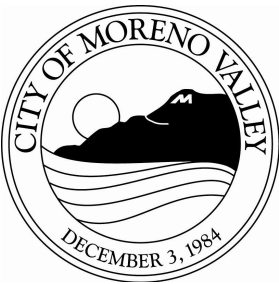
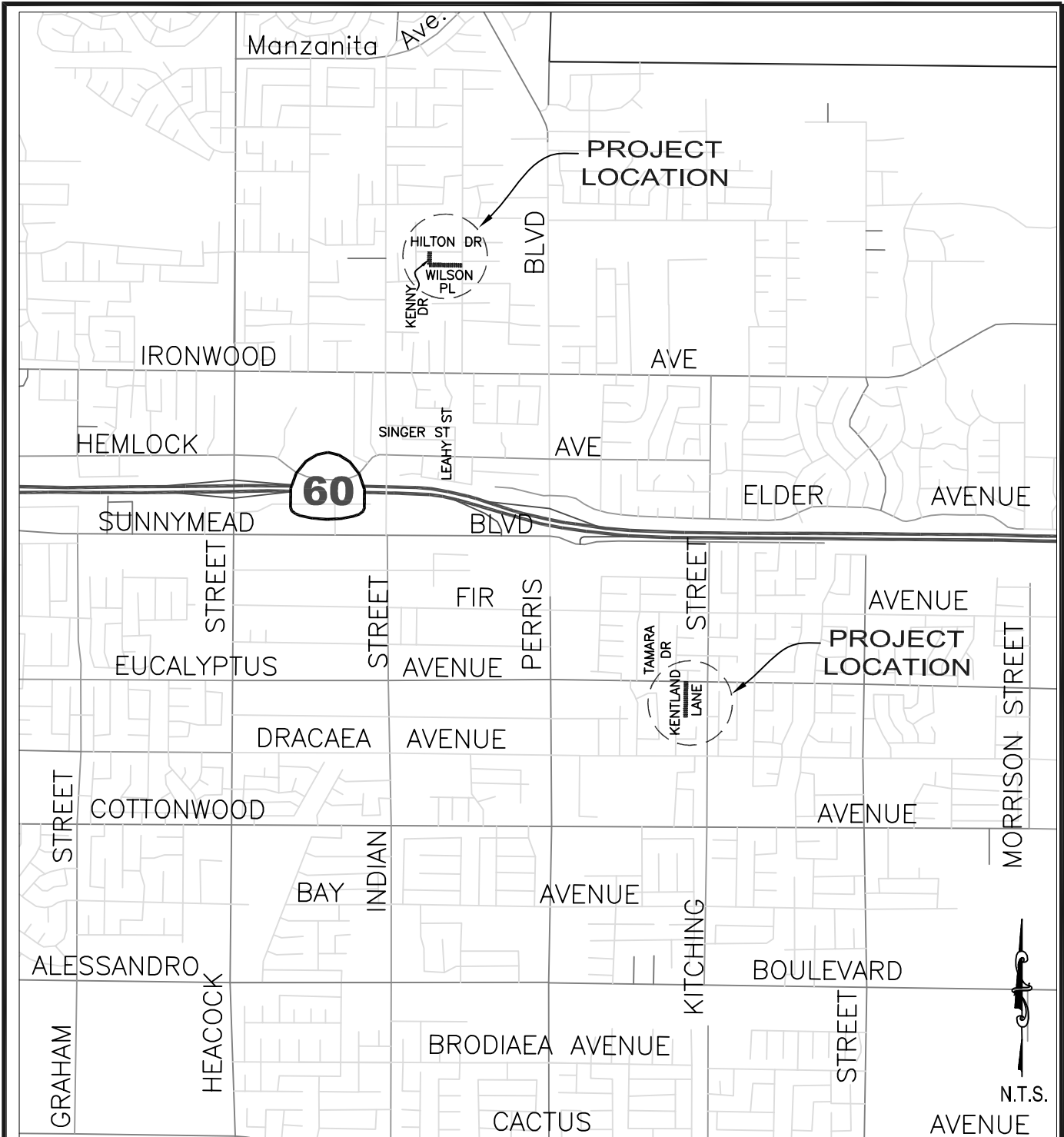
Prepared By:
Henry Ngo
Senior Engineer, P.E.

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer

This page intentionally left blank.

W:\CAPP\PROJECTS\HENRY - 02-12-18\620 - SIP FOR PRIV STWENTLAND\WINDMILL\CON\MINNY\DESIGN PHASE\AUTO CAD\FY13-13_LOC_MAP.DWG



LOCATION MAP

Public Works Department
Capital Projects Division

Scale: None

ATTACHMENT 1

STREET IMPROVEMENT PROGRAM

KENTLAND LANE, WILSON PLACE, AND KENNY DRIVE

PROJECT No. 801 0011 70 77

This page intentionally left blank.

RESOLUTION NO. 2014-14

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ACCEPTING DEDICATION OF PROPERTY FOR PUBLIC RIGHT-OF-WAY AND ACCEPTING THE IMPROVED PORTIONS OF KENTLAND LANE SOUTH OF EUCALYPTUS AVENUE, WILSON PLACE, AND KENNY DRIVE INTO THE CITY MAINTAINED ROAD SYSTEM

WHEREAS, each parcel of the real property hereinafter described was heretofore a portion of the real property offered for dedication to use for public road, utility, and public service purposes, which said offers of dedication have not heretofore been accepted by the City Council; and said portions of offers of dedication are more particularly described and shown in Exhibit "A" attached hereto and made a part hereof for the following streets: Kentland Lane south of Eucalyptus Avenue, Wilson Place, and Kenny Drive.

WHEREAS, public convenience and welfare now require the use by the public of the above described real property for public road, utility, and public service purposes; and

WHEREAS, the above-described property is only a portion of the property offered for dedication and the remaining unaccepted portions of the offers of dedication shall be available for acceptance by future action of the City Council; and

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. The property described herein is hereby accepted for public road, utility, and public service purposes.
2. The improved portions of Kentland Lane south of Eucalyptus Avenue, Wilson Place, and Kenny Drive are accepted into the City maintained road system.
3. The City Engineer shall certify to the acceptance of said property and cause said certification to be recorded in the office of the Recorder of the County of Riverside together with this Resolution.

1
Resolution No. 2014-14
Date Adopted: February 25, 2014

APPROVED AND ADOPTED this 25th day of February 2014.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

Resolution No. 2014-14²
Date Adopted: February 25, 2014

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2014-14 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 25th day of February 2014 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

3
Resolution No. 2014-14
Date Adopted: February 25, 2014

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council acting in their capacity as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley

FROM: John Terell, Community & Economic Development Director

AGENDA DATE: February 25, 2014

TITLE: RESOLUTION OF THE CITY OF MORENO VALLEY SERVING AS THE SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY APPROVING THE RECOGNIZED OBLIGATION PAYMENT SCHEDULE INCLUDING ADMINISTRATIVE BUDGET FOR THE PERIOD OF JULY 1, 2014 THROUGH DECEMBER 31, 2014 (ROPS 14-15A)

RECOMMENDED ACTION

Recommendations:

1. Adopt Resolution No. SA 2014-01. A Resolution of the City Council of the City of Moreno Valley, California, serving as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley approving the Recognized Obligation Payment Schedule (ROPS 14-15A), including administrative budget, for the period of July 1, 2014 through December 31, 2014 and authorizing the Executive Director or his designee to make modifications thereto.
2. Authorize the Executive Director or his designee to make modifications to the Schedule.
3. Authorize the transmittal of the ROPS 14-15A to the Oversight Board for review and approval.

BACKGROUND

ABX1 26 requires the Successor Agency to approve a Recognized Obligation Payment Schedule (“ROPS”) for each six-month period. The required content of the ROPS, set forth in Health and Safety Code Section 34177(l)(1), details all of the Agency’s legally binding and enforceable obligations, anticipated payments, and sources of payments. Recognized obligations include bonds, loans, judgments, settlements, any legally binding and enforceable agreements or contracts, and contracts and agreements for agency administration or operation.

AB 1484 further clarifies certain matters associated with the dissolution of RDAs and addresses substantive issues related to administrative processes, affordable housing activities, and repayment of loans from communities, use of existing bond proceeds, and the disposition or retention of former Community Redevelopment Agency of the City of Moreno Valley (“RDA”) assets.

The City of Moreno Valley is the Successor Agency for the former RDA pursuant to Part 1.85 of Division 24 of the Health and Safety Code. As Successor Agency, the City is responsible for winding down the affairs of the redevelopment agency including disposing of its assets; making payments and performing other obligations due for Enforceable Obligations of the former RDA. In order to facilitate the process, the City Council has adopted the following Resolutions:

- Resolution No. 2012-13, adopted on February 28, 2012, approving a Recognized Obligation Payment Schedule for the period of January 1, 2012 through June 30, 2012.
- Resolution No. 2012-22, adopted on April 10, 2012, approving a Second Recognized Obligation Payment Schedule for the period of July 1, 2012 through December 31, 2012.
- Resolution No. 2013-02, adopted on February 26, 2013, approving a Recognized Obligation Payment Schedule (ROPS 13-14A) for the period of July 1, 2013 through December 31, 2013.
- Resolution No. 2013-09, adopted on September 24, 2013, approving a Recognized Obligation Payment Schedule (ROPS 13-14B) for the period of January 1, 2014 through June 30, 2014.

DISCUSSION

Enforceable Obligation Payment Schedule

In accordance with ABX1 26, the Successor Agency is required to adopt an Enforceable Obligation Payment Schedule (“EOPS”). The EOPS lists all of the Agency’s legally binding and enforceable agreement obligations and anticipated payments. Enforceable obligations include bonds, loans, judgments, settlements, any legally binding and

enforceable agreements or contracts, and contracts and agreements for agency administration or operation costs.

Section 34177(a)(1) of ABX1 26 provides that upon the dissolution of the Agency, the Successor Agency may only make those payments required pursuant to the most recent Enforceable Obligation Payment Schedule adopted by the Agency and the Successor Agency, and until such time the Recognized Obligation Payment Schedule becomes operative.

Recognized Obligation Payment Schedule

ABX1 26 requires the Successor Agency to approve a Recognized Obligation Payment Schedule. The ROPS supersedes the EOPS, and is required for each six-month period.

Similar to the EOPS, the required content of the ROPS, set forth in Health and Safety Code Section 34177(l)(1), details all of the Agency's legally binding and enforceable obligations, anticipated payments, and sources of payments. Recognized obligations include bonds, loans, judgments, settlements, any legally binding and enforceable agreements or contracts, and contracts and agreements for agency administration or operation costs. The attached ROPS 14-15A, including administrative budget, sets forth the enforceable obligations for the period of July 1, 2014 through December 31, 2014.

Once approved, the ROPS 14-15A, including administrative budget, will be submitted to the Oversight Board for review and approval. Upon approval by the Oversight Board, a copy of the approved ROPS will be transmitted to the County-Auditor Controller, the State Controller's Office, the Department of Finance, and posted to the City's website.

ALTERNATIVES

1. Adopt the attached proposed resolution, which approves the Recognized Obligation Payment Schedule, including administrative budget, for the period of July 1, 2014 through December 31, 2014, and authorizing the transmittal of said Schedules to the Oversight Board for review and approval. *Staff recommends this alternative because it allows the City serving as the Successor Agency to make required debt service payments in accordance with the State legislation.*
2. Decline to adopt the attached proposed resolution which would not allow the City, serving as the Successor Agency, to maintain the operations, and fulfill debt obligations of the former RDA as required by law. *Staff does not recommend this alternative.*

FISCAL IMPACT

The Recognized Obligation Payment Schedule provides the details necessary for the City serving as the Successor Agency to fulfill the former RDA's legally binding and enforceable agreements. The ROPS 14-15A will serve as authorization to pay obligations listed during the noted period including allowable administrative costs of

\$125,000. Any existing obligation payment amounts identified on the ROPS have previously been approved within the adopted budget. New obligations requested on the ROPS 14-15A will require budget adjustments once they are adopted by the Oversight Board and approved by the Department of Finance.

With the dissolution of the former RDA, there are continued risks that the payment of certain agreements may not be approved by the California Department of Finance, which will impact the General Fund. When these costs can be considered a short-term loan from the City to the Successor Agency and thus considered an enforceable obligation of the Successor Agency, the City shall seek reimbursement as available.

SUMMARY

As Successor Agency, the City is responsible for winding down the affairs of the former RDA including disposing of its assets; making payments and performing other obligations due for Enforceable Obligations. The Recognized Obligation Payment Schedules for the stated periods provide the details necessary for the City serving as the Successor Agency to fulfill the former RDA's legally binding and enforceable agreements as required by law.

NOTIFICATION

The agenda for the meeting during which this item may be considered has been posted in the three locations that have been designated for the posting of City Council agendas.

ATTACHMENTS

Attachment 1 – Proposed Resolution
Exhibit A -Recognized Obligation Payment Schedule (ROPS 14-15A)

Prepared By:
Anochar Clark
Sr. Financial Analyst

Department Head Approval:
John Terrell
Community & Economic Development
Director

RESOLUTION NO. SA 2014-01

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, SERVING AS SUCCESSOR AGENCY TO THE COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY APPROVING THE RECOGNIZED OBLIGATION PAYMENT SCHEDULE, INCLUDING ADMINISTRATIVE BUDGET, FOR THE PERIOD OF JULY 1, 2014 THROUGH DECEMBER 31, 2014 AND AUTHORIZING THE EXECUTIVE DIRECTOR OR HIS DESIGNEE TO MAKE MODIFICATIONS THERETO

WHEREAS, the Community Redevelopment Agency of the City of Moreno Valley (“Agency”) is a community redevelopment agency organized and existing under the California Community Redevelopment Law, Health and Safety Code Sections 33000, et seq. (“CRL”) and has been authorized to transact business and exercise the powers of a redevelopment agency pursuant to action of the City Council (“City Council”) of the City of Moreno Valley (“City”); and

WHEREAS, the Agency was established pursuant to the Redevelopment Law. The Agency was activated on February 18, 1986, by City Ordinance No. 50. The City Council adopted and approved the Redevelopment Plan for the Project Area by Ordinance 87-154 of the City on December 29, 1987 (the “Original Plan”), as subsequently amended by Ordinance No. 448 of the City adopted January 10, 1995, Ordinance No. 556 of the City adopted December 14, 1999, and Ordinance No. 732 adopted December 19, 2006 (as so amended, the “Amended Redevelopment Plan”, the area of which is referred to herein as the “Project Area”); and

WHEREAS, Parts 1.8, 1.85 and 1.9 of Division 24 of the Health and Safety Code were added to the CRL by ABX1 26 and ABX1 27, which measures purport to become effective immediately. ABX1 26 and ABX1 27, which are trailer bills to the 2011-12 budget bills, were approved by both houses of the Legislature on June 15, 2011 and signed by the Governor on June 28, 2011; and

WHEREAS, Part 1.85 of the CRL (“Part 1.85”) provides for the statewide dissolution of all redevelopment agencies, including the Agency, as of October 1, 2011 (which dated has been deemed to be February 1, 2012 pursuant to a decision by the California Supreme Court), and provides that, thereafter, a successor agency to administer the enforceable obligations of the Agency and otherwise wind up the Agency’s affairs, all subject to the review and approval by an oversight committee; and

WHEREAS, Part 1.8 of the CRL (“Part 1.8”) provides for the restriction of activities and authority of the Agency in the interim period prior to dissolution to certain “enforceable obligations” and to actions required for the general winding up of affairs, preservation of assets, and certain other goals delineated in Part 1.8; and

1
Resolution No. SA 2014-01
Date Adopted: February 25, 2014

WHEREAS, in connection with the implementation of those provisions of ABX1 26 which require the adoption of an enforceable obligation schedule, the City serving as the Successor Agency has previously adopted an amended enforceable obligation schedule in the form previously submitted (the "Amended Enforceable Obligation Schedule") and has authorized the City Manager or his designee to augment, modify or revise such Amended Enforceable Obligation Schedule; and

WHEREAS, ABX1 26 further requires the adoption of an Initial Recognized Obligation Payment Schedule; such initial Recognized Obligation Payment Schedule was approved by Resolution No. 2012-13 of the City of Moreno Valley serving as Successor Agency to the Community Redevelopment Agency of the City of Moreno Valley ("Successor Agency") on February 28, 2012; and

WHEREAS, ABX1 26 further requires the adoption of a Recognized Obligation Payment Schedule for every six month period; and

WHEREAS, an oversight board, as provided under ABX1 26 ("Oversight Board") has been established for the former Agency; and

WHEREAS, pursuant to ABX1 26 and the implementation thereof, the Successor Agency desires to adopt a Recognized Obligation Payment Schedule, including administrative budget, for the period covering July 1, 2014 through December 31, 2014 ("ROPS 14-15A"), in the form submitted herewith. The ROPS 14-15A is attached hereto, marked as Exhibit "A", and is incorporated herein by reference. By this resolution, the City Council, on behalf of the Successor Agency, approves and authorizes the transmittal of the ROPS 14-15A to the Oversight Board; and

WHEREAS, given the adoption of ABX1 26, the City Council, on behalf of the City acting in its capacity as Successor Agency to the Agency, has duly considered this Resolution and has determined that the adoption of this Resolution is in the best interests of the City, in its capacity as Successor Agency to the Agency, and the health, safety, and welfare of the residents of the City, and in accord with the public purposes and provisions of applicable state and local laws and requirements.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, SERVING AS THE SUCCESSOR AGENCY, DOES HEREBY RESOLVE AS FOLLOWS:

SECTION 1. The foregoing recitals are incorporated into this resolution by this reference, and constitute a material part of this resolution.

SECTION 2. The Successor Agency approves for transmittal to the Oversight Board the Recognized Obligation Payment Schedule for the period July 1, 2014 through December 31, 2014 ("Exhibit A"), with such augmentation, modification, additions or

2
Resolution No. SA 2014-01
Date Adopted: February 25, 2014

revisions as the Executive Director of the Successor Agency or his designee may make before transmittal to the Oversight Board.

SECTION 3. The Successor Agency is authorized and directed to submit ROPS 14-15A to the California Department of Finance upon approval by the Oversight Board.

SECTION 4. The Successor Agency shall maintain on file as a public record this Resolution and ROPS 14-15A as approved hereby.

SECTION 5. This Resolution shall be effective immediately upon adoption.

SECTION 6. The City Clerk shall certify to the adoption of this resolution.

APPROVED AND ADOPTED this 25th day of February 2014.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

3
Resolution No. SA 2014-01
Date Adopted: February 25, 2014

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. SA 2014-01 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 25th day of February, 2014 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

4
Resolution No. SA 2014-01
Date Adopted: February 25, 2014

Recognized Obligation Payment Schedule (ROPS 14-15A) - Summary

Filed for the July 1, 2014 through December 31, 2014 Period

Name of Successor Agency: Moreno Valley
Name of County: Riverside

Current Period Requested Funding for Outstanding Debt or Obligation		Six-Month Total
Enforceable Obligations Funded with Non-Redevelopment Property Tax Trust Fund (RPTTF) Funding		
A Sources (B+C+D):		\$ 1,242,142
B Bond Proceeds Funding (ROPS Detail)		-
C Reserve Balance Funding (ROPS Detail)		1,242,142
D Other Funding (ROPS Detail)		-
E Enforceable Obligations Funded with RPTTF Funding (F+G):		\$ 3,167,215
F Non-Administrative Costs (ROPS Detail)		3,042,215
G Administrative Costs (ROPS Detail)		125,000
H Current Period Enforceable Obligations (A+E):		\$ 4,409,357
Successor Agency Self-Reported Prior Period Adjustment to Current Period RPTTF Requested Funding		
I Enforceable Obligations funded with RPTTF (E):		3,167,215
J Less Prior Period Adjustment (Report of Prior Period Adjustments Column S)		(24,040)
K Adjusted Current Period RPTTF Requested Funding (I-J)		\$ 3,143,175
County Auditor Controller Reported Prior Period Adjustment to Current Period RPTTF Requested Funding		
L Enforceable Obligations funded with RPTTF (E):		3,167,215
M Less Prior Period Adjustment (Report of Prior Period Adjustments Column AA)		-
N Adjusted Current Period RPTTF Requested Funding (L-M)		3,167,215

Certification of Oversight Board Chairman:
Pursuant to Section 34177(m) of the Health and Safety code, I hereby certify that the above is a true and accurate Recognized Obligation Payment Schedule for the above named agency.

Name Title
/s/ _____
Signature Date

-213-

Item No. A.8

Recognized Obligation Payment Schedule (ROPS) 14-15A - ROPS Detail
July 1, 2014 through December 31, 2014
 (Report Amounts in Whole Dollars)

Item #	Project Name / Debt Obligation	Obligation Type	Contract/Agreement Execution Date	Contract/Agreement Termination Date	Payee	Description/Project Scope	Project Area	Total Outstanding Debt or Obligation	Retired	Funding Source					Six-Month Total
										Non-Redevelopment Property Tax Trust Fund (Non-RPTTF)			RPTTF		
										Bond Proceeds	Reserve Balance	Other Funds	Non-Admin	Admin	
							\$ 117,009,289			\$ -	\$ 1,242,142	\$ -	\$ 3,042,215	\$ 125,000	\$ 4,409,357
1	2007 Tax Allocation Bonds	Bonds Issued On or Before 12/31/10	11/29/2007	8/1/2038	Wells Fargo Bank	Debt service payments for bonds	Original Area	77,156,138	N		1,242,142				\$ 1,242,142
2	2007 Special Tax Refunding Bonds - Towngate 87-1	Bonds Issued On or Before 12/31/10	11/29/2007	12/1/2021	Wells Fargo Bank	Debt service payments for bonds issued to finance the acquisition of public facilities	Original Area	8,363,986	N				593,119		\$ 593,119
3	Improvement Area No. 1 Special Tax Refunding Bonds	Bonds Issued On or Before 12/31/10	11/29/2007	10/1/2023	Wells Fargo Bank	Debt service payments for bonds issued to finance the construction of public facilities	Original Area	2,456,749	N				138,948		\$ 138,948
5	2011 Refunding of 97 LRB Bonds	Revenue Bonds Issued After 12/31/10	1/1/2011	11/1/2022	Bank of America	Debt service payments for bonds issued to finance the construction of a public facility	Original Area	1,200,000	N				75,000		\$ 75,000
6	2005 Lease Revenue Bonds	City/County Loans On or Before 6/27/11	6/1/2005	11/1/2035	Wells Fargo Bank	Debt service payments for bonds issued to finance Sunnymead Blvd project	Original Area		N						
7	On-going Housing Monitoring Requirements	Project Management Costs	1/1/2014	6/30/2014	City of Moreno Valley/Successor Agency	Costs to perform the recertification and monitoring of housing units	Original Area	25,000	N				25,000		\$ 25,000
8	Contract for Legal Services	Admin Costs	1/1/2014	6/30/2014	Stradling, Yocca, Carlson & Rauth	Legal services - General	Original Area	-	N						\$ -
9	Contract for Legal Services	Admin Costs	1/1/2014	6/30/2014	Kronick Moskovitz Tiedemann & Girard	Legal services - Oversight Board Legal Counsel	Original Area	-	N						\$ -
10	Contract for Abatement of Properties	Property Maintenance	7/1/2009	7/30/2014	Fire Prevention/Inland Empire Property Service, Inc.	Nuisance/weed abatement of Agency owned properties	Original Area	3,000	N				3,000		\$ 3,000
11	Contract for Audit Services	Admin Costs	2/10/2011	1/1/2014	Lance Soll & Iunghard, LLP or Approved Audit Firm	Preparation of Annual Audit	Original Area	-	N						\$ -
12	Contract for Special Tax Reporting	Admin Costs	1/1/2011	1/1/2014	Willdan/Staff Administration	Preparation of Continuing Disclosure Report	Original Area	-	N						\$ -
13	CalPERS Retirement Liability	Unfunded Liabilities	7/1/2012	7/1/2031	The California Public Employees' Retirement System (CalPERS)	Unfunded PERS Retirement Liability Acct	Original Area	572,282	N				13,855		\$ 13,855
14	Retiree Medical Trust (CERBT)	Unfunded Liabilities	7/1/2012	7/1/2031	California Employers' Retiree Medical Trust(CERBT)/CalPERS	Unfunded Retiree Medical Trust Acct	Original Area	184,297	N				4,462		\$ 4,462
15	Agency Loans #1 & # 2	City/County Loans On or Before 6/27/11	1/23/2007	6/30/2028	City of Moreno Valley	City/Agency Loan Agreement	Original Area		N						
16	Price Club Acquisition Note	Third-Party Loans	5/7/1992	5/7/2015	The Price Family Charitable Fund	Participation Agreement	Original Area	522,665	N				300,000		\$ 300,000
17	Towngate Acquisition Note	City/County Loans After 6/27/11	5/3/2004	6/30/2044	City of Moreno Valley	Participation Agreement	Original Area	16,331,341	N				320,000		\$ 320,000
19	Robertson's Ready Mix, Inc. OPA	OPA/DDA/Construction	9/26/2006	9/30/2028	Robertson's Ready Mix, Inc.	Owner Participation Agreement	Original Area		N						
20	Hemlock Family Apartments	Third-Party Loans	3/8/2011	6/30/2014	Rancho Belago, Inc.	Affordable Housing Agreement	Original Area	-	Y						\$ -
21	Rancho Dorado Apts - South (Second Phase)	Third-Party Loans	3/8/2011	12/31/2014	Moreno Valley Housing Authority/MV Rancho Dorado Limited Partnership	Affordable Housing Agreement	Original Area	-	Y						\$ -
24	Payroll Costs/Operating Costs	Admin Costs	1/1/2014	6/30/2014	City of Moreno Valley/Employees	Successor Agency's Payroll & Operating Costs	Original Area	125,000	N					125,000	\$ 125,000
82	Hemlock Family Apartments	Professional Services	1/1/2014	6/30/2014	Strickler Association	Project Management	Original Area	-	Y						\$ -
83	Public Works Agreement	City/County Loans After 6/27/11	9/25/2013	7/30/2029	City of Moreno Valley	Public Works Agreement	Original Area	9,100,000	N				600,000		\$ 600,000
85	RiverPark Mortgage-Reimbursement Legal Counsel	Litigation	4/1/2014	6/30/2014	Price, Postel & Parma	Defend Lawsuit entitled Ramirez, Audrey, et al. City of Oxnard	HERO	-	-N						\$ -
86	HERO DDA Esplanade Re-use Project	OPA/DDA/Construction	10/18/2000	6/30/2014	Home Depot Development of Maryland IC.	Tax Increment Tax Sharing Payments	HERO	-	-N						\$ -
84	Agency Loan	City/County Loans On or Before 6/27/11	1/23/2007	6/30/2028	City of Moreno Valley	City/Agency Loan Agreement	Original Area	674,369	N				674,369		\$ 674,369

Recognized Obligation Payment Schedule (ROPS) 14-15A - ROPS Detail
July 1, 2014 through December 31, 2014
 (Report Amounts in Whole Dollars)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Item #	Project Name / Debt Obligation	Obligation Type	Contract/Agreement Execution Date	Contract/Agreement Termination Date	Payee	Description/Project Scope	Project Area	Total Outstanding Debt or Obligation	Retired	Funding Source					Six-Month Total
										Non-Redevelopment Property Tax Trust Fund (Non-RPTTF)			RPTTF		
										Bond Proceeds	Reserve Balance	Other Funds	Non-Admin	Admin	
85	Unfunded Accrued Leaves Liability	Unfunded Liabilities	7/1/2014	12/31/2014	City of Moreno Valley	Unfunded accrued leaves for Successor Agency's employees	Original Area	144,462	N				144,462		\$ 144,462
86	Housing Entity Administrative Cost Allowance per AB 471	Admin Costs	7/1/2014	12/31/2014	Moreno Valley Housing Authority	Housing entity administrative cost allowance per AB 471	Original Area	150,000	N				150,000		\$ 150,000

Recognized Obligation Payment Schedule (ROPS) 14-15A - Report of Cash Balances
(Report Amounts in Whole Dollars)

Pursuant to Health and Safety Code section 34177(l), Redevelopment Property Tax Trust Fund (RPTTF) may be listed as a source of payment on the ROPS, but only to the extent no other funding source is available or when payment from property tax revenues is required by an enforceable obligation.

A	B	C	D	E	F	G	H	I	
Cash Balance Information by ROPS Period		Fund Sources						Comments	
		Bond Proceeds		Reserve Balance		Other	RPTTF		
		Bonds Issued on or before 12/31/10	Bonds Issued on or after 01/01/11	Prior ROPS period balances and DDR balances retained	Prior ROPS RPTTF distributed as reserve for next bond payment	Rent, Grants, Interest, Etc.	Non-Admin and Admin		
ROPS 13-14A Actuals (07/01/13 - 12/31/13)									
1	Beginning Available Cash Balance (Actual 07/01/13) Note that for the RPTTF, 1 + 2 should tie to columns J and O in the Report of Prior Period Adjustments (PPAs)				1,246,742		209,946	(Column F) Set Aside RPTTF as Reserve from ROPS III	
2	Revenue/Income (Actual 12/31/13) Note that the RPTTF amounts should tie to the ROPS 13-14A distribution from the County Auditor-Controller during June 2013					56,835	2,172,457	(Column G - Investment Income) - (Column H - RPTTF received from ACO on 6/19/2013 for ROPS 13-14A)	
3	Expenditures for ROPS 13-14A Enforceable Obligations (Actual 12/31/13) Note that for the RPTTF, 3 + 4 should tie to columns L and Q in the Report of PPAs				1,246,742		2,505,767	(Column F) 2007 TABS Debt for August 2013	
4	Retention of Available Cash Balance (Actual 12/31/13) Note that the RPTTF amount should only include the retention of reserves for debt service approved in ROPS 13-14A								
5	ROPS 13-14A RPTTF Prior Period Adjustment Note that the RPTTF amount should tie to column S in the Report of PPAs.	No entry required						24,040	
6	Ending Actual Available Cash Balance C to G = (1 + 2 - 3 - 4), H = (1 + 2 - 3 - 4 - 5)	\$ -	\$ -	\$ -	\$ -	\$ 56,835	\$ (147,404)	Negative cash resulted from not enough RPTTF received for ROPS III (RPTTF approved \$7,00,5683 - RPTTF received \$6,610,595.93 - Obligations spent \$6,733,990)	
ROPS 13-14B Estimate (01/01/14 - 06/30/14)									
7	Beginning Available Cash Balance (Actual 01/01/14) (C, D, E, G = 4 + 6, F = H4 + F4 + F6, and H = 5 + 6)	\$ -	\$ -	\$ -	\$ -	\$ 56,835	\$ (123,364)	Negative cash resulted from not enough RPTTF received to fund obligations on ROPS III	
8	Revenue/Income (Estimate 06/30/14) Note that the RPTTF amounts should tie to the ROPS 13-14B distribution from the County Auditor-Controller during January 2014				2,254,284		1,796,426	RPTTF received from ACO on 1/8/2014 for ROPS 13-14 B (Total of \$4,050,710 - reduction of \$29,589 for ROPS III not spent)	
9	Expenditures for 13-14B Enforceable Obligations (Estimate 06/30/14)				1,012,142		1,826,015	(Column F) 2007 TABS Debt for February 2014	
10	Retention of Available Cash Balance (Estimate 06/30/14) Note that the RPTTF amounts may include the retention of reserves for debt service approved in ROPS 13-14B				1,242,142			(Column F) 2007 TABS Debt for August 2014 (ROPS 13-14 B RPTTF - Set aside as reserve)	
11	Ending Estimated Available Cash Balance (7 + 8 - 9 -10)	\$ -	\$ -	\$ -	\$ -	\$ 56,835	\$ (152,953)	\$96,118 will be add to the ROPS 14-15B as a City Loan	

Recognized Obligation Payment Schedule (ROPS) 14-15A - Report of Prior Period Adjustments
 Reported for the ROPS 13-14A (July 1, 2013 through December 31, 2013) Period Pursuant to Health and Safety Code (HSC) section 34186 (a)
 (Report Amounts in Whole Dollars)

ROPS 13-14A Successor Agency (SA) Self-reported Prior Period Adjustments (PPA): Pursuant to HSC Section 34186 (a), SAs are required to report the differences between their actual available funding and their actual expenditures for the ROPS 13-14A (July through December 2013) period. The amount of Redevelopment Property Tax Trust Fund (RPTTF) approved for the ROPS 14-15A (July through December 2014) period will be offset by the SA's self-reported ROPS 13-14A prior period adjustment. HSC Section 34186 (a) also specifies that the prior period adjustments self-reported by SAs are subject to audit by the county auditor-controller (CAC) and the State Controller.																		ROPS 13-14A CAC PPA: To be completed by the CAC upon submittal of the ROPS 14-15A by the SA to Finance and the CAC. Note that CACs will need to enter their own formulas at the line item level pursuant to the manner in which they calculate the PPA. Also note that the admin amounts do not need to be listed at the line item level and may be entered as a lump sum.									
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
Item #	Project Name / Debt Obligation	Non-RPTTF Expenditures						RPTTF Expenditures									Net SA Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	SA Comments	RPTTF Expenditures						Net CAC Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	CAC Comments	
		Bond Proceeds		Reserve Balance		Other Funds		Non-Admin			Admin			Difference (If total actual exceeds total authorized, the total difference is zero)	Net Difference (M+R)	Non-Admin CAC			Admin CAC		Net Difference						
		Authorized	Actual	Authorized	Actual	Authorized	Actual	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)			Net Lesser of Authorized / Available			Actual	Net Lesser of Authorized / Available		Actual	Difference	Net Difference			
		\$ -	\$ -	\$ -	\$ -	\$ 1,246,742	\$ 1,246,742	\$ 2,348,307	\$ 2,348,307	\$ 2,292,216	\$ 2,324,267	\$ 24,040	\$ 181,500	\$ 181,500	\$ 181,500	\$ 181,500	\$ -	\$ 24,040				\$ -			\$ -	\$ -	
1	2007 Tax Allocation	-	-	-	-	1,246,742	1,246,742	-	-	-	-	-	-	-	-	-	-	-	-								
2	2007 Special Tax	-	-	-	-	-	-	591,174	591,174	591,174	591,174	-	-	-	-	-	-	-	-								
3	Improvement Area No. 1 Special Tax Refunding Bonds	-	-	-	-	-	-	138,591	138,591	138,591	138,591	-	-	-	-	-	-	-	-								
4	CFD No. 3 - Auto Mail Refinance	-	-	-	-	-	-	54,725	-	-	-	-	-	-	-	-	-	-	-								
5	2011 Refunding of 97 LRB Bonds	-	-	-	-	-	-	75,000	75,000	75,000	75,000	-	-	-	-	-	-	-	-								
6	2006 Lease Revenue Bonds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
7	On-going Housing Monitoring Requirements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
8	Contract for Legal Services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
9	Contract for Legal Services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
10	Contract for Abatement of Properties	-	-	-	-	-	-	3,750	2,384	2,384	2,094	290	-	-	-	-	-	290									
11	Contract for Audit Services	-	-	-	-	-	-	10,000	10,260	10,000	10,260	-	-	-	-	-	-	-	-								
-217-	Contract for Special x Reporting alPERS Retirement Liability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
-	Retiree Medical Cost (CERBT)	-	-	-	-	-	-	13,855	13,855	13,855	13,855	-	-	-	-	-	-	-	-								
-	Agency Loans #1 -2	-	-	-	-	-	-	4,462	4,462	4,462	4,462	-	-	-	-	-	-	-	-								
-	Ice Club Acquisition Note	-	-	-	-	-	-	240,000	241,106	240,000	241,106	-	-	-	-	-	-	-	-								
17	Towngate Acquisition Note	-	-	-	-	-	-	250,000	304,725	250,000	304,725	-	-	-	-	-	-	-	-								
18	Moss Bros. Autogroup Participation Agreement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
19	Robertson's Ready Mix, Inc. OPA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
20	Hemlock Family Apartments	-	-	-	-	-	-	943,000	943,000	943,000	943,000	-	-	-	-	-	-	-	-								
21	Rancho Dorado Apts - South (Second Phase)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
22	Rancho Dorado Apts - South (Second Phase)	-	-	-	-	-	-	2,500	2,500	2,500	-	2,500	-	-	-	-	-	2,500									
23	Rancho Dorado Apts - South (Second Phase)	-	-	-	-	-	-	1,250	1,250	1,250	-	1,250	-	-	-	-	-	1,250									
24	Payroll Costs/Operating Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
25	Sunnymead Blvd. CIP 79221	-	-	-	-	-	-	20,000	20,000	20,000	-	20,000	-	-	-	-	-	20,000									
26	Sunnymead Blvd. CIP 79221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
27	Sunnymead Blvd. CIP 79221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
28	Sunnymead Blvd. CIP 79221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
29	Sunnymead Blvd. CIP 79221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	1 Drain/Day to wood 9222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	1 Drain/Day to wood 9222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	/Alessandro Cottonwood 9724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	/Alessandro Cottonwood 9724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	/Alessandro Cottonwood 9724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	/Alessandro Cottonwood 9724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	/Alessandro Cottonwood 9724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								

-217-

Item No. A.8

Recognized Obligation Payment Schedule (ROPS) 14-15A - Report of Prior Period Adjustments
 Reported for the ROPS 13-14A (July 1, 2013 through December 31, 2013) Period Pursuant to Health and Safety Code (HSC) section 34186 (a)
 (Report Amounts in Whole Dollars)

Item #	Project Name / Debt Obligation	Successor Agency (SA) Self-reported Prior Period Adjustments (PPA): Pursuant to HSC Section 34186 (a), SAs are required to report the differences between their actual available funding and their actual expenditures for the ROPS 13-14A (July through December 2013) period. The amount of Property Tax Trust Fund (RPTTF) approved for the ROPS 14-15A (July through December 2014) period will be offset by the SA's self-reported ROPS 13-14A prior period adjustment. HSC Section 34186 (a) also specifies that the prior period adjustments self-reported by SAs are subject to audit by the controller (CAC) and the State Controller.																ROPS 13-14A CAC PPA: To be completed by the CAC upon submittal of the ROPS 14-15A by the SA to Finance and the CAC. Note that CACs will need to enter their own formulas at the line item level pursuant to the manner in which they calculate the PPA. Also note that the admin amounts do not need to be listed at the line item level and may be entered as a lump sum.									
		Non-RPTTF Expenditures						RPTTF Expenditures										RPTTF Expenditures									
		Bond Proceeds		Reserve Balance		Other Funds		Non-Admin					Admin					Net SA Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)		Non-Admin CAC			Admin CAC			Net CAC Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	
		Authorized	Actual	Authorized	Actual	Authorized	Actual	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If K is less than L, the difference is zero)	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If total actual exceeds total authorized, the total difference is zero)	Net Difference (M+R)	SA Comments	Net Lesser of Authorized / Available	Actual	Difference	Net Lesser of Authorized / Available	Actual	Difference	Net Difference	CAC Comments
		\$ -	\$ -	\$ -	\$ -	\$ 1,246,742	\$ 1,246,742	\$ 2,348,307	\$ 2,348,307	\$ 2,292,216	\$ 2,324,267	\$ 24,040	\$ 181,500	\$ 181,500	\$ 181,500	\$ 181,500	\$ -	\$ 24,040			\$ -			\$ -			
37	Day Street/Alessandro Blvd to Cottonwood CIP 79724																										
38	Auto Mall Street Upgrades CIP 79725																										
39	Auto Mall Street Upgrades CIP 79725																										
40	Auto Mall Street Upgrades CIP 79725																										
41	Auto Mall Street Upgrades CIP 79725																										
42	Auto Mall Street Upgrades CIP 79725																										
43	Indian Basin, Appurtenant CIP 79726																										
44	Indian Basin, Appurtenant P 79726																										
-218-	Ironwood Ave-Day Barclay Dr P 79727																										
	Ironwood Ave-Day Barclay Dr P 79727																										
	Ironwood Ave-Day St/Barclay Dr CIP 79727																										
48	Ironwood Ave-Day St/Barclay Dr CIP 79727																										
49	Ironwood Ave-Day St/Barclay Dr CIP 79727																										
50	Ironwood Ave-Day St/Barclay Dr CIP 79727																										
51	Nason/SR-60 Bridge CIP 79718																										
52	Nason/SR-60 Bridge CIP 79718																										
53	Nason/SR-60 Bridge CIP 79718																										
54	Nason/SR-60 Bridge CIP 79718																										
55	Nason/SR-60 Bridge CIP 79718																										
56	Nason/SR-60 Bridge CIP 79718																										
57	Nason/SR-60 Bridge CIP 79718																										
58	Nason/SR-60 Bridge CIP 79718																										
59	Nason/SR-60 Bridge CIP 79718																										
60	Nason/SR-60 Bridge CIP 79718																										
61	Nason/SR-60 Bridge CIP 79718																										
62	Nason/SR-60 Bridge CIP 79718																										
63	Nason/SR-60 Bridge CIP 79718																										
64	Nason/SR-60 Bridge CIP 79718																										
65	Nason/SR-60 Bridge CIP 79718																										
66	Moreno Beach Ramps - Phase 1 CIP 79731																										
67	Moreno Beach Ramps - Phase 1 CIP 79731																										

Recognized Obligation Payment Schedule (ROPS) 14-15A - Report of Prior Period Adjustments
 Reported for the ROPS 13-14A (July 1, 2013 through December 31, 2013) Period Pursuant to Health and Safety Code (HSC) section 34186 (a)
 (Report Amounts in Whole Dollars)

ROPS 13-14A Successor Agency (SA) Self-reported Prior Period Adjustments (PPA): Pursuant to HSC Section 34186 (a), SAs are required to report the differences between their actual available funding and their actual expenditures for the ROPS 13-14A (July through December 2013) period. The amount of Redevelopment Property Tax Trust Fund (RPTTF) approved for the ROPS 14-15A (July through December 2014) period will be offset by the SA's self-reported ROPS 13-14A prior period adjustment. HSC Section 34186 (a) also specifies that the prior period adjustments self-reported by SAs are subject to audit by the county auditor-controller (CAC) and the State Controller.																				ROPS 13-14A CAC PPA: To be completed by the CAC upon submittal of the ROPS 14-15A by the SA to Finance and the CAC. Note that CACs will need to enter their own formulas at the line item level pursuant to the manner in which they calculate the PPA. Also note that the admin amounts do not need to be listed at the line item level and may be entered as a lump sum.							
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
Item #	Project Name / Debt Obligation	Non-RPTTF Expenditures						RPTTF Expenditures										Net SA Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	RPTTF Expenditures						Net CAC Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	CAC Comments	
		Bond Proceeds		Reserve Balance		Other Funds		Non-Admin					Admin						Non-Admin CAC			Admin CAC					
		Authorized	Actual	Authorized	Actual	Authorized	Actual	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If K is less than L, the difference is zero)	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If total actual exceeds total authorized, the total difference is zero)		Net Difference (M+R)	SA Comments	Net Lesser of Authorized / Available	Actual	Difference	Net Lesser of Authorized / Available			Actual
		\$ -	\$ -	\$ -	\$ -	\$ 1,246,742	\$ 1,246,742	\$ 2,348,307	\$ 2,348,307	\$ 2,292,216	\$ 2,324,267	\$ 24,040	\$ 181,500	\$ 181,500	\$ 181,500	\$ 181,500	\$ -	\$ 24,040				\$ -			\$ -		
68	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
69	Oversight Board Legal Counsel	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
70	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
71	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
72	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
73	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
74	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
75	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
	oreno Beach rmps - Phase 1 P 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
	oreno Beach rmps - Phase 1 P 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
	oreno Beach rmps - Phase 1 P 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
79	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
80	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									
81	Moreno Beach Ramps - Phase 1 CIP 79731	-	-	-	-	-	-	-	-	\$ -	-	\$ -	-	-	-	-	-	\$ -									

-219-

Item No. A.8

Recognized Obligation Payment Schedule 14-15A - Notes	
July 1, 2014 through December 31, 2014	
Item #	Notes/Comments
83	Public Works Agreement Obligation - Funds to be provided by the Residual Amounts calculated pursuant to HSC section 34191.4 (b) (2) (A) - \$600,000
84	Agency Loan - Funds to be provided by the Residual Amounts calculated pursuant to HSC section 34191.4 (b) (2) (A) - \$674,369

**THE CITY OF MORENO VALLEY SERVING AS THE SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY**

Budget Worksheet Report

For the period
July 1, 2014 -
December 31, 2014

<u>Account Number</u>		
Fund	4800 SUCCESSOR AGENCY ADMINISTRATION	
Department	20 Community & Economic Development	
Division	31 CEDD - Business Support & Neighborhood Programs	
Section	20801 Successor Agency Administration	
<u>Personnel Services</u>		
<u>Regular</u>		
611110	Salaries, Regular	\$ 69,747.00
<u>Total: Regular</u>		\$ 69,747.00
<u>Additional</u>		
611699	Salaries, Addl - Other	\$ 1,400.00
<u>Total: Additional</u>		\$ 1,400.00
<u>Benefits</u>		
612110	Benefits - PERS & ERPD Def Comp	\$ 18,750.00
612120	Benefits - Bank	\$ 9,648.00
612130	Benefits - Medicare	\$ 1,005.00
612140	Benefits - Group Life Insurance	\$ 485.50
612145	Benefits - ST/LT Disability	\$ 121.50
612150	Benefits - Addl % Mgmt Pkg	\$ 241.00
612160	Benefits - Annuity	\$ 228.50
<u>Total: Benefits</u>		\$ 30,479.50
<u>Total: Personnel Services</u>		\$ 101,626.50
<u>Contractual Services</u>		
<u>Professional</u>		
620230	Professional Svcs - Legal Svcs	\$ 12,500.00
620299	Professional Svcs - Other	\$ 5,473.50
<u>Total: Professional</u>		\$ 17,973.50
<u>Communications</u>		
620410	Communications	\$ 250.00
<u>Total: Communications</u>		\$ 250.00
<u>Training & Travel</u>		
620510	Training & Travel	\$ 250.00
<u>Total: Training & Travel</u>		\$ 250.00
<u>Total: Contractual Services</u>		\$ 18,473.50
<u>Materials & Supplies</u>		
<u>Materials & Supplies-Postage & Mail</u>		
630120	Postage - Overnight	\$ 50.00
<u>Total: Materials & Supplies-Postage & Mail</u>		\$ 50.00
<u>Materials & Supplies-Operating Supplies</u>		
630210	Oper Suppl - Office	\$ 1,250.00
630214	Oper Suppl - Printing & Binding	\$ 100.00
<u>Total: Materials & Supplies-Operating</u>		\$ 1,350.00
<u>Total: Materials & Supplies</u>		\$ 1,400.00
<u>Fixed Charges</u>		
<u>ISF Charges</u>		
690220	ISF - Risk - Workers Comp	\$ 1,500.00
<u>Total: ISF Charges</u>		\$ 1,500.00
<u>Administrative Charges</u>		
692012	Admin Chrg - OPEB	\$ 2,000.00
<u>Total: Administrative Charges</u>		\$ 2,000.00
<u>Total: Fixed Charges</u>		\$ 3,500.00
Total: Successor Agency Administration		\$ 125,000.00

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: APPROVE THE FIRST AMENDMENT TO THE AGREEMENT FOR PROFESSIONAL CONSULTANT SERVICES WITH PARSONS FOR THE SR-60/NASON STREET OVERCROSSING IMPROVEMENTS – PROJECT NO. 802 0003 70 77

RECOMMENDED ACTION

Recommendations:

1. Approve the “First Amendment to Agreement for Professional Consultant Services” with Parsons to provide additional construction support services during construction of the SR-60/Nason Street Overcrossing Improvements for \$50,000.
2. Authorize the City Manager to execute the First Amendment to Agreement for Professional Consultant Services with Parsons.
3. Authorize a Change Order to increase the Purchase Order with Parsons for the amount of \$50,000 when the First Amendment has been signed by all parties.

SUMMARY

This report recommends approval of the First Amendment to Agreement for Professional Consultant Services with Parsons for additional design support services during construction for the SR-60/Nason Street Overcrossing Improvements project. The project is funded with SLPP Funds, Capital Projects Reimbursements, DIF Interchange Improvements Capital Projects Fund, and 2007 Tax Allocation Bonds (TABS) and has been approved in the 2013/2014 Capital Improvement Plan (CIP).

DISCUSSION

The SR-60/Nason Overcrossing Bridge project is designed to replace the existing bridge with a wider structure, as well complete related improvements. Parsons was selected as a result of a competitive selection process. They were identified as the most qualified consultant to complete the planning, engineering, and construction-support tasks, to be approved in phases upon successful completion of the prior phase.

The consultant's scope of work was divided into three phases: Phase I - planning, Phase II - design and right-of-way, and Phase III - construction support. Phases I and II were successfully completed. In accordance with their successful performance, on November 13, 2012, the City Council approved a new Agreement for Phase III services, consisting of support services during construction of the SR-60/Nason Overcrossing Bridge project. These services included addressing Requests for Information, reviewing proposed changes during construction, attending progress meetings to quickly resolve any issues, preparing as-built plans, and related tasks. A new Agreement for Professional Consultant Services, instead of an amendment to the prior agreement, was approved due to updates to the City's standard agreement. The Agreement total was for \$169,000 for the anticipated construction support services.

Additional anticipated tasks identified late in the construction process relate to changes in four primary areas. Changes occurred in Caltrans policies on ADA compliance, for which the designer of record must prepare updated final plans and documentation in order to obtain Caltrans acceptance. Those changes included use of audible pedestrian crossings at crosswalks in the Caltrans right-of-way, and changes to curb ramp designs. In addition, updates to Caltrans safety criteria took place, requiring updates to the design and construction elements at curbed areas that have metal beam guard railing. Design and construction updates to this project's median in Nason Street, from Fir Avenue to the Target driveway, were implemented as a result of the coordination and completion of design of the next project to the south (Nason Street widening from Cactus Avenue to Fir Avenue). As a great benefit to the public, this project is now constructing the ultimate median instead of an interim median, thereby reducing traffic interruption and re-work costs. Lastly, it became apparent in early 2013 that to expend the target percentage of TABS funds by the June 30, 2013 deadline, the project had to be accelerated, and the acceleration of the work and its resulting evaluation of scenarios caused some additional design analyses, which utilized a portion of the Parsons original budget. Parsons has submitted a proposal for \$50,000 for the additional work.

The contract total is \$219,000 (\$169,000 for the original Agreement plus \$50,000 for the First Amendment). Staff recommends that the City Council approve the First Amendment with Parsons and increase the Purchase Order by \$50,000.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will facilitate the timely completion and acceptance of the project.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay completion and acceptance of the project.*

FISCAL IMPACT

The project is included in the Fiscal Year 2013/2014 Capital Improvement Plan and is currently funded using State-Local Partnership Program (SLPP) grant funds (Fund 2001), Capital Projects Reimbursements (Fund 3008), 2007 Tax Allocation Bonds (TABs) (Fund 3412), and Developer Impact Fee (DIF) Interchange Improvements funds (Fund 3311). These funds have been allocated for the SR-60/Nason Overcrossing Improvements project and can only be used for interchange-related improvement efforts. There is no impact to the General Fund.

AVAILABLE FUNDS – FISCAL YEAR 2013/2014**SLPP Funds**

(Account No. 2001-70-77-80002) (Project No. 802 0003 70 77) \$ 1,000,000

Capital Projects Reimbursements

(Account No. 3008-70-77-80002) (Project No. 802 0003 70 77) \$ 6,100,000

2007 Tax Allocation Bonds

(Account No. 3412-70-77-80002) (Project No. 802 0003 70 77) \$ 4,469,000

DIF Interchange Improvements Funds

(Account No. 3311-70-77-80002) (Project No. 802 0003 70 77) \$ 974,000

Total Project Budget..... \$12,543,000

ESTIMATED CONSTRUCTION COSTS – FISCAL YEAR 2013/2014

Construction (includes contingency)..... \$10,695,000

Construction Support Services (Design Support Services for Construction). \$ 52,000

Additional Construction Support Design Services \$ **50,000**

Construction Management & Inspection Services \$ 1,280,000

Construction Support Services (Survey & Geotechnical) \$ 201,000

Project Management and Administrative Costs* \$ 150,000

Utility and Agency Inspection and Materials Costs** \$ 115,000

Total Estimated Cost \$12,543,000

*Includes City project administration, printing and other miscellaneous costs.

**Includes EMWD, SCE, Caltrans, RCFC&WCD and CHP.

ANTICIPATED PROJECT SCHEDULE

Complete Hardscape/Landscaping May 2014

Plant Establishment Period June 2014 - May 2017

CITY COUNCIL GOALS

REVENUE DIVERSIFICATION AND PRESERVATION:

Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

POSITIVE ENVIRONMENT:

Create a positive environment for the development of Moreno Valley's future.

ATTACHMENTS

Attachment 1: First Amendment to Agreement for Professional Consultant Services with Parsons - Project No. 802 0003 70 77

Prepared By:
Margery Lazarus, P.E.
Senior Engineer

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer

**FIRST AMENDMENT TO AGREEMENT
FOR PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

This First Amendment to Agreement is by and between the CITY of MORENO VALLEY, a municipal corporation, hereinafter referred to as "City," and **Parsons**, an Illinois corporation, hereinafter referred to as "Consultant." This First Amendment to Agreement is made and entered into effective on the date the City signs this Amendment.

RECITALS:

Whereas, the City and Consultant entered into an Agreement entitled "AGREEMENT for PROFESSIONAL CONSULTANT SERVICES," hereinafter referred to as "Agreement," dated December 5, 2012.

Whereas, the Consultant is providing consultant design support during construction for the **SR-60/Nason Street Overcrossing Improvements** project.

Whereas, it is desirable to amend the Agreement to expand the scope of the work to be performed by the Consultant as is more particularly described in Section 1 of this First Amendment.

Whereas, the Consultant has submitted a Proposal dated January 20, 2014, for expansion of the scope of work to be performed. A copy of said Proposal is attached as "Exhibit A – First Amendment" and is incorporated herein by this reference.

SECTION 1 AMENDMENT TO ORIGINAL AGREEMENT:

1.1 The Agreement termination date is extended from December 31, 2015 to **December 31, 2017**, unless the termination date is further extended by an Amendment to the

**AMENDMENT TO AGREEMENT FOR
PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

Agreement.

1.2 Exhibit "A" to the Agreement is hereby amended by adding to the scope of work section described in "Exhibit A – First Amendment," entitled "Additional Construction Support Services – SR-60/Nason Bridge Construction Project."

1.3 Exhibit "C" to the Agreement is hereby further amended by adding to the cost proposal section thereof described in "Exhibit A -- First Amendment," entitled "Additional Construction Support Services – SR-60/Nason Bridge Construction Project."

1.4 The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of **\$50,000.00**, as set forth in the above-referenced Cost Summary, in consideration of the Consultant's performance of the work set forth in "Exhibit A -- First Amendment."

1.5 The total "Not to Exceed" fee for this contract is \$219,000.00 (\$169,000.00 for the original Agreement plus \$50,000.00 for the First Amendment to Agreement).

SECTION 2

2.1 Except as otherwise specifically provided in this Amendment, all other terms and conditions of the Agreement shall remain in full force and effect.

SIGNATURE PAGE TO FOLLOW

**AMENDMENT TO AGREEMENT FOR
PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Parsons

BY: _____
City Manager

BY: _____

TITLE: _____
(President or Vice President)

Date

Date

<u>INTERNAL USE ONLY</u>
APPROVED AS TO LEGAL FORM:
_____ City Attorney
_____ Date
RECOMMENDED FOR APPROVAL:
_____ Department Head
_____ Date

BY: _____

TITLE: _____
(Corporate Secretary)

Date

Attachments: "Exhibit A – First Amendment"

W:\CapProj\CapProj\PROJECTS\Marge - 07-41570024 Rte 60 Nason-Moreno Beach Bridge Intrchn\Design Phase\Consultant - Parsons\Agreement\Construction Phase - Nason Bridge\First Amendment\Parsons A#1.doc

PARSONS

2201 Dupont Drive, Suite 200, Irvine Ca. 92612 • Telephone: (949)-333-4474 • Fax: 949-263-1225 • www.parsons.com

1-20-2014

Margery Lazarus, P.E.
Senior Engineer
City of Moreno Valley
Public Works Department
14177 Frederick Street
Moreno Valley, Ca 92552-0805

Subject: AMENDMENT #1 Additional Construction Support Services - SR-60/Nason Bridge Construction Project.

Dear Marge:

Transmitted herewith is the cost proposal and scope of services by Parsons to address additional Construction Phase Design Support for the SR-60/Nason Bridge Construction Project. The original task list in the contract scope of work was based upon the current Caltrans design standards at the time the design was approved – June 2012. Since that time, Americans with Disabilities (ADA) standards for curb ramps have changed significantly and extensive design changes were required in order to address the new standards at (10) curb ramp locations for this project. In addition, other changes listed below are required to address construction phase changes that were not previously identified.

1.1	ADA Curb Ramp re-design (Per updated ADA Standards).
1.2	Traffic Signal - Audible push buttons (new requirement by Caltrans – 2013)
1.3	Redesign Nason Median Alignment at Fir to avoid reconstruction by Nason Street Project South of Fir.
1.4	Redesign MBGR at Nason Bridge - per CT Safety Review

- 1.1 Caltrans adopted new ADA requirements during 2013 that affect all curb ramps on roadway facilities across the entire state. Parsons is working closely with City and Caltrans staff to develop new curb ramp designs such that the Nason Bridge project will be fully compliant with the new requirements.
- 1.2 During 2013, Caltrans adopted new requirements for Audible Pedestrian Push buttons at all signal controlled cross walk locations. Parsons is updating the Traffic Signal plans for the Nason project to comply with the new design requirements.
- 1.3 During 2013 construction of the Nason/SR60 Bridge Replacement project, The City was also developing the street improvement plans along Nason Street south of Fir Avenue as a separate project which will be bid and constructed after completion of the bridge project. The Nason bridge project was design was finalized in 2012 prior to the completion of the separate City street project – and hence the bridge project was designed such that the width of the improvements would transition to join the existing width at Nason/Fir intersection. During 2013 it was confirmed that the street improvement project would proceed to construction following the completion of the bridge project – and it was confirmed that cost savings to the City could be achieved if changes were made to the Nason Bridge project Plans - to modify striping and eliminate construction of an “interim”

median curb location. This change has been implemented and will result in construction cost savings and reduced traffic impacts for the upcoming city street project.

- 1.4 Pursuant to a safety review by Caltrans staff in December of 2013, Parsons has redesigned the Metal Beam Guard Railing type and transitions for the exposed end of the concrete bridge barriers on the northbound and southbound sides of the bridge. Pursuant to the required changes to curbs and curb ramps to address the new ADA curb ramp guidelines, the MBGR installations had to be redesigned.

In order to address the changes described above, Parsons is requesting this contract amendment. Additional details are provided on the attached spreadsheet.

Amendment Total: \$50,000

If you have any questions, do not hesitate to contact me at 949-333-4535.

Respectfully,
PARSONS



David Speirs, PE
Project Manager

Attachments:

CC: file

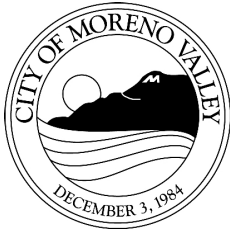
**NASON/SR60
CONSTRUCTION SUPPORT - BRIDGE PROJECT**


DATE: 1-20-2014

PARSONS STAFF - LABOR HOURS AND COSTS										
STAFF & PROJECT TITLE		SPEIRS	Kraman	Serafica	SANDIRA	PEARMAN	Todaro	STRASSNER	TOTAL	DIRECT
TASK NO. - Description		Project Manager	senior Engineer	SR Engineer	Structures Lead	CADD Sr.	Environmental Planner	ADMIN	LABOR	LABOR
NASON Construct Support										
									0	\$0
1.1	ADA Curb Ramp re-design (Per updated ADA Standards)	16	190			12			218	\$12,401
1.2	Traffic Signal - Audible push buttons (new requirement)	4	4	20		6			34	\$1,902
1.3	Redesign Nason Median Alignment at Fir to avoid reconstruction by Nason Street Project South of Fir	8	32			2			42	\$2,563
1.4	Redesign MBGR at Nason Bridge - per CT Safety Review	6	24			2			32	\$1,944
									0	\$0
	Totals	34	250	20	0	22	0	0	326	\$18,810
PARSONS TOTAL FOR DESIGN PHASE		34	250	20	0	22	0	0	326	
TOTAL DIRECT LABOR COSTS		\$3,043	\$13,750	\$1,064	\$0	\$952	\$0	\$0		\$18,810

Overhead	141.03%	\$26,527
Profit	10%	\$4,534
Escalation	0%	\$0
TOTAL LABOR COSTS		\$49,870

SUBCONSULTANTS AND DIRECT COSTS		NASON
PARSONS DIRECT COSTS		\$129.65
subtotal		\$129.65
GRAND TOTAL		\$50,000.00



APPROVALS	
BUDGET OFFICER	<BudgetOfficer>
CITY ATTORNEY	<CityAttorney>
CITY MANAGER	

Report to City Council

TO: Mayor and City Council

FROM: Richard Teichert, Chief Financial Officer

AGENDA DATE: February 25, 2014

TITLE: RECEIPT OF QUARTERLY INVESTMENT REPORT – QUARTER ENDED DECEMBER 31, 2013

RECOMMENDED ACTION

Recommendation:

1. Receive and file the Quarterly Investment Report, in compliance with the City's Investment Policy.

SUMMARY

The attached Quarterly Investment Report presents the City's cash and investments for the quarter that ended December 31, 2013. This report is in compliance with California Government Code Section 53646 regarding the reporting of detailed information on all securities, investments, and monies of the City, as well as the reporting of the market value of the investments held. All of the investments contained within the portfolio are in full compliance with the City's Investment Policy and Government Code Section 53601 as to the types of investments allowed. It is recommended that the City Council receive and file the attached Quarterly Investment Report.

DISCUSSION

California Government Code Sections 53601 and 53646 establish the types of investments allowed, the governing restrictions on these investments, the third-party custodian arrangement for certain investments, and the reporting practices related to the portfolio for local agencies. The City's Investment Policy, adopted on July 9, 2013 is in full compliance with the requirements of both of the above-mentioned Code Sections.

The attached Quarterly Investment Report presents the City's cash and investments for the quarter that ended December 31, 2013. This is the second quarterly report submitted for the 2013-14 fiscal year and is in compliance with California Government Code Section 53646 regarding the reporting of detailed information on all securities, investments, and monies of the City, as well as the reporting of the market value of the investments held. All of the investments contained within the portfolio are in full compliance with the City's Investment Policy and Government Code Section 53601 as to the types of investments allowed. As stated in the attached report, there is more than adequate liquidity within the portfolio for the City to meet its budgeted expenditures over the next six months.

The City has used Chandler Asset Management as its professional portfolio manager since 2010. Chandler uses an active investment management approach. Utilizing an active approach, securities purchased by Chandler on the City's behalf are not necessarily held to maturity but may be actively traded based on market conditions and the City's investment goals. The City's cash flow requirements are evaluated on an ongoing basis, with short-term needs accommodated through the City's pooled investment funds with the State Local Agency Investment Fund (LAIF). LAIF is a pool of public funds managed by the State Treasurer of California, providing 24-hour liquidity while yielding a rate of return approximately equivalent to a one-year treasury bill. With the combined use of a conservative approach to evaluating cash flow needs and LAIF liquidity, the City will not have to liquidate securities at current market rates that are intended to be held for longer-term investment. This is especially important considering that the average maturity of the general portfolio is 2.47 years.

The investments managed by Chandler Asset Management totaled \$137,209,798 at par and achieved a Yield to Maturity (YTM) for December 2013 of 1.31%. This compares to a YTM in September 2013 of 1.25% and a YTM in December 2012 of 1.31%. In addition, the City maintained \$5,860,903 in the State Local Agency Investment Fund Pool (LAIF) with a YTM of .26%.

In accordance with California Government Code Section 53646, the City is properly reporting investments of all bond proceeds and Deferred Compensation Plan funds. These funds are not managed by the City Treasurer as part of the pooled investment program and were not included in the City's investment reports prior to the current legislation. Bond proceeds are held and invested by a Trustee; Deferred Compensation Plan funds are held and invested by the respective plan administrators with the funds also placed in a trust separate from City funds.

FISCAL IMPACT

Current market rates continue to hover at or near all-time lows and based on comments by the Federal Reserve Board we do not expect this to change in the near future. This interest rate environment directly impacts the ability of the portfolio to generate income. The budget for fiscal year 2013-14 projected General Fund investment earnings totaling \$2.1 million. Year to date through December 2013 these revenues have totaled

\$880,000 which is slightly behind the projections which were included in the FY 2013-14 budget.

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

NOTIFICATION

Publication of the agenda

ATTACHMENTS

Attachment 1 - Treasurer's Cash and Investments Report – December 2013

Attachment 2 - Chandler Asset Management Bond Market Review – January 2014

Prepared By:
Brooke McKinney
Treasury Operations Division Manager

Department Head Approval:
Richard Teichert
Chief Financial Officer

This page intentionally left blank.

CITY OF MORENO VALLEY
Treasurer's Cash and Investments Report
December 2013

General Portfolio	Cost Value	Market Value	Par Value	Average Maturity	Average Yield to Maturity	Average Duration
Bank Accounts	2,396,013	2,396,013	2,396,013			
State of California LAIF Pool	5,860,903	5,862,504	5,860,903	0.66	0.26%	
Investments	138,832,933	138,064,256	137,209,798	2.47	1.31%	2.31
Total General Portfolio	147,089,849	146,322,773	145,466,714	Years		Years

Bond Proceeds with Fiscal Agents	Market Value
Construction Funds	1,104,342
Principal & Interest Accounts	536,166
Debt Service Reserve Funds	23,286,447
Custody Accounts	0
Arbitrage Rebate Accounts	0
Other Accounts	6,958
Total Bond Proceeds	24,933,913

Deferred Compensation Funds	Market Value as of Dec 31, 2013
Nationwide	11,811,065
ICMA	4,878,757
Total Deferred Compensation Funds	16,689,822

Total Investment Portfolio 187,946,508

1. I hereby certify that the investments are in compliance with the investment policy adopted by the City Council. There are no items of non-compliance for this period.
2. The market values for the specific investments in the General Portfolio are provided by the City's investment advisor, Chandler Asset Management.
3. The market value for LAIF is provided by the State Treasurer.
4. The market values for investments held by fiscal agents and the deferred compensation plans are provided by each respective trustee or fiscal agent.
5. The City has the ability to meet its budgeted expenditures for the next six months pending any future action by City Council or any unforeseen catastrophic event.


 Richard Teichert
 City Treasurer

-237-

Item No. A.10



PORTFOLIO CHARACTERISTICS

Average Duration	2.31
Average Coupon	1.60 %
Average Purchase YTM	1.31 %
Average Market YTM	0.82 %
Average S&P/Moody Rating	AA/Aa1
Average Final Maturity	2.47 yrs
Average Life	2.34 yrs

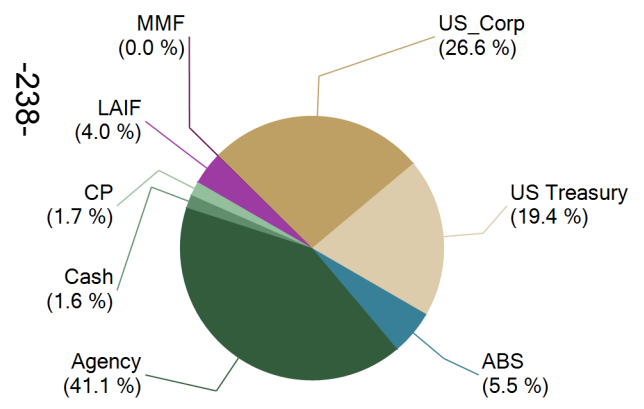
ACCOUNT SUMMARY

	Beg. Values as of 11/30/13	End Values as of 12/31/13
Market Value	149,594,094	146,322,773
Accrued Interest	557,161	559,005
Total Market Value	150,151,255	146,881,778
Income Earned	157,695	158,095
Cont/WD		
Par	147,673,632	145,466,714
Book Value	148,161,810	145,704,940
Cost Value	149,662,007	147,089,849

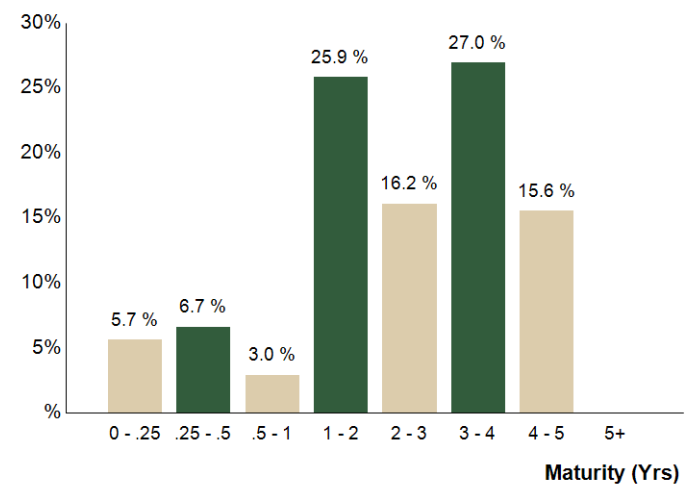
TOP ISSUERS

Issuer	% Portfolio
Government of United States	19.4 %
Federal National Mortgage Assoc	11.4 %
Federal Home Loan Mortgage Corp	11.4 %
Federal Home Loan Bank	9.4 %
Federal Farm Credit Bank	8.9 %
Local Agency Investment Fund	4.0 %
JP Morgan Chase & Co	3.0 %
General Electric Co	2.2 %
Total	69.6 %

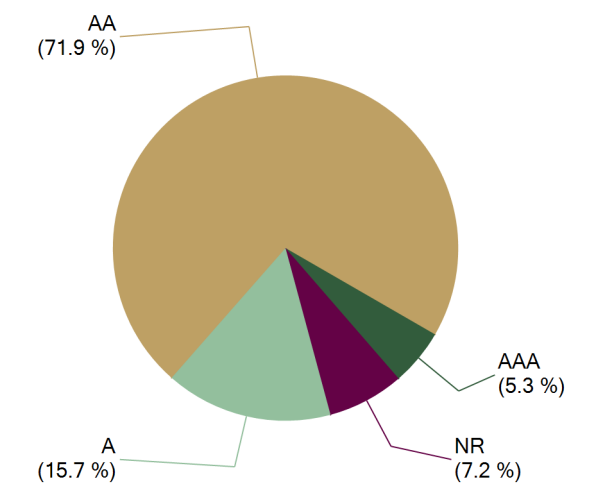
SECTOR ALLOCATION



MATURITY DISTRIBUTION



CREDIT QUALITY (S&P)





CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody S&P	Maturity Duration
ABS									
47787RAC4	John Deere Owner Trust 2012-B A3 0.53% Due 7/15/2016	1,625,000.00	08/28/2012 0.53 %	1,624,949.79 1,624,967.00	100.02 0.51 %	1,625,341.25 382.78	1.11 % 374.25	Aaa NR	2.54 0.84
89231NAC7	Toyota Auto Receivable 2012-B A3 0.46% Due 7/15/2016	1,620,000.00	09/18/2012 0.46 %	1,619,845.94 1,619,911.60	100.02 0.44 %	1,620,307.80 331.20	1.10 % 396.20	Aaa AAA	2.54 0.87
43814CAC3	Honda Auto Receivables 2013-1 A3 0.48% Due 11/21/2016	2,525,000.00	01/16/2013 0.48 %	2,524,867.44 2,524,910.50	100.03 0.46 %	2,525,707.00 336.67	1.72 % 796.50	NR AAA	2.89 1.22
161571FL3	Chase CHAIT Pool #2012-A5 0.59% Due 8/15/2017	1,680,000.00	03/19/2013 0.59 %	1,680,000.00 1,680,000.00	100.01 0.58 %	1,680,184.80 440.53	1.14 % 184.80	NR AAA	3.62 1.59
477879AC4	John Deere Owner Trust 2013-B A3 0.87% Due 8/15/2017	640,000.00	08/27/2013 0.91 %	639,912.77 639,919.97	100.31 0.70 %	641,964.80 247.47	0.44 % 2,044.83	Aaa NR	3.62 1.81
Total ABS		8,090,000.00	0.55 %	8,089,575.94 8,089,709.07	0.51 %	8,093,505.65 1,738.65	5.51 % 3,796.58	Aaa AAA	2.96 1.20
AGENCY									
31331JQA4	FFCB Note 1.9% Due 6/2/2014	2,850,000.00	06/08/2010 1.96 %	2,843,074.50 2,849,273.52	100.74 0.14 %	2,870,998.80 4,362.08	1.96 % 21,725.28	Aaa AA+	0.42 0.42
230-239-3EADW5	FNMA Callable Note 1X 3/24/2011 1.57% Due 9/24/2014	2,025,000.00	09/26/2011 0.65 %	2,080,181.25 2,038,441.59	101.02 0.17 %	2,045,642.85 8,566.31	1.40 % 7,201.26	Aaa AA+	0.73 0.73
313370JB5	FFCB Note 0.55% Due 8/17/2015	3,450,000.00	04/27/2012 0.60 %	3,444,862.95 3,447,469.87	100.12 0.48 %	3,454,174.50 7,062.92	2.36 % 6,704.63	Aaa AA+	1.63 1.62
313370JB5	FHLB Note 1.75% Due 9/11/2015	1,200,000.00	08/04/2011 1.15 %	1,228,608.00 1,211,802.23	102.30 0.39 %	1,227,555.60 6,416.67	0.84 % 15,753.37	Aaa AA+	1.70 1.67
3133ECBJ2	FFCB Note 0.43% Due 11/16/2015	3,100,000.00	12/24/2012 0.45 %	3,098,233.00 3,098,853.29	100.05 0.41 %	3,101,438.40 1,666.25	2.11 % 2,585.11	Aaa AA+	1.88 1.86
31331J6C2	FFCB Note 2.35% Due 12/22/2015	2,000,000.00	03/28/2011 2.27 %	2,007,240.00 2,003,014.92	103.81 0.41 %	2,076,260.00 1,175.00	1.41 % 73,245.08	Aaa AA+	1.98 1.94
3136FPDC8	FNMA Callable Note 1X 3/8/2011 2% Due 3/8/2016	1,765,000.00	08/24/2011 1.22 %	1,825,645.40 1,794,169.82	103.19 0.53 %	1,821,377.63 11,080.28	1.25 % 27,207.81	Aaa AA+	2.19 2.13
313372YS7	FHLB Note 2.45% Due 3/30/2016	2,150,000.00	07/07/2011 1.87 %	2,206,631.00 2,176,856.28	104.14 0.59 %	2,239,111.05 13,315.07	1.53 % 62,254.77	Aaa AA+	2.25 2.19
3137EACT4	FHLMC Note 2.5% Due 5/27/2016	925,000.00	06/14/2011 1.86 %	952,744.45 938,472.80	104.66 0.55 %	968,098.53 2,184.03	0.66 % 29,625.73	Aaa AA+	2.41 2.34
73SZ6	FHLB Note 2.125% Due 6/10/2016	2,775,000.00	Various 1.36 %	2,871,705.50 2,825,166.64	103.64 0.62 %	2,875,987.80 3,439.85	1.96 % 50,821.16	Aaa AA+	2.44 2.38
EACW7	FHLMC Note 2% Due 8/25/2016	2,825,000.00	09/14/2011 1.19 %	2,935,005.50 2,883,901.06	103.41 0.70 %	2,921,366.40 19,775.00	2.00 % 37,465.34	Aaa AA+	2.65 2.57
787M7	FHLB Note 1.05% Due 2/27/2017	1,720,000.00	02/27/2012 1.03 %	1,721,582.40 1,720,999.18	99.90 1.08 %	1,718,290.32 6,220.67	1.17 % (2,708.86)	Aaa AA+	3.16 3.08
G0UY7	FNMA Callable Note 1X 2/27/15 1% Due 2/27/2017	1,500,000.00	04/23/2013 0.48 %	1,514,250.00 1,508,922.11	100.13 0.89 %	1,501,950.00 5,166.67	1.03 % (6,972.11)	Aaa AA+	3.16 2.86

Item No. A.10



Item No.	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody S&P	Maturity Duration
AGENCY									
EADC0	FHLMC Note 1% Due 3/8/2017	3,490,000.00	03/14/2012	3,441,314.50	100.16	3,495,685.21	2.39 %	Aaa	3.19
			1.29 %	3,458,899.09	0.95 %	10,954.72	36,786.12	AA+	3.12
78WF4	FHLB Note 1.125% Due 3/10/2017	3,435,000.00	04/24/2012	3,447,228.60	100.54	3,453,682.97	2.36 %	Aaa	3.19
			1.05 %	3,442,996.68	0.95 %	11,915.16	10,686.29	AA+	3.12
3133782N0	FHLB Note 0.875% Due 3/10/2017	1,310,000.00	03/13/2013 0.70 %	1,318,894.90 1,317,111.03	99.76 0.95 %	1,306,862.55 3,534.27	0.89 % (10,248.48)	Aaa AA+	3.19 3.13
3137EADF3	FHLMC Note 1.25% Due 5/12/2017	3,300,000.00	05/29/2012 1.06 %	3,330,600.90 3,320,767.31	100.69 1.04 %	3,322,631.40 5,614.58	2.27 % 1,864.09	Aaa AA+	3.36 3.28
313379VE6	FHLB Note 1.01% Due 6/19/2017	915,000.00	07/26/2012 0.82 %	923,363.10 920,916.85	99.60 1.13 %	911,331.77 308.05	0.62 % (9,585.08)	Aaa AA+	3.47 3.40
3137EADH9	FHLMC Note 1% Due 6/29/2017	3,150,000.00	Various 0.85 %	3,171,475.20 3,165,598.13	99.40 1.18 %	3,131,106.30 175.00	2.13 % (34,491.83)	Aaa AA+	3.50 3.42
3133EAY28	FFCB Note 0.83% Due 9/21/2017	1,645,000.00	09/18/2012 0.83 %	1,645,000.00 1,645,000.00	98.39 1.27 %	1,618,587.88 3,792.64	1.10 % (26,412.12)	Aaa AA+	3.73 3.64
3137EADL0	FHLMC Note 1% Due 9/29/2017	1,050,000.00	10/25/2012 0.92 %	1,053,983.70 1,053,033.83	98.83 1.32 %	1,037,701.35 2,683.33	0.71 % (15,332.48)	Aaa AA+	3.75 3.65
3135GORT2	FNMA Note 0.875% Due 12/20/2017	1,850,000.00	02/22/2013	1,845,264.00	97.91	1,811,320.20	1.23 %	Aaa	3.97
			0.93 %	1,846,098.66	1.42 %	494.62	(34,778.46)	AA+	3.88
7EADN6	FHLMC Note 0.75% Due 1/12/2018	1,850,000.00	Various	1,833,275.85	97.33	1,800,543.95	1.23 %	Aaa	4.04
			0.96 %	1,834,530.44	1.43 %	6,513.54	(33,986.49)	AA+	3.93
3135G0TG8	FNMA Note 0.875% Due 2/8/2018	2,950,000.00	Various 1.33 %	2,889,437.30 2,896,442.97	97.48 1.51 %	2,875,601.00 10,253.30	1.96 % (20,841.97)	Aaa AA+	4.11 3.99
3135G0WJ8	FNMA Note 0.875% Due 5/21/2018	3,050,000.00	07/29/2013 1.54 %	2,956,990.25 2,965,200.11	96.73 1.65 %	2,950,301.60 2,965.28	2.01 % (14,898.51)	Aaa AA+	4.39 4.27
3135G0YM9	FNMA Note 1.875% Due 9/18/2018	950,000.00	12/23/2013 1.71 %	956,915.05 956,895.02	100.66 1.73 %	956,253.85 5,096.35	0.65 % (641.17)	Aaa AA+	4.72 4.47
3135G0YT4	FNMA Note 1.625% Due 11/27/2018	2,750,000.00	12/13/2013 1.71 %	2,739,055.00 2,739,139.89	99.17 1.80 %	2,727,059.50 4,220.49	1.86 % (12,080.39)	Aaa AA+	4.91 4.68
Total Agency		59,980,000.00	1.18 %	60,282,562.30 60,059,973.32	0.92 %	60,220,921.41 158,952.13	41.11 % 160,948.09	Aaa AA+	2.91 2.83
CASH									
90CASH\$00	Cash Custodial Cash Account	2,396,012.50	Various 0.00 %	2,396,012.50 2,396,012.50	1.00 0.00 %	2,396,012.50 0.00	1.63 % 0.00	NR NR	0.00 0.00
Total Cash		2,396,012.50	N/A	2,396,012.50	0.00 %	2,396,012.50 0.00	1.63 % 0.00	NR NR	0.00 0.00
COMMERCIAL PAPER									
89233HEC4	Toyota Motor Credit Discount CP 0.25% Due 5/12/2014	1,900,000.00	08/28/2013 0.25 %	1,896,609.03 1,898,271.53	99.91 0.25 %	1,898,271.53 0.00	1.29 % 0.00	P-1 A-1+	0.36 0.36



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody S&P	Maturity Duration
COMMERCIAL PAPER									
06416KJ35	Bank of Nova Scotia Discount CP 0.25% Due 9/3/2014	665,000.00	12/17/2013 0.25 %	663,827.84 663,891.20	99.83 0.25 %	663,891.20 0.00	0.45 % 0.00	P-1 A-1	0.67 0.67
Total Commercial Paper		2,565,000.00	0.25 %	2,560,436.87 2,562,162.73	0.25 %	2,562,162.73 0.00	1.74 % 0.00	P-1 A-1	0.44 0.44
LAIF									
90LAIF\$00	Local Agency Investment Fund State Pool	5,860,903.21	Various 0.26 %	5,860,903.21 5,860,903.21	1.00 0.26 %	5,860,903.21 7,076.15	4.00 % 0.00	NR NR	0.00 0.00
Total LAIF		5,860,903.21	0.26 %	5,860,903.21 5,860,903.21	0.26 %	5,860,903.21 7,076.15	4.00 % 0.00	NR NR	0.00 0.00
MONEY MARKET FUND FI									
60934N104	Federated GOVT OBLIG MMF	59,198.03	Various 0.01 %	59,198.03 59,198.03	1.00 0.01 %	59,198.03 0.00	0.04 % 0.00	Aaa AAA	0.00 0.00
Total Money Market Fund FI		59,198.03	0.01 %	59,198.03 59,198.03	0.01 %	59,198.03 0.00	0.04 % 0.00	Aaa AAA	0.00 0.00
CORPORATE									
3859AK0	Northern Trust Company Note 4.625% Due 5/1/2014	1,850,000.00	10/20/2010 1.33 %	2,058,421.00 1,869,478.60	101.45 0.28 %	1,876,756.55 14,260.42	1.29 % 7,277.95	A2 A+	0.33 0.33
36962G4C5	General Electric Capital Corp Note 5.9% Due 5/13/2014	3,075,000.00	Various 2.88 %	3,411,681.00 3,106,532.74	102.02 0.37 %	3,137,201.10 24,190.00	2.15 % 30,668.36	A1 AA+	0.36 0.37
09247XAD3	Blackrock Inc Note 3.5% Due 12/10/2014	1,630,000.00	Various 2.84 %	1,674,920.75 1,639,377.83	102.92 0.39 %	1,677,633.50 3,327.92	1.14 % 38,255.67	A1 A+	0.94 0.93
713448BM9	Pepsico Inc. Note 3.1% Due 1/15/2015	2,530,000.00	Various 2.05 %	2,641,540.25 2,556,410.80	102.75 0.45 %	2,599,468.74 36,164.95	1.79 % 43,057.94	A1 A-	1.04 1.01
46625HHP8	JP Morgan Chase Note 3.7% Due 1/20/2015	2,550,000.00	Various 3.34 %	2,584,656.00 2,559,027.91	103.12 0.72 %	2,629,570.20 42,195.42	1.82 % 70,542.29	A3 A	1.05 1.02
459200HB0	IBM Corp Note 0.55% Due 2/6/2015	695,000.00	02/01/2012 0.72 %	691,601.45 693,756.55	100.15 0.41 %	696,029.30 1,539.62	0.47 % 2,272.75	Aa3 AA-	1.10 1.09
94980VAA6	Wells Fargo Bank Note 4.75% Due 2/9/2015	2,475,000.00	Various 3.65 %	2,584,316.50 2,502,539.92	104.49 0.66 %	2,586,201.75 46,371.87	1.79 % 83,661.83	A1 A+	1.11 1.07
70AV0	Berkshire Hathaway Note 3.2% Due 2/11/2015	2,485,000.00	06/09/2010 2.65 %	2,545,012.75 2,499,307.21	103.07 0.43 %	2,561,284.53 30,924.44	1.76 % 61,977.32	Aa2 AA	1.12 1.09
16AX8	Coca Cola Company Note 0.75% Due 3/13/2015	2,090,000.00	Various 0.80 %	2,086,645.55 2,088,661.53	100.32 0.49 %	2,096,614.86 4,702.50	1.43 % 7,953.33	Aa3 AA-	1.20 1.19
6JHB4	Bank of New York Mellon Note 4.95% Due 3/15/2015	2,360,000.00	Various 2.11 %	2,645,950.90 2,436,207.04	105.01 0.76 %	2,478,344.56 34,397.01	1.71 % 42,137.52	A2 A	1.20 1.17
81DA8	Pfizer Inc. Note 5.35% Due 3/15/2015	1,550,000.00	02/18/2011 2.33 %	1,730,497.50 1,603,417.50	105.67 0.62 %	1,637,812.15 24,416.81	1.13 % 34,394.65	A1 AA	1.20 1.16

-241

Item No. A.10



P	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody S&P	Maturity Duration
CORPORATE									
5PAR5	Praxair Note 4.625% Due 3/30/2015	740,000.00	Various 2.58 %	807,780.55 757,591.80	105.06 0.56 %	777,411.44 8,651.32	0.54 % 19,819.64	A2 A	1.24 1.21
42AB9	Ebay Inc Note 1.625% Due 10/15/2015	2,670,000.00	10/22/2010 1.66 %	2,665,327.50 2,668,319.65	101.95 0.53 %	2,722,113.06 9,159.58	1.86 % 53,793.41	A2 A	1.79 1.76
38259PAC6	Google Inc Note 2.125% Due 5/19/2016	1,315,000.00	11/15/2012 0.75 %	1,377,186.90 1,357,351.42	103.32 0.72 %	1,358,648.80 3,260.10	0.93 % 1,297.38	Aa2 AA	2.38 2.32
24422ERL5	John Deere Capital Corp Note 2% Due 1/13/2017	1,215,000.00	09/11/2012 1.05 %	1,263,733.65 1,249,132.04	101.69 1.43 %	1,235,588.18 11,340.00	0.85 % (13,543.86)	A2 A	3.04 2.91
674599CB9	Occidental Petroleum Note 1.75% Due 2/15/2017	1,575,000.00	03/08/2013 1.13 %	1,612,532.25 1,604,842.72	100.34 1.64 %	1,580,418.00 10,412.50	1.08 % (24,424.72)	A1 A	3.13 3.01
913017BU2	United Tech Corp Note 1.8% Due 6/1/2017	170,000.00	05/24/2012 1.82 %	169,853.80 169,900.16	101.54 1.34 %	172,620.38 255.00	0.12 % 2,720.22	A2 A	3.42 3.30
166764AA8	Chevron Corp. Callable Note Cont 11/5/17 1.104% Due 12/5/2017	1,500,000.00	Various 1.47 %	1,477,072.20 1,478,897.01	97.80 1.69 %	1,466,989.50 1,195.99	1.00 % (11,907.51)	Aa1 AA	3.93 3.82
458140AL4	Intel Corp Note 1.35% Due 12/15/2017	1,940,000.00	12/12/2012 1.29 %	1,945,790.55 1,944,584.18	98.83 1.66 %	1,917,377.67 1,164.00	1.31 % (27,206.51)	A1 A+	3.96 3.83
142DF7	Wal-Mart Stores Note 1.125% Due 4/11/2018	1,130,000.00	04/04/2013 1.14 %	1,128,960.40 1,129,111.27	97.05 1.85 %	1,096,665.00 2,825.00	0.75 % (32,446.27)	Aa2 AA	4.28 4.14
833AJ9	Apple Inc Note 1% Due 5/3/2018	1,900,000.00	05/22/2013 1.25 %	1,877,181.00 1,879,943.10	96.69 1.80 %	1,837,199.30 3,061.11	1.25 % (42,743.80)	Aa1 AA+	4.34 4.21
24422ESF7	John Deere Capital Corp Note 1.95% Due 12/13/2018	545,000.00	12/10/2013 1.99 %	543,839.15 543,851.23	99.36 2.09 %	541,529.44 531.38	0.37 % (2,321.79)	A2 A	4.95 4.69
Total US Corporate		37,990,000.00	2.01 %	39,524,501.60 38,338,242.21	0.82 %	38,683,478.01 314,346.94	26.55 % 345,235.80	A1 A+	1.80 1.75
US TREASURY									
912828NP1	US Treasury Note 1.75% Due 7/31/2015	1,350,000.00	04/06/2011 1.99 %	1,336,451.79 1,345,048.37	102.33 0.27 %	1,381,482.00 9,886.55	0.95 % 36,433.63	Aaa AA+	1.58 1.56
912828PE4	US Treasury Note 1.25% Due 10/31/2015	2,720,000.00	Various 1.35 %	2,708,845.06 2,715,366.42	101.66 0.34 %	2,765,048.64 5,823.21	1.89 % 49,682.22	Aaa AA+	1.83 1.81
912828PJ3	US Treasury Note 1.375% Due 11/30/2015	2,925,000.00	05/16/2011 1.63 %	2,892,332.07 2,911,230.55	101.93 0.36 %	2,981,557.80 3,535.71	2.03 % 70,327.25	Aaa AA+	1.92 1.89
912828PS3	US Treasury Note 2% Due 1/31/2016	2,855,000.00	05/16/2011 1.70 %	2,893,262.08 2,871,926.18	103.28 0.42 %	2,948,678.26 23,895.11	2.02 % 76,752.08	Aaa AA+	2.08 2.03
912828RU6	US Treasury Note 0.875% Due 11/30/2016	2,750,000.00	12/22/2011 0.89 %	2,748,397.88 2,749,052.97	100.32 0.76 %	2,758,808.25 2,115.38	1.88 % 9,755.28	Aaa AA+	2.92 2.87
912828SC5	US Treasury Note 0.875% Due 1/31/2017	1,710,000.00	06/20/2012 0.70 %	1,723,298.31 1,718,886.59	100.09 0.84 %	1,711,603.98 6,261.48	1.17 % (7,282.61)	Aaa AA+	3.09 3.03
912828TG5	US Treasury Note 0.5% Due 7/31/2017	3,100,000.00	02/25/2013 0.73 %	3,069,373.67 3,075,229.82	97.90 1.10 %	3,034,850.40 6,486.41	2.07 % (40,379.42)	Aaa AA+	3.58 3.53



Holdings Report

As of 12/31/13

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody S&P	Maturity Duration
US TREASURY									
912828TS9	US Treasury Note 0.625% Due 9/30/2017	2,875,000.00	Various 0.74 %	2,860,759.64 2,862,940.42	97.92 1.19 %	2,815,254.63 4,590.92	1.92 % (47,685.79)	Aaa AA+	3.75 3.68
912828UU2	US Treasury Note 0.75% Due 3/31/2018	2,835,000.00	Various 1.28 %	2,768,003.84 2,772,829.22	97.16 1.44 %	2,754,378.27 5,432.45	1.88 % (18,450.95)	Aaa AA+	4.25 4.15
912828WD8	US Treasury Note 1.25% Due 10/31/2018	2,805,600.00	12/13/2013 1.50 %	2,772,292.90 2,772,555.16	98.04 1.67 %	2,750,584.99 6,006.46	1.88 % (21,970.17)	Aaa AA+	4.84 4.65
912828A34	US Treasury Note 1.25% Due 11/30/2018	2,600,000.00	12/27/2013 1.71 %	2,543,641.52 2,543,672.92	97.86 1.71 %	2,544,344.40 2,857.14	1.73 % 671.48	Aaa AA+	4.92 4.74
Total US Treasury		28,525,600.00	1.27 %	28,316,658.76 28,338,738.62	0.94 %	28,446,591.62 76,890.82	19.42 % 107,853.00	Aaa AA+	3.21 3.14
TOTAL PORTFOLIO		145,466,713.74	1.31 %	147,089,849.21 145,704,939.69	0.82 %	146,322,773.16 559,004.69	100.00 % 617,833.47	Aa1 AA	2.47 2.31
TOTAL MARKET VALUE PLUS ACCRUED						146,881,777.85			

-243-



COMPLIANCE WITH INVESTMENT POLICY

Assets managed by Chandler Asset Management are in full compliance with State law and with the City's investment policy.

Category	Standard	Comment
Local Agency Bonds	No Limitation	Complies
Treasury Issues	No Limitation	Complies
Agency Issues	No Limitation	Complies
Banker's Acceptances	40% maximum; <180 days maturity	Complies
Commercial Paper	25% maximum; <270 days maturity; A-1/P-1/F-1 minimum ratings	Complies
Negotiable Certificates of Deposit	30% maximum; 5 years maximum maturity	Complies
Repurchase Agreements	No limitation; 1-year maximum maturity	Complies
Reverse Repurchase Agreements	20% maximum; <92 days maturity	Complies
Medium Term Notes	30% maximum; 5 years maximum maturity; A-rated or better	Complies
Money Market Mutual Funds	20% maximum; AAAf/Aaaf, minimum rating	Complies
Collateralized Certificates of Deposits	5 years maximum maturity	Complies
Time Deposits	5 years maximum maturity	Complies
Mortgage Pass-throughs, CMOs and Asset Backed Securities	20% maximum; AA-rated issue; A-rated issuer	Complies
Local Agency Investment Fund - L.A.I.F.	Maximum program limitation	Complies
Prohibited Securities	Inverse floaters; Ranges notes, Interest-only strips from mortgaged backed securities; Zero interest accrual securities	Complies
Maximum maturity	5 years	Complies
Weighted Average Maturity	3 years	Complies



Holdings Report Glossary

CUSIP (Committee on Uniform Securities Identification Procedures) – A unique identification number assigned to all securities.

Security Description - The issuer name, coupon (periodic interest payment rate) and maturity.

Par Value/Units - The face value or number of units held in the portfolio.

Purchase Date - The settlement date on which the security was purchased.

Book Yield - The YTM that equates the current amortized value of the security to its periodic future cash flows.

Cost Value - The value at which the securities were purchased, excluding purchased interest.

Book Value - The value at which an asset is carried on a balance sheet. To calculate, take the cost of an asset +/- net depreciation/amortization.

Mkt Price - The current fair value market price.

Mkt YTM – The internal rate of return that equates the periodic future cash flows (interest payments and redemption value) to the market price, assuming that all cash flows are invested at the YTM rate.

Market Value - The current fair value of an investment as determined by transactions between willing buyers and sellers.

Accrued Int. - The interest that has accumulated on a bond since the last interest payment up to, but not including, the settlement date.

% of Port. - The % of the portfolio that the security represents based on market value, including accrued interest.

Gain/Loss – The unrealized gain or loss on the security, compared to either cost or amortized value, as of the date of the report.

Moody - The Moody's rating for the security.



Holdings Report Glossary (continued)

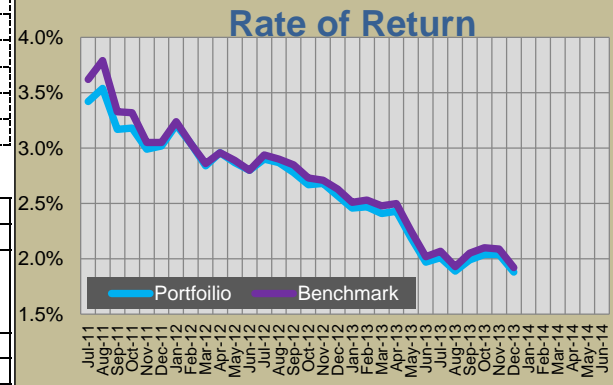
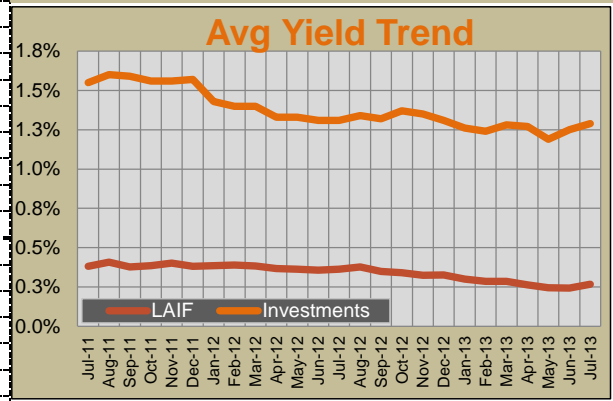
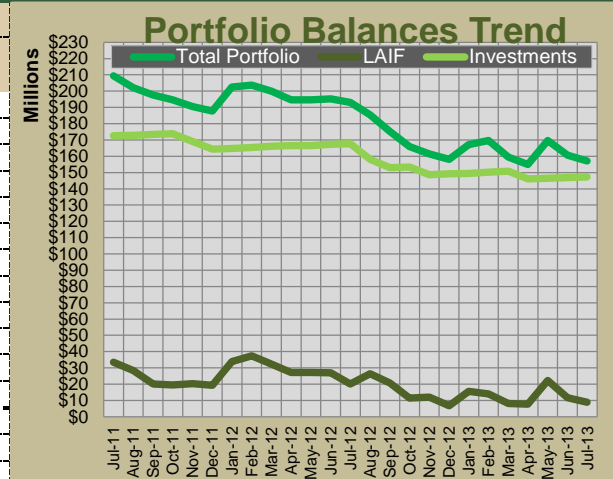
P - The Standard and Poor's rating for the security.

m (yrs) - The time, in years, until maturity.

Duration - The weighted average time to maturity of a bond where the weights are the present values of future cash flows. Duration measures the price sensitivity of a bond to changes in interest rates.

PORTFOLIO PERFORMANCE TREND

Period	Total Portfolio Balance (par)	LAIF Balance	LAIF Rate	Investment Portfolio Balance (par) (1)	Portfolio Avg Yield to Maturity (2)	Rate of Return (3)	
						Investment Portfolio (4)	Benchmark 1-5 Gov+ Corp(5)
Jul-11	209,400,514	33,418,822	0.381%	172,717,280	1.55%	3.42%	3.62%
Aug-11	202,117,750	28,318,822	0.408%	172,811,506	1.60%	3.54%	3.79%
Sep-11	197,594,979	20,108,822	0.378%	173,353,497	1.59%	3.17%	3.33%
Oct-11	194,590,683	19,588,953	0.385%	173,851,411	1.56%	3.18%	3.32%
Nov-11	190,445,403	20,338,953	0.401%	169,055,116	1.56%	2.99%	3.05%
Dec-11	187,711,375	19,388,953	0.382%	164,479,217	1.57%	3.02%	3.05%
Jan-12	202,547,757	33,849,881	0.385%	164,854,671	1.43%	3.21%	3.24%
Feb-12	203,784,148	37,499,881	0.389%	165,420,407	1.40%	3.04%	3.04%
Mar-12	199,944,204	32,324,881	0.383%	166,225,691	1.40%	2.84%	2.86%
Apr-12	194,648,091	27,254,703	0.367%	166,633,985	1.33%	2.96%	2.96%
May-12	194,648,091	27,254,703	0.363%	166,633,985	1.33%	2.87%	2.89%
Jun-12	195,227,859	27,039,703	0.358%	167,407,504	1.31%	2.80%	2.80%
Jul-12	193,175,457	20,190,538	0.363%	167,816,690	1.31%	2.90%	2.94%
Aug-12	185,345,577	26,440,538	0.377%	158,119,543	1.34%	2.87%	2.90%
Sep-12	175,199,657	20,640,538	0.348%	153,005,758	1.32%	2.78%	2.85%
Oct-12	166,024,161	11,543,940	0.340%	153,407,209	1.37%	2.67%	2.73%
Nov-12	161,523,720	11,958,940	0.324%	148,761,876	1.35%	2.68%	2.71%
Dec-12	158,187,131	6,808,940	0.326%	149,234,776	1.31%	2.57%	2.63%
Jan-13	167,188,394	15,538,247	0.300%	149,506,732	1.26%	2.46%	2.51%
Feb-13	169,656,543	14,038,247	0.286%	150,276,255	1.24%	2.47%	2.53%
Mar-13	159,465,892	8,088,247	0.285%	150,735,510	1.28%	2.41%	2.48%
Apr-13	154,956,060	7,722,451	0.264%	146,196,092	1.27%	2.43%	2.50%
May-13	169,622,945	22,352,451	0.245%	146,524,031	1.19%	2.19%	2.25%
Jun-13	160,642,643	11,652,451	0.244%	146,817,918	1.25%	1.97%	2.02%
Jul-13	157,035,166	8,901,042	0.267%	147,301,329	1.29%	2.01%	2.07%
Aug-13	158,668,278	14,860,042	0.271%	142,774,990	1.21%	1.89%	1.93%
Sep-13	150,411,661	7,060,042	0.257%	141,116,654	1.25%	1.99%	2.05%
Oct-13	149,690,495	11,790,903	0.266%	136,377,517	1.25%	2.04%	2.10%
Nov-13	147,673,632	10,460,903	0.263%	136,646,743	1.27%	2.04%	2.09%
Dec-13	145,466,714	5,860,903		137,209,798	1.31%	1.88%	1.92%
Jan-14							
Feb-14							
Mar-14							
Apr-14							
May-14							
Jun-14							



Notes:

- (1) Investment portfolio includes the only long term investment pool. Does not include LAIF and cash balances.
- (2) The rate of return on an investment or security if it were to be held until maturity. This yield does not reflect changes in the a percentage of increase over the initial investment cost. Gains on investments are considered to be any income received from the security or portfolio plus an realized capital gain. This measure of return recognizes the changes in market values of a security or portfolio of securities.
- (4) The Rate of Return for the investment portfolio reflects the performance of the portfolio since May 2010.
- (5) The portfolio benchmark is the Bank of America-Merrill Lynch 1 to 5 year Government Index/"A" Rated or better Corp

CITY OF MORENO VALLEY
Treasurer's Cash and Investments Report

BOND PROCEEDS WITH FISCAL AGENTS

Account Name	Account Number	Investment	Issuer	Purchase Date	Maturity Date	Market Value	Stated Rate	Yield	Price	% of Portfolio
<u>Wells Fargo</u>		<u>Community Facilities District 87-1 (IA-1)</u>								
special tax funds	22631800	money market fund	WF Govt Fund	12/31/13	01/01/14	182,535	0.01%	0.01%	1.00000	0.732%
interest acct	22631801	money market fund	WF Govt Fund	12/31/13	01/01/14	0	0.01%	0.01%	1.00000	0.000%
reserve fund	22631802	money market fund	WF Govt Fund	12/31/13	01/01/14	2	0.01%	0.01%	1.00000	0.000%
reserve fund	22631804	money market fund	WF Govt Fund	12/31/13	01/01/14	1,028,690	0.01%	0.01%	1.00000	4.126%
admin exp acct	22631805	money market fund	WF Govt Fund	12/31/13	01/01/14	377	0.01%	0.01%	1.00000	0.002%
debt service acct	22631809	money market fund	WF Govt Fund	12/31/13	01/01/14	536,027	0.01%	0.01%	1.00000	2.150%
special tax funds	22631900	money market fund	WF Govt Fund	12/31/13	01/01/14	99,823	0.01%	0.01%	1.00000	0.400%
reserve fund	22631904	money market fund	WF Govt Fund	12/31/13	01/01/14	365,360	0.01%	0.01%	1.00000	1.465%
admin exp acct	22631905	money market fund	WF Govt Fund	12/31/13	01/01/14	8	0.01%	0.01%	1.00000	0.000%
						2,212,822				
<u>Wells Fargo</u>		<u>CFD # 5</u>								
Series B Revenue	22333500	money mkt fund	WF Govt Fund	12/31/13	01/01/14	6,572	0.01%	0.01%	1.00000	0.026%
Series B reserve	22333503	money mkt fund	WF Govt Fund	12/31/13	01/01/14	543,239	0.01%	0.01%	1.00000	2.179%
Series B admin fund	22333504	money mkt fund	WF Govt Fund	12/31/13	01/01/14	127	0.01%	0.01%	1.00000	0.001%
						549,938				
<u>Wells Fargo</u>		<u>2007 Redevelopment Agency Tax Allocation Bonds Sereis A</u>								
debt service fund	22631700	money mkt fund	WF Govt Fund	12/31/13	01/01/14	1	0.01%	0.01%	1.00000	0.000%
interest fund	22631701	money mkt fund	WF Govt Fund	12/31/13	01/01/14	1	0.01%	0.01%	1.00000	0.000%
						2				
<u>Wells Fargo</u>		<u>2005 Lease Revenue Bond</u>								
bond fund	18042800	money mkt fund	WF Govt Fund	12/31/13	01/01/14	8	0.01%	0.01%	1.00000	0.000%
interest account	18042801	money mkt fund	WF Govt Fund	12/31/13	01/01/14	1	0.01%	0.01%	1.00000	0.000%
principal account	18042802	money mkt fund	WF Govt Fund	12/31/13	01/01/14	1	0.01%	0.01%	1.00000	0.000%
reserve fund	18042804	money mkt fund	WF Govt Fund	12/31/13	01/01/14	2,992,753	0.01%	0.01%	1.00000	12.003%
						2,992,763				
<u>Wells Fargo</u>		<u>2007 Taxable Lease Revenue Bonds - Electric Utility</u>								
bond fund	22277600	money mkt fund	WF Govt Fund	12/31/13	01/01/14	2	0.01%	0.01%	1.00000	0.000%
interest fund	22277601	money mkt fund	WF Govt Fund	12/31/13	01/01/14	1	0.01%	0.01%	1.00000	0.000%
construction fund	22277604	money mkt fund	WF Govt Fund	12/31/13	01/01/14	1,104,341	0.01%	0.01%	1.00000	4.429%
						1,104,344				
<u>Wells Fargo</u>		<u>2013 Total Road Improvement COPs</u>								
revenue fund	46612400	revenue	WF Advantage	12/31/13	01/01/14	1	0.01%	0.01%	1.00000	0.000%
reserve fund	46612403	reserve	WF Advantage	12/31/13	01/01/14	0	0.01%	0.01%	1.00000	0.000%
acquisition fund	46612407	acquisition	WF Advantage	12/31/13	01/01/14	18,067,543	0.01%	0.01%	1.00000	72.462%
cost of issuance	46612408	cost of issuance	WF Advantage	12/31/13	01/01/14	6,500	0.01%	0.01%	1.00000	0.026%
						18,074,044				
						24,933,913				
Totals										100.000%

Type	Summary of Bond Proceeds with Fiscal Agents
1	Construction Funds
2	Principal & Interest Accounts
3	Debt Service Reserve Funds
4	Custody Accounts
5	Arbitrage Rebate Accounts
6	Other Accounts
Total Fiscal Agent Funds	
24,933,913	

DEFERRED COMPENSATION FUNDS

Nationwide

Fund	Market Value as of Dec 31, 2013	Fund	Market Value as of Dec 31, 2013	Fund	Market Value as of Dec 31, 2013
Liquid Savings	\$1,434,773	Drey SmCap I		Nationwide US Sm Cap Val Ins Svc	1,966
Nationwide Fixed (Part Time Employee)	457,923	American Century Balanced	39	DFA US Micro Cap Port	136,317
Liquid Savings (Part Time Employees)	92,734	Am Century Growth	72,263	Federated Kaufmann Fund	126,482
Certificates of Deposit 1 year	30,125	Am Century Select	137,986	Invesco Mid Cap Core Equity	29,019
Certificates of Deposit 3 years	21,800	JP Morgan Mid Cap Value A	990,504	Nationwide Ret Inc Inst Svc	553
Certificates of Deposit 5 years	78,626	Vanguard Index 500	119,438	Nationwide InvDes Mod Cons Fund SC	38,153
Bond Fund of America	68,528	Vanguard Institutional Index	626,024	Nationwide InvDes Mod Aggr Fund	982,854
Growth Fund of America	119,795	Vanguard Wellington	20,686	Nationwide InvDes Aggr Fund	87,545
Investment Co. of America	40,850	Vanguard Windsor II	72,416	Nationwide InvDes Mod Fd	623,361
Income Fund of America	146,686	Vanguard Total Bond Index	208,740	Nationwide Inv Des Cons	92,126
Brown Cap Mgmt Inc SM Co	69,592	Washington Mutual Inv	91,669	Nationwide Large Cap Growth	61,064
Fidelity Independence	2,474	Templeton Foreign I		Nationwide Inter Val Inst Svc	61,497
Fidelity Equity Income	60,029	EuroPacific Growth	362,341	Nationwide Dest 2020 Inst Svc	121,531
Fidelity Magellan	281,804	Stable Fund C	2,560,122	Nationwide Dest 2025 Inst Svc	194,259
Fidelity Puritan	101,709	N B Socially Responsive Fund	42,198	Nationwide Dest 2030 Inst Svc	6,354
Fidelity Contrafund	297,070	DWS High Income Fund A	99,577	Nationwide Dest 2040 Inst Svc	102
Janus Fund	47,874	DWS Eq Divd A	75,126	Nationwide Dest 2045 Inst Svc	204
Janus Advisor Forty	61,697	Oppenheimer Global Fund A	354,460	Total Nationwide Deferred	\$11,811,065

ICMA

Fund	Market Value as of Dec 31, 2013	Fund	Market Value as of Dec 31, 2013
Aggressive Oppor.	\$168,371	VT Vantagepoint Discovery	1,026
International	248,681	VT Oppenheimer Discovery	3,683
All Equity Growth	186,321	VT Fidelity Contrafund	155,973
Growth and Income	288,703	VT Vantagepoint Overseas Equity Index Fund	100,226
Broad Market	39,150	VT Fidelity Diversified International	127,970
500 Stock Index	142,143	VT Allianz NFJ Div Value	65,200
Equity Income	434,230	Vantage Growth Fund	265,488
MS Retirement Income	32,601	VT Fidelity Puritan	7,644
Core Bond	24,419	VT Vantagepoint Select Value	1,014
Cash Management	22,748	VT TR Price Growth Stock Adv	30,111
Plus Fund	1,033,454	VT Nuveen Real Estate Secs	102,877
Retirement Income Advantage	21,887	VT TR Price Small Cap Value	173,752
Conservative Growth	136,025	VT Vantagepoint MS Ret Inc	
Traditional Growth	186,088	VT Vantagepoint Inflation Protected Securities	69,956
Long-Term Growth	413,629	VT Oppenheimer Main Street	10,159
Milestone 2010	18,203	VT Vantagepoint Mid/Sm Index	41,399
Milestone 2015	973	VT PIMCO Total Return	55,855
Milestone 2020	57,524	VT PIMCO High Yield	59,671
Milestone 2025	32,228	VT Harbor International Admi	27,733
Milestone 2030	0	VT TimesSquare Mid Cap Growth Admin	57,758
Milestone 2035	23,015		
Milestone 2040	10,869	Total ICMA	\$4,878,757

Summary by Plan

Deferred Compensation Plan	Market Value as of Dec 31, 2013
Total Nationwide	\$11,811,065
Total ICMA	4,878,757
Total Deferred Compensation Plans	\$16,689,822

Summary by Investment Type

Investment Type	Market Value as of Dec 31, 2013
Savings Deposits and CD's	\$4,597,477
Mutual Funds	12,092,345
Total Deferred Compensation Plans	\$16,689,822

This page intentionally left blank.

BOND MARKET REVIEW

A MONTHLY REVIEW OF
FIXED INCOME MARKETS



WHAT'S INSIDE

Market Summary 1
Yield Curve
Current Yields

Economic Round-Up 2
Credit Spreads
Economic Indicators

The Volcker Rule: How It . . . 3
Could Affect the Corporate
Bond Market

Since 1988, Chandler Asset Management has specialized in the management of fixed income portfolios. Chandler's mission is to provide fully customizable, client-centered portfolio management that preserves principal, manages risk and generates income in our clients' portfolios.

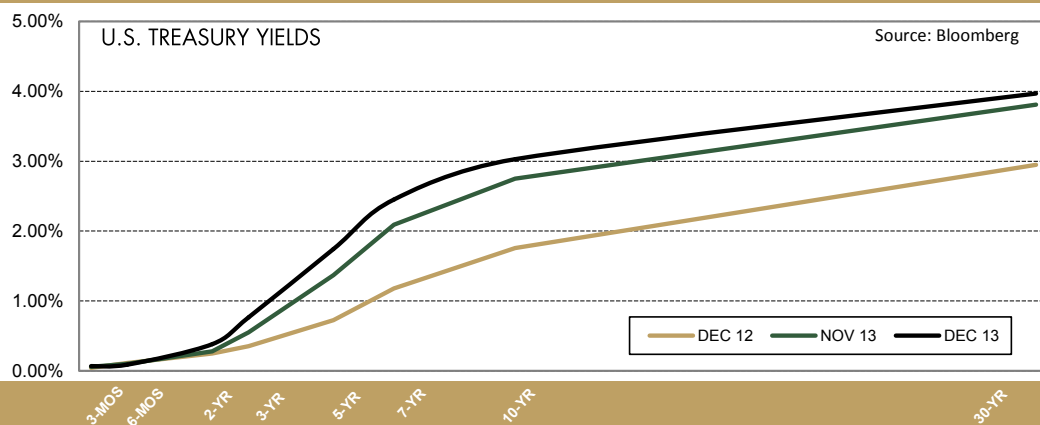
Market Summary

Overall, we believe the economy continues to be on a slow growth trajectory driven by modest ongoing improvement in the labor market. The December employment report was disappointing, but unfavorable weather may have been a contributing factor. Nonfarm payroll jobs grew just 74,000 in December (versus expectations of 200,000). Average nonfarm payroll growth during the fourth quarter of 2013 was about 172,000 per month, compared with average monthly growth of about 167,000 during the third quarter of 2013. The unemployment rate dropped to 6.7% in December from 7.0% in November, but the decline was largely driven by a decline in the labor force. The labor participation rate fell to 62.8% in December, matching the level in October which was the lowest since 1978. Meanwhile, manufacturing, housing, and consumer data has been mixed.

The FOMC began tapering its asset purchases by \$10 billion (evenly split between Treasuries and MBSs) this month, after announcing the decision to begin tapering at the December FOMC meeting. The Fed continues to purchase MBSs at a pace of \$35 billion per month (down from \$40 billion) and longer-term Treasuries at a pace of \$40 billion per month (down from \$45 billion). The path toward winding down quantitative easing continues to be data dependent, and we believe the process of unwinding will likely continue at a steady pace throughout most of 2014. However, if the next labor report for January is equally as disappointing as December, it could raise questions about the path the Fed will take toward unwinding quantitative easing. The minutes from the December FOMC meeting indicated that there was already significant debate about the timing and pace of tapering. The next FOMC meeting will be held on January 28-29. Either way, we expect that the Fed will continue to support economic growth with low policy rates throughout the coming year.

Treasury yields have continued to be somewhat volatile, as market participants have reacted to economic data releases and speculation about the pace of the Fed's tapering.

TREASURY YIELDS REMAIN VOLATILE IN DECEMBER



During the past three months, the yield curve steepened with speculation about the timing of Federal Reserve's tapering, which was finally answered at the Fed's December meeting.

TREASURY YIELDS	12/31/2013	11/30/2013	CHANGE
3 Month	0.07	0.06	0.01
2 Year	0.38	0.28	0.10
3 Year	0.77	0.55	0.22
5 Year	1.74	1.37	0.37
7 Year	2.45	2.09	0.36
10 Year	3.03	2.75	0.28
30 Year	3.97	3.81	0.16

Economic Roundup

Consumer Prices

In November, overall CPI inflation rose slightly to 1.2% on a year-over-year basis from 1.0% in October. The year-over-year Core CPI (CPI less food and energy) was unchanged at 1.7%. The core inflation rate is still trending below the Fed's long-term goal of 2.0% and remains below the trigger rate for policy action of 2.5%.

Retail Sales

In November, Retail Sales rose 4.7% on a year-over-year basis up from 4.1% in October. On a month-over-month basis, Retail Sales rose 0.7% in November, which exceeded the consensus forecast.

Labor Markets

The December employment report was weaker than expected as payrolls rose by just 74,000 versus the 200,000 consensus estimate. Unfavorable weather may have been a contributing factor. The unemployment rate declined to 6.7% from 7.0%, but the decline was largely driven by a drop in the labor participation rate. Net revisions for job growth in October and November were +38,000. Average nonfarm payroll growth during the fourth quarter 2013 was about 172,000 per month. Private payrolls increased by 87,000 in December while government jobs contracted by 13,000.

Housing Starts

Single-family housing starts jumped 20.8% in November after rising 3.8% in October. Housing starts have recently regained some momentum.

Credit Spreads Tightened

CREDIT SPREADS	Spread to Treasuries (%)	One Month Ago (%)	Change
3-month top-rated commercial paper	0.08	0.07	0.01
2-year A corporate note	0.55	0.56	(0.01)
5-year A corporate note	0.55	0.73	(0.18)
5-year Agency note	0.29	0.31	(0.02)

Source: Bloomberg

Data as of 12/31/13

Economic Data Points to Slow Growth

ECONOMIC INDICATOR	Current Release	Prior Release	One Year Ago
Trade Balance	(34.3) \$Bln NOV 13	(39.3) \$Bln OCT 13	(46.4) \$Bln NOV 12
GDP	4.1% SEP 13	2.5% JUN 13	2.8% SEP 12
Unemployment Rate	6.7% DEC 13	7.0% NOV 13	7.9% DEC 12
Prime Rate	3.25% DEC 13	3.25% NOV 13	3.25% DEC 12
CRB Index	280.17 DEC 13	274.88 NOV 13	295.01 DEC 12
Oil (West Texas Int.)	\$98.42 DEC 13	\$92.72 NOV 13	\$91.82 DEC 12
Consumer Price Index (y/o/y)	1.2% NOV 13	1.0% OCT 13	1.8% NOV 12
Producer Price Index (y/o/y)	0.7% NOV 13	0.3% OCT 13	1.5% NOV 12
Dollar/EURO	1.37 DEC 13	1.36 NOV 13	1.32 DEC 12

Source: Bloomberg

© 2014 Chandler Asset Management, Inc. An Independent Registered Investment Adviser. The information contained herein was obtained from sources we believe to be reliable, but we do not guarantee its accuracy. Opinions and forecasts regarding industries, companies, and/or the economy are all subject to change at any time, based on market and other conditions, and should not be construed as a recommendation.

The Volcker Rule: How It Could Affect the Corporate Bond Market

Paul Volcker Distilled

Paul Volcker, who served as Chairman of the Federal Reserve under Presidents Carter and Reagan, is credited with taming the high, double-digit inflation of the 1970s and early 1980s.

Known as the "Gentle Giant," he is 6-foot, 7-inches tall.

At age 85, he told the Britain newspaper The Telegraph in 2012, his big regret was that he wasn't five years younger so he could do more to reform financial systems: "If I was 80 again I would definitely take care of all this."

Volcker apparently has little regard for bankers or financial innovation. He is fond of saying, "The only useful banking innovation was the invention of the ATM."

A new federal regulation intended to prohibit banks from making speculative investments in the wake of the 2008 financial crisis, was enacted in December and will take effect starting April 1. Although the regulation, known as the Volcker Rule, was designed to make banks and the entire financial system more stable and transparent, some market analysts contend that it could lead to an array of unintended market consequences.

In particular, some believe that the Volcker Rule could affect the market for corporate bonds -- securities that are often used to positively affect yields in fixed income portfolios -- by decreasing liquidity and increasing trading costs.

We at Chandler are actively monitoring fixed-income markets for potential fall-out from the Volcker Rule and will be communicating our observations and insights. As part of this effort, we thought we'd start with a few Frequently Asked Questions:

How did the Volcker Rule come about?

The rule, named for former Federal Reserve Chairman Paul Volcker, is part of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, the most significant financial reform passed since the Great Depression. The broad goal of Dodd-Frank is to protect taxpayers from financial institutions deemed "too big to fail."

The Volcker Rule, as a key component of Dodd-Frank, seeks to prevent banks with federally insured deposits from taking excessive risks by trading securities for their own profit. Volcker, who was appointed by President Obama to chair the President's Economic Recovery Advisory Board in 2009, championed the ban, saying that such speculation by banks contributed to the financial crisis. Other financial experts, however, have described their role as minor.

What took so long?

The three-year delay implementing the Volcker Rule is blamed on a combination of intensive lobbying by the financial industry and squabbling among the five regulatory agencies involved.

What does the Volcker Rule prohibit?

It bans banks, such as Bank of America, JPMorgan Chase, Citibank, Goldman Sachs and Morgan Stanley, from "proprietary trading," that is, trading conducted for their own gain rather than that of their customers. Specifically excluded from this ban, however, is trading of U.S. Treasuries and the bonds of government-backed agencies such as Fannie Mae and Freddie Mac.

In addition, the rule prohibits banks from holding any interests in hedge funds or private equity funds.

What does it permit?

The Volcker Rule allows securities trading intended to meet demand from customers. Just how banks will determine which trades are proprietary and which are for customers is unknown and likely to take years to unfold.

What effects could it have on the corporate bond market?

We believe that the market may experience:

- ◆ **Decreased liquidity** — With banks forced to act more as “agents” (having a willing buyer and seller on both sides of the transaction) and not as “principals” (effectively putting one side of the transaction on the bank’s balance sheet), market liquidity will decrease in our opinion. Credit market liquidity has already declined since the onset of the financial crisis in anticipation of the rule’s requirements that banks hold fewer securities and hold only those of high quality. As the Volcker Rule takes hold (full compliance takes effect July 21, 2015), banks will have even less incentive to maintain a large inventory of bonds, thereby shrinking inventories.
- ◆ **Higher trading costs** — Bid/ask spreads, the difference between the price a buyer is willing to pay and the price a seller is willing to sell, will likely widen as dealers hold less inventory. In particular, the cost of trading seasoned bonds (those issued more than one year ago) could increase as dealers and investors seek to be compensated for the decrease in liquidity due to the length of time passed since issuance. Investors who trade portfolios less frequently could incur higher costs, because such portfolios are more likely to have more seasoned bonds that could over time become more expensive to trade.
- ◆ **Shifting trade platforms** — Investors are adapting to the changing market by trading directly with one another using third-party platforms such as MarketAxess. Such peer-to-peer trading requires a thorough understanding of market dynamics on a continuous basis. The process is time consuming, as investors need to “wait out” willing buyers and/or sellers rather than have a bank act as an intermediary.
- ◆ **Greater volatility** — Markets may become more volatile at turning points as dealers have little incentive to keep markets orderly when market sentiment changes. While such volatility might prove difficult for investors who trade infrequently, it could benefit full time investors who understand the risks and opportunities.

These predictions are preliminary. The full effects of the Volcker Rule are as yet unknown and will likely take years to play out. It’s also important to keep in mind that the aim of the rule is to create less risk in the markets. One thing is certain: We will watch the markets carefully and keep you updated on the Volcker Rule as needed throughout the year.

- Ann Perry

Marketing & Communications Writer

“The full effects of the Volcker Rule are as yet unknown...”

RISKS AND OTHER IMPORTANT CONSIDERATIONS

This report is provided for informational purposes only and should not be construed as specific investment or legal advice. The information contained herein was obtained from sources believed to be reliable as of the date of publication, but may become outdated or superseded at any time without notice. Any opinions or views expressed are based on current market conditions and are subject to change. This report may contain forecasts and forward-looking statements which are inherently limited and should not be relied upon as an indicator of future results. Past performance is not indicative of future results. This report is not intended to constitute an offer, solicitation, recommendation or advice regarding any securities or investment strategy and should not be regarded by recipients as a substitute for the exercise of their own judgment.

Fixed income investments are subject to interest, credit, and market risk. Interest rate risk: the value of fixed income investments will decline as interest rates rise. Credit risk: the possibility that the borrower may not be able to repay interest and principal. Low rated bonds generally have to pay higher interest rates to attract investors willing to take on greater risk. Market risk: the bond market in general could decline due to economic conditions, especially during periods of rising interest rates.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Richard Teichert, Chief Financial Officer

AGENDA DATE: February 25, 2014

TITLE: APPROVE RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DETERMINING THAT THE SPECIAL TAX OBLIGATION FOR PROPERTY IN COMMUNITY FACILITIES DISTRICT NO. 3 (AUTO MALL REFINANCING) OF THE CITY OF MORENO VALLEY FOR THE PAYMENT OF SPECIAL TAXES HAS BEEN SATISFIED, AND ORDERING THE RECORDING OF A NOTICE OF CANCELLATION OF THE SPECIAL TAX LIEN

RECOMMENDED ACTION

Recommendation:

1. Approve Resolution No. 2014-15. A Resolution of the City Council of the City of Moreno Valley, California, Determining that the special tax obligation for property in Community Facilities District No. 3 (Auto Mall Refinancing) of the City of Moreno Valley for the payment of special taxes has been satisfied, and ordering the recording of a Notice of Cancellation of the special tax lien.

SUMMARY

This report recommends approval of a Resolution which will authorize the recordation of a Notice of Cancellation of the special tax lien to be recorded against properties within CFD No. 3. The bonds have been paid in full and the special tax lien has been satisfied.

DISCUSSION

In March 2000, the City formed Community Facilities District No. 3 ("CFD No. 3" or "District") for the purpose of restructuring the special tax and issuing bonds to refinance

CFD No. 2. On April 5, 2000, \$8,075,000 of CFD No. 3 Special Tax Bonds, Series 2000 (the "Bonds") were sold to refinance the outstanding CFD No. 2 bonds. The Bonds are special obligations of CFD No. 3 and are payable solely from and secured by revenues derived from certain annual special taxes levied on and collected from the taxable properties within CFD No. 3. Ordinance No. 565, as adopted on March 14, 2000, authorizes the legislative body by resolution to annually levy the special tax on the Riverside County Property Tax Bill. The bonds were scheduled to mature in 2019, with the final debt service payment due on September 1, 2019.

Pursuant to the redemption provisions of the Bond Indenture, the outstanding bonds were subject to an optional redemption, at a redemption price equal to the principal amount of the outstanding bonds plus accrued interest thereon to the redemption date without premium (the "Redemption Price"), **from any source of funds**. In 2013, the property owners within CFD No. 3 contributed an amount sufficient to pay off the balance of the bonds, plus administrative and third party costs to close out the bonds. In September of 2013, the bonds were fully redeemed. In November of 2013, Willdan Financial completed the final arbitrage report, concluding there is no rebate liability or report due the IRS.

Section 53330.5 of the California Government Code provides that a special tax may be levied by a community facilities district only so long as it is needed to pay the principal and interest on debt incurred by the community facilities district. Given the special tax is no longer needed to make debt service payments, a Notice of Cessation of Special Tax is required to be recorded against the affected properties.

Therefore, it is requested that the City Council approve the attached resolution, directing the City Clerk to record the Notice of Cessation against the property in the CFD, thereby eliminating the City's ability to levy the special tax.

ALTERNATIVES

1. **Approve the Proposed Resolution** of the City Council of the City of Moreno Valley, California, Determining that the special tax obligation for property in Community Facilities District No. 3 (Auto Mall Refinancing) of the City of Moreno Valley for the payment of special taxes has been satisfied, and order the recordation of a Notice of Cessation of the special tax lien. The bonds for CFD No. 3 have been paid in full and administrative costs associated with CFD No. 3 (Auto Mall Refinancing) have been satisfied. The special tax is no longer necessary to pay the principal and interest on the debt. *Approval of this alternative is in keeping with legal requirements necessary to remove the taxing obligation on those properties formerly subject to the special tax for CFD No. 3 (Auto Mall Refinancing).*
2. **Do not approve the Proposed Resolution** of the City Council of the City of Moreno Valley, California, Determining that the special tax obligation for property in Community Facilities District No. 3 (Auto Mall Refinancing) of the City of Moreno Valley for the payment of special taxes has been satisfied, nor order the recordation of a Notice of Cessation of the special tax lien. *This alternative would cause an*

unnecessary taxing obligation to remain on properties that have satisfied the repayment obligation for CFD No. 3 (Auto Mall Refinancing) and would run counter to state legislative requirements that allow for the removal of the special tax lien.

FISCAL IMPACT

There is no fiscal impact to the city by taking this action. Administrative costs incurred as part of this action will be borne by administrative fees already collected from the balance of funds remaining in the trust account for this purpose.

CITY COUNCIL GOALS

Revenue Diversification and Preservation

Repayment of the Bonds and all associated costs to repay CFD No. 3 (Auto Mall Refinancing) bonded indebtedness have been satisfied in accordance with the provisions of the Rate and Method of Apportionment and the Bond Indenture.

NOTIFICATION

Not applicable

ATTACHMENTS

Attachment 1 – Proposed Resolution

Prepared By:
Candace E. Cassel
Special Districts Division Manager

Department Head Approval:
Richard Teichert
Chief Financial Officer

This page intentionally left blank.

RESOLUTION NO. 2014-15

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA DETERMINING THAT THE SPECIAL TAX AUTHORIZED TO BE LEVIED IN COMMUNITY FACILITIES DISTRICT NO. 3 (AUTO MALL REFINANCING) OF THE CITY OF MORENO VALLEY SHALL CEASE TO BE LEVIED, AND ORDERING THE RECORDING OF A NOTICE OF CESSATION OF THE SPECIAL TAX LIEN

WHEREAS, the City Council (the "City Council") of the City of Moreno Valley (the "City") has conducted and completed proceedings pursuant to Chapter 2.5 (commencing with Section 53311) of Part 1 of Division 2 of Title 5 of the California Government Code, commonly known as the "Mello-Roos Community Facilities Act of 1982," for the formation of Community Facilities District No. 3 (Auto Mall Refinancing) of the City of Moreno Valley (the "Community Facilities District") for the purpose of authorizing the levy of a special tax and the issuance of bonds secured by such special tax in order to defease and refinance the Community Facilities District No. 2 (Moreno Valley Auto Mall) of the City of Moreno Valley Special Tax Bonds (the "Prior Special Tax Bonds"); and

WHEREAS, pursuant to the requirements of Section 3114.5 of the California Streets and Highways Code and Section 53328.3 of the California Government Code, the City Clerk of the City previously caused to be recorded in the records of the County Recorder for the County of Riverside, a Notice of Special Tax Lien for the Community Facilities District, which gave notice that a lien was imposed to secure payment of special taxes which the Community Facilities District was authorized to levy on the real property located within the Community Facilities District; and

WHEREAS, on April 5, 2000, the District issued its Community Facilities District No. 3 (Auto Mall Refinancing) Special Tax Bonds, Series 2000 (the "Series 2000 Special Tax Bonds") in the initial principal amount of \$8,075,000 to defease and refinance the Prior Special Tax Bonds, to fund costs of issuance and administrative expenses and to fund a reserve fund for the Series 2000 Special Tax Bonds; and

WHEREAS, the remaining outstanding 2000 Special Tax Bonds were redeemed in full on September 1, 2013; and

WHEREAS, Section 53330.5 of the California Government Code provides that a special tax may be levied by a community facilities district only so long as it is needed to pay the principal and interest on debt incurred by the community facilities district; and

WHEREAS, Section 53330.5 further provides that when the legislative body of a community facilities district determines that the special tax shall cease to be levied, the

1
Resolution No. 2014-15
Date Adopted: February 25, 2014

legislative body shall direct the clerk to record a Notice of Cessation of Special Tax that shall state that the obligation to pay the special tax has ceased and that the lien imposed by the Notice of Special Tax Lien previously recorded for such community facilities district is extinguished; and

WHEREAS, as a result of the redemption of the 2000 Special Tax Bonds, the City Council desires to order the recordation of a Notice of Cessation .

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

That the above recitals are true and correct.

That this City Council hereby determines that the special tax authorized to be levied within the Community Facilities District is no longer needed to pay the principal and interest on debt incurred by the Community Facilities District and shall, therefore, cease to be levied;

That the City Clerk, acting for and on behalf of Community Facilities District, is hereby ordered to cause a Notice of Cessation of Special Tax to be recorded in the office of the County Recorder of the County of Riverside pursuant to California Government Code Section 53330.5 against the property located within the Community Facilities District; and

That this resolution shall take effect from and after its adoption.

APPROVED AND ADOPTED this 25th day of February, 2014.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

2
Resolution No. 2014-15
Date Adopted: February 25, 2014

60304.00002\8563537.1

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2014-15 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 25th day of February, 2014 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

3
Resolution No. 2014-15
Date Adopted: February 25, 2014

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: John C. Terell, Community & Economic Development Department

AGENDA DATE: February 25, 2014

TITLE: ACCEPTANCE OF THE CITY OF MORENO VALLEY STRATEGIC PLAN STRATEGIES, PHASE 3 (SOUTHERN CALIFORNIA EDISON ENERGY EFFICIENCY STRATEGIC SOLICITATION)

RECOMMENDED ACTION

Recommendations:

1. Adopt Resolution No. 2014-16. A Resolution of the City Council of the City of Moreno Valley, California, accepting the City of Moreno Valley Strategic Plan Strategies, Phase 3 (Southern California Edison Energy Efficiency Strategic Solicitation) and authorizing the Chief Financial Officer/City Treasurer to create the necessary budgetary appropriations for the Phase 3 Solicitation.

SUMMARY

On April 1, 2013 staff submitted a request for proposal to Southern California Edison (SCE) Local Government Strategic Plan Strategies Solicitation Phase 3 program to provide funding to assist in the implementation of the City Council approved Energy Efficiency and Climate Action Strategy. On May 10, 2013, SCE informed staff that the City's proposal for a Phase 3 Solicitation had been approved. Since that time, Southern California Edison staff has been in the process of obtaining approval from the California Energy Commission for the approval of the proposed Phase 3 program. In addition, planning staff worked with SCE staff to address questions that California Public Commission staff had regarding two of the tasks. On December 12, 2013, SCE forwarded the final draft of the contract and Statement of Work to City Staff.

DISCUSSION

The Phase 3 Solicitation provides \$100,920 in funds to complete four different tasks related to energy efficiency. The monies will fund existing staff resources to complete the required tasks. All Phase 3 Solicitation activities must be completed by December 31, 2014.

The specific tasks are as follows:

A. – Redesign Forms: Enforcement Compliance, Plan Review Process.

This task will redesign forms and hand-outs, and create hand-out(s) pertaining to CalGreen and the incorporation of EE into construction projects within the City. These forms will help developers and homeowners by providing information early in the process, and will reflect the updated changes to Title 24 and CalGreen through the end of 2013.

Through this task the City will evaluate the processes of other cities, including information, forms, and processes on processing permits and plans for CalGreen compliance. Forms and handouts will be developed based on this evaluation.

B. – LEED Standards for New Municipal Facilities.

The City will prepare and adopt a policy requiring new city buildings to be designed consistent with more efficient standards than currently required. As part of the task, the City will:

- Implement a measure that is included in the City's Energy Action Plan and Climate Action Strategy.
- Develop a standard that requires new City buildings to meet LEED standards without actually being LEED-certified. Since LEED-certification is costly, this standard would result in buildings that are more energy efficient than simply meeting code while avoiding the cost of LEED-certification.
- Review similar standards established by other local governments to leverage their efforts.

C. – Update the Implementer's General Plan with a Discussion of Energy Efficiency.

This task will update the conservation element of the City's General Plan to include a detailed discussion of energy efficiency. The updated General Plan will provide an overview of the larger context of energy efficiency policy, and the City's recently approved Climate Action Strategy and Greenhouse Gas Analysis. The final General Plan document will provide useful information that can be integrated into the planning efforts for use by the general public, private developers, and city staff or other governmental entities.

D. – Municipal Code Amendment to Provide Residential Density Bonuses for Energy Efficient Projects

Through this task the City will develop a municipal code amendment to establish “density bonuses” for new residential developments that exceed Title 24 building code criteria, and to allow and encourage integration of Energy Efficiency (EE) into building design. The Implementer will develop a draft ordinance that would provide density bonuses for projects that incorporate specific criteria into their building design that result in achieving a quantifiable percentage reduction in energy usage beyond the Title 24 building code requirement. Energy producing measures (e.g., solar photovoltaic) would be excluded. New residential developments would meet these criteria by incorporating EE measures into the building design. The Implementer will conduct research and analysis to assess the parameters used for establishing density bonuses for all new residential developments within the City.

The Solicitation also includes program ramp-up, invoicing and reporting, program ramp-down, and preparation of a final report.

ALTERNATIVES

1. Accept the Phase 3 Solicitation. This Alternative is recommended by staff to provide resources for implementation of the Energy Efficiency and Climate Action Strategy.
2. Not accept the Phase 3 Solicitation. This Alternative is not recommended since it would reduce resources for the implementation of the Energy Efficiency and Climate Action Strategy.

FISCAL IMPACT

The Phase 3 Solicitation will provide \$100,920 to fund the implementation of the Energy Efficiency and Climate Action Strategy and fund existing staff resources to complete the required tasks.

Budget Adjustments/Appropriations

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 13/14 Budget	Proposed Adjustments	FY 13/14 Amended Budget
Receipt of Grant	SCE	2012-20-27-72201-489000	Rev	\$30,000	\$70,920	\$100,920
Administration	SCE	2012-20-27-72201	Exp	\$31,249	\$69,671	\$100,920

CITY COUNCIL GOALS

The grant supports the City council goals of 1) Revenue Diversification and Preservation, by providing non-General Fund resources for the development of the Energy Efficiency and Climate Action Strategy; 2) Public Facilities and Capital Projects, by reducing the life cycle energy costs of City facilities; 3) Positive Environment, by providing clear and practical energy efficiency policies for the development community; and 4) Community Image, Neighborhood Pride and Cleanliness, by enhancing the image of the City as a leader in regional energy efficiency policy.

NOTIFICATION

The item was listed on the City Council agenda.

ATTACHMENTS

1. Proposed Resolution
2. Proposed Phase 3 Solicitation Contract
3. Proposed Phase 3 Solicitation Statement of Work

Prepared By:
Gabriel Diaz
Associate Planner

Department Head Approval:
John C. Terrell
Community & Economic Development Director

Concurred By:
Chris Ormsby
Interim Planning Official

Concurred By:
Ahmad Ansari
Public Works Director/City Engineer

RESOLUTION NO. 2014-16

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ACCEPTING THE CITY OF MORENO VALLEY STRATEGIC PLAN STRATEGIES, PHASE 3 (SOUTHERN CALIFORNIA EDISON ENERGY EFFICIENCY STRATEGIC SOLICITATION) AND AUTHORIZING THE CHIEF FINANCIAL OFFICER/CITY TREASURER TO CREATE THE NECESSARY BUDGETARY APPROPRIATIONS FOR THE PHASE 3 SOLICITATION

WHEREAS, the City Council has identified the enhanced energy efficiency in City facilities and the community at large as a priority; and

WHEREAS, City Council has directed staff to implement the Energy Efficiency and Climates Action Strategy for the City to further this priority; and

WHEREAS, there are limited City General Fund resources to fund energy efficiency planning efforts; and

WHEREAS, all legal prerequisites to the adoption of this Resolution have occurred; and

WHEREAS, all of the facts set forth in this Resolution are true and correct.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. **ACCEPTS** the City of Moreno Valley Strategic Plan Strategies, Phase 3 (Southern California Edison Energy Efficiency Strategic Solicitation), and
2. **AUTHORIZE** the Chief Financial Officer/City Treasurer to create the necessary budgetary appropriations for the City of Moreno Valley Strategic Plan Strategies, Phase 3 (Southern California Edison Energy Efficiency Strategic Solicitation).

1
Resolution No. 2014-16
Date Adopted: February 25, 2014

APPROVED AND ADOPTED this 25th day of February, 2014.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

Resolution No. 2014-16²
Date Adopted: February 25, 2014

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2014-16 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 25th day of February, 2014 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

Resolution No. 2014-16³
Date Adopted: February 25, 2014

This page intentionally left blank.

SOUTHERN CALIFORNIA EDISON

**CALIFORNIA ENERGY EFFICIENCY STRATEGIC PLAN
IMPLEMENTATION CONTRACT**

CITY OF MORENO VALLEY STRATEGIC PLAN STRATEGIES PHASE 3

Contract No. 23399

THIS CONTRACT FOR SERVICES (“Contract”) is by and between SOUTHERN CALIFORNIA EDISON (“SCE”) and the City of Moreno Valley (“Implementer”), which Contract shall be effective as of _____ (“Effective Date”). SCE and Implementer may be referred to herein individually as a “Party” and collectively as the “Parties.”

WHEREAS, on November 8, 2012 in Decision 12-11-015, the California Public Utilities Commission (“Commission”) authorized certain energy efficiency programs, including the Energy Leader Partnership Program for the 2013-2014 program cycle

WHEREAS, in Decision 12-11-015, the Commission further authorized SCE to conduct a solicitation for certain energy efficiency strategic planning activities in connection with, and to support, its approved Energy Leader Partnership Programs and local governments generally;

WHEREAS, SCE has selected the Implementer to implement the City of Moreno Valley Strategic Plan Strategies Phase 3 (referred to hereinafter as the “Program”), promoting long-term energy efficiency and climate action activities;

WHEREAS, the Implementer shall implement the Program for the benefit of certain participating governmental jurisdictions and their constituents;

WHEREAS, the Parties desire to enter into an agreement that supersedes any and all previous agreements, and sets forth the terms and conditions under which the Program shall be implemented with respect to the Parties; and

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1.0 DEFINITIONS:

All terms used in the singular will be deemed to include the plural, and vice versa. The words “herein,” “hereto,” and “hereunder” and words of similar import refer to this Contract as a whole, including all exhibits or other attachments to this Contract, as the same may from time to time be amended or supplemented, and not to any particular subdivision contained in this Contract, except as the context clearly requires otherwise. “Includes” or “including” when used herein is not intended to be exclusive, or to limit the generality of the preceding words, and means “including without limitation.” The word “or” is not exclusive.

1.1. Business Day: The period from one midnight to the following midnight, excluding Saturdays, Sundays, and holidays.

1.2. Calendar Day: The period from one midnight to the following midnight, including Saturdays, Sundays, and holidays. Unless otherwise specified, all days in this Contract are Calendar Days.

1.3. Contract: This document issued by SCE to Implementer, as may be amended in writing as provided herein, which authorizes the Work, states the terms and conditions, and incorporates by reference the Statement of Work and any other referenced documents, if applicable, all of which form the agreement (Contract) between the Parties, with the following priority in the event of conflicting provisions: Amendments, from the most recent to the earliest; the Statement of Work; this Contract; and any other referenced documents.

1.4. Energy Efficiency Measure (or Measure): As used in the Commission's Energy Efficiency Policy Manual, Version 4, August 2008.

1.5. EM&V: Evaluation, Measurement and Verification of the Program pursuant to Commission requirements.

1.6. Implementer Budget: The approved maximum budget for funding the performance by Implementer of the Program, as set forth in the Statement of Work attached hereto as Exhibit A.

1.7. Incentive: As used in the Commission's Energy Efficiency Policy Manual, Version 4, August 2008.

1.8. Jobsite: An SCE facility or designated third party property at or for which the Work is performed.

1.9. Participating Municipality: Those jurisdictions or member cities that: (i) are located in SCE's service territory; and (ii) have been selected by SCE and Implementer to participate in the City of Moreno Valley Strategic Plan Strategies Phase 3 as set forth in the Statement of Work.

1.10. Program: The City of Moreno Valley Strategic Plan Strategies Phase 3 program.

1.11. Procurement Energy Efficiency Funds: The funds which make up the Implementer Budget and which are collected from electric utility ratepayers for public purposes programs, including energy efficiency programs approved by the Commission.

1.12. Statement of Work (SOW): A statement of the tasks to be performed by the Implementer, commercial terms including the Implementer Budget, reporting

requirements and other necessary information, as set forth in Exhibit A and incorporated herein as part of this Contract, as such SOW may be modified from time to time as provided herein.

1.13. Subcontractor: An entity contracting directly or indirectly with a Party, or any Subcontractor thereof, to furnish services or materials as part of or directly related to such Party's Work obligations.

1.14. Work: The work authorized by SCE for the Program as set forth in this Contract and as more fully described in the SOW attached hereto as Exhibit A.

2. PURPOSE

The Program is funded by California utility ratepayers and is administered by SCE under the auspices of the Commission. The purpose of this Contract is to authorize the expenditure of Procurement Energy Efficiency funds to Implementer for services performed pursuant to the terms of this Contract and to set forth the terms and conditions under which the Program will be implemented. The work authorized pursuant to this Contract is not to be performed for profit.

The Program was designed in furtherance of California's Long-Term Energy Efficiency Strategic Plan adopted by the Commission in 2008 ("Strategic Plan"). The Strategic Plan was formulated and developed through a collaborative effort among key stakeholders, including local governments, SCE and other California investor-owned utilities, and the Commission's Energy Division, and provides a strategic menu list of options that local governments can address during the 2013-2014 program cycle. The goal of the strategic plan menu is to present activities centered on energy efficiency and to address the "Big, Bold" strategies found in the Strategic Plan. The strategies are designed to embed and institutionalize energy efficiency in policies, programs, and processes within local governments.

3. AUTHORIZED WORK

3.1. Scope. The Work authorized under this Contract is set forth in the Statement of Work (Exhibit A) and shall be performed pursuant to the terms of this Contract.

3.2. Goals and Objectives. The Program is designed to meet the specific goals, objectives and milestones within the schedule and budget set forth in the Statement of Work (Exhibit A).

4. OBLIGATIONS OF PARTIES

4.1. General Obligations of Implementer.

4.1.1. Implementer will appoint a Program representative ("Implementer Representative") who will be the primary contact between SCE and Implementer, and who will be authorized to act on behalf of

Implementer in carrying out its obligations under this Contract. Such appointment shall be communicated in writing to SCE's designated Contract Program Manager within ten (10) Business Days following execution of this Contract.

- 4.1.2. Implementer shall be responsible for achieving the goals and objectives and producing the deliverables as set forth in the Statement of Work.
- 4.1.3. Implementer shall perform its Work obligations within the Implementer Budget and in conformance with the schedule associated with such Work as set forth in the Statement of Work, and shall furnish the required labor, equipment and material with the degree of skill, care and professionalism that is required by current professional standards.
- 4.1.4. Implementer shall be primarily responsible for coordinating the preparation of all Program-related documents, including all required reporting of Implementer pursuant to Section 9, and any such other reporting as may be requested by SCE. Implementer shall obtain the approval of SCE prior to usage of any SCE Program documents or other energy efficiency program documents or materials offered by SCE.
- 4.1.5. Upon reasonable request, Implementer shall submit to SCE all contracts, agreements or other requested documents with Implementer's Subcontractors performing Work for the Program.

4.2. General Obligations of SCE.

- 4.2.1. SCE will appoint a Program representative ("SCE Representative" or "Contract Program Manager" ("CPM")) who will be the primary contact between SCE and Implementer, and who will be authorized to act on behalf of SCE in carrying out SCE's obligations under this Contract.
- 4.2.2. SCE shall administer the Procurement Energy Efficiency funds authorized by the Commission for the Program in accordance with this Contract.

5. **MARKETING**

5.1. Marketing Materials. Implementer shall obtain the approval of SCE when developing Program marketing materials and prior to distribution, publication, circulation, or dissemination in any way to the public by Implementer or by a Participating Municipality. In addition, all advertising, marketing or otherwise printed or reproduced material (including website material) used to implement, refer to or is in anyway related to the Program must contain the respective name and logo of SCE and, at a minimum, the following language: *"This Program is*

funded by California utility ratepayers and administered by Southern California Edison under the auspices of the California Public Utilities Commission.”

5.2. Outreach. Implementer shall obtain the approval of SCE prior to implementation by Implementer or a Participating Municipality, of any public outreach activities or campaigns for the Program (exhibits, displays, public presentations, canvassing, etc.), and any marketing materials used in connection with such outreach activity shall comply with all requirements of Section 6 of this Contract.

5.3. Use of SCE Name. Implementer must receive prior review and written approval from SCE for the use of SCE’s name or logo on any marketing or other Program materials. Implementer shall allow five (5) Business Days for SCE review and approval. If Implementer has not received a response from SCE within the five (5) Business Day period, then it shall be deemed that SCE has disapproved such use.

5.4. Use of Commission’s Name. No Party may use the name of the Commission on marketing materials for the Program without prior written approval from the Commission staff. In order to obtain this written approval, SCE must send a copy of the planned materials to the Commission requesting approval to use the Commission’s name and/or logo. Notwithstanding the foregoing, the Parties shall disclose their source of funding for the Program by stating prominently on marketing materials that the Program is “funded by California ratepayers under the auspices of the California Public Utilities Commission.”

6. CONTROL OF WORK

6.1 Compliance with Work Schedule: Implementer shall perform the Work in compliance with the Work schedule set forth in the Statement of Work. If performance of the Work (including any task, or achievement of any goals or objectives outlined in the Statement of Work) is delayed beyond the schedule for any reason, or if Implementer is aware that such Work will be delayed for any reason, Implementer shall notify the SCE Representative within thirty (30) Business Days in writing. SCE may, in its sole discretion, accept the delay, reduce the Work and Implementer Budget accordingly, or terminate the Contract, within thirty (30) Business Days following receipt of such written notice of delay from Implementer. Failure of Implementer to notify SCE in writing of such delay in the Work schedule within thirty (30) Business Days shall constitute a breach of this Contract and SCE may exercise any of the remedies set forth in this Section or in Section 23.

6.2 Changes to Work:

6.2.1 Changes. SCE may at any time make changes to the Work including additions, reductions, and changes to any or all of the Work, as directed in writing by the SCE Representative. Such changes may be made with a Change Order. The Implementer Budget and Work schedule shall be equitably adjusted, if required, to account for such changes and shall be set forth in a Change Order.

6.2.2 SCE Authority To Shift Funds Or Modify: SCE, in its sole discretion, may reallocate funds among the programs in its energy efficiency portfolio, or modify in anyway the program, funding or Work. In the event that SCE elects to change or modify the funding, program or Work, Implementer shall be notified in writing and if applicable by a Change Order to this Contract. Such Change Order will specify any changes to the Implementer's Scope of Work and may increase, decrease, or terminate overall program funding.

6.3 Stop Work Procedures: SCE may suspend Implementer's Work at any time upon notice to Implementer for convenience or for cause, including, without limitation, program funding, program implementation or management, safety concerns, fraud or complaints. Implementer shall stop performing the Work immediately upon receipt of such notice. Implementer shall resume the Work only upon receiving written notice from SCE that it may do so. .

6.4 Key Personnel: Implementer shall deliver to SCE a list of Implementer's key personnel prior to commencing the Work. Any change to Implementer's key personnel shall be pre-approved by SCE; provided, however, that an unplanned personnel change shall be reported to the SCE Representative immediately. The Implementer shall designate a person that shall coordinate all Work and communicate regularly for the Implementer with the SCE Representative. Implementer shall promptly replace any key personnel if requested by the SCE Representative, provided however, that this provision does not in any way require, endorse or approve (expressed or implied) the termination of employment by the Implementer of any employee replaced under the terms of this paragraph.

6.5 Subcontractors: Any Work subcontracted by Implementer shall be identified as such in the Contract and any Work subcontracted to an Implementer's affiliated entity shall be similarly specifically identified. For any subcontracted Work, the prior written approval of the SCE Representative shall be required for each Subcontractor, the activities to be performed, and the related charges. Implementer shall at all times be responsible for the Work, and for the acts and omissions of Subcontractors and persons directly or indirectly employed by them. Implementer shall be solely responsible and liable for ensuring that the terms and conditions of all subcontracts are in accordance with this Contract, including but not limited to all invoicing requirements. Any review or approval by SCE of a Subcontractor or a subcontract shall not relieve Implementer of its obligations hereunder.

6.6 Additional Instructions: If Implementer receives any verbal or written instructions for performance of Work from SCE personnel other than the SCE Representative, Implementer shall promptly reconfirm such instructions with the SCE Representative and request that a corresponding Change Order be issued as necessary.

6.7 Emergencies: In an emergency endangering life or property, Implementer shall: a) perform Work or such other services or work as is necessary to meet the emergency; and b) immediately notify SCE.

6.8 Drafts: Draft copies of required reports shall be submitted to the SCE Representative for review for contractual compliance, satisfaction of SCE needs and

good professional practices, comments, and approval, prior to the due date of such reports.

6.9 Inspection: SCE authorized representatives shall have the right of access to and inspection of Implementer's facilities and/or locations at reasonable times during regular business hours regarding performance of the Work.

6.10 Uncontrollable Forces: Implementer shall not be liable for delay in the Work Schedule or inability to perform the Work due to any cause beyond its reasonable control, such as strike, flood, fire, lightning, epidemic, quarantine restriction, war, sabotage, act of a public enemy, earthquake, or critical material unavailability; provided that Implementer promptly notifies SCE in writing of the nature, cause, date of commencement, and expected impact of the event and has exercised due diligence in proceeding to meet the Work Schedule. SCE shall extend the Work Schedule for an equitable period due to such causes without any change in the Contract price.

7. FITNESS FOR DUTY/JOBSITE ACCESS REQUIREMENTS

7.1 Fitness for Duty:

7.1.1 Implementer and its Subcontractor personnel on a Jobsite:

- (i) Shall report for work in a manner fit to do their job;
- (ii) Shall not be under the influence of or in possession of any alcoholic beverages or of any controlled substance (except a controlled substance as prescribed by a physician for such person so long as the performance or safety of the Work is not affected thereby); and
- (iii) Shall not have been convicted of any serious criminal offense which, by its nature, may have a discernible adverse impact on the business or reputation of SCE.

7.1.2 Inspection: Searches by SCE authorized representatives may be made of lockers, storage areas, vehicles, persons or personal effects on SCE owned, or leased property at various times without prior announcement. Such facility inspections may be conducted using detection dog teams to search work areas and other common areas in order to detect evidence of unlawful drug use or the presence of pyrotechnics, explosives, firearms, weapons, or facsimiles thereof, alcoholic beverages and illegal drugs ("Prohibited Items"). Prohibited Items must not be brought onto, or kept on, SCE property.

7.1.3 Compliance: Implementer shall advise its employees of the requirement of this Section 7.1 ("Fitness for Duty Requirements") before they enter on the Jobsite and shall immediately remove from the Jobsite any employee determined to be in violation of these requirements. Implementer shall impose these requirements on its Subcontractors. SCE may cancel the Contract if Implementer violates these Fitness for Duty Requirements.

7.2. JOBSITE ACCESS REQUIREMENTS

7.2.1 Notification of Convictions: During application for Jobsite access, and/or during the Work, Implementer shall immediately notify SCE whenever Implementer becomes aware of evidence that any Implementer's or its Subcontractors' employee, who has, or will have, Jobsite access, has been convicted of a serious criminal offense.

7.2.2 Visitor Badge Requirement: All visitors to a particular Jobsite must comply with that Jobsite's visitor access requirements.

7.3. Sexual Harassment: SCE supports a diverse work force and prohibits unlawful employment discrimination and harassment of every kind, including sexual harassment, in accordance with state and federal laws. Whenever present on SCE property or facilities, Implementer shall require its employees, Subcontractors, agents to comply with all applicable federal and state statutes, acts, regulations, codes and standards prohibiting conduct that might reasonably be construed as violating state or federal equal opportunity laws, including conduct such as making sexually suggestive jokes or remarks, touching, assaulting, making gestures of a sexual or suggestive nature, and impeding or blocking any SCE employee's, subcontractor's or agent's movement.

8. DOUBLE DIPPING PROHIBITED

If, in performing its respective Work obligations, Implementer engages contractors or vendors who provide incentives or services to SCE customers, Implementer shall take all appropriate steps to minimize double-dipping. As applicable:

8.1. Prior to providing incentives or services to any eligible customer, Implementer shall require its Subcontractors to obtain a signed form from such eligible customer stating that:

8.1.1. Such eligible customer has not received incentives or services for the same measure from any other SCE program or from another utility, state, or local program; and

8.1.2. Such eligible customer agrees not to apply for or receive Incentives or services for the same measure from any other SCE program or from another utility, state, or local program.

Each Party shall keep its customer-signed forms for at least five (5) years after the expiration or termination of this Contract.

8.2. No Party shall knowingly provide an incentive to a Participating Municipality, or make payment to a Subcontractor, who is receiving compensation for the same product or service either through another ratepayer funded program, or through any other funding source.

9. REPORTING/EM&V

9.1. Reporting. The Parties shall implement all reporting requirements set forth in the Statement of Work, including Appendix A and B of the Statement of Work. The reporting requirements set forth in such Appendix B will be amended when issued by the Commission for the 2013-2014 Program cycle, and may be amended from time to time thereafter at the discretion of the Commission. Upon issuance by the Commission of revised reporting requirements for 2013-2014 related to the Program, such Commission-approved reporting requirements shall replace the reporting requirements set forth in Appendix B of the Statement of Work in their entirety upon written notice to the Implementer, which notice shall include a copy of the revised Appendix B.

9.2. EM&V. The evaluators will be asked to prepare a Program logic model based upon the written proposal and on interviews with the Implementer. Research issues will be defined in collaboration with SCE program managers and may include questions such as: How well were program activities documented? How effectively was the proposed plan implemented? What could be done to improve the plan's effectiveness? Who are the decision-makers, and what information did they use to make their decisions?

10. PAYMENTS/COMMERCIAL TERMS

10.1. Implementer Budget. The Implementer Budget is set forth in the Statement of Work. Implementer shall not be entitled to compensation in excess of the Implementer Budget without a Change Order issued and signed by SCE.

10.2. Time and Material Basis. All Work will be performed on a time and material basis and subject to the following general provisions:

10.2.1. General Provisions.

- a. All charges shall be directly identifiable to, and required for the Work.
- b. Any charges for overtime shall require the prior written approval of the SCE Representative. Overtime rates shall be authorized and charged only for non-exempt personnel.
- c. Implementer shall complete the Work within the amount authorized by the Contract and in accordance with the Work Schedule. Implementer shall notify SCE's procurement agent responsible for the Contract and the SCE Representative at such time that it becomes reasonably apparent that the forecasted cumulative charges will exceed any amounts authorized by the Contract (whether by task, total amount of Contract, or both). Implementer shall not proceed with or be reimbursed for any Work performed, either beyond the effective period of the Contract, or exceeding the authorized amounts of the Contract, without a Change Order.

10.2.2 Labor Related Costs Under Time and Material Basis. Implementer shall invoice SCE at the fixed hourly rates for the applicable labor

categories stated in the Contract for time spent directly engaged in performance of the Work by Implementer's employees. Such fixed hourly rates shall be inclusive of all of Implementer's overhead costs (including all taxes and insurance), administrative and general fees, and profit.

10.2.3 Invoices. Implementer shall submit monthly invoices for the costs incurred in the prior month and shall include a cost breakdown for each task identified in the Statement of Work. Each invoice shall include:

10.2.3.1 Status

- a. SCE's Contract number.
- b. Task Description.
- c. Cost incurred to date.
- d. Current monthly amount invoiced.
- e. Cumulative amount invoiced to date.
- f. Current monthly and cumulative amounts authorized, and justification for all variances between amounts authorized and incurred or invoiced.
- g. Statement of deliverables for the period.

10.2.3.2 Labor

- a. Dates worked.
- b. Personnel name, work hours and classification.
- c. Personnel Fixed rate.
- d. Description of Work performed by task.
- e. Completion of Appendix "C" of the Statement of Work.

10.2.3.3 Reimbursable expenses (pre-approved by SCE)

- a. Material costs.
- b. Subcontract costs.
- c. Out-of-Pocket expenses.
- d. Travel costs.

10.2.4 Expenses. All reimbursable expenses shall be authorized by SCE in writing prior to the expenditure. Any expenses not so approved by SCE shall not be reimbursed. All expenses shall be charged at cost, without mark-up, and shall be necessary, reasonable and ordinary.

10.2.4.1 Material Costs. Material costs shall be substantiated with an invoice stating the unit price, quantity, and other information as required to identify the Work.

10.2.4.2 Subcontract Costs. Subcontracted Work shall be charged at the rates actually paid by Implementer, not to exceed the rates set forth in the Contract for Work by the Implementer. Implementer shall provide Subcontractor invoices for any Implementer invoice that includes Subcontractor costs.

10.2.4.3 Out-of-Pocket expenses. Miscellaneous costs such as telephone communications, routine copying, electronic mail, facsimiles, computer time and in-house technical software are deemed to be included in Implementer's overhead costs will not be reimbursed.

10.2.4.4 Travel Costs. Approved air travel costs shall in no case exceed economy or coach fare, whichever is reasonably available. Automobile travel from Implementer's office to the Jobsite and to SCE's general offices shall be paid at the fixed mileage rate stated in the Contract, or if not stated, at SCE's rate for SCE employees.

10.2.5 Final Invoice. The final invoice shall be marked "FINAL" and must be received by SCE within sixty (60) calendar days after completion of the Work. SCE shall not be liable for payment of any late invoices that are received by SCE beyond the 60 days.

10.2.6 Invoice Deficiencies. In the event SCE determines that Implementer's (or any of its subcontractors) invoices do not meet the invoicing requirements of the Contract, SCE will notify Implementer of the deficiencies and Implementer shall correct such deficiencies promptly.

10.2.7 Payment by SCE. shall pay each correct invoice, submitted in accordance with the terms of the Contract, within thirty (30) days of SCE's receipt of the correct invoice in SCE's Accounts Payable Division.

10.2.8 Records. Implementer shall maintain, for a period of five (5) years after final payment, complete accounting records (and supporting documentation) of all invoiced costs. SCE reserves the right to audit and copy any applicable documents related to the Work hours, all costs and expenses invoiced, and task completion records. Each invoice shall list the number of the Contract covered by such invoice.

11. COMPLIANCE WITH LAW; PERMITS, STATUTES AND CODES

11.1. The Implementer shall comply with, and shall ensure that the Work shall comply with the applicable requirements of all statutes, acts, ordinances, regulations, codes, and standards of federal, state, local and foreign governments, and all agencies thereof.

11.2. Implementer shall conform to the applicable employment practices requirements of (Presidential) Executive Order 11246 of September 24, 1965, as amended, and applicable regulations promulgated thereunder.

11.3 Implementer Policy for Web Accessibility.

If an Implementer currently hosts and manages a web site, on behalf of SCE, that contains public, customer-facing pages, content and/or transactions that is not already web accessible and compliant with Web Content Accessibility Guidelines version 2.0, Level AA (WCAG 2.0, Level AA), the Implementer must make updates to the web site pages, content and/or transactions to meet web accessibility compliance, unless Implementer is not required by law to comply.

As such, Implementers who plan to or currently host and maintain web sites that include web pages, content and/or transactions for SCE shall agree to the following terms regarding current and/or planned web sites unless Implementer is not required to do so by law:

- 11.3.1 All public facing web pages, transactions and content, including multi-media and interactive content and forms targeted for SCE customers, shall be made web accessible and meet the standards defined in WCAG 2.0, Level AA. Multi-media and interactive content within the scope of these terms include, and are not limited to, image files, video files, audio files, Flash movies and applications, Flex applications, Silverlight applications, functionality developed with AJAX and/or any other interactive technology not otherwise specified but utilized to serve up information and/or transactions on the web.
- 11.3.2 Attachments that are posted on a web page for download must also be made web accessible. Attachments include, and are not limited to, Adobe Acrobat PDF files, Microsoft Office files, or any other type of file intended for a customer to download and review offline. An exception may be allowed only if the content contained within the download is already offered on the web site in a web accessible format, and the downloadable attachment is duplicative to the content or transaction displayed on web pages. Such exceptions must be documented and requested by the Implementer, agreed upon by both Implementer and SCE, and granted by SCE prior to declaring any attachment exempt from web accessibility compliance.
- 11.3.3 Implementers must include compliance with WCAG 2.0, Level AA guidelines as part of the base system requirements for any work completed for SCE. Implementers are responsible for testing proposed web pages, content and/or transactions, and confirming compliance with WCAG 2.0 Level AA guidelines. Proof of testing may be documented in the form of test plans, test scripts, test results, and/or web accessibility audits (performed by the Implementer itself or an external party). SCE may, at any time, request for such documentation to confirm that testing was completed and that the published web page, content and/or transaction satisfies web accessibility compliance with WCAG 2.0, Level AA.

11.3.4 Upon deployment (i.e. publication for external consumption) of web accessible pages, content and/or transactions, Implementer must, to the best of its abilities, maintain compliance with WCAG 2.0, Level AA for as long as the web pages, content and/or transactions are made publicly available on the third-party hosted web site:

11.3.4.1 If Implementer must edit, enhance, modify, or update web pages, content and/or transactions, Implementer agrees to (re-)test for web accessibility compliance, and document test results to prove that said content continues to maintain web accessibility compliance. SCE may, at any time, request for such documentation to confirm that testing was completed and that the published web page, content and/or transaction satisfies web accessibility compliance with WCAG 2.0, Level AA.

11.3.4.2 On a periodic basis, SCE may perform audits on the third-party hosted site to assess web accessibility compliance. Audits may be completed by manual evaluation or through the use of an automated testing tool. If SCE identifies any content that was previously communicated as being compliant but is subsequently found to be in violation, 1) SCE will identify, in writing, the specific web page, content or transaction form where the violation is found, the specific WCAG 2.0, Level AA guideline that has been violated, and what the specific violation is determined to be; 2) Implementer agrees to correct the item(s) in violation on its own accord, with no cost impact to SCE, in a timeframe that both SCE and Implementer agree to, not to exceed 30 calendar days.

11.3.4.3 SCE requires an annual web accessibility audit of SCE's web properties by an independent auditor. Any part or all pages of a third-party hosted web site may be included in the annual audit. If the independent auditor identifies any web page, content or transaction that was previously communicated as being compliant but is subsequently found to be in violation, 1) Auditor will identify, in writing, the specific web page content or transaction form where the violation is found, the specific WCAG 2.0, Level AA guideline that has been violated, and what the specific violation is determined to be; 2) SCE shall provide Implementer with audit report, 3) Implementer agrees to correct the item(s) in violation on its own accord, with no cost impact to SCE, in a timeframe that both SCE and Implementer agree to, not to exceed 30 calendar days.

11.3.5 If an existing third-party hosted web site utilizes a commercial off-the-shelf third-party software package to deliver any type of

functionality that is customer-facing, the Implementer must work with the software manufacturer to determine whether the software produces web-accessible pages, content and/or transactions.

11.3.5.1 If the software manufacturer is unable to provide a product that produces web pages, content and/or transactions that meet WCAG 2.0, Level AA guidelines, the Implementer shall request the software manufacturer to produce such limitations in writing (i.e. in the form of product specifications, formal response from software manufacturer's technical support) and subsequently provide such documentation to SCE.

11.3.5.2 If the software manufacturer is unable to provide a product that produces web pages, content and/or transactions that meet WCAG 2.0, Level AA guidelines, the Implementer agrees to pursue, in good faith, an alternate product that can provide equivalent functionality and satisfy WCAG 2.0, Level AA web accessibility compliance requirements.

11.3.6 If an Implementer plans to utilize a commercial off-the-shelf third-party software package to deliver any type of functionality that is customer-facing for a future web site, the Implementer agrees to pursue, in good faith, a product that can meet the desired business functionality requirements and WCAG 2.0, Level AA web accessibility compliance requirements.

11.3.6.1 If the Implementer is unable to locate a product that meets both business functionality requirements and web accessibility compliance requirements, the Implementer must communicate such limitations, in writing, and justify the software selection choice. Implementer shall also request the software manufacturer of desired product to produce such limitations in writing (i.e. in the form of product specifications, formal response from software manufacturer's technical support) and subsequently provide such documentation to SCE. SCE shall reserve final decision-making authority to approve the usage of such software to deliver desired business functionality.]

12. INDEMNITY/CONSEQUENTIAL DAMAGES

12.1. Indemnity. Implementer shall indemnify, defend and hold harmless SCE, and its respective successors, assigns, affiliates, subsidiaries, current and future parent companies, officers, directors, agents, and employees, from and against any and all expenses, claims, losses, damages, liabilities or actions in respect thereof (including reasonable attorneys' fees) to the extent arising from (a) any act or omission of Implementer, its Subcontractors, or any of their respective employees, officers and agents, relating to this Contract, or (b) Implementer's breach of this

Contract or of any representation or warranty of Implementer contained in this Contract.

12.2. NO CONSEQUENTIAL DAMAGES. NEITHER PARTY SHALL BE LIABLE TO THE OTHER PARTY FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE) OR STRICT LIABILITY INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OF OR UNDER-UTILIZATION OF LABOR OR FACILITIES, LOSS OF REVENUE OR ANTICIPATED PROFITS, COST OF REPLACEMENT POWER OR CLAIMS FROM CUSTOMERS, RESULTING FROM A PARTY'S PERFORMANCE OR NONPERFORMANCE OF THE OBLIGATIONS HEREUNDER, OR IN THE EVENT OF SUSPENSION OF THE WORK OR TERMINATION OF THIS CONTRACT.

13. DEVELOPMENTS/PROPRIETARY RIGHTS

13.1. Ownership. The Parties acknowledge and agree that SCE, on behalf of its customers, shall own all deliverables, data, reports, information, manuals, computer programs, works of authorship, designs or improvements of equipment, tools or processes (collectively "Developments") or other written, recorded, photographic or visual materials, intellectual property, inventions and trade secrets and all deliverables produced in the performance of this Contract, whether proprietary or non-proprietary; provided, however, that Developments do not include equipment or infrastructure purchased for research, development, education or demonstration related to energy efficiency. Although Implementer shall retain no ownership, interest, or title in the Developments except as may otherwise be provided in this Contract, it will have a permanent, royalty free, non-exclusive license to use such Developments.

13.2. Risk of Loss. Implementer shall have risk of loss of or damage to the undelivered Developments until completion of the Work.

13.3. Infringement.

13.3.1. Implementer represents and warrants that the Work performed by Implementer and/or its Subcontractors shall be free of any claim of trade secret, trade mark, trade name, copyright, or patent infringement or other violations of any proprietary rights of any person.

13.3.2. Implementer shall defend, indemnify and hold harmless, SCE, its officers, agents, employees, successors and assigns from and against any and all liability, damages, losses, claims, demands, actions, causes of action, and costs including reasonable attorney's fees and expenses arising out of any claim, demand, or charge that use of the Work or Developments infringe upon any trade secret, trademark, trade name, copyright, patent, or other intellectual property rights.

14. INSURANCE

14.1. Implementer will maintain, and shall require its Subcontractors to maintain, the following insurance coverage or self insurance coverage, at all times during the term of this Contract, with companies having an A.M. Best rating of "A-, VII" or better, or equivalent:

14.1.1. Workers' Compensation: statutory minimum.

14.1.2. Employer's Liability coverage: \$1 million minimum.

14.1.3. Commercial General Liability: \$2 million minimum
per occurrence/\$4 million minimum aggregate.

Such insurances shall acknowledge SCE, its officers, agents and employees as additional insureds, be primary for all purposes, contain standard cross-liability or severability of interest provisions, and waive all rights of subrogation against SCE its officers, agents, employees and other contractors or Subcontractors.

14.1.4. Commercial or Business Auto: \$1 million minimum.

Such insurance shall acknowledge SCE, its officers, agents and employees as additional insureds and be primary for all purposes.

14.1.5. Professional Liability (if applicable): \$1 million minimum.

14.2. Evidence of Insurance. Upon request at any time during the term of this Contract, Implementer shall provide evidence that its insurance policies and the insurance policies of any Subcontractor, as provided in this Section are in full force and effect, and provide the coverage and limits of insurance that Implementer has represented and warranted herein to maintain at all times during the term of this Contract.

14.3. Self-Insurance. If Implementer is self-insured, it shall upon request forward documentation to SCE that demonstrates to SCE's satisfaction that Implementer self-insures as a matter of normal business practice before commencing the Work. SCE will accept reasonable proof of self-insurance comparable to the above requirements.

14.4. Notice of Claims. Implementer shall immediately report to SCE, and promptly thereafter confirm in writing, the occurrence of any injury, loss or damage incurred by Implementer or its Subcontractors or their receipt of notice or knowledge of any claim by a third party of any occurrence that might give rise to such a claim.

14.5. Insurance Indemnification. If Implementer fails to comply with any of the provisions of this Section, "INSURANCE", or any insurance requirements in the Contract, Implementer shall, at its own cost, defend, indemnify, and hold harmless SCE, its affiliates and their officers, directors, agents, employees, assigns, and

successors in interest, from and against any and all liability, damages, losses, claims, demands, actions, causes of action, costs, including attorney's fees and expenses, or any of them, arising out of or in connection with the performance or non-performance of the Work by Implementer or any Subcontractor, or their officers, directors, employees or agents to the extent that SCE would have been protected had Implementer complied with all of the provisions of this Section.

15. CUSTOMER CONFIDENTIALITY REQUIREMENTS

15.1. Non-Disclosure. Implementer, its employees, agents and Subcontractors shall not disclose any Confidential Customer Information (defined below) to any third party during the term of this Contract or after its completion, without Implementer having obtained the prior written consent of SCE, except as provided by law, lawful court order or subpoena and provided Implementer gives SCE advance written notice of such order or subpoena. Notwithstanding any other provisions in the Contract, Implementer's nondisclosure obligations with respect to SCE Confidential Customer Information shall survive any expiration or termination of the Contract in perpetuity.

15.2. Confidential Customer Information. "Confidential Customer Information" includes, but is not limited to, an SCE customer's name, address, telephone number, account number and all billing and usage information, as well as any SCE customer's information that is marked "confidential". If Implementer is uncertain whether any information should be considered Confidential Customer Information, Implementer shall contact SCE prior to disclosing the customer information.

15.3. Non-Disclosure Agreement. Prior to any approved disclosure of Confidential Customer Information, SCE may require Implementer to enter into a nondisclosure agreement.

15.4. Commission Proceedings. This provision does not prohibit Implementer from disclosing non-confidential information concerning the Work to the Commission in any Commission proceeding, or any Commission-sanctioned meeting or proceeding or other public forum.

15.5. Return of Confidential Information. Confidential Customer Information (including all copies, backups and abstracts thereof) provided to Implementer by SCE, and any and all documents and materials containing such Confidential Customer Information or produced by Implementer based on such Confidential Customer Information (including all copies, backups and abstracts thereof), during the performance of this Contract shall be returned upon written request by SCE.

15.6. Remedies. The Parties acknowledge that Confidential Customer Information is valuable and unique, and that damages would be an inadequate remedy for breach of this Section 15 and the obligations of the Parties are specifically enforceable. Accordingly, the Parties agree that in the event of a breach or threatened breach of this Section 15 by Implementer, SCE shall be entitled to seek and obtain an injunction preventing such breach, without the necessity of proving

damages or posting any bond. Any such relief shall be in addition to, and not in lieu of, money damages or any other available legal or equitable remedy.

16. SECURITY INCIDENT PROVISIONS

16.1. SCE Personal Information.

16.1.1. Definition. SCE Personal Information is defined as any information in the possession or under the control of SCE or any of its affiliates, or that is furnished or made available by SCE or any of its affiliates to Implementer, that identifies, relates to, describes, or is capable of being associated with, any particular individual (whether SCE employee, customer, or otherwise), including, but not limited to, his or her name, signature, social security number, physical characteristics or description, address, telephone number, passport number, driver's license or state identification card number, insurance policy number, medical information or health insurance information, education, employment, employment history, bank account number, credit card number, debit card number, or any other financial information.

16.2. Nondisclosure of SCE Personal Information. Implementer, its employees, agents and Subcontractors shall not disclose any SCE Personal Information (defined above) to any third party during the term of this Contract or after its completion, without Implementer having obtained the prior written consent of SCE, except as provided by law, lawful court order or subpoena and provided Implementer gives SCE advance written notice of such order or subpoena.

16.2.1. Notwithstanding any other provision in the Contract or Contract, Implementer's nondisclosure obligations with respect to SCE Personal Information shall survive any expiration or termination of the Contract in perpetuity. Upon the expiration or termination of the Contract, or at any time upon request of SCE, all SCE Personal Information in any medium, including all copies or parts thereof, shall be returned to SCE or destroyed, except that Implementer may retain one copy of any materials prepared by Implementer containing or reflecting SCE Personal Information if necessary for compliance with its internal record-keeping or quality assurance requirements only. If destroyed, such destruction shall be certified in writing by Implementer.

16.3. Security Incidents. This section shall apply only to the extent Implementer is in possession or control of SCE Personal Information or SCE Confidential Customer Information.

16.2.1 Security Incident Response Plan. Implementer shall develop, implement and maintain a written plan and process for preventing, detecting, identifying, reporting, tracking and remediating Security Incidents ("Security Incident Response Plan" or "SIRP"). A Security Incident

shall mean an event or set of circumstances that result in a reasonable expectation of a compromise of the security, confidentiality or integrity of SCE data or information under the Implementer's control. Examples of Security Incidents include are but not limited to:

- (i) Security breaches to Implementer's network perimeter or to internal applications resulting in potential compromise of SCE data or information.
- (ii) Loss of physical devices or media, e.g., laptops, portable media, paper files, etc., containing SCE data.
- (iii) Lapses in, or degradation of, Implementer's security controls, methods, processes or procedures.
- (iv) The unauthorized disclosure of SCE data or information.
- (v) Any and all incidents adversely affecting SCE's or its affiliates', as the case may be, information assets.

16.2.2 SIRP General Requirements. Implementer's SIRP will include Security Incident handling and response procedures, specific contacts in an event of a Security Incident, the contacts' roles and responsibilities, and their plans to notify SCE or its affiliates, as the case may be, concerning the Security Incident. The SIRP must be based on and meet all requirements of the following:

16.2.2.1 U.S. federal and applicable state laws, statutes and regulations concerning the custody, care and integrity of data and information. In particular and without limitation, Implementer shall ensure that its SIRP and its business practices in performing work on behalf of SCE comply with California's Information Practices Act of 1977, California Civil Code §§ 1798.80 *et seq.*, which addresses among other things the provision of notice to SCE or its affiliates, as the case may be, of any breach of the security of SCE Personal Information if it is reasonably believed to have been acquired by an unauthorized person.

16.2.2.2 SCE information management and information security policies and procedures as made available to Implementer from time to time ("SCE Policies and Procedures"), including without limitation ITS-445 "Standards for Information Security Response – Third Parties."

16.2.3 Implementer Response to Security Incident. The following will apply in the event of a Security Incident:

16.2.3.1 Implementer will submit a Security Incident Report (SIR) to SCE's or its affiliates', as the case may be, IT Help Desk or IT Operations Center ("ITOC") in accordance with

SCE Policies and Procedures including ITS-445, and applicable law. The SIR shall be given promptly upon discovery of an SI and in any event not more than four (4) hours after discovery of a suspected SI, or sooner if required by law, statute or regulation. If additional time is required under the circumstances of the SI to ascertain the nature or extent of the SI, to stabilize the Computing System or to ensure the integrity of SCE's or its affiliates', as the case may be, data and information, then Implementer shall promptly notify SCE or its affiliates, as the case may be, in writing of the existence of an SI initially, and keep SCE or its affiliates, as the case may be, informed of developments and new information.

16.2.3.2 At SCE's or its affiliates', as the case may be, request, Implementer will meet with SCE or its affiliates, as the case may be, to discuss the cause of the Security Incident, Implementer's response, lessons learned and potential improvements to Implementer's system security processes and procedures.

16.2.4 Compromise of SCE Personal Information.

16.2.4.1 Additional SIRP Requirements for Personal Information. With respect to any SCE Personal Information in the possession or under the control of Implementer, to protect SCE Personal Information from unauthorized access, destruction, use, modification or disclosure, Implementer shall:

(a) Develop, implement and maintain reasonable security procedures and practices appropriate to the nature of the information to protect SCE Personal Information from unauthorized access, destruction, use, modification, or disclosure.

(b) Develop, implement and maintain data privacy and security programs with administrative, technical, and physical safeguards appropriate to the size and complexity of the Implementer's business and the nature and scope of Implementer's activities to protect SCE Personal Information from unauthorized access, destruction, use, modification, or disclosure.

16.2.4.2 Notice Requirements for Personal Information. In the event of a Security Incident where SCE Personal Information was, or is reasonably believed to have been, acquired by an unauthorized person, Implementer shall immediately provide the SIR required by Section 16.2.3. Such SIR shall state that SCE Personal Information

may be involved, and shall describe the suspected nature of such SCE Personal Information.

16.2.5 SIRP Review. At SCE's or its affiliates', as the case may be, request, Implementer shall review the SIRP at least annually with SCE's or its affiliates', as the case may be, designated representatives to identify updates, changes or potential improvements; and a process to document these changes within ninety (90) days of any such changes.

16.2.6 Document Retention. Implementer shall maintain all documentation relating to Security Incidents, whether in written or electronic form, including without limitation, their identification, processing and resolution, for two (2) years after final resolution of the Security Incident, including the final resolution of all claims arising out of the Security Incident.

16.2.7 Indemnification for Security Incidents. Implementer shall, at its own cost, defend, indemnify and hold harmless SCE, its affiliates, officers, agents, employees, assigns and successors in interest, from and against any and all liability, damages, losses, claims, demands, actions, causes of action, costs, including attorney's fees and expense, fines or penalties, or any of them, resulting from any Security Incident. Any limitation of liability that may be in the Contract or Contract shall not apply to this Section 16.2.7.

16.3 Implementer shall ensure that its employees, agents and contractors that perform services for Provider in connection with the Contract are informed of and comply with these Security Incident provisions.

17. CONFLICT OF INTEREST

Implementer affirms that, to the best of its knowledge, there is no actual or potential conflict of interest between Implementer, its employees or their families, Subcontractors, or business interests, and SCE. Implementer shall not hire any SCE employee or employee's spouse to perform any part of the Work. Implementer further affirms that it has set forth in its proposal for the Work: (i) all situations in which Implementer or an affiliated entity of Implementer has been or currently is an SCE Implementer, contractor, or employee; (ii) all situations in which Implementer or an affiliated entity of Implementer has been or currently is in a joint venture arrangement or licensing relationship with SCE (other than an Energy Leader Partnership); and (iii) any affiliated entity to which Implementer intends to subcontract any part of the Work. Implementer shall update such affirmations to SCE during performance of the Work within thirty (30) days following any change thereto.

18. TIME IS OF THE ESSENCE

Implementer hereby acknowledges that time is of the essence in performing their obligations under this Contract. Failure to comply with milestones and goals stated in this Contract, including but not limited to those set forth in Exhibit A of this Contract, may constitute a material breach of this Contract, resulting in its termination, payments being

withheld, Implementer Budgets being reduced or adjusted, funding redirected by SCE to other programs or partners, or other Program modifications as determined by SCE or as directed by the Commission. All Work must be performed and completed by October 15, 2014.

19. IMPLEMENTER DISPUTES

Any unresolved disputes between Implementer and SCE shall be referred to an SCE management representative and an officer of Implementer for resolution. Pending resolution, Implementer shall continue to perform the Work as directed by the SCE Representative, and SCE shall continue to make payments for the undisputed items.

20. RIGHT TO AUDIT

SCE and the Commission shall have the right to audit Implementer at any time during the term of this Contract and for five (5) years thereafter. An audit may include, but is not limited to, a review of Implementer's financial records relating to the Work, program implementation procedures, program marketing material, program implementation documents, field audits of Implementer employees or Subcontractors, energy efficiency savings provided by the program, funds spent to date, information relating to the substantiation of program expenditures, incentives paid to date, customers given incentives to date, lists of employees and respective duties, lists of Subcontractors and their respective responsibilities or service provided.

SCE may, in its sole discretion and at anytime, request information or data relating to the program, Work or this Contract, and Implementer shall provide such information in the format and within the time requested by SCE. Nothing in this provision shall limit the type, format or frequency of such requests by SCE.

21. MODIFICATIONS

Except as otherwise provided in this Contract, changes to this Contract shall be only be valid through a written amendment/Change Order to this Contract signed by both Parties.

22. TERM

This Contract shall be effective as of the Effective Date. Unless otherwise terminated in accordance with the provisions of Section 23 below, this Contract shall terminate at midnight November 31, 2014; provided however, that all Work and services shall be completed by the dates specified in the Statement of Work.

23. TERMINATION OR CANCELLATION

23.1. CPUC Authority To Modify: The Work and program under which the Work is authorized herein shall at all times be subject to the discretion of the California Public Utilities Commission (CPUC), including, but not limited to, review and modifications, excusing performance hereunder, or termination as the CPUC may direct from time to time in the reasonable exercise of its jurisdiction.

23.2. Termination for Convenience: Notwithstanding any other provisions of the Contract, SCE shall have the unilateral right to terminate the Work, or any portion thereof, or the Contract by the issuance of a Change Order, which shall not require Implementer's acceptance.

Subject to the provisions of Section 23.3 and 23.4 hereof, SCE shall pay Implementer the termination charges set forth in the Contract pro-rated to the effective date of termination. If termination charges are not set forth in the Contract, SCE shall complete the payments for all Work accepted by SCE. SCE, at its option, may take possession of any Material paid for by SCE. The provisions of this Section 23.2 shall be Implementer's sole remedy resulting from such termination.

23.3. Cancellation for Default. In the event of: (i) the breach of or failure of Implementer to perform any of its material obligations under the Contract including, but not limited to, failure to complete the Work on time or failure to make satisfactory progress or persistent failure to pay labor and material claims; (ii) the failure of Implementer to give SCE adequate assurance of performance within ten working days after written demand by SCE therefore when reasonable grounds for insecurity arise; or (iii) the insolvency, bankruptcy or receivership of Implementer, then SCE may (a) withhold payment of any further monies which may be due Implementer until such condition is cured, and/or (b) declare Implementer to be in default of the Contract and notify Implementer in writing of such declaration and shall be entitled to cancel the Contract in whole or in part effective immediately upon written notice thereof. Any cancellation pursuant to this Section 23.3 shall not be deemed a "termination" for the purposes of Section 23.2 hereof.

In the event of such cancellation, Implementer shall immediately stop Work and surrender to SCE's possession, complete and incomplete Documentation and other Information, Material, control and use of the Jobsite and all Implementer and SCE-owned equipment, facilities, and all other items which SCE may deem necessary or appropriate until the Work is completed. Implementer shall assign to SCE the outstanding subcontracts and Contracts as requested by the SCE Representative for such completion. SCE shall have the right to provide, or contract for, all additional labor, Material, and any other items which it may deem necessary to complete the Work.

If the total of all expenses incurred by SCE to complete the Work is greater than the sum which would have been payable under the Contract if Implementer had completed the Work, the difference shall constitute a claim against Implementer. Such claim shall be due and payable within ten working days after presentation of

the claim. Additionally, SCE shall have the right to pursue other remedies afforded by law.

23.4 Delivery of Materials: Without limiting the effect of the provisions of Sections 15 and 23.3 hereof, upon receipt of notice of termination or cancellation under this Section 23, Implementer shall immediately deliver to SCE all complete and incomplete Documentation, and all Material. If, at the time of termination or cancellation further sums are due Implementer, Implementer shall not be entitled to the sums until all Documentation and all Material required to be delivered to SCE are delivered.

23.5 Cessation of Work: Upon receipt of notice of termination or cancellation for any reason, Implementer shall promptly cease all Work except for additional Work that SCE may, in its discretion, request Implementer to perform. Additional Work shall be performed in compliance with the terms of the Contract.

24. WRITTEN NOTICES

Any written notice, demand or request required or authorized in connection with this Contract, shall be deemed properly given if delivered in person or sent by facsimile, nationally recognized overnight courier, or first class mail, postage prepaid, to the address specified below, or to another address specified in writing by a Party as follows:

Implementer:
City of Moreno Valley
Chris Ormsby
14177 Frederick Street
Moreno Valley, CA 92553

SCE:
Southern California Edison
Scot Mann
6042A N. Irwindale Ave,
Irwindale, CA 91702

Notices shall be deemed received (a) if personally or hand-delivered, upon the date of delivery to the address of the person to receive such notice if delivered before 5:00 p.m., or otherwise on the Business Day following personal delivery; (b) if mailed, three (3) Business Days after the date the notice is postmarked; (c) if by facsimile, upon electronic confirmation of transmission, followed by telephone notification of transmission by the noticing Party; or (d) if by overnight courier, on the Business Day following delivery to the overnight courier within the time limits set by that courier for next-day delivery.

25. INDEPENDENT CONTRACTOR

Implementer is and will perform the work as an independent contractor for SCE. Nothing in this Contract shall be construed so as to render Implementer an employee, agent, representative, joint venturer or partner of SCE for purposes of carrying out this Contract. Implementer shall not enter into any contracts, agreements or other obligations with any other parties which bind, or are intended to bind, SCE without first receiving express written authorization from SCE. SCE and Implementer shall each maintain sole and exclusive control over its respective personnel and operations.

26. BENEFIT TO SCE CUSTOMERS

Ratepayer funded programs must directly benefit customers in the service territory from which the funds are collected. The energy efficiency program implemented pursuant to this Purchase Order is funded in whole or in part by funds collected from SCE's customers for public purpose programs, and therefore must directly benefit SCE's customers. Procurement Energy Efficiency Funds are defined as those certain funds collected from electric utility ratepayers pursuant to Section 381 of the California Public Utilities Code for public purpose programs, including energy efficiency programs approved by the CPUC.

27. ENVIRONMENTAL, HEALTH & SAFETY REQUIREMENTS

The "Southern California Edison ENVIRONMENTAL, HEALTH & SAFETY HANDBOOK FOR CONTRACTORS", dated January 10, 2010, is hereby incorporated by reference into this Contract. Implementer shall immediately notify the SCE Representative if Implementer is unable to meet ANY of the requirements set forth therein. SCE may cancel this Contract if Implementer fails to meet the requirements set forth in this Handbook. Such cancellation shall not be deemed a termination under the termination provisions of this Contract.

28. NON-DISCRIMINATION CLAUSE

No Party shall unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status, and denial of family care leave. Each Party shall ensure that the evaluation and treatment of its employees and applicants for employment are free from such discrimination and harassment, and shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12990 (a)-(f) et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 (a)-(f), set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Contract by reference and made a part hereof as if set forth in full.

Each Party represents and warrants that it shall include the substance of the nondiscrimination and compliance provisions of this clause in all subcontracts for its Work obligations.

29. NON-DISCRIMINATION CLAUSE

None of the provisions of this Contract shall be considered waived by either Party unless such waiver is specifically stated in writing.

30. ASSIGNMENT

No Party shall assign this Contract or any part or interest thereof, without the prior written consent of the other Party, and any assignment without such consent shall be void and of no effect. Notwithstanding the foregoing, if SCE is requested or required by the Commission to assign its rights and/or delegate its duties hereunder, in whole or in part, such assignment or delegation shall not require Implementer's consent and SCE shall be released from all obligations hereunder arising after the effective date of such assignment, both as principal and as surety.

31. SEVERABILITY

In the event that any of the terms, covenants or conditions of this Contract, or the application of any such term, covenant or condition, shall be held invalid as to any person or circumstance by any court, regulatory agency, or other regulatory body having jurisdiction, all other terms, covenants, or conditions of this Contract and their application shall not be affected thereby, but shall remain in full force and effect, unless a court, regulatory agency, or other regulatory body holds that the provisions are not separable from all other provisions of this Contract.

32. GOVERNING LAW; VENUE

This Contract shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

33. SECTION HEADINGS

Section headings appearing in this Contract are for convenience only and shall not be construed as interpretations of text.

34. SURVIVAL

Notwithstanding completion or termination of this Contract, the Parties shall continue to be bound by the provisions of this Contract which by their nature survive such completion or termination.

35. ATTORNEYS' FEES

Except as otherwise provided herein, in the event of any legal action or other proceeding between the Parties arising out of this Contract or the transactions contemplated herein, each Party in such legal action or proceeding shall bear its own costs and expenses incurred therein, including reasonable attorneys' fees.

36. PRIOR WORK.

In the event that Implementer performs any Work authorized by SCE but prior to the execution of this Contract, then such prior Work shall be considered performed subject to the provisions of this Contract.

37. ENTIRE AGREEMENT

This Contract (including all of the Exhibits and attachments hereto which are incorporated into this Contract by reference) contains the entire agreement and understanding between the Parties with respect to the Program and merges and supersedes all prior agreements, representations and discussions pertaining to the subject matter of this Contract.

38. COUNTERPARTS.

This Contract may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall be deemed to be one and the same instrument.

[SIGNATURE PAGE FOLLOWS]:

SIGNATURE PAGE

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be executed by their duly authorized representatives.

IMPLEMENTER:

CITY OF MORENO VALLEY

By:
Title:

SCE:

SOUTHERN CALIFORNIA EDISON

By: Erwin Furukawa
Title: Senior Vice President,
Customer Service

EXHIBIT A

STATEMENT OF WORK (with Appendices A-C)

This page intentionally left blank.

TABLE OF CONTENTS

LIST OF TABLES..... 1

APPENDICES..... 1

REVISION SUMMARY PAGE 1

SECTION 1 – DESCRIPTION..... 2

SECTION 2 – GENERAL REQUIREMENTS 3

SECTION 3 – SCOPE OF WORK 3

 Task 1: Program Ramp-Up..... 4

 Task 2: Redesign Forms: Enforcement Compliance, Plan Review Processes (SP Task 2.1.2) 4

 Task 3: LEED Standards for New Municipal Facilities (SP Task 3.2.2) 6

 Task 4: Update the Implementer's General Plan With a Discussion of Energy Efficiency (SP Task 4.1.3)..... 9

 Task 5: Municipal Code Amendment to Provide Residential Density Bonuses for Energy Efficient Projects (SP Task 1.1.5)..... 11

 Task 6: Invoicing and Reporting 14

 Task 7: Ramp-Down and Shut-Down Program..... 15

 Task 8: Submit Final Program Report..... 15

SECTION 4 – PAYMENT 16

LIST OF TABLES

Table 1: Fully Burdened Hourly Rates by Title 16

Table 2: Implementer’s Budget (Task 2)..... 17

Table 3: Implementer's Budget (Task 3)..... 17

Table 4: Implementer's Budget (Task 4)..... 17

Table 5: Implementer's Budget (Task 5)..... 18

Table 6. Strategic Plan Support Menu 23

APPENDICES

Appendix A: Invoicing Requirements 19

Appendix B: Defined Terms..... 21

Appendix C: Strategic Plan Support Menu..... 23

Appendix D: Regulatory Reporting Requirements..... 25

Appendix E: Final Program Report Template 30

Energy Efficiency Division

Statement of Work

Revision Summary Page

Program Name: City of Moreno Valley Strategic Plan Strategies Phase 3

Implementer: City of Moreno Valley

[No Revisions at This Time]

Summary:

N/A

ATTACHMENT 2– STATEMENT OF WORK

Program Name: City of Moreno Valley Strategic Plan Strategies Phase 3

Implementer: City of Moreno Valley (“City”)

Program Budget: \$100,920.00

SECTION 1 – DESCRIPTION

Pursuant to Decision (D).09-09-047, the California Public Utilities Commission (CPUC or Commission) authorized Southern California Edison Company (SCE) to conduct strategic plan activities (the Strategic Plan Program) centered on Energy Efficiency (sometimes referred to as EE) and addressing the "Big, Bold" strategies and related local government goals found in the CPUC's California's Long-Term Energy Efficiency Strategic Plan (CEESP).¹ Based on this authorization, SCE conducted a solicitation seeking activities to fund that would lead to long-term, sustainable changes as opposed to supporting staffing resources or short-term initiatives that would cease to exist once the funding had ended.

A. Defined Terms

Capitalized terms not otherwise defined in the text of this Statement of Work (SOW) are defined in Appendix B, “Defined Terms,” attached hereto and incorporated by reference. Capitalized terms not otherwise defined in the text of this SOW or in Appendix B hereto shall have the meaning ascribed to them in SCE’s General Terms and Conditions (Ts&Cs) for both EE and Demand Response (DR), attached to the Contract and incorporated herein by reference.

B. Background

SCE initiated both Phases 1 and 2 of the local government EE strategic plan support solicitation during 2010, and these two phases are currently being implemented. Funding for Phase 3 solicitation for 2013-2014 was approved in CPUC D.12-11-015, issued on November 15, 2012.

The ultimate goal for each participating city or county government, or a regional government, representing one or more local jurisdictions that are currently participating in SCE’s Local Government or Institutional Partnerships (Implementer) in relationship to

¹ Visit www.californiaenergyefficiency.com for a copy of the CEESP.

CEESP support, is to embed and institutionalize EE in its policies, programs, and processes and to establish a culture of EE within the Implementer's jurisdiction.

C. Objective

Through the Program, the Implementer will deliver items listed in Table 6 of Appendix C (Strategic Plan "Support Menu") of this SOW, to develop and implement local government strategic plan support strategies during the years 2013-2014 timeframe.

SECTION 2 – GENERAL REQUIREMENTS

A. Notice to Proceed (NTP)

Implementer may start Work only upon the occurrence of each of the following:

1. Implementer receives a Contract, including "this SOW" from Contract Program Manager (CPM);
2. Implementer provides to the CPM a signed Contract; and
3. CPM provides to Implementer written notice to proceed with the Work (NTP).

B. License

Within 10 Business Days of the CPM issuing the NTP, the Implementer and each of its sub-contractors will submit copies of any and all licenses and/or registrations required for the performance of the proposed Work to the CPM.

C. Goals

Implementer must achieve delivery of project milestones and dates as outlined and agreed to by the CPM. The CPM will review the number of projects, tasks, and deliverables completed to assess Work progress.

D. Coordination with the CPM

Implementer must achieve delivery of Work milestones and dates. The CPM will review the SOW requirements, including tasks and deliverables completed, to assess Work progress.

SECTION 3 – SCOPE OF WORK

The Work will consist of the following tasks supporting the CEESP goals specifically set forth by SCE and accepted by Implementer:

Task 1: Program Ramp-Up

A. Attend Program Kick-off Meeting

Implementer's representative(s) will attend a Program kick-off meeting with the CPM to discuss Program logistics, evaluation, monitoring and verification coordination, invoicing requirements, SOW, and any remaining Contract issues at a time and location designated by SCE.

To avoid duplication and unnecessary expenditures, the CPM will provide information and guidance regarding currently available resources (e.g., available training programs, templates, etc.) that will be used by the Implementer in assessing pre-existing resources. This will enable the Implementer to focus efforts on the areas in each task where gaps exist.

B. Program Data, Invoicing, and Reporting Tool Training

The Implementer will attend the kick-off meeting to be trained on the use of SCE's invoicing and reporting tool (IR Tool). Thereafter, the Implementer will use the IR Tool to provide the CPM invoices and Monthly Reports each Month.

Deliverables:

Task 1 – Deliverable(s)	Due Date(s)
1. Attend a Program Kick-off meeting that includes IR Tool training.	Determined by SCE after the issuance of the NTP.
2. Delivery of updated IR Tool to CPM for review and approval.	IR Tool training plus five (5) Business Days.

Task 2: Redesign Forms: Enforcement Compliance, Plan Review Processes (SP Task 2.1.2)

The Implementer will redesign forms and hand-outs, and create hand-out(s) pertaining to CalGreen and the incorporation of EE into construction projects within the City. These forms will help developers and homeowners by providing information early in the process, and will reflect the updated changes to Title 24 and CalGreen through the end of 2013.

Through this task the City will evaluate the processes of other cities, including information, forms, and processes on processing permits and plans for CalGreen compliance. Forms and handouts will be developed based on this evaluation.

A. Task Goals and Objectives

The Implementer will fulfill the following goals and objectives:

- Increase code compliance; and
- Encourage “reach” projects through the cross-marketing of energy efficient measures that are eligible for utility incentives.

Implementer will provide all materials developed under this task to CPM for review and comment:

1. **Report on Status of Implementer or Subcontractor to Support the Task:**
Implementer will submit monthly reports on the status of hiring expertise to integrate energy efficiency opportunities into the existing permitting processes, and development of materials.
2. **Assessment and Planning Report Form Redesign (Draft and Final):** In preparation for the form and hand-out redesign, Implementer will research and examine the forms used by other cities, including information, forms and processes on processing permits and plans for CalGreen compliance of other local governments to gain insight from their experiences. From this review the Implementer will determine its strategy for re-designing its forms, etc., including:
 - Forms Retained Without Modification
 - Forms Revised
 - Forms Eliminated
 - Forms Added
 - Fact or Information Sheets Added
3. **Development of Forms and Hand-outs (Draft and Final):** The Implementer will redesign designated forms and hand-outs, and create hand-out(s) pertaining to CalGreen and the incorporation of EE into construction projects. These forms will help developers and homeowners by providing information early in the process. These forms will reflect all changes to Title 24 and CalGreen through the end of 2013. Final forms will be made available at the counter and on the City’s website.
4. **Best Practices and Lessons Learned Report:** Implementer will prepare a draft report describing lessons learned and its understanding of best practices experienced during the development and implementation of the compliance policies. Implementer will also submit a draft Plan for sharing this report with other local governments.

Based on feedback received during the draft review, Implementer will take steps to assure that the final version of the Plan will meet the needs of the City and local governments.

5. **Monthly Status Report:** Implementer will provide a Monthly Report of all on-going activities including a list of Monthly achievements and outstanding issues.

B. Task Performance Indicators

The Implementer shall report on the following in Monthly Status Reports:

1. Number of forms that have been completed in the following categories:
 - a. Forms Retained Without Modification
 - b. Forms Revised
 - c. Forms Eliminated
 - d. Forms Added
 - e. Fact or Information Sheets Added

Deliverables:

Task 3 Deliverable(s)	Due Date(s)
1. Report on Status of Implementer or Subcontractor to Support the Task	NTP plus 1 Month.
2. Draft Assessment and Planning Report Form Redesign	NTP plus 5 Months.
3. Final Assessment and Planning Report Form Redesign	NTP plus 6 Months.
4. Draft Forms and Handouts	NTP plus 9 Months.
5. Final Forms and Handouts	NTP plus 11 Months.
6. Best Practices and Lessons Learned Report	NTP plus 13 Months.
7. Monthly Status Report	Monthly with Invoicing Requirements

Task 3: LEED Standards for New Municipal Facilities (SP Task 3.2.2)

The City will prepare and adopt a policy requiring new city buildings to be designed consistent with more efficient standards than currently required. As part of the task, the City will:

- Implement a measure that is included in the City’s Energy Action Plan and Climate Action Strategy.
- Develop a standard that requires new City buildings to meet LEED standards without actually being LEED-certified. Since LEED-certification is costly, this standard would result in buildings that are more energy efficient than simply meeting code while avoiding the cost of LEED-certification.
- Review similar standards established by other local governments to leverage their efforts.

A. Task Goals and Objectives

Implementer will provide all materials developed under this task to CPM for review and comment:

1. **Report on Status of Consultant or Subcontractor to Support the Task:**
Implementer will submit a report on the status of hiring the necessary expertise to develop and adopt a policy to require LEED Standards for municipal facilities.
2. **Assessment and Planning Report To Develop LEED Standards for New Municipal Facilities (Draft and Final):** To facilitate development of a policy to require LEED Standards for municipal facilities, Implementer will assess existing Program standards for municipal facilities. Based on this assessment, Implementer will prepare a plan for developing a policy that requires municipal facilities to meet LEED Standards. Through this task the Implementer will establish a specific policy addressing energy efficiency in municipal buildings. The plan will describe the process the Implementer will use to develop this standard.
3. **Draft LEED Standards for New Municipal Buildings:** Implementer will prepare a draft policy requiring municipal facilities to meet LEED Standards.

The policy will include description of building characteristics that would be covered by the policy (for example: minimum building size, building age and maximum number of occupants). The policy will also outline the financial impact to implement the LEED policy, and describe how the LEED policy will be implemented.

Implementer will submit the draft policy to the CPM and relevant stakeholders for review and comment.

4. **Final LEED Standards for New Municipal Buildings:** Based on feedback received from the CPM and stakeholders, Implementer will prepare a final policy requiring municipal facilities to meet LEED Standards for presentation to the City Council for review and approval.

5. **Submit LEED Standards for New Municipal Buildings to City Council for adoption:** Implementer will submit the final policy to City Council for review and adoption. If adopted, Implementer will provide documentation to the CPM that the standard was adopted, as well as the date the policy will be effective. If the policy is not adopted, Implementer will report the reasons for the rejection and alternative plans to be considered to accomplish adoption of the policy.
6. **Monthly Status Report:** Implementer will provide a monthly report of all on-going activities including a list of monthly achievements and outstanding issues.

B. Task Performance Indicators

The Implementer will, at a minimum, track the following through the IR Tool:

1. Baseline energy production/consumption for projects with LEED standards and for the same project without the adopted LEED standards.

The rationale and benefits of the proposed scope of work include the following:

1. Consensus-based solutions to minimize activities contributing to energy use and related emissions, and promote energy efficiency throughout the County.
2. Detailed programs, policies, and implementation measures to achieve the solutions identified.

Deliverables:

Task 4 Deliverable(s)	Due Date(s)
1. Report on Status of hiring Consultant or Subcontractor to Support the Task	NTP plus 1 Month.
2. Assessment and Planning Report for the Development of LEED Standards for New Municipal Facilities	NTP plus 5 Months.
3. Draft LEED Standards for New Municipal Facilities	NTP plus 8 Months.
4. Final LEED Standards for New Municipal Facilities	NTP plus 11 Months.
5. Policy submitted to City Council for adoption; if adopted, provide written policy and evidence the policy was adopted by the local government; effective date of plan; if rejected, reasons for rejection and alternative plans.	NTP plus 12 Months.

6. Monthly Status Reports	Monthly with Invoicing Requirements
---------------------------	-------------------------------------

Task 4: Update the Implementer's General Plan With a Discussion of Energy Efficiency (SP Task 4.1.3)

The Implementer will update the conservation element of its General Plan to include a detailed discussion of energy efficiency. The updated General Plan will provide an overview of the larger context of energy efficiency policy, and the City's recently approved Climate Action Strategy and Greenhouse Gas Analysis. The final General Plan document will provide useful information that can be integrated into the planning efforts for use by the general public, private developers, and city staff or other governmental entities.

This task will involve research and analysis to develop appropriate General Plan text, input from stakeholders, and public hearings on the General Plan Amendment. The Implementer will:

- Research and examine how other cities have integrated energy policy into their General Plans.
- Evaluate the City's current General Plan-Conservation Element to identify the most effective means of integrating the modified text which will focus on energy efficiency policy.
- Conduct public outreach, including at least one public meeting.
- Prepare draft text for the General Plan update.
- Prepare staff reports for Planning Commission and City Council.
- Provide information to decision-makers as needed.
- Upon approval by the City Council, coordinate with Media Services to update the General Plan on the City's website, and coordinate web links between the City's General Plan document, and the City's other energy policy documents (e.g., Climate Action Strategy), and/or the City's green webpage ("G.R.E.E.N. MoVal").

A. Task Goals and Objectives

Implementer will provide all materials developed under this task to CPM for review and comment:

1. **Report on Status of Consultant or Subcontractor to Support the Task:**
Implementer will submit a monthly report on the status of hiring expertise to accomplish the Task.

2. **Assessment and Planning Report for Updating the General Plan With a Discussion of Energy Efficiency (Draft and Final):** In preparation for an appropriate update to the General Plan, Implementer will research and examine how other local governments integrated energy efficiency policy in their General Plans to gain insight from their experiences. Thereafter, the implementer will review and assess its current General Plan-Conservation Element to identify the most effective means of integrating the modified text which will focus on energy efficiency policy. The Implementer will provide a Report detailing the findings.

Based on feedback received during the draft review, the Implementer will submit a final draft of the Assessment and Planning Report.

3. **Conduct and Report on Public Review:** Implementer shall conduct as least one public meeting. Implementer shall include list of meeting(s)/workshop(s) conducted, list of issues discussed, resolutions and accords reached, and list(s) of attendees.

4. **Updated General Plan with a Discussion of Energy Efficiency (Draft and Final):** Implementer will update the Conservation Element of its General Plan for the purpose of including an updated and detailed discussion of energy efficiency in the General Plan. The updated General Plan will provide an overview of the larger context of energy efficiency policy, and the Implementer's recently approved Climate Action Strategy and Greenhouse Gas Analysis. The final General Plan document will provide useful information that can be integrated into the planning efforts for use by the general public, private developers, and City staff or other governmental entities.

5. **Submit Updated General Plan Language to City Council for Adoption:** If the updated language is adopted, Implementer shall submit documentation of the adoption, including the date the policy becomes effective, to the CPM. If policy is rejected, Implementer shall submit memo report on reasons for rejection and its consideration of alternate plans for achieving amendment of the General Plan language consistent with the intent of this task.

6. **Report on Dissemination of Lessons Learned/Best Practices to Other Municipalities:** Upon approval by the City Council, Implementer will coordinate with Media Services to update the General Plan on the City's website, and coordinate web links between the City's General Plan document, and the City's other energy policy documents (eg. Climate Action Strategy), and/or the City's green webpage ("G.R.E.E.N. MoVal").

7. **Monthly Status Reports:** Implementer will provide a monthly report of all on-going activities including list of monthly achievements and outstanding issues;

B. Task Performance Indicators

The Implementer will, at a minimum, track the following through the IR Tool:

1. Number and type of public workshops conducted; and
2. Number of participants at each public workshop conducted.

Deliverables:

Task 5 - Deliverable(s)	Due Date(s)
1. Report on Status of Consultant or Subcontractor to Support the Task	NTP plus 1 Month.
2. Draft Assessment and Planning Report for Updating the General Plan With a Discussion of Energy Efficiency	NTP plus 5 Months.
3. Final Assessment and Planning Report for Updating the General Plan With a Discussion of Energy Efficiency	NTP plus 6 Months.
4. Draft General Plan Update with EE Discussion	NTP plus 7 Months.
5. Conduct and Report on Public Review	NTP plus 8 Months.
6. Final General Plan Update with EE Discussion	NTP plus 8 Months.
7. 7.8. Submit Updated General Plan to Planning Commission for Adoption	NTP plus 9 Months.
8. Submit Updated General Plan to City Council for Adoption	NTP plus 11 Months.
9. Report on Dissemination of Lessons Learned/Best Practices to Other Municipalities	NTP plus 13 Months.
10. Monthly Status Reports	Monthly with Invoicing Requirements

Task 5: Municipal Code Amendment to Provide Residential Density Bonuses for Energy Efficient Projects (SP Task 1.1.5)

A. Task Goals and Objectives

Through this task the City will develop a municipal code amendment to establish “density bonuses” for new residential developments that exceed Title 24 building code criteria, and to allow and encourage integration of Energy Efficiency (EE) into building design. The Implementer will develop a draft ordinance that would provide density bonuses for projects that incorporate specific criteria into their building design that result in achieving a quantifiable percentage reduction in energy usage beyond the Title 24 building code requirement. Energy producing measures (e.g., solar photovoltaic) would be excluded. New residential developments would meet these criteria by incorporating EE measures into the building design. The Implementer will conduct research and analysis to assess the parameters used for establishing density bonuses for all new residential developments within the City. Staff will obtain input from internal stakeholders and the development community concerning density bonuses for residential projects based on EE, which will also include determining the percentage to be achieved beyond the minimum Title 24 building code.

Implementer will provide all materials developed under this task to CPM for review and comment:

1. **Report on Status of Implementer or Subcontractor to Support the Task:**
Implementer will submit monthly reports on the status of hiring subcontractor or consultant with expertise necessary to complete the activities in this task.
2. **Assessment and Planning Report for Municipal Code Amendment to Provide Residential Density Bonuses for Energy Efficient Projects (Draft and Final):** In preparation for the development of municipal code amendments that will provide residential density bonuses for energy efficient projects, Implementer will review available information on the manner in which energy efficiency and density bonuses can be developed. This Assessment and Planning Report will present the plan for developing the performance criteria that a project must achieve to qualify for the density bonus. These criteria can be met by incorporating energy efficiency measures into the building design. The plan will discuss the analytic methodology required to conduct the research needed to for these tasks.
3. **Draft Municipal Code Amendment:** The Implementer will evaluate alternative scenarios for density bonuses and the energy efficiency criteria to qualify for a density bonus. Based on this analysis, a draft municipal code amendment will be developed. Implementer will obtain input from the public and prepare a draft for review by internal stakeholders, including the Planning Commission and City Council.
4. **Report on Stakeholder Input:** Implementer will report activities conducted with public and City officials. The report will include: list of stakeholder meetings,

workshops, and other processes used to elicit public input; list of all attendees and contact information by workshop; and discussion on how input was used in refining the proposed code amendment.

5. **Final Municipal Code Amendment:** Based on feedback received during the draft review and stakeholder input, Implementer will prepare a final Municipal Code Amendment for final review by the Planning Commission and review and approval by the City Council.
6. **Submit Municipal Code Amendment to Planning Commission and City Council for Review and Adoption:** Implementer Staff will submit the Municipal Code Amendments to the Planning Commission for review and the City Council for review and approval. If the amendments are adopted, Implementer will submit documentation of the approval, as well as the date the amendments become effective. If the amendment is not adopted, Implementer will submit documentation to SCE that details the reasons for rejection, and alternate plans to be considered to increase the likelihood of adoption at a later date.
7. **Monthly Status Reports:** Implementer will provide a Monthly Report of all on-going activities including a list of Monthly achievements and outstanding issues.

B. Task Performance Indicators

The Implementer will, at a minimum, track the following information through the IR Tool:

- Status of the completion of the Municipal Code Amendment
- Stakeholder input
- Adoption by City Council
- If the Municipal Code Amendment is not adopted, Implementer will provide reasons why they were not adopted and provide alternative steps to be considered.

Deliverables:

Task 5 - Deliverable(s)	Due Date(s)
1. Report on Status of Implementer or Subcontractor to Support the Task	NTP plus 1 Month.
2. Draft Assessment and Planning Report for Municipal Code Amendments to Allow & Encourage Integration of EE, Distributed	NTP plus 2 Months.

Generation, and Density Bonuses	
3. Final Assessment and Planning Report for Municipal Code Amendment to Allow & Encourage Integration of EE, Distributed Generation, and Density Bonuses	NTP plus 2.5 Months.
4. Draft Municipal Code Amendments	NTP plus 8 Months.
5. Report on Stakeholder Input	NTP plus 10 Months.
6. Final Municipal Code Amendments	NTP plus 11 Months.
7. Submit Municipal Code Amendments to Planning Commission for Review	NTP plus 11 Months.
8. Submit Municipal Code Amendments to City Council for Adoption; provide effective date of code, or reasons for rejection and alternate plans considered	NTP plus 12 Months.
9. Monthly Status Reports	Monthly with Invoicing Requirements

Task 6: Invoicing and Reporting

A. Invoicing

The Implementer will submit to the CPM an Invoice which includes supporting documentation in accordance with the requirements delineated Appendix A, “Invoicing Requirements” and the Contract (Section 10).

SCE may amend the invoicing requirements from time to time, at which time SCE will notify Implementer of the changes and issue a Change Order. Implementer will implement these modifications in a timely manner and reflect any changes in future invoice documentation.

B. Reporting

The Implementer will submit to the CPM all required reports initially as a draft for review and approval by the CPM. Implementer will be responsible for implementing, adhering to, and the submission of, the items as described in Appendix D, “Regulatory Reporting Requirements” and the Contract (Section 9).

SCE may amend the reporting requirements from time to time, at which time SCE will notify Implementer of the changes and issue a Change Order. Implementer will implement these modifications in a timely manner and reflected in future invoice documentation.

Deliverables:

Task 6 Deliverable(s)	Due Date(s)
1. Prepare and submit invoices and supporting documentation to SCE	15th Calendar Day of the Month per Appendix A, "Invoicing Requirements"
2. Submit final invoice to SCE	April 15, 2015
3. Prepare and submit Monthly Report to SCE	15th Calendar Day of the Month per Appendix D, "Regulatory Reporting Requirements"
4. Submit Commission reports	Semi-annually and annually

Task 7: Ramp-Down and Shut-Down Program

A. Program Shut-Down

All Program operations will be completely shut down after the last day of the effective period of the Contract, and no later than December 31, 2014, with the exception of preparation and submittal of the Final Report, as defined in Task 8.

Deliverables:

Task 7 Deliverable(s)	Due Date(s)
1. Complete all services	No later than December 31, 2014.

Task 8: Submit Final Program Report

After Program completion, the Implementer will submit a final report that reviews the Program's progress and accomplishment (the "Final Report"). The Final Report will include the information referenced in Appendix E, "Final Program Report Template".

Deliverables:

Task 8 Deliverable(s)	Due Date(s)
1. Submit draft Final Report for SCE review and approval	No later than February 15, 2015
2. Submit revised Final Report for SCE review and approval	The earlier of March 31, 2015 or within 2 weeks of receipt of SCE comments

SECTION 4 – PAYMENT

A. Payment Terms

The Program will utilize a 100% time and material based payment (T&M Payment) structure based on the fully burdened billing rates contained in Section 4, Table 1. All payments will be subject to Appendix A, “Invoicing Requirements” and the Contract (Section 10).

Table 1: Fully Burdened Hourly Rates by Title²

Staffing Direct Labor	Responsibility	Hourly Rate (U.S. Dollars)	Estimated % of Time
Planning Official	Supervision of ordinance & policy preparation, review ordinances, review options for proposed workshop(s), & input on final workshop approach(es)	\$175.00	5%
Building Official	Participation in training, and review and approval of proposed training(s)	\$175.00	2%
Associate/Senior Planner	Project manage, complete required research, identify best policy approach(es), prepare rough drafts, & coordinate ordinance preparation & proposed workshop(s)	\$150.00	80%
Building Staff	Assistance/input on redesigning forms.	\$100.00	2%
Planning Technician	Coordinate accounting and invoicing	\$100.00	6%
Total			100%

B. Implementer's Budget Breakdown

The Work budget is divided into three cost categories described as:

- **Administrative Costs:** Typically, program overhead costs, such as staff labor/benefits, employee expenses, and miscellaneous general expenses that are not marketing and outreach (Marketing and Outreach), direct implementation, or incentive/rebate costs. These costs will usually be for labor incurred in preparing invoices and reporting (monthly, semi-annual and ad hoc).

² Fully burdened rates are defined as “Labor Related Cost Under Time and Materials Basis” in Section 10 of the Contract.

- **Marketing and Outreach Costs:** Typically, marketing costs such as collateral material, outreach costs such as promotional events, and staff labor associated with incurring marketing costs and activities.
- **Direct Implementation Costs:** Costs related to activities directly tied to, and associated with, the development and the implementation of the proposed Work, including subcontractor costs.
- **Total Two-Year Budget:** Sum of the components listed above.

The Implementer's Budgets by cost category are shown for each task in Table 2 through Table 5.

Table 2: Implementer's Budget (Task 2)

Task 2 Budget Breakdown		
Allowable Cost	%	\$
(1) Administration	10%	\$1,682
(2) Marketing and Outreach	5%	\$841
(3) Direct Program Implementation	85%	\$14,297
Total Implementer Budget: (1)+(2)+(3)	100%	\$16,820

Table 3: Implementer's Budget (Task 3)

Task 3 Budget Breakdown		
Allowable Cost	%	\$
(1) Administration	10%	\$1,682
(2) Marketing and Outreach	5%	\$841
(3) Direct Program Implementation	85%	\$14,297
Total Implementer Budget: (1)+(2)+(3)	100%	\$16,820

Table 4: Implementer's Budget (Task 4)

Task 4 Budget Breakdown		
Allowable Cost	%	\$
(1) Administration	10%	\$4,205
(2) Marketing and Outreach	2%	\$841

(3) Direct Program Implementation	88%	\$37,004
Total Implementer Budget: (1)+(2)+(3)	100%	\$42,050

Table 5: Implementer's Budget (Task 5)

Task 5 Budget Breakdown		
Allowable Cost	%	\$
(1) Administration	10%	\$2,523
(2) Marketing and Outreach	3%	\$631
(3) Direct Program Implementation	87%	\$22,076
Total Implementer Budget: (1)+(2)+(3)	100%	\$25,230

C. Program Budget Limit

In no event will the Implementer exceed the total amount budgeted by SCE for the Contract related to this SOW of **\$100,920.00.**

D. Performance Indicators

SCE will, at a minimum, monitor the Work based on the following Program Performance Indicators:

- Progress made against the goals, deliverables, and due dates above; and
- Actual performance versus predicted performance as outlined herein.

APPENDIX A: INVOICING REQUIREMENTS

A. Invoicing Instructions

1. Advance Copy to CPM

An advance electronic copy of Implementer's invoice (Advance Copy) must be submitted to the CPM by the 15th Calendar Day of each month, and include the following attachments:

- Invoice Summary Page section of this Appendix A (see Item B.1 below); and
- All information outlined in the Time and Materials Invoicing Requirement section of this Appendix A (see Item B.2 below).

2. Final Invoice to Accounts Payable

Upon CPM approval of the Advance Copy, the Implementer will submit a hard copy invoice (Final Invoice) to Accounts Payable within two (2) Business Days thereafter. The hard copy invoice must include the following attachments:

- Invoice Summary Page (see Item B.1 below);
- All information outlined in the Time and Materials Invoice Requirement section of this Appendix A (see Item B.2 below); and
- Any additional substantiating documentation, as requested at the sole discretion of the CPM or procurement agent.

Mail an original and one copy of the Final Invoice to the following address:

Southern California Edison Company
Accounts Payable Division
P.O. Box 700
Rosemead, CA 91770

Send an electronic copy of the Final Invoice to the CPM.

If rates, rate format or rate components are different from that stated in the Contract, payment may be delayed due to necessary validation of the invoice.

Failure to comply with invoice instructions or any other terms and conditions of the Contract may result in adjustment or rejection of the invoice.

B. Invoicing Requirements

1. Invoice Summary Page: All invoices must contain an invoice summary page with, at a minimum, the following information:

- SCE's Contract number;
- Task description;
- Total amount authorized;
- Current monthly amount invoiced (including the task(s));
- Cumulative amount invoiced to date (including the task(s)); and
- Statement of deliverables for the period.

2. Time and Materials Invoicing Requirements

In addition to the invoice instructions contained herein, the Implementer will also refer to Section 10 of the Contract for additional invoicing instructions.

Each invoice will provide sufficient detail to identify the following elements:

- Personnel work dates;
- Personnel work hours by name and classification;
- Personnel work rates: fixed hourly billing rates;
- Description of work performed - by person, by day, broken down no less than by the hour by task in sufficient detail to identify work performed;
- Itemized receipts for material and subcontract costs;
- Itemized receipts for "Out-of-Pocket" expenses authorized by the Contract; and
- Itemized receipts for authorized travel costs or detail of trips for which authorized mileage is charged.

APPENDIX B: DEFINED TERMS

1. **Baseline Data:** The initial base metric for comparing the net result of programmatic changes versus what would have happened in the absence of the Program or activity.
2. **Business Day:** The period from one midnight to the following midnight, excluding Saturdays, Sundays, and holidays.
3. **Calendar Day:** The period from one midnight to the following midnight, including Saturdays, Sundays, and holidays.
4. **California Public Utilities Commission (“CPUC” or “Commission”):** Public agency that regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies.
5. **Contract(s):** Agreement entered into between SCE and the Implementer which authorizes the Work, states the commercial terms, incorporates by reference SCE’s Ts&Cs (or a different set of terms and conditions mutually agreed upon between SCE and the Implementer), a Statement of Work, and other referenced documents, all of which form the contract between SCE and the Implementer to perform the Work described herein. The term “Contract(s)” will have the same definition and meaning ascribed to as the term “Agreement(s)” under SCE’s Ts&Cs.
6. **Contract Program Manager (CPM):** The SCE Representative who will manage the Program.
7. **Customer:** For purposes of this SOW, Customer shall mean any customer of SCE that is within the Implementer’s jurisdiction.
8. **Demand Response or DR:** Sometimes referred to as load curtailment or reduction. Mechanisms (such as interruptible rates, bill credits) are used to encourage consumers to use energy at different (lower cost) times of day or to interrupt energy use for certain equipment temporarily, usually in direct response to an event or price signal.
9. **Energy Efficiency or EE:** An action, appliance or device that reduces the total electric consumption of a Customer, while maintaining a level of service that is the same or better than before.
10. **Local Government or Institutional Partnership Programs:** A program that coordinates efforts of a utility and a local government or other entity to use the strengths of both parties to achieve energy savings goals.
11. **Marketing and Outreach:** Communications activities designed to identify, reach, and

motivate potential Customers to take actions to either learn more about or invest in EE opportunities.

12. Measures

- Specific Customer actions which reduce or otherwise modify energy end-use patterns.
- A service or a product whose installation and operation at a Customer's premises results in a reduction in the Customer's on-site energy use, compared to what would have happened without the service or product installation.

13. Month or Monthly: A term ending on the last Calendar Day of each month.

14. Performance Indicators: Specific, measureable, actionable, realistic and time-specific requirements that will directly and measurably contribute to SCE's business

15. SCE Invoice and Reporting Tool (IR Tool): SCE's invoicing and reporting tool that uses either a Web-based interface or a database format as determined by the CPM to collect program information. See Appendix A, "Invoicing Requirements," and Appendix D, "Regulatory Reporting Requirements" for more information.

16. Title 24: California Code of Regulations (CCR), Title 24, also known as the California Building Standards Code (composed of 12 parts). Title 24, Part 6 sets forth California's energy efficiency standards for residential and nonresidential buildings and was established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Title 24, Part 6 is the focus of the Work under this Contract.

17. Work: Any and all obligations of Implementer to be performed for SCE and Customers pursuant to and during the term of the Contract resulting from this SOW, any revision to such Contract, or a subsequent amendment or Change Order. The Work will include, without limitation the Work described in Section 3 of this SOW.

APPENDIX C: STRATEGIC PLAN SUPPORT MENU

Table 6. Strategic Plan Support Menu

Strategic Plan Goal 1: Local governments lead adoption and implementation of “reach” codes stronger than Title 24 on both mandatory and voluntary bases.		
STRATEGY	1.1	Adopt codes, ordinances, standards, guidelines or programs that encourage or require building performance exceeding state requirements. The focus should be on using existing models, or if there is something new and unique, that it be replicable.
TASKS	1.1.1	Adopt building energy codes more stringent than Title 24’s requirements, using cost-effectiveness studies by Climate Zone done by the utilities; adopt one or two additional tiers of increasing stringency.
	1.1.2	Adopt a Green Building policy for municipal development, commercial development and/or residential development.
	1.1.3	Develop/adopt point of sale programs such as a Residential or Commercial Energy Conservation Ordinance. Focus on whole building performance.
	1.1.4	Change local codes to allow and encourage integration of EE, demand response, and on-site generation.
	1.1.5	Develop and adopt programs to encourage energy efficiency such as one-stop permitting, on-line permitting, separate Zero Net Energy (ZNE) permit processes, density bonuses, or a recognition program.
	1.1.6	Develop educational programs for local elected officials, building officials, commissioners, and stakeholders to improve adoption of EE codes, ordinances, standards, guidelines and programs.
STRATEGY	1.2	Implement codes, ordinances, standards, guidelines or programs that encourage building performance exceeding state standards.
TASKS	1.2.1	Implement any of the Tasks under Strategy 1.1 above, through a process involving internal and external stakeholders, etc.
Strategic Plan Goal 2: Strong support from local governments for energy code compliance enforcement.		
STRATEGY	2.1	Improve processes resulting in increased code compliance through education, training, and enforcement practices.
TASKS	2.1.1	Local government staff and contract staff attend code compliance workshops offered by the California Energy Commission (“CEC”), utility codes & standards staff, or other local governments with strong compliance records.
	2.1.2	Redesign enforcement, compliance, plan review processes; introduce new forms and templates.
Strategic Plan Goal 3:		

Local governments lead by example with their own facilities and energy usage practices.		
STRATEGY	3.1	Develop a program to track municipal energy usage, such as through energy management software and benchmarking of municipal facilities.
TASKS	3.1.1	Develop energy benchmarking policies and procedures to enable ongoing benchmarking of all local government facilities.
	3.1.2	Set up a ‘utility manager’ computer program to track municipal usage. Identify need for sub-metering to plan, budget and manage bills.
STRATEGY		
STRATEGY	3.2	Adopt a Climate Action Plan (CAP), Energy Action Plan (EAP) for municipal operations. The plan could include setting energy efficiency standards for new and existing facilities, developing a revolving loan fund for EE projects, and so on.
TASKS	3.2.1	Develop/adopt an energy chapter for City/County climate or energy action plan.
	3.2.2	Adopt a policy to require Leadership in Energy and Environmental Design (LEED), Energy Star Ratings, or other program standard for municipal facilities.
	3.2.3	Develop policy for a revolving EE fund for City/County facilities.
	3.2.4	Develop commissioning/retro-commissioning policies for municipal facilities.
Strategic Plan Goal 4: Local governments lead their communities with innovative programs for EE, sustainability and climate change.		
STRATEGY	4.1	Adopt a CAP, EAP, or adopt EE language into another policy document, such as a General Plan, to reduce community greenhouse gas emissions with a focus on EE.
TASKS	4.1.1	Develop a regional template for CAP or EAP.
	4.1.2	Customize CAP with EE language and data.
	4.1.3	Update General Plan/Conservation Element with Climate policies. Provide EE framework and data for other people doing planning.
	4.1.4	Conduct the EE savings analysis for an annual Greenhouse Gas inventory for the City/ County.
Strategic Plan Goal 5: Local government EE expertise becomes widespread and typical.		
Local governments participating in activities under Goals 1 – 4 will be increasing their expertise.		
The activities under Goal 5 are more directly related to the programs operated by the statewide local government associations (ICLEI , ILG and LGC), by regional local government agencies such as the Association of Bay Area Governments and Great Valley Center, and by the Statewide Local Government EE Best Practices Coordinator.		

APPENDIX D: REGULATORY REPORTING REQUIREMENTS

In addition to any reporting requirements outlined in the Ts&Cs and Attachment No.1 of the Contract, the Implementer will follow the following reporting requirements when submitting documents to SCE:

- A. **Monthly Report:** The Monthly Report due on the 15th Calendar Day of each Month for work completed the preceding Month using the IR Tool. The Monthly Report will include a discussion on the following Program activities occurring during that Month:
1. Administrative activities;
 2. Marketing activities;
 3. Direct Implementation activities;
 4. Implementer's assessment of Program performance and Program status. For example, is the Program on target, exceeding expectations, or falling short of expectations, etc.;
 5. Discussion of changes in Program emphasis. For example, new Program elements, less or more emphasis on a particular delivery strategy, Program elements discontinued, Measure discontinued, etc.;
 6. Discussion of near term plans for Program over the coming months (e.g., marketing and outreach efforts that are expected to significantly increase Program participation);
 7. Changes to staffing and staff responsibilities, if any;
 8. Changes to contacts, if any;
 9. Changes to Subcontractor and Subcontractor responsibilities, if any;
 10. Number of Customer complaints received; and
 11. Program Theory and Logic Model, if not already provided in the PIP, or if Implementer makes any revisions.
- B. **Commission Reporting Requirements:** The Implementer will provide SCE with the requisite information on the prior Month's activities, accomplishments, and expenditures related to its respective Work obligations, for purposes of preparing any reports required of SCE by the Commission including Quarterly, Semi-annual and Annual Reports.

The Commission may amend reporting requirements from time to time. SCE will notify Implementer of any reporting changes and issue a Change Order. Implementer will implement these modifications in a timely manner and reflected in future invoice documentation.

Requirements for these reports may change per the direction of the Commission or the Commission's Energy Division. The current reporting requirements are as follows:

1. **Semi-annual Report:** Implementer will provide SCE with the requisite

information to be compiled for the portfolio reporting in Program Semi-annual Reports using the Semi-annual Report template set forth in Section 1.a herein. Semi-annual reports are due March 1st and September 1st of each year.

a. Semi-annual Report Template

i. A template will be provided by CPM prior to the reporting period.

2. Implementer will provide additional data or information as required by the Commission.

C. Allowable Costs

Allowable Costs Table	
The cost items listed on the Allowable Costs sheet are the only costs that can be claimed for ratepayer-funded energy efficiency work. The costs reported should be only for costs actually expended. Any financial commitments are to be categorized as commitments. If the reporting entity (i.e., SCE, in this case) does not have a cost listed on the cost reporting sheet, then no cost may be reported for that item. These Allowable Cost elements are to be used whenever costs are invoiced or reported to the CPM. If there is a desire to include additional Allowable Cost elements, the CPM should be contacted in order to seek approval from the Commission.	
	3/30/2006
Cost Categories	Allowable Costs
<p>Administrative Cost Category</p> <p><u>Note: *These allowable costs are to be allocated towards the direct implementation category.</u></p>	Managerial and Clerical Labor
	Implementer Labor - Clerical
	*Implementer Labor - Program Design
	*Implementer Labor - Program Development
	*Implementer Labor - Program Planning
	*Implementer Labor - Program/Project Management
	Implementer Labor - Staff Management
	Implementer Labor - Staff Supervision
	Human Resource Support and Development
	Implementer Labor- Human Resources
	Implementer Labor - Staff Development and Training
	Implementer Benefits - Administrative Labor
	Implementer Benefits - Direct Implementation Labor
	Implementer Benefits - Marketing/Advertising/Outreach Labor
	Implementer Payroll Tax - Administrative Labor

Allowable Costs Table	
<p>The cost items listed on the Allowable Costs sheet are the only costs that can be claimed for ratepayer-funded energy efficiency work. The costs reported should be only for costs actually expended. Any financial commitments are to be categorized as commitments. If the reporting entity (i.e., SCE, in this case) does not have a cost listed on the cost reporting sheet, then no cost may be reported for that item. These Allowable Cost elements are to be used whenever costs are invoiced or reported to the CPM. If there is a desire to include additional Allowable Cost elements, the CPM should be contacted in order to seek approval from the Commission.</p>	
	3/30/2006
Cost Categories	Allowable Costs
<p>Note: **Travel and Conference Fees associated with Implementer Labor (e.g., Program Design, Program Development, Program Planning, and Program/Project Management) are to be allocated towards the direct implementation category.</p>	Implementer Payroll Tax - Direct Implementation Labor
	Implementer Payroll Tax - Marketing/Advertising/Outreach Labor
	Implementer Pension - Administrative Labor
	Implementer Pension - Direct Implementation Labor
	Implementer Pension - Marketing/Advertising/Outreach Labor
	**Travel and Conference Fees
	Implementer - Conference Fees
	Implementer Labor - Conference Attendance
	Implementer - Travel - Airfare
	Implementer - Travel - Lodging
	Implementer - Travel - Meals
	Implementer - Travel - Mileage
	Implementer - Travel - Parking
	Implementer - Travel - Per Diem for Misc. Expenses
	Overhead (General and Administrative) - Labor and Materials
	Implementer Equipment Communications
	Implementer Equipment Computing
	Implementer Equipment Document Reproduction
	Implementer Equipment General Office
	Implementer Equipment Transportation
	Implementer Food Service
	Implementer Office Supplies
	Implementer Postage
	Implementer Labor - Accounting Support
	Implementer Labor - Accounts Payable

Allowable Costs Table	
<p>The cost items listed on the Allowable Costs sheet are the only costs that can be claimed for ratepayer-funded energy efficiency work. The costs reported should be only for costs actually expended. Any financial commitments are to be categorized as commitments. If the reporting entity (i.e., SCE, in this case) does not have a cost listed on the cost reporting sheet, then no cost may be reported for that item. These Allowable Cost elements are to be used whenever costs are invoiced or reported to the CPM. If there is a desire to include additional Allowable Cost elements, the CPM should be contacted in order to seek approval from the Commission.</p>	
	3/30/2006
Cost Categories	Allowable Costs
	Implementer Labor - Accounts Receivable
	Implementer Labor - Facilities Maintenance
	Implementer Labor - Materials Management
	Implementer Labor - Procurement
	Implementer Labor - Shop Services
	Implementer Labor - Administrative
	Implementer Labor - Transportation Services
	Implementer Labor - Automated Systems
	Implementer Labor - Communications
	Implementer Labor - Information Technology
	Implementer Labor - Telecommunications
Marketing/Advertising/Outreach Cost Category	
	Implementer - Bill Inserts
	Implementer - Brochures
	Implementer - Door Hangers
	Implementer - Print Advertisements
	Implementer - Radio Spots
	Implementer - Television Spots
	Implementer - Website Development
	Implementer Labor - Marketing
	Implementer Labor - Media Production
	Implementer Labor - Business Outreach
	Implementer Labor - Customer Outreach
	Implementer Labor - Customer Relations
Direct Implementation Cost Category	
	Financial Incentives to Customers Activity - Direct Labor
	Implementer Labor - Facilities Audits

Allowable Costs Table	
<p>The cost items listed on the Allowable Costs sheet are the only costs that can be claimed for ratepayer-funded energy efficiency work. The costs reported should be only for costs actually expended. Any financial commitments are to be categorized as commitments. If the reporting entity (i.e., SCE, in this case) does not have a cost listed on the cost reporting sheet, then no cost may be reported for that item. These Allowable Cost elements are to be used whenever costs are invoiced or reported to the CPM. If there is a desire to include additional Allowable Cost elements, the CPM should be contacted in order to seek approval from the Commission.</p>	
	3/30/2006
Cost Categories	Allowable Costs
	Implementer Labor - Curriculum Development
	Implementer Labor - Customer Education and Training
	Implementer Labor - Customer Equipment Testing and Diagnostics
	Installation and Service - Labor
	Implementer Labor - Customer Equipment Repair and Servicing
	Direct Implementation Hardware and Materials
	Implementer - Direct Implementation Literature
	Implementer - Education Materials
	Implementer - Energy Measurement Tools
	Implementer - Installation Hardware
	Implementer - Audit Applications and Forms
	Rebate Processing and Inspection - Labor and Materials
	Implementer Labor - Field Verification
	Implementer Labor - Rebate Processing
	Implementer - Rebate Applications

D. **Ad Hoc Reporting:** Implementer acknowledges that SCE may, in its sole discretion, require Implementer to provide such other reports or documentation that SCE deems appropriate or necessary (the “Ad Hoc Reports”). Implementer will comply with any request for such Ad Hoc Report(s) within a reasonable time or, if applicable, within the time requested by SCE.

APPENDIX E: FINAL PROGRAM REPORT TEMPLATE



Local Govt_Final
Report Template_v10

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: ACCEPTANCE OF THE RIVERSIDE COUNTY TRANSPORTATION COMMISSION'S CONGESTION MANAGEMENT AND AIR QUALITY GRANT, AUTHORIZE EXECUTION OF A MEMORANDUM OF UNDERSTANDING, AUTHORIZE AN APPROPRIATION OF FUNDS FOR THE AQUEDUCT TRAIL PROJECT FROM THE MORENO VALLEY MALL AREA TO LAKE PERRIS STATE RECREATION AREA, AND AMEND THE FISCAL YEAR 2013/2014 ADOPTED CAPITAL IMPROVEMENT PLAN TO INCLUDE THE SUBJECT PROJECT AS A FUNDED STREET PROJECT, PROJECT NO. 801 0055 70 77

RECOMMENDED ACTION

Recommendations:

1. Accept the Congestion Management and Air Quality (CMAQ) grant award from the Riverside County Transportation Commission (RCTC) of up to \$340,000 for the Project Approval and Environmental Document (PA&ED) phase of the Aqueduct Trail Project from the Moreno Valley Mall Area to Lake Perris State Recreation Area (Aqueduct Trail Project).
2. Authorize the City Manager to execute a Memorandum of Understanding (MOU) with RCTC when it is received for the Aqueduct Trail Project, subject to approval of the City Attorney.
3. Authorize the Chief Financial Officer to appropriate \$340,000 as revenue and expense in the Capital Projects Reimbursements fund (Fund 3008), and the \$85,000 local match requirement as expense in the Measure A Fund (Fund 2001) for the PA&ED phase of the Aqueduct Trail Project.

4. Amend the Fiscal Year 2013/2014 Adopted Capital Improvement Plan (CIP) to include the Aqueduct Trail Project as a funded Street project, Project No. 801 0055 70 77.

SUMMARY

This report requests City Council accept the \$340,000 CMAQ grant award from RCTC, authorize the execution of the MOU when it is received, appropriate funds for the PA&ED phase of the Aqueduct Trail Project, and amend the Fiscal Year 2013/2014 Adopted CIP to include the Aqueduct Trail Project as a funded Street project.

DISCUSSION

At its June 2013 meeting, RCTC approved the 2013 Multi-Funding Call for Projects program. On September 10, 2013, City Council approved submittal of grant applications to RCTC and the City's commitment to provide matching funds for projects selected through the program. Fifty-five projects throughout the County were submitted by the September 23, 2013 deadline. The projects were subsequently evaluated based on regional significance, project readiness, safety, air quality benefits, cost/benefit ratio, Regional Transportation Plan/Sustainability Communities Strategy Greenhouse Gas benefits, and local match commitment.

On January 8, 2014 the City received notification that RCTC will provide \$340,000 in CMAQ grant funding with a 20% local match of \$85,000 for a total amount of \$425,000 for the PA&ED phase of the Aqueduct Trail Project. The project is envisioned to provide family-friendly recreational opportunities within the City and connection to the Lake Perris State Recreation Area (SRA). The limits of the project are anticipated to be from a logical point near Eucalyptus Avenue between Day Street and Elsworth (generally the Moreno Valley Mall area) to an existing trail system within the SRA and to the east of Lasselle Street. The scope of the work will include studying the entire route and developing a comprehensive plan for a multi-use (pedestrian/bicycle) trail for the entire alignment. The funds are provided to address gaps in the existing trail, improve access to adjacent neighborhoods, schools, and businesses, develop trail crossing strategies at busy intersections, and provide access to recreation areas. PA&ED phase activities will consist of conceptual studies and preliminary plans, environmental studies leading to California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) clearances, and coordination with City departments and boards, state and regional agencies, and recreational groups. PA&ED phase work will also make recommendations of logical construction segments and associated costs for further consideration and programming, as needed.

Staff is requesting City Council accept the CMAQ grant award from RCTC. As part of the grant process, RCTC will forward an MOU for the City to sign which will outline the project schedule funding plan, and local agency match. Staff is requesting that the City Manager be authorized to execute the MOU when it is received, subject to approval by the City Attorney, to appropriate the funds, and to amend the Fiscal Year 2013/2014

Adopted CIP to include the Aqueduct Trail Project as a funded Street project. The City is also required to request allocation of funds through Caltrans prior to receiving any reimbursement, and that approval is expected in fall 2014.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will allow the City to proceed with the PA&ED phase of the Aqueduct Trail Project and receive reimbursement from RCTC for the grant amount.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay the PA&ED phase of the Aqueduct Trail Project and the City will lose the grant funds from RCTC.*

FISCAL IMPACT

Upon City Council approval, this project will be included in the Fiscal Year 2013/2014 CIP Budget.

The CMAQ grant will provide for reimbursement of up to \$340,000. The grant requires local matching funds of \$85,000 (20%) for the Aqueduct Trail Project. Matching funds will be provided from the Measure A fund (Fund 2001).

The City will appropriate the \$340,000 as revenue and expense in the Capital Projects Reimbursements fund (Fund 3008) and \$85,000 as expense in the Measure A fund (Fund 2001). **There is no impact to the General Fund.**

Proposed Appropriation for Fiscal Year 2013/2014:

Category	Fund	Project Number (PN) GL Account (GL)	Type	Original Budget	Proposed Adjustment	Revised Budget
CIP	Capital Projects Reimbursements (3008)	GL – 3008-99-99-93008-482020	Rev	\$6,100,000	\$340,000	\$6,440,000
CIP	Capital Projects Reimbursements (3008)	GL – 3008-70-77-80001-720199 PN – 801 0055 70 77-3008-99	Exp	\$3,584,407 \$0	\$340,000 \$340,000	\$3,924,407 \$340,000
CIP	Measure A (2001)	GL – 2001-70-77-80001-720199 PN – 801 0055 70 77-3008-99	Exp	\$11,706,776 \$0	\$85,000 \$85,000	\$11,791,776 \$85,000

PROPOSED PROJECT BUDGET:

Capital Projects Reimbursements Appropriation
 (Account No. 3008-70-77-80001) (Project No. 801 0055 70 77-3008)..... \$340,000
 Measure A Appropriation
 (Account No. 2001-70-77-80001) (Project No. 801 0055 70 77-2001)..... \$85,000
 Total \$425,000

ESTIMATED PROJECT COSTS:

PA&ED \$425,000
 Total \$425,000

ANTICIPATED PROJECT SCHEDULE:

Execution of MOU and Confirmation of Funding April 2014
Caltrans Approval of Funds September 2014
PA&ED October 2014 - December 2015

CITY COUNCIL GOALS

REVENUE DIVERSIFICATION AND PRESERVATION:

Develop a variety of city revenue sources and policies to create a stable revenue base and fiscal policies to support essential city services, regardless of economic climate.

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous materials incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

POSITIVE ENVIRONMENT:

Create a positive environment for the development of Moreno Valley's future.

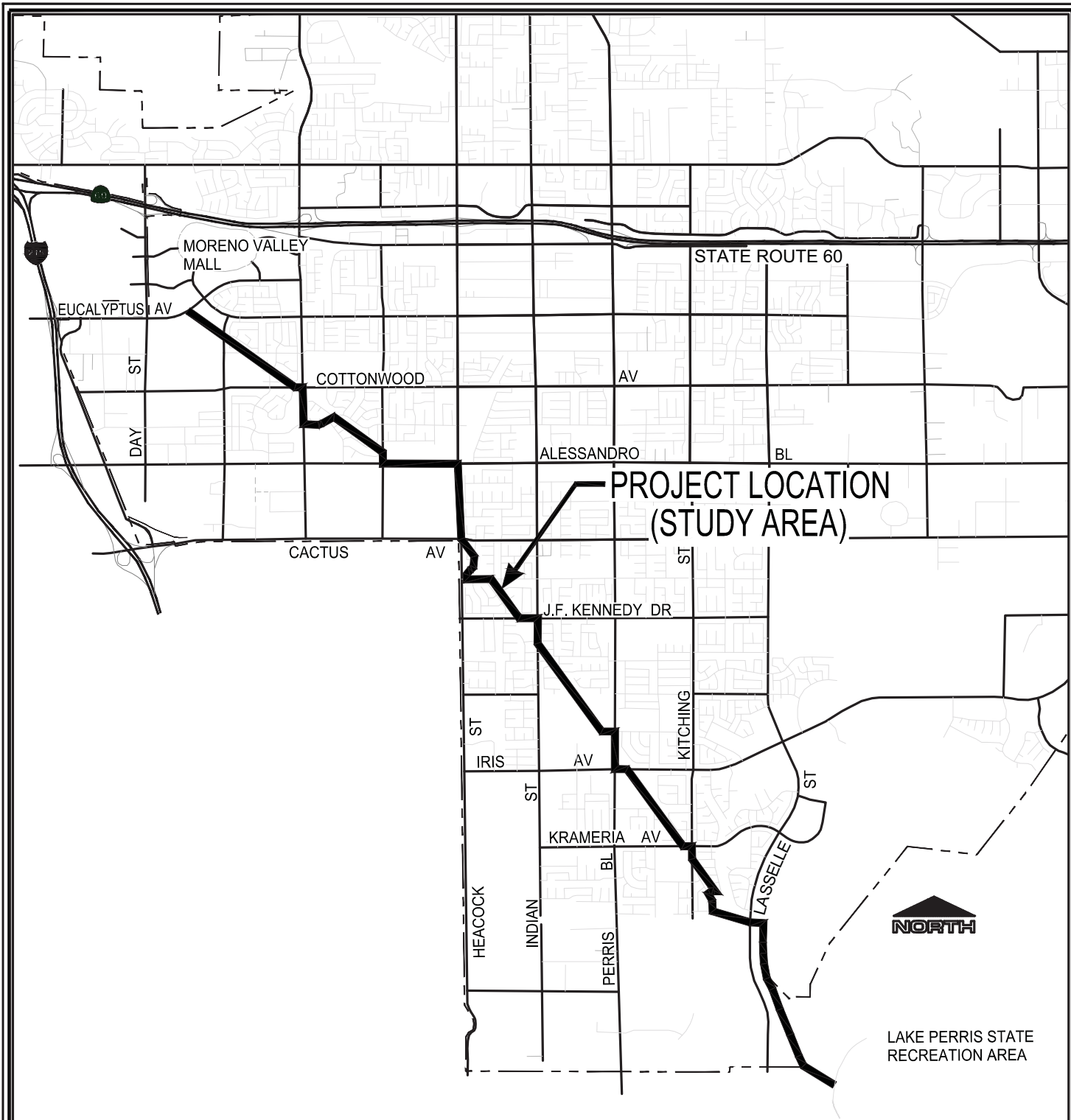
ATTACHMENTS

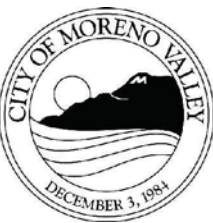
- Attachment 1: Location Map
- Attachment 2: Letter of Commitment to RCTC, dated September 19, 2013

Prepared By:
Margery A. Lazarus, P.E.
Senior Engineer, P.E.

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer



 <p>CITY OF MORENO VALLEY DECEMBER 3, 1984</p>	<h1>AQUEDUCT TRAIL</h1>		
	<p>Scale: None</p>	<p>AQUEDUCT TRAIL FROM MORENO VALLEY MALL AREA TO LAKE PERRIS STATE RECREATION AREA</p>	
	<p>Public Works Department Capital Projects Division</p>		
<p>ATTACHMENT 1</p>		<p>PROJECT NUMBER 801 0055 70 77</p>	

This page intentionally left blank.

TEL: 951.413.3000
FAX: 951.413.3750
WWW.MORENO-VALLEY.CA.US



14177 FREDERICK STREET
P. O. BOX 88005
MORENO VALLEY, CA 92552-0805

September 19, 2013

Ms. Shirley Medina
Riverside County Transportation Commission
4080 Lemon Street, 3rd Floor
Riverside, CA 92502

Subject: Application for 2013 Multi-Funding Call for Projects
Applicant: City of Moreno Valley
Project: Aqueduct Trail
Funding Request: \$340,000

Dear Ms. Medina:

The City of Moreno Valley is pleased to submit an application for the 2013 Multi-Funding Call for Projects for the Aqueduct Trail. The City respectfully requests \$340,000 in grant funds for the design phase of this important bicycle and pedestrian improvements project. As a significant step in the development of the Juan Bautista De Anza National Historic Trail, the project will greatly improve non-motorized transportation access between the Moreno Valley Mall and the Lake Perris State Recreational Area. The project demonstrates conformance to all the selection criteria: Regional Significance, Project Readiness, Local Match, Safety, Air Quality, Cost Benefit, and Consistency with the Regional Transportation Plan (RTP)/Sustainability Communities Strategy (SCS). The project can adhere to federal funding requirements, including having, or intending to obtain, NEPA/CEQA clearance. The City is also very experienced in using Caltrans Local Assistance procedures.

Specifically the Aqueduct Trail Project includes the following tasks:

- Develop a comprehensive plan for the trail.
- Address gaps in the existing trail and improved access to adjacent neighborhoods.
- Develop trail crossings at busy intersections.

The total project cost for the design phase is \$425,000, the amount of funds requested is \$340,000, and the City match amount is \$85,000 or 20 percent.

The City Council approved its commitment to these projects by their action dated September 10, 2013. I am pleased to officially authorize the City's funding application for this project. If you have any questions regarding the application, please do not hesitate to contact Michael Lloyd the Senior Engineer of the project at 951.413.3146.

Letter to Ms. Medina
September 19, 2013
Page 2

Thank you in advance for your time. The City looks forward to your review of our request.

Sincerely,



Michelle Dawson
City Manager

MDL:sc

c: Ahmad R. Ansari, Public Works Director/City Engineer
Prem Kumar, Deputy Public Works Director/Assistant City Engineer
Eric Lewis, City Traffic Engineer
File

W:\CapProj\CapProj\Grant Programs\Grant Programs\Multi-funding Call for Projects (RCTC) Sept 2013\Application 2013 Cover
Letter (CM)_Aqueduct Trail.doc



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: APPROVE THE FIRST AMENDMENT TO THE AGREEMENT WITH PSOMAS FOR THE SR-60/NASON STREET OVERCROSSING IMPROVEMENTS – PROJECT NO. 802 0003 70 77

RECOMMENDED ACTION

Recommendations:

1. Approve the “First Amendment to Agreement for Professional Consultant Services” with PSOMAS to provide professional survey services of the SR-60/Nason Street Overcrossing Improvements for \$27,913.
2. Authorize the City Manager to execute the First Amendment to Agreement for Professional Consultant Services with PSOMAS.
3. Authorize a Change Order to increase the Purchase Order with PSOMAS for the amount of \$27,913 when the First Amendment has been signed by all parties.

SUMMARY

This report recommends approval of the First Amendment to Agreement for Professional Consultant Services with PSOMAS for additional surveying services during construction for the SR-60/Nason Street Overcrossing Improvements project. The project is funded with Measure A SLPP Fund, Capital Projects Reimbursements, DIF Interchange Improvements Capital Projects Fund, and 2007 Tax Allocation Bonds (TABS) and has been approved in the 2013/2014 Capital Improvement Plan (CIP).

DISCUSSION

The SR-60/Nason Overcrossing Improvements project is designed to replace the existing bridge with a wider structure, as well as complete related improvements. PSOMAS was selected as a result of a competitive selection process. The City issued a Request for Proposal (RFP) to provide survey services based on the construction plans, specifications, and Caltrans requirements. Staff completed negotiations with PSOMAS as the top-ranked survey firm. On November 13, 2012, City Council approved an Agreement for Professional Consultant Services with PSOMAS. The scope consists of surveying services for the bridge replacement and installation of landscape and hardscape. Services performed are on an as-needed basis, and consist of field survey layout under the direction of a licensed Land Surveyor, providing required survey equipment and experienced staff within 48 hours' notice, setting monument ties, and staking all proposed improvements in accordance with the Caltrans Survey Manual.

Additional surveying needs identified during the construction process relate to changes in several areas. Changes occurred in Caltrans policies on ADA compliance, which the designer of record must prepare updated final plans, and surveyor must perform layout. In addition, updates to Caltrans safety criteria took place, requiring updates to the design and construction elements at curbed areas that have metal beam guard railing. Design and construction updates to this project's median in Nason Street, from Fir Avenue to the Target driveway, were implemented and surveyed as a result of the coordination with the next project to the south (Nason Street Widening from Cactus Avenue to Fir Avenue). As a great benefit to the public, this project is now constructing the ultimate median instead of an interim median, thereby reducing traffic interruption. Lastly, it became apparent in early 2013 that to expend the target percentage of TABS funds by the June 30, 2013 deadline, the project had to be accelerated, and the acceleration of the work and its resulting re-sequencing created more night and weekend work, which utilized more of the survey budget than estimated. Finally, the updates to the hardscape for the interchange will create a need for more detailed survey staking. This results in additional staking and surveying services. PSOMAS has submitted a proposal for \$27,913 for the additional work.

The contract total is \$187,864 (\$159,951 for the original Agreement plus \$27,913 for the First Amendment). Staff recommends that the City Council approve the First Amendment with PSOMAS and increase the Purchase Order by \$27,913.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will facilitate the timely completion of the project.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay project completion.*

FISCAL IMPACT

The project is included in the Fiscal Year 2013/2014 Capital Improvement Plan and is currently funded using State-Local Partnership Program (SLPP) grant funds (Fund 2001), Capital Projects Reimbursements (Fund 3008), 2007 Tax Allocation Bonds (TABs) (Fund 3412), and Developer Impact Fee (DIF) Interchange Improvements funds (Fund 3311). These funds have been allocated for the SR-60/Nason Overcrossing Improvements project and can only be used for interchange related improvement efforts. There is no impact to the General Fund.

AVAILABLE FUNDS – FISCAL YEAR 2013/2014**SLPP Funds**

(Account No. 2001-70-77-80002) (Project No. 802 0003 70 77)	\$ 1,000,000
Capital Projects Reimbursements	
(Account No. 3008-70-77-80002) (Project No. 802 0003 70 77)	\$ 6,100,000
2007 Tax Allocation Bonds	
(Account No. 3412-70-77-80002) (Project No. 802 0003 70 77)	\$ 4,469,000
DIF Interchange Improvements Funds	
(Account No. 3311-70-77-80002) (Project No. 802 0003 70 77)	<u>\$ 974,000</u>
Total Project Budget.....	\$12,543,000

ESTIMATED CONSTRUCTION COSTS – FISCAL YEAR 2013/2014

Construction (includes contingency).....	\$10,695,000
Construction Support Services (Design Support Services for Construction) .	\$ 102,000
Construction Management & Inspection Services	\$ 1,280,000
Construction Support Services (Survey & Geotechnical)	\$ 173,000
Additional Survey Services	\$ 28,000
Project Management and Administrative Costs*	\$ 150,000
Utility and Agency Inspection and Materials Costs**	<u>\$ 115,000</u>
Total Estimated Cost	\$12,543,000

*Includes City project administration, printing and other miscellaneous costs.

**Includes EMWD, SCE, Caltrans, RCFC&WCD and CHP.

ANTICIPATED PROJECT SCHEDULE

Complete Hardscape/Landscaping	May 2014
Plant Establishment Period	June 2014 - May 2017

CITY COUNCIL GOALS**PUBLIC SAFETY:**

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

POSITIVE ENVIRONMENT:

Create a positive environment for the development of Moreno Valley's future.

ATTACHMENTS

Attachment 1: First Amendment to Agreement for Professional Consultant Services with PSOMAS - Project No. 802 0003 70 77

Prepared By:
Margery Lazarus, P.E.
Senior Engineer

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer

**FIRST AMENDMENT TO AGREEMENT
FOR PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

This First Amendment to Agreement is by and between the CITY of MORENO VALLEY, a municipal corporation, hereinafter referred to as "City," and **PSOMAS**, a California corporation, hereinafter referred to as "Consultant." This First Amendment to Agreement is made and entered into effective on the date the City signs this Amendment.

RECITALS:

Whereas, the City and Consultant entered into an Agreement entitled "AGREEMENT for PROFESSIONAL CONSULTANT SERVICES," hereinafter referred to as "Agreement," dated December 4, 2012.

Whereas, the Consultant is providing consultant survey services on for the **SR-60/Nason Street Overcrossing Improvements** project.

Whereas, it is desirable to amend the Agreement to expand the scope of the work to be performed by the Consultant as is more particularly described in Section 1 of this First Amendment.

Whereas, the Consultant has submitted a Proposal dated January 28, 2014, for expansion of the scope of work to be performed. A copy of said Proposal is attached as "Exhibit A – First Amendment" and is incorporated herein by this reference.

SECTION 1 AMENDMENT TO ORIGINAL AGREEMENT:

1.1 The Agreement termination date of **December 31, 2015** is not extended by this Amendment, unless the termination date is further extended by an Amendment to the Agreement.

**AMENDMENT TO AGREEMENT FOR
PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

1.2 Exhibit "B" to the Agreement is hereby amended by adding to the scope of work section described in "Exhibit A – First Amendment," entitled "Request for Budget Increase for Consultant Surveying Services – SR-60/Nason Street Overcrossing Improvements."

1.3 Exhibit "D" to the Agreement is hereby further amended by adding to the cost proposal section thereof described in "Exhibit A -- First Amendment," entitled "Request for Budget Increase for Consultant Surveying Services – SR-60/Nason Street Overcrossing Improvements."

1.4 The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of **\$27,913.00**, as set forth in the above-referenced Cost Summary, in consideration of the Consultant's performance of the work set forth in "Exhibit A -- First Amendment."

1.5 The total "Not to Exceed" fee for this contract is \$187,864.00 (\$159,951.00 for the original Agreement plus \$27,913.00 for the First Amendment to Agreement).

SECTION 2

2.1 Except as otherwise specifically provided in this Amendment, all other terms and conditions of the Agreement shall remain in full force and effect.

SIGNATURE PAGE TO FOLLOW

**AMENDMENT TO AGREEMENT FOR
PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

PSOMAS

BY: _____
City Manager

BY: _____

TITLE: _____
(President or Vice President)

Date

Date

<u>INTERNAL USE ONLY</u>
APPROVED AS TO LEGAL FORM:
_____ City Attorney
_____ Date
RECOMMENDED FOR APPROVAL:
_____ Department Head
_____ Date

BY: _____

TITLE: _____
(Corporate Secretary)

Date

Attachments: "Exhibit A – First Amendment"

P S O M A S

Balancing the Natural and Built Environment

January 28, 2014

Margery Lazarus, PE, Senior Engineer
Capital Projects Division
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552-0805

Subject: Request for Budget Increase for Consultant Surveying Services
SR-60 / Nason Street Overcrossing Improvements (4MOR040419)
Project No. 802 0003 70 77 4821

Dear Margery:

I would like to take this opportunity to thank you and the City of Moreno Valley for our continued relationship. We are confident the Psomas project team will successfully complete and communicate with you, and will provide the City of Moreno Valley with our surveying services to aid in the successful completion of the Nason Street Overcrossing Improvements project.

I would like to request an increase in the overall Surveying Services budget of \$27,913. The request is for various reasons as shown on page 2. I have prepared a spreadsheet reflecting the additional budget that will be required. The hourly rate, overhead and fee is the same as the original proposal dated September 2012.

Please do not hesitate to contact me if you would like to discuss any of the items or if you need additional information.

Sincerely,

P S O M A S

Cliff Simental
VP Survey and Mapping

Cc: Wael Faqih, Falcon Engineering Services

1500 Iowa Avenue
Suite 210
Riverside, CA 92507

Tel 951.787.8421
Fax 951.682.3379
www.psomas.com

Margery Lazarus
 Page 2 of 2
 January 28, 2014
 SR-60 / Nason Street Overcrossing Improvements (4MOR040413)

Request for Budget Increase for Consultant Surveying Services
 SR-60 / Nason Street Overcrossing Improvements (4MOR040419)
 Project No. 802 0003 70 77 4821

Various issues have resulted in the need for an increase in the Surveying Services budget. They are:

- Acceleration of the project
- Changing the staging of the project
- Verifying existing conditions
- Providing topographic information for design
- Staking was needed in pieces to not obstruct the traveling public
- Night and weekend efforts
- Detailed layout for ADA compliance
- Extensive landscape design
- Additional re-staking services from original estimate
- Additional as-needed services from original estimate

LAND SURVEYING AND MAPPING SERVICES					
SR 60 / Nason Street Overcrossing Improvement Project					
Project No. 802 0003 70 77 4821					
January 28, 2014					
PSOMAS					
TASK DESCRIPTION	PROFESSIONAL & TECHNICAL CLASSIFICATION			TOTALS	
	PROJECT MANAGER	OFFICE SURVEYOR	2- PERSON SURVEY CREW	TOTAL MAN HOURS	TOTAL DOLLARS
	\$84,14	\$46,50	\$83,39		
Surveying Services	8	8	80	96	\$7,716
Additional As Needed Services	1	1	12	14	\$1,131
Sub Total	9	9	92	110	\$8,848
					Direct Labor Cost
					\$8,848
					Overhead at 186.8%
					\$16,527
					Subtotal
					\$25,375
					Profit at 10%
					\$2,538
					Total Labor Cost
					\$27,913
Total					\$27,913

R:\4mor040419\admin\Contracts\Additional Services\20140128

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: AUTHORIZE A CHANGE ORDER TO INCREASE THE EXISTING PURCHASE ORDER WITH BEDON CONSTRUCTION, INC. FOR THE MORENO MASTER DRAINAGE PLAN LINE "F", STAGE 2 CHANNEL IMPROVEMENTS – PROJECT NO. 804 0005 70 77

RECOMMENDED ACTION

Recommendations:

1. Authorize a Change Order to increase the existing Purchase Order with Bedon Construction, Inc. by an additional \$100,000 to offset a portion of the construction costs pertaining to additional Eastern Municipal Water District requirements.
2. Authorize the Public Works Director/City Engineer to execute the Change Order to the Purchase Order for Bedon Construction, Inc.
3. Authorize the Public Works Director/City Engineer to execute any subsequent related minor change orders to the contract with Bedon Construction, Inc. up to the revised Purchase Order amount, subject to the approval of the City Attorney.

SUMMARY

This report recommends approval of an increase to the existing Purchase Order with Bedon Construction, Inc. (Bedon) for the Moreno Master Drainage Plan Line "F", Stage 2 Channel Improvements (Line F). The project is being funded by Riverside County Flood Control and Water Conservation District (the District), and the project is part of the approved 2013/2014 Capital Improvement Plan (CIP).

DISCUSSION

On February 26, 2013 the City Council approved the Cooperative Agreement with the District for Line F and authorized the appropriation of \$4,000,000 to fund the construction phase of the project. The District's Cooperative Agreement stipulates the terms and conditions which includes the District's maximum monetary contribution in the amount of \$4 million. In addition, the City is to administer the project construction, convey necessary rights of way to the District, and when construction is complete to the District's satisfaction, the District will take over the ownership and maintenance of the improvements.

The limits for the Line F project are approximately 4,500 feet long and starts at 800 feet west of Oliver Street to join the existing improved channel in the proximity of the Grande Vista Drive and Iris Avenue intersection. The work involved fully improves the existing earthen trapezoidal flood control channel with a concrete lining; the construction also provides access roads, maintenance ramps, and storm drain lateral stubs.

On April 23, 2013 the City Council awarded the construction contract for the Line F project to Bedon and authorized a Purchase Order in the amount of \$3,601,458.03 (\$3,274,052.75 bid plus 10% contingency). After execution of the Agreement with Bedon and prior to construction, Eastern Municipal Water District (EMWD) identified additional requirements before allowing the City to construct the channel over their right-of-way. EMWD required the removal of two existing manholes that could cause an environmental threat if the manholes are damage due to water hydraulic pressure from a storm event after the channel is constructed. The Contractor was therefore asked to modify EMWD's 33" sewer mainline and relocate a portion of EMWD's 15" sewer lateral thereby removing the manholes and future risk of an environmental incident. The cost of this modification was \$223,000 or about 70% of the original Purchase Order contingency. To assure sufficient contingency funds are available to address other possible issues at the end of the project without delaying any payments as required by the Public Contract Code to the Contractor, staff is requesting the Purchase Order contingency be increased to approximately 13%, specifically, an increase of \$100,000. Based on this estimate at the present time, staff is requesting authorization to increase the Purchase Order contingency amount from \$327,405.28 to \$427,405.28 and authorize the Public Works Director to execute any Contract Change Orders up to the revised Purchase Order amount.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely completion of Line F, thus, reducing the threat of flood damage in the area.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay the completion of Line F, leaving this area under the potential threat of flood damage.*

FISCAL IMPACT

Pursuant to the terms of the Cooperative Agreement between the District and the City, the District will contribute up to \$4,000,000 to construct Line F. There is no impact to the General Fund.

AVAILABLE FUNDS IN FISCAL YEAR 2013/2014:

Moreno Master Drainage Plan Line F, Stage 2 Channel Improvements (Account No. 3002-70-77-80004, Project No. 804 0005 70 77-3002).....	\$3,684,562
Total Available General Capital Projects Fund Budget.....	\$3,684,562

TOTAL PROJECT FUNDING (FY 2012/2013 – 2013/2014):

Moreno Master Drainage Plan Line F, Stage 2 Channel Improvements (Account No. 3002-70-77-80004, Project No. 804 0005 70 77-3002).....	\$4,000,000
--	-------------

ESTIMATED CONSTRUCTION RELATED COSTS:

Contractor Construction Purchase Order (includes Contingency).....	\$3,602,000
Increase to Contractor’s Purchase Order	\$100,000
Construction Design Support Services.....	\$53,000
Construction Survey Services	\$90,000
Construction Geotechnical Services.....	\$62,000
Construction Management and Project Administration*	\$61,000
EMWD Inspection Fees.....	\$32,000
Total Estimated Project Costs	\$4,000,000

**Public Works staff will provide Construction Management and Project Administration including inspection services.*

ANTICIPATED PROJECT SCHEDULE:

Anticipated Completion of Construction February 2014

CITY COUNCIL GOALS

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

ATTACHMENTS

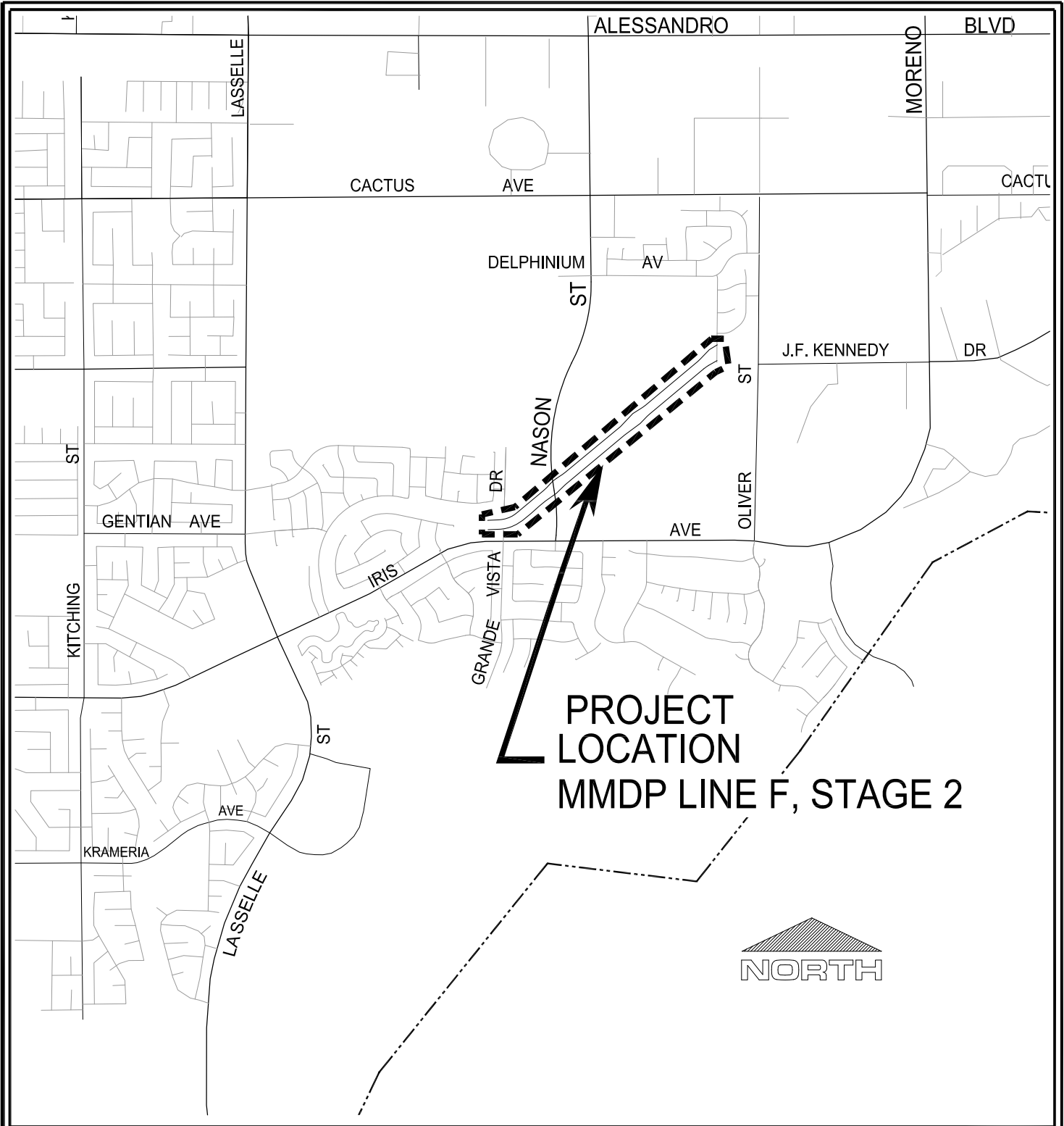
Attachment 1: Location Map

Prepared By:
Guy Pegan
Senior Engineer, P.E.

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

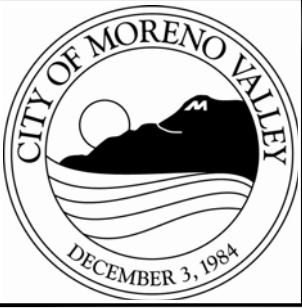
Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer

Date: 03 Feb 14 - 10:50 am
 File: \\jurica\Shared\PubWork\CopProj\PROJECTS\Gay - 804 0005 70 77 Moreno Valley Master Drainage Plan Line F\Design Phase\Auto 20140203 Location Map.dwg
 User: joshi



**PROJECT
 LOCATION
 MMDP LINE F, STAGE 2**

LOCATION MAP



Public Works Department
 Capital Projects Division

Scale: None

ATTACHMENT 1

**MORENO MASTER DRAINAGE PLAN
 LINE F, STAGE 2 CHANNEL IMPROVEMENTS
 PROJECT NUMBER 804 0005 70 77**

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: APPROVE THE SECOND AMENDMENT TO THE AGREEMENT WITH FALCON ENGINEERING SERVICES, INC. FOR THE SR-60/NASON STREET OVERCROSSING IMPROVEMENTS – PROJECT NO. 802 0003 70 77

RECOMMENDED ACTION

Recommendations:

1. Approve the “Second Amendment to Agreement for Professional Consultant Services” with Falcon Engineering Services, Inc. (Falcon) to provide additional construction management and inspection services during construction of the SR-60/Nason Street Overcrossing Improvements for \$512,522.81.
2. Authorize the City Manager to execute the Second Amendment to Agreement for Professional Consultant Services with Falcon.
3. Authorize a Change Order to increase the Purchase Order with Falcon for the amount of \$512,522.81 when the Second Amendment has been signed by all parties.

SUMMARY

This report recommends approval of the Second Amendment to Agreement for Professional Consultant Services with Falcon Engineering Services, Inc. for additional construction management and inspection services for the SR-60/Nason Street Overcrossing Improvements project. The project is funded with SLPP Funds, Capital Projects Reimbursements, DIF Interchange Improvements Capital Projects Fund, and

2007 Tax Allocation Bonds (TABS) and has been approved in the 2013/2014 Capital Improvement Plan (CIP).

DISCUSSION

The SR-60/Nason Street Overcrossing project is completing bridge construction which consists of improvements to the Nason Street Overcrossing that will replace the existing bridge with a wider structure as well as increase the vertical clearance over SR-60.

On January 4, 2012, the City entered into an agreement with Falcon to perform constructability review and related tasks. Falcon was selected in response to a Request for Proposal (RFP) to provide services consisting of a constructability review and construction management, and subsequent inspection services to advertise, award, and administer interchange improvements. On March 27, 2012, the City Council approved the First Amendment to Agreement with Falcon for construction management services. The amendment to the agreement was executed in order to contractually engage Falcon during the advertisement and subsequent construction phase.

In April 2012, during Caltrans' final plan approval process, Caltrans advised the City that policies on landscape materials and maintenance funding changed. Caltrans had shifted the burden of maintaining specific plant materials and ground covers to local agencies for long periods. In order to not lose funds, Caltrans approved the project plans in July 2012, FHWA approved the funding on September 12, 2012, and the project was advertised on September 13, 2012. Since Caltrans would not approve the previously-designed landscaping plans without the City agreeing to long-term maintenance, the majority of the landscape elements were removed from the bid plans. On November 13, 2012, Riverside Construction was awarded the construction contract and construction started January 2013.

The landscaping and ground treatments were redesigned in 2013 and approved by Caltrans. On November 12, 2013, the City Council awarded a Contract Change Order for Riverside Construction to install hardscape, landscape, irrigation, and related elements. Riverside Construction has completed the bridge structure and is completing remaining road and electrical work, and has started work on the Contract Change Order. The work consists of colored concrete hardscape, planting, and erosion control. The work also includes a three-year plant establishment period, which includes weekly inspections, possible substitutions of plant types as needed for better survival, updating Caltrans permits, and updating stormwater-compliance requirements. Some minor landscaping inspection to occur during the same timeframe of the bridge construction was included in Falcon's First Amendment to Agreement; however, at that time, the extent of the work, as well as the duration of the plant establishment period, was not known. Falcon has reviewed the needed work and submitted a proposal to continue to manage the construction of the landscaping and hardscape through its completion in May 2014. Due to its concentrated nature, the field office will remain in operation through May 2014 as needed, in order to ensure orderly progress of the work, diligent inspection, and minimal disruption to traffic. In addition, Falcon has included effort to inspect on a weekly basis the plantings during the three-year plant establishment period, estimated to be from June 2014 through June 2017.

Additional minor work included in the Falcon amendment consists of some extended inspection shifts during acceleration of the bridge demolition and related critical path activities, in order to expend the TABS funds by the stipulated deadlines. In addition, their amendment includes a contingent amount for Caltrans acceptance activities that may arise in the next three years, as well as post-plant establishment activities in order to turn over the plantings to Caltrans.

Falcon has submitted a proposal for \$512,522.81 to cover the work. Because Riverside Construction will maintain the plant materials for a three-year period, Falcon will remain under contract for the same time period. At the end of the period, Caltrans will take over full maintenance of the planting. The Second Amendment extends the Agreement termination date to December 31, 2017 to include close-out.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will facilitate the timely completion of the project.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay project completion.*

FISCAL IMPACT

The project is included in the Fiscal Year 2013/2014 Capital Improvement Plan and is currently funded using State-Local Partnership Program (SLPP) grant funds (Fund 2001), Capital Projects Reimbursements (Fund 3008), 2007 Tax Allocation Bonds (TABS) (Fund 3412), and Developer Impact Fee (DIF) Interchange Improvements funds (Fund 3311). These funds have been allocated for the SR-60/Nason Overcrossing Improvements project and can only be used for interchange related improvement efforts. There is no impact to the General Fund.

AVAILABLE FUNDS – FISCAL YEAR 2013/2014:

SLPP Funds	
(Account No. 2001-70-77-80002) (Project No. 802 0003 70 77)	\$ 1,000,000
Capital Projects Reimbursements	
(Account No. 3008-70-77-80002) (Project No. 802 0003 70 77)	\$ 6,100,000
2007 Tax Allocation Bonds	
(Account No. 3412-70-77-80002) (Project No. 802 0003 70 77)	\$ 4,469,000
DIF Interchange Improvements Funds	
(Account No. 3311-70-77-80002) (Project No. 802 0003 70 77)	\$ 974,000
Total Project Budget.....	\$12,543,000

ESTIMATED CONSTRUCTION COSTS – FISCAL YEAR 2013/2014:

Construction (includes contingency).....	\$10,695,000
Construction Support Services (Design Support Services for Construction) .	\$ 102,000
Construction Management & Inspection Services	\$ 895,000
Additional Construction Management & Inspection Services	\$ 513,000
Construction Support Services (Survey & Geotechnical)	\$ 201,000
Project Management and Administrative Costs*	\$ 37,000
Utility and Agency Inspection and Materials Costs**	\$ 100,000
Total Estimated Cost	\$12,543,000

**Includes City project administration, printing and other miscellaneous costs.*

***Includes EMWD, SCE, Caltrans, RCFC&WCD and CHP.*

ANTICIPATED PROJECT SCHEDULE:

Complete Hardscape/Landscaping	May 2014
Plant Establishment Period	June 2014 - May 2017

CITY COUNCIL GOALS

REVENUE DIVERSIFICATION AND PRESERVATION:

Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

POSITIVE ENVIRONMENT:

Create a positive environment for the development of Moreno Valley’s future.

ATTACHMENTS

- Attachment 1: Second Amendment to Agreement for Professional Consultant Services with Falcon - Project No. 802 0003 70 77

Prepared By:
Margery Lazarus, P.E.
Senior Engineer

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer

This page intentionally left blank.

**SECOND AMENDMENT TO AGREEMENT
FOR PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

This Second Amendment to Agreement is by and between the CITY of MORENO VALLEY, a municipal corporation, hereinafter referred to as "City," and **Falcon Engineering Services, Inc.**, a California corporation, hereinafter referred to as "Consultant." This Second Amendment to Agreement is made and entered into effective on the date the City signs this Amendment.

RECITALS:

Whereas, the City and Consultant entered into an Agreement entitled "AGREEMENT for PROFESSIONAL CONSULTANT SERVICES," hereinafter referred to as "Agreement," dated January 4, 2012.

Whereas, the Consultant is providing consultant construction management and inspection services for the **SR-60/Nason Street Overcrossing Improvements** project.

Whereas, the Agreement was amended on May 21, 2012 to extend the professional consultant services in the First Amendment to Agreement for Professional Consultant Services.

Whereas, it is desirable to amend the Agreement to expand the scope of the work to be performed by the Consultant as is more particularly described in Section 1 of this Second Amendment.

Whereas, the Consultant has submitted a Proposal dated February 6, 2014, for expansion of the scope of work to be performed. A copy of said Proposal is attached as "Exhibit A – Second Amendment" and is incorporated herein by this reference.

**AMENDMENT TO AGREEMENT FOR
PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

SECTION 1 AMENDMENT TO ORIGINAL AGREEMENT:

1.1 The Agreement termination date is extended from June 30, 2015 to **December 31, 2017**, unless the termination date is further extended by an Amendment to the Agreement.

1.2 Exhibit "B" to the Agreement is hereby amended by adding to the scope of work section described in "Exhibit A – Second Amendment," entitled "Cost to Complete and Additional Budget for SR-60/Nason Street Interchange Improvement Project."

1.3 Exhibit "D" to the Agreement is hereby further amended by adding to the cost proposal section thereof described in "Exhibit A -- Second Amendment," entitled "Cost to Complete and Additional Budget for SR-60/Nason Street Interchange Improvement Project."

1.4 The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of **\$512,522.81**, as set forth in the above-referenced Cost Summary, in consideration of the Consultant's performance of the work set forth in "Exhibit A -- Second Amendment."

1.5 The total "Not to Exceed" fee for this contract is \$2,487,458.37 (\$32,157.00 for the original Agreement plus \$1,942,778.56 for the First Amendment to Agreement plus \$512,522.81 for the Second Amendment to Agreement).

SECTION 2

2.1 Except as otherwise specifically provided in this Amendment, all other terms and conditions of the Agreement shall remain in full force and effect.

SIGNATURE PAGE TO FOLLOW

**AMENDMENT TO AGREEMENT FOR
PROFESSIONAL CONSULTANT SERVICES
PROJECT NO. 802 0003 70 77**

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Falcon Engineering Services, Inc.

BY: _____
City Manager

BY: _____

TITLE: _____
(President or Vice President)

Date

Date

<u>INTERNAL USE ONLY</u>
APPROVED AS TO LEGAL FORM:

City Attorney

Date
RECOMMENDED FOR APPROVAL:

Department Head

Date

BY: _____

TITLE: _____
(Corporate Secretary)

Date

Attachments: "Exhibit A – Second Amendment"

W:\CapProj\CapProj\PROJECTS\Marge - 07-41570024 Rte 60 Nason-Moreno Beach Bridge Intrchn\Design Phase\Consultant - CR&CM - Falcon\Agreement\Nason Bridge\Construction Management\Second Amendment\Falcon A#2.doc



Margery Lazarus, Senior Engineer, P.E.
Capital Projects Division, Public Works Department
P. O. Box 88005
Moreno Valley, California 92552

February 6, 2014

**RE: Cost to Complete and Additional Budget for
SR-60/Nason Street Interchange Improvement Project**

Dear Margery:

I completed reviewing the cost to date, and additional budget will be needed to complete and close-out SR-60/Nason Street Interchange Improvement Project. Cost to complete estimate was updated to reflect actual work invoiced through end of January-2014 and evaluated additional budget needed to cover Services through completion of Landscaping Extra Work "CCO#19", estimated at end of May-2014.

See attached cost through end of January-2014 and project cost to completion (including budget for added Landscaping Extra Work (CCO#19). Note that added budget is due to the following reason:

- A- City's directive to accelerate work for Stage-1 "Bridge & Completing Bridge Demolition "required extraordinary effort in coordinating and inspecting multiple tasks and extended hours/ multiple shifts.
- B- Our current budget will last for the planned completion date (through end of December-2013). However; additional budget will be needed to manage/inspect new CCO#19 (Landscaping work & Stamped Concrete).
- C- I also included a budget for plant establishment for 3-years at an assumed 4hrs/week.
- D- I included an estimated Additional Budget for "As Needed Engineering Services" "\$40,000.00"

Total additional budget requested \$512,522.81. (See attached details and invoices).

Should you have any questions, please feel free to call me at any time on my cell#951-264-2350

Sincerely,

A handwritten signature in black ink, appearing to read 'Wael Faqih', written over a horizontal line.

FALCON Engineering Services Inc.
Wael Faqih, MS, PE
Project Manager/Vice President
wfaqih@falcon-ca.com



FALCON Engineering Services, Inc.
 1020 Aquino Circle
 Corona, CA 92879
 (951) 278-0688
 (951) 278-2820 FAX
 Federal I.D. NO. 27-1587844
 Certified SBE (Cert. NO. 46000)

City of Moreno Valley
 Margery Lazarus, Senior Engineer, P.E.
 Capital Projects Division, Public Works Department
 Po Box 88005
 Moreno Valley, CA 92552

Date: 2/6/2014

City Purchase Order No. 2013-0000854
 City Project No. 07-41570024

Description: SR-60/Nason Street Interchange Improvement Project

Cost to Completion of Landscaping CCO Work
Construction Stage (landscaping Work)

<u>Employee / Activity (FALCON)</u>	<u>Rate</u>	<u>Hrs/Month needed through May-2014</u>							Total Hrs	Total Cost
		13-Nov	13-Dec	14-Jan	14-Feb	14-Mar	#####	14-May		
Labor										
Wael Faqih, PE (Resident Engineer)	\$220.00				80	40	40	40	160	\$35,200.00
Juan Rojas, PE (Assistant RE)	\$175.80								0	\$0.00
Abunnasr Husain, PE (Structures Rep.)	\$195.00				60				60	\$11,700.00
Bridge Inspector (Jannen Obeid, EIT)	\$124.03								0	\$0.00
Bridge Inspector (Jannen Obeid, EIT) OT	\$186.05								0	\$0.00
Roadway/Bridge Insp. (Ahmad Faqih; EIT)	\$139.81				140	80	80		300	\$41,943.00
Roadway/Bridge Insp. (Ahmad Faqih; EIT) OT	\$209.72								0	\$0.00
Roadway /Bridge Insp. (Ahmad Faqih, EIT) DT	\$279.62								0	\$0.00
Dion Castro (QSP/QSD) SWPPP Coordinator	\$135.30				32	32	32	32	96	\$12,988.80
Steve Moore (Electrical/Signals)	\$130.79				80	40	24	24	144	\$18,833.76
Steve Moore (Electrical/Signals) OT	\$196.19								0	\$0.00
Steve Moore DT	\$261.58								0	\$0.00
Bridge Inspector (Raymond Frangie)	\$146.58								0	\$0.00
Bridge Inspector (Raymond Frangie) OT	\$219.87								0	\$0.00
Bridge Inspector (Raymond Frangie) DT	\$293.16								0	\$0.00
(Roadway/Bridge Inspector) Moh'd Khalailah	\$135.00				168	140	120	120	428	\$57,780.00
Mohammad Khalailah (OT @ 1.5)	\$202.50								0	\$0.00
Mohammad Khalailah (OT @ DT)	\$270.00								0	\$0.00
Ibrahim Massoud, PE	\$196.19								0	\$0.00
Labor Subtotal										\$178,445.56
Actual Invoiced- Nov-2013										\$93,313.60
Actual Invoiced- Dec-2013										\$111,655.05
Actual Invoiced- Jan-2014										\$120,415.58

Reimbursable Direct Expenses

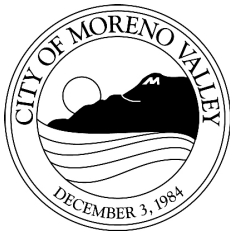
ODC: (Office Supplies/Vehicle &)Equipment 3 ea X \$1,500/M*4 **\$18,000.00**

	<u>Rate</u>									
CPM Partners (Office Engineer PT	\$125.0/hr	120	120	120	80	80	80	60	660	\$82,500.00
Francis Consulting- Landscaping Architect	\$165.0/hr	40	80	120	120	120	100	100	680	\$112,200.00
Charles Lamb										
Plant Establishment (4hrs/Weekx3-years)	3*52weeksx4hrs/Week *\$165/hr =									\$102,960.00
Charles Lamb										

Total Budget Needed \$494,105.56
Less Remaining Budget (End of January-2014) -\$30,512.55
Add 3% Markup on Subs \$8,929.80
Total Additional Budget Needed (Landscaping Extra Work) \$472,522.81
As Needed Engineering Services (Budget Estimate) \$40,000.00

Total Additional Budget plus As Needed Engrg. Services \$512,522.81

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Joel Ontiveros, Chief of Police

AGENDA DATE: February 25, 2014

TITLE: AUTHORIZATION TO APPLY AND ACCEPT A \$7,500 GRANT FROM THE DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL, "MINOR DECOY/SHOULDER TAP PROGRAM"

RECOMMENDED ACTION

Recommendations:

1. Authorize the Riverside County Sheriff's Department to apply and accept on the City's behalf, the FY2014 Alcohol Beverage Control (ABC) grant, in the amount of \$7,500.00, to conduct Minor Decoy/Shoulder Tap Programs, for the period beginning January 1, 2014 and ending June 30, 2014.
2. Authorize that all Police Department equipment costs and City personnel overtime costs associated with this grant, will be directly billed to the Riverside County Sheriff's Department Grant Unit who will manage this grant. All reimbursement funds will be sent directly to the Sheriff's Department and will not affect the City General Fund revenue or expense budgets. Therefore, there is no impact to the City General Fund and the Police Department's FY2013/2014 budget will not be affected.

SUMMARY

The City Council is requested to authorize the application and acceptance of the 2014 ABC Minor Decoy/Shoulder Tap Program grant, in the amount of \$7500 for the period beginning January 1, 2014 and ending June 30, 2014. As a result of the Riverside County Sheriff's Department administering this grant, there will be no impact to the City General Fund budget, as all City personnel overtime cost and expenses related to this grant will be billed and paid directly by the Sheriff's Department. Therefore, there will be no changes to the FY2013/2014 Police budget as a result of this grant.

ADVISORY BOARD/COMMISSION RECOMMENDATION

As a result of the Public Safety Sub-Committee meeting being canceled for the month of February of 2014, the Police Department was unable to present this grant opportunity to the Committee prior to the February 25, 2014, City Council meeting. However, this particular ABC grant has been well-supported by the Public Safety Sub-Committee in years prior.

BACKGROUND

The City of Moreno Valley has 76 On-Sale and 80 Off-Sale ABC licensed establishments that sell alcohol on a daily basis. An On-Sale ABC license authorizes the sale of beer, wine, and distilled spirits for consumption on the premises (taverns/restaurants). An Off-Sale ABC license authorizes the sale of beer, wine, and distilled spirits, for consumption off the premises where sold. In 2013, the Moreno Valley Police Department responded to 835 calls for service involving public intoxication, 12 calls for service involving the sale of alcohol to minors and 13 calls for service involving minors in possession of alcohol. In January of 2014, the Moreno Valley Police Department's Problem Oriented Policing Team (POP) conducted a Shoulder Tap operation with the assistance from the Department of Alcoholic Beverage Control (ABC). The program resulted in five offenders being issued citations for furnishing alcohol to a minor. A Should Tap/Minor Decoy operation is when a young person between the ages of 18 to 20 years of age, working in conjunction with law enforcement, enters an establishment (convenience stores/food marts etc.) and attempts to purchase alcoholic beverages. It is a misdemeanor for an employee (usually the clerk) to sell/furnish an alcoholic beverage to an under-aged person, without making a reasonable attempt to identify the age of that customer.

The Police Department is seeking City Council's authorization to apply and accept this \$7,500 grant from ABC, to combat alcohol related problems within the City of Moreno Valley. The grant will enable the POP Team to work with ABC agents to conduct Minor Decoy and Shoulder Tap programs at many of the On-Sale and Off-Sale ABC licensed establishments. In addition, the POP Team will host a Licensee Education on Alcohol and Drugs (LEAD) class for licensees in the City. In accordance with the ABC grant, the LEAD training will be provided by ABC's Training/LEAD Unit. The goal of the operations and training is deterring alcohol related problems that relate to illicit activity.

DISCUSSION

The Department of Alcoholic Beverage Control provides grant funding to law enforcement agencies to enable them to address alcohol related crimes. Agencies must be willing to work joint operations with ABC and follow their guidelines. The grant targets Minor Decoy and Shoulder Tap operations within both On-Sale and Off-Sale ABC licensed establishments.

The Moreno Valley Police Department's POP Team has conducted both Minor Decoy and Shoulder Tap programs in the past and found them to be a successful deterrent to alcohol related crimes. Acceptance of the grant would require the POP Team to follow

ABC guidelines, which are as follows: 1) announce the start of the Minor Decoy/Shoulder Tap programs, 2) announce the number of licensed premises that sold to the minor decoy and/or the number of adults arrested for purchasing alcoholic beverages for a minor decoy, 3) fax a copy of each press release to ABC, 4) monitor the time frames in the grant, 5) maintain and reconcile costs and expenses within the approved grant fund amounts of each category, 6) maintain adequate records for validation of project progress and accountability for all funds expended on the project, and 7) submit the required project reports to ABC.

The POP Team will conduct three Minor Decoy and three Shoulder Tap operations within the grant period of January 1, 2014, through June 30, 2014. In addition, the POP team will host one Licensee Education on Alcohol and Drugs (LEAD) class for licensees located within the City.

The grant will not affect current Moreno Valley Police staffing levels. The staffing level on the current POP Team combined with officers from other Special Enforcement Teams will be sufficient to fulfill the grant requirements.

ALTERNATIVES

The Council has the following alternatives:

1. Approve the application and acceptance of the FY2014 ABC Grant titled "Minor Decoy/Shoulder Tap Program" for \$7,500. **Staff recommends this alternative.**
2. Decline the 2014 application for the ABC Grant titled "Minor Decoy/Shoulder Tap Program" for \$7,500. **Staff does not recommend this alternative.**

FISCAL IMPACT

There is no requirement to match funds associated with this grant. There is no fiscal impact to the City revenue and expense budgets. All City personnel overtime expenses are billed and paid directly by the Riverside County Sheriff's Department, and as a result the Sheriff's Department will be reimbursed by ABC. Therefore, there is no impact to the City General Fund and the Police Department's FY2013/2014 budget will not be affected.

CITY COUNCIL GOALS

To provide a safe and secure environment for people and property in the community, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Prepared By:
Eric Hernandez
Lieutenant

Department Head Approval:
Joel Ontiveros
Chief of Police

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: AUTHORIZATION TO AWARD AGREEMENT FOR PROFESSIONAL CONSULTANT DESIGN SERVICES TO AKM CONSULTING ENGINEERS FOR THE SAN TIMOTEO FOOTHILL NEIGHBORHOOD FLOOD PROTECTION - MORENO MASTER DRAINAGE PLAN STORM DRAIN LINES K-1 AND K-4 – PROJECT NO. 804 0007 70 77

RECOMMENDED ACTION

Recommendations:

1. Approve the Agreement for Professional Consultant Services with AKM Consulting Engineers, 553 Walk, Irvine, CA 92618, to provide design services for the San Timoteo Foothill Neighborhood Flood Protection - Moreno Master Drainage Plan Storm Drain Lines K-1 and K-4 project.
2. Authorize the City Manager to execute the Agreement for Professional Consultant Services with AKM Consulting Engineers.
3. Authorize an issuance of a Purchase Order with AKM Consulting Engineers in the amount of \$349,788 when the Agreement has been signed by all parties.

SUMMARY

This report recommends approval of an agreement with AKM Consulting Engineers to provide professional design services for the San Timoteo Neighborhood Flood Protection - Moreno Master Drainage Plan Storm Drain Lines K-1 and K-4 project. The project receives federal funds under the Hazard Mitigation Grant Program (HMGP) and will utilize the Moreno Master Drainage Plan fees as local matching funds to the federal

grant, which could result in minimal impact to the City. This project has been approved in the 2013/2014 Capital Improvement Plan (CIP).

DISCUSSION

On October 8, 2013, the City Council accepted the HMGP grant award in the amount of \$1,442,308 for the design and construction of the Moreno Master Drainage Plan - Storm Drain Lines K-1 and K-4 and related street improvements in the San Timoteo Foothill Neighborhood. The City Council also authorized a revenue appropriation of \$1,442,308 and an expense appropriation of \$1,500,000 in the Measure A Fund (Fund 2001) for this project.

HMGP grant requires local matching funds at a minimum of 25% of the project cost. Local funds in the amount of \$500,000 from the Moreno Master Drainage Plan fees, collected and administrated by the Riverside County Flood Control and Water Conservation District (RCFC & WCD) are available and can be used for this project. A separate Cooperative Agreement with RCFC & WCD and appropriation request will be presented to City Council for approval at a later date.

The referenced San Timoteo Foothill Neighborhood, which is the area generally bounded by Locust Avenue on the north, Juniper Avenue on the south, Pettit Street on the west and Weber Avenue on the east, has experienced frequent flooding during storm events. Repeat flooding has damaged local streets and private properties, disrupted local traffic and school bus routes, and disrupted the delivery of public and utility services to the area. Flooding occurs due to the lack of an adequate surface runoff conveyance system in the area. The proposed storm drain system is to be installed within local roads starting from Locust Avenue, along Carrie Lane to Kalmia Avenue, along Kalmia Avenue to Pettit Street, then along Pettit Street heading south to connect to the existing storm drain in Pettit Street just north of Juniper Avenue. This proposed storm drain system is identified as storm drain Lines K-1 and K-4 in the Moreno Master Drainage Plan. Applicable street improvements will also be necessary to convey the surface runoff into the proposed storm drain system. These improvements will provide a flood protection level up to a 100-year storm event for the San Timoteo Foothill Neighborhood. The estimated cost for this project is at \$2,000,000.

In November 2013, the Notice Inviting Proposals and Request for Proposals (RFP) for Professional Consultant Design Services were sent to all the consultants that the City has on its list. The RFP was also published in the Press Enterprise newspaper and posted on the City's website. The City received five (5) proposals in response to the RFP. A Selection Committee, comprised of City staff, reviewed and rated all proposals, according to the consultant's ability to complete the project requirements. The top ranking three firms were invited for interviews, followed by negotiations on scope of services and fees. AKM Consulting Engineers was selected as the most qualified consultant for this project since the firm demonstrates a very thorough understanding of

the work and presents an ability to provide the required services on time and within budget.

The consultant is responsible for completing all design survey, engineering, geotechnical and environmental work necessary to obtain storm drain easements, environmental clearances under the California Environmental Quality Act (CEQA), coordinating with other agencies to obtain all required permits, preparing bid package for constructing the storm drain and related street improvements, and providing construction support services.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely design and construction of the San Timoteo Foothill Neighborhood Flood Protection-Moreno Master Plan Lines K-1 and K-4 project.*
2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay design and construction of the San Timoteo Foothill Neighborhood Flood Protection-Moreno Master Plan Lines K-1 and K-4 project and result in the loss of federal HMGP funding.*

FISCAL IMPACT

This project will be financed by federal HMGP funding, the Moreno Master Drainage Plan fees, and Measure A (Fund 2001). Measure A funds are restricted to capital improvements and street rehabilitation. **There is no impact to the General Fund.**

AVAILABLE BUDGET – FISCAL YEAR 2013/2014:

HMGP Funds	
(Account No. 2001-70-77-80001) (Project No. 804 0007 70 77)	\$1,442,308
Measure A Funds	
(Account No. 2001-70-77-80001) (Project No. 804 0007 70 77)	\$ 57,692
Moreno Master Drainage Plan Fees	
(To be available once co-op agreement with RCFC & WCD is executed)	<u>\$ 500,000</u>
Total	\$2,000,000

ESTIMATED PROJECT COSTS:

Design	\$ 350,000
Project Administration	\$ 45,000
Construction	\$1,490,000
Construction Geotechnical Services.....	\$ 25,000
Construction Survey Services	\$ 25,000
Construction Administration and Inspection	<u>\$ 65,000</u>
Total	\$2,000,000

ANTICIPATED PROJECT SCHEDULE:

Design, Right of Way,
CEQA Environmental ClearancesMarch 2014 to March 2015
Advertise and Award Contract..... April 2015 to June 2015
ConstructionJuly 2015 to July 2016

CITY COUNCIL GOALS

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

POSITIVE ENVIRONMENT:

Create a positive environment for the development of Moreno Valley's future.

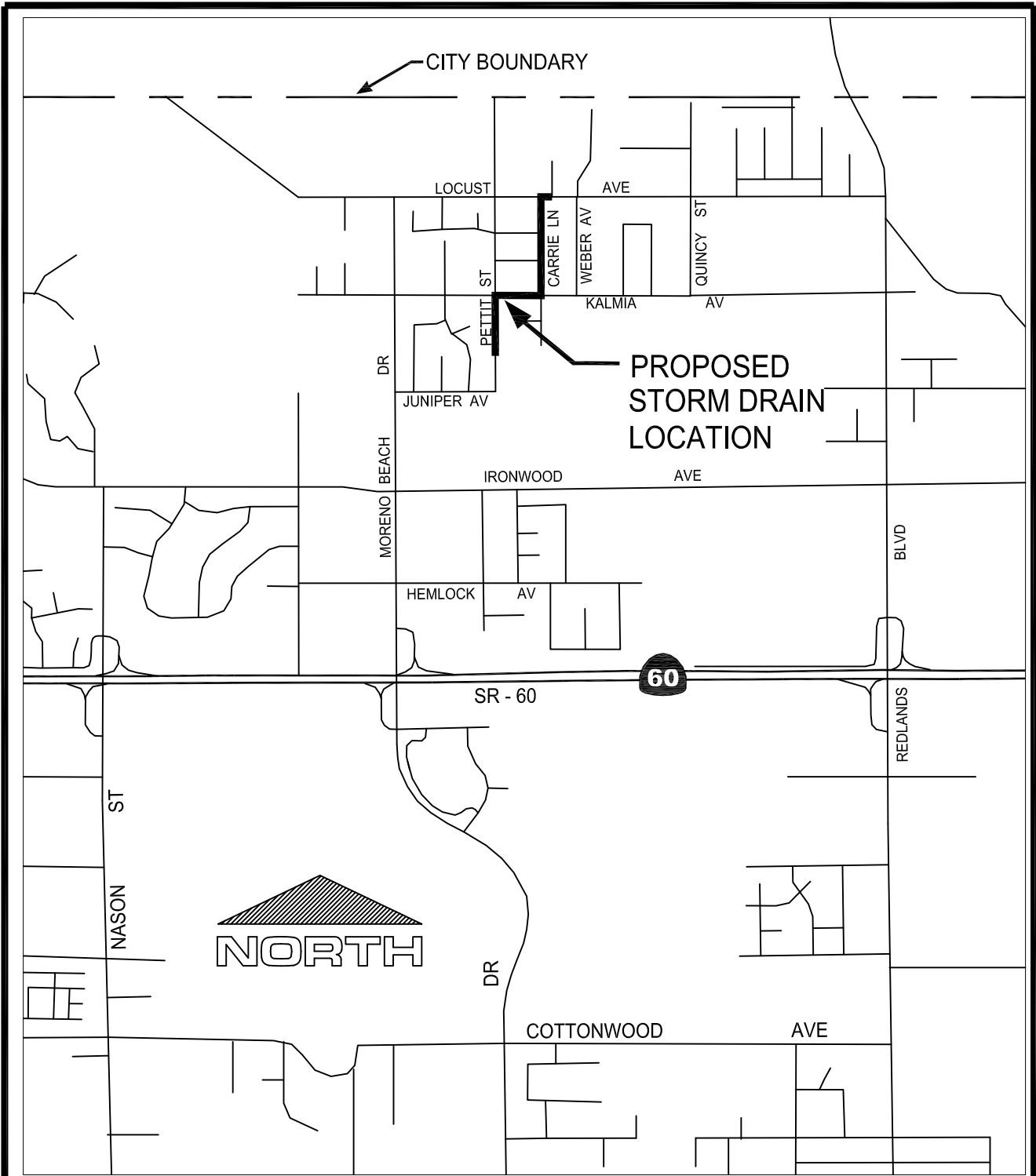
ATTACHMENTS

- Attachment 1: Location Map
- Attachment 2: Agreement for Professional Consultant Services with AKM Consulting Engineers

Prepared By:
Quang Nguyen, P.E.
Senior Engineer

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer



LOCATION MAP

Public Works Department
Capital Projects Division

SAN TIMOTEO FOOTHILL NEIGHBORHOOD
FLOOD PROTECTION PROJECT

ATTACHMENT 1

PROJECT NO. 804 0007 70 77

This page intentionally left blank.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

This Agreement is by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and **AKM Consulting Engineers**, a California corporation, hereinafter described as "Consultant." This Agreement is made and entered into effective on the date the City signs this Agreement.

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the work hereinafter described as "Project"; and

WHEREAS, the City has determined the Project involves the performance of professional and technical services of a temporary nature as more specifically described in Exhibit "A" (City's Request for Proposal) and Exhibit "B" (Consultant's Proposal) hereto; and

WHEREAS, the City does not have available employees to perform the services for the Project; and

WHEREAS, the City has requested the Consultant to perform such services for the Project; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional and technical services required for the Project;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

DESCRIPTION OF PROJECT

1. The Project is described as professional consultant design services for:

**SAN TIMOTEO FOOTHILL NEIGHBORHOOD FLOOD PROTECTION – MORENO
MASTER PLAN STORM DRAIN LINES K-1 AND K-4**

Project No. 804 0007 70 77

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit "B" attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit "C" attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of **\$349,788** in accordance with the payment terms provided on Exhibit "D" attached hereto and incorporated herein by this reference.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

TERM OF AGREEMENT

5. This agreement will terminate on **December 31, 2016** unless the termination date is extended by an amendment to the agreement.

TIME FOR PERFORMANCE

6. The Consultant shall commence services upon receipt of written direction to proceed from the City.

7. The Consultant shall perform the work described on Exhibit "A" in accordance with the schedule set forth in Exhibit "E" attached hereto and incorporated by this reference.

8. The Consultant and the City agree that the schedule in Paragraph 7 above represents their best estimates with respect to completion dates, and both the Consultant and the City acknowledge that it will not unreasonably withhold approval of the Consultant's requests for extensions of time in which to complete the work required of the Consultant hereunder.

9. The Consultant shall not be responsible for performance delays caused by others or delays beyond the Consultant's reasonable control, and such delays shall extend the time for performance of the work by the Consultant. Delays caused by non-performance or unjustified delay in performance by a subconsultant of the Consultant are not considered to be beyond the Consultant's reasonable control.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

10 (a) The Consultant agrees that the personnel, including the principal Project manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

SPECIAL PROVISIONS

11. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

12. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

13. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement. Unless hereinafter specified,

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

neither party shall be responsible for the services of the other or any subcontractor or sub-consultant employed by the other party.

14. The Consultant shall comply with all applicable federal, state, and local laws in the performance of work under this Agreement.

15. To the maximum extent allowable by law, the Consultant agrees to indemnify, defend, and save the City, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the negligence or willful misconduct of the City, MVHA and CSD, their officers, agents or employees.

16. (a) The Consultant shall procure and maintain, at its sole expense, throughout the term of this Agreement and any extension thereof, Professional Errors and Omission Insurance coverage in the form and substance and with carriers acceptable to the City. Such coverage limits shall not be less than \$1,000,000 per claim and aggregate.

(b) During the entire term of this Agreement, the Consultant agrees to procure and maintain General Liability Insurance in form and substance and with carriers

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

acceptable to the City at its sole expense to protect against loss from liability imposed by law for damages on account of bodily injury, including death therefrom, suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Consultant its sub-consultant or any person acting for the Consultant or under its control or direction, and also to protect against loss from liability imposed by law for damages to any property of any persons caused directly or indirectly by or from acts or activities of the Consultant or its subconsultants, or any person acting for the Consultant or under its control or direction.

(c) Such General Liability Insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum limits provided below:

	<u>General Liability</u>
Bodily Injury	\$1,000,000 per occurrence
Property Damage	\$ 500,000 per occurrence

A combined single limit policy with aggregate limits in the amount of \$2,000,000 will be considered equivalent to the above minimum limits.

(d) If the operation under this Agreement results in an increased or decreased risk in the opinion of the City Manager, then the Consultant agrees that the minimum limits hereinabove designated shall be changed accordingly upon request by the City Manager.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

(e) The Consultant shall procure and maintain, at its sole expense, and throughout the term of this Agreement and any extension thereof, Public Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

(f) The Consultant shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for both the Consultant and the City, MVHA and CSD against any loss, claim, or damage arising from any injuries or occupational diseases happening to any worker employed by the Consultant in the course of carrying out the Agreement.

(g) The City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents shall be named as additional insured on all policies of insurance except errors and omissions and worker's compensation.

(h) A Certificate of Insurance and appropriate additional insured endorsement evidencing the above insurance coverage shall be submitted to the City Clerk prior to the execution of this Agreement on behalf of the City.

(i) The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

"Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this general liability policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy."

(j) Insurance companies providing insurance hereunder shall be rated (A minus: VII - Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

(k) The terms of the insurance policy or policies issued to provide the above insurance coverage shall not be amended to reduce the above required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the said insurance is canceled,

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

the Consultant shall, prior to the cancellation date, submit to the City Clerk new evidence of insurance in the amounts established.

17. During the performance of this Agreement, the Consultant will not unlawfully discriminate against any employee or applicant for employment because of race, religion, creed, color, national origin, sex, or age. The Consultant will treat employees during employment without regard to their race, religion, creed, color, national origin, sex, or age.

18. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

19. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his/her designated representative, immediately upon request in both hard copy and electronic format, all documents, drawings, models, presentation materials, renderings, calculations, specifications, permits and permit-related documents, surveys, materials tests, geotechnical reports, etc., if available, developed to date for the City's project and any other City-provided documents, which shall become the property of the City for all purposes, which also includes the patent rights with respect to any discovery or invention which arises or is developed in the course of or under this Agreement, and copyrights. The Consultant may retain for its files, at its expense, copies of any and all materials, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement. It shall be understood that the City shall be the owner of all project-related documents and drawings at all times and during all phases of the project.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

The City reserves the right to ask for a hard copy and/or an electronic copy of the documents developed to date at any time during the period of this agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any, for professional services related to the City's project.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other projects without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

20. (a) The City may terminate this Agreement without cause on the part of Consultant by giving at least ten (10) days written notice to the Consultant. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

(b) Upon notice of termination, the Consultant shall deliver to the Public Works Director/City Engineer of the City or his/her designated representative, in both hard copy and electronic format, all documents, drawings, models, presentation materials, renderings, calculations, specifications, permits and permit-related documents, surveys, materials tests, geotechnical reports, etc., if available, developed to date for the City's project and any other City-provided documents, which shall become the property of the City. The Consultant may retain for its files, at its expense, copies of any and all materials, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement. It shall be understood that the City shall be the owner of all project-related documents and drawings, regardless of the completeness of said documents.

(c) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any, for professional services related to the City's project.

(d) The City agrees to hold the Consultant harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant. Consultant acknowledges that Consultant work product produced under this Agreement may be public record under State law.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

(e) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Consultant shall perform no further service(s) under the Agreement unless the notice of termination authorizes such further work.

21. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

22. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

23. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

24. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be otherwise required by law, such records will be available only to the City. Such records shall be maintained by the Consultant for three (3) years following completion of the services under this Agreement.

25. The City and the Consultant agree that, to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

26. The Consultant shall employ no City official or employee in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

27. Subject to the provisions of Section 19 (a) above, all plans, drawings, specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon demand by the City, be delivered to and become the property of the City for the limited use as set out above, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

28. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

29. If the funding source for this Agreement includes Federal funds, the following provisions must be complied with:

(a) Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60);

(b) the Copeland "Anti-Kickback" Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3);

(c) the Davis-Bacon Act (40 U.S.C. 276a to 276a-7) as supplemented by Department of Labor regulations (29 CFR Part 5);

(d) Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor regulations (29 CFR Part 5);

(e) Access by the grantee, the subgrantee, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions;

(f) Retention of all required records for three years after grantees or subgrantees make final payments and all other pending matters are closed;

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

(g) All applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15);

(h) Mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871);

(i) all requirements and regulations pertaining to reporting;

(j) in the case of occurrence of termination for cause, the City shall use all retained payments and any progress payments due for work completed before the termination to liquidate the Consultant's liability to the City. If the retained and unpaid amounts are insufficient, the City shall take steps to recover the additional sum from the Consultant.

SIGNATURE PAGE FOLLOWS

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. 804 0007 70 77**

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

AKM Consulting Engineers

BY: _____
City Manager

BY: _____

Date

TITLE: _____
(President or Vice President)

<p><u>INTERNAL USE ONLY</u></p> <p>APPROVED AS TO LEGAL FORM:</p> <p>_____ City Attorney</p> <p>_____ Date</p> <p>RECOMMENDED FOR APPROVAL:</p> <p>_____ Public Works Director/City Engineer</p> <p>_____ Date</p> <p>_____ Community & Economic Development Director</p> <p>_____ Date</p>

Date

BY: _____

TITLE: _____
(Corporate Secretary)

Date

- Attachments:
- Exhibit "A" – City's Request for Proposal
 - Exhibit "B" – Consultant's Proposal
 - Exhibit "C" – City's Responsibility
 - Exhibit "D" – Terms of Payment
 - Exhibit "E" – Consultant's Schedule

\\ZURICH\Shared\PublWork\CapProj\CapProj\PROJECTS\Quang - 804 0007 70 77 - San Timoteo Foothill Neighborhood Flood Protection\Design Phase\Consultant -\Agreement\AKM Agreement - San Timoteo SD.doc

**REQUEST FOR PROPOSAL
FOR PROFESSIONAL CONSULTANT DESIGN SERVICES**

**FOR SAN TIMOTEO FOOTHILL NEIGHBORHOOD FLOOD PROTECTION
MORENO MASTER PLAN STORM DRAIN LINES K-1 AND K-4
PROJECT NO. 804 0007 70 77**

I. INVITATION

You are hereby invited to submit a Proposal for Professional Consultant Design Services associated with the San Timoteo Foothill Neighborhood Flood Protection – Moreno Master Plan Storm Drain Lines K-1 and K-4.

Three (3) copies (one of the copies shall be unbound and paper clipped, with no tabs, holes, perforations, or cardboard inserts, suitable for copying with an automatic-feed copy machine) of your Proposal shall be submitted **before 5:00 p.m., December 12, 2013**, addressed to City of Moreno Valley, Capital Projects Division, 14177 Frederick Street (hand delivery), P.O. Box 88005, Moreno Valley, California 92552-0805 (mail delivery), Attention: Quang Nguyen, Senior Engineer, P.E.

II. GENERAL PROJECT DESCRIPTION

This project is to design and construct a storm drain system in the San Timoteo Foothill Neighborhood to mitigate frequent flooding and minimize flood related damages to public roads and private properties. The San Timoteo Foothill Neighborhood, which is the area generally bounded by Locust Avenue on the north, Juniper Avenue on the south, Pettit Street on the west and Weber Avenue on the east, has experienced frequent flooding during storm events. Repeat flooding has damaged local streets and private properties, disrupted local traffic and school bus routes, and disrupted the delivery of public and utility services to the area. Flooding occurs due to the lack of an adequate surface runoff conveyance system in the area. The proposed storm drain system is to be installed within local roads starting from Locust Avenue, along Carrie Lane to Kálmia Avenue, along Kalmia Avenue to Pettit Street, then along Pettit Street heading south to connect to the existing storm drain in Pettit Street just north of Juniper Avenue. This proposed storm drain system is identified as storm drain Lines K-1 and K-4 in the Moreno Master Drainage Plan. Applicable street improvements will also be necessary to convey the surface runoff into the proposed storm drain system. These improvements will provide a flood protection level up to a 100-year storm event for the area.

III. PROJECT BUDGET AND SCHEDULE

The approved budget is \$2,000,000 which is to cover all costs (soft costs and hard costs) for this project. The project receives federal grant funding in the amount of \$1,422,000 under the Hazard Mitigation Grant Program (HMGP) and local matching funds from the Riverside County Flood Control and Water Conservation District (RCFC & WCD) in the amount of \$500,000 from the Moreno Master Drainage Plan fees. The project is partially funded by the Federal Emergency Management Agency (FEMA) through the HMGP. All work must meet the RCFC & WCD requirements.

A copy of the HMGP Grant Application is available on CD. To request a copy, please call the City of Moreno Valley, Capital Projects Division, at 951.413.3130.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

The Consultant shall be required to meet or exceed the following timeline for this project:

Notice to Proceed:	January 2014
35% Plans Complete:	May 2014
Project Environmental Clearance Complete:	July 2014
Right-of-Way Engineering Complete:	August 2014
80% PS&E Complete:	August 2014
All Permits Complete and Approved:	October 2014
Right-of-Way Deeds Recorded by:	October 2014
100% PS&E Complete:	October 2014
Advertise and Award Construction Contract:	November 2014–February 2015
Construction:	March 15 – December 2015

IV. SCOPE OF SERVICES

The Consultant shall complete various tasks involved in planning, right-of-way engineering, right-of-way acquisition, permitting and environmental clearance, Plans/Specifications/ Engineer's Estimates (PS&E) preparation, and bidding and construction support as shown, but not be limited to, in the list below. Be advised that the following is a general description of the scope of services. The Consultant shall anticipate any additional coordination or scope to meet the project goals and objectives in their proposal.

Phase 1: 35% Level Completion

The Phase 1 shall include, but not be limited to, the following tasks:

1. Attend the kick-off meeting, monthly PDT meetings, and other meetings with affected agencies, businesses or residents as required throughout the project duration. Prepare meeting agenda as required.
2. Conduct field review and evaluate existing drainage patterns and facilities to obtain enough information for the design.
3. Perform survey and prepare base map, including field edits.
4. Evaluate all existing sidewalk, access ramp, and pavement surfaces within project limits for ADA compliance.
5. Research and identify right-of-way and/or easement needs and prepare documents and right-of-way plans.
6. The 35% plans shall contain enough information to determine the required right-of-way.
7. Investigate existing utilities to identify any utility conflicts and coordination with utility owners to obtain adjustment and/or relocation, including preparing and mailing 1st Utility Notices to obtain as-built plans. The Consultant shall pothole all underground utilities to determine the location, depth for clearance, connection points, or conflicts for any underground improvements such as sewer lines, storm drains, gas lines, waterlines and other utilities.
8. Coordinate with all affected agencies, including the RCFC & WCD, Caltrans, RTA, homeowner associations, etc., to complete the required tasks. Consultant to obtain specific approval of Storm Drain Alignment Concept Design from Flood Control as part of 35% Design.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

9. Determine requirements for various permits necessary for the project.
10. Prepare, process, and file CEQA documentation and obtain environmental clearance.
11. Identify and evaluate all existing improvements within the project area that affect the proposed project scope of work.
12. Prepare construction traffic control plan with can be included in the bid documents.
13. Incorporate Santa Ana Region Low Impact Development (LID) guidance and standards for transportation project requirements with concurrence of City staff.
14. Complete Project Summary Memorandum for acceptance by the City.
15. Prepare 35% Plans based on the approved Project Summary Memorandum, with construction cost estimates.

Upon successful completion of the Project Summary Memorandum, 35% Plans, and acceptance of environmental documentation, the City may issue written authorization to proceed with Phase 2 or terminate the contract.

Phase 2: 100% Level Completion

The Phase 2 shall include, but not be limited to, the following tasks:

1. Prepare storm drain construction plans with submission for review at 80%, 100%, and final design at the Mylar stage.
2. Prepare Specifications with submission for review at 80%, 100%, and final design at the Mylar stage.
3. Prepare Engineer Estimates with submission for review at 80%, 100%, and final design at the Mylar stage.
4. Coordinate design plans, prepare and submit permit application to the RCFC & WCD for review and approval, and obtain the encroachment permit from the RCFC & WCD for storm drain connection.
5. Prepare and submit permit applications to all applicable agencies and coordinate to obtain all required permits.
6. Prepare right-of-way and/or easement documents as required, and coordinate and negotiate to obtain all required right-of-way and/or easements.
7. The final PS&E shall be stamped and signed by the Design Consultant Civil Engineer, licensed to practice in the State of California, who supervised this project's PS&E preparation.
8. Prepare and submit Storm Water Pollution Prevention Plan (SWPPP) for approval in accordance with City requirements.
9. Prepare 2nd, 3rd and final utility notices and coordinate with utility companies for relocation of interfering utilities.
10. The Consultant shall provide an adjustment of final design plans and

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

corresponding documents to reduce the scope of work to match available budget in accordance with City-specified priorities.

Upon City's approval of the PS&E, the City may issue written authorization to the Consultant to proceed with Phase 3 or terminate the contract.

Phase 3: Advertising, Bidding and Construction Support

The Phase 3 shall include, but not be limited to, the following tasks:

1. Provide responses to bidders' questions.
2. Prepare and issue addenda if required due to omissions or conflicts in the design at no additional charge to the City.
3. Assist City staff in evaluating and checking all bids per project requirements and established contract law, as well as checking references and licenses of bidders.
4. Draft City Council Staff Report for award of construction contract and process the contract agreement with the lowest responsible bidder.
5. Attend the City Council meeting for award of the contract, available to answer questions, and defend the project.
6. Answer questions regarding the Technical Provisions, the design drawings or conflicts in the design during bidding process and pre-construction meeting.
7. Be available to answer questions regarding the Technical Provisions, the design drawings or conflicts in the design during the construction, and assist in reviewing and issuing Contract Change Orders (CCO) required, due to omissions or conflicts in the design, at no additional charge to the City.
8. Incorporate all red-line comments prepared by the Contractor and project inspector and prepare final ink on Mylar "as-built" record plans. The as-built/record drawings shall be signed by the Engineer of Record and provided to the City for approval prior to the release of the final progress payment.
9. Prepare and submit GASB 34 documentation in the City's format along with the record drawings.

DETAILED DESCRIPTIONS OF WORK ITEMS ARE AS FOLLOWS:

A. PROJECT SUMMARY MEMORANDUM

The Consultant shall prepare a Project Summary Memorandum, which is a shortened version of the City Project Report, and does not require signatures from all City departments. The Project Summary Memorandum shall be limited to a maximum of 15 pages. The Project Summary Memorandum shall include, but not be limited to, discussion of existing facilities, project objectives, any design deficiencies and exceptions with justifications, geotechnical, environmental, right-of-way or easement needs, utilities conflicts and relocation efforts, project costs, funding, and scheduling.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

B. ENVIRONMENTAL

The Consultant shall identify all environmental concerns for the specific improvements and coordinate with the City and other applicable agencies for requirements to complete the environmental process. The City's Community and Economic Development Department, Planning Division, will make the environmental determination.

The Consultant shall perform all work and coordination, conduct and attend meetings, and prepare all environmental documents, special studies, reports, permit applications, and other materials to obtain environmental clearance through all applicable agencies for the project.

The environmental procedures shall be in compliance with CEQA requirements.

C. SURVEYING

The Consultant shall perform all surveys and survey-related services necessary for engineering design of specific proposed improvements, including, but not limited to:

1. Conduct street surveys, utility surveys, drainage facility surveys, boundary surveys, lot surveys, and property line surveys to obtain sufficient information for engineering design of the proposed improvements and right-of-way and or easement acquisition process if required.
2. Prepare topographic base maps containing all surface features and needed elevations. Topography shall include, but not be limited to, all features within the right-of-way and outside the right-of-way as needed to such limits that would provide adequate and accurate data for the design.
3. Establish uniform stationing on street centerline and storm drain line, increasing northerly and easterly.
4. Establish a minimum of two (2) temporary benchmarks on the project.

D. AUTOCAD DRAWINGS

The topography map shall be set up with the following guidelines:

1. Drawing scale shall be: 1" = 20' or 1" = 40' horizontal and 1" = 2" or 1" = 4' for vertical profiles.
2. Lettering style shall be Arial and sizes shall correspond to standard scales. The latest City Title Block, which will be supplied by the City, shall be used.

E. GEOTECHNICAL

The Consultant shall perform all geotechnical services necessary for engineering design of specific proposed improvements, including but not limited to:

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

1. Perform subsurface exploration and analysis, including in-place moisture and density tests, laboratory maximum density and optimum tests, sieve analysis, R-value determination, direct shear tests, consolidation or collapse tests, and other required tests.
2. Review of existing geotechnical/geologic maps, reports or other related documents.
3. Provide geotechnical evaluation and recommendations on, including but not limited to, pipe bedding, trench backfill, pavement restoration design, environmental concerns, removal of unsuitable materials, etc.
4. Perform investigation on the existing pavement conditions to include pavement coring and soil borings and sampling. Pavement corings and soil samples in sufficient quantities shall be taken and tested to determine R-values and structural pavement sections to be considered for the project.
5. Prepare field and final geotechnical reports and logs of exploratory borings and results of laboratory testing.
6. Prepare scale plans showing locations and identifications of the borings and other required geotechnical information.
7. All in-place/laboratory tests, sampling, and reports shall be performed and prepared in accordance with Caltrans and other applicable agency procedures, policies, regulations, requirements, and formats.
8. Potholes in paved areas shall be repaired per City Standard Plan No. 602, A through E; however, potholes within the proposed pavement construction area may be considered for an alternate repair treatment, at the discretion of the City.
9. It will be the responsibility of the Consultant to notify Underground Service Alert prior to the start of any subsurface exploration work. The Consultant shall submit a traffic control plan to the City for review and obtain a permit to operate and conduct explorations within the public right-of-way.
10. The Consultant shall obtain all necessary permits to enter and construct on private properties from property owners, as required by the City, for all research such as surveying, geotechnical, and other design-related work.

F. RESEARCH OF RECORD INFORMATION

The Consultant shall perform all research of utility company, and other agency records as necessary to secure all the information, clearances, and/or plan review services required to identify, locate, and accurately layout all underground improvements and easements, centerline, right-of-way, property lines, curb and gutter, intersecting streets, cross gutters, and other ancillary items that may affect the project.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

The City will provide copies of available pertinent City Records, such as survey ties, benchmarks, and street plans that the City knowingly has in its possession.

G. UTILITY COORDINATION

The Consultant shall contact all utility agencies providing service within the City and obtain utility maps and records for the project area. Field reviews to locate all surface utilities that are impacted by the project shall be performed. A summary of the research findings, anticipated conflicts, relocations or adjustments shall be included in the Project Summary Memorandum. Continuing coordination shall be performed up to the Notice to Relocate prior to construction.

The Consultant shall provide utility notices to all utility companies with facilities within the limits of the project, such as, but not limited to: Eastern Municipal Water District (EMWD), Southern California Gas Company, (GAS), Southern California Edison (SCE), Time Warner, and Verizon. Said notices will inform the utility of their need to relocate their facilities prior to construction or to adjust their facilities to grade after completion of the street paving.

The Consultant shall directly submit to **each utility company their required number of preliminary and final plan sets that provide the location, elevation of the utility, and the elevation of the improvement with the conflict area clouded to show the utility companies the areas that conflict.** The Consultant shall coordinate with the utilities for relocation of their facilities if required. The Consultant shall provide the utility companies with three (3) relocation notices. The City shall supply the Consultant with the required format for the utility notice in a Microsoft Word format. The Consultant shall be responsible to complete the document. The Consultant shall also be required to coordinate with the utility companies the scheduled relocation of the utilities prior to the start of construction.

The utility notices are as follows: 1st Utility Notice for City Improvements, Preliminary Project Notice; 2nd Utility Notice for City Improvements, Prepare to Relocate; 3rd Utility Notice for City Improvements, Notice to Relocate; and 4th Utility Notice for City Improvements, Notice to Relocate Immediately. The City will supply the Consultant with the required forms for the utility notices in a Microsoft Word format.

The Consultant shall compose all utility letters and forms. The City will print the utility notices on City letter head and the Consultant shall pick-up and mail the letters, Certified, with Return Receipt requested back to the City. A copy of the Certified Mail article numbers shall be provided to the City within a few days of mailing. The Consultant shall document on the return receipt card the project number, project name, and name of the Consultant. The Consultant shall call the utility companies, as necessary, until a written response form is received from each potential conflicting utility.

The Consultant shall prepare and maintain a detailed utility coordination log that shall be updated on regular basis and be presented and discussed at Project Development Team (PDT) meetings.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

The Consultant shall coordinate with the utility companies for the relocation of any of their facilities that conflict with the proposed improvements and continue coordination until the utility conflict is resolved.

H. UTILITY POTHOLING

The Consultant shall pothole, or engage a construction service to pothole, all underground utilities to determine the location, depth for clearance, connection points, or conflicts for any underground improvements such as sewer lines, storm drains, gas lines, waterlines and other utilities. The Consultant shall pothole at least an adequate number of water and sewer laterals at appropriate locations to establish an average lateral depth. The Consultant shall submit to each utility company a preliminary set of plans that provide the location and elevation of the utility with the conflict areas clouded to show the utility companies the areas of conflict with the proposed improvements. The potholing information and plan shall be submitted to the City after completion of that task. If an area of possible conflict was not potholed, the Consultant shall pothole the area to verify no conflicts, at no cost to the City.

Potholes in paved areas shall be repaired per City Standard Plan No. 602, A through E; however, potholes within the proposed pavement construction area may be considered for an alternate repair treatment, at the discretion of the City. Program Manager.

It shall be the responsibility of the Consultant to notify Underground Service Alert prior to the start of any subsurface exploration work. The Consultant shall submit for City Review a traffic control plan and obtain a permit to operate and conduct any potholing within the public right-of-way.

The Consultant shall obtain all necessary permits to enter and construction private properties from property owners, as required by the City, for all research such as surveying, geotechnical, and other design-related work.

I. RIGHT-OF-WAY

A portion of the proposed alignment of the storm drain is along Carrie Lane from Locust Avenue to Kalmia Avenue. Currently, Carrie Lane is a private road. As part of this project's scope of services, the consultant will be required to complete the right-of-way engineering and documents and assist the City in accepting Carrie Lane into the City's public roadway system for the construction of the storm drain.

Additional right-of-way may need to be acquired and may include fee simple interest, permanent easements, temporary easements, and right of entries, which are collectively termed as right-of-way.

The Consultant shall take the lead, coordinate, manage, and be responsible for comprehensive full service right-of-way acquisition services based on a "cradle to the grave" approach within the project timeline. These services shall include the following major elements:

1. Identify all needed right-of-way based on project alternatives in order to satisfy the "maximum public benefit with the least private injury" principle.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

2. Perform utility easement research/coordination and identify all utilities that have prior rights.
3. Prepare all right-of-way related documents.
4. Provide title reports and/or litigation guarantees for each of the required easement.
5. Provide full-service appraisal services in conformance with the Uniform Standards of Professional Appraisal Practice (USPAP) and the Code of Professional Ethics of the Appraisal Institute and appraiser support during the acquisition process.
6. Provide comprehensive settlement negotiations and escrow services including preparation of all related documents until required deeds are recorded.
7. Coordinate eminent domain actions if required. If eminent domain should occur, the City and Consultant will negotiate the scope of services and fees.

The Consultant shall be responsible to ensure that all necessary right-of-way services are provided for the complete design of the project to meet all applicable Federal, State, and local requirements. The acquisition process shall be conducted in accordance with Caltrans procedures, California Civil Code, and the California Relocation Assistance law adopted by resolution of the City Council of the City of Moreno Valley on August 19, 1986, including any changes to state and federal law since the adoption.

The following is a list of services that may be needed over the course of the contract. This list is not intended to be all-inclusive, as other services may be required:

- a. Coordinate the preparation of site surveys relating to real properties that are required for public purposes.
- b. Identify the needs for new rights-of-way, permanent easements, temporary construction easements, and rights-of-entry. Conduct alternative analysis if necessary.
- c. Analyze title reports/cases, contracts, judgments, court records, and other documents to evaluate the legal status and effect upon title of various liens, restrictions, and encumbrances; perform research for all outstanding offers of dedication.
- d. Prepare a separate right-of-way plan showing existing right-of-way, areas requiring acquisition, assessor's parcel numbers, zoning, owner's name, addresses, type of business, property lines, footprints of buildings, setback distances from right-of-way to buildings, vegetation, existing and proposed improvements in the taking areas, existing driveways, and easements across the property.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

- e. Prepare offers, summary statements, contracts, agreements, leases, correspondence, deeds, re-conveyances, legal descriptions, plats, certificates of acceptance, and other instruments for each parcel acceptable to the City (and applicable utility companies) for conveyance of marketable title interests and for accurate representation of right-of-way necessary for construction of the project.
- f. Prepare all documents required for temporary construction easements and rights-of-entry.
- g. Prepare preliminary estimate of the market value of real property and prepare written reports.
- h. Consult with the necessary City departments regarding real property matters.
- i. Assist in preparing Staff Reports for City Council to authorize various right-of-way related matters such as authorization for negotiation, execution of purchase agreements, adoption of resolution of necessity, etc.; and make presentation at the City Council Meetings.
- j. Negotiate for purchase, lease, voluntary dedication or donation of real property.
- k. Provide staking as needed during the appraisal process and/or negotiation process to establish take area boundaries.
- l. Provide project improvements alternate analysis during right-of-way negotiations phase as necessary.
- m. Conduct regular status/coordination meetings during the right-of-way phase.
- n. Record documentation at the County Recorders Office.
- o. Provide independent review of property surveys, plats, and legal descriptions.
- p. Review draft appraisal reports for completeness and accuracy.
- q. Maintain records, databases, maps, deeds, and other documents.
- r. Provide relocation assistance to occupants of real property acquired for projects.
- s. Conduct research at the County Assessors Office.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

J. FORMAT FOR PLANS AND SPECIFICATIONS

1. The PS&E must conform to the City of Moreno Valley's standards and format. The Consultant shall provide clear, concise, and complete plans and profiles, which shall include, where applicable, the title sheet, street improvement, storm drain, traffic signal, striping and signing, traffic control, and detail and cross section plans. The scales for the plans are 1" = 20' or 1" = 40'. The City of Moreno Valley's standard title block shall be used for all sheets.

The Consultant shall indicate on the plans the stationing of all intersections, beginning and end of curves, and breaks in alignment. Survey monuments and monument wells shall be noted on the plans for preservation. Missing monuments shall be installed per City Standards. Monuments are to be placed in all street intersections, public and private. The setting or marking of the actual monuments shall be done under the direction of a licensed land surveyor at the end of construction, and a Record of Survey shall be filed with the County and copy shall be submitted to the City. These items must be quantified and shown in the PS&E. The Consultant shall note that the Contractor shall be responsible for replacing disturbed monuments or ties after construction is completed.

2. Street Improvement Plans shall include, but not be limited to: All existing surface improvements, driveways and entrances, edge of pavement, curbs, gutters, cross gutters, sidewalks, access ramps, mailboxes, landscaping, walls and fences, water valves and meters, fire hydrants, gas valves, sewer manholes, storm drain manholes, telephone manholes, electrical manholes, electrical cabinets, power poles, street lights, traffic loops, signs, catch basins and other storm drain facilities, utility lines (both underground and overhead), right-of-way and lot lines, and all other surface features that could be affected by the new construction within the project limits. Existing improvements shall be shown in a half-tone or dashed background format to distinguish them from the new improvements.

New improvements shall include, but not be limited to: Construction notes and legends, curbs, gutters, sidewalks, street drainage facilities, street lighting (where required), all facility or structure adjustments to be performed by the Contractor (including water valves and meters, gas valves, sewer manholes, storm drain manholes, telephone manholes, electrical manholes, etc.), street centerline and top of curb profiles, all relocations, all reconstructions or modifications, and all other proposed improvements shall be shown in full tone or highlighted with appropriate construction notes, detail references or standard plan references identified. All access ramps shall be upgraded to comply with the latest ADA standards. Construction notes shall be arranged such that the first notes are "protect in place" followed with "removal" notes and end with the actual work. Notes of like work shall be grouped together.

3. Storm Drain Plan preparation shall include hydrology, hydraulic, and structural calculations in conformance with standards of the Riverside County Flood Control and Water Conservation District, with requirements for review

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

and approval and connection permitting by the District. In the absence of standards by the District, Los Angeles County design standards may be considered.

The Consultant shall provide necessary plan and profile sheets with hydraulic grade lines, calculations for pipe sizing, detailing of connections, catch basins, lateral pipes, for all portions of the proposed drain or culvert.

The work shall include, but not be limited to: Determinations of water surface, hydraulic grade line (HGL), velocities, catch basin and lateral pipe sizing with structural "D" value determination, and all other calculations as required for a complete storm drain and/or culvert design.

4. Striping and Signing Plans shall include but not be limited to: Existing and proposed access ramp locations and types, curbs, driveways, existing and proposed street striping, street and sign legends, crosswalks, dimensions for traffic lane widths, traffic signal loops, and all other ancillary street markings and signing that may exist, or may be required to be placed or removed to complete the new traffic signal and associated street improvements. The signing notes, painted striping notes and thermoplastic marking notes are to be grouped together.
5. Traffic Control Plans shall address handling of traffic, long-term closures, and representative construction signage for the major elements in logical stages of the project construction and shall be in accordance with the latest California Manual on Uniform Traffic Control Devices (MUCTD) and/or Work Area Traffic Control Handbook (WATCH) Manual, as appropriate.
6. Detail Plans shall be provided where standard plans are not available or where specific dimensioning cannot be readily shown on the improvement plans or provided by description in the project specifications or as needed to insure project constructability.
7. All drawings shall be prepared with AutoCAD Land Development software or design software that is compatible with the Land Development software approved by the City. The design shall be plotted using permanent drafting ink on Mylar, and drafted on twenty-four inch by thirty-six inch (24" x 36"). The Consultant is required to put hanging file tabs on all Mylar sheets. The final Plans shall be signed by a Civil Engineer registered in the state of California. No "stick-ons" will be allowed.

The originals and the electronic data of these drawings are to be considered to be the property of the City at all times, and shall be submitted to the City, along with a CD-RW disk in AutoCAD Land Development format, upon completion or as otherwise directed by the City. The electronic data shall also include all survey data and point information.

8. Specifications - The City will provide the Consultant with its boilerplate Specifications and General Technical Provisions in the current version of Microsoft Word for Windows format. The Consultant shall be responsible for compiling the project Specifications, signed by a Civil Engineer registered in

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

the State of California, which is complete and ready for bidding purposes. The latest edition of the Greenbook (Standard Specifications for Public Works Construction and subsequent amendments) shall be used on the project, except for traffic signals, striping, and traffic signs. The technical portion of the Caltrans Standard Specifications shall be used for the traffic signals, striping, and traffic signs.

K. SUBMITTALS TO (CITY, AGENCIES, UTILITIES, ETC.)

1. The Consultant shall submit four (4) sets of bond copies of the design drawings with each submittal for checking to the City, along with the previous redlined check prints. The design drawings shall be as complete, accurate, and error-free as possible before plan checking is considered, in order to reduce the number of plan checks required and related costs therefore to the City and Consultant. Incomplete submittals may be rejected.
2. The Consultant shall submit two (2) sets of any reports, such as geotechnical and/or quantity calculations with each submittal for checking to the City, along with the previously checked reports. Two (2) sets of Project Summary Memorandum, signed by a Civil Engineer registered in the State of California, shall be submitted for checking.
3. The Consultant shall, at no cost to the City, correct errors, omissions, and unworkable and/or improper design/drafting on the original drawings, which are discovered subsequent to the completion of the plan checking process.
4. The Consultant shall submit three (3) sets of bond copies of cross sections along with each submittal of the design drawings for plan checking.
5. The City shall receive a copy of all transmittals, submittals, and letters sent to utilities and agencies regarding the project.

L. ESTIMATE OF QUANTITIES AND COST

The estimated quantities shall itemize all new, remodeled, reconstructed, relocated improvements, but not be limited to: Itemizing all removals, relocations, water pollution control, storm drain, mailboxes, earthwork, sub-grade preparation, cold milling, aggregate base, asphalt concrete (AC) paving, Portland Cement Concrete (PCC) sidewalk, PCC curb and gutter, driveway approaches, survey monument wells, raising manholes, water valve lids, traffic loops, painting of pavement legends and striping, signs, traffic control, raised pavement markers, and project signs. The estimated quantities shall be arranged in chronological order of construction and shall contain all the information necessary to prepare the Engineer's Estimate in the format specified by the City or associated agencies. The Engineer's Estimate and bid schedule shall be broken out by funding source or as otherwise directed by the City.

Computations showing estimated quantities, costs, and sum totals shall be submitted to the City for review. Submission of computations does not relieve the Consultant's responsibility of submitting an accurate estimate of quantities. The Consultant shall, at the 35%, 80%, 100%, and Final Plan stages, submit estimated

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

quantities calculated and listed by plan sheet, for review by the City. The Consultant's final construction cost estimate shall be based upon, and in agreement with, the final estimate of quantities.

M. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

The Consultant shall prepare a Storm Water Pollution Prevention Plan in accordance with either the San Jacinto Construction Activity Permit or the General Construction Activity Permit depending on the permit area of coverage. The Consultant shall prepare the Notice of Intent (NOI) and process the SWPPP for approval through the Regional Water Quality Control Board and other appropriate authorities and agencies.

N. COPIES OF CONTRACT DOCUMENT PACKAGE

The City will have copies of the Contract Document Package reproduced for distribution during bidding.

O. OWNER OF ORIGINAL DRAWINGS, DOCUMENTS, AND OTHER INFORMATION

The City will be the owner of all original drawings, documents, and digital information for all applicable phases of this agreement. All digital and or computer generated drawings shall be the property of the City and a copy shall be submitted to the City on a CD-RW disk.

P. PROJECT SCHEDULE

The Consultant shall prepare a project schedule and provide hard copies for reports and staff usage. The project schedule shall be updated regularly and handed out during the PDT meetings.

The project schedule shall be divided into tasks and subtasks in full detail showing their critical path for expeditious project completion. The schedule shall include, but is not limited to, planning, right-of-way acquisition, environmental clearance, permitting, design, advertising, construction, and any other applicable tasks. All the required time for project reviews and processing and associated agency and utility contacts and coordination shall be shown. Critical task items such as permit applications, environmental, City Council meetings, appraisals, negotiations, utility noticing, notices to proceed, notice of completion, as-built plan preparation, and GASB 34 documentation shall also be shown.

Q. PROJECT MEETINGS

The Consultant shall be responsible to schedule all necessary project meetings, prepare the meeting agenda, send invitation letters to required attendees, attend and chair the meetings. At the conclusion of each meeting the Consultant shall prepare and distribute meeting minutes, within three (3) working days, to the satisfaction of the City. The project meetings shall include, but not be limited to:

1. Pre-Design (kick-off) meeting to including all sub-consultants, affected utilities, City staff, funding staff and other interested parties to the work.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

2. Set and facilitate Project Development Team (PDT) meetings on a monthly (or higher frequency if necessary) basis.
3. Conduct right-of-way status and coordination meetings.
4. Conduct meetings with property owners and schedule City staff participation as needed.
5. Conduct meetings with affected stakeholders, utility companies, and other agencies as needed.
6. Conduct field meetings with City staff, residents, and utility representatives as required over the course of design.
7. The Consultant shall facilitate the bidding process and assure that all Federal, State and local contracting laws have been met.

V. CONSULTANT'S PROPOSAL AND COMPENSATION

The Consultant's Proposal shall be limited to no more than 30 pages. The page limits exclude a cover letter of up to two pages, resumes up to two pages per person, dividers, certificates, and appendices. Resumes, billing rates, project schedule, resource matrix, certificates, and other required forms shall be attached in the appendices. Proposals failing to provide sufficient information and assurances of performance to accurately assess each category of the required services and failing to comply with requirements and conditions of the Request for Proposal will not be given further consideration.

At a minimum, the Proposal shall include the following sections:

- A. **Project Understanding:** This section should clearly convey clear understanding of the nature of the work, identification of major project issues, and proposed solutions thereof, from both the Consultant and the sub-consultants (consultant team).
- B. **Approach and Management Plan:** This section provides the consultant team's proposed approach and management plan for providing services. Include an organization chart showing proposed relationship among consultant team/staff as well as any other parties that may have significant role in the delivery of this project.
- C. **Qualifications and Experience:** Provide qualifications and experience of the team for this project. Emphasize the specific qualifications and experience from projects similar to this project for the key team members including references. Identify and provide in-depth information for the proposed project manager's qualifications, track record and relevant experience.
- D. **Staffing Plan:** Discuss staffing plan, the workload, both current and anticipated, for all key team members, and their capacity to perform the requested services according to the proposed schedule. Discuss the firm/team's approach for completing the services required for this project within budget and schedule.
- E. **Work Plan and Schedule:** Include a description of how each task of the project will be conducted, identification of deliverables for each task and implementation

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

schedule. The work plan should include sufficient detail to demonstrate a clear understanding of the project. Discuss the consultant team's approach for completing the project.

- F. **Quality Control and Assurance:** Discuss QA/QC proposed for each phase/deliverable for this project, including various independent plan check reviews and 95% plan biddability/constructability/claims avoidance reviews.
- G. **Additional Relevant Information:** Provide additional relevant information that may be helpful in the selection process (not to exceed two pages).

The Consultant's Proposal shall include the following statements:

1. A statement that this Request for Proposal shall be incorporated in its entirety as a part of the Consultant's Proposal.
2. A statement that this Request for Proposal and the Consultant's Proposal will jointly become part of the Agreement for Professional Consultant Services for this project when said Agreement is fully executed by the Consultant and City Manager of Moreno Valley.
3. A statement that the Consultant's Services to be provided, and fees therefore, will be in accordance with the City's Request for Proposal except as otherwise specified in the Consultant's Proposal under the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL."
4. A single and separate section with the heading "ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL" containing a complete and detailed description of all of the exceptions to the provisions and conditions of this Request for Proposal upon which the Consultant's Proposal is contingent and which shall take precedent over this Request for Proposal for Professional Consultant Services.
5. A statement of qualifications applicable to this project including the names, qualifications and proposed duties of the Consultant's Staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses, telephone numbers and email addresses of the appropriate persons whom the City could contact. If one or more of the Consultant's staff should become unavailable, the Consultant may substitute other staff of at least equal competence only after prior written approval by the City.
6. A resource allocation matrix *must* be submitted with the Proposal. The resource allocation matrix must list detailed tasks in rows and the appropriate individual (Job Title Only) as well as the number of hours that these individuals will be working on each task listed, will be included in adjacent columns. The resource allocation matrix and the project design schedule are required of both the primary consultant, as well as any sub-consultant. Failure to do so will result in the Consultant's Proposal being deemed

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

incomplete and it will not receive further consideration. The Title Reports shall be a separate line item under the right-of-way task.

The resource allocation matrix, in addition to any tasks the Consultant chooses to list, shall include but not be limited to meetings, Hydrology/Hydraulics Studies, Storm Water Pollution Prevention Plans, right-of-way investigations, As-Built Drawings, and GASB 34 documentation.

7. A rate schedule *must* be submitted with the Proposal. The rate schedule must list titles, names, roles, and hourly billing rates in rows. A statement that said hourly rate schedule is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred shall also be included. All extra work will require prior approval from the City.
8. A statement of sub-consultant's (include relief personnel) qualifications applicable to this project including the names, qualifications and proposed duties of the sub-consultant's staff to be assigned to this project; a listing of recent similar projects completed including the names, titles, addresses, and telephone numbers of the appropriate persons whom the City could contact.

A statement that the Consultant acknowledges and understands that the Consultant will not be allowed to change the sub-consultant without written permission from the City.
9. A statement that all charges for Consultant services is a "Not-to-Exceed Fee" which must include conservatively estimated reimbursable expenses, as submitted with and made a part of said Consultant's Proposal.
10. A statement that the Consultant will document and provide the results of the work to the satisfaction of the City. This may include preparation of field and final reports, or similar evidence of attainment of the Agreement objectives.
11. A statement that the Consultant will immediately document and notify the City of any defects or hazardous conditions observed in the vicinity of the project site prior, during, or after the construction work.
12. A copy of the Consultant's hourly rate schedule and a statement that said hourly rate schedule is part of the Consultant's Proposal for use in invoicing for progress payments and for extra work incurred that is not part of this Request for Proposal. **An itemized cost breakdown for the work described herein must be submitted in a separate sealed envelope as part of the Proposal submittal.** All extra work will require prior approval from the City.
13. A statement that the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.
14. A statement that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In a case of conflict

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

between federal, state or local laws or regulations the strictest shall be adhered to.

15. A statement that the Consultant shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this special project. All relevant records shall be retained for at least three years.
16. A statement that the Consultant shall comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276-a through a-7), and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code. Pursuant to the said regulations, entitled "Federal Labor Standards Provisions," Federal Prevailing Wage Decision" and State of California prevailing wage rates, respectively.
17. A statement that the Consultant shall comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.
18. A statement that the Consultant offers and agrees to assign to the City all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works or the subcontract. This assignment shall be made and become effective at the time the City tenders final payment to the Consultant, without further acknowledgment by the parties.
19. Complete "Disclosure of Lobbying Activities" (Form LLL – see attached).
20. Complete List of Subconsultants.
21. A statement that the Consultant agrees with all terms of the attached City Standard Consultant Agreement, which includes the provisions that must be complied with for this Federal funded project.

VI. GENERAL COMPLIANCE WITH LAWS AND WAGE RATES

The Consultant shall be required to comply with all federal, state, and local laws and ordinances applicable to the work. This includes compliance with prevailing wage rates and their payment in accordance with California Labor Code, Section 1775.

The Consultant is required to submit certified payrolls weekly. This applies to all applicable field personnel working on the project. In accordance with Section 1771.5 (b) (5) of the California Labor Code, the City will withhold payments when the payroll records are delinquent or inadequate.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

VII. FEDERAL EMPLOYEE BENEFIT

No member of, or delegate to, the Congress of the United States, and no Resident Commissioner shall be admitted to any share or part of the Agreement to the said project or to any benefit to arise from the same.

The Consultant shall complete and include the "Certification for Contracts, Grants, Loans, and Cooperative Agreements" and "Disclosure of Lobbying Activities" forms (attached) with the Proposal.

VIII. PAYMENT TO CONSULTANT

- A. This work is to be performed for a "Not-to-Exceed Fee."
- B. The Consultant shall provide a "Project Fee Schedule" indicating the fee for individual tasks with a "Not-to-Exceed Fee" which shall be the sum of all tasks by Part, phase, and milestone.
- C. Tasks shall include, but not be limited to, all Professional Consultant Services necessary to complete the work covered by this Proposal.
- D. **The City will pay the Consultant for work completed based on milestones completed and accepted by the City. These Milestones are:**
 - 1. Project Summary Memorandum complete.
 - 2. Environmental Clearance obtained.
 - 3. Phase 1, 35% Level Completion is complete.
 - 4. Phase 2, 100% Level Completion is complete.
 - 5. Legals/plats and appraisal reports are complete.
 - 6. Right-of-way negotiations and related services on a monthly basis.
 - 7. Project Bidding and Construction Support on a monthly basis.
 - 8. Any other additional authorized work on a task successfully completed and accepted basis.

The City shall make sole and final determination if a milestone as described above is complete and acceptable for payment.

- E. Invoices will specifically identify job title, person-hours, and costs incurred by each task.
- F. Reimbursement costs such as mileage, printing, telephone, photographs, postage and delivery, are to be included in the "Not-to-Exceed Fee."
- G. All tasks including labor and reimbursable costs such as printing, postage, and delivery shall have supporting documentation presented at the time payment is requested.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

- H. The City will pay the Consultant for all acceptable services rendered in accordance with the "Agreement for Professional Consultant Services."
- I. When the Consultant is performing, or is requested to perform, work beyond the scope of service in the "Agreement for Professional Consultant Services," an "Amendment to the Agreement" will be executed between the City and Consultant.
- J. The Consultant shall receive no compensation for any re-work necessary as result of the Consultant's errors or oversight.

IX. INSURANCE

- A. The Consultant shall provide Errors and Omissions Professional Insurance. Such coverage limits shall not be less than \$1,000,000 per claim and aggregate.
- B. The Consultant shall have Public Liability and Property Damage Insurance in the amounts as follows:

GENERAL LIABILITY

Bodily Injury	\$1,000,000	per occurrence
Property Damage	\$ 500,000	per occurrence

A combined single limit policy with aggregate limits in the amount of \$2,000,000 will be considered equivalent to the above minimum limits.

- C. The Consultant shall have Public Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment in the amount of not less than \$1,000,000.
- D. The Consultant shall have Workers' Compensation Insurance in the amounts as will fully comply with the laws of the State of California.
- E. A Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

"Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents are included as additional insured under this general liability policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers and employees and agents, under any third party liability policy."

- F. Insurance companies providing insurance hereunder shall be rated (A minus: VII - Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

- G. The terms of the insurance policy or policies issued to provide the above insurance coverage shall not be amended to reduce the above required insurance limits and coverage's nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the Agency, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the said insurance is canceled, the Consultant shall, prior to the cancellation date, submit to the City Clerk new evidence of insurance in the amount established.
- H. It is the consultant's responsibility to ensure that all subconsultants comply with the following: Each subconsultant that encroaches within the City's right-of-way and affects (i.e., damages or impacts) City infrastructure must comply with the liability insurance requirements of the City. Examples of such subconsultant work include soil sample borings, utility potholing, etc.

The "Application for Encroachment Permit" form, including "Application for Encroachment Permit Liability Insurance Requirements," is available in the Capital Projects Division and must be completed and submitted in full to the City. It is the Consultant's responsibility to ensure that all subconsultants submit the appropriate encroachment permit and insurance documentation at the same time that the Consultant's insurance documentation is submitted.

X. INDEMNIFICATION

- A. To the maximum extent allowable by law, the Consultant, when functioning in the capacity of a design professional, agrees to indemnify, defend, and save the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.
- B. The consultant, when not functioning in the capacity of a design professional, agrees to indemnify, defend, and save the City, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including injury to the Consultant's employees and all claims which arise from or are connected with the negligent performance of or failure to perform the work or other obligations of the Consultant under this Agreement, or are caused or claim to be caused by the negligent acts of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the sole negligence or willful misconduct of the City, MVHA, and CSD, their officers, agents or employees.
- C. The City agrees to indemnify, defend and save the Consultant and their officers, agents and employees harmless from any and all liability, claims, damages or

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

injuries to any person, including injury to the City's, MVHA's and CSD's employees and all claims which arise from or are connected with the negligent performance or failure to perform the services or other obligations of the City under this Agreement, or are caused or claim to be caused by the negligent acts of the City, MVHA and CSD, their officers, agents or employees, or its subcontractor(s) or any person acting for the City or under its control or direction; provided, however, that this indemnification and hold harmless shall not include any claims arising from the negligence or willful misconduct of the Consultant, its officers, agents or employees.

XI. TERMINATION FOR CONVENIENCE OF THE CITY

The City reserves the right to terminate the "Agreement for Professional Consultant Services" for the "convenience of the City" at any time by giving ten (10) days written notice to the Consultant of such termination and specifying the effective date thereof. All finished or unfinished drawings, maps, documents, field notes and other materials produced and procured by the Consultant under the said aforementioned Agreement is, at the option of the City, City property and shall be delivered to the City by the Consultant within ten (10) working days from the date of such termination. The City will reimburse the Consultant for all acceptable work performed as set forth in the executed Agreement.

XII. INDEPENDENT CONTRACTOR

The Consultant's relationship to the City in the performance of the Consultant's services for this project is that of an independent Contractor. The personnel performing the said Services shall at all times be under the Consultant's exclusive direction and control and shall be employees of the Consultant and not employees of the City. The Consultant shall pay all wages, salaries and other amounts due his employees in connection with the performance of said work shall be responsible for all employee reports and obligations, including but not necessarily restricted to, social security, income tax withholding, unemployment compensation, and Workers' Compensation.

XIII. CONTRACT

The Contract includes the Agreement for Professional Consultant Services, City's Request for Proposal, Consultant's Proposal, and Exhibits.

The Political Reform Act and the City's Conflict of Interest Code require that consultants be considered as potential filers of Statements of Economic Interest. Consultants, as defined by Section 18701, may be required to file an Economic Interest Statement (Form 700) within 30 days of signing a Consultant Agreement with the City, on an annual basis thereafter if the contract is still in place, and within 30 days of completion of the contract.

XIV. GENERAL CONDITIONS

- A. Pre-contractual expenses are defined as expenses incurred by the Consultant in: (1) preparing the Proposal; (2) submitting the Proposal to the City; (3) presentation during selection interview; (4) negotiating with the City any matter related to this Proposal; (5) any other expenses incurred by the Consultant prior to an executed Agreement.

**REQUEST FOR PROPOSAL FOR
PROFESSIONAL CONSULTANT DESIGN SERVICES
PROJECT NO. 804 0007 70 77**

The City shall not, in any event, be liable for any pre-contractual expenses incurred by the Consultant.

- B. The City reserves the right to withdraw this RFP at any time without prior notice. Further, the City makes no representations that any Agreement will be awarded to any Consultant responding to this RFP. The City expressly reserves the right to postpone reviewing the Proposal for its own convenience and to reject any and all Proposals responding to this RFP without indicating any reasons for such rejection(s).
- C. The City reserves the right to reject any or all Proposals submitted. Any Contract awarded for these Consultant engagements will be made to the Consultant who, in the opinion of the City, is best qualified.

XV. SELECTION CRITERIA

The Proposals will be rated/ranked according to the following criteria:

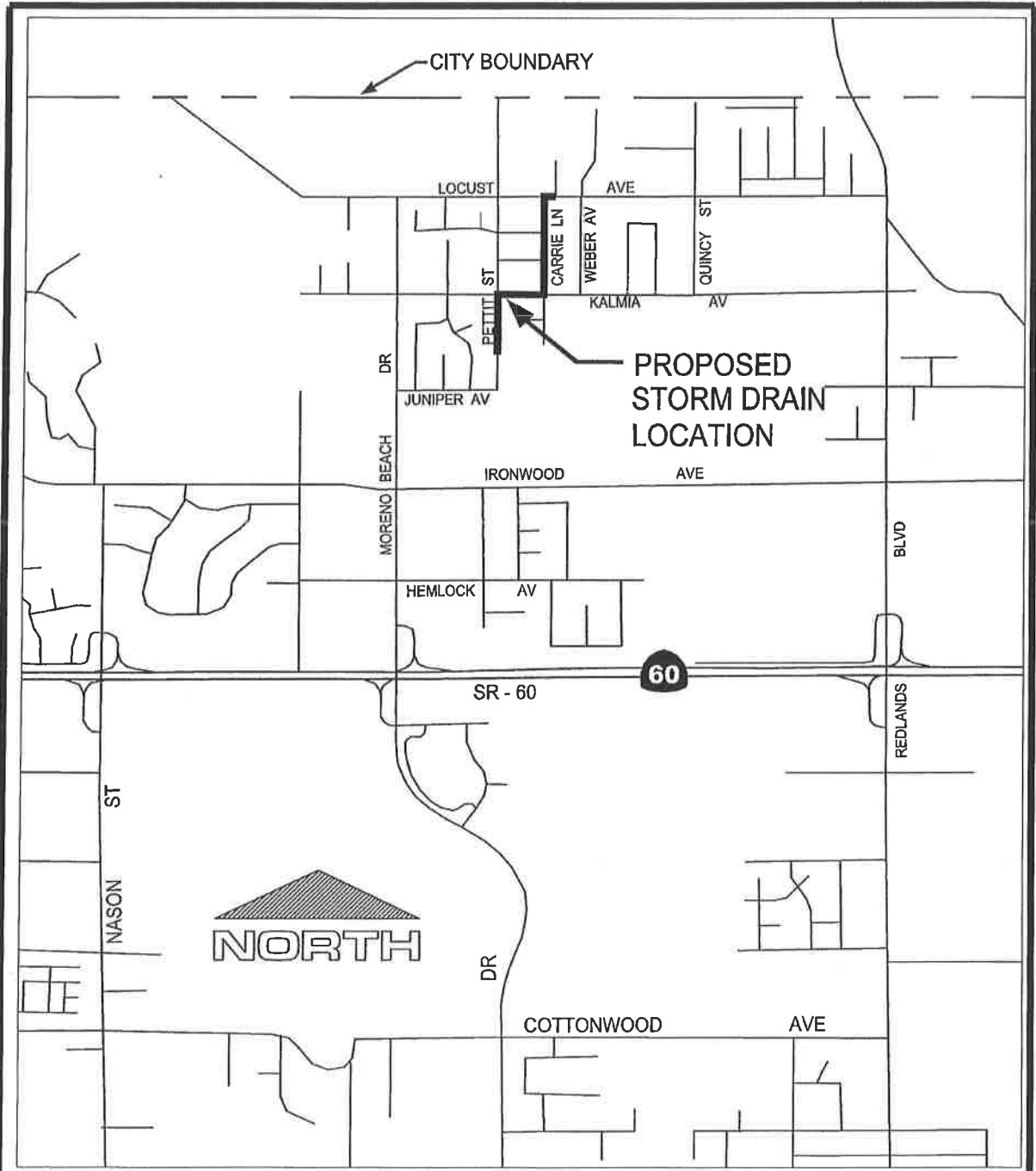
1. The Firm's General Experience and Qualification Information (20 points) – Information about the company (and all sub-Consultants) including professional licenses held; ability to furnish required insurance and meet stipulations of the City's "boiler plate" agreement; details about comparable projects completed by the firm, as well as local experience; and its ability to provide the required services in an efficient and expeditious manner.
2. Experience of Key Personnel (40 points) – Background on key personnel (including all sub-consultants) qualifications, abilities, familiarity with state and federal procedures, local experience on comparable projects and length of service with the firm, reference information preferably with municipal agencies, **and proven track record and depth of understanding/knowledge of the proposed Design Consultant Project Manager, Construction Manager, and/or Inspector.**
3. Project Approach/Understanding (40 points) – **Understanding of project**, discussion of major issues identified on the project and how the Consultant team plans to address them; the management approach and organization necessary to complete the specific project; and outline quality control measures to ensure delivery of a quality product on time, within budget that provides a cost efficient, timely and predictable execution of the project construction.

Attachments:

Attachment "A" – Location Map

Attachment "B" – City Standard Consultant Agreement (no changes to this agreement will be allowed)

ATTACHMENT "A"



LOCATION MAP



Public Works Department
Capital Projects Division

SAN TIMOTEO FOOTHILL NEIGHBORHOOD
FLOOD PROTECTION PROJECT

PROJECT NO. 804 0007 70 77

ATTACHMENT "B"

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

This Agreement is by and between the City of Moreno Valley, California, a municipal corporation, hereinafter described as "City," and **Name of Consultant Firm**, a (California corporation, partnership, sole ownership), hereinafter described as "Consultant." This Agreement is made and entered into effective on the date the City signs this Agreement.

RECITALS

WHEREAS, the City has determined it is in the public interest to proceed with the work hereinafter described as "Project"; and

WHEREAS, the City has determined the Project involves the performance of professional and technical services of a temporary nature as more specifically described in Exhibit "A" (City's Request for Proposal) and Exhibit "B" (Consultant's Proposal) hereto; and

WHEREAS, the City does not have available employees to perform the services for the Project; and

WHEREAS, the City has requested the Consultant to perform such services for the Project; and

WHEREAS, the Consultant is professionally qualified in California to perform the professional and technical services required for the Project;

THEREFORE, the City and the Consultant, for the consideration hereinafter described, mutually agree as follows:

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

DESCRIPTION OF PROJECT

1. The Project is described as professional consultant design services for:

NAME OF PROJECT

Project No. XXX XXXX XX XX

SCOPE OF SERVICES

2. The Consultant's scope of service is described on Exhibit "B" attached hereto and incorporated herein by this reference. In the event of a conflict, the City's Request for Proposal shall take precedence over the Consultant's Proposal.

3. The City's responsibility is described on Exhibit "C" attached hereto and incorporated herein by this reference.

PAYMENT TERMS

4. The City agrees to pay the Consultant and the Consultant agrees to receive a "Not-to-Exceed" fee of \$_____ in accordance with the payment terms provided on Exhibit "D" attached hereto and incorporated herein by this reference.

TERM OF AGREEMENT

5. This agreement will terminate on _____ unless the termination date is extended by an amendment to the agreement.

TIME FOR PERFORMANCE

6. The Consultant shall commence services upon receipt of written direction to proceed from the City.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

7. The Consultant shall perform the work described on Exhibit "A" in accordance with the schedule set forth in Exhibit "E" attached hereto and incorporated by this reference.

Or

7. The Consultant shall perform the work described on Exhibit "A" in accordance with the design/construction schedule as stated in the Notice to Proceed.

8. The Consultant and the City agree that the schedule in Paragraph 7 above represents their best estimates with respect to completion dates, and both the Consultant and the City acknowledge that it will not unreasonably withhold approval of the Consultant's requests for extensions of time in which to complete the work required of the Consultant hereunder.

9. The Consultant shall not be responsible for performance delays caused by others or delays beyond the Consultant's reasonable control, and such delays shall extend the time for performance of the work by the Consultant. Delays caused by non-performance or unjustified delay in performance by a subconsultant of the Consultant are not considered to be beyond the Consultant's reasonable control.

10 (a) The Consultant agrees that the personnel, including the principal Project manager, and all subconsultants assigned to the Project by the Consultant, shall be subject to the prior approval of the City.

(b) No change in subconsultants or key personnel shall be made by the Consultant without written prior approval of the City.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

SPECIAL PROVISIONS

11. It is understood and agreed that the Consultant is, and at all times shall be, an independent contractor and nothing contained herein shall be construed as making the Consultant or any individual whose compensation for services is paid by the Consultant, an agent or employee of the City, or authorizing the Consultant to create or assume any obligation or liability for or on behalf of the City.

12. The Consultant may also retain or subcontract for the services of other necessary consultants with the prior written approval of the City. Payment for such services shall be the responsibility of the Consultant. Any and all subconsultants employed by the Consultant shall be subject to the terms and conditions of this Agreement, except that the City shall have no obligation to pay any subconsultant for services rendered on the Project.

13. The Consultant and the City agree to use reasonable care and diligence to perform their respective services under this Agreement. Unless hereinafter specified, neither party shall be responsible for the services of the other or any subcontractor or subconsultant employed by the other party.

14. The Consultant shall comply with all applicable federal, state, and local laws in the performance of work under this Agreement.

15. To the maximum extent allowable by law, the Consultant agrees to indemnify, defend, and save the City, the Moreno Valley Housing Authority (MVHA), and the Moreno Valley Community Services District (CSD), their officers, agents and employees harmless from any and all liability, claims, demands, damages, or injuries to any person, including

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

injury to the Consultant's employees and all claims that arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of the Consultant, its officers, agents or employees, or its subconsultant(s) or any person acting for the Consultant or under its control or direction; provided, however, that this indemnification and hold harmless shall not include claims arising from the negligence or willful misconduct of the City, MVHA and CSD, their officers, agents or employees.

16. (a) The Consultant shall procure and maintain, at its sole expense, throughout the term of this Agreement and any extension thereof, Professional Errors and Omission Insurance coverage in the form and substance and with carriers acceptable to the City. Such coverage limits shall not be less than \$1,000,000 per claim and aggregate.

(b) During the entire term of this Agreement, the Consultant agrees to procure and maintain General Liability Insurance in form and substance and with carriers acceptable to the City at its sole expense to protect against loss from liability imposed by law for damages on account of bodily injury, including death therefrom, suffered or alleged to be suffered by any person or persons whomever, resulting directly or indirectly from any act or activities of the Consultant its sub-consultant or any person acting for the Consultant or under its control or direction, and also to protect against loss from liability imposed by law for damages to any property of any persons caused directly or indirectly by or from acts or activities of the Consultant or its subconsultants, or any person acting for the Consultant or under its control or direction.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

(c) Such General Liability Insurance shall be maintained in full force and effect throughout the terms of the Agreement and any extension thereof in the minimum limits provided below:

	<u>General Liability</u>
Bodily Injury	\$1,000,000 per occurrence
Property Damage	\$ 500,000 per occurrence

A combined single limit policy with aggregate limits in the amount of \$2,000,000 will be considered equivalent to the above minimum limits.

(d) If the operation under this Agreement results in an increased or decreased risk in the opinion of the City Manager, then the Consultant agrees that the minimum limits hereinabove designated shall be changed accordingly upon request by the City Manager.

(e) The Consultant shall procure and maintain, at its sole expense, and throughout the term of this Agreement and any extension thereof, Public Liability and Property Damage Insurance coverage for owned and non-owned automotive equipment operated on City premises. Such coverage limits shall not be less than \$1,000,000 combined single limit.

(f) The Consultant shall procure and maintain, at its sole expense, Workers' Compensation Insurance in such amounts as will fully comply with the laws of the State of California and which shall indemnify, insure and provide legal defense for both the Consultant and the City, MVHA and CSD against any loss, claim, or damage arising from

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

any injuries or occupational diseases happening to any worker employed by the Consultant in the course of carrying out the Agreement.

(g) The City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents shall be named as additional insured on all policies of insurance except errors and omissions and worker's compensation.

(h) A Certificate of Insurance and appropriate additional insured endorsement evidencing the above insurance coverage shall be submitted to the City Clerk prior to the execution of this Agreement on behalf of the City.

(i) The Certificate of Insurance or an appropriate binder shall bear an endorsement containing the following provisions:

"Solely as respect to services done by or on behalf of the named insured for the City of Moreno Valley, it is agreed that the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, their officers, employees and agents are included as additional insured under this general liability policy and the coverage(s) provided shall be primary insurance and not contributing with any other insurance available to the City of Moreno Valley, the Moreno Valley Housing Authority, and the Moreno Valley Community Services District, its officers, employees and agents, under any third party liability policy."

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

(j) Insurance companies providing insurance hereunder shall be rated (A minus: VII - Admitted) or better in Best's Insurance Rating Guide and shall be legally licensed and qualified to conduct insurance business in the State of California.

(k) The terms of the insurance policy or policies issued to provide the above insurance coverage shall not be amended to reduce the above required insurance limits and coverages nor shall such policies be canceled by the carrier without thirty (30) days prior written notice by certified or registered mail of amendment or cancellation to the City, except that cancellation for non-payment of premium shall require ten (10) days prior written notice by certified or registered mail. In the event the said insurance is canceled, the Consultant shall, prior to the cancellation date, submit to the City Clerk new evidence of insurance in the amounts established.

17. During the performance of this Agreement, the Consultant will not unlawfully discriminate against any employee or applicant for employment because of race, religion, creed, color, national origin, sex, or age. The Consultant will treat employees during employment without regard to their race, religion, creed, color, national origin, sex, or age.

18. Consultant and subconsultants shall pay prevailing wage rates when required by the Labor Laws of the State of California.

19. (a) The Consultant shall deliver to the Public Works Director/City Engineer of the City or his/her designated representative, immediately upon request in both hard copy and electronic format, all documents, drawings, models, presentation materials, renderings, calculations, specifications, permits and permit-related documents, surveys, materials tests, geotechnical reports, etc., if available, developed to date for the City's

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

project and any other City-provided documents, which shall become the property of the City for all purposes, which also includes the patent rights with respect to any discovery or invention which arises or is developed in the course of or under this Agreement, and copyrights. The Consultant may retain for its files, at its expense, copies of any and all materials, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement. It shall be understood that the City shall be the owner of all project-related documents and drawings at all times and during all phases of the project. The City reserves the right to ask for a hard copy and/or an electronic copy of the documents developed to date at any time during the period of this agreement.

(b) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any, for professional services related to the City's project.

(c) The City agrees to hold the Consultant free and harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant under this Agreement, if used by the City on other projects without the permission of the Consultant. Consultant acknowledges that Consultant work product produced under this agreement may be public record under State law.

20. (a) The City may terminate this Agreement without cause on the part of Consultant by giving at least ten (10) days written notice to the Consultant. The written notice shall specify the date of termination. Upon receipt of such notice, the Consultant may continue services on the project through the date of termination, provided

9

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

that no service(s) shall be commenced or continued after receipt of the notice, which is not intended to protect the interest of the City. The City shall pay the Consultant within thirty (30) days after the date of termination for all non-objected to services performed by the Consultant in accordance herewith through the date of termination.

(b) Upon notice of termination, the Consultant shall deliver to the Public Works Director/City Engineer of the City or his/her designated representative, in both hard copy and electronic format, all documents, drawings, models, presentation materials, renderings, calculations, specifications, permits and permit-related documents, surveys, materials tests, geotechnical reports, etc., if available, developed to date for the City's project and any other City-provided documents, which shall become the property of the City. The Consultant may retain for its files, at its expense, copies of any and all materials, including drawings, documents, and specifications, produced by the Consultant in performance of this Agreement. It shall be understood that the City shall be the owner of all project-related documents and drawings, regardless of the completeness of said documents.

(c) The Consultant shall be entitled to copies of all furnished materials for his files and his subconsultants, if any, for professional services related to the City's project.

(d) The City agrees to hold the Consultant harmless from any claim arising from any unauthorized use of computations, maps, and other documents prepared or provided by the Consultant. Consultant acknowledges that Consultant work product produced under this Agreement may be public record under State law.

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

(e) Either party may terminate this Agreement for cause. In the event the City terminates this Agreement for cause, the Consultant shall perform no further service(s) under the Agreement unless the notice of termination authorizes such further work.

21. This Agreement is binding upon the City and the Consultant and their successors and assigns. Except as otherwise provided herein, neither the City nor the Consultant shall assign, sublet, or transfer its interest in this Agreement or any part thereof without the prior written consent of the other.

22. A City representative shall be designated by the City and a Consultant representative shall be designated by the Consultant. The City representative and the Consultant representative shall be the primary contact person for each party regarding performance of this Agreement. The City representative shall cooperate with the Consultant, and the Consultant's representative shall cooperate with the City in all matters regarding this Agreement and in such a manner as will result in the performance of the services in a timely and expeditious fashion.

23. This Agreement represents the entire and integrated Agreement between the City and the Consultant, and supersedes all prior negotiations, representations or Agreements, either written or oral. This Agreement may be modified or amended only by a subsequent written Agreement signed by both parties.

24. Where the payment terms provide for compensation on a time and materials basis, the Consultant shall maintain adequate records to permit inspection and audit of the Consultant's time and materials charges under this Agreement. The Consultant shall make such records available to the City at the Consultant's office during normal business hours

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

upon reasonable notice. Nothing herein shall convert such records into public records. Except as may be otherwise required by law, such records will be available only to the City. Such records shall be maintained by the Consultant for three (3) years following completion of the services under this Agreement.

25. The City and the Consultant agree that, to the extent permitted by law, until final approval by the City, all data shall be treated as confidential and will not be released to third parties without the prior written consent of both parties.

26. The Consultant shall employ no City official or employee in the work performed pursuant to this Agreement. No officer or employee of the City shall have any financial interest in this Agreement in violation of federal, state, or local law.

27. Subject to the provisions of Section 19 (a) above, all plans, drawings, specifications, reports, logs, and other documents prepared by the Consultant in its performance under this Agreement shall, upon demand by the City, be delivered to and become the property of the City for the limited use as set out above, provided that the Consultant shall be entitled, at its own expense, to make copies thereof for its own use.

28. The laws of the State of California shall govern the rights, obligations, duties, and liabilities of the parties to this Agreement, and shall also govern the interpretation of this Agreement. Venue shall be vested in the Superior Court of the State of California, County of Riverside.

29. If the funding source for this Agreement includes Federal funds, the following provisions must be complied with:

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

(a) Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60);

(b) the Copeland "Anti-Kickback" Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3);

(c) the Davis-Bacon Act (40 U.S.C. 276a to 276a-7) as supplemented by Department of Labor regulations (29 CFR Part 5);

(d) Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor regulations (29 CFR Part 5);

(e) Access by the grantee, the subgrantee, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions;

(f) Retention of all required records for three years after grantees or subgrantees make final payments and all other pending matters are closed;

(g) All applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15);

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

(h) Mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871);

(i) all requirements and regulations pertaining to reporting;

(j) in the case of occurrence of termination for cause, the City shall use all retained payments and any progress payments due for work completed before the termination to liquidate the Consultant's liability to the City. If the retained and unpaid amounts are insufficient, the City shall take steps to recover the additional sum from the Consultant.

SIGNATURE PAGE FOLLOWS

SAMPLE

**AGREEMENT FOR PROFESSIONAL
CONSULTANT SERVICES
PROJECT NO. XXX XXXX XX XX**

IN WITNESS HEREOF, the parties have each caused their authorized representative to execute this Agreement.

City of Moreno Valley

Name of Consultant Firm

BY: _____
City Manager

BY: _____

Date

TITLE: _____
(President or Vice President)

Date

<p><u>INTERNAL USE ONLY</u></p> <p>APPROVED AS TO LEGAL FORM:</p> <p>_____ City Attorney</p> <p>_____ Date</p> <p>RECOMMENDED FOR APPROVAL:</p> <p>_____ Department Head</p> <p>_____ Date</p>
--

BY: _____

TITLE: _____
(Corporate Secretary)

Date

- Attachments: Exhibit "A" – City's Request for Proposal
 Exhibit "B" – Consultant's Proposal
 Exhibit "C" – City's Responsibility
 Exhibit "D" – Terms of Payment
 Exhibit "E" – Consultant's Schedule

\\ZURICH\Shared\PublWork\CapProj\CapProj\PROJECTS\Quang - 804 0007 70 77 - San Timoteo Foothill Neighborhood Flood Protection\Design Phase\Consultant -\RFP\RFP Attachments\Sample Boiler-Agreement-Design with Milestones-CA approved 9-12-13.doc

CITY - SERVICES TO BE PROVIDED
TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

EXHIBIT "C"

TERMS OF PAYMENT

1. The Consultant's compensation shall not exceed \$_____.
2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml
3. The Consultant will electronically submit an invoice to the City for milestone payments along with documentation evidencing services completed to date. The milestone payment is based on actual time and materials expended in furnishing authorized professional services during the preceding period. The project milestones are identified in Section VIII titled "Payment to Consultant" of the City's Request for Proposal. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any milestone payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org. Accounts Payable questions can be directed to (951) 413-3073. Copies of invoices may be submitted to the Capital Projects Division at miab@moval.org or calls directed to (951) 413-3155.

EXHIBIT "D"

EXHIBIT "D"
PROJECT NO. XXX XXXX XX XX

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at:

http://www.moval.org/city_hall/forms.shtml#bf

5. The minimum information required on all invoices is:
- A. Vendor Name, Mailing Address, and Phone Number
 - B. Invoice Date
 - C. Vendor Invoice Number
 - D. City-provided Reference Number (e.g. Project, Activity)
 - E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
6. The City shall pay the Consultant for all invoiced, authorized professional services within forty-five (45) days of receipt of the invoice for same.



AKM Consulting Engineers

553 Wald
Irvine, CA 92618

Telephone: 949.753.7333

Facsimile: 949.753.7320

*Water
Resources*

Infrastructure

*Construction
Management*

*Municipal
Services*

December 12, 2013

Revised: February 5, 2014

City of Moreno Valley
Capital Projects Division
14177 Frederick Street, PO Box 88005
Moreno Valley, CA 92552-0805

Attn: Mr. Quang Nguyen, Senior Engineer, P.E.

Subject: Proposal to Provide Professional Consultant Design Services for San Timoteo Foothill Neighborhood Flood Protection Moreno Master Plan Storm Drain Lines K1 and K4, Project No. 804 0007 70 77

Dear Mr. Quang Nguyen:

In response to your request for proposals dated November 18, 2013, AKM Consulting Engineers is pleased to submit our proposal, with full incorporation of the RFP, to provide engineering consultant services for the San Timoteo Foothill Neighborhood Flood Protection Moreno Master Plan Storm Drain Lines K1 and K4 for the City of Moreno Valley. As requested, the proposal elaborates on AKM's relevant experience, capabilities and approach to the work. AKM understands that this proposal will jointly become part of the Agreement for Professional Consultant Services when the said Agreement is fully executed by the City and will fully comply with the said Agreement.

AKM Consulting Engineers is a multi-disciplined professional organization that specializes in providing water resources engineering and related services to a client list of over 70 cities and public agencies in the Southern California area. From our office located in Irvine, California, AKM can provide immediate, responsive and effective service to the City of Moreno Valley for the subject Project.

Based upon our review of the scope of work, available related materials, and our experience with similar work, we have assembled a Project Team with extensive experience and expertise in storm drains to undertake the subject project, and complete it within the desired schedule. If a team member should become unavailable, AKM will not substitute other staff without written approval from the City.

The proposed project team will be under the direction of Mr. Zeki Kayiran, P.E. who has over 40 years water resources engineering experience, including design and construction of numerous channels and storm drains for Riverside, San Bernardino, Los Angeles, and Orange County Flood Control Districts, as well as municipal agencies. Mr. Gary Hobson, P.E. will serve as the QA/QC Manager. He has over 36 years of experience in the design and construction of water resources engineering experience. Mr. Morgan Ying, P.E., Q.S.D. has over 32 years of experience in the planning, design, and construction of major storm drain facilities and flood control channels. Mr. Jon Nitta, P.E. will be responsible for hydrologic and hydraulic studies. He has extensive working knowledge of hydraulic and hydrologic methods and software. The AKM Team includes Ninyo and Moore for geotechnical investigations, UltraSystems Environmental Incorporated for environmental services, Underground Solutions for utility potholing, Traffic Control Engineering for traffic control services, and Kelsoe and Associates for surveying services.

This project team brings unsurpassed experience and expertise in storm drain evaluation, design, and construction, which will result in a technically superior and implementable project for the City of Moreno Valley.

We appreciate the opportunity to submit our proposal, and look forward to being of service to the City of Moreno Valley on this most important project. Should you have any questions or require any additional information, please do not hesitate in contacting the undersigned.

Very truly yours,

AKM Consulting Engineers



Zeki Kayiran, P.E.

Principal

TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
	COVER LETTER	
1	PROJECT UNDERSTANDING	1-1
2	APPROACH AND MANAGEMENT PLAN	2-1
3	QUALIFICATIONS AND EXPERIENCE	3-1
4	STAFFING PLAN	4-1
5	WORK PLAN AND SCHEDULE.....	5-1
6	QUALITY CONTROL AND ASSURANCE	6-1
7	ADDITIONAL RELEVANT INFORMATION	7-1
8	ADDITIONS OR EXCEPTIONS TO THE CITY'S REQUEST FOR PROPOSAL	8-1
9	COST PROPOSAL.....	9-1
APPENDICIES		
A	RESUMES	
B	RATE SCHEDULE	
C	PROJECT SCHEDULE	
D	RESOURCE MATRIX (STAFF HOURS)	
E	CERTIFICATES	
F	COST PROPOSAL (SEPERATE EVELOPE)	

SECTION 1

Project Understanding

PROJECT BACKGROUND AND UNDERSTANDING

The City of Moreno Valley (City) is seeking professional design services to improve a storm drain system associated with the San Timoteo Foothill Neighborhood Flood Protection – Moreno Master Plan Storm Drain Lines K-1 and K-4.

The proposed Storm Drain Lines K-1 and K-4 is an extension of the existing storm drain system starting on: 1) Pettit Street north of Juniper Avenue to Kalmia Avenue; 2) east on Kalmia Avenue to Carrie Lane (private road); 3) north on Carrie Lane to Locust Avenue; and 4) east on Locust Avenue to Bonnie View Avenue. The total length of the proposed storm drain system is about 3,080 feet. The project will be designed to provide flood protection level up to a 100-year storm event.

In order to accomplish the project within the City's timeline schedule, AKM will provide the following tasks/services: Phase 1 - 1) Project Schedule and Management; 2) As-Built Plans/Records Research and Review; 3) Utility/Agency Coordination; 4) Surveying Service; 5) Right-of-Way; 6) Geotechnical Services; 7) Potholing Service; 8) Environmental Study and CEQA Documentation; 9) Traffic Control Plans; 10) Hydrology Study and Hydraulic Analysis; 11) Determination of Requirements for Various Permits; 12) 35% Design Plans Submittal per Project Summary Memorandum and with Construction Cost Estimate; Phase 2 - 1) Project Management; 2) Right-of-Way and/or Easement Documents; 3) Final Hydrology and Hydraulic Reports; 4) Follow-up Utility Coordination; 5) 100% Completion of Construction Plans; 6) Permitting; 7) Preparation of Final PS&E Contract Documents; 8) Project Adjustment per City Specified Priority; 9) Stormwater Pollution Prevention Plan (by Contractor); 10) Deliverables; 11) Interim Submittals and Final Submittals; Phase 3 - Construction Bidding Services; 2) Construction Support).

The contract package will include the construction design plans, (environmental study report), traffic control plan, SWPPP package, (general and special provisions of specifications), right-of-way engineering and documents, and construction cost estimate for the project. The contract package will meet all the design criteria and the City required standard format, and will include permits for construction.

AKM will provide the bid services as instructed by the City. If requested by the City, a pre-qualified contractors list will be presented to the City for review and approval. During the construction, AKM will provide construction support services to facilitate project construction in accordance with the contract documents by responding to requests for information and preparing plan revisions necessitated by any unseen conditions. The final as-built drawings will be prepared based on the contractor's and the field inspector's redline sets.

AKM has assumed that the City will:

- Assist AKM and the sub-consultants in obtaining the required encroachment permits from the City, Homeowner Associations, and/or Private Property Owners. All the associated permit fees will be waived during the performance of Surveying, Utility Potholing, Geotechnical Investigation, Traffic Control Field Review, Environmental Study Investigation, and AKM Staff Site Reconnaissance. AKM and the sub-consultants will be responsible for performing the required work under valid permits.
- The City will provide as-built street and storm drain plans for the project at no cost to AKM. The water and sewer facility information will be provided by the Eastern Municipal Water District (EMWD) per their cost.

The scope of work will consist of the following.

SCOPE OF SERVICES – PHASE 1: 35% LEVEL COMPLETION

TASK NO. 1: PROJECT SCHEDULE AND MANAGEMENT

- 1.1 Project Schedule – AKM will prepare a work plan and an initial project schedule with milestones for each major task that is required for completion of this project. The milestone tasks will include: 1) Attendance at the kick-off meeting for project introduction and establishing general guidelines; 2)

SECTION 1

Project Understanding and Approach

Research and review the as-built plans and utility coordination; 3) Surveying/Right-of-way services; 4) Geotechnical service; 5) Potholing service; 6) Environmental study; 7) Traffic control plan; 8) Project Summary Memorandum with construction cost estimate; 9) Stormwater Pollution Prevention Plan (SWPPP); 10) Design plan preparation with permitting; 11) Contract Documents; 12) Deliverables; 13) Bidding service; and 14) Construction support services.

AKM will update the project schedule after the kick-off meeting (as required) based upon the final scope of work developed. A status report will be submitted monthly addressing schedule, work completed during the month, work expected to be completed for the following month, technical or permit issues, proposed solutions, and status of the budget.

- 1.2 Meetings with the City – AKM will hold a kick-off meeting with the City staff. The work plan and initial project schedule will be presented at this meeting. The scope of work, specific goals, and the City's experience with the street inundation problem within the project site will be discussed in the meeting. A memorandum will be issued to serve as the basis for subsequent action.

AKM will attend the monthly Project Development Team (PDT) meetings as scheduled. In these meetings, AKM will discuss the project schedule, project progress, key design issues/criteria, and methods to address project issues. Appropriate engineering, specialty staff, and subconsultant representatives will attend the meetings, along with the Project Manager. AKM will prepare an agenda prior to each meeting and document each meeting by issuing meeting minutes the following week.

- 1.3 Site Reconnaissance – AKM will conduct a detailed site reconnaissance to identify the natural drainage system, including the natural flow patterns and water courses, storm drain inlets/manholes, open ditches, culvert crossings at property, inlet and outlet connecting systems, and individual drainage areas at concentration points. This site visit will help in developing a proper design concept for intercepting and conveying the flow to each designated location.

During our preliminary site visit on November 25, 2013, we observed the following flow pattern and the water courses can be identified as stated below:

- a) There are two (2) major drainage courses coming to the project site from the north side of Locust Avenue. On the east, a lower pit area was created at the back of an existing catch basin between Bonnie View Avenue and Weber Avenue to intercept the runoff generated from the north and east sides of the area. The second drainage course is on the northwest corner of Carrie Lane and Locust Avenue intersection. A corrugated metal pipe was installed to intercept the runoff generated from a natural water course and a large open space area owned by Bear Valley & Alessandro Development Company (Assessor's Parcel No. 473250003).
- b) A drainage course through the backyard of private properties on south side of Locust Avenue between Bonnie Avenue and Weber Avenue exists, and is across the easterly drainage courses described above. This water course continues south westerly and then crosses to the west through a low point on Carrie Lane. It is an open ditch along the west side of Carrie Lane. Several corrugated metal pipes and reinforced concrete pipe culvert crossings were installed across properties.
- c) All runoff along Carrie Lane and along Kalmia Avenue east of Carrie Lane confluence at the northwest corner of Kalmia Avenue and Carrie Lane. The flow is then conveyed in an open ditch along the north side of Kalmia Avenue. Eventually, this flow is conveyed southerly in a culvert to the east side of Pettit Street, where it drains into existing two catch basins on Pettit Street.
- d) The existing drainage system in Pettit Street and Juniper Avenue consists of 54-inch storm drain which outlets into natural water at the south west corner of Pettit Street and Juniper Avenue. The location will be the future connection point to construct the proposed drainage system. Two catch basins and one storm drain manhole are located at this location.

SECTION 1

Project Understanding and Approach

- e) As indicated on the USGS map, the natural water course within the project site is under the jurisdiction of the California Department of Fish and Wildlife. AKM will apply for the required permit from the Department to accomplish the project.

TASK NO. 2: AS-BUILT PLANS/RECORDS RESEARCH AND REVIEW

- 2.1 **City Coordination** – During our recent site reconnaissance, several manholes, drainage inlets, water valves; etc. were observed within the project site. The project site is surrounded by large single family properties, open space, and environmentally sensitive areas. AKM will collect the as-built facility plans, street construction plans, parcel maps, specific engineering study reports and environmental documents within the project site from the City and other jurisdictional agencies to better understand the project.
- 2.2 **Evaluation of Existing Improvements** – Based on the available information, AKM will conduct an in-house meeting to evaluate these existing facilities/utilities. Major facilities such as storm drain system, water lines, etc. of the as-built plans and the related documents will be carefully reviewed and verified in the field for their consistency and accuracy. The as-built information will be transferred to the base map for the determination of the future proposed storm drain alignment to minimize the potential conflicts and construction cost.
- 2.3 **Existing Storm Drain System on Pettit Street** – Based on the City Street Improvement Plans, Tract No. 18019, Schedule "B", Sheet 6 of 12, Pettit Street, a 66-inch diameter RCP 10 feet in length was constructed at the system outlet draining to a natural water course. This 66-inch pipe conveying a total flow of 327.5 cfs, has a manhole confluence with another drainage system from westerly side of Juniper Avenue. On Pettit Street, the drainage system is 787 feet of 54-inch diameter pipe, conveying a total 100-year flow of 200 cfs toward north. Two catch basins (W= 14' and W= 21') were constructed on west side of the street. Then through a manhole, the 54-inch pipe is transition to a 36-inch pipe for another 20 feet where it connects to an existing 36-inch CMP pipe. The existing 36-inch CMP is not able to convey the total design discharge of 168 cfs, consequently inundation occurs along the properties on the east side of Pettit Street and on the street.

TASK NO. 3: UTILITY/AGENCY COORDINATION

- 3.1 **Utility/Agency Coordination** – Three major steps will be conducted in this task. 1) In order to collect all the utility information, AKM will send Utility Notice Letters, in the City provided utility notice format, to all the companies with facilities within the project site to obtain the above ground and underground facility maps. A general statement will be included in the Utility Notice Letter to inform these utility owners, stating "The utility owner shall relocate its conflicting portion of the facility prior to the construction and adjust their facility to grade after completion of the street paving as their own cost." These facility owners include the Eastern Municipal Water District (EMWD), Southern California Gas Company, Southern California Edison Company, Time Warner Cable Company, Verizon Company, and any other utility owners. Another Utility Notice Letter will also be sent to: County of Riverside, Department of Public Works (SBCDPW), Riverside County Flood Control and Water Conservation District (RCFC & WCD), California Department of Fish and Wildlife, and Federal Emergency Management Agency (FEMA), Hazard Mitigation Grant Program (HMGP) to inform them of the project and request facility maps or related information. AKM will review these maps and verify them in the field for their consistency and accuracy. Any major discrepancy between the plans and the site investigation will be verified and finalized with the agency/utility owner. The accurate facility information will then be transferred to the base map. 2) After the completion of 35% design phase and other phases, the design plans with their respective facility clouded will be sent to the same agencies for verification of their utility locations. In the meantime, the associated permits will be processed for final design. 3) The final approved plans will be sent to the agencies for their records.
- 3.2 AKM will contact the transportation agencies; Caltrans, Riverside Transit Agency (RTA), and the Homeowners Association to inform them of this coming project. Invitation to the kick-off meeting will be extended to all affected agencies, utility owners, and homeowner associations.

SECTION 1

Project Understanding and Approach

- 3.3 Any utility conflicts or design issues will be discussed with the City and the utility owners. Modification of design concept or relocation of existing utilities will be carefully reviewed. Any major revision to the plans will be evaluated based on construction cost and constructability. The evaluation sheet will be submitted to the City and affected utility owners for approval of relocation of their respective utilities. During Phase 1 design stage, relocation of the existing utilities will be clearly identified and the solutions for resolving conflicts will be shown on the design plans. The project area is in the service area of EMWD. After contacting the Divisions of As-built Facility and New Development Planning of EMWD, we found out that there is no current underground sewer system nor future plans for serving the water and sewer project area. During the design stage, AKM will contact EMWD for any of the future sewer projects, and the design will consider the information collected, anticipated conflicts, and relocation or adjustments the existing utilities will be recorded and summarized in the Project Summary Memorandum.
- 3.4 Since this project will construct the Moreno Master Plan Lines K-1 and K-4, AKM will continuously coordinate with the Riverside County Flood Control and Water Conservation District for their review and approval of every stage of the design.

TASK NO. 4: SURVEYING SERVICE

- 4.1 **Survey** – AKM will perform field surveys to develop design data and base maps. The ground survey will establish the horizontal and vertical control points for the ground and aerial targets. A minimum of two (2) temporary benchmarks will be established for this project. All the existing monuments will be protected in-place and recorded for final design. The ground survey will also include all the above ground facilities along the project including the storm drain manhole details, storm drain outlet/inlet alignment details, gas, water, and electrical vaults, and other features related to the project.

We will develop an aerial topographic map with 1.0' contour intervals and 1"= 20' horizontal scale map, which comply with National Map Accuracy Standards. The topographic map will cover a 200 foot wide strait along Pettit Street, Kalmia Avenue, Carrie Lane, and Locust Avenue.

Survey work will include mapping the project site to identify the utility/facility, street and ground configurations, and include the street centerline and right-of-way from record maps and Assessor's Parcel Maps. The address of each parcel will be included on the base map. A uniform stationing on street centerline and storm drain alignment (not the same stationing system) will be established increasing northerly and easterly. Most likely, the stationing system on the street centerline will follow the existing street plans. Since the proposed storm drain system is connecting to an existing line, the identical point will be verified and equation stationing will be indicated as starting the new storm drain.

The surveying information will also include the boundary surveys, lot surveys, and property line surveys in order to obtain accurate boundary data to perform the proposed storm drain alignment and the acquisition of right-of-way and/or easement for the future storm drain system.

- 4.2 **ADA Compliance** – AKM will perform a field survey of the existing streets within the project limits to evaluate ADA compliance. A preliminary ADA Evaluation Report will be presented to the City for documenting the current conditions.

TASK NO. 5: RIGHT-OF-WAY

- 5.1 **Right-of-Way Study** – AKM will perform the right-of-way study as part of the field surveying. The City/County record map and assessor's parcel maps will be prepared to indicate the legal rights of each property owner. Ten (10) preliminary title reports will be prepared on Carrie Lane properties. Twenty-five (25) legal descriptions and plats for proposed permanent and temporary easements will be provided for the right-of-way study. Staking of the proposed easement locations will be provided as well. The existing street center line, right-of-way, and property line will be included in the base map. The storm drain system constructed on Pettit Street, Kalmia Avenue, and Locust Avenue shall be aligned within the public street right-of-way. Since Carrie Lane is a private road, any construction within this area shall request a public easement. The future storm drain proposed on Carrie Lane will

SECTION 1

Project Understanding and Approach

be presented to the City and the Homeowner Association for agreement. AKM will provide title reports and/or litigation guarantees for each of the required easements and will provide appraisal services in conformance with the Uniform Standards of Professional Appraisal Practice (USPAP) and the Code of Professional Ethics of Appraisal Institute and appraiser support during the acquisition process. Once the alignment is approved, AKM will coordinate with the property owners/Association and the City to finalize the street right-of-way. AKM will conduct the right-of-way engineering/plans and required legal documentations to assist the City in accepting Carrie Lane into the City's public roadway system. An acquisition of right-of-way plans and required documents will be submitted to the City. AKM will provide comprehensive settlement negotiations and escrow services including preparation of all related documents until required deeds are recorded. If eminent domain shall occur, AKM will coordinate with the City for future required services.

- 5.2 AKM will take the responsibility to ensure that all necessary right-of-way services are in accordance with the Federal, States, and local requirements. The acquisition process will follow the Caltrans procedures, California Civil Code, and the California Relocation Assistance law adopted by resolution of the City Council on August 19, 1986, including any changes to State and Federal law since the adoption.
- 5.3 The majority of the tributary area drains to the project site at the intersection of Locust Avenue and Carrie Lane. An alternative may be to intercept all the tributary storm runoff on the north side of Locust Avenue and convey it westerly to Pettit Street then southerly to Kalmia Avenue. The storm drain system proposed in the RFP states Kalmia Avenue will remain the same as the system proposed by the Mater Plan. By using this alternative storm drain alignment, the City can keep all new storm drain system within existing public street right-of-ways and protect Carrie Lane in place. The proposed alternative alignment can eliminate acquisition of future storm drain right-of-way/easement and also minimize the environmental impacts to the community and natural habitat. This alternative drainage system can be discussed with the City at the kick-off meeting to evaluate its benefits to the project. However, because NEPA is completed based on the selected alignment, we will maintain it.

TASK NO. 6: GEOTECHNICAL SERVICE

- 6.1 **Geotechnical Engineering** – A geotechnical investigation will be conducted to develop the design recommendations for pipe bedding and trench backfill, pavement restoration design, environmental concerns, removal of unsuitable materials, as well as general information for the Contractor's design sheeting, shoring, bracing, and dewatering systems. Shoring and dewatering are temporary systems for the Contractor's use, and will be contractor-design-build-remove facilities. The shoring and dewatering plan will be prepared by the Contractor and are excluded from this scope of work. Prior to performing the work, coordination with Underground Service Alert to identify underground utilities will be conducted to avoid any conflicts. The service will include the following tasks: 1) Project Coordination, Background Review, Traffic Control Plans, and Permit Acquisition; 2) Site Reconnaissance and Mark-out for Utility Clearance; 3) Subsurface Evaluation - It is anticipated that four (4) soil borings will be conducted approximately 25 feet in depth, throughout the entire project; 4) Laboratory Analyses - The collected boring samples will be laboratory tested including moisture and dry density, sieve analysis, shear strength, sand equivalent, soil corrosivity, and R-values; 5) Data Compilation and Analysis; and 6) Report Preparation. Groundwater information will also be provided to the Contractor for their consideration in design of any potential dewatering facilities and methods.

All in-place/laboratory tests, sampling, and reports will be performed and prepared in accordance with Caltrans procedures, policies, regulations, requirements, and formats; unless otherwise, other request from the City or other specific public agencies. The boring holes which are not located within the proposed pavement construction area but are in the existing paved area, they will be backfilled and repaired per the City Standard Plan No. 602, A through E. The other boring holes will be repaired as directed by the City.

SECTION 1

Project Understanding and Approach

TASK NO. 7: POTHOLING SERVICE

- 7.1 **Potholing** – AKM will conduct potholing services for fifteen (15) utility crossings along the proposed storm drain alignments to verify the horizontal and vertical impact to the project. At each potholing location, the existing utilities/encasements will be identified for their material, size, and depth. The thicknesses of street asphalt concrete pavement and its aggregated base will also be recorded for street resurfacing reference.
- 7.2 AKM will determine the actual potholing locations once all utility information has been obtained. Prior to performing the potholing work, AKM will submit the potholing location maps to the affected utility owners to clearly indicate the actual potholing locations and approximate depth of their respective utility. In general, the potholing location maps will be approved by the utility owners prior to performing the work.
- 7.3 AKM will contact Underground Service Alert (USA) to notify the project limits. Prior to performing any subsurface exploration work, the existing underground facilities shall be marked by the USA. A traffic control plan will be submitted to the City for approval and to obtain a permit prior to performing the service. The traffic control during the potholing service is included as part of the cost. For the potholes which are not located within the proposed pavement construction area but are in the existing paved area, they will be backfilled and repaired per the City Standard Plan No. 602, A through E. The rest of the potholes will be repaired by using Perma-Patch Asphalt or Rapid Set Repairs; unless otherwise, directed by the City Program Manager. All the potholing results and the comparison with the as-built plans will be transferred to the base map for design use. The potholing report will include the actual potholing data with related photos, location maps, and other information collected in the field. Copy of the report will be submitted to the City for project records.

TASK NO. 8: CEQA DOCUMENTATION AND ENVIRONMENTAL STUDY

- 8.1 **CEQA Documents** – Based on our preliminary study, this specific project may be qualified as in the category of "EXEMPTIONS" from the California Environmental Quality Act (CEQA) Guideline Section 15300, in which that projects have been determined not to have a significant effect on the environment and which shall; therefore, be exempt from the provisions of CEQA. Also, as described on Section 15269 Emergency Projects are Categorical Exemptions, which consist of: Emergency repairs to publicly or privately owned service facilities necessary to maintain service essential to the public health, safety or welfare. As reviewing the total length of the project which is less than one mile (5280 feet), it is also be qualified as "EXEMPTIONS" per CEQA, Section 21080.21 code.

In case the City needs to apply the permit for "Rule 1166 Various Locations plan", AKM will assist the City to obtain the permit from South Coast Air Quality Management District (AQMD). The City will need to renew the permit each year. For each construction, the contractor shall be responsible for applying for their own Rule 1166 permit.

- 8.2 **Environmental Clearance Study** – Four (4) major tasks will be included in the scope of service as described below: 1) City Coordination – Attend the kick-off meeting and other requested meetings to update the various aspects related to the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) process; 2) Initial Study – Conduct an initial study to assess the project's potential environmental impacts which are based on the results of noise study, air quality, and geotechnical results. After the completion of the Initial Study, the trustee agencies will be identified and consulted within compliance with required CEQA codes; 3) Technical Studies – Conduct technical studies to support environmental determination of the nature and project-related impacts. The Technical Studies will include Air Quality, Noise, Environmental Site Assessment, Cultural/Archaeological, and Biological Resources; 4) Preparation of Categorical Exemption and Categorical Exclusion Forms – The required categorical forms will be submitted to the City and FEMA for approval. A Notice of Determination (NOD) will be prepared to the City for review and comment prior to finalizing the document. The final approved Categorical Exemption and Categorical Exclusion Forms with electronic file will be submitted to the City.

SECTION 1

Project Understanding and Approach

TASK NO. 9: TRAFFIC CONTROL PLANS

- 9.1 **Traffic Control Plans** – AKM will provide a set of construction traffic control plans as part of bid documents in accordance with the latest edition of California Manual on Uniform Traffic Control Devices (MUCTD) and/or Work Area Traffic Control Handbook (WATCH) Manual. This set of plans will cover Locust Avenue, Carrie Lane, Kalmia Avenue, and Pettit Street within the vicinity of the project site. The scope of services will include: 1) Attend the requested meeting; 2) Define the Traffic Control necessary for the project; 3) Retrieve necessary base plans (striping plans, signal plans, construction plans from various sources); 4) Field review to determine existing street system, driveways that may be affected, and existing traffic conditions; 5) Develop traffic control strategies and coordination with the City to select the most cost effective plan; 6) Finalized traffic control, consistent with the City standards including signing, legends, and other construction detour standards; 7) Submit the final plans for the City approval.

TASK NO. 10: HYDROLOGY STUDY AND HYDRAULIC ANALYSIS

- 10.1 **Hydrology Study** – AKM will conduct a 100-year hydrology study based on the Riverside County Flood Control and Water Conservation District (RCFC & WCD) Hydrology Manual (April 1978 Edition) and Amendments. Based on the Hydrologic Soils Group Map, the project site is mainly classified under Soil Group C, which are soils having slow infiltration rates when thoroughly wetted and consisting chiefly of soils with a layer that impedes downward movement of water, or soils with moderately fine to fine texture, and having a slow rate of water transmission. The precipitations for the 100-year, 1-hour and the 2-year, 1-hour storm are about 1.2-inch and 0.51-inch; respectively. The slope of intensity duration curve is 0.500, and the 100-year standard intensity-duration curve data can be obtained from the Hydrology Manual, Plate D-4.1 (6 of 6). The hydrology study will cover the entire area tributary to Pettit Street and Juniper Avenue. It will determine the flow rates at each concentration points in order to analyze the catch basin, inlet/out structures, and connector pipes, and flood protection level on the streets. The on-site hydrology study will be submitted to the City and RCFC for approval. Any off-site hydrology study such as the drainage system on Juniper Avenue, is excluded from this proposal.
- 10.2 **Hydraulic Analysis** – AKM will conduct the hydraulic analysis for the proposed drainage system. The design flow rate will be based on the approved 100-year storm event as described in Task No. 10.1. It is assumed that the downstream control of the existing storm drain outlet to the open natural channel at the location of street intersection of Pettit Street and Juniper Avenue will be provided by the City or the Riverside County Flood Control. The hydraulic analysis will be based on the given downstream control and establish the proposed drainage system to provide the hydraulic grade line preferably at least two (2) feet below the street pavement and 6 inches of freeboard at each catch basin. The results of the hydraulic analysis; such as facility sizes, hydraulic grade lines, flow velocities, hydraulic data, etc. will be transferred to the design plans. A separate analysis will be conducted at each catch basin location to determine the connector pipe sizes, catch basin sizes, intercepted flow rates, bypass flow rates, and RCP "D"-Load.

TASK NO. 11: DETERMINATION OF REQUIREMENTS FOR VARIOUS PERMITS

- 11.1 **Determining the Requirements** – AKM will contact each individually affected agency to inform them of this project. AKM will ask for design criteria and regulations that shall be included in the design plans. Any special provisions from each agency will be included in the specifications as part of the contract documents. The construction plans will be prepared in accordance with each design criteria. In the case of a discrepancy between criteria, the most stringent criteria will govern the design. During Phase 1 design stage, no permit application will be submitted to the agencies; unless it is requested by the individual agency. The purpose of Phase 1 is to inform the agencies of the project, request design criteria, coordinate the design plans to meet the permit requirements, and to present the proposed storm drain system for future permit applications.
- 11.2 **Processing of Permits** – Even though the permit application is not yet submitted to the corresponding agencies, at this phase the agencies will be aware of the future project and each requirement from the

SECTION 1

Project Understanding and Approach

agencies will be included or considered in the design plans. Early contacts with the agencies will help to have a smooth transition from design concept plans to obtain construction permits for Phase 2 Services. The Santa Ana Region Low Impact Development (LID) guidance and standards will be incorporated into the project with concurrence of the City staff. AKM will contact these jurisdictional agencies to ensure that their requirements are included in the contact documents (design plans and specifications) prior to finishing the project. The jurisdictional agencies that issue the required permits may include, but not limited to, Riverside County Flood Control, CDFW, HMGP, and Santa Ana Regional WQCB.

TASK No. 12: 35% DESIGN PLANS SUBMITTAL PER PROJECT SUMMARY MEMORANDUM AND WITH CONSTRUCTION COST ESTIMATE

12.1 **Project Summary Memorandum** – AKM will prepare a Project Summary Memorandum (limited to 15 pages) per City required format to summarize the detailed subjects as described in the City Project Report. The summary report will include, but not be limited to, the following subjects: a) Project background related to the drainage issue; b) Major existing facilities; c) Project objectives; d) Design criteria and its deficiencies and exceptions with justifications; e) Geotechnical results; f) Environmental impacts and mitigation plan; g) Right-of-way or easement issue; h) Utility conflicts and relocation efforts; i) Project costs; j) Funding; and k) Scheduling.

12.2 **35% Design Plans Preparation** – AKM will submit the 35% design plans for City approval. In this 35% submittal, the design plans will be developed based on the tasks as described above from Task No. 1 through Task No. 12. The base map will be developed from the aerial topographic map and field surveys with all utility information obtained from the agencies and utility owners. During this design phase, the major utility crossings and the traffic load will be determined along the future storm drain alignment. According to the as-built water system provided by EMWD, a 16-inch PVC waterline was constructed on the south side of Locust Avenue with an average depth of 5-6 feet below the ground. A 12-inch PVC waterline was constructed on the east side of Pettit Street with an average depth of 4-5 feet below the ground. The future storm drain alignment will be selected to minimize the construction cost, impacts to the major utilities, traffic load, natural environment, and ease maintenance. The proposed alignment will be presented to the City and the Riverside County Flood Control for approval during this design phase. Since the proposed storm drain system is under the jurisdictions of Riverside County Flood Control and Waster Conservation District (RCFC & WCD), California Department of Fish and Wildlife (CDFW), and Federal Emergency Management Agency (FEMA), Hazard Mitigation Grant Program (HMGP), the required permit applications will be initiated in this phase. Any requirements of the agencies shall be incorporated into the design criteria.

AKM will conduct the structural design of the structures being required for the project. The related design details and calculations will be submitted to the City and other agencies for approval.

According to FEMA's FIRM map, dated August 28, 2008, jurisdictional large portions of the project site is in flood zone "Zone X". Improvements of this project will minimize the local flooding and protect the property, but will not improve the entire flood zone condition. Therefore, the Letter of Map Change (LOMP) from FEMA is excluded from this proposal.

All the existing survey monuments will be protected in place. Setting or replacing new monuments will be done by licensed Professional Land Surveyor (PLS), and a Record of Survey will be filed with the County. A copy will be submitted to the City as part of PS&E Task. As stated in the RFP, monuments will be placed in all street intersections, public and private.

12.3 **Construction Cost Estimate** – AKM will prepare a construction cost estimate based on design concept information described in the Project Summary Memorandum. The required items with their respective unit cost will be included per City/Agencies' required formats. The Engineer's Estimate and bid schedule will be broken out by funding source or as otherwise directed by the City. The cost estimate will be prepared based on recent similar projects in similar areas. AKM maintains an extensive database of construction costs, which will be used in developing this cost estimate.

SECTION 1

Project Understanding and Approach

TASK NO. 13: PRELIMINARY SUBMITTAL FOR REVIEW COMMENTS

- 13.1 **Submittal Required** – AKM will make the following submittals to the City for review and responses: 1) Four (4) sets of the design plans, reports, and documents as described in the above tasks; 2) Three (3) sets of street cross-sections; 3) Two (2) sets of signed Geotechnical Report, Potholing Report, Environmental Report, Project Summary Memorandum; 4) One (1) copy of the interactive transmittals, submittals, and letters sent to/receive from utility owners, Homeowner Association, property owners and agencies. The public agencies, utility owners, Homeowners Association or other parties as requested from the City will receive their requested sets of design plans for their review and responses.

SCOPE OF SERVICES – PHASE 2: 100% LEVEL COMPLETION

TASK NO. 1: PROJECT MANAGEMENT

- 1.1 **Project Management** – AKM will continue to manage the project, attend required meetings, submit monthly project progress reports, and prepare required memorandum as described in Phase 1 Scope of Services. After the Phase 1 submittal, any additional as-built information from the agencies or utility owners will be incorporated into Phase 2 Design. We will incorporate the comments on the Phase 1 work into the Phase 2 work.

TASK NO. 2: RIGHT-OF-WAY AND/OR EASEMENT DOCUMENTS

- 2.1 **Right-of-Way and/or Easement Documents** – AKM will finalize the right-of-way and/or storm drain easement study. The preliminary study shall have been agreed to by the City and the Homeowners Association during the Phase 1 Design. AKM will continue to the required coordination and negotiations with the City and the Homeowners Association to satisfy all requirements. Once all the associated parties agree upon the final street right-of-way and/or storm drain easement, AKM will prepare the right-of-way engineering/plans and required legal documentations to assist the City in accepting Carrie Lane into the City's public roadway system.

TASK NO. 3: FINAL HYDROLOGY AND HYDRAULIC REPORTS AND REQUIRED STRUCTURAL DESIGN REPORT

- 3.1 **Final Hydrology and Hydraulic Reports** – AKM will finalize the hydrology and hydraulic studies and prepare the final reports as part of the project submittal. The hydrology report will use the Advanced Engineering Software's RATSCX software, Riverside County standard printout, and the hydraulic report will use the Water Surface and Pressure Gradient (WSPG) standard printout, which was developed by the Los Angeles County Flood Control District.
- 3.2 **Required Structural Design Reports** – AKM will finalize the required structural design report for the structures which are needed in the project but not in accordance with any of the Standard Plans or Drawings. The structural calculations and report will be performed by AKM Structural Engineer. The report will be submitted to the City and the jurisdictional agencies for approval.

TASK NO. 4: FOLLOW-UP UTILITY COORDINATION

- 4.1 **Follow-Up Utility Coordination** – AKM will follow up the letters and design plans that are sent to the corresponding utility owners during the Phase 1 Design stage to verify their concerns. Any other utility conflicts or design issues will be discussed with the City and the utility owners. Modification of the design plans or other relocations of existing utilities will be carefully reviewed. Any major revision of the plans will be evaluated based on its construction cost and constructability. The evaluation sheet will be submitted to the City and the affected utility owners for approval. The 2nd and the 3rd "Utility Notice Letter" with design plans will be sent to the utility owners at 80% and 100% design stage; respectively. AKM will coordinate with the affected utility owners to schedule the relocation of the conflicting utility prior to starting of construction. After the completion of the project, the "Final Utility Notice Letter" with the final signed plans will be sent to the utility owners for their records. All the utility

SECTION 1

Project Understanding and Approach

notice letters will be sent out in the City provided format, Certified Mail with Return Receipt back to the City. AKM will coordinate with the utility companies to ensure their appropriate responses for all the utility notices are addressed. AKM will create and update a detailed utility coordination log file to track the coordination process and report each status at the monthly PDT meeting. It is acknowledged that four levels of City Utility Notice Letters are classified, and AKM will use the appropriate level of letter at various design stages to coordinate with the utility owners.

TASK NO. 5: 100% COMPLETION OF CONSTRUCTION PLANS

- 5.1 **80%, 100%, and Final Construction Plans** – After the completion of Phase 1 tasks, AKM will focus on the preparation of the final construction plans at 80%, 100%, and final stages. During each stage of work, AKM will ensure that any issue discussed with various agencies, utility owners, and homeowners association will be addressed correctly, and/or appropriately be responded to. After the completion on each stage, the construction plans will be submitted to the City, Riverside County Flood Control, and other agencies for review and approval. The final design plans will include, but not be limited to: Title Sheet, Index Map, General Notes and Construction Notes, Special Provision Notes per Specific Agencies, NPDS Standard Notes, Utility Contact Lists, Required Legend, Plan and Profile Sheets of the proposed storm drain system with their details, and Structural Details. It is acknowledge that construction notes will be arranged such that the first notes are "protect in place" followed with "removal" notes and end with the actual work. Notes of like work will be grouped together. The Right-of-Way and/or easement plans with its engineering documents will be in a separated set of plans if the City prefers.
- 5.2 **80%, 100%, and Final Specifications Submittals** – After the completion of each stage of construction plans, the Construction Specifications will be submitted and updated in accordance with the City required criteria and format. The Specifications will be prepared using the City provided boilerplate and General Technical Provisions in the current version of Microsoft Word for Windows format. In general, the Specification will include the general and special provisions with any other City modified documents. Any other documents, if requested by the City, will be attached in appendix sections; such as Public Improvement Warranty, Standard Plans (Drawings) used in the project, specifications for specific materials used in the project, permit information, and geotechnical information.
- 5.3 **80%, 100%, and Final Construction Cost Estimates** – AKM will prepare and update the construction cost estimate based on each design stage submittal. The quantity of each design item and its unit cost will be updated in order to maintain the accuracy of the project construction budget. The unit cost will be adjusted based on the new information; such as current constructed/bid projects within the vicinity, Engineering News-Record (ENR) index, and phone calls with various construction/material supplier offices. The cost estimate sheets will be prepared in the City approved format and will be broken out by funding source or as otherwise directed by the City.

TASK NO. 6: PERMITTING

- 6.1 **Preparation of Permit Application** – AKM will update the Construction Plans and the Specifications to include all the affected agencies' design criteria, regulatory issues, and special provisions of their specifications. The permit applications with the construction plans and the specifications will be submitted to each individual agency for their approval. Any concerns related to the permitting issue will be resolved with the City and the individual agency. Coordination between each agency can be accommodated in case of the discrepancy exists between various criteria. The most stringent requirements will govern.
- 6.2 **Obtaining Permits** – After the completion of 80%, AKM shall be able to resolve all the permitting issues and include all the required criteria into the final construction plans and specifications. Any additional concerns (if any) from the jurisdictional agencies will be included prior to finishing the project. Based on the agency's agreement, AKM will obtain each required permits at final design stage. The jurisdictional agencies that issue the required permits may include, but not limited to, Riverside County Flood Control, CDFW, HMGP, and SBCDPW.

SECTION 1

Project Understanding and Approach

TASK NO. 7: PREPARATION OF FINAL PS&E CONTRACT DOCUMENTS

- 7.1 **Final PS&E Contract Documents** – AKM will update and finalize the Design Plans, Specification and the Construction Cost Estimate. The contract documents will be signed by the Design Consultant Civil Engineers (Project Engineer and Project Manager) who are licensed to practice in the State of California and prepared and supervised the contract documents throughout the project.

TASK NO. 8: PROJECT ADJUSTMENT PER CITY SPECIFIED PRIORITY

- 8.1 **Project Adjustment** – AKM will provide an adjustment of final design plans and corresponding documents to reduce the scope of work to match available budget in accordance with the City-specified priorities. In general, AKM will evaluate the overall drainage system and identify the priority of the construction phases and divide the entire project into two or three phases. The phase 1 construction can be on Pettit Street only. The second phase can be the extension on Kalmia Avenue, and the third phase can be the extension on Carrie Lane and Locust Avenue. Once the project is divided into different phases, the City can easily determine the priority based on the available budget.

TASK NO. 9: STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

- 9.1 **Stormwater Pollution Prevention Plan (SWPPP)** – AKM will prepare the Stormwater Pollution Prevention Plan (SWPPP) in accordance with the City requirements. Since the proposed storm drain system is the extension of an existing 54-inch RCP on Pettit Street with a total linear length of approximately 3,080 feet, it is reasonable to assume that the total open-trench disturbed area will be less than one acre (43,560 square foot). Under this assumption, only typical SWPPP design plans will be prepared in City approved template. AKM will follow the guidelines of the State Water Board amended in Order 99-08-DWQ to apply a site as small as one acre, unless otherwise, directed by the City. The project site is a tributary of Perris Valley Storm Drain which drains into San Jacinto River. Eventually, San Jacinto River flows into Lake Elsinore. The type of required Construction Activity Permit will be pursued prior to starting the project. AKM will prepare the Notice of Intent (NOI) and process the SWPPP for approval through the Santa Ana Regional Water Quality Control Board and other appropriate authorities and agencies. The SWPPP will be prepared and sealed by a Qualified SWPPP Developer (QSP).

TASK NO. 10: DELIVERABLES

AKM will submit the final approved construction plans, specifications, and construction bid documents to the City. The comments from the City or agencies will be addressed and incorporated into the plan development during each design stage. AKM's Project Manager and the assigned QA/QC Manager will perform routine and final review prior to signing the Plans and Specifications.

- 10.1 **Construction Plans** – AKM will prepare the construction plans for the project to ensure the feasibility and constructability. The design plans will include title sheet, general notes, plan and profile sheets, and required structural details. The plan and profile sheets will be prepared at 1"=20' in horizontal and 1"=2' in vertical scale. The lettering style will be prepared in "Arial" font with the corresponding sizes to standard scales. The latest "City Title Block", which will be provided by the City, will be used for the construction plans. The drawings will be prepared in AUTOCAD format. The drawings will be plotted using permanent drafting ink on Mylar sheets in the full size of twenty-four inches by thirty-six inch (24" x 36") sheets. Hanging file tabs will be attached on all the sheets which will be signed by California registered Professional Engineers.
- 10.2 **Specification and Construction Bid Documents** – The final approved Construction Specifications and Bid Documents will be prepared as contract documents for bidding and construction of the project. The documents will be prepared in accordance with the City standard format and signed by California registered Professional Engineers. The 2012 Edition of Standard Specifications for Public Works Construction; The "GREENBOOK" with the 2013 SUPPLEMENT to "GREENBOOK" will be used as governing the entire project. Any additional required provisions from the City or special needs for the project will be included and modify the standard specifications. Any street related technical portion will

SECTION 1

Project Understanding and Approach

use Caltrans Standard Specifications; such as traffic signals, striping, and traffic signs.

- 10.3 The original signed and sealed Mylar drawings and Specifications will be submitted to the City. This package will be transferred into electronic files for City records. The engineering construction cost estimate will be included. The electronic surveying data with related topo map will also be submitted.

TASK NO. 11: INTERIM SUBMITTAL AND FINAL SUBMITTAL

- 11.1 **Interim Level Submittal** – During the interim design stages (80% and 100%), AKM will submit the following requested submittals with the previous red-lined marked sets to the City for finalizing the project: 1) Four (4) sets of the design plans, reports, and documents as described from above tasks; 2) Two (2) sets of signed Geotechnical Report, Potholing Report, Environmental Report, Project Summary Memorandum; 3) One (1) copy of the interactive transmittals, submittals, and letters sent to/receive from utility owners, Homeowner Association, property owners and agencies.
- 11.2 **Final Level Submittal** – The final level submittal is the official contract documents for use in the project bid and project construction. All the construction plans and specifications shall be signed by the responsible parties.

SCOPE OF SERVICES – PHASE 3: ADVERTISING, BIDDING AND CONSTRUCTION SUPPORTS

TASK NO. 1: CONSTRUCTION BIDDING SERVICE

During the bidding phase, AKM and its subconsultant(s) will provide the following services to assist the City.

- 1.1 If requested by the City, AKM will prepare a pre-qualified contractors list to the City for selecting the qualified bidders. This list will be prepared based on recommendations from the City, Riverside County Flood Control, and our experience.
- 1.2 AKM will assist the City in providing responses to request for information, clarification of design plans and specifications, and prepare and issue addenda as needed.
- 1.3 AKM will assist the City staff in evaluating and checking all bids per project requirements and established contract law. AKM will also check bidder's references and licenses.
- 1.4 AKM will prepare a Draft City Council Staff Report for award of construction contract and process the contract agreement with the lowest responsible bidder.
- 1.5 AKM will attend the City Council meeting for award of the contract. AKM will be available to answer questions and defend the project, if necessary during the meeting.

TASK NO. 2: CONSTRUCTION SUPPORT

During the construction stage, AKM will provide the following services to assist the City.

- 2.1 AKM will assist the City by attending the pre-construction meeting to response to request for information related to the construction plans and specifications. After the meeting AKM will prepare and issue the meeting minutes.
- 2.2 AKM will assist the City in responding to questions regarding the construction plans and specifications. For any revisions which are excluded from the original contract documents, AKM will assist the City to review and issue Contract Change Orders (CCO).
- 2.3 AKM will review shop drawings submitted to the contractor to evaluate the construct materials and method in accordance with the contract documents.
- 2.4 If plan revisions become necessary to address unforeseen conditions, AKM will attend the site meetings and provide solutions to ensure the construction is on schedule.
- 2.5 After the completion of the construction, AKM will incorporate all red-line comments prepared by the

SECTION 1

Project Understanding and Approach

contractor and project inspector into the construction plans and create the "As-Built" record plans in final ink Mylar. AKM will sign and provide the final "As-Built" record drawings by the Engineer of Record to the City for approval prior to the release of the final progress payment.

- 2.6 AKM will prepare and submit GASB (Governmental Accounting Standards Board) Statement 34 documents required data in the City's format along with the record drawings to close the project.

SECTION 2

Approach and Management Plan

LEGAL NAME OF FIRM:	AKM CONSULTING ENGINEERS, INC. 553 Wald Irvine, California 92618
YEAR FIRM ESTABLISHED:	1990
CONTACT INFORMATION:	Mr. Zeki Kayiran, P.E. zkayiran@akmce.com Phone: (949) 753-7333 FAX: (949) 753-7320
GENERAL DESCRIPTION:	California Corporation

AKM Consulting Engineers is a multi-disciplined, non-discriminatory, professional organization established in 1990 as a California Corporation to provide water resources engineering services to public agencies. AKM, a SBA Certified Small Business Enterprise, has a current staff of twenty-four (24) employees, including ten (10) professional engineers, and is located in Irvine, California at the intersection of the 5 and 405 Freeways. Our project experience comprises all facets of planning, design and construction management for storm water, wastewater, potable water, and recycled water projects, including civil, electrical, mechanical, structural and chemical engineering. In addition, the AKM offices are fully equipped with the most up-to-date office and CADD equipment, design and modeling packages, word processing, estimating and project management software.

AKM works exclusively for public agencies and our client list includes the Los Angeles County Department of Public Works, Orange County Flood Control District, San Bernardino County Flood Control District, the US Army Corps of Engineers, the Cities of Arcadia, Alhambra, Corona, El Segundo, Glendora, Los Angeles, Manhattan Beach, Monterey Park, Ontario, Palmdale, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Whittier, Anaheim, Brea, Costa Mesa, Cypress, Fountain Valley, Garden Grove, Huntington Beach, La Habra, Mission Viejo, Newport Beach, San Clemente, San Juan Capistrano, Seal Beach, Tustin, Camarillo, Lompoc, Port Hueneme, and San Diego; West Basin Municipal Water District, Central Basin Municipal Water District, Moulton Niguel Water District, Irvine Ranch Water District, South Montebello Irrigation District, Montebello Land and Water Company, and Alameda Corridor Transportation Authority.

The focus of our experience is within Southern California, and all key project team members are fully acquainted with the local and regional issues affecting the planning, design and construction of storm water, wastewater, water, and recycled water facilities. Our experience in stormwater facilities planning, design, and regulatory compliance, as well as the technical and managerial depth of the team, will ensure successful implementation of any project which may be assigned. A full listing of services offered by AKM is as follows:

STORMWATER, WASTEWATER, POTABLE WATER, RECYCLED WATER AND

- Master Plans
- Storm Drains
- Hydrologic Studies
- Hydraulic Analyses
- Flood Flow Retarding Facilities
- Channels
- Collection Facilities
- Pump and Lift Stations
- Permitting and Regulatory Compliance
- Pipeline and Transmission Facilities
- Wells
- Deficiency Reports and Inventories
- Capital and Facilities Plans
- Improvement Plans
- Reservoirs and Lakes
- Water Quality and Environmental Management

SECTION 2

Approach and Management Plan

PLANNING	
<ul style="list-style-type: none">▪ Project Planning▪ Drainage, Sewer, Water, and Recycled Water Master Plans▪ Sewer System Management Plans▪ Economic and Financial Planning	<ul style="list-style-type: none">▪ Conjunctive Use Planning▪ Capital Improvement Plans▪ Rate Studies▪ Urban Water Management Plans▪ Water Supply Assessments
TECHNICAL SERVICES	
<ul style="list-style-type: none">▪ Geographic Information Systems (GIS)▪ Corrosion Control	<ul style="list-style-type: none">▪ Scheduling▪ CADD (Intergraph, Autocad)
CONSTRUCTION SUPPORT	
<ul style="list-style-type: none">▪ Contract Administration▪ Inspection▪ Construction Management▪ Resident and Field Services	<ul style="list-style-type: none">▪ Procurement▪ Start-Up and Acceptance▪ Project Close-Out▪ Estimating

AKM Consulting Engineers employs the "integrated project management" concept to ensure that each project delivers on accuracy, schedule and budget. A work plan is established, and resource loaded work elements and a schedule are prepared at the inception. This schedule and work elements are integrated with the special needs of the project and the client. Regular reporting of project status is provided to the client by monitoring the progress against the established work elements and resource allocations by task. Any slips in schedule, technical difficulties, or unforeseen conditions are promptly addressed. The result is responsible and proactive project management, which leads to successful projects, completed on time and within budget.

INTEGRATED PROJECT MANAGEMENT

Project Identification

- Listen to Client/User
- Ascertain Project Needs
- Identify Problem/Constraints
- Review Schedule
- Review Budget
- Site Review
- Data Review
- Determine Expectations
- Determine Approval Process
- Establish Scope of Technical Services
- Listen to Client/User

Work Program

- Establish Preliminary Work Plan & Schedule
- Establish Work Breakdown Structure (WBS)
- Resource Determination
- Review and Adjustment In Plan & Schedule
- Establish Project Milestones

Technical Execution

- Project Execution
- Internal Quality Control

Project Management

- Progress Reporting: Resource Balance & Tangible Evidence
- Comparison of Progress Reporting with WBS and Resource Loaded Schedule
- Resolution of Discrepancies
- Identification of Source(s)
- Identification of Impact(s)
- Development of Mitigation(s)
- Continuous Coordination

SECTION 2

Approach and Management Plan

COMPUTER APPLICATIONS

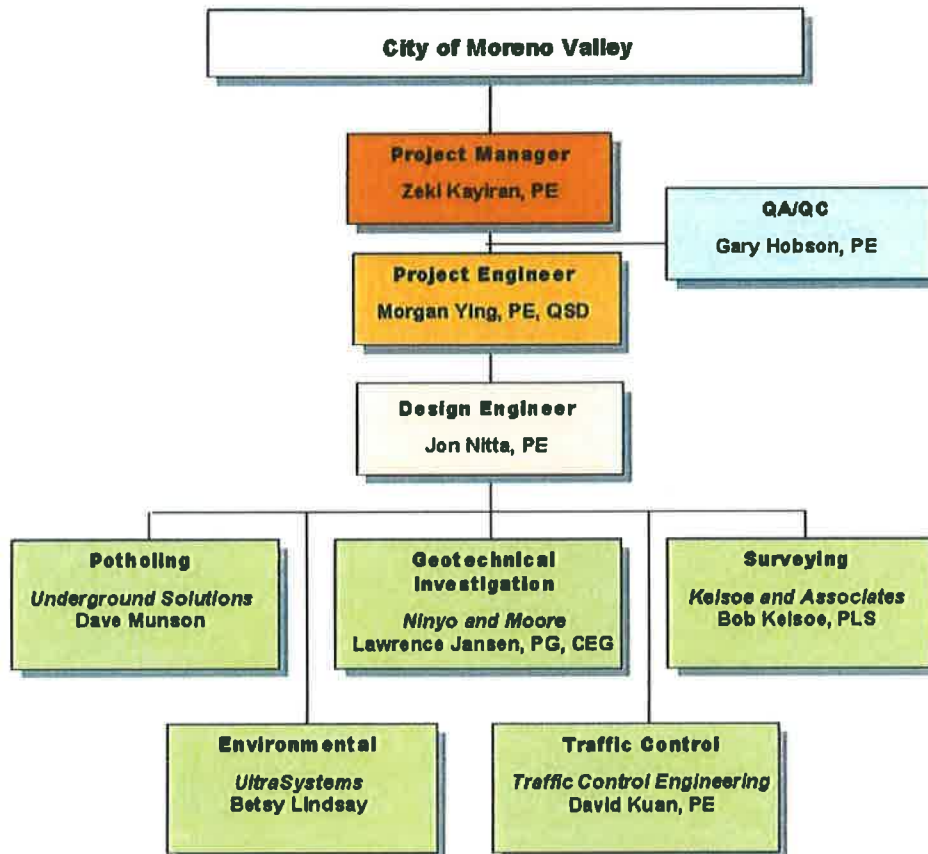
The achievement of superior engineering services is assisted by the continued implementation of advanced computer applications, modeling software, techniques and products. The office maintains in-house CADD capabilities, and engineering design work and computations are computer based. An in-house library of standard software application packages is maintained and continually updated.

QUALIFICATIONS

AKM Consulting Engineers, by virtue of its extensive relevant experience, specialized training, local knowledge, and technical competence, can provide the City of Moreno Valley with first rate engineering consulting services. All proposed team members possess experience directly related to all facets of storm drain planning, design, and construction support.

PROJECT ORGANIZATIONAL CHART

The Project Team organization is illustrated on the Project Organizational Chart in this section, along with detailed resumes describing specific experience of the Project Team members. In addition to the key personnel shown on the following project organizational chart, AKM has 15 additional support personnel available to assist on projects, as necessary.



SECTION 3

Qualifications and Experience

The personnel of the AKM Project Team have a long and distinguished track record in the performance of quality engineering services, especially with respect to planning and design of storm drain systems. AKM's Project Team provides the requisite technical expertise for all anticipated project requirements.

Specific examples of AKM's experience follow. These projects are representative of the types of projects that the team members have completed. These projects are directly relevant for consideration within the content of the proposed project. All projects were performed by the individuals listed for project assignment and required a level of performance and addressed technical issues similar to those required by the proposed project.

ASPEN/GRAHAM/WALKER STREET STORM DRAIN PW PROJECT NO. 86 - CITY OF CYPRESS

CONTACT: MR. DOUG DANCIS, DIRECTOR OF PUBLIC WORKS/CITY ENGINEER (714) 229-6744

AKM STAFF: Z. KAYIRAN (PM), J. LOAGUE (PM), R. WONG (SE), G. HOBSON (QA/QC)

CONSTRUCTION COST: \$4,023,800

AKM is responsible for a hydrology study covering a drainage boundary of 110 acres, and hydraulic analyses for sizing a drainage system to convey the 25-year high confidence storm runoff. The project is proposed to replace the existing 60-inch pipe with a larger facility to meet the County of Orange flood protection criteria. The proposed storm drain system includes 857 feet of 6' (w) x 4' (h) RCB, 120 feet of 5' (w) x 4.5' (h) RCB, 246 feet of 5' (w) x 3.5' (h) RCB, 1,320 feet of 72-inch RCP, 294 feet of 48-inch RCP, 385 feet of 42-inch RCP, 209 feet of 36-inch RCP, 198 feet of 30-inch RCP, and 480 feet of 24-inch RCP. Because of shallow outlet facilities, two local sumps in the upstream drainage system, shallow ground cover was a very stringent restriction to the design. Therefore, various sizes of reinforced concrete boxes and pipes were incorporated into the design to best fit the street profiles and the existing utility crossings. Other restrictions of the project include high backwater level from Carbon Creek Channel (OCFCD Facility No. B01), providing protection at the two local sump areas, a 78-inch high pressure waterline crossing, and a local deficient sewer line crossing. Due to the above restrictions, series of hydraulic analyses were conducted to ascertain that the system could meet the design criteria. This project also includes the construction of 400 feet of 8-inch sewer line for diverting the existing sewer flow from Belle Avenue to Ball Road in order to eliminate a high maintenance sewer siphon on Belle Avenue. A Water Quality Management Plan (WQMP) is prepared for complying with the requirements of the local NPDES Stormwater Program. In order to meet the requirements, several of Best Management Practices (BMPs) were recommended, including a biotreatment system to minimize the stormwater pollution by using an environmental green system.

ELECTRIC AVENUE STORM DRAIN - CITY OF SEAL BEACH

CONTACT: MR. SEAN CRUMBY, DIRECTOR OF PUBLIC WORKS (562) 431-2527 x1318

AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), R. WONG (SE)

CONSTRUCTION COST: \$1,660,000 **A/E FEES:** \$151,000

The Electric Avenue drainage boundary covers 106 acres of residential area. Since the drainage boundary is subdivided by a long stretch of a community park, a dual drainage system with several laterals was constructed in different phases starting as early as 1940's. The major drainage system, a 54-inch RCP, conveys the runoff to the Orange County Flood Control District's Seal Beach Pump Station (Facility C00PS1), which was constructed in 1971. The original pump station was designed to convey the peak 10-year storm runoff of 255 cfs to Anaheim Bay. Later, the pump station was upgraded to handle the peak, 25-year storm runoff of 403 cfs. The existing storm drain system deficiencies cause flooding problems in the Old Town community.

A new parallel drainage system consisting of 1,141 feet of 66-inch RCP was constructed to convey the entire 25-year peak storm runoff to the pump station. Additional lateral systems to the main line including 200 feet of 36-inch RCP, 55 feet of 30-inch RCP, 545 feet of 24-inch RCP, and 620 feet of 18-inch RCP were constructed.

DEFICIENCY STUDY - ORANGE COUNTY FLOOD CONTROL DISTRICT

CONTACT: MR. KEVIN ONUMA, MANAGER FLOOD PROGRAM (714) 647-3939

AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), R. WONG (SE), J. NITTA (HYDRAULIC STUDIES)

A/E FEES: \$126,356

AKM prepared the Channel Inventory List and supporting Deficiency Study of the Regional Flood Control Facilities serving the entire County. The Channel Inventory List consisted of documenting all reaches of the regional channels by their characteristics (base width, height, side slopes, grade elevations, longitudinal slope, Manning's coefficients, record drawing number and its date, and a symbol to identify the facility geometrics.

SECTION 3

Qualifications and Experience

Deficiency study consisted of reviewing all available hydrologic data to determine the design discharges for the channel reaches identified in the Channel Inventory List, determining the hydraulic capacity of each reach of channel, assessing its ability to convey the design discharge, identifying the deficient reaches, formulating planning level projects to eliminate the deficiencies, and estimating project costs for improving the deficient reaches. The deficiency study also included evaluating all the retarding basin and storm water pump station capacities, and developing cost estimates for eliminating the identified deficiencies in these facilities.

As part of this study, AKM prepared the Outcome Indicator, which is a measuring tool utilized in the County Business Plan. Outcome Indicator consists of a summary of the facilities in each watershed, including the total length of facilities improved to ultimate condition, total length of facilities proposed to be improved to ultimate condition, the total length of all regional facilities, and percentage of improved regional facility versus the total Flood control District owned regional facilities.



Electric Avenue (north) - Catch Basin Inlet



Electric Avenue Storm Drain

CANDLEBERRY AVENUE STORM DRAIN - CITY OF SEAL BEACH

CONTACT: MR. SEAN CRUMBY, DIRECTOR OF PUBLIC WORKS (562) 431-2527

AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), R. WONG (SE), D. PAY (HYDRAULIC STUDIES)

CONSTRUCTION COST: \$1,780,000

The Candleberry Avenue drainage boundary covers 77 acres of residential area. The existing drainage system included two outlets, 33-inch RCP and 3.25' (W) x 1.75' (H) RCB which drain into the Old Ranch Golf Course detention basin. These drains could convey only 9 cfs of the total tributary 25-year flow of 97 cfs. Because of the deficiency of the existing system, the College Park East community experienced flooding problems. The new drainage system consisted of 470 feet of double 5' (W) x 3' (H) RCB designed to convey the 25-year peak flow of 88 cfs to the golf course detention basin, and 135 feet of 7' (W) x 2.25' (H) RCB lateral on Aster Street. The connector pipes are 30-inch, 24-inch, and 18-inch RCPs. The project's challenges included a 34-inch high pressure gas line crossing, very limited space due to the existing parallel storm drains, and a high downstream water surface control elevation in the detention basin. The project required the construction of a sewer diversion system which consisted of 700 feet of 18-inch to 8-inch diameter pipe, and 1,425 feet of 16-inch to 6-inch diameter water main.



Candleberry Avenue Storm Drain - Double 5-ft. (W) x 3-ft. (H) RCB Outlets to Old Ranch Golf Course Detention Basin

MASTER PLAN OF DRAINAGE - CITY OF SEAL BEACH**CONTACT: MR. SEAN CRUMBY, DIRECTOR OF PUBLIC WORKS (562) 431-2527 x1318****AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), D.PAY (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. NITTA (HYDROLOGIC STUDIES)****A/E FEES: \$50,000, UPDATE: \$120,000**

AKM prepared the City's first Master Plan of Drainage in 1999 and the Master Update in June, 2008. The study included developing and updating of the existing system facility information, hydrologic and hydraulic analyses, formulation and evaluation of alternative mitigation measures, prioritization, cost estimates and report preparation. The City area includes 11.2 square miles, and drains to San Gabriel River, Los Alamitos Channel, Kempton Storm Channel, Montecito Storm Channel, Bixby Storm Channel, Federal Storm Channel, and the Pacific Ocean. Portions of the City of Los Alamitos and the unincorporated Rossmoor area drain through the City facilities. AKM collected and reviewed all existing Project Reports from Orange County Public Works and the US Army Corps of Engineers to establish downstream water surface control elevations in the regional facilities.

AKM developed drainage criteria in cooperation with the City. The 1986 Orange County Hydrology Manual and subsequent addenda, and the Local Drainage Manual formed the basis of the criteria, including modifications for the existing facility constraints. Hydrologic studies were conducted for the high confidence 10 and 25-year frequency design storms.

One of the key tasks in the project was the detailed hydraulic analyses that enabled AKM to accurately define the deficiencies in the storm drain system. The development of accurate computer models of the drainage system allowed AKM to maximize the capacity of the existing storm drains, thereby minimizing the amount of additional facilities required. AKM modeled the entire drainage system utilizing the Water Surface Pressure Gradient (WSPG) program developed by the Los Angeles County Department of Public Works.

Recommended relief and replacement facilities were identified and prioritized, including improvements to the West End Storm Water Pump Station. System extension recommendations were also made to meet the flood protection criteria. Cost estimates were developed based upon recent construction costs, and a final report was prepared summarizing the analyses and recommendations.

AKM also formulated projects to comply with NPDES requirements, including urban runoff diversion to the sanitary sewer system. AKM participated in study sessions and public presentations.

ETIWANDA/SAN SEVAINE AREA MASTER PLAN OF DRAINAGE UPDATE - CITY OF RANCHO CUCAMONGA**CONTACT: MR. WALT STICKNEY, ASSOCIATE CIVIL ENGINEER (909) 477-2740 x4076****AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), D.PAY (HYDRAULIC ANALYSIS), J. NITTA (HYDROLOGIC STUDIES)****A/E FEES: \$76,000**

AKM updated the original Master Plan, which was prepared by AKM's proposed Project Manager in 1989, to reflect the current land use and circulation system, and the constructed drainage facility information. The study identified the interim and ultimate facilities necessary to provide flood protection for the peak runoff resulting from a high confidence 100-year storm in the 82 square mile easterly portion of the City and the sphere of influence area tributary to the Etiwanda and San Sevaive Creeks. It identified the cost of implementing the facilities, and developed a fair and equitable method of apportioning it to defray the cost of the facilities. It developed drainage fees for the Regional Mainline Facilities (design flow 3,000 cfs or greater), secondary regional facilities (design flow 750 cfs to 3,000 cfs), and Master Plan Facilities (minimum tributary area of 80 acres). The study included preparation of hydrologic studies (10, 25, and 100-year events), hydraulic analyses utilizing the WSPG program, sizing of 32,000 feet of drainage facilities yet to be constructed, preparation of the updated Master Plan of Drainage Report, and determination of the new drainage fees.

SECTION 3

Qualifications and Experience

DRAINAGE MASTER PLAN - CITY OF INGLEWOOD

CONTACT: MR. ERIC ESCOBAR (CURRENTLY SENIOR WATER ENGINEER FOR THE CITY OF RIVERSIDE) (951) 826-5285

AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), D.PAY (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. NITTA (HYDROLOGIC STUDIES)

A/E FEES: \$224,000

The City's first Master Plan of Drainage was completed by AKM in April 2007. It included development of drainage criteria, system inventory, hydrologic studies, hydraulic analyses, recommended improvements, prioritization, cost estimates, and report preparation. As a supplement to the project, AKM completed the storm drain GIS, which included an extensive surveying effort.

The scope of work included hydrology studies of the 12.6 square mile watershed within the Dominguez Channel and Ballona Creek regional watersheds for the Capital Flood, which results from a 50-year storm. The Watershed Modeling System (WMS) software was utilized to run the Los Angeles County's Modified Rational Method.

The hydraulic analyses were conducted with the use of the WSPG program to evaluate the existing system, and select the recommended improvements.

Improvement projects were evaluated and prioritized, and the cost estimates were prepared based upon recent information for similar projects in the Southern California area.

DRAINAGE MASTER PLAN - CITY OF CYPRESS

CONTACT: MR. DOUG DANCS, DIRECTOR OF PUBLIC WORKS (714) 229-6744

AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), D.PAY (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. NITTA (HYDROLOGIC STUDIES)

A/E FEES: \$160,000

AKM prepared the City's Master Plan of Drainage Update in May, 2007. The scope of work included development of a complete system inventory, preparation of a storm drain GIS shapefile, hydrologic studies to develop design discharges; hydraulic analysis of the existing facilities, as well as the system with the future alternative facilities; development of recommended improvements as well as their estimated cost of implementation; prioritization of improvement projects; and the draft and final report.

AKM developed the drainage criteria in conjunction with the City staff based upon the 1986 Hydrology Manual, its addenda, and the Local Drainage Manual, modified for the special conditions of the service area. The Rational Method hydrology studies were conducted using the RMH OC Version 6.6e computer program for high confidence 10-year and 25-year frequency design storms.

The study area is tributary to Coyote Creek, Carbon Creek, Moody Creek, Los Alamitos Channel, and Bolsa Chica Channel. AKM obtained the Project Reports and other studies from the Orange County Public Works in establishing downstream water surface control elevations for use in the hydraulic analyses.

This project entailed developing accurate computer models of the entire drainage system to determine the hydraulically deficient locations. The existing system was modeled with the Water Surface Pressure Gradient (WSPG) program developed by the Los Angeles County Department of Public Works. The recommended improvement projects were developed following evaluation of alternative mitigation projects also utilizing the WSPG program, and included relief and replacement projects, as well as system extensions to meet the flood protection criteria. The Master Plan included improvement recommendations for three (3) of the City's four (4) pump stations. The cost estimates of the entire system were prepared based upon recent information for similar projects in the Southern California area.

AKM prepared a presentation in cooperation with the City staff and participated in the study sessions and public presentations.

SECTION 3

Qualifications and Experience

FLOMAR STORM DRAIN - CITY OF WHITTIER DEPARTMENT OF PUBLIC WORKS

CONTACT: MR. LEON YEHUDA, CITY ENGINEER/ASSISTANT DIRECTOR OF PUBLIC WORKS (RETIRED) (949) 654-7811

AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), D.PAY (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. NITTA (HYDROLOGIC STUDIES), R. WONG (SE)

CONSTRUCTION COST: \$1,550,000 **A/E FEES:** \$93,892

The Flomar Drain tributary area covers 68 acres and is served by an existing reinforced concrete box with a capacity of 30 cfs. The entire tributary area is in a sump condition and the tributary peak 50-year flow is 130 cfs. The existing drainage system has grossly inadequate capacity and has caused significant ponding, property damage, and impaired access to properties on Flomar Drive. Also, lack of storm drains, flat grades, and pavement lifted by tree roots all contributed to ponding of urban runoff and created vector problems for the residents.

AKM conducted hydrologic studies, and hydraulic analyses with the use of the WSPG program. The results of these analyses led to the design of the new drainage system that provided protection from the 50-year storm peak flow for the tributary watershed. The recommended system included reinforced concrete box sections to accommodate the presence of shallow downstream outlet drains. AKM prepared final plans, specifications, and estimates for the project consisting of 1,575 feet of facilities varying in size from 6'W x 3.5'H reinforced concrete box at the downstream end of the project to 24-inch reinforced concrete pipe at the upstream end. AKM provided construction support services for the project, which was administered by the US Army Corps of Engineers.



Downstream portion of 6.0'Wx3.5'H Reinforced Concrete Box

CORSAIR WAY STORM DRAIN (2006)

CITY OF SEAL BEACH

CONTACT: MR. SEAN CRUMBY, DIRECTOR OF PUBLIC WORKS (562) 431-2527x1318

AKM STAFF: Z. KAYIRAN (PM), M. YING (PE), D.PAY (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. NITTA (HYDROLOGIC STUDIES), R. WONG (SE)

A/E FEES: \$376,200

The Corsair Way drainage boundary covers 12 acres of residential area with a peak 25-year storm runoff of 18 cfs. Since the existing catch basins with undersized drainage system were located at a local sump area, street flooding occurred frequently during the rainy season. The new drainage system consisted of a single 5' (W) x 1.25' (H) RCB, a double 6' (W) x 3' (H) RCB with junction structures. The greatest challenges of designing and constructing this project were: in a narrow street, limited grade drop, shallow non-RCB sewer



Corsair Way Storm Drain

**CITY OF MORENO VALLEY
SAN TIMOTEO FOOTHILL DRAINAGE**

3-5

AKM Proposal No. 13-1103

SECTION 3

Qualifications and Experience

across, numerous of utility crossings, connecting to an existing double 6' (W) x 3' (H) RCB which is underneath a housing property, and establishing a downstream control for the system. AKM provided the fully construction support services for the project, which were administered by the City of Seal Beach.

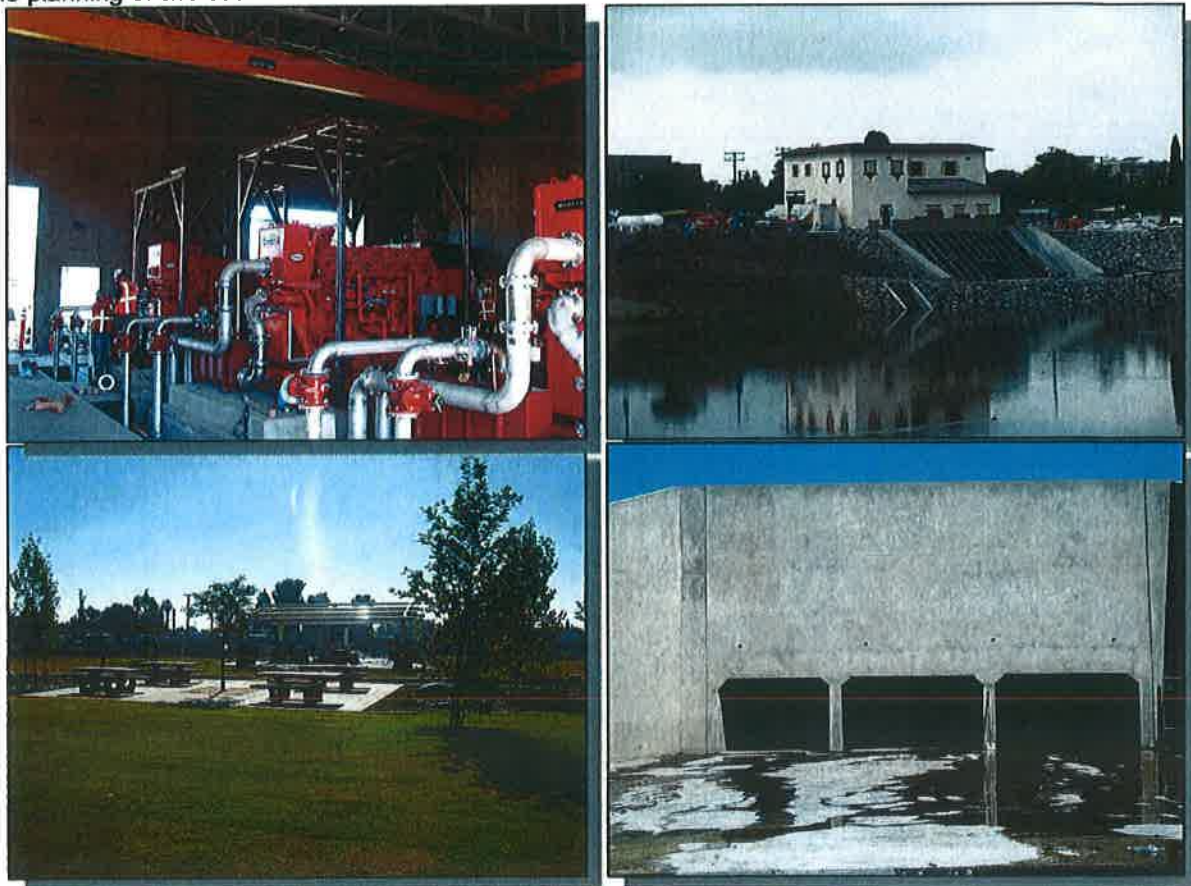
HASTER RETARDING BASIN AND STORMWATER PUMP STATION - ORANGE COUNTY PUBLIC WORKS

CONTACT: MR. JIM VOLZ, SENIOR CIVIL ENGINEER (714) 647-3904

AKM STAFF: Z. KAYIRAN (PM), J. LOAGUE (PE), M. YING (HYDROLOGIC STUDIES, HYDRAULIC ANALYSIS), G. HOBSON (QA/QC), R. WONG (SE)

CONSTRUCTION COST: \$25,000,000 **A/E FEES:** \$2,900,000

Haster Basin was a 200 acre-foot retarding basin located on a 22 acre site in the City of Garden Grove. The Orange County Flood Control District retained AKM to evaluate alternatives and prepare construction documents to allow the Basin to attenuate the 100-year expected value peak flow from the upstream (2,200 cfs) to the downstream channel capacity of 400 cfs. AKM's scope of work included the preparation of a comprehensive Preliminary Design Report, design of improvements to meet the identified project objectives; and a Basis of Design Report documenting the steps and calculations used in the design of the project. The final project includes a 460 cfs pumping station incorporating three 153.4 cfs mixed flow pumps operated by three 845 HP natural gas/LPG engines; re-grading of the existing Basin to increase its existing volume by 50 ac-ft; water quality features in accordance with the County's Drainage Area Management Plan; various site improvements to facilitate maintenance access to the facility, and joint use of the overall site as a community park with 2 soccer fields, and architectural enhancements to the proposed pump station building consistent with the character of the surrounding area. AKM verified the hydrologic studies and conducted hydraulic analyses of the East Garden Grove-Wintersburg Channel to ascertain that the outflow from the basin could be safely conveyed downstream. AKM developed modifications to a 100-ft long section of the channel to increase its capacity from 400 cfs to 460 cfs, which in turn reduced the flood flow storage volume and allowed the planning of two soccer fields at the site.



Haster Retarding Basin and Stormwater Pump Station

**CITY OF MORENO VALLEY
SAN TIMOTEO FOOTHILL DRAINAGE**

3-6

AKM Proposal No. 13-1103

SECTION 3

Qualifications and Experience

The project includes 700 feet of triple box culvert inlet drain (double 11.5' W X 6' H and a 9' W X 6' H). AKM processed the structural design of the pump station, channel modifications, and the triple box inlet channel through the County's Building Department.

AKM provided engineering services during construction of the \$26 million project, which started in August 2012, and is scheduled for completion in January 2014.

MYRA AVENUE IN-LINE DETENTION BASIN, STORM DRAINS, AND STORMWATER PUMP STATION NO. 2 - CITY OF CYPRESS

CONTACT: MR. DOUG DANCs, DIRECTOR OF PUBLIC WORKS/CITY ENGINEER (714) 229-6744

AKM STAFF: Z. KAYIRAN (PM), J. LOAGUE (PE), M. YING (HYDROLOGIC STUDIES, HYDRAULIC ANALYSIS), G. HOBSON (QA/QC), R. WONG (SE)

STORM DRAIN: \$3,500,000, PUMP STATION \$2,435,000

Pump Station No.2 is one of four storm water pump stations owned and operated by the City of Cypress, which pump tributary runoff to Carbon Creek Channel. The City's Master Plan of Drainage Update completed by AKM in 2007 determined that three of these pump stations, including Pump Station No.2 could not provide the flood protection in accordance with the established criteria (expected value 100-year flood). AKM completed a preliminary design report in 2008, which evaluated alternative solutions, and recommended a project with an in-line detention basin on Myra Avenue, tributary storm drain system, and upgrading of the existing pump station at the existing capacity, utilizing its existing wet well. This alternative was selected because the existing pump station is located on a very narrow lot with adjacent residences on both sides; and the groundwater is only 3 feet below existing ground surface. Any deep dewatering would have placed the adjacent houses in jeopardy. An alternative was to purchase two adjacent properties and construct a deeper facility. However, the City could not find willing sellers. The in-line detention basin was sized as 1,351 feet of 14' (W) x 4.5' (H) reinforced concrete box.

AKM provided bidding support, and complete construction inspection and management services for the construction of the pump station and the in-line detention basin was designed with pre-cast reinforced concrete boxes to minimize the inconvenience to the residents of the area.



Reinforced Concrete Box



Finished Superstructure

SECTION 3

Qualifications and Experience

CAMERON RANCH SPECIFIC PLAN PROJECT – RIVERSIDE COUNTY, CALIFORNIA (ULTRASYSTEMS ENVIRONMENTAL)

KOJIMA DEVELOPMENT COMPANY

CONTACT: MR. DON KOJIMA, PRESIDENT (949) 640-2682

UltraSystems Environmental was hired by the Kojima Development Company to prepare an Environmental Impact Report (EIR) and associated studies for the Cameron Ranch Specific Plan Project. The County of Riverside, Planning Department is the Lead Agency under the California Environmental Quality Act (CEQA).

The Proposed Project is located 0.2 mile west of the Banning Idyllwild Panoramic Highway (HWY 243) within the unincorporated portion of Riverside County known as The Pass. The project site is 609-acres of vacant hilly terrain covered with various types of vegetation including: California Coastal Sage Scrub, chaparral, riparian scrub habitat and oak trees, and scattered trees or their remnants. In addition, three special-status vegetation communities have been identified within the project site: Thick-Leaf Yerba Santa Scrub community, Cup-Leaf (Desert) Ceanothus Chaparral community, and the Coast Live and Black Oak Woodland community. The Proposed Project includes the construction of approximately 154 single-family residential lots, and associated infrastructure on the project site. Residential lots would range in size from less than 0.5 acre to approximately 1 acre. The Proposed Project would also provide a graded trail network for recreational purposes.

UltraSystems' role has been the preparation of all necessary environmental documentation in accordance with CEQA, and associated technical studies, including: Visual Impact Assessment, Biological Assessment, Tree Survey, Wetland Study, Air Quality Technical Study, Greenhouse Gas Technical Study, Historic Report, Cultural Report, and Noise Study. UltraSystems' subconsultants have assisted the environmental document through the preparation of: Residential Specific Plans, Design Plans, Geotechnical Plans, Hydrological Plans, Water Assessment, Utility and Infrastructure Plans, Paleontological Study, and Traffic Report.

Complexities – This project contains wetlands and native vegetation which increased the project complexity by requiring a Biological Assessment, a Tree Survey, a Wetland Survey, and biological mitigation to reduce impacts to the site. As a result of the location of the project site Cultural Resources were a concern. The historic Idyllwild –Banning Stage Coach Route is located on the project site and due to the location of the Morongo Indian Reservation in relation to the project site, there was a potential for cultural resources to be located on site. In addition, the project site is located in a high fire hazard zone, which required mitigation to further reduce impacts.

AVENIDA COLUMBO STORM DRAIN EXTENSION PROJECT – SAN CLEMENTE, CALIFORNIA

(ULTRASYSTEMS ENVIRONMENTAL)

CITY OF SAN CLEMENTE

CONTACT: MR. AMIR K. ILKHANIPUR, SENIOR CIVIL ENGINEER (949) 361-6140

CONTRACT DURATION: 10/01/2012 – PRESENT

CONTRACT AMOUNT: \$53,271

The proposed project will extend an existing storm drain line down an embankment. A new, above-ground 24" High Density Polyethylene (HDPE) pipe will be connected to an existing 24" reinforced concrete pipe (RCP). The existing storm drain line is an underground 24" reinforced concrete pipe (RCP) that extends approximately 46 feet from the upstream catch basin at the end of the cul-de-sac down the canyon and outlets on the hillside into a catch basin. The existing pipe does not extend to the bottom of the canyon.

The new pipe will extend approximately 200 feet from the curb to the bottom of the canyon. Drainage that flows through the new pipe will be collected in an energy dissipater outlet structure with a precast concrete vault that discharges to a riprap apron. Flow will be dispersed within the canyon bottom, then traverse through canyon vegetation, before it drains into a flood control facility.

Work Scope: UltraSystems Environmental was hired by the City of San Clemente to prepare an Initial Study and Mitigated Negative Declaration (MND), associated technical studies and regulatory permits for the Avenida Columbo Storm Drain Extension Project. The Project is located within the southeast portion of the City of San Clemente, Orange County, California. It is located north of the San Onofre State Beach Park, southeast of Cleveland National Forest and west of the Golden State (I-5) Freeway. The project site is located

SECTION 3

Qualifications and Experience

on a steep slope and is surrounded by open space to the north, west, and east with single-family homes to the south. Uses within the project vicinity are residential and open space. The project is within the Orange County.

Project Highlights: UltraSystems' role has been the preparation of all necessary environmental documentation in accordance with CEQA, and associated technical studies, including: Biological Assessment, Wetland Study, Air Quality Technical Study, Greenhouse Gas Technical Study, Cultural Report, Geotechnical Plans, and Noise Study. Regulatory permits have included: 401, 404 and 1602 for this project.



The engineering organization and project team proposed by AKM are structured to respond to the technical and managerial requirements of the project by assigning very senior, highly qualified personnel to the work. They will function in a simple organization with clear lines of delegated authority and responsibility.

Our project manager will be the principal point of contact with the City, and will have full technical and administrative responsibility for the work. The team assembled for the project includes all of the major disciplines required to expeditiously complete the assignment. They have extensive experience in the planning, design, and construction of drainage systems.

All identified personnel will be assigned to the project. All project team members have long tenure with AKM, and we do not reassign or substitute staff assigned to specific projects. If a team member should become unavailable, AKM will not substitute other staff or subconsultants without written approval from the City. The following provides brief descriptions of their roles and experience. Our project team organization is also illustrated in this section.

Project Manager – **Mr. Zeki Kayiran P.E.** will serve as Project Manager. He is a firm principal with 40 years of experience in the planning, design, and construction of major storm water, water, recycled water, and wastewater facilities. Mr. Kayiran will monitor methods and procedures of project implementation. His responsibilities will include:

- Exploring innovative technical approaches from the beginning of the project
- Providing technical guidance to the project team throughout the project
- Collaborate in resolving technical issues
- Reviewing the work weekly to ensure its accuracy and timely completion
- Coordination with Moreno Valley staff
- Participation in public presentations and meetings

QA/QC Manager - **Mr. Gary Hobson, P.E.**, a Principal Engineer of AKM with 36 years of experience in water resources engineering, will be responsible for QA/QC. Mr. Hobson's professional experience in storm water, water, wastewater, and water reuse systems covers client and project management, planning, design, and construction support services for a variety of public works projects in both local and federal government sectors. Mr. Hobson participated in quality control and value engineering teams for multi-disciplinary engineering projects. His responsibilities will include reviewing the work at key milestones to ensure that the work product meets the high standards for technical excellence.

Project Engineer – **Mr. Morgan Ying, P.E.**, is proposed to serve as the Project Engineer for the project. Mr. Ying has over 32 years of responsible experience in the planning, design, and construction of major storm drain facilities. He has the requisite knowledge and experience and demonstrated ability for completing challenging work with demanding schedules and budgets. Mr. Ying will be responsible for project supervision of AKM staff and sub-consultants' work, hydrology and hydraulic studies; development of plans, technical specifications, construction cost estimates; bid documents/services. He will be actively and continuously involved in the day-to-day work effort for this project.

Design Engineer – **Mr. Jon Nitta, P.E.**, an Associate with AKM, has extensive working knowledge of hydraulic and hydrologic methods and software, having used them on master plans of drainage and storm drain design. His experience includes Master Plans of Drainage for the City of Inglewood, Seal Beach, Cypress, and Rancho Cucamonga, and storm drain design for the Cities of Seal Beach, and Whittier. During the preparation of hydrologic studies, Mr. Nitta will be fully committed to the project under the direction of the Project Engineer.

SUBCONSULTANTS

The AKM Team includes the following specialty subconsultants who will provide geotechnical, environmental, potholing, traffic control, and surveying services to complement AKM's in house staff. We have worked with each of the proposed subconsultants on numerous successful projects, similar in nature to the work which will be required in Moreno Valley. Ninyo and Moore will provide geotechnical support, UltraSystems will provide environmental services, Underground Solutions will provide potholing services, Traffic Control Engineering will provide traffic control services, and Kelsoe and Associates will provide surveying and mapping services,.

GEOTECHNICAL INVESTIGATION - NINYO & MOORE GEOTECHNICAL - 475 GODDARD, SUITE 200, IRVINE, CA 92618

Ninyo & Moore a California Corporation incorporated in 1986, is a 100% minority-owned, multidisciplinary consulting firm that provides high-quality geotechnical and environmental consulting services, construction inspection and testing, engineering geology, hydrogeology, hazardous waste remediation and environmental assessment. As a Principal Geologist for Ninyo & Moore, Lawrence Jansen, P.G., C.E.G., with over 20 years experience in providing geotechnical services, will direct and supervise the geotechnical investigations, the final project report, and the material test results.

ENVIRONMENTAL - ULTRASYSTEMS - 16431 SCIENTIFIC WAY, IRVINE, CA 92618

UltraSystems Environmental Incorporated (UltraSystems) is a full-service, planning and environmental consulting firm, serving both public and private sector clients throughout Southern California. UltraSystems utilizes a broad range of experience with residential, commercial, industrial, institutional, and infrastructure-related projects to prepare legally defensible studies in full compliance with Cal-EPA toxics regulations, Public Health and Safety Code guidelines, the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) guidelines. UltraSystems is striving to become the leading provider of environmental review, compliance, and monitoring support to the Southern California agencies and businesses through a combination of unparalleled results, commitment to quality, and professionalism.

UTILITY POTHOLING - UNDERGROUND SOLUTIONS, INC. - 6549 MISSION GORGE RD., STE. 335, SAN DIEGO CA 92120

Underground Solutions, Inc. will provide utility potholing services during the design stages. Underground Solutions, Inc. and their team of highly qualified operators are committed to fast, safe and accurate utility locating services utilizing non-disruptive "air excavation" pot holing. High velocity air delivers the power to cut precise holes into the earth while not damaging the utility being located. Using a "dry" system, allows for more economical and environmentally friendly excavations. Underground Solutions' responsibility will be to provide the underground facility information; such as material type, size, and the depth of utility.

TRAFFIC CONTROL - TRAFFIC CONTROL ENGINEERING - 2687 SATURN STREET, BREA, CA 92821

Traffic Control Engineering is a DBE/MBE certified by the Port of Long Beach, San Diego County Water Authority, and City of Los Angeles. David Kuan, P.E., R.T.E., will oversee the preparation of traffic control plans for the tasks that require these services. He has a substantial track record in preparing traffic management plans and construction traffic control plans. Traffic Control Engineering's familiarity with local government requirements will be a great asset in assuring timely project completion. Mr. Kuan will be responsible for providing construction traffic control plans.

SURVEYING - KELSOE AND ASSOCIATES - 8745 KENDRA LANE, CORONA, CA 92880

Surveying work be completed by *Kelsoe and Associates* under the direction of Mr. Robert Kelsoe, PLS. Mr. Kelsoe has more than 20 years experience in the land surveying profession. He is a licensed land surveyor in the State of California and Nevada and is in responsible charge of the firm's land surveying activities. He will be responsible for performing control surveys and supplemental detailed surveys to define the property, topography, and site facilities, and develop the base sheets for use in design. Mr. Kelsoe will be responsible for providing all the required surveying data, including details of existing facilities, and ground topographic mapping. He will also prepare all documents and legal descriptions needed for easement/right-of-way acquisition.

RESUMES

Brief resumes of our proposed team are located in Appendix A. Resumes include related experience, education, and professional credentials.

AKM's work plan is illustrated in the schedule in Appendix C. It includes all elements contained in the scope of work, and will be executed by the staffing resources defined in Section 1 – Project Understanding. The work hour breakdown spreadsheet is contained in the Fee Proposal (a separated submittal). The work plan, schedule, and man-hour estimate are driven by the overall project objective of completing the construction plans, construction documents, bid service, and construction support service in sufficient time to award the project to a construction contractor and completion of the construction by no later than March 2016.

In general, the work plan and schedule will proceed in three different phases:

PHASE 1: 35% LEVEL COMPLETION (APRIL 2014 TO AUGUST 2014)

- 1) Immediately upon receipt of notice to proceed, AKM will coordinate a comprehensive project review. Its purpose will be to establish a sound basis for project initiation, provide an introduction of all project participants, and serve as an initial opportunity for all project related goals, concerns, specifics, constraints, agreements, and previous work to be reviewed. Project assignments, expectations, and responsibilities will be outlined and milestone target dates will be confirmed. The regular meeting schedules will be set up to ensure that the responsibility party, work plan and its budget will be monitored at each meeting. AKM will send out the first utility request letters to the various agencies with facilities within the area of work.
- 2) Within one week of receiving notice to proceed, AKM will initiate the aerial/ground survey, geotechnical, and environmental services. In the meantime, AKM will schedule to conduct the kick-off meeting and site reconnaissance to become familiar with the project and the site conditions.
- 3) Concurrent with the survey, as-built utility information, and geotechnical work, AKM will commence a detailed review of all available storm drain alignments. The potholing service will be initiated to investigate the potential conflicts to the future storm drain system.
- 4) During this period, AKM will also begin the process of confirming information in the City Project Report. AKM will conduct the hydrology study, storm drain alignment alternatives, utility crossing investigation, right-of-way research, traffic control plan, and determine the requirements of permitting.
- 5) Once surveying and utility research are complete, the base map will be established to develop the plan and profile sheets of the proposed storm drain system. A hydraulic analysis will be conducted to size the drainage system and each inlet structure. The street centerline, property line, and right-of-way with associated existing and proposed utilities and storm drain system will be clearly shown on the plan view and its profile sheets. All this processed information will be presented in the monthly PDT meeting and will be updated at the subsequent meetings.
- 6) AKM will continue coordinating with the City, utility owners, public agencies, and homeowners association to finalize the preliminary storm drain plans. At this stage, issues of utility conflicts, storm drain alignment, environmental conditions, preliminary right-of-way/easement, and permit requirements shall be resolved.
- 7) AKM will prepare the Project Summary Memorandum, per City Project Report, and a construction cost estimate will be established in the City required formats based on the 35% construction plans. At this stage, the proposed storm drain system with the associated right-of-way/easement shall be clearly shown on the design plans.
- 8) At the end of August 2014, AKM will complete and submit the 35% design plans, surveying data, geotechnical report, potholing information, initial approved hydrology and hydraulic results, and initial environmental study report.

PHASE 2: 100% LEVEL COMPLETION (SEPTEMBER 2014 TO JANUARY 2015)

- 1) AKM will continue to manage the project, attend required meetings, and coordinate with the agencies/utility owners and affected parties. Any concerns/issues carried from Phase 1 Design will be resolved and incorporated into the final design plans and/or the related project reports.
- 2) While the City and other agencies/parties are reviewing the Phase 1 Submittal, AKM will begin working on the Final Construction Package. The continuation of finalizing the design plans, right-of-way engineering and documents, environmental clearance report, initiating the Stormwater Pollution Prevention Plan (SWPPP), and applying the required permits will be the main priorities.

- 3) At the end of October 2014, the Environmental Clearance Project Report will be completed, approved, and submitted to the City.
- 4) At the end of November 2014, the right-of-way engineering tasks will be completed, approved, and submitted to the City for final review. All the previous concerns from various parties will be addressed and incorporated in the engineering tasks and the documents.
- 5) At the end of November 2014, AKM will finish and submit the 80% construction plans with the associated construction cost estimate and the specifications. At this stage, the final hydrology and hydraulic project report will be finished, portion of the required permits shall have been received. Only minor revisions will be expected. The Stormwater Pollution Prevention Plan (SWPPP) will be submitted for final review.
- 6) At the end of December 2014, AKM will finish and submit the 100% construction plans with the associated construction cost estimate and the specifications. At this stage, only minor revisions shall be expected. The project adjustment will be identified per City specified priority. The adjustment will be determined based on the location of the facility, budget, and the coordination with city other projects.
- 7) The completion of design work will be accomplished by the end of January 2015. AKM will finish and submit the final approved Construction Package, which includes the final construction plans with the associated construction cost estimate and the specifications, and with all the required permits and reports. The required right-of-way/easement Deeds will be recorded by the end of January 2015 as well.

PHASE 3: ADVERTISING, BIDDING AND CONSTRUCTION SUPPORT (FEBRUARY 2015 TO MARCH 2016)**PHASE 3.1 – CONSTRUCTION BIDDING SERVICES (FEBRUARY 2015 TO MAY 2015)**

- 1) In February 2015, AKM will assist the City with construction bidding services to advertise the project, responses to requests for information, and clarification of plans and specifications. If needed, AKM will prepare and issue addenda to the City and Bidders for clarification. If requested by the City, AKM will assist the City to establish a pre-qualified contractor list for City review.
- 2) In March 2015, AKM will assist the City to evaluate and check all of the bids including the bidders' references and licenses per project requirements and contract law.
- 3) In January to May 2015, AKM will prepare the City Council Staff Report for award of construction contract and process the contract agreement with the lowest responsible bidder. AKM will attend the City Council meeting to answer questions, defend the project.

PHASE 3.2 – CONSTRUCTION SUPPORT (JUNE 2015 TO MARCH 2016)

AKM will assist the City to provide support throughout the completion of the construction, which is scheduled by March 2016. AKM will provide continuous assistance to the City for providing the following services:

- 1) Attend the pre-construction meeting to respond to information related to the construction plans, criteria, and specifications. The requested addenda will be issued to clarify any concerns from the meeting.
- 2) AKM will continuously provide responses to requests for information/questions. Any requests for revision will be reviewed, considered, prepared, and Contract Change Orders (CCO) shall be issued if necessary.
- 3) AKM will provide shop drawing reviews to ensure the quality of the materials and safety of the construction methods. AKM will attend the site meetings as needed.
- 4) After the completion of the construction, AKM will prepare "As-Built" record plans by incorporating all of the red-line comments to assist the City release the final progress payment.
- 5) By the end of March 2016, AKM will provide the GASB Statement 34 documents required data to the City for closing the project.

Quality Assurance/Quality Control

A key element in the successful completion of any project is the implementation of a quality assurance/quality control program. Success is achieved through the efforts of qualified professionals effectively employing their skills and following a deliberate program of quality assurance to monitor and verify that the quality control plan is followed. For this project, AKM will utilize a project quality control plan that includes the following items:

- ✓ Review of project deliverables, and definition of procedures and required standards.
- ✓ Description of specific quality control procedures to be followed in specific activities, including the level and frequency of review required.
- ✓ Identification of elements of the project, if any, requiring special quality control attention or emphasis.
- ✓ Identification of technical experts required for review and consultation.
- ✓ Estimate of resources required for quality control functions.

To effectively manage the entire team's work and ensure that all activities are coordinated, AKM will prepare and issue a project procedures protocol to all team personnel. The project procedures will cover communications, documentation, project files and other project specific procedures.

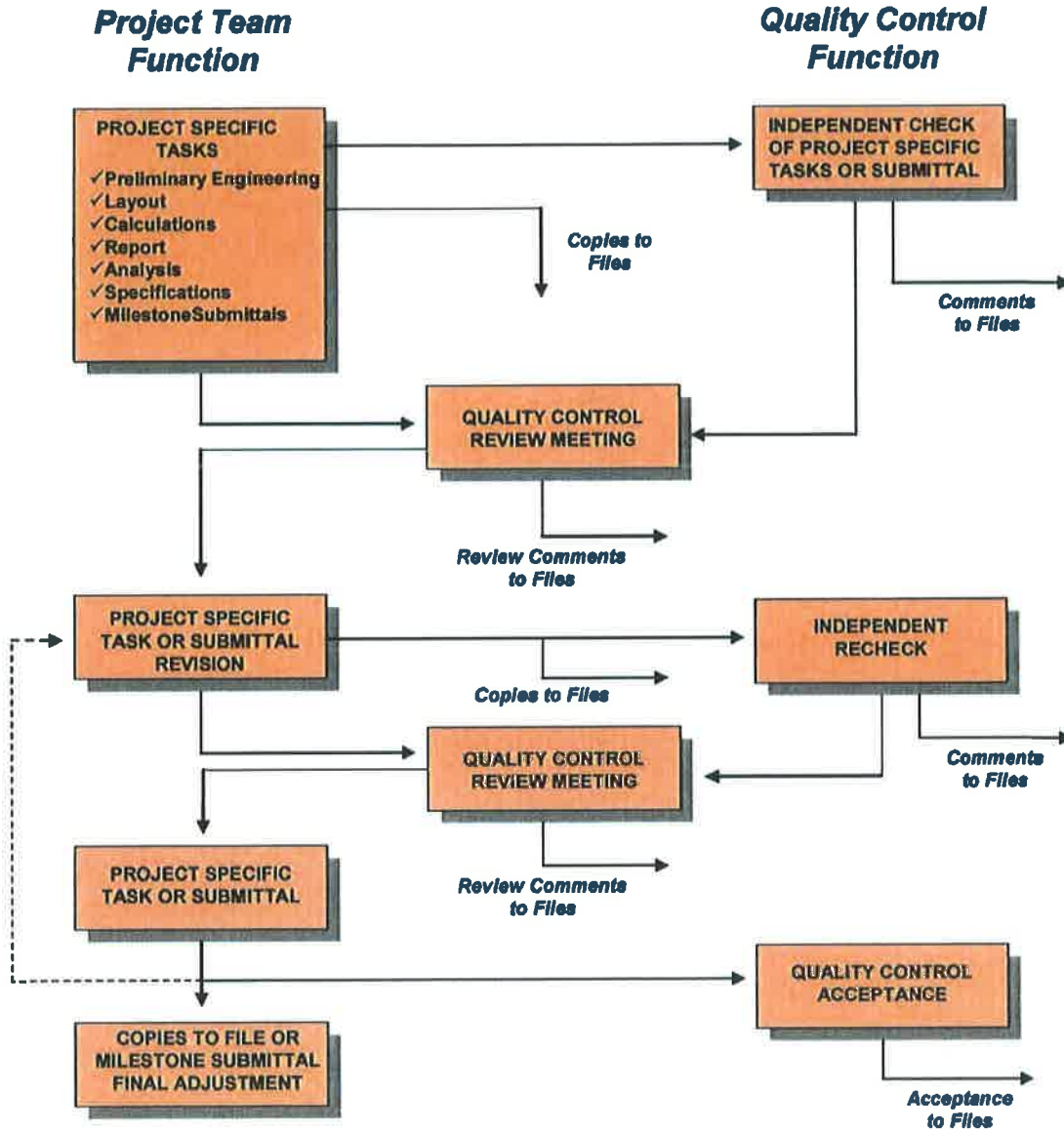
In undertaking its assignments, AKM employs an "Integrated Project Management" approach to deliver successful projects. The goal of the Integrated Project Management is to provide a technically superior product on schedule and within budget. Integrated Project Management commences with project identification, establishes a work program, and executes the project. In this approach, the project management and internal quality control are very important elements.

During project identification, the intent and purpose of the project are determined with extensive interaction with the client. Thereupon, a work plan is established and a resource loaded work breakdown structure and schedule are prepared. The schedule and work breakdown structure are integrated with the special needs of the project and the client.

The project is executed by the technical staff. Quality Control function is carried out to provide independent checking of the project and address constructability and bidability issues.

The project is regularly reviewed by the Project Manager who monitors progress against the established work breakdown structure and schedule. Any technical difficulties, schedule slips or previously unforeseen conditions are immediately recognized, quantified and addressed. The status is reported to the client in regular project status reports. As a result, interactive, responsive and proactive project management is utilized.

QUALITY CONTROL FLOW CHART



SECTION 7

Additional Relevant Information

No exceptions have been taken to the RFP or the Sample Agreement.

Below are the required statements from the RFP.

- The RFP has been incorporated in its entirety as part of our proposal.
- The RFP and our proposal will jointly become part of the Agreement for Professional Consultant Services for this project when the Agreement is fully executed by AKM and City Manager of Moreno Valley.
- AKM's services to be provided, and fees, will be in accordance with the City's RFP except as otherwise specified in our proposal under the heading "Additions or Exceptions to the City's Request for Proposal".
- Names, qualifications, and proposed duties of AKM's staff to be assigned to this project have been included in Section 4 "Project Team" of this proposal, and resumes are located in Appendix A "Resumes". Our project organizational chart is included in Section 2 "Approach and Management Plan" as requested by the RFP.
- Recent similar projects have been included in AKM's proposal under Section 3 "Related Experience".
- If one of more of AKM's staff should become unavailable, AKM may substitute other staff of at least equal competence only after prior written approval by the City of Moreno Valley.
- A resource allocation matrix has been included in Appendix D "Resource Matrix (Staff Hours)"
- AKM's rate schedule is shown in Appendix B "Rate Schedule"
- Subconsultant's project team is included in Section 4 "Project Team" and resumes can be found in Appendix A "Resumes".
- AKM's services is provided and is a "not-to-exceed fee"
- AKM will document and provide the results of work completed to the City of Moreno Valley. This will include field and final reports and obtained Agreement objectives.
- AKM will immediately notify the City of Moreno Valley of any defects or hazardous conditions observed at the project site before, during, or after construction.
- Our hourly rate schedule has been provided in Appendix B "Rate Schedule" and is used for invoicing progress payments and for extra work incurred that is not part of this RFP. All extra work will need approval from the City of Moreno Valley.
- AKM does not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.
- All federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations.
- AKM will allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll, materials, and other relevant contract records pertinent to this project. All records will be retained for a minimum of three years.
- AKM will comply with the Davis-Bacon Fair Labor Standards Act (40 USC 276 a through a7) and the implementation regulations issued pursuant thereto (29 CFR Section 1, 5), any amendments thereof and the California Labor Code.
- AKM will comply with the Copeland Anti-Kickback Act (18 USC 874) and the Implementation Regulation (29 CFR 3) issued pursuant thereto, and any amendments.

SECTION 7

Additional Relevant Information

- AKM offers and agrees to assign to the City of Moreno Valley all rights, titles, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 USC Section 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code) arising from purchases of goods, services, or materials pursuant to the public works or the subcontract.
- The Disclosure of Lobbying Activities for can be found in Appendix E "Certificates".
- Subconsultants are listed in Section 4 "Project Team".
- AKM agrees with all terms of the attached City Standard Consultant Agreement, which includes the provisions that must be complied with for this Federal funded project.

SECTION 8

***Additions or Exceptions to the
City's Request for Proposal***

No additions or exceptions have been made to the City of Moreno Valley's Request for Proposal.

SECTION 9

Cost Proposal

AKM's proposed project staff hours in Appendix D and fee estimate is being submitted under separate envelope as requested in the RFP. It has been prepared to properly address the project scope of work contained in our proposal. The proposed fee reflects our understanding of the scope of work based upon the City of Moreno Valley's Request for Proposal, and information provided by the City. We will be happy to refine the scope of work as desired by the City of Moreno Valley, and make changes to the fee proposal to correspond to the final scope of work.

APPENDIX A

Resumes

ZEKI KAYIRAN, P.E.**Project Role: Project Manager****YEARS WITH AKM**

24

PROFESSIONAL REGISTRATION

Registered Civil Engineer, California, 1978 [C-29330]

EDUCATION

Master of Science in Civil Engineering, California State University, Long Beach, California, 1974

Bachelor of Science in Civil Engineering, Robert College 1971

EXPERIENCE

Mr. Kayiran provides comprehensive technical and management expertise in the planning and design of a wide variety of engineering projects. His professional background includes a blend of consulting engineering and academic experience, including a part-time instruction in the field of fluid mechanics and hydraulic design at California State University, Long Beach. Mr. Kayiran's experience includes the following:

RIVERSIDE COUNTY FC&WCD PROJECT EXPERIENCE:

- **Wasson Canyon Channel for the Riverside County Flood Control and Water Conservation District- Project Manager** - Project was a part of the Elsinore Valley Area of Zone 3 Flood Control Benefit Assessment Program. Responsible for hydraulic studies and design of 1,200 feet of vertical wall channel (18' wide x 11' high) with two box culverts, inlet transition, and outlet transition between the I-15 Freeway and Lake Elsinore Outlet Channel.
- **Third Street Channel for the Riverside County Flood Control and Water Conservation District – Project Manager** - Project was a part of the Elsinore Valley Area of Zone 3 Flood Control Benefit Assessment Program. Responsible for hydraulic studies and design of an earthen trapezoidal channel along Third Street between Collier Avenue and Lake Elsinore Outlet Channel, including riprap protection at the confluence with the Lake Elsinore Outlet Channel.

MASTER PLANNING - DRAINAGE

- | | |
|--|-------------------------|
| ▪ City of Seal Beach | ▪ City of Palmdale |
| ▪ City of Inglewood | ▪ City of Hermosa Beach |
| ▪ City of Cypress | ▪ City of Culver City |
| ▪ City of Rancho Palos Verdes | |
| ▪ Etiwanda Area Master Plan of Drainage for the City of Rancho Cucamonga | |

FLOOD CONTROL/DRAINAGE PROJECTS

- **Deficiency Study for the County of Orange Flood Control District Regional Facilities** – Project Manager responsible for the preparation of County's regional channel inventory list (267 miles), determination of existing channel capacity, reviewing the county's hydrologic data, identifying the deficient reaches, formulating planning level projects to eliminate the deficiencies, and estimating project costs for improving the deficient reaches.
- **Electric Avenue Storm Drain for the City of Seal Beach** - Project Manager responsible for detailed hydrologic studies, hydraulic analyses, and design of the 66" relief drain and laterals to provide expected value 100-year protection to a portion of Old Town draining to the Seal Beach Pump Station.
- **Flomar Drain for the City of Whittier** - Project Manager responsible for the hydrologic studies, hydraulic analyses, and design of the drainage system consisting of 1,575 feet of 6' (H) x 3.5' (H) RCB and 42" RCP to provide Capital Flood (50-year storm peak runoff) Protection to the 68-acre sump watershed.
- **Alagundo Drain and In-line Detention Basin for Alameda Corridor Transportation Auth./LACDPW** - Project Manager responsible for hydrologic and hydraulic studies, and preparing final plans, specifications and estimates for project that consisted of a bypass drain with upstream catch basins for 2-year capacity; and a 700 feet long and 13' (wide) by 7' (high) reinforced concrete box in-line detention basin in El Segundo Boulevard to detain the difference between the 2 and 25 year storm runoff.
- **Compton Creek Hydrologic, Hydraulic and Bridge Scour Studies for ACTA/U.S. Army Corp of Engineers-** Project Manager responsible for developing the design discharges (50, 100, and 133-year), hydraulic analysis of Compton Creek from upstream of East Branch of Compton Creek to Los Angeles River, scour analyses of the new 3-track railroad bridge replacing the existing single track bridge, and providing recommendations for protecting the bridge foundation.

**CITY OF MORENO VALLEY
SAN TIMOTEO FOOTHILL DRAINAGE**

Appendix A-1

AKM Proposal No. 13-1103

- **Project Drain 9037, Unit 4, Line D (6,500 feet of 42" to 84" RCP) in Long Beach for Los Angeles County Department of Public Works** - Project Manager responsible for 6,500 feet of 42-inch to 84-inch diameter RCP in the City of Long Beach. The project also included extensive coordination with utility companies and required the relocation of 8-inch and 18-inch sanitary sewer lines.
- **West State Street Channel, Flow Splitting Facility and Brooks Basin Storm Water Pump Station for the San Bernardino County Flood Control District** – Project Manager responsible for hydrologic and hydraulic studies, and design of a flow splitting structure diverting flows to Brooks Basin (groundwater recharge and flood flow retarding basin) to reduce the peak flow in the West State Street Channel from 3,000 cfs to 750 cfs, downstream rectangular channel, and a pump station with two 70 cfs mixed flow pumps to make flood detention volume available in the groundwater recharge basin. The flow-splitting structure design was verified through a hydraulic physical model at California State University, Long Beach.
- **Talbert Channel Pump Station for Low Flow Diversion for Orange County Public Works** - Principal-In-Charge responsible for preparation of plans, specifications, estimates, and construction support services for the construction of an inflatable rubber dam in Talbert Channel, a submersible pump station, and forcemain terminating at an 18-inch diameter City of Huntington Beach sewer in Yorktown Avenue.
- **Haster Retarding Basin and Pump Station for the Orange County Public Works** - Principal-In-Charge responsible for hydraulic studies, alternatives evaluation and design of a detention basin and a 460 cfs pump station to provide expected value 100-year protection to a 2000 acre watershed in Anaheim and Garden Grove.
- **Myra Avenue In-line Detention Basin and Storm Water Pump Station No. 2 for the City of Cypress** – Project Manager responsible for preparation of a preliminary design report which developed and evaluated alternative projects to eliminate the condition and capacity deficiencies; final design; and complete construction inspection and management services for the project consisting of 1,351 feet of 14' W x 4.5' H reinforced concrete box in-line detention basin in Myra Avenue between Moody Street and Denni Street south of Carbon Creek Channel; improvements to the existing pump station wet well, a superstructure to house the new pumps and electrical equipment; two 33 cfs axial flow pumps with 125 HP VFD operated motors, a 250 kW natural gas emergency generator, and SCADA control system to provide expected value 100 year flood protection to the tributary area. The project included pre-purchasing the pumps, motors, and VFDs to allow completion prior to the rainy season.
- **Myra Avenue In-line Detention Basin and Storm Water Pump Station No. 3 for the City of Cypress** – Project Manager responsible for preparation of a preliminary design report, and final design for the project consisting of 2,000 feet of 14' W x 4.5' H reinforced concrete box in-line detention basin in Myra Avenue between Denni Street and Bloomfield Avenue south of Carbon Creek Channel, improvements to the existing pump station wet well, a superstructure to house the new pumps and electrical equipment, two 30 cfs axial flow pumps with 125 HP VFD operated motors, a 250 kW natural gas emergency generator, and electrical, controls and SCADA system to provide expected value 100 year flood protection to the tributary area in sump condition. The project included preparation of specifications for pre-purchasing the pumps, motors, and VFDs to allow completion prior to the next rainy season.
- **Aloe Storm Water Pump Station for the Alameda Corridor Transportation Authority (ACTA)/Los Angeles County Department of Public Works** – Project Manager for the 54 cfs capacity storm water pump station with 4-27 cfs capacity, variable frequency drive-operated pumps.
- **Project No. 58 Drain Relocation for ACTA/Los Angeles County Department of Public Works**
- **Project No. 9921 Drain Relocation for Alameda Corridor Transportation Authority (ACTA) / Los Angeles County Department of Public Works**
- **Multnomah Drain for the County of Los Angeles, Department of Public Works**
- **Hollyhills Drain Unit 5 for the Los Angeles County Department of Public Works**
- **Laguna Canyon Village Runoff Management Plan for the Irvine Company**
- **Indian Hill Drain for the Los Angeles County Department of Public Works**
- **Gilbert Street Storm Drain for the City of Garden Grove**
- **22nd Street E. Storm Drain for the City of Palmdale**

CHANNELS

- **Imperial Channel Project Report for Orange County Public Works**
- **Bolsa Chica Channel Supplemental Project Report for the Orange County Public Works**
- **Santa Ana-Delhi Channel for the Orange County Public Works**

- Oso Creek Channel for the Orange County Public Works
- Dominguez Channel Hydraulic Analysis from Los Angeles Harbor to Main Street in Carson for ACTA/Los Angeles County Department of Public Works
- Storm Water Damage Repair of Westminster Channel, Greenville-Banning Channel and Bolsa Chica Channel for Orange County Public Works
- West State Street Channel, Flow Splitting Facility and Brooks Basin Storm Water Pump Station for the San Bernardino County Flood Control District
- Santa Ana-Santa Fe Channel Confluence with Peters Canyon Channel for the City of Tustin/Orange County Public Works
- Lane Channel for Orange County Flood Control District

MORGAN J. YING, P.E., QSD**Project Role: Project Engineer****YEARS WITH AKM**

19

PROFESSIONAL REGISTRATION

Registered Civil Engineer, California, 1984 [C-038983]

Qualified SWPPP Developer, California, 2012 [22686]

EDUCATION

Master of Science in Civil Engineering, California State University, Long Beach, California, 1981

Bachelor of Engineering in Hydraulic Engineering, Tamkang University, Taiwan, 1976

RIVERSIDE COUNTY FC&WCD PROJECT EXPERIENCE:

- **CLOMR Request for Murrieta Creek at Warm Springs Creek Confluence** – Project Engineer responsible for : 1) Modification of RCFCWCD's original HEC-2 hydraulic analysis of 9,700 feet on Murrieta Creek due to the Rancon Development Project; 2) Re-mapping the FEMA's 1988 FIRM Maps #2740 and 2745 Floodplain; and 3) Approval from RCFCWCD and FEMA Agencies of the Conditional Letter of Map Revision (CLOMR) in 1993.
- Project Engineer responsible for the hydrology studies and hydraulic analysis for the design of Warm Springs Channel, Wardlow Wash, Salt Creek, Murrieta Creek, Lytle Creek and Temescal Wash channel reaches related to the land development projects in Elsinore Square, Wildrose Ranch, Menifee Ranch, and Audie Murphy Ranch from 1989 to 1993
- Project Engineer: Due to the Menifee Ranch Development Project, a flood control channel spillway design was conducted using Ogee Crest shape per Design of Small Dams guidelines on Brown Canyon Channel and was approved by the RCFCWCD.
- Project Engineer responsible for a CONSPAN culvert design on Salt Creek for Audie Murphy Ranch Development project, and preparation of CLOMR for submittal.

DRAINAGE MASTER PLANS AND STUDIES

Mr. Ying's responsibilities include setting the drainage system inventory, establishing criteria to meet the Cities' General Plans and the County's flood protection goals, conducting hydrologic studies/calculations and hydraulic analyses for the existing and proposed drainage systems, development of replacement and relief facilities, extending future drainage, setting priority, establishing capital improvement programs (CIP) and cost estimates, and preparation of project reports.

- City of Palmdale
- City of Inglewood
- City of Seal Beach
- City of Cypress
- Hydrologic, Hydraulic, and Scour Studies for Compton Creek Railroad Bridge Replacement for the Alameda Corridor Transportation Authority/US Army Corps of Engineers
- Hydraulic Study of Dominguez Channel from Los Angeles Harbor to Main Street in Carson for Alameda Corridor Transportation Authority
- City of Rancho Cucamonga
- Orange County Flood Control District Facilities
- Orange County Public Works
- City of Seal Beach

FLOOD CONTROL FACILITY DESIGN PROJECTS

- **Aspen/Graham/Walker Storm Drain PW Project No. 86 for the City of Cypress** - Project Engineer responsible for a hydrology study covering a drainage boundary of 110 acres, and hydraulic analyses for sizing a drainage system to convey the 25-year high confidence storm runoff. The project is proposed to replace the existing 60-inch pipe with a larger facility to meet the County of Orange flood protection criteria. The proposed storm drain system includes 857 feet of 6' (w) x 4' (h) RCB, 120 feet of 5' (w) x 4.5' (h) RCB, 246 feet of 5' (w) x 3.5' (h) RCB, 1,320 feet of 72-inch RCP, 294 feet of 48-inch RCP, 385 feet of 42-inch RCP, 209 feet of 36-inch RCP, 198 feet of 30-inch RCP, and 480 feet of 24-inch RCP. Because of shallow outlet facilities, two local sumps in the upstream drainage system, shallow ground cover was a very stringent restriction to the design. Therefore, various sizes of reinforced concrete boxes and pipes were incorporated into the design to best fit the street profiles and the existing utility crossings. Other restrictions of the project include high backwater level from Carbon Creek Channel (OCFCD Facility No. B01), providing protection at the two local sump areas, a 78-inch high pressure waterline crossing, and a local deficient sewer line crossing. Due to the above restrictions, series of hydraulic analyses were conducted to ascertain that the system could meet the design criteria. This project also includes the

construction of 400 feet of 8-inch sewer line for diverting the existing sewer flow from Belle Avenue to Ball Road in order to eliminate a high maintenance sewer siphon on Belle Avenue. A Water Quality Management Plan (WQMP) is prepared for complying with the requirements of the local NPDES Stormwater Program. In order to meet the requirements, several of Best Management Practices (BMPs) were recommended, including a biotreatment system to minimize the stormwater pollution by using an environmental green system.

- **Haster Basin and Pump Station for the Orange County Public Works Department** – Lead Drainage Engineer responsible for a 22-acre site basin storage analyses, 2,200 cfs inflow hydrologic studies and 460 cfs outflow hydraulic analysis, on-site drainage facility design, and the design plans of double 11.5' (w) x 6' (h) RCB of East Garden Grove-Wintersburg Channel (County Facility No. C05) with an adjacent 9'(w) x 6'(h) City of Anaheim future drainage improvements, and providing two (2) soccer fields for recreation park.
- **Myra Avenue In-line Detention Basin and Storm Water Pump Station No. 2 for the City of Cypress** – Project Engineer responsible for preparation of a preliminary design report which developed and evaluated alternative projects to eliminate the condition and capacity deficiencies; final design; and complete construction inspection and management services for the project consisting of 1,351 feet of 14' W x 4.5' H reinforced concrete box in-line detention basin in Myra Avenue between Moody Street and Denni Street south of Carbon Creek Channel; improvements to the existing pump station wet well, a superstructure to house the new pumps and electrical equipment; two 33 cfs axial flow pumps with 125 HP VFD operated motors, a 250 kW natural gas emergency generator, and SCADA control system to provide expected value 100 year flood protection to the tributary area. The project included pre-purchasing the pumps, motors, and VFDs to allow completion prior to the rainy season.
- **Myra Avenue In-line Detention Basin and Storm Water Pump Station No. 3 for the City of Cypress** – Project Engineer responsible for preparation of a preliminary design report, and final design for the project consisting of 2,000 feet of 14' W x 4.5' H reinforced concrete box in-line detention basin in Myra Avenue between Denni Street and Bloomfield Avenue south of Carbon Creek Channel, improvements to the existing pump station wet well, a superstructure to house the new pumps and electrical equipment, two 30 cfs axial flow pumps with 125 HP VFD operated motors, a 250 kW natural gas emergency generator, and electrical, controls and SCADA system to provide expected value 100 year flood protection to the tributary area in sump condition. The project included preparation of specifications for pre-purchasing the pumps, motors, and VFDs to allow completion prior to the next rainy season.
- **Deficiency Study for the County of Orange Flood Control District** – Project Engineer responsible for the preparation and reviewing of County's regional channel inventory list (267 miles), determination of existing channel capacity, reviewing the County's hydrologic data, identifying the deficient reaches, formulating planning level projects to eliminate the deficiencies, and estimating project costs for improving the deficient reaches.
- **Electric Avenue Storm Drain for the City of Seal Beach** – Project Engineer responsible for design of 1,150 feet of the 66-inch relief drain and laterals to provide expected value 100-year protection to the easterly portion of Old Town draining to the Seal Beach Pump Station.
- Candleberry Storm Drain for the City of Seal Beach
- Various On-Call Service Projects for Orange County Public Works
- Flomar Drain for the City of Whittier/US Army Corps of Engineers
- Corsair Way and Seal Beach Blvd. Storm Drain for the City of Seal Beach
- Review of Hydrologic and Hydraulic Studies for the Old Ranch Golf Course and Retarding Basin for the City of Seal Beach
- Hydraulic Study of Dominguez Channel from Los Angeles Harbor to Main Street in Carson for Alameda Corridor Transportation Authority
- Hydrologic, Hydraulic, and Scour Studies for Compton Creek Railroad Bridge Replacement for the Alameda Corridor Transportation Authority/US Army Corps of Engineers
- Project No. 9921 Drain Relocation for the Alameda Corridor Transportation Authority/Los Angeles County Department of Public Works
- Santa Ana-Santa Fe Channel for the Orange County Public Work and City of Tustin
- Westminster Channel, Greenville-Banning Channel, and Bolsa Chica Channel Repair for the Orange County Environmental Management Agency

- Anaverde Detention Dam and Sports Complex for the City of Palmdale Eastern Transportation Corridor Runoff Management Plan for the Transportation Corridor Agency of Orange County
- Peters Canyon and Marshburn Channel for the Transportation Corridor Agencies of Orange County
- Bolsa Chica Channel Supplemental Project Report for the Orange County Public Works

ROADWAY DRAINAGE DESIGN PROJECTS

- Hydrology and Hydraulic Analyses for Ocean Boulevard/Terminal Island Freeway Interchange Project for Port of Long Beach
- Hydrologic Studies and Hydraulic Design of Alagundo (El Segundo) Drain and In-Line Detention Basin for the Alameda Corridor Transportation Authority/Los Angeles County Department of Public Works
- Hydraulic and Scour Analysis Studies of Laguna Canyon Creek along and across SR 133 Upstream of SR 73 for Orange County Public Works)
- Roadway Drainage System design on Orange Freeway (SR 57) Traffic Lane Widening Project for Caltrans District 7

STORMWATER POLLUTION PREVENTION PROJECTS

Mr. Ying, a project engineer, worked on the following stormwater pollution prevention projects. His major responsibilities on these projects included review and approval of the Stormwater Pollution Prevention Plan (SWPPP) and Division of Water Quality Plan (DWQ), and preparation of Water Quality Management Plan (WQMP) for public agencies such as the City of Cypress , City of Seal Beach, City of Garden Grove, City of Whittier, City of Palmdale, City of Irvine, and the U. S. Air Force

GARY J. HOBSON, P.E.**Role: QA/QC Review****YEARS WITH AKM**

12

PROFESSIONAL REGISTRATION

Civil Engineer, California 1986 [C40779]

Civil Engineer, Arizona 1989 [23777]

EDUCATION

B.S., Secondary Education, Indiana University Purdue University at Indianapolis, 1976

Post Graduate Studies, Civil Engineering, Indiana University Purdue University at Indianapolis, 1976 -78

EXPERIENCE

Mr. Gary Hobson, P.E., a Principal with AKM Consulting Engineers, with over 30 years of experience in water resources engineering, will be responsible for QA/QC. Mr. Hobson's professional experience; expertise in drainage and storm water runoff covers client and project management, planning, design, and construction support services for a variety of public works projects in both local and federal government sectors. Mr. Hobson also participated in quality control and value engineering teams for multi-disciplinary engineering projects. His responsibilities will include exploring innovative technical approaches from the beginning of the project and reviewing the work at key milestones to ensure that the work product meets the high standards for technical excellence. Mr. Hobson's relevant experience includes:

- **Oso Creek Flood Control Channel (LO3) for Orange County Flood Control District** - Project Engineer responsible for the hydraulic and structural design, and preparation of plans and specifications for 5000' of vertical wall channel, drop structures, box culverts, riprap trapezoidal transition section, and utility relocations for Orange County Environmental Management Agency.
- **Wasson Canyon Channel and Debris Basin, US Army Corps of Engineers and Riverside County Flood Control & Water Conservation District** - Project Engineer responsible for the design of Wasson Canyon Channel and Debris Basin. Wasson Canyon Channel (Ph 1) project included the design of 1,200 feet of vertical wall channel with two box culverts, and inlet transition and outlet transition structures. Wasson Canyon Debris Dam (Ph 2) project included grading and debris loading calculations, and spillway for an earth dam structure on Wasson Canyon Channel located immediately west of the I-15 Freeway.
- **Third Street Channel for the Riverside County Flood Control and Water Conservation District** – Project Engineer responsible for hydrologic studies, hydraulic analyses, and design of a trapezoidal channel tributary to Temescal Wash in Lake Elsinore
- **Slater Channel Structural Lining for the City of Huntington Beach** – Project Engineer for hydraulic and structural design calculations for 3,500 feet of trapezoidal concrete channel upstream of the Slater Pump Station.
- **Main Street and Oak Channel Debris Basins for the City of Corona** – Project Manager responsible for studying the recharge capabilities of two flood control debris basins for the recharge of groundwater. In addition to the hydraulic and hydrologic elements, inlet metering and outlet metering structures, water quality impacts and flood control mitigation were important elements in the study.
- **Myra Avenue In-line Detention Basin and Storm Water Pump Station No. 3 for the City of Cypress** – QA/QC Manager responsible for preparation of a preliminary design report, and final design for the project consisting of 2,000 feet of 14' W x 4.5' H reinforced concrete box in-line detention basin in Myra Avenue between Denni Street and Bloomfield Avenue south of Carbon Creek Channel, improvements to the existing pump station wet well, a superstructure to house the new pumps and electrical equipment, two 30 cfs axial flow pumps with 125 HP VFD operated motors, a 250 kW natural gas emergency generator, and electrical, controls and SCADA system to provide expected value 100 year flood protection to the tributary area in sump condition. The project included preparation of specifications for pre-purchasing the pumps, motors, and VFDs to allow completion prior to the next rainy season.

- **Myra Avenue In-line Detention Basin and Storm Water Pump Station No. 2 for the City of Cypress** – QA/QC Manager responsible for preparation of a preliminary design report which developed and evaluated alternative projects to eliminate the condition and capacity deficiencies; final design; and complete construction inspection and management services for the project consisting of 1,351 feet of 14' W x 4.5' H reinforced concrete box in-line detention basin in Myra Avenue between Moody Street and Denni Street south of Carbon Creek Channel; improvements to the existing pump station wet well, a superstructure to house the new pumps and electrical equipment; two 33 cfs axial flow pumps with 125 HP VFD operated motors, a 250 kW natural gas emergency generator, and SCADA control system to provide expected value 100 year flood protection to the tributary area . The project included pre-purchasing the pumps, motors, and VFDs to allow completion prior to the rainy season.
- **Rattlesnake Creek and Poway Creek Improvements** - Project Manager responsible for the design of grass lined trapezoidal channel in Community Park for the City of Poway; including preparing a FEMA Letter of Map Amendment (LOMA) for Rattlesnake Creek, and a LOMA for a portion of Poway Creek.
- **SD 03 Stormwater Pump Station Improvements for the City of Long Beach** – QA/QC Manager for the project which replaced the existing capacity deficient pumps with three 70-cfs, 350 HP VFD operated pumps to provide Capital Flood (50-year storm) protection to the tributary area. The project included installation of suction umbrellas to maximize the storage capacity in the wet well, wet well improvements to bring it into compliance with the Hydraulic Institute Standards, a 1 megawatt natural gas engine standby generator, and relining of the existing 36-inch discharge pipes between the pump station and the Los Angeles River.
- **Haster Retarding Basin and Stormwater Pump Station for Orange County Public Works** – QA/QC Manager responsible for hydrologic and hydraulic studies, alternatives evaluation, preparation of a Preliminary Design Report, final design, and engineering services during construction for a 260 acre-foot flow-through retarding basin and a 460 cfs capacity pump station (three 153.4 cfs axial flow pumps driven by 845 HP natural gas/LPG engines) to provide expected value 100-year protection to a 2,000 acre watershed in Anaheim and Garden Grove. The project included two sump pumps (125 HP, 3,000 gpm and 25 HP 500 gpm), urban runoff water quality enhancements, grading to provide space for recreational features including two soccer fields, and providing bidding and construction support services.
- **SERRA Treatment Plant Flood Protection for the South East Regional Reclamation Authority**- Project Engineer responsible for hydrologic and hydraulic studies, and design of storm drains, box culverts, levee and retaining walls to protect against the 100-year flood in Dana Point for the South East Regional Reclamation Authority
- **City-wide Flood Control Master Drainage Plan for the City of National City** – QA/QC Manager responsible for preparing a city-wide Flood Control Master Drainage Plan for all pipes larger than 18" in diameter for the City of National City in conformance with San Diego County Flood Control criteria.
- **City-wide Flood Control Master Drainage Plan for the City of Santee** – QA/QC Manager responsible for preparing a drainage plan for pipes larger than 18" in conformance with San Diego Flood Control criteria.
- **Storm Drainage System Master Plan for the City of Manhattan Beach** – QA/QC Manager responsible for the development of a model to assess the impact of 10, 25, and 50-year storms on local/regional facilities in conformance with Los Angeles County criteria, and evaluation of local drainage problems.
- **On-Site and Off-Site Drainage Studies, New Headquarters Building for the Yorba Linda Water District** – QA/QC Manager responsible for on-site and off-site hydrology and hydraulic studies for the District's new headquarters building, site regrading, water quality BMPs, sizing of inlets and catch basin inserts, and 12" to 36" size storm drain pipes sized for a Q50 sump connection.

JON NITTA, P.E.**Project Role: Design Engineer****YEARS WITH AKM**

12

PROFESSIONAL REGISTRATION

Registered Civil Engineer, California, 2006

EDUCATION

Bachelor of Science in Civil Engineering, University of California Los Angeles, 2001

EXPERIENCE

Mr. Nitta has extensive background in water resources engineering including hydrologic studies, hydraulic analyses, and drainage facility design. His background includes four recent drainage master plans and numerous flood control facility analysis and designs. His experience includes:

- **Master Plan of Drainage for the City of Seal Beach** – Staff Engineer for the preparation the City's Master Plan of Drainage Update in 2008, including system inventory and GIS, hydrologic and hydraulic analyses (WSPG), development of replacement and relief facilities as well as upstream extensions to meet criteria, prioritization, cost estimate development and report preparation.
- **Master Plan of Drainage Update for the City of Cypress** – Staff Engineer for the preparation of the update to the 1996 Master Plan of Drainage, including establishment of criteria, system inventory and GIS, hydrologic and hydraulic analyses (WSPG) formulation of replacement and relief facilities, as well as system extensions to meet criteria; prioritization; cost estimates; and report preparation.
- **Etiwanda Area Master Plan of Drainage Update for the City of Rancho Cucamonga**- Staff Engineer responsible for updating of the master plan which included hydrologic studies, hydraulic analyses (WSPG) to identify the necessary ultimate regional, secondary regional, master plan, and local drainage facilities for the area east of Day Creek, and tributary to Etiwanda and San Sevaine Creeks.
- **Master Plan of Drainage for the City of Inglewood** - Lead Hydrology Engineer for the preparation the Master Plan of Drainage for the 10 square mile drainage area including hydrologic studies to develop design discharges utilizing MODRAT.
- **Deficiency Study for Orange County Flood Control District** – Staff Engineer responsible for the preparation of a report that included an inventory list, capacity analysis, and construction cost estimate for all of Orange County Flood Control District's (OCFCD) 78 regional storm channels (267 miles), 27 retarding basins, and 8 pump stations. The Deficiency Study is used for the Orange County Public Works annual Business Plan, as data to supplement the current inventory of flood control facilities, and for the Orange County American Society of Civil Engineers' infrastructure grading report card.
- **Myra Avenue In-line Detention Basin and Storm Water Pump Station No. 3 for the City of Cypress** – Staff Engineer (Hydrologic Studies and Hydraulic Analysis) responsible for preparation of a preliminary design report, and final design for the project consisting of 2,000 feet of 14' W x 4.5' H reinforced concrete box in-line detention basin in Myra Avenue between Denni Street and Bloomfield Avenue south of Carbon Creek Channel, improvements to the existing pump station wet well, a superstructure to house the new pumps and electrical equipment, two 30 cfs axial flow pumps with 125 HP VFD operated motors, a 250 kW natural gas emergency generator, and electrical, controls and SCADA system to provide expected value 100 year flood protection to the tributary area in sump condition. The project included preparation of specifications for pre-purchasing the pumps, motors, and VFDs to allow completion prior to the next rainy season.
- **Myra Avenue In-line Detention Basin and Storm Water Pump Station No. 2 for the City of Cypress** – Staff Engineer (Hydrologic Studies and Hydraulic Analysis) responsible for preparation of a preliminary design report which developed and evaluated alternative projects to eliminate the condition and capacity deficiencies; final design; and complete construction inspection and management services for the project consisting of 1,351 feet of 14' W x 4.5' H reinforced concrete box in-line detention basin in Myra Avenue

between Moody Street and Denni Street south of Carbon Creek Channel; improvements to the existing pump station wet well, a superstructure to house the new pumps and electrical equipment; two 33 cfs axial flow pumps with 125 HP VFD operated motors, a 250 kW natural gas emergency generator, and SCADA control system to provide expected value 100 year flood protection to the tributary area . The project included pre-purchasing the pumps, motors, and VFDs to allow completion prior to the rainy season.

- **Electric Avenue Storm Drain for the City of Seal Beach** – Staff Engineer responsible for detailed hydrologic studies, hydraulic analyses, and design of the 66" relief drain and laterals to provide expected value 100-year protection to a portion of Old Town draining to the Seal Beach Pump Station.
- **Candleberry Storm Drain for the City of Seal Beach** – Staff Engineer responsible for design of 425 feet of single 10' (w) x 3' (h); 134 feet of single 7' (w) x 2'-3" (h) RCB relief drain and laterals to provide expected value 100-year protection to a portion of College Park East area which drains to Old Ranch Golf Course. The project also included relocation and improvements of sewer system.
- **Flomar Drain for the City of Whittier/US Army Corps of Engineers** – Staff Engineer responsible for the coordination with LACDPW and US Army Corps, and design of 1,575 feet of 6' (w) x 3.5' (h) reinforced concrete box. This project was funded and administered by the US Army Corp of Engineers.
- **Stormwater Pump Station No.1 Preliminary Design Report for the City of Cypress-** Staff Engineer responsible for conducting hydrologic studies and hydraulic analyses of alternatives to eliminate the capacity deficiency in the existing facility, and formulating a recommended project including the tributary storm drain system.
- **Stormwater Pump Station No.'s 2 and 3 Preliminary Design Report for the City of Cypress-** Staff Engineer responsible for the hydrologic studies and hydraulic analyses for evaluating alternatives to eliminate the capacity deficiency in the existing facility, and formulating two alternatives for consideration by the City. Alternatives included a parallel new pump station, and an in-line detention basin to attenuate the peak flow to the capacity of the existing pump station.

APPENDIX B

Rate Schedule

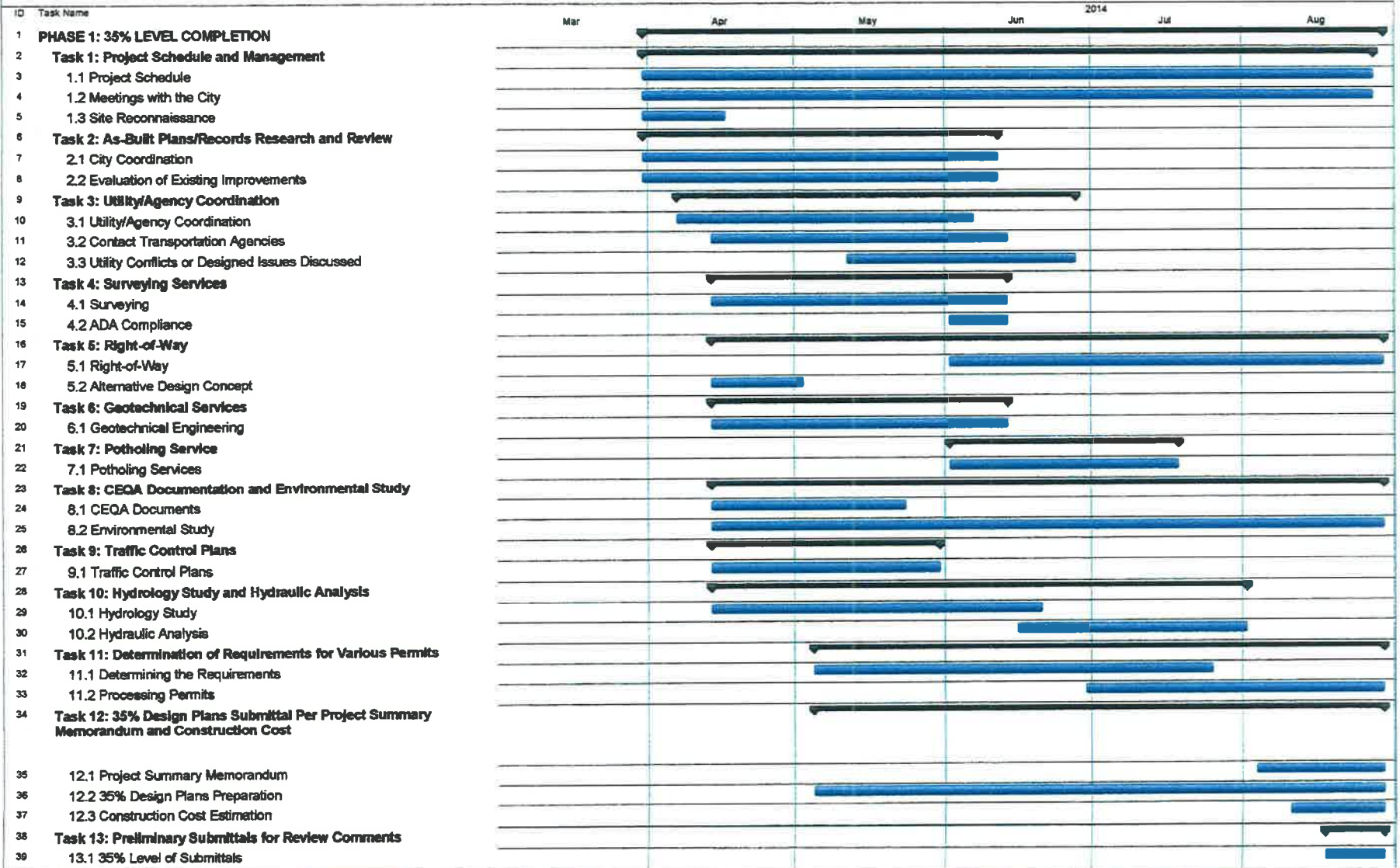
**AKM CONSULTING ENGINEERS
HOURLY FEE SCHEDULE
December 2013**

<u>Labor Classification</u>	<u>Hourly Rate</u>
1. Principal	\$205.00
2. Principal Engineer	\$195.00
3. Project Manager	\$195.00
4. Project Engineer	\$185.00
5. Resident Engineer	\$175.00
6. Senior Engineer	\$175.00
7. Associate Engineer	\$125.00
8. Financial Analyst	\$100.00
9. Construction Manager	\$130.00
10. Staff Engineer	\$120.00
11. Inspector	\$105.00
12. Assistant Engineer	\$87.00
13. Senior Designer/Senior CADD Technician	\$90.00
14. Designer/CADD Technician	\$85.00
15. Engineering Technician	\$80.00
16. Engineering Aide	\$55.00
17. Data or Word Processing	\$60.00
18. Office Support	\$55.00

Out of pocket expenses (blueprinting, reproduction and printing, delivery, etc.) will be invoiced at cost plus 5%. Subcontracted services will be marked up 5% in order to cover costs associated with administration, coordination and management of subcontractors. Mileage will be invoiced at \$0.65/mile. This schedule of rates is in effect until December 31, 2014, at which time it may be adjusted.

APPENDIX C
Project Schedule

PROJECT SCHEDULE
City of Moreno Valley
Professional Consultant Design Services for San Timoteo Foothill
Neighborhood Flood Protection Moreno Master Plan Storm Drain Lines K1 and K4, Project No. 804 007 70 77
December 12, 2013 (Revised February 5, 2014)

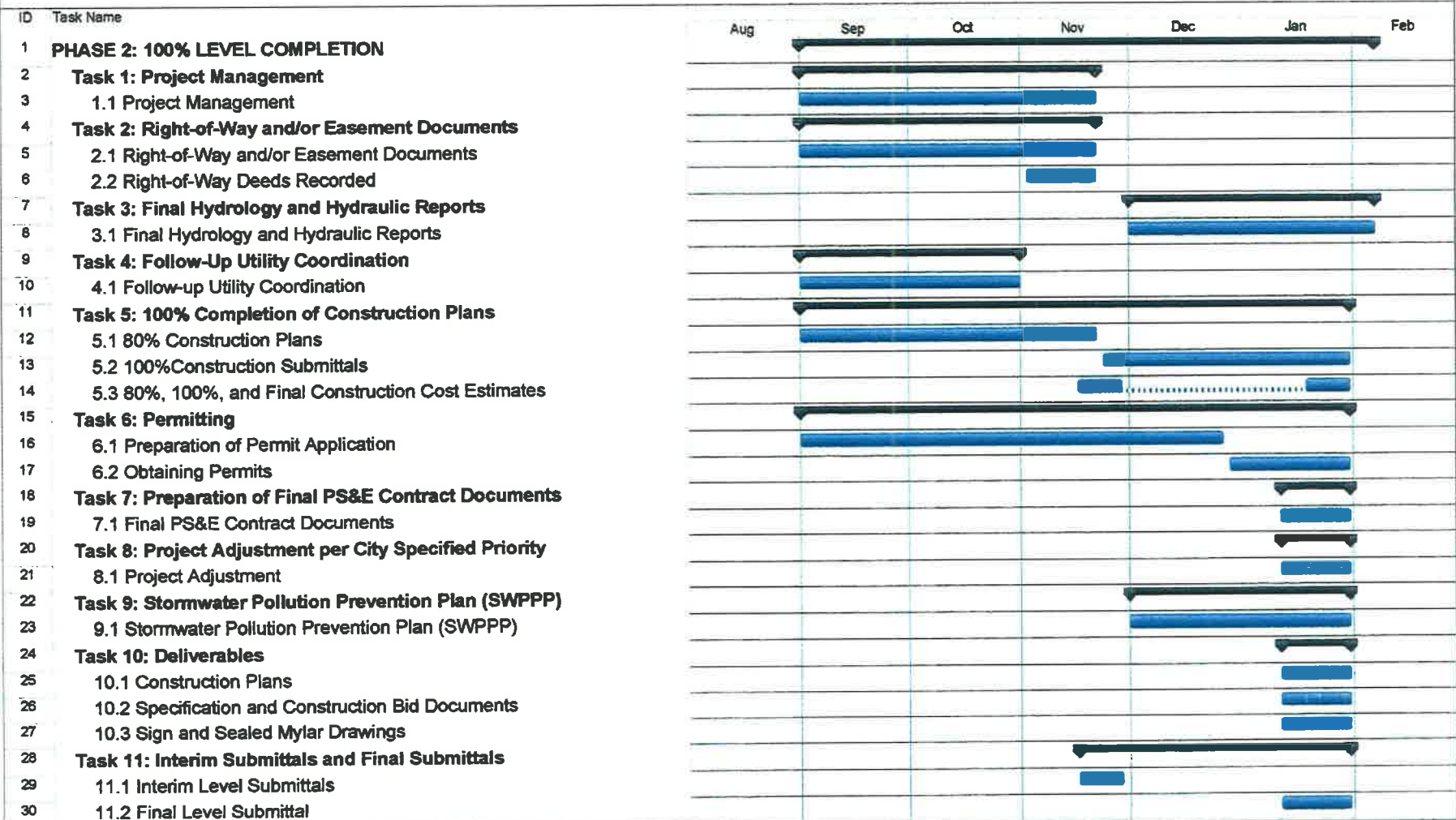


AKM Proposal No. 13-1103	Task Project Summary Split External Task Milestone External MileTask Summary Inactive Task	Inactive Milestone Inactive Summary Manual Task Duration-only	Manual Summary Rollup Manual Summary Start-only Finish-only	Progress Split
--------------------------	---	--	--	---------------------------------

-491-

Item No. A.18

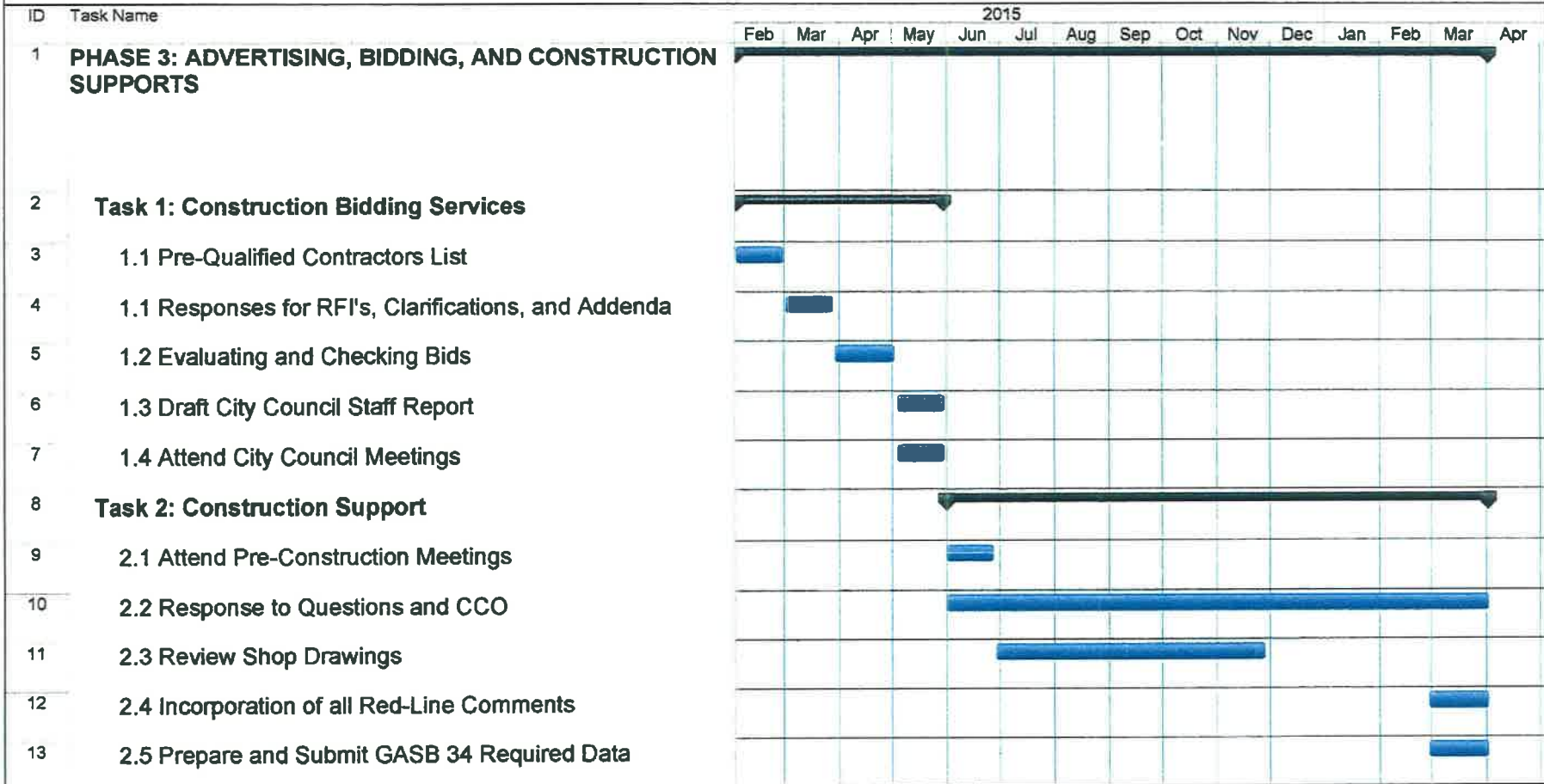
PROJECT SCHEDULE
City of Moreno Valley
Professional Consultant Design Services for San Timoteo Foothill
Neighborhood Flood Protection Moreno Master Plan Storm Drain Lines K1 and K4, PProject No. 804 007 70 77
December 12, 2013 (Revised February 5, 2014)



AKM Proposal No. 13-1103

Task		External Tasks		Manual Task		Finish-only	
Split		External MileTask		Duration-only		Progress	
Milestone		Inactive Task		Manual Summary Rollup		Split	
Summary		Inactive Milestone		Manual Summary			
Project Summary		Inactive Summary		Start-only			

PROJECT SCHEDULE
City of Moreno Valley
Professional Consultant Design Services for San Timoteo Foothill
Neighborhood Flood Protection Moreno Master Plan Storm Drain Lines K1 and K4, PProject No. 804 007 70 77
December 12, 2013 (Revised February 5, 2014)



-493-

Item No. A.18

AKM Proposal No. 13-1103	Task		External MileTask		Manual Summary Rollup	
	Split		Inactive Task		Manual Summary	
	Milestone		Inactive Milestone		Start-only	
	Summary		Inactive Summary		Finish-only	
	Project Summary		Manual Task		Progress	
	External Tasks		Duration-only		Split	

APPENDIX D

Resource Matrix (Staff Hours)

City of Moreno Valley
San Timoteo Foothill Neighborhood Flood Protection, Moreno Master Plan Storm Drain Lines K1 and K4
Project No. 804 0007 70 77

Resource Matrix (Revised February 5, 2014)

Task	Description	Project Manager	Project Engineer	Assistant Engineer	CADD Group	Clerical	Sub-Consultant Hours	Total Hours
PHASE 1: 35% LEVEL COMPLETION								
Task No. 1: Project Schedule and Management								
1.1	Project Schedule	2	2			2		6
1.2	Meetings with the City	18	18			8		44
1.3	Site Reconnaissance		4	12		2		18
Task No. 2: As-Built Plans/Records Research and Review								
2.1	City Coordination		8	32		8		48
2.2	Evaluation of Existing Improvements		4	24		8		36
Task No. 3: Utility/Agency Coordination								
3.1	Utility/Agency Coordination	2	8	24		16		50
3.2	Contact Transportation Agencies	2	8	24		16		50
3.3	Utility Conflicts or Design Issues Discussed	4	8	32		16		60
Task No. 4: Surveying Services								
4.1	Surveying		4	8	8		62	82
4.2	ADA Compliance		4	16	8	4		32
Task No. 5: Right-of-Way								
5.1	Right-of-Way Study	8	20	40	16	8	164	256
5.2	Right-of-Way Evaluation	4	4					8
Task No. 6: Geotechnical Services								
6.1	Geotechnical Engineering	2	2		4	2	115	125
Task No. 7: Potholing Services								
7.1	Potholing	0	2	8	4	2	56	72
Task No. 8: Environmental Study and CEQA Documentation								
8.1	Environmental Study	4	8	16		4	340	372
8.2	CEQA Documents	4	8	8		4	104	128
Task No. 9: Traffic Control Plans								
9.1	Traffic Control Plans (by Contractor)		0	0	0		0	0
Task No. 10: Hydrology Study and Hydraulic Analysis								
10.1	Hydrology Study	2	4	40		4		50
10.2	Hydraulic Analysis	2	4	16		4		26
Task No. 11: Determination of Requirements for Various Permits								
11.1	Determining the Requirements	4	8	32		8		52
11.2	Processing Permits		16	64		8		88
Task No. 12: 35% Design Plans Submittal Per Project Summary Memorandum and with Construction Cost Estimate								
12.1	Project Summary Memorandum	2	16			4		22
12.2	35% Design Plans Preparation	8	24	60	120	2		214
12.3	Construction Cost Estimate	2	8			2		12
Task No. 13: Preliminary Submittal for Review Comments								
13.1	35% Level Submittals	2	8	8	16	4		38
13.2	Expenses							
Sub-Total of Phase1: 35% Level Completion		72	200	464	176	136	841	1889


PHASE 2: 100% LEVEL COMPLETION							
Task No. 1: Project Management							
1.1	Project Management	16	24			8	48
Task No. 2: Right-of-Way and/or Easement Documents							
2.1	Right-of-Way and/or Easement Documents	8	24	8	24	4	68
Task No. 3: Final Hydrology and Hydraulic Reports							
3.1	Final Hydrology and Hydraulic Reports	2	8	16		2	28
Task No. 4: Follow-Up Utility Coordination							
4.1	Follow-Up Utility Coordination	2	4	8		2	16
Task No. 5: 100% Completion of Construction Plans							
5.1	80%, 100%, and Final Construction Plans	12	32	60	120	2	226
5.2	80%, 100%, and Final Specifications Submittals	12	40			16	68
5.3	80%, 100%, and Final Construction Cost Estimates	2	8			2	12
Task No. 6: Permitting							
6.1	Preparation of Permit Application		16	24		4	44
6.2	Obtaining Permits		4	16	24	4	48
Task No. 7: Preparation of Final PS&E Contract Documents							
7.1	Final PS&E Contract Documents	2	2	4	8	4	20
Task No. 8: Project Adjustment per City Specified Priority							
8.1	Project Adjustment	2	4	4	8	2	20
Task No. 9: Stormwater Pollution Prevention Plan (SWPPP)							
9.1	Stormwater Pollution Prevention Plan (SWPPP) (by Contractor)						0
Task No. 10: Deliverables							
10.1	Construction Plans	2	2		16		20
10.2	Specification and Construction Bid Documents	2	2			16	20
10.2	Sign and Sealed Mylar Drawings	2	2		8	2	14
Task No. 11: Interim Submittals and Final Submittals							
11.1	Interim Level Submittals					4	4
11.2	Final Level Submittal					2	2
11.3	Expenses						0
Sub-Total of Phase 2: 100% and Final Level Completion		64	172	140	208	74	658
PHASE 3: ADVERTISING, BIDDING, AND CONSTRUCTION SUPPORTS							
Task No. 1: Construction Bidding Services							
1.1	Responses for RFI's, Clarifications, and Addenda	6	12	10	4	4	36
1.2	Evaluating and Checking Bids (by City)						0
1.3	Draft City Council Staff Report (by City)						0
1.4	Attend City Council Meetings (by City)						0
Task No. 2: Construction Support							
2.1	Attend Pre-Construction Meetings	0	4			2	6
2.2	Response to Questions and CCO	4	16	12	12	4	48
2.3	Review Shop Drawings		40	8		2	50
2.4	Incorporation of all Red-Line Comments		2	8	24		34
2.5	Prepare and Submit GASB 34 Required Data	2	8			2	12
2.6	Expenses						
Sub-Total of Phase 3: Advertising, Bidding, and Construction Support		12	82	38	40	14	186
Addition Work as Requested by City							
Total Hours		148	454	642	424	224	841
							2,733

APPENDIX E

Certificates

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

1. Type of Federal Action: <input checked="" type="checkbox"/> a. Contract <input type="checkbox"/> b. Grant <input type="checkbox"/> c. Cooperative agreement <input type="checkbox"/> d. Loan <input type="checkbox"/> e. Loan guarantee <input type="checkbox"/> f. Loan insurance	2. Status of Federal Action: <input checked="" type="checkbox"/> a. Bid/offer/application <input type="checkbox"/> b. Initial award <input type="checkbox"/> c. Post-award	3. Report Type: <input checked="" type="checkbox"/> a. Initial filing <input type="checkbox"/> b. Material change For Material Change Only: Year _____ Quarter _____ Date of last report _____
4. Name and Address of Reporting Entity: <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee AKM Consulting Engineers Tier _____, if known 553 Wald Irvine, CA 92618 Congressional District, if known: _____		5. If Reporting Entity in No. 4 is Subawardee. Enter Name and Address of Prime: Congressional District, if known: _____
6. Federal Department/Agency: City of Moreno Valley	7. Federal Program Name/Description: San Timoteo Foothill Neighborhood Flood Protection, Moreno Master Plan Storm Drain Lines K1 and K4 Project No. 804 0007 70 77 CFDA Number, if applicable _____	
8. Federal Action Number, if known:	9. Award Amount, if known: \$ _____	
10. Name and Address of Lobbying Entity (If individual, last name, first name, MI):	b. Individuals Performing Services (including address if different from No. 10a) (Last name, first name, MI):	
11. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature:  Print Name: <u>Zeki Kayiran</u> Title: <u>President</u> Telephone No.: <u>949-735-6843</u> Date: <u>12-12-2013</u>	
Federal Use Only:		Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)

Standard Form LLL Rev. 06-04-90

W:\CapProj\CapProj\BOILER\Consultant\RFPLetter-Attachment\Boiler RFP_DBERFP Attachment-Form LLL-DBE.doc

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of covered Federal action or a material change to previous filing pursuant to Title 31 U.S.C. section 1352. The filing of a form is required for such payment or agreement to make payment to lobbying entity for influencing or attempting to influence an officer or employee of any agency, a member of Congress an officer or employee of Congress or an employee of a Member of Congress in connection with a covered Federal action. Attach a continuation sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence, the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last, previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District if known. Check the appropriate classification of the reporting entity that designates if it is or expects to be a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee if the prime is the first tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in Item 4 checks "Subawardee" then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organization level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (Item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identification in Item 1 (e.g., Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract grant, or loan award number, the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitments for the prime entity identified in Item 4 or 5.
10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in Item 4 to influenced the covered Federal action.
(b) Enter the full names of the individual(s) performing services and include full address if different from 10(a). Enter Last Name, First Name and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB NO. 0348-0046. Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503.

APPENDIX F

Cost Proposal

City of Moreno Valley
San Timoteo Foothill Neighborhood Flood Protection, Moreno Master Plan Storm Drain Lines K1 and K4
 Project No. 804 0007 70 77

Cost Proposal (Revised February 5, 2014)

Task	Description	Project Manager	Project Engineer	Assistant Engineer	CADD Group	Clerical	AKM Total Hours	AKM Labor Cost	Sub-Consultant Hours	Sub-Consultant Cost	Total Cost
PHASE 1: 35% LEVEL COMPLETION											
Task No. 1: Project Schedule and Management											
1.1	Project Schedule	2	2			2	6	\$870			\$870
1.2	Meetings with the City	18	18			8	44	\$7,280			\$7,280
1.3	Site Reconnaissance		4	12		2	18	\$1,894			\$1,894
Task No. 2: As-Built Plans/Records Research and Review											
2.1	City Coordination		8	32		8	48	\$4,704			\$4,704
2.2	Evaluation of Existing Improvements		4	24		8	36	\$3,268			\$3,268
Task No. 3: Utility/Agency Coordination											
3.1	Utility/Agency Coordination	2	8	24		16	50	\$4,838			\$4,838
3.2	Contact Transportation Agencies	2	8	24		16	50	\$4,838			\$4,838
3.3	Utility Conflicts or Design Issues Discussed	4	8	32		16	60	\$5,924			\$5,924
Task No. 4: Surveying Services											
4.1	Surveying		4	8	8		20	\$2,116	62	\$10,120	\$12,236
4.2	ADA Compliance		4	16	8	4	32	\$3,032		\$0	\$3,032
Task No. 5: Right-of-Way											
5.1	Right-of-Way Study	8	20	40	16	8	92	\$10,540	164	\$26,568	\$37,108
5.2	Right-of-Way Evaluation	4	4				8	\$1,520			\$1,520
Task No. 6: Geotechnical Services											
6.1	Geotechnical Engineering	2	2		4	2	10	\$1,210	115	\$15,332	\$16,542
Task No. 7: Potholing Services											
7.1	Potholing	0	2	8	4	2	16	\$1,516	56	\$17,172	\$18,688
Task No. 8: Environmental Study and CEQA Documentation											
8.1	Environmental Study	4	8	16		4	32	\$3,872	340	\$40,227	\$44,099
8.2	CEQA Documents	4	8	8		4	24	\$3,176	104	\$12,305	\$15,481
Task No. 9: Traffic Control Plans											
9.1	Traffic Control Plans (by Contractor)		0	0	0		0	\$0	0	\$0	\$0
Task No. 10: Hydrology Study and Hydraulic Analysis											
10.1	Hydrology Study	2	4	40		4	50	\$4,830			\$4,830
10.2	Hydraulic Analysis	2	4	16		4	26	\$2,742			\$2,742
Task No. 11: Determination of Requirements for Various Permits											
11.1	Determining the Requirements	4	8	32		8	52	\$5,484			\$5,484
11.2	Processing Permits		16	64		8	88	\$8,968			\$8,968
Task No. 12: 35% Design Plans Submittal Per Project Summary Memorandum and with Construction Cost Estimate											
12.1	Project Summary Memorandum	2	16			4	22	\$3,570			\$3,570
12.2	35% Design Plans Preparation	8	24	60	120	2	214	\$21,530			\$21,530
12.3	Construction Cost Estimate	2	8			2	12	\$1,980			\$1,980
Task No. 13: Preliminary Submittal for Review Comments											
13.1	35% Level Submittals	2	8	8	16	4	38	\$4,146			\$4,146
13.2	Expenses										\$2,000
Sub-Total of Phase1: 35% Level Completion		72	200	464	176	136	1,048	\$113,848	841	\$121,724	\$237,572
PHASE 2: 100% LEVEL COMPLETION											
Task No. 1: Project Management											
1.1	Project Management	16	24			8	48	\$8,000			\$8,000
Task No. 2: Right-of-Way and/or Easement Documents											
2.1	Right-of-Way and/or Easement Documents	8	24	8	24	4	68	\$8,956			\$8,956
Task No. 3: Final Hydrology and Hydraulic Reports											
3.1	Final Hydrology and Hydraulic Reports	2	8	16		2	28	\$3,372			\$3,372
Task No. 4: Follow-Up Utility Coordination											
4.1	Follow-Up Utility Coordination	2	4	8		2	16	\$1,936			\$1,936
Task No. 5: 100% Completion of Construction Plans											
5.1	80%, 100%, and Final Construction Plans	12	32	60	120	2	226	\$23,790			\$23,790
5.2	80%, 100%, and Final Specifications Submittals	12	40			16	68	\$10,620			\$10,620
5.3	80%, 100%, and Final Construction Cost Estimates	2	8			2	12	\$1,980			\$1,980
Task No. 6: Permitting											
6.1	Preparation of Permit Application		16	24		4	44	\$5,268			\$5,268
6.2	Obtaining Permits		4	16	24	4	48	\$4,392			\$4,392
Task No. 7: Preparation of Final PS&E Contract Documents											

7.1	Final PS&E Contract Documents	2	2	4	8	4	20	\$2,008			\$2,008
Task No. 8: Project Adjustment per City Specified Priority											
8.1	Project Adjustment	2	4	4	8	2	20	\$2,268			\$2,268
Task No. 9: Stormwater Pollution Prevention Plan (SWPPP)											
9.1	Stormwater Pollution Prevention Plan (SWPPP) (by Contractor)						0	\$0			\$0
Task No. 10: Deliverables											
10.1	Construction Plans	2	2		16		20	\$2,120			\$2,120
10.2	Specification and Construction Bid Documents	2	2			16	20	\$1,640			\$1,640
10.2	Sign and Sealed Mylar Drawings	2	2		8	2	14	\$1,550			\$1,550
Task No. 11: Interim Submittals and Final Submittals											
11.1	Interim Level Submittals					4	4	\$220			\$220
11.2	Final Level Submittal					2	2	\$110			\$110
11.3	Expenses										\$3,000
Sub-Total of Phase 2: 100% and Final Level Completion		64	172	140	208	74	658	\$78,230		\$0	\$81,230
PHASE 3: ADVERTISING, BIDDING, AND CONSTRUCTION SUPPORTS											
Task No. 1: Construction Bidding Services											
1.1	Responses for RFI's, Clarifications, and Addenda	6	12	10	4	4	36	\$4,820			\$4,820
1.2	Evaluating and Checking Bids (by City)							\$0			\$0
1.3	Draft City Council Staff Report (by City)							\$0			\$0
1.4	Attend City Council Meetings (by City)							\$0			\$0
Task No. 2: Construction Support											
2.1	Attend Pre-Construction Meetings	0	4			2	6	\$850			\$850
2.2	Response to Questions and CCO	4	16	12	12	4	48	\$6,024			\$6,024
2.3	Review Shop Drawings		40	8		2	50	\$8,206			\$8,206
2.4	Incorporation of all Red-Line Comments			8	24		34	\$3,106			\$3,106
2.5	Prepare and Submit GASB 34 Required Data	2	8			2	12	\$1,980			\$1,980
2.6	Expenses										\$1,000
Sub-Total of Phase 3: Advertising, Bidding, and Construction Support		12	82	38	40	14	186	\$24,986		\$0	\$25,986
Addition Work as Requested by City											\$5,000
Total Hours		148	454	642	424	224	1,892		841		2,733
Hourly Rate		\$195	\$185	\$87	\$85	\$55					
TOTAL		\$28,860	\$83,990	\$55,854	\$36,040	\$12,320		\$217,064		\$121,724	\$349,788

CITY - SERVICES TO BE PROVIDED
TO CONSULTANT

1. Furnish the Consultant all in-house data which is pertinent to services to be performed by the Consultant and which is within the custody or control of the City, including, but not limited to, copies of record and off-record maps and other record and off-record property data, right-of-way maps and other right-of-way data, pending or proposed subject property land division and development application data, all newly developed and pertinent design and project specification data, and such other pertinent data which may become available to the City.
2. Provide timely review, processing, and reasonably expeditious approval of all submittals by the Consultant.
3. Provide timely City staff liaison with the Consultant when requested and when reasonably needed.

TERMS OF PAYMENT

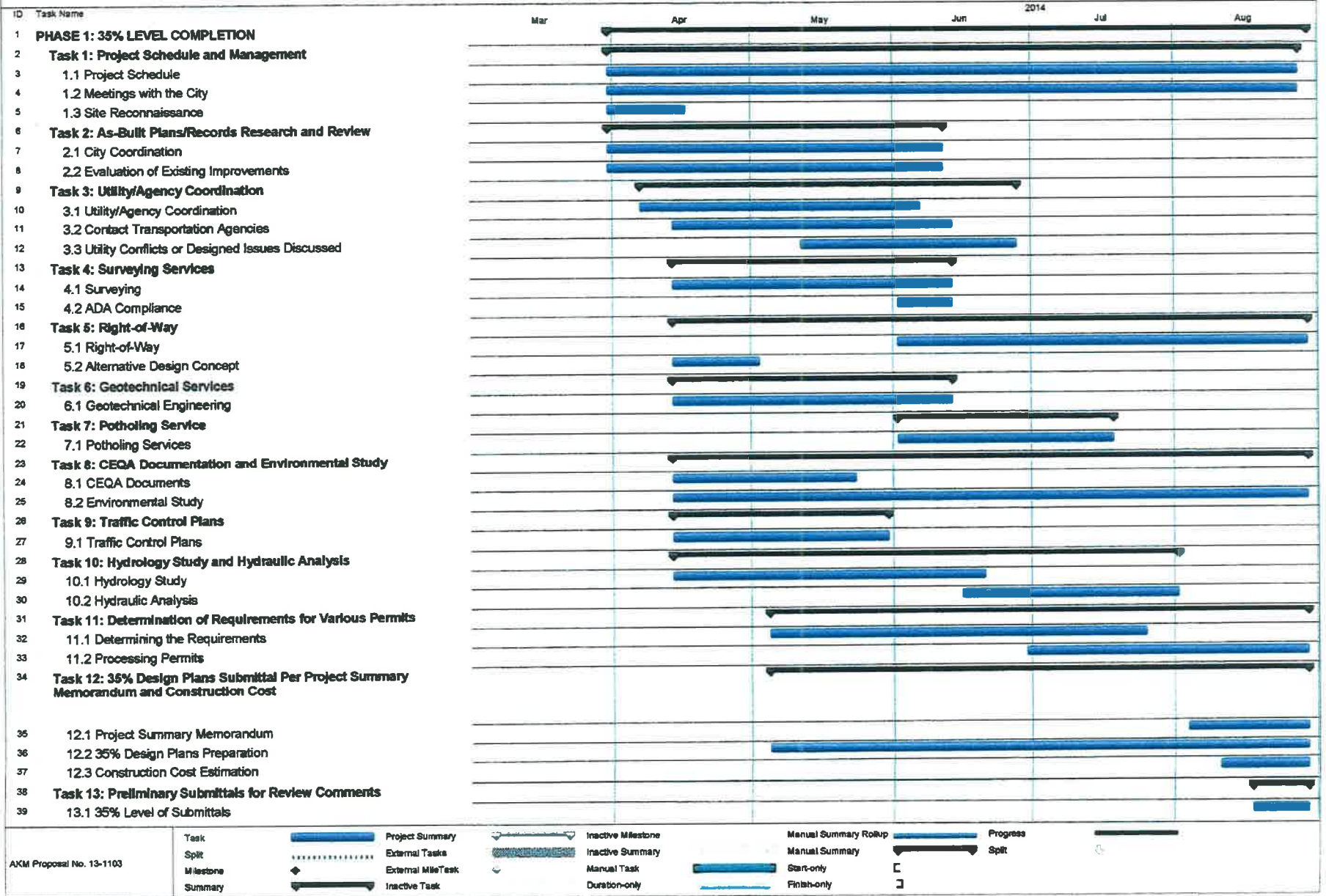
1. The Consultant's compensation shall not exceed **\$349,788**.
2. The Consultant will obtain, and keep current during the term of this Agreement, the required City of Moreno Valley business license. Proof of a current City of Moreno Valley business license will be required prior to any payments by the City. Any invoice not paid because the proof of a current City of Moreno Valley business license has not been provided will not incur any fees, late charges, or other penalties. Complete instructions for obtaining a City of Moreno Valley business license are located at: http://www.moval.org/do_biz/biz-license.shtml
3. The Consultant will electronically submit an invoice to the City for milestone payments along with documentation evidencing services completed to date. The milestone payment is based on actual time and materials expended in furnishing authorized professional services during the preceding period. The project milestones are identified in Section VIII titled "Payment to Consultant" of the City's Request for Proposal. At no time will the City pay for more services than have been satisfactorily completed and the City Engineer's determination of the amount due for any milestone payment shall be final. The consultant will submit all original invoices to Accounts Payable staff at AccountsPayable@moval.org. Accounts Payable questions can be directed to (951) 413-3073. Copies of invoices may be submitted to the Capital Projects Division, calls directed to (951) 413-3155.

EXHIBIT "D"
PROJECT NO. 804 0007 70 77

4. The Consultant agrees that City payments will be received via Automated Clearing House (ACH) Direct Deposit and that the required ACH Authorization form will be completed prior to any payments by the City. Any invoice not paid because the completed ACH Authorization Form has not been provided will not incur any fees, late charges, or other penalties. The ACH Authorization Form is located at:

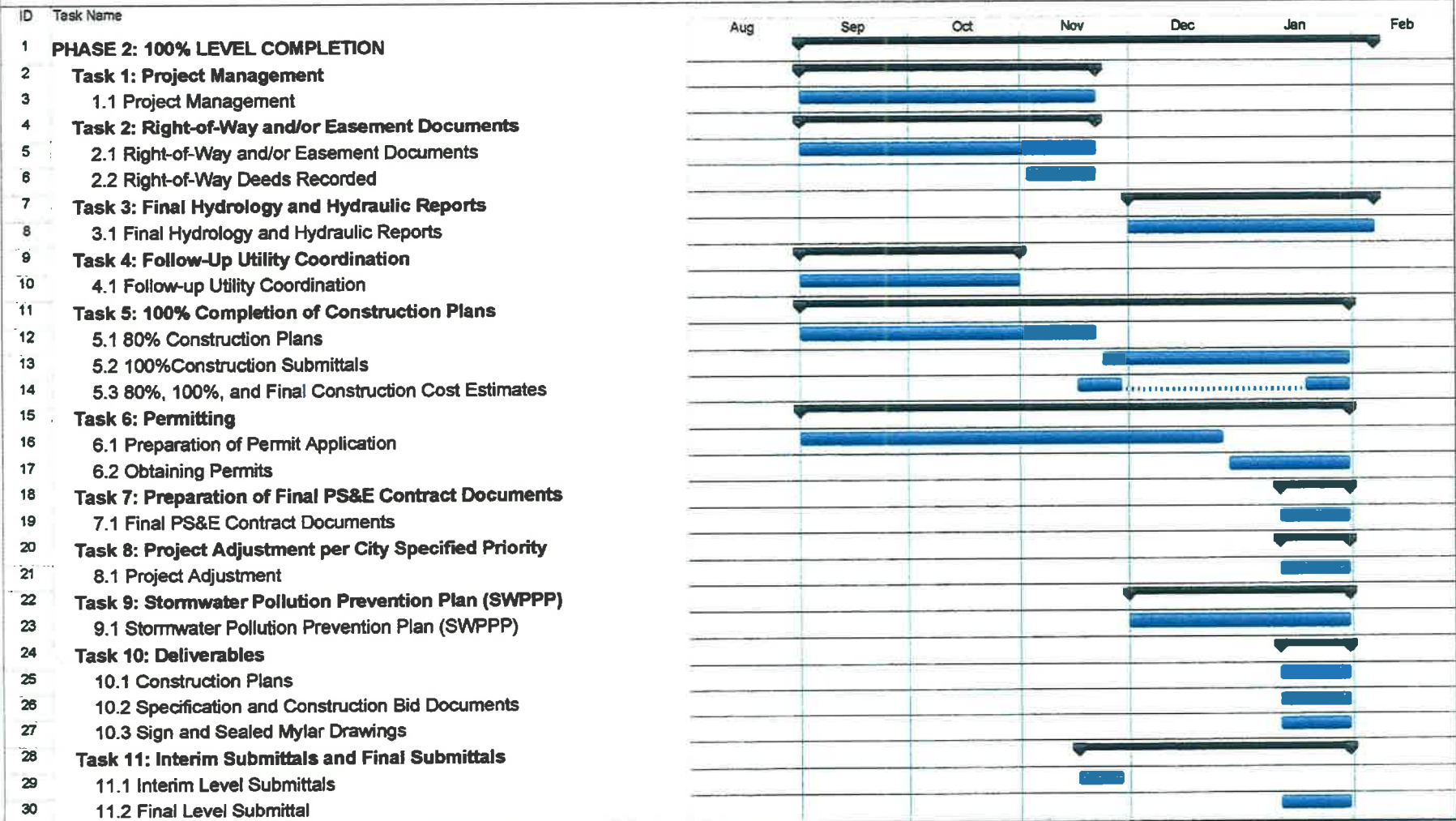
http://www.moval.org/city_hall/forms.shtml#bf
5. The minimum information required on all invoices is:
 - A. Vendor Name, Mailing Address, and Phone Number
 - B. Invoice Date
 - C. Vendor Invoice Number
 - D. City-provided Reference Number (e.g. Project, Activity)
 - E. Detailed work hours by class title (e.g. Manager, Technician, or Specialist), services performed and rates, explicit portion of a contract amount, or detailed billing information that is sufficient to justify the invoice amount; single, lump amounts without detail are not acceptable.
6. The City shall pay the Consultant for all invoiced, authorized professional services within forty-five (45) days of receipt of the invoice for same.

PROJECT SCHEDULE
 City of Moreno Valley
 Professional Consultant Design Services for San Timoteo Foothill
 Neighborhood Flood Protection Moreno Master Plan Storm Drain Lines K1 and K4, Project No. 804 007 70 77
 December 12, 2013 (Revised February 5, 2014)



AKM Proposal No. 13-1103	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress
	Split		External Task		Inactive Summary		Manual Summary		Split
	Milestone		External MileTask		Manual Task		Start-only		
	Summary		Inactive Task		Duration-only		Finish-only		

PROJECT SCHEDULE
City of Moreno Valley
Professional Consultant Design Services for San Timoteo Foothill
Neighborhood Flood Protection Moreno Master Plan Storm Drain Lines K1 and K4, PProject No. 804 007 70 77
December 12, 2013 (Revised February 5, 2014)

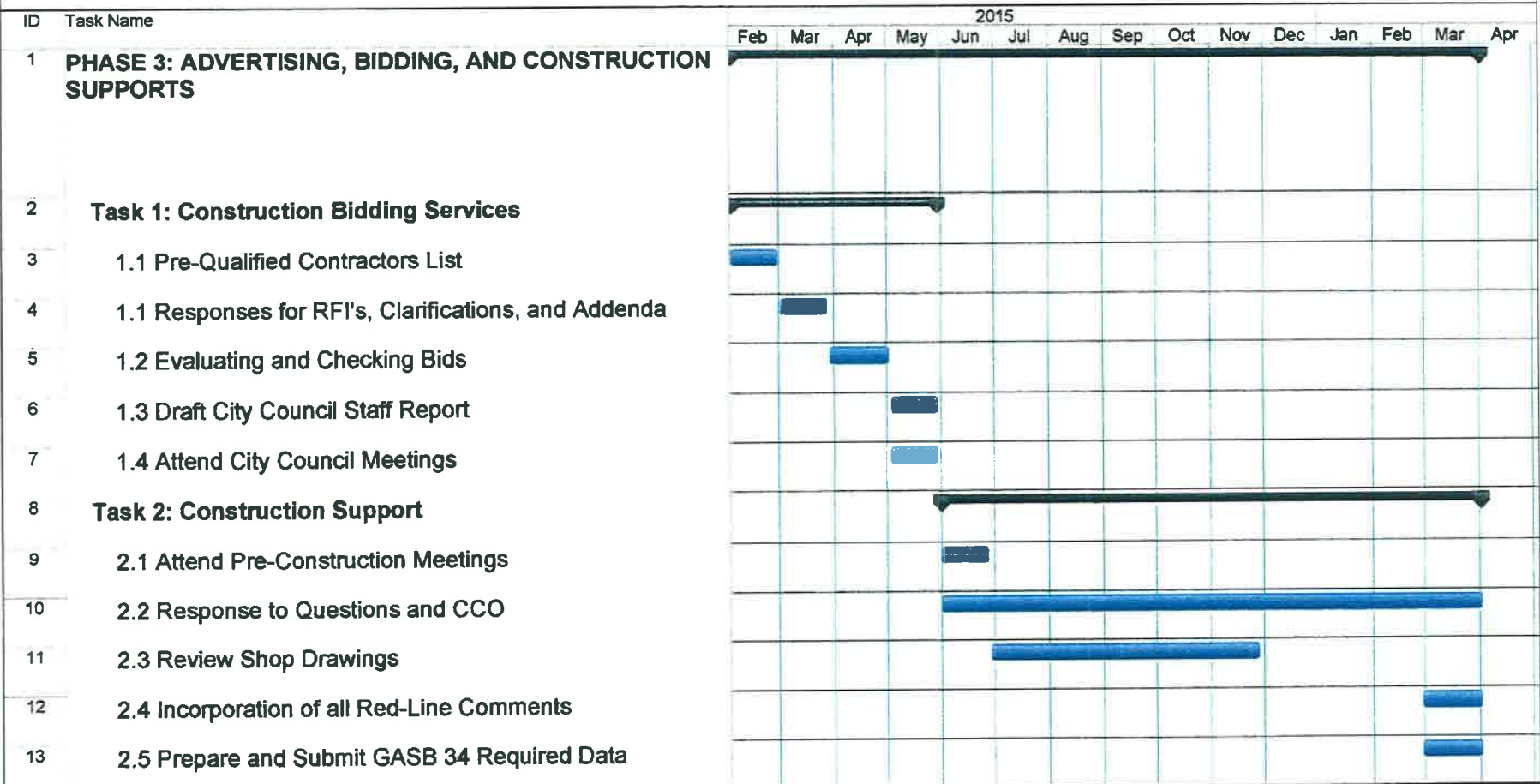


AKM Proposal No. 13-1103	Task		External Tasks		Manual Task		Finish-only	
	Split		External MileTask		Duration-only		Progress	
	Milestone		Inactive Task		Manual Summary Rollup		Split	
	Summary		Inactive Milestone		Manual Summary			
	Project Summary		Inactive Summary		Start-only			

-507-

Item No. A.18

PROJECT SCHEDULE
City of Moreno Valley
Professional Consultant Design Services for San Timoteo Foothill
Neighborhood Flood Protection Moreno Master Plan Storm Drain Lines K1 and K4, PProject No. 804 007 70 77
December 12, 2013 (Revised February 5, 2014)



AKM Proposal No. 13-1103	Task		External MileTask		Manual Summary Rollup	
	Split		Inactive Task		Manual Summary	
	Milestone		Inactive Milestone		Start-only	
	Summary		Inactive Summary		Finish-only	
	Project Summary		Manual Task		Progress	
	External Tasks		Duration-only		Split	



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: NOTICE OF COMPLETION AND ACCEPTANCE OF PEDESTRIAN RELATED IMPROVEMENTS FOR CITYWIDE PEDESTRIAN ENHANCEMENTS – PROJECT NO. 801 0040 70 77

RECOMMENDED ACTION

Recommendations:

1. Authorize the Public Works Director/City Engineer to accept the work as completed for construction of the Citywide Pedestrian Enhancements constructed by PTM General Engineering Services, Inc., 5942 Acorn Street, Riverside, CA 92504.
2. Direct the City Clerk to record the Notice of Completion within ten (10) calendar days after the Public Works Director/City Engineer accepts the improvements as complete at the office of the County Recorder of Riverside County as required by Section 3093 of the California Civil Code.
3. Authorize the release of the retention to PTM General Engineering Services, Inc. 35 calendar days after the date of recordation of the Notice of Completion if no claims are filed against the project.
4. Authorize the Public Works Director/City Engineer to accept the improvements into the City's maintained system upon acceptance of the improvements as complete.

SUMMARY

This report recommends authorization for the Public Works Director/City Engineer to accept improvements constructed by PTM General Engineering Services, Inc. (PTM) for the Citywide Pedestrian Enhancements as complete, directs the City Clerk to record the Notice of Completion upon acceptance of the improvements by the Public Works Director/City Engineer, authorization to release the retention when appropriate, and for

the improvements to be accepted into the City maintained system to allow for the close-out of the project.

DISCUSSION

On May 28, 2013, the City Council authorized the City Manager to award and execute the construction contract for the Citywide Pedestrian Enhancements project. This project was funded through the Riverside County Transportation Commission (RCTC) SB 821 Bicycle and Pedestrian Facilities Program (SB 821 grant) grant of \$75,000 with matching funds from Gas Tax (Fund 2000) and Measure A (Fund 2001), the Annual Americans with Disabilities Act (ADA) Compliant Curb Ramp Upgrades fund and the citywide Annual Pavement Resurfacing fund.

The project was designed in-house as a cost-savings measure and construction resulted in the installation of new pedestrian push buttons, sidewalk, twenty-eight (28) ADA compliant access ramps, and appurtenances at select locations throughout the City. The project locations were selected from the Public Right of Way Access ADA Transition Plan Tier 1 priority list and from requests by disabled residents.

Locations of the improvements are as follows:

- Patricia Street between Margaret Avenue and Gentian Avenue: Construct fourteen (14) ADA ramps at five intersections.
- Cottonwood Avenue at Dilbeck Drive: Construct two (2) ADA ramps.
- Alessandro Boulevard at Chagall Court: Reconstruct two (2) ADA compliant ramps.
- Alessandro Boulevard at Ramsdell Drive: Reconstruct two (2) ADA compliant ramps.
- John F. Kennedy Drive at Ely Drive: Reconstruct two (2) ADA compliant ramps.
- Centerpoint Drive at Center Plaza: Reconstruct four (4) ADA compliant ramps.
- Manzanita Avenue approach west of Indian Street: realignment and installation a pedestrian crosswalk and (2) two ADA compliant ramps.

Staff published a Notice Inviting Bids on June 6, 2013 and followed formal bidding procedures in conformance with Public Contract Code. The bid opening was held on July 23, 2013 at 10:15 a.m. by the City Clerk. Five (5) bids were received and PTM General Engineering Service Inc. (PTM) was identified as the lowest responsible bidder by comparing the cumulative total for all bid items. The construction contract with PTM was executed on August 20, 2013.

PTM completed the construction and all punch list items on January 23, 2014 in the final amount of \$411,621.50, well within the original purchase order amount of \$417,240.07. Staff recommends the Public Works Director/City Engineer be granted the necessary authorizations to accept the improvements as complete, to allow for the recordation of a Notice of Completion, and accept the improvements into the City maintained system so the project may be closed-out.

ALTERNATIVES

1. Approve and authorize the recommended actions as presented in this staff report. *This alternative will provide for the timely acceptance, completion, and close-out of the Citywide Pedestrian Enhancement Project Improvements.*

2. Do not approve and authorize the recommended actions as presented in this staff report. *This alternative will delay the timely acceptance, completion, and close-out of the Citywide Pedestrian Enhancement Project Improvements.*

FISCAL IMPACT

The SB 821 grant will provide for reimbursement of up to \$75,000. The Project includes local match Measure A and Gas Tax monies. There is no impact to the General Fund.

FISCAL YEAR 2012/2013 FUNDS AVAILABLE:

Annual ADA Compliant Curb Ramp Upgrades (Account No. 2000-70-77-80001, Project No. 801 0008 70 77)	\$125,000
Indian St/Manzanita Ave Intersection Reconfiguration (Account No. 2001-70-77-80001, Project No. 801 0006 70 77)	\$41,000
Citywide Pedestrian Enhancements (Account No. 2001-70-77-80001, Project No. 801 0040 70 77)	\$71,000
Annual Pavement Resurfacing Program (Account No. 2001-70-77-80001, Project No. 801 0003 70 77)	\$178,000
SCAG Article 3 (SB 821 grant) (Account No. 2800-70-77-80001, Project No. 801 0040 70 77)	<u>\$75,000</u>
Total	\$490,000

ESTIMATED CONSTRUCTION RELATED COSTS:

Construction	\$412,000
Construction Geotechnical Services.....	\$20,000
Construction Survey Services	\$25,000
Construction Management & Project Administration*.....	<u>\$33,000</u>
Total	\$490,000

**Construction Management, Project Administration, and Inspection Services provided in-house*

CITY COUNCIL GOALS

PUBLIC SAFETY:

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

PUBLIC FACILITIES AND CAPITAL PROJECTS:

Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

ATTACHMENTS

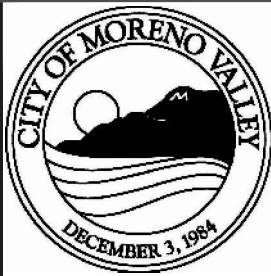
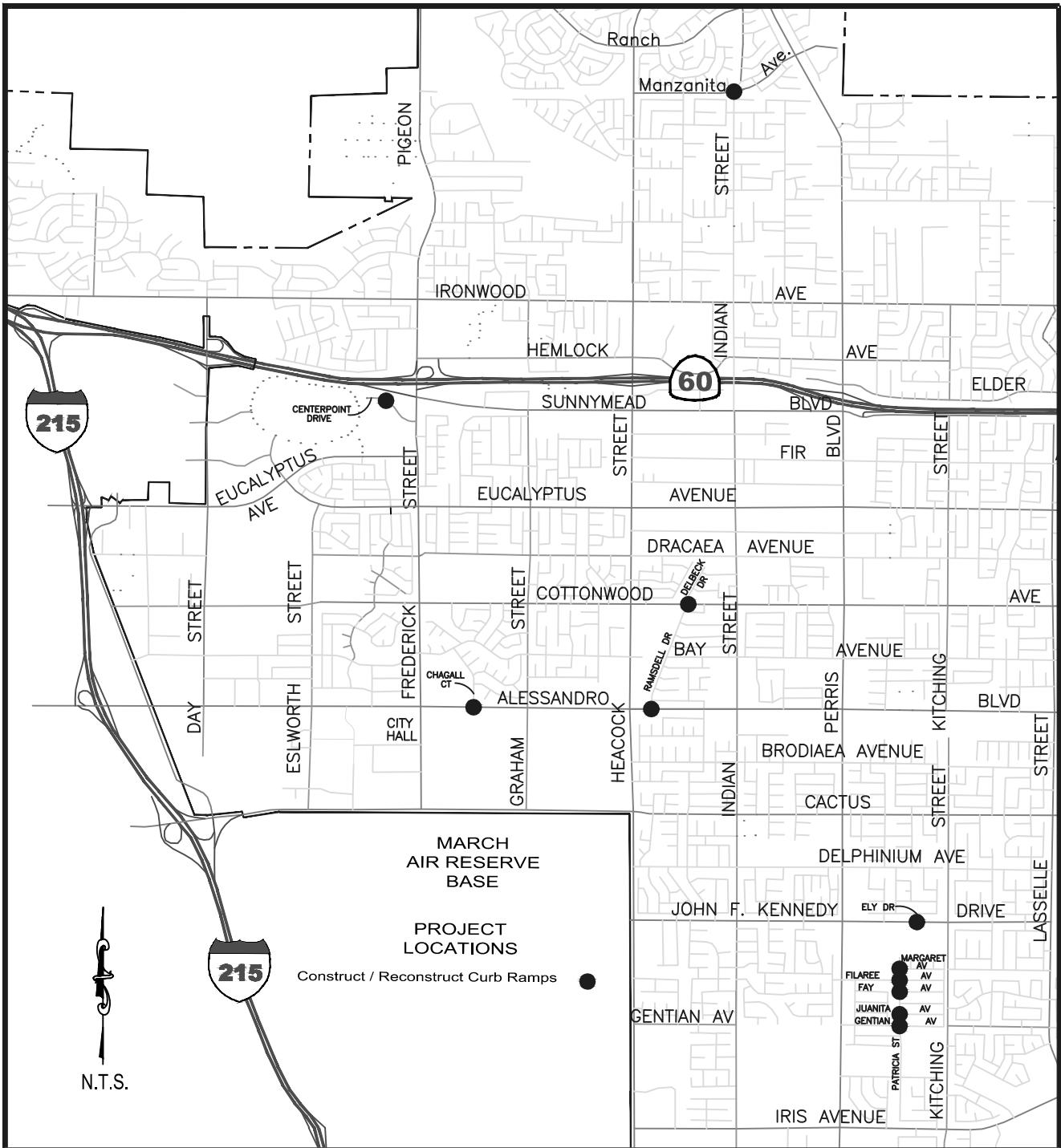
Attachment 1: Location Map

Prepared By:
Guy Pegan, P.E.
Consultant Project Manager

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By:
Prem Kumar, P.E.
Deputy Public Works Director/Assistant City Engineer

W:\CAPP\PROJECTS\GUY - 801 0040 70 77 - FY 11-12 SB\821 CITYWIDE PEDESTRIAN ENHANCEMENT\DESIGN PHASE\AUTO CAD\LOCATION.MAP\FY12-13_LOC_MAP.DWG



LOCATION MAP

Public Works Department
Capital Projects Division

Scale: None

ATTACHMENT 1

CITYWIDE PEDESTRIAN ENHANCEMENTS PROJECT

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: PA07-0080, PM 35672 – REQUEST TO EXTEND THE FULL ROAD CLOSURE OF INDIAN STREET FROM IRIS AVENUE TO KRAMERIA AVENUE AND IRIS AVENUE BETWEEN INDIAN STREET AND CONCORD WAY FOR THE CONSTRUCTION OF STREET IMPROVEMENTS UNTIL APRIL 7, 2014

RECOMMENDED ACTION

Recommendations:

1. Authorize the extension of a full road closure of Indian Street from Iris Avenue to Krameria Avenue and Iris Avenue between Indian Avenue and Concord Way for the construction of street improvements until April 7, 2014.
2. Authorize the City Engineer to allow for an additional 30-day extension in addition to the extension being requested to the proposed road closure window if the project is delayed due to unforeseen construction issues.

SUMMARY

This report recommends that the Council approve the road closure to construct public improvements on Indian Street from Iris Avenue to Krameria Avenue and Iris Avenue between Indian Street and Concord Way. The project is funded by the developer, Panattoni Construction, Inc.

DISCUSSION

On July 9, 2013, City Council approved the road closure of Indian Street from Iris Avenue to Krameria Avenue and Iris Avenue between Indian Avenue and Concord

Way. The road closure was conducted in such a manner that it provides local and emergency vehicle access to affected properties. Due to the nature and complexity of the required public improvements, the Developer requested a full road closure. On January 14, 2014, due to construction conflicts and coordination with outside agencies, the developer requested an extension of time for the road closure to the end of February, 2014. However, due to unforeseen delays, the developer is again requesting an extension of the road closure until April 7, 2014.

The entire duration of road closure will be seventeen (17) weeks or approximately 120 calendar days. The request for the road closure is due to major improvement work including, but not limited to, removal of existing asphalt pavement, installation of major storm drain facilities, asphalt paving, sidewalk, street lights, landscaping, catch basins and storm drain laterals, utilities and associated signing and striping. All of the work will be reviewed by inspectors from the City of Moreno Valley. It is anticipated that the road will be open to traffic on April 7, 2014.

There are two (2) single family homes within the area of the closure. The road closure will affect the ingress or egress of these parcels, so the contractor will coordinate with the occupants to ensure safe access to and from the properties as needed. The road closure will also require a detour to the traveling public. The contractor performing the roadway improvements will phase the work such that both roads will not be closed at the same time. In addition, the contractor is being required to maintain safe pedestrian access along Indian Street throughout the duration of the construction.

City staff was advised by the developer that all potentially affected property owners have been contacted/notified, as has the principal for the adjacent public school. The road closure/detour/traffic control plan for this closure has been reviewed and approved by the City Traffic Engineer.

ALTERNATIVES

1. Authorize an extension of the full road closure of Indian Street from Iris Avenue to Krameria Avenue and Iris Avenue between Indian Avenue and Concord Way for the construction of street improvements until April 7, 2014. Authorize the City Engineer to allow for an additional 30-day extension to the proposed road closure window if the project is delayed due to unforeseen construction issues.
2. Do not authorize an extension of the full road closure of Indian Street from Iris Avenue to Krameria Avenue and Iris Avenue between Indian Avenue and Concord Way for the construction of street improvements until April 7, 2014. Do not authorize the City Engineer to allow for an additional 30-day extension to the proposed road closure window if the project is delayed due to unforeseen construction issues. *There would be no road closure. This alternative would result in an unsafe work environment and would significantly delay the completion of this project.*

FISCAL IMPACT

The developer will be responsible for all costs associated with this proposal.

CITY COUNCIL GOALS

PUBLIC SAFETY

Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

NOTIFICATION

The approved traffic control/detour plan requires the contractor to give notification to the Post Office, Police, Fire Department, Ambulance Services, Riverside Transit Authority, Waste Management, and nearby school. The public will be notified by special roadside signage showing the dates of closure and detour signs.

ATTACHMENTS

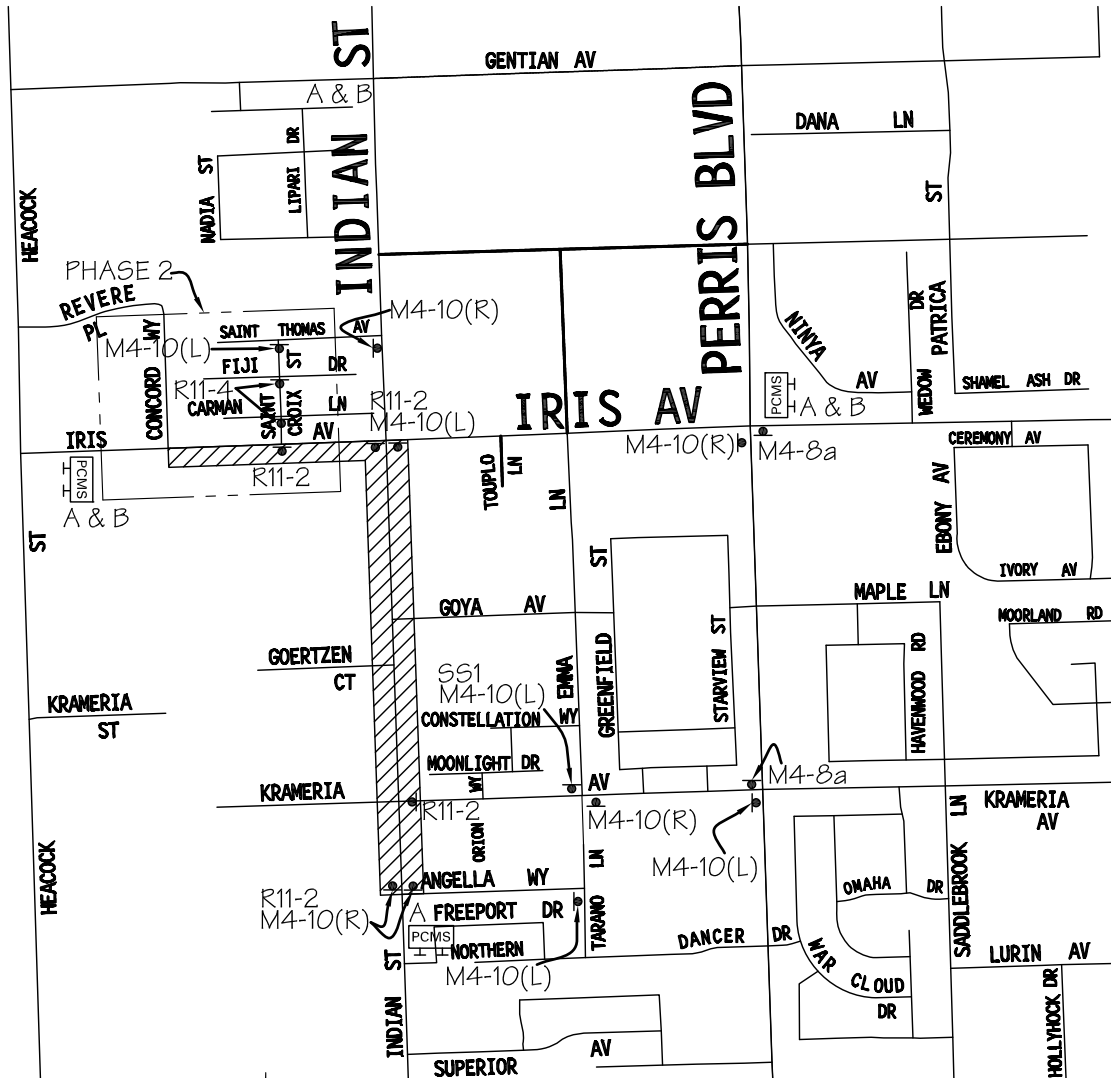
Attachment 1 – Road Closure Detour Map

Prepared By
Mark W. Sambito, P.E.
Engineering Division Manager

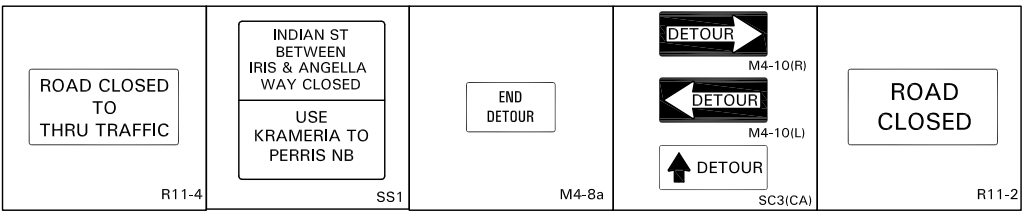
Department Head Approval
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

Concurred By
Eric Lewis, P.E.
City Traffic Engineer

This page intentionally left blank.



N
DETOUR PLAN - NO SCALE



Road Closure Detour Map

PA07-0080

This page intentionally left blank.

**MINUTES - REGULAR MEETING OF FEBRUARY 11, 2014
(Report of: City Clerk Department)**

Recommendation: Approve as submitted.

SEE AGENDA ITEM A.2

This page intentionally left blank.

**MINUTES - REGULAR MEETING OF FEBRUARY 11, 2014
(Report of: City Clerk Department)**

Recommendation: Approve as submitted.

SEE AGENDA ITEM A.2

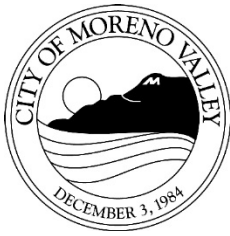
This page intentionally left blank.

**MINUTES - REGULAR MEETING OF FEBRUARY 11, 2014
(Report of: City Clerk Department)**

Recommendation: Approve as submitted.

SEE AGENDA ITEM A.2

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Richard Teichert, Chief Financial Officer

AGENDA DATE: February 25, 2014

TITLE: PUBLIC HEARING REGARDING THE MAIL BALLOT PROCEEDINGS FOR ASSESSOR'S PARCEL NUMBERS 482-190-019; AND 316-210-071, -073, -075, AND -079 BALLOTING FOR NPDES

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Conduct the Public Hearing and accept public testimony regarding the mail ballot proceedings for Assessor's Parcel Numbers (APNs) 482-190-019; and 316-210-071, -073, -075, and -079 for approval of the National Pollutant Discharge Elimination System (NPDES) maximum annual rate.
2. Direct the City Clerk to tabulate the NPDES ballots for APNs 482-190-019; and 316-210-071, -073, -075, and -079.
3. Verify and accept the results of the mail ballot proceedings as identified on the Official Tally Sheet.
4. Receive and file with the City Clerk's office the accepted Official Tally Sheet.
5. If approved, authorize and impose the NPDES maximum commercial/industrial regulatory rate to APNs 482-190-019; and 316-210-071, -073, -075, and -079.

SUMMARY

The action before the City Council is to conduct a Public Hearing to accept public testimony, tabulate the returned ballots, verify, and accept the results of the mail ballot proceedings for APNs 482-190-019; and 316-210-071, -073, -075, and -079.

DISCUSSION

To comply with the 1972 Federal Clean Water Act, Land Development, a division of the Public Works Department, conditions new development projects to participate in the appropriate NPDES regulatory rate to fund federally mandated programs. The City Council adopted the residential regulatory rate on June 10, 2003, and the commercial/industrial regulatory rate on January 10, 2006.

New development projects are subject to the current NPDES Permit requirements for stormwater management as mandated by the Federal Clean Water Act. Public agencies are to obtain Permits to discharge urban stormwater runoff from municipally owned drainage facilities, including streets, highways, storm drains, and flood control channels. With funding support provided by property owners, the City annually inspects site design, source and treatment control Best Management Practices, monitors maintenance records for those on-site facilities, and performs annual inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

J. Taylor, property owner of APN 482-190-019 and Moreno Knox, property owner of APNs 316-210-071, -073, -075, AND -079 (collectively the "Property Owners") have chosen to satisfy their Conditions of Approval to help support the NPDES program by approving the annual rate to be collected on the Riverside County property tax bill. Mail Ballot proceedings are being conducted in compliance with Proposition 218, which requires that any new or proposed increase in property-related assessments, fees, or charges be submitted to Property Owners for approval. The Property Owners are given two opportunities to address the legislative body. These two opportunities are the Public Meeting which was held on February 11, 2014 and the Public Hearing on February 25, 2014, when the results of the ballot proceeding will be announced.

Approval of the NPDES maximum commercial/industrial regulatory rate fulfills their Conditions of Approval. Provided the mail ballots are approved, the City will be authorized to annually levy the NPDES maximum commercial/industrial regulatory rate on the Riverside County property tax bill or as a monthly charge on a utility bill.

ALTERNATIVES

1. **Conduct the Public Hearing**, tabulate the ballots, verify, and accept the results of the mail ballot proceedings as identified on the Official Tally Sheet, receive and file with the City Clerk's office the accepted Official Tally Sheet, and if approved, authorize and impose the NPDES maximum commercial/industrial regulatory rate to APNs 482-190-019; and 316-210-071, -073, -075, and -079. *This alternative will fulfill the 45-day noticing period and Public Hearing requirements as mandated by Proposition 218.*
2. **Open the Public Hearing and continue** the hearing to a future regular City Council meeting. *This alternative will fulfill the 45-day noticing period and Public Hearing*

requirements as mandated by Proposition 218. This alternative will not incur any additional costs for re-noticing.

3. **Do not conduct the Public Hearing**, tabulate the ballots, verify, or accept the results of the mail ballot proceedings. *This alternative prohibits the property owner from satisfying their Conditions of Approval utilizing this funding mechanism.*
4. **Do not conduct the Public Hearing** at this time but reschedule it to a date certain, at a regular City Council meeting. *This alternative would require the 45-day noticing period to start over and cause additional costs to be incurred for re-noticing.*

FISCAL IMPACT

For fiscal year (FY) 2013/14, the maximum NPDES annual regulatory rate is \$223 per parcel. The NPDES rate is levied on a per parcel basis so if parcels merge, creating one parcel, the property owner will only be levied the current rate each year based on the one parcel. The NPDES rates collected from property owners support the current Permit programs and reduce the level of General Fund support necessary to remain in compliance with unfunded federal mandates, as administered by the State. **Funds collected from the NPDES rates are restricted for use only within the Stormwater Management program.**

CITY COUNCIL GOALS

Advocacy

Management of the stormwater will ensure that water pollutants are discharged in compliance with federal mandates and City policies.

Revenue Diversification and Preservation

The NPDES maximum commercial/industrial regulatory rate provides funding for program costs, which include maintenance and administration.

NOTIFICATION

The Property Owners were given the required 45-day noticing period to review the ballot documents. The documents included a notice to the property owner, map of the project area, NPDES ballot, instructions for marking and returning the ballot, and a postage-paid envelope for returning the ballot to the City Clerk. (See Attachments 1 and 2.)

Newspaper advertising for the February 11, 2014, Public Meeting and February 25, 2014, Public Hearing was published in The Press-Enterprise on January 27, 2014. Additionally, the Public Hearing notification was published on February 6 and again on February 13, 2014.

ATTACHMENTS

- | | |
|---------------|------------------------------------|
| Attachment 1: | Mail Ballot Packet for J. Taylor |
| Attachment 2: | Mail Ballot Packet for Moreno Knox |

Prepared by:
Jennifer Terry,
Management Analyst

Concurred by:
Candace E. Cassel,
Special Districts Division Manager

Department Head Approval:
Richard Teichert
Chief Financial Officer

Concurred by:
Mark W. Sambito, P.E.
Engineering Division Manager

TEL: 951.413.3480
 FAX: 951.413.3498
 WWW.MOVAL.ORG



14331 FREDERICK STREET, SUITE 2
 P. O. BOX 88005
 MORENO VALLEY, CA 92552-0805

John C Taylor
 Re: Kroger Fueling Station
 P.O. Box 15271
 Long Beach, CA 90815

January 9, 2014

NOTICE TO PROPERTY OWNER-MAIL BALLOT PROCEEDING FOR APN 482-190-019 FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAXIMUM COMMERCIAL/INDUSTRIAL REGULATORY RATE AND FOR COMMUNITY SERVICES DISTRICT (CSD) ZONE M (COMMERCIAL, INDUSTRIAL, AND MULTIFAMILY IMPROVED MEDIAN MAINTENANCE)

******* OFFICIAL BALLOTS ENCLOSED *******

Introduction

In November of 1996, California voters passed Proposition 218 ("The Right to Vote on Taxes Act"). As a result, any new or proposed increase in a property-related charge requires approval of the charge by the property owner of record. In compliance with Proposition 218 legislation, the City of Moreno Valley Special Districts Division is conducting a mail ballot proceeding to provide the owner of Assessor's Parcel Number (APN) 482-190-019 the opportunity to express support for or opposition to the approval of the NPDES regulatory rate and services, and for inclusion into and approval of the annual charge for the CSD Zone M program.

Background

NPDES Maximum Commercial/Industrial Regulatory Rate

The City shall provide the services necessary to meet mandates of the Federal Clean Water Act. The current NPDES Permit, as administered by the State, regulates the volume and amount of pollutants in stormwater runoff from all development types. NPDES Maximum Commercial/Industrial Regulatory Rate provides financial support to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

CSD Zone M Charge

The CSD was formed simultaneously with City incorporation and established Zones to allocate the costs of special benefit services to those parcels designated to receive selective programs. The CSD Zone M program provides ongoing maintenance to improved medians adjacent to commercial, industrial, and multifamily developments in designated areas of the City. Commercial, industrial, and multifamily developments along designated arterial streets are conditioned to participate in the improved median maintenance program in compliance with the Citywide Arterial Median Maintenance Policy approved by the CSD Board in March 2003 and revised in January 2006.

Services Provided

NPDES Maximum Commercial/Industrial Regulatory Rate

In compliance with the Federal Clean Water Act, the City of Moreno Valley shall annually inspect site design, source and treatment control Best Management Practices, verify monitoring and maintenance records for those on-site facilities, and perform annual inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

CSD Zone M Charge

Special Districts Division staff manages private landscape maintenance firms to ensure that landscape preservation activities are completed on a regular schedule. The CSD Zone M annual charge was established to cover administration and service costs for the landscape maintenance. Services include, but are not limited to: trimming, pruning, fertilizing, replacing plant material(s) as necessary, litter removal, weed control, maintenance of the irrigation system, payment of water and electric utility charges, staff support, and other items necessary for the satisfactory maintenance of the landscaped medians.

How is the Amount of the Charge Determined?

NPDES Maximum Commercial/Industrial Regulatory Rate

Each fiscal year (FY), the City of Moreno Valley shall determine the type of services necessary to comply with NPDES Permit requirements and levy the rate applicable for that service. The rate levied shall not exceed the rate previously approved by the property owner.

CSD Zone M Charge

The annual CSD Zone M charge includes maintenance and administration costs. The CSD Zone M charge shall be proportionally adjusted based on parcel acreage if the previously mentioned APN is subdivided in the future. The charge levied shall not exceed the charge previously approved by the property owner.

Proposed Charge

NPDES Maximum Commercial/Industrial Regulatory Rate

For FY 2013/14, the NPDES maximum commercial/industrial regulatory rate is \$223.00 per parcel. The total amount of the NPDES rates levied for FY 2013/14 for the program as a whole was \$419,571.00.

CSD Zone M Charge

The CSD Zone M annual charge for FY 2013/14 for the existing Alessandro Blvd. median is \$179.16. The total amount of the CSD Zone M charges levied for FY 2013/14 for the program as a whole was \$165,549.72.

Annual Adjustment

NPDES Maximum Commercial/Industrial Regulatory Rate

Beginning in FY 2014/15, the NPDES Maximum Commercial/Industrial Regulatory Rate shall be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

CSD Zone M Charge

Beginning in FY 2014/15, the CSD Zone M charge shall be subject to an annual adjustment based on the percentage change calculated for the previous calendar year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

Duration of the Charge

Upon approval of the NPDES Maximum Commercial/Industrial Regulatory Rate, the annual levy amount will be assessed to APN 482-190-019 (and any division thereof) and shall be placed on the Riverside County property tax bill or as a monthly charge on a utility bill. Upon approval, the CSD Zone M charge shall be placed on the Riverside County property tax bill. The NPDES Maximum Commercial/Industrial regulatory rate and the CSD Zone M charge will be levied each following year at the proposed rate, which may include an annual inflation adjustment.

Public Hearing

To provide information concerning this mail ballot proceeding the City/CSD has scheduled one (1) Public Meeting and one (1) Public Hearing, which will be held at the **Moreno Valley City Hall Council Chamber located at 14177 Frederick Street, Moreno Valley.**

<u>Public Meeting</u>	<u>Public Hearing</u>
Tuesday, February 11, 2014 6:00 P.M. (Or As Soon Thereafter As The Matter May Be Called)	Tuesday, February 25, 2014 6:00 P.M. (Or As Soon Thereafter As The Matter May Be Called)

Tabulation of all returned ballots will commence after the close of the Public Hearing. All ballots received shall be tabulated under the direction of the City Clerk/Secretary of the CSD Board of Directors in compliance with the current Policy For Conducting Mail Ballot Proceedings Policy #1.12.

Effect if Inclusion into and Approval of the Charges are Approved

Approval of the NPDES Maximum Commercial/Industrial maximum regulatory rate will be confirmed if the ballot is marked in favor of the NPDES rate. Inclusion into the CSD Zone M program and approval of the annual charge will be confirmed if the ballot is marked in favor of the annual charge.

Effect if Inclusion into and Approval of the Charges are Not Approved

NPDES Maximum Commercial/Industrial Regulatory Rate

Not approving the NPDES commercial/industrial regulatory rate to meet federally mandated NPDES Permit requirements will not satisfy the Conditions of Approval. If the returned valid ballot is marked opposing the NPDES rate, then the rate will not be levied on the property tax bill.

CSD Zone M Charge

If the ballot is marked in opposition to the CSD Zone M annual charge, then the annual charge will not be levied on the property tax bill and the Conditions of Approval will not be satisfied.

For More Information

If you have any questions about the proposed programs, the annual rates, or about the mail ballot

proceeding process, please contact Jennifer Terry, Management Analyst, Special Districts, a Division of the Financial and Management Services Department, Monday through Thursday from 7:30 a.m. to 6:00 p.m. at 951.413.3505 or via email at JenniferT@moval.org.

Completing Your Ballot

Property owner may submit the enclosed ballots to the City Clerk in support of or opposition to the proposed programs and annual charges. Please follow the instructions listed below to complete and return your ballots. Procedures for the completion, return, and tabulation of the ballots are also on file in the City Clerk's office.

1. Mark the two enclosed ballots in support for or opposition to the proposed programs and annual charges **by placing a mark in the corresponding box.**
2. Sign your name on the ballots. Ballots received without signature(s) will be considered invalid *and will not be counted.*
3. Mail or personally deliver your ballots in a sealed envelope to the City Clerk's office, 14177 Frederick Street, Moreno Valley, California, 92553. For your convenience, postage-paid envelopes have been included for return of the ballots.
4. Ballot(s) must be **received** by the City Clerk prior to the close of the Public Hearing to be held on **Tuesday, February 25, 2014**, at the Moreno Valley City Hall Council Chamber. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called. Ballots received after the close of the Public Hearing cannot be legally counted.

Ballot Marks

Appropriate ballot markings include any one of the following for either the YES/Approved or NO/Not Approved blank box:



A check mark substantially inside a box;



An X mark substantially inside a box;



A dot or oval mark substantially inside a box;



A completely shaded or filled mark substantially inside a box;



A line, single or dashed, or combination of lines, through the box area. Lines may be any one of the following marks: horizontal, vertical, or diagonal. The mark may either run from side to side or corner to corner. All valid lines must be substantially within the box area and not marking any part of another blank box on the ballot;



A circle around the box and/or associated clause; or



A square or rectangle around the box and/or associated clause.

Balloting marks shall not extend past one box area into any portion of another nor surround the perimeter or any portion of more than one box area. Markings that extend past one box area into

any portion of another or surround the perimeter or any portion of more than one box area shall be considered invalid and not counted.

Ballot Mark Revisions (Changes): An error or desire to revise (change) a selection made on the ballot may be completed and returned any time **prior** to the conclusion of public testimony at the Public Hearing. **The revision must be initialed by the record owner(s) of property. Initials must be clearly printed and placed at the right top corner of the revised selection.**

**OFFICIAL MAIL BALLOT for
Assessor's Parcel Number (APN) 482-190-019
National Pollutant Discharge Elimination System (NPDES)
Maximum Commercial/Industrial Regulatory Rate**

YES* — as property owner of APN 482-190-019, **I approve** the NPDES Maximum Commercial/Industrial Regulatory Rate and services. For fiscal year (FY) 2013/14, the NPDES Maximum Commercial/Industrial Regulatory Rate is \$223 per parcel. Upon approval of the maximum regulatory rate, the annual levy amount shall be placed on the Riverside County property tax bill or as a monthly charge on a utility bill. Beginning FY 2014/15, the maximum regulatory rate shall be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. The City will annually inspect site design, source and treatment control Best Management Practices, verify monitoring and maintenance records for those on-site facilities, and perform annual inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

NO** — as property owner of APN 482-190-019, **I do not approve** the NPDES Maximum Commercial/Industrial Regulatory Rate and services. I understand that not approving the NPDES Maximum Commercial/Industrial Regulatory Rate to fund federally mandated NPDES Permit requirements will not satisfy the Conditions of Approval. The NPDES maximum commercial/industrial regulatory rate shall not be levied on the Riverside County property tax bill.

Assessor's Parcel Number	YES*	NO**	NPDES Maximum Commercial/Industrial Regulatory Rate
482-190-019 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	\$223

This ballot must be received by the City Clerk of the City of Moreno Valley prior to the close of the Public Hearing to be held on February 25, 2014, at the Moreno Valley City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, California. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called.

PROPERTY OWNER SIGNATURE DATE

Remember to sign and date the ballot, making sure to mark the appropriate voting box, and return it in the enclosed envelope. Your returned ballot must be received by the City Clerk's office prior to the close of the Public Hearing, which is scheduled for 6:00 pm on February 25, 2014.

**OFFICIAL MAIL BALLOT for
Assessor's Parcel Number (APN) 482-190-019
Moreno Valley Community Services District (CSD) Zone M
(Commercial, Industrial, and Multifamily Improved Median Maintenance)**

YES* — as the property owner of APN 482-190-019, **I approve** the annual CSD Zone M charge for FY 2013/14 for the Alessandro Blvd. median of \$179.16. Beginning FY 2014/15, the annual CSD Zone M charge shall be subject to an annual adjustment based on the percentage change calculated for the previous calendar year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. Upon approval, the CSD Zone M charge shall be placed on the Riverside County property tax bill. The CSD Zone M charge shall be proportionally adjusted based on parcel acreage if said APN is subdivided.

NO** — as the property owner of APN 482-190-019, **I do not approve** the CSD Zone M annual parcel charge. I understand that not incorporating said APN into the CSD Zone M program will not satisfy the Conditions of Approval. The CSD Zone M charge shall not be levied on the Riverside County property tax bill.

Assessor's Parcel Number	YES*	NO**	CSD Zone M Annual Charge
482-190-019 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	\$179.16

This ballot must be received by the Secretary of the Board of the CSD (City Clerk) prior to the close of the Public Hearing to be held on February 25, 2014, at the Moreno Valley City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, California. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called.

PROPERTY OWNER SIGNATURE DATE

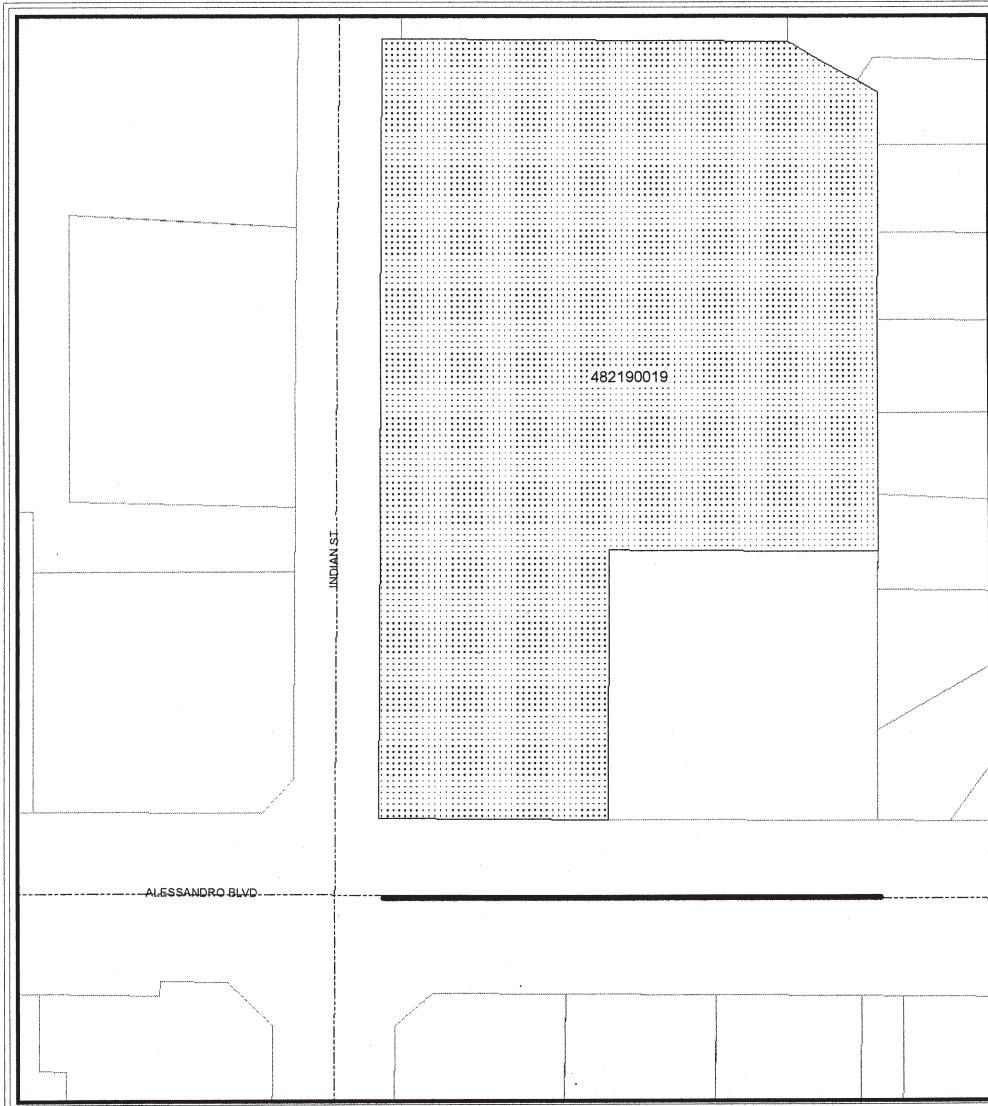
Remember to sign and date the ballot, making sure to mark the appropriate voting box, and return it in the enclosed envelope. Your returned ballot must be received by the City Clerk's office prior to the close of the Public Hearing, which is scheduled for 6:00 pm on February 25, 2014.

COMMON INTEREST, COMMERCIAL, INDUSTRIAL AND QUASI-PUBLIC USE NPDES RATE SCHEDULE
Adopted by the City Council on January 10, 2006







LEVEL 1			LEVEL II		
NPDES Administration			Site Design, Source Control and Treatment Control BMPs Monitoring and Maintenance		
<i>(Not covered by CSA 152)</i>					
<p>Costs associated with personnel, administration and management of the storm water management program. Administrative tasks include development and filing of various stormwater reports and data collection and management.</p> <p>Level I is levied on all parcels conditioned for the NPDES Rate Schedule.</p>			<p>Costs associated with stormwater and non-stormwater runoff monitoring, inspection of the project's site design, source control and treatment control BMPs; evaluation of site stormwater compliance activities, review of site-specific technical reports and treatment control BMP maintenance records.</p>		
<p>Fiscal Year (FY) 2005/2006 - Base Year Calculation, subject to an annual inflation factor based on the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics</p>					
PROPOSED PARCEL RATE	Per Month	Per Year	PROPOSED PARCEL RATE	Per Month	Per Year
	\$2.67	\$32.00		\$12.58	\$151.00

Inflation Factor Adjustments

- FY 2006/2007 - 4.5% = (\$33.00 & \$158.00)
- FY 2007/2008 - 3.1% = (\$34.00 & \$163.00)
- FY 2008/2009 - 4.2% = (\$35.00 & \$170.00)
- FY 2009/2010 - no change = (\$35.00 & \$170.00)
- FY 2010/2011 - no change = (\$35.00 & \$170.00)
- FY 2011/2012 - 3.8% = (\$36.00 & \$176.00)
- FY 2012/2013 - 2.7% = (\$37.00 & \$181.00)
- FY 2013/2014 - 2.0% = (\$38.00 & \$185.00) rounded to the nearest dollar

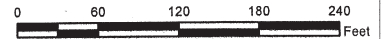


PA13-0009 for the Alessandro Blvd Kroger Fueling Station

- APN**
-  482190019
 -  Roads
 -  Parcels
 -  City Boundary
 -  Median
 -  Landscaped Areas

Map reflects all changes indicated
on Riverside County Assessor Maps
as of January 6, 2014.

N



G:\VVP\SDA\Taylor PA13-0009.mxd

The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Data and information on this map is subject to update and modification. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map. This map is not to be recycled or resold.



This page intentionally left blank.

TEL: 951.413.3480
 FAX: 951.413.3498
 WWW.MOVAL.ORG



14331 FREDERICK STREET, SUITE 2
 P. O. BOX 88005
 MORENO VALLEY, CA 92552-0805

Moreno Knox
 c/o Sares Regis Group
 Attention: Janine Padia
 18802 Bardeen Ave
 Irvine, CA 92612

January 9, 2014

NOTICE TO PROPERTY OWNER-MAIL BALLOT PROCEEDING FOR APNs 316-210-071, 316-210-073, 316-210-075, AND 316-210-079 FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAXIMUM COMMERCIAL/INDUSTRIAL REGULATORY RATE AND FOR COMMUNITY SERVICES DISTRICT (CSD) ZONE M (COMMERCIAL, INDUSTRIAL, AND MULTIFAMILY IMPROVED MEDIAN MAINTENANCE)

******* OFFICIAL BALLOTS ENCLOSED *******

Introduction

In November of 1996, California voters passed Proposition 218 ("The Right to Vote on Taxes Act"). As a result, any new or proposed increase in a property-related charge requires approval of the charge by the property owner of record. In compliance with Proposition 218 legislation, the City of Moreno Valley Special Districts Division is conducting a mail ballot proceeding to provide the owner of Assessor's Parcel Numbers (APNs) 316-210-071, 316-210-073, 316-210-075, and 316-210-079 the opportunity to express support for or opposition to the approval of the NPDES regulatory rate and services, and for inclusion into and approval of the annual charge for the CSD Zone M program.

Background

NPDES Maximum Commercial/Industrial Regulatory Rate

The City shall provide the services necessary to meet mandates of the Federal Clean Water Act. The current NPDES Permit, as administered by the State, regulates the volume and amount of pollutants in stormwater runoff from all development types. NPDES Maximum Commercial/Industrial Regulatory Rate provides financial support to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

CSD Zone M Charge

The CSD was formed simultaneously with City incorporation and established Zones to allocate the costs of special benefit services to those parcels designated to receive selective programs. The CSD Zone M program provides ongoing maintenance to improved medians adjacent to commercial, industrial, and multifamily developments in designated areas of the City. Commercial, industrial, and multifamily developments along designated arterial streets are conditioned to participate in the improved median maintenance program in compliance with the Citywide Arterial Median Maintenance Policy approved by the CSD Board in March 2003 and revised in January 2006.

Services Provided

NPDES Maximum Commercial/Industrial Regulatory Rate

In compliance with the Federal Clean Water Act, the City of Moreno Valley shall annually inspect site design, source and treatment control Best Management Practices, verify monitoring and maintenance records for those on-site facilities, and perform annual inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

CSD Zone M Charge

Special Districts Division staff manages private landscape maintenance firms to ensure that landscape preservation activities are completed on a regular schedule. The CSD Zone M annual charge was established to cover administration and service costs for the landscape maintenance. Services include, but are not limited to: trimming, pruning, fertilizing, replacing plant material(s) as necessary, litter removal, weed control, maintenance of the irrigation system, payment of water and electric utility charges, staff support, and other items necessary for the satisfactory maintenance of the landscaped medians.

How is the Amount of the Charge Determined?

NPDES Maximum Commercial/Industrial Regulatory Rate

Each fiscal year (FY), the City of Moreno Valley shall determine the type of services necessary to comply with NPDES Permit requirements and levy the rate applicable for that service. The rate levied shall not exceed the rate previously approved by the property owner.

CSD Zone M Charge

The annual CSD Zone M charge includes maintenance and administration costs. The CSD Zone M charges shall be proportionally adjusted if the previously mentioned APNs are subdivided in the future. If parcels are merged, then the annual charges for those parcels shall be combined. The charge levied shall not exceed the charge previously approved by the property owner.

Proposed Charge

NPDES Maximum Commercial/Industrial Regulatory Rate

For FY 2013/14, the NPDES maximum commercial/industrial regulatory rate is \$223.00 per parcel. The total amount of the NPDES rates levied for FY 2013/14 for the program as a whole was \$419,571.00.

CSD Zone M Charge

The combined CSD Zone M annual charge for FY 2013/14 for the existing Perris Blvd. median is \$2,730.47 and is spread to each APN based on the parcel's acreage. The total amount of the CSD Zone M charges levied for FY 2013/14 for the program as a whole was \$165,549.72.

Annual Adjustment

NPDES Maximum Commercial/Industrial Regulatory Rate

Beginning in FY 2014/15, the NPDES Maximum Commercial/Industrial Regulatory Rate shall be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

CSD Zone M Charge

Beginning in FY 2014/15, the CSD Zone M charge shall be subject to an annual adjustment based on the percentage change calculated for the previous calendar year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

Duration of the Charge

Upon approval of the NPDES Maximum Commercial/Industrial Regulatory Rate, the annual levy amount will be assessed to APNs 316-210-071, 316-210-073, 316-210-075, and 316-210-079 (and any division thereof) and shall be placed on the Riverside County property tax bill or as a monthly charge on a utility bill. Upon approval, the CSD Zone M charge shall be placed on the Riverside County property tax bill. The NPDES Maximum Commercial/Industrial regulatory rate and the CSD Zone M charge will be levied each following year at the proposed rate, which may include an annual inflation adjustment.

Public Hearing

To provide information concerning this mail ballot proceeding the City/CSD has scheduled one (1) Public Meeting and one (1) Public Hearing, which will be held at the **Moreno Valley City Hall Council Chamber located at 14177 Frederick Street, Moreno Valley.**

<u>Public Meeting</u>	<u>Public Hearing</u>
Tuesday, February 11, 2014 6:00 P.M. (Or As Soon Thereafter As The Matter May Be Called)	Tuesday, February 25, 2014 6:00 P.M. (Or As Soon Thereafter As The Matter May Be Called)

Tabulation of all returned ballots will commence after the close of the Public Hearing. All ballots received shall be tabulated under the direction of the City Clerk/Secretary of the CSD Board of Directors in compliance with the current Policy For Conducting Mail Ballot Proceedings Policy #1.12.

Effect if Inclusion into and Approval of the Charges are Approved

Approval of the NPDES Maximum Commercial/Industrial maximum regulatory rate will be confirmed for each parcel if the ballot is marked in favor of the NPDES rate. Inclusion into the CSD Zone M program and approval of the annual charges will be confirmed if a simple majority of the weighted value of APNs are marked in favor of the annual charges.

Effect if Inclusion into and Approval of the Charges are Not Approved

NPDES Maximum Commercial/Industrial Regulatory Rate

Not approving the NPDES commercial/industrial regulatory rate to meet federally mandated NPDES Permit requirements will not satisfy the Conditions of Approval. If the returned valid ballot is marked opposing the NPDES rate, then the rate will not be levied on the property tax bill.

CSD Zone M Charge

If the ballot is marked in opposition to the CSD Zone M annual charge, then the annual charge will not be levied on the property tax bill and the Conditions of Approval will not be satisfied.

For More Information

If you have any questions about the proposed programs, the annual rates, or about the mail ballot proceeding process, please contact Jennifer Terry, Management Analyst, Special Districts, a Division of the Financial and Management Services Department, Monday through Thursday from 7:30 a.m. to 6:00 p.m. at 951.413.3505 or via email at JenniferT@moval.org.

Completing Your Ballot

Property owner may submit the enclosed ballots to the City Clerk in support of or opposition to the proposed programs and annual charges. Please follow the instructions listed below to complete and return your ballots. Procedures for the completion, return, and tabulation of the ballots are also on file in the City Clerk's office.

1. Mark the two enclosed ballots in support for or opposition to the proposed programs and annual charges **by placing a mark in the corresponding box.**
2. Sign your name on the ballots. Ballots received without signature(s) will be considered invalid *and will not be counted.*
3. Mail or personally deliver your ballots in a sealed envelope to the City Clerk's office, 14177 Frederick Street, Moreno Valley, California, 92553. For your convenience, postage-paid envelopes have been included for return of the ballots.
4. Ballot(s) must be **received** by the City Clerk prior to the close of the Public Hearing to be held on **Tuesday, February 25, 2014**, at the Moreno Valley City Hall Council Chamber. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called. Ballots received after the close of the Public Hearing cannot be legally counted.

Ballot Marks

Appropriate ballot markings include any one of the following for either the YES/Approved or NO/Not Approved blank box:



A check mark substantially inside a box;



An X mark substantially inside a box;



A dot or oval mark substantially inside a box;



A completely shaded or filled mark substantially inside a box;



A line, single or dashed, or combination of lines, through the box area. Lines may be any one of the following marks: horizontal, vertical, or diagonal. The mark may either run from side to side or corner to corner. All valid lines must be substantially within the box area and not marking any part of another blank box on the ballot;



A circle around the box and/or associated clause; or



A square or rectangle around the box and/or associated clause.

Balloting marks shall not extend past one box area into any portion of another nor surround the perimeter or any portion of more than one box area. Markings that extend past one box area into any portion of another or surround the perimeter or any portion of more than one box area shall be considered invalid and not counted.

Ballot Mark Revisions (Changes): An error or desire to revise (change) a selection made on the ballot may be completed and returned any time **prior** to the conclusion of public testimony at the Public Hearing. **The revision must be initialed by the record owner(s) of property. Initials must be clearly printed and placed at the right top corner of the revised selection.**

**OFFICIAL MAIL BALLOT for
Assessor's Parcel Numbers (APNs)
316-210-071, 316-210-073, 316-210-075, and 316-210-079
Moreno Valley Community Services District (CSD) Zone M
(Commercial, Industrial, and Multifamily Improved Median Maintenance)**

YES* — as the property owner of APNs 316-210-071, 316-210-073, 316-210-075, and 316-210-079, **I approve** the combined CSD Zone M annual charge for FY 2013/14 for the Perris Blvd. median of \$2,730.47. Beginning FY 2014/15, the annual CSD Zone M charges shall be subject to an annual adjustment based on the percentage change calculated for the previous calendar year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. Upon approval, the CSD Zone M charges shall be placed on the Riverside County property tax bill. The CSD Zone M charges shall be proportionally adjusted if said APNs are subdivided. If parcels are merged, then the annual charges for those parcels will be combined.

NO** — as the property owner of APNs 316-210-071, 316-210-073, 316-210-075, and 316-210-079, **I do not approve** the CSD Zone M annual parcel charges. I understand that not incorporating said APNs into the CSD Zone M program will not satisfy the Conditions of Approval. The CSD Zone M charges shall not be levied on the Riverside County property tax bill.

Assessor Parcel Number	YES*	NO**	CSD Zone M Annual Charge***
316-210-071 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	\$661.64
316-210-073 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	668.16
316-210-075 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	697.27
316-210-079 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	703.40

***The weighted value for each APN is equal to its proposed annual charge. The combined proposed Zone M charge for this ballot is \$2,730.47.

This ballot must be received by the Secretary of the Board of the CSD (City Clerk) prior to the close of the Public Hearing to be held on February 25, 2014, at the Moreno Valley City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, California. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called.

PROPERTY OWNER SIGNATURE DATE

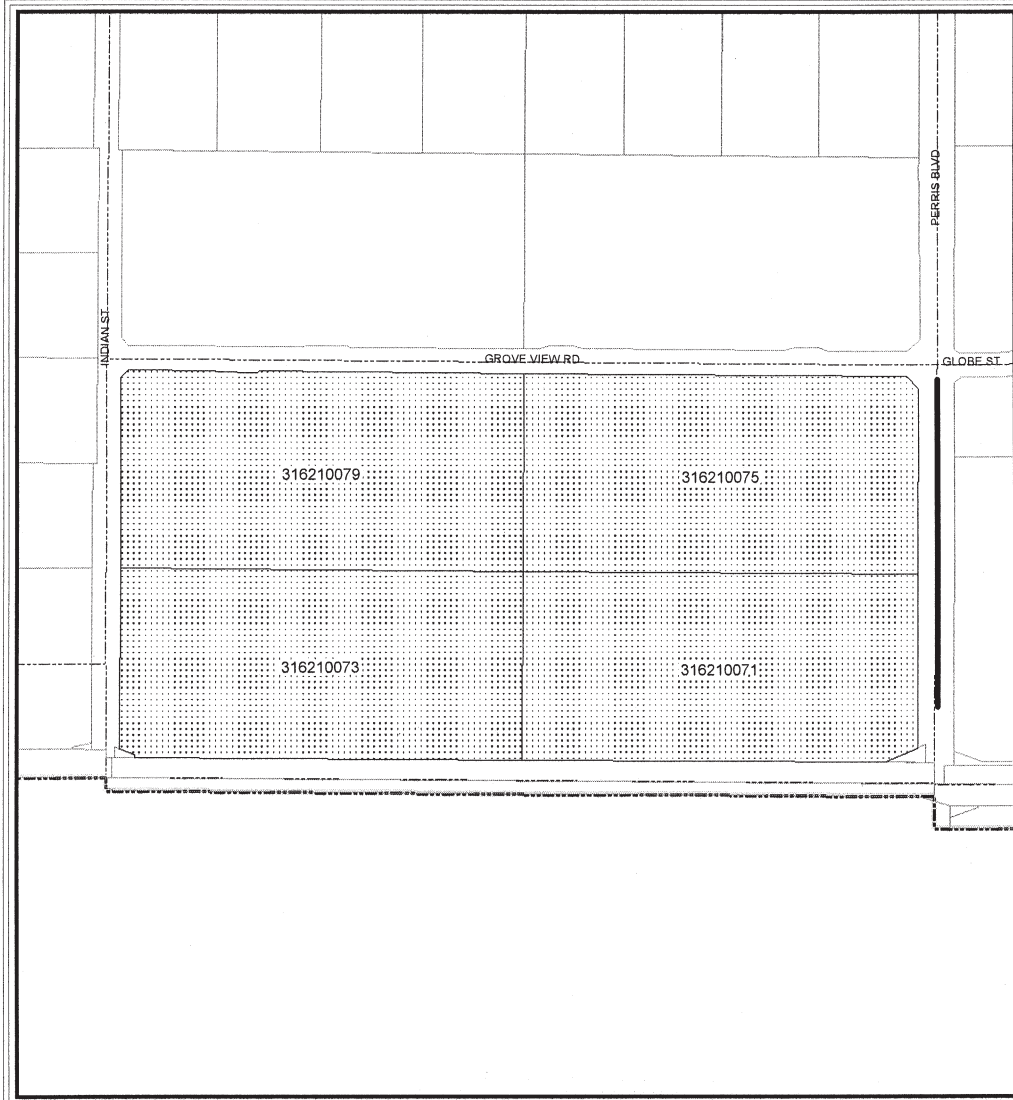
Remember to sign and date the ballot, making sure to mark the appropriate voting box for each APN, and return it in the enclosed envelope. Your returned ballot must be received by the City Clerk's office prior to the close of the Public Hearing, which is scheduled for 6:00 pm on February 25, 2014.

COMMON INTEREST, COMMERCIAL, INDUSTRIAL AND QUASI-PUBLIC USE NPDES RATE SCHEDULE
 Adopted by the City Council on January 10, 2006

LEVEL 1			LEVEL II		
NPDES Administration			Site Design, Source Control and Treatment Control BMPs Monitoring and Maintenance		
<i>(Not covered by CSA 152)</i>					
Costs associated with personnel, administration and management of the storm water management program. Administrative tasks include development and filing of various stormwater reports and data collection and management. Level I is levied on all parcels conditioned for the NPDES Rate Schedule.			Costs associated with stormwater and non-stormwater runoff monitoring, inspection of the project's site design, source control and treatment control BMPs; evaluation of site stormwater compliance activities, review of site-specific technical reports and treatment control BMP maintenance records.		
Fiscal Year (FY) 2005/2006 - Base Year Calculation, subject to an annual inflation factor based on the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics					
PROPOSED PARCEL RATE	Per Month	Per Year	PROPOSED PARCEL RATE	Per Month	Per Year
	\$2.67	\$32.00		\$12.58	\$151.00





Inflation Factor Adjustments






- FY 2006/2007 - 4.5% = (\$33.00 & \$158.00)
- FY 2007/2008 - 3.1% = (\$34.00 & \$163.00)
- FY 2008/2009 - 4.2% = (\$35.00 & \$170.00)
- FY 2009/2010 - no change = (\$35.00 & \$170.00)
- FY 2010/2011 - no change = (\$35.00 & \$170.00)
- FY 2011/2012 - 3.8% = (\$36.00 & \$176.00)
- FY 2012/2013 - 2.7% = (\$37.00 & \$181.00)
- FY 2013/2014 - 2.0% = (\$38.00 & \$185.00) rounded to the nearest dollar



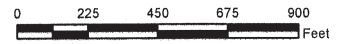
**Sares Regis
PA09-0004**

APN

-  316210071
-  316210073
-  316210075
-  316210079

-  Roads
-  Parcels
-  City Boundary
-  Median
-  Landscaped Areas

Map reflects all changes indicated on Riverside County Assessor Maps as of January 6, 2014.

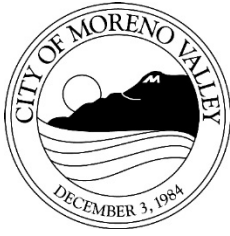


G:\VPI\SDA\PA09-0004 Sares Regis.mxd

The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Data and information on this map is subject to update and modification. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map. This map is not to be recopied or resold.



This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council Acting in its Capacity as the President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)

FROM: Richard Teichert, Chief Financial Officer

AGENDA DATE: February 25, 2014

TITLE: PUBLIC HEARING REGARDING THE MAIL BALLOT PROCEEDINGS FOR ASSESSOR'S PARCEL NUMBERS 482-190-019; AND 316-210-071, -073, -075, AND -079. BALLOTING FOR THE CSD ZONE M ANNUAL PARCEL CHARGE.

RECOMMENDED ACTION

Recommendations: That the CSD:

1. Conduct the Public Hearing and accept public testimony regarding the mail ballot proceedings for Assessor's Parcel Numbers (APNs) 482-190-019; and 316-210-071, -073, -075, and -079 for inclusion into and approval of the annual charges for the CSD Zone M (Commercial, Industrial, and Multifamily Improved Median Maintenance) program.
2. Direct the Secretary of the CSD Board (City Clerk) to tabulate the CSD Zone M ballots for APNs 482-190-019; and 316-210-071, -073, -075, and -079.
3. Verify and accept the results of the mail ballot proceedings as identified on the Official Tally Sheet.
4. Receive and file with the City Clerk's office the accepted Official Tally Sheet.
5. If approved, authorize and impose the CSD Zone M (Commercial, Industrial, and Multifamily Improved Median Maintenance) annual parcel charge to APNs 482-190-019; and 316-210-071, -073, -075, and -079.

SUMMARY

The action before the CSD Board is to conduct the Public Hearing to accept public testimony, tabulate the returned ballots, verify, and accept the results of the mail ballot proceedings for APNs 482-190-019; and 316-210-071, -073, -075, and -079.

DISCUSSION

The CSD was formed simultaneously with City incorporation in 1984. The designation of zones within the CSD was established to allocate the costs of special services to those parcels receiving the benefit. The City's Arterial Median Maintenance Policy, adopted by the CSD February 2003 and subsequently amended January 2006, requires that certain commercial, industrial, and multifamily developments be conditioned to fund the ongoing maintenance of arterial medians.

Special Districts, a division of the Financial and Management Services Department, manages private landscape maintenance firms to ensure that landscape preservation activities within specially designated districts or zones are completed on a regular schedule. Landscape maintenance includes, but is not limited to mowing, trimming, pruning, fertilizing, replacing plant material(s) as necessary, litter removal, weed control, maintenance of the irrigation system, payment of water and electric utility charges, and other items necessary for the satisfactory maintenance of the landscaped medians. The CSD Zone M annual parcel charge, paid by adjacent new developments, provides funding for the maintenance of improved medians within the CSD.

J. Taylor, property owner of APN 482-190-019; and Moreno Knox, property owner of APNs 316-210-071, -073, -075, and -079 (collectively the "Property Owners") have chosen to satisfy their Conditions of Approval to help support the CSD Zone M program by approving the annual parcel charge to be collected on the Riverside County property tax bill. Mail Ballot proceedings are being conducted in compliance with Proposition 218, which requires that any new or proposed increase in property-related assessments, fees, or charges be submitted to Property Owners for approval. The Property Owners are given two opportunities to address the legislative body. These two opportunities are the Public Meeting which was held on February 11, 2014 and the Public Hearing on February 25, 2014, when the results of the ballot proceeding will be announced.

Approval of the CSD Zone M annual parcel charge fulfills their Conditions of Approval. Provided the mail ballots are approved, the City will be authorized to annually levy the CSD Zone M annual parcel charge on the Riverside County property tax bill.

ALTERNATIVES

1. **Conduct the Public Hearing**, tabulate the ballots, verify, and accept the results of the mail ballot proceedings as identified on the Official Tally Sheet, receive and file with the City Clerk's office the accepted Official Tally Sheet, and if approved, authorize and impose the CSD Zone M annual parcel charges to APNs 482-190-

019; and 316-210-071, -073, -075, and -079. *This alternative will fulfill the 45-day noticing period and Public Hearing requirements as mandated by Proposition 218.*

2. **Open the Public Hearing and continue** the hearing to a future regular City Council meeting. *This alternative will fulfill the 45-day noticing period and Public Hearing requirements as mandated by Proposition 218. This alternative will not incur any additional costs for re-noticing.*
3. **Do not conduct the Public Hearing**, tabulate the ballots, verify, or accept the results of the mail ballot proceedings. *This alternative prohibits the property owner from satisfying their Conditions of Approval utilizing this funding mechanism.*
4. **Do not conduct the Public Hearing** at this time but reschedule it to a date certain, at a regular City Council meeting. *This alternative would require the 45-day noticing period to start over and cause additional costs to be incurred for re-noticing.*

FISCAL IMPACT

For fiscal year (FY) 2013/14, the estimated CSD Zone M annual parcel charges for each APN are as follows:

APN	CSD Zone M Annual Charge
482-190-019	\$179.16
316-210-071	661.64
316-210-073	668.16
316-210-075	697.27
316-210-079	703.40

The CSD Zone M annual parcel charge was estimated based on each development's front linear footage to the adjacent median. For developments that have multiple parcels, the total obligation for the development was proportionately allocated based on acreage. The CSD Zone M charge will be proportionally adjusted if said APNs are subdivided and if parcels are merged, then the annual charges for those parcels will be combined. **Funds collected for the CSD Zone M program are restricted for use for the maintenance and administration of the improved medians within the CSD Zone M program.**

CITY COUNCIL GOALS

Community Image, Neighborhood Pride, and Cleanliness

The Zone M program allows the CSD an opportunity to maintain the appearance of developed areas within the City.

Revenue Diversification and Preservation

The CSD Zone M annual charge and the NPDES maximum commercial/industrial regulatory rate provide funding for program costs, which include maintenance and administration.

NOTIFICATION

The Property Owners were given the required 45-day noticing period to review the ballot documents. The documents included a notice to the property owner, map of the project area, Zone M ballot, instructions for marking and returning the ballot, and a postage-paid envelope for returning the ballot to the Secretary of the CSD. (See Attachments 1 and 2.)

Newspaper advertising for the February 11, 2014, Public Meeting and February 25, 2014, Public Hearing was published in The Press-Enterprise on January 27, 2014. Additionally, the Public Hearing notification was published on February 6 and again on February 13, 2014.

ATTACHMENTS

- Attachment 1: Mail Ballot Packet for J. Taylor
- Attachment 2: Mail Ballot Packet for Moreno Knox

Prepared By:
Jennifer Terry
Management Analyst

Department Head Approval:
Richard Teichert
Chief Financial Officer

Concurred By:
Candace E. Cassel
Special Districts Division Manager

TEL: 951.413.3480
 FAX: 951.413.3498
 WWW.MOVAL.ORG



14331 FREDERICK STREET, SUITE 2
 P. O. BOX 88005
 MORENO VALLEY, CA 92552-0805

John C Taylor
 Re: Kroger Fueling Station
 P.O. Box 15271
 Long Beach, CA 90815

January 9, 2014

NOTICE TO PROPERTY OWNER-MAIL BALLOT PROCEEDING FOR APN 482-190-019 FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAXIMUM COMMERCIAL/INDUSTRIAL REGULATORY RATE AND FOR COMMUNITY SERVICES DISTRICT (CSD) ZONE M (COMMERCIAL, INDUSTRIAL, AND MULTIFAMILY IMPROVED MEDIAN MAINTENANCE)

******* OFFICIAL BALLOTS ENCLOSED *******

Introduction

In November of 1996, California voters passed Proposition 218 ("The Right to Vote on Taxes Act"). As a result, any new or proposed increase in a property-related charge requires approval of the charge by the property owner of record. In compliance with Proposition 218 legislation, the City of Moreno Valley Special Districts Division is conducting a mail ballot proceeding to provide the owner of Assessor's Parcel Number (APN) 482-190-019 the opportunity to express support for or opposition to the approval of the NPDES regulatory rate and services, and for inclusion into and approval of the annual charge for the CSD Zone M program.

Background

NPDES Maximum Commercial/Industrial Regulatory Rate

The City shall provide the services necessary to meet mandates of the Federal Clean Water Act. The current NPDES Permit, as administered by the State, regulates the volume and amount of pollutants in stormwater runoff from all development types. NPDES Maximum Commercial/Industrial Regulatory Rate provides financial support to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

CSD Zone M Charge

The CSD was formed simultaneously with City incorporation and established Zones to allocate the costs of special benefit services to those parcels designated to receive selective programs. The CSD Zone M program provides ongoing maintenance to improved medians adjacent to commercial, industrial, and multifamily developments in designated areas of the City. Commercial, industrial, and multifamily developments along designated arterial streets are conditioned to participate in the improved median maintenance program in compliance with the Citywide Arterial Median Maintenance Policy approved by the CSD Board in March 2003 and revised in January 2006.

Services Provided

NPDES Maximum Commercial/Industrial Regulatory Rate

In compliance with the Federal Clean Water Act, the City of Moreno Valley shall annually inspect site design, source and treatment control Best Management Practices, verify monitoring and maintenance records for those on-site facilities, and perform annual inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

CSD Zone M Charge

Special Districts Division staff manages private landscape maintenance firms to ensure that landscape preservation activities are completed on a regular schedule. The CSD Zone M annual charge was established to cover administration and service costs for the landscape maintenance. Services include, but are not limited to: trimming, pruning, fertilizing, replacing plant material(s) as necessary, litter removal, weed control, maintenance of the irrigation system, payment of water and electric utility charges, staff support, and other items necessary for the satisfactory maintenance of the landscaped medians.

How is the Amount of the Charge Determined?

NPDES Maximum Commercial/Industrial Regulatory Rate

Each fiscal year (FY), the City of Moreno Valley shall determine the type of services necessary to comply with NPDES Permit requirements and levy the rate applicable for that service. The rate levied shall not exceed the rate previously approved by the property owner.

CSD Zone M Charge

The annual CSD Zone M charge includes maintenance and administration costs. The CSD Zone M charge shall be proportionally adjusted based on parcel acreage if the previously mentioned APN is subdivided in the future. The charge levied shall not exceed the charge previously approved by the property owner.

Proposed Charge

NPDES Maximum Commercial/Industrial Regulatory Rate

For FY 2013/14, the NPDES maximum commercial/industrial regulatory rate is \$223.00 per parcel. The total amount of the NPDES rates levied for FY 2013/14 for the program as a whole was \$419,571.00.

CSD Zone M Charge

The CSD Zone M annual charge for FY 2013/14 for the existing Alessandro Blvd. median is \$179.16. The total amount of the CSD Zone M charges levied for FY 2013/14 for the program as a whole was \$165,549.72.

Annual Adjustment

NPDES Maximum Commercial/Industrial Regulatory Rate

Beginning in FY 2014/15, the NPDES Maximum Commercial/Industrial Regulatory Rate shall be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

CSD Zone M Charge

Beginning in FY 2014/15, the CSD Zone M charge shall be subject to an annual adjustment based on the percentage change calculated for the previous calendar year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

Duration of the Charge

Upon approval of the NPDES Maximum Commercial/Industrial Regulatory Rate, the annual levy amount will be assessed to APN 482-190-019 (and any division thereof) and shall be placed on the Riverside County property tax bill or as a monthly charge on a utility bill. Upon approval, the CSD Zone M charge shall be placed on the Riverside County property tax bill. The NPDES Maximum Commercial/Industrial regulatory rate and the CSD Zone M charge will be levied each following year at the proposed rate, which may include an annual inflation adjustment.

Public Hearing

To provide information concerning this mail ballot proceeding the City/CSD has scheduled one (1) Public Meeting and one (1) Public Hearing, which will be held at the **Moreno Valley City Hall Council Chamber located at 14177 Frederick Street, Moreno Valley.**

<u>Public Meeting</u>	<u>Public Hearing</u>
Tuesday, February 11, 2014 6:00 P.M. (Or As Soon Thereafter As The Matter May Be Called)	Tuesday, February 25, 2014 6:00 P.M. (Or As Soon Thereafter As The Matter May Be Called)

Tabulation of all returned ballots will commence after the close of the Public Hearing. All ballots received shall be tabulated under the direction of the City Clerk/Secretary of the CSD Board of Directors in compliance with the current Policy For Conducting Mail Ballot Proceedings Policy #1.12.

Effect if Inclusion into and Approval of the Charges are Approved

Approval of the NPDES Maximum Commercial/Industrial maximum regulatory rate will be confirmed if the ballot is marked in favor of the NPDES rate. Inclusion into the CSD Zone M program and approval of the annual charge will be confirmed if the ballot is marked in favor of the annual charge.

Effect if Inclusion into and Approval of the Charges are Not Approved

NPDES Maximum Commercial/Industrial Regulatory Rate

Not approving the NPDES commercial/industrial regulatory rate to meet federally mandated NPDES Permit requirements will not satisfy the Conditions of Approval. If the returned valid ballot is marked opposing the NPDES rate, then the rate will not be levied on the property tax bill.

CSD Zone M Charge

If the ballot is marked in opposition to the CSD Zone M annual charge, then the annual charge will not be levied on the property tax bill and the Conditions of Approval will not be satisfied.

For More Information

If you have any questions about the proposed programs, the annual rates, or about the mail ballot

proceeding process, please contact Jennifer Terry, Management Analyst, Special Districts, a Division of the Financial and Management Services Department, Monday through Thursday from 7:30 a.m. to 6:00 p.m. at 951.413.3505 or via email at JenniferT@moval.org.

Completing Your Ballot

Property owner may submit the enclosed ballots to the City Clerk in support of or opposition to the proposed programs and annual charges. Please follow the instructions listed below to complete and return your ballots. Procedures for the completion, return, and tabulation of the ballots are also on file in the City Clerk's office.

1. Mark the two enclosed ballots in support for or opposition to the proposed programs and annual charges **by placing a mark in the corresponding box.**
2. Sign your name on the ballots. Ballots received without signature(s) will be considered invalid *and will not be counted.*
3. Mail or personally deliver your ballots in a sealed envelope to the City Clerk's office, 14177 Frederick Street, Moreno Valley, California, 92553. For your convenience, postage-paid envelopes have been included for return of the ballots.
4. Ballot(s) must be **received** by the City Clerk prior to the close of the Public Hearing to be held on **Tuesday, February 25, 2014**, at the Moreno Valley City Hall Council Chamber. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called. Ballots received after the close of the Public Hearing cannot be legally counted.

Ballot Marks

Appropriate ballot markings include any one of the following for either the YES/Approved or NO/Not Approved blank box:



A check mark substantially inside a box;



An X mark substantially inside a box;



A dot or oval mark substantially inside a box;



A completely shaded or filled mark substantially inside a box;



A line, single or dashed, or combination of lines, through the box area. Lines may be any one of the following marks: horizontal, vertical, or diagonal. The mark may either run from side to side or corner to corner. All valid lines must be substantially within the box area and not marking any part of another blank box on the ballot;



A circle around the box and/or associated clause; or



A square or rectangle around the box and/or associated clause.

Balloting marks shall not extend past one box area into any portion of another nor surround the perimeter or any portion of more than one box area. Markings that extend past one box area into

any portion of another or surround the perimeter or any portion of more than one box area shall be considered invalid and not counted.

Ballot Mark Revisions (Changes): An error or desire to revise (change) a selection made on the ballot may be completed and returned any time **prior** to the conclusion of public testimony at the Public Hearing. **The revision must be initialed by the record owner(s) of property. Initials must be clearly printed and placed at the right top corner of the revised selection.**

**OFFICIAL MAIL BALLOT for
Assessor's Parcel Number (APN) 482-190-019
National Pollutant Discharge Elimination System (NPDES)
Maximum Commercial/Industrial Regulatory Rate**

YES* — as property owner of APN 482-190-019, **I approve** the NPDES Maximum Commercial/Industrial Regulatory Rate and services. For fiscal year (FY) 2013/14, the NPDES Maximum Commercial/Industrial Regulatory Rate is \$223 per parcel. Upon approval of the maximum regulatory rate, the annual levy amount shall be placed on the Riverside County property tax bill or as a monthly charge on a utility bill. Beginning FY 2014/15, the maximum regulatory rate shall be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. The City will annually inspect site design, source and treatment control Best Management Practices, verify monitoring and maintenance records for those on-site facilities, and perform annual inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

NO** — as property owner of APN 482-190-019, **I do not approve** the NPDES Maximum Commercial/Industrial Regulatory Rate and services. I understand that not approving the NPDES Maximum Commercial/Industrial Regulatory Rate to fund federally mandated NPDES Permit requirements will not satisfy the Conditions of Approval. The NPDES maximum commercial/industrial regulatory rate shall not be levied on the Riverside County property tax bill.

Assessor's Parcel Number	YES*	NO**	NPDES Maximum Commercial/Industrial Regulatory Rate
482-190-019 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	\$223

This ballot must be received by the City Clerk of the City of Moreno Valley prior to the close of the Public Hearing to be held on February 25, 2014, at the Moreno Valley City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, California. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called.

PROPERTY OWNER SIGNATURE DATE

Remember to sign and date the ballot, making sure to mark the appropriate voting box, and return it in the enclosed envelope. Your returned ballot must be received by the City Clerk's office prior to the close of the Public Hearing, which is scheduled for 6:00 pm on February 25, 2014.

**OFFICIAL MAIL BALLOT for
 Assessor's Parcel Number (APN) 482-190-019
 Moreno Valley Community Services District (CSD) Zone M
 (Commercial, Industrial, and Multifamily Improved Median Maintenance)**

YES* — as the property owner of APN 482-190-019, **I approve** the annual CSD Zone M charge for FY 2013/14 for the Alessandro Blvd. median of \$179.16. Beginning FY 2014/15, the annual CSD Zone M charge shall be subject to an annual adjustment based on the percentage change calculated for the previous calendar year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. Upon approval, the CSD Zone M charge shall be placed on the Riverside County property tax bill. The CSD Zone M charge shall be proportionally adjusted based on parcel acreage if said APN is subdivided.

NO** — as the property owner of APN 482-190-019, **I do not approve** the CSD Zone M annual parcel charge. I understand that not incorporating said APN into the CSD Zone M program will not satisfy the Conditions of Approval. The CSD Zone M charge shall not be levied on the Riverside County property tax bill.

Assessor's Parcel Number	YES*	NO**	CSD Zone M Annual Charge
482-190-019 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	\$179.16

This ballot must be received by the Secretary of the Board of the CSD (City Clerk) prior to the close of the Public Hearing to be held on February 25, 2014, at the Moreno Valley City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, California. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called.

 PROPERTY OWNER SIGNATURE DATE

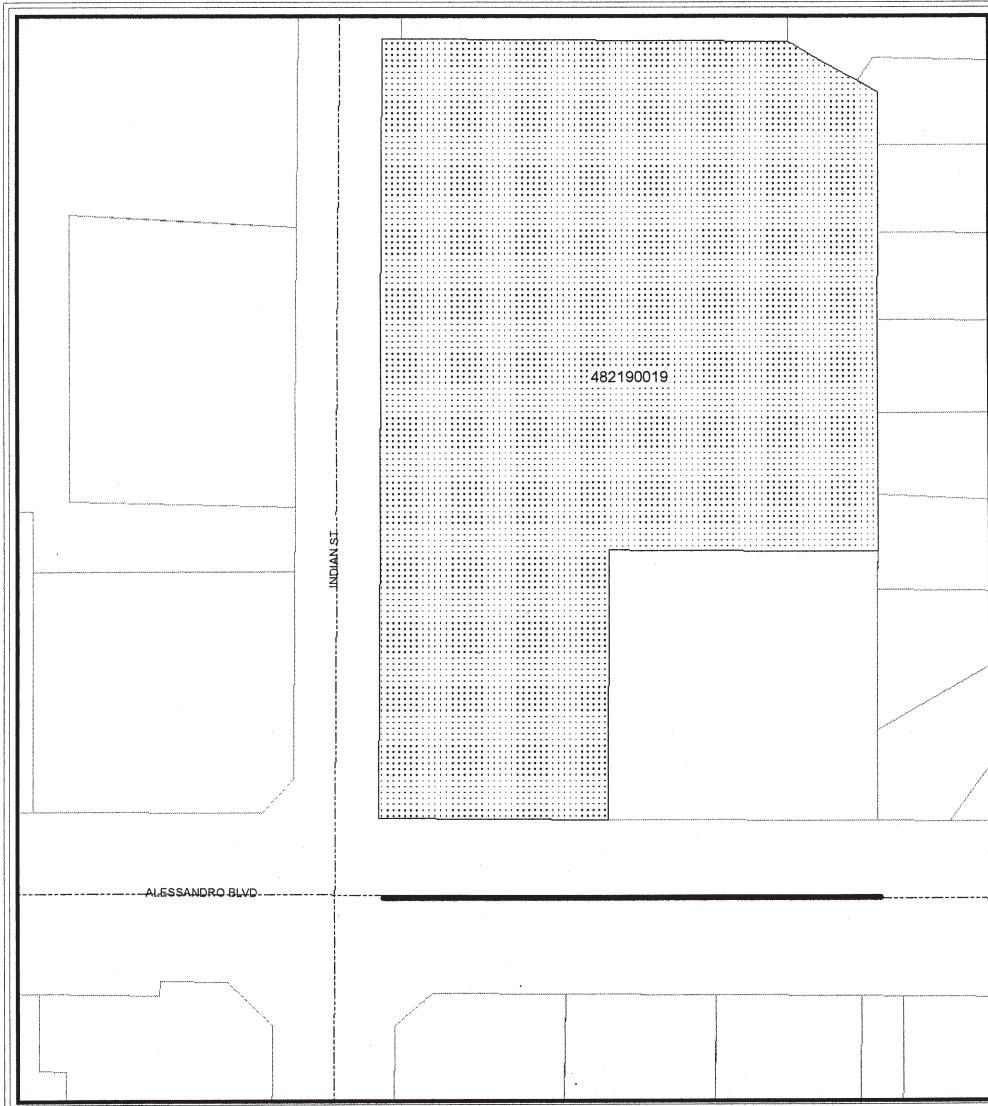
Remember to sign and date the ballot, making sure to mark the appropriate voting box, and return it in the enclosed envelope. Your returned ballot must be received by the City Clerk's office prior to the close of the Public Hearing, which is scheduled for 6:00 pm on February 25, 2014.

COMMON INTEREST, COMMERCIAL, INDUSTRIAL AND QUASI-PUBLIC USE NPDES RATE SCHEDULE
Adopted by the City Council on January 10, 2006







LEVEL 1			LEVEL II		
NPDES Administration			Site Design, Source Control and Treatment Control BMPs Monitoring and Maintenance		
<i>(Not covered by CSA 152)</i>					
<p>Costs associated with personnel, administration and management of the storm water management program. Administrative tasks include development and filing of various stormwater reports and data collection and management.</p> <p>Level I is levied on all parcels conditioned for the NPDES Rate Schedule.</p>			<p>Costs associated with stormwater and non-stormwater runoff monitoring, inspection of the project's site design, source control and treatment control BMPs; evaluation of site stormwater compliance activities, review of site-specific technical reports and treatment control BMP maintenance records.</p>		
<p>Fiscal Year (FY) 2005/2006 - Base Year Calculation, subject to an annual inflation factor based on the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics</p>					
PROPOSED PARCEL RATE	Per Month	Per Year	PROPOSED PARCEL RATE	Per Month	Per Year
	\$2.67	\$32.00		\$12.58	\$151.00

Inflation Factor Adjustments

- FY 2006/2007 - 4.5% = (\$33.00 & \$158.00)
- FY 2007/2008 - 3.1% = (\$34.00 & \$163.00)
- FY 2008/2009 - 4.2% = (\$35.00 & \$170.00)
- FY 2009/2010 - no change = (\$35.00 & \$170.00)
- FY 2010/2011 - no change = (\$35.00 & \$170.00)
- FY 2011/2012 - 3.8% = (\$36.00 & \$176.00)
- FY 2012/2013 - 2.7% = (\$37.00 & \$181.00)
- FY 2013/2014 - 2.0% = (\$38.00 & \$185.00) rounded to the nearest dollar

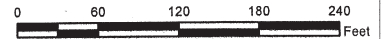


PA13-0009 for the Alessandro Blvd Kroger Fueling Station

- APN**
-  482190019
 -  Roads
 -  Parcels
 -  City Boundary
 -  Median
 -  Landscaped Areas

Map reflects all changes indicated
on Riverside County Assessor Maps
as of January 6, 2014.

N



G:\VVP\SDA\Taylor PA13-0009.mxd

The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Data and information on this map is subject to update and modification. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map. This map is not to be recycled or resold.



This page intentionally left blank.

TEL: 951.413.3480
 FAX: 951.413.3498
 WWW.MOVAL.ORG



14331 FREDERICK STREET, SUITE 2
 P. O. BOX 88005
 MORENO VALLEY, CA 92552-0805

Moreno Knox
 c/o Sares Regis Group
 Attention: Janine Padia
 18802 Bardeen Ave
 Irvine, CA 92612

January 9, 2014

NOTICE TO PROPERTY OWNER-MAIL BALLOT PROCEEDING FOR APNs 316-210-071, 316-210-073, 316-210-075, AND 316-210-079 FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAXIMUM COMMERCIAL/INDUSTRIAL REGULATORY RATE AND FOR COMMUNITY SERVICES DISTRICT (CSD) ZONE M (COMMERCIAL, INDUSTRIAL, AND MULTIFAMILY IMPROVED MEDIAN MAINTENANCE)

******* OFFICIAL BALLOTS ENCLOSED *******

Introduction

In November of 1996, California voters passed Proposition 218 ("The Right to Vote on Taxes Act"). As a result, any new or proposed increase in a property-related charge requires approval of the charge by the property owner of record. In compliance with Proposition 218 legislation, the City of Moreno Valley Special Districts Division is conducting a mail ballot proceeding to provide the owner of Assessor's Parcel Numbers (APNs) 316-210-071, 316-210-073, 316-210-075, and 316-210-079 the opportunity to express support for or opposition to the approval of the NPDES regulatory rate and services, and for inclusion into and approval of the annual charge for the CSD Zone M program.

Background

NPDES Maximum Commercial/Industrial Regulatory Rate

The City shall provide the services necessary to meet mandates of the Federal Clean Water Act. The current NPDES Permit, as administered by the State, regulates the volume and amount of pollutants in stormwater runoff from all development types. NPDES Maximum Commercial/Industrial Regulatory Rate provides financial support to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

CSD Zone M Charge

The CSD was formed simultaneously with City incorporation and established Zones to allocate the costs of special benefit services to those parcels designated to receive selective programs. The CSD Zone M program provides ongoing maintenance to improved medians adjacent to commercial, industrial, and multifamily developments in designated areas of the City. Commercial, industrial, and multifamily developments along designated arterial streets are conditioned to participate in the improved median maintenance program in compliance with the Citywide Arterial Median Maintenance Policy approved by the CSD Board in March 2003 and revised in January 2006.

Services Provided

NPDES Maximum Commercial/Industrial Regulatory Rate

In compliance with the Federal Clean Water Act, the City of Moreno Valley shall annually inspect site design, source and treatment control Best Management Practices, verify monitoring and maintenance records for those on-site facilities, and perform annual inspections of the affected areas to ensure compliance with federally mandated NPDES Permit requirements, as administered by the State.

CSD Zone M Charge

Special Districts Division staff manages private landscape maintenance firms to ensure that landscape preservation activities are completed on a regular schedule. The CSD Zone M annual charge was established to cover administration and service costs for the landscape maintenance. Services include, but are not limited to: trimming, pruning, fertilizing, replacing plant material(s) as necessary, litter removal, weed control, maintenance of the irrigation system, payment of water and electric utility charges, staff support, and other items necessary for the satisfactory maintenance of the landscaped medians.

How is the Amount of the Charge Determined?

NPDES Maximum Commercial/Industrial Regulatory Rate

Each fiscal year (FY), the City of Moreno Valley shall determine the type of services necessary to comply with NPDES Permit requirements and levy the rate applicable for that service. The rate levied shall not exceed the rate previously approved by the property owner.

CSD Zone M Charge

The annual CSD Zone M charge includes maintenance and administration costs. The CSD Zone M charges shall be proportionally adjusted if the previously mentioned APNs are subdivided in the future. If parcels are merged, then the annual charges for those parcels shall be combined. The charge levied shall not exceed the charge previously approved by the property owner.

Proposed Charge

NPDES Maximum Commercial/Industrial Regulatory Rate

For FY 2013/14, the NPDES maximum commercial/industrial regulatory rate is \$223.00 per parcel. The total amount of the NPDES rates levied for FY 2013/14 for the program as a whole was \$419,571.00.

CSD Zone M Charge

The combined CSD Zone M annual charge for FY 2013/14 for the existing Perris Blvd. median is \$2,730.47 and is spread to each APN based on the parcel's acreage. The total amount of the CSD Zone M charges levied for FY 2013/14 for the program as a whole was \$165,549.72.

Annual Adjustment

NPDES Maximum Commercial/Industrial Regulatory Rate

Beginning in FY 2014/15, the NPDES Maximum Commercial/Industrial Regulatory Rate shall be subject to an annual adjustment based on the percentage change calculated for the previous year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

CSD Zone M Charge

Beginning in FY 2014/15, the CSD Zone M charge shall be subject to an annual adjustment based on the percentage change calculated for the previous calendar year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics.

Duration of the Charge

Upon approval of the NPDES Maximum Commercial/Industrial Regulatory Rate, the annual levy amount will be assessed to APNs 316-210-071, 316-210-073, 316-210-075, and 316-210-079 (and any division thereof) and shall be placed on the Riverside County property tax bill or as a monthly charge on a utility bill. Upon approval, the CSD Zone M charge shall be placed on the Riverside County property tax bill. The NPDES Maximum Commercial/Industrial regulatory rate and the CSD Zone M charge will be levied each following year at the proposed rate, which may include an annual inflation adjustment.

Public Hearing

To provide information concerning this mail ballot proceeding the City/CSD has scheduled one (1) Public Meeting and one (1) Public Hearing, which will be held at the **Moreno Valley City Hall Council Chamber located at 14177 Frederick Street, Moreno Valley.**

<u>Public Meeting</u>	<u>Public Hearing</u>
Tuesday, February 11, 2014 6:00 P.M. (Or As Soon Thereafter As The Matter May Be Called)	Tuesday, February 25, 2014 6:00 P.M. (Or As Soon Thereafter As The Matter May Be Called)

Tabulation of all returned ballots will commence after the close of the Public Hearing. All ballots received shall be tabulated under the direction of the City Clerk/Secretary of the CSD Board of Directors in compliance with the current Policy For Conducting Mail Ballot Proceedings Policy #1.12.

Effect if Inclusion into and Approval of the Charges are Approved

Approval of the NPDES Maximum Commercial/Industrial maximum regulatory rate will be confirmed for each parcel if the ballot is marked in favor of the NPDES rate. Inclusion into the CSD Zone M program and approval of the annual charges will be confirmed if a simple majority of the weighted value of APNs are marked in favor of the annual charges.

Effect if Inclusion into and Approval of the Charges are Not Approved

NPDES Maximum Commercial/Industrial Regulatory Rate

Not approving the NPDES commercial/industrial regulatory rate to meet federally mandated NPDES Permit requirements will not satisfy the Conditions of Approval. If the returned valid ballot is marked opposing the NPDES rate, then the rate will not be levied on the property tax bill.

CSD Zone M Charge

If the ballot is marked in opposition to the CSD Zone M annual charge, then the annual charge will not be levied on the property tax bill and the Conditions of Approval will not be satisfied.

For More Information

If you have any questions about the proposed programs, the annual rates, or about the mail ballot proceeding process, please contact Jennifer Terry, Management Analyst, Special Districts, a Division of the Financial and Management Services Department, Monday through Thursday from 7:30 a.m. to 6:00 p.m. at 951.413.3505 or via email at JenniferT@moval.org.

Completing Your Ballot

Property owner may submit the enclosed ballots to the City Clerk in support of or opposition to the proposed programs and annual charges. Please follow the instructions listed below to complete and return your ballots. Procedures for the completion, return, and tabulation of the ballots are also on file in the City Clerk's office.

1. Mark the two enclosed ballots in support for or opposition to the proposed programs and annual charges **by placing a mark in the corresponding box.**
2. Sign your name on the ballots. Ballots received without signature(s) will be considered invalid *and will not be counted.*
3. Mail or personally deliver your ballots in a sealed envelope to the City Clerk's office, 14177 Frederick Street, Moreno Valley, California, 92553. For your convenience, postage-paid envelopes have been included for return of the ballots.
4. Ballot(s) must be **received** by the City Clerk prior to the close of the Public Hearing to be held on **Tuesday, February 25, 2014**, at the Moreno Valley City Hall Council Chamber. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called. Ballots received after the close of the Public Hearing cannot be legally counted.

Ballot Marks

Appropriate ballot markings include any one of the following for either the YES/Approved or NO/Not Approved blank box:



A check mark substantially inside a box;



An X mark substantially inside a box;



A dot or oval mark substantially inside a box;



A completely shaded or filled mark substantially inside a box;



A line, single or dashed, or combination of lines, through the box area. Lines may be any one of the following marks: horizontal, vertical, or diagonal. The mark may either run from side to side or corner to corner. All valid lines must be substantially within the box area and not marking any part of another blank box on the ballot;



A circle around the box and/or associated clause; or



A square or rectangle around the box and/or associated clause.

Balloting marks shall not extend past one box area into any portion of another nor surround the perimeter or any portion of more than one box area. Markings that extend past one box area into any portion of another or surround the perimeter or any portion of more than one box area shall be considered invalid and not counted.

Ballot Mark Revisions (Changes): An error or desire to revise (change) a selection made on the ballot may be completed and returned any time **prior** to the conclusion of public testimony at the Public Hearing. **The revision must be initialed by the record owner(s) of property. Initials must be clearly printed and placed at the right top corner of the revised selection.**

**OFFICIAL MAIL BALLOT for
Assessor's Parcel Numbers (APNs)
316-210-071, 316-210-073, 316-210-075, and 316-210-079
Moreno Valley Community Services District (CSD) Zone M
(Commercial, Industrial, and Multifamily Improved Median Maintenance)**

YES* — as the property owner of APNs 316-210-071, 316-210-073, 316-210-075, and 316-210-079, **I approve** the combined CSD Zone M annual charge for FY 2013/14 for the Perris Blvd. median of \$2,730.47. Beginning FY 2014/15, the annual CSD Zone M charges shall be subject to an annual adjustment based on the percentage change calculated for the previous calendar year in the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics. Upon approval, the CSD Zone M charges shall be placed on the Riverside County property tax bill. The CSD Zone M charges shall be proportionally adjusted if said APNs are subdivided. If parcels are merged, then the annual charges for those parcels will be combined.

NO** — as the property owner of APNs 316-210-071, 316-210-073, 316-210-075, and 316-210-079, **I do not approve** the CSD Zone M annual parcel charges. I understand that not incorporating said APNs into the CSD Zone M program will not satisfy the Conditions of Approval. The CSD Zone M charges shall not be levied on the Riverside County property tax bill.

Assessor Parcel Number	YES*	NO**	CSD Zone M Annual Charge***
316-210-071 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	\$661.64
316-210-073 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	668.16
316-210-075 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	697.27
316-210-079 (and any division thereof)	<input type="checkbox"/>	<input type="checkbox"/>	703.40

***The weighted value for each APN is equal to its proposed annual charge. The combined proposed Zone M charge for this ballot is \$2,730.47.

This ballot must be received by the Secretary of the Board of the CSD (City Clerk) prior to the close of the Public Hearing to be held on February 25, 2014, at the Moreno Valley City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, California. The Public Hearing will be held at 6:00 p.m. or as soon thereafter as the matter may be called.

PROPERTY OWNER SIGNATURE DATE

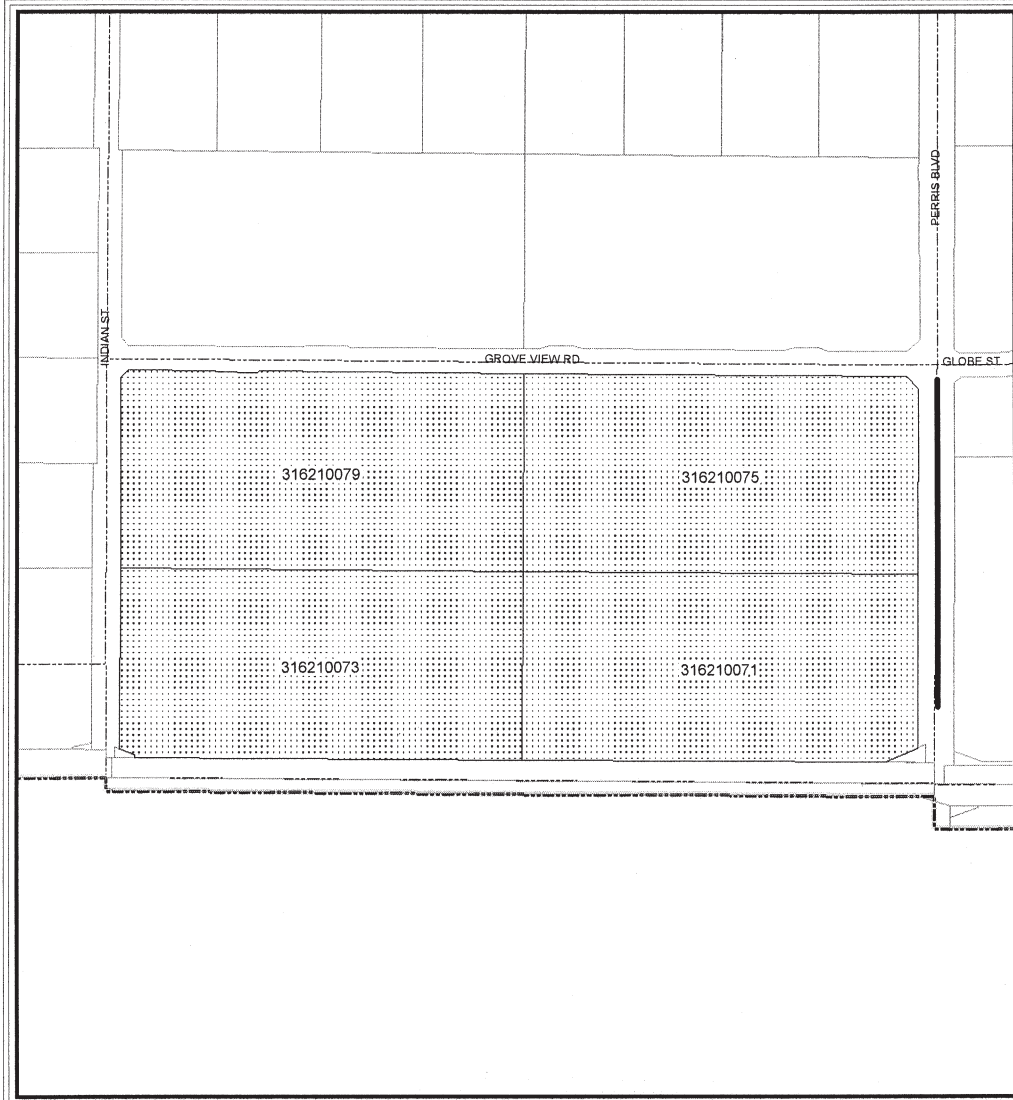
Remember to sign and date the ballot, making sure to mark the appropriate voting box for each APN, and return it in the enclosed envelope. Your returned ballot must be received by the City Clerk's office prior to the close of the Public Hearing, which is scheduled for 6:00 pm on February 25, 2014.

COMMON INTEREST, COMMERCIAL, INDUSTRIAL AND QUASI-PUBLIC USE NPDES RATE SCHEDULE
 Adopted by the City Council on January 10, 2006

LEVEL 1			LEVEL II		
NPDES Administration			Site Design, Source Control and Treatment Control BMPs Monitoring and Maintenance		
<i>(Not covered by CSA 152)</i>					
Costs associated with personnel, administration and management of the storm water management program. Administrative tasks include development and filing of various stormwater reports and data collection and management. Level I is levied on all parcels conditioned for the NPDES Rate Schedule.			Costs associated with stormwater and non-stormwater runoff monitoring, inspection of the project's site design, source control and treatment control BMPs; evaluation of site stormwater compliance activities, review of site-specific technical reports and treatment control BMP maintenance records.		
Fiscal Year (FY) 2005/2006 - Base Year Calculation, subject to an annual inflation factor based on the Los Angeles-Riverside-Orange County Regional Consumer Price Index for All Urban Consumers, as published by the Department of Labor's Bureau of Labor Statistics					
PROPOSED PARCEL RATE	Per Month	Per Year	PROPOSED PARCEL RATE	Per Month	Per Year
	\$2.67	\$32.00		\$12.58	\$151.00





Inflation Factor Adjustments






- FY 2006/2007 - 4.5% = (\$33.00 & \$158.00)
- FY 2007/2008 - 3.1% = (\$34.00 & \$163.00)
- FY 2008/2009 - 4.2% = (\$35.00 & \$170.00)
- FY 2009/2010 - no change = (\$35.00 & \$170.00)
- FY 2010/2011 - no change = (\$35.00 & \$170.00)
- FY 2011/2012 - 3.8% = (\$36.00 & \$176.00)
- FY 2012/2013 - 2.7% = (\$37.00 & \$181.00)
- FY 2013/2014 - 2.0% = (\$38.00 & \$185.00) rounded to the nearest dollar



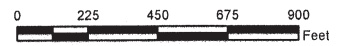
Sares Regis PA09-0004

APN

-  316210071
-  316210073
-  316210075
-  316210079

-  Roads
-  Parcels
-  City Boundary
-  Median
-  Landscaped Areas

Map reflects all changes indicated
on Riverside County Assessor Maps
as of January 6, 2014.

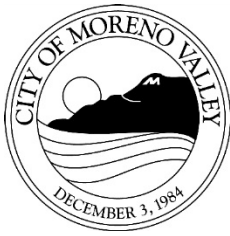


G:\VPI\SDA\PA09-0004 Sares Regis.mxd

The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Data and information on this map is subject to update and modification. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map. This map is not to be recycled or resold.



This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: John Terell, Community & Economic Development Director

AGENDA DATE: February 25, 2014

TITLE: APPEAL OF THE PLANNING COMMISSION'S JANUARY 16, 2014 APPROVAL OF AMENDED PLOT PLAN P13-111 TO CONSTRUCT AN 800,430 SQUARE FOOT REFRIGERATED WAREHOUSE DISTRIBUTION FACILITY IN PLACE OF THE 937,260 SQUARE FOOT WAREHOUSE FACILITY ORIGINALLY APPROVED FOR THE WEST RIDGE COMMERCE CENTER PROJECT (PA08-0097). THE PROJECT IS LOCATED ON THE SOUTH SIDE OF STATE ROUTE 60, ON THE NORTH SIDE OF EUCALYPTUS AVENUE AND APPROXIMATELY 650 FEET WEST OF REDLANDS BOULEVARD. THE APPLICANT IS ALDI FOODS. THE APPELLANT IS LEIBOLD, MCCLENDON & MANN ON BEHALF OF CITIZENS OF THE CITY OF MORENO VALLEY

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Conduct a public hearing for Amended Plot Plan P13-111 and subsequent to the public hearing:
2. **APPROVE** Resolution No. 2014-17. A Resolution of the City Council of the City of Moreno Valley, California, recognizing the preparation of an addendum to the Certified West Ridge Commerce Center Environmental Impact Report (Sch #2009101008) and approving Amended Plot Plan Application No. P13-111 for an 800,430 square foot Refrigerated Warehouse Distribution Facility on 55 acres within Assessor's Parcel Numbers 488-330-003 to -006 and -026.

SUMMARY

This report recommends that the Council conduct a Public Hearing and consider staff's recommendation to approve Amended Plot Plan P13-111. This project was approved at by the Community and Economic Development Director, and was then appealed to the Planning Commission by Leibold, McClendon & Mann. The project was then reviewed and approved by the Planning Commission at a public hearing on January 16, 2014. Subsequently, the Amended Plot Plan was appealed to the City Council on January 30, 2014 by the same appellant.

DISCUSSION

Background

Amended Plot Plan P13-111 was approved by the Community and Economic Development Director on November 22, 2013 following review of the project plans and preparation of an Addendum to the Certified Environmental Impact Report (EIR) for the West Ridge Commerce Center project.

An appeal of this administrative decision to the Planning Commission was received by the City on December 5, 2013. The project was then scheduled for a public hearing before the Planning Commission on January 16, 2014.

The Planning Commission conducted a public hearing for Amended Plot Plan P13-111 on January 16, 2014. A representative of the appellant was not in attendance. After taking public comments and some discussion with staff and the applicant regarding the project and the Addendum to the EIR, the Planning Commission voted 6-0 with one Commissioner seat vacant, to approve the project.

An appeal of this action to the City Council was received by the City on January 30, 2014. The project was then scheduled for a public hearing before the City Council on February 25, 2014.

Project

Amended Plot Plan P13-111 proposes an 800,430 square foot refrigerated warehouse distribution facility on 55 acres for use as the regional headquarters for grocery retailer, Aldi. Aldi is the owner/operator of the facility and would employ approximately 200 employees at this location.

The proposed refrigerated warehouse facility would replace a 937,260 square foot warehouse facility (West Ridge Commerce Center) which was approved by the City Council as Plot Plan PA08-0097 for the same site on September 6, 2011. The original approval included the Certification of an Environmental Impact Report for the West Ridge Commerce Center project.

The Amended Plot Plan P13-111 proposes the following minor changes:

- A reduction in building area from 937,260 square feet to 800,430 square feet;
- Revised elevations and colors;
- Revised on-site parking layout and circulation; and
- Re-design of the storm water detention system from two basins to a single basin.

Regardless of the outcome of the City Council's action on the Amended Plot Plan (P13-111), the original entitlement (PA08-0097) for a 937,260 square foot warehouse building would remain in place.

Site

The project site is comprised of vacant land that is mostly level and at grade with Fir Avenue/Future Eucalyptus Avenue and at or below grade of adjacent State Route 60. There are no trees, rock outcroppings or existing structures located within the limits of the project site. The project site includes a portion of the Quincy Channel which includes some riparian vegetation.

The project site is zoned Light Industrial (LI) with a Business Park (BP) General Plan land use designation.

The proposed warehouse distribution facility is a permitted use in the Light Industrial zone.

Surrounding Area

The project is located in an area that includes a mix of business park, office, commercial, residential and agricultural uses.

Developed land within proximity to the project site includes citrus groves, the Moreno Valley Auto Mall and Moreno Beach Plaza (Walmart) center to the west at Moreno Beach Drive, the 1.8 million square foot Highland Fairview Business Park (Skechers) warehouse facility to the east between Redlands and Theodore and large lot subdivisions approximately 1/4 mile to the south in the RA-2 zone.

Developed uses to the north on the other side of State Route 60 include an RV storage site, a telecommunications antenna, a residence and a feed store. The vacant 120 acre site to the west is currently proposed for development of a 2.2 million square foot industrial park by Prologis.

Access/Parking

The project site will be accessed directly from Fir Avenue/Future Eucalyptus Avenue via Redlands Boulevard and State Route 60. This portion of Fir Avenue/Future Eucalyptus Avenue would be constructed by the applicant/developer as a condition of the project.

The driveways and interior drive aisles associated with the project have been approved by the Fire Prevention Bureau for fire truck access and turnaround. The site has also

been designed for adequate truck maneuvering and turnaround within the designated loading zones located on the north and south elevations of the building.

Based upon the results of a parking study prepared per Municipal Code Section 9.11.070 a total of 313 employee spaces is needed for the operation of the proposed warehouse. The project design provides 374 employee/visitor spaces. The project satisfies all parking requirements of the City's Municipal Code.

Design/Landscaping

The site layout has been modified from the original approval by replacing two detention basins along Fir Avenue/Future Eucalyptus Avenue with a single basin and re-designing on-site circulation and employee parking.

The building has been reduced in size from 937,260 square feet to 800,430 square feet and new elevations proposed. The proposed use requires the installation of roof-mounted refrigeration units and the addition of emergency generators near the building's northwest corner.

The facility includes the following:

- 263,800 square feet of perishable area;
- 506,380 square feet of warehouse;
- 5,250 square feet mechanical room;
- 50,000 square feet of office space (25,000 square feet on both the 1st and 2nd floors)

The architectural design of the building is concrete tilt-up construction. Building and wall colors include earthtones with varying amounts of accent colors and vertical features to break up the architecture of building. All roof top equipment will be screened by parapet walls and screen shelters.

Site design and architectural design of the proposed warehouse distribution facility is consistent with requirements of the City's Municipal Code.

Staff worked with the applicant to ensure that all sides of the building include architectural treatment consistent with the Municipal Code. The loading bays and trailer storage areas along the northern and southern elevations have been screened from view. The screen wall along the south elevation is a fourteen (14) foot wall of concrete tilt-up construction which will match the building design and colors.

The site plan has been designed to provide landscape areas and parking lot planters consistent with the City's Municipal Code. The City's Municipal Code does not require a minimum percentage of landscape on a site. Instead, there are requirements for landscape setback areas along perimeter streets, parking lot landscape, street trees and landscape treatments around the perimeter of the buildings where visible from the public right-of-way. The project as designed meets the City's current landscape criteria.

Signs are not a part of this approval and will be reviewed and approved under separate administrative permit.

This project has been reviewed and the design of the proposed Amended Plot Plan conforms to all development standards of the LI zone and the design guidelines for industrial uses as required within the City's Municipal Code.

Environmental

Concurrent with the review of the Amended Plot Plan application P13-111, staff determined that preparation of an Addendum to the Certified EIR for the West Ridge Commerce Center project was warranted and consistent with the California Environmental Quality Act statutes and guidelines. Planning staff also determined that none of the conditions described in CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR had occurred. Section 1.3 of the Addendum provides a brief explanation of the decision to not prepare a subsequent EIR for Amended Plot Plan P13-111.

The preparation of the Addendum included updates to the environmental checklist, updates to the project's traffic and air quality studies, and a field review update to the original biological study.

The Addendum concluded that implementation and operation of the amended plot plan will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the Certified EIR.

The California Environmental Quality Act Guidelines do not require the circulation of an addendum for public review. However, notices of a Pending Administrative Review for Amended Plot Plan P13-111 were distributed through the United State Postal Service to all property owners within 300 feet of the project site and to all interested parties.

Copies of the Addendum have been available to the public during the 10 day notice period and provided to all interested parties upon request. The Addendum is attached to this staff report as Exhibit A to Attachment 2. The Certified Environmental Impact Report for the original West Ridge Commerce Center project is available for reference in the Community and Economic Development Department, Planning Division.

In the letter filing the appeal, the appellant identifies only that "...due to the unique nature of this Project and its environmental impacts, it cannot be approved with merely an addendum under Section 15164 of the CEQA Guidelines." As previously described, the amended project is considerably scaled down from the currently entitled project on the site. Specifically, the amended project is 136,830 square feet smaller than the entitled project. The Addendum to the EIR has fully analyzed all potential environmental impacts of the modified warehouse distribution project, including refrigeration for perishable goods.

ALTERNATIVES

1. Approve the proposed Resolution for Amended Plot Plan P13-111 approving Amended Plot Plan P13-111, and thereby deny the appeal. **Staff recommends this alternative.**
2. Deny Amended Plot Plan P13-111, thereby upholding the appeal. **Staff does not recommend this alternative.**

FISCAL IMPACT

Not applicable.

CITY COUNCIL GOALS

Not applicable.

NOTIFICATION

A notice of the public hearing was published in the newspaper, posted at required City locations and at the project site, and mailed to property owners within 300 feet of the proposed project. Notice was also provided to all interested parties that requested a notice.

As of the date of report preparation, staff had received no public inquiries in response to the noticing for the City Council public hearing for this project.

ATTACHMENTS

1. Public Hearing Notice
2. City Council Resolution – Amended Plot Plan
3. Aerial Photograph
4. Architectural Plans
5. Preliminary Grading Plans
6. Administrative Approval comment letters
7. Responses to comment letters
8. Planning Commission appeal letter
9. Briggs Law opposition letter
10. Leibold, McClendon & Mann protest letter
11. City Council Appeal Letter
12. Planning Commission staff report
13. Planning Commission minutes from January 16, 2014 meeting

Prepared By:
Jeff Bradshaw
Associate Planner

Department Head Approval:
John C. Terell, AICP
Community & Economic Development Director

Concurred By:
Chris Ormsby, AICP
Interim Planning Official



Notice of PUBLIC HEARING

This may affect your property. Please read.
Notice is hereby given that a Public Hearing will be held by the City Council of the City of Moreno Valley on the following item:

CASE: P13-111 – Amended Plot Plan - Appeal

APPLICANT: ALDI

OWNER: Ridge Rancho Belago

REPRESENTATIVE: The Walker Companies

LOCATION: South side of State Route 60, on the north side of Eucalyptus Avenue and approximately 650 feet west of Redlands Boulevard.

PROPOSAL: Appeal of the Planning Commission's January 16, 2014 approval of Amended Plot Plan P13-111 for the Project Orion Distribution Center (ALDI Foods) project. This project proposes to construct an 800,340 square foot refrigerated warehouse distribution facility in place of the 937,260 square foot warehouse facility originally approved for the West Ridge Commerce Center project (PA08-0097).

ENVIRONMENTAL DETERMINATION: An Addendum to the certified West Ridge Commerce Center project Environmental Impact Report was prepared for the Amended Plot Plan. The Addendum concludes that implementation and operation of the Project Orion development plan will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the certified EIR.

COUNCIL DISTRICT: 3

STAFF RECOMMENDATION: Approval

Any person interested in any listed proposal can contact the Community & Economic Development Department, Planning Division, at 14177 Frederick St., Moreno Valley, California, during normal business hours (7:30 a.m. to 6:00 p.m., Monday through Thursday and 2nd and 4th Fridays from 7:30 a.m. to 1:30 p.m.), or may telephone (951) 413-3206 for further information. The associated documents will be available for public inspection at the above address.

In the case of Public Hearing items, any person may also appear and be heard in support of or opposition to the project or recommendation of adoption of the Environmental Determination at the time of the Hearing.

The City Council, at the Hearing or during deliberations, could approve changes or alternatives to the proposal.

If you challenge any of these items in court, you may be limited to raising only those items you or someone else raised at the Public Hearing described in this notice, or in written correspondence delivered to the City Council at, or prior to, the Public Hearing.



LOCATION N Ø CITY COUNCIL HEARING

City Council Chamber, City Hall
14177 Frederick Street
Moreno Valley, Calif. 92553

DATE AND TIME: February 25, 2014 at 6 PM
CONTACT PLANNER: Jeff Bradshaw
PHONE: (951) 413-3224

This page intentionally left blank.

RESOLUTION NO. 2014-17

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, RECOGNIZING THE PREPARATION OF AN ADDENDUM TO THE CERTIFIED WEST RIDGE COMMERCE CENTER ENVIRONMENTAL IMPACT REPORT (SCH #2009101008) AND APPROVING AMENDED PLOT PLAN APPLICATION NO. P13-111 FOR AN 800,430 SQUARE FOOT REFRIGERATED WAREHOUSE DISTRIBUTION FACILITY ON 55 ACRES WITHIN ASSESSOR'S PARCEL NUMBERS 488-330-003 TO -006 AND -026

WHEREAS, the applicant, filed an application on September 17, 2013 for the approval of Amended Plot Plan application P13-111 for development of a refrigerated warehouse distribution facility as described in the title of this Resolution; and

WHEREAS, on September 6, 2011, the City Council of the City of Moreno Valley reviewed in full the Final EIR, the Statement of Overriding Considerations and Mitigation Monitoring Program for the West Ridge Commerce Center Project and Certified the Environmental Impact Report (State Clearinghouse #2009101008) and approved Plot Plan PA08-0097; and

WHEREAS, staff determined that an Addendum to the Certified Environmental Impact Report for the West Ridge Commerce Center project should be prepared for Amended Plot Plan P13-111 in conformance with CEQA Guidelines; and

WHEREAS, an Addendum was prepared by the environmental consulting firm, Applied Planning, and reviewed by Planning staff; and

WHEREAS, the Addendum concludes that implementation and operation of Amended Plot Plan P13-111 will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the Certified EIR; and

WHEREAS, Amended Plot Plan P13-111 has been conditioned to implement the original Mitigation Monitoring Program for the West Ridge Commerce project as outlined in the Certified EIR are implemented; and

WHEREAS, the Amended Plot Plan was approved by the Community and Economic Development Director on November 22, 2013; and

WHEREAS, an appeal of the November 22, 2013 approval was filed with the City on December 5, 2013; and

1
Resolution No. 2014-17
Date Adopted: February 25, 2014

WHEREAS, on January 16, 2014, the Planning Commission of the City of Moreno Valley approved Amended Plot Plan P13-111; and

WHEREAS, an appeal of the January 16, 2014 Planning Commission approval was filed with the City on January 30, 2014; and

WHEREAS, on February 25, 2014, the City Council of the City of Moreno Valley held a meeting to consider the application; and

WHEREAS, all legal prerequisites to the adoption of this Resolution have occurred; and

WHEREAS, there is hereby imposed on the subject development project certain fees, dedications, reservations and other exactions pursuant to state law and City ordinances; and

WHEREAS, pursuant to Government Code Section 66020(d)(1), NOTICE IS HEREBY GIVEN that this project is subject to certain fees, dedications, reservations and other exactions as provided herein.

NOW, THEREFORE, BE IT RESOLVED, it is hereby found, determined and resolved by the City Council of the City of Moreno Valley as follows:

Section 1 – Addendum to Certified EIR:

- A. This City Council hereby specifically finds that all of the facts set forth above in this Resolution are true and correct.
- B. Based upon substantial evidence presented to this City Council during the above-referenced meeting on February 25, 2014, including written and oral staff reports, and the record from the public hearing, this City Council hereby specifically finds as follows:
 - 1. No Subsequent or Supplemental EIR is required.

FACT: Preparation of an Addendum to the Certified EIR for the West Ridge Commerce Center project for Amended Plot Plan P13-111 is warranted since none of the conditions described in the California Environmental Quality Act (CEQA) Guidelines Section 15162 calling for preparation of a Subsequent EIR have occurred. Section 1.3 of the Addendum provides a brief explanation of the decision to not prepare a subsequent EIR for Amended Plot Plan P13-111.

- 2. An Addendum Need Not Be Circulated for Public Review.

2
Resolution No. 2014-17
Date Adopted: February 25, 2014

FACT: As stated in Section 15164(c) of the CEQA Guidelines, an Addendum to the Environmental Impact Report need not be recirculated for public review. The Addendum was not circulated for public review. However, notices of a Public Hearing for Amended Plot Plan P13-111 were distributed through the United State Postal Service to all property owners within 300 feet of the project site and to all interested parties. The notice provided a general project description and referenced the public hearing date of February 25, 2014.

Copies of the Addendum were available during the noticing period and provided to all interested parties upon request.

3. Independent Judgment Finding

FACT: The Applicant retained the independent consulting firm of Applied Planning, Inc. (“Applied Planning”) to prepare the Addendum for the Project. Applied Planning has prepared the Addendum under the supervision, direction and review of the City. The City of Moreno Valley is the Lead Agency for the preparation of the Addendum to the EIR, as defined by CEQA CPRC Section 21067 as amended. The City Council has received and reviewed the Addendum prior to making any decision to approve or disapprove the Project.

The Addendum for the Project reflects the City’s independent judgment. The City has exercised independent judgment in accordance with *Public Resources Code* Section 21082.1(c) (3) in directing the consultant in the preparation of the Addendum as well as reviewing, analyzing and revising material prepared by the consultant.

Section 2 – Amended Plot Plan:

- A. This City Council hereby specifically finds that all of the facts set forth above in this Resolution are true and correct.
- B. Based upon substantial evidence presented to this City Council during the above-referenced meeting on February 25, 2014, including written and oral staff reports, and the record from the public hearing, this City Council hereby specifically finds as follows:
 - 1. Conformance with General Plan Policies – The proposed Amended Plot Plan is consistent with the General Plan, and its goals, objectives, policies and programs.

FACT: The General Plan encourages a mix of industrial uses to provide a diversified economic base and ample employment

3
Resolution No. 2014-17
Date Adopted: February 25, 2014

opportunities. Stated policies require the avoidance of adverse impacts on surrounding properties and the screening of industrial uses to reduce glare, noise, dust, vibrations and unsightly views. The project as designed and conditioned would achieve the objectives of the City of Moreno Valley's General Plan. The proposed project is consistent with the General Plan and do not conflict with the goals, objectives, policies, and programs established within the Plan.

2. Conformance with Zoning Regulations – The proposed Amended Plot Plan complies with all applicable zoning and other regulations.

FACT: The project site is currently zoned Light Industrial. The proposed use will comply with all applicable zoning regulations. The project is designed in accordance with the provisions of Chapter 9.05 Industrial Districts of the City's Municipal Code.

3. Health, Safety and Welfare – The proposed use as identified on the Amended Plot Plan will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity.

FACT: The proposed 800,430 square foot refrigerated warehouse facility as designed and conditioned will not adversely affect the public health, safety or general welfare. An Addendum to the Certified West Ridge Commerce Center EIR was prepared to address the potential environmental impacts of the project in accordance with the provisions of the California Environmental Quality Act (CEQA). The Addendum concluded that implementation and operation of the Project Orion development plan will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the Certified EIR.

4. Location, Design and Operation – The location, design and operation of the proposed project will be compatible with existing and planned land uses in the vicinity.

FACT: The project is located on the south side of State Route 60 and east of the Moreno Valley Auto Mall. Land uses to the north include the freeway with BP zone land to the west and Community Commercial zone land to the east. South of the facility on the other side of Fir Avenue/Future Eucalyptus Avenue is vacant RA-2 zone land with tract homes in the RA-2 zone approximately ¾ miles further south. The proposed refrigerated warehouse distribution

facility is a permitted use within the site's Light Industrial (LI) zone. The facility has been designed to meet the setback/buffering requirements for warehouse projects in the Industrial zone that are proximate to single-family residential zoned land. As designed and conditioned the project is compatible with existing and proposed land uses in the vicinity.

C. FEES, DEDICATIONS, RESERVATIONS, AND OTHER EXACTIONS

1. FEES

Impact, mitigation and other fees are due and payable under currently applicable ordinances and resolutions. These fees may include but are not limited to: Development Impact Fee, Transportation Uniform Mitigation Fee (TUMF), Multi-species Habitat Conservation Plan (MSHCP) Mitigation Fee, Stephens Kangaroo Habitat Conservation fee, Underground Utilities in lieu Fee, Area Drainage Plan fee, Bridge and Thoroughfare Mitigation fee (Future) and Traffic Signal Mitigation fee. The final amount of fees payable is dependent upon information provided by the applicant and will be determined at the time the fees become due and payable.

Unless otherwise provided for by this resolution, all impact fees shall be calculated and collected at the time and in the manner provided in Chapter 3.32 of the City of Moreno Valley Municipal Code or as so provided in the applicable ordinances and resolutions. The City expressly reserves the right to amend the fees and the fee calculations consistent with applicable law.

2. DEDICATIONS, RESERVATIONS, AND OTHER EXACTIONS

The adopted Conditions of Approval for P13-111, incorporated herein by reference, may include dedications, reservations, and exactions pursuant to Government Code Section 66020 (d) (1).

3. CITY RIGHT TO MODIFY/ADJUST; PROTEST LIMITATIONS

The City expressly reserves the right to establish, modify or adjust any fee, dedication, reservation or other exaction to the extent permitted and as authorized by law.

Pursuant to Government Code Section 66020(d)(1), NOTICE IS FURTHER GIVEN that the 90 day period to protest the imposition of any impact fee, dedication, reservation, or other exaction described in this resolution begins on the effective date of this resolution and any such protest must be in a manner that complies with Section 66020(a) and

5
Resolution No. 2014-17
Date Adopted: February 25, 2014

failure to timely follow this procedure will bar any subsequent legal action to attack, review, set aside, void or annul imposition.

The right to protest the fees, dedications, reservations, or other exactions does not apply to planning, zoning, grading, or other similar application processing fees or service fees in connection with this project and it does not apply to any fees, dedication, reservations, or other exactions of which a notice has been given similar to this, nor does it revive challenges to any fees for which the Statute of Limitations has previously expired.

BE IT FURTHER RESOLVED that the City Council HEREBY APPROVES Resolution No. 2014-___ and thereby:

- 1. RECOGNIZES that an Addendum to the original West Ridge Commerce Center project Environmental Impact Report was prepared for Amended Plot Plan P13-111. The Addendum concludes that implementation and operation of the amended plot plan will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the Certified EIR. See copy of the attached Addendum included as Exhibit A; and
- 2. APPROVES P13-111 (Amended Plot Plan), subject to the attached conditions of approval included as Exhibit B.

APPROVED this 25th day of February, 2014.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

6
Resolution No. 2014-17
Date Adopted: February 25, 2014

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2014-17 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 25th day of February, 2014 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

Resolution No. 2014-17⁷
Date Adopted: February 25, 2014

This page intentionally left blank.

Project Orion Distribution Center
Addendum to the Westridge Commerce Center
Certified Environmental Impact Report
(SCH No. 2009101008)



Prepared for:
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552

Prepared by:



November 2013

**Project Orion Distribution Center
Addendum to the Westridge Commerce Center
Certified Environmental Impact Report
(SCH No. 2009101008)**

Prepared for:

The City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552

Prepared By:

Applied Planning, Inc.
5817 Pine Avenue, Suite A
Chino Hills, CA 91709

November 2013

Table of Contents

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION.....	1-1
1.1 Project Summary	1-1
1.2 Background	1-1
1.3 Addendum Overview and Purpose	1-2
1.4 Document Organization.....	1-4
1.5 Conclusions.....	1-5
2.0 PROJECT DESCRIPTION.....	2-1
2.1 Project Location	2-1
2.2 Project Characteristics	2-3
2.3 Circulation/Access/Parking Concept	2-5
2.4 Other Primary Project Site Features	2-7
2.5 Project Objectives	2-9
2.6 Discretionary Approvals Associated with Project	2-10
2.7 Intended Use of This Addendum	2-11
3.0 ENVIRONMENTAL ANALYSIS SUMMARY	3-1
3.1 Introduction	3-1
3.2 Certified EIR Project, Proposed Addendum Project.....	3-2
3.3 Previous Enviro. Documentation, Documents Incorporated by Reference	3-3
3.4 Certified EIR and Addendum Environmental Conclusions.....	3-5
4.0 DETERMINATION.....	4-1
5.0 MITIGATION SUMMARY	5-1
APPENDIX A: Environmental Checklist	
APPENDIX B: Updated Traffic Impact Assessment	
APPENDIX C: Updated Air Quality, Greenhouse Gas, and Health Risk Assessment	
APPENDIX D: 2011 Biological Report & Updated Field Review	

Figures

<u>Figure</u>	<u>Page</u>
2.1-1 Project Location	2-2
2.2-1 Development Concept.....	2-4

Tables

<u>Table</u>	<u>Page</u>
1.2-1 Certified EIR and Addendum Project Development Comparison	1-2
3.2-1 Development Scenario Comparison.....	3-3
3.4-1 Trip Generation Comparison	3-9
3.4-2 Peak Operational Emissions Comparison	3-13
3.4-3 Summary of Health Risks	3-13
3.4-4 Greenhouse Gas Emissions Summary Comparison	3-14
5.1-1 Mitigation & Implementation Summary Matrix	5-2

1.0 Introduction

SECTION 1.0

INTRODUCTION

1.1 PROJECT SUMMARY

The Project Orion considered herein proposes development of up to 825,430 square feet of distribution warehouse uses, including office uses of up to 50,000 square feet within an approximately 52-acre site located within the easterly portion of the City of Moreno Valley.

The Project site is currently entitled pursuant to the Westridge Commerce Center Certified EIR (State Clearinghouse No. 2009101008) approved by the City on September 6, 2011. At the time of the Project approval, no specific tenant for the industrial building had been identified; however, since that time, Project Orion has entered into agreements to construct and operate the facilities previously entitled as the Westridge Commerce Center.

1.2 BACKGROUND

The Project site is currently approved for development subject to the 2011 Westridge Commerce Center development plan (Plot Plan PA08-0097/0098). The 2011 development plan included up to 937,260 square feet of light industrial warehouse/distribution uses, including approximately 14,000 square feet of office uses. The remainder of the 54.66-acre site was planned to provide right-of-way dedications, including Caltrans right-of-way dedications on the south side of State Route 60 (SR-60); and additional easements for local streets, including the future Eucalyptus Avenue to the south, and "Street A" to the east.

For purposes of comparison, development scenarios envisioned under the 2011 Westridge Commerce Center development plan and the Project Orion Distribution Center development plan are summarized in Table 1.2-1.

**Table 1.2-1
Certified EIR and Addendum Project Development Comparison**

Development Scenario	Acreage ¹	Building Area		
		Warehouse/ Distribution	Office	Total
2011 Westridge Commerce Center (Certified EIR Project)	54.66 acres gross (51.68 acres net)	923,260 SF (173 dock doors)	14,000 SF	937,260 SF
Project Orion Distribution Center (Addendum Project)	52 acres gross (49 acres net)	775,430 SF (134 dock doors)	50,000 SF	825,430 SF

Sources: *Westridge Commerce Center Draft EIR* (Applied Planning, Inc.) October 2010; Project Orion Conceptual Development Plans and Tabulations, September 2013.

Note:

¹ The difference in overall acreage between the 2011 Certified EIR and the Addendum Project are due to property line adjustments based on the dedication of public rights-of-way.

1.3 ADDENDUM OVERVIEW AND PURPOSE

Potential environmental impacts of the 2011 Westridge Commerce Center Project were evaluated in the *Westridge Commerce Center EIR*, SCH No. 2009101008, which was certified by the City of Moreno Valley in 2011. The Certified EIR is considered to establish an upper limit, or maximum potential impact scenario for development of the subject site. As substantiated herein, when compared to development contemplated under the 2011 Certified EIR Project, the development proposed under Project Orion (the Addendum Project) would not increase, and in certain instances would reduce, environmental impacts resulting from the currently approved development of the Project site.

The purpose of this Addendum is to define, describe, compare, and contrast potential environmental impacts of the Project Orion Distribution Center in the context of the environmental impacts associated with the 2011 Westridge Commerce Center Development Plan as assessed in the Certified EIR. In so doing, this Addendum substantiates consistency with applicable California Environmental Quality Act (CEQA) *Guidelines* requirements.

More specifically, Section 15164 of the CEQA Guidelines states that an Addendum to an EIR shall be prepared “if some changes or additions [to a Certified EIR] are necessary, but none of the conditions described in Section 15162 calling for preparation of an EIR have occurred.” Section 15162 of the CEQA Guidelines identifies the conditions that require preparation of a subsequent EIR (as opposed to an Addendum or other CEQA documentation), as discussed below.

As presented at Section 15162 of the CEQA Guidelines, when an EIR has been certified for a project, no subsequent EIR shall be prepared for a project unless the lead agency determines, on the basis of substantial evidence, that one or more of the following conditions are met:

- Substantial changes are proposed in the project that would require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of the previously identified significant effects;
- Substantial changes have occurred with respect to the circumstances under which the project is undertaken that will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of the previously identified significant effects;
or
- New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified, shows any of the following:
 - The project will have one or more significant effects not discussed in the previous EIR;
 - Significant effects previously examined will be substantially more severe than identified in the previous EIR;

- Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponent declines to adopt the mitigation measures or alternatives;
- Mitigation measures or alternatives that are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponent declines to adopt the mitigation measures or alternatives.

1.4 DOCUMENT ORGANIZATION

This Addendum is presented in five sections, as follows:

- **Section 1.0, "Introduction,"** provides an overview of the Addendum Project, its context, and environmental documentation applicable to the proposed development.
- **Section 2.0, "Project Description,"** presents the Addendum Project in greater detail.
- **Section 3.0, "Environmental Analysis Summary,"** summarizes the analysis of potential environmental impacts of the Addendum Project. The analysis considers potential effects of the Project for all environmental topics addressed in the Certified EIR. CEQA Guidelines topical issues incorporated pursuant recent Guidelines amendments are also addressed. Please refer also to the Environmental Checklist Form presented at Addendum Appendix A.
- **Section 4.0, "Determination,"** presents the determination regarding the appropriate environmental document for the Project.
- **Section 5.0, "Mitigation Summary,"** contains a table summarizing impacts and mitigation from the 2011 Certified EIR. Unless otherwise noted, mitigation

previously required under the 2011 EIR is also required of the Addendum Project.

1.5 CONCLUSIONS

This Addendum substantiates that the analysis presented in the Certified EIR is sufficient to satisfy CEQA requirements for the adoption of the Project Orion Distribution Center. That is, implementation and operation of the Project Orion development plan described and evaluated herein will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the Certified EIR.

The environmental assessment of the Addendum Project does not require any major revision of the Certified EIR, nor will the Addendum Project result in conditions that would require preparation of a Subsequent or Supplemental EIR as described in the CEQA Guidelines.

2.0 Project Description

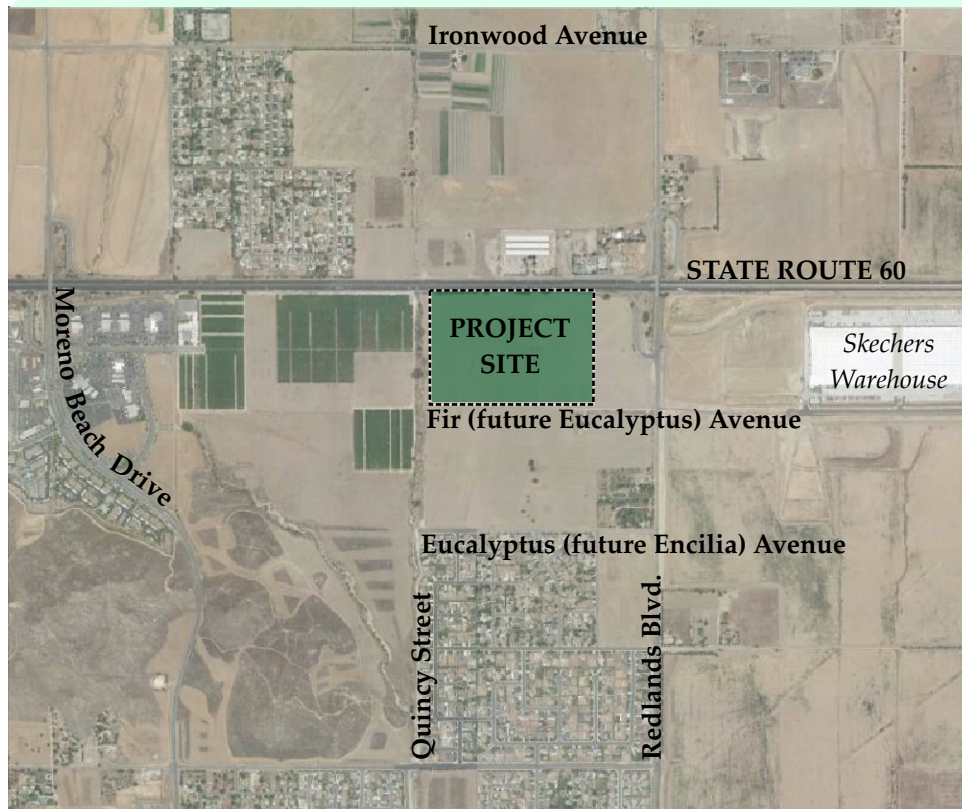
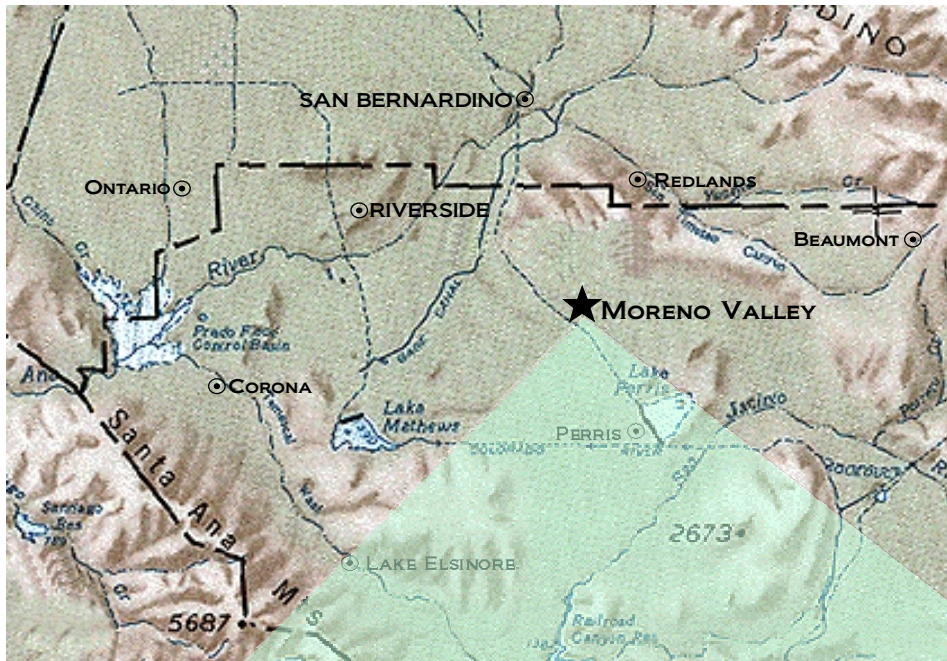
SECTION 2.0

PROJECT DESCRIPTION

2.1 PROJECT LOCATION

The approximately 52-acre Project site is located in the eastern portion of the City of Moreno Valley, near the State Route 60 (SR-60)/Redlands Boulevard interchange. The site is bounded by SR-60 to the north, Fir (future Eucalyptus) Avenue to the south, the Quincy Channel to the west, and vacant land designated for commercial use between the Project's east boundary and Redlands Boulevard.

The City of Moreno Valley is located in the north-central portion of Riverside County, and in the central portion of the "Inland Empire" region, which is comprised of the metropolitan Riverside/San Bernardino County area to the west, and the Pass Area and Coachella Valley to the east. Interstate 215 transects the City from north to south, and intersects with SR-60 approximately 7.5 miles to the west of the Project site. To the east of the Project site, SR-60 connects with Interstate 10. Regional and vicinity locations of the Project site are presented in Figure 2.1-1.



NOT TO SCALE
Source: Google Earth; Applied Planning, Inc.

2.2 PROJECT CHARACTERISTICS

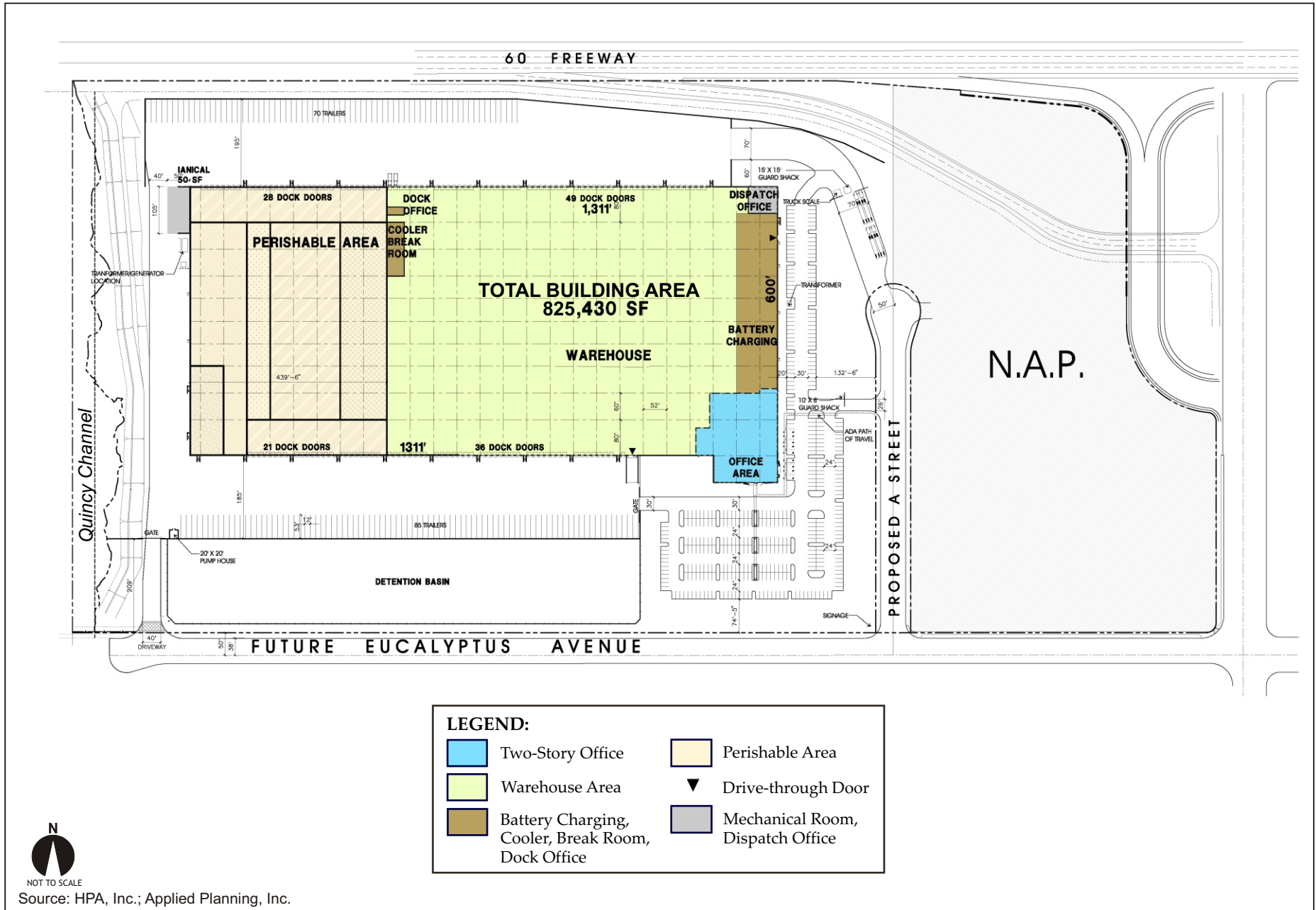
The Project Orion Distribution Center is proposed by Aldi, Inc., a worldwide grocery retailer. The Project would involve the construction of 825,430 square feet of distribution warehouse uses to support up to 150 future grocery stores within the southern California region. Approximately 50,000 square feet of office area would be provided, the majority of which would be constructed in a two-story configuration at the southeastern corner of the building.

The western portion of the building, containing 263,800 square feet and 49 dock doors, would accommodate storage and distribution of refrigerated and frozen perishable food products, while the remainder of the warehouse area and an additional 85 dock doors would be devoted to the storage and distribution of non-refrigerated goods. Maintenance and operational activities will also be housed within the eastern portion of the building. Electrical outlets will be provided adjacent to every dock door, in order to ensure that truck auxiliary power units and/or refrigeration mechanisms are able to continue operations without excessive idling, in compliance with current restrictions on diesel delivery truck idling mandated by the California Air Review Board (CARB).¹

The majority of the facility's operations would occur between 6:00 a.m. and 11:00 p.m., seven days a week. A limited maintenance and operations staff would be at work onsite 24 hours a day.

Figure 2.2-1 presents the conceptual site plan for the Project Orion Distribution Center development. It should be noted that, similar to the Certified EIR Project, the Project Orion development has been configured to avoid sensitive biological areas associated with the Quincy Channel to the west, and to accommodate necessary supporting on-site improvements, including but not limited to: roadways, parking, landscaping, and stormwater management features, as discussed subsequently within this Section.

¹ CARB requirements specify that diesel delivery trucks shall not idle for more than three (3) minutes. This requirement has been incorporated in Certified EIR Mitigation Measure 4.3.10, which would be fully applicable to the Addendum Project. Please refer also to Addendum Section 5, "Mitigation Summary."



NOT TO SCALE
 Source: HPA, Inc.; Applied Planning, Inc.



Figure 2.2-1
 Conceptual Project Site Plan

2.3 CIRCULATION/ACCESS/PARKING CONCEPT

2.3.1 Project Site Access

Access to the Project Orion Distribution Center will be provided from Fir (future Eucalyptus) Avenue, which forms the site's southerly boundary. Regional access to the Project is provided via the SR-60/Redlands Boulevard interchange, located approximately one-quarter mile northeasterly of the site. The Addendum Project has been designed to accommodate future interchange improvements planned by Caltrans. As with the Certified EIR project, interchange improvements will be constructed by Caltrans, and are not a part of the Addendum Project.

Circulation system improvements to be implemented by the Addendum Project prior to issuance of the first Certificate of Occupancy, as required under the 2011 Certified EIR, are summarized below:

- Fir (future Eucalyptus) Avenue will be constructed to its ultimate half-section width (one-half of 104-foot right-of-way section improvements pursuant to City Standard No. 104B) as an arterial roadway in the vicinity of the westerly Project boundary, extending to Redlands Boulevard to the east. Signalization and turn lane improvements will be provided at the intersection of Fir (future Eucalyptus) Avenue at Redlands Boulevard consistent with City standards and requirements. At the westerly terminus of Fir (future Eucalyptus) Avenue, modified cul-de-sac design improvements will be provided to allow for vehicle turnaround.
- An auxiliary lane along the westerly side of Redlands Boulevard will be constructed between Fir (future Eucalyptus) Avenue and the SR-60 eastbound off-ramps.
- The proposed public street (Street "A") at the Project's easterly boundary will be constructed to its full width (78-foot right-of-way section improvements pursuant to City Standard No. 106) as an industrial collector roadway from the proposed northern terminus of the road to Fir (future Eucalyptus) Avenue in

conjunction with development. Full improvements will also be provided at the cul-de-sac “bulb” to allow for vehicle turnaround.

- Driveway access will be provided consistent with City of Moreno Valley design standards. All driveway access points will remain open and accessible during business hours.
- Consistent with the City of Moreno Valley Master Plan of Trails, a proposed trail is shown along the Project frontage on the north side of Fir (future Eucalyptus) Avenue which will join with the proposed future trail on Redlands Boulevard. Pursuant to the City of Moreno Valley Bikeway Plan, a Class I bikeway is planned on the east side of Redlands Boulevard within the vicinity of the Addendum Project.

2.3.2 Internal Circulation

The on-site circulation system concept is designed to provide safe and efficient access, including appropriate emergency response access, to all building and Addendum Project site areas. Final design of the on-site circulation system will conform to City’s Planning Department, Building and Safety Department, and Fire Services Department requirements.

2.3.3 Parking

The City of Moreno Valley Municipal Code specifies a parking ratio of one parking space for each 1,000 square feet of gross floor area in a warehouse/distribution building for the first 20,000 square feet, one additional space for each 2,000 square feet of floor area within the second 20,000 square feet, and one additional space for each 4,000 square feet of floor area for areas in excess of the initial 40,000 square feet. Additionally, for office uses, one parking space is required for every 250 square feet. Pursuant to City parking requirements, the Project would be required to provide an estimated 408 parking spaces. The Project Orion Site Plan Concept provides 546 parking spaces, including 392 standard and handicap parking spaces, and 154 trailer spaces. No off-site parking is proposed, nor would it be required. Final design of parking areas will be as

reviewed and approved by the City through the City's site plan and building permit review processes.

2.4 OTHER PRIMARY PROJECT SITE FEATURES

The Project Orion Distribution Center would be subject to the same development requirements as those identified by the Certified EIR, including those related to signage, lighting, utility connections, energy efficiency and pedestrian trail construction. The following paragraphs provide a summary of notable, site-specific development features of the Certified EIR project that would also be required of the Addendum Project.

2.4.1 Landscape Screening/Fencing

Perimeter and internal landscaping will be provided consistent with provisions of the 2011 Westridge Commerce Center Certified EIR and the City's Zoning Code Section 9.17, "Landscape Requirements." In general, the landscaping emphasizes perimeter screening of the Project site by providing substantial tree and vegetative cover and shrubs along the property edges. Internal to the Project site, landscaping elements act to enhance structures, provide shade and visual interest, and define entry/access points. Consistent with provisions of the Certified EIR, the use of invasive nonnative plant species within 150 feet of the Quincy Channel would be prohibited. All landscape elements will be provided consistent with water use efficiency requirements of the City, as required under Municipal Zoning Code Section 9.17.090.

The Addendum Project's loading areas will be screened from view on the north and the northernmost portion of the east side by 8-foot high masonry screenwalls; and on the south by a 14-foot high masonry screenwall. Walls will be painted to match the building, with adjacent planted vines that will ultimately cover the walls and provide a landscaped screen. Eight-foot high wrought iron fencing is proposed to secure the remainder of the site, including the Project's proposed stormwater detention areas. Vines will be planted adjacent to Project fencing, creating a landscaped screen at maturity.

2.4.2 Stormwater Management Detention Basin

Storm water runoff from the developed Project site will be detained in an on-site detention basin and directed in a controlled manner to improved storm drain systems currently under design at the intersection of Redlands Boulevard and Fir (future Eucalyptus) Avenue. The Project's detention basin will be designed consistent with City of Moreno Valley and Santa Ana Regional Water Quality Control Board requirements, acting to contain and control the volume and rate of stormwater discharges, provide infiltration to remove sediment and other pollutants, and allow for groundwater recharge.

2.4.3 Quincy Channel Improvements

The Quincy Channel, which runs in a north-south direction along the western boundary of the Project site, is currently an unimproved, ephemeral drainage area which enters the site through three five-foot diameter culverts located under SR-60. This natural stream bed is subject to the jurisdiction of the Army Corps of Engineers (Corps) and the California Department of Fish and Game (CDFG). As required under the 2011 Certified EIR, a scour wall will be constructed by the Project to prevent further erosion of the Quincy Channel. The scour wall will be constructed outside of Corps/CDFG jurisdictional areas.

2.4.4 Waterline Improvements

A waterline to serve the Project has been required by Eastern Municipal Water District (EMWD). The 24-inch waterline will extend westerly of the site boundaries to connect with an existing waterline in Fir (future Eucalyptus) Avenue. This connection is required to provide adequate fire flow water pressures to the Project site. Since Fir (future Eucalyptus) Avenue does not yet exist west of Quincy Channel, the property owner has granted an easement to EMWD for the purposes of installation. Construction will involve clearing the 40-foot easement, trenching, and installing the waterline. Ultimately, the easement will be within the dedicated right of way of Fir (future Eucalyptus) Avenue. East of Quincy Channel, the waterline would be installed concurrent with the other Fir (future Eucalyptus) Avenue improvements required for the Project.

The waterline would connect to an existing line located 30 feet east of the intersection of Redlands Boulevard and Fir (future Eucalyptus) Avenue and proceed westerly within the Fir (future Eucalyptus) Avenue right of way. Before reaching the Quincy Channel, the line would be constructed using “jack and bore” technology to completely avoid any impacts to the streambed area. A “jack and bore” operation involves digging two pits (approximately 20 feet deep) on opposite sides of the channel. An auger is then used to create a horizontal bore and a pipe sleeve is inserted into the bored hole. The 24-inch line is placed within the 32-inch sleeve. The entry pit would be dug 140 feet west of the centerline of Quincy Street and the receiving pit would be created 40 feet west of the centerline of Quincy Street. The pipe would be located approximately 9 feet below the Quincy Channel. Both pits will be located well beyond the limits of Quincy Channel. West of the receiving pit, the line will emerge within the Fir (future Eucalyptus) Avenue right-of-way and will follow the future right-of-way alignment until it connects to the existing 24-inch waterline that currently terminates approximately 300 feet east of Pettit Street.

2.5 PROJECT OBJECTIVES

Objectives of the Project Orion Distribution Center are coincidental with those identified for the Certified EIR. These objectives include:

- Transition the Project site from its currently undeveloped state to a productive use;
- Provide jobs-producing, light industrial uses to the City and local community; and
- Capitalize on the site’s regional freeway access; and
- Increase economic benefits to the City through increased job creation.

2.6 DISCRETIONARY APPROVALS ASSOCIATED WITH PROJECT

CEQA Section 15124 states in pertinent part that if “a public agency must make more than one decision on a Project, all its decisions subject to CEQA should be listed . . .” Requested decisions, or discretionary actions, necessary to realize the Project include, but may not be limited to the following:

- Adoption of this Addendum to the 2011 Westridge Commerce Center Certified EIR (SCH No. 2009101008);
- Approval of an amended plot plan reflecting the Addendum Project;
- Issuance of various construction, grading, and encroachment permits allowing implementation of the Project facilities, including but not limited to the following:
 - Permitting and Consultation through the California Department of Fish and Game (CDFG), to include a Lake and Streambed Alteration Agreement (LSA) addressing potential CDFG jurisdictional area impacts resulting from the Project; and consultation regarding the possible relocation of resident burrowing owls (if burrowing owls are determined to be present on the subject site during required pre-construction surveys).
 - CWA Section 404 and Army Corps of Engineers (ACOE) permitting will be required for Project activities affecting off-site ACOE jurisdictional areas. CWA Section 404 may also be required should the Project riparian habitat mitigation plan involve or require use of off-site federal jurisdictional areas;
 - Permitting required by/through the CWA Section 401 and Santa Ana Regional Water Quality Control Board (SARWQCB) pursuant to requirements of the National Pollutant Discharge Elimination System (NPDES) Permit;

- Permitting by/through the Riverside County Flood Control and Water Conservation District in regard to water conservation and acceptance of various flood control facilities;
- Permitting required by/through the South Coast Air Quality Management District (SCAQMD) for certain equipment to be temporarily employed within the Project during construction, and/or permanently installed and used over the life of the Project; and
- Permitting by/through the California Department of Transportation (Caltrans) for improvements within or that may affect Caltrans rights-of-way.

2.7 INTENDED USE OF THIS ADDENDUM

This Addendum addresses the potential environmental effects of the implementation and operation of the Project Orion Distribution Center in relation to impacts identified in the Certified EIR. The City of Moreno Valley is the Lead Agency for the purposes of CEQA because it has the principal responsibility and authority for deciding whether or not to approve the Addendum Project, and how it would be implemented if approved. As the Lead Agency, the City is also responsible for preparing the environmental documentation needed for the adoption of the Project Orion Distribution Center in compliance with CEQA.

The Lead Agency will employ this Addendum in its evaluation of potential environmental impacts resulting from, or associated with, approval and implementation of the Project Orion Distribution Center, to include potential effects of the development allowed under the Project Orion's component elements. It is anticipated that this Addendum may also be employed by Responsible Agencies, e.g., the Air Quality Management District(s), Regional Water Quality Control Board(s), *et al.*, for their related or dependent environmental analyses.

It is acknowledged that Project plans and development concepts identified herein are subject to refinement as the Addendum Project is further defined. Recognizing the potential for these future minor alterations to the Project, this Addendum, in all instances, evaluates likely maximum impact scenarios that would account for these minor alterations. Refinements and/or minor revisions to development proposals do not typically warrant modified or revised environmental documentation. Notwithstanding, at the discretion and direction of the City, substantive modifications to the Addendum Project described herein may warrant additional environmental evaluation.

3.0 Environmental Analysis Summary

SECTION 3.0

ENVIRONMENTAL ANALYSIS SUMMARY

3.1 INTRODUCTION

The following discussions summarize the potentially significant environmental impacts of the development allowed under the Project Orion Distribution Center within the context of the environmental analysis presented in the Certified EIR for the 2011 Westridge Commerce Center.

Development of the Project site pursuant to the design guidelines, development standards, and performance standards of the City of Moreno Valley, together with the mitigation measures incorporated in the Certified EIR and carried forward in this Addendum, along with Conditions of Approval as may be imposed by the City, act to ensure that development of the Project Orion Distribution Center would not result in environmental impacts not previously identified and addressed in the Certified EIR, and further, that development plans and activities do not otherwise conflict with, or obstruct City goals and policies.

Included in this Section is a summary comparison of development and entitlements proposed by the Project Orion Distribution Center in relation to development previously approved under the 2011 Westridge Commerce Center Certified EIR. The environmental analysis summary is focused on the CEQA topics under which the Certified EIR found that potentially significant impacts requiring mitigation would occur. These include traffic, air quality, noise, water supply, cultural resources, biological resources, and aesthetics. All other environmental topics are addressed in the Environmental Checklist (Addendum Appendix A).

The discussions that follow support the determination that the approval of the Project Orion Distribution Center would not result in any new, different, or substantially increased impacts than those that were considered and addressed in the Certified EIR; and that substantive environmental analysis beyond that presented here is not required.

3.2 CERTIFIED EIR PROJECT, PROPOSED ADDENDUM PROJECT

For purposes of comparison, development scenarios envisioned under the 2011 Westridge Commerce Center development plan and the Project Orion Distribution Center development plan are discussed in the following paragraphs, and summarized in Table 3.2-1.

3.2.1 Certified EIR Project

The 2011 Certified EIR Project included up to 937,260 square feet of light industrial warehouse/distribution uses, including approximately 14,000 square feet of office uses. The remainder of the 54.66-acre site was planned to provide right-of-way dedications, onsite landscaping, parking, and stormwater detention areas.

3.2.2 Proposed Addendum Project

Under the Project Orion Distribution Center, the Project site will accommodate similar light industrial warehouse/distribution uses to those permitted under the 2011 Certified EIR. As seen in Table 3.2-1, the overall building area would be reduced by 111,830 square feet; however, the areas designated for office use within the warehouse would be increased by 36,000 square feet. Additionally, the western portion of the building (263,800 square feet and 49 dock doors) would be designed to accommodate the storage and distribution of refrigerated and frozen perishable food products. The remainder of the warehouse area (approximately 505,380 square feet and 85 dock doors) would accommodate non-refrigerated storage and distribution uses, similar to those considered by the 2011 Certified EIR.

Under either the Proposed Addendum Project or the Certified EIR, development would be appropriately set back from the Quincy Channel to avoid conflicts with sensitive biological resource/habitat areas. Development under the Project Orion Distribution

Center would require the construction of all off-site roadway and drainage-related improvements required under the 2011 Certified EIR. Additional detail regarding these improvements is provided in the preceding Section 2.0, "Project Description," and in Section 5.0, "Mitigation Summary."

This Addendum document defines, describes, compares, and contrasts potential environmental impacts of the Addendum Project in the context of the environmental impacts associated with the development plan assessed in the Certified EIR. For purposes of comparison, development scenarios envisioned under the 2011 Westridge Commerce Center project and the Project Orion Distribution Center are summarized at Table 3.2-1.

**Table 3.2-1
Development Scenario Comparison**

Development Scenario	Acreage ¹	Building Area		
		Warehouse/ Distribution	Office	Total
2011 Westridge Commerce Center (Certified EIR Project)	54.66 acres gross (51.68 acres net)	937,260 SF (173 dock doors)	14,000 SF	937,260 SF
Project Orion Distribution Center (Addendum Project)	52 acres gross (49 acres net)	775,430 SF (134 dock doors)	50,000	825,430 SF

Sources: *Westridge Commerce Center Draft EIR* (Applied Planning, Inc.) October 2010; Project Orion Conceptual Development Plans and Tabulations, September 2013.

Note:

¹ The difference in overall acreage between the 2011 Certified EIR and the Addendum Project are due to property line adjustments based on the dedication of public rights-of-way.

3.3 PREVIOUS ENVIRONMENTAL DOCUMENTATION, DOCUMENTS INCORPORATED BY REFERENCE

Section 15150 of the State *CEQA Guidelines* permits and encourages that an environmental document incorporate by reference other documents that provide relevant data. The documents outlined in this Section are hereby incorporated by reference, and the pertinent material is summarized throughout this Addendum. All documents incorporated by reference are available through the City of Moreno Valley Community Development Department, Planning Division.

- **Westridge Commerce Center Certified EIR (includes Draft EIR dated October 2010 and Final EIR dated April 2011), approved September 6, 2011 (State Clearinghouse No. 2009101008).** The core and substantive environmental analysis of the Westridge Commerce Center project is found in the 2011 Certified EIR. The Certified EIR comprehensively addressed potential environmental impacts resulting from the development of up 937,260 square feet of light industrial warehouse/distribution uses within the 54.66-acre project site. Mitigation measures were incorporated in the Draft EIR, and a Mitigation Monitoring Program was provided as part of the Final EIR.
- **City of Moreno Valley General Plan and General Plan EIR** The current City of Moreno Valley General Plan, initially adopted in 1988 and updated in 2006, provides a framework for the physical development of the City, and forms the basis of decisions concerning the development of property. To this end, the General Plan establishes City land use and development policies, identifies planned land uses, and supporting infrastructure systems. State-mandated Elements addressed in the General Plan include the Community Development Element; the Parks, Recreation and Open Space Element; the Circulation Element; Safety Element; Conservation Element; and Housing Element. Development within the General Plan Area will be shaped by the General Plan's Goals, Objectives, Policies and Programs, which are integral to each of the General Plan Elements. The 2006 General Plan and General Plan Update EIR documents contain background information employed in this Addendum.

3.4 CERTIFIED EIR AND ADDENDUM ENVIRONMENTAL CONCLUSIONS

3.4.1 Overview

The Certified EIR incorporated mitigation measures for potentially significant impacts that would result from the development allowed under the Westridge Commerce Center project. However, even after the application of all feasible mitigation measures, that development was found to result in significant residual impacts affecting traffic, air quality, noise and aesthetics.

Consistent with *CEQA Guidelines* Section 15093 requirements, as part of the approval process, the Westridge Commerce Center EIR was certified by the City, including the adoption of a statement of Facts, Findings, and Overriding Considerations which acknowledged the significant impacts that would result from the approval of the Westridge Commerce Center project. This same statement of Facts, Findings, and Overriding Considerations addresses significant impacts that could result from the development allowed by the Project Orion Distribution Center. That is, the analysis presented within this Addendum demonstrates that the approval of the Project Orion Distribution Center would not result in new significant impacts, or substantively increased or different impacts than would result from the development assessed under the Certified EIR.

3.4.2 Basis for Addendum

For each environmental topic presented in the Certified EIR, the following summary analyses (and the expanded discussions presented at Appendix A to this Addendum) substantiate that:

- No substantial changes are proposed which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- No substantial changes in circumstances have occurred which will require major revisions to the Certified EIR due to the involvement of new significant

environmental effects or a substantial increase in the severity of previously identified significant effects;

- No new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the EIR was certified, shows any of the following:
 - The approval of the Project Orion Distribution Center would result in any significant effects not discussed in the Certified EIR (it would not);
 - Significant effects previously examined would be substantially more severe than shown in the Certified EIR (they would not);
 - Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the Project proponents decline to adopt the mitigation measure or alternative (no previous mitigation or alternatives are declined); and
 - Mitigation measures or alternatives which are considerably different from those analyzed in the Certified EIR would substantially reduce one or more significant effects on the environment, but the Project proponents decline to adopt the mitigation measure or alternative (no new mitigation is declined) .

As provided for under *CEQA Guidelines* 15162, this Addendum has therefore been prepared, satisfying CEQA environmental analysis and documentation requirements for the approval of the Project Orion Distribution Center.

3.4.3 Environmental Issues-Comparative Summaries

The following discussions summarize comparative impacts of the 2011 Westridge Commerce Center project (Certified EIR project) and the Project Orion Distribution Center (Addendum Project). Sequencing of topical issues here parallels their presentation within the Certified EIR.

3.4.3.1 Traffic

The Certified EIR discussion of traffic and circulation (Certified EIR Section 4.2) indicates that even with the implementation of mitigation, certain traffic and circulation impacts of the development permitted by the Westridge Commerce Center project would remain cumulatively significant. Although the Project is required to construct or pay required fees toward the completion of all necessary Study Area circulation system improvements, at the significantly-impacted locations listed below, the Project cannot feasibly construct the required improvements. In these instances, because the payment of fees would not assure the timely completion of required improvements, impacts were determined significant and unavoidable. In approving the Westridge Commerce Center project, the City adopted a Statement of Overriding Considerations pursuant to CEQA Guidelines § 15091, et seq., recognizing these significant traffic and circulation impacts.

Cumulatively Significant Traffic/Circulation Impacts

Pending completion of required improvements, the Project's incremental contributions to cumulative traffic impacts at or affecting the following roadway facilities are considered cumulatively significant and unavoidable.

Intersections Affected under Opening Year Conditions:

- *Moreno Beach Drive at SR-60 Eastbound Ramps;*
- *Redlands Boulevard at SR-60 Westbound Ramps;*
- *Redlands Boulevard at SR-60 Eastbound Ramps*
- *Redlands Boulevard at Fir (future Eucalyptus) Avenue; and*
- *Quincy Street at Fir (future Eucalyptus) Avenue (new intersection).*

Roadway Segments Affected under Opening Year Conditions:

- *Redlands Boulevard from north of the SR-60 Westbound ramps to south of Eucalyptus (future Encilia) Avenue;*
- *Quincy Street south of Fir (future Eucalyptus) Avenue (future street); and*
- *Fir (future Eucalyptus) Avenue from west of Quincy Street and east of Redlands Boulevard (future street).*

Intersections Affected under General Plan Buildout Conditions:

- *Moreno Beach Drive at SR-60 Eastbound Ramps;*
- *Redlands Boulevard at SR-60 Westbound Ramps;*
- *Redlands Boulevard at SR-60 Eastbound Ramps;*
- *Redlands Boulevard at Fir (future Eucalyptus) Avenue;*
- *Quincy Street at Fir (future Eucalyptus) Avenue (new intersection);*
- *Moreno Beach Drive at Fir (future Eucalyptus) Avenue (new intersection);*
- *Redlands Boulevard at Eucalyptus (future Encilia) Avenue (new intersection); and*
- *Redlands Boulevard at Cottonwood Avenue (new intersection).*

The Project will also contribute additional traffic to Study Area freeway mainline segments that under General Plan Buildout conditions (with or without the Project) are projected to operate under deficient (LOS "F") conditions. While it is foreseeable that improvements to SR-60 in the Project vicinity will be completed prior to General Plan Buildout, because timely completion of these improvements cannot be definitively assured, the contribution of additional Project traffic to existing freeway mainline segment deficiencies is recognized as cumulatively significant and unavoidable impact.

As indicated in the Traffic Impact Analysis prepared for the Project Orion Distribution Center (Addendum Appendix B), total average daily traffic (ADT) generated by the Project is anticipated to be approximately 25 percent less than that anticipated under the Certified EIR. Please refer to the following Table 3.4-1.

Table 3.4-1
Trip Generation Comparison
Certified EIR Project vs. Addendum Project

Development Scenario	Vehicle Type	AM Peak Hour	PM Peak Hour	Daily Total
2011 Certified EIR (Westridge Commerce Center)	Cars	47	57	729
	Trucks (PCE)	143	169	2,201
	Total (PCE)	191	226	2,930
Proposed Addendum Project (Project Orion Distribution Center)	Cars	37	39	400
	Trucks (PCE)	105	45	1,800
	Total (PCE)	142	84	2,200
Comparative Increase (Decrease)	Cars	(10)	(18)	(329)
	Trucks (PCE)	(38)	(124)	(401)
	Total (PCE)	(49)	(142)	(730)

Sources: *Westridge Commerce Center Draft EIR* (Applied Planning, Inc.) October 2010; *Westridge Commerce Center Traffic Impact Assessment Update* (Urban Crossroads, Inc.) September 13, 2013.

Under the development assessed by the Certified EIR or the proposed Addendum Project, traffic impact mitigation and Conditions of Approval require traffic improvements (constructed as part of the development and/or programmed and funded on a fair share basis) necessary to ensure circulation system operating efficiencies. On this basis, since the Project trip generation does not exceed the trip generation under the development allowed by the Certified EIR, and trip distribution characteristics under all scenarios are substantively unchanged, the traffic impacts of the Project would not be substantially greater, or different, than those identified for the development allowed by the Certified EIR.

Other CEQA transportation/traffic considerations (potential to result in inadequate emergency access; potential to conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities; and potential to result in a change in air traffic patterns, resulting in substantial safety risks) were determined to be less-than-significant for the development permitted under the Certified EIR. That is, all circulation system designs and improvements would comply with City engineering requirements, and no transportation/traffic design hazards are proposed or are

anticipated. Similarly, emergency access will be provided and maintained consistent with City and Fire Department requirements, and was demonstrated to be adequate even under existing conditions, prior to the development of an overcrossing at Quincy Channel. Current Project design concepts provide appropriate pedestrian walkways and/or trails, and the Project will accommodate bike racks/secured bicycle storage consistent with City requirements and related air quality mitigation measures. Bus routes and transit facilities serving the Project site and surrounding areas will be implemented by transit service providers consistent with ridership demands. The Project does not propose elements or operations that would conflict with alternative transportation modes.

Conclusion:

The Project would not result in new, additional, or different traffic/transportation impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary. Please refer also to the *Westridge Traffic Impact Assessment Update* (Urban Crossroads, Inc.) September 13, 2013 (Addendum Appendix B).

3.4.3.2 Air Quality

Overview

The Certified EIR in Section 4.3, "Air Quality," addresses regional and local air quality issues including construction-source and operational-source emissions resulting from, or generated by, the Westridge Commerce Center project. The Certified EIR analysis concluded that that even after the application of mitigation, implementation of the Westridge Commerce Center project would result in temporary exceedances of regional thresholds for volatile organic compounds (VOC) and nitrogen oxide (NOx) emissions, and localized significance threshold (LST) exceedances for particulate matter. Mitigated operational-source emissions of ROC and NOx would also exceed applicable SCAQMD thresholds. Mitigation measures incorporated in the Certified EIR which would act to reduce, but not eliminate, the significance of these impacts. In approving the Westridge Commerce Center project, the City adopted a Statement of Overriding Considerations

pursuant to CEQA Guidelines § 15091, et seq., recognizing these significant air quality impacts.

Construction-Source Emissions

The Certified EIR analysis found that maximum construction-source emissions of carbon monoxide (CO) and sulfur oxides (SO_x) would not exceed applicable SCAQMD thresholds. However, even after the application of all feasible mitigation measures, construction of the Project will result in temporary exceedances of regional thresholds for VOC and NO_x emissions and LST exceedances for PM₁₀ (at receptor locations 71 meters [233 feet] or nearer to construction activities) and PM_{2.5} (at receptor locations 35 meters [115 feet] or nearer to construction activities).

It is assumed that construction activities associated with development allowed by the Project Orion Distribution Center would parallel the scope of activities reflected in the Certified EIR analysis, and would result in comparable construction-source emissions impacts. It is more likely however, that based on the Addendum Project's reduction in building area and the implementation of current construction equipment emissions controls requirements, the Project would result in comparative reductions in construction-source emissions.

Conclusion:

Based on the preceding, construction-source emissions resulting from the Project would not result in new, additional, or different construction emissions impacts than were considered and addressed in the Certified EIR. As such, potential construction-source emissions impacts associated with the Project are adequately addressed within the Certified EIR, and no changes or additions to the analysis are necessary. The City's previous Statement of Overriding Considerations addresses any significant construction-source air quality impacts that could result from the Project Orion Distribution Center.

Operational-Source Emissions

Operational-source air quality impacts based on development allowed by the Westridge Commerce Center project were found to be significant within the Certified EIR, which concluded that even after mitigation, impacts for emissions of volatile organic compounds (VOC) and nitrogen oxides (NO_x) would exceed applicable thresholds. Additionally, a significant cumulative impact was identified based on the Project's potential to contribute ozone precursors (VOC and NO_x) in a region that is in non-attainment for ozone. Operational emissions would be generated from the following sources: vehicle trips, including tailpipe exhaust and fugitive dust related to vehicular travel; combustion associated with natural gas and electricity; landscape maintenance equipment; architectural coatings (e.g., paints); and emissions from consumer products (e.g., cleaning solutions).

As detailed in the updated Air Quality Impact Assessment (Addendum Appendix C), the development allowed by the Project Orion Distribution Center would result in an overall reduction in air pollutant emissions, greenhouse gas (GHG) emissions, and health risk impacts related to Diesel Particulate Matter when compared to emissions generated under the development assessed by the Certified EIR. A comparison of peak daily operational air pollutant emissions for the Certified EIR project and the Addendum Project is presented at Table 3.4-2. Commensurate reductions in health risk impacts related to the generation of Diesel Particulate Matter (DPM) and GHG emissions are reflected in Tables 3.4-3 and 3.4-4, respectively. Please refer also to the Environmental Checklist discussions presented at Appendix A to this Addendum (*See*: Checklist Items 3, "Air Quality," and 7, "Greenhouse Gas Emissions"); and the updated Westridge Commerce Center Air Quality, Greenhouse Gas and Health Risk Impact Assessment, presented at Addendum Appendix C.

Table 3.4-2
Peak Operational Emissions Comparison¹
Certified EIR Project vs. Addendum Project (Pounds per Day)

Operational Activities	VOC	NOx	CO	SO _x	PM ₁₀	PM _{2.5}
2011 Certified EIR Analysis (Westridge Commerce Center)						
Area Source Emissions ²	24.60	0.54	0.55	3.35e-3	0.04	0.04
Mobile Emissions ³	105.57	475.58	329.37	1.20	59.39	22.47
<i>Maximum Daily Emissions</i>	<i>130.16</i>	<i>476.12</i>	<i>329.92</i>	<i>1.20</i>	<i>59.43</i>	<i>22.51</i>
Proposed Addendum Project (Project Orion Distribution Center)						
Area Source Emissions ¹	25.75	3.99	3.49	0.02	0.30	0.30
Mobile Emissions ²	81.00	439.31	262.43	1.02	42.16	16.89
<i>Maximum Daily Emissions</i>	<i>106.75</i>	<i>443.30</i>	<i>265.93</i>	<i>1.04</i>	<i>42.47</i>	<i>17.20</i>
<i>Variance in Maximum Daily Emissions</i>	<i>(23.41)</i>	<i>(32.82)</i>	<i>(63.99)</i>	<i>(0.16)</i>	<i>(16.96)</i>	<i>(5.31)</i>

Sources: Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment (Urban Crossroads, Inc.), September 16, 2013.

Notes:

¹ Reflects summer or winter (whichever greatest) scenarios using currently required CalEEMod 2013 methodologies.

² Includes emissions of natural gas consumption, emissions of landscape maintenance equipment, and architectural coatings emissions.

³ Includes emissions from vehicles and fugitive dust related to vehicular travel.

Table 3.4-3
Summary of Health Risks¹
Certified EIR Project vs. Addendum Project (Risk per Million)

Analysis Scenario	Certified EIR Project (Westridge Commerce Center)	Proposed Addendum Project (Project Orion Distribution Center)	Variance
Without Mitigation			
Maximum Exposed Sensitive Receptor	10.1	6.1	<i>(4.0)</i>
Maximum Exposed Worker Receptor	3.1	1.2	<i>(1.9)</i>
With Mitigation			
Maximum Exposed Sensitive Receptor	6.9	5.6	<i>(1.3)</i>
Maximum Exposed Worker Receptor	2.0	1.1	<i>(0.9)</i>

Source: Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment (Urban Crossroads, Inc.), September 16, 2013.

Notes:

¹ The SCAQMD CEQA Air Quality Handbook (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a health risk assessment shows an increased risk of greater than ten in one million.

Table 3.4-4
GHG Emissions Summary Comparison
Certified EIR Project vs. Addendum Project (Metric Tons of CO₂e per Year)

Emission Source	CO ₂	CH ₄	N ₂ o	CO ₂ e
2011 Certified EIR Project (Westridge Commerce Center)				
Annual construction-related emissions ¹	174.16	0.0104	0.522	338.32
Natural Gas	141.10	0.02	0.022	148.53
Landscaping	0.51	--	--	0.51
Mobile Sources	27,724.82	0.35	0.41	27,858.08
Electricity Energy	732.09	0.008	0.03	741.71
Solid Waste Generation	--	22.60	--	474.67
Water Usage	39.63	0.002	0.0005	39.81
Refrigerant Leakage	--	--	--	401.75
<i>Subtotal Transportation Sources</i>				27,858.08
<i>Subtotal Non-Transportation Sources</i>				2,145.31
<i>Total CO₂e</i>				30,003.39
Proposed Addendum Project (Project Orion Distribution Center)				
Annual construction-related emissions ²	174.16	0.0104	0.522	338.32
Natural Gas	792.32	0.02	0.02	797.14
Landscaping	--	--	--	--
Mobile Sources	16,783.54	0.37	--	16,787.99
Electricity Energy	3,360.50	0.20	0.03	3,644.71
Solid Waste Generation	152.73	89.96	--	229.47
Water Usage	23.41	0.17	3.81e-3	27.83
Refrigerant Leakage	--	--	--	343.10
<i>Subtotal Transportation Sources</i>				16,787.99
<i>Subtotal Non-Transportation Sources</i>				5,380.57
<i>Total CO₂e</i>				22,168.56
Variance in Annual GHG Emissions				(7,834.83)

Sources: Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment (Urban Crossroads, Inc.) September 16, 2013.

Notes:

¹ Amortized over 30 years.

² Emissions previously quantified for the Westridge Commerce Center were utilized in this assessment, amortized over 30 years.

Conclusion:

Based on the preceding, the Addendum Project would not result in new significant operational-source air pollutant emissions, greenhouse gas emissions, or health risk impacts not considered and addressed within the Certified EIR. No changes or additions to the Certified EIR analysis are necessary. The City’s previous Statement of Overriding Considerations addresses any significant construction-source air quality impacts that could result from the Project Orion Distribution Center.

3.4.3.3 Noise

Overview

The Certified EIR at Section 4.4, “Noise,” addresses noise impacts in terms of the development allowed by the Westridge Commerce Center’s compatibility with, and context within, existing and future noise environments. The Certified EIR also addressed the potential for noise from the construction and operation of the proposed uses to impact noise-sensitive receptors. The Certified EIR further considered the potential for off-site noise sources (primarily vehicular-source noise emanating from Fir (future Eucalyptus) Avenue, Redlands Boulevard, and SR-60) to affect land uses proposed under the Westridge Commerce Center. Comparative noise impacts of the Certified EIR project and the Addendum Project are summarized below.

Construction-Source Noise

Construction of the Project would employ similar equipment, operating under City Noise Ordinance constraints and limitations, also applicable to the development allowed by the Certified EIR. No new or additional sensitive receptors would be affected by the Project’s construction activities, and noise levels received at off-site land uses would be consistent with noise levels considered in the Certified EIR. Construction-source noise impacts resulting from the Project are anticipated to be comparable to those considered and addressed in the Certified EIR. The Addendum Project would therefore not result in new, additional, or substantially different construction-source noise impacts than were considered and addressed in the Certified EIR.

Mobile-Source Noise

As identified in the Certified EIR, mobile-source noise generated by proximate vehicular traffic is the most significant noise source affecting the Project Area. In this regard, the Project site is bounded on the north by SR-60, a major regional connector between the Inland Empire area and the Los Angeles Basin to the west.

Further, traffic generated by either the Certified EIR project or the Addendum Project would incrementally contribute to area noise levels. However, total daily traffic volumes generated by the Addendum Project would be approximately 25 percent less than those described and analyzed in the Certified EIR.¹ Vehicle-related noise under the Project should be correspondingly reduced.

Area-Source Noise

Truck access/truck movements and loading dock activities associated with the warehouse uses proposed under the Addendum Project pose the greatest potential to result in noise that could adversely affect off-site land uses. However, the resulting noise levels received at off-site land uses would not be significant, and would not be substantively different than would otherwise occur from the development allowed under the Certified EIR project. In this regard, the warehouse uses allowed under the Project Orion Distribution Center will be implemented and operated consistent with the site plan design, development standards, design guidelines, and performance standards established under the proposed Westridge Commerce Center project, and in conformance with City ordinances, acting to reduce the potential for the Project to generate adverse noise levels.

Moreover, similar to the Certified EIR project, the Addendum Project orients the majority of loading dock activities toward the SR-60 freeway, and away from potentially affected residential land uses. In those instances where loading dock activities parallel potential off-site residential land uses (i.e., future residentially designated parcels south of Fir (future Eucalyptus) Avenue), the off-site land uses are at

¹ Please refer also to the discussion of comparative traffic volumes presented at Checklist Item 16, "Transportation/Traffic."

present undeveloped, and are separated by a minimum of approximately 400 feet from the nearest loading dock activities. This physical separation between noise sources and noise receptors acts to substantially reduce noise levels received at off-site properties. Moreover, under Project buildout conditions, and as is now the case, the noise environment in the Project area would be defined by mobile sources travelling along area roadways; in this instance, traffic along Fir (future Eucalyptus) Avenue.

Empirical noise levels observed for similar distribution warehouse loading dock and truck delivery activities approximate 73 decibels (dBA) when measured at a distance of 60 feet. For each doubling of distance between noise source and receptor, the received noise level decreases by approximately 6.0 dBA. At the nearest off-site receptor residential land uses (approximately 400 feet from the nearest loading dock areas), noise levels generated by the Project's loading dock activities would be less than 60 dBA. This noise level is consistent with the City General Plan and State of California Land Use/Noise compatibility guidelines, which indicate that residential land uses are considered generally acceptable in noise environments between 55 and 60 dBA, and conditionally acceptable in noise environments of 70 dBA or less. The Project is further required to conform to City Noise Ordinance performance standards to ensure that operational noise received at off-site land uses does not disturb the peace and quiet of adjacent residential zones.

Based on the preceding, the Addendum Project would not result in new, additional, or substantially different operational noise impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Other CEQA Noise Considerations

Other CEQA noise considerations (potential exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels; potential exposure of people residing or working in the project area to excessive noise levels from airports/airstrips or airport operations) were determined to be less-than-significant for the Certified EIR project, and would remain less-than-significant under the Addendum Project.

Conclusion:

Because the scope and character of potential noise impacts resulting from the Project are within the parameters considered in the Certified EIR, no new, additional, or different construction-source or operational-source noise impacts than were considered and addressed in the Certified EIR are anticipated. No changes or additions to the Certified EIR analysis are necessary.

3.4.3.4 Water Supply

The Certified EIR at Section 4.5, “Water Supply,” addressed the Westridge Commerce Center’s potential to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level; or to require new or expanded water supplies. The analysis included in the Certified EIR was supported by a Water Services Assessment prepared by the Eastern Municipal Water District (EMWD), and by EMWD’s Urban Water Management Plan, along with the Metropolitan Water District’s Regional Urban Water Management Plan. Mitigation was identified to require the contribution of funding toward the acquisition of new water supplies, treatment or recycled water facilities; the use of water-efficient devices and landscaping; development of a plan of services (POS) for the Project; and ongoing review of the Project WSA prior to construction. The Certified EIR found that with the implementation of mitigation, no adverse effects on water supplies or water resources, including groundwater, would result from Project implementation.

For planning purposes, EMWD uses a per-acre factor to estimate water demand based on land use type. The Westridge Commerce Center Project, as a light industrial land use, was estimated to require 700 gallons per day (GPD) per acre, or a total of 38,857 GPD, which is equivalent to approximately 44 acre-feet per year.² Acreage under the Project Orion site plan concept totals 52.095 acres, with no change in land use. On this basis, the Project Orion Distribution Center would require approximately 36,467 GPD,

² Water demand estimates are from Certified EIR Table 4.5-8. It should be noted that the acreage reflected in the Westridge Commerce Center WSA was based on a preliminary project estimate of 55.51 acres, rather than the 54.66 acre site area that is utilized in Project concepts within the remainder of the Certified EIR. On this basis, the WSA and Certified EIR provide an appropriately conservative estimate reflecting the Project’s maximum water demand.

or approximately 41 acre-feet per year. Thus, the Addendum Project would have a slightly reduced demand for water when compared to the Certified EIR project, and any potential impacts associated with the Project Orion Distribution Center would be adequately addressed within the scope of the Certified EIR mitigation measures, which would all carry forward to be implemented by the Addendum Project.

Conclusion:

The Project would not result in new, additional, or different water supply impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

3.4.3.5 Cultural Resources

As discussed at Certified EIR Section 4.7, "Cultural Resources," the Project site does not contain any known cultural resources. Notwithstanding, it is possible that previously-identified cultural resources could be encountered during earth moving operations. Accordingly, the Certified EIR required that grading activities be halted should such resources be unearthed. Additionally, the geological formations underlying the Project site are considered to have a moderate potential to yield fossils. To this end, the Certified EIR incorporated mitigation measures which require paleontological monitoring for excavations that exceed approximately ten feet in depth. Mitigation measures also specify reporting, recovery, cataloguing and preservation procedures, should resources be encountered within the subject site.

Revised entitlements requested under the Project Orion Distribution Center would not alter or otherwise affect the scope and location of cultural resources considered in the Certified EIR. As with the Certified EIR project, development allowed by the Addendum Project would be required to mitigate potential impacts to cultural resources by conducting archaeological and paleontological resources monitoring during construction activities, with accompanying reporting, recovery, cataloguing and preservation procedures for resources that might be encountered within the subject site.

In regards to the waterline improvements to be constructed west of the Project site, the Cultural Resources Assessment prepared for the Certified EIR (*Phase I Cultural Resources Investigation of the Proposed Westridge Commerce Center at Redlands Blvd. and the Moreno Valley Freeway and in the City of Moreno Valley, Riverside County, California*, McKenna et al., September 18, 2008) included a records search of previously reviewed resources within one mile radius of the Westridge project site, which included the waterline construction area. Additionally, a Cultural Resources Assessment was conducted for the Prologis Industrial Development, located westerly of the Project site and also included the area where the waterline will be installed. The proposed waterline will be located entirely within the future right of way of Fir (future) Eucalyptus Avenue. The right of way transverses the northern portion of the Prologis site on an east/west alignment. As previously stated, this area was studied as part of the Prologis cultural assessment. This Cultural Resources Assessment (*Cultural Resource Survey, Eucalyptus Industrial Park, City of Moreno Valley, Riverside California, LSA*, September 2011) concluded that no cultural resources are likely to be impacted by the entire development of the Prologis site. This conclusion was based on a comprehensive field survey and records search. Based on this study, it can be concluded that the impacts associated with the construction of the installation of the waterline are also considered to be less-than-significant.

Conclusion:

The Project would not result in cultural resources impacts not considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

3.4.3.6 Biological Resources

As discussed at Certified EIR Section 4.8, "Biological Resources," the Certified EIR relied on biological assessments performed between 2008 and 2010, including a general biological reconnaissance survey, a burrowing owl survey, surveys of off-site areas involved in project development, and a jurisdictional delineation. Mitigation was incorporated to ensure the protection and preservation of riparian areas associated with the Quincy Channel, which is adjacent to the site's westerly boundary. In addition, a streambed alteration agreement or permit, along with the implementation of a Habitat

Mitigation and Monitoring Plan (HMMP) to restore impacted riparian (mulefat) habitat would be required prior to the issuance of Project building permits. Mitigation measures designed to protect nesting birds in general, and specifically the burrowing owl, which is a California Species of Concern with the potential to occur onsite, were also incorporated in the Certified EIR. With the implementation of these mitigation measures, potential impacts to biological resources and habitat areas were determined less-than-significant. As with the Certified EIR project, development allowed by the Project Orion Distribution Center would be required to implement each of these mitigation measures to ensure the protection of biological resources onsite.

The proposed construction west of Quincy Channel will primarily affect an abandoned citrus grove and a band of non-native grassland. The abandoned citrus grove can be described as containing unmaintained orange and grapefruit trees. The non-native grassland is primarily comprised of numerous weedy species and some native forbs such as wildflowers that emerge, especially during rainy periods. Dominate species typically found within non-native grassland include brome, wild oats, fescues and barleys.

According to the Biological Report prepared for the proposed Prologis project, these areas are not considered to have any significant biological values. (*MSHCP Consistency Analysis and Burrowing Owl Habitat Assessment and Focused Survey for the Eucalyptus Industrial Development (PA07-0083), City of Moreno Valley, County of Riverside, July 2011; ICF International*). The conclusions of the 2011 Biological Report were verified by Harmsworth and Associates during a field review on November 7, 2013. The results of the field review indicate the biological conditions on the Prologis project site are similar to those originally presented in the 2011 Biological Report. A copy of the original 2011 report and the Harmsworth field review are presented at Appendix D of this Addendum.

Conclusion:

With the application of mitigation summarized above, the Addendum Project would not result in, or cause, new significant, substantively increased, or substantively

different, biological resources impacts than those previously addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

3.4.3.7 Aesthetics

Potential aesthetic impacts of the development analyzed in the Certified EIR in Section 4.9, "Aesthetics." The Certified EIR concluded that development of the Project site with light industrial warehouse/distribution uses as proposed by the Westridge Commerce Center project would restrict and/or obstruct views of offsite scenic resources within an established view corridor, and would therefore have a substantial adverse effect on a scenic vista. No mitigation to reduce this potentially significant aesthetic impact was identified, and, the Lead Agency determined that the Project's impacts in regard to scenic resources were significant and unavoidable. All other potential aesthetic impacts were determined less-than-significant.

The distribution/warehouse uses proposed by the Project Orion Distribution Center do not differ substantially in character or scale when compared to project assessed within the Certified EIR. Potential visual and aesthetic impacts of the distribution/warehouse project would be minimized through mandated conformance with the design guidelines, development standards, and performance standards articulated within the City of Moreno Valley Municipal Code. In this regard, development would, at a minimum, comply with design and development standards stipulated at Municipal Code Chapter 9.05, "Industrial Districts." Additionally, the Project will implement lighting and signage in conformance with applicable City standards, and will incorporate perimeter and internal landscaping/screening acting to reduce its potential visual/aesthetic impacts.

Conclusion:

Based on the preceding, the Addendum Project would not result in visual, aesthetic or light/glare impacts not considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

3.4.3.8 Cumulative Impacts

Potential cumulative impacts of the development allowed by the Westridge Commerce Center project are evaluated at Certified EIR Section 5.1, "Cumulative Impacts." The Certified EIR concluded that impacts of the development assessed under the Westridge Commerce Center project proposal would be cumulatively considerable relative to traffic (level of service exceedances); air quality (construction- and operational-source emissions exceedances); noise (for the duration of construction); and aesthetics (impacts to scenic resources).

As discussed within this Addendum, the Project Orion Distribution Center would not result in or cause new or substantively different significant impacts not already addressed within the Certified EIR. Under the specific topics of cumulative traffic impacts, cumulative construction- and operational-source air quality impacts, and cumulative construction-source noise impacts, the Addendum Project's effects would be diminished when compared to the development assessed under the Certified EIR, due primarily to the Addendum Project's reductions in building size and decreased vehicular trip generation. Cumulative aesthetic impacts would be incrementally reduced due to the Project's reduced overall building area, but would not be substantially different from those assessed under the Certified EIR project. No greater impact in regard to any potential cumulative impact has been identified in association with the Addendum Project.

3.4.3.9 Alternatives

Potential impacts of the development allowed by the proposed Westridge Commerce Center would not be substantively different in character and would not substantially exceed impacts that would otherwise result from the development assessed under the Certified EIR that would require new or different alternative analyses from the alternatives considered in the Certified EIR. That is, the Addendum Project would not result in any new significant impacts not already considered and addressed in the Certified EIR, including the Certified EIR's consideration of Alternatives to the Westridge Commerce Center project.

Conclusion:

The Alternatives Analysis presented in the Certified EIR would apply equally to the Addendum Project, with no substantive alteration in conclusions regarding the implementation of alternatives or their potential environmental impacts. As such, implementation of the Addendum Project would have no discernible effect on analyses or conclusions regarding development alternatives considered in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

4.0 Determination

SECTION 4.0

DETERMINATION

As supported by the analysis presented in this Addendum, the potential environmental effects of the development allowed by the proposed Project Orion Distribution Center, and associated required discretionary actions, have been adequately addressed in the Certified EIR for the Westridge Commerce Center project. This Addendum to the Certified EIR provides minor technical changes to the Certified EIR analysis. As such, the development of any further information and analysis (e.g., preparation of a Subsequent or Supplemental EIR) is not warranted. Pursuant to the requirements of *CEQA Guidelines* Section 15162 and 15164, the following determinations have been made:

Major Revisions to the Certified EIR Not Required

Based on the preceding analysis and information, there is no evidence that substantive changes to the Certified EIR are required. Comparison of the previous project with the Project described in this Addendum indicates that there is no new significant or more severe environmental impact, and that the development of the Project described herein would have the same impacts as those described in the Certified EIR prepared for the Westridge Commerce Center project.

No Substantial Change in Circumstances Requiring Major Revisions to the Certified EIR

No information exists in the record, or is otherwise available that indicates that there are substantial changes in circumstances that would require major changes to the Certified EIR.

No New Information Showing Greater Significant Effects than Identified in the Certified EIR

This Addendum has considered all available relevant information to determine whether there is new information, which was not available at the time the 2011 Westridge Commerce Center EIR was certified, that may indicate that a new significant effect may occur that was not reported in the Certified EIR. As supported by the analysis presented in this Addendum, there is no substantial new information that was not available at the time the 2011 EIR was certified, indicating that there will be a new, significant impact requiring major revisions of the Certified EIR.

No New Information Showing Ability to Reduce Significant Effects Identified in the Certified EIR

The Addendum analysis substantiates that there are no significant impacts requiring identification of new or additional alternatives to the project, or consideration of new or additional mitigation measures, in order to reduce one or more of the significant effects identified in the Certified EIR.

Summary

The analysis presented in this document substantiates that the analysis presented in the Certified EIR is sufficient to satisfy CEQA requirements for the proposed Project. That is, implementation of the Project Orion Distribution Center described and evaluated herein will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the Certified EIR. As such, environmental assessment of the Project does not require any major revision of the Certified EIR, nor will the development allowed by the Project Orion Distribution Center result in conditions that would require preparation of a Subsequent or Supplemental EIR as described in the *CEQA Guidelines*.

5.0 Mitigation Summary

SECTION 5.0

MITIGATION SUMMARY

5.1 CERTIFIED EIR MITIGATION AND IMPLEMENTATION

The following Table 5.1-1, “Mitigation and Implementation Summary Matrix,” presents all of the mitigation measures that were incorporated in the Certified EIR. Unless otherwise noted, each of these measures will be implemented through conditions of approval of the development allowed by the Project Orion Distribution Center.

Interim actions which may have occurred in regard to the implementation of mitigation measures are indicated in the “Remarks,” column of this Table. At the discretion of the City Planning Director, the mitigation measures identified at Table 5.1-1 may be modified to respond to conditions as they may apply to the development allowed by the Project Orion Distribution Center. Any such discretionary modifications cannot result in any new significant environmental impacts; rather, modifications would ensure compliance and consistency with current policies, regulations, and conservation programs.

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures	
<u>Traffic and Circulation</u>	
4.2.1	<p><i>Redlands Boulevard at SR-60 Westbound Ramps Improvements:</i></p> <ul style="list-style-type: none"> • <i>Install a traffic signal.</i> <p><i>This improvement is currently approved, programmed, and permitted by Caltrans. If not otherwise completed prior to Project opening, the required traffic signal shall be constructed by the Applicant prior to issuance of the first Certificate of Occupancy.</i></p>
4.2.2	<p><i>Redlands Boulevard at Fir (future Eucalyptus) Avenue Improvements:</i></p> <p><i>Prior to issuance of the first Certificate of Occupancy, the Applicant shall construct the following improvements:</i></p> <ul style="list-style-type: none"> • <i>Install a traffic signal;</i> • <i>Construct a southbound right turn auxiliary lane which extends the full length of the segment of Redlands Boulevard between the SR-60 Eastbound Ramps and Fir (future Eucalyptus) Avenue for a southbound lane configuration of one shared left-through lane and one right turn lane; and</i> <p><i>Construct an eastbound left-turn lane with 300 feet of storage for an eastbound lane configuration of one left-turn lane and one shared through-or-right-turn-lane.</i></p>
4.2.3	<p><i>Moreno Beach Drive at SR-60 Eastbound Ramps Improvements:</i></p> <ul style="list-style-type: none"> • <i>Construct an eastbound right-turn lane and re-stripe the shared left-or-right-turn lane as an exclusive left-turn lane, for an eastbound lane configuration of one left-turn lane and one right-turn lane. These improvements would require the dedication of right-of-way from the south side of the SR-60 Eastbound Ramps and re-striping of all lanes on the west leg of the intersection.</i> <p><i>These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year Cumulative traffic impacts at the intersection of Moreno Beach Drive at SR-60 Eastbound Ramps.</i></p>

-645-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

- | | |
|-------|---|
| 4.2.4 | <p><i>Moreno Beach Drive at SR-60 Westbound Ramps Improvements:</i></p> <ul style="list-style-type: none"> • <i>Coordinate traffic signal timing with the signal at the intersection of Moreno Beach Drive at SR-60 Eastbound Ramps. These improvements would be funded through Project participation in the TUMF Program. Although the intersection of Moreno Beach Drive at SR-60 Westbound Ramps is anticipated to operate at an acceptable LOS, the coordination of traffic signal timing with the signal at the intersection of Moreno Beach Drive at SR-60 Eastbound Ramps would ensure continued satisfactory operations.</i> <p><i>The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year Cumulative traffic impacts at the intersection of Moreno Beach Drive at SR-60 Westbound Ramps.</i></p> |
| 4.2.5 | <p><i>Redlands Boulevard at SR-60 Westbound Ramps Improvements:</i></p> <ul style="list-style-type: none"> • <i>Install a traffic signal (a TUMF improvement to be constructed by the Project pursuant to Mitigation Measure 4.2.1);</i> • <i>Construct a second northbound through lane and a right-turn lane with overlap phasing, for a northbound lane configuration of one left-turn lane, two through lanes and one right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way on the east side of Redlands Boulevard and re-striping of all lanes on the south leg of the intersection; and</i> • <i>Construct a second southbound through lane, for a southbound lane configuration of one left-turn lane and two through lanes. These improvements would require the dedication of right-of-way on the west side of Redlands Boulevard and re-striping of all lanes on the north leg of the intersection.</i> <p><i>The traffic signal noted above will be constructed by the Project pursuant to Mitigation Measure 4.2.1. The remaining improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year Cumulative traffic impacts at the intersection of Redlands Boulevard at SR-60 Westbound Ramps.</i></p> |
| 4.2.6 | <p><i>Redlands Boulevard at SR-60 Eastbound Ramps Improvements:</i></p> <ul style="list-style-type: none"> • <i>Construct a second northbound through lane for a northbound lane configuration of one left turn lane and two through lanes. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard and restriping of all lanes on the south leg of the intersection;</i> |

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures	
4.2.6	<p><i>Redlands Boulevard at SR-60 Eastbound Ramps Improvements (continued)</i></p> <ul style="list-style-type: none"> • <i>Construct a second southbound through lane, for a southbound lane configuration of one left-turn lane and two through lanes. These improvements would require the dedication of right-of-way on the west side of Redlands Boulevard and re-striping of all lanes on the north leg of the intersection; and</i> • <i>Construct an eastbound right-turn lane and re-stripe the shared left-or-right turn lane as an exclusive left-turn lane, for an eastbound lane configuration of one left-turn lane and one right-turn lane. These improvements would require the dedication of right-of-way on the south side of the SR-60 Eastbound Ramps and re-striping of all lanes on the west leg of the intersection.</i> <p><i>These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year cumulative traffic impacts at the intersection of Redlands Boulevard at SR-60 Eastbound Ramps.</i></p>
4.2.7	<p><i>Redlands Boulevard at Fir (future Eucalyptus) Avenue Improvements:</i></p> <ul style="list-style-type: none"> • <i>Install a traffic signal (a DIF¹ improvement to be constructed by the Project pursuant to Mitigation Measure 4.2.2);</i> • <i>Construct a northbound left-turn lane with 200 feet of storage and a second through lane, for a northbound lane configuration of one left-turn lane, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard, and restriping of all lanes on the south leg of the intersection. Construction of the northbound through lane would be funded through participation in the TUMF Program; remaining improvements would be funded through participation in the DIF Program.</i>

¹ With specific regard to Project payment of Development Impact Fees (DIF), it is recognized that the City, as an interim and temporary measure, has reduced required DIF payments by 50%. Notwithstanding, the reduced DIF payment program is considered to have sufficient funds to construct prioritized improvements necessary to alleviate traffic impacts. That is, over time, the City's DIF structure, allocation of fees, and prioritization of improvements is able to flexibly respond to traffic demands within the City such that funding for all necessary improvements is available in a timely manner. It is further noted that should supplemental funds be required, the City is able to secure these funds through other sources including but not limited to: state and federal grants, redevelopment funds and Measure A gas tax funds.

-647-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.2.7 *Redlands Boulevard at Fir (future Eucalyptus) Avenue Improvements (continued)*

- *Construct a southbound left-turn lane with 250 feet of storage, a second left-turn lane that extends back to the SR-60 Eastbound Ramps, a second through lane, and a right-turn lane with overlap phasing and a pocket length that is the full length of the segment, for a southbound lane configuration of two left-turn lanes, two through lanes, and one right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard, and restriping of all lanes on the north leg of the intersection. Construction of the southbound through lane would be funded through participation in the TUMF program. Construction of one southbound left-turn lane would be funded through participation in the DIF program. The noted right-turn southbound lane would be constructed by the Project pursuant to Mitigation Measure 4.2.2. Overlap phasing to this right-turn lane will be added when determined appropriate by the City Traffic Engineer, and will be funded through fair share fee participation. Remaining improvements would also be funded through fair share fee contributions.*
- *Construct dual eastbound left-turn lanes with 300 feet of storage and a second through lane, for an eastbound lane configuration of two left-turn lanes, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the south side of Fir (future Eucalyptus) Avenue, and restriping of all lanes on the west leg of the intersection. A single eastbound turn with 300 feet of storage will be constructed by the Project under Opening Year Ambient Conditions pursuant to Mitigation Measure 4.2.2. The remaining improvements would be funded through participation in the DIF Program.*
- *Construct a westbound left-turn lane, a second through lane, and a right-turn lane with overlap phasing, providing 200 feet of storage for both the left-turn and right-turn lanes, for a westbound lane configuration of one left-turn lane, two through lanes, and one right-turn lane with overlap phasing.*

These improvements would require the dedication of right-of-way from the north side of Fir (future Eucalyptus) Avenue, and restriping of all lanes on the east leg of the intersection. Construction of the westbound left and through lanes would be funded through participation in the DIF Program; remaining improvements would be funded through fair share fee participation.

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.2.8 Quincy Street at Fir (future Eucalyptus) Avenue Improvements:

- Install a stop-control on the south leg of the intersection;
- Construct a northbound shared left-or-right-turn lane. Quincy Street should be constructed as a two-lane undivided roadway with a minimum of one travel lane in each direction;
- Construct an eastbound shared through-or-right-turn lane. The Fir (future Eucalyptus) Avenue extension should be constructed as a two-lane undivided roadway with a minimum of one travel lane in each direction; and
- Construct a westbound left-turn lane and through lane. The Fir (future Eucalyptus) Avenue extension should be constructed as a two-lane undivided roadway with a minimum of one travel lane in each direction.

These improvements would be funded through participation in the DIF Program. The Project will pay required DIF, facilitating construction of new intersection improvements at Quincy Street at Fir (future Eucalyptus) Avenue.

4.2.9 Moreno Beach Drive at SR-60 Eastbound Ramps Improvements:

- Construct the SR-60 eastbound on- and off-ramps, designed as a standard diamond and consistent with the proposed SR-60 Freeway/Moreno Beach Drive interchange design, and install a traffic signal at the new intersection;
- Construct a third northbound through lane, for a northbound lane configuration of three through lanes and a right-turn lane. These improvements would require the dedication of right-of-way from the east side of Moreno Beach Drive and re-striping of all lanes on the south leg of the intersection;
- Construct the SR-60 eastbound off-ramp with an eastbound lane configuration of one left-turn lane and dual right-turn lanes; and
- Construct the SR-60 eastbound on-ramp on Moreno Beach Drive with a minimum of two travel lanes.

These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Moreno Beach Drive at SR-60 Eastbound Ramps.

-649-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.2.10 Moreno Beach Drive at SR-60 Westbound Ramps Improvements:

- Construct a second northbound through lane, for a northbound lane configuration of two through lanes and a right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the east side of Moreno Beach Drive and re-striping of all lanes on the south leg of the intersection;
- In addition to the planned on-ramp for southbound vehicles which is part of the future SR-60/Moreno Beach Drive interchange design, a second southbound through lane and a right-turn lane, for a southbound lane configuration of two through lanes and a right-turn lane. These improvements would require dedication on the west side of Moreno Beach Drive and re-striping of all lanes on the north leg of the intersection;
- Construct the SR-60 westbound on-ramp for vehicles traveling southbound on Moreno Beach Drive with a minimum of one travel lane; and
- Construct a second westbound left-turn lane, for a westbound lane configuration of two left-turn lanes and a right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the north side of the SR-60 Westbound Ramps and re-striping of all lanes on the east leg of the intersection.

These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Moreno Beach Drive at SR-60 Westbound Ramps.

4.2.11 Moreno Beach Drive at Fir (future Eucalyptus) Avenue Improvements:

- Construct dual northbound left-turn lanes and re-stripe the northbound right-turn lane as a shared through-or-right turn lane for a northbound lane configuration of two left-turn lanes, two through lanes and a shared through-or-right turn lane. These improvements would require the dedication of right-of-way from the east side of Moreno Beach Drive and re-striping of all lanes on the south leg of the intersection. Restriping of the northbound right-turn lane as a shared through-or-right turn lane would be funded through participation in the DIF Program. Remaining improvements would be funded through fair share fee participation;
- Construct a southbound left-turn lane and a right-turn lane with overlap phasing, for a southbound lane configuration of two left-turn lanes, three through lanes and a right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the west side of Moreno Beach Drive and re-striping of all lanes on the north leg of the intersection, and would be funded through fair share fee participation;

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures	
<p>4.2.11 <i>Moreno Beach Drive at Fir (future Eucalyptus) Avenue Improvements (continued):</i></p> <ul style="list-style-type: none"> • <i>Construct the new eastbound leg of this intersection with dual left-turn lanes, a through lane, and a shared through-or-right-turn lane. Construction of one eastbound left-turn lane, the eastbound through lane, and the eastbound shared through-or-right-turn lane would be funded through participation in the DIF Program. Remaining improvements would be funded through fair share fee participation; and</i> • <i>Construct a westbound through lane and implement overlap phasing on the right-turn movement, for a westbound lane configuration of one left-turn lane, two through lanes, and a right-turn lane with overlap phasing. This improvement would be funded through fair share fee participation.</i> <p><i>The Project will pay required DIF and fair share fees, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Moreno Beach Drive at Fir (future Eucalyptus) Avenue.</i></p>	
<p>4.2.12 <i>Quincy Street at Fir (future Eucalyptus) Avenue Improvements:</i></p> <ul style="list-style-type: none"> • <i>Install a stop-control on the south leg of the intersection;</i> • <i>Construct a northbound shared left-or-right-turn lane;</i> • <i>Construct the eastbound approach of the Fir (future Eucalyptus) Avenue extension with a through lane and a shared through-or-right-turn lane; and</i> • <i>Construct the westbound approach of the Fir (future Eucalyptus) Avenue extension with a left-turn lane, a through lane, and a shared through-or-right-turn lane.</i> <p><i>These improvements would be funded through participation in the DIF Program. The Project will pay required DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Quincy Street at Fir (future Eucalyptus) Avenue.</i></p>	
<p>4.2.13 <i>Redlands Boulevard at SR-60 Westbound Ramps Improvements:</i></p> <ul style="list-style-type: none"> • <i>Install a traffic signal (a TUMF improvement to be constructed by the Project pursuant to Mitigation Measure 4.2.1);</i> • <i>Construct a northbound through lane and a right-turn lane with overlap phasing, for a northbound lane configuration of one left-turn lane, two through lanes and one right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard and re-striping of all lanes on the south leg of the intersection;</i> 	

-651-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.2.13 *Redlands Boulevard at SR-60 Westbound Ramps Improvements (continued):*

- *Construct a southbound left-turn lane and a through lane, for a southbound lane configuration of two left-turn lanes and a through lane, and a shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard and re-striping of all lanes on the north leg of the intersection; and*
- *Construct a westbound left-turn lane and a right-turn lane, for a westbound lane configuration of one left-turn lane, one shared left-through lane and a right-turn lane. These improvements would require the dedication of right-of-way from the north side of the SR-60 Westbound Ramps and re-striping of all lanes on the east leg of the intersection.*

The traffic signal noted above will be constructed by the Project pursuant to Mitigation Measure 4.2.1. The remaining improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at Redlands Boulevard at SR-60 Westbound Ramps.

4.2.14 *Redlands Boulevard at SR-60 Eastbound Ramps Improvements:*

- *Construct two northbound through lanes, for a northbound lane configuration of one left-turn lane and three through lanes, with the pocket length for the northbound left-turn lane at the full length of the segment. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard, and restriping of all lanes on the south leg of the intersection;*
- *Construct two southbound through lanes, for a southbound lane configuration of two through lanes and a shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard and re-striping of all lanes on the north leg of the intersection; and*
- *Re-stripe the shared eastbound left-or-right-turn lane as an exclusive left-turn lane, for an eastbound lane configuration of two left-turn lanes and one right-turn lane. These improvements would require the dedication of right-of-way on the south side of the SR-60 Eastbound Ramps and re-striping of all lanes on the west leg of the intersection.*

These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Redlands Boulevard at SR-60 Eastbound Ramps.

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.2.15 *Redlands Boulevard at Fir (future Eucalyptus) Avenue Improvements:*

- *Install a traffic signal (a DIF improvement to be constructed by the Project pursuant to Mitigation Measure 4.2.2);*
- *Construct a left-turn lane with 200 feet of storage and a second through lane for a northbound lane configuration of one left-turn lane, one through lane and one shared through right-turn lane. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard. Restriping of all lanes on the south leg of the intersection, and construction of the northbound through lane would be funded through participation in the TUMF Program. Remaining improvements would be funded through participation in the DIF Program;*
- *Construct a southbound left turn lane with 250 feet of storage, a second left-turn lane that extends back to the SR-60 Eastbound ramps, a second through lane and a right turn lane with overlap phasing for a southbound lane configuration of two left turn lanes, two through lanes and one right turn lane with overlap phasing, with a right turn pocket length that extends the full length of the segment. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard, and restriping of all lanes on the north leg of the intersection. Construction of the southbound through lane would be funded through participation in the TUMF Program. Construction of one southbound left-turn lane would be funded through participation in the DIF program. The noted right-turn southbound lane would be constructed by the Project pursuant to Mitigation Measure 4.2.2. Overlap phasing for this right-turn lane will be added when determined appropriate by the City Traffic Engineer, and will be funded through fair share fee participation. Remaining improvements would also be funded through fair share fees;*
- *Construct dual eastbound left-turn lanes with 300 feet of storage and a second through lane, for an eastbound lane configuration of two left-turn lanes, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the south side of Fir (future Eucalyptus) Avenue, and restriping of all lanes on the west leg of the intersection. A single eastbound turn lane with 300 feet of storage will be constructed by the Project under Opening Year Ambient Conditions pursuant to Mitigation Measure 4.2.2. The remaining improvements would be funded through participation in the DIF Program; and*

-653-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.2.15 *Redlands Boulevard at Fir (future Eucalyptus) Avenue Improvements (continued):*

- *Construct a westbound left-turn lane, one through lane, and a right-turn lane with overlap phasing, for a westbound lane configuration of one left-turn lane, two through lanes, and one right-turn-lane with overlap phasing [these improvements would require the dedication of right-of-way from the north side of Fir (future Eucalyptus) Avenue, and restriping of all lanes on the east leg of the intersection]. Construction of the westbound left and through lanes would be funded through participation in the DIF Program; remaining improvements would be funded through participation in the fair share fee assessments.*

The Project will pay required TUMF, DIF and fair share fees, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Redlands Boulevard at Fir (future Eucalyptus) Avenue.

4.2.16 *Redlands Boulevard at Eucalyptus (future Encilia) Avenue Improvements:*

- *Install a traffic signal. This improvement would be funded through participation in the DIF Program;*
- *Construct a northbound left-turn lane and a shared through-or-right-turn lane, for a northbound lane configuration of one left-turn lane, one through lane and one shared through-or-right turn lane. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard and re-striping of all lanes on the south leg of the intersection. Construction of the northbound left-turn lane would be funded through participation in the DIF Program; remaining improvements would be funded through participation in the TUMF Program;*
- *Construct a southbound left-turn lane, a through lane, and a right-turn lane, for a southbound lane configuration of one left-turn lane, two through lanes, and one right-turn-lane. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard, and restriping of all lanes on the north leg of the intersection. Construction of the southbound through lane would be funded through participation in the TUMF Program; remaining improvements would be funded through participation in the DIF program;*
- *Re-stripe the eastbound right-turn lane as a through lane and construct an additional shared through-or-right-turn lane, for an eastbound lane configuration of one left-turn lane, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the south side of Eucalyptus (future Encilia) Avenue and the re-striping of all lanes on the west leg of the intersection, and would be funded through participation in the DIF Program; and*

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.2.16 Redlands Boulevard at Eucalyptus (future Encilia) Avenue Improvements (continued):

- *Construct the westbound approach with one left-turn lane, one through lane, and one shared through-or-right-turn-lane. These improvements would require the dedication of right-of-way from the north side of Eucalyptus (future Encilia) Avenue, and the re-striping of all lanes on the east leg of the intersection, and would be funded through participation in the DIF Program.*

The Project will pay required TUMF and DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Redlands Boulevard at Eucalyptus (future Encilia) Avenue.

4.2.17 Redlands Boulevard at Cottonwood Avenue Improvements:

- *Construct a northbound through lane, for a northbound lane configuration of one left-turn lane, one through lane and one shared through-or-right turn lane. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard, and the re-striping of all lanes on the south leg of the intersection, and would be funded through participation in the TUMF Program;*
- *Construct a southbound left-turn lane and a through lane, for a southbound lane configuration of one left-turn lane, two through lanes, and one right-turn-lane. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard, and the restriping of all lanes on the north leg of the intersection. Construction of the southbound through lane would be funded through participation in the TUMF Program; remaining improvements would be funded through participation in the DIF Program;*
- *Re-stripe the eastbound right-turn lane as a through lane, and construct an additional through-or-right-turn lane, for an eastbound lane configuration of one left-turn lane, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the south side of Cottonwood Avenue, and the re-striping of all lanes on the west leg of the intersection, and would be funded through participation in the DIF Program; and*
- *Construct the westbound approach with one left-turn lane, one through lane, and one shared through-or-right-turn-lane. These improvements would require the dedication of right-of-way from the north side of Cottonwood Avenue, and the re-striping of all lanes on the east leg of the intersection, and would be funded through participation in the DIF Program.*

The Project will pay required TUMF and DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Redlands Boulevard at Cottonwood Avenue.

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.2.18 Quincy Street south of Fir (future Eucalyptus) Avenue Improvements:

- Construct Quincy Street south of Eucalyptus Avenue as a two-lane undivided roadway with a minimum of one travel lane in each direction.

The Project will pay required DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year cumulative traffic impacts at the segment of Quincy Street south of Fir (future Eucalyptus) Avenue.

4.2.19 Fir (future Eucalyptus) Avenue west of Quincy Street to the westerly Project boundary and Fir (future Eucalyptus) east of Redlands Boulevard Improvements:

- Construct the Fir (future Eucalyptus) Avenue extension from the current terminus near the Auto Mall to Quincy Street, and connecting to Fir (future Eucalyptus) Avenue at the westerly project boundary. Continue Fir (future Eucalyptus) Avenue east of Redlands Boulevard. Fir (future Eucalyptus) Avenue is to be constructed as a two-lane undivided roadway with a minimum of one travel lane in each direction.

The Project will pay required DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year cumulative traffic impacts affecting the segment of Fir (future Eucalyptus) Avenue between the Auto Mall and the westerly Project Boundary, and Fir (future Eucalyptus) Avenue east of Redlands Boulevard.

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

Air Quality

To facilitate monitoring and compliance, applicable SCAQMD and CARB regulatory requirements are restated as Mitigation Measures 4.3.1 through 4.3.3 below, and shall be incorporated in all Project plans, specifications and contract documents.

4.3.1 *Consistent with URBEMIS modeling inputs and to effect implementation of SCAQMD Rule 403, the following measures shall be incorporated:*

- *All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.*
- *The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered at least three times daily during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.*
- *The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are reduced to 15 miles per hour or less to reduce PM10 and PM2.5 fugitive dust haul road emissions.*
- *Site disturbance during mass grading and fine grading activities shall not exceed 13.66 acres per day.*
- *Ground cover shall be replaced, and/or non-toxic soil stabilizers shall be applied (according to manufacturers' specifications) to any inactive construction areas (previously graded areas inactive for ten days or more).*

In support of Project plan specifications and contract document language; and as means of controlling on-site construction vehicle speeds, for the duration of Project construction activities, speed limit signs (15 mph maximum) shall be posted at entry points to the Project site, and along any unpaved roads providing access to or within the Project site and/or any unpaved designated on-site travel routes.

4.3.2 *The contractor shall minimize pollutant emissions by maintaining equipment engines in good condition and in proper tune according to manufacturer's specifications and during smog season (May through October) by not allowing construction equipment to be left idling for more than five minutes (per California law).*

4.3.3 *The contractor shall ensure use of low-sulfur diesel fuel in construction equipment as required by the California Air Resources Board (CARB) (diesel fuel with sulfur content of 15 ppm by weight or less).*

-657-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

Additional mitigation required of the Project is identified below, and shall be shall be incorporated in all Project plans, specifications and contract documents.

4.3.4 *Contractor(s) shall ensure that all off-road heavy-duty construction equipment utilized during construction activity shall be CARB Tier 2 Certified or better.*

4.3.5 *In order to reduce localized Project impacts to sensitive receptors in the Project vicinity during construction, construction equipment staging areas shall be located at least 300 feet away from sensitive receptors.*

4.3.6 *During Project construction, existing electrical power sources (e.g., power poles) shall be utilized to power electric construction tools including saws, drills and compressors, to minimize the need for diesel or gasoline powered electric generators.*

4.3.7 *The Applicant shall use "Zero-Volatile Organic Compounds" paints, coatings, and solvents with a VOC content lower than required under Rule 1113 (not to exceed 150 grams/liter; 1.25 pounds/gallon). High Pressure Low Volume (HPLV) applications of paints, coatings, and solvents shall be consistent with South Coast Air Quality Management District Rule 1113. Alternatively, the Applicant shall use materials that do not require painting or are pre-painted.*

4.3.8 *Grading plans, construction specifications and bid documents shall also include the following notations:*

- Off-road construction equipment shall utilize alternative fuels e.g., biodiesel fuel (a minimum of B20), natural gas (CNG), liquefied natural gas (LNG), propane, except for equipment where use of such fuels would void the equipment warranty;*
- Gravel pads shall be provided at all access points to prevent tracking of mud onto public roads;*
- Install and maintain trackout control devices at all access points where paved and unpaved access or travel routes intersect;*
- The contractor or builder shall designate a person or person(s) to monitor the dust control program and to order increased watering, as necessary, to prevent transport of dust offsite;*
- The contractor or builder shall post a publicly visible sign with the telephone number and person to contact regarding dust complaints. The contact person shall take corrective action within 24 hours;*
- High pressure injectors shall be provided on diesel construction equipment where feasible;*
- Engine size of construction equipment shall be limited to the minimum practical size;*

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures	
4.3.8	<p><i>Grading plans, construction specifications and bid documents shall also include the following notations (continued):</i></p> <ul style="list-style-type: none"> • <i>Substitute gasoline-powered for diesel powered construction equipment where feasible;</i> • <i>Use electric construction equipment where feasible;</i> • <i>Install catalytic converters on gasoline-powered equipment where feasible;</i> • <i>Ride-sharing program for the construction crew shall be encouraged and shall be supported by contractor(s) via incentives or other inducement;</i> • <i>Documentation shall be provided to the City of Moreno Valley indicating that construction workers have been encouraged to carpool or otherwise reduce VMT to the greatest extent practical, including providing information on available park and ride programs;</i> • <i>Lunch services shall be provided onsite during construction to minimize the need for offsite vehicle trips;</i> • <i>All forklifts used during construction and in subsequent operation of the Project shall be electric or natural gas powered.</i>
4.3.9	<p><i>Throughout Project construction, a construction relations officer/community liaison, appointed by the Applicant, shall be retained on-site. In coordination and cooperation with the City, the construction relations officer/community liaison shall respond to any concerns related to PM10 (fugitive dust) generation or other construction-related air quality issues.</i></p>
4.3.10	<p><i>All Project entrances shall be posted with signs which state:</i></p> <ul style="list-style-type: none"> • <i>Truck drivers shall turn off engines when not in use;</i> • <i>Diesel delivery trucks servicing the Project shall not idle for more than three (3) minutes; and</i> • <i>Telephone numbers of the building facilities manager and CARB, to report violations.</i> <p><i>These measures shall be enforced by the on-site facilities manager (or equivalent).</i></p>

-659-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

Although potential Project-related Global Climate Change (GCC) impacts would be less-than-significant, the following Mitigation Measures 4.3.11 through 4.3.14 are provided to reduce Project related operational source air pollutants and greenhouse gas emissions to the extent feasible, and to promote sustainability through conservation of energy and other natural resources.

4.3.11 Buildings shall surpass incumbent California Title 24 Energy Efficiency performance standards by a minimum of 20 percent for water heating and space heating and cooling. Verification of increased energy efficiencies shall be documented in Title 24 Compliance Reports provided by the Applicant, and reviewed and approved by the City prior to the issuance of the first building permit. Any combination of the following design features may be used to fulfill this mitigation measure provided that the total increase in efficiency meets or exceeds 20 percent.

- Increase in insulation such that heat transfer and thermal bridging is minimized;*
 - Limit air leakage through the structure or within the heating and cooling distribution system to minimize energy consumption;*
 - Incorporate dual-paned or other energy efficient windows;*
 - Incorporate energy efficient space heating and cooling equipment;*
 - Interior and exterior energy efficient lighting which exceeds the California Title 24 Energy Efficiency performance standards shall be installed, as deemed acceptable by the City of Moreno Valley. Automatic devices to turn off lights when they are not needed shall be implemented;*
 - To the extent that they are compatible with landscaping guidelines established by the City of Moreno Valley, shade producing trees, particularly those that shade buildings and paved surfaces such as streets and parking lots and buildings shall be planted at the Project site.*
 - Paint and surface color palette for the Project shall emphasize light and off-white colors which will reflect heat away from the buildings.*
- All buildings shall be designed to accommodate renewable energy sources, such as photovoltaic solar electricity systems, appropriate to their architectural design.*

4.3.12 The Project shall be designed to facilitate the reduction of waste generated by building occupants that is hauled to and disposed of in landfills by providing easily accessible areas that are dedicated to the collection and storage of recyclable materials including: paper, cardboard, glass, plastics, and metals. Locations of proposed recyclable materials collection areas are subject to review and approval by the City. Prior to Final Site Plan approval, locations of proposed recyclable materials collection areas shall be delineated on the Project Site Plan.

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.3.13 GHG emissions reductions measures shall also include the following:

- The Project shall provide secure, weather-protected on-site bicycle storage/parking consistent with City of Moreno Valley requirements;
- The Project shall provide pedestrian and bicycle connections to surrounding areas, consistent with provisions of the City of Moreno Valley General Plan. Location and configurations of proposed pedestrian and bicycle connections are subject to review and approval by the City. Prior to Final Site Plan approval, pedestrian and bicycle connections shall be indicated on the Project Site Plan;
- The Project shall provide onsite showers (one for males and one for females). Lockers for employees shall be provided.
- Any traffic signals installed as part of the Project will utilize light emitting diodes (LEDs);
- The Project will establish a Transportation Management Association (TMA). The TMA will coordinate with other TMAs within the City to encourage and coordinate carpooling among building occupants. The TMA will advertise its services to building occupants, and offer transit and/or other incentives to reduce GHG emissions. Additionally, a shuttle will be provided during any one hour period where more than 20 employees or construction workers utilize public transit. A plan will be submitted by the TMA to the City within two months of Project completion that outlines the measures implemented by the TMA, as well as contact information; The Project shall provide preferential parking for carpools and vanpool. Locations and configurations of proposed preferential parking for carpools and vanpools are subject to review and approval by the City. Prior to Final Site Plan approval, preferential parking for carpools and vanpools shall be delineated on the Project Site Plan;
- The Project shall provide at least two electric vehicle charging stations. Locations and configurations of proposed charging stations are subject to review and approval by the City. Prior to issuance of the first building permit, stub outs for charging stations shall be indicated on the Project building plans.
- Lease/purchase documents shall identify that tenants are encouraged to provide incentives to realize the following:
 - Implementation of compressed workweek schedules;
 - SmartWay partnership;
 - Achievement of at least 20% per year (as a percentage of previous percentage, not total trips) increase in percentage of consolidated trips carried by SmartWay carriers until it reaches a minimum of 90% of all long haul trips carried by SmartWay 1.0 or greater carriers.

-661-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.3.13 (continued)

- *Achievement of at least 15% per year (as a percentage of previous percentage, not total trips) increase in percentage of long haul trips carried by SmartWay carriers until it reaches a minimum of 85% of all consolidator trips carried by SmartWay 1.0 or greater carriers.*
- *Use of fleet vehicles conforming to 2010 air quality standards or better.*
- *Installation of catalytic converters on gasoline-powered equipment.*
- *Inclusion of electric powered and/or compressed natural gas fueled trucks and/or vehicles in fleets;*
- *Establishment and use of carpool/vanpool programs, complemented by parking fees for single-occupancy vehicles;*
- *Provision of preferential parking for EV and CNG vehicles;*
- *Use of electrical equipment (instead of gasoline-powered equipment) for landscape maintenance;*
- *Use of electric (instead of diesel or gasoline-powered) yard trucks;*
- *Use of SmartWay 1.25 rated trucks.*

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures	
4.4	Noise
4.4.1	<i>Prior to the issuance of any grading or building permit, the Project plans and specifications shall include a statement that during all Project site construction, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards. And further that the construction contractor shall place all stationary construction equipment so that emitted noise is directed away from off-site receptors nearest the Project site. The statement in the plans and specifications shall be reviewed and approved by the City of Moreno Valley Planning Department, or their designee.</i>
4.4.2	<i>Prior to the issuance of any grading or building permit, the Project plans and specifications shall include a statement that the construction contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise sources and off-site receptors nearest the Project site during all Project construction. The statement in the plans and specifications shall be reviewed and approved by the City of Moreno Valley Planning Department, or their designee.</i>
4.4.3	<i>Prior to the issuance of any grading or building permit, the Project plans and specifications shall include a statement that construction activities, including haul truck operations, shall be limited to the hours between 7:00 a.m. and 8:00 p.m. Monday through Friday. No Project-related construction activities shall occur on weekends or Federal holidays. To the extent feasible, haul routes shall not pass sensitive land uses or residential dwellings. The statement in the plans and specifications shall be reviewed and approved by the City of Moreno Valley Planning Department, or their designee.</i>
4.4.4	<i>Prior to the issuance of any grading or building permit, the Project plans and specifications shall include a statement that for the duration of grading and site preparation activities, temporary construction noise curtains or similar line-of-sight noise reduction measures shall be installed along the Project's southerly boundary. Noise curtains shall be installed so as to provide maximum reduction for noise sensitive uses (at present a single residence located southerly of the Project site) and shown on the grading plans prepared for the Project.</i>

-663-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.5 Water Supply

To further minimize the Project's overall water use, ensure on-going availability and reliability of water supplies within the EMWD service area, and provide for timely, monitored compliance with requirements stipulated in the Project WSA, the following EMWD Conditions of Approval are incorporated as EIR Mitigation Measures. Prior to building permit issuance, the developer shall provide a will-serve letter from EMWD demonstrating compliance with the following Conditions of Approval.

4.5.1 Prior to the issuance of building permits, the Project Applicant shall contribute funding toward the acquisition of new water supplies, new treatment or recycled water facilities, and water efficiency measures for existing customers to develop new water supplies. The extent of additional funding shall be determined by the EMWD and may take the form of a new component of connection fees or a separate charge.

4.5.2 The Applicant shall install water efficient devices and landscaping according to the requirements of EMWD's water use efficiency ordinance(s) effective at the time of Project construction.

4.5.3 The Applicant shall meet with EMWD staff at the earliest feasible date to develop a Plan of Service (POS) for the Project. The POS shall detail water, wastewater and recycled water facilities requirements to serve the Project, to be constructed by the Applicant.

4.5.4 Until the Project begins construction, the Project Water Supply Assessment shall be reviewed for its continued accuracy and adequacy every three (3) years, commencing on the WSA approval date of June 4, 2008. The Project Applicant shall maintain communication with EMWD on the status of the Project, and the lead agency shall request the referenced three-year periodic review and update of the WSA. If neither the Project applicant nor the lead agency contacts EMWD within three (3) years of approval of this WSA, it shall be assumed that the Project no longer requires the estimated water demand as calculated in the WSA. The demand for the Project will not be considered in assessments for future projects, and the assessment provided within the Project WSA shall be considered invalid.²

² Pursuant to this measure, in 2011 the Lead Agency requested an extension of the Westridge WSA for an additional three years. EMWD's response (dated April 12, 2011) indicates that the District would "continue to consider the demand for the Westridge Project in future assessments."

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures	
4.7	<u>Cultural Resources</u>
4.7.1	<i>A professional cultural resources monitor (Project Paleontological Monitor) shall conduct full-time monitoring throughout site excavation and grading activities. The monitor shall be equipped to salvage and/or record the location of historic and/or archaeological resources as they may be unearthed to avoid construction delays, consistent with the requirements of California Public Resources Code Section 21083.2. The monitor shall be empowered to temporarily halt or divert equipment to allow removal of abundant or large specimens or finds and to allow the preparation of recovered resources to a point of identification. One monitor for both archaeological and paleontological resources is sufficient if the monitor is qualified in both disciplines to the satisfaction of the City of Moreno Valley.</i>
4.7.2	<i>Should historic or prehistoric resources of potential significance be identified, a qualified archaeologist shall be contacted to assess the find(s) and make recommendations in regard to further monitoring. Resources shall be left in an undisturbed state where feasible. Where preservation in place is infeasible, all recovered resources shall then be curated in an established, accredited museum repository with permanent retrievable archaeological/historic resource storage. A report of findings shall also be prepared by a qualified archaeologist, and shall include an itemized inventory of any specimens recovered. The report and confirmation of curation of any recovered resources from an accredited museum repository shall signify completion of the program to mitigate impacts to archaeological/ historic resources. If disturbed resources are required to be collected and preserved, the applicant shall be required to participate financially up to the limits imposed by Public Resources Code Section 21083.2.</i>
4.7.3	<i>Prior to the issuance of a grading permit, a City-approved Project Paleontologist shall be retained to initiate and supervise paleontological mitigation-monitoring in all areas of the Project site, subject to the following certain constraints:</i> <ul style="list-style-type: none"> • <i>Once excavations reach ten (10) feet in depth, monitoring of excavation in areas identified as likely to contain paleontological resources by a qualified paleontological monitor or his/her representative must take place;</i> • <i>A paleontological mitigation-monitoring plan shall be developed before grading begins;</i> • <i>Paleontological monitors shall be equipped to salvage and/or record the location of fossils as they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates;</i> • <i>Monitors must be empowered to temporarily halt or divert equipment to allow removal of abundant or large specimens; and</i> <i>Monitoring may be reduced if the potentially fossiliferous units described herein are not present, or, if present, are determined upon exposure and examination by qualified paleontological personnel to have low potential to contain fossil resources.</i>

-665-

Item No. E.3

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.8	Biological Resources³
4.8.1	<i>Prior to the issuance of a grading permit, a “no touch” area shall be staked along the westerly limit of Project development as defined by the alignment of the scour wall proposed along the Quincy Channel. Importantly, the westerly limits of development shall be established so as to preclude potential permanent impacts to CDFW and/or Corps Jurisdictional Areas within the westerly adjacent Quincy Channel. Prior to the issuance of a grading permit, a City-approved Project biologist shall be retained to initiate and supervise monitoring of construction activities to ensure protection and preservation of adjacent Channel areas.</i>
4.8.2	<i>Prior to issuance of a grading permit, the proposed scour wall to be located between the developed Project site and the Quincy Channel shall be shown on the grading plans. Alignment of the scour wall shall be field-determined and physically delineated by the Project biologist in consultation with the City. Importantly, the scour wall alignment shall be established so as to preclude potential impacts to CDFW and/or Corps Jurisdictional Areas within the westerly adjacent Quincy Channel. Ongoing monitoring of construction activities shall be maintained throughout implementation of the scour wall to ensure protection and preservation of adjacent Channel areas.</i>
4.8.3	<i>Prior to issuance of a building permit, landscape and irrigation plans shall be approved which demonstrate that no invasive, non-native plants will be planted or seeded within 150 feet of the avoided riparian habitat along the Quincy Channel.</i>
4.8.4	<i>Prior to the issuance of <u>any</u> grading permits and prior to any physical disturbance of any jurisdictional areas, the applicant shall obtain a stream bed alteration agreement or permit, or a written waiver of the requirement for such an agreement or permit, from both the California Department of Fish and Wildlife and the U.S. Army Corps of Engineers. Written verification of such a permit or waiver shall be provided to the Community Development Department - Planning Division and the Public Works Department - Land Development Division.</i>
4.8.5	<i>Prior to issuance of a grading permit, the Applicant shall develop and implement a Habitat Mitigation and Monitoring Plan (HMMP) to restore impacted riparian (mulefat) habitat. Prior to implementation, the HMMP shall be reviewed and approved by the CDFW. If in its final design, the CDFW-approved HMMP involves use or restoration of USACE or RWQCB jurisdictional areas, USACE and/or RWQCB approval shall also be obtained. The HMMP shall, at a minimum, meet the following requirements:</i> <ul style="list-style-type: none"> • <i>A habitat replacement and/or enhancement ratio of at least 1:1 for temporary impact;</i>

3 The former California Department of Fish and Game (CDFG) is now called the California Department of Fish and Wildlife, or CDFW. References to this agency in Mitigation Measures 4.8.1 through 4.8.7 have been updated accordingly.

**Table 5.1-1
Mitigation and Implementation Summary Matrix**

Mitigation Measures

4.8.5 (continued)

- A success criterion of at least 80 percent cover of native riparian vegetation for replaced habitat; and
- Additional requirements, including a 3-year establishment period for the replacement habitat, regular trash removal, native plant re-vegetation for areas temporarily disturbed by construction and regular maintenance and monitoring activities to ensure the success of the mitigation plan; and
- Prior to the issuance of a grading permit, as part of the Project HMMP, appropriate maintenance and monitoring protocols will be developed in concert with CDFW based on final Project designs, and the ultimate scope, location, and type of mitigation reflected in the HMMP as approved by CDFW.

4.8.6 If possible, all vegetation removal activities shall be scheduled from August 1 to February 1, which is outside the general avian nesting season. This would ensure that no active nests would be disturbed and that removal could proceed rapidly. If vegetation is to be cleared during the nesting season (February 15 – July 31), all suitable habitat will be thoroughly surveyed for the presence of nesting birds within 72 hours prior to clearing. All surveys shall be performed by a qualified Project biologist to be retained by the Applicant and vetted by the City. The survey results shall be submitted by the Project Applicant to the Planning Division. If any active nests are detected, the nest(s) shall be flagged in the field and mapped on the construction plans along with a minimum 50-foot buffer and up to 300 feet for raptors, with the final buffer distance to be determined by the Project biologist. The buffer area shall be avoided until the nesting cycle is complete or it is determined that the nest has failed. In addition, the Project biologist will be present on the site to monitor vegetation removal to ensure that any nests, which were not detected during the initial survey, are not disturbed.

4.8.7 Within 30 days of site clearing activities, a pre-construction burrowing owl survey shall be conducted to document the presence/absence of any occupied owl burrows. Any owls present shall be passively or actively relocated following CDFW approved protocols, and with CDFW permission, prior to commencement of clearing. The survey shall be submitted to the Planning Division prior to issuance of a grading permit.

-667-

Item No. E.3

ENVIRONMENTAL CHECKLIST

Project Orion Distribution Center

Addendum to the Westridge Commerce Center Certified EIR

1. AESTHETICS

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Have a substantial adverse effect on a scenic vista?					X	
b) Substantially damage visible scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?					X	
c) Substantially degrade the existing visual character or quality of the site and its surroundings?					X	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?					X	

Summary

Potential aesthetic/visual impacts associated with the development of the subject site were previously analyzed within the 2011 Westridge Commerce Center Certified EIR, in Section 4.9, "Aesthetics."

The Certified EIR concluded that development of the subject site with the light industrial warehouse/distribution uses proposed by the Westridge Commerce Center project would result in a substantial adverse impact on a scenic vista, due to the Project's restriction and/or obstruction of scenic vistas. No mitigation was identified that would address this impact, which was determined significant and cumulatively considerable. All other aesthetic impacts were determined less-than-significant proximate to the Project site. Specifically, the visual

and aesthetic impacts of the distribution/warehouse project would be minimized through mandated conformance with the design guidelines, development standards, and performance standards articulated within the City of Moreno Valley Municipal Code. In this regard, development would, at a minimum, comply with design and development standards stipulated at Municipal Code Chapter 9.05, "Industrial Districts." Additionally, the Project will implement lighting and signage in conformance with applicable City standards, and will incorporate perimeter and internal landscaping/screening acting to reduce its potential visual/aesthetic impacts. Lighting would be implemented consistent with the City's Municipal Code, as well as Riverside County Ordinance 655, which regulates lighting of development proposals within 45 miles of the Mt. Palomar Observatory.

Industrial uses proposed by the Project Orion Distribution Center are similar in character and in scale when compared to Certified EIR project. As with the Certified EIR project, the Addendum Project would result in a substantial adverse impact on scenic vistas, which would remain significant and unavoidable. In approving the Westridge Commerce Center project, the City adopted a Statement of Overriding Considerations pursuant to CEQA Guidelines § 15091, et seq., recognizing this significant impact on scenic vistas. The Project Orion Distribution Center would not result in new significant impacts, or substantively increased or different impacts than would result from the development assessed under the Certified EIR.

Conformance with the City's existing design guidelines, development standards, and performance standards would ensure that the Addendum Project's potential to degrade the existing visual character or quality of the site and its surrounding, substantially damage visible scenic resources, or create potential light and glare impacts would be reduced to levels that are less-than-significant.

Previous conclusions of the Certified EIR regarding potential impacts related to: substantial adverse effects on scenic vistas; and substantial damage to visible scenic resources are not affected by the entitlements requested under the Addendum Project, and these impacts would remain less-than-significant. Based on the preceding, the Addendum Project would

not result in visual, aesthetic or light/glare impacts not considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010); Westridge Commerce Center Final EIR (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

2. AGRICULTURE AND FOREST RESOURCES

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?						X
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?						X
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 1220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?						X
d) Result in the loss of forest land or conversion of forest land to non-forest use?						X
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use, or conversion of forest land to non-forest use?						X

Summary

Potential agricultural impacts associated with the development of the Westridge Commerce Center were previously addressed within the Initial Study for the Certified EIR project, under Section 2, "Agricultural Resources." The Initial Study was included as Appendix A of the Westridge Commerce Center Draft EIR. Discussions of forest resources were not required at the time the 2009 Initial Study was prepared; however, revisions to the CEQA checklist that included additional environmental categories of review became effective in March 2010, prior to the publication of the Draft EIR. For this reason, potential impacts to forest lands or other forest resources were addressed as part of the Draft EIR's Section 1, "Executive Summary."

The Certified EIR Initial Study indicates that the Project site is designated as Farmland of Local Importance due to the high-quality, prime soils present at the site. Despite this designation by the Department of Conservation, the City of Moreno Valley has envisioned urban buildout of the site, as evidenced by the site's existing "Business Park" General Plan designation. Project site is not designated as Prime Farmland, Unique Farmland or Farmland of Statewide Importance by the California Department of Conservation, Farmland Mapping and Monitoring Program (FMMP). Proposed development activities would not affect any agriculturally-zoned properties (the Project site's zoning designation is currently "Light Industrial"), or any lands where a Williamson Act contract is currently in place. On this basis, the Certified EIR project was determined to have an insignificant impact on agricultural resources.

Similarly, the Project site does not contain forest lands or forest resources, and development of the site would not have the potential to convert forest land to non-forest uses. No changed or new information has been identified to indicate that any potential agriculture and/or forest resources impacts resulting from the Addendum Project would be different from those previously analyzed within the Certified EIR. That is, the subject site is not agriculturally-zoned, is not designated as forest land, is not forested or proposed for forestation, and is not subject to a Williamson Act contract. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

3. AIR QUALITY

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?					X	
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?					X	
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?					X	
d) Expose sensitive receptors to substantial pollutant concentrations?					X	
e) Create objectionable odors affecting a substantial number of people?					X	

Summary

The Certified EIR (in Section 4.2, “Air Quality,” and Appendix C, “Air Quality Impact Analysis”) addresses regional and local air quality issues including construction-source and operational-source emissions resulting from, or generated by, the Westridge Commerce Center development. The Certified EIR acknowledges that the Westridge Commerce Center would likely result in construction-source and operational exceedances of applicable South Coast Air Quality Management District (SCAQMD) thresholds, and a cumulatively considerable net increase in the emission of ozone-precursors within a designated non-attainment area.

In order to reduce construction and operational-source emissions of oxides of nitrogen (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), and particulate matter (PM₁₀ and PM_{2.5}) to the maximum extent feasible, mitigation measures 4.3.1 through 4.3.13 were incorporated in the Certified EIR. These measures have been carried forward within the Mitigation Summary of this Addendum (please refer to Addendum Section 3). Nonetheless, the Project's construction- and operational-source air quality impacts remained individually significant and cumulatively considerable.

An update to the Certified EIR's Air Quality Impact Analysis that provides a comparative analysis of the Addendum Project's potential to result in air quality impacts was prepared by Urban Crossroads, Inc. The purpose of this analysis was to determine whether the proposed changes in the Westridge Commerce Center project's building design to support the operations of the Project Orion Distribution Center would result in substantial changes to the air quality, greenhouse gas, or health risk assessment findings previously evaluated in the Certified EIR. A copy of the updated *Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment*, dated July 25, 2013, is included as Addendum Appendix C.

Construction-Source Emissions

The Certified EIR found that localized thresholds of significance would not be exceeded by the construction-source emissions from the Westridge Commerce Center project; however, emissions of CO and NO_x were found to exceed regional SCAQMD thresholds. It is conservatively assumed that construction activities associated with development of the Project Orion Distribution Center would parallel the scope of activities reflected in the Certified EIR analysis, and would result in comparable construction-source air quality emissions impacts. Based on the Addendum Project's reductions in building area, along with the implementation of current construction equipment emissions controls, it is likely that the Addendum Project would actually result in slight reductions in construction-source emissions when compared to the Certified EIR project. Even so, construction-source exceedances of CO and NO_x would likely persist under the Addendum Project, although they would not exceed levels identified under the Certified EIR project.

Operational-Source Air Quality Emissions

The Addendum Project's operational emissions would be generated from the following sources: vehicle trips, including tailpipe exhaust and fugitive dust related to vehicular travel; combustion associated with natural gas and electricity, including the power required to operate the facility's cold storage component; emissions from landscape maintenance equipment, consumer products (e.g., cleaning solutions); and architectural coatings (e.g., paints used for building maintenance). However, it is important to note that for any new development project, the largest source of air pollutant emissions (more than 95 percent by weight) is typically vehicular traffic. VOC, NO_x, and CO emissions are all byproducts of fuel combustion. Similarly, particulate matter emissions are a byproduct of fuel combustion; and also result from road and tire wear and generation of fugitive dust as vehicles travel along the road.

The following Table A-1 provides a summary comparing the operational emissions of the Certified EIR project with the emissions anticipated to be generated by the Addendum Project.

Table A-1
Peak Operational Emissions Comparison Using CalEEMod 2013 Methodology
Certified EIR Project vs. Addendum Project (Pounds per Day)

Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Certified EIR Analysis (Westridge Commerce Center)						
Area Source Emissions ¹	24.60	0.54	0.55	3.35e-3	0.04	0.04
Mobile Emissions ²	105.57	475.58	329.37	1.20	59.39	22.47
<i>Maximum Daily Emissions</i>	<i>130.16</i>	<i>476.12</i>	<i>329.92</i>	<i>1.20</i>	<i>59.43</i>	<i>22.51</i>
Addendum Project (Project Orion Distribution Center)						
Area Source Emissions ¹	25.75	3.99	3.49	0.02	0.30	0.30
Mobile Emissions ²	81.00	439.31	262.43	1.02	42.16	16.89
<i>Maximum Daily Emissions</i>	<i>106.75</i>	<i>443.30</i>	<i>265.93</i>	<i>1.04</i>	<i>42.47</i>	<i>17.20</i>
SCAQMD Threshold Emission Levels	55	55	550	150	150	55
Variance in Maximum Daily Emissions	(23.41)	(32.82)	(63.99)	(0.16)	(16.96)	(5.31)

Sources: Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment (Urban Crossroads, Inc.), Sept. 16, 2013.

Notes:

¹ Includes emissions of natural gas consumption, emissions of landscape maintenance equipment, and architectural coatings emissions.

² Includes emissions from vehicles and fugitive dust related to vehicular travel.

The peak operational emission levels included in Table A-1 reflect estimates of peak summer and winter emissions, utilizing whichever was highest. As seen in Table A-1, the Addendum Project would result in decreases in VOC, NO_x, CO, SO_x, PM₁₀ and PM_{2.5} emissions when compared to the Certified EIR project. Although emissions of VOCs and NO_x would not be reduced to levels that are below SCAQMD regional thresholds, they would be diminished in intensity. All mitigation measures identified in the Certified EIR would continue to be applicable to the Addendum Project. Significant operational air quality impacts identified as part of the Certified EIR would persist, but would not be exceeded with implementation of the Addendum Project.

Potential Impacts to Sensitive Receptors

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, child care centers, and athletic facilities can also be considered as sensitive receptors. The Certified EIR found that with mitigation, no sensitive receptors or off-site workers would be exposed to DPM-source cancer risks exceeding the SCAQMD's significance criteria.

Vehicular Diesel Particulate Matter (DPM) emissions from the Project Orion Distribution Center were estimated as part of the Air Quality Update Analysis (provided in Addendum Appendix C). As seen in the following Table A-2, under the Addendum Project, potential health risks would be reduced to levels that are below the SCAQMD's threshold of 10 in one million even without the implementation of mitigation measures. Regardless, all Certified EIR mitigation measures will be required as part of the Addendum Project's implementation, thus ensuring maximum reductions in DPM emissions and related health risks.

Table A-2
Summary of Health Risks¹
Certified EIR Project vs. Addendum Project (Risk per Million)

Analysis Scenario	Certified EIR Project (Westridge Commerce Center)	Addendum Project (Project Orion Distribution Center)	Variance
Without Mitigation			
Maximum Exposed Sensitive Receptor	10.1	6.1	(4.0)
Maximum Exposed Worker Receptor	3.1	1.2	(1.9)
With Mitigation			
Maximum Exposed Sensitive Receptor	6.9	5.6	(1.3)
Maximum Exposed Worker Receptor	2.0	1.1	(0.9)

Source: *Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment* (Urban Crossroads, Inc.), September 16, 2013.

Notes:

¹ The SCAQMD CEQA Air Quality Handbook (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a health risk assessment shows an increased risk of greater than ten in one million.

Conclusions

Based on the preceding discussions, the Addendum Project would not cause new significant, substantively increased or substantively different air quality impacts than those previously addressed in the Certified EIR. Potential air quality impacts associated with the Addendum Project are therefore adequately addressed within the Certified EIR.

Sources: *Westridge Commerce Center Draft EIR* (October 2010); *Westridge Commerce Center Final EIR* (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013); *Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment* (Urban Crossroads, Inc., July 2013).

4. BIOLOGICAL RESOURCES

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?					X	
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies and regulations; or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?					X	
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?					X	
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?					X	
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?					X	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?					X	

Summary

As discussed at Certified EIR Section 4.8, "Biological Resources," the Certified EIR relied on biological assessments performed between 2008 and 2010, including a general biological reconnaissance survey, a burrowing owl survey, surveys of off-site areas involved in project development, and a jurisdictional delineation. Mitigation was incorporated to ensure the protection and preservation of riparian areas associated with the Quincy Channel, which is adjacent to the site's westerly boundary. In addition, a streambed alteration agreement or permit, along with the implementation of a Habitat Mitigation and Monitoring Plan (HMMP) to restore impacted riparian (mulefat) habitat would be required prior to the issuance of Project building permits. Mitigation measures designed to protect nesting birds in general, and specifically the burrowing owl, which is a California Species of Concern with the potential to occur onsite, were also incorporated in the Certified EIR. With the implementation of these mitigation measures, potential impacts to biological resources and habitat areas were determined less-than-significant. As with the Certified EIR project, development allowed by the Project Orion Distribution Center would be required to implement each of these mitigation measures to ensure the protection of biological resources and riparian habitat and/or wetland within areas affected by the Project. The text of each mitigation measure is provided in Addendum Section 5, "Mitigation Summary."

Based on the preceding discussion, with the application of mitigation summarized above, development of the Project Orion Distribution Center would not result in or cause new significant, substantively increased, or substantively different biological resources impacts than those previously addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010); Westridge Commerce Center Final EIR (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

5. CULTURAL RESOURCES

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Cause a substantial adverse change in the significance of a historical or archaeological resource as defined in Section 15064.5?					X	
b) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?					X	
c) Disturb any human remains, including those interred outside of formal cemeteries?					X	

Summary

As discussed in the Certified EIR (Section 4.7, "Cultural Resources"), the site does not contain any known archaeological, paleontological, or historical resources. Notwithstanding, it is possible that such resources could be discovered as part of a cultural resources survey, or during earth moving operations on-site. Accordingly, mitigation incorporated in the Certified EIR required that archaeological and paleontological monitoring be conducted during earthmoving activities associated with Project construction. These same measures would be implemented pursuant to development permits issued for, or in support of the Addendum Project.

Revised entitlements requested under the Addendum Project would not alter or otherwise affect the scope of and location cultural resources considered in the Certified EIR. As with the Certified EIR project, the Addendum Project is required to mitigate potential impacts to cultural resources by conducting monitoring during construction activities, with accompanying reporting, recovery, cataloguing and preservation procedures for resources that might be encountered within the subject site. On the basis of the preceding discussions, the Addendum Project would not result in cultural resources impacts not considered and

addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010); Westridge Commerce Center Final EIR (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

6. GEOLOGY AND SOILS

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: (i) rupture of a known earthquake fault; (ii) strong seismic ground shaking; (iii) seismic-related ground failure, including liquefaction; or (iv) landslides?					X	
b) Result in substantial soil erosion or the loss of topsoil?					X	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?					X	
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?					X	
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?						X

Summary

Potential geology and soils impacts associated with the development of the Westridge Commerce Center were previously addressed within the Initial Study for the Certified EIR project (Draft EIR Appendix A), under Checklist Item 6, "Geology and Soils." A site-specific Geotechnical Investigation was prepared and included as Initial Study Appendix C. This study indicates that no known or potentially active earthquake faults have been identified within the Project site, and that the site is not located within an Earthquake Special Studies zone (formerly referred to as an Alquist-Priolo earthquake fault zone), nor are liquefaction or landsliding of substantial concern. The Initial Study analysis acknowledges that, like all of southern California, the site is considered generally susceptible to seismic events; however, the application of established Uniform Building Code seismic design, engineering, and construction standards would ensure that, short of a catastrophic event, Project structures and infrastructure utilize appropriate measures to withstand anticipated seismic activity. Potential erosion impacts incurred during Project construction activities would be reduced below the level of significance through preparation of, and compliance with, a Storm Water Pollution Prevention Plan (SWPPP), as required by the City's NPDES permit. Additionally, based on the recommendations of the Geotechnical Investigation, engineered fill soils would be placed under habitable building areas as part of Project construction, serving to minimize the potential for soil instability, including lateral spreading, subsidence and collapse, as a result of Project implementation.

As with the Certified EIR project, design and construction of the Project Orion Distribution Center will be realized consistent with recommendations and requirements of a site-specific Geotechnical Investigation, as well as application of established Uniform Building Code seismic design, engineering, and construction standards. The Project proponent would be required to file and comply with a City-approved SWPPP prior to initiation of construction activities, to address construction-related erosion. It is anticipated that any problematic soils encountered on-site will be replaced with engineered fill as part of Project construction, pursuant to the Project's Geotechnical Investigation, thereby minimizing the potential for soil instability. Additionally, the Project will be connected to the City's existing municipal sewer system. Septic tanks or other alternative wastewater disposal systems are not proposed.

Based on the preceding, the Addendum Project would not result in geology and soils impacts not considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010); Westridge Commerce Center Final EIR (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

7. GREENHOUSE GAS EMISSIONS

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?					X	
b) Conflict with any applicable plan, policy or regulation of an agency adopted for the purposed of reducing the emissions of greenhouse gases?					X	

Summary

Consideration of greenhouse gases (GHGs) and potential effects of GHGs on global climate change were addressed as part of the Certified EIR’s Section 4.3, “Air Quality.” Although potential GHG impacts were determined to be less-than-significant, mitigation measures 4.3-11 through 4.3-13 were identified to reduce Project related operational source air pollutants and GHG emissions to the extent feasible, and to promote sustainability through conservation of energy and other natural resources.. The Project Orion Distribution Center would be required to comply with these measures, in addition to all applicable mandatory regulatory requirements imposed by the State of California and the South Coast Air Quality Management District aimed at the reduction of air quality and GHG emissions. Regulatory

requirements that are applicable to the Project and that would assist in the reduction of GHG emissions include the following:

- Global Warming Solutions Act of 2006 (AB 32), establishes a comprehensive program to reduce greenhouse gas emissions from all sources throughout the State;
- Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies (SB 375), provides GHG emissions reductions strategies at regional and community tiers;
- Pavely Fuel Efficiency Standards (AB 1493), establishes fuel efficiency ratings for new vehicles;
- Title 24 California Code of Regulations (California Building Code), establishes energy efficiency requirements for new construction;
- Title 20 California Code of Regulations (Appliance Energy Efficiency Standards), establishes energy efficiency requirements for appliances;
- Title 17 California Code of Regulations (Low Carbon Fuel Standard), requires carbon content of fuel sold in California to be 10 percent less by 2020;
- California Water Conservation in Landscaping Act of 2006 (AB 1881), requires local agencies to adopt the Department of Water Resources updated Water Efficient Landscape Ordinance or equivalent by January 1, 2010 to ensure efficient landscapes in new development and reduced water waste in existing landscapes;
- Statewide Retail Provider Emissions Performance Standards (SB 1368), requires energy generators to achieve performance standards for GHG emissions; and
- Renewable Portfolio Standards (SB 1078), requires electric corporations to increase the amount of energy obtained from eligible renewable energy resources to 20 percent by 2010 and 33 percent by 2020.

It is acknowledged that development of the subject site under either of the considered development scenarios (2011 Certified EIR or Project Orion Distribution Center) would generate GHG emissions. GHG emissions would result directly from the use of energy (based on combustion associated with natural gas and electricity generation); water supply, treatment and distribution; and vehicle use. Additional GHG emissions are the indirect result of the anaerobic breakdown of waste materials in landfills. The following Table A-3 compares the operational greenhouse gas (GHG) emissions of the Certified EIR project with the GHG

emissions anticipated to be generated by the Addendum Project, and converting emissions to their carbon dioxide equivalents (CO_{2e}) where applicable.

Table A-3
GHG Emissions Summary Comparison
Certified EIR Project vs. Addendum Project (Metric Tons of CO_{2e} per Year)

Emission Source	CO₂	CH₄	N_{2o}	CO_{2e}
Certified EIR Project (Westridge Commerce Center)				
Annual construction-related emissions ¹	174.16	0.0104	0.522	338.32
Natural Gas	141.10	0.02	0.022	148.53
Landscaping	0.51	--	--	0.51
Mobile Sources	27,724.82	0.35	0.41	27,858.08
Electricity Energy	732.09	0.08	0.03	741.71
Solid Waste Generation	--	22.60	--	474.67
Water Usage	39.63	0.002	0.0005	39.81
Refrigerant Leakage	--	--	--	401.75
<i>Subtotal Transportation Sources</i>				27,858.08
<i>Subtotal Non-Transportation Sources</i>				2,145.31
<i>Total CO_{2e}</i>				30,003.39
Addendum Project (Project Orion Distribution Center)				
Annual construction-related emissions ²	174.16	0.0104	0.522	338.32
Natural Gas	792.32	0.02	0.02	797.14
Landscaping	--	--	--	--
Mobile Sources	16,783.54	0.37	--	16,787.99
Electricity Energy	3,360.50	0.20	0.03	3,644.71
Solid Waste Generation	152.73	89.96	--	229.47
Water Usage	23.41	0.17	3.81e-3	27.83
Refrigerant Leakage	--	--	--	343.10
<i>Subtotal Transportation Sources</i>				16,787.99
<i>Subtotal Non-Transportation Sources</i>				5,380.57
<i>Total CO_{2e}</i>				22,168.56
Variance in Annual GHG Emissions				(7,834.83)

Sources: Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment (Urban Crossroads, Inc.), Sept. 16, 2013.

Notes:

¹ Amortized over 30 years.

² Emissions previously quantified for the Westridge Commerce Center were utilized in this assessment, amortized over 30 years.

As seen in Table A-3, the Addendum Project would generate a total of approximately 27,400 metric tons of GHG emissions (CO_{2e}) annually, which is approximately 2,595 metric tons less than was estimated to be generated by the Certified EIR project. As with the Certified EIR project, mitigation measures identified to further GHG emissions would be applied to the Addendum Project, in order to achieve the maximum feasible reductions. On this basis, the Addendum Project would not cause new significant, substantively increased or substantively different greenhouse gas emission impacts than those previously addressed in the Certified EIR.

Sources: Westridge Commerce Center Draft EIR (October 2010); Westridge Commerce Center Final EIR (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013); Westridge Commerce Center Air Quality, Greenhouse Gas, and Health Risk Impact Assessment (Urban Crossroads Inc., July 2013).

8. HAZARDS AND HAZARDOUS MATERIALS

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?					X	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?					X	
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within ¼ mile of an existing or proposed school?						X

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?					X	
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?						X
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?						X
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?					X	
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?					X	

Summary

Potential hazards and hazardous material impacts resulting from, or affecting the Westridge Commerce Center are discussed in the Certified EIR Initial Study (Draft EIR Appendix A), under Item 7, "Hazards and Hazardous Materials." As discussed in the Initial Study, based on information provided by the California Department of Toxic Substances Control (DTSC), the site is not identified on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. It was acknowledged that the Certified EIR project would

require limited transportation and use of potentially hazardous materials (e.g., paints, solvents, fertilizer, etc.) as part of construction and ongoing maintenance activities onsite. However, this type of storage, transfer, use and disposal of potentially hazardous materials is extensively regulated at the local, State and federal levels. The Project's potential impacts based on the routine transport, use, or disposal of hazardous materials, and the likelihood of accidental release of hazardous materials were determined to be less-than-significant.

There are no airports or air strips within two miles of the Project site; thus there is no potential for air safety impacts to affect the site. Nor are any schools located within one-quarter mile of the Project site. On this basis, the Project was found to have no potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. The Project site is not identified as being located within or adjacent to an area of high fire risk, and no potential impacts relative to wildland fire hazards were anticipated.

An assessment of the Project's emergency response times and routing for fire protection services was included in the Certified EIR's analysis of traffic impacts, to ensure that adequate emergency access to the Project site and surrounding areas could be provided. As noted in the Certified EIR, "Until Fir (future Eucalyptus) Avenue is improved to its ultimate General Plan configuration, which would involve the construction of a Quincy Channel overcrossing, no direct access to the Project site from Station 58 [the fire station located nearest the Project site, approximately one-quarter mile to the west] is available." An addendum to the Project's Traffic Impact Analysis (TIA) was prepared, which demonstrated that emergency response times for fire protection vehicles would range from 2.8 to 4.2 minutes. These response times are well within the City's existing General Plan objective for emergency fire response, which uses a standard requiring "the first unit arriving on the scene of a fire [to arrive] within five minutes of dispatch ... 90 percent of the time." (Certified EIR, p. 4.2-87).

As with the Certified EIR project, the Addendum Project does not propose the handling of acutely hazardous materials. There is potential limited use of potentially toxic or hazardous materials such as gasoline, paint, cleaners/solvents, pesticides/herbicides, that would be

employed during construction activities and during ongoing operations and maintenance of the developed site. Transportation, use, storage and disposal of these substances are extensively addressed through local, regional, state, and federal regulations. In this latter regard, pursuant to Chapter 6.95 of the State Health and Safety Code, the Project is required to develop and file a Hazardous Materials Business Plan (HMBP). The HMBP contains basic information on the location, type, quantity, and health risks of hazardous materials stored, used, or disposed of in the course of Project operations. The HMBP as implemented ensures an accurate inventory of materials on-site, establishes an emergency response plan and owner/operator identification, and mandates employee training that acts to preclude or minimize the potential for misuse, release, or improper disposal of hazardous materials.

As demonstrated in the Certified EIR, development within the Project site would not be adversely affected by increased emergency fire response times; nor would emergency evacuation routes, or emergency evacuation plans be affected by Project development.

Based on the preceding, no changed or new information has been identified to indicate that any potential hazards/hazardous materials impacts of the Addendum Project would be substantively different from those previously analyzed within the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010); Westridge Commerce Center Final EIR (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

9. HYDROLOGY AND WATER QUALITY

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Violate any water quality standards or waste discharge requirements?					X	
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (for example, the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?					X	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?					X	
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?					X	
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?					X	
f) Otherwise substantially degrade water quality?					X	

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?						X
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?						X
g) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?						X
h) Inundation by seiche, tsunami, or mudflow?						X

Summary

As discussed in Certified EIR Section 4.6, “Hydrology and Water Quality,” the proposed implementation of the Westridge Commerce Center project was found to have a less-than-significant effect in regard to flooding and storm water management. The site is not located within an identified 100-year floodplain; nor is the site subject to inundation by seiche, tsunami, or mudflow. On this basis, the Project was not found to have the potential to expose people or structures to a significant risk of loss, injury or death involving flooding.

In regard to water quality, compliance with applicable regulations of the Regional Water Quality Control Board (RWQCB) pursuant to federal water quality standards, and criteria established under the Clean Water Act is mandatory for new development projects. In combination, requirements and procedures established under these regulations effectively mitigate any potentially adverse water quality impacts of new development.

More specifically, stormwater management systems servicing either the Certified EIR project or the Addendum Project are required to be completed in accordance with the City of

Moreno Valley and County of Riverside standards. All new development projects are required to develop and implement a City-mandated Stormwater Pollution Prevention Plan (SWPPP) during construction, and a Water Quality Management Plan (WQMP) for on-site operations. New development is also required to comply with applicable provisions of the National Pollutant Discharge Elimination System (NPDES) permit, to which the City is a participant party. In aggregate, implementation of the approved stormwater management system, Certified EIR mitigation measures, and compliance with provisions of the SWPPP, WQMP, and NPDES permit would adequately address potential impacts related to:

- Violation of any water quality standards or waste discharge requirements;
- Alteration of existing drainage patterns resulting in substantial erosion or siltation;
- Alteration of existing drainage patterns in a manner which would result in flooding;
- Creation or contribution of runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff;
- Violation of any water quality standards or waste discharge requirements; or
- Other substantial degradation of water quality.

The scope and character of entitlements proposed under the Project Orion Distribution Center are not substantially different from those considered in the Certified EIR. As such, implementation of the Addendum Project would not result in new, additional, or different hydrology impacts than were considered and addressed in the Certified EIR. That is, under either of the potential development scenarios, flooding risks would remain less-than-significant. Consistent with established City and Riverside County regulations, and prior to the issuance of building permits, the developer will prepare and submit a site-specific study reflecting precise pad locations, proposed drainage structures, and other measures, which

include a planned on-site retention area, to ensure that stormwater discharges are adequately managed and appropriately conveyed.

Additionally, a City-approved SWPPP would be required for development under either the Certified EIR or the Addendum Project. This plan would act to mitigate potential erosion and associated potential adverse altering of drainage patterns during construction. A City-approved WQMP was included in the Certified EIR (please refer to Draft EIR Appendix F), which provided detailed structural and operational BMPs to be implemented in order to avoid potential erosion impacts, drainage alteration, or contribution of stormwater pollutants over the life of the development. NPDES permit compliance is mandated irrespective of the proposed development scheme.

Further, under all potential development scenarios, payment of fees to fund construction of areawide drainage improvements, and implement site-specific stormwater management systems is required. All drainage plans and improvements would be designed and implemented consistent with City, County, and Regional Water Quality Control Board standards. With regard to potential impacts to groundwater and water supplies, no direct groundwater withdrawals are proposed under the Certified EIR project or the Addendum Project.

Based on the preceding, potential hydrology, water quality, and water supply impacts associated with the Addendum Project are adequately addressed within the Certified EIR. No substantive changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010); Westridge Commerce Center Final EIR (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

10. LAND USE AND PLANNING

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Physically divide an established community?						X
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?					X	
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?					X	

Summary

An analysis of potential land use impacts is included in the Certified EIR at Section 4.1, "Land Use and Planning." In summary, the analysis characterizes the subject site's existing condition as vacant undeveloped property, surrounded by new industrial warehouse/distribution uses, agricultural uses and vacant land. No established communities would be divided by the Certified EIR project.

The subject site remains vacant and undeveloped and as such, there remains no potential to physically divide an established community. Development of the Addendum Project would, as with the Certified EIR project, result in the transition of undeveloped vacant properties to urban uses. Similar to the Certified EIR project, all development within the subject site would be governed by City-approved development regulations, thereby precluding or minimizing potential land use impacts. These potential impacts include the potential to conflict with any applicable land use plan, policy, or regulation.

With the approval of the Westridge Commerce Center, a change in zoning was processed, establishing a zoning designation of “Light Industrial” for the subject site. This zoning designation permits the uses proposed by the Addendum Project, and no additional revisions to land use or zoning designations are necessary or proposed.

The Addendum Project proposes the development of light industrial warehouse/distribution uses similar to those assessed by the Certified EIR, and as such, the Addendum Project would not result in or cause, additional, or substantially different significant land use impacts than those assessed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010), SCH 2009101008; Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

11. MINERAL RESOURCES

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?						X
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?						X

Summary

The topic of minerals was addressed within the Initial Study prepared for the Westridge Commerce Center at Item 10, “Mineral Resources.” Based on information presented in the Moreno Valley General Plan (page 7-14), the Westridge Commerce Center was found to have no impact on mineral resources. More specifically, mineral resources within the City of Moreno Valley are comprised primarily of common materials, such as sand, gravel, and rock.

There are no rare or limited mineral such resources known to exist on the Project site that would be of specific value to residents of the region or State.

The Addendum Project would similarly not affect any mineral resources of local, regional, or statewide importance. Neither would implementation and/or operations of the Addendum Project affect mineral resources otherwise of local, regional, or statewide importance. No changed or new information has been identified to indicate that the Addendum Project would result in any potential impacts not previously considered and addressed within the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010), SCH 2009101008; Westridge Initial Study (September 2009); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

12. NOISE

Would the project result in:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?					X	
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?					X	
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?					X	
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?					X	

Would the project result in:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?						X
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?						X

Summary

The Certified EIR addresses noise impacts at Section 4.4, “Noise,” considering the project’s compatibility with, and context within, existing and future noise environments. The Certified EIR also addressed the potential for noise from the construction and operation of the proposed uses to impact existing and proposed noise-sensitive receptors. The Certified EIR concluded that even with application of mitigation measures, temporary construction-source noise received at proximate residential properties would be significant and unavoidable. In approving the Certifying the EIR for the Westridge Commerce Center Project, the City adopted a Statement of Overriding Considerations pursuant to CEQA Guidelines § 15091, et seq., recognizing the Project’s temporary but significant construction-source noise impact. All other potential noise-related impacts were deemed either less-than-significant, or could be reduced to less-than-significant levels with the application of mitigation.

The scope and character of entitlements proposed under the Project Orion Distribution Center are similar to those considered in the Certified EIR. As such, implementation of the Addendum Project would not result in new, additional, or different construction noise impacts than were considered and addressed in the Certified EIR. Construction of the Addendum Project would employ similar equipment, operating under City Noise Ordinance constraints and limitations, also applicable to the Certified EIR project. No new or additional

sensitive receptors would be affected by the Addendum Project construction activities, and noise levels received at off-site land uses would be consistent with noise levels considered in the Certified EIR. These noise levels are expected to exceed City thresholds when construction equipment is operating near the Project's boundaries. All mitigation measures required of the Certified EIR project (presented within Section 5 of this Addendum) would also be applicable to the Addendum Project, which would reduce construction-related noise to the extent feasible. However, as with the Certified EIR Project, construction noise threshold exceedances associated with the Addendum Project would be considered a significant temporary impact, which would be cumulatively considerable for the duration of construction, but which would cease entirely upon the completion of construction activities.

In regard to operational noise, the Certified EIR determined that noise from the Westridge Commerce Center's operations would not exceed the City's most restrictive nighttime noise threshold of 55 dBA at the nearest sensitive receptor. The Project Orion Distribution Center proposes uses of similar to those assessed within the Certified EIR, and as such, is expected to generate the same types of operational noise, resulting in less-than-significant operational noise levels for the Addendum Project.

More specifically, based on the analysis contained within the Certified EIR, operational mobile source noise generated by the Westridge Commerce Center would not substantially increase noise levels (greater than 3 dBA) or exceed City standards in this regard. As presented in the Traffic Impact Assessment prepared to compare the Addendum Project to the Westridge Commerce Center project (included in Addendum Appendix B), the total daily traffic volumes generated by the Addendum Project would be approximately 25 percent less than those described and considered in the Certified EIR.¹ As such, the areawide effects of mobile-source related noise under the Addendum Project would be commensurately reduced.

All other CEQA noise considerations, including groundborne noise or vibration and airport-related noise, were determined to be less-than-significant for the Certified EIR project, and would remain less-than-significant under the Addendum Project. Based on the preceding, the Addendum Project would not result in new, additional, or substantially different operational

¹ Please refer also to the discussion of comparative traffic volumes presented at Checklist Item 16, "Transportation/Traffic."

noise impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010), SCH 2009101008; Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013); Westridge Commerce Center Traffic Impact Assessment (Urban Crossroads Inc., July 2013).

13. POPULATION AND HOUSING

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Induce substantial growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?					X	
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?						X
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?						X

Summary

Potential population and housing impacts of the Certified EIR project were analyzed within the Initial Study prepared for the project (Checklist Item 12, “Population and Housing”). The discussion determined that the project would not result in population growth exceeding that anticipated under the City’s General Plan. Because the Project site is comprised of vacant land, development of the proposed industrial uses would not result in the displacement of housing or persons, necessitating the construction of replacement housing elsewhere. Nor would the project otherwise adversely affect the availability of housing, or the availability of supporting services and facilities. The potential for the project to induce substantial growth

in the area; displace substantial numbers of existing housing units; or displace substantial numbers of people was therefore determined to be less-than-significant.

Industrial uses proposed by the Project Orion Distribution Center are similar in character and scale to the Westridge Commerce Center, and as such the Addendum Project would not result in new, additional, or substantially different population and housing impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010), SCH 2009101008; Westridge Commerce Center Initial Study (September 2009); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

14. PUBLIC SERVICES

Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any public service:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Fire protection?					X	
b) Police protection?					X	
c) Schools?					X	
d) Parks?					X	
e) Other public facilities?					X	

Summary

The Initial Study prepared for the Westridge Commerce Center (Item 13, “Public Services”) addressed potential impacts to public services, including fire and police protection services, schools, recreation facilities, and other public services. Potential impacts were determined to be less-than-significant.

In general terms, the most substantial demands for fire protection services, police protection services, school services, parks and “other” governmental services are based on residential populations, and increased demand is derived largely from new residential construction. The Addendum Project does not propose new or additional residential development. Further, as with the Certified EIR project, applicable development fees that are used, in part, to fund public services for new development are also broadly applicable to the Addendum Project, and would reduce any of the Addendum Project’s potential public facilities and utilities impacts to levels that are less-than-significant.

Based on the preceding discussions, the Addendum Project would not result in new, additional, or different public services impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010), SCH 2009101008; Westridge Commerce Center Initial Study (September 2009); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

15. RECREATION

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?					X	
b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?						X

Summary

The Initial Study prepared for the Westridge Commerce Center addressed potential impacts to recreational facilities at Checklist Item 14. No significant impacts were identified.

The Addendum Project's proposed distribution warehouse uses will not directly result in resident population increases, which typically act as principal drivers for recreational facilities. No direct increased demand for recreational facilities would be anticipated under the Addendum Project, and demands for recreational facilities and services would be similar to those of the Certified EIR project. Requisite development fees required of the Certified EIR project are also applicable to the Addendum Project, and would reduce the Addendum Project's potential parks and recreation facilities impacts to levels that are less-than-significant.

Based on the preceding discussion, the Addendum Project would not result in new, additional, or different recreation impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: *Westridge Commerce Center Draft EIR* (October 2010), SCH 2009101008; *Westridge Commerce Center Initial Study* (September 2009); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

16. TRANSPORTATION/TRAFFIC

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?					X	
b) Conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads and highways?					X	
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?						X
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?					X	
e) Result in inadequate emergency access?					X	
f) Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?					X	

Summary

The Certified EIR discussion of traffic and circulation (Certified EIR Section 4.2) indicates that even with the implementation of mitigation, certain traffic and circulation impacts of the Certified EIR Project would remain significant. In these instances, because the timely completion of required improvements cannot be assured, impacts were determined significant and unavoidable, and cumulatively considerable. In Certifying the EIR for the Westridge Commerce Center Project, the City adopted a Statement of Overriding Considerations pursuant to CEQA Guidelines § 15091, et seq., recognizing these significant traffic and circulation impacts.

Traffic impacts of the Addendum Project as compared to impacts of the Certified EIR Project presented in *Westridge Commerce Center – Traffic Impact Assessment Update* (Urban Crossroads, Inc.) September 13, 2013 (TIA Update). The TIA Update in its entirety is provided at Addendum Appendix B.

Without replicating the TIA Update in detail here, relative traffic impacts of the Addendum Project and the Certified EIR Project can be approximated by comparing trip generation characteristics of the two development scenarios. To this end, trip generation characteristics of the Addendum Project are compared with the Certified EIR Project at Table A-4. Please refer to the TIA for details regarding the Addendum Project trip generation characteristics.

Table A-4
Trip Generation Comparison
Certified EIR Project vs. Addendum Project

Vehicle Types ¹	Certified EIR Project (Westridge Commerce Center)			Addendum Project (Project Orion Distribution Center)		
	AM Peak Hour	PM Peak Hour	Daily Total	AM Peak Hour	PM Peak Hour	Daily Total
Passenger Cars ²	47	56	729	37	39	400
Truck Trips (PCE)³						
2-axle (1.5 PCE)	9	11	145	0	0	0
3-axle (2.0 PCE)	29	34	440	0	0	0
4+-axle (3.0 PCE)	105	124	1,616	105	45	1,800
Net truck trips (PCE)	143	169	2,201	105	45	1,800
Total Trips (PCE)	191	225	2,930	142	84	2200
Percent Change	NA	NA	NA	(25%)	(63%)	(25%)

Sources: *Westridge Commerce Center Traffic Impact Assessment* (Urban Crossroads, Inc., July 2013); *Westridge Commerce Center Draft EIR* (Applied Planning, Inc.) October 2010.

Notes:

¹ For the Certified EIR project, the vehicle mix was consistent with the City of Fontana Truck Trip Generation Study for LU030; PCE rates were per SANBAG; and High Cube Warehouse Trip Generation source data was from NAIOP-City of Moreno Valley Hybrid Rates, September 14, 2007. For the Addendum Project, daily passenger car and truck trips are based on information provided by the Project applicant.

² For the Addendum Project, passenger car trips are based on the anticipated peak hour trips produced by corporate office employees only, as identified by the Project applicant. Warehouse and maintenance employees were not included as they are anticipated to arrive and depart outside of peak periods.

³ Truck trips are based on the anticipated future warehouse trips, as identified by the Project Applicant.

As indicated at Table A-4, the Addendum Project would incrementally reduce total daily and peak hour traffic volumes when compared to trip estimates developed for Certified EIR project. More specifically, the Addendum Project would generate a total of 2,200 trips daily,² of which 142 trips would occur during the morning peak hour period (7 a.m. to 9 a.m.), and 84 trips would occur during the evening peak hour period (4 p.m. to 6 p.m.). In contrast, the Certified EIR project was estimated to generate 2,930 trips daily, of which 191 would have occurred during the morning peak hour period and 225 of which would have occurred during the evening peak hour. It is further noted that trip distribution characteristics of the Certified EIR project and the Addendum Project are anticipated to be comparable.

Since the Addendum Project trip generation would not exceed the trip generation under the Certified EIR project, and trip distribution characteristics are substantively unchanged, it is

² All trip volumes are expressed in terms of Passenger Car Equivalent (PCEs).

inferred that traffic impacts of the Addendum Project would not be significantly greater than, or different than those identified by the Certified EIR. However, under either the Certified EIR project or the Addendum Project, even with the implementation of mitigation, certain significant traffic and circulation impacts identified previously in the Certified EIR would remain significant. The Addendum Project would not, however, increase the severity of these impacts, or result in or cause new potentially significant impacts, or result in or cause new significant and unavoidable impacts. In point of fact, because peak hour and total daily trip generation would be comparatively reduced under the Addendum Project, the Addendum Project's traffic impacts at individual intersections and in aggregate would likely be reduced when compared to impacts of the Certified EIR Project.

Other CEQA transportation/traffic considerations (potential to result in a change in air traffic patterns, resulting in substantial safety risks; potential to substantially increase hazards due to a design feature; potential to result in inadequate emergency access; potential to conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities) were determined to be less-than-significant for the Certified EIR project, and would remain less-than-significant under the Addendum Project. That is, all circulation system designs and improvements would comply with City engineering requirements, and no transportation/traffic design hazards are proposed or are anticipated. Similarly, emergency access will be provided and maintained consistent with City and Fire Department requirements. Emergency response times identified as part of the Certified EIR's analysis would remain substantially the same with development of the Addendum Project.

Current design concepts identify appropriate provision of pedestrian/bicycle paths and connections, including a pedestrian/bike trail segment along Fir (future Eucalyptus) Avenue, and the Project will be required to accommodate bike racks and/or secured bicycle storage consistent with City requirements. Bus routes and transit facilities serving the Project site and surrounding areas would be implemented by transit service providers consistent with ridership demands. On this basis, the Addendum Project would not propose elements or operations that would conflict with alternative transportation modes.

Based on the preceding discussions, the Addendum Project would not result in new, additional, or different traffic/transportation impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010); Westridge Commerce Center Final EIR (April 2011); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013); Westridge Commerce Center Traffic Impact Assessment Update (Urban Crossroads Inc., July 17, 2013).

17. UTILITIES AND SERVICE SYSTEMS

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?					X	
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?					X	
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significance environmental effects?					X	
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?					X	

Would the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?					X	
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?					X	
g) Comply with federal, state, and local statutes and regulations related to solid waste?					X	

Summary

The Initial Study prepared for the Westridge Commerce Center addressed potential impacts to water and sewer facilities, wastewater treatment facilities, other utilities systems, solid waste disposal services at Checklist Item 16, "Utilities and Service Systems." Potential impacts were determined to be less-than-significant. Notwithstanding, the topic of water supply was discussed further in the Certified EIR at Section 4.5, "Water Supply."

Water supply and wastewater treatment are provided to the Project site by the Eastern Municipal Water District (EMWD). As presented within the Certified EIR, subject to conditions stipulated in the project Water Supply Assessment (WSA) and reflected in EIR mitigation measures, water demands of the Project can be met with no adverse effects on water supplies or water resources, including groundwater. It is noted that, for planning purposes, EMWD uses a per-acre factor to estimate water demand based on land use type. The Westridge Commerce Center Project, as a light industrial land use, was estimated to require 700 gallons per day (GPD) per acre, or a total of 38,857 GPD, which is equivalent to approximately 44 acre-feet per year. Acreage under the Project Orion site plan concept totals 52.095 acres, with no change in land use. On this basis, the Project Orion Distribution Center

would require approximately 36,467 GPD, or approximately 41 acre-feet per year. Thus, the Addendum Project would have a slightly reduced demand for water when compared to the Certified EIR project, and any potential impacts associated with the Project Orion Distribution Center would be adequately addressed within the scope of the Certified EIR mitigation measures, which are included in Addendum Section 5, "Mitigation Summary."

EMWD would provide wastewater treatment services for the Project site through the Moreno Valley Regional Water Reclamation Facility. Although this treatment facility has typical daily flows of approximately 11 million gallons per day (mgd), it has a capacity of 16 mgd, and plans to ultimately expand to accommodate 41 mgd. Wastewater generation of the Westridge Commerce Center was estimated to be approximately 31,000 gallons per day (gpd). This represents 0.1 percent of the treatment facility's existing capacity and 0.07 percent of the plants ultimate capacity. Since the Addendum Project proposes slightly less square footage than the Certified EIR project, wastewater generation is considered comparable. As with the Certified EIR project, the Addendum Project would comply with all applicable regulations of the City, County, State and Regional Water Quality Control Boards, and will be required to pay water and sewer connection fees established by EMWD to support the maintenance and planned improvement of existing infrastructure.

In regard to solid waste, the Project site would be served by Waste Management of the Inland Empire, which utilizes three (3) local landfills. According to the California Integrated Waste Management Board, estimated disposal rates are 0.0108 tons of solid waste per square feet per year for warehouse and office uses. Using this generation factor, the Certified EIR project would generate 10,193 tons of solid waste per year, or 28 tons per day. Based on the slight reduction in size, the Addendum Project would generate approximately 10,080 tons of solid waste per year.

As with the Certified EIR project, the Addendum Project would design, implement, operate, and maintain all utilities systems and system connections consistent with City and purveyor requirements. Additionally, all mitigation incorporated in the Certified EIR would be carried forward as part of the Addendum Project. The text of each mitigation measure is provided in Addendum Section 5, "Mitigation Summary." Based on the preceding, the Addendum

Project would not result in new, additional, or different impacts than were considered and addressed in the Certified EIR. No changes or additions to the Certified EIR analysis are necessary.

Sources: Westridge Commerce Center Draft EIR (October 2010), SCH 2009101008; Westridge Commerce Center Initial Study (September 2009); Preliminary plans for the Project Orion Distribution Center (ALDI, June 2013).

18. MANDATORY FINDINGS OF SIGNIFICANCE

Does the project:	Substantial Change in Project Requiring Major MND Revisions	Substantial Change in Circumstances Requiring Major MND Revisions	New Information Showing Greater Significant Effects than Previous MND	New Information Showing Ability to Reduce but not Eliminate Significant Effects in Previous MND	No Changes or New Information Requiring Preparation of an EIR	No Impact
a) Have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?					X	
b) Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of the past projects, the effects of other current projects, and the effects of probable future projects.)					X	
c) Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?					X	

Summary

As supported by the discussions presented herein, the Addendum Project would not result in or cause new significant impacts, substantively increased impacts, or substantively different environmental impacts than those previously addressed in the Certified EIR prepared for the Westridge Commerce Center project. There are no changes or new information requiring preparation of an EIR based on the Addendum Project's potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory; result in impacts that are individually limited, but cumulatively considerable; or have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly. No amendments or additions to the Certified EIR analysis are necessary.

September 13, 2013

Mr. Ross Geller
 Applied Planning, Inc.
 5817 Pine Avenue, Suite A
 Chino Hills, CA 91709

Subject: Westridge Commerce Center – Traffic Impact Assessment Update

Dear Mr. Geller:

Urban Crossroads, Inc. is pleased to submit this updated traffic impact assessment for the Westridge Commerce Center (referred to as “Project”), which is located west of Redlands Boulevard and South of State Route 60 in the City of Moreno Valley. The purpose of this traffic assessment is to determine if proposed changes to the Project’s building design to support an identified future tenant operations would result in substantial changes to the findings previously reported for the proposed Project in the *Westridge Commerce Center Traffic Impact Analysis* (Urban Crossroads, Inc., Rev. May 20, 2010, referred to as the “2010 Traffic Study”). Specifically, the Project is anticipated to serve as a distribution center for Aldi, a worldwide grocery retailer that is anticipated to support approximately 150 future stores in the southern California region. In addition to the reduction in overall building square footage, Aldi operations will require a portion of the warehouse area for cold storage, and will require an increase in the amount of office use from the entitled 14,000 square feet to 50,000 square feet. The Project is anticipated to have an opening year of 2014. The current site plan is shown on Exhibit 1.

Consistent with the 2010 Traffic Study analysis methodology and reflecting the current site plan and currently anticipated opening year (2014), the following ten (10) intersections will be evaluated for Existing plus Ambient Growth plus Project (EAP) 2014 traffic conditions, and Existing plus Ambient Growth plus Project plus Cumulative (EAPC) 2014 traffic conditions:

ID	Intersection Location
1	Moreno Beach Drive & SR-60 Freeway Westbound Ramps
2	Moreno Beach Drive & SR-60 Freeway Eastbound Ramps
3	Quincy Street & Eucalyptus Avenue (EAPC Conditions Only)
4	Driveway 1 & Eucalyptus Avenue / Fir Avenue
5	Street “A” & Eucalyptus Avenue / Fir Avenue
6	Redlands Boulevard & Spruce Avenue / SR-60 Freeway Westbound Ramps
7	Redlands Boulevard & SR-60 Freeway Eastbound Ramps
8	Redlands Boulevard & Eucalyptus Avenue / Fir Avenue
9	Redlands Boulevard & Eucalyptus Avenue / Encilia Avenue
10	Redlands Boulevard & Cottonwood Avenue

SUMMARY OF FINDINGS

The Project is anticipated to generate a net total of 2,200 passenger car equivalent (PCE) average daily trips (ADT), 142 PCE AM peak hour trips, and 84 PCE PM peak hour trips. When compared to the trip generation estimates previously presented in the 2010 Traffic Study, there is a net decrease of 730 PCE ADT, 49 PCE AM peak hour trips and 142 PCE PM peak hour trips.

Analysis of Opening Year traffic conditions for EAP (2014) and EAPC (2014) at each of the study area intersections resulted in findings consistent with those previously reported in the 2010 Traffic Study for EAP (2013) and EAPC (2013) scenarios. In other words, as a result of proposed changes to the Project, there were no additional intersections found to operate at an unacceptable level of service (LOS) beyond those previously identified in the 2010 Traffic Study; nor would the proposed changes to the Project result in substantively worse LOS conditions at any of the study area intersections.

PROJECT TRIP GENERATION

Unlike many industrial projects where future project-related trips are estimated based on empirical data collected and compiled by the Institute of Transportation Engineers (ITE), the trip generation rates used for this traffic assessment have been derived from specific employment and operational characteristics as identified by the future tenant (Aldi).

The Project is anticipated to operate two primary shifts from 6 AM to 4 PM and 3 PM to 11 PM with partial maintenance and operations staff on site twenty-four hours a day. Based on information provided to Urban Crossroads by the applicant, it is anticipated that the Project will employ approximately 50 office employees and 200 warehouse employees resulting in 400 daily automobile trips and 600 daily truck trips.

Passenger car trips have been based from the anticipated peak hour trips produced by corporate office employees only. Based on typical operations of other warehouse sites for Aldi, warehouse and maintenance employees typically arrive and depart outside of the typical morning (7am-9am) and evening (4pm-6pm) peak periods. There are anticipated to be 35 corporate office employees arriving during the morning peak hour, and leaving during the evening peak hour. A reduction for carpooling was not applied to the corporate office employee trips in an effort to conservatively estimate that each corporate office employee will generate 1 inbound trip for the morning peak hour and 1 outbound trip for the evening peak hour. It has been conservatively estimated that potentially up to 5% of employees may be dropped off by family members or by vanpool which results in an estimated 2 outbound passenger car trips in the morning peak hour and 2 inbound passenger car trips in the evening peak hour. An additional passenger car trip during the evening peak hour has been included in anticipation of a delivery (package) pick-up or drop-off.

Opening Year truck trips have been conservatively based on future operational characteristics in which the Project would support up to 150 stores throughout the region. This was done to ensure that potential impacts were assessed for full buildout of the project site. Based on empirical data provided by Aldi, this level of activity is anticipated to generate a total of 175 inbound trucks (100 receiving goods and 75 delivery) between the hours of 4 AM to 6 AM, and 75 outbound delivery trucks between the hours of 7 PM to 9 PM. As noted above, the scheduling of truck traffic is anticipated to occur outside of the "typical" morning and evening peak periods, however, in an effort to overstate as opposed to understate potential impacts, up to 20% of the trucks identified to occur prior to the morning peak hours, or after the evening peak hours were conservatively assumed to overlap with the other project-related trips occurring in the

peak hours. This would result in 35 inbound truck trips in the morning peak hour and 15 outbound truck trips in the evening peak hour. These estimates were made to allow for discrepancies in scheduling with actual arrival and departure times. Finally, it has been conservatively assumed that all truck trips are 4+ Axle trucks, and accordingly are evaluated at a PCE factor of 3.0.

Operations data from which project-related trip generation data has been based is included in Attachment "A".

As shown on Table 1, the Project is estimated to generate a total of 2,200 PCE average daily trips (ADT), 142 PCE AM peak hour trips, and 84 PCE PM peak hour trips. As compared to the 2010 Traffic Study, the current Project results in a net decrease of 730 PCE ADT, 49 PCE AM peak hour trips and 142 PCE PM peak hour trips. A comparison of the proposed Project's trip generation and the 2010 Traffic Study's trip generation is also presented in Table 1.

OPENING YEAR (2014) CONDITIONS

Peak hour traffic operations have been evaluated for each of the study area intersections for EAP (2014) conditions in an effort to evaluate any potential impacts caused by the additional year of ambient growth and/or the change in Project traffic. ADT, AM and PM peak hour intersection turning movement volumes for EAP (2014) traffic conditions are shown on Exhibit 2. It should be noted that the volumes shown on the exhibit are represented in PCE.

INTERSECTION OPERATIONS ANALYSIS

EAP (2014) intersection levels of service for both without and with improvements are shown on Table 2. Consistent with the results previously reported in the 2010 Traffic Study, the following two (2) study area intersections are projected to operate at unacceptable levels of service during the peak hours:

ID	Intersection Location
6	Redlands Boulevard & Spruce Avenue / SR-60 Freeway Westbound Ramps
7	Redlands Boulevard & SR-60 Eastbound Ramps

As a result of the net reduction in Project trips, the intersection of Redlands Boulevard at Fir Avenue is no longer anticipated to operate at an unacceptable LOS without improvements. EAP (2014) conditions intersection analysis worksheets have been included in Attachment "B" of this letter.

Improvements needed to address LOS deficiencies for EAP (2014) conditions are consistent with those previously recommended in the 2010 Traffic Study. Intersection analysis worksheets for EAP (2014) conditions, with improvements, have been included in Attachment "C" of this letter.

TRAFFIC SIGNAL WARRANT ANALYSIS

For EAP (2014) conditions, a traffic signal appears to be warranted at the following study area intersection:

ID	Intersection Location
8	Redlands Boulevard & Eucalyptus Avenue / Fir Avenue

This is consistent with the traffic signal warrant analysis results for EAP (2013) conditions presented in the 2010 Traffic Study. Traffic signal warrant analysis worksheets for EAP (2014) conditions can be found in Attachment “D” of this letter.

OPENING YEAR (2014) WITH CUMULATIVE DEVELOPMENTS

EAPC (2014) peak hour traffic operations have been evaluated for the intersections analyzed previously under EAPC (2013) conditions in the 2010 Traffic Study. The EAPC 2014 analysis specifically accounts for the additional year of ambient traffic growth that would occur between the 2013 and 2014 EAPC scenarios. ADT, AM and PM peak hour intersection turning movement volumes for EAPC (2014) traffic conditions are shown on Exhibit 3. It should be noted that the volumes shown on the exhibits are represented in PCE.

INTERSECTION OPERATIONS ANALYSIS

EAPC (2014) intersection levels of service for both without and with improvements scenarios are shown on Table 3. For EAPC (2014) conditions, the following four (4) study area intersections are projected to operate at unacceptable levels of service during the peak hours:

ID	Intersection Location
2	Moreno Beach Drive & SR-60 Freeway Eastbound Ramps
6	Redlands Boulevard & Spruce Avenue / SR-60 Freeway Westbound Ramps
7	Redlands Boulevard & SR-60 Freeway Eastbound Ramps
8	Redlands Boulevard & Eucalyptus Avenue / Fir Avenue

The resulting EAPC (2014) intersection operations analysis results are consistent with those presented in the 2010 Traffic Study for EAPC (2013) conditions. EAPC (2014) conditions intersection analysis worksheets have been included in Attachment “E” of this letter.

The implementation of improvements at deficient intersections for EAPC (2014) conditions consistent with those recommended for EAPC (2013) conditions by the 2010 Traffic Study results in acceptable LOS at affected study area intersections.¹ Intersection analysis worksheets for EAPC (2014) conditions, with improvements, have been included in Attachment “F” of this letter.

TRAFFIC SIGNAL WARRANT ANALYSIS

For EAPC (2014) conditions, a traffic signal appears to be warranted at the following study area intersection in addition to the location previously warranted under EAP (2014) conditions:

ID	Intersection Location
6	Street “A” & Eucalyptus Avenue / Fir Avenue

¹ Additionally, and consistent with the Opening Year Traffic Impact Mitigation Measures identified in the EIR the Project as revised herein will pay required Development Impact Fees (DIF), facilitating construction of new intersection improvements at Quincy Street at Fir (future Eucalyptus) Avenue. The new intersection of Quincy Street at Fir (future Eucalyptus) Avenue is a General Plan Circulation Element improvement that would be required irrespective of the Project. The Project will, however, contribute traffic to this new intersection and will be responsible for fee payments applied to its improvements. Please refer to MM 4.2.8, DEIR page 4.2-42.

Mr. Ross S. Geller
Applied Planning, Inc.
September 13, 2013
Page 5

Consistent with the recommendations in the 2010 Traffic Study, the intersection of Street "A" at Eucalyptus Avenue/Fir Avenue is anticipated to operate at acceptable levels of service under EAPC (2014) traffic conditions during the peak hours and does not present safety issues as a cross-street stop controlled intersection. As such, the installation of a traffic signal is not necessary for EAPC (2014) traffic conditions. However, the 2010 Traffic Study and the EIR both indicate that the installation of a traffic signal was needed under General Plan Buildout traffic conditions in order to maintain acceptable peak hour operations at the intersection of Street "A" at Eucalyptus Avenue/Fir Avenue. Traffic signal warrant analysis worksheets for EAPC (2014) conditions can be found in Attachment "G" of this letter.

If you have any questions regarding this analysis, please give me a call at (949) 660-1994 ext. 204.

Respectfully submitted,

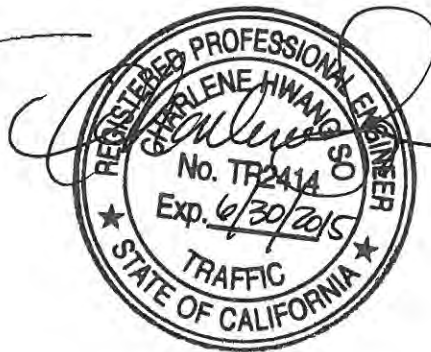
URBAN CROSSROADS, INC.



Aric Evatt, PTP
Principal

AE:CH:DL

JN:08721-05 Letter
Attachments



Charlene So, PE
Senior Transportation Engineer

08721-05 Letter

EXISTING PLUS AMBIENT GROWTH PLUS PROJECT (2014) AVERAGE DAILY TRAFFIC (ADT) AND PEAK HOUR INTERSECTION VOLUMES



LEGEND:

10.0 = VEHICLES PER DAY (1000'S)

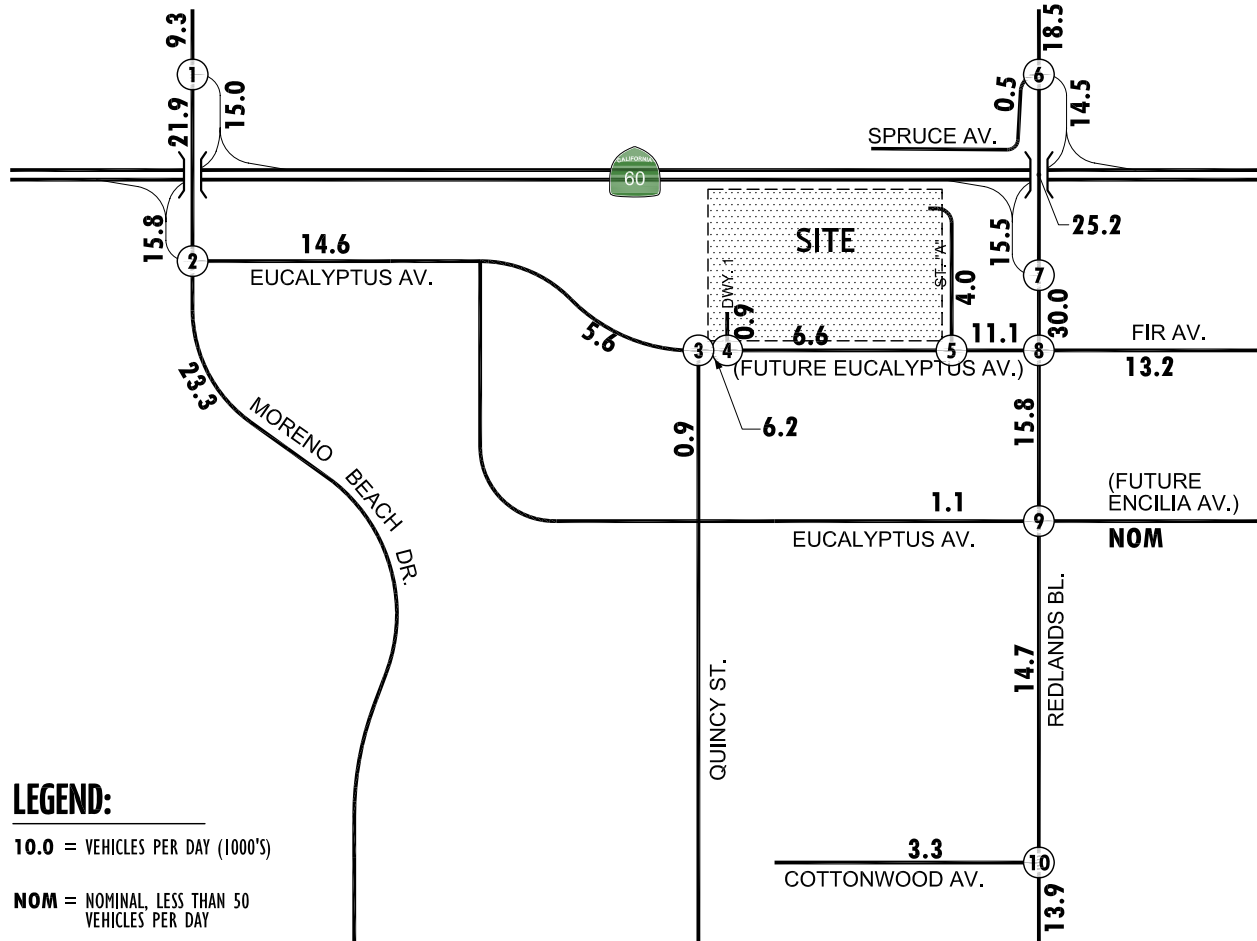
NOM = NOMINAL, LESS THAN 50 VEHICLES PER DAY

10(20) = AM(PM) PEAK HOUR INTERSECTION VOLUMES

<p>1 Moreno Beach Dr. & SR-60 WB Ramps</p> <p>310(186) 175(72)</p> <p>11(9) 102(136)</p> <p>365(300) 462(388)</p>	<p>2 Moreno Beach Dr. & SR-60 EB Ramps</p> <p>23(9) 340(303) 48(10)</p> <p>19(86) 9(21) 13(46)</p> <p>98(100) 71(40) 281(525)</p> <p>101(80) 710(511) 29(24)</p>	<p>3 Quincy St. & Eucalyptus Av.</p> <p>FUTURE INTERSECTION</p>	<p>4 Driveway 1 & Eucalyptus Av.</p> <p>0(23)</p> <p>53(0)</p>		
<p>5 Street "A" & Eucalyptus Av.</p> <p>0(0) 2(58)</p> <p>87(3) 53(0)</p> <p>0(0) 0(23)</p>	<p>6 Redlands Bl. & Spruce Av./SR-60 WB Ramps</p> <p>1(27) 210(409) 318(284)</p> <p>51(29) 0(0) 36(22)</p> <p>0(1) 2(4) 2(1)</p> <p>2(6) 638(590) 155(142)</p>	<p>7 Redlands Bl. & SR-60 EB Ramps</p> <p>27(55) 233(377)</p> <p>286(391) 169(128)</p> <p>40(32) 510(347)</p>	<p>9 Redlands Bl. & Fir Av.</p> <p>136(3) 260(504) 0(0)</p> <p>0(0) 0(0) 0(0)</p> <p>2(77) 0(0) 0(4)</p> <p>8(0) 548(303) 0(1)</p>	<p>9 Redlands Bl. & Eucalyptus Av.</p> <p>4(30) 261(478)</p> <p>30(13) 11(2)</p> <p>4(1) 526(291)</p>	<p>10 Redlands Bl. & Cottonwood Av.</p> <p>27(39) 246(442) 0(0)</p> <p>0(0) 0(0) 0(0)</p> <p>47(20) 0(0) 35(32)</p> <p>37(11) 483(271) 0(0)</p>



EXISTING PLUS AMBIENT GROWTH PLUS PROJECT PLUS CUMULATIVE DEVELOPMENT (2014) AVERAGE DAILY TRAFFIC (ADT) AND PEAK HOUR INTERSECTION VOLUMES



LEGEND:

10.0 = VEHICLES PER DAY (1000'S)

NOM = NOMINAL, LESS THAN 50 VEHICLES PER DAY

10(20) = AM(PM) PEAK HOUR INTERSECTION VOLUMES

1	2	3	4	5
Moreno Beach Dr. & SR-60 WB Ramps	Moreno Beach Dr. & SR-60 EB Ramps	Quincy St. & Eucalyptus Av.	Driveway 1 & Eucalyptus Av.	Street "A" & Eucalyptus Av.
↓ 380(281) ↓ 175(72) ← 14(26) ← 187(248) ↑ 414(398) ↑ 747(896)	↓ 28(25) ↓ 379(392) ↓ 158(111) ← 238(546) ← 39(113) ← 33(87) ↑ 98(100) ↑ 381(294) ↑ 328(650)	↓ 172(187) ↓ 10(35) ↑ 169(247) ↑ 5(8) ↑ 6(4) ↑ 21(27)	↓ 0(7) ↓ 0(16) ← 37(0) ← 182(215) ↑ 16(0) ↑ 174(274)	↓ 1(15) ↓ 24(160) ← 112(103) ← 218(200) ↑ 14(6) ↑ 160(284)
6	7	8	9	10
Redlands Bl. & Spruce Av./SR-60 WB Ramps	Redlands Bl. & SR-60 EB Ramps	Redlands Bl. & Eucalyptus Av./Fir Av.	Redlands Bl. & Eucalyptus Av./Encilia Av.	Redlands Bl. & Cottonwood Av.
↓ 1(27) ↓ 29(1504) ↓ 318(284) ← 51(29) ← 0(0) ← 183(193) ↑ 0(1) ↑ 2(4) ↑ 2(1) ↑ 2(6) ↑ 696(700) ↑ 430(660)	↓ 27(55) ↓ 450(644) ↑ 286(391) ↑ 480(548) ↑ 184(247) ↑ 842(975)	↓ 279(236) ↓ 302(625) ↓ 349(332) ← 236(479) ← 27(56) ← 37(102) ↑ 136(369) ↑ 37(50) ↑ 18(78) ↑ 47(57) ↑ 654(374) ↑ 74(78)	↓ 1(57) ↓ 345(747) ↓ 0(1) ← 1(0) ← 0(0) ← 0(0) ↑ 46(33) ↑ 0(0) ↑ 11(2) ↑ 4(1) ↑ 726(475) ↑ 0(0)	↓ 44(105) ↓ 313(644) ↓ 0(0) ↓ 0(0) ↑ 91(67) ↑ 0(0) ↑ 47(72) ↑ 72(34) ↑ 639(408) ↑ 0(0)



Table 1

Trip Generation Summary for the proposed Aldi Southern California Distribution Center

Project	TSF	EMP	AM Peak Hour			PM Peak Hour			Daily ¹
			In	Out	Total	In	Out	Total	
Aldi Dist. Warehouse (MV, CA)	800.430	250							
		Passenger Cars ² :	35	2	37	3	36	39	400
		Trucks (PCE) ³ :	105	0	105	0	45	45	1,800
		TOTAL (PCE, based on Aldi Project Info):	140	2	142	3	81	84	2,200
		TOTAL (PCE, 2010 Westridge Commerce Center):	104	87	191	87	139	226	2,930
		Variance:	36	-85	-49	-84	-58	-142	-730

¹ Daily Passenger and Truck trips are based on the Project Orion Design Criteria RFP - Exhibit A (January 14, 2013) which anticipates 400 daily passenger car and 600 daily truck trips. A Passenger Car Equivalent (PCE) factor of 3.0 was utilized to translate every 1 truck trip to 3 passenger car equivalent trips (assumes all trucks are 4+ Axle).

² Passenger car trips are based from the anticipated peak hour trips produced by corporate office employees only as shown on the Employee Shift & Truck Delivery Breakdown Worksheet provided by the Project. Warehouse and maintenance employees were not included as they are anticipated to arrive and depart outside of the AM and PM peak periods. Based on information provided there are anticipated to be 35 corporate office employees arriving before 8 AM and leaving before 5 PM. A carpool reduction has not been applied to the corporate office employee trips in an effort to conservatively estimate that each corporate office employee will generate 1 trip for each peak hour. It has been conservatively estimated that 5% of employees may be dropped off by family members or by vanpool which results in an estimated 2 outbound passenger car trips in the AM peak hour and 2 inbound passenger car trips in the PM peak hour. An additional passenger car trip during the PM peak hour is included in anticipation of an office or warehouse operation related trip such as a FedEx or UPS delivery/pick-up.

³ Truck trips are based from the anticipated future warehouse peak hour trips shown on the Employee Shift & Truck Delivery Breakdown Worksheet which show 175 inbound (100 receiving goods and 75 delivery) trucks between the hours of 4 AM to 6 AM and 75 Aldi outbound delivery trucks between the hours of 7 PM to 9 PM. As the scheduling of truck traffic occurs outside of the "typical" AM and PM peak periods of 7 AM to 9 AM and 4 PM to 6 PM, 20% of truck trips were assigned to the AM and PM peak hours in the event that a portion of the trucks are leaving after the scheduled AM and before the scheduled PM truck activity periods. 20% of truck trips occurring outside of their scheduled activity periods results in an estimated 35 inbound AM peak hour truck trips and 15 outbound PM peak hour truck trips associated with the proposed Project. These estimates were made to allow for discrepancies in scheduling with actual arrival and departure times. As an anticipated truck mix has not been provided, it has been conservatively assumed that every truck associated with the Project site is a 4+ Axle truck and a PCE factor of 3.0 has been applied to these truck trips.

Table 2

Intersection Analysis for Existing Plus Ambient Growth Plus Project (2014) Conditions

Intersection	Traffic Control ³	Intersection Approach Lanes ¹												Delay ² (secs.)		Level of Service	
		Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Moreno Beach Drive (NS) at:																	
• SR-60 Westbound Ramps (EW) - Without Improvements	TS	0	1	1>	1	1	0	0	0	0	1	0	1>	15.8	19.7	B	B
• SR-60 Eastbound Ramps (EW) - Without Improvements	TS	1	2	1	1	3	0	0	1	0	1	1	1	41.6	46.1	D	D
Driveway 1 (NS) at:																	
• Eucalyptus Avenue (EW) - Without Improvements		INTERSECTION DOES NOT EXIST															
- With Improvements	CSS	0	0	0	1	0	0	0	0	0	0	0	1	8.5	8.6	A	A
Street A (NS) at:																	
• Eucalyptus Avenue (EW) - Without Improvements		INTERSECTION DOES NOT EXIST															
- With Improvements	CSS	0	0	0	1	0	1	1	1	0	0	1	0	9.0	8.8	A	A
Redlands Boulevard (NS) at:																	
• SR-60 Westbound Ramps (EW) - Without Improvements	CSS	1	1	0	1	1	0	0	1	0	0	1	0	-- ⁴	94.3	F	F
- With Improvements	TS	1	1	0	1	1	0	0	1	0	0	1	0	35.2	24.2	D	C
• SR-60 Eastbound Ramps (EW) - Without Improvements	AWS	0	1	0	0	1	0	0	1	0	0	0	0	56.6	43.2	F	E
- With Improvements	TS	1	1	0	0	1	0	0	1	0	0	0	0	29.1	28.8	C	C
• Fir Avenue (EW) - Without Improvements	CSS	0	1	0	0	1	0	0	1	0	0	1	0	20.2	22.9	C	C
Redlands Boulevard (NS) at:																	
• Eucalyptus Avenue (EW) - Without Improvements	CSS	0	1	0	0	1	0	1	0	1	0	0	0	16.9	16.1	C	C
• Cottonwood Avenue (EW) - Without Improvements	TS	1	1	0	0	1	1	1	0	1	0	0	0	7.0	5.6	A	A

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; 1 = Improvement

² Delay and level of service calculated using the following analysis software:
HCS+ Version 5.21 (2005) for unsignalized intersections and SYNCHRO Version 8 (2012) for signalized intersections.
Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

³ CSS = Cross-Street Stop; AWS = All Way Stop; TS = Traffic Signal

⁴ -- = Delay High (greater than 100.0 seconds); Level of Service "F".

Table 3 (Page 1 of 2)

Intersection Analysis for
Existing Plus Ambient Growth Plus Project Plus Cumulative (2014) Conditions

Intersection	Traffic Control ³	Intersection Approach Lanes ¹												Delay ² (secs.)		Level of Service	
		Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
Moreno Beach Drive (NS) at:																	
• SR-60 Westbound Ramps (EW)																	
- Without Improvements	TS	0	1	1>	1	1	0	0	0	0	1	0	1>	17.2	19.8	B	B
- With Improvements ⁵	TS	0	1	1>	1	1	0	0	0	0	1	0	1>	17.5	17.0	B	B
• SR-60 Eastbound Ramps (EW)																	
- Without Improvements	TS	1	2	1	1	3	0	0	1	0	1	1	1	-- ⁴	-- ⁴	F	F
- With Improvements	TS	1	2	1	1	3	0	0	1	<u>1</u>	1	1	1	45.7	50.5	D	D
Quincy Street (NS) at:																	
• Eucalyptus Avenue (EW)																	
- Without Improvements		INTERSECTION DOES NOT EXIST															
- With Improvements	<u>CSS</u>	0	<u>1</u>	0	0	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	0	9.6	10.1	A	B
Driveway 1 (NS) at:																	
• Eucalyptus Avenue (EW)																	
- Without Improvements		INTERSECTION DOES NOT EXIST															
- With Improvements	<u>CSS</u>	0	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	0	0	<u>1</u>	<u>1</u>	7.7	11.2	A	B
Street A (NS) at:																	
• Eucalyptus Avenue (EW)																	
- Without Improvements		INTERSECTION DOES NOT EXIST															
- With Improvements	<u>CSS</u>	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	<u>1</u>	0	0	<u>1</u>	0	11.8	15.6	B	C
Redlands Boulevard (NS) at:																	
• SR-60 Westbound Ramps (EW)																	
- Without Improvements	CSS	1	1	0	1	1	0	0	1	0	0	1	0	-- ⁴	-- ⁴	F	F
- With Improvements	<u>TS</u>	1	<u>2</u>	<u>1></u>	1	<u>2</u>	0	0	1	0	0	1	0	19.4	21.3	B	C
• SR-60 Eastbound Ramps (EW)																	
- Without Improvements	AWS	0	1	0	0	1	0	0	1	0	0	0	0	-- ⁴	-- ⁴	F	F
- With Improvements	<u>TS</u>	<u>1</u>	<u>2</u>	0	0	<u>2</u>	0	<u>1</u>	<u>0</u>	<u>1</u>	0	0	0	23.6	26.8	C	C
• Eucalyptus Avenue (EW)																	
- Without Improvements	CSS	0	1	0	0	1	0	0	1	0	0	1	0	-- ⁴	-- ⁴	F	F
- With Improvements	<u>TS</u>	<u>1</u>	<u>2</u>	0	<u>2</u>	<u>2</u>	<u>1></u>	<u>2</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	<u>1></u>	24.5	29.8	C	C

Table 3 (Page 2 of 2)

**Intersection Analysis for
Existing Plus Ambient Growth Plus Project Plus Cumulative (2014) Conditions**

Intersection	Traffic Control ³	Intersection Approach Lanes ¹												Delay ² (secs.)		Level of Service	
		Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM
		L	T	R	L	T	R	L	T	R	L	T	R				
• Encilia Avenue (EW) - Without Improvements	CSS	0	1	0	0	1	0	1	0	1	0	0	0	22.7	29.9	C	D
• Cottonwood Avenue (EW) - Without Improvements	TS	1	1	0	0	1	1	1	0	1	0	0	0	8.5	8.6	A	A

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; 1 = Improvement

² Delay and level of service calculated using the following analysis software:
HCS+ Version 5.21 (2005) for unsignalized intersections and SYNCHRO Version 8 (2012) for signalized intersections.
Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

³ CSS = Cross-Street Stop; AWS = All Way Stop; TS = Traffic Signal

⁴ -- = Delay High (greater than 100.0 seconds); Level of Service "F".

⁵ No physical geometric improvements have been recommended, but coordination (timing) between ramps on Moreno Beach Drive has been altered.

ATTACHMENT "A"

Project Employee Shift & Truck Delivery Breakdown Worksheet and Project Trip Information

EMPLOYEE SHIFT & TRUCK DELIVERY BREAKDOWN WORKSHEET

Employees	Corporate Office Hours			
	8 AM to 5 PM	9 AM to 7 PM		
	<i>Arriving before 8 AM Leaving before 5 PM</i>	<i>Arriving after 9 AM Leaving after 6 PM</i>		
Corporate Offices	35 employees	15 employees		50 employees
				50 employees

Employees	Warehouse Operating Shifts			
	6 AM to 4 PM	3 PM to 11 PM	10 PM to 7 AM	
	<i>Arriving before 6 AM Leaving before 4 PM</i>	<i>Arriving before 3 PM Leaving before 11 PM</i>	<i>Arriving before 10 PM Leaving before 7 AM</i>	
Warehousing	140 employees			140 employees
Maint. & Operations		5 employees	5 employees	10 employees
Total Employees				150 employees

Employees	<u>FUTURE</u> Warehouse Operating Shifts			
	6 AM to 4 PM	3 PM to 11 PM	10 PM to 7 AM	
	<i>Arriving before 6 AM Leaving before 4 PM</i>	<i>Arriving before 3 PM Leaving before 11 PM</i>		
Warehousing	140 employees	50 employees		190 employees
Maint. & Operations		5 employees	5 employees	10 employees
Total Employees				200 employees

Delivery Trucks	Warehouse Truck Delivery			
	4 AM to 6 AM	7 PM to 9 PM	1 AM to 4 AM	
	<i>Deliveries End</i>	<i>Deliveries Begin</i>	<i>Deliveries</i>	
ALDI Delivery				
Outbound Delivery		40 trucks	40 trucks	80 trucks
Inbound Delivery	40 trucks		40 trucks	80 trucks
Receiving Goods	4 AM to 6 AM	10 AM to 12 PM		
	<i>Deliveries Begin</i>	<i>Empties Depart</i>		
	150 trucks	150 trucks		
Total Trucks				460 trucks

Delivery Trucks	<u>FUTURE</u> Warehouse Truck Delivery			
	4 AM to 6 AM	7 PM to 9 PM	1 AM to 4 AM	
	<i>Deliveries End</i>	<i>Deliveries Begin</i>	<i>Deliveries</i>	
ALDI Delivery				
Outbound Delivery		75 trucks	75 trucks	150 trucks
Inbound Delivery	75 trucks		75 trucks	150 trucks
Receiving Goods	4 AM to 6 AM	10 AM to 12 PM		
	<i>Deliveries Begin</i>	<i>Empties Depart</i>		
	100 trucks	100 trucks	100 trucks	
Total Trucks				600 trucks

General Site and Building Information

Distribution Center Description

Client is a worldwide grocery retailer. The Distribution Center will receive product from primarily third party manufacturing or wholesale locations and distribute to local stores in the southern California region. No food processing or packaging operations will take place in this facility.

Initially the Distribution Center will support approximately 80 stores. Future facility expansion is planned to support approximately 150 stores.

The Distribution will operate on 1 shift operating from approximately 6 am to 4 pm, 7 days a week. Partial maintenance and operations staff will be on site 24 hours/7 days a week. A future 2nd shift operating from 3 pm to 11pm may be added to the facility in the future.

Number of employees for the initial facility and future expansion is as follows:

	80 Stores	150 Stores (Future)
Office	50	50
Warehouse	150	200

Receiving of goods will be primarily by truck. All goods will be shipped by truck. The following are average Truck and Automobile trips per day anticipated for the facility.

	80 Stores	150 Stores (Future)
Trucks	460	600
Automobile	300	400
Total (in & out) trips / day	760	1000

The distribution process will incorporate both static racking and floor stacking of goods. No conveyor systems are planned to move goods and packing materials throughout the building.

The Distribution Center will warehouse dry and perishable food type commodities with the top of product in racks reaching 30'. For the most part product in the Warehouse is classified as Class IV commodities and product in the Perishables area is classified as Class II & III commodities.

ATTACHMENT "B"

Existing plus Ambient Growth plus Project (2014) Conditions
Intersection Operations Analysis Worksheets

HCM Signalized Intersection Capacity Analysis
 1: Moreno Beach Dr. & SR-60 Westbound Ramps



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	102	11	365	462	175	310
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	0.85	1.00	1.00
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (prot)	1805	1615	1900	1615	1805	1900
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (perm)	1805	1615	1900	1615	1805	1900
Peak-hour factor, PHF	0.77	0.77	0.77	0.77	0.77	0.77
Adj. Flow (vph)	132	14	474	600	227	403
RTOR Reduction (vph)	0	10	0	84	0	0
Lane Group Flow (vph)	132	4	474	516	227	403
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	pm+ov	NA	pm+ov	Prot	NA
Protected Phases	8	1	2	8	1	6
Permitted Phases		8		2		
Actuated Green, G (s)	14.5	34.8	71.2	85.7	20.3	95.5
Effective Green, g (s)	14.5	34.8	71.2	85.7	20.3	95.5
Actuated g/C Ratio	0.12	0.29	0.59	0.71	0.17	0.80
Clearance Time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	218	468	1127	1220	305	1512
v/s Ratio Prot	c0.07	0.00	0.25	c0.05	c0.13	0.21
v/s Ratio Perm		0.00		0.27		
v/c Ratio	0.61	0.01	0.42	0.42	0.74	0.27
Uniform Delay, d1	50.0	30.3	13.2	7.0	47.4	3.2
Progression Factor	1.00	1.00	0.36	1.06	1.00	1.00
Incremental Delay, d2	4.7	0.0	1.0	0.2	9.5	0.4
Delay (s)	54.7	30.3	5.7	7.6	56.8	3.6
Level of Service	D	C	A	A	E	A
Approach Delay (s)	52.4		6.8			22.8
Approach LOS	D		A			C

Intersection Summary

HCM 2000 Control Delay	15.8	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.52		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	46.4%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
 2: Moreno Beach Dr. & SR-60 Eastbound Ramps/Eucalyptus Ave.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔		↖	↗	↗	↖	↕	↖	↖	↕↔	
Volume (vph)	98	71	281	13	9	19	101	710	29	48	340	23
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0		5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Lane Util. Factor		1.00		1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.91	
Frbp, ped/bikes		0.99		1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	
Flpb, ped/bikes		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Frt		0.92		1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.99	
Flt Protected		0.99		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1701		1805	1900	1566	1805	3610	1583	1805	5137	
Flt Permitted		0.99		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1701		1805	1900	1566	1805	3610	1583	1805	5137	
Peak-hour factor, PHF	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Adj. Flow (vph)	118	86	339	16	11	23	122	855	35	58	410	28
RTOR Reduction (vph)	0	49	0	0	0	21	0	0	20	0	5	0
Lane Group Flow (vph)	0	494	0	16	11	2	122	855	15	58	433	0
Confl. Peds. (#/hr)			5			5			5			
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases						8			2			
Actuated Green, G (s)		35.7		8.5	8.5	8.5	14.4	51.2	51.2	5.6	42.4	
Effective Green, g (s)		35.7		8.5	8.5	8.5	14.4	51.2	51.2	5.6	42.4	
Actuated g/C Ratio		0.30		0.07	0.07	0.07	0.12	0.43	0.43	0.05	0.35	
Clearance Time (s)		5.0		5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Vehicle Extension (s)		3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		506		127	134	110	216	1540	675	84	1815	
v/s Ratio Prot		c0.29		c0.01	0.01		c0.07	c0.24		0.03	0.08	
v/s Ratio Perm						0.00			0.01			
v/c Ratio		0.98		0.13	0.08	0.01	0.56	0.56	0.02	0.69	0.24	
Uniform Delay, d1		41.7		52.3	52.1	51.9	49.8	25.8	19.9	56.3	27.4	
Progression Factor		1.00		1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.75	
Incremental Delay, d2		33.5		0.4	0.3	0.1	3.4	1.4	0.1	21.2	0.3	
Delay (s)		75.3		52.7	52.4	51.9	53.2	27.3	20.0	73.8	20.8	
Level of Service		E		D	D	D	D	C	B	E	C	
Approach Delay (s)		75.3			52.3			30.2			27.0	
Approach LOS		E			D			C			C	

Intersection Summary			
HCM 2000 Control Delay	41.6	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.68		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	19.0
Intersection Capacity Utilization	70.5%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Dwy. 1/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/10/2013			Analysis Year	EAP (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)				North/South Street: Driveway 1 (NS)				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street		Eastbound			Westbound			
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)						53		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	53		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	0	0	0	0	1		
Configuration						R		
Upstream Signal		0			0			
Minor Street		Northbound			Southbound			
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)				0				
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	1	0	0		
Configuration				L				
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration						L		
v (veh/h)						0		
C (m) (veh/h)						1029		
v/c						0.00		
95% queue length						0.00		
Control Delay (s/veh)						8.5		
LOS						A		
Approach Delay (s/veh)	--	--						
Approach LOS	--	--						

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Street A/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	9/13/2013			Analysis Year	EAP (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)				North/South Street: Street A (NS)				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	0	0			53	87		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	53	87		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	0	1	0		
Configuration	L	T				TR		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)				2		0		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	2	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	1	0	1		
Configuration				L		R		
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L					L		R
v (veh/h)	0					2		0
C (m) (veh/h)	1456					908		966
v/c	0.00					0.00		0.00
95% queue length	0.00					0.01		0.00
Control Delay (s/veh)	7.5					9.0		8.7
LOS	A					A		A
Approach Delay (s/veh)	--	--				9.0		
Approach LOS	--	--				A		

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Redlands/Spruce/SR-60 WB			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/9/2013			Analysis Year	EAP (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Spruce St./SR-60 WB (EW)				North/South Street: Redlands Blvd. (NS)				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	2	638	155	318	220	1		
Peak-Hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94		
Hourly Flow Rate, HFR (veh/h)	2	678	164	338	234	1		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	1	1	0		
Configuration	L		TR	L		TR		
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	0	2	2	36	0	51		
Peak-Hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94		
Hourly Flow Rate, HFR (veh/h)	0	2	2	38	0	54		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration		LTR			LTR			
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L	L	LTR			LTR		
v (veh/h)	2	338	92			4		
C (m) (veh/h)	1344	802	101			94		
v/c	0.00	0.42	0.91			0.04		
95% queue length	0.00	2.11	5.34			0.13		
Control Delay (s/veh)	7.7	12.7	143.1			45.0		
LOS	A	B	F			E		
Approach Delay (s/veh)	--	--	143.1			45.0		
Approach LOS	--	--	F			E		

ALL-WAY STOP CONTROL ANALYSIS								
General Information					Site Information			
Analyst	Donson Liu				Intersection	Redlands/SR-60 EB Ramps		
Agency/Co.	Urban Crossroads, Inc.				Jurisdiction	City of Moreno Valley		
Date Performed	7/9/2013				Analysis Year	EAP (2014) Conditions		
Analysis Time Period	AM PEAK HOUR							
Project ID WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: SR-60 EB Ramps (EW)					North/South Street: Redlands Blvd. (NS)			
Volume Adjustments and Site Characteristics								
Approach	Eastbound				Westbound			
Movement	L	T	R	L	T	R	L	T
Volume (veh/h)	286	0	169	0	0	0		
%Thrus Left Lane								
Approach	Northbound				Southbound			
Movement	L	T	R	L	T	R	L	T
Volume (veh/h)	40	510	0	0	233	27		
%Thrus Left Lane								
	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR				LT		TR	
PHF	0.90				0.90		0.90	
Flow Rate (veh/h)	504				610		288	
% Heavy Vehicles	0				0			
No. Lanes	1		0		1		1	
Geometry Group	1				1		1	
Duration, T	0.25							
Saturation Headway Adjustment Worksheet								
Prop. Left-Turns	0.6				0.1		0.0	
Prop. Right-Turns	0.4				0.0		0.1	
Prop. Heavy Vehicle	0.0				0.0		0.1	
hLT-adj	0.2	0.2			0.2	0.2	0.2	0.2
hRT-adj	-0.6	-0.6			-0.6	-0.6	-0.6	-0.6
hHV-adj	1.7	1.7			1.7	1.7	1.7	1.7
hadj, computed	-0.1				0.0		0.1	
Departure Headway and Service Time								
hd, initial value (s)	3.20				3.20		3.20	
x, initial	0.45				0.54		0.26	
hd, final value (s)	6.45				6.37		6.96	
x, final value	0.90				1.08		0.56	
Move-up time, m (s)	2.0				2.0		2.0	
Service Time, t _s (s)	4.4				4.4		5.0	
Capacity and Level of Service								
	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity (veh/h)	557				610		503	
Delay (s/veh)	43.15				85.87		18.37	
LOS	E				F		C	
Approach: Delay (s/veh)	43.15				85.87		18.37	
LOS	E				F		C	
Intersection Delay (s/veh)	56.64							
Intersection LOS	F							

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Redlands/Fir			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/9/2013			Analysis Year	EAP (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Fir Av./Eucalyptus Av. (EW)				North/South Street: Redlands Blvd. (NS)				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	8	548	0	0	266	136		
Peak-Hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94		
Hourly Flow Rate, HFR (veh/h)	8	582	0	0	282	144		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LTR			LTR				
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	2	0	0	0	0	0		
Peak-Hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94		
Hourly Flow Rate, HFR (veh/h)	2	0	0	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LTR			LTR				
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LTR	LTR	LTR			LTR		
v (veh/h)	8	0		0			2	
C (m) (veh/h)	1144	1002					239	
v/c	0.01	0.00					0.01	
95% queue length	0.02	0.00					0.03	
Control Delay (s/veh)	8.2	8.6					20.2	
LOS	A	A					C	
Approach Delay (s/veh)	--	--				20.2		
Approach LOS	--	--				C		

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Redlands/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/9/2013			Analysis Year	EAP (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Av/Encilia Av (EW)				North/South Street: Redlands Blvd. (NS)				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	4	526			261	4		
Peak-Hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94		
Hourly Flow Rate, HFR (veh/h)	4	559	0	0	277	4		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	30		11					
Peak-Hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94		
Hourly Flow Rate, HFR (veh/h)	31	0	11	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	1	0	1	0	0	0		
Configuration	L		R					
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT					L		R
v (veh/h)	4					31		11
C (m) (veh/h)	1293					334		765
v/c	0.00					0.09		0.01
95% queue length	0.01					0.30		0.04
Control Delay (s/veh)	7.8					16.9		9.8
LOS	A					C		A
Approach Delay (s/veh)	--	--				15.0		
Approach LOS	--	--				C		

HCM Signalized Intersection Capacity Analysis
 11: Redlands Blvd. & Cottonwood Ave.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (vph)	47	35	37	483	246	27
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0	4.0	5.0	5.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frbp, ped/bikes	1.00	1.00	1.00	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	1.00	1.00	0.85
Flt Protected	0.95	1.00	0.95	1.00	1.00	1.00
Satd. Flow (prot)	1805	1615	1805	1900	1900	1591
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00
Satd. Flow (perm)	1805	1615	1805	1900	1900	1591
Peak-hour factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	54	40	43	555	283	31
RTOR Reduction (vph)	0	35	0	0	0	16
Lane Group Flow (vph)	54	5	43	555	283	16
Confl. Peds. (#/hr)						5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	Perm	Prot	NA	NA	Perm
Protected Phases	4		5	2	6	
Permitted Phases		4				6
Actuated Green, G (s)	5.6	5.6	2.6	28.8	22.2	22.2
Effective Green, g (s)	5.6	5.6	2.6	28.8	22.2	22.2
Actuated g/C Ratio	0.13	0.13	0.06	0.65	0.50	0.50
Clearance Time (s)	5.0	5.0	4.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	227	203	105	1232	950	795
v/s Ratio Prot	c0.03		0.02	c0.29	0.15	
v/s Ratio Perm		0.00				0.01
v/c Ratio	0.24	0.02	0.41	0.45	0.30	0.02
Uniform Delay, d1	17.5	17.0	20.2	3.9	6.5	5.6
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.5	0.0	2.6	0.3	0.2	0.0
Delay (s)	18.0	17.1	22.7	4.1	6.7	5.6
Level of Service	B	B	C	A	A	A
Approach Delay (s)	17.6			5.5	6.6	
Approach LOS	B			A	A	

Intersection Summary			
HCM 2000 Control Delay	7.0	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.47		
Actuated Cycle Length (s)	44.4	Sum of lost time (s)	14.0
Intersection Capacity Utilization	39.6%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

HCM Signalized Intersection Capacity Analysis
 1: Moreno Beach Dr. & SR-60 Westbound Ramps



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	136	9	300	398	72	186
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	0.85	1.00	1.00
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (prot)	1805	1615	1900	1615	1805	1900
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (perm)	1805	1615	1900	1615	1805	1900
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	142	9	312	415	75	194
RTOR Reduction (vph)	0	7	0	95	0	0
Lane Group Flow (vph)	142	2	312	320	75	194
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	pm+ov	NA	pm+ov	Prot	NA
Protected Phases	8	1	2	8	1	6
Permitted Phases		8		2		
Actuated Green, G (s)	15.0	28.6	77.4	92.4	13.6	95.0
Effective Green, g (s)	15.0	28.6	77.4	92.4	13.6	95.0
Actuated g/C Ratio	0.12	0.24	0.65	0.77	0.11	0.79
Clearance Time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	225	438	1225	1310	204	1504
v/s Ratio Prot	c0.08	0.00	c0.16	0.03	c0.04	0.10
v/s Ratio Perm		0.00		0.17		
v/c Ratio	0.63	0.00	0.25	0.24	0.37	0.13
Uniform Delay, d1	49.9	34.8	9.0	3.9	49.2	2.9
Progression Factor	1.00	1.00	0.38	5.43	1.00	1.00
Incremental Delay, d2	5.7	0.0	0.5	0.1	1.1	0.2
Delay (s)	55.5	34.9	3.9	21.3	50.3	3.1
Level of Service	E	C	A	C	D	A
Approach Delay (s)	54.3		13.8			16.3
Approach LOS	D		B			B

Intersection Summary			
HCM 2000 Control Delay	19.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.32		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	40.8%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
 2: Moreno Beach Dr. & SR-60 Eastbound Ramps/Eucalyptus Ave.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔		↖	↗	↖	↖	↗	↖	↖	↗	↗
Volume (vph)	100	40	525	46	21	86	80	511	24	10	303	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0		5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Lane Util. Factor		1.00		1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.91	
Frbp, ped/bikes		0.99		1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	
Flpb, ped/bikes		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Frt		0.89		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	
Flt Protected		0.99		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1661		1805	1900	1566	1805	3610	1583	1805	5164	
Flt Permitted		0.99		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1661		1805	1900	1566	1805	3610	1583	1805	5164	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	106	43	559	49	22	91	85	544	26	11	322	10
RTOR Reduction (vph)	0	113	0	0	0	82	0	0	17	0	2	0
Lane Group Flow (vph)	0	595	0	49	22	9	85	544	9	11	330	0
Confl. Peds. (#/hr)			5			5			5			
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases						8			2			
Actuated Green, G (s)		43.9		12.2	12.2	12.2	9.0	43.5	43.5	1.4	35.9	
Effective Green, g (s)		43.9		12.2	12.2	12.2	9.0	43.5	43.5	1.4	35.9	
Actuated g/C Ratio		0.37		0.10	0.10	0.10	0.08	0.36	0.36	0.01	0.30	
Clearance Time (s)		5.0		5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Vehicle Extension (s)		3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		607		183	193	159	135	1308	573	21	1544	
v/s Ratio Prot		c0.36		c0.03	0.01		c0.05	c0.15		c0.01	0.06	
v/s Ratio Perm					0.01				0.01			
v/c Ratio		0.98		0.27	0.11	0.06	0.63	0.42	0.02	0.52	0.21	
Uniform Delay, d1		37.6		49.8	49.0	48.7	53.9	28.7	24.5	59.0	31.5	
Progression Factor		1.00		1.00	1.00	1.00	1.00	1.00	1.00	0.72	0.60	
Incremental Delay, d2		31.5		0.8	0.3	0.2	8.9	1.0	0.1	21.4	0.3	
Delay (s)		69.1		50.6	49.3	48.9	62.7	29.7	24.6	63.7	19.3	
Level of Service		E		D	D	D	E	C	C	E	B	
Approach Delay (s)		69.1			49.4			33.8			20.7	
Approach LOS		E			D			C			C	

Intersection Summary		
HCM 2000 Control Delay	46.1	HCM 2000 Level of Service
HCM 2000 Volume to Capacity ratio	0.66	D
Actuated Cycle Length (s)	120.0	Sum of lost time (s)
Intersection Capacity Utilization	82.9%	19.0
Analysis Period (min)	15	ICU Level of Service
c Critical Lane Group		E

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Dwy. 1/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/10/2013			Analysis Year	EAP (2014) Conditions			
Analysis Time Period	PM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)				North/South Street: Driveway 1 (NS)				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)						0		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	0	0	0	0	1		
Configuration						R		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)				23				
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	23	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	1	0	0		
Configuration				L				
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration						L		
v (veh/h)						23		
C (m) (veh/h)						1029		
v/c						0.02		
95% queue length						0.07		
Control Delay (s/veh)						8.6		
LOS						A		
Approach Delay (s/veh)	--	--				8.6		
Approach LOS	--	--				A		

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Street A/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	9/13/2013			Analysis Year	EAP (2014) Conditions			
Analysis Time Period	PM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)				North/South Street: Street A (NS)				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	0	23			0	3		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	23	0	0	0	3		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	0	1	0		
Configuration	L	T				TR		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)				58		0		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	58	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	1	0	1		
Configuration				L		R		
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L					L		R
v (veh/h)	0					58		0
C (m) (veh/h)	1632					996		1088
v/c	0.00					0.06		0.00
95% queue length	0.00					0.19		0.00
Control Delay (s/veh)	7.2					8.8		8.3
LOS	A					A		A
Approach Delay (s/veh)	--	--				8.8		
Approach LOS	--	--				A		

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Redlands/Spruce/SR-60 WB			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/9/2013			Analysis Year	EAP (2014) Conditions			
Analysis Time Period	PM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Spruce St./SR-60 WB (EW)				North/South Street: Redlands Blvd. (NS)				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	6	590	142	284	409	27		
Peak-Hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93		
Hourly Flow Rate, HFR (veh/h)	6	634	152	305	439	29		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	1	1	0		
Configuration	L		TR	L		TR		
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	1	4	1	22	0	29		
Peak-Hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93		
Hourly Flow Rate, HFR (veh/h)	1	4	1	23	0	31		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration		LTR			LTR			
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L	L	LTR			LTR		
v (veh/h)	6	305	54			6		
C (m) (veh/h)	1104	842	89			54		
v/c	0.01	0.36	0.61			0.11		
95% queue length	0.02	1.66	2.82			0.35		
Control Delay (s/veh)	8.3	11.7	94.3			79.8		
LOS	A	B	F			F		
Approach Delay (s/veh)	--	--	94.3			79.8		
Approach LOS	--	--	F			F		

ALL-WAY STOP CONTROL ANALYSIS									
General Information					Site Information				
Analyst	Donson Liu				Intersection	Redlands/SR-60 EB Ramps			
Agency/Co.	Urban Crossroads, Inc.				Jurisdiction	City of Moreno Valley			
Date Performed	7/9/2013				Analysis Year	EAP (2014) Conditions			
Analysis Time Period	PM PEAK HOUR								
Project ID WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)									
East/West Street: SR-60 EB Ramps (EW)					North/South Street: Redlands Blvd. (NS)				
Volume Adjustments and Site Characteristics									
Approach	Eastbound				Westbound				
Movement	L	T	R	L	T	R			
Volume (veh/h)	391	0	128	0	0	0			
%Thrus Left Lane									
Approach	Northbound				Southbound				
Movement	L	T	R	L	T	R			
Volume (veh/h)	32	347	0	0	377	55			
%Thrus Left Lane									
	Eastbound		Westbound		Northbound		Southbound		
	L1	L2	L1	L2	L1	L2	L1	L2	
Configuration	LTR				LT		TR		
PHF	0.96				0.96		0.96		
Flow Rate (veh/h)	540				394		449		
% Heavy Vehicles	0				0		0		
No. Lanes	1		0		1		1		
Geometry Group	1				1		1		
Duration, T	0.25								
Saturation Headway Adjustment Worksheet									
Prop. Left-Turns	0.8				0.1		0.0		
Prop. Right-Turns	0.2				0.0		0.1		
Prop. Heavy Vehicle	0.0				0.0		0.0		
hLT-adj	0.2	0.2			0.2	0.2	0.2	0.2	
hRT-adj	-0.6	-0.6			-0.6	-0.6	-0.6	-0.6	
hHV-adj	1.7	1.7			1.7	1.7	1.7	1.7	
hadj, computed	0.0				0.0		-0.1		
Departure Headway and Service Time									
hd, initial value (s)	3.20				3.20		3.20		
x, initial	0.48				0.35		0.40		
hd, final value (s)	6.57				6.92		6.72		
x, final value	0.99				0.76		0.84		
Move-up time, m (s)	2.0				2.0		2.0		
Service Time, t _s (s)	4.6				4.9		4.7		
Capacity and Level of Service									
	Eastbound		Westbound		Northbound		Southbound		
	L1	L2	L1	L2	L1	L2	L1	L2	
Capacity (veh/h)	547				514		531		
Delay (s/veh)	60.41				28.35		35.39		
LOS	F				D		E		
Approach: Delay (s/veh)	60.41				28.35		35.39		
LOS	F				D		E		
Intersection Delay (s/veh)	43.15								
Intersection LOS	E								

TWO-WAY STOP CONTROL SUMMARY							
General Information			Site Information				
Analyst	Donson Liu		Intersection	Redlands/Fir			
Agency/Co.	Urban Crossroads, Inc.		Jurisdiction	City of Moreno Valley			
Date Performed	7/9/2013		Analysis Year	EAP (2014) Conditions			
Analysis Time Period	PM PEAK HOUR						
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)							
East/West Street: Fir Av./Eucalyptus Av. (EW)			North/South Street: Redlands Blvd. (NS)				
Intersection Orientation: North-South			Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	0	303	1	0	504	3	
Peak-Hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	
Hourly Flow Rate, HFR (veh/h)	0	322	1	0	536	3	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration	LTR			LTR			
Upstream Signal		0			0		
Minor Street	Eastbound			Westbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	77	0	4	0	0	0	
Peak-Hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	
Hourly Flow Rate, HFR (veh/h)	81	0	4	0	0	0	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)		0			0		
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration		LTR			LTR		
Delay, Queue Length, and Level of Service							
Approach	Northbound	Southbound	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11
Lane Configuration	LTR	LTR	LTR			LTR	
v (veh/h)	0	0	0			85	
C (m) (veh/h)	1040	1248				285	
v/c	0.00	0.00				0.30	
95% queue length	0.00	0.00				1.22	
Control Delay (s/veh)	8.5	7.9				22.9	
LOS	A	A				C	
Approach Delay (s/veh)	--	--				22.9	
Approach LOS	--	--				C	

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	Donson Liu			Intersection	Redlands/Eucalyptus		
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley		
Date Performed	7/9/2013			Analysis Year	EAP (2014) Conditions		
Analysis Time Period	PM PEAK HOUR						
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)							
East/West Street: Eucalyptus Av/Encilia Av (EW)				North/South Street: Redlands Blvd. (NS)			
Intersection Orientation: North-South				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	1	291			478	30	
Peak-Hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	
Hourly Flow Rate, HFR (veh/h)	1	312	0	0	513	32	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0				0
Lanes	0	1	0	0	1	0	
Configuration	LT						TR
Upstream Signal		0			0		
Minor Street	Eastbound			Westbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	13		2				
Peak-Hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	
Hourly Flow Rate, HFR (veh/h)	13	0	2	0	0	0	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)		0			0		
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	1	0	1	0	0	0	
Configuration	L		R				
Delay, Queue Length, and Level of Service							
Approach	Northbound	Southbound	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11
Lane Configuration	LT					L	R
v (veh/h)	1					13	2
C (m) (veh/h)	1034					337	554
v/c	0.00					0.04	0.00
95% queue length	0.00					0.12	0.01
Control Delay (s/veh)	8.5					16.1	11.5
LOS	A					C	B
Approach Delay (s/veh)	--	--				15.5	
Approach LOS	--	--				C	

HCM Signalized Intersection Capacity Analysis
5: Redlands Blvd. & Cottonwood Ave.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (vph)	20	32	11	271	442	39
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0	4.0	5.0	5.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frbp, ped/bikes	1.00	1.00	1.00	1.00	1.00	0.98
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	1.00	1.00	0.85
Flt Protected	0.95	1.00	0.95	1.00	1.00	1.00
Satd. Flow (prot)	1805	1615	1805	1900	1900	1591
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00
Satd. Flow (perm)	1805	1615	1805	1900	1900	1591
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	22	36	12	304	497	44
RTOR Reduction (vph)	0	33	0	0	0	18
Lane Group Flow (vph)	22	3	12	304	497	26
Confl. Peds. (#/hr)						5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	Perm	Prot	NA	NA	Perm
Protected Phases	4		5	2	6	
Permitted Phases		4				6
Actuated Green, G (s)	3.6	3.6	1.1	31.5	26.4	26.4
Effective Green, g (s)	3.6	3.6	1.1	31.5	26.4	26.4
Actuated g/C Ratio	0.08	0.08	0.02	0.70	0.59	0.59
Clearance Time (s)	5.0	5.0	4.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	144	128	44	1327	1112	931
v/s Ratio Prot	c0.01		0.01	c0.16	c0.26	
v/s Ratio Perm		0.00				0.02
v/c Ratio	0.15	0.02	0.27	0.23	0.45	0.03
Uniform Delay, d1	19.3	19.1	21.6	2.4	5.3	3.9
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.5	0.1	3.3	0.1	0.3	0.0
Delay (s)	19.8	19.2	24.9	2.5	5.5	4.0
Level of Service	B	B	C	A	A	A
Approach Delay (s)	19.4			3.4	5.4	
Approach LOS	B			A	A	

Intersection Summary

HCM 2000 Control Delay	5.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.42		
Actuated Cycle Length (s)	45.1	Sum of lost time (s)	14.0
Intersection Capacity Utilization	37.4%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

ATTACHMENT "C"

Existing plus Ambient Growth plus Project (2014) Conditions, With Improvements
Intersection Operations Analysis Worksheets

HCM Signalized Intersection Capacity Analysis
7: Redlands Blvd. & Spruce St./SR-60 WB Ramps

Synchro 8 - Report
7/11/2013



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↘		↗	↘	
Volume (vph)	0	2	2	36	0	51	2	638	155	318	220	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0			5.0		4.0	5.0		4.0	5.0	
Lane Util. Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Frbp, ped/bikes		1.00			0.98		1.00	1.00		1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	
Frt		0.93			0.92		1.00	0.97		1.00	1.00	
Flt Protected		1.00			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1772			1683		1805	1844		1805	1899	
Flt Permitted		1.00			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (perm)		1772			1683		1805	1844		1805	1899	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	0	2	2	38	0	54	2	679	165	338	234	1
RTOR Reduction (vph)	0	2	0	0	83	0	0	5	0	0	0	0
Lane Group Flow (vph)	0	2	0	0	9	0	2	839	0	338	235	0
Confl. Peds. (#/hr)						5						5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA		Split	NA		Prot	NA		Prot	NA	
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases												
Actuated Green, G (s)		1.4			11.2		1.4	58.9		29.5	87.0	
Effective Green, g (s)		1.4			11.2		1.4	58.9		29.5	87.0	
Actuated g/C Ratio		0.01			0.09		0.01	0.49		0.25	0.72	
Clearance Time (s)		5.0			5.0		4.0	5.0		4.0	5.0	
Vehicle Extension (s)		3.0			3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)		20			157		21	905		443	1376	
v/s Ratio Prot		c0.00			c0.01		0.00	c0.45		c0.19	0.12	
v/s Ratio Perm												
v/c Ratio		0.10			0.05		0.10	0.93		0.76	0.17	
Uniform Delay, d1		58.7			49.6		58.7	28.5		42.0	5.2	
Progression Factor		1.00			1.00		1.13	0.75		1.00	1.00	
Incremental Delay, d2		2.2			0.1		1.6	14.5		7.6	0.3	
Delay (s)		60.9			49.7		68.0	35.9		49.6	5.4	
Level of Service		E			D		E	D		D	A	
Approach Delay (s)		60.9			49.7			36.0			31.5	
Approach LOS		E			D			D			C	

Intersection Summary

HCM 2000 Control Delay	35.2	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.77		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	19.0
Intersection Capacity Utilization	86.1%	ICU Level of Service	E
Analysis Period (min)	15		
c Critical Lane Group			

HCM Signalized Intersection Capacity Analysis
8: Redlands Blvd. & SR-60 EB Ramps



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (vph)	286	169	40	510	233	27
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0		4.0	5.0	5.0	
Lane Util. Factor	1.00		1.00	1.00	1.00	
Frbp, ped/bikes	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00		1.00	1.00	1.00	
Frt	0.95		1.00	1.00	0.99	
Flt Protected	0.97		0.95	1.00	1.00	
Satd. Flow (prot)	1738		1805	1900	1873	
Flt Permitted	0.97		0.95	1.00	1.00	
Satd. Flow (perm)	1738		1805	1900	1873	
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	318	188	44	567	259	30
RTOR Reduction (vph)	20	0	0	0	3	0
Lane Group Flow (vph)	486	0	44	567	286	0
Confl. Peds. (#/hr)		5				
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA		Prot	NA	NA	
Protected Phases	4		5	2	6	
Permitted Phases						
Actuated Green, G (s)	39.2		7.2	70.8	59.6	
Effective Green, g (s)	39.2		7.2	70.8	59.6	
Actuated g/C Ratio	0.33		0.06	0.59	0.50	
Clearance Time (s)	5.0		4.0	5.0	5.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	567		108	1121	930	
v/s Ratio Prot	c0.28		0.02	c0.30	0.15	
v/s Ratio Perm						
v/c Ratio	0.86		0.41	0.51	0.31	
Uniform Delay, d1	37.8		54.3	14.4	17.9	
Progression Factor	1.00		1.07	0.93	0.81	
Incremental Delay, d2	12.1		2.4	1.6	0.9	
Delay (s)	49.9		60.4	15.0	15.5	
Level of Service	D		E	B	B	
Approach Delay (s)	49.9			18.2	15.5	
Approach LOS	D			B	B	

Intersection Summary

HCM 2000 Control Delay	29.1	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.65		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	61.6%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			

HCM Signalized Intersection Capacity Analysis
 7: Redlands Blvd. & Spruce St./SR-60 WB Ramps



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↘		↗	↘	
Volume (vph)	1	4	1	22	0	29	6	590	142	284	409	27
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0			5.0		4.0	5.0		4.0	5.0	
Lane Util. Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Frbp, ped/bikes		1.00			0.98		1.00	1.00		1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	
Frt		0.98			0.92		1.00	0.97		1.00	0.99	
Flt Protected		0.99			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1842			1686		1805	1845		1805	1878	
Flt Permitted		0.99			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (perm)		1842			1686		1805	1845		1805	1878	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	1	4	1	23	0	31	6	628	151	302	435	29
RTOR Reduction (vph)	0	1	0	0	50	0	0	5	0	0	1	0
Lane Group Flow (vph)	0	5	0	0	4	0	6	774	0	302	463	0
Confl. Peds. (#/hr)						5						5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA		Split	NA		Prot	NA		Prot	NA	
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases												
Actuated Green, G (s)		1.4			9.8		1.4	62.1		27.7	88.4	
Effective Green, g (s)		1.4			9.8		1.4	62.1		27.7	88.4	
Actuated g/C Ratio		0.01			0.08		0.01	0.52		0.23	0.74	
Clearance Time (s)		5.0			5.0		4.0	5.0		4.0	5.0	
Vehicle Extension (s)		3.0			3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)		21			137		21	954		416	1383	
v/s Ratio Prot		c0.00			c0.00		0.00	c0.42		c0.17	0.25	
v/s Ratio Perm												
v/c Ratio		0.24			0.03		0.29	0.81		0.73	0.33	
Uniform Delay, d1		58.8			50.7		58.8	24.1		42.6	5.5	
Progression Factor		1.00			1.00		1.29	0.67		1.00	1.00	
Incremental Delay, d2		5.8			0.1		6.6	6.7		6.2	0.7	
Delay (s)		64.6			50.8		82.7	22.9		48.8	6.2	
Level of Service		E			D		F	C		D	A	
Approach Delay (s)		64.6			50.8			23.3			23.0	
Approach LOS		E			D			C			C	

Intersection Summary			
HCM 2000 Control Delay	24.2	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.70		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	19.0
Intersection Capacity Utilization	76.4%	ICU Level of Service	D
Analysis Period (min)	15		
c Critical Lane Group			

HCM Signalized Intersection Capacity Analysis
8: Redlands Blvd. & SR-60 EB Ramps



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (vph)	391	128	32	347	377	55
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0		4.0	5.0	5.0	
Lane Util. Factor	1.00		1.00	1.00	1.00	
Frbp, ped/bikes	1.00		1.00	1.00	1.00	
Flpb, ped/bikes	1.00		1.00	1.00	1.00	
Frt	0.97		1.00	1.00	0.98	
Flt Protected	0.96		0.95	1.00	1.00	
Satd. Flow (prot)	1762		1805	1900	1868	
Flt Permitted	0.96		0.95	1.00	1.00	
Satd. Flow (perm)	1762		1805	1900	1868	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	407	133	33	361	393	57
RTOR Reduction (vph)	12	0	0	0	4	0
Lane Group Flow (vph)	528	0	33	361	446	0
Confl. Peds. (#/hr)		5				
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA		Prot	NA	NA	
Protected Phases	4		5	2	6	
Permitted Phases						
Actuated Green, G (s)	43.0		5.3	67.0	57.7	
Effective Green, g (s)	43.0		5.3	67.0	57.7	
Actuated g/C Ratio	0.36		0.04	0.56	0.48	
Clearance Time (s)	5.0		4.0	5.0	5.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	631		79	1060	898	
v/s Ratio Prot	c0.30		0.02	c0.19	c0.24	
v/s Ratio Perm						
v/c Ratio	0.84		0.42	0.34	0.50	
Uniform Delay, d1	35.3		55.8	14.5	21.3	
Progression Factor	1.00		0.99	0.90	0.83	
Incremental Delay, d2	9.4		3.5	0.9	1.9	
Delay (s)	44.7		58.7	13.8	19.4	
Level of Service	D		E	B	B	
Approach Delay (s)	44.7			17.6	19.4	
Approach LOS	D			B	B	

Intersection Summary

HCM 2000 Control Delay	28.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.63		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	64.5%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

ATTACHMENT “D”

Existing plus Ambient Growth plus Project (2014) Conditions
Traffic Signal Warrant Analysis Worksheets

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

	<u> </u>	<u> </u>	<u> </u>		TRAFFIC CONDITIONS	EAP (2014)	
	DIST	CO	RTE	PM	CALC <u>DL</u>	DATE <u>07/11/13</u>	
Jurisdiction:	<u>City of Moreno Valley</u>				CHK <u>DL</u>	DATE <u>07/11/13</u>	
Major Street:	<u>Eucalyptus Avenue</u>				Critical Approach Speed (Major)	<u>45</u> mph	
Minor Street:	<u>Driveway 1</u>				Critical Approach Speed (Minor)	<u>25</u> mph	
Major Street Approach Lanes =	<u>1</u>			lane	Minor Street Approach Lanes:	<u>1</u> lane	
Major Street Future ADT =	<u>450</u>			vpd	Minor Street Future ADT =	<u>450</u> vpd	
Speed limit or critical speed on major street traffic > 64 km/h (40 mph);						<input checked="" type="checkbox"/>	RURAL (R)
In built up area of isolated community of < 10,000 population						<input type="checkbox"/>	

(Based on Estimated Average Daily Traffic - See Note)

<u>URBAN</u>		<u>RURAL</u>		Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>					
		XX		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Number of lanes for moving traffic on each approach		Number of lanes for moving traffic on each approach		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
<u>Major Street</u>		<u>Minor Street</u>					
1 450		1 450		8,000	5,600	2,400	1,680
2 +		1		9,600	6,720	2,400	1,680
2 +		2 +		9,600	6,720	3,200	2,240
1		2 +		8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
		XX		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
Number of lanes for moving traffic on each approach		Number of lanes for moving traffic on each approach					
<u>Major Street</u>		<u>Minor Street</u>					
1 450		1 450		12,000	8,400	1,200	850
2 +		1		14,400	10,080	1,200	850
2 +		2 +		14,400	10,080	1,600	1,120
1		2 +		12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>		2 CONDITIONS 80%		2 CONDITIONS 80%	
		XX					
No one condition satisfied, but following conditions fulfilled 80% of more		<u>A</u>	<u>B</u>				
		8%	5%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

<u>DIST</u>	<u>CO</u>	<u>RTE</u>	<u>PM</u>	<u>CALC</u>	<u>TRAFFIC CONDITIONS</u>	<u>EAP (2014)</u>
Jurisdiction: <u>City of Moreno Valley</u>				<u>DL</u>		DATE <u>09/13/13</u>
Major Street: <u>Eucalyptus Avenue</u>				<u>DL</u>		DATE <u>09/13/13</u>
Minor Street: <u>Street "A"</u>					Critical Approach Speed (Major) <u>45</u> mph	
					Critical Approach Speed (Minor) <u>25</u> mph	
Major Street Approach Lanes =		<u>1</u>	lane	Minor Street Approach Lanes =		<u>1</u> lane
Major Street Future ADT =		<u>1,550</u>	vpd	Minor Street Future ADT =		<u>650</u> vpd
Speed limit or critical speed on major street traffic > 64 km/h (40 mph);					<input checked="" type="checkbox"/>	
					or	RURAL (R)
In built up area of isolated community of < 10,000 population					<input type="checkbox"/>	

(Based on Estimated Average Daily Traffic - See Note)

<u>URBAN</u>	<u>RURAL</u>	Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
<u>Satisfied</u>	<u>Not Satisfied</u>	<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
	XX				
Number of lanes for moving traffic on each approach					
<u>Major Street</u>	<u>Minor Street</u>				
1 1,550	1 650	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
<u>Satisfied</u>	<u>Not Satisfied</u>	<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
	XX				
Number of lanes for moving traffic on each approach					
<u>Major Street</u>	<u>Minor Street</u>				
1 1,550	1 650	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B		2 CONDITIONS 80%		2 CONDITIONS 80%	
<u>Satisfied</u>	<u>Not Satisfied</u>				
No one condition satisfied, but following conditions fulfilled 80% of more	XX				
	A				
	28%				
	B				
	18%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

<u>DIST</u>	<u>CO</u>	<u>RTE</u>	<u>PM</u>	<u>CALC</u>	<u>TRAFFIC CONDITIONS</u>	<u>EAP (2014)</u>
Jurisdiction: <u>City of Moreno Valley</u>				<u>DL</u>		DATE <u>07/11/13</u>
Major Street: <u>Redlands Boulevard</u>				<u>DL</u>		DATE <u>07/11/13</u>
Minor Street: <u>Fir Avenue</u>					Critical Approach Speed (Major) <u>55</u> mph	
					Critical Approach Speed (Minor) <u>25</u> mph	

Major Street Approach Lanes = 1 lane Minor Street Approach Lanes: 1 lane

Major Street Future ADT = 10,750 vpd Minor Street Future ADT = 1,100 vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); or **RURAL (R)**

In built up area of isolated community of < 10,000 population

(Based on Estimated Average Daily Traffic - See Note)

<u>URBAN</u>		<u>RURAL</u>		Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>		Vehicles Per Day on Major Street		Vehicles Per Day on Higher-Volume Minor Street Approach	
		XX		(Total of Both Approaches)		(One Direction Only)	
<u>Major Street</u>		<u>Minor Street</u>		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
1	10,750	1	1,100	8,000	5,600 *	2,400	1,680
2 +		1		9,600	6,720	2,400	1,680
2 +		2 +		9,600	6,720	3,200	2,240
1		2 +		8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>		Vehicles Per Day on Major Street		Vehicles Per Day on Higher-Volume Minor Street Approach	
		XX		(Total of Both Approaches)		(One Direction Only)	
<u>Major Street</u>		<u>Minor Street</u>		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
1	10,750	1	1,100	12,000	8,400 *	1,200	850 *
2 +		1		14,400	10,080	1,200	850
2 +		2 +		14,400	10,080	1,600	1,120
1		2 +		12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>		2 CONDITIONS		2 CONDITIONS	
No one condition satisfied, but following conditions fulfilled 80% of more		XX		80%		80%	
		<u>A</u>	<u>B</u>				
		65%	100%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

<u>DIST</u>	<u>CO</u>	<u>RTE</u>	<u>PM</u>	TRAFFIC CONDITIONS	<u>EAP (2014)</u>
Jurisdiction: <u>City of Moreno Valley</u>				CALC <u>DL</u>	DATE <u>07/11/13</u>
Major Street: <u>Redlands Boulevard</u>				CHK <u>DL</u>	DATE <u>07/11/13</u>
Minor Street: <u>Eucalyptus Avenue</u>				Critical Approach Speed (Major)	<u>55</u> mph
				Critical Approach Speed (Minor)	<u>25</u> mph
Major Street Approach Lanes =		<u>1</u>	lane	Minor Street Approach Lanes:	<u>1</u> lane
Major Street Future ADT =		<u>9,500</u>	vpd	Minor Street Future ADT =	<u>300</u> vpd
Speed limit or critical speed on major street traffic > 64 km/h (40 mph);					<input checked="" type="checkbox"/>
					or
In built up area of isolated community of < 10,000 population					<input type="checkbox"/>

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

<u>URBAN</u>		<u>RURAL</u>		Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>					
		XX		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Number of lanes for moving traffic on each approach		Number of lanes for moving traffic on each approach		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
<u>Major Street</u>		<u>Minor Street</u>					
1 9,500		1 300		8,000	5,600 *	2,400	1,680
2 +		1		9,600	6,720	2,400	1,680
2 +		2 +		9,600	6,720	3,200	2,240
1		2 +		8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
		XX		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
Number of lanes for moving traffic on each approach		Number of lanes for moving traffic on each approach					
<u>Major Street</u>		<u>Minor Street</u>					
1 9,500		1 300		12,000	8,400 *	1,200	850
2 +		1		14,400	10,080	1,200	850
2 +		2 +		14,400	10,080	1,600	1,120
1		2 +		12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B		XX		2 CONDITIONS		2 CONDITIONS	
<u>Satisfied</u>		<u>Not Satisfied</u>		80%		80%	
No one condition satisfied, but following conditions fulfilled 80% of more		XX					
		<u>A</u>	<u>B</u>				
		18%	35%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

ATTACHMENT “E”

Existing plus Ambient plus Project plus Cumulative Development (2014) Conditions
Intersection Operations Analysis Worksheets

HCM Signalized Intersection Capacity Analysis
1: Moreno Beach Dr. & SR-60 Westbound Ramps



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	187	14	414	747	175	380
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	0.85	1.00	1.00
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (prot)	1805	1615	1900	1615	1805	1900
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (perm)	1805	1615	1900	1615	1805	1900
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	197	15	436	786	184	400
RTOR Reduction (vph)	0	10	0	63	0	0
Lane Group Flow (vph)	197	5	436	723	184	400
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	pm+ov	NA	pm+ov	Prot	NA
Protected Phases	8	1	2	8	1	6
Permitted Phases		8		2		
Actuated Green, G (s)	22.4	39.8	66.2	88.6	17.4	87.6
Effective Green, g (s)	22.4	39.8	66.2	88.6	17.4	87.6
Actuated g/C Ratio	0.19	0.33	0.55	0.74	0.14	0.73
Clearance Time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	336	535	1048	1259	261	1387
v/s Ratio Prot	0.11	0.00	0.23	c0.11	c0.10	0.21
v/s Ratio Perm		0.00		0.34		
v/c Ratio	0.59	0.01	0.42	0.57	0.70	0.29
Uniform Delay, d1	44.6	26.9	15.7	7.1	48.9	5.5
Progression Factor	1.00	1.00	0.29	1.68	1.00	1.00
Incremental Delay, d2	2.6	0.0	0.8	0.4	8.4	0.5
Delay (s)	47.2	26.9	5.4	12.4	57.2	6.1
Level of Service	D	C	A	B	E	A
Approach Delay (s)	45.7		9.9			22.2
Approach LOS	D		A			C

Intersection Summary

HCM 2000 Control Delay	17.2	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.62		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	63.4%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
 2: Moreno Beach Dr. & SR-60 Eastbound Ramps/Eucalyptus Ave.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕		↙	↘	↗	↖	↕	↗	↖	↕	↕
Volume (vph)	98	381	328	33	39	238	131	826	55	158	379	28
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0		5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Lane Util. Factor		1.00		1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.91	
Frbp, ped/bikes		0.99		1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	
Flpb, ped/bikes		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Frt		0.95		1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.99	
Flt Protected		0.99		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1772		1805	1900	1566	1805	3610	1583	1805	5134	
Flt Permitted		0.99		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1772		1805	1900	1566	1805	3610	1583	1805	5134	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	103	401	345	35	41	251	138	869	58	166	399	29
RTOR Reduction (vph)	0	21	0	0	0	226	0	0	38	0	6	0
Lane Group Flow (vph)	0	828	0	35	41	25	138	869	20	166	422	0
Confl. Peds. (#/hr)			5			5			5			
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases						8			2			
Actuated Green, G (s)		40.0		11.9	11.9	11.9	13.4	41.1	41.1	8.0	35.7	
Effective Green, g (s)		40.0		11.9	11.9	11.9	13.4	41.1	41.1	8.0	35.7	
Actuated g/C Ratio		0.33		0.10	0.10	0.10	0.11	0.34	0.34	0.07	0.30	
Clearance Time (s)		5.0		5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Vehicle Extension (s)		3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		590		178	188	155	201	1236	542	120	1527	
v/s Ratio Prot		c0.47		0.02	c0.02		0.08	c0.24		c0.09	0.08	
v/s Ratio Perm						0.02			0.01			
v/c Ratio		1.40		0.20	0.22	0.16	0.69	0.70	0.04	1.38	0.28	
Uniform Delay, d1		40.0		49.7	49.8	49.5	51.3	34.2	26.3	56.0	32.3	
Progression Factor		1.00		1.00	1.00	1.00	1.00	1.00	1.00	0.97	0.89	
Incremental Delay, d2		191.8		0.5	0.6	0.5	9.3	3.4	0.1	214.8	0.4	
Delay (s)		231.8		50.2	50.4	50.0	60.6	37.5	26.4	269.0	29.0	
Level of Service		F		D	D	D	E	D	C	F	C	
Approach Delay (s)		231.8			50.0			39.9			96.1	
Approach LOS		F			D			D			F	

Intersection Summary		
HCM 2000 Control Delay	110.3	HCM 2000 Level of Service
HCM 2000 Volume to Capacity ratio	0.98	F
Actuated Cycle Length (s)	120.0	Sum of lost time (s)
Intersection Capacity Utilization	97.6%	19.0
Analysis Period (min)	15	ICU Level of Service
		F
c Critical Lane Group		

TWO-WAY STOP CONTROL SUMMARY								
General Information			Site Information					
Analyst	Donson Liu		Intersection	Quincy/Eucalyptus				
Agency/Co.	Urban Crossroads, Inc.		Jurisdiction	City of Moreno Valley				
Date Performed	7/11/2013		Analysis Year	EAPC (2014) Conditions				
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)			North/South Street: Quincy St. (NS)					
Intersection Orientation: East-West			Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)		169	5	10	172			
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	169	5	10	172	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	1	1	0		
Configuration			TR	L	T			
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	6	0	21					
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	6	0	21	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	0	0		
Configuration		LTR						
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		L		LTR				
v (veh/h)		10		27				
C (m) (veh/h)		1415		808				
v/c		0.01		0.03				
95% queue length		0.02		0.10				
Control Delay (s/veh)		7.6		9.6				
LOS		A		A				
Approach Delay (s/veh)	--	--		9.6				
Approach LOS	--	--		A				

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Dwy. 1/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/11/2013			Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)				North/South Street: Driveway 1 (NS)				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	16	174			182	37		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	16	174	0	0	182	37		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	0	1	1		
Configuration	L	T			T	R		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)				0	0	0		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	1	0		
Configuration					LTR			
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L						LTR	
v (veh/h)	16						0	
C (m) (veh/h)	1362							
v/c	0.01							
95% queue length	0.04							
Control Delay (s/veh)	7.7							
LOS	A							
Approach Delay (s/veh)	--	--						
Approach LOS	--	--						

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Street A/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	9/13/2013			Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)				North/South Street: Street A (NS)				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	14	160			218	112		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	14	160	0	0	218	112		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	0	1	0		
Configuration	L	T				TR		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)				24		1		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	24	0	1		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	1	0	1		
Configuration				L		R		
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L					L		R
v (veh/h)	14					24		1
C (m) (veh/h)	1241					556		770
v/c	0.01					0.04		0.00
95% queue length	0.03					0.14		0.00
Control Delay (s/veh)	7.9					11.8		9.7
LOS	A					B		A
Approach Delay (s/veh)	--	--				11.7		
Approach LOS	--	--				B		

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Redlands/Spruce/SR-60 WB			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/11/2013			Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Spruce St./SR-60 WB (EW)				North/South Street: Redlands Blvd. (NS)				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	2	696	430	318	291	1		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	2	732	452	334	306	1		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	1	1	0		
Configuration	L		TR	L		TR		
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	0	2	2	183	0	51		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	0	2	2	192	0	53		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration		LTR			LTR			
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L	L	LTR			LTR		
v (veh/h)	2	334	245			4		
C (m) (veh/h)	1265	597	32			41		
v/c	0.00	0.56	7.66			0.10		
95% queue length	0.00	3.45	29.72			0.30		
Control Delay (s/veh)	7.9	18.4	3237			102.1		
LOS	A	C	F			F		
Approach Delay (s/veh)	--	--	3237			102.1		
Approach LOS	--	--	F			F		

ALL-WAY STOP CONTROL ANALYSIS									
General Information					Site Information				
Analyst	Donson Liu				Intersection	Redlands/SR-60 EB Ramps			
Agency/Co.	Urban Crossroads, Inc.				Jurisdiction	City of Moreno Valley			
Date Performed	7/11/2013				Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	AM PEAK HOUR								
Project ID WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)									
East/West Street: SR-60 EB Ramps (EW)					North/South Street: Redlands Blvd. (NS)				
Volume Adjustments and Site Characteristics									
Approach		Eastbound			Westbound				
Movement	L	T	R	L	T	R			
Volume (veh/h)	286	0	480	0	0	0			
%Thrus Left Lane									
Approach		Northbound			Southbound				
Movement	L	T	R	L	T	R			
Volume (veh/h)	184	842	0	0	450	27			
%Thrus Left Lane									
		Eastbound		Westbound		Northbound		Southbound	
		L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR				LT		TR		
PHF	0.95				0.95		0.95		
Flow Rate (veh/h)	806				1079		501		
% Heavy Vehicles	0				0		0		
No. Lanes	1		0		1		1		
Geometry Group	1				1		1		
Duration, T					0.25				
Saturation Headway Adjustment Worksheet									
Prop. Left-Turns	0.4				0.2		0.0		
Prop. Right-Turns	0.6				0.0		0.1		
Prop. Heavy Vehicle	0.0				0.0		0.0		
hLT-adj	0.2	0.2			0.2	0.2	0.2	0.2	
hRT-adj	-0.6	-0.6			-0.6	-0.6	-0.6	-0.6	
hHV-adj	1.7	1.7			1.7	1.7	1.7	1.7	
hadj, computed	-0.3				0.0		-0.0		
Departure Headway and Service Time									
hd, initial value (s)	3.20				3.20		3.20		
x, initial	0.72				0.96		0.45		
hd, final value (s)	6.80				7.17		7.11		
x, final value	1.52				2.15		0.99		
Move-up time, m (s)	2.0				2.0		2.0		
Service Time, t _s (s)	4.8				5.2		5.1		
Capacity and Level of Service									
		Eastbound		Westbound		Northbound		Southbound	
		L1	L2	L1	L2	L1	L2	L1	L2
Capacity (veh/h)	806				1079		507		
Delay (s/veh)	262.89				539.71		63.97		
LOS	F				F		F		
Approach: Delay (s/veh)	262.89				539.71		63.97		
LOS	F				F		F		
Intersection Delay (s/veh)					346.31				
Intersection LOS					F				

TWO-WAY STOP CONTROL SUMMARY								
General Information			Site Information					
Analyst	Donson Liu		Intersection	Redlands/Fir				
Agency/Co.	Urban Crossroads, Inc.		Jurisdiction	City of Moreno Valley				
Date Performed	7/11/2013		Analysis Year	EAPC (2014) Conditions				
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Fir Av./Eucalyptus Av. (EW)			North/South Street: Redlands Blvd. (NS)					
Intersection Orientation: North-South			Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	47	654	72	349	302	279		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	49	688	75	367	317	293		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LTR			LTR				
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	136	37	18	37	27	236		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	143	38	18	38	28	248		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration		LTR			LTR			
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LTR	LTR	LTR			LTR		
v (veh/h)	49	367	314			199		
C (m) (veh/h)	979	859	0			0		
v/c	0.05	0.43						
95% queue length	0.16	2.16						
Control Delay (s/veh)	8.9	12.3						
LOS	A	B	F			F		
Approach Delay (s/veh)	--	--						
Approach LOS	--	--						

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Redlands/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/11/2013			Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	AM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Av/Encilia Av (EW)				North/South Street: Redlands Blvd. (NS)				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	4	726			345	11		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	4	764	0	0	363	11		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	46		11					
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	48	0	11	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	1	0	1	0	0	0		
Configuration	L		R					
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT					L		R
v (veh/h)	4					48		11
C (m) (veh/h)	1196					223		682
v/c	0.00					0.22		0.02
95% queue length	0.01					0.79		0.05
Control Delay (s/veh)	8.0					25.5		10.4
LOS	A					D		B
Approach Delay (s/veh)	--	--				22.7		
Approach LOS	--	--				C		

HCM Signalized Intersection Capacity Analysis
5: Redlands Blvd. & Cottonwood Ave.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (vph)	91	47	72	639	313	44
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0	4.0	5.0	5.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frbp, ped/bikes	1.00	1.00	1.00	1.00	1.00	0.98
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	1.00	1.00	0.85
Flt Protected	0.95	1.00	0.95	1.00	1.00	1.00
Satd. Flow (prot)	1805	1615	1805	1900	1900	1591
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00
Satd. Flow (perm)	1805	1615	1805	1900	1900	1591
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	96	49	76	673	329	46
RTOR Reduction (vph)	0	42	0	0	0	25
Lane Group Flow (vph)	96	7	76	673	329	21
Confl. Peds. (#/hr)						5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	Perm	Prot	NA	NA	Perm
Protected Phases	4		5	2	6	
Permitted Phases		4				6
Actuated Green, G (s)	6.5	6.5	4.6	29.4	20.8	20.8
Effective Green, g (s)	6.5	6.5	4.6	29.4	20.8	20.8
Actuated g/C Ratio	0.14	0.14	0.10	0.64	0.45	0.45
Clearance Time (s)	5.0	5.0	4.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	255	228	180	1216	861	720
v/s Ratio Prot	c0.05		0.04	c0.35	0.17	
v/s Ratio Perm		0.00				0.01
v/c Ratio	0.38	0.03	0.42	0.55	0.38	0.03
Uniform Delay, d1	17.9	17.0	19.4	4.6	8.3	7.0
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.9	0.1	1.6	0.5	0.3	0.0
Delay (s)	18.8	17.0	21.0	5.1	8.6	7.0
Level of Service	B	B	C	A	A	A
Approach Delay (s)	18.2			6.8	8.4	
Approach LOS	B			A	A	

Intersection Summary			
HCM 2000 Control Delay	8.5	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.59		
Actuated Cycle Length (s)	45.9	Sum of lost time (s)	14.0
Intersection Capacity Utilization	47.8%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

HCM Signalized Intersection Capacity Analysis
 1: Moreno Beach Dr. & SR-60 Westbound Ramps



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	248	26	398	896	72	281
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	0.85	1.00	1.00
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (prot)	1805	1615	1900	1615	1805	1900
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (perm)	1805	1615	1900	1615	1805	1900
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	258	27	415	933	75	293
RTOR Reduction (vph)	0	18	0	43	0	0
Lane Group Flow (vph)	258	9	415	890	75	293
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	pm+ov	NA	pm+ov	Prot	NA
Protected Phases	8	1	2	8	1	6
Permitted Phases		8		2		
Actuated Green, G (s)	35.0	41.4	64.6	99.6	6.4	75.0
Effective Green, g (s)	35.0	41.4	64.6	99.6	6.4	75.0
Actuated g/C Ratio	0.29	0.34	0.54	0.83	0.05	0.62
Clearance Time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	526	611	1022	1407	96	1187
v/s Ratio Prot	0.14	0.00	0.22	c0.18	c0.04	0.15
v/s Ratio Perm		0.00		0.37		
v/c Ratio	0.49	0.02	0.41	0.63	0.78	0.25
Uniform Delay, d1	35.1	25.9	16.4	3.7	56.1	10.0
Progression Factor	1.00	1.00	1.01	3.56	1.00	1.00
Incremental Delay, d2	0.7	0.0	0.8	0.6	32.8	0.5
Delay (s)	35.9	25.9	17.3	13.6	88.9	10.5
Level of Service	D	C	B	B	F	B
Approach Delay (s)	34.9		14.7			26.5
Approach LOS	C		B			C

Intersection Summary			
HCM 2000 Control Delay	19.8	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.67		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	68.8%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
 2: Moreno Beach Dr. & SR-60 Eastbound Ramps/Eucalyptus Ave.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔		↖	↗	↖	↖	↗	↖	↖	↗	↗
Volume (vph)	100	294	650	87	113	546	120	647	46	111	392	25
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0		5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Lane Util. Factor		1.00		1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.91	
Frbp, ped/bikes		0.99		1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	
Flpb, ped/bikes		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Frt		0.92		1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.99	
Flt Protected		1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1712		1805	1900	1566	1805	3610	1583	1805	5141	
Flt Permitted		1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1712		1805	1900	1566	1805	3610	1583	1805	5141	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	105	309	684	92	119	575	126	681	48	117	413	26
RTOR Reduction (vph)	0	49	0	0	0	498	0	0	34	0	5	0
Lane Group Flow (vph)	0	1049	0	92	119	77	126	681	14	117	434	0
Confl. Peds. (#/hr)			5			5			5			
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases						8			2			
Actuated Green, G (s)		44.0		16.0	16.0	16.0	11.0	34.0	34.0	7.0	30.0	
Effective Green, g (s)		44.0		16.0	16.0	16.0	11.0	34.0	34.0	7.0	30.0	
Actuated g/C Ratio		0.37		0.13	0.13	0.13	0.09	0.28	0.28	0.06	0.25	
Clearance Time (s)		5.0		5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Vehicle Extension (s)		3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		627		240	253	208	165	1022	448	105	1285	
v/s Ratio Prot		c0.61		0.05	c0.06		c0.07	c0.19		c0.06	0.08	
v/s Ratio Perm						0.05			0.01			
v/c Ratio		1.67		0.38	0.47	0.37	0.76	0.67	0.03	1.11	0.34	
Uniform Delay, d1		38.0		47.5	48.1	47.4	53.2	38.0	31.1	56.5	36.9	
Progression Factor		1.00		1.00	1.00	1.00	1.00	1.00	1.00	0.82	1.36	
Incremental Delay, d2		309.6		1.0	1.4	1.1	18.7	3.4	0.1	121.0	0.7	
Delay (s)		347.6		48.5	49.5	48.5	71.9	41.4	31.2	167.5	50.7	
Level of Service		F		D	D	D	E	D	C	F	D	
Approach Delay (s)		347.6			48.7			45.3			75.2	
Approach LOS		F			D			D			E	

Intersection Summary		
HCM 2000 Control Delay	151.9	HCM 2000 Level of Service
HCM 2000 Volume to Capacity ratio	1.10	F
Actuated Cycle Length (s)	120.0	Sum of lost time (s)
Intersection Capacity Utilization	126.4%	19.0
Analysis Period (min)	15	ICU Level of Service
c Critical Lane Group		H

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Quincy/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/11/2013			Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	PM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)				North/South Street: Quincy St. (NS)				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)		247	8	35	187			
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	247	8	35	187	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	1	1	0		
Configuration			TR	L	T			
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	4	0	27					
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	4	0	27	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	0	0		
Configuration		LTR						
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		L		LTR				
v (veh/h)		35		31				
C (m) (veh/h)		1322		741				
v/c		0.03		0.04				
95% queue length		0.08		0.13				
Control Delay (s/veh)		7.8		10.1				
LOS		A		B				
Approach Delay (s/veh)	--	--	10.1					
Approach LOS	--	--	B					

TWO-WAY STOP CONTROL SUMMARY								
General Information			Site Information					
Analyst	Donson Liu		Intersection	Dwy. 1/Eucalyptus				
Agency/Co.	Urban Crossroads, Inc.		Jurisdiction	City of Moreno Valley				
Date Performed	7/11/2013		Analysis Year	EAPC (2014) Conditions				
Analysis Time Period	PM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)			North/South Street: Driveway 1 (NS)					
Intersection Orientation: East-West			Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	0	274			215	0		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	274	0	0	215	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	0	1	1		
Configuration	L	T			T	R		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)				16	0	7		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	16	0	7		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	1	0		
Configuration					LTR			
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L						LTR	
v (veh/h)	0						23	
C (m) (veh/h)	1367						606	
v/c	0.00						0.04	
95% queue length	0.00						0.12	
Control Delay (s/veh)	7.6						11.2	
LOS	A						B	
Approach Delay (s/veh)	--	--					11.2	
Approach LOS	--	--					B	

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Street A/Eucalyptus			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	9/13/2013			Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	PM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Eucalyptus Ave. (EW)				North/South Street: Street A (NS)				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street		Eastbound			Westbound			
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	6	284			200	103		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	6	284	0	0	200	103		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0					0
Lanes	1	1	0	0	1	0		
Configuration	L	T						TR
Upstream Signal		0			0			
Minor Street		Northbound			Southbound			
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)				160		15		
Peak-Hour Factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	0	0	0	160	0	15		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		0			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	1	0	1		
Configuration				L		R		
Delay, Queue Length, and Level of Service								
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L					L		R
v (veh/h)	6					160		15
C (m) (veh/h)	1269					499		792
v/c	0.00					0.32		0.02
95% queue length	0.01					1.37		0.06
Control Delay (s/veh)	7.9					15.6		9.6
LOS	A					C		A
Approach Delay (s/veh)	--	--				15.1		
Approach LOS	--	--				C		

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	Donson Liu			Intersection	Redlands/Spruce/SR-60 WB			
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley			
Date Performed	7/11/2013			Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	PM PEAK HOUR							
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)								
East/West Street: Spruce St./SR-60 WB (EW)				North/South Street: Redlands Blvd. (NS)				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	6	700	660	284	504	27		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	6	736	694	298	530	28		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	1	1	0	1	1	0		
Configuration	L		TR	L		TR		
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	1	4	1	193	0	29		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	1	4	1	203	0	30		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration		LTR			LTR			
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L	L	LTR			LTR		
v (veh/h)	6	298	233			6		
C (m) (veh/h)	1023	482	13			13		
v/c	0.01	0.62	17.92			0.46		
95% queue length	0.02	4.12	30.38			1.13		
Control Delay (s/veh)	8.5	23.8	8180			429.5		
LOS	A	C	F			F		
Approach Delay (s/veh)	--	--	8180			429.5		
Approach LOS	--	--	F			F		

ALL-WAY STOP CONTROL ANALYSIS									
General Information					Site Information				
Analyst	Donson Liu				Intersection	Redlands/SR-60 EB Ramps			
Agency/Co.	Urban Crossroads, Inc.				Jurisdiction	City of Moreno Valley			
Date Performed	7/11/2013				Analysis Year	EAPC (2014) Conditions			
Analysis Time Period	PM PEAK HOUR								
Project ID WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)									
East/West Street: SR-60 EB Ramps (EW)					North/South Street: Redlands Blvd. (NS)				
Volume Adjustments and Site Characteristics									
Approach	Eastbound				Westbound				
Movement	L	T	R	L	T	R	L	R	
Volume (veh/h)	391	0	548	0	0	0			
%Thrus Left Lane									
Approach	Northbound				Southbound				
Movement	L	T	R	L	T	R	L	R	
Volume (veh/h)	247	975	0	0	644	55			
%Thrus Left Lane									
	Eastbound		Westbound		Northbound		Southbound		
	L1	L2	L1	L2	L1	L2	L1	L2	
Configuration	LTR				LT		TR		
PHF	0.96				0.96		0.96		
Flow Rate (veh/h)	977				1272		727		
% Heavy Vehicles	0				0		0		
No. Lanes	1		0		1		1		
Geometry Group	1				1		1		
Duration, T	0.25								
Saturation Headway Adjustment Worksheet									
Prop. Left-Turns	0.4				0.2		0.0		
Prop. Right-Turns	0.6				0.0		0.1		
Prop. Heavy Vehicle	0.0				0.0		0.0		
hLT-adj	0.2	0.2			0.2	0.2	0.2	0.2	
hRT-adj	-0.6	-0.6			-0.6	-0.6	-0.6	-0.6	
hHV-adj	1.7	1.7			1.7	1.7	1.7	1.7	
hadj, computed	-0.3				0.0		-0.0		
Departure Headway and Service Time									
hd, initial value (s)	3.20				3.20		3.20		
x, initial	0.87				1.13		0.65		
hd, final value (s)	6.85				7.18		7.09		
x, final value	1.86				2.54		1.43		
Move-up time, m (s)	2.0				2.0		2.0		
Service Time, t _s (s)	4.8				5.2		5.1		
Capacity and Level of Service									
	Eastbound		Westbound		Northbound		Southbound		
	L1	L2	L1	L2	L1	L2	L1	L2	
Capacity (veh/h)	977				1272		727		
Delay (s/veh)	410.18				714.15		225.92		
LOS	F				F		F		
Approach: Delay (s/veh)	410.18				714.15		225.92		
LOS	F				F		F		
Intersection Delay (s/veh)	495.09								
Intersection LOS	F								

TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information						
Analyst	<i>Donson Liu</i>	Intersection	<i>Redlands/Fir</i>					
Agency/Co.	<i>Urban Crossroads, Inc.</i>	Jurisdiction	<i>City of Moreno Valley</i>					
Date Performed	<i>7/11/2013</i>	Analysis Year	<i>EAPC (2014) Conditions</i>					
Analysis Time Period	<i>PM PEAK HOUR</i>							
Project Description <i>WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)</i>								
East/West Street: <i>Fir Av./Eucalyptus Av. (EW)</i>			North/South Street: <i>Redlands Blvd. (NS)</i>					
Intersection Orientation: <i>North-South</i>			Study Period (hrs): <i>0.25</i>					
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	57	374	78	332	625	236		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	60	393	82	349	657	248		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	<i>Undivided</i>							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	<i>LTR</i>			<i>LTR</i>				
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	369	50	78	102	56	479		
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95		
Hourly Flow Rate, HFR (veh/h)	388	52	82	107	58	504		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	<i>LTR</i>			<i>LTR</i>				
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	<i>LTR</i>	<i>LTR</i>	<i>LTR</i>			<i>LTR</i>		
v (veh/h)	60	349	669			522		
C (m) (veh/h)	760	1098	0			0		
v/c	0.08	0.32						
95% queue length	0.26	1.38						
Control Delay (s/veh)	10.1	9.8						
LOS	<i>B</i>	<i>A</i>	<i>F</i>			<i>F</i>		
Approach Delay (s/veh)	--	--						
Approach LOS	--	--						

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	Donson Liu			Intersection	Redlands/Eucalyptus		
Agency/Co.	Urban Crossroads, Inc.			Jurisdiction	City of Moreno Valley		
Date Performed	7/11/2013			Analysis Year	EAPC (2014) Conditions		
Analysis Time Period	PM PEAK HOUR						
Project Description WESTRIDGE COMMERCE CENTER TRAFFIC IMPACT ANALYSIS (JN 08721)							
East/West Street: Eucalyptus Av/Encilia Av (EW)				North/South Street: Redlands Blvd. (NS)			
Intersection Orientation: North-South				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	1	475		1	747	57	
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	
Hourly Flow Rate, HFR (veh/h)	1	500	0	1	786	60	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0				0
Lanes	0	1	0	0	1	0	
Configuration	LT			LTR			
Upstream Signal		0			0		
Minor Street	Eastbound			Westbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	33	0	2				
Peak-Hour Factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	
Hourly Flow Rate, HFR (veh/h)	34	0	2	0	0	0	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)		0			0		
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0				0
Lanes	0	1	0	0	0	0	
Configuration		LTR					
Delay, Queue Length, and Level of Service							
Approach	Northbound	Southbound	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11 12
Lane Configuration	LT	LTR					LTR
v (veh/h)	1	1					36
C (m) (veh/h)	800	1075					180
v/c	0.00	0.00					0.20
95% queue length	0.00	0.00					0.72
Control Delay (s/veh)	9.5	8.4					29.9
LOS	A	A					D
Approach Delay (s/veh)	--	--					29.9
Approach LOS	--	--					D

HCM Signalized Intersection Capacity Analysis
5: Redlands Blvd. & Cottonwood Ave.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (vph)	67	72	34	408	644	105
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0	4.0	5.0	5.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frbp, ped/bikes	1.00	1.00	1.00	1.00	1.00	0.98
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	1.00	1.00	0.85
Flt Protected	0.95	1.00	0.95	1.00	1.00	1.00
Satd. Flow (prot)	1805	1615	1805	1900	1900	1590
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00
Satd. Flow (perm)	1805	1615	1805	1900	1900	1590
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	71	76	36	429	678	111
RTOR Reduction (vph)	0	67	0	0	0	47
Lane Group Flow (vph)	71	9	36	429	678	64
Confl. Peds. (#/hr)						5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	Perm	Prot	NA	NA	Perm
Protected Phases	4		5	2	6	
Permitted Phases		4				6
Actuated Green, G (s)	6.5	6.5	2.4	37.8	31.4	31.4
Effective Green, g (s)	6.5	6.5	2.4	37.8	31.4	31.4
Actuated g/C Ratio	0.12	0.12	0.04	0.70	0.58	0.58
Clearance Time (s)	5.0	5.0	4.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	216	193	79	1322	1098	919
v/s Ratio Prot	c0.04		0.02	c0.23	c0.36	
v/s Ratio Perm		0.01				0.04
v/c Ratio	0.33	0.05	0.46	0.32	0.62	0.07
Uniform Delay, d1	21.9	21.2	25.3	3.2	7.5	5.0
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.9	0.1	4.1	0.1	1.0	0.0
Delay (s)	22.8	21.3	29.4	3.4	8.6	5.1
Level of Service	C	C	C	A	A	A
Approach Delay (s)	22.0			5.4	8.1	
Approach LOS	C			A	A	

Intersection Summary

HCM 2000 Control Delay	8.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.57		
Actuated Cycle Length (s)	54.3	Sum of lost time (s)	14.0
Intersection Capacity Utilization	48.1%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

ATTACHMENT "F"

Existing plus Ambient plus Project plus Cumulative Development (2014) Conditions, With Improvements
Intersection Operations Analysis Worksheets

HCM Signalized Intersection Capacity Analysis
 1: Moreno Beach Dr. & SR-60 Westbound Ramps



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	187	14	414	747	175	380
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	0.85	1.00	1.00
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (prot)	1805	1615	1900	1615	1805	1900
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (perm)	1805	1615	1900	1615	1805	1900
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	197	15	436	786	184	400
RTOR Reduction (vph)	0	10	0	63	0	0
Lane Group Flow (vph)	197	5	436	723	184	400
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	pm+ov	NA	pm+ov	Prot	NA
Protected Phases	8	1	2	8	1	6
Permitted Phases		8		2		
Actuated Green, G (s)	22.4	39.8	66.2	88.6	17.4	87.6
Effective Green, g (s)	22.4	39.8	66.2	88.6	17.4	87.6
Actuated g/C Ratio	0.19	0.33	0.55	0.74	0.14	0.73
Clearance Time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	336	535	1048	1259	261	1387
v/s Ratio Prot	0.11	0.00	0.23	c0.11	c0.10	0.21
v/s Ratio Perm		0.00		0.34		
v/c Ratio	0.59	0.01	0.42	0.57	0.70	0.29
Uniform Delay, d1	44.6	26.9	15.7	7.1	48.9	5.5
Progression Factor	1.00	1.00	0.33	1.72	1.00	1.00
Incremental Delay, d2	2.6	0.0	0.9	0.5	8.4	0.5
Delay (s)	47.2	26.9	6.1	12.7	57.2	6.1
Level of Service	D	C	A	B	E	A
Approach Delay (s)	45.7		10.4			22.2
Approach LOS	D		B			C

Intersection Summary			
HCM 2000 Control Delay	17.5	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.62		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	63.4%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
 2: Moreno Beach Dr. & SR-60 Eastbound Ramps/Eucalyptus Ave.

Synchro 8 - Report
 7/11/2013



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕	↗	↖	↕	↗	↖	↕	↗	↖	↕	↗
Volume (vph)	98	381	328	33	39	238	131	826	55	158	379	28
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Lane Util. Factor		1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.91	
Frbp, ped/bikes		1.00	0.98	1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	
Flpb, ped/bikes		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Frt		1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.99	
Flt Protected		0.99	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1881	1585	1805	1900	1566	1805	3610	1583	1805	5134	
Flt Permitted		0.99	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1881	1585	1805	1900	1566	1805	3610	1583	1805	5134	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	103	401	345	35	41	251	138	869	58	166	399	29
RTOR Reduction (vph)	0	0	243	0	0	226	0	0	38	0	5	0
Lane Group Flow (vph)	0	504	102	35	41	25	138	869	20	166	423	0
Confl. Peds. (#/hr)			5			5			5			
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA	Perm	Split	NA	Perm	Prot	NA	Perm	Prot	NA	
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases			4			8			2			
Actuated Green, G (s)		35.6	35.6	11.9	11.9	11.9	13.7	42.4	42.4	11.1	39.8	
Effective Green, g (s)		35.6	35.6	11.9	11.9	11.9	13.7	42.4	42.4	11.1	39.8	
Actuated g/C Ratio		0.30	0.30	0.10	0.10	0.10	0.11	0.35	0.35	0.09	0.33	
Clearance Time (s)		5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		558	470	178	188	155	206	1275	559	166	1702	
v/s Ratio Prot		c0.27		0.02	c0.02		0.08	c0.24		c0.09	0.08	
v/s Ratio Perm			0.06			0.02			0.01			
v/c Ratio		0.90	0.22	0.20	0.22	0.16	0.67	0.68	0.04	1.00	0.25	
Uniform Delay, d1		40.5	31.7	49.7	49.8	49.5	51.0	33.0	25.4	54.5	29.2	
Progression Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	0.90	
Incremental Delay, d2		17.9	0.2	0.5	0.6	0.5	8.0	3.0	0.1	68.9	0.3	
Delay (s)		58.5	32.0	50.2	50.4	50.0	59.0	36.0	25.5	122.2	26.6	
Level of Service		E	C	D	D	D	E	D	C	F	C	
Approach Delay (s)		47.7			50.0			38.4			53.3	
Approach LOS		D			D			D			D	

Intersection Summary		
HCM 2000 Control Delay	45.7	HCM 2000 Level of Service
HCM 2000 Volume to Capacity ratio	0.74	D
Actuated Cycle Length (s)	120.0	Sum of lost time (s)
Intersection Capacity Utilization	77.3%	19.0
Analysis Period (min)	15	ICU Level of Service
c Critical Lane Group		D

HCM Signalized Intersection Capacity Analysis
 7: Redlands Blvd. & Spruce St./SR-60 WB Ramps



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↕	↗	↗	↕	↕
Volume (vph)	0	2	2	183	0	51	2	696	430	318	291	1
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0			5.0		4.0	5.0	5.0	4.0	5.0	
Lane Util. Factor		1.00			1.00		1.00	0.95	1.00	1.00	0.95	
Frbp, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frt		0.93			0.97		1.00	1.00	0.85	1.00	1.00	
Flt Protected		1.00			0.96		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1772			1767		1805	3610	1615	1805	3608	
Flt Permitted		1.00			0.96		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1772			1767		1805	3610	1615	1805	3608	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	0	2	2	193	0	54	2	733	453	335	306	1
RTOR Reduction (vph)	0	2	0	0	126	0	0	0	154	0	0	0
Lane Group Flow (vph)	0	2	0	0	121	0	2	733	299	335	307	0
Confl. Peds. (#/hr)						5						5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA		Split	NA		Prot	NA	pm+ov	Prot	NA	
Protected Phases	4	4		8	8		5	2	8	1	6	
Permitted Phases									2			
Actuated Green, G (s)		1.4			15.5		1.4	55.0	70.5	29.1	82.7	
Effective Green, g (s)		1.4			15.5		1.4	55.0	70.5	29.1	82.7	
Actuated g/C Ratio		0.01			0.13		0.01	0.46	0.59	0.24	0.69	
Clearance Time (s)		5.0			5.0		4.0	5.0	5.0	4.0	5.0	
Vehicle Extension (s)		3.0			3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		20			228		21	1654	1016	437	2486	
v/s Ratio Prot		c0.00			c0.07		0.00	c0.20	0.04	c0.19	0.09	
v/s Ratio Perm									0.15			
v/c Ratio		0.10			0.53		0.10	0.44	0.29	0.77	0.12	
Uniform Delay, d1		58.7			48.8		58.7	22.1	12.3	42.3	6.3	
Progression Factor		1.00			1.00		1.12	0.48	0.04	1.00	1.00	
Incremental Delay, d2		2.2			2.2		1.9	0.8	0.2	7.9	0.1	
Delay (s)		60.9			51.1		67.6	11.4	0.6	50.1	6.4	
Level of Service		E			D		E	B	A	D	A	
Approach Delay (s)		60.9			51.1			7.4			29.2	
Approach LOS		E			D			A			C	

Intersection Summary			
HCM 2000 Control Delay	19.4	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.54		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	19.0
Intersection Capacity Utilization	69.1%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

HCM Signalized Intersection Capacity Analysis
8: Redlands Blvd. & SR-60 EB Ramps



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (vph)	286	480	184	842	450	27
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0	4.0	5.0	5.0	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	
Frbp, ped/bikes	1.00	0.98	1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	
Frt	1.00	0.85	1.00	1.00	0.99	
Flt Protected	0.95	1.00	0.95	1.00	1.00	
Satd. Flow (prot)	1805	1585	1805	3610	3580	
Flt Permitted	0.95	1.00	0.95	1.00	1.00	
Satd. Flow (perm)	1805	1585	1805	3610	3580	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	301	505	194	886	474	28
RTOR Reduction (vph)	0	394	0	0	2	0
Lane Group Flow (vph)	301	111	194	886	500	0
Confl. Peds. (#/hr)		5				
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	Perm	Prot	NA	NA	
Protected Phases	4		5	2	6	
Permitted Phases		4				
Actuated Green, G (s)	26.3	26.3	18.2	83.7	61.5	
Effective Green, g (s)	26.3	26.3	18.2	83.7	61.5	
Actuated g/C Ratio	0.22	0.22	0.15	0.70	0.51	
Clearance Time (s)	5.0	5.0	4.0	5.0	5.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	395	347	273	2517	1834	
v/s Ratio Prot	c0.17		c0.11	c0.25	0.14	
v/s Ratio Perm		0.07				
v/c Ratio	0.76	0.32	0.71	0.35	0.27	
Uniform Delay, d1	43.9	39.3	48.4	7.3	16.6	
Progression Factor	1.00	1.00	0.72	0.74	0.83	
Incremental Delay, d2	8.4	0.5	7.8	0.4	0.4	
Delay (s)	52.4	39.9	42.8	5.7	14.1	
Level of Service	D	D	D	A	B	
Approach Delay (s)	44.5			12.4	14.1	
Approach LOS	D			B	B	

Intersection Summary

HCM 2000 Control Delay	23.6	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.52		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	52.2%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

HCM Signalized Intersection Capacity Analysis
 9: Redlands Blvd. & Eucalyptus Ave./Fir Ave.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔↔	↕↔		↔	↕↕	↔	↔	↕↔		↔↔	↕↕	↔
Volume (vph)	136	37	18	37	27	236	47	654	72	349	302	279
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	5.0		4.0	5.0	4.0	4.0	5.0		4.0	5.0	4.0
Lane Util. Factor	0.97	0.95		1.00	0.95	1.00	1.00	0.95		0.97	0.95	1.00
Frbp, ped/bikes	1.00	0.99		1.00	1.00	1.00	1.00	1.00		1.00	1.00	0.98
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Frt	1.00	0.95		1.00	1.00	0.85	1.00	0.99		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3502	3410		1805	3610	1612	1805	3551		3502	3610	1587
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3502	3410		1805	3610	1612	1805	3551		3502	3610	1587
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	143	39	19	39	28	248	49	688	76	367	318	294
RTOR Reduction (vph)	0	17	0	0	0	124	0	6	0	0	0	72
Lane Group Flow (vph)	143	41	0	39	28	124	49	758	0	367	318	222
Confl. Peds. (#/hr)			5			5			5			5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Prot	NA		Prot	NA	pm+ov	Prot	NA		Prot	NA	pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Actuated Green, G (s)	12.0	12.1		4.2	4.3	37.1	7.0	52.9		32.8	78.7	90.7
Effective Green, g (s)	12.0	12.1		4.2	4.3	37.1	7.0	52.9		32.8	78.7	90.7
Actuated g/C Ratio	0.10	0.10		0.04	0.04	0.31	0.06	0.44		0.27	0.66	0.76
Clearance Time (s)	4.0	5.0		4.0	5.0	4.0	4.0	5.0		4.0	5.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	350	343		63	129	552	105	1565		957	2367	1199
v/s Ratio Prot	c0.04	0.01		c0.02	0.01	0.06	0.03	c0.21		c0.10	0.09	0.02
v/s Ratio Perm						0.02						0.12
v/c Ratio	0.41	0.12		0.62	0.22	0.23	0.47	0.48		0.38	0.13	0.19
Uniform Delay, d1	50.7	49.1		57.1	56.2	30.8	54.7	23.9		35.4	7.8	4.2
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		0.79	0.73	0.09
Incremental Delay, d2	0.8	0.2		16.7	0.8	0.2	3.3	1.1		0.2	0.1	0.1
Delay (s)	51.4	49.3		73.9	57.1	31.0	57.9	24.9		28.4	5.8	0.4
Level of Service	D	D		E	E	C	E	C		C	A	A
Approach Delay (s)		50.8			38.6			26.9			12.6	
Approach LOS		D			D			C			B	

Intersection Summary		
HCM 2000 Control Delay	24.5	HCM 2000 Level of Service C
HCM 2000 Volume to Capacity ratio	0.45	
Actuated Cycle Length (s)	120.0	Sum of lost time (s) 18.0
Intersection Capacity Utilization	53.8%	ICU Level of Service A
Analysis Period (min)	15	
c Critical Lane Group		

HCM Signalized Intersection Capacity Analysis
 1: Moreno Beach Dr. & SR-60 Westbound Ramps



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	248	26	398	896	72	281
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.85	1.00	0.85	1.00	1.00
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (prot)	1805	1615	1900	1615	1805	1900
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00
Satd. Flow (perm)	1805	1615	1900	1615	1805	1900
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	258	27	415	933	75	293
RTOR Reduction (vph)	0	16	0	46	0	0
Lane Group Flow (vph)	258	11	415	887	75	293
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	pm+ov	NA	pm+ov	Prot	NA
Protected Phases	8	1	2	8	1	6
Permitted Phases		8		2		
Actuated Green, G (s)	39.0	47.0	59.0	98.0	8.0	71.0
Effective Green, g (s)	39.0	47.0	59.0	98.0	8.0	71.0
Actuated g/C Ratio	0.32	0.39	0.49	0.82	0.07	0.59
Clearance Time (s)	5.0	4.0	5.0	5.0	4.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	586	632	934	1386	120	1124
v/s Ratio Prot	0.14	0.00	0.22	c0.21	c0.04	0.15
v/s Ratio Perm		0.01		0.34		
v/c Ratio	0.44	0.02	0.44	0.64	0.62	0.26
Uniform Delay, d1	31.9	22.4	19.8	4.2	54.5	11.8
Progression Factor	1.00	1.00	0.60	2.69	1.00	1.00
Incremental Delay, d2	0.5	0.0	1.0	0.6	9.7	0.6
Delay (s)	32.4	22.4	12.9	12.0	64.3	12.4
Level of Service	C	C	B	B	E	B
Approach Delay (s)	31.5		12.3			23.0
Approach LOS	C		B			C

Intersection Summary			
HCM 2000 Control Delay	17.0	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.67		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	68.8%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
 2: Moreno Beach Dr. & SR-60 Eastbound Ramps/Eucalyptus Ave.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕	↗	↖	↕	↗	↖	↕	↗	↖	↕	↗
Volume (vph)	97	307	633	85	112	554	117	633	47	110	383	25
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Lane Util. Factor		1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.91	
Frbp, ped/bikes		1.00	0.98	1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	
Flpb, ped/bikes		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Frt		1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.99	
Flt Protected		0.99	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1446	1570	1787	1881	1186	1770	3574	1583	1787	5092	
Flt Permitted		0.99	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1446	1570	1787	1881	1186	1770	3574	1583	1787	5092	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	102	323	666	89	118	583	123	666	49	116	403	26
RTOR Reduction (vph)	0	0	432	0	0	428	0	0	34	0	5	0
Lane Group Flow (vph)	0	425	234	89	118	155	123	666	15	116	424	0
Confl. Peds. (#/hr)			5			5			5			
Heavy Vehicles (%)	1%	39%	1%	1%	1%	32%	2%	1%	0%	1%	1%	0%
Turn Type	Split	NA	Perm	Split	NA	Perm	Prot	NA	Perm	Prot	NA	
Protected Phases	4	4		8	8		5	2		1	6	
Permitted Phases			4			8			2			
Actuated Green, G (s)		36.8	36.8	20.2	20.2	20.2	12.7	36.0	36.0	8.0	31.3	
Effective Green, g (s)		36.8	36.8	20.2	20.2	20.2	12.7	36.0	36.0	8.0	31.3	
Actuated g/C Ratio		0.31	0.31	0.17	0.17	0.17	0.11	0.30	0.30	0.07	0.26	
Clearance Time (s)		5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0	
Vehicle Extension (s)		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		443	481	300	316	199	187	1072	474	119	1328	
v/s Ratio Prot		c0.29		0.05	0.06		0.07	c0.19		c0.06	0.08	
v/s Ratio Perm			0.15			c0.13			0.01			
v/c Ratio		0.96	0.49	0.30	0.37	0.78	0.66	0.62	0.03	0.97	0.32	
Uniform Delay, d1		40.9	33.9	43.7	44.3	47.7	51.6	36.1	29.7	55.9	35.8	
Progression Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	0.92	
Incremental Delay, d2		32.1	0.8	0.6	0.7	17.2	8.1	2.7	0.1	73.1	0.6	
Delay (s)		72.9	34.7	44.2	45.0	64.9	59.6	38.8	29.8	126.6	33.5	
Level of Service		E	C	D	D	E	E	D	C	F	C	
Approach Delay (s)		49.6			59.6			41.4			53.3	
Approach LOS		D			E			D			D	

Intersection Summary		
HCM 2000 Control Delay	50.5	HCM 2000 Level of Service
HCM 2000 Volume to Capacity ratio	0.80	D
Actuated Cycle Length (s)	120.0	Sum of lost time (s)
Intersection Capacity Utilization	87.5%	19.0
Analysis Period (min)	15	ICU Level of Service
c Critical Lane Group		E

HCM Signalized Intersection Capacity Analysis
 1: Redlands Blvd. & Spruce St./SR-60 WB Ramps



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↕	↗	↗	↕	↕
Volume (vph)	1	4	1	193	0	29	6	700	660	284	504	27
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0			5.0		4.0	5.0	5.0	4.0	5.0	
Lane Util. Factor		1.00			1.00		1.00	0.95	1.00	1.00	0.95	
Frbp, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Frt		0.98			0.98		1.00	1.00	0.85	1.00	0.99	
Flt Protected		0.99			0.96		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1842			1784		1805	3610	1615	1805	3577	
Flt Permitted		0.99			0.96		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)		1842			1784		1805	3610	1615	1805	3577	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	1	4	1	203	0	31	6	737	695	299	531	28
RTOR Reduction (vph)	0	1	0	0	119	0	0	0	155	0	2	0
Lane Group Flow (vph)	0	5	0	0	115	0	6	737	540	299	557	0
Confl. Peds. (#/hr)						5						5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Split	NA		Split	NA		Prot	NA	pm+ov	Prot	NA	
Protected Phases	4	4		8	8		5	2	8	1	6	
Permitted Phases									2			
Actuated Green, G (s)		1.4			21.5		1.4	50.9	72.4	27.2	76.7	
Effective Green, g (s)		1.4			21.5		1.4	50.9	72.4	27.2	76.7	
Actuated g/C Ratio		0.01			0.18		0.01	0.42	0.60	0.23	0.64	
Clearance Time (s)		5.0			5.0		4.0	5.0	5.0	4.0	5.0	
Vehicle Extension (s)		3.0			3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		21			319		21	1531	1041	409	2286	
v/s Ratio Prot		c0.00			0.06		0.00	0.20	c0.09	c0.17	0.16	
v/s Ratio Perm									0.24			
v/c Ratio		0.24			0.36		0.29	0.48	0.52	0.73	0.24	
Uniform Delay, d1		58.8			43.2		58.8	25.0	13.7	43.0	9.3	
Progression Factor		1.00			1.00		1.01	0.82	0.69	1.00	1.00	
Incremental Delay, d2		5.8			0.7		6.4	0.9	0.4	6.6	0.3	
Delay (s)		64.6			43.9		66.1	21.5	9.8	49.6	9.5	
Level of Service		E			D		E	C	A	D	A	
Approach Delay (s)		64.6			43.9			16.1			23.5	
Approach LOS		E			D			B			C	

Intersection Summary		
HCM 2000 Control Delay	21.3	HCM 2000 Level of Service
HCM 2000 Volume to Capacity ratio	0.60	C
Actuated Cycle Length (s)	120.0	Sum of lost time (s)
Intersection Capacity Utilization	74.1%	19.0
Analysis Period (min)	15	ICU Level of Service
		D
c Critical Lane Group		

HCM Signalized Intersection Capacity Analysis
2: Redlands Blvd. & SR-60 EB Ramps



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (vph)	391	548	247	975	644	55
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0	4.0	5.0	5.0	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	
Frbp, ped/bikes	1.00	0.98	1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	
Frt	1.00	0.85	1.00	1.00	0.99	
Flt Protected	0.95	1.00	0.95	1.00	1.00	
Satd. Flow (prot)	1805	1585	1805	3610	3568	
Flt Permitted	0.95	1.00	0.95	1.00	1.00	
Satd. Flow (perm)	1805	1585	1805	3610	3568	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	407	571	257	1016	671	57
RTOR Reduction (vph)	0	421	0	0	4	0
Lane Group Flow (vph)	407	150	257	1016	724	0
Confl. Peds. (#/hr)		5				
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Turn Type	NA	Perm	Prot	NA	NA	
Protected Phases	4		5	2	6	
Permitted Phases		4				
Actuated Green, G (s)	31.5	31.5	22.5	78.5	52.0	
Effective Green, g (s)	31.5	31.5	22.5	78.5	52.0	
Actuated g/C Ratio	0.26	0.26	0.19	0.65	0.43	
Clearance Time (s)	5.0	5.0	4.0	5.0	5.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	473	416	338	2361	1546	
v/s Ratio Prot	c0.23		c0.14	0.28	c0.20	
v/s Ratio Perm		0.09				
v/c Ratio	0.86	0.36	0.76	0.43	0.47	
Uniform Delay, d1	42.2	36.0	46.2	10.0	24.2	
Progression Factor	1.00	1.00	0.99	0.70	0.78	
Incremental Delay, d2	14.7	0.5	8.2	0.5	1.0	
Delay (s)	56.9	36.6	53.8	7.5	19.9	
Level of Service	E	D	D	A	B	
Approach Delay (s)	45.0			16.8	19.9	
Approach LOS	D			B	B	

Intersection Summary

HCM 2000 Control Delay	26.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.65		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.0
Intersection Capacity Utilization	66.8%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

HCM Signalized Intersection Capacity Analysis
3: Redlands Blvd. & Eucalyptus Ave./Fir Ave.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖↗	↕		↖	↕↕	↗	↖	↕↗		↖↗	↕↕	↗
Volume (vph)	369	50	78	102	56	479	57	374	78	332	625	236
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	5.0		4.0	5.0	4.0	4.0	5.0		4.0	5.0	4.0
Lane Util. Factor	0.97	0.95		1.00	0.95	1.00	1.00	0.95		0.97	0.95	1.00
Frbp, ped/bikes	1.00	0.99		1.00	1.00	1.00	1.00	1.00		1.00	1.00	0.98
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Frt	1.00	0.91		1.00	1.00	0.85	1.00	0.97		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3502	3241		1805	3610	1612	1805	3506		3502	3610	1590
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3502	3241		1805	3610	1612	1805	3506		3502	3610	1590
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	388	53	82	107	59	504	60	394	82	349	658	248
RTOR Reduction (vph)	0	75	0	0	0	46	0	13	0	0	0	65
Lane Group Flow (vph)	388	60	0	107	59	458	60	463	0	349	658	183
Confl. Peds. (#/hr)			5			5			5			5
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Prot	NA		Prot	NA	pm+ov	Prot	NA		Prot	NA	pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Actuated Green, G (s)	19.9	10.4		15.8	6.3	51.3	7.0	30.8		45.0	68.8	88.7
Effective Green, g (s)	19.9	10.4		15.8	6.3	51.3	7.0	30.8		45.0	68.8	88.7
Actuated g/C Ratio	0.17	0.09		0.13	0.05	0.43	0.06	0.26		0.38	0.57	0.74
Clearance Time (s)	4.0	5.0		4.0	5.0	4.0	4.0	5.0		4.0	5.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	580	280		237	189	689	105	899		1313	2069	1175
v/s Ratio Prot	c0.11	0.02		c0.06	0.02	c0.25	0.03	c0.13		0.10	0.18	0.03
v/s Ratio Perm						0.03						0.09
v/c Ratio	0.67	0.21		0.45	0.31	0.67	0.57	0.51		0.27	0.32	0.16
Uniform Delay, d1	47.0	51.0		48.1	54.8	27.5	55.0	38.2		26.0	13.4	4.6
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.03	0.54	1.43
Incremental Delay, d2	2.9	0.4		1.4	0.9	2.4	7.3	2.1		0.1	0.3	0.1
Delay (s)	49.9	51.4		49.5	55.7	29.9	62.4	40.3		27.0	7.6	6.6
Level of Service	D	D		D	E	C	E	D		C	A	A
Approach Delay (s)		50.3			35.3			42.8			12.8	
Approach LOS		D			D			D			B	

Intersection Summary		
HCM 2000 Control Delay	29.8	HCM 2000 Level of Service C
HCM 2000 Volume to Capacity ratio	0.62	
Actuated Cycle Length (s)	120.0	Sum of lost time (s) 18.0
Intersection Capacity Utilization	64.5%	ICU Level of Service C
Analysis Period (min)	15	
c Critical Lane Group		

ATTACHMENT "G"

Existing plus Ambient plus Project plus Cumulative Development (2014) Conditions
Traffic Signal Warrant Analysis Worksheets

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

<u>DIST</u>	<u>CO</u>	<u>RTE</u>	<u>PM</u>	TRAFFIC CONDITIONS	EAPC (2014)
Jurisdiction: <u>City of Moreno Valley</u>				CALC <u>DL</u>	DATE <u>07/11/13</u>
Major Street: <u>Eucalyptus Avenue</u>				CHK <u>DL</u>	DATE <u>07/11/13</u>
Minor Street: <u>Quincy Street</u>				Critical Approach Speed (Major) <u>45</u> mph	
				Critical Approach Speed (Minor) <u>25</u> mph	
Major Street Approach Lanes = <u>1</u>	lane	Minor Street Approach Lanes = <u>1</u>	lane		
Major Street Future ADT = <u>5,900</u>	vpd	Minor Street Future ADT = <u>450</u>	vpd		
Speed limit or critical speed on major street traffic > 64 km/h (40 mph);				<input checked="" type="checkbox"/>	
				or	RURAL (R)
In built up area of isolated community of < 10,000 population				<input type="checkbox"/>	

(Based on Estimated Average Daily Traffic - See Note)

<u>URBAN</u>	<u>RURAL</u>	Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
<u>Satisfied</u>	<u>Not Satisfied</u>				
	XX				
Number of lanes for moving traffic on each approach					
<u>Major Street</u>	<u>Minor Street</u>	<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
1 5,900	1 450	8,000	5,600 *	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
<u>Satisfied</u>	<u>Not Satisfied</u>				
	XX				
Number of lanes for moving traffic on each approach					
<u>Major Street</u>	<u>Minor Street</u>	<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
1 5,900	1 450	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B		2 CONDITIONS 80%		2 CONDITIONS 80%	
<u>Satisfied</u>	<u>Not Satisfied</u>				
	XX				
No one condition satisfied, but following conditions fulfilled 80% of more					
	A				
	27%				
	B				
	53%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

	<u> </u>	<u> </u>	<u> </u>		TRAFFIC CONDITIONS	EAPC (2014)	
	DIST	CO	RTE	PM	CALC <u>DL</u>	DATE <u>07/11/13</u>	
Jurisdiction:	<u>City of Moreno Valley</u>				CHK <u>DL</u>	DATE <u>07/11/13</u>	
Major Street:	<u>Eucalyptus Avenue</u>				Critical Approach Speed (Major)	<u>45</u> mph	
Minor Street:	<u>Driveway 1</u>				Critical Approach Speed (Minor)	<u>25</u> mph	
Major Street Approach Lanes =	<u>1</u>			lane	Minor Street Approach Lanes:	<u>1</u> lane	
Major Street Future ADT =	<u>6,400</u>			vpd	Minor Street Future ADT =	<u>450</u> vpd	
Speed limit or critical speed on major street traffic > 64 km/h (40 mph);						<input checked="" type="checkbox"/>	RURAL (R)
In built up area of isolated community of < 10,000 population						<input type="checkbox"/>	

(Based on Estimated Average Daily Traffic - See Note)

<u>URBAN</u>		<u>RURAL</u>		Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume		XX					
<u>Satisfied</u>		<u>Not Satisfied</u>					
		XX		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Number of lanes for moving traffic on each approach		Number of lanes for moving traffic on each approach		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
<u>Major Street</u>		<u>Minor Street</u>					
1	6,400	1	450	8,000	5,600 *	2,400	1,680
2 +		1		9,600	6,720	2,400	1,680
2 +		2 +		9,600	6,720	3,200	2,240
1		2 +		8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		XX		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
<u>Satisfied</u>		<u>Not Satisfied</u>		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
Number of lanes for moving traffic on each approach		Number of lanes for moving traffic on each approach					
<u>Major Street</u>		<u>Minor Street</u>					
1	6,400	1	450	12,000	8,400	1,200	850
2 +		1		14,400	10,080	1,200	850
2 +		2 +		14,400	10,080	1,600	1,120
1		2 +		12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B		XX		2 CONDITIONS 80%		2 CONDITIONS 80%	
<u>Satisfied</u>		<u>Not Satisfied</u>					
No one condition satisfied, but following conditions fulfilled 80% of more		A	B				
		27%	53%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

	<u> </u>	<u> </u>	<u> </u>		TRAFFIC CONDITIONS	EAPC (2014)	
	DIST	CO	RTE	PM	CALC <u>DL</u>	DATE <u>09/13/13</u>	
Jurisdiction:	<u>City of Moreno Valley</u>				CHK <u>DL</u>	DATE <u>09/13/13</u>	
Major Street:	<u>Eucalyptus Avenue</u>				Critical Approach Speed (Major)	<u>45</u> mph	
Minor Street:	<u>Street "A"</u>				Critical Approach Speed (Minor)	<u>25</u> mph	
Major Street Approach Lanes =	<u>1</u>			lane	Minor Street Approach Lanes:	<u>1</u> lane	
Major Street Future ADT =	<u>8,850</u>			vpd	Minor Street Future ADT =	<u>2,000</u> vpd	
Speed limit or critical speed on major street traffic > 64 km/h (40 mph);	<input checked="" type="checkbox"/>					or	RURAL (R)
In built up area of isolated community of < 10,000 population	<input type="checkbox"/>						

(Based on Estimated Average Daily Traffic - See Note)

<u>URBAN</u>		<u>RURAL</u>		Minimum Requirements			
CONDITION A - Minimum Vehicular Volume		XX		EADT			
<u>Satisfied</u>		<u>Not Satisfied</u>		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
XX		XX		<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
Number of lanes for moving traffic on each approach				<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
<u>Major Street</u>	<u>Minor Street</u>	<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
1 8,850	1 2,000	8,000	5,600 *	2,400	1,680 *	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
<u>Satisfied</u>		<u>Not Satisfied</u>		<u>Urban</u>		<u>Rural</u>	
XX		XX		<u>Urban</u>		<u>Rural</u>	
Number of lanes for moving traffic on each approach				<u>Urban</u>		<u>Rural</u>	
<u>Major Street</u>	<u>Minor Street</u>	<u>Urban</u>		<u>Rural</u>		<u>Urban</u>	
1 8,850	1 2,000	12,000		8,400 *		1,200	
2 +	1	14,400		10,080		1,200	
2 +	2 +	14,400		10,080		1,600	
1	2 +	12,000		8,400		1,600	
Combination of CONDITIONS A + B				2 CONDITIONS		2 CONDITIONS	
<u>Satisfied</u>		<u>Not Satisfied</u>		80%		80%	
XX		XX		80%		80%	
No one condition satisfied, but following conditions fulfilled 80% of more				<u>A</u>		<u>B</u>	
				100%		100%	

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

<u>DIST</u>	<u>CO</u>	<u>RTE</u>	<u>PM</u>	TRAFFIC CONDITIONS	EAPC (2014)
Jurisdiction: <u>City of Moreno Valley</u>				CALC <u>DL</u>	DATE <u>07/11/13</u>
Major Street: <u>Redlands Boulevard</u>				CHK <u>DL</u>	DATE <u>07/11/13</u>
Minor Street: <u>Eucalyptus Avenue/Encilia Avenue</u>				Critical Approach Speed (Major) <u>55</u> mph	
				Critical Approach Speed (Minor) <u>25</u> mph	
Major Street Approach Lanes = <u>1</u>	lane	Minor Street Approach Lanes = <u>1</u>	lane		
Major Street Future ADT = <u>15,250</u>	vpd	Minor Street Future ADT = <u>550</u>	vpd		
Speed limit or critical speed on major street traffic > 64 km/h (40 mph);	<input checked="" type="checkbox"/>	or	<input type="checkbox"/>		RURAL (R)
In built up area of isolated community of < 10,000 population	<input type="checkbox"/>				

(Based on Estimated Average Daily Traffic - See Note)

<u>URBAN</u>	<u>RURAL</u>	Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume	XX	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
<u>Satisfied</u>	<u>Not Satisfied</u>				
	XX	<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
Number of lanes for moving traffic on each approach					
<u>Major Street</u>	<u>Minor Street</u>				
1 15,250	1 550	8,000	5,600 *	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
<u>Satisfied</u>	<u>Not Satisfied</u>				
	XX	<u>Urban</u>	<u>Rural</u>	<u>Urban</u>	<u>Rural</u>
Number of lanes for moving traffic on each approach					
<u>Major Street</u>	<u>Minor Street</u>				
1 15,250	1 550	12,000	8,400 *	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B		2 CONDITIONS 80%		2 CONDITIONS 80%	
<u>Satisfied</u>	<u>Not Satisfied</u>				
	XX				
No one condition satisfied, but following conditions fulfilled 80% of more					
	A				
	33%				
	B				
	65%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

September 16, 2013

Mr. Ross Geller
Applied Planning, Inc.
5817 Pine Avenue, Suite A
Chino Hills, CA 91709

**Subject: Westridge Commerce Center – Air Quality, Greenhouse Gas, and Health Risk
Impact Assessment**

Dear Mr. Geller:

Urban Crossroads, Inc. is pleased to submit this Air Quality, Greenhouse Gas, and Health impact assessment for the Westridge Commerce Center (referred to as “Project”), which is located west of Redlands Boulevard and South of State Route 60 in the City of Moreno Valley. Specifically, the Project is anticipated to serve as a distribution center for Aldi, a worldwide grocery retailer that is anticipated to support approximately 150 future stores in the southern California region. In addition to the slight reduction in overall building square footage, Aldi operations will require a portion of the warehouse area for cold storage, and will require an increase in the amount of office use from the entitled 14,000 square feet to 50,000 square feet. The Project is anticipated to have an opening year of 2014. The current site plan is shown on Exhibit 1.

The purpose of this air quality, greenhouse gas, and health risk impact assessment is to determine if proposed changes to the project’s building design to support the future tenant operations would result in substantial changes to the air quality, greenhouse gas, or health risk assessment findings previously reported for the proposed Project in the *2010 Westridge Commerce Center EIR*.

PROJECT AIR QUALITY IMPACT

Construction-Source Emissions

Under the proposed scope of the Project, construction-source emissions would be generally consistent with the impacts identified in the *2010 Westridge Commerce Center EIR* for Project construction-source emissions. No new impacts beyond those identified in the *2010 Westridge Commerce Center EIR* would occur for construction-source emissions.

Operation-Source Emissions

Operational activities associated with the Project will result in emissions of ROG, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. Operational emissions would be expected from the following primary sources:

- Vehicles

- Combustion Emissions Associated with Natural Gas and Electricity
- Fugitive dust related to vehicular travel
- Consumer Products
- Architectural coatings

VEHICLES

Project operational (vehicular) impacts are dependent on both overall daily vehicle trip generation and the effect of the Project on peak hour traffic volumes and traffic operations. It should be noted that the Project's traffic impact assessment presents the total Project vehicle trips in terms of Passenger Car Equivalents (PCEs) in an effort to recognize and acknowledge the effects of heavy vehicles at the study area intersections. Notwithstanding, for purposes of this analysis, the PCE trips were not used. Rather, to more accurately estimate and model vehicular-source emissions, the actual number of vehicles, by vehicle classification (e.g., passenger cars (including light trucks) and heavy trucks) were used in the analysis. The vehicle fleet mix, in terms of actual vehicles, as derived from the traffic assessment for the Project is comprised of approximately 40% passenger cars (400 passenger cars) and approximately 60% total trucks (600 trucks). The total traffic generation in vehicles is 1,000 per day. The Project was input as a dual category or dual type of land-use (Refrigerated Warehouse – No Rail / Unrefrigerated Warehouse – No Rail) in the CalEEMod™ emissions inventory model. The resulting estimated vehicle-source emissions in comparison to the findings in the *2010 Westridge Commerce Center EIR* are summarized at Tables 1 and 2.

TRIP LENGTH

A technical deficiency inherent in calculating the projected vehicle emissions associated with any project is related to the estimation of trip length and vehicle miles traveled (VMT). VMT for a given project is calculated by the total number of vehicle trips to/from the Project x average trip length. This method of estimating VMT for use in calculating vehicle emissions likely results in the over-estimation and double-counting of emissions because, for a distribution warehouse center such as the Project, the land use is likely to attract (divert) existing vehicle trips that are already on the circulation system as opposed to generating new trips. In this regard, the Project would, to a large extent, redistribute existing mobile-source emissions rather than generate additional emissions within the Basin. As such, the estimation of the Westridge Commerce Center Project's vehicular-source emissions is likely overstated in that no credit for, or reduction in, emissions is assumed based on diversion of existing trips.

Since proposed store locations are unknown, trip lengths consistent with the *2010 Westridge Commerce Center EIR* are utilized as a conservative measure. For passenger car trips, a one-way trip length of 17 miles was assumed as contained in the SCAQMD CEQA Handbook (SCAQMD 1993) for Riverside County for the year 2010 (this trip length was used in lieu of the CalEEMod™ model defaults because it is more conservative). For heavy duty trucks, an average trip length was derived from distances between the Project site and the far edges of the South Coast Air Basin (SCAB), consistent with

professional industry practice. While it is acknowledged that deliveries to Aldi stores located outside SCAB boundaries may be required, the calculation of these distances would be speculative. The following trip distances were utilized in this analysis:

- Project site to the Port of Los Angeles/Long Beach: 78 miles;
- Project site to Banning Pass: 27 miles;
- Project site to San Diego County line: 46 miles;
- Project site to Cajon Pass: 42 miles;
- Project site to downtown Los Angeles: 64 miles.

Assuming that 50 percent of all delivery trips will travel to and from the Project and the Port of Los Angeles/Long Beach, and the remainder as distribution trips to all other locations, the average truck trip length is calculated as 61 miles. An overall weighted-average trip length for the Project was calculated using the percentage of trips associated with passenger cars (including light duty trucks) versus heavy trucks, the passenger car trip length of 17 miles and truck trip length of 61 miles was utilized. The resulting weighted average trip length of 43.76 miles was entered into the CalEEMod™ model calculations.

For Trucks: 61 one-way miles x 60% trucks = 39.96 one-way VMT

For Passenger Cars: 17 one-way miles x 40% passenger cars = 6.8 one-way VMT

Weighted average for input into CalEEMod™ is therefore, $39.96 + 6.8 = 43.76$ one-way miles. The estimated emissions resulting from vehicle operations are summarized in Tables 1 and 2.

FUGITIVE DUST RELATED TO VEHICULAR TRAVEL

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust. The emissions estimates for travel on paved roads were calculated using CalEEMod. The estimated PM₁₀ and PM_{2.5} emissions from vehicles for fugitive dust are summarized in Attachment A and B (Summer and Winter conditions).

HEATING, VENTILATION AND AIR CONDITION (HVAC) SYSTEMS EMISSIONS

Combustion emissions would be generated by the use of natural gas to power heating, HVAC systems in the development. The emissions associated with natural gas use were calculated based on assumptions from CalEEMod. The estimated combustion emissions are provided in Attachment A and B (Summer and Winter conditions).

CONSUMER PRODUCTS

Consumer products are various solvents used in non-industrial applications which emit VOCs during their product use. These typically include cleaning supplies, kitchen aerosols, cosmetics and toiletries. SCAQMD has developed an emission factor based on the total of all the building square footage for both residential and non-residential buildings. The emissions associated with consumer products were calculated using CalEEMod. The estimated consumer product emissions are provided in Attachment A and B (Summer and Winter conditions).

ARCHITECTURAL COATINGS

Over a period of time the buildings that are part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using CalEEMod. The estimated architectural coating emissions are provided in Attachment A and B (Summer and Winter conditions).

OPERATIONS EMISSIONS SUMMARY

In order to provide an “apples-to-apples” comparison for the previously-approved *2010 Westridge Commerce Center EIR* and the proposed *Aldi Distribution Center Warehouse*, the assessment includes a comparison of total operational emissions for both scenarios based on the URBEMIS 2007 model, which is the model that was in place at the time the *2010 Westridge Commerce Center EIR* was adopted these emission totals and comparisons are shown on Tables 1 and 2. Similarly, both the *2010 Westridge Commerce Center EIR project* and the proposed *Aldi Distribution Center Warehouse* were modeled using the 2013 CalEEMod emissions inventory model, which is the latest available and currently recommended version for use and are shown on Tables 3 and 4.

This approach resolves discrepancies that would arise in trying to compare emissions estimates for the *2010 Westridge Commerce Center EIR* which were developed with the URBEMIS model which is no longer employed and the emissions estimated for the *Aldi Distribution Center Warehouse* developed using the current CalEEMod 2013.

The Project-related summer and winter operations emissions summary, along with a comparison of the 2010 Westridge Commerce Center EIR is presented in Tables 1 through 4. Additionally, detailed emissions calculations are provided in Appendix “A”. The proposed changes to the Project would result in a decrease in emissions of VOCs, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions in comparison to the *2010 Westridge Commerce Center EIR*. As indicated at Tables 1 through 4, the Project will not result in any new impacts substantially greater than those previously identified in the *2010 Westridge Commerce Center EIR*.

Table 1
COMPARISON OF PEAK OPERATIONAL EMISSIONS (URBEMIS Model)
2010 Westridge Commerce Center EIR
vs. Aldi Distribution Center Warehouse
(Pounds per Day, maximum summer emissions)

2010 Westridge Commerce Center EIR						
Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emissions ^a	5.66	0.66	2.09	--	0.01	0.01
Mobile Emissions ^b	62.14	738.86	449.58	1.46	139.21	45.70
Maximum Daily Emissions	67.80	739.52	451.67	1.46	139.22	45.71
Aldi Distribution Center Warehouse						
Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emissions ^a	4.86	0.83	2.23	0.00	0.01	0.01
Mobile Emissions ^b	49.07	510.92	282.02	1.19	95.49	31.56
Maximum Daily Emissions	53.93	511.75	284.25	1.19	95.50	31.57
Variance	-13.87	-227.77	-167.42	-0.27	-43.72	-14.14

^a Includes emissions of natural gas consumption, emissions of landscape maintenance equipment and architectural coatings emissions

^b Includes emissions of vehicle emissions and fugitive dust related to vehicular travel

Table 2
COMPARISON OF PEAK OPERATIONAL EMISSIONS (URBEMIS Model)
2010 Westridge Commerce Center EIR
vs. Aldi Distribution Center Warehouse
(Pounds per Day, maximum winter emissions)

2010 Westridge Commerce Center EIR						
Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emissions ^a	5.54	0.64	0.54	--	--	--
Mobile Emissions ^b	64.24	818.29	426.44	1.39	139.21	45.70
Maximum Daily Emissions	69.78	818.93	426.98	1.39	139.21	45.70
Aldi Distribution Center Warehouse						
Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emissions ^a	4.74	0.81	0.68	0.00	0.00	0.00
Mobile Emissions ^b	49.60	565.35	270.65	1.16	95.49	31.56
Maximum Daily Emissions	54.34	566.16	271.33	1.16	95.49	31.56
Variance	-15.44	-252.77	-155.65	-0.23	-43.72	-14.14

Note: Please refer to Appendix B for the URBEMIS output files and additional supporting information for the estimated emissions.

^a Includes emissions of natural gas consumption, emissions of landscape maintenance equipment and architectural coatings emissions

^b Includes emissions of vehicle emissions and fugitive dust related to vehicular travel

Table 3
COMPARISON OF PEAK OPERATIONAL EMISSIONS (CalEEMod 2013)
2010 Westridge Commerce Center EIR
vs. Aldi Distribution Center Warehouse
(Pounds per Day, maximum summer emissions)

2010 Westridge Commerce Center EIR						
Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emissions ^a	24.60	0.54	0.55	3.35e-3	0.04	0.04
Mobile Emissions ^b	100.19	456.19	329.37	1.20	59.37	22.45
Maximum Daily Emissions	124.78	456.73	329.92	1.20	59.41	22.50
Aldi Distribution Center Warehouse						
Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emissions ^a	25.75	3.99	3.49	0.02	0.30	0.30
Mobile Emissions ^b	77.36	421.45	262.43	1.02	42.15	16.88
Maximum Daily Emissions	103.11	425.44	265.93	1.04	42.45	17.18
Variance	-21.67	-31.29	-63.99	-0.16	-16.96	-5.32

^a Includes emissions of natural gas consumption, emissions of landscape maintenance equipment and architectural coatings emissions

^b Includes emissions of vehicle emissions and fugitive dust related to vehicular travel

Table 4
COMPARISON OF PEAK OPERATIONAL EMISSIONS (CalEEMod 2013)
2010 Westridge Commerce Center EIR
vs. Aldi Distribution Center Warehouse
(Pounds per Day, maximum winter emissions)

2010 Westridge Commerce Center EIR						
Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emissions ^a	24.60	0.54	0.55	3.25e-3	0.04	0.04
Mobile Emissions ^b	105.57	475.58	321.93	1.18	59.39	22.47
Maximum Daily Emissions	130.16	476.12	322.49	1.18	59.43	22.51
Aldi Distribution Center Warehouse						
Operational Activities	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emissions ^a	25.75	3.99	3.49	0.02	0.30	0.30
Mobile Emissions ^b	81.00	439.31	262.22	1.00	42.16	16.89
Maximum Daily Emissions	106.75	443.30	265.71	1.03	42.47	17.20
Variance	-23.41	-32.82	-56.78	-0.15	-16.96	-5.31

Note: Please refer to Appendix B for the CalEEMod™ output files and additional supporting information for the estimated emissions.

^a Includes emissions of natural gas consumption, emissions of landscape maintenance equipment and architectural coatings emissions

^b Includes emissions of vehicle emissions and fugitive dust related to vehicular travel

PROJECT GREENHOUSE GAS IMPACT

PROJECT RELATED GREENHOUSE GAS EMISSIONS

CEQA Guidelines 15064.4 (a) states in pertinent part:

A lead agency shall have the discretion to determine, in the context of a particular project whether to:
(1) Use a model or methodology to quantify greenhouse gas emissions from a project, and which model or methodology to use. . . .

On July 26, 2013, the SCAQMD released the latest version of the California Emissions Estimator Model (CalEEMod) Emissions Inventory Model™. The purpose of this model is to more accurately calculate air quality and greenhouse gas (GHG) emissions from direct and indirect sources and quantify applicable air quality and GHG reductions achieved from mitigation measures. The July 2013 CalEEMod™ was employed to quantify GHG emissions for this Project. The CalEEMod™ model includes GHG emissions from the following source categories: construction, area, energy, mobile, waste, water.

LIFE-CYCLE ANALYSIS

A full life-cycle analysis (LCA) is not included in this analysis due to the lack of consensus guidance on CA methodology at this time.¹ Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in the project development and infrastructure) depends on emission factors or econometric factors that are not well established for all processes. At this time a LCA would be extremely speculative and thus has not been prepared.

CONSTRUCTION EMISSIONS

GHG emissions resulting from Project construction activity are assumed to be generally consistent with construction-related GHG emissions previously quantified in the *2010 Westridge Commerce Center EIR*. As such, for analysis purposes the previously quantified GHG emissions were utilized in this assessment.

OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of CO₂, CH₄, and N₂O from the following primary sources:

¹ California Natural Resources Agency, *Final Statement of Reasons for Regulatory Action, Amendments to the State CEQA Guidelines Addressing Analysis and Mitigation of Greenhouse Gas Emissions Pursuant to SB97*, December 2009.

- Building Energy Use (Combustion Emissions Associated with Natural Gas and Electricity)
- Water Supply, Treatment and Distribution
- Solid Waste
- Vehicles

BUILDING ENERGY USE

GHGs are emitted from buildings as a result of activities for which electricity and natural gas are typically used as energy sources. Combustion of any type of fuel emits CO₂ and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building. GHGs are also emitted during the off-site generation of electricity from fossil fuels; these emissions are considered to be indirect emissions. Unless otherwise noted, CalEEMod™ default parameters were used.

WATER SUPPLY, TREATMENT AND DISTRIBUTION

Indirect GHG emissions result from the off-site production of electricity used to convey, treat and distribute water and wastewater. The amount of electricity required to convey, treat and distribute water depends on the volume of water as well as the sources of the water.

Water usage based on 700 gallons per day x acres of building space and landscaped area for indoor/outdoor water usage. The Project is estimated to result in a demand for approximately 16,678 gallons of water per day (~19 acre-feet per year) which includes 12,866 gallons per day of domestic (indoor) water use and 3,812 gallons per day of irrigation (outdoor) water use.

SOLID WASTE

The Project will result in the generation and disposal of solid waste. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the proposed Project were calculated by the CalEEMod model using model defaults.

VEHICLES

Project-related GHG emissions resulting from vehicles accessing the site have been included in this assessment. A detailed discussion on how vehicle emissions were calculated can be found under the "Air Quality" section of this assessment.

EMISSIONS SUMMARY

As presented in Table 3, the Project would generate GHG emissions from a variety of sources which would all emit CO₂, CH₄ and N₂O. GHGs could also be indirectly generated by incremental electricity

consumption and waste generation from the Project. The total amount of Project-related GHG emissions would total 22,168.56 MTCO₂e as shown on Table 3. The total amount of Project-related GHG emissions is 7,834.83 MTCO₂e less than the 2010 Westridge Commerce Center EIR. Thus, the proposed Project will not result in a greater impact than previously identified and disclosed in the 2010 Westridge Commerce Center EIR. The estimated project GHG emissions outputs are provided in Attachment C.

TABLE 5
GHG EMISSIONS SUMMARY (metric tons CO₂e / year)
2010 Westridge Commerce Center EIR
vs. Aldi Distribution Center Warehouse

2010 Westridge Commerce Center EIR				
Emission Source	CO₂	CH₄	N₂O	CO₂e
Annual construction related emissions amortized over 30 years	174.16	0.0104	0.522	338.32
Natural Gas	141.10	0.02	0.022	148.53
Landscaping	0.51	--	--	0.51
Mobile Sources	27,724.82	0.35	0.41	27,858.08
Electricity Energy	732.09	0.008	0.03	741.71
Solid Waste Generation	--	22.60	--	474.67
Water Usage	39.63	0.002	0.0005	39.81
Refrigerant Leakage	--	--	--	401.75
Subtotal Transportation Sources				27,858.08
Subtotal Non-Transportation Sources				2,145.31
Total CO₂e				30,003.39
Aldi Distribution Center Warehouse				
Emission Source	CO₂	CH₄	N₂O	CO₂e
Annual construction related emissions amortized over 30 years	174.16	0.0104	0.522	338.32
Natural Gas	792.32	0.02	0.02	797.14
Landscaping	--	--	--	--
Mobile Sources	16,783.54	0.21	--	16,787.99
Electricity Energy	3,360.50	0.17	0.03	3,644.71
Solid Waste Generation	152.73	9.03	--	229.47
Water Usage	23.41	0.15	3.81e-3	27.83
Refrigerant Leakage	--	--	--	343.10
Subtotal Transportation Sources				16,787.99
Subtotal Non-Transportation Sources				5,380.57
Total CO₂e				22,168.56
Variance Total CO₂e				-7,834.83

PROJECT HEALTH RISK ASSESSMENT IMPACT

Vehicle DPM emissions were estimated using emission factors for particulate matter less than 10µm in diameter (PM₁₀) generated with the 2011 version of the Emission FACtor model (EMFAC) developed by the ARB. EMFAC 2011 is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources. The most recent version of this model, EMFAC 2011, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

The most important improvement in EMFAC 2011 is the integration of the new data and methods to estimate emissions from diesel trucks and buses. EMFAC 2011 uses the same diesel truck and bus vehicle populations, miles traveled and other emissions-related factors developed for the Truck and Bus Rule approved by the Air Resources Board in 2010. The model includes the emissions benefits of the truck and bus rule and the previously adopted rules for other on-road diesel equipment. Finally, the impacts of the recession on emissions that were quantified as part of the truck and bus rulemaking are included.

Several distinct emission processes are included in EMFAC 2011. Emission factors calculated using EMFAC 2011 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM₁₀ emission factors were generated by running EMFAC 2011 in EMFAC Mode for vehicles in the SCAQMD district. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

The average PM₁₀ emission factors for each type of vehicle were calculated based on the annual average emission factors from different model years for the residential exposure period: 70-year exposure: 2014 through 2083 (Residential Exposure Scenario).

Calculated emission factors for each of these scenarios are shown in Table 4. The emission factors for model years beyond 2035 were assumed to be the same as emission factors in 2035 due to the fact that EMFAC 2011 only contains emission factors for the model year from 1990 through 2035. This is a conservative measure as it assumes no fleet turnover or cleaner technology with lower emissions could be incorporated after 2035.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM₁₀ emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources:

$$\text{Emissions}_{\text{speedA}} \text{ (g/s)} = \text{EF}_{\text{RunExhaust}} \text{ (g/VMT)} * \text{Distance (VMT/trip)} * \text{Number of Trips (trips/day)} / \text{seconds per day}$$

Where:

Emissions_{speedA} (g/s): Vehicle emissions at a given speed A;

EF_{RunExhaust} (g/VMT): EMFAC running exhaust PM₁₀ emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM₁₀ emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM₁₀ emission factor (g/idle-hr) from EMFAC and the total truck trip over the total idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes:

$$\text{Emissions}_{\text{idle}} \text{ (g/s)} = \text{EF}_{\text{idle}} \text{ (g/hr)} * \text{Number of Trips (trips/day)} * \text{Idling Time (min/trip)} * 60 \text{ minutes per hour} / \text{seconds per day}$$

Where:

Emissions_{idle} (g/s): Vehicle emissions during idling;

EF_{idle}(g/s): EMFAC idle exhaust PM₁₀ emission factor.

TABLE 6
WEIGHTED AVERAGE DPM EMISSION FACTORS

2014-2083 – 70 Year Residential Exposure Scenario	
Speed	Weighted Average
0 (idling)	0.22997 (g/idle-hr)
5	0.07871 (g/s)
25	0.04805 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report, but are included in Attachment “D”. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway. The modeled emission sources are illustrated on Exhibit 1. The modeled truck travel routes included in the HRA are based on the truck trip distributions (inbound and outbound) available from the Project’s Traffic Impact Analysis (TIA). Exhibit 2 illustrates the point of maximum impact at the nearest residential receptor.

On-site truck idling was estimated to occur as trucks enter and travel through the facility. Although the Project is required to comply with CARB’s idling limit of 5 minutes², staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, phone call, with James Koizumi, May 6, 2009), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis estimated truck idling at 15 minutes, consistent with SCAQMD’s recommendation.

Additionally, the Project would generate diesel emissions related to trucks and trailers equipped with transportation refrigeration units (TRUs). The TRU operating emission factors were determined from CARB’s *2011 Amendments for Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities where TRUs Operate* (August 2011).

TRU emissions are based on emission factors for 2014 (0.26 grams per hp-hour) and 2020 (0.02 grams per hp-hour), the TRU horsepower is assumed to be 35 horsepower with a 46 percent load factor consistent with CARB guidance. For analysis purposes it is estimated that every TRU that accesses the

² Requirements to Reduce Idling Emissions from New and In-Use Trucks: <http://www.arb.ca.gov/regact/hdvidle/hdvidle.htm>

site will idle for 15 minutes. Based on discussion with the applicant, it is expected that 200 truck trips per day (one-way) will require TRUs and have the potential to idle on-site.

Table 5 and 6 provide a comparison of the Project-related DPM impacts to the DPM impacts previously identified in the *2010 Westridge Commerce Center EIR*. As shown, the Project would result in fewer DPM emissions and thus a lesser risk to adjacent sensitive land uses. The Project would still be required to comply with Mitigation Measure 4.3.10 which limits on-site idling to three minutes. Furthermore, it should be noted that the proposed Project will result in DPM impacts that will not exceed the SCAQMD's threshold of 10 in one million both before and after implementation of the recommended mitigation measures.

TABLE 7
SUMMARY OF CANCER RISKS (WITHOUT MITIGATION)
(RISK PER MILLION)

Location	2010 Westridge Commerce Center EIR	Proposed Project	Variance
Maximum Exposed Sensitive Receptor	10.1	6.1	-4.0
Maximum Exposed Worker Receptor	3.1	1.2	-1.9

TABLE 8
SUMMARY OF CANCER RISKS (WITH MITIGATION)
(RISK PER MILLION)

Location	2010 Westridge Commerce Center EIR	Proposed Project	Variance
Maximum Exposed Sensitive Receptor	6.9	5.6	-1.3
Maximum Exposed Worker Receptor	2.0	1.1	-0.9

Mr. Ross Geller
Applied Planning, Inc.
September 16, 2013
Page 14

If you have any questions regarding this analysis, please give me a call at (949) 660-1994 ext. 217.

Respectfully submitted,

URBAN CROSSROADS, INC.



Haseeb Qureshi, MES
Senior Air Quality Specialist

Stephen Abille
Assistant Analyst

ATTACHMENT "A"

Summer Operational Impacts

URBEMIS 2007

Summer Operational Impacts

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

Project Name: Westridge Commerce Center - Aldi

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TC (lbs/day, unmitigated)	4.86	0.83	2.23	0.00	0.01	0.01	969.25

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	49.07	510.92	282.02	1.19	95.49	31.56	125,965.93

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	53.93	511.75	284.25	1.19	95.50	31.57	126,935.18

9/16/2013 11:31:26 AM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.06	0.81	0.68	0.00	0.00	0.00	966.44
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	4.68						
TOTALS (lbs/day, unmitigated)	4.86	0.83	2.23	0.00	0.01	0.01	969.25

-809- Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Warehouse	49.07	510.92	282.02	1.19	95.49	31.56	125,965.93
TOTALS (lbs/day, unmitigated)	49.07	510.92	282.02	1.19	95.49	31.56	125,965.93

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

An : Year: 2014 Temperature (F): 80 Season: Summer

En / version : Emfac2007 V2.3 Nov 1 2006

Item No. E.3

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Warehouse		1.25	1000 sq ft	800.43	1,000.54	43,723.49
					1,000.54	43,723.49

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.4	99.4	0.2
Light Truck < 3750 lbs	0.0	1.4	95.9	2.7
Light Truck 3751-5750 lbs	0.0	0.4	99.6	0.0
Med Truck 5751-8500 lbs	0.0	0.9	99.1	0.0
Lit Heavy Truck 8501-10,000 lbs	0.0	0.0	82.4	17.6
Lit Heavy Truck 10,001-14,000 lbs	0.0	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.0	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	60.0	0.0	0.0	100.0
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	100.0
Motorcycle	0.0	50.0	50.0	0.0
School Bus	0.0	0.0	0.0	100.0
Motor Home	0.0	0.0	88.9	11.1

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	43.7	43.7	43.7	43.7	43.7	43.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Warehouse				2.0	1.0	97.0

CalEEMod 2013

Summer Operational Impacts

2010 Westridge EIR
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	938.00	1000sqft	21.53	938,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2014
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - No construction emissions modeled
- Off-road Equipment - No construction emissions modeled
- Vehicle Trips - Based on the 2010 Westridge EIR URBEMIS inputs
- Vehicle Emission Factors - Based on the 2010 Westridge EIR URBEMIS inputs
- Vehicle Emission Factors - Based on the 2010 Westridge EIR URBEMIS inputs
- Vehicle Emission Factors - Based on the 2010 Westridge EIR URBEMIS inputs

Item No. E.3

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.04	0.34
tblVehicleEF	HHD	0.04	0.34
tblVehicleEF	HHD	0.04	0.34
tblVehicleEF	LDA	0.48	0.46
tblVehicleEF	LDA	0.48	0.46
tblVehicleEF	LDA	0.48	0.46
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00

-815-	tblVehicleEF	MDV	0.16	0.00	
	tblVehicleEF	MH	2.9060e-003	0.00	
	tblVehicleEF	MH	2.9060e-003	0.00	
	tblVehicleEF	MH	2.9060e-003	0.00	
	tblVehicleEF	MHD	0.02	0.14	
	tblVehicleEF	MHD	0.02	0.14	
	tblVehicleEF	MHD	0.02	0.14	
	tblVehicleEF	OBUS	1.1320e-003	0.00	
	tblVehicleEF	OBUS	1.1320e-003	0.00	
	tblVehicleEF	OBUS	1.1320e-003	0.00	
	tblVehicleEF	SBUS	7.3600e-004	0.00	
	tblVehicleEF	SBUS	7.3600e-004	0.00	
	tblVehicleEF	SBUS	7.3600e-004	0.00	
	tblVehicleEF	UBUS	1.3460e-003	0.00	
	tblVehicleEF	UBUS	1.3460e-003	0.00	
	tblVehicleEF	UBUS	1.3460e-003	0.00	
	Item No. E.3	tblVehicleTrips	CC_TL	8.40	40.80
		tblVehicleTrips	CC_TTP	0.00	97.00
tblVehicleTrips		CNW_TL	6.90	40.80	
tblVehicleTrips		CNW_TTP	41.00	1.00	
tblVehicleTrips		CW_TL	16.60	40.80	
tblVehicleTrips		CW_TTP	59.00	2.00	
tblVehicleTrips		ST_TR	2.59	1.69	
tblVehicleTrips		SU_TR	2.59	1.69	
tblVehicleTrips		WD_TR	2.59	1.69	

Emissions Summary

Overall Construction (Maximum Daily Emission)

mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Energy	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
Mobile	100.1870	456.1873	329.3709	1.2000	49.7398	9.6303	59.3702	13.5972	8.8575	22.4547						
Total	124.7844	456.7274	329.9240	1.2033	49.7398	9.6717	59.4115	13.5972	8.8989	22.4961						

-817-

mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Energy	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
Mobile	100.1870	456.1873	329.3709	1.2000	49.7398	9.6303	59.3702	13.5972	8.8575	22.4547						
Total	124.7844	456.7274	329.9240	1.2033	49.7398	9.6717	59.4115	13.5972	8.8989	22.4961						

Item No. E.3

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2014	1/1/2014	5	1	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	0	8.00	162	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

Item No. E.3

Demolition - 2014

Regulated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						

-820-

Regulated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	100.1870	456.1873	329.3709	1.2000	49.7398	9.6303	59.3702	13.5972	8.8575	22.4547						
Unmitigated	100.1870	456.1873	329.3709	1.2000	49.7398	9.6303	59.3702	13.5972	8.8575	22.4547						

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,585.22	1,585.22	1585.22	21,955,037	21,955,037
Total	1,585.22	1,585.22	1,585.22	21,955,037	21,955,037

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	40.80	40.80	40.80	2.00	97.00	1.00	92	5	3

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.460000	0.000000	0.000000	0.000000	0.061000	0.000000	0.139000	0.340000	0.000000	0.000000	0.000000	0.000000	0.000000

Energy Detail

Historical Energy Use: N

Mitigation Measures Energy

Item No. E.3

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
NaturalGas Unmitigated	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						

5.2 Energy by Land Use - NaturalGas

Unmitigated

-822-

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Pail	5499.51	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
Total		0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	5.49951	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
Total		0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						

6.0 Area Detail

-823-

Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Unmitigated	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						

Item No. E.3

Area by SubCategory

mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	18.5724					0.0000	0.0000		0.0000	0.0000						
Landscaping	0.0101	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Architectural Coating	5.9557					0.0000	0.0000		0.0000	0.0000						
Total	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						

-824-

mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	18.5724					0.0000	0.0000		0.0000	0.0000						
Landscaping	0.0101	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Architectural Coating	5.9557					0.0000	0.0000		0.0000	0.0000						
Total	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

-825-

Item No. E.3

Westridge Commerce Center
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	263.80	1000sqft	6.06	263,800.00	0
Unrefrigerated Warehouse-No Rail	536.63	1000sqft	12.32	536,630.00	0
Parking Lot	546.00	Space	4.91	218,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2014
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No construction emissions modeled

Off-road Equipment - No construction emissions modeled

Vehicle Trips - TG Rate from Project Traffic Study. Overall TL was calculated using the % trips associated with PC vs. Trucks (weighted average).

Vehicle Emission Factors - Fleet mix is based on the traffic study

Vehicle Emission Factors - Fleet mix is based on the traffic study

Vehicle Emission Factors - Fleet mix is based on the traffic study

Consumer Products -

Water And Wastewater - Water usage based on 700 gallons per day x acres of building space and landscaped area for indoor/outdoor water usage.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00

-827-

Item No. E.3

tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleTrips	CNW_TL	6.90	43.76
tblVehicleTrips	CNW_TL	6.90	43.76

tblVehicleTrips	CW_TL	16.60	43.76
tblVehicleTrips	CW_TL	16.60	43.76
tblVehicleTrips	ST_TR	2.59	1.25
tblVehicleTrips	ST_TR	2.59	1.25
tblVehicleTrips	SU_TR	2.59	1.25
tblVehicleTrips	SU_TR	2.59	1.25
tblVehicleTrips	WD_TR	2.59	1.25
tblVehicleTrips	WD_TR	2.59	1.25
tblWater	IndoorWaterUseRate	61,003,750.00	1,548,330.00
tblWater	IndoorWaterUseRate	124,095,687.50	3,147,760.00
tblWater	OutdoorWaterUseRate	0.00	1,391,453.00

0 Emissions Summary

-829-

Item No. E.3

Overall Construction (Maximum Daily Emission)

mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

-830- mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Energy	0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886
Mobile	77.3605	421.4480	262.4322	1.0170	33.7167	8.4345	42.1512	9.1214	7.7581	16.8794		102,746.5166	102,746.5166	1.2840		102,773.4814
Total	103.1103	425.4374	265.9259	1.0410	33.7167	8.7381	42.4548	9.1214	8.0617	17.1830		107,532.4752	107,532.4752	1.3767	0.0877	107,588.5832

-831-

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Energy	0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886
Mobile	77.3605	421.4480	262.4322	1.0170	33.7167	8.4345	42.1512	9.1214	7.7581	16.8794		102,746.5166	102,746.5166	1.2840		102,773.4814
Total	103.1103	425.4374	265.9259	1.0410	33.7167	8.7381	42.4548	9.1214	8.0617	17.1830		107,532.4752	107,532.4752	1.3767	0.0877	107,588.5832

Item No. E.3

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/29/2014	1/29/2014	5	1	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

-833-

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Item No. E.3

Site Preparation - 2014

Regulated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

-834-

Regulated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	77.3605	421.4480	262.4322	1.0170	33.7167	8.4345	42.1512	9.1214	7.7581	16.8794		102,746.5166	102,746.5166	1.2840		102,773.4814
Unmitigated	77.3605	421.4480	262.4322	1.0170	33.7167	8.4345	42.1512	9.1214	7.7581	16.8794		102,746.5166	102,746.5166	1.2840		102,773.4814

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	329.75	329.75	329.75	4,898,287	4,898,287
Unrefrigerated Warehouse-No Rail	670.79	670.79	670.79	9,964,246	9,964,246
Total	1,000.54	1,000.54	1,000.54	14,862,533	14,862,533

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	43.76	8.40	43.76	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	43.76	8.40	43.76	59.00	0.00	41.00	92	5	3

Item No. E.3

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
400000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.600000	0.000000	0.000000	0.000000	0.000000	0.000000

Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886
NaturalGas Unmitigated	0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886

-836-

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Pail	37531.9	0.4048	3.6796	3.0909	0.0221		0.2797	0.2797		0.2797	0.2797		4,415.5146	4,415.5146	0.0846	0.0810	4,442.3867
Unrefrigerated Warehouse-No Pail	3146.27	0.0339	0.3085	0.2591	1.8500e-003		0.0234	0.0234		0.0234	0.0234		370.1493	370.1493	7.0900e-003	6.7900e-003	372.4020
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Pail	37.5319	0.4048	3.6796	3.0909	0.0221		0.2797	0.2797		0.2797	0.2797		4,415.5146	4,415.5146	0.0846	0.0810	4,442.3867
Unrefrigerated Warehouse-No Pail	3.14627	0.0339	0.3085	0.2591	1.8500e-003		0.0234	0.0234		0.0234	0.0234		370.1493	370.1493	7.0900e-003	6.7900e-003	372.4020
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886

0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Unmitigated	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132

Item No. E.3

Area by SubCategory

mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.1238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.1728					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0145	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Total	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132

838

mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.1238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.1728					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0145	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Total	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

-839-

Item No. E.3

ATTACHMENT “B”

Winter Operational Impacts

URBEMIS 2007

Winter Operational Impacts

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name:

Project Name: Westridge Commerce Center - Aldi

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TC (lbs/day, unmitigated)	4.74	0.81	0.68	0.00	0.00	0.00	966.44

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	49.60	565.35	270.65	1.16	95.49	31.56	124,333.32

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	54.34	566.16	271.33	1.16	95.49	31.56	125,299.76

9/16/2013 11:32:03 AM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.06	0.81	0.68	0.00	0.00	0.00	966.44
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping - No Winter Emissions							
Consumer Products	0.00						
Architectural Coatings	4.68						
TOTALS (lbs/day, unmitigated)	4.74	0.81	0.68	0.00	0.00	0.00	966.44

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Warehouse	49.60	565.35	270.65	1.16	95.49	31.56	124,333.32
TOTALS (lbs/day, unmitigated)	49.60	565.35	270.65	1.16	95.49	31.56	124,333.32

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

An : Year: 2014 Temperature (F): 60 Season: Winter

En / version : Emfac2007 V2.3 Nov 1 2006

Item No. E.3

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Warehouse		1.25	1000 sq ft	800.43	1,000.54	43,723.49
					1,000.54	43,723.49

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.4	99.4	0.2
Light Truck < 3750 lbs	0.0	1.4	95.9	2.7
Light Truck 3751-5750 lbs	0.0	0.4	99.6	0.0
Med Truck 5751-8500 lbs	0.0	0.9	99.1	0.0
Lit Heavy Truck 8501-10,000 lbs	0.0	0.0	82.4	17.6
Lit Heavy Truck 10,001-14,000 lbs	0.0	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.0	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	60.0	0.0	0.0	100.0
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	100.0
Motorcycle	0.0	50.0	50.0	0.0
School Bus	0.0	0.0	0.0	100.0
Motor Home	0.0	0.0	88.9	11.1

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	43.7	43.7	43.7	43.7	43.7	43.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Warehouse				2.0	1.0	97.0

-845-

2010 Westridge EIR
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	938.00	1000sqft	21.53	938,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2014
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - No construction emissions modeled
- Off-road Equipment - No construction emissions modeled
- Vehicle Trips - Based on the 2010 Westridge EIR URBEMIS inputs
- Vehicle Emission Factors - Based on the 2010 Westridge EIR URBEMIS inputs
- Vehicle Emission Factors - Based on the 2010 Westridge EIR URBEMIS inputs
- Vehicle Emission Factors - Based on the 2010 Westridge EIR URBEMIS inputs

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.04	0.34
tblVehicleEF	HHD	0.04	0.34
tblVehicleEF	HHD	0.04	0.34
tblVehicleEF	LDA	0.48	0.46
tblVehicleEF	LDA	0.48	0.46
tblVehicleEF	LDA	0.48	0.46
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00

-847-

Item No. E.3

tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleTrips	CC_TL	8.40	40.80
tblVehicleTrips	CC_TTP	0.00	97.00
tblVehicleTrips	CNW_TL	6.90	40.80
tblVehicleTrips	CNW_TTP	41.00	1.00
tblVehicleTrips	CW_TL	16.60	40.80
tblVehicleTrips	CW_TTP	59.00	2.00
tblVehicleTrips	ST_TR	2.59	1.69
tblVehicleTrips	SU_TR	2.59	1.69
tblVehicleTrips	WD_TR	2.59	1.69

-848-

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

849- Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Item No. E.3

Overall Operational

mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Energy	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
Mobile	105.5655	475.5805	321.9348	1.1774	49.7398	9.6507	59.3905	13.5972	8.8763	22.4734						
Total	130.1630	476.1206	322.4878	1.1806	49.7398	9.6920	59.4319	13.5972	8.9176	22.5148						

-850-

mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Energy	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
Mobile	105.5655	475.5805	321.9348	1.1774	49.7398	9.6507	59.3905	13.5972	8.8763	22.4734						
Total	130.1630	476.1206	322.4878	1.1806	49.7398	9.6920	59.4319	13.5972	8.9176	22.5148						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2014	1/1/2014	5	1	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	0	8.00	162	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Item No. E.3

Demolition - 2014

mitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						

-852-

mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

3.2 Demolition - 2014

Mitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

Item No. E.3

Operational Detail - Mobile

Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	105.5655	475.5805	321.9348	1.1774	49.7398	9.6507	59.3905	13.5972	8.8763	22.4734						
Unmitigated	105.5655	475.5805	321.9348	1.1774	49.7398	9.6507	59.3905	13.5972	8.8763	22.4734						

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,585.22	1,585.22	1585.22	21,955,037	21,955,037
Total	1,585.22	1,585.22	1,585.22	21,955,037	21,955,037

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	40.80	40.80	40.80	2.00	97.00	1.00	92	5	3

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.460000	0.000000	0.000000	0.000000	0.061000	0.000000	0.139000	0.340000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
NaturalGas Unmitigated	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						

5.2 Energy by Land Use - NaturalGas

Unmitigated

-855-

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Pail	5499.51	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
Total		0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						

Item No. E.3

Energy by Land Use - Natural Gas

igated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	5.49951	0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						
Total		0.0593	0.5392	0.4529	3.2400e-003		0.0410	0.0410		0.0410	0.0410						

6.0 Area Detail

-856-

Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Unmitigated	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.9557					0.0000	0.0000		0.0000	0.0000						
Consumer Products	18.5724					0.0000	0.0000		0.0000	0.0000						
Landscaping	0.0101	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Total	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						

-857

mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	18.5724					0.0000	0.0000		0.0000	0.0000						
Landscaping	0.0101	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						
Architectural Coating	5.9557					0.0000	0.0000		0.0000	0.0000						
Total	24.5382	9.8000e-004	0.1001	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						

Item No. E.3

Water Detail

Mitigation Measures Water

Waste Detail

Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

ject Characteristics -

id Use -

struction Phase - No construction emissions modeled

Off-road Equipment - No construction emissions modeled

Vehicle Trips - TG Rate from Project Traffic Study. Overall TL was calculated using the % trips associated with PC vs. Trucks (weighted average).

Vehicle Emission Factors - Fleet mix is based on the traffic study

Vehicle Emission Factors - Fleet mix is based on the traffic study

Vehicle Emission Factors - Fleet mix is based on the traffic study

Consumer Products -

Water And Wastewater - Water usage based on 700 gallons per day x acres of building space and landscaped area for indoor/outdoor water usage.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00

-860-

	tblVehicleEF	LHD1	0.06	0.00
	tblVehicleEF	LHD1	0.06	0.00
	tblVehicleEF	LHD2	9.0620e-003	0.00
	tblVehicleEF	LHD2	9.0620e-003	0.00
	tblVehicleEF	LHD2	9.0620e-003	0.00
	tblVehicleEF	MCY	4.8310e-003	0.00
	tblVehicleEF	MCY	4.8310e-003	0.00
	tblVehicleEF	MCY	4.8310e-003	0.00
	tblVehicleEF	MDV	0.16	0.00
	tblVehicleEF	MDV	0.16	0.00
	tblVehicleEF	MDV	0.16	0.00
	tblVehicleEF	MH	2.9060e-003	0.00
	tblVehicleEF	MH	2.9060e-003	0.00
	tblVehicleEF	MH	2.9060e-003	0.00
	tblVehicleEF	MHD	0.02	0.00
	tblVehicleEF	MHD	0.02	0.00
	tblVehicleEF	MHD	0.02	0.00
	tblVehicleEF	OBUS	1.1320e-003	0.00
	tblVehicleEF	OBUS	1.1320e-003	0.00
	tblVehicleEF	OBUS	1.1320e-003	0.00
	tblVehicleEF	SBUS	7.3600e-004	0.00
	tblVehicleEF	SBUS	7.3600e-004	0.00
	tblVehicleEF	SBUS	7.3600e-004	0.00
	tblVehicleEF	UBUS	1.3460e-003	0.00
	tblVehicleEF	UBUS	1.3460e-003	0.00
	tblVehicleEF	UBUS	1.3460e-003	0.00
	tblVehicleTrips	CNW_TL	6.90	43.76
	tblVehicleTrips	CNW_TL	6.90	43.76

-861-

Item No. E.3

tblVehicleTrips	CW_TL	16.60	43.76
tblVehicleTrips	CW_TL	16.60	43.76
tblVehicleTrips	ST_TR	2.59	1.25
tblVehicleTrips	ST_TR	2.59	1.25
tblVehicleTrips	SU_TR	2.59	1.25
tblVehicleTrips	SU_TR	2.59	1.25
tblVehicleTrips	WD_TR	2.59	1.25
tblVehicleTrips	WD_TR	2.59	1.25
tblWater	IndoorWaterUseRate	61,003,750.00	1,548,330.00
tblWater	IndoorWaterUseRate	124,095,687.50	3,147,760.00
tblWater	OutdoorWaterUseRate	0.00	1,391,453.00

0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Item No. E.3

Overall Operational

mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Energy	0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886
Mobile	81.0007	439.3110	262.2185	1.0035	33.7167	8.4482	42.1649	9.1214	7.7707	16.8921		101,536.6906	101,536.6906	1.2884		101,563.7478
Total	106.7505	443.3004	265.7122	1.0275	33.7167	8.7518	42.4685	9.1214	8.0743	17.1957		106,322.6491	106,322.6491	1.3811	0.0877	106,378.8496

-864-

mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Energy	0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886
Mobile	81.0007	439.3110	262.2185	1.0035	33.7167	8.4482	42.1649	9.1214	7.7707	16.8921		101,536.6906	101,536.6906	1.2884		101,563.7478
Total	106.7505	443.3004	265.7122	1.0275	33.7167	8.7518	42.4685	9.1214	8.0743	17.1957		106,322.6491	106,322.6491	1.3811	0.0877	106,378.8496

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/29/2014	1/29/2014	5	1	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Item No. E.3

Site Preparation - 2014

mitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

-866-

mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.2 Site Preparation - 2014

Mitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

-867- **Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Item No. E.3

Operational Detail - Mobile

Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	81.0007	439.3110	262.2185	1.0035	33.7167	8.4482	42.1649	9.1214	7.7707	16.8921		101,536.6906	101,536.6906	1.2884		101,563.7478
Unmitigated	81.0007	439.3110	262.2185	1.0035	33.7167	8.4482	42.1649	9.1214	7.7707	16.8921		101,536.6906	101,536.6906	1.2884		101,563.7478

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	329.75	329.75	329.75	4,898,287	4,898,287
Unrefrigerated Warehouse-No Rail	670.79	670.79	670.79	9,964,246	9,964,246
Total	1,000.54	1,000.54	1,000.54	14,862,533	14,862,533

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	43.76	8.40	43.76	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	43.76	8.40	43.76	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.400000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.600000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886
NaturalGas Unmitigated	0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886

869-

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Parking Lot	37531.9	0.4048	3.6796	3.0909	0.0221		0.2797	0.2797		0.2797	0.2797		4,415.5146	4,415.5146	0.0846	0.0810	4,442.3867
Unrefrigerated Warehouse-No Parking Lot	3146.27	0.0339	0.3085	0.2591	1.8500e-003		0.0234	0.0234		0.0234	0.0234		370.1493	370.1493	7.0900e-003	6.7900e-003	372.4020
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886

Item No. E.3

Energy by Land Use - Natural Gas

igated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Fuel	37.5319	0.4048	3.6796	3.0909	0.0221		0.2797	0.2797		0.2797	0.2797		4,415.5146	4,415.5146	0.0846	0.0810	4,442.3867
Unrefrigerated Warehouse-No Fuel	3.14627	0.0339	0.3085	0.2591	1.8500e-003		0.0234	0.0234		0.0234	0.0234		370.1493	370.1493	7.0900e-003	6.7900e-003	372.4020
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4387	3.9881	3.3500	0.0239		0.3031	0.3031		0.3031	0.3031		4,785.6639	4,785.6639	0.0917	0.0877	4,814.7886

0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Unmitigated	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.1238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.1728					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0145	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Total	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132

-871-

mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.1238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.1728					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0145	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132
Total	25.3111	1.4000e-003	0.1437	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.2947	0.2947	8.8000e-004		0.3132

Item No. E.3

Water Detail

Mitigation Measures Water

Waste Detail

Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

ATTACHMENT "C"

Annual Operational Impacts

Westridge Commerce Center
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	263.80	1000sqft	6.06	263,800.00	0
Unrefrigerated Warehouse-No Rail	536.63	1000sqft	12.32	536,630.00	0
Parking Lot	546.00	Space	4.91	218,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2014
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No construction emissions modeled

Off-road Equipment - No construction emissions modeled

Vehicle Trips - TG Rate from Project Traffic Study. Overall TL was calculated using the % trips associated with PC vs. Trucks (weighted average).

Vehicle Emission Factors - Fleet mix is based on the traffic study

Vehicle Emission Factors - Fleet mix is based on the traffic study

Vehicle Emission Factors - Fleet mix is based on the traffic study

Consumer Products -

Water And Wastewater - Water usage based on 700 gallons per day x acres of building space and landscaped area for indoor/outdoor water usage.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	HHD	0.04	0.60
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDA	0.48	0.40
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00

-875-

Item No. E.3

-876-

tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	LHD2	9.0620e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MCY	4.8310e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MH	2.9060e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	OBUS	1.1320e-003	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	SBUS	7.3600e-004	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleEF	UBUS	1.3460e-003	0.00
tblVehicleTrips	CNW_TL	6.90	43.76
tblVehicleTrips	CNW_TL	6.90	43.76

tblVehicleTrips	CW_TL	16.60	43.76
tblVehicleTrips	CW_TL	16.60	43.76
tblVehicleTrips	ST_TR	2.59	1.25
tblVehicleTrips	ST_TR	2.59	1.25
tblVehicleTrips	SU_TR	2.59	1.25
tblVehicleTrips	SU_TR	2.59	1.25
tblVehicleTrips	WD_TR	2.59	1.25
tblVehicleTrips	WD_TR	2.59	1.25
tblWater	IndoorWaterUseRate	61,003,750.00	1,548,330.00
tblWater	IndoorWaterUseRate	124,095,687.50	3,147,760.00
tblWater	OutdoorWaterUseRate	0.00	1,391,453.00

0 Emissions Summary

c-877-

Item No. E.3

Overall Construction

mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.6185	1.8000e-004	0.0180	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0334	0.0334	1.0000e-004	0.0000	0.0355
Energy	0.0801	0.7278	0.6114	4.3700e-003		0.0553	0.0553		0.0553	0.0553	0.0000	4,422.8197	4,422.8197	0.1821	0.0491	4,441.8496
Mobile	14.0481	81.0837	48.7109	0.1829	6.0288	1.5343	7.5631	1.6337	1.4113	3.0449	0.0000	16,783.5380	16,783.5380	0.2121	0.0000	16,787.9912
Waste						0.0000	0.0000		0.0000	0.0000	152.7304	0.0000	152.7304	9.0261	0.0000	342.2787
Water						0.0000	0.0000		0.0000	0.0000	1.4899	21.9223	23.4122	0.1540	3.8200e-003	27.8315
Total	18.7466	81.8117	49.3402	0.1873	6.0288	1.5897	7.6184	1.6337	1.4666	3.1003	154.2203	21,228.3135	21,382.5337	9.5744	0.0529	21,599.9866

-879-

Item No. E.3

Overall Operational

Regulated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.6185	1.8000e-004	0.0180	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0334	0.0334	1.0000e-004	0.0000	0.0355
Energy	0.0801	0.7278	0.6114	4.3700e-003		0.0553	0.0553		0.0553	0.0553	0.0000	4,422.8197	4,422.8197	0.1821	0.0491	4,441.8496
Mobile	14.0481	81.0837	48.7109	0.1829	6.0288	1.5343	7.5631	1.6337	1.4113	3.0449	0.0000	16,783.5380	16,783.5380	0.2121	0.0000	16,787.9912
Waste						0.0000	0.0000		0.0000	0.0000	152.7304	0.0000	152.7304	9.0261	0.0000	342.2787
Water						0.0000	0.0000		0.0000	0.0000	1.4899	21.9223	23.4122	0.1540	3.8200e-003	27.8292
Total	18.7466	81.8117	49.3402	0.1873	6.0288	1.5897	7.6184	1.6337	1.4666	3.1003	154.2203	21,228.3135	21,382.5337	9.5743	0.0529	21,599.9842

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.1334e-004	0.0000	1.1019e-005

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/29/2014	1/29/2014	5	1	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Item No. E.3

Site Preparation - 2014

Mitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

-882-

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.2 Site Preparation - 2014

Mitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

-883-

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	14.0481	81.0837	48.7109	0.1829	6.0288	1.5343	7.5631	1.6337	1.4113	3.0449	0.0000	16,783.53 80	16,783.53 80	0.2121	0.0000	16,787.99 12
Unmitigated	14.0481	81.0837	48.7109	0.1829	6.0288	1.5343	7.5631	1.6337	1.4113	3.0449	0.0000	16,783.53 80	16,783.53 80	0.2121	0.0000	16,787.99 12

Item No. E.3

Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	329.75	329.75	329.75	4,898,287	4,898,287
Unrefrigerated Warehouse-No Rail	670.79	670.79	670.79	9,964,246	9,964,246
Total	1,000.54	1,000.54	1,000.54	14,862,533	14,862,533

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	43.76	8.40	43.76	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	43.76	8.40	43.76	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.400000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.600000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,630.4994	3,630.4994	0.1669	0.0345	3,644.7074
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,630.4994	3,630.4994	0.1669	0.0345	3,644.7074
NaturalGas Mitigated	0.0801	0.7278	0.6114	4.3700e-003		0.0553	0.0553		0.0553	0.0553	0.0000	792.3203	792.3203	0.0152	0.0145	797.1423
NaturalGas Unmitigated	0.0801	0.7278	0.6114	4.3700e-003		0.0553	0.0553		0.0553	0.0553	0.0000	792.3203	792.3203	0.0152	0.0145	797.1423

F-885-2 Energy by Land Use - NaturalGas Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated Warehouse-No Pail	1.36991e+007	0.0739	0.6715	0.5641	4.0300e-003		0.0510	0.0510		0.0510	0.0510	0.0000	731.0380	731.0380	0.0140	0.0134	735.4869
Unrefrigerated Warehouse-No Pail	1.14839e+006	6.1900e-003	0.0563	0.0473	3.4000e-004		4.2800e-003	4.2800e-003		4.2800e-003	4.2800e-003	0.0000	61.2824	61.2824	1.1700e-003	1.1200e-003	61.6553
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0801	0.7278	0.6114	4.3700e-003		0.0553	0.0553		0.0553	0.0553	0.0000	792.3203	792.3203	0.0152	0.0145	797.1423

Item No. E.3

Energy by Land Use - NaturalGas

igated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated Warehouse-No Pail	1.36991e+007	0.0739	0.6715	0.5641	4.0300e-003		0.0510	0.0510		0.0510	0.0510	0.0000	731.0380	731.0380	0.0140	0.0134	735.4869
Unrefrigerated Warehouse-No Pail	1.14839e+006	6.1900e-003	0.0563	0.0473	3.4000e-004		4.2800e-003	4.2800e-003		4.2800e-003	4.2800e-003	0.0000	61.2824	61.2824	1.1700e-003	1.1200e-003	61.6553
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0801	0.7278	0.6114	4.3700e-003		0.0553	0.0553		0.0553	0.0553	0.0000	792.3203	792.3203	0.0152	0.0145	797.1423

883

Energy by Land Use - Electricity

unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	192192	54.9990	2.5300e-003	5.2000e-004	55.2142
Refrigerated Warehouse-No Pail	1.08738e+007	3,111.7318	0.1430	0.0296	3,123.9097
Unrefrigerated Warehouse-No Pail	1.62062e+006	463.7685	0.0213	4.4100e-003	465.5835
Total		3,630.4994	0.1669	0.0345	3,644.7074

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	192192	54.9990	2.5300e-003	5.2000e-004	55.2142
Refrigerated Warehouse-No Pail	1.08738e+007	3,111.7318	0.1430	0.0296	3,123.9097
Unrefrigerated Warehouse-No Pail	1.62062e+006	463.7685	0.0213	4.4100e-003	465.5835
Total		3,630.4994	0.1669	0.0345	3,644.7074

0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.6185	1.8000e-004	0.0180	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0334	0.0334	1.0000e-004	0.0000	0.0355
Unmitigated	4.6185	1.8000e-004	0.0180	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0334	0.0334	1.0000e-004	0.0000	0.0355

Item No. E.3

Area by SubCategory

mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8100e-003	1.8000e-004	0.0180	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0334	0.0334	1.0000e-004	0.0000	0.0355
Total	4.6184	1.8000e-004	0.0180	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0334	0.0334	1.0000e-004	0.0000	0.0355

888

mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8100e-003	1.8000e-004	0.0180	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0334	0.0334	1.0000e-004	0.0000	0.0355
Total	4.6184	1.8000e-004	0.0180	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0334	0.0334	1.0000e-004	0.0000	0.0355

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.4122	0.1540	3.8200e-003	27.8292
Unmitigated	23.4122	0.1540	3.8200e-003	27.8315

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Pail	1.54833 / 0	6.2606	0.0507	1.2500e-003	7.7120
Unrefrigerated Warehouse-No Pail	3.14776 / 1.39145	17.1516	0.1033	2.5800e-003	20.1196
Total		23.4122	0.1540	3.8300e-003	27.8315

Item No. E.3

Water by Land Use

igated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Pail	1.54833 / 0	6.2606	0.0507	1.2400e-003	7.7112
Unrefrigerated Warehouse-No Pail	3.14776 / 1.39145	17.1516	0.1033	2.5700e-003	20.1180
Total		23.4122	0.1540	3.8100e-003	27.8292

890-0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	152.7304	9.0261	0.0000	342.2787
Mitigated	152.7304	9.0261	0.0000	342.2787

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Pail	247.97	50.3357	2.9748	0.0000	112.8055
Unrefrigerated Warehouse-No Pail	504.43	102.3947	6.0514	0.0000	229.4732
Total		152.7304	9.0261	0.0000	342.2787

-891-

mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Pail	247.97	50.3357	2.9748	0.0000	112.8055
Unrefrigerated Warehouse-No Pail	504.43	102.3947	6.0514	0.0000	229.4732
Total		152.7304	9.0261	0.0000	342.2787

Item No. E.3

Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

0 Vegetation

ATTACHMENT "D"

HRA Risk Calculations and AERMOD Output

```

**
*****
**
** ISCT3 Input Produced by:
** AERMOD View Ver. 6.2.0
** Lakes Environmental Software Inc.
** Date: 10/8/2009
** File: C:\Documents and Settings\hqureshi\Desktop\06192 HRA\HRA.INP
**
*****
**
**
*****
** ISCT3 Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc
TITLETWO West Ridge HRA
MODELOPT CONC NOCMPL URBAN NOCALM
AVERTIME ANNUAL
POLLUTID DPM
TERRHGT5 FLAT
FLAGPOLE 1.50
RUNORNOT RUN
CO FINISHED
**
*****
** ISCT3 Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION NORTH AREAPOLY 484851.861 3755334.115
LOCATION SOUTH AREAPOLY 484832.883 3755147.441
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = RED
** DESCRSRC
** Length of Side = 14.00
** Emission Rate = 1.22E-5
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 3
** 485514.05, 3755440.55, 0.00, 4.00, 0.0
** 485512.92, 3755025.40, 0.00, 4.00, 12.43
** 485281.77, 3755025.97, 0.00, 4.00, 11.94
**
*****
LOCATION L0001052 VOLUME 485514.043 3755433.500
LOCATION L0001053 VOLUME 485513.969 3755406.767
LOCATION L0001054 VOLUME 485513.894 3755380.033
LOCATION L0001055 VOLUME 485513.820 3755353.300
LOCATION L0001056 VOLUME 485513.745 3755326.567
LOCATION L0001057 VOLUME 485513.671 3755299.833
LOCATION L0001058 VOLUME 485513.596 3755273.100
LOCATION L0001059 VOLUME 485513.522 3755246.367
LOCATION L0001060 VOLUME 485513.447 3755219.633
LOCATION L0001061 VOLUME 485513.373 3755192.900
LOCATION L0001062 VOLUME 485513.298 3755166.167
LOCATION L0001063 VOLUME 485513.224 3755139.433
LOCATION L0001064 VOLUME 485513.149 3755112.700
LOCATION L0001065 VOLUME 485513.075 3755085.967
LOCATION L0001066 VOLUME 485513.000 3755059.233

```

```

LOCATION L0001067 VOLUME 485512.926 3755032.500
LOCATION L0001068 VOLUME 485494.226 3755025.540
LOCATION L0001069 VOLUME 485468.545 3755025.596
LOCATION L0001070 VOLUME 485442.865 3755025.652
LOCATION L0001071 VOLUME 485417.184 3755025.707
LOCATION L0001072 VOLUME 485391.503 3755025.763
LOCATION L0001073 VOLUME 485365.823 3755025.818
LOCATION L0001074 VOLUME 485340.142 3755025.874
LOCATION L0001075 VOLUME 485314.462 3755025.929
LOCATION L0001076 VOLUME 485288.781 3755025.985
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDS
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 2.45E-06
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 2
** 485270.26, 3755112.67, 0.00, 4.00, 0.0
** 485198.77, 3755113.34, 0.00, 4.00, 7.15
**
*****
LOCATION L0001077 VOLUME 485265.250 3755112.785
LOCATION L0001078 VOLUME 485249.883 3755112.892
LOCATION L0001079 VOLUME 485234.516 3755113.000
LOCATION L0001080 VOLUME 485219.148 3755113.108
LOCATION L0001081 VOLUME 485203.781 3755113.215
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDTOT
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 2.54E-06
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 2
** 485281.95, 3755038.82, 0.00, 4.00, 0.0
** 485280.98, 3755113.51, 0.00, 4.00, 7.53
**
*****
LOCATION L0001082 VOLUME 485281.873 3755043.750
LOCATION L0001083 VOLUME 485281.663 3755059.937
LOCATION L0001084 VOLUME 485281.453 3755076.125
LOCATION L0001085 VOLUME 485281.243 3755092.313
LOCATION L0001086 VOLUME 485281.034 3755108.500
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDN
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 1.13E-5
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 4
** 485281.03, 3755114.82, 0.00, 4.00, 0.0
** 485270.33, 3755371.11, 0.00, 4.00, 8.82
** 485257.73, 3755376.46, 0.00, 4.00, 6.41
** 485195.66, 3755376.08, 0.00, 4.00, 7.22
**
*****
LOCATION L0001087 VOLUME 485280.823 3755119.746
LOCATION L0001088 VOLUME 485280.033 3755138.689
LOCATION L0001089 VOLUME 485279.243 3755157.632
LOCATION L0001090 VOLUME 485278.453 3755176.575
LOCATION L0001091 VOLUME 485277.663 3755195.518

```

LOCATION L0001092 VOLUME 485276.873 3755214.461
 LOCATION L0001093 VOLUME 485276.083 3755233.404
 LOCATION L0001094 VOLUME 485275.292 3755252.346
 LOCATION L0001095 VOLUME 485274.502 3755271.289
 LOCATION L0001096 VOLUME 485273.712 3755290.232
 LOCATION L0001097 VOLUME 485272.922 3755309.175
 LOCATION L0001098 VOLUME 485272.132 3755328.118
 LOCATION L0001099 VOLUME 485271.342 3755347.061
 LOCATION L0001100 VOLUME 485270.552 3755366.004
 LOCATION L0001101 VOLUME 485262.303 3755374.503
 LOCATION L0001102 VOLUME 485247.203 3755376.415
 LOCATION L0001103 VOLUME 485231.687 3755376.290
 LOCATION L0001104 VOLUME 485216.172 3755376.165
 LOCATION L0001105 VOLUME 485200.656 3755376.040

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----
 ** LINE Source ID = EA1
 ** DESCRSRC
 ** Length of Side = 14.00
 ** Emission Rate = 2.88E-5
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 9
 ** 483513.58, 3755437.36, 0.00, 4.00, 0.0
 ** 483523.83, 3755223.52, 0.00, 4.00, 11.63
 ** 484153.63, 3755222.06, 0.00, 4.00, 12.74
 ** 484283.98, 3755186.90, 0.00, 4.00, 12.55
 ** 484370.40, 3755109.28, 0.00, 4.00, 10.81
 ** 484502.21, 3755038.97, 0.00, 4.00, 11.58
 ** 484588.63, 3755021.40, 0.00, 4.00, 10.25
 ** 484758.53, 3755019.93, 0.00, 4.00, 11.29
 ** 484782.82, 3755021.23, 0.00, 4.00, 11.31
 ** -----

LOCATION L0001106 VOLUME 483513.899 3755430.258
 LOCATION L0001107 VOLUME 483515.100 3755405.287
 LOCATION L0001108 VOLUME 483516.301 3755380.317
 LOCATION L0001109 VOLUME 483517.502 3755355.346
 LOCATION L0001110 VOLUME 483518.703 3755330.375
 LOCATION L0001111 VOLUME 483519.904 3755305.404
 LOCATION L0001112 VOLUME 483521.105 3755280.433
 LOCATION L0001113 VOLUME 483522.306 3755255.463
 LOCATION L0001114 VOLUME 483523.507 3755230.492
 LOCATION L0001115 VOLUME 483544.226 3755223.451
 LOCATION L0001116 VOLUME 483571.607 3755223.386
 LOCATION L0001117 VOLUME 483598.989 3755223.321
 LOCATION L0001118 VOLUME 483626.371 3755223.256
 LOCATION L0001119 VOLUME 483653.753 3755223.191
 LOCATION L0001120 VOLUME 483681.135 3755223.125
 LOCATION L0001121 VOLUME 483708.516 3755223.060
 LOCATION L0001122 VOLUME 483735.898 3755222.995
 LOCATION L0001123 VOLUME 483763.280 3755222.930
 LOCATION L0001124 VOLUME 483790.662 3755222.864
 LOCATION L0001125 VOLUME 483818.043 3755222.799
 LOCATION L0001126 VOLUME 483845.425 3755222.734
 LOCATION L0001127 VOLUME 483872.807 3755222.669
 LOCATION L0001128 VOLUME 483900.189 3755222.604
 LOCATION L0001129 VOLUME 483927.571 3755222.538
 LOCATION L0001130 VOLUME 483954.952 3755222.473
 LOCATION L0001131 VOLUME 483982.334 3755222.408
 LOCATION L0001132 VOLUME 484009.716 3755222.343
 LOCATION L0001133 VOLUME 484037.098 3755222.278
 LOCATION L0001134 VOLUME 484064.480 3755222.212
 LOCATION L0001135 VOLUME 484091.861 3755222.147
 LOCATION L0001136 VOLUME 484119.243 3755222.082
 LOCATION L0001137 VOLUME 484146.625 3755222.017

LOCATION L0001138 VOLUME 484172.933 3755216.815
 LOCATION L0001139 VOLUME 484199.002 3755209.815
 LOCATION L0001140 VOLUME 484225.071 3755202.815
 LOCATION L0001141 VOLUME 484251.139 3755195.815
 LOCATION L0001142 VOLUME 484277.208 3755188.815
 LOCATION L0001143 VOLUME 484296.052 3755176.131
 LOCATION L0001144 VOLUME 484313.339 3755160.581
 LOCATION L0001145 VOLUME 484330.627 3755145.031
 LOCATION L0001146 VOLUME 484347.914 3755129.481
 LOCATION L0001147 VOLUME 484365.202 3755113.931
 LOCATION L0001148 VOLUME 484386.198 3755100.834
 LOCATION L0001149 VOLUME 484408.166 3755089.126
 LOCATION L0001150 VOLUME 484430.135 3755077.417
 LOCATION L0001151 VOLUME 484452.104 3755065.709
 LOCATION L0001152 VOLUME 484474.073 3755054.001
 LOCATION L0001153 VOLUME 484496.041 3755042.292
 LOCATION L0001154 VOLUME 484516.960 3755036.015
 LOCATION L0001155 VOLUME 484538.561 3755031.640
 LOCATION L0001156 VOLUME 484560.163 3755027.265
 LOCATION L0001157 VOLUME 484581.764 3755022.890
 LOCATION L0001158 VOLUME 484605.898 3755021.348
 LOCATION L0001159 VOLUME 484630.170 3755021.133
 LOCATION L0001160 VOLUME 484654.442 3755020.919
 LOCATION L0001161 VOLUME 484678.715 3755020.705
 LOCATION L0001162 VOLUME 484702.987 3755020.490
 LOCATION L0001163 VOLUME 484727.259 3755020.276
 LOCATION L0001164 VOLUME 484751.532 3755020.062
 LOCATION L0001165 VOLUME 484775.822 3755020.890

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----
 ** LINE Source ID = WDTOT
 ** DESCRSRC
 ** Length of Side = 10.00
 ** Emission Rate = 1.61E-06
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 2
 ** 484781.52, 3755035.53, 0.00, 4.00, 0.0
 ** 484780.87, 3755083.62, 0.00, 4.00, 8.84
 ** -----
 LOCATION L0001166 VOLUME 484781.435 3755040.500
 LOCATION L0001167 VOLUME 484781.188 3755059.500
 LOCATION L0001168 VOLUME 484780.940 3755078.500

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----
 ** LINE Source ID = WDN
 ** DESCRSRC
 ** Length of Side = 10.00
 ** Emission Rate = 1.07E-5
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 3
 ** 484780.22, 3755082.97, 0.00, 4.00, 0.0
 ** 484777.62, 3755376.07, 0.00, 4.00, 8.78
 ** 484799.06, 3755375.42, 0.00, 4.00, 4.99
 ** -----

LOCATION L0001169 VOLUME 484780.174 3755088.000
 LOCATION L0001170 VOLUME 484780.007 3755106.866
 LOCATION L0001171 VOLUME 484779.840 3755125.733
 LOCATION L0001172 VOLUME 484779.673 3755144.600
 LOCATION L0001173 VOLUME 484779.506 3755163.467
 LOCATION L0001174 VOLUME 484779.339 3755182.333
 LOCATION L0001175 VOLUME 484779.172 3755201.200
 LOCATION L0001176 VOLUME 484779.005 3755220.067

LOCATION L0001177 VOLUME 484778.838 3755238.933
 LOCATION L0001178 VOLUME 484778.671 3755257.800
 LOCATION L0001179 VOLUME 484778.504 3755276.667
 LOCATION L0001180 VOLUME 484778.337 3755295.533
 LOCATION L0001181 VOLUME 484778.170 3755314.400
 LOCATION L0001182 VOLUME 484778.003 3755333.267
 LOCATION L0001183 VOLUME 484777.836 3755352.134
 LOCATION L0001184 VOLUME 484777.669 3755371.000
 LOCATION L0001185 VOLUME 484783.345 3755375.867
 LOCATION L0001186 VOLUME 484794.064 3755375.617

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----
 ** LINE Source ID = EACONN
 ** DESCRSRC
 ** Length of Side = 14.00
 ** Emission Rate = 9.27E-06
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 2
 ** 485277.37, 3755024.48, 0.00, 4.00, 0.0
 ** 484786.06, 3755019.93, 0.00, 4.00, 12.33
 ** -----

LOCATION L0001187 VOLUME 485270.375 3755024.436
 LOCATION L0001188 VOLUME 485243.858 3755024.193
 LOCATION L0001189 VOLUME 485217.341 3755023.950
 LOCATION L0001190 VOLUME 485190.823 3755023.707
 LOCATION L0001191 VOLUME 485164.306 3755023.464
 LOCATION L0001192 VOLUME 485137.788 3755023.222
 LOCATION L0001193 VOLUME 485111.271 3755022.979
 LOCATION L0001194 VOLUME 485084.754 3755022.736
 LOCATION L0001195 VOLUME 485058.236 3755022.493
 LOCATION L0001196 VOLUME 485031.719 3755022.250
 LOCATION L0001197 VOLUME 485005.201 3755022.007
 LOCATION L0001198 VOLUME 484978.684 3755021.764
 LOCATION L0001199 VOLUME 484952.167 3755021.521
 LOCATION L0001200 VOLUME 484925.649 3755021.278
 LOCATION L0001201 VOLUME 484899.132 3755021.036
 LOCATION L0001202 VOLUME 484872.614 3755020.793
 LOCATION L0001203 VOLUME 484846.097 3755020.550
 LOCATION L0001204 VOLUME 484819.580 3755020.307
 LOCATION L0001205 VOLUME 484793.062 3755020.064

** End of Line Source
 ** Source Parameters **
 SRCPARAM NORTH 1.475E-09 4.000 11 1.860
 AREAVERT NORTH 484851.861 3755334.115 484795.898 3755334.215
 AREAVERT NORTH 484793.656 3755354.326 484789.516 3755391.010
 AREAVERT NORTH 484791.656 3755391.005 485116.083 3755390.148
 AREAVERT NORTH 485099.331 3755390.160 485136.349 3755386.791
 AREAVERT NORTH 485222.754 3755374.982 485234.337 3755341.479
 AREAVERT NORTH 485184.092 3755342.300
 SRCPARAM SOUTH 1.614E-09 4.000 10 1.860
 AREAVERT SOUTH 484832.883 3755147.441 484832.883 3755132.927
 AREAVERT SOUTH 484832.775 3755132.927 484834.526 3755092.171
 AREAVERT SOUTH 485198.157 3755095.373 485196.612 3755131.130
 AREAVERT SOUTH 485196.184 3755149.677 485181.290 3755150.857
 AREAVERT SOUTH 485176.151 3755150.296 485174.750 3755149.918
 SRCPARAM L0001052 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001053 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001054 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001055 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001056 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001057 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001058 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001059 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001060 4.88E-07 4.00 12.43 1.86

SRCPARAM L0001061 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001062 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001063 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001064 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001065 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001066 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001067 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001068 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001069 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001070 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001071 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001072 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001073 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001074 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001075 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001076 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001077 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001078 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001079 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001080 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001081 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001082 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001083 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001084 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001085 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001086 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001087 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001088 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001089 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001090 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001091 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001092 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001093 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001094 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001095 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001096 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001097 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001098 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001099 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001100 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001101 5.9474E-07 4.00 6.41 1.86
 SRCPARAM L0001102 5.9474E-07 4.00 7.22 1.86
 SRCPARAM L0001103 5.9474E-07 4.00 7.22 1.86
 SRCPARAM L0001104 5.9474E-07 4.00 7.22 1.86
 SRCPARAM L0001105 5.9474E-07 4.00 7.22 1.86
 SRCPARAM L0001106 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001107 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001108 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001109 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001110 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001111 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001112 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001113 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001114 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001115 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001116 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001117 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001118 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001119 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001120 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001121 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001122 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001123 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001124 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001125 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001126 4.8E-07 4.00 12.74 1.86

SRCPARAM L0001127 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001128 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001129 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001130 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001131 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001132 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001133 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001134 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001135 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001136 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001137 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001138 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001139 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001140 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001141 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001142 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001143 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001144 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001145 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001146 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001147 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001148 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001149 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001150 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001151 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001152 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001153 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001154 4.8E-07 4.00 10.25 1.86
 SRCPARAM L0001155 4.8E-07 4.00 10.25 1.86
 SRCPARAM L0001156 4.8E-07 4.00 10.25 1.86
 SRCPARAM L0001157 4.8E-07 4.00 10.25 1.86
 SRCPARAM L0001158 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001159 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001160 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001161 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001162 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001163 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001164 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001165 4.8E-07 4.00 11.31 1.86
 SRCPARAM L0001166 5.3667E-07 4.00 8.84 1.86
 SRCPARAM L0001167 5.3667E-07 4.00 8.84 1.86
 SRCPARAM L0001168 5.3667E-07 4.00 8.84 1.86
 SRCPARAM L0001169 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001170 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001171 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001172 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001173 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001174 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001175 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001176 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001177 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001178 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001179 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001180 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001181 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001182 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001183 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001184 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001185 5.9444E-07 4.00 4.99 1.86
 SRCPARAM L0001186 5.9444E-07 4.00 4.99 1.86
 SRCPARAM L0001187 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001188 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001189 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001190 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001191 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001192 4.8789E-07 4.00 12.33 1.86

SRCPARAM L0001193 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001194 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001195 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001196 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001197 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001198 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001199 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001200 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001201 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001202 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001203 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001204 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001205 4.8789E-07 4.00 12.33 1.86

** Variable Emissions Type: "By Hour-of-Day"
 ** Variable Emission Scenario: "Scenario 1"
 EMISFACT NORTH HROFDY 8 8 4 4 10 21
 EMISFACT NORTH HROFDY 21 17 17 17 13 8
 EMISFACT NORTH HROFDY 8 13 17 21 21 31
 EMISFACT NORTH HROFDY 42 21 21 38 31 17
 EMISFACT SOUTH HROFDY 8 8 4 4 10 21
 EMISFACT SOUTH HROFDY 21 17 17 17 13 8
 EMISFACT SOUTH HROFDY 8 13 17 21 21 31
 EMISFACT SOUTH HROFDY 42 21 21 38 31 17

** Variable Emissions Type: "By Hour-of-Day"
 ** Variable Emission Scenario: "Scenario 2"
 EMISFACT L0001106 HROFDY 3 3 2 2 4 8
 EMISFACT L0001106 HROFDY 8 7 7 7 5 3
 EMISFACT L0001106 HROFDY 3 5 7 8 8 13
 EMISFACT L0001106 HROFDY 17 8 8 15 13 7
 EMISFACT L0001107 HROFDY 3 3 2 2 4 8
 EMISFACT L0001107 HROFDY 8 7 7 7 5 3
 EMISFACT L0001107 HROFDY 3 5 7 8 8 13
 EMISFACT L0001107 HROFDY 17 8 8 15 13 7
 EMISFACT L0001108 HROFDY 3 3 2 2 4 8
 EMISFACT L0001108 HROFDY 8 7 7 7 5 3
 EMISFACT L0001108 HROFDY 3 5 7 8 8 13
 EMISFACT L0001108 HROFDY 17 8 8 15 13 7
 EMISFACT L0001109 HROFDY 3 3 2 2 4 8
 EMISFACT L0001109 HROFDY 8 7 7 7 5 3
 EMISFACT L0001109 HROFDY 3 5 7 8 8 13
 EMISFACT L0001109 HROFDY 17 8 8 15 13 7
 EMISFACT L0001110 HROFDY 3 3 2 2 4 8
 EMISFACT L0001110 HROFDY 8 7 7 7 5 3
 EMISFACT L0001110 HROFDY 3 5 7 8 8 13
 EMISFACT L0001110 HROFDY 17 8 8 15 13 7
 EMISFACT L0001111 HROFDY 3 3 2 2 4 8
 EMISFACT L0001111 HROFDY 8 7 7 7 5 3
 EMISFACT L0001111 HROFDY 3 5 7 8 8 13
 EMISFACT L0001111 HROFDY 17 8 8 15 13 7
 EMISFACT L0001112 HROFDY 3 3 2 2 4 8
 EMISFACT L0001112 HROFDY 8 7 7 7 5 3
 EMISFACT L0001112 HROFDY 3 5 7 8 8 13
 EMISFACT L0001112 HROFDY 17 8 8 15 13 7
 EMISFACT L0001113 HROFDY 3 3 2 2 4 8
 EMISFACT L0001113 HROFDY 8 7 7 7 5 3
 EMISFACT L0001113 HROFDY 3 5 7 8 8 13
 EMISFACT L0001113 HROFDY 17 8 8 15 13 7
 EMISFACT L0001114 HROFDY 3 3 2 2 4 8
 EMISFACT L0001114 HROFDY 8 7 7 7 5 3
 EMISFACT L0001114 HROFDY 3 5 7 8 8 13
 EMISFACT L0001114 HROFDY 17 8 8 15 13 7
 EMISFACT L0001115 HROFDY 3 3 2 2 4 8
 EMISFACT L0001115 HROFDY 8 7 7 7 5 3
 EMISFACT L0001115 HROFDY 3 5 7 8 8 13

EMISFACT L0001148 HROFDY 17 8 8 15 13 7
 EMISFACT L0001149 HROFDY 3 3 2 2 4 8
 EMISFACT L0001149 HROFDY 8 7 7 7 5 3
 EMISFACT L0001149 HROFDY 3 5 7 8 8 13
 EMISFACT L0001149 HROFDY 17 8 8 15 13 7
 EMISFACT L0001150 HROFDY 3 3 2 2 4 8
 EMISFACT L0001150 HROFDY 8 7 7 7 5 3
 EMISFACT L0001150 HROFDY 3 5 7 8 8 13
 EMISFACT L0001150 HROFDY 17 8 8 15 13 7
 EMISFACT L0001151 HROFDY 3 3 2 2 4 8
 EMISFACT L0001151 HROFDY 8 7 7 7 5 3
 EMISFACT L0001151 HROFDY 3 5 7 8 8 13
 EMISFACT L0001151 HROFDY 17 8 8 15 13 7
 EMISFACT L0001152 HROFDY 3 3 2 2 4 8
 EMISFACT L0001152 HROFDY 8 7 7 7 5 3
 EMISFACT L0001152 HROFDY 3 5 7 8 8 13
 EMISFACT L0001152 HROFDY 17 8 8 15 13 7
 EMISFACT L0001153 HROFDY 3 3 2 2 4 8
 EMISFACT L0001153 HROFDY 8 7 7 7 5 3
 EMISFACT L0001153 HROFDY 3 5 7 8 8 13
 EMISFACT L0001153 HROFDY 17 8 8 15 13 7
 EMISFACT L0001154 HROFDY 3 3 2 2 4 8
 EMISFACT L0001154 HROFDY 8 7 7 7 5 3
 EMISFACT L0001154 HROFDY 3 5 7 8 8 13
 EMISFACT L0001154 HROFDY 17 8 8 15 13 7
 EMISFACT L0001155 HROFDY 3 3 2 2 4 8
 EMISFACT L0001155 HROFDY 8 7 7 7 5 3
 EMISFACT L0001155 HROFDY 3 5 7 8 8 13
 EMISFACT L0001155 HROFDY 17 8 8 15 13 7
 EMISFACT L0001156 HROFDY 3 3 2 2 4 8
 EMISFACT L0001156 HROFDY 8 7 7 7 5 3
 EMISFACT L0001156 HROFDY 3 5 7 8 8 13
 EMISFACT L0001156 HROFDY 17 8 8 15 13 7
 EMISFACT L0001157 HROFDY 3 3 2 2 4 8
 EMISFACT L0001157 HROFDY 8 7 7 7 5 3
 EMISFACT L0001157 HROFDY 3 5 7 8 8 13
 EMISFACT L0001157 HROFDY 17 8 8 15 13 7
 EMISFACT L0001158 HROFDY 3 3 2 2 4 8
 EMISFACT L0001158 HROFDY 8 7 7 7 5 3
 EMISFACT L0001158 HROFDY 3 5 7 8 8 13
 EMISFACT L0001158 HROFDY 17 8 8 15 13 7
 EMISFACT L0001159 HROFDY 3 3 2 2 4 8
 EMISFACT L0001159 HROFDY 8 7 7 7 5 3
 EMISFACT L0001159 HROFDY 3 5 7 8 8 13
 EMISFACT L0001159 HROFDY 17 8 8 15 13 7
 EMISFACT L0001160 HROFDY 3 3 2 2 4 8
 EMISFACT L0001160 HROFDY 8 7 7 7 5 3
 EMISFACT L0001160 HROFDY 3 5 7 8 8 13
 EMISFACT L0001160 HROFDY 17 8 8 15 13 7
 EMISFACT L0001161 HROFDY 3 3 2 2 4 8
 EMISFACT L0001161 HROFDY 8 7 7 7 5 3
 EMISFACT L0001161 HROFDY 3 5 7 8 8 13
 EMISFACT L0001161 HROFDY 17 8 8 15 13 7
 EMISFACT L0001162 HROFDY 3 3 2 2 4 8
 EMISFACT L0001162 HROFDY 8 7 7 7 5 3
 EMISFACT L0001162 HROFDY 3 5 7 8 8 13
 EMISFACT L0001162 HROFDY 17 8 8 15 13 7
 EMISFACT L0001163 HROFDY 3 3 2 2 4 8
 EMISFACT L0001163 HROFDY 8 7 7 7 5 3
 EMISFACT L0001163 HROFDY 3 5 7 8 8 13
 EMISFACT L0001163 HROFDY 17 8 8 15 13 7
 EMISFACT L0001164 HROFDY 3 3 2 2 4 8
 EMISFACT L0001164 HROFDY 8 7 7 7 5 3
 EMISFACT L0001164 HROFDY 3 5 7 8 8 13
 EMISFACT L0001164 HROFDY 17 8 8 15 13 7
 EMISFACT L0001165 HROFDY 3 3 2 2 4 8

EMISFACT L0001165 HROFDY 8 7 7 7 5 3
 EMISFACT L0001165 HROFDY 3 5 7 8 8 13
 EMISFACT L0001165 HROFDY 17 8 8 15 13 7

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 3"

EMISFACT L0001166 HROFDY 8 8 4 4 10 21
 EMISFACT L0001166 HROFDY 21 17 17 17 13 8
 EMISFACT L0001166 HROFDY 8 13 17 21 21 31
 EMISFACT L0001166 HROFDY 42 21 21 38 31 17
 EMISFACT L0001167 HROFDY 8 8 4 4 10 21
 EMISFACT L0001167 HROFDY 21 17 17 17 13 8
 EMISFACT L0001167 HROFDY 8 13 17 21 21 31
 EMISFACT L0001167 HROFDY 42 21 21 38 31 17
 EMISFACT L0001168 HROFDY 8 8 4 4 10 21
 EMISFACT L0001168 HROFDY 21 17 17 17 13 8
 EMISFACT L0001168 HROFDY 8 13 17 21 21 31
 EMISFACT L0001168 HROFDY 42 21 21 38 31 17
 EMISFACT L0001082 HROFDY 8 8 4 4 10 21
 EMISFACT L0001082 HROFDY 21 17 17 17 13 8
 EMISFACT L0001082 HROFDY 8 13 17 21 21 31
 EMISFACT L0001082 HROFDY 42 21 21 38 31 17
 EMISFACT L0001083 HROFDY 8 8 4 4 10 21
 EMISFACT L0001083 HROFDY 21 17 17 17 13 8
 EMISFACT L0001083 HROFDY 8 13 17 21 21 31
 EMISFACT L0001083 HROFDY 42 21 21 38 31 17
 EMISFACT L0001084 HROFDY 8 8 4 4 10 21
 EMISFACT L0001084 HROFDY 21 17 17 17 13 8
 EMISFACT L0001084 HROFDY 8 13 17 21 21 31
 EMISFACT L0001084 HROFDY 42 21 21 38 31 17
 EMISFACT L0001085 HROFDY 8 8 4 4 10 21
 EMISFACT L0001085 HROFDY 21 17 17 17 13 8
 EMISFACT L0001085 HROFDY 8 13 17 21 21 31
 EMISFACT L0001085 HROFDY 42 21 21 38 31 17
 EMISFACT L0001086 HROFDY 8 8 4 4 10 21
 EMISFACT L0001086 HROFDY 21 17 17 17 13 8
 EMISFACT L0001086 HROFDY 8 13 17 21 21 31
 EMISFACT L0001086 HROFDY 42 21 21 38 31 17

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 4"

EMISFACT L0001169 HROFDY 4 4 2 2 5 10
 EMISFACT L0001169 HROFDY 10 8 8 8 6 4
 EMISFACT L0001169 HROFDY 4 6 8 10 10 16
 EMISFACT L0001169 HROFDY 21 10 10 19 16 8
 EMISFACT L0001170 HROFDY 4 4 2 2 5 10
 EMISFACT L0001170 HROFDY 10 8 8 8 6 4
 EMISFACT L0001170 HROFDY 4 6 8 10 10 16
 EMISFACT L0001170 HROFDY 21 10 10 19 16 8
 EMISFACT L0001171 HROFDY 4 4 2 2 5 10
 EMISFACT L0001171 HROFDY 10 8 8 8 6 4
 EMISFACT L0001171 HROFDY 4 6 8 10 10 16
 EMISFACT L0001171 HROFDY 21 10 10 19 16 8
 EMISFACT L0001172 HROFDY 4 4 2 2 5 10
 EMISFACT L0001172 HROFDY 10 8 8 8 6 4
 EMISFACT L0001172 HROFDY 4 6 8 10 10 16
 EMISFACT L0001172 HROFDY 21 10 10 19 16 8
 EMISFACT L0001173 HROFDY 4 4 2 2 5 10
 EMISFACT L0001173 HROFDY 10 8 8 8 6 4
 EMISFACT L0001173 HROFDY 4 6 8 10 10 16
 EMISFACT L0001173 HROFDY 21 10 10 19 16 8
 EMISFACT L0001174 HROFDY 4 4 2 2 5 10
 EMISFACT L0001174 HROFDY 10 8 8 8 6 4
 EMISFACT L0001174 HROFDY 4 6 8 10 10 16
 EMISFACT L0001174 HROFDY 21 10 10 19 16 8
 EMISFACT L0001175 HROFDY 4 4 2 2 5 10

EMISFACT L0001190 HROFDY 25 12 12 22 19 10
 EMISFACT L0001191 HROFDY 5 5 2 2 6 12
 EMISFACT L0001191 HROFDY 12 10 10 10 7 5
 EMISFACT L0001191 HROFDY 5 7 10 12 12 19
 EMISFACT L0001191 HROFDY 25 12 12 22 19 10
 EMISFACT L0001192 HROFDY 5 5 2 2 6 12
 EMISFACT L0001192 HROFDY 12 10 10 10 7 5
 EMISFACT L0001192 HROFDY 5 7 10 12 12 19
 EMISFACT L0001192 HROFDY 25 12 12 22 19 10
 EMISFACT L0001193 HROFDY 5 5 2 2 6 12
 EMISFACT L0001193 HROFDY 12 10 10 10 7 5
 EMISFACT L0001193 HROFDY 5 7 10 12 12 19
 EMISFACT L0001193 HROFDY 25 12 12 22 19 10
 EMISFACT L0001194 HROFDY 5 5 2 2 6 12
 EMISFACT L0001194 HROFDY 12 10 10 10 7 5
 EMISFACT L0001194 HROFDY 5 7 10 12 12 19
 EMISFACT L0001194 HROFDY 25 12 12 22 19 10
 EMISFACT L0001195 HROFDY 5 5 2 2 6 12
 EMISFACT L0001195 HROFDY 12 10 10 10 7 5
 EMISFACT L0001195 HROFDY 5 7 10 12 12 19
 EMISFACT L0001195 HROFDY 25 12 12 22 19 10
 EMISFACT L0001196 HROFDY 5 5 2 2 6 12
 EMISFACT L0001196 HROFDY 12 10 10 10 7 5
 EMISFACT L0001196 HROFDY 5 7 10 12 12 19
 EMISFACT L0001196 HROFDY 25 12 12 22 19 10
 EMISFACT L0001197 HROFDY 5 5 2 2 6 12
 EMISFACT L0001197 HROFDY 12 10 10 10 7 5
 EMISFACT L0001197 HROFDY 5 7 10 12 12 19
 EMISFACT L0001197 HROFDY 25 12 12 22 19 10
 EMISFACT L0001198 HROFDY 5 5 2 2 6 12
 EMISFACT L0001198 HROFDY 12 10 10 10 7 5
 EMISFACT L0001198 HROFDY 5 7 10 12 12 19
 EMISFACT L0001198 HROFDY 25 12 12 22 19 10
 EMISFACT L0001199 HROFDY 5 5 2 2 6 12
 EMISFACT L0001199 HROFDY 12 10 10 10 7 5
 EMISFACT L0001199 HROFDY 5 7 10 12 12 19
 EMISFACT L0001199 HROFDY 25 12 12 22 19 10
 EMISFACT L0001200 HROFDY 5 5 2 2 6 12
 EMISFACT L0001200 HROFDY 12 10 10 10 7 5
 EMISFACT L0001200 HROFDY 5 7 10 12 12 19
 EMISFACT L0001200 HROFDY 25 12 12 22 19 10
 EMISFACT L0001201 HROFDY 5 5 2 2 6 12
 EMISFACT L0001201 HROFDY 12 10 10 10 7 5
 EMISFACT L0001201 HROFDY 5 7 10 12 12 19
 EMISFACT L0001201 HROFDY 25 12 12 22 19 10
 EMISFACT L0001202 HROFDY 5 5 2 2 6 12
 EMISFACT L0001202 HROFDY 12 10 10 10 7 5
 EMISFACT L0001202 HROFDY 5 7 10 12 12 19
 EMISFACT L0001202 HROFDY 25 12 12 22 19 10
 EMISFACT L0001203 HROFDY 5 5 2 2 6 12
 EMISFACT L0001203 HROFDY 12 10 10 10 7 5
 EMISFACT L0001203 HROFDY 5 7 10 12 12 19
 EMISFACT L0001203 HROFDY 25 12 12 22 19 10
 EMISFACT L0001204 HROFDY 5 5 2 2 6 12
 EMISFACT L0001204 HROFDY 12 10 10 10 7 5
 EMISFACT L0001204 HROFDY 5 7 10 12 12 19
 EMISFACT L0001204 HROFDY 25 12 12 22 19 10
 EMISFACT L0001205 HROFDY 5 5 2 2 6 12
 EMISFACT L0001205 HROFDY 12 10 10 10 7 5
 EMISFACT L0001205 HROFDY 5 7 10 12 12 19
 EMISFACT L0001205 HROFDY 25 12 12 22 19 10
 SRCGROUP ALL
 SO FINISHED
 **

 ** ISCS3 Receptor Pathway

 **
 **
 RE STARTING
 ** DESCRREC "UPOLI" "Receptors generated from Uniform Polar Grid"
 DISCCART 485024.23 3755540.51 1.50
 DISCCART 485024.23 3755640.51 1.50
 DISCCART 485024.23 3755740.51 1.50
 DISCCART 485024.23 3755840.51 1.50
 DISCCART 485024.23 3755940.51 1.50
 DISCCART 485024.23 3756040.51 1.50
 DISCCART 485024.23 3756140.51 1.50
 DISCCART 485024.23 3756240.51 1.50
 DISCCART 485024.23 3756340.51 1.50
 DISCCART 485024.23 3756440.51 1.50
 DISCCART 485024.23 3756540.51 1.50
 DISCCART 485024.23 3756640.51 1.50
 DISCCART 485024.23 3756740.51 1.50
 DISCCART 485024.23 3756840.51 1.50
 DISCCART 485024.23 3756940.51 1.50
 DISCCART 485024.23 3757040.51 1.50
 DISCCART 485024.23 3757140.51 1.50
 DISCCART 485024.23 3757240.51 1.50
 DISCCART 485024.23 3757340.51 1.50
 DISCCART 485024.23 3757440.51 1.50
 DISCCART 485024.23 3757540.51 1.50
 DISCCART 485024.23 3757640.51 1.50
 DISCCART 485024.23 3757740.51 1.50
 DISCCART 485024.23 3757840.51 1.50
 DISCCART 485024.23 3757940.51 1.50
 DISCCART 485024.23 3758040.51 1.50
 DISCCART 485024.23 3758140.51 1.50
 DISCCART 485024.23 3758240.51 1.50
 DISCCART 485076.32 3755535.95 1.50
 DISCCART 485093.69 3755634.43 1.50
 DISCCART 485111.05 3755732.91 1.50
 DISCCART 485128.42 3755831.39 1.50
 DISCCART 485145.78 3755929.88 1.50
 DISCCART 485163.15 3756028.36 1.50
 DISCCART 485180.51 3756126.84 1.50
 DISCCART 485197.88 3756225.32 1.50
 DISCCART 485215.24 3756323.80 1.50
 DISCCART 485232.61 3756422.28 1.50
 DISCCART 485249.97 3756520.76 1.50
 DISCCART 485267.34 3756619.24 1.50
 DISCCART 485284.70 3756717.72 1.50
 DISCCART 485302.07 3756816.20 1.50
 DISCCART 485319.43 3756914.68 1.50
 DISCCART 485336.80 3757013.16 1.50
 DISCCART 485354.16 3757111.64 1.50
 DISCCART 485371.53 3757210.13 1.50
 DISCCART 485388.89 3757308.61 1.50
 DISCCART 485406.26 3757407.09 1.50
 DISCCART 485423.62 3757505.57 1.50
 DISCCART 485440.99 3757604.05 1.50
 DISCCART 485458.35 3757702.53 1.50
 DISCCART 485475.72 3757801.01 1.50
 DISCCART 485493.08 3757899.49 1.50
 DISCCART 485510.44 3757997.97 1.50
 DISCCART 485527.81 3758096.45 1.50
 DISCCART 485545.17 3758194.93 1.50
 DISCCART 485126.84 3755522.42 1.50
 DISCCART 485161.04 3755616.39 1.50
 DISCCART 485195.24 3755710.36 1.50
 DISCCART 485229.44 3755804.33 1.50
 DISCCART 485263.64 3755898.29 1.50

DISCCART 485297.85 3755992.26 1.50
DISCCART 485332.05 3756086.23 1.50
DISCCART 485366.25 3756180.20 1.50
DISCCART 485400.45 3756274.17 1.50
DISCCART 485434.65 3756368.14 1.50
DISCCART 485468.86 3756462.11 1.50
DISCCART 485503.06 3756556.08 1.50
DISCCART 485537.26 3756650.05 1.50
DISCCART 485571.46 3756744.02 1.50
DISCCART 485605.66 3756837.99 1.50
DISCCART 485639.87 3756931.96 1.50
DISCCART 485674.07 3757025.93 1.50
DISCCART 485708.27 3757119.90 1.50
DISCCART 485742.47 3757213.86 1.50
DISCCART 485776.67 3757307.83 1.50
DISCCART 485810.88 3757401.80 1.50
DISCCART 485845.08 3757495.77 1.50
DISCCART 485879.28 3757589.74 1.50
DISCCART 485913.48 3757683.71 1.50
DISCCART 485947.68 3757777.68 1.50
DISCCART 485981.89 3757871.65 1.50
DISCCART 486016.09 3757965.62 1.50
DISCCART 486050.29 3758059.59 1.50
DISCCART 485174.23 3755500.32 1.50
DISCCART 485224.23 3755586.92 1.50
DISCCART 485274.23 3755673.52 1.50
DISCCART 485324.23 3755760.13 1.50
DISCCART 485374.23 3755846.73 1.50
DISCCART 485424.23 3755933.33 1.50
DISCCART 485474.23 3756019.93 1.50
DISCCART 485524.23 3756106.54 1.50
DISCCART 485574.23 3756193.14 1.50
DISCCART 485624.23 3756279.74 1.50
DISCCART 485674.23 3756366.34 1.50
DISCCART 485724.23 3756452.95 1.50
DISCCART 485774.23 3756539.55 1.50
DISCCART 485824.23 3756626.15 1.50
DISCCART 485874.23 3756712.75 1.50
DISCCART 485924.23 3756799.36 1.50
DISCCART 485974.23 3756885.96 1.50
DISCCART 486024.23 3756972.56 1.50
DISCCART 486074.23 3757059.16 1.50
DISCCART 486124.23 3757145.77 1.50
DISCCART 486174.23 3757232.37 1.50
DISCCART 486224.23 3757318.97 1.50
DISCCART 486274.23 3757405.57 1.50
DISCCART 486324.23 3757492.18 1.50
DISCCART 486374.23 3757578.78 1.50
DISCCART 486424.23 3757665.38 1.50
DISCCART 486474.23 3757751.98 1.50
DISCCART 486524.23 3757838.59 1.50
DISCCART 485217.07 3755470.32 1.50
DISCCART 485281.35 3755546.93 1.50
DISCCART 485345.62 3755623.53 1.50
DISCCART 485409.90 3755700.14 1.50
DISCCART 485474.18 3755776.74 1.50
DISCCART 485538.46 3755853.35 1.50
DISCCART 485602.74 3755929.95 1.50
DISCCART 485667.02 3756006.55 1.50
DISCCART 485731.30 3756083.16 1.50
DISCCART 485795.58 3756159.76 1.50
DISCCART 485859.85 3756236.37 1.50
DISCCART 485924.13 3756312.97 1.50
DISCCART 485988.41 3756389.58 1.50
DISCCART 486052.69 3756466.18 1.50
DISCCART 486116.97 3756542.79 1.50

DISCCART 486181.25 3756619.39 1.50
DISCCART 486245.53 3756695.99 1.50
DISCCART 486309.81 3756772.60 1.50
DISCCART 486374.08 3756849.20 1.50
DISCCART 486438.36 3756925.81 1.50
DISCCART 486502.64 3757002.41 1.50
DISCCART 486566.92 3757079.02 1.50
DISCCART 486631.20 3757155.62 1.50
DISCCART 486695.48 3757232.23 1.50
DISCCART 486759.76 3757308.83 1.50
DISCCART 486824.04 3757385.43 1.50
DISCCART 486888.31 3757462.04 1.50
DISCCART 486952.59 3757538.64 1.50
DISCCART 485330.65 3755497.63 1.50
DISCCART 485407.25 3755561.90 1.50
DISCCART 485483.86 3755626.18 1.50
DISCCART 485560.46 3755690.46 1.50
DISCCART 485637.07 3755754.74 1.50
DISCCART 485713.67 3755819.02 1.50
DISCCART 485790.27 3755883.30 1.50
DISCCART 485866.88 3755947.58 1.50
DISCCART 485943.48 3756011.86 1.50
DISCCART 486020.09 3756076.13 1.50
DISCCART 486096.69 3756140.41 1.50
DISCCART 486173.30 3756204.69 1.50
DISCCART 486249.90 3756268.97 1.50
DISCCART 486326.51 3756333.25 1.50
DISCCART 486403.11 3756397.53 1.50
DISCCART 486479.71 3756461.81 1.50
DISCCART 486556.32 3756526.09 1.50
DISCCART 486632.92 3756590.36 1.50
DISCCART 486709.53 3756654.64 1.50
DISCCART 486786.13 3756718.92 1.50
DISCCART 486862.74 3756783.20 1.50
DISCCART 486939.34 3756847.48 1.50
DISCCART 487015.95 3756911.76 1.50
DISCCART 487092.55 3756976.04 1.50
DISCCART 487169.15 3757040.32 1.50
DISCCART 487245.76 3757104.59 1.50
DISCCART 487322.36 3757168.87 1.50
DISCCART 485457.24 3755490.51 1.50
DISCCART 485543.85 3755540.51 1.50
DISCCART 485630.45 3755590.51 1.50
DISCCART 485717.05 3755640.51 1.50
DISCCART 485803.65 3755690.51 1.50
DISCCART 485890.26 3755740.51 1.50
DISCCART 485976.86 3755790.51 1.50
DISCCART 486063.46 3755840.51 1.50
DISCCART 486150.06 3755890.51 1.50
DISCCART 486236.67 3755940.51 1.50
DISCCART 486323.27 3755990.51 1.50
DISCCART 486409.87 3756040.51 1.50
DISCCART 486496.47 3756090.51 1.50
DISCCART 486583.08 3756140.51 1.50
DISCCART 486669.68 3756190.51 1.50
DISCCART 486756.28 3756240.51 1.50
DISCCART 486842.88 3756290.51 1.50
DISCCART 486929.49 3756340.51 1.50
DISCCART 487016.09 3756390.51 1.50
DISCCART 487102.69 3756440.51 1.50
DISCCART 487189.29 3756490.51 1.50
DISCCART 487275.90 3756540.51 1.50
DISCCART 487362.50 3756590.51 1.50
DISCCART 487449.10 3756640.51 1.50
DISCCART 487535.70 3756690.51 1.50
DISCCART 487622.31 3756740.51 1.50

DISCCART 485400.11 3755377.32 1.50
DISCCART 485494.08 3755411.52 1.50
DISCCART 485268.92 3755001.94 1.50
DISCCART 485682.01 3755479.92 1.50
DISCCART 485775.98 3755514.13 1.50
DISCCART 485869.95 3755548.33 1.50
DISCCART 485963.92 3755582.53 1.50
DISCCART 486057.89 3755616.73 1.50
DISCCART 486151.86 3755650.93 1.50
DISCCART 486245.83 3755685.14 1.50
DISCCART 486339.80 3755719.34 1.50
DISCCART 486433.77 3755753.54 1.50
DISCCART 486527.74 3755787.74 1.50
DISCCART 486621.71 3755821.94 1.50
DISCCART 486715.68 3755856.15 1.50
DISCCART 486809.65 3755890.35 1.50
DISCCART 486903.62 3755924.55 1.50
DISCCART 486997.58 3755958.75 1.50
DISCCART 487091.55 3755992.95 1.50
DISCCART 487185.52 3756027.16 1.50
DISCCART 487279.49 3756061.36 1.50
DISCCART 487373.46 3756095.56 1.50
DISCCART 487467.43 3756129.76 1.50
DISCCART 487561.40 3756163.96 1.50
DISCCART 487655.37 3756198.17 1.50
DISCCART 487749.34 3756232.37 1.50
DISCCART 487843.31 3756266.57 1.50
DISCCART 485418.15 3755309.97 1.50
DISCCART 485615.11 3755344.70 1.50
DISCCART 485713.60 3755362.06 1.50
DISCCART 485812.08 3755379.43 1.50
DISCCART 485910.56 3755396.79 1.50
DISCCART 486009.04 3755414.16 1.50
DISCCART 486107.52 3755431.52 1.50
DISCCART 486206.00 3755448.89 1.50
DISCCART 486304.48 3755466.25 1.50
DISCCART 486402.96 3755483.62 1.50
DISCCART 486501.44 3755500.98 1.50
DISCCART 486599.92 3755518.35 1.50
DISCCART 486698.40 3755535.71 1.50
DISCCART 486796.88 3755553.08 1.50
DISCCART 486895.36 3755570.44 1.50
DISCCART 486993.85 3755587.81 1.50
DISCCART 487092.33 3755605.17 1.50
DISCCART 487190.81 3755622.54 1.50
DISCCART 487289.29 3755639.90 1.50
DISCCART 487387.77 3755657.27 1.50
DISCCART 487486.25 3755674.63 1.50
DISCCART 487584.73 3755692.00 1.50
DISCCART 487683.21 3755709.36 1.50
DISCCART 487781.69 3755726.72 1.50
DISCCART 487880.17 3755744.09 1.50
DISCCART 487978.65 3755761.45 1.50
DISCCART 485324.23 3755240.51 1.50
DISCCART 485424.23 3755240.51 1.50
DISCCART 485524.23 3755240.51 1.50
DISCCART 485624.23 3755240.51 1.50
DISCCART 485724.23 3755240.51 1.50
DISCCART 485824.23 3755240.51 1.50
DISCCART 485924.23 3755240.51 1.50
DISCCART 486024.23 3755240.51 1.50
DISCCART 486124.23 3755240.51 1.50
DISCCART 486224.23 3755240.51 1.50
DISCCART 486324.23 3755240.51 1.50
DISCCART 486424.23 3755240.51 1.50
DISCCART 486524.23 3755240.51 1.50

DISCCART 486624.23 3755240.51 1.50
DISCCART 486724.23 3755240.51 1.50
DISCCART 486824.23 3755240.51 1.50
DISCCART 486924.23 3755240.51 1.50
DISCCART 487024.23 3755240.51 1.50
DISCCART 487124.23 3755240.51 1.50
DISCCART 487224.23 3755240.51 1.50
DISCCART 487324.23 3755240.51 1.50
DISCCART 487424.23 3755240.51 1.50
DISCCART 487524.23 3755240.51 1.50
DISCCART 487624.23 3755240.51 1.50
DISCCART 487724.23 3755240.51 1.50
DISCCART 487824.23 3755240.51 1.50
DISCCART 487924.23 3755240.51 1.50
DISCCART 488024.23 3755240.51 1.50
DISCCART 485418.15 3755171.05 1.50
DISCCART 485615.11 3755136.32 1.50
DISCCART 485713.60 3755118.96 1.50
DISCCART 485812.08 3755101.59 1.50
DISCCART 485910.56 3755084.23 1.50
DISCCART 486009.04 3755066.86 1.50
DISCCART 486107.52 3755049.50 1.50
DISCCART 486206.00 3755032.13 1.50
DISCCART 486304.48 3755014.77 1.50
DISCCART 486402.96 3754997.40 1.50
DISCCART 486501.44 3754980.04 1.50
DISCCART 486599.92 3754962.67 1.50
DISCCART 486698.40 3754945.31 1.50
DISCCART 486796.88 3754927.94 1.50
DISCCART 486895.36 3754910.58 1.50
DISCCART 486993.85 3754893.21 1.50
DISCCART 487092.33 3754875.85 1.50
DISCCART 487190.81 3754858.48 1.50
DISCCART 487289.29 3754841.12 1.50
DISCCART 487387.77 3754823.75 1.50
DISCCART 487486.25 3754806.39 1.50
DISCCART 487584.73 3754789.02 1.50
DISCCART 487683.21 3754771.66 1.50
DISCCART 487781.69 3754754.30 1.50
DISCCART 487880.17 3754736.93 1.50
DISCCART 487978.65 3754719.57 1.50
DISCCART 485400.11 3755103.70 1.50
DISCCART 485494.08 3755069.50 1.50
DISCCART 485588.05 3755035.30 1.50
DISCCART 485682.01 3755001.10 1.50
DISCCART 485775.98 3754966.89 1.50
DISCCART 485869.95 3754932.69 1.50
DISCCART 485963.92 3754898.49 1.50
DISCCART 486057.89 3754864.29 1.50
DISCCART 486151.86 3754830.09 1.50
DISCCART 486245.83 3754795.88 1.50
DISCCART 486339.80 3754761.68 1.50
DISCCART 486433.77 3754727.48 1.50
DISCCART 486527.74 3754693.28 1.50
DISCCART 486621.71 3754659.08 1.50
DISCCART 486715.68 3754624.87 1.50
DISCCART 486809.65 3754590.67 1.50
DISCCART 486903.62 3754556.47 1.50
DISCCART 486997.58 3754522.27 1.50
DISCCART 487091.55 3754488.07 1.50
DISCCART 487185.52 3754453.86 1.50
DISCCART 487279.49 3754419.66 1.50
DISCCART 487373.46 3754385.46 1.50
DISCCART 487467.43 3754351.26 1.50
DISCCART 487561.40 3754317.06 1.50
DISCCART 487655.37 3754282.85 1.50

DISCCART 487749.34 3754248.65 1.50
DISCCART 487843.31 3754214.45 1.50
DISCCART 485457.24 3754990.51 1.50
DISCCART 485543.85 3754940.51 1.50
DISCCART 485630.45 3754890.51 1.50
DISCCART 485717.05 3754840.51 1.50
DISCCART 485803.65 3754790.51 1.50
DISCCART 485890.26 3754740.51 1.50
DISCCART 485976.86 3754690.51 1.50
DISCCART 486063.46 3754640.51 1.50
DISCCART 486150.06 3754590.51 1.50
DISCCART 486236.67 3754540.51 1.50
DISCCART 486323.27 3754490.51 1.50
DISCCART 486409.87 3754440.51 1.50
DISCCART 486496.47 3754390.51 1.50
DISCCART 486583.08 3754340.51 1.50
DISCCART 486669.68 3754290.51 1.50
DISCCART 486756.28 3754240.51 1.50
DISCCART 486842.88 3754190.51 1.50
DISCCART 486929.49 3754140.51 1.50
DISCCART 487016.09 3754090.51 1.50
DISCCART 487102.69 3754040.51 1.50
DISCCART 487189.29 3753990.51 1.50
DISCCART 487275.90 3753940.51 1.50
DISCCART 487362.50 3753890.51 1.50
DISCCART 487449.10 3753840.51 1.50
DISCCART 487535.70 3753790.51 1.50
DISCCART 487622.31 3753740.51 1.50
DISCCART 485330.65 3754983.39 1.50
DISCCART 485407.25 3754919.12 1.50
DISCCART 485483.86 3754854.84 1.50
DISCCART 485560.46 3754790.56 1.50
DISCCART 485637.07 3754726.28 1.50
DISCCART 485713.67 3754662.00 1.50
DISCCART 485790.27 3754597.72 1.50
DISCCART 485866.88 3754533.44 1.50
DISCCART 485943.48 3754469.16 1.50
DISCCART 486020.09 3754404.89 1.50
DISCCART 486096.69 3754340.61 1.50
DISCCART 486173.30 3754276.33 1.50
DISCCART 486249.90 3754212.05 1.50
DISCCART 486326.51 3754147.77 1.50
DISCCART 486403.11 3754083.49 1.50
DISCCART 486479.71 3754019.21 1.50
DISCCART 486556.32 3753954.93 1.50
DISCCART 486632.92 3753890.66 1.50
DISCCART 486709.53 3753826.38 1.50
DISCCART 486786.13 3753762.10 1.50
DISCCART 486862.74 3753697.82 1.50
DISCCART 486939.34 3753633.54 1.50
DISCCART 487015.95 3753569.26 1.50
DISCCART 487092.55 3753504.98 1.50
DISCCART 487169.15 3753440.70 1.50
DISCCART 487245.76 3753376.43 1.50
DISCCART 487322.36 3753312.15 1.50
DISCCART 485217.07 3755010.70 1.50
DISCCART 485281.35 3754934.09 1.50
DISCCART 485345.62 3754857.49 1.50
DISCCART 485409.90 3754780.88 1.50
DISCCART 485474.18 3754704.28 1.50
DISCCART 485538.46 3754627.67 1.50
DISCCART 485602.74 3754551.07 1.50
DISCCART 485667.02 3754474.47 1.50
DISCCART 485731.30 3754397.86 1.50
DISCCART 485795.58 3754321.26 1.50
DISCCART 485859.85 3754244.65 1.50

DISCCART 485924.13 3754168.05 1.50
DISCCART 485988.41 3754091.44 1.50
DISCCART 486052.69 3754014.84 1.50
DISCCART 486116.97 3753938.23 1.50
DISCCART 486181.25 3753861.63 1.50
DISCCART 486245.53 3753785.03 1.50
DISCCART 486309.81 3753708.42 1.50
DISCCART 486374.08 3753631.82 1.50
DISCCART 486438.36 3753555.21 1.50
DISCCART 486502.64 3753478.61 1.50
DISCCART 486566.92 3753402.00 1.50
DISCCART 486631.20 3753325.40 1.50
DISCCART 486695.48 3753248.79 1.50
DISCCART 486759.76 3753172.19 1.50
DISCCART 486824.04 3753095.59 1.50
DISCCART 486888.31 3753018.98 1.50
DISCCART 486952.59 3752942.38 1.50
DISCCART 485174.23 3754980.70 1.50
DISCCART 485224.23 3754894.10 1.50
DISCCART 485274.23 3754807.50 1.50
DISCCART 485324.23 3754720.89 1.50
DISCCART 485374.23 3754634.29 1.50
DISCCART 485424.23 3754547.69 1.50
DISCCART 485474.23 3754461.09 1.50
DISCCART 485524.23 3754374.48 1.50
DISCCART 485574.23 3754287.88 1.50
DISCCART 485624.23 3754201.28 1.50
DISCCART 485674.23 3754114.68 1.50
DISCCART 485724.23 3754028.07 1.50
DISCCART 485774.23 3753941.47 1.50
DISCCART 485824.23 3753854.87 1.50
DISCCART 485874.23 3753768.27 1.50
DISCCART 485924.23 3753681.66 1.50
DISCCART 485974.23 3753595.06 1.50
DISCCART 486024.23 3753508.46 1.50
DISCCART 486074.23 3753421.86 1.50
DISCCART 486124.23 3753335.25 1.50
DISCCART 486174.23 3753248.65 1.50
DISCCART 486224.23 3753162.05 1.50
DISCCART 486274.23 3753075.45 1.50
DISCCART 486324.23 3752988.84 1.50
DISCCART 486374.23 3752902.24 1.50
DISCCART 486424.23 3752815.64 1.50
DISCCART 486474.23 3752729.04 1.50
DISCCART 486524.23 3752642.43 1.50
DISCCART 485126.84 3754958.60 1.50
DISCCART 485161.04 3754864.63 1.50
DISCCART 485195.24 3754770.66 1.50
DISCCART 485229.44 3754676.69 1.50
DISCCART 485263.64 3754582.73 1.50
DISCCART 485297.85 3754488.76 1.50
DISCCART 485332.05 3754394.79 1.50
DISCCART 485366.25 3754300.82 1.50
DISCCART 485400.45 3754206.85 1.50
DISCCART 485434.65 3754112.88 1.50
DISCCART 485468.86 3754018.91 1.50
DISCCART 485503.06 3753924.94 1.50
DISCCART 485537.26 3753830.97 1.50
DISCCART 485571.46 3753737.00 1.50
DISCCART 485605.66 3753643.03 1.50
DISCCART 485639.87 3753549.06 1.50
DISCCART 485674.07 3753455.09 1.50
DISCCART 485708.27 3753361.12 1.50
DISCCART 485742.47 3753267.16 1.50
DISCCART 485776.67 3753173.19 1.50
DISCCART 485810.88 3753079.22 1.50

DISCCART 485845.08 3752985.25 1.50
DISCCART 485879.28 3752891.28 1.50
DISCCART 485913.48 3752797.31 1.50
DISCCART 485947.68 3752703.34 1.50
DISCCART 485981.89 3752609.37 1.50
DISCCART 486016.09 3752515.40 1.50
DISCCART 486050.29 3752421.43 1.50
DISCCART 485076.32 3754945.07 1.50
DISCCART 485093.69 3754846.59 1.50
DISCCART 485111.05 3754748.11 1.50
DISCCART 485128.42 3754649.63 1.50
DISCCART 485145.78 3754551.14 1.50
DISCCART 485163.15 3754452.66 1.50
DISCCART 485180.51 3754354.18 1.50
DISCCART 485197.88 3754255.70 1.50
DISCCART 485215.24 3754157.22 1.50
DISCCART 485232.61 3754058.74 1.50
DISCCART 485249.97 3753960.26 1.50
DISCCART 485267.34 3753861.78 1.50
DISCCART 485284.70 3753763.30 1.50
DISCCART 485302.07 3753664.82 1.50
DISCCART 485319.43 3753566.34 1.50
DISCCART 485336.80 3753467.86 1.50
DISCCART 485354.16 3753369.38 1.50
DISCCART 485371.53 3753270.89 1.50
DISCCART 485388.89 3753172.41 1.50
DISCCART 485406.26 3753073.93 1.50
DISCCART 485423.62 3752975.45 1.50
DISCCART 485440.99 3752876.97 1.50
DISCCART 485458.35 3752778.49 1.50
DISCCART 485475.72 3752680.01 1.50
DISCCART 485493.08 3752581.53 1.50
DISCCART 485510.44 3752483.05 1.50
DISCCART 485527.81 3752384.57 1.50
DISCCART 485545.17 3752286.09 1.50
DISCCART 485024.23 3754940.51 1.50
DISCCART 485024.23 3754840.51 1.50
DISCCART 485024.23 3754740.51 1.50
DISCCART 485024.23 3754640.51 1.50
DISCCART 485024.23 3754540.51 1.50
DISCCART 485024.23 3754440.51 1.50
DISCCART 485024.23 3754340.51 1.50
DISCCART 485024.23 3754240.51 1.50
DISCCART 485024.23 3754140.51 1.50
DISCCART 485024.23 3754040.51 1.50
DISCCART 485024.23 3753940.51 1.50
DISCCART 485024.23 3753840.51 1.50
DISCCART 485024.23 3753740.51 1.50
DISCCART 485024.23 3753640.51 1.50
DISCCART 485024.23 3753540.51 1.50
DISCCART 485024.23 3753440.51 1.50
DISCCART 485024.23 3753340.51 1.50
DISCCART 485024.23 3753240.51 1.50
DISCCART 485024.23 3753140.51 1.50
DISCCART 485024.23 3753040.51 1.50
DISCCART 485024.23 3752940.51 1.50
DISCCART 485024.23 3752840.51 1.50
DISCCART 485024.23 3752740.51 1.50
DISCCART 485024.23 3752640.51 1.50
DISCCART 485024.23 3752540.51 1.50
DISCCART 485024.23 3752440.51 1.50
DISCCART 485024.23 3752340.51 1.50
DISCCART 485024.23 3752240.51 1.50
DISCCART 484972.14 3754945.07 1.50
DISCCART 484954.77 3754846.59 1.50
DISCCART 484937.41 3754748.11 1.50

DISCCART 484920.04 3754649.63 1.50
DISCCART 484902.68 3754551.14 1.50
DISCCART 484885.31 3754452.66 1.50
DISCCART 484867.95 3754354.18 1.50
DISCCART 484850.58 3754255.70 1.50
DISCCART 484833.22 3754157.22 1.50
DISCCART 484815.85 3754058.74 1.50
DISCCART 484798.49 3753960.26 1.50
DISCCART 484781.12 3753861.78 1.50
DISCCART 484763.76 3753763.30 1.50
DISCCART 484746.39 3753664.82 1.50
DISCCART 484729.03 3753566.34 1.50
DISCCART 484711.66 3753467.86 1.50
DISCCART 484694.30 3753369.38 1.50
DISCCART 484676.93 3753270.89 1.50
DISCCART 484659.57 3753172.41 1.50
DISCCART 484642.20 3753073.93 1.50
DISCCART 484624.84 3752975.45 1.50
DISCCART 484607.47 3752876.97 1.50
DISCCART 484590.11 3752778.49 1.50
DISCCART 484572.74 3752680.01 1.50
DISCCART 484555.38 3752581.53 1.50
DISCCART 484538.02 3752483.05 1.50
DISCCART 484520.65 3752384.57 1.50
DISCCART 484503.29 3752286.09 1.50
DISCCART 484921.62 3754958.60 1.50
DISCCART 484887.42 3754864.63 1.50
DISCCART 484853.22 3754770.66 1.50
DISCCART 484819.02 3754676.69 1.50
DISCCART 484784.82 3754582.73 1.50
DISCCART 484750.61 3754488.76 1.50
DISCCART 484716.41 3754394.79 1.50
DISCCART 484682.21 3754300.82 1.50
DISCCART 484648.01 3754206.85 1.50
DISCCART 484613.81 3754112.88 1.50
DISCCART 484579.60 3754018.91 1.50
DISCCART 484545.40 3753924.94 1.50
DISCCART 484511.20 3753830.97 1.50
DISCCART 484477.00 3753737.00 1.50
DISCCART 484442.80 3753643.03 1.50
DISCCART 484408.59 3753549.06 1.50
DISCCART 484374.39 3753455.09 1.50
DISCCART 484340.19 3753361.12 1.50
DISCCART 484305.99 3753267.16 1.50
DISCCART 484271.79 3753173.19 1.50
DISCCART 484237.58 3753079.22 1.50
DISCCART 484203.38 3752985.25 1.50
DISCCART 484169.18 3752891.28 1.50
DISCCART 484134.98 3752797.31 1.50
DISCCART 484100.78 3752703.34 1.50
DISCCART 484066.57 3752609.37 1.50
DISCCART 484032.37 3752515.40 1.50
DISCCART 483998.17 3752421.43 1.50
DISCCART 484874.23 3754980.70 1.50
DISCCART 484824.23 3754894.10 1.50
DISCCART 484774.23 3754807.50 1.50
DISCCART 484724.23 3754720.89 1.50
DISCCART 484674.23 3754634.29 1.50
DISCCART 484624.23 3754547.69 1.50
DISCCART 484574.23 3754461.09 1.50
DISCCART 484524.23 3754374.48 1.50
DISCCART 484474.23 3754287.88 1.50
DISCCART 484424.23 3754201.28 1.50
DISCCART 484374.23 3754114.68 1.50
DISCCART 484324.23 3754028.07 1.50
DISCCART 484274.23 3753941.47 1.50

DISCCART 484224.23 3753854.87 1.50
DISCCART 484174.23 3753768.27 1.50
DISCCART 484124.23 3753681.66 1.50
DISCCART 484074.23 3753595.06 1.50
DISCCART 484024.23 3753508.46 1.50
DISCCART 483974.23 3753421.86 1.50
DISCCART 483924.23 3753335.25 1.50
DISCCART 483874.23 3753248.65 1.50
DISCCART 483824.23 3753162.05 1.50
DISCCART 483774.23 3753075.45 1.50
DISCCART 483724.23 3752988.84 1.50
DISCCART 483674.23 3752902.24 1.50
DISCCART 483624.23 3752815.64 1.50
DISCCART 483574.23 3752729.04 1.50
DISCCART 483524.23 3752642.43 1.50
DISCCART 484767.11 3754934.09 1.50
DISCCART 484702.84 3754857.49 1.50
DISCCART 484638.56 3754780.88 1.50
DISCCART 484574.28 3754704.28 1.50
DISCCART 484510.00 3754627.67 1.50
DISCCART 484445.72 3754551.07 1.50
DISCCART 484381.44 3754474.47 1.50
DISCCART 484317.16 3754397.86 1.50
DISCCART 484252.88 3754321.26 1.50
DISCCART 484188.61 3754244.65 1.50
DISCCART 484124.33 3754168.05 1.50
DISCCART 484060.05 3754091.44 1.50
DISCCART 483995.77 3754014.84 1.50
DISCCART 483931.49 3753938.23 1.50
DISCCART 483867.21 3753861.63 1.50
DISCCART 483802.93 3753785.03 1.50
DISCCART 483738.65 3753708.42 1.50
DISCCART 483674.38 3753631.82 1.50
DISCCART 483610.10 3753555.21 1.50
DISCCART 483545.82 3753478.61 1.50
DISCCART 483481.54 3753402.00 1.50
DISCCART 483417.26 3753325.40 1.50
DISCCART 483352.98 3753248.79 1.50
DISCCART 483288.70 3753172.19 1.50
DISCCART 483224.42 3753095.59 1.50
DISCCART 483160.15 3753018.98 1.50
DISCCART 483095.87 3752942.38 1.50
DISCCART 484717.81 3754983.39 1.50
DISCCART 484641.21 3754919.12 1.50
DISCCART 484564.60 3754854.84 1.50
DISCCART 484488.00 3754790.56 1.50
DISCCART 484411.39 3754726.28 1.50
DISCCART 484334.79 3754662.00 1.50
DISCCART 484258.19 3754597.72 1.50
DISCCART 484181.58 3754533.44 1.50
DISCCART 484104.98 3754469.16 1.50
DISCCART 484028.37 3754404.89 1.50
DISCCART 483951.77 3754340.61 1.50
DISCCART 483875.16 3754276.33 1.50
DISCCART 483798.56 3754212.05 1.50
DISCCART 483721.95 3754147.77 1.50
DISCCART 483645.35 3754083.49 1.50
DISCCART 483568.75 3754019.21 1.50
DISCCART 483492.14 3753954.93 1.50
DISCCART 483415.54 3753890.66 1.50
DISCCART 483338.93 3753826.38 1.50
DISCCART 483262.33 3753762.10 1.50
DISCCART 483185.72 3753697.82 1.50
DISCCART 483109.12 3753633.54 1.50
DISCCART 483032.51 3753569.26 1.50
DISCCART 482955.91 3753504.98 1.50

DISCCART 482879.31 3753440.70 1.50
DISCCART 482802.70 3753376.43 1.50
DISCCART 482726.10 3753312.15 1.50
DISCCART 484677.82 3755040.51 1.50
DISCCART 484591.22 3754990.51 1.50
DISCCART 484504.61 3754940.51 1.50
DISCCART 484418.01 3754890.51 1.50
DISCCART 484331.41 3754840.51 1.50
DISCCART 484244.81 3754790.51 1.50
DISCCART 484158.20 3754740.51 1.50
DISCCART 484071.60 3754690.51 1.50
DISCCART 483985.00 3754640.51 1.50
DISCCART 483898.40 3754590.51 1.50
DISCCART 483811.79 3754540.51 1.50
DISCCART 483725.19 3754490.51 1.50
DISCCART 483638.59 3754440.51 1.50
DISCCART 483551.99 3754390.51 1.50
DISCCART 483465.38 3754340.51 1.50
DISCCART 483378.78 3754290.51 1.50
DISCCART 483292.18 3754240.51 1.50
DISCCART 483205.58 3754190.51 1.50
DISCCART 483118.97 3754140.51 1.50
DISCCART 483032.37 3754090.51 1.50
DISCCART 482945.77 3754040.51 1.50
DISCCART 482859.17 3753990.51 1.50
DISCCART 482772.56 3753940.51 1.50
DISCCART 482685.96 3753890.51 1.50
DISCCART 482599.36 3753840.51 1.50
DISCCART 482512.76 3753790.51 1.50
DISCCART 482426.15 3753740.51 1.50
DISCCART 484648.35 3755103.70 1.50
DISCCART 484554.38 3755069.50 1.50
DISCCART 484460.41 3755035.30 1.50
DISCCART 484366.45 3755001.10 1.50
DISCCART 484272.48 3754966.89 1.50
DISCCART 484178.51 3754932.69 1.50
DISCCART 484084.54 3754898.49 1.50
DISCCART 483990.57 3754864.29 1.50
DISCCART 483896.60 3754830.09 1.50
DISCCART 483802.63 3754795.88 1.50
DISCCART 483708.66 3754761.68 1.50
DISCCART 483614.69 3754727.48 1.50
DISCCART 483520.72 3754693.28 1.50
DISCCART 483426.75 3754659.08 1.50
DISCCART 483332.78 3754624.87 1.50
DISCCART 483238.81 3754590.67 1.50
DISCCART 483144.84 3754556.47 1.50
DISCCART 483050.88 3754522.27 1.50
DISCCART 482956.91 3754488.07 1.50
DISCCART 482862.94 3754453.86 1.50
DISCCART 482768.97 3754419.66 1.50
DISCCART 482675.00 3754385.46 1.50
DISCCART 482581.03 3754351.26 1.50
DISCCART 482487.06 3754317.06 1.50
DISCCART 482393.09 3754282.85 1.50
DISCCART 482299.12 3754248.65 1.50
DISCCART 482205.15 3754214.45 1.50
DISCCART 484630.31 3755171.05 1.50
DISCCART 484531.83 3755153.69 1.50
DISCCART 484433.35 3755136.32 1.50
DISCCART 484334.86 3755118.96 1.50
DISCCART 484236.38 3755101.59 1.50
DISCCART 484137.90 3755084.23 1.50
DISCCART 484039.42 3755066.86 1.50
DISCCART 483940.94 3755049.50 1.50
DISCCART 483842.46 3755032.13 1.50

DISCCART 483743.98 3755014.77 1.50
DISCCART 483645.50 3754997.40 1.50
DISCCART 483547.02 3754980.04 1.50
DISCCART 483448.54 3754962.67 1.50
DISCCART 483350.06 3754945.31 1.50
DISCCART 483251.58 3754927.94 1.50
DISCCART 483153.10 3754910.58 1.50
DISCCART 483054.61 3754893.21 1.50
DISCCART 482956.13 3754875.85 1.50
DISCCART 482857.65 3754858.48 1.50
DISCCART 482759.17 3754841.12 1.50
DISCCART 482660.69 3754823.75 1.50
DISCCART 482562.21 3754806.39 1.50
DISCCART 482463.73 3754789.02 1.50
DISCCART 482365.25 3754771.66 1.50
DISCCART 482266.77 3754754.30 1.50
DISCCART 482168.29 3754736.93 1.50
DISCCART 482069.81 3754719.57 1.50
DISCCART 484624.23 3755240.51 1.50
DISCCART 484524.23 3755240.51 1.50
DISCCART 484424.23 3755240.51 1.50
DISCCART 484324.23 3755240.51 1.50
DISCCART 484224.23 3755240.51 1.50
DISCCART 484124.23 3755240.51 1.50
DISCCART 484024.23 3755240.51 1.50
DISCCART 483924.23 3755240.51 1.50
DISCCART 483824.23 3755240.51 1.50
DISCCART 483724.23 3755240.51 1.50
DISCCART 483624.23 3755240.51 1.50
DISCCART 485270.07 3754972.73 1.50
DISCCART 483424.23 3755240.51 1.50
DISCCART 483324.23 3755240.51 1.50
DISCCART 483224.23 3755240.51 1.50
DISCCART 483124.23 3755240.51 1.50
DISCCART 483024.23 3755240.51 1.50
DISCCART 482924.23 3755240.51 1.50
DISCCART 482824.23 3755240.51 1.50
DISCCART 482724.23 3755240.51 1.50
DISCCART 482624.23 3755240.51 1.50
DISCCART 482524.23 3755240.51 1.50
DISCCART 482424.23 3755240.51 1.50
DISCCART 482324.23 3755240.51 1.50
DISCCART 482224.23 3755240.51 1.50
DISCCART 482124.23 3755240.51 1.50
DISCCART 482024.23 3755240.51 1.50
DISCCART 484630.31 3755309.97 1.50
DISCCART 484531.83 3755327.33 1.50
DISCCART 484433.35 3755344.70 1.50
DISCCART 484334.86 3755362.06 1.50
DISCCART 484236.38 3755379.43 1.50
DISCCART 484137.90 3755396.79 1.50
DISCCART 484039.42 3755414.16 1.50
DISCCART 483940.94 3755431.52 1.50
DISCCART 485244.81 3754972.80 1.50
DISCCART 483743.98 3755466.25 1.50
DISCCART 483645.50 3755483.62 1.50
DISCCART 483547.02 3755500.98 1.50
DISCCART 483448.54 3755518.35 1.50
DISCCART 483350.06 3755535.71 1.50
DISCCART 483251.58 3755553.08 1.50
DISCCART 483153.10 3755570.44 1.50
DISCCART 483054.61 3755587.81 1.50
DISCCART 482956.13 3755605.17 1.50
DISCCART 482857.65 3755622.54 1.50
DISCCART 482759.17 3755639.90 1.50
DISCCART 482660.69 3755657.27 1.50

DISCCART 482562.21 3755674.63 1.50
DISCCART 482463.73 3755692.00 1.50
DISCCART 482365.25 3755709.36 1.50
DISCCART 482266.77 3755726.72 1.50
DISCCART 482168.29 3755744.09 1.50
DISCCART 482069.81 3755761.45 1.50
DISCCART 484648.35 3755377.32 1.50
DISCCART 484554.38 3755411.52 1.50
DISCCART 485246.73 3755001.74 1.50
DISCCART 484366.45 3755479.92 1.50
DISCCART 484272.48 3755514.13 1.50
DISCCART 484178.51 3755548.33 1.50
DISCCART 484084.54 3755582.53 1.50
DISCCART 483990.57 3755616.73 1.50
DISCCART 483896.60 3755650.93 1.50
DISCCART 483802.63 3755685.14 1.50
DISCCART 483708.66 3755719.34 1.50
DISCCART 483614.69 3755753.54 1.50
DISCCART 483520.72 3755787.74 1.50
DISCCART 483426.75 3755821.94 1.50
DISCCART 483332.78 3755856.15 1.50
DISCCART 483238.81 3755890.35 1.50
DISCCART 483144.84 3755924.55 1.50
DISCCART 483050.88 3755958.75 1.50
DISCCART 482956.91 3755992.95 1.50
DISCCART 482862.94 3756027.16 1.50
DISCCART 482768.97 3756061.36 1.50
DISCCART 482675.00 3756095.56 1.50
DISCCART 482581.03 3756129.76 1.50
DISCCART 482487.06 3756163.96 1.50
DISCCART 482393.09 3756198.17 1.50
DISCCART 482299.12 3756232.37 1.50
DISCCART 482205.15 3756266.57 1.50
DISCCART 484591.22 3755490.51 1.50
DISCCART 484504.61 3755540.51 1.50
DISCCART 484418.01 3755590.51 1.50
DISCCART 484331.41 3755640.51 1.50
DISCCART 484244.81 3755690.51 1.50
DISCCART 484158.20 3755740.51 1.50
DISCCART 484071.60 3755790.51 1.50
DISCCART 483985.00 3755840.51 1.50
DISCCART 483898.40 3755890.51 1.50
DISCCART 483811.79 3755940.51 1.50
DISCCART 483725.19 3755990.51 1.50
DISCCART 483638.59 3756040.51 1.50
DISCCART 483551.99 3756090.51 1.50
DISCCART 483465.38 3756140.51 1.50
DISCCART 483378.78 3756190.51 1.50
DISCCART 483292.18 3756240.51 1.50
DISCCART 483205.58 3756290.51 1.50
DISCCART 483118.97 3756340.51 1.50
DISCCART 483032.37 3756390.51 1.50
DISCCART 482945.77 3756440.51 1.50
DISCCART 482859.17 3756490.51 1.50
DISCCART 482772.56 3756540.51 1.50
DISCCART 482685.96 3756590.51 1.50
DISCCART 482599.36 3756640.51 1.50
DISCCART 482512.76 3756690.51 1.50
DISCCART 482426.15 3756740.51 1.50
DISCCART 484717.81 3755497.63 1.50
DISCCART 484641.21 3755561.90 1.50
DISCCART 484564.60 3755626.18 1.50
DISCCART 484488.00 3755690.46 1.50
DISCCART 484411.39 3755754.74 1.50
DISCCART 484334.79 3755819.02 1.50
DISCCART 484258.19 3755883.30 1.50

DISCCART 484181.58 3755947.58 1.50
DISCCART 484104.98 3756011.86 1.50
DISCCART 484028.37 3756076.13 1.50
DISCCART 483951.77 3756140.41 1.50
DISCCART 483875.16 3756204.69 1.50
DISCCART 483798.56 3756268.97 1.50
DISCCART 483721.95 3756333.25 1.50
DISCCART 483645.35 3756397.53 1.50
DISCCART 483568.75 3756461.81 1.50
DISCCART 483492.14 3756526.09 1.50
DISCCART 483415.54 3756590.36 1.50
DISCCART 483338.93 3756654.64 1.50
DISCCART 483262.33 3756718.92 1.50
DISCCART 483185.72 3756783.20 1.50
DISCCART 483109.12 3756847.48 1.50
DISCCART 483032.51 3756911.76 1.50
DISCCART 482955.91 3756976.04 1.50
DISCCART 482879.31 3757040.32 1.50
DISCCART 482802.70 3757104.59 1.50
DISCCART 482726.10 3757168.87 1.50
DISCCART 484831.39 3755470.32 1.50
DISCCART 484767.11 3755546.93 1.50
DISCCART 484702.84 3755623.53 1.50
DISCCART 484638.56 3755700.14 1.50
DISCCART 484574.28 3755776.74 1.50
DISCCART 484510.00 3755853.35 1.50
DISCCART 484445.72 3755929.95 1.50
DISCCART 484381.44 3756006.55 1.50
DISCCART 484317.16 3756083.16 1.50
DISCCART 484252.88 3756159.76 1.50
DISCCART 484188.61 3756236.37 1.50
DISCCART 484124.33 3756312.97 1.50
DISCCART 484060.05 3756389.58 1.50
DISCCART 483995.77 3756466.18 1.50
DISCCART 483931.49 3756542.79 1.50
DISCCART 483867.21 3756619.39 1.50
DISCCART 483802.93 3756695.99 1.50
DISCCART 483738.65 3756772.60 1.50
DISCCART 483674.38 3756849.20 1.50
DISCCART 483610.10 3756925.81 1.50
DISCCART 483545.82 3757002.41 1.50
DISCCART 483481.54 3757079.02 1.50
DISCCART 483417.26 3757155.62 1.50
DISCCART 483352.98 3757232.23 1.50
DISCCART 483288.70 3757308.83 1.50
DISCCART 483224.42 3757385.43 1.50
DISCCART 483160.15 3757462.04 1.50
DISCCART 483095.87 3757538.64 1.50
DISCCART 484874.23 3755500.32 1.50
DISCCART 484824.23 3755586.92 1.50
DISCCART 484774.23 3755673.52 1.50
DISCCART 484724.23 3755760.13 1.50
DISCCART 484674.23 3755846.73 1.50
DISCCART 484624.23 3755933.33 1.50
DISCCART 484574.23 3756019.93 1.50
DISCCART 484524.23 3756106.54 1.50
DISCCART 484474.23 3756193.14 1.50
DISCCART 484424.23 3756279.74 1.50
DISCCART 484374.23 3756366.34 1.50
DISCCART 484324.23 3756452.95 1.50
DISCCART 484274.23 3756539.55 1.50
DISCCART 484224.23 3756626.15 1.50
DISCCART 484174.23 3756712.75 1.50
DISCCART 484124.23 3756799.36 1.50
DISCCART 484074.23 3756885.96 1.50
DISCCART 484024.23 3756972.56 1.50

DISCCART 483974.23 3757059.16 1.50
DISCCART 483924.23 3757145.77 1.50
DISCCART 483874.23 3757232.37 1.50
DISCCART 483824.23 3757318.97 1.50
DISCCART 483774.23 3757405.57 1.50
DISCCART 483724.23 3757492.18 1.50
DISCCART 483674.23 3757578.78 1.50
DISCCART 483624.23 3757665.38 1.50
DISCCART 483574.23 3757751.98 1.50
DISCCART 483524.23 3757838.59 1.50
DISCCART 484921.62 3755522.42 1.50
DISCCART 484887.42 3755616.39 1.50
DISCCART 484853.22 3755710.36 1.50
DISCCART 484819.02 3755804.33 1.50
DISCCART 484784.82 3755898.29 1.50
DISCCART 484750.61 3755992.26 1.50
DISCCART 484716.41 3756086.23 1.50
DISCCART 484682.21 3756180.20 1.50
DISCCART 484648.01 3756274.17 1.50
DISCCART 484613.81 3756368.14 1.50
DISCCART 484579.60 3756462.11 1.50
DISCCART 484545.40 3756556.08 1.50
DISCCART 484511.20 3756650.05 1.50
DISCCART 484477.00 3756744.02 1.50
DISCCART 484442.80 3756837.99 1.50
DISCCART 484408.59 3756931.96 1.50
DISCCART 484374.39 3757025.93 1.50
DISCCART 484340.19 3757119.90 1.50
DISCCART 484305.99 3757213.86 1.50
DISCCART 484271.79 3757307.83 1.50
DISCCART 484237.58 3757401.80 1.50
DISCCART 484203.38 3757495.77 1.50
DISCCART 484169.18 3757589.74 1.50
DISCCART 484134.98 3757683.71 1.50
DISCCART 484100.78 3757777.68 1.50
DISCCART 484066.57 3757871.65 1.50
DISCCART 484032.37 3757965.62 1.50
DISCCART 483998.17 3758059.59 1.50
DISCCART 484972.14 3755535.95 1.50
DISCCART 484954.77 3755634.43 1.50
DISCCART 484937.41 3755732.91 1.50
DISCCART 484920.04 3755831.39 1.50
DISCCART 484902.68 3755929.88 1.50
DISCCART 484885.31 3756028.36 1.50
DISCCART 484867.95 3756126.84 1.50
DISCCART 484850.58 3756225.32 1.50
DISCCART 484833.22 3756323.80 1.50
DISCCART 484815.85 3756422.28 1.50
DISCCART 484798.49 3756520.76 1.50
DISCCART 484781.12 3756619.24 1.50
DISCCART 484763.76 3756717.72 1.50
DISCCART 484746.39 3756816.20 1.50
DISCCART 484729.03 3756914.68 1.50
DISCCART 484711.66 3757013.16 1.50
DISCCART 484694.30 3757111.64 1.50
DISCCART 484676.93 3757210.13 1.50
DISCCART 484659.57 3757308.61 1.50
DISCCART 484642.20 3757407.09 1.50
DISCCART 484624.84 3757505.57 1.50
DISCCART 484607.47 3757604.05 1.50
DISCCART 484590.11 3757702.53 1.50
DISCCART 484572.74 3757801.01 1.50
DISCCART 484555.38 3757899.49 1.50
DISCCART 484538.02 3757997.97 1.50
DISCCART 484520.65 3758096.45 1.50
DISCCART 484503.29 3758194.93 1.50

```

RE FINISHED
**
*****
** ISCS3 Meteorology Pathway
*****
**
**
ME STARTING
INPUTFIL U:\UcAir\METDAT~1\REDLANDS.ASC
ANEMHGT 10 METERS
SURFDATA 54161 1981
UAIRDATA 99999 1981
ME FINISHED
**
*****
** ISCS3 Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
PLOTFILE ANNUAL ALL HRA.IS\AN00GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

```

```

*** ISCS3 - VERSION 02035 ***   C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc   *** 10/08/09
*** West Ridge HRA   *** 09:47:24
**MODELOPTS:
CONC      URBAN FLAT  FLGPOL      NOCALM      NOCMPL
          PAGE 1
          NOCMPL

*** MODEL SETUP OPTIONS SUMMARY ***
-----

**Simple Terrain Model is Selected

**Model Is Setup For Calculation of Average CONcentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE = F
**Model Uses NO WET DEPLETION.  WDPLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses User-Specified Options:
  1. Final Plume Rise.
  2. Stack-tip Downwash.
  3. Buoyancy-induced Dispersion.
  4. Not Use Calms Processing Routine.
  5. Not Use Missing Data Processing Routine.
  6. Default Wind Profile Exponents.
  7. Default Vertical Potential Temperature Gradients.

**Model Assumes Receptors on FLAT Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes: 156 Source(s); 1 Source Group(s); and 985 Receptor(s)

**The Model Assumes A Pollutant Type of: DPM

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
  Model Outputs Tables of ANNUAL Averages by Receptor
  Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
  Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
  Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 1.4 MB of RAM.

**Input Runstream File: HRA.INP
**Output Print File: HRA.OUT

```

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 2
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	EMISSION RATE SCALAR (METERS)	VARY BY
L0001052	0	0.48800E-06	485514.0	3755433.5	0.0	4.00	12.43	1.86	HROFDY	
L0001053	0	0.48800E-06	485514.0	3755406.8	0.0	4.00	12.43	1.86	HROFDY	
L0001054	0	0.48800E-06	485513.9	3755380.0	0.0	4.00	12.43	1.86	HROFDY	
L0001055	0	0.48800E-06	485513.8	3755353.3	0.0	4.00	12.43	1.86	HROFDY	
L0001056	0	0.48800E-06	485513.8	3755326.5	0.0	4.00	12.43	1.86	HROFDY	
L0001057	0	0.48800E-06	485513.7	3755299.8	0.0	4.00	12.43	1.86	HROFDY	
L0001058	0	0.48800E-06	485513.6	3755273.0	0.0	4.00	12.43	1.86	HROFDY	
L0001059	0	0.48800E-06	485513.5	3755246.3	0.0	4.00	12.43	1.86	HROFDY	
L0001060	0	0.48800E-06	485513.4	3755219.6	0.0	4.00	12.43	1.86	HROFDY	
L0001061	0	0.48800E-06	485513.4	3755193.0	0.0	4.00	12.43	1.86	HROFDY	
L0001062	0	0.48800E-06	485513.3	3755166.3	0.0	4.00	12.43	1.86	HROFDY	
L0001063	0	0.48800E-06	485513.2	3755139.5	0.0	4.00	12.43	1.86	HROFDY	
L0001064	0	0.48800E-06	485513.2	3755112.8	0.0	4.00	12.43	1.86	HROFDY	
L0001065	0	0.48800E-06	485513.1	3755086.0	0.0	4.00	12.43	1.86	HROFDY	
L0001066	0	0.48800E-06	485513.0	3755059.3	0.0	4.00	12.43	1.86	HROFDY	
L0001067	0	0.48800E-06	485512.9	3755032.5	0.0	4.00	12.43	1.86	HROFDY	
L0001068	0	0.48800E-06	485494.2	3755025.5	0.0	4.00	11.94	1.86	HROFDY	
L0001069	0	0.48800E-06	485468.5	3755025.5	0.0	4.00	11.94	1.86	HROFDY	
L0001070	0	0.48800E-06	485442.9	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001071	0	0.48800E-06	485417.2	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001072	0	0.48800E-06	485391.5	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001073	0	0.48800E-06	485365.8	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001074	0	0.48800E-06	485340.2	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001075	0	0.48800E-06	485314.5	3755026.0	0.0	4.00	11.94	1.86	HROFDY	
L0001076	0	0.48800E-06	485288.8	3755026.0	0.0	4.00	11.94	1.86	HROFDY	
L0001077	0	0.49000E-06	485265.3	3755112.8	0.0	4.00	7.15	1.86	HROFDY	
L0001078	0	0.49000E-06	485249.9	3755113.0	0.0	4.00	7.15	1.86	HROFDY	
L0001079	0	0.49000E-06	485234.5	3755113.0	0.0	4.00	7.15	1.86	HROFDY	
L0001080	0	0.49000E-06	485219.2	3755113.0	0.0	4.00	7.15	1.86	HROFDY	
L0001081	0	0.49000E-06	485203.8	3755113.3	0.0	4.00	7.15	1.86	HROFDY	
L0001082	0	0.50800E-06	485281.9	3755043.8	0.0	4.00	7.53	1.86	HROFDY	
L0001083	0	0.50800E-06	485281.7	3755060.0	0.0	4.00	7.53	1.86	HROFDY	
L0001084	0	0.50800E-06	485281.4	3755076.3	0.0	4.00	7.53	1.86	HROFDY	
L0001085	0	0.50800E-06	485281.3	3755092.3	0.0	4.00	7.53	1.86	HROFDY	
L0001086	0	0.50800E-06	485281.0	3755108.5	0.0	4.00	7.53	1.86	HROFDY	
L0001087	0	0.59474E-06	485280.8	3755119.8	0.0	4.00	8.82	1.86	HROFDY	
L0001088	0	0.59474E-06	485280.0	3755138.8	0.0	4.00	8.82	1.86	HROFDY	
L0001089	0	0.59474E-06	485279.3	3755157.8	0.0	4.00	8.82	1.86	HROFDY	
L0001090	0	0.59474E-06	485278.4	3755176.5	0.0	4.00	8.82	1.86	HROFDY	
L0001091	0	0.59474E-06	485277.7	3755195.5	0.0	4.00	8.82	1.86	HROFDY	

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 3
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	EMISSION RATE SCALAR (METERS)	VARY BY
L0001092	0	0.59474E-06	485276.9	3755214.5	0.0	4.00	8.82	1.86	HROFDY	
L0001093	0	0.59474E-06	485276.1	3755233.5	0.0	4.00	8.82	1.86	HROFDY	
L0001094	0	0.59474E-06	485275.3	3755252.3	0.0	4.00	8.82	1.86	HROFDY	
L0001095	0	0.59474E-06	485274.5	3755271.3	0.0	4.00	8.82	1.86	HROFDY	
L0001096	0	0.59474E-06	485273.7	3755290.3	0.0	4.00	8.82	1.86	HROFDY	
L0001097	0	0.59474E-06	485272.9	3755309.3	0.0	4.00	8.82	1.86	HROFDY	
L0001098	0	0.59474E-06	485272.1	3755328.0	0.0	4.00	8.82	1.86	HROFDY	
L0001099	0	0.59474E-06	485271.3	3755347.0	0.0	4.00	8.82	1.86	HROFDY	
L0001100	0	0.59474E-06	485270.6	3755366.0	0.0	4.00	8.82	1.86	HROFDY	
L0001101	0	0.59474E-06	485262.3	3755374.5	0.0	4.00	6.41	1.86	HROFDY	
L0001102	0	0.59474E-06	485247.2	3755376.5	0.0	4.00	7.22	1.86	HROFDY	
L0001103	0	0.59474E-06	485231.7	3755376.3	0.0	4.00	7.22	1.86	HROFDY	
L0001104	0	0.59474E-06	485216.2	3755376.3	0.0	4.00	7.22	1.86	HROFDY	
L0001105	0	0.59474E-06	485200.7	3755376.0	0.0	4.00	7.22	1.86	HROFDY	
L0001106	0	0.48000E-06	483513.9	3755430.3	0.0	4.00	11.63	1.86	HROFDY	
L0001107	0	0.48000E-06	483515.1	3755405.3	0.0	4.00	11.63	1.86	HROFDY	
L0001108	0	0.48000E-06	483516.3	3755380.3	0.0	4.00	11.63	1.86	HROFDY	
L0001109	0	0.48000E-06	483517.5	3755355.3	0.0	4.00	11.63	1.86	HROFDY	
L0001110	0	0.48000E-06	483518.7	3755330.5	0.0	4.00	11.63	1.86	HROFDY	
L0001111	0	0.48000E-06	483519.9	3755305.5	0.0	4.00	11.63	1.86	HROFDY	
L0001112	0	0.48000E-06	483521.1	3755280.5	0.0	4.00	11.63	1.86	HROFDY	
L0001113	0	0.48000E-06	483522.3	3755255.5	0.0	4.00	11.63	1.86	HROFDY	
L0001114	0	0.48000E-06	483523.5	3755230.5	0.0	4.00	11.63	1.86	HROFDY	
L0001115	0	0.48000E-06	483544.2	3755223.5	0.0	4.00	12.74	1.86	HROFDY	
L0001116	0	0.48000E-06	483571.6	3755223.5	0.0	4.00	12.74	1.86	HROFDY	
L0001117	0	0.48000E-06	483599.0	3755223.3	0.0	4.00	12.74	1.86	HROFDY	
L0001118	0	0.48000E-06	483626.4	3755223.3	0.0	4.00	12.74	1.86	HROFDY	
L0001119	0	0.48000E-06	483653.8	3755223.3	0.0	4.00	12.74	1.86	HROFDY	
L0001120	0	0.48000E-06	483681.1	3755223.3	0.0	4.00	12.74	1.86	HROFDY	
L0001121	0	0.48000E-06	483708.5	3755223.0	0.0	4.00	12.74	1.86	HROFDY	
L0001122	0	0.48000E-06	483735.9	3755223.0	0.0	4.00	12.74	1.86	HROFDY	
L0001123	0	0.48000E-06	483763.3	3755223.0	0.0	4.00	12.74	1.86	HROFDY	
L0001124	0	0.48000E-06	483790.7	3755222.8	0.0	4.00	12.74	1.86	HROFDY	
L0001125	0	0.48000E-06	483818.0	3755222.8	0.0	4.00	12.74	1.86	HROFDY	
L0001126	0	0.48000E-06	483845.4	3755222.8	0.0	4.00	12.74	1.86	HROFDY	
L0001127	0	0.48000E-06	483872.8	3755222.8	0.0	4.00	12.74	1.86	HROFDY	
L0001128	0	0.48000E-06	483900.2	3755222.5	0.0	4.00	12.74	1.86	HROFDY	
L0001129	0	0.48000E-06	483927.6	3755222.5	0.0	4.00	12.74	1.86	HROFDY	
L0001130	0	0.48000E-06	483954.9	3755222.5	0.0	4.00	12.74	1.86	HROFDY	
L0001131	0	0.48000E-06	483982.3	3755222.5	0.0	4.00	12.74	1.86	HROFDY	

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

MODELLOPTS: * West Ridge HRA *** 09:47:24
PAGE 4
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	EMISSION RATE SCALAR VARY (METERS) BY
L0001132	0	0.48000E-06	484009.7	3755222.3	0.0	4.00	12.74	1.86	HROFDY
L0001133	0	0.48000E-06	484037.1	3755222.3	0.0	4.00	12.74	1.86	HROFDY
L0001134	0	0.48000E-06	484064.5	3755222.3	0.0	4.00	12.74	1.86	HROFDY
L0001135	0	0.48000E-06	484091.9	3755222.3	0.0	4.00	12.74	1.86	HROFDY
L0001136	0	0.48000E-06	484119.3	3755222.0	0.0	4.00	12.74	1.86	HROFDY
L0001137	0	0.48000E-06	484146.6	3755222.0	0.0	4.00	12.74	1.86	HROFDY
L0001138	0	0.48000E-06	484172.9	3755216.8	0.0	4.00	12.55	1.86	HROFDY
L0001139	0	0.48000E-06	484199.0	3755209.8	0.0	4.00	12.55	1.86	HROFDY
L0001140	0	0.48000E-06	484225.1	3755202.8	0.0	4.00	12.55	1.86	HROFDY
L0001141	0	0.48000E-06	484251.1	3755195.8	0.0	4.00	12.55	1.86	HROFDY
L0001142	0	0.48000E-06	484277.2	3755188.8	0.0	4.00	12.55	1.86	HROFDY
L0001143	0	0.48000E-06	484296.1	3755176.3	0.0	4.00	10.81	1.86	HROFDY
L0001144	0	0.48000E-06	484313.3	3755160.5	0.0	4.00	10.81	1.86	HROFDY
L0001145	0	0.48000E-06	484330.6	3755145.0	0.0	4.00	10.81	1.86	HROFDY
L0001146	0	0.48000E-06	484347.9	3755129.5	0.0	4.00	10.81	1.86	HROFDY
L0001147	0	0.48000E-06	484365.2	3755114.0	0.0	4.00	10.81	1.86	HROFDY
L0001148	0	0.48000E-06	484386.2	3755100.8	0.0	4.00	11.58	1.86	HROFDY
L0001149	0	0.48000E-06	484408.2	3755089.3	0.0	4.00	11.58	1.86	HROFDY
L0001150	0	0.48000E-06	484430.1	3755077.5	0.0	4.00	11.58	1.86	HROFDY
L0001151	0	0.48000E-06	484452.1	3755065.8	0.0	4.00	11.58	1.86	HROFDY
L0001152	0	0.48000E-06	484474.1	3755054.0	0.0	4.00	11.58	1.86	HROFDY
L0001153	0	0.48000E-06	484496.0	3755042.3	0.0	4.00	11.58	1.86	HROFDY
L0001154	0	0.48000E-06	484517.0	3755036.0	0.0	4.00	10.25	1.86	HROFDY
L0001155	0	0.48000E-06	484538.6	3755031.8	0.0	4.00	10.25	1.86	HROFDY
L0001156	0	0.48000E-06	484560.2	3755027.3	0.0	4.00	10.25	1.86	HROFDY
L0001157	0	0.48000E-06	484581.8	3755023.0	0.0	4.00	10.25	1.86	HROFDY
L0001158	0	0.48000E-06	484605.9	3755021.3	0.0	4.00	11.29	1.86	HROFDY
L0001159	0	0.48000E-06	484630.2	3755021.3	0.0	4.00	11.29	1.86	HROFDY
L0001160	0	0.48000E-06	484654.4	3755021.0	0.0	4.00	11.29	1.86	HROFDY
L0001161	0	0.48000E-06	484678.7	3755020.8	0.0	4.00	11.29	1.86	HROFDY
L0001162	0	0.48000E-06	484703.0	3755020.5	0.0	4.00	11.29	1.86	HROFDY
L0001163	0	0.48000E-06	484727.3	3755020.3	0.0	4.00	11.29	1.86	HROFDY
L0001164	0	0.48000E-06	484751.5	3755020.0	0.0	4.00	11.29	1.86	HROFDY
L0001165	0	0.48000E-06	484775.8	3755021.0	0.0	4.00	11.31	1.86	HROFDY
L0001166	0	0.53667E-06	484781.4	3755040.5	0.0	4.00	8.84	1.86	HROFDY
L0001167	0	0.53667E-06	484781.2	3755059.5	0.0	4.00	8.84	1.86	HROFDY
L0001168	0	0.53667E-06	484780.9	3755078.5	0.0	4.00	8.84	1.86	HROFDY
L0001169	0	0.59444E-06	484780.2	3755088.0	0.0	4.00	8.78	1.86	HROFDY
L0001170	0	0.59444E-06	484780.0	3755106.8	0.0	4.00	8.78	1.86	HROFDY
L0001171	0	0.59444E-06	484779.8	3755125.8	0.0	4.00	8.78	1.86	HROFDY

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

MODELLOPTS: * West Ridge HRA *** 09:47:24
PAGE 5
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	EMISSION RATE SCALAR VARY (METERS) BY
L0001172	0	0.59444E-06	484779.7	3755144.5	0.0	4.00	8.78	1.86	HROFDY
L0001173	0	0.59444E-06	484779.5	3755163.5	0.0	4.00	8.78	1.86	HROFDY
L0001174	0	0.59444E-06	484779.3	3755182.3	0.0	4.00	8.78	1.86	HROFDY
L0001175	0	0.59444E-06	484779.2	3755201.3	0.0	4.00	8.78	1.86	HROFDY
L0001176	0	0.59444E-06	484779.0	3755220.0	0.0	4.00	8.78	1.86	HROFDY
L0001177	0	0.59444E-06	484778.8	3755239.0	0.0	4.00	8.78	1.86	HROFDY
L0001178	0	0.59444E-06	484778.7	3755257.8	0.0	4.00	8.78	1.86	HROFDY
L0001179	0	0.59444E-06	484778.5	3755276.8	0.0	4.00	8.78	1.86	HROFDY
L0001180	0	0.59444E-06	484778.3	3755295.5	0.0	4.00	8.78	1.86	HROFDY
L0001181	0	0.59444E-06	484778.2	3755314.5	0.0	4.00	8.78	1.86	HROFDY
L0001182	0	0.59444E-06	484778.0	3755333.3	0.0	4.00	8.78	1.86	HROFDY
L0001183	0	0.59444E-06	484777.8	3755352.3	0.0	4.00	8.78	1.86	HROFDY
L0001184	0	0.59444E-06	484777.7	3755371.0	0.0	4.00	8.78	1.86	HROFDY
L0001185	0	0.59444E-06	484783.3	3755375.8	0.0	4.00	4.99	1.86	HROFDY
L0001186	0	0.59444E-06	484794.1	3755375.5	0.0	4.00	4.99	1.86	HROFDY
L0001187	0	0.48789E-06	485270.4	3755024.5	0.0	4.00	12.33	1.86	HROFDY
L0001188	0	0.48789E-06	485243.8	3755024.3	0.0	4.00	12.33	1.86	HROFDY
L0001189	0	0.48789E-06	485217.3	3755024.0	0.0	4.00	12.33	1.86	HROFDY
L0001190	0	0.48789E-06	485190.8	3755023.8	0.0	4.00	12.33	1.86	HROFDY
L0001191	0	0.48789E-06	485164.3	3755023.5	0.0	4.00	12.33	1.86	HROFDY
L0001192	0	0.48789E-06	485137.8	3755023.3	0.0	4.00	12.33	1.86	HROFDY
L0001193	0	0.48789E-06	485111.3	3755023.0	0.0	4.00	12.33	1.86	HROFDY
L0001194	0	0.48789E-06	485084.8	3755022.8	0.0	4.00	12.33	1.86	HROFDY
L0001195	0	0.48789E-06	485058.3	3755022.5	0.0	4.00	12.33	1.86	HROFDY
L0001196	0	0.48789E-06	485031.7	3755022.3	0.0	4.00	12.33	1.86	HROFDY
L0001197	0	0.48789E-06	485005.2	3755022.0	0.0	4.00	12.33	1.86	HROFDY
L0001198	0	0.48789E-06	484978.7	3755021.8	0.0	4.00	12.33	1.86	HROFDY
L0001199	0	0.48789E-06	484952.2	3755021.5	0.0	4.00	12.33	1.86	HROFDY
L0001200	0	0.48789E-06	484925.7	3755021.3	0.0	4.00	12.33	1.86	HROFDY
L0001201	0	0.48789E-06	484899.1	3755021.0	0.0	4.00	12.33	1.86	HROFDY
L0001202	0	0.48789E-06	484872.6	3755020.8	0.0	4.00	12.33	1.86	HROFDY
L0001203	0	0.48789E-06	484846.1	3755020.5	0.0	4.00	12.33	1.86	HROFDY
L0001204	0	0.48789E-06	484819.6	3755020.3	0.0	4.00	12.33	1.86	HROFDY
L0001205	0	0.48789E-06	484793.1	3755020.0	0.0	4.00	12.33	1.86	HROFDY

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 6
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** AREAPOLY SOURCE DATA ***

SOURCE ID	PART. CATS.	GRAMS/SEC	X	Y	ELEV. (METERS)	HEIGHT OF VERTS. (METERS)	SZ	SCALAR VARY	INIT.	EMISSION RATE
NORTH	0	0.14750E-08	484851.9	3755334.0	0.0	4.00	11	1.86	HROFDY	
SOUTH	0	0.16140E-08	484832.9	3755147.5	0.0	4.00	10	1.86	HROFDY	

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 7
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056, L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068, L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, L0001080, L0001081, L0001082, L0001083, L0001084, L0001085, L0001086, L0001087, L0001088, L0001089, L0001090, L0001091, L0001092, L0001093, L0001094, L0001095, L0001096, L0001097, L0001098, L0001099, L0001100, L0001101, L0001102, L0001103, L0001104, L0001105, L0001106, L0001107, L0001108, L0001109, L0001110, L0001111, L0001112, L0001113, L0001114, L0001115, L0001116, L0001117, L0001118, L0001119, L0001120, L0001121, L0001122, L0001123, L0001124, L0001125, L0001126, L0001127, L0001128, L0001129, L0001130, L0001131, L0001132, L0001133, L0001134, L0001135, L0001136, L0001137, L0001138, L0001139, L0001140, L0001141, L0001142, L0001143, L0001144, L0001145, L0001146, L0001147, L0001148, L0001149, L0001150, L0001151, L0001152, L0001153, L0001154, L0001155, L0001156, L0001157, L0001158, L0001159, L0001160, L0001161, L0001162, L0001163, L0001164, L0001165, L0001166, L0001167, L0001168, L0001169, L0001170, L0001171, L0001172, L0001173, L0001174, L0001175, L0001176, L0001177, L0001178, L0001179, L0001180, L0001181, L0001182, L0001183, L0001184, L0001185, L0001186, L0001187, L0001188, L0001189, L0001190, L0001191, L0001192, L0001193, L0001194, L0001195, L0001196, L0001197, L0001198, L0001199, L0001200, L0001201, L0001202, L0001203, L0001204, L0001205,

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24
**MODELOPTS: PAGE 8
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = NORTH ; SOURCE TYPE = AREAPOLY :
1 .8000E+01 2 .8000E+01 3 .4000E+01 4 .4000E+01 5 .1000E+02 6 .2100E+02
7 .2100E+02 8 .1700E+02 9 .1700E+02 10 .1700E+02 11 .1300E+02 12 .8000E+01
13 .8000E+01 14 .1300E+02 15 .1700E+02 16 .2100E+02 17 .2100E+02 18 .3100E+02
19 .4200E+02 20 .2100E+02 21 .2100E+02 22 .3800E+02 23 .3100E+02 24 .1700E+02

SOURCE ID = SOUTH ; SOURCE TYPE = AREAPOLY :
1 .8000E+01 2 .8000E+01 3 .4000E+01 4 .4000E+01 5 .1000E+02 6 .2100E+02
7 .2100E+02 8 .1700E+02 9 .1700E+02 10 .1700E+02 11 .1300E+02 12 .8000E+01
13 .8000E+01 14 .1300E+02 15 .1700E+02 16 .2100E+02 17 .2100E+02 18 .3100E+02
19 .4200E+02 20 .2100E+02 21 .2100E+02 22 .3800E+02 23 .3100E+02 24 .1700E+02

SOURCE ID = L0001052 ; SOURCE TYPE = VOLUME :
1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001053 ; SOURCE TYPE = VOLUME :
1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001054 ; SOURCE TYPE = VOLUME :
1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24
**MODELOPTS: PAGE 9
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001055 ; SOURCE TYPE = VOLUME :
1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001056 ; SOURCE TYPE = VOLUME :
1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001057 ; SOURCE TYPE = VOLUME :
1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001058 ; SOURCE TYPE = VOLUME :
1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001059 ; SOURCE TYPE = VOLUME :
1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

**MODELOPTS: PAGE 10
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001060; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001061; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001062; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001063; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001064; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

**MODELOPTS: PAGE 11
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001065; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001066; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001067; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001068; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001069; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 12
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001070; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001071; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001072; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001073; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001074; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 13
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001075; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001076; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001077; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001078; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001079; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 14
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001080; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001081; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001082; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001083; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001084; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 15
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001085; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001086; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001087; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001088; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001089; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

-917-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 16
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001090; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001091; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001092; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001093; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001094; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 17
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001095; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001096; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001097; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001098; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001099; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 18
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001100; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001101; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001102; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001103; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001104; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 19
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001105; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001106; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001107; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001108; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001109; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 20
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001110; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001111; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001112; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001113; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001114; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 21
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001115; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001116; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001117; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001118; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001119; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 22
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001120; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001121; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001122; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001123; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001124; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 23
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001125; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001126; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001127; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001128; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001129; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 24
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001130; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001131; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001132; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001133; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001134; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 25
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001135; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001136; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001137; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001138; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001139; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 26
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001140; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001141; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001142; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001143; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001144; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 27
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001145; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001146; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001147; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001148; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001149; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

-923-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 28
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001150; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001151; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001152; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001153; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001154; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 29
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001155; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001156; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001157; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001158; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001159; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 30
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001160; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001161; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001162; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001163; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001164; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24
 **MODELOPTS: PAGE 31
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001165; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001166; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001167; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001168; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001169; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

-925-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 32
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001170; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001171; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001172; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001173; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001174; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 33
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001175; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001176; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001177; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001178; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001179; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

**MODELOPTS: PAGE 34
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001180; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001181; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001182; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001183; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001184; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

**MODELOPTS: PAGE 35
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001185; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001186; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001187; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001188; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001189; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 36
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001190; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001191; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001192; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001193; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001194; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 37
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001195; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001196; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001197; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001198; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001199; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

**MODELOPTS: PAGE 38
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001200 ; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001201 ; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001202 ; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001203 ; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001204 ; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

**MODELOPTS: PAGE 39
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001205 ; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24
**MODELOPTS: PAGE 40
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485024.2, 3755540.5, 0.0, 1.5); (485024.2, 3755640.5, 0.0, 1.5);
(485024.2, 3755740.5, 0.0, 1.5); (485024.2, 3755840.5, 0.0, 1.5);
(485024.2, 3755940.5, 0.0, 1.5); (485024.2, 3756040.5, 0.0, 1.5);
(485024.2, 3756140.5, 0.0, 1.5); (485024.2, 3756240.5, 0.0, 1.5);
(485024.2, 3756340.5, 0.0, 1.5); (485024.2, 3756440.5, 0.0, 1.5);
(485024.2, 3756540.5, 0.0, 1.5); (485024.2, 3756640.5, 0.0, 1.5);
(485024.2, 3756740.5, 0.0, 1.5); (485024.2, 3756840.5, 0.0, 1.5);
(485024.2, 3756940.5, 0.0, 1.5); (485024.2, 3757040.5, 0.0, 1.5);
(485024.2, 3757140.5, 0.0, 1.5); (485024.2, 3757240.5, 0.0, 1.5);
(485024.2, 3757340.5, 0.0, 1.5); (485024.2, 3757440.5, 0.0, 1.5);
(485024.2, 3757540.5, 0.0, 1.5); (485024.2, 3757640.5, 0.0, 1.5);
(485024.2, 3757740.5, 0.0, 1.5); (485024.2, 3757840.5, 0.0, 1.5);
(485024.2, 3757940.5, 0.0, 1.5); (485024.2, 3758040.5, 0.0, 1.5);
(485024.2, 3758140.5, 0.0, 1.5); (485024.2, 3758240.5, 0.0, 1.5);
(485076.3, 3755536.0, 0.0, 1.5); (485093.7, 3755634.5, 0.0, 1.5);
(485111.1, 3755733.0, 0.0, 1.5); (485128.4, 3755831.5, 0.0, 1.5);
(485145.8, 3755930.0, 0.0, 1.5); (485163.2, 3756028.3, 0.0, 1.5);
(485180.5, 3756126.8, 0.0, 1.5); (485197.9, 3756225.3, 0.0, 1.5);
(485215.3, 3756323.8, 0.0, 1.5); (485232.6, 3756422.3, 0.0, 1.5);
(485250.0, 3756520.8, 0.0, 1.5); (485267.3, 3756619.3, 0.0, 1.5);
(485284.7, 3756717.8, 0.0, 1.5); (485302.1, 3756816.3, 0.0, 1.5);
(485319.4, 3756914.8, 0.0, 1.5); (485336.8, 3757013.3, 0.0, 1.5);
(485354.2, 3757111.8, 0.0, 1.5); (485371.5, 3757210.3, 0.0, 1.5);
(485388.9, 3757308.5, 0.0, 1.5); (485406.3, 3757407.0, 0.0, 1.5);
(485423.6, 3757505.5, 0.0, 1.5); (485441.0, 3757604.0, 0.0, 1.5);
(485458.3, 3757702.5, 0.0, 1.5); (485475.7, 3757801.0, 0.0, 1.5);
(485493.1, 3757899.5, 0.0, 1.5); (485510.4, 3757998.0, 0.0, 1.5);
(485527.8, 3758096.5, 0.0, 1.5); (485545.2, 3758195.0, 0.0, 1.5);
(485126.8, 3755522.5, 0.0, 1.5); (485161.0, 3755616.5, 0.0, 1.5);
(485195.3, 3755710.3, 0.0, 1.5); (485229.4, 3755804.3, 0.0, 1.5);
(485263.6, 3755898.3, 0.0, 1.5); (485297.8, 3755992.3, 0.0, 1.5);
(485332.1, 3756086.3, 0.0, 1.5); (485366.3, 3756180.3, 0.0, 1.5);
(485400.4, 3756274.3, 0.0, 1.5); (485434.7, 3756368.3, 0.0, 1.5);
(485468.9, 3756462.0, 0.0, 1.5); (485503.1, 3756556.0, 0.0, 1.5);
(485537.3, 3756650.0, 0.0, 1.5); (485571.5, 3756744.0, 0.0, 1.5);
(485605.7, 3756838.0, 0.0, 1.5); (485639.9, 3756932.0, 0.0, 1.5);
(485674.1, 3757026.0, 0.0, 1.5); (485708.3, 3757120.0, 0.0, 1.5);
(485742.5, 3757213.8, 0.0, 1.5); (485776.7, 3757307.8, 0.0, 1.5);
(485810.9, 3757401.8, 0.0, 1.5); (485845.1, 3757495.8, 0.0, 1.5);
(485879.3, 3757589.8, 0.0, 1.5); (485913.5, 3757683.8, 0.0, 1.5);
(485947.7, 3757777.8, 0.0, 1.5); (485981.9, 3757871.8, 0.0, 1.5);
(486016.1, 3757965.5, 0.0, 1.5); (486050.3, 3758059.5, 0.0, 1.5);
(485174.2, 3755500.3, 0.0, 1.5); (485224.2, 3755587.0, 0.0, 1.5);
(485274.2, 3755673.5, 0.0, 1.5); (485324.2, 3755760.3, 0.0, 1.5);
(485374.2, 3755846.8, 0.0, 1.5); (485424.2, 3755933.3, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24
**MODELOPTS: PAGE 41
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485474.2, 3756020.0, 0.0, 1.5); (485524.2, 3756106.5, 0.0, 1.5);
(485574.2, 3756193.3, 0.0, 1.5); (485624.2, 3756279.8, 0.0, 1.5);
(485674.2, 3756366.3, 0.0, 1.5); (485724.2, 3756453.0, 0.0, 1.5);
(485774.2, 3756539.5, 0.0, 1.5); (485824.2, 3756626.3, 0.0, 1.5);
(485874.2, 3756712.8, 0.0, 1.5); (485924.2, 3756799.3, 0.0, 1.5);
(485974.2, 3756886.0, 0.0, 1.5); (486024.2, 3756972.5, 0.0, 1.5);
(486074.2, 3757059.3, 0.0, 1.5); (486124.2, 3757145.8, 0.0, 1.5);
(486174.2, 3757232.3, 0.0, 1.5); (486224.2, 3757319.0, 0.0, 1.5);
(486274.2, 3757405.5, 0.0, 1.5); (486324.2, 3757492.3, 0.0, 1.5);
(486374.2, 3757578.8, 0.0, 1.5); (486424.2, 3757665.5, 0.0, 1.5);
(486474.2, 3757752.0, 0.0, 1.5); (486524.2, 3757838.5, 0.0, 1.5);
(485217.1, 3755470.3, 0.0, 1.5); (485281.3, 3755547.0, 0.0, 1.5);
(485345.6, 3755623.5, 0.0, 1.5); (485409.9, 3755700.3, 0.0, 1.5);
(485474.2, 3755776.8, 0.0, 1.5); (485538.5, 3755853.3, 0.0, 1.5);
(485602.8, 3755930.0, 0.0, 1.5); (485667.0, 3756006.5, 0.0, 1.5);
(485731.3, 3756083.3, 0.0, 1.5); (485795.6, 3756159.8, 0.0, 1.5);
(485859.8, 3756236.3, 0.0, 1.5); (485924.1, 3756313.0, 0.0, 1.5);
(485988.4, 3756389.5, 0.0, 1.5); (486052.7, 3756466.3, 0.0, 1.5);
(486117.0, 3756542.8, 0.0, 1.5); (486181.3, 3756619.5, 0.0, 1.5);
(486245.5, 3756696.0, 0.0, 1.5); (486309.8, 3756772.5, 0.0, 1.5);
(486374.1, 3756849.3, 0.0, 1.5); (486438.4, 3756925.8, 0.0, 1.5);
(486502.6, 3757002.5, 0.0, 1.5); (486566.9, 3757079.0, 0.0, 1.5);
(486631.2, 3757155.5, 0.0, 1.5); (486695.5, 3757232.3, 0.0, 1.5);
(486759.8, 3757308.8, 0.0, 1.5); (486824.0, 3757385.5, 0.0, 1.5);
(486888.3, 3757462.0, 0.0, 1.5); (486952.6, 3757538.8, 0.0, 1.5);
(485330.7, 3755497.8, 0.0, 1.5); (485407.3, 3755562.0, 0.0, 1.5);
(485483.9, 3755626.3, 0.0, 1.5); (485560.3, 3755690.5, 0.0, 1.5);
(485637.1, 3755754.8, 0.0, 1.5); (485713.7, 3755819.0, 0.0, 1.5);
(485790.3, 3755883.3, 0.0, 1.5); (485866.9, 3755947.5, 0.0, 1.5);
(485943.5, 3756011.8, 0.0, 1.5); (486020.1, 3756076.3, 0.0, 1.5);
(486096.7, 3756140.5, 0.0, 1.5); (486173.3, 3756204.8, 0.0, 1.5);
(486249.9, 3756269.0, 0.0, 1.5); (486326.5, 3756333.3, 0.0, 1.5);
(486403.1, 3756397.5, 0.0, 1.5); (486479.7, 3756461.8, 0.0, 1.5);
(486556.3, 3756526.0, 0.0, 1.5); (486632.9, 3756590.3, 0.0, 1.5);
(486709.5, 3756654.8, 0.0, 1.5); (486786.1, 3756719.0, 0.0, 1.5);
(486862.8, 3756783.3, 0.0, 1.5); (486939.3, 3756847.5, 0.0, 1.5);
(487015.9, 3756911.8, 0.0, 1.5); (487092.6, 3756976.0, 0.0, 1.5);
(487169.2, 3757040.3, 0.0, 1.5); (487245.8, 3757104.5, 0.0, 1.5);
(487322.4, 3757168.8, 0.0, 1.5); (485457.3, 3755490.5, 0.0, 1.5);
(485543.8, 3755540.5, 0.0, 1.5); (485630.4, 3755590.5, 0.0, 1.5);
(485717.1, 3755640.5, 0.0, 1.5); (485803.7, 3755690.5, 0.0, 1.5);
(485890.3, 3755740.5, 0.0, 1.5); (485976.9, 3755790.5, 0.0, 1.5);
(486063.5, 3755840.5, 0.0, 1.5); (486150.1, 3755890.5, 0.0, 1.5);
(486236.7, 3755940.5, 0.0, 1.5); (486323.3, 3755990.5, 0.0, 1.5);
(486409.9, 3756040.5, 0.0, 1.5); (486496.5, 3756090.5, 0.0, 1.5);

**MODELOPTS: PAGE 42
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(486583.1, 3756140.5, 0.0, 1.5); (486669.7, 3756190.5, 0.0, 1.5);
(486756.3, 3756240.5, 0.0, 1.5); (486842.9, 3756290.5, 0.0, 1.5);
(486929.5, 3756340.5, 0.0, 1.5); (487016.1, 3756390.5, 0.0, 1.5);
(487102.7, 3756440.5, 0.0, 1.5); (487189.3, 3756490.5, 0.0, 1.5);
(487275.9, 3756540.5, 0.0, 1.5); (487362.5, 3756590.5, 0.0, 1.5);
(487449.1, 3756640.5, 0.0, 1.5); (487535.7, 3756690.5, 0.0, 1.5);
(487622.3, 3756740.5, 0.0, 1.5); (485400.1, 3755377.3, 0.0, 1.5);
(485494.1, 3755411.5, 0.0, 1.5); (485268.9, 3755002.0, 0.0, 1.5);
(485682.0, 3755480.0, 0.0, 1.5); (485776.0, 375514.3, 0.0, 1.5);
(485869.9, 3755548.3, 0.0, 1.5); (485963.9, 3755582.5, 0.0, 1.5);
(486057.9, 3755616.8, 0.0, 1.5); (486151.9, 3755651.0, 0.0, 1.5);
(486245.8, 3755685.3, 0.0, 1.5); (486339.8, 3755719.3, 0.0, 1.5);
(486433.8, 3755753.5, 0.0, 1.5); (486527.8, 3755787.8, 0.0, 1.5);
(486621.7, 3755822.0, 0.0, 1.5); (486715.7, 3755856.3, 0.0, 1.5);
(486809.7, 3755890.3, 0.0, 1.5); (486903.6, 3755924.5, 0.0, 1.5);
(486997.6, 3755958.8, 0.0, 1.5); (487091.6, 3755993.0, 0.0, 1.5);
(487185.5, 3756027.3, 0.0, 1.5); (487279.5, 3756061.3, 0.0, 1.5);
(487373.5, 3756095.5, 0.0, 1.5); (487467.4, 3756129.8, 0.0, 1.5);
(487561.4, 3756164.0, 0.0, 1.5); (487655.4, 3756198.3, 0.0, 1.5);
(487749.3, 3756232.3, 0.0, 1.5); (487843.3, 3756266.5, 0.0, 1.5);
(485418.2, 3755310.0, 0.0, 1.5); (485615.1, 3755344.8, 0.0, 1.5);
(485713.6, 3755362.0, 0.0, 1.5); (485812.1, 3755379.5, 0.0, 1.5);
(485910.6, 3755396.8, 0.0, 1.5); (486009.0, 3755414.3, 0.0, 1.5);
(486107.5, 3755431.5, 0.0, 1.5); (486206.0, 3755449.0, 0.0, 1.5);
(486304.5, 3755466.3, 0.0, 1.5); (486403.0, 3755483.5, 0.0, 1.5);
(486501.4, 3755501.0, 0.0, 1.5); (486599.9, 3755518.3, 0.0, 1.5);
(486698.4, 3755535.8, 0.0, 1.5); (486796.9, 3755553.0, 0.0, 1.5);
(486895.4, 3755570.5, 0.0, 1.5); (486993.8, 3755587.8, 0.0, 1.5);
(487092.3, 3755605.3, 0.0, 1.5); (487190.8, 3755622.5, 0.0, 1.5);
(487289.3, 3755640.0, 0.0, 1.5); (487387.8, 3755657.3, 0.0, 1.5);
(487486.3, 3755674.8, 0.0, 1.5); (487584.7, 3755692.0, 0.0, 1.5);
(487683.2, 3755709.3, 0.0, 1.5); (487781.7, 3755726.8, 0.0, 1.5);
(487880.2, 3755744.0, 0.0, 1.5); (487978.7, 3755761.5, 0.0, 1.5);
(485324.2, 3755240.5, 0.0, 1.5); (485424.2, 3755240.5, 0.0, 1.5);
(485524.2, 3755240.5, 0.0, 1.5); (485624.2, 3755240.5, 0.0, 1.5);
(485724.2, 3755240.5, 0.0, 1.5); (485824.2, 3755240.5, 0.0, 1.5);
(485924.2, 3755240.5, 0.0, 1.5); (486024.2, 3755240.5, 0.0, 1.5);
(486124.2, 3755240.5, 0.0, 1.5); (486224.2, 3755240.5, 0.0, 1.5);
(486324.2, 3755240.5, 0.0, 1.5); (486424.2, 3755240.5, 0.0, 1.5);
(486524.2, 3755240.5, 0.0, 1.5); (486624.2, 3755240.5, 0.0, 1.5);
(486724.2, 3755240.5, 0.0, 1.5); (486824.2, 3755240.5, 0.0, 1.5);
(486924.2, 3755240.5, 0.0, 1.5); (487024.2, 3755240.5, 0.0, 1.5);
(487124.2, 3755240.5, 0.0, 1.5); (487224.2, 3755240.5, 0.0, 1.5);
(487324.2, 3755240.5, 0.0, 1.5); (487424.2, 3755240.5, 0.0, 1.5);
(487524.2, 3755240.5, 0.0, 1.5); (487624.2, 3755240.5, 0.0, 1.5);

**MODELOPTS: PAGE 43
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(487724.2, 3755240.5, 0.0, 1.5); (487824.2, 3755240.5, 0.0, 1.5);
(487924.2, 3755240.5, 0.0, 1.5); (488024.2, 3755240.5, 0.0, 1.5);
(485418.2, 3755171.0, 0.0, 1.5); (485615.1, 3755136.3, 0.0, 1.5);
(485713.6, 3755119.0, 0.0, 1.5); (485812.1, 3755101.5, 0.0, 1.5);
(485910.6, 3755084.3, 0.0, 1.5); (486009.0, 3755066.8, 0.0, 1.5);
(486107.5, 3755049.5, 0.0, 1.5); (486206.0, 3755032.3, 0.0, 1.5);
(486304.5, 3755014.8, 0.0, 1.5); (486403.0, 3754997.5, 0.0, 1.5);
(486501.4, 3754980.0, 0.0, 1.5); (486599.9, 3754962.8, 0.0, 1.5);
(486698.4, 3754945.3, 0.0, 1.5); (486796.9, 3754928.0, 0.0, 1.5);
(486895.4, 3754910.5, 0.0, 1.5); (486993.8, 3754893.3, 0.0, 1.5);
(487092.3, 3754875.8, 0.0, 1.5); (487190.8, 3754858.5, 0.0, 1.5);
(487289.3, 3754841.0, 0.0, 1.5); (487387.8, 3754823.8, 0.0, 1.5);
(487486.3, 3754806.5, 0.0, 1.5); (487584.7, 3754789.0, 0.0, 1.5);
(487683.2, 3754771.8, 0.0, 1.5); (487781.7, 3754754.3, 0.0, 1.5);
(487880.2, 3754737.0, 0.0, 1.5); (487978.7, 3754719.5, 0.0, 1.5);
(485400.1, 3755103.8, 0.0, 1.5); (485494.1, 3755069.5, 0.0, 1.5);
(485588.1, 3755035.3, 0.0, 1.5); (485682.0, 3755001.0, 0.0, 1.5);
(485776.0, 3754967.0, 0.0, 1.5); (485869.9, 3754932.8, 0.0, 1.5);
(485963.9, 3754898.5, 0.0, 1.5); (486057.9, 3754864.3, 0.0, 1.5);
(486151.9, 3754830.0, 0.0, 1.5); (486245.8, 3754796.0, 0.0, 1.5);
(486339.8, 3754761.8, 0.0, 1.5); (486433.8, 3754727.5, 0.0, 1.5);
(486527.8, 3754693.3, 0.0, 1.5); (486621.7, 3754659.0, 0.0, 1.5);
(486715.7, 3754624.8, 0.0, 1.5); (486809.7, 3754590.8, 0.0, 1.5);
(486903.6, 3754556.5, 0.0, 1.5); (486997.6, 3754522.3, 0.0, 1.5);
(487091.6, 3754488.0, 0.0, 1.5); (487185.5, 3754453.8, 0.0, 1.5);
(487279.5, 3754419.8, 0.0, 1.5); (487373.5, 3754385.5, 0.0, 1.5);
(487467.4, 3754351.3, 0.0, 1.5); (487561.4, 3754317.0, 0.0, 1.5);
(487655.4, 3754282.8, 0.0, 1.5); (487749.3, 3754248.8, 0.0, 1.5);
(487843.3, 3754214.5, 0.0, 1.5); (485457.3, 3754990.5, 0.0, 1.5);
(485543.8, 3754940.5, 0.0, 1.5); (485630.4, 3754890.5, 0.0, 1.5);
(485717.1, 3754840.5, 0.0, 1.5); (485803.7, 3754790.5, 0.0, 1.5);
(485890.3, 3754740.5, 0.0, 1.5); (485976.9, 3754690.5, 0.0, 1.5);
(486063.5, 3754640.5, 0.0, 1.5); (486150.1, 3754590.5, 0.0, 1.5);
(486236.7, 3754540.5, 0.0, 1.5); (486323.3, 3754490.5, 0.0, 1.5);
(486409.9, 3754440.5, 0.0, 1.5); (486496.5, 3754390.5, 0.0, 1.5);
(486583.1, 3754340.5, 0.0, 1.5); (486669.7, 3754290.5, 0.0, 1.5);
(486756.3, 3754240.5, 0.0, 1.5); (486842.9, 3754190.5, 0.0, 1.5);
(486929.5, 3754140.5, 0.0, 1.5); (487016.1, 3754090.5, 0.0, 1.5);
(487102.7, 3754040.5, 0.0, 1.5); (487189.3, 3753990.5, 0.0, 1.5);
(487275.9, 3753940.5, 0.0, 1.5); (487362.5, 3753890.5, 0.0, 1.5);
(487449.1, 3753840.5, 0.0, 1.5); (487535.7, 3753790.5, 0.0, 1.5);
(487622.3, 3753740.5, 0.0, 1.5); (485330.7, 3754983.5, 0.0, 1.5);
(485407.3, 3754919.0, 0.0, 1.5); (485483.9, 3754854.8, 0.0, 1.5);
(485560.5, 3754790.5, 0.0, 1.5); (485637.1, 3754726.3, 0.0, 1.5);
(485713.7, 3754662.0, 0.0, 1.5); (485790.3, 3754597.8, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 44
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485866.9, 3754533.5, 0.0, 1.5); (485943.5, 3754469.3, 0.0, 1.5);
(486020.1, 3754405.0, 0.0, 1.5); (486096.7, 3754340.5, 0.0, 1.5);
(486173.3, 3754276.3, 0.0, 1.5); (486249.9, 3754212.0, 0.0, 1.5);
(486326.5, 3754147.8, 0.0, 1.5); (486403.1, 3754083.5, 0.0, 1.5);
(486479.7, 3754019.3, 0.0, 1.5); (486556.3, 3753955.0, 0.0, 1.5);
(486632.9, 3753890.8, 0.0, 1.5); (486709.5, 3753826.5, 0.0, 1.5);
(486786.1, 3753762.0, 0.0, 1.5); (486862.8, 3753697.8, 0.0, 1.5);
(486939.3, 3753633.5, 0.0, 1.5); (487015.9, 3753569.3, 0.0, 1.5);
(487092.6, 3753505.0, 0.0, 1.5); (487169.2, 3753440.8, 0.0, 1.5);
(487245.8, 3753376.5, 0.0, 1.5); (487322.4, 3753312.3, 0.0, 1.5);
(485217.1, 3755010.8, 0.0, 1.5); (485281.3, 3754934.0, 0.0, 1.5);
(485345.6, 3754857.5, 0.0, 1.5); (485409.9, 3754781.0, 0.0, 1.5);
(485474.2, 3754704.3, 0.0, 1.5); (485538.5, 3754627.8, 0.0, 1.5);
(485602.8, 3754551.0, 0.0, 1.5); (485667.0, 3754474.5, 0.0, 1.5);
(485731.3, 3754397.8, 0.0, 1.5); (485795.6, 3754321.3, 0.0, 1.5);
(485859.8, 3754244.8, 0.0, 1.5); (485924.1, 3754168.0, 0.0, 1.5);
(485988.4, 3754091.5, 0.0, 1.5); (486052.7, 3754014.8, 0.0, 1.5);
(486117.0, 3753938.3, 0.0, 1.5); (486181.3, 3753861.8, 0.0, 1.5);
(486245.5, 3753785.0, 0.0, 1.5); (486309.8, 3753708.5, 0.0, 1.5);
(486374.1, 3753631.8, 0.0, 1.5); (486438.4, 3753555.3, 0.0, 1.5);
(486502.6, 3753478.5, 0.0, 1.5); (486566.9, 3753402.0, 0.0, 1.5);
(486631.2, 3753325.5, 0.0, 1.5); (486695.5, 3753248.8, 0.0, 1.5);
(486759.8, 3753172.3, 0.0, 1.5); (486824.0, 3753095.5, 0.0, 1.5);
(486888.3, 3753019.0, 0.0, 1.5); (486952.6, 3752942.5, 0.0, 1.5);
(485174.2, 3754980.8, 0.0, 1.5); (485224.2, 3754894.0, 0.0, 1.5);
(485274.2, 3754807.5, 0.0, 1.5); (485324.2, 3754721.0, 0.0, 1.5);
(485374.2, 3754634.3, 0.0, 1.5); (485424.2, 3754547.8, 0.0, 1.5);
(485474.2, 3754461.0, 0.0, 1.5); (485524.2, 3754374.5, 0.0, 1.5);
(485574.2, 3754288.0, 0.0, 1.5); (485624.2, 3754201.3, 0.0, 1.5);
(485674.2, 3754114.8, 0.0, 1.5); (485724.2, 3754028.0, 0.0, 1.5);
(485774.2, 3753941.5, 0.0, 1.5); (485824.2, 3753854.8, 0.0, 1.5);
(485874.2, 3753768.3, 0.0, 1.5); (485924.2, 3753681.8, 0.0, 1.5);
(485974.2, 3753595.0, 0.0, 1.5); (486024.2, 3753508.5, 0.0, 1.5);
(486074.2, 3753421.8, 0.0, 1.5); (486124.2, 3753335.3, 0.0, 1.5);
(486174.2, 3753248.8, 0.0, 1.5); (486224.2, 3753162.0, 0.0, 1.5);
(486274.2, 3753075.5, 0.0, 1.5); (486324.2, 3752988.8, 0.0, 1.5);
(486374.2, 3752902.3, 0.0, 1.5); (486424.2, 3752815.8, 0.0, 1.5);
(486474.2, 3752729.0, 0.0, 1.5); (486524.2, 3752642.5, 0.0, 1.5);
(485126.8, 3754958.5, 0.0, 1.5); (485161.0, 3754864.8, 0.0, 1.5);
(485195.3, 3754770.8, 0.0, 1.5); (485229.4, 3754676.8, 0.0, 1.5);
(485263.6, 3754582.8, 0.0, 1.5); (485297.8, 3754488.8, 0.0, 1.5);
(485332.1, 3754394.8, 0.0, 1.5); (485366.3, 3754300.8, 0.0, 1.5);
(485400.4, 3754206.8, 0.0, 1.5); (485434.7, 3754113.0, 0.0, 1.5);
(485468.9, 3754019.0, 0.0, 1.5); (485503.1, 3753925.0, 0.0, 1.5);
(485537.3, 3753831.0, 0.0, 1.5); (485571.5, 3753737.0, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 45
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485605.7, 3753643.0, 0.0, 1.5); (485639.9, 3753549.0, 0.0, 1.5);
(485674.1, 3753455.0, 0.0, 1.5); (485708.3, 3753361.0, 0.0, 1.5);
(485742.5, 3753267.3, 0.0, 1.5); (485776.7, 3753173.3, 0.0, 1.5);
(485810.9, 3753079.3, 0.0, 1.5); (485845.1, 3752985.3, 0.0, 1.5);
(485879.3, 3752891.3, 0.0, 1.5); (485913.5, 3752797.3, 0.0, 1.5);
(485947.7, 3752703.3, 0.0, 1.5); (485981.9, 3752609.3, 0.0, 1.5);
(486016.1, 3752515.5, 0.0, 1.5); (486050.3, 3752421.5, 0.0, 1.5);
(485076.3, 3754945.0, 0.0, 1.5); (485093.7, 3754846.5, 0.0, 1.5);
(485111.1, 3754748.0, 0.0, 1.5); (485128.4, 3754649.8, 0.0, 1.5);
(485145.8, 3754551.3, 0.0, 1.5); (485163.2, 3754452.8, 0.0, 1.5);
(485180.5, 3754354.3, 0.0, 1.5); (485197.9, 3754255.8, 0.0, 1.5);
(485215.3, 3754157.3, 0.0, 1.5); (485232.6, 3754058.8, 0.0, 1.5);
(485250.0, 3753960.3, 0.0, 1.5); (485267.3, 3753861.8, 0.0, 1.5);
(485284.7, 3753763.3, 0.0, 1.5); (485302.1, 3753664.8, 0.0, 1.5);
(485319.4, 3753566.3, 0.0, 1.5); (485336.8, 3753467.8, 0.0, 1.5);
(485354.2, 3753369.5, 0.0, 1.5); (485371.5, 3753271.0, 0.0, 1.5);
(485388.9, 3753172.5, 0.0, 1.5); (485406.3, 3753074.0, 0.0, 1.5);
(485423.6, 3752975.5, 0.0, 1.5); (485441.0, 3752877.0, 0.0, 1.5);
(485458.3, 3752778.5, 0.0, 1.5); (485475.7, 3752680.0, 0.0, 1.5);
(485493.1, 3752581.5, 0.0, 1.5); (485510.4, 3752483.0, 0.0, 1.5);
(485527.8, 3752384.5, 0.0, 1.5); (485545.2, 3752286.0, 0.0, 1.5);
(485024.2, 3754940.5, 0.0, 1.5); (485024.2, 3754840.5, 0.0, 1.5);
(485024.2, 3754740.5, 0.0, 1.5); (485024.2, 3754640.5, 0.0, 1.5);
(485024.2, 3754540.5, 0.0, 1.5); (485024.2, 3754440.5, 0.0, 1.5);
(485024.2, 3754340.5, 0.0, 1.5); (485024.2, 3754240.5, 0.0, 1.5);
(485024.2, 3754140.5, 0.0, 1.5); (485024.2, 3754040.5, 0.0, 1.5);
(485024.2, 3753940.5, 0.0, 1.5); (485024.2, 3753840.5, 0.0, 1.5);
(485024.2, 3753740.5, 0.0, 1.5); (485024.2, 3753640.5, 0.0, 1.5);
(485024.2, 3753540.5, 0.0, 1.5); (485024.2, 3753440.5, 0.0, 1.5);
(485024.2, 3753340.5, 0.0, 1.5); (485024.2, 3753240.5, 0.0, 1.5);
(485024.2, 3753140.5, 0.0, 1.5); (485024.2, 3753040.5, 0.0, 1.5);
(485024.2, 3752940.5, 0.0, 1.5); (485024.2, 3752840.5, 0.0, 1.5);
(485024.2, 3752740.5, 0.0, 1.5); (485024.2, 3752640.5, 0.0, 1.5);
(485024.2, 3752540.5, 0.0, 1.5); (485024.2, 3752440.5, 0.0, 1.5);
(485024.2, 3752340.5, 0.0, 1.5); (485024.2, 3752240.5, 0.0, 1.5);
(484972.1, 3754945.0, 0.0, 1.5); (484954.8, 3754846.5, 0.0, 1.5);
(484937.4, 3754748.0, 0.0, 1.5); (484920.0, 3754649.8, 0.0, 1.5);
(484902.7, 3754551.3, 0.0, 1.5); (484885.3, 3754452.8, 0.0, 1.5);
(484867.9, 3754354.3, 0.0, 1.5); (484850.6, 3754255.8, 0.0, 1.5);
(484833.2, 3754157.3, 0.0, 1.5); (484815.8, 3754058.8, 0.0, 1.5);
(484798.5, 3753960.3, 0.0, 1.5); (484781.1, 3753861.8, 0.0, 1.5);
(484763.8, 3753763.3, 0.0, 1.5); (484746.4, 3753664.8, 0.0, 1.5);
(484729.0, 3753566.3, 0.0, 1.5); (484711.7, 3753467.8, 0.0, 1.5);
(484694.3, 3753369.5, 0.0, 1.5); (484676.9, 3753271.0, 0.0, 1.5);
(484659.6, 3753172.5, 0.0, 1.5); (484642.2, 3753074.0, 0.0, 1.5);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(484624.8, 3752975.5, 0.0, 1.5);	(484607.5, 3752877.0, 0.0, 1.5);
(484590.1, 3752778.5, 0.0, 1.5);	(484572.8, 3752680.0, 0.0, 1.5);
(484555.4, 3752581.5, 0.0, 1.5);	(484538.0, 3752483.0, 0.0, 1.5);
(484520.7, 3752384.5, 0.0, 1.5);	(484503.3, 3752286.0, 0.0, 1.5);
(484492.1, 3754958.5, 0.0, 1.5);	(484887.4, 3754864.8, 0.0, 1.5);
(484853.2, 3754770.8, 0.0, 1.5);	(484819.0, 3754676.8, 0.0, 1.5);
(484784.8, 3754582.8, 0.0, 1.5);	(484750.6, 3754488.8, 0.0, 1.5);
(484716.4, 3754394.8, 0.0, 1.5);	(484682.2, 3754300.8, 0.0, 1.5);
(484648.0, 3754206.8, 0.0, 1.5);	(484613.8, 3754113.0, 0.0, 1.5);
(484579.6, 3754019.0, 0.0, 1.5);	(484545.4, 3753925.0, 0.0, 1.5);
(484511.2, 3753831.0, 0.0, 1.5);	(484477.0, 3753737.0, 0.0, 1.5);
(484442.8, 3753643.0, 0.0, 1.5);	(484408.6, 3753549.0, 0.0, 1.5);
(484374.4, 3753455.0, 0.0, 1.5);	(484340.2, 3753361.0, 0.0, 1.5);
(484306.0, 3753267.3, 0.0, 1.5);	(484271.8, 3753173.3, 0.0, 1.5);
(484237.6, 3753079.3, 0.0, 1.5);	(484203.4, 3752985.3, 0.0, 1.5);
(484169.2, 3752891.3, 0.0, 1.5);	(484135.0, 3752797.3, 0.0, 1.5);
(484100.8, 3752703.3, 0.0, 1.5);	(484066.6, 3752609.3, 0.0, 1.5);
(484032.4, 3752515.5, 0.0, 1.5);	(483998.2, 3752421.5, 0.0, 1.5);
(484874.2, 3754980.8, 0.0, 1.5);	(484824.2, 3754894.0, 0.0, 1.5);
(484774.2, 3754807.5, 0.0, 1.5);	(484724.2, 3754721.0, 0.0, 1.5);
(484674.2, 3754634.3, 0.0, 1.5);	(484624.2, 3754547.8, 0.0, 1.5);
(484574.2, 3754461.0, 0.0, 1.5);	(484524.2, 3754374.5, 0.0, 1.5);
(484474.2, 3754288.0, 0.0, 1.5);	(484424.2, 3754201.3, 0.0, 1.5);
(484374.2, 3754114.8, 0.0, 1.5);	(484324.2, 3754028.0, 0.0, 1.5);
(484274.2, 3753941.5, 0.0, 1.5);	(484224.2, 3753854.8, 0.0, 1.5);
(484174.2, 3753768.3, 0.0, 1.5);	(484124.2, 3753681.8, 0.0, 1.5);
(484074.2, 3753595.0, 0.0, 1.5);	(484024.2, 3753508.5, 0.0, 1.5);
(483974.2, 3753421.8, 0.0, 1.5);	(483924.2, 3753335.3, 0.0, 1.5);
(483874.2, 3753248.8, 0.0, 1.5);	(483824.2, 3753162.0, 0.0, 1.5);
(483774.2, 3753075.5, 0.0, 1.5);	(483724.2, 3752988.8, 0.0, 1.5);
(483674.2, 3752902.3, 0.0, 1.5);	(483624.2, 3752815.8, 0.0, 1.5);
(483574.2, 3752729.0, 0.0, 1.5);	(483524.2, 3752642.5, 0.0, 1.5);
(484767.1, 3754934.0, 0.0, 1.5);	(484702.8, 3754857.5, 0.0, 1.5);
(484638.6, 3754781.0, 0.0, 1.5);	(484574.3, 3754704.3, 0.0, 1.5);
(484510.0, 3754627.8, 0.0, 1.5);	(484445.7, 3754551.0, 0.0, 1.5);
(484381.4, 3754474.5, 0.0, 1.5);	(484317.2, 3754397.8, 0.0, 1.5);
(484252.9, 3754321.3, 0.0, 1.5);	(484188.6, 3754244.8, 0.0, 1.5);
(484124.3, 3754168.0, 0.0, 1.5);	(484060.1, 3754091.5, 0.0, 1.5);
(483995.8, 3754014.8, 0.0, 1.5);	(483931.5, 3753938.3, 0.0, 1.5);
(483867.2, 3753861.8, 0.0, 1.5);	(483802.9, 3753785.0, 0.0, 1.5);
(483738.7, 3753708.5, 0.0, 1.5);	(483674.4, 3753631.8, 0.0, 1.5);
(483610.1, 3753555.3, 0.0, 1.5);	(483545.8, 3753478.5, 0.0, 1.5);
(483481.5, 3753402.0, 0.0, 1.5);	(483417.3, 3753325.5, 0.0, 1.5);
(483353.0, 3753248.8, 0.0, 1.5);	(483288.7, 3753172.3, 0.0, 1.5);
(483224.4, 3753095.5, 0.0, 1.5);	(483160.2, 3753019.0, 0.0, 1.5);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(483095.9, 3752942.5, 0.0, 1.5);	(484717.8, 3754983.5, 0.0, 1.5);
(484641.2, 3754919.0, 0.0, 1.5);	(484564.6, 3754854.8, 0.0, 1.5);
(484488.0, 3754790.5, 0.0, 1.5);	(484411.4, 3754726.3, 0.0, 1.5);
(484334.8, 3754662.0, 0.0, 1.5);	(484258.2, 3754597.8, 0.0, 1.5);
(484181.6, 3754533.5, 0.0, 1.5);	(484105.0, 3754469.3, 0.0, 1.5);
(484028.4, 3754405.0, 0.0, 1.5);	(483951.8, 3754340.5, 0.0, 1.5);
(483875.2, 3754276.3, 0.0, 1.5);	(483798.6, 3754212.0, 0.0, 1.5);
(483721.9, 3754147.8, 0.0, 1.5);	(483645.3, 3754083.5, 0.0, 1.5);
(483568.8, 3754019.3, 0.0, 1.5);	(483492.1, 3753955.0, 0.0, 1.5);
(483415.5, 3753890.8, 0.0, 1.5);	(483338.9, 3753826.5, 0.0, 1.5);
(483262.3, 3753762.0, 0.0, 1.5);	(483185.7, 3753697.8, 0.0, 1.5);
(483109.1, 3753633.5, 0.0, 1.5);	(483032.5, 3753569.3, 0.0, 1.5);
(482955.9, 3753505.0, 0.0, 1.5);	(482879.3, 3753440.8, 0.0, 1.5);
(482802.7, 3753376.5, 0.0, 1.5);	(482726.1, 3753312.3, 0.0, 1.5);
(484677.8, 3755040.5, 0.0, 1.5);	(484591.2, 3754990.5, 0.0, 1.5);
(484504.6, 3754940.5, 0.0, 1.5);	(484418.0, 3754890.5, 0.0, 1.5);
(484331.4, 3754840.5, 0.0, 1.5);	(484244.8, 3754790.5, 0.0, 1.5);
(484158.2, 3754740.5, 0.0, 1.5);	(484071.6, 3754690.5, 0.0, 1.5);
(483985.0, 3754640.5, 0.0, 1.5);	(483898.4, 3754590.5, 0.0, 1.5);
(483811.8, 3754540.5, 0.0, 1.5);	(483725.2, 3754490.5, 0.0, 1.5);
(483638.6, 3754440.5, 0.0, 1.5);	(483552.0, 3754390.5, 0.0, 1.5);
(483465.4, 3754340.5, 0.0, 1.5);	(483378.8, 3754290.5, 0.0, 1.5);
(483292.2, 3754240.5, 0.0, 1.5);	(483205.6, 3754190.5, 0.0, 1.5);
(483119.0, 3754140.5, 0.0, 1.5);	(483032.4, 3754090.5, 0.0, 1.5);
(482945.8, 3754040.5, 0.0, 1.5);	(482859.2, 3753990.5, 0.0, 1.5);
(482772.6, 3753940.5, 0.0, 1.5);	(482686.0, 3753890.5, 0.0, 1.5);
(482599.4, 3753840.5, 0.0, 1.5);	(482512.8, 3753790.5, 0.0, 1.5);
(482426.2, 3753740.5, 0.0, 1.5);	(484648.3, 3755103.8, 0.0, 1.5);
(484554.4, 3755069.5, 0.0, 1.5);	(484460.4, 3755035.3, 0.0, 1.5);
(484366.4, 3755001.0, 0.0, 1.5);	(484272.5, 3754967.0, 0.0, 1.5);
(484178.5, 3754932.8, 0.0, 1.5);	(484084.5, 3754898.5, 0.0, 1.5);
(483990.6, 3754864.3, 0.0, 1.5);	(483896.6, 3754830.0, 0.0, 1.5);
(483802.6, 3754796.0, 0.0, 1.5);	(483708.7, 3754761.8, 0.0, 1.5);
(483614.7, 3754727.5, 0.0, 1.5);	(483520.7, 3754693.3, 0.0, 1.5);
(483426.8, 3754659.0, 0.0, 1.5);	(483332.8, 3754624.8, 0.0, 1.5);
(483238.8, 3754590.8, 0.0, 1.5);	(483144.8, 3754556.5, 0.0, 1.5);
(483050.9, 3754522.3, 0.0, 1.5);	(482956.9, 3754488.0, 0.0, 1.5);
(482862.9, 3754453.8, 0.0, 1.5);	(482769.0, 3754419.8, 0.0, 1.5);
(482675.0, 3754385.5, 0.0, 1.5);	(482581.0, 3754351.3, 0.0, 1.5);
(482487.1, 3754317.0, 0.0, 1.5);	(482393.1, 3754282.8, 0.0, 1.5);
(482299.1, 3754248.8, 0.0, 1.5);	(482205.2, 3754214.5, 0.0, 1.5);
(484630.3, 3755171.0, 0.0, 1.5);	(484531.8, 3755153.8, 0.0, 1.5);
(484433.3, 3755136.3, 0.0, 1.5);	(484334.9, 3755119.0, 0.0, 1.5);
(484236.4, 3755101.5, 0.0, 1.5);	(484137.9, 3755084.3, 0.0, 1.5);
(484039.4, 3755066.8, 0.0, 1.5);	(483940.9, 3755049.5, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

MODELLOPTS: * West Ridge HRA *** 09:47:24
PAGE 48
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(483842.5, 3755032.3, 0.0, 1.5);	(483744.0, 3755014.8, 0.0, 1.5);
(483645.5, 3754997.5, 0.0, 1.5);	(483547.0, 3754980.0, 0.0, 1.5);
(483448.5, 3754962.8, 0.0, 1.5);	(483350.1, 3754945.3, 0.0, 1.5);
(483251.6, 3754928.0, 0.0, 1.5);	(483153.1, 3754910.5, 0.0, 1.5);
(483054.6, 3754893.3, 0.0, 1.5);	(482956.1, 3754875.8, 0.0, 1.5);
(482857.7, 3754858.5, 0.0, 1.5);	(482759.2, 3754841.0, 0.0, 1.5);
(482660.7, 3754823.8, 0.0, 1.5);	(482562.2, 3754806.5, 0.0, 1.5);
(482463.7, 3754789.0, 0.0, 1.5);	(482365.3, 3754771.8, 0.0, 1.5);
(482266.8, 3754754.3, 0.0, 1.5);	(482168.3, 3754737.0, 0.0, 1.5);
(482069.8, 3754719.5, 0.0, 1.5);	(481971.3, 3754702.3, 0.0, 1.5);
(481872.8, 3754684.8, 0.0, 1.5);	(481774.3, 3754667.5, 0.0, 1.5);
(481675.8, 3754650.0, 0.0, 1.5);	(481577.3, 3754632.8, 0.0, 1.5);
(481478.8, 3754615.3, 0.0, 1.5);	(481380.3, 3754608.0, 0.0, 1.5);
(481281.8, 3754580.5, 0.0, 1.5);	(481183.3, 3754573.3, 0.0, 1.5);
(481084.8, 3754545.8, 0.0, 1.5);	(480986.3, 3754538.5, 0.0, 1.5);
(480887.8, 3754511.0, 0.0, 1.5);	(480789.3, 3754503.8, 0.0, 1.5);
(480690.8, 3754476.3, 0.0, 1.5);	(480592.3, 3754489.0, 0.0, 1.5);
(480493.8, 3754441.5, 0.0, 1.5);	(480395.3, 3754454.3, 0.0, 1.5);
(480296.8, 3754406.8, 0.0, 1.5);	(480198.3, 3754419.5, 0.0, 1.5);
(480100.0, 3754372.0, 0.0, 1.5);	(479999.3, 3754384.8, 0.0, 1.5);
(479903.0, 3754337.3, 0.0, 1.5);	(479802.3, 3754350.0, 0.0, 1.5);
(479706.0, 3754302.5, 0.0, 1.5);	(479605.3, 3754315.3, 0.0, 1.5);
(479509.0, 3754267.8, 0.0, 1.5);	(479408.3, 3754280.5, 0.0, 1.5);
(479312.0, 3754233.0, 0.0, 1.5);	(479211.3, 3754245.8, 0.0, 1.5);
(479115.0, 3754208.3, 0.0, 1.5);	(478999.3, 3754211.0, 0.0, 1.5);
(478918.0, 3754173.5, 0.0, 1.5);	(478802.3, 3754176.3, 0.0, 1.5);
(478721.0, 3754138.8, 0.0, 1.5);	(478605.3, 3754141.5, 0.0, 1.5);
(478524.0, 3754104.0, 0.0, 1.5);	(478408.3, 3754106.8, 0.0, 1.5);
(478327.0, 3754069.3, 0.0, 1.5);	(478211.3, 3754072.0, 0.0, 1.5);
(478130.0, 3754034.5, 0.0, 1.5);	(478014.3, 3754037.3, 0.0, 1.5);
(477933.0, 3754000.0, 0.0, 1.5);	(477817.3, 3753992.5, 0.0, 1.5);
(477736.0, 3753965.3, 0.0, 1.5);	(477620.3, 3753957.8, 0.0, 1.5);
(477539.0, 3753930.5, 0.0, 1.5);	(477423.3, 3753923.0, 0.0, 1.5);
(477342.0, 3753895.8, 0.0, 1.5);	(477226.3, 3753888.3, 0.0, 1.5);
(477145.0, 3753861.0, 0.0, 1.5);	(477029.3, 3753853.5, 0.0, 1.5);
(476948.0, 3753826.3, 0.0, 1.5);	(476832.3, 3753818.8, 0.0, 1.5);
(476751.0, 3753791.5, 0.0, 1.5);	(476635.3, 3753784.0, 0.0, 1.5);
(476554.0, 3753756.8, 0.0, 1.5);	(476438.3, 3753749.3, 0.0, 1.5);
(476357.0, 3753722.0, 0.0, 1.5);	(476241.3, 3753714.5, 0.0, 1.5);
(476160.0, 3753687.3, 0.0, 1.5);	(476044.3, 3753679.8, 0.0, 1.5);
(475963.0, 3753652.5, 0.0, 1.5);	(475847.3, 3753645.0, 0.0, 1.5);
(475766.0, 3753617.8, 0.0, 1.5);	(475650.3, 3753610.3, 0.0, 1.5);
(475569.0, 3753583.0, 0.0, 1.5);	(475453.3, 3753575.5, 0.0, 1.5);
(475372.0, 3753548.3, 0.0, 1.5);	(475256.3, 3753540.8, 0.0, 1.5);
(475175.0, 3753513.5, 0.0, 1.5);	(475059.3, 3753506.0, 0.0, 1.5);
(474978.0, 3753478.8, 0.0, 1.5);	(474862.3, 3753471.3, 0.0, 1.5);
(474781.0, 3753444.0, 0.0, 1.5);	(474665.3, 3753436.5, 0.0, 1.5);
(474584.0, 3753409.3, 0.0, 1.5);	(474468.3, 3753401.8, 0.0, 1.5);
(474387.0, 3753374.5, 0.0, 1.5);	(474271.3, 3753367.0, 0.0, 1.5);
(474190.0, 3753339.8, 0.0, 1.5);	(474074.3, 3753332.3, 0.0, 1.5);
(473993.0, 3753305.0, 0.0, 1.5);	(473877.3, 3753297.5, 0.0, 1.5);
(473796.0, 3753270.3, 0.0, 1.5);	(473680.3, 3753262.8, 0.0, 1.5);
(473599.0, 3753235.5, 0.0, 1.5);	(473483.3, 3753228.0, 0.0, 1.5);
(473402.0, 3753200.8, 0.0, 1.5);	(473286.3, 3753193.3, 0.0, 1.5);
(473205.0, 3753166.0, 0.0, 1.5);	(473089.3, 3753158.5, 0.0, 1.5);
(473008.0, 3753131.3, 0.0, 1.5);	(472892.3, 3753123.8, 0.0, 1.5);
(472811.0, 3753096.5, 0.0, 1.5);	(472695.3, 3753089.0, 0.0, 1.5);
(472614.0, 3753061.8, 0.0, 1.5);	(472498.3, 3753054.3, 0.0, 1.5);
(472417.0, 3753027.0, 0.0, 1.5);	(472301.3, 3753019.5, 0.0, 1.5);
(472220.0, 3752992.3, 0.0, 1.5);	(472104.3, 3752984.8, 0.0, 1.5);
(472023.0, 3752957.5, 0.0, 1.5);	(471907.3, 3752950.0, 0.0, 1.5);
(471826.0, 3752922.8, 0.0, 1.5);	(471710.3, 3752915.3, 0.0, 1.5);
(471629.0, 3752888.0, 0.0, 1.5);	(471513.3, 3752880.5, 0.0, 1.5);
(471432.0, 3752853.3, 0.0, 1.5);	(471316.3, 3752845.8, 0.0, 1.5);
(471235.0, 3752818.5, 0.0, 1.5);	(471119.3, 3752811.0, 0.0, 1.5);
(471038.0, 3752783.8, 0.0, 1.5);	(470922.3, 3752776.3, 0.0, 1.5);
(470841.0, 3752749.0, 0.0, 1.5);	(470725.3, 3752741.5, 0.0, 1.5);
(470644.0, 3752714.3, 0.0, 1.5);	(470528.3, 3752706.8, 0.0, 1.5);
(470447.0, 3752679.5, 0.0, 1.5);	(470331.3, 3752672.0, 0.0, 1.5);
(470250.0, 3752644.8, 0.0, 1.5);	(470134.3, 3752637.3, 0.0, 1.5);
(470053.0, 3752610.0, 0.0, 1.5);	(469937.3, 3752602.5, 0.0, 1.5);
(469856.0, 3752575.3, 0.0, 1.5);	(469740.3, 3752567.8, 0.0, 1.5);
(469659.0, 3752540.5, 0.0, 1.5);	(469543.3, 3752533.0, 0.0, 1.5);
(469462.0, 3752505.8, 0.0, 1.5);	(469346.3, 3752498.3, 0.0, 1.5);
(469265.0, 3752471.0, 0.0, 1.5);	(469149.3, 3752463.5, 0.0, 1.5);
(469068.0, 3752436.3, 0.0, 1.5);	(468952.3, 3752428.8, 0.0, 1.5);
(468871.0, 3752401.5, 0.0, 1.5);	(468755.3, 3752394.0, 0.0, 1.5);
(468674.0, 3752366.8, 0.0, 1.5);	(468558.3, 3752359.3, 0.0, 1.5);
(468477.0, 3752332.0, 0.0, 1.5);	(468361.3, 3752324.5, 0.0, 1.5);
(468280.0, 3752297.3, 0.0, 1.5);	(468164.3, 3752289.8, 0.0, 1.5);
(468083.0, 3752262.5, 0.0, 1.5);	(467967.3, 3752255.0, 0.0, 1.5);
(467886.0, 3752227.8, 0.0, 1.5);	(467770.3, 3752220.3, 0.0, 1.5);
(467689.0, 3752193.0, 0.0, 1.5);	(467573.3, 3752185.5, 0.0, 1.5);
(467492.0, 3752158.3, 0.0, 1.5);	(467376.3, 3752150.8, 0.0, 1.5);
(467295.0, 3752123.5, 0.0, 1.5);	(467179.3, 3752116.0, 0.0, 1.5);
(467100.0, 3752088.8, 0.0, 1.5);	(466982.3, 3752081.3, 0.0, 1.5);
(466905.0, 3752054.0, 0.0, 1.5);	(466785.3, 3752046.5, 0.0, 1.5);
(466710.0, 3752019.3, 0.0, 1.5);	(466588.3, 3752011.8, 0.0, 1.5);
(466515.0, 3751984.5, 0.0, 1.5);	(466391.3, 3751977.0, 0.0, 1.5);
(466320.0, 3751949.8, 0.0, 1.5);	(466194.3, 3751942.3, 0.0, 1.5);
(466125.0, 3751915.0, 0.0, 1.5);	(465997.3, 3751907.5, 0.0, 1.5);
(465930.0, 3751880.3, 0.0, 1.5);	(465800.3, 3751872.8, 0.0, 1.5);
(465735.0, 3751845.5, 0.0, 1.5);	(465603.3, 3751838.0, 0.0, 1.5);
(465540.0, 3751810.8, 0.0, 1.5);	(465406.3, 3751803.3, 0.0, 1.5);
(465345.0, 3751776.0, 0.0, 1.5);	(465209.3, 3751768.5, 0.0, 1.5);
(465150.0, 3751741.3, 0.0, 1.5);	(465012.3, 3751733.8, 0.0, 1.5);
(464955.0, 3751706.5, 0.0, 1.5);	(464815.3, 3751699.0, 0.0, 1.5);
(464760.0, 3751671.8, 0.0, 1.5);	(464618.3, 3751664.3, 0.0, 1.5);
(464565.0, 3751637.0, 0.0, 1.5);	(464421.3, 3751629.5, 0.0, 1.5);
(464370.0, 3751602.3, 0.0, 1.5);	(464224.3, 3751594.8, 0.0, 1.5);
(464175.0, 3751567.5, 0.0, 1.5);	(464027.3, 3751560.0, 0.0, 1.5);
(463980.0, 3751532.8, 0.0, 1.5);	(463830.3, 3751525.3, 0.0, 1.5);
(463785.0, 3751498.0, 0.0, 1.5);	(463633.3, 3751490.5, 0.0, 1.5);
(463590.0, 3751463.3, 0.0, 1.5);	(463436.3, 3751455.8, 0.0, 1.5);
(463395.0, 3751428.5, 0.0, 1.5);	(463239.3, 3751421.0, 0.0, 1.5);
(463200.0, 3751393.8, 0.0, 1.5);	(463042.3, 3751386.3, 0.0, 1.5);
(463005.0, 3751359.0, 0.0, 1.5);	(462845.3, 3751351.5, 0.0, 1.5);
(462810.0, 3751324.3, 0.0, 1.5);	(462648.3, 3751316.8, 0.0, 1.5);
(462615.0, 3751289.5, 0.0, 1.5);	(462451.3, 3751282.0, 0.0, 1.5);
(462420.0, 3751254.8, 0.0, 1.5);	(462254.3, 3751247.3, 0.0, 1.5);
(462225.0, 3751220.0, 0.0, 1.5);	(462057.3, 3751212.5, 0.0, 1.5);
(462030.0, 3751185.3, 0.0, 1.5);	(461860.3, 3751177.8, 0.0, 1.5);
(461835.0, 3751150.5, 0.0, 1.5);	(461663.3, 3751143.0, 0.0, 1.5);
(461640.0, 3751115.8, 0.0, 1.5);	(461466.3, 3751108.3, 0.0, 1.5);
(461445.0, 3751081.0, 0.0, 1.5);	(461269.3, 3751073.5, 0.0, 1.5);
(461250.0, 3751046.3, 0.0, 1.5);	(461072.3, 3751038.8, 0.0, 1.5);
(461055.0, 3751011.5, 0.0, 1.5);	(460875.3, 3751004.0, 0.0, 1.5);
(460860.0, 3750976.8, 0.0, 1.5);	(460678.3, 3750969.3, 0.0, 1.5);
(460665.0, 3750942.0, 0.0, 1.5);	(460481.3, 3750934.5, 0.0, 1.5);
(460470.0, 3750907.3, 0.0, 1.5);	(460284.3, 3750900.0, 0.0, 1.5);
(460275.0, 3750872.5, 0.0, 1.5);	(460087.3, 3750865.3, 0.0, 1.5);
(460080.0, 3750837.8, 0.0, 1.5);	(459890.3, 3750830.5, 0.0, 1.5);
(459885.0, 3750803.0, 0.0, 1.5);	(459693.3, 3750795.8, 0.0, 1.5);
(459690.0, 3750768.3, 0.0, 1.5);	(459496.3, 3750761.0, 0.0, 1.5);
(459495.0, 3750733.5, 0.0, 1.5);	(459299.3, 3750726.3, 0.0, 1.5);
(459300.0, 3750708.8, 0.0, 1.5);	(459102.3, 3750691.5, 0.0, 1.5);
(459105.0, 3750674.0, 0.0, 1.5);	(458905.3, 3750656.8, 0.0, 1.5);
(458910.0, 3750639.3, 0.0, 1.5);	(458708.3, 3750622.0, 0.0, 1.5);
(458715.0, 3750604.5, 0.0, 1.5);	(458511.3, 3750587.3, 0.0, 1.5);
(458520.0, 3750569.8, 0.0, 1.5);	(458314.3, 3750552.5, 0.0, 1.5);
(458325.0, 3750535.0, 0.0, 1.5);	(458117.3, 3750517.8, 0.0, 1.5);
(458130.0, 3750500.3, 0.0, 1.5);	(457920.3, 3750483.0, 0.0, 1.5);
(457935.0, 3750465.5, 0.0, 1.5);	(457723.3, 3750448.3, 0.0, 1.5);
(457740.0, 3750430.8, 0.0, 1.5);	(457526.3, 3750413.5, 0.0, 1.5);
(457545.0, 3750396.0, 0.0, 1.5);	(457329.3, 3750378.8, 0.0, 1.5);
(457350.0, 3750361.3, 0.0, 1.5);	(457132.3, 3750344.0, 0.0, 1.5);
(457155.0, 3750326.5, 0.0, 1.5);	(456935.3, 3750309.3, 0.0, 1.5);
(456960.0, 3750291.8, 0.0, 1.5);	(456738.3, 3750274.5, 0.0, 1.5);
(456765.0, 3750257.0, 0.0, 1.5);	(456541.3, 3750239.8, 0.0, 1.5);
(456570.0, 3750222.3, 0.0, 1.5);	(456344.3, 3750205.0, 0.0, 1.5);
(456375.0, 3750187.5, 0.0, 1.5);	(456147.3, 3750170.3, 0.0, 1.5);
(456180.0, 3750152.8, 0.0, 1.5);	(455950.3, 3750135.5, 0.0, 1.5);
(455985.0, 3750118.0, 0.0, 1.5);	(455753.3, 3750100.8, 0.0, 1.5);
(455790.0, 3750083.3, 0.0, 1.5);	(455556.3, 3750066.0, 0.0, 1.5);
(455595.0, 3750048.5, 0.0, 1.5);	(455359.3, 3750031.3, 0.0, 1.5);
(455400.0, 3750013.8, 0.0, 1.5);	(455162.3, 3749996.5, 0.0, 1.5);
(455205.0, 3749979.0, 0.0, 1.5);	(454965.3, 3749961.8, 0.0, 1.5);
(455010.0, 3749944.3, 0.0, 1.5);	(454768.3, 3749927.0, 0.0, 1.5);
(454815.0, 3749909.5, 0.0, 1.5);	(454571.3, 3749892.3, 0.0, 1.5);
(454620.0, 3749874.8, 0.0, 1.5);	(454374.3, 3749857.5, 0.0, 1.5);
(454425.0, 3749840.0, 0.0, 1.5);	(454177.3, 3749822.8, 0.0, 1.5);
(454230.0, 3749805.3, 0.0, 1.5);	(453980.3, 3749788.0, 0.0, 1.5);
(454035.0, 3749770.5, 0.0, 1.5);	(453783.3, 3749753.3, 0.0, 1.5);
(453840.0, 3749735.8, 0.0, 1.5);	(453586.3, 3749718.5, 0.0, 1.5);
(453645.0, 3749701.0, 0.0, 1.5);	(453389.3, 3749683.8, 0.0, 1.5);
(453450.0, 3749666.3, 0.0, 1.5);	(453192.3, 3749649.0, 0.0, 1.5);
(453255.0, 3749631.5, 0.0, 1.5);	

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24
**MODELOPTS: PAGE 50
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(483095.9, 3757538.8, 0.0, 1.5);	(484874.2, 3755500.3, 0.0, 1.5);
(484824.2, 3755587.0, 0.0, 1.5);	(484774.2, 3755673.5, 0.0, 1.5);
(484724.2, 3755760.3, 0.0, 1.5);	(484674.2, 3755846.8, 0.0, 1.5);
(484624.2, 3755933.3, 0.0, 1.5);	(484574.2, 3756020.0, 0.0, 1.5);
(484524.2, 3756106.5, 0.0, 1.5);	(484474.2, 3756193.3, 0.0, 1.5);
(484424.2, 3756279.8, 0.0, 1.5);	(484374.2, 3756366.3, 0.0, 1.5);
(484324.2, 3756453.0, 0.0, 1.5);	(484274.2, 3756539.5, 0.0, 1.5);
(484224.2, 3756626.3, 0.0, 1.5);	(484174.2, 3756712.8, 0.0, 1.5);
(484124.2, 3756799.3, 0.0, 1.5);	(484074.2, 3756886.0, 0.0, 1.5);
(484024.2, 3756972.5, 0.0, 1.5);	(483974.2, 3757059.3, 0.0, 1.5);
(483924.2, 3757145.8, 0.0, 1.5);	(483874.2, 3757232.3, 0.0, 1.5);
(483824.2, 3757319.0, 0.0, 1.5);	(483774.2, 3757405.5, 0.0, 1.5);
(483724.2, 3757492.3, 0.0, 1.5);	(483674.2, 3757578.8, 0.0, 1.5);
(483624.2, 3757665.5, 0.0, 1.5);	(483574.2, 3757752.0, 0.0, 1.5);
(483524.2, 3757838.5, 0.0, 1.5);	(483474.2, 3757925.3, 0.0, 1.5);
(483424.2, 3758011.8, 0.0, 1.5);	(483374.2, 3758098.5, 0.0, 1.5);
(483324.2, 3758185.0, 0.0, 1.5);	(483274.2, 3758271.8, 0.0, 1.5);
(483224.2, 3758358.3, 0.0, 1.5);	(483174.2, 3758445.0, 0.0, 1.5);
(483124.2, 3758531.5, 0.0, 1.5);	(483074.2, 3758618.3, 0.0, 1.5);
(483024.2, 3758704.8, 0.0, 1.5);	(482974.2, 3758791.5, 0.0, 1.5);
(482924.2, 3758878.0, 0.0, 1.5);	(482874.2, 3758964.8, 0.0, 1.5);
(482824.2, 3759051.3, 0.0, 1.5);	(482774.2, 3759138.0, 0.0, 1.5);
(482724.2, 3759224.5, 0.0, 1.5);	(482674.2, 3759311.3, 0.0, 1.5);
(482624.2, 3759397.8, 0.0, 1.5);	(482574.2, 3759484.5, 0.0, 1.5);
(482524.2, 3759571.0, 0.0, 1.5);	(482474.2, 3759657.8, 0.0, 1.5);
(482424.2, 3759744.3, 0.0, 1.5);	(482374.2, 3759831.0, 0.0, 1.5);
(482324.2, 3759917.5, 0.0, 1.5);	(482274.2, 3760004.3, 0.0, 1.5);
(482224.2, 3760090.8, 0.0, 1.5);	(482174.2, 3760177.5, 0.0, 1.5);
(482124.2, 3760264.0, 0.0, 1.5);	(482074.2, 3760350.8, 0.0, 1.5);
(482024.2, 3760437.3, 0.0, 1.5);	(481974.2, 3760524.0, 0.0, 1.5);
(481924.2, 3760610.5, 0.0, 1.5);	(481874.2, 3760697.3, 0.0, 1.5);
(481824.2, 3760783.8, 0.0, 1.5);	(481774.2, 3760870.5, 0.0, 1.5);
(481724.2, 3760957.0, 0.0, 1.5);	(481674.2, 3761043.8, 0.0, 1.5);
(481624.2, 3761130.3, 0.0, 1.5);	(481574.2, 3761217.0, 0.0, 1.5);
(481524.2, 3761303.5, 0.0, 1.5);	(481474.2, 3761390.3, 0.0, 1.5);
(481424.2, 3761476.8, 0.0, 1.5);	(481374.2, 3761563.5, 0.0, 1.5);
(481324.2, 3761650.0, 0.0, 1.5);	(481274.2, 3761736.8, 0.0, 1.5);
(481224.2, 3761823.3, 0.0, 1.5);	(481174.2, 3761910.0, 0.0, 1.5);
(481124.2, 3761996.5, 0.0, 1.5);	(481074.2, 3762083.3, 0.0, 1.5);
(481024.2, 3762169.8, 0.0, 1.5);	(480974.2, 3762256.5, 0.0, 1.5);
(480924.2, 3762343.0, 0.0, 1.5);	(480874.2, 3762429.8, 0.0, 1.5);
(480824.2, 3762516.3, 0.0, 1.5);	(480774.2, 3762603.0, 0.0, 1.5);
(480724.2, 3762689.5, 0.0, 1.5);	(480674.2, 3762776.3, 0.0, 1.5);
(480624.2, 3762862.8, 0.0, 1.5);	(480574.2, 3762949.5, 0.0, 1.5);
(480524.2, 3763036.0, 0.0, 1.5);	(480474.2, 3763122.8, 0.0, 1.5);
(480424.2, 3763209.3, 0.0, 1.5);	(480374.2, 3763296.0, 0.0, 1.5);
(480324.2, 3763382.5, 0.0, 1.5);	(480274.2, 3763469.3, 0.0, 1.5);
(480224.2, 3763555.8, 0.0, 1.5);	(480174.2, 3763642.5, 0.0, 1.5);
(480124.2, 3763729.0, 0.0, 1.5);	(480074.2, 3763815.8, 0.0, 1.5);
(480024.2, 3763902.3, 0.0, 1.5);	(479974.2, 3763989.0, 0.0, 1.5);
(479924.2, 3764075.5, 0.0, 1.5);	(479874.2, 3764162.3, 0.0, 1.5);
(479824.2, 3764248.8, 0.0, 1.5);	(479774.2, 3764335.5, 0.0, 1.5);
(479724.2, 3764422.0, 0.0, 1.5);	(479674.2, 3764508.8, 0.0, 1.5);
(479624.2, 3764595.3, 0.0, 1.5);	(479574.2, 3764682.0, 0.0, 1.5);
(479524.2, 3764768.5, 0.0, 1.5);	(479474.2, 3764855.3, 0.0, 1.5);
(479424.2, 3764941.8, 0.0, 1.5);	(479374.2, 3765028.5, 0.0, 1.5);
(479324.2, 3765115.0, 0.0, 1.5);	(479274.2, 3765201.8, 0.0, 1.5);
(479224.2, 3765288.3, 0.0, 1.5);	(479174.2, 3765375.0, 0.0, 1.5);
(479124.2, 3765461.5, 0.0, 1.5);	(479074.2, 3765548.3, 0.0, 1.5);
(479024.2, 3765634.8, 0.0, 1.5);	(478974.2, 3765721.5, 0.0, 1.5);
(478924.2, 3765808.0, 0.0, 1.5);	(478874.2, 3765894.8, 0.0, 1.5);
(478824.2, 3765981.3, 0.0, 1.5);	(478774.2, 3766068.0, 0.0, 1.5);
(478724.2, 3766154.5, 0.0, 1.5);	(478674.2, 3766241.3, 0.0, 1.5);
(478624.2, 3766327.8, 0.0, 1.5);	(478574.2, 3766414.5, 0.0, 1.5);
(478524.2, 3766491.0, 0.0, 1.5);	(478474.2, 3766587.8, 0.0, 1.5);
(478424.2, 3766664.3, 0.0, 1.5);	(478374.2, 3766761.0, 0.0, 1.5);
(478324.2, 3766837.5, 0.0, 1.5);	(478274.2, 3766934.3, 0.0, 1.5);
(478224.2, 3767010.8, 0.0, 1.5);	(478174.2, 3767107.5, 0.0, 1.5);
(478124.2, 3767184.0, 0.0, 1.5);	(478074.2, 3767280.8, 0.0, 1.5);
(478024.2, 3767357.3, 0.0, 1.5);	(477974.2, 3767454.0, 0.0, 1.5);
(477924.2, 3767530.5, 0.0, 1.5);	(477874.2, 3767627.3, 0.0, 1.5);
(477824.2, 3767703.8, 0.0, 1.5);	(477774.2, 3767800.5, 0.0, 1.5);
(477724.2, 3767877.0, 0.0, 1.5);	(477674.2, 3767973.8, 0.0, 1.5);
(477624.2, 3768050.3, 0.0, 1.5);	(477574.2, 3768147.0, 0.0, 1.5);
(477524.2, 3768223.5, 0.0, 1.5);	(477474.2, 3768320.3, 0.0, 1.5);
(477424.2, 3768396.8, 0.0, 1.5);	(477374.2, 3768493.5, 0.0, 1.5);
(477324.2, 3768570.0, 0.0, 1.5);	(477274.2, 3768666.8, 0.0, 1.5);
(477224.2, 3768743.3, 0.0, 1.5);	(477174.2, 3768840.0, 0.0, 1.5);
(477124.2, 3768916.5, 0.0, 1.5);	(477074.2, 3769013.3, 0.0, 1.5);
(477024.2, 3769089.8, 0.0, 1.5);	(476974.2, 3769186.5, 0.0, 1.5);
(476924.2, 3769263.0, 0.0, 1.5);	(476874.2, 3769359.8, 0.0, 1.5);
(476824.2, 3769436.3, 0.0, 1.5);	(476774.2, 3769533.0, 0.0, 1.5);
(476724.2, 3769609.5, 0.0, 1.5);	(476674.2, 3769706.3, 0.0, 1.5);
(476624.2, 3769782.8, 0.0, 1.5);	(476574.2, 3769879.5, 0.0, 1.5);
(476524.2, 3769956.0, 0.0, 1.5);	(476474.2, 3770052.8, 0.0, 1.5);
(476424.2, 3770129.3, 0.0, 1.5);	(476374.2, 3770226.0, 0.0, 1.5);
(476324.2, 3770302.5, 0.0, 1.5);	(476274.2, 3770399.3, 0.0, 1.5);
(476224.2, 3770475.8, 0.0, 1.5);	(476174.2, 3770572.5, 0.0, 1.5);
(476124.2, 3770649.0, 0.0, 1.5);	(476074.2, 3770745.8, 0.0, 1.5);
(476024.2, 3770822.3, 0.0, 1.5);	(475974.2, 3770919.0, 0.0, 1.5);
(475924.2, 3770995.5, 0.0, 1.5);	(475874.2, 3771092.3, 0.0, 1.5);
(475824.2, 3771168.8, 0.0, 1.5);	(475774.2, 3771265.5, 0.0, 1.5);
(475724.2, 3771342.0, 0.0, 1.5);	(475674.2, 3771438.8, 0.0, 1.5);
(475624.2, 3771515.3, 0.0, 1.5);	(475574.2, 3771612.0, 0.0, 1.5);
(475524.2, 3771688.5, 0.0, 1.5);	(475474.2, 3771785.3, 0.0, 1.5);
(475424.2, 3771861.8, 0.0, 1.5);	(475374.2, 3771958.5, 0.0, 1.5);
(475324.2, 3772035.0, 0.0, 1.5);	(475274.2, 3772131.8, 0.0, 1.5);
(475224.2, 3772208.3, 0.0, 1.5);	(475174.2, 3772305.0, 0.0, 1.5);
(475124.2, 3772381.5, 0.0, 1.5);	(475074.2, 3772478.3, 0.0, 1.5);
(475024.2, 3772554.8, 0.0, 1.5);	(474974.2, 3772651.5, 0.0, 1.5);
(474924.2, 3772728.0, 0.0, 1.5);	(474874.2, 3772824.8, 0.0, 1.5);
(474824.2, 3772901.3, 0.0, 1.5);	(474774.2, 3772998.0, 0.0, 1.5);
(474724.2, 3773074.5, 0.0, 1.5);	(474674.2, 3773171.3, 0.0, 1.5);
(474624.2, 3773247.8, 0.0, 1.5);	(474574.2, 3773344.5, 0.0, 1.5);
(474524.2, 3773421.0, 0.0, 1.5);	(474474.2, 3773517.8, 0.0, 1.5);
(474424.2, 3773594.3, 0.0, 1.5);	(474374.2, 3773691.0, 0.0, 1.5);
(474324.2, 3773767.5, 0.0, 1.5);	(474274.2, 3773864.3, 0.0, 1.5);
(474224.2, 3773940.8, 0.0, 1.5);	(474174.2, 3774037.5, 0.0, 1.5);
(474124.2, 3774114.0, 0.0, 1.5);	(474074.2, 3774210.8, 0.0, 1.5);
(474024.2, 3774287.3, 0.0, 1.5);	(473974.2, 3774384.0, 0.0, 1.5);
(473924.2, 3774460.5, 0.0, 1.5);	(473874.2, 3774557.3, 0.0, 1.5);
(473824.2, 3774633.8, 0.0, 1.5);	(473774.2, 3774730.5, 0.0, 1.5);
(473724.2, 3774807.0, 0.0, 1.5);	(473674.2, 3774903.8, 0.0, 1.5);
(473624.2, 3774980.3, 0.0, 1.5);	(473574.2, 3775077.0, 0.0, 1.5);
(473524.2, 3775153.5, 0.0, 1.5);	(473474.2, 3775250.3, 0.0, 1.5);
(473424.2, 3775326.8, 0.0, 1.5);	(473374.2, 3775423.5, 0.0, 1.5);
(473324.2, 3775500.0, 0.0, 1.5);	(473274.2, 3775596.8, 0.0, 1.5);
(473224.2, 3775673.3, 0.0, 1.5);	(473174.2, 3775770.0, 0.0, 1.5);
(473124.2, 3775846.5, 0.0, 1.5);	(473074.2, 3775943.3, 0.0, 1.5);
(473024.2, 3776019.8, 0.0, 1.5);	(472974.2, 3776116.5, 0.0, 1.5);
(472924.2, 3776193.0, 0.0, 1.5);	(472874.2, 3776289.8, 0.0, 1.5);
(472824.2, 3776366.3, 0.0, 1.5);	(472774.2, 3776463.0, 0.0, 1.5);
(472724.2, 3776539.5, 0.0, 1.5);	(472674.2, 3776636.3, 0.0, 1.5);
(472624.2, 3776712.8, 0.0, 1.5);	(472574.2, 3776809.5, 0.0, 1.5);
(472524.2, 3776886.0, 0.0, 1.5);	(472474.2, 3776982.8, 0.0, 1.5);
(472424.2, 3777059.3, 0.0, 1.5);	(472374.2, 3777156.0, 0.0, 1.5);
(472324.2, 3777232.3, 0.0, 1.5);	(472274.2, 3777329.3, 0.0, 1.5);
(472224.2, 3777405.5, 0.0, 1.5);	(472174.2, 3777502.5, 0.0, 1.5);
(472124.2, 3777578.8, 0.0, 1.5);	(472074.2, 3777675.8, 0.0, 1.5);
(472024.2, 3777752.0, 0.0, 1.5);	(471974.2, 3777849.0, 0.0, 1.5);
(471924.2, 3777925.3, 0.0, 1.5);	(471874.2, 3778022.3, 0.0, 1.5);
(471824.2, 3778098.5, 0.0, 1.5);	(471774.2, 3778195.5, 0.0, 1.5);
(471724.2, 3778271.8, 0.0, 1.5);	(471674.2, 3778368.8, 0.0, 1.5);
(471624.2, 3778445.0, 0.0, 1.5);	(471574.2, 3778542.0, 0.0, 1.5);
(471524.2, 3778618.3, 0.0, 1.5);	(471474.2, 3778715.3, 0.0, 1.5);
(471424.2, 3778791.5, 0.0, 1.5);	(471374.2, 3778888.5, 0.0, 1.5);
(471324.2, 3778964.8, 0.0, 1.5);	(471274.2, 3779061.8, 0.0, 1.5);
(471224.2, 3779138.0, 0.0, 1.5);	(471174.2, 3779235.0, 0.0, 1.5);
(471124.2, 3779311.3, 0.0, 1.5);	(471074.2, 3779408.3, 0.0, 1.5);
(471024.2, 3779484.5, 0.0, 1.5);	(470974.2, 3779581.5, 0.0, 1.5);
(470924.2, 3779657.8, 0.0, 1.5);	(470874.2, 3779754.8, 0.0, 1.5);
(470824.2, 3779831.0, 0.0, 1.5);	(470774.2, 3779928.0, 0.0, 1.5);
(470724.2, 3780004.3, 0.0, 1.5);	(470674.2, 3780101.3, 0.0, 1.5);
(470624.2, 3780177.5, 0.0, 1.5);	(470574.2, 3780274.5, 0.0, 1.5);
(470524.2, 3780349.8, 0.0, 1.5);	(470474.2, 3780447.8, 0.0, 1.5);
(470424.2, 3780523.0, 0.0, 1.5);	(470374.2, 3780621.0, 0.0, 1.5);
(470324.2, 3780696.3, 0.0, 1.5);	(470274.2, 3780794.3, 0.0, 1.5);
(470224.2, 3780869.5, 0.0, 1.5);	(470174.2, 3780967.5, 0.0, 1.5);
(470124.2, 3781042.8, 0.0, 1.5);	(470074.2, 3781140.8, 0.0, 1.5);
(470024.2, 3781216.0, 0.0, 1.5);	(469974.2, 3781314.0, 0.0, 1.5);
(469924.2, 3781389.3, 0.0, 1.5);	(469874.2, 3781487.3, 0.0, 1.5);
(469824.2, 3781562.5, 0.0, 1.5);	(469774.2, 3781660.5, 0.0, 1.5);
(469724.2, 3781735.8, 0.0, 1.5);	(469674.2, 3781833.8, 0.0, 1.5);
(469624.2, 3781909.0, 0.0, 1.5);	(469574.2, 3782007.0, 0.0, 1.5);
(469524.2, 3782082.3, 0.0, 1.5);	(469474.2, 3782180.3, 0.0, 1.5);
(469424.2, 3782255.5, 0.0, 1.5);	(469374.2, 3782353.5, 0.0, 1.5);
(469324.2, 3782428.8, 0.0, 1.5	

*** ISCT3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 54
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485024.22	3755540.50	0.01356	485024.22	3755640.50	0.00693
485024.22	3755740.50	0.00407	485024.22	3755840.50	0.00267
485024.22	3755940.50	0.00197	485024.22	3756040.50	0.00154
485024.22	3756140.50	0.00125	485024.22	3756240.50	0.00103
485024.22	3756340.50	0.00088	485024.22	3756440.50	0.00076
485024.22	3756540.50	0.00066	485024.22	3756640.50	0.00059
485024.22	3756740.50	0.00052	485024.22	3756840.50	0.00047
485024.22	3756940.50	0.00042	485024.22	3757040.50	0.00039
485024.22	3757140.50	0.00035	485024.22	3757240.50	0.00032
485024.22	3757340.50	0.00030	485024.22	3757440.50	0.00028
485024.22	3757540.50	0.00026	485024.22	3757640.50	0.00024
485024.22	3757740.50	0.00022	485024.22	3757840.50	0.00021
485024.22	3757940.50	0.00020	485024.22	3758040.50	0.00019
485024.22	3758140.50	0.00018	485024.22	3758240.50	0.00017
485076.31	3755536.00	0.01268	485093.69	3755634.50	0.00657
485111.06	3755733.00	0.00373	485128.41	3755831.50	0.00245
485145.78	3755930.00	0.00179	485163.16	3756028.25	0.00138
485180.50	3756126.75	0.00112	485197.88	3756225.25	0.00094
485215.25	3756323.75	0.00080	485232.63	3756422.25	0.00069
485249.97	3756520.75	0.00061	485267.34	3756619.25	0.00054
485284.69	3756717.75	0.00048	485302.06	3756816.25	0.00043
485319.44	3756914.75	0.00039	485336.81	3757013.25	0.00035
485354.16	3757111.75	0.00032	485371.53	3757210.25	0.00030
485388.88	3757308.50	0.00027	485406.25	3757407.00	0.00025
485423.63	3757505.50	0.00024	485441.00	3757604.00	0.00022
485458.34	3757702.50	0.00021	485475.72	3757801.00	0.00019
485493.09	3757899.50	0.00018	485510.44	3757998.00	0.00017
485527.81	3758096.50	0.00016	485545.16	3758195.00	0.00016
485126.84	3755522.50	0.01284	485161.03	3755616.50	0.00666
485195.25	3755710.25	0.00363	485229.44	3755804.25	0.00238
485263.63	3755898.25	0.00173	485297.84	3755992.25	0.00135
485332.06	3756086.25	0.00109	485366.25	3756180.25	0.00090
485400.44	3756274.25	0.00075	485434.66	3756368.25	0.00064
485468.88	3756462.00	0.00055	485503.06	3756556.00	0.00048
485537.25	3756650.00	0.00042	485571.47	3756744.00	0.00037
485605.66	3756838.00	0.00034	485639.88	3756932.00	0.00030
485674.06	3757026.00	0.00028	485708.28	3757120.00	0.00025
485742.47	3757213.75	0.00023	485776.66	3757307.75	0.00021
485810.88	3757401.75	0.00020	485845.09	3757495.75	0.00018
485879.28	3757589.75	0.00017	485913.47	3757683.75	0.00016

*** ISCT3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 55
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485947.69	3757777.75	0.00015	485981.88	3757871.75	0.00014
486016.09	3757965.50	0.00013	486050.28	3758059.50	0.00013
485174.22	3755500.25	0.01410	485224.22	3755587.00	0.00726
485274.22	3755673.50	0.00375	485324.22	3755760.25	0.00247
485374.22	3755846.75	0.00184	485424.22	3755933.25	0.00142
485474.22	3756020.00	0.00113	485524.22	3756106.50	0.00092
485574.22	3756193.25	0.00077	485624.22	3756279.75	0.00066
485674.22	3756366.25	0.00057	485724.22	3756453.00	0.00050
485774.22	3756539.50	0.00044	485824.22	3756626.25	0.00039
485874.22	3756712.75	0.00035	485924.22	3756799.25	0.00032
485974.22	3756886.00	0.00029	486024.22	3756972.50	0.00026
486074.22	3757059.25	0.00024	486124.22	3757145.75	0.00022
486174.22	3757232.25	0.00021	486224.22	3757319.00	0.00019
486274.22	3757405.50	0.00018	486324.22	3757492.25	0.00017
486374.22	3757578.75	0.00016	486424.22	3757665.50	0.00015
486474.22	3757752.00	0.00014	486524.22	3757838.50	0.00013
486574.22	3757925.25	0.00012	486624.22	3758011.75	0.00012
486674.22	3758098.50	0.00010	486724.22	3758185.00	0.00010
486774.22	3758281.75	0.00008	486824.22	3758358.25	0.00008
486874.22	3758465.00	0.00006	486924.22	3758531.50	0.00006
486974.22	3758648.25	0.00004	487024.22	3758704.75	0.00004
487074.22	3758831.50	0.00003	487124.22	3758878.00	0.00003
487174.22	3759014.75	0.00002	487224.22	3759051.25	0.00002
487274.22	3759198.00	0.00001	487324.22	3759224.50	0.00001
487374.22	3759381.25	0.00000	487424.22	3759397.75	0.00000
487474.22	3759564.50	0.00000	487524.22	3759571.00	0.00000
487574.22	3759747.75	0.00000	487624.22	3759744.25	0.00000
487674.22	3759931.00	0.00000	487724.22	3759917.50	0.00000
487774.22	3760114.25	0.00000	487824.22	3760090.75	0.00000
487874.22	3760297.50	0.00000	487924.22	3760264.00	0.00000
487974.22	3760480.75	0.00000	488024.22	3760437.25	0.00000
488074.22	3760664.00	0.00000	488124.22	3760610.50	0.00000
488174.22	3760847.25	0.00000	488224.22	3760783.75	0.00000
488274.22	3761030.50	0.00000	488324.22	3760957.00	0.00000
488374.22	3761213.75	0.00000	488424.22	3761130.25	0.00000
488474.22	3761397.00	0.00000	488524.22	3761303.50	0.00000
488574.22	3761580.25	0.00000	488624.22	3761476.75	0.00000
488674.22	3761763.50	0.00000	488724.22	3761650.00	0.00000
488774.22	3761946.75	0.00000	488824.22	3761823.25	0.00000
488874.22	3762130.00	0.00000	488924.22	3761996.50	0.00000
488974.22	3762313.25	0.00000	489024.22	3762169.75	0.00000
489074.22	3762496.50	0.00000	489124.22	3762343.00	0.00000
489174.22	3762679.75	0.00000	489224.22	3762516.25	0.00000
489274.22	3762863.00	0.00000	489324.22	3762689.50	0.00000
489374.22	3763046.25	0.00000	489424.22	3762862.75	0.00000
489474.22	3763229.50	0.00000	489524.22	3763036.00	0.00000
489574.22	3763412.75	0.00000	489624.22	3763209.25	0.00000
489674.22	3763596.00	0.00000	489724.22	3763382.50	0.00000
489774.22	3763779.25	0.00000	489824.22	3763555.75	0.00000
489874.22	3763962.50	0.00000	489924.22	3763729.00	0.00000
489974.22	3764145.75	0.00000	490024.22	3763902.25	0.00000
490074.22	3764329.00	0.00000	490124.22	3764075.50	0.00000
490174.22	3764512.25	0.00000	490224.22	3764248.75	0.00000
490274.22	3764695.50	0.00000	490324.22	3764422.00	0.00000
490374.22	3764878.75	0.00000	490424.22	3764595.25	0.00000
490474.22	3765062.00	0.00000	490524.22	3764768.50	0.00000
490574.22	3765245.25	0.00000	490624.22	3764941.75	0.00000
490674.22	3765428.50	0.00000	490724.22	3765115.00	0.00000
490774.22	3765611.75	0.00000	490824.22	3765288.25	0.00000
490874.22	3765795.00	0.00000	490924.22	3765461.50	0.00000
490974.22	3765978.25	0.00000	491024.22	3765634.75	0.00000
491074.22	3766161.50	0.00000	491124.22	3765808.00	0.00000
491174.22	3766344.75	0.00000	491224.22	3765981.25	0.00000
491274.22	3766528.00	0.00000	491324.22	3766154.50	0.00000
491374.22	3766711.25	0.00000	491424.22	3766327.75	0.00000
491474.22	3766894.50	0.00000	491524.22	3766501.00	0.00000
491574.22	3767077.75	0.00000	491624.22	3766674.25	0.00000
491674.22	3767261.00	0.00000	491724.22	3766847.50	0.00000
491774.22	3767444.25	0.00000	491824.22	3767020.75	0.00000
491874.22	3767627.50	0.00000	491924.22	3767194.00	0.00000
491974.22	3767810.75	0.00000	492024.22	3767367.25	0.00000
492074.22	3767994.00	0.00000	492124.22	3767540.50	0.00000
492174.22	3768177.25	0.00000	492224.22	3767713.75	0.00000
492274.22	3768360.50	0.00000	492324.22	3767887.00	0.00000
492374.22	3768543.75	0.00000	492424.22	3768060.25	0.00000
492474.22	3768727.00	0.00000	492524.22	3768233.50	0.00000
492574.22	3768910.25	0.00000	492624.22	3768406.75	0.00000
492674.22	3769093.50	0.00000	492724.22	3768580.00	0.00000
492774.22	3769276.75	0.00000	492824.22	3768753.25	0.00000
492874.22	3769460.00	0.00000	492924.22	3768926.50	0.00000
492974.22	3769643.25	0.00000	493024.22	3769100.00	0.00000
493074.22	3769826.50	0.00000	493124.22	3769273.25	0.00000
493174.22	3770009.75	0.00000	493224.22	3769446.50	0.00000
493274.22	3770193.00	0.00000	493324.22	3769619.75	0.00000
493374.22	3770376.25	0.00000	493424.22	3769793.00	0.00000
493474.22	3770559.50	0.00000	493524.22	3769966.25	

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 56
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486862.75	3756783.25	0.00026	486939.34	3756847.50	0.00024
487015.94	3756911.75	0.00023	487092.56	3756976.00	0.00022
487169.16	3757040.25	0.00020	487245.75	3757104.50	0.00019
487322.38	3757168.75	0.00018	485457.25	3755490.50	0.01029
485543.84	3755540.50	0.00457	485630.44	3755590.50	0.00298
485717.06	3755640.50	0.00220	485803.66	3755690.50	0.00173
485890.25	3755740.50	0.00140	485976.88	3755790.50	0.00117
486063.47	3755840.50	0.00099	486150.06	3755890.50	0.00086
486236.66	3755940.50	0.00075	486323.28	3755990.50	0.00066
486409.88	3756040.50	0.00059	486496.47	3756090.50	0.00053
486583.09	3756140.50	0.00048	486669.69	3756190.50	0.00044
486756.28	3756240.50	0.00040	486842.88	3756290.50	0.00037
486929.50	3756340.50	0.00034	487016.09	3756390.50	0.00032
487102.69	3756440.50	0.00030	487189.28	3756490.50	0.00028
487275.91	3756540.50	0.00026	487362.50	3756590.50	0.00025
487449.09	3756640.50	0.00023	487535.69	3756690.50	0.00022
487622.31	3756740.50	0.00021	485400.13	3755377.25	0.02567
485494.09	3755411.50	0.01693	485268.91	3755002.00	0.02931
485682.00	3755480.00	0.00473	485775.97	3755514.25	0.00326
485869.94	3755548.25	0.00245	485963.91	3755582.50	0.00193
486057.88	3755616.75	0.00157	486151.88	3755651.00	0.00131
486245.84	3755685.25	0.00111	486339.81	3755719.25	0.00096
486433.78	3755753.50	0.00084	486527.75	3755787.75	0.00074
486621.72	3755822.00	0.00066	486715.69	3755856.25	0.00059
486809.66	3755890.25	0.00054	486903.63	3755924.50	0.00049
486997.59	3755958.75	0.00045	487091.56	3755993.00	0.00041
487185.53	3756027.25	0.00038	487279.50	3756061.25	0.00036
487373.47	3756095.50	0.00033	487467.44	3756129.75	0.00031
487561.41	3756164.00	0.00029	487655.38	3756198.25	0.00027
487749.34	3756232.25	0.00026	487843.31	3756266.50	0.00025
485418.16	3755330.00	0.03002	485615.13	3755344.75	0.01343
485713.59	3755362.00	0.00744	485812.09	3755379.50	0.00493
485910.56	3755396.75	0.00365	486009.03	3755414.25	0.00288
486107.53	3755431.50	0.00236	486206.00	3755449.00	0.00199
486304.47	3755466.25	0.00171	486402.97	3755483.50	0.00149
486501.44	3755501.00	0.00132	486599.91	3755518.25	0.00118
486698.41	3755535.75	0.00106	486796.88	3755553.00	0.00096
486895.38	3755570.50	0.00088	486993.84	3755587.75	0.00081
487092.34	3755605.25	0.00075	487190.81	3755622.50	0.00070
487289.28	3755640.00	0.00065	487387.78	3755657.25	0.00061

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 57
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487486.25	3755674.75	0.00057	487584.72	3755692.00	0.00054
487683.22	3755709.25	0.00051	487781.69	3755726.75	0.00048
487880.16	3755744.00	0.00046	487978.66	3755761.50	0.00043
485324.22	3755240.50	0.03268	485424.22	3755240.50	0.03151
485524.22	3755240.50	0.01527	485624.22	3755240.50	0.01510
485724.22	3755240.50	0.00965	485824.22	3755240.50	0.00691
485924.22	3755240.50	0.00525	486024.22	3755240.50	0.00416
486124.22	3755240.50	0.00340	486224.22	3755240.50	0.00286
486324.22	3755240.50	0.00245	486424.22	3755240.50	0.00213
486524.22	3755240.50	0.00187	486624.22	3755240.50	0.00166
486724.22	3755240.50	0.00149	486824.22	3755240.50	0.00134
486924.22	3755240.50	0.00122	487024.22	3755240.50	0.00112
487124.22	3755240.50	0.00102	487224.22	3755240.50	0.00095
487324.22	3755240.50	0.00088	487424.22	3755240.50	0.00082
487524.22	3755240.50	0.00076	487624.22	3755240.50	0.00071
487724.22	3755240.50	0.00067	487824.22	3755240.50	0.00063
487924.22	3755240.50	0.00060	488024.22	3755240.50	0.00056
485418.16	3755171.00	0.03220	485615.13	3755136.25	0.01720
485713.59	3755119.00	0.01119	485812.09	3755101.50	0.00824
485910.56	3755084.25	0.00640	486009.03	3755066.75	0.00513
486107.53	3755049.50	0.00422	486206.00	3755032.25	0.00355
486304.47	3755014.75	0.00303	486402.97	3754997.50	0.00263
486501.44	3754980.00	0.00231	486599.91	3754962.75	0.00205
486698.41	3754945.25	0.00184	486796.88	3754928.00	0.00166
486895.38	3754910.50	0.00151	486993.84	3754893.25	0.00138
487092.34	3754875.75	0.00127	487190.81	3754858.50	0.00118
487289.28	3754841.00	0.00109	487387.78	3754823.75	0.00102
487486.25	3754806.50	0.00095	487584.72	3754789.00	0.00090
487683.22	3754771.75	0.00084	487781.69	3754754.25	0.00080
487880.16	3754737.00	0.00075	487978.66	3754719.50	0.00071
485400.13	3755103.75	0.03696	485494.09	3755069.50	0.02452
485588.06	3755035.25	0.02134	485682.00	3755001.00	0.01216
485775.97	3754967.00	0.00858	485869.94	3754932.75	0.00660
485963.91	3754898.50	0.00533	486057.88	3754864.25	0.00443
486151.88	3754830.00	0.00376	486245.84	3754796.00	0.00325
486339.81	3754761.75	0.00285	486433.78	3754727.50	0.00252
486527.75	3754693.25	0.00225	486621.72	3754659.00	0.00203
486715.69	3754624.75	0.00184	486809.66	3754590.75	0.00168
486903.63	3754556.50	0.00154	486997.59	3754522.25	0.00142
487091.56	3754488.00	0.00131	487185.53	3754453.75	0.00122

**MODELOPTS: PAGE 58
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487279.50	3754419.75	0.00114	487373.47	3754385.50	0.00106
487467.44	3754351.25	0.00100	487561.41	3754317.00	0.00094
487655.38	3754282.75	0.00088	487749.34	3754248.75	0.00083
487843.31	3754214.50	0.00079	485457.25	3754990.50	0.02592
485543.84	3754940.50	0.01299	485630.44	3754890.50	0.00866
485717.06	3754840.50	0.00638	485803.66	3754790.50	0.00500
485890.25	3754740.50	0.00407	485976.88	3754690.50	0.00341
486063.47	3754640.50	0.00291	486150.06	3754590.50	0.00252
486236.66	3754540.50	0.00222	486323.28	3754490.50	0.00197
486409.88	3754440.50	0.00177	486496.47	3754390.50	0.00160
486583.09	3754340.50	0.00146	486669.69	3754290.50	0.00133
486756.28	3754240.50	0.00123	486842.88	3754190.50	0.00114
486929.50	3754140.50	0.00106	487016.09	3754090.50	0.00099
487102.69	3754040.50	0.00092	487189.28	3753990.50	0.00087
487275.91	3753940.50	0.00082	487362.50	3753890.50	0.00077
487449.09	3753840.50	0.00073	487535.69	3753790.50	0.00069
487622.31	3753740.50	0.00066	485330.66	3754983.50	0.02319
485407.25	3754919.00	0.01048	485483.88	3754854.75	0.00666
485560.47	3754790.50	0.00476	485637.06	3754726.25	0.00363
485713.66	3754662.00	0.00287	485790.28	3754597.75	0.00233
485866.88	3754533.50	0.00193	485943.47	3754469.25	0.00163
486020.09	3754405.00	0.00140	486096.69	3754340.50	0.00122
486173.31	3754276.25	0.00107	486249.91	3754212.00	0.00095
486326.50	3754147.75	0.00085	486403.13	3754083.50	0.00076
486479.72	3754019.25	0.00069	486556.31	3753955.00	0.00063
486632.91	3753890.75	0.00057	486709.53	3753826.50	0.00053
486786.13	3753762.00	0.00049	486862.75	3753697.75	0.00045
486939.34	3753633.50	0.00042	487015.94	3753569.25	0.00039
487092.56	3753505.00	0.00036	487169.16	3753440.75	0.00034
487245.75	3753376.50	0.00032	487322.38	3753312.25	0.00030
485217.06	3755010.75	0.03309	485281.34	3754934.00	0.01096
485345.63	3754857.50	0.00593	485409.91	3754781.00	0.00383
485474.19	3754704.25	0.00269	485538.47	3754627.75	0.00202
485602.75	3754551.00	0.00159	485667.03	3754474.50	0.00129
485731.31	3754397.75	0.00107	485795.59	3754321.25	0.00091
485859.84	3754244.75	0.00078	485924.13	3754168.00	0.00068
485988.41	3754091.50	0.00060	486052.69	3754014.75	0.00053
486116.97	3753938.25	0.00048	486181.25	3753861.75	0.00043
486245.53	3753785.00	0.00039	486309.81	3753708.50	0.00036
486374.09	3753631.75	0.00033	486438.38	3753555.25	0.00030

**MODELOPTS: PAGE 59
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486502.63	3753478.50	0.00028	486566.91	3753402.00	0.00026
486631.19	3753325.50	0.00024	486695.47	3753248.75	0.00023
486759.75	3753172.25	0.00021	486824.03	3753095.50	0.00020
486888.31	3753019.00	0.00019	486952.59	3752942.50	0.00018
485174.22	3754980.75	0.01873	485224.22	3754894.00	0.00698
485274.22	3754807.50	0.00372	485324.22	3754721.00	0.00237
485374.22	3754634.25	0.00167	485424.22	3754547.75	0.00125
485474.22	3754461.00	0.00097	485524.22	3754374.50	0.00078
485574.22	3754288.00	0.00065	485624.22	3754201.25	0.00054
485674.22	3754114.75	0.00047	485724.22	3754028.00	0.00040
485774.22	3753941.50	0.00035	485824.22	3753854.75	0.00031
485874.22	3753768.25	0.00028	485924.22	3753681.75	0.00025
485974.22	3753595.00	0.00022	486024.22	3753508.50	0.00020
486074.22	3753421.75	0.00018	486124.22	3753335.25	0.00017
486174.22	3753248.75	0.00016	486224.22	3753162.00	0.00014
486274.22	3753075.50	0.00013	486324.22	3752988.75	0.00012
486374.22	3752902.25	0.00012	486424.22	3752815.75	0.00011
486474.22	3752729.00	0.00010	486524.22	3752642.50	0.00010
485126.84	3754958.50	0.01265	485161.03	3754864.75	0.00488
485195.25	3754770.75	0.00261	485229.44	3754676.75	0.00163
485263.63	3754582.75	0.00113	485297.84	3754488.75	0.00084
485332.06	3754394.75	0.00064	485366.25	3754300.75	0.00051
485400.44	3754206.75	0.00041	485434.66	3754113.00	0.00034
485468.88	3754019.00	0.00029	485503.06	3753925.00	0.00025
485537.25	3753831.00	0.00022	485571.47	3753737.00	0.00019
485605.66	3753643.00	0.00017	485639.88	3753549.00	0.00015
485674.06	3753455.00	0.00014	485708.28	3753361.00	0.00013
485742.47	3753267.25	0.00012	485776.66	3753173.25	0.00011
485810.88	3753079.25	0.00010	485845.09	3752985.25	0.00009
485879.28	3752891.25	0.00009	485913.47	3752797.25	0.00008
485947.69	3752703.25	0.00008	485981.88	3752609.25	0.00007
486016.09	3752515.50	0.00007	486050.28	3752421.50	0.00006
485076.31	3754945.00	0.00975	485093.69	3754846.50	0.00382
485111.06	3754748.00	0.00201	485128.41	3754649.75	0.00124
485145.78	3754551.25	0.00084	485163.16	3754452.75	0.00061
485180.50	3754354.25	0.00047	485197.88	3754255.75	0.00037
485215.25	3754157.25	0.00030	485232.63	3754058.75	0.00025
485249.97	3753960.25	0.00021	485267.34	3753861.75	0.00018
485284.69	3753763.25	0.00016	485302.06	3753664.75	0.00014
485319.44	3753566.25	0.00012	485336.81	3753467.75	0.00011

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 60
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485354.16	3753369.50	0.00010	485371.53	3753271.00	0.00009
485388.88	3753172.50	0.00008	485406.25	3753074.00	0.00008
485423.63	3752975.50	0.00007	485441.00	3752877.00	0.00007
485458.34	3752778.50	0.00006	485475.72	3752680.00	0.00006
485493.09	3752581.50	0.00005	485510.44	3752483.00	0.00005
485527.81	3752384.50	0.00005	485545.16	3752286.00	0.00004
485024.22	3754940.50	0.00856	485024.22	3754840.50	0.00327
485024.22	3754740.50	0.00174	485024.22	3754640.50	0.00105
485024.22	3754540.50	0.00071	485024.22	3754440.50	0.00051
485024.22	3754340.50	0.00039	485024.22	3754240.50	0.00030
485024.22	3754140.50	0.00024	485024.22	3754040.50	0.00020
485024.22	3753940.50	0.00017	485024.22	3753840.50	0.00014
485024.22	3753740.50	0.00013	485024.22	3753640.50	0.00011
485024.22	3753540.50	0.00010	485024.22	3753440.50	0.00009
485024.22	3753340.50	0.00008	485024.22	3753240.50	0.00007
485024.22	3753140.50	0.00006	485024.22	3753040.50	0.00006
485024.22	3752940.50	0.00005	485024.22	3752840.50	0.00005
485024.22	3752740.50	0.00005	485024.22	3752640.50	0.00004
485024.22	3752540.50	0.00004	485024.22	3752440.50	0.00004
485024.22	3752340.50	0.00003	485024.22	3752240.50	0.00003
484972.13	3754945.00	0.00850	484954.78	3754846.50	0.00312
484937.41	3754748.00	0.00165	484920.03	3754649.75	0.00101
484902.69	3754551.25	0.00068	484885.31	3754452.75	0.00049
484867.94	3754354.25	0.00037	484850.59	3754255.75	0.00029
484833.22	3754157.25	0.00023	484815.84	3754058.75	0.00020
484798.50	3753960.25	0.00017	484781.13	3753861.75	0.00015
484763.75	3753763.25	0.00013	484746.38	3753664.75	0.00011
484729.03	3753566.25	0.00010	484711.66	3753467.75	0.00009
484694.31	3753369.50	0.00008	484676.94	3753271.00	0.00008
484659.56	3753172.50	0.00007	484642.19	3753074.00	0.00006
484624.84	3752975.50	0.00006	484607.47	3752877.00	0.00006
484590.13	3752778.50	0.00005	484572.75	3752680.00	0.00005
484555.38	3752581.50	0.00005	484538.03	3752483.00	0.00004
484520.66	3752384.50	0.00004	484503.28	3752286.00	0.00004
484491.63	3754958.50	0.00964	484487.41	3754864.75	0.00336
484485.22	3754770.75	0.00174	484481.03	3754676.75	0.00109
484784.81	3754582.75	0.00075	484750.63	3754488.75	0.00055
484716.41	3754394.75	0.00041	484682.22	3754300.75	0.00032
484648.00	3754206.75	0.00026	484613.81	3754113.00	0.00022
484579.59	3754019.00	0.00019	484545.41	3753925.00	0.00016

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 61
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484511.19	3753831.00	0.00014	484477.00	3753737.00	0.00012
484442.81	3753643.00	0.00011	484408.59	3753549.00	0.00010
484374.38	3753455.00	0.00009	484340.19	3753361.00	0.00008
484306.00	3753267.25	0.00007	484271.78	3753173.25	0.00007
484237.59	3753079.25	0.00006	484203.38	3752985.25	0.00006
484169.19	3752891.25	0.00006	484134.97	3752797.25	0.00005
484100.78	3752703.25	0.00005	484066.56	3752609.25	0.00005
484032.38	3752515.50	0.00004	483998.16	3752421.50	0.00004
484874.22	3754980.75	0.01318	484824.22	3754894.00	0.00414
484774.22	3754807.50	0.00208	484724.22	3754721.00	0.00130
484674.22	3754634.25	0.00090	484624.22	3754547.75	0.00066
484574.22	3754461.00	0.00050	484524.22	3754374.50	0.00039
484474.22	3754288.00	0.00032	484424.22	3754201.25	0.00026
484374.22	3754114.75	0.00022	484324.22	3754028.00	0.00019
484274.22	3753941.50	0.00016	484224.22	3753854.75	0.00014
484174.22	3753768.25	0.00013	484124.22	3753681.75	0.00011
484074.22	3753595.00	0.00010	484024.22	3753508.50	0.00009
483974.22	3753421.75	0.00008	483924.22	3753335.25	0.00008
483874.22	3753248.75	0.00007	483824.22	3753162.00	0.00007
483774.22	3753075.50	0.00006	483724.22	3752988.75	0.00006
483674.22	3752902.25	0.00005	483624.22	3752815.75	0.00005
483574.22	3752729.00	0.00005	483524.22	3752642.50	0.00004
484767.13	3754934.00	0.00589	484702.84	3754857.50	0.00287
484638.56	3754781.00	0.00173	484574.28	3754704.25	0.00119
484510.00	3754627.75	0.00088	484445.72	3754551.00	0.00067
484381.44	3754474.50	0.00054	484317.16	3754397.75	0.00044
484252.88	3754321.25	0.00037	484188.63	3754244.75	0.00031
484124.34	3754168.00	0.00027	484060.06	3754091.50	0.00023
483995.78	3754014.75	0.00021	483931.50	3753938.25	0.00018
483867.22	3753861.75	0.00017	483802.94	3753785.00	0.00015
483738.66	3753708.50	0.00014	483674.38	3753631.75	0.00012
483610.09	3753555.25	0.00011	483545.81	3753478.50	0.00011
483481.53	3753402.00	0.00010	483417.25	3753325.50	0.00009
483352.97	3753248.75	0.00008	483288.69	3753172.25	0.00008
483224.41	3753095.50	0.00007	483160.16	3753019.00	0.00007
483095.88	3752942.50	0.00007	484717.81	3754983.50	0.01125
484641.22	3754919.00	0.00456	484564.59	3754854.75	0.00260
484488.00	3754790.50	0.00177	484411.38	3754726.25	0.00130
484334.78	3754662.00	0.00099	484258.19	3754597.75	0.00079
484181.59	3754533.50	0.00066	484104.97	3754469.25	0.00055

**MODELOPTS: PAGE 62
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484028.38	3754405.00	0.00048	483951.78	3754340.50	0.00042
483875.16	3754276.25	0.00037	483798.56	3754212.00	0.00033
483721.94	3754147.75	0.00030	483645.34	3754083.50	0.00027
483568.75	3754019.25	0.00024	483492.13	3753955.00	0.00022
483415.53	3753890.75	0.00021	483338.94	3753826.50	0.00019
483262.34	3753762.00	0.00018	483185.72	3753697.75	0.00017
483109.13	3753633.50	0.00015	483032.50	3753569.25	0.00014
482955.91	3753505.00	0.00014	482879.31	3753440.75	0.00013
482802.69	3753376.50	0.00012	482726.09	3753312.25	0.00011
484677.81	3755040.50	0.02571	484591.22	3754990.50	0.01073
484504.63	3754940.50	0.00446	484418.00	3754890.50	0.00288
484331.41	3754840.50	0.00208	484244.81	3754790.50	0.00157
484158.19	3754740.50	0.00122	484071.59	3754690.50	0.00099
483985.00	3754640.50	0.00082	483898.41	3754590.50	0.00070
483811.78	3754540.50	0.00060	483725.19	3754490.50	0.00053
483638.59	3754440.50	0.00047	483552.00	3754390.50	0.00042
483465.38	3754340.50	0.00039	483378.78	3754290.50	0.00035
483292.19	3754240.50	0.00032	483205.59	3754190.50	0.00030
483118.97	3754140.50	0.00028	483032.38	3754090.50	0.00026
482945.78	3754040.50	0.00024	482859.16	3753990.50	0.00023
482772.56	3753940.50	0.00021	482685.97	3753890.50	0.00020
482599.38	3753840.50	0.00019	482512.75	3753790.50	0.00018
482426.16	3753740.50	0.00017	484648.34	3755103.75	0.02784
484554.38	3755069.50	0.02110	484460.41	3755035.25	0.01557
484366.44	3755001.00	0.00622	484272.47	3754967.00	0.00420
484178.50	3754932.75	0.00311	484084.53	3754898.50	0.00239
483990.56	3754864.25	0.00188	483896.59	3754830.00	0.00152
483802.63	3754796.00	0.00126	483708.66	3754761.75	0.00107
483614.69	3754727.50	0.00092	483520.72	3754693.25	0.00080
483426.75	3754659.00	0.00071	483332.78	3754624.75	0.00063
483238.81	3754590.75	0.00057	483144.84	3754556.50	0.00051
483050.88	3754522.25	0.00046	482956.91	3754488.00	0.00042
482862.94	3754453.75	0.00039	482768.97	3754419.75	0.00036
482675.00	3754385.50	0.00033	482581.03	3754351.25	0.00030
482487.06	3754317.00	0.00028	482393.09	3754282.75	0.00026
482299.13	3754248.75	0.00025	482205.16	3754214.50	0.00023
484630.31	3755171.00	0.03345	484531.84	3755153.75	0.02028
484433.34	3755136.25	0.01724	484334.88	3755119.00	0.01211
484236.38	3755101.50	0.00956	484137.91	3755084.25	0.00636
484039.41	3755066.75	0.00486	483940.94	3755049.50	0.00391

**MODELOPTS: PAGE 63
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483842.47	3755032.25	0.00318	483743.97	3755014.75	0.00261
483645.50	3754997.50	0.00221	483547.03	3754980.00	0.00193
483448.53	3754962.75	0.00173	483350.06	3754945.25	0.00156
483251.59	3754928.00	0.00142	483153.09	3754910.50	0.00130
483054.63	3754893.25	0.00119	482956.13	3754875.75	0.00110
482857.66	3754858.50	0.00102	482759.16	3754841.00	0.00094
482660.69	3754823.75	0.00088	482562.22	3754806.50	0.00082
482463.72	3754789.00	0.00077	482365.25	3754771.75	0.00073
482266.78	3754754.25	0.00069	482168.28	3754737.00	0.00065
482069.81	3754719.50	0.00061	484624.22	3755240.50	0.03875
484524.22	3755240.50	0.02672	484424.22	3755240.50	0.01976
484324.22	3755240.50	0.01630	484224.22	3755240.50	0.01786
484124.22	3755240.50	0.02110	484024.22	3755240.50	0.01791
483924.22	3755240.50	0.01732	483824.22	3755240.50	0.01451
483724.22	3755240.50	0.01450	483624.22	3755240.50	0.01526
485270.06	3754972.75	0.01765	483424.22	3755240.50	0.00662
483324.22	3755240.50	0.00400	483224.22	3755240.50	0.00306
483124.22	3755240.50	0.00254	483024.22	3755240.50	0.00219
482924.22	3755240.50	0.00192	482824.22	3755240.50	0.00172
482724.22	3755240.50	0.00155	482624.22	3755240.50	0.00142
482524.22	3755240.50	0.00130	482424.22	3755240.50	0.00120
482324.22	3755240.50	0.00111	482224.22	3755240.50	0.00104
482124.22	3755240.50	0.00097	482024.22	3755240.50	0.00091
484630.31	3755310.00	0.03586	484531.84	3755327.25	0.02896
484433.34	3755344.75	0.02288	484334.88	3755362.00	0.01839
484236.38	3755379.50	0.01517	484137.91	3755396.75	0.01285
484039.41	3755414.25	0.01119	483940.94	3755431.50	0.01003
485244.81	3754972.75	0.01750	483743.97	3755466.25	0.00832
483645.50	3755483.50	0.00763	483547.03	3755501.00	0.00704
483448.53	3755518.25	0.00652	483350.06	3755535.75	0.00620
483251.59	3755553.00	0.00573	483153.09	3755570.50	0.00522
483054.63	3755587.75	0.00473	482956.13	3755605.25	0.00429
482857.66	3755622.50	0.00388	482759.16	3755640.00	0.00353
482660.69	3755657.25	0.00322	482562.22	3755674.75	0.00296
482463.72	3755692.00	0.00273	482365.25	3755709.25	0.00253
482266.78	3755726.75	0.00235	482168.28	3755744.00	0.00220
482069.81	3755761.50	0.00206	484648.34	3755377.25	0.03966
484554.38	3755411.50	0.02999	484524.22	3755001.75	0.02919
484366.44	3755480.00	0.02024	484272.47	3755514.25	0.01721
484178.50	3755548.25	0.01484	484084.53	3755582.50	0.01295

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 64
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483990.56	3755616.75	0.01142	483896.59	3755651.00	0.01016
483802.63	3755685.25	0.00911	483708.66	3755719.25	0.00823
483614.69	3755753.50	0.00749	483520.72	3755787.75	0.00686
483426.75	3755822.00	0.00631	483332.78	3755856.25	0.00582
483238.81	3755890.25	0.00540	483144.84	3755924.50	0.00503
483050.88	3755958.75	0.00470	482956.91	3755993.00	0.00440
482862.94	3756027.25	0.00414	482768.97	3756061.25	0.00389
482675.00	3756095.50	0.00368	482581.03	3756129.75	0.00348
482487.06	3756164.00	0.00330	482393.09	3756198.25	0.00313
482299.13	3756232.25	0.00298	482205.16	3756266.50	0.00284
484591.22	3755490.50	0.03385	484504.63	3755540.50	0.02427
484418.00	3755590.50	0.01873	484331.41	3755640.50	0.01514
484244.81	3755690.50	0.01262	484158.19	3755740.50	0.01076
484071.59	3755790.50	0.00934	483985.00	3755840.50	0.00822
483898.41	3755890.50	0.00731	483811.78	3755940.50	0.00656
483725.19	3755990.50	0.00594	483638.59	3756040.50	0.00542
483552.00	3756090.50	0.00497	483465.38	3756140.50	0.00458
483378.78	3756190.50	0.00424	483292.19	3756240.50	0.00394
483205.59	3756290.50	0.00367	483118.97	3756340.50	0.00343
483032.38	3756390.50	0.00322	482945.78	3756440.50	0.00303
482859.16	3756490.50	0.00286	482772.56	3756540.50	0.00271
482685.97	3756590.50	0.00257	482599.38	3756640.50	0.00244
482512.75	3756690.50	0.00232	482426.16	3756740.50	0.00221
484717.81	3755497.75	0.03451	484641.22	3755562.00	0.02167
484564.59	3755626.25	0.01515	484488.00	3755690.50	0.01130
484411.38	3755754.75	0.00879	484334.78	3755819.00	0.00706
484258.19	3755883.25	0.00580	484181.59	3755947.50	0.00485
484104.97	3756011.75	0.00412	484028.38	3756076.25	0.00354
483951.78	3756140.50	0.00308	483875.16	3756204.75	0.00270
483798.56	3756269.00	0.00239	483721.94	3756333.25	0.00213
483645.34	3756397.50	0.00192	483568.75	3756461.75	0.00173
483492.13	3756526.00	0.00157	483415.53	3756590.25	0.00143
483338.94	3756654.75	0.00131	483262.34	3756719.00	0.00120
483185.72	3756783.25	0.00111	483109.13	3756847.50	0.00102
483032.50	3756911.75	0.00095	482955.91	3756976.00	0.00088
482879.31	3757040.25	0.00082	482802.69	3757104.50	0.00077
482726.09	3757168.75	0.00072	484831.38	3755470.25	0.04410
484767.13	3755547.00	0.02185	484702.84	3755623.50	0.01299
484638.56	3755700.25	0.00858	484574.28	3755776.75	0.00610
484510.00	3755853.25	0.00458	484445.72	3755930.00	0.00357

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 65
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484381.44	3756006.50	0.00288	484317.16	3756083.25	0.00237
484252.88	3756159.75	0.00200	484188.63	3756236.25	0.00171
484124.34	3756313.00	0.00148	484060.06	3756389.50	0.00130
483995.78	3756466.25	0.00115	483931.50	3756542.75	0.00103
483867.22	3756619.50	0.00093	483802.94	3756696.00	0.00085
483738.66	3756772.50	0.00077	483674.38	3756849.25	0.00071
483610.09	3756925.75	0.00066	483545.81	3757002.50	0.00061
483481.53	3757079.00	0.00057	483417.25	3757155.50	0.00053
483352.97	3757232.25	0.00050	483288.69	3757308.75	0.00047
483224.41	3757385.50	0.00045	483160.16	3757462.00	0.00042
483095.88	3757538.75	0.00040	484874.22	3755500.25	0.03005
484824.22	3755587.00	0.01410	484774.22	3755673.50	0.00810
484724.22	3755760.25	0.00531	484674.22	3755846.75	0.00377
484624.22	3755933.25	0.00282	484574.22	3756020.00	0.00219
484524.22	3756106.50	0.00175	484474.22	3756193.25	0.00144
484424.22	3756279.75	0.00121	484374.22	3756366.25	0.00103
484324.22	3756453.00	0.00090	484274.22	3756539.50	0.00079
484224.22	3756626.25	0.00071	484174.22	3756712.75	0.00063
484124.22	3756799.25	0.00057	484074.22	3756886.00	0.00052
484024.22	3756972.50	0.00048	483974.22	3757059.25	0.00044
483924.22	3757145.75	0.00041	483874.22	3757232.25	0.00038
483824.22	3757319.00	0.00035	483774.22	3757405.50	0.00033
483724.22	3757492.25	0.00031	483674.22	3757578.75	0.00029
483624.22	3757665.50	0.00027	483574.22	3757752.00	0.00025
483524.22	3757838.50	0.00024	484921.63	3755522.50	0.02119
484887.41	3755616.50	0.00975	484853.22	3755710.25	0.00587
484819.03	3755804.25	0.00393	484784.81	3755898.25	0.00278
484750.63	3755992.25	0.00207	484716.41	3756086.25	0.00162
484682.22	3756180.25	0.00132	484648.00	3756274.25	0.00110
484613.81	3756368.25	0.00094	484579.59	3756462.00	0.00081
484545.41	3756556.00	0.00071	484511.19	3756650.00	0.00063
484477.00	3756744.00	0.00056	484442.81	3756838.00	0.00050
484408.59	3756932.00	0.00046	484374.38	3757026.00	0.00041
484340.19	3757120.00	0.00038	484306.00	3757213.75	0.00035
484271.78	3757307.75	0.00032	484237.59	3757401.75	0.00030
484203.38	3757495.75	0.00028	484169.19	3757589.75	0.00026
484134.97	3757683.75	0.00024	484100.78	3757777.75	0.00023
484066.56	3757871.75	0.00022	484032.38	3757965.50	0.00020
483998.16	3758059.50	0.00019	484972.13	3755536.00	0.01603
484954.78	3755634.50	0.00780	484937.41	3755733.00	0.00475

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 66
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484920.03	3755831.50	0.00313	484902.69	3755930.00	0.00224
484885.31	3756028.25	0.00172	484867.94	3756126.75	0.00139
484850.59	3756225.25	0.00115	484833.22	3756323.75	0.00097
484815.84	3756422.25	0.00084	484798.50	3756520.75	0.00073
484781.13	3756619.25	0.00064	484763.75	3756717.75	0.00058
484746.38	3756816.25	0.00052	484729.03	3756914.75	0.00047
484711.66	3757013.25	0.00043	484694.31	3757111.75	0.00040
484676.94	3757210.25	0.00037	484659.56	3757308.50	0.00034
484642.19	3757407.00	0.00032	484624.84	3757505.50	0.00030
484607.47	3757604.00	0.00028	484590.13	3757702.50	0.00026
484572.75	3757801.00	0.00025	484555.38	3757899.50	0.00023
484538.03	3757998.00	0.00022	484520.66	3758096.50	0.00021
484503.28	3758195.00	0.00020			

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 09:47:24

**MODELOPTS: PAGE 67
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.04410 AT (484831.38, 3755470.25,	0.00, 1.50]	DC NA
	2ND HIGHEST VALUE IS	0.03966 AT (484648.34, 3755377.25,	0.00, 1.50]	DC NA
	3RD HIGHEST VALUE IS	0.03875 AT (484624.22, 3755240.50,	0.00, 1.50]	DC NA
	4TH HIGHEST VALUE IS	0.03696 AT (485400.13, 3755103.75,	0.00, 1.50]	DC NA
	5TH HIGHEST VALUE IS	0.03586 AT (484630.31, 3755310.00,	0.00, 1.50]	DC NA
	6TH HIGHEST VALUE IS	0.03451 AT (484717.81, 3755497.75,	0.00, 1.50]	DC NA
	7TH HIGHEST VALUE IS	0.03385 AT (484591.22, 3755490.50,	0.00, 1.50]	DC NA
	8TH HIGHEST VALUE IS	0.03345 AT (484630.31, 3755171.00,	0.00, 1.50]	DC NA
	9TH HIGHEST VALUE IS	0.03309 AT (485217.06, 3755010.75,	0.00, 1.50]	DC NA
	10TH HIGHEST VALUE IS	0.03268 AT (485324.22, 3755240.50,	0.00, 1.50]	DC NA

*** RECEPTOR TYPES: GC = GRIDCART

- GP = GRIDPOLR
- DC = DISCCART
- DP = DISCPOLR
- BD = BOUNDARY

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 09:47:24
**MODELOPTS: PAGE 68
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1398 Informational Message(s)

A Total of 1398 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
*** NONE ***

*** ISCST3 Finishes Successfully ***

```

**
*****
**
** ISCS3 Input Produced by:
** AERMOD View Ver. 6.2.0
** Lakes Environmental Software Inc.
** Date: 10/8/2009
** File: C:\Documents and Settings\hqureshi\Desktop\06192 HRA\HRAMIT.INP
**
*****
**
**
** ISCS3 Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc
TITLETWO West Ridge HRA
MODELOPT CONC NOCMPL URBAN NOCALM
AVERTIME ANNUAL
POLLUTID DPM
TERRHGT5 FLAT
FLAGPOLE 1.50
RUNORNOT RUN
CO FINISHED
**
*****
** ISCS3 Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION NORTH AREAPOLY 484851.861 3755334.115
LOCATION SOUTH AREAPOLY 484832.883 3755147.441
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = RED
** DESCRSRC
** Length of Side = 14.00
** Emission Rate = 1.22E-5
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 3
** 485514.05, 3755440.55, 0.00, 4.00, 0.0
** 485512.92, 3755025.40, 0.00, 4.00, 12.43
** 485281.77, 3755025.97, 0.00, 4.00, 11.94
**
*****
LOCATION L0001052 VOLUME 485514.043 3755433.500
LOCATION L0001053 VOLUME 485513.969 3755406.767
LOCATION L0001054 VOLUME 485513.894 3755380.033
LOCATION L0001055 VOLUME 485513.820 3755353.300
LOCATION L0001056 VOLUME 485513.745 3755326.567
LOCATION L0001057 VOLUME 485513.671 3755299.833
LOCATION L0001058 VOLUME 485513.596 3755273.100
LOCATION L0001059 VOLUME 485513.522 3755246.367
LOCATION L0001060 VOLUME 485513.447 3755219.633
LOCATION L0001061 VOLUME 485513.373 3755192.900
LOCATION L0001062 VOLUME 485513.298 3755166.167
LOCATION L0001063 VOLUME 485513.224 3755139.433
LOCATION L0001064 VOLUME 485513.149 3755112.700
LOCATION L0001065 VOLUME 485513.075 3755085.967

```

```

LOCATION L0001066 VOLUME 485513.000 3755059.233
LOCATION L0001067 VOLUME 485512.926 3755032.500
LOCATION L0001068 VOLUME 485494.226 3755025.540
LOCATION L0001069 VOLUME 485468.545 3755025.596
LOCATION L0001070 VOLUME 485442.865 3755025.652
LOCATION L0001071 VOLUME 485417.184 3755025.707
LOCATION L0001072 VOLUME 485391.503 3755025.763
LOCATION L0001073 VOLUME 485365.823 3755025.818
LOCATION L0001074 VOLUME 485340.142 3755025.874
LOCATION L0001075 VOLUME 485314.462 3755025.929
LOCATION L0001076 VOLUME 485288.781 3755025.985
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDS
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 2.45E-06
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 2
** 485270.26, 3755112.67, 0.00, 4.00, 0.0
** 485198.77, 3755113.34, 0.00, 4.00, 7.15
**
*****
LOCATION L0001077 VOLUME 485265.250 3755112.785
LOCATION L0001078 VOLUME 485249.883 3755112.892
LOCATION L0001079 VOLUME 485234.516 3755113.000
LOCATION L0001080 VOLUME 485219.148 3755113.108
LOCATION L0001081 VOLUME 485203.781 3755113.215
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDTOT
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 2.54E-06
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 2
** 485281.95, 3755038.82, 0.00, 4.00, 0.0
** 485280.98, 3755113.51, 0.00, 4.00, 7.53
**
*****
LOCATION L0001082 VOLUME 485281.873 3755043.750
LOCATION L0001083 VOLUME 485281.663 3755059.937
LOCATION L0001084 VOLUME 485281.453 3755076.125
LOCATION L0001085 VOLUME 485281.243 3755092.313
LOCATION L0001086 VOLUME 485281.034 3755108.500
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDN
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 1.13E-5
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 4
** 485281.03, 3755114.82, 0.00, 4.00, 0.0
** 485270.33, 3755371.11, 0.00, 4.00, 8.82
** 485257.73, 3755376.46, 0.00, 4.00, 6.41
** 485195.66, 3755376.08, 0.00, 4.00, 7.22
**
*****
LOCATION L0001087 VOLUME 485280.823 3755119.746
LOCATION L0001088 VOLUME 485280.033 3755138.689
LOCATION L0001089 VOLUME 485279.243 3755157.632
LOCATION L0001090 VOLUME 485278.453 3755176.575

```

LOCATION L0001091 VOLUME 485277.663 3755195.518
 LOCATION L0001092 VOLUME 485276.873 3755214.461
 LOCATION L0001093 VOLUME 485276.083 3755233.404
 LOCATION L0001094 VOLUME 485275.292 3755252.346
 LOCATION L0001095 VOLUME 485274.502 3755271.289
 LOCATION L0001096 VOLUME 485273.712 3755290.232
 LOCATION L0001097 VOLUME 485272.922 3755309.175
 LOCATION L0001098 VOLUME 485272.132 3755328.118
 LOCATION L0001099 VOLUME 485271.342 3755347.061
 LOCATION L0001100 VOLUME 485270.552 3755366.004
 LOCATION L0001101 VOLUME 485262.303 3755374.503
 LOCATION L0001102 VOLUME 485247.203 3755376.415
 LOCATION L0001103 VOLUME 485231.687 3755376.290
 LOCATION L0001104 VOLUME 485216.172 3755376.165
 LOCATION L0001105 VOLUME 485200.656 3755376.040

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 **-----
 ** LINE Source ID = EA1
 ** DESCRSRC
 ** Length of Side = 14.00
 ** Emission Rate = 2.88E-5
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 9
 ** 483513.58, 3755437.36, 0.00, 4.00, 0.0
 ** 483523.83, 3755223.52, 0.00, 4.00, 11.63
 ** 484153.63, 3755222.06, 0.00, 4.00, 12.74
 ** 484283.98, 3755186.90, 0.00, 4.00, 12.55
 ** 484370.40, 3755109.28, 0.00, 4.00, 10.81
 ** 484502.21, 3755038.97, 0.00, 4.00, 11.58
 ** 484588.63, 3755021.40, 0.00, 4.00, 10.25
 ** 484758.53, 3755019.93, 0.00, 4.00, 11.29
 ** 484782.82, 3755021.23, 0.00, 4.00, 11.31
 **-----

LOCATION L0001106 VOLUME 483513.899 3755430.258
 LOCATION L0001107 VOLUME 483515.100 3755405.287
 LOCATION L0001108 VOLUME 483516.301 3755380.317
 LOCATION L0001109 VOLUME 483517.502 3755355.346
 LOCATION L0001110 VOLUME 483518.703 3755330.375
 LOCATION L0001111 VOLUME 483519.904 3755305.404
 LOCATION L0001112 VOLUME 483521.105 3755280.433
 LOCATION L0001113 VOLUME 483522.306 3755255.463
 LOCATION L0001114 VOLUME 483523.507 3755230.492
 LOCATION L0001115 VOLUME 483544.226 3755223.451
 LOCATION L0001116 VOLUME 483571.607 3755223.386
 LOCATION L0001117 VOLUME 483598.989 3755223.321
 LOCATION L0001118 VOLUME 483626.371 3755223.256
 LOCATION L0001119 VOLUME 483653.753 3755223.191
 LOCATION L0001120 VOLUME 483681.135 3755223.125
 LOCATION L0001121 VOLUME 483708.516 3755223.060
 LOCATION L0001122 VOLUME 483735.898 3755222.995
 LOCATION L0001123 VOLUME 483763.280 3755222.930
 LOCATION L0001124 VOLUME 483790.662 3755222.864
 LOCATION L0001125 VOLUME 483818.043 3755222.799
 LOCATION L0001126 VOLUME 483845.425 3755222.734
 LOCATION L0001127 VOLUME 483872.807 3755222.669
 LOCATION L0001128 VOLUME 483900.189 3755222.604
 LOCATION L0001129 VOLUME 483927.571 3755222.538
 LOCATION L0001130 VOLUME 483954.952 3755222.473
 LOCATION L0001131 VOLUME 483982.334 3755222.408
 LOCATION L0001132 VOLUME 484009.716 3755222.343
 LOCATION L0001133 VOLUME 484037.098 3755222.278
 LOCATION L0001134 VOLUME 484064.480 3755222.212
 LOCATION L0001135 VOLUME 484091.861 3755222.147
 LOCATION L0001136 VOLUME 484119.243 3755222.082

LOCATION L0001137 VOLUME 484146.625 3755222.017
 LOCATION L0001138 VOLUME 484172.933 3755216.815
 LOCATION L0001139 VOLUME 484199.002 3755209.815
 LOCATION L0001140 VOLUME 484225.071 3755202.815
 LOCATION L0001141 VOLUME 484251.139 3755195.815
 LOCATION L0001142 VOLUME 484277.208 3755188.815
 LOCATION L0001143 VOLUME 484296.052 3755176.131
 LOCATION L0001144 VOLUME 484313.339 3755160.581
 LOCATION L0001145 VOLUME 484330.627 3755145.031
 LOCATION L0001146 VOLUME 484347.914 3755129.481
 LOCATION L0001147 VOLUME 484365.202 3755113.931
 LOCATION L0001148 VOLUME 484386.198 3755100.834
 LOCATION L0001149 VOLUME 484408.166 3755089.126
 LOCATION L0001150 VOLUME 484430.135 3755077.417
 LOCATION L0001151 VOLUME 484452.104 3755065.709
 LOCATION L0001152 VOLUME 484474.073 3755054.001
 LOCATION L0001153 VOLUME 484496.041 3755042.292
 LOCATION L0001154 VOLUME 484516.960 3755036.015
 LOCATION L0001155 VOLUME 484538.561 3755031.640
 LOCATION L0001156 VOLUME 484560.163 3755027.265
 LOCATION L0001157 VOLUME 484581.764 3755022.890
 LOCATION L0001158 VOLUME 484605.898 3755021.348
 LOCATION L0001159 VOLUME 484630.170 3755021.133
 LOCATION L0001160 VOLUME 484654.442 3755020.919
 LOCATION L0001161 VOLUME 484678.715 3755020.705
 LOCATION L0001162 VOLUME 484702.987 3755020.490
 LOCATION L0001163 VOLUME 484727.259 3755020.276
 LOCATION L0001164 VOLUME 484751.532 3755020.062
 LOCATION L0001165 VOLUME 484775.822 3755020.890

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 **-----
 ** LINE Source ID = WDTOT
 ** DESCRSRC
 ** Length of Side = 10.00
 ** Emission Rate = 1.61E-06
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 2
 ** 484781.52, 3755035.53, 0.00, 4.00, 0.0
 ** 484780.87, 3755083.62, 0.00, 4.00, 8.84
 **-----

LOCATION L0001166 VOLUME 484781.435 3755040.500
 LOCATION L0001167 VOLUME 484781.188 3755059.500
 LOCATION L0001168 VOLUME 484780.940 3755078.500

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 **-----
 ** LINE Source ID = WDN
 ** DESCRSRC
 ** Length of Side = 10.00
 ** Emission Rate = 1.07E-5
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 3
 ** 484780.22, 3755082.97, 0.00, 4.00, 0.0
 ** 484777.62, 3755376.07, 0.00, 4.00, 8.78
 ** 484799.06, 3755375.42, 0.00, 4.00, 4.99
 **-----

LOCATION L0001169 VOLUME 484780.174 3755088.000
 LOCATION L0001170 VOLUME 484780.007 3755106.866
 LOCATION L0001171 VOLUME 484779.840 3755125.733
 LOCATION L0001172 VOLUME 484779.673 3755144.600
 LOCATION L0001173 VOLUME 484779.506 3755163.467
 LOCATION L0001174 VOLUME 484779.339 3755182.333
 LOCATION L0001175 VOLUME 484779.172 3755201.200

LOCATION L0001176 VOLUME 484779.005 3755220.067
 LOCATION L0001177 VOLUME 484778.838 3755238.933
 LOCATION L0001178 VOLUME 484778.671 3755257.800
 LOCATION L0001179 VOLUME 484778.504 3755276.667
 LOCATION L0001180 VOLUME 484778.337 3755295.533
 LOCATION L0001181 VOLUME 484778.170 3755314.400
 LOCATION L0001182 VOLUME 484778.003 3755333.267
 LOCATION L0001183 VOLUME 484777.836 3755352.134
 LOCATION L0001184 VOLUME 484777.669 3755371.000
 LOCATION L0001185 VOLUME 484783.345 3755375.867
 LOCATION L0001186 VOLUME 484794.064 3755375.617

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----
 ** LINE Source ID = EACONN
 ** DESCRSRC
 ** Length of Side = 14.00
 ** Emission Rate = 9.27E-06
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 2
 ** 485277.37, 3755024.48, 0.00, 4.00, 0.0
 ** 484786.06, 3755019.93, 0.00, 4.00, 12.33
 ** -----

LOCATION L0001187 VOLUME 485270.375 3755024.436
 LOCATION L0001188 VOLUME 485243.858 3755024.193
 LOCATION L0001189 VOLUME 485217.341 3755023.950
 LOCATION L0001190 VOLUME 485190.823 3755023.707
 LOCATION L0001191 VOLUME 485164.306 3755023.464
 LOCATION L0001192 VOLUME 485137.788 3755023.222
 LOCATION L0001193 VOLUME 485111.271 3755022.979
 LOCATION L0001194 VOLUME 485084.754 3755022.736
 LOCATION L0001195 VOLUME 485058.236 3755022.493
 LOCATION L0001196 VOLUME 485031.719 3755022.250
 LOCATION L0001197 VOLUME 485005.201 3755022.007
 LOCATION L0001198 VOLUME 484978.684 3755021.764
 LOCATION L0001199 VOLUME 484952.167 3755021.521
 LOCATION L0001200 VOLUME 484925.649 3755021.278
 LOCATION L0001201 VOLUME 484899.132 3755021.036
 LOCATION L0001202 VOLUME 484872.614 3755020.793
 LOCATION L0001203 VOLUME 484846.097 3755020.550
 LOCATION L0001204 VOLUME 484819.580 3755020.307
 LOCATION L0001205 VOLUME 484793.062 3755020.064

** End of Line Source
 ** Source Parameters **
 SRCPARAM NORTH 2.95E-10 4.000 11 1.860
 AREAVERT NORTH 484851.861 3755334.115 484795.898 3755334.215
 AREAVERT NORTH 484793.656 3755354.326 484789.516 3755391.010
 AREAVERT NORTH 484791.656 3755391.005 485116.083 3755390.148
 AREAVERT NORTH 485099.331 3755390.160 485136.349 3755386.791
 AREAVERT NORTH 485222.754 3755374.982 485234.337 3755341.479
 AREAVERT NORTH 485184.092 3755342.300
 SRCPARAM SOUTH 3.229E-10 4.000 10 1.860
 AREAVERT SOUTH 484832.883 3755147.441 484832.883 3755132.927
 AREAVERT SOUTH 484832.775 3755132.927 484834.526 3755092.171
 AREAVERT SOUTH 485198.157 3755095.373 485196.612 3755131.130
 AREAVERT SOUTH 485196.184 3755149.677 485181.290 3755150.857
 AREAVERT SOUTH 485176.151 3755150.296 485174.750 3755149.918
 SRCPARAM L0001052 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001053 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001054 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001055 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001056 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001057 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001058 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001059 4.88E-07 4.00 12.43 1.86

SRCPARAM L0001060 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001061 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001062 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001063 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001064 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001065 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001066 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001067 4.88E-07 4.00 12.43 1.86
 SRCPARAM L0001068 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001069 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001070 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001071 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001072 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001073 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001074 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001075 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001076 4.88E-07 4.00 11.94 1.86
 SRCPARAM L0001077 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001078 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001079 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001080 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001081 4.9E-07 4.00 7.15 1.86
 SRCPARAM L0001082 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001083 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001084 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001085 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001086 5.08E-07 4.00 7.53 1.86
 SRCPARAM L0001087 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001088 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001089 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001090 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001091 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001092 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001093 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001094 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001095 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001096 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001097 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001098 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001099 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001100 5.9474E-07 4.00 8.82 1.86
 SRCPARAM L0001101 5.9474E-07 4.00 6.41 1.86
 SRCPARAM L0001102 5.9474E-07 4.00 7.22 1.86
 SRCPARAM L0001103 5.9474E-07 4.00 7.22 1.86
 SRCPARAM L0001104 5.9474E-07 4.00 7.22 1.86
 SRCPARAM L0001105 5.9474E-07 4.00 7.22 1.86
 SRCPARAM L0001106 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001107 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001108 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001109 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001110 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001111 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001112 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001113 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001114 4.8E-07 4.00 11.63 1.86
 SRCPARAM L0001115 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001116 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001117 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001118 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001119 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001120 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001121 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001122 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001123 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001124 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001125 4.8E-07 4.00 12.74 1.86

SRCPARAM L0001126 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001127 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001128 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001129 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001130 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001131 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001132 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001133 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001134 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001135 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001136 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001137 4.8E-07 4.00 12.74 1.86
 SRCPARAM L0001138 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001139 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001140 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001141 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001142 4.8E-07 4.00 12.55 1.86
 SRCPARAM L0001143 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001144 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001145 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001146 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001147 4.8E-07 4.00 10.81 1.86
 SRCPARAM L0001148 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001149 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001150 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001151 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001152 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001153 4.8E-07 4.00 11.58 1.86
 SRCPARAM L0001154 4.8E-07 4.00 10.25 1.86
 SRCPARAM L0001155 4.8E-07 4.00 10.25 1.86
 SRCPARAM L0001156 4.8E-07 4.00 10.25 1.86
 SRCPARAM L0001157 4.8E-07 4.00 10.25 1.86
 SRCPARAM L0001158 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001159 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001160 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001161 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001162 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001163 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001164 4.8E-07 4.00 11.29 1.86
 SRCPARAM L0001165 4.8E-07 4.00 11.31 1.86
 SRCPARAM L0001166 5.3667E-07 4.00 8.84 1.86
 SRCPARAM L0001167 5.3667E-07 4.00 8.84 1.86
 SRCPARAM L0001168 5.3667E-07 4.00 8.84 1.86
 SRCPARAM L0001169 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001170 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001171 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001172 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001173 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001174 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001175 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001176 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001177 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001178 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001179 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001180 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001181 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001182 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001183 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001184 5.9444E-07 4.00 8.78 1.86
 SRCPARAM L0001185 5.9444E-07 4.00 4.99 1.86
 SRCPARAM L0001186 5.9444E-07 4.00 4.99 1.86
 SRCPARAM L0001187 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001188 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001189 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001190 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001191 4.8789E-07 4.00 12.33 1.86

SRCPARAM L0001192 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001193 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001194 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001195 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001196 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001197 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001198 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001199 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001200 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001201 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001202 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001203 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001204 4.8789E-07 4.00 12.33 1.86
 SRCPARAM L0001205 4.8789E-07 4.00 12.33 1.86

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 1"

EMISFACT NORTH HROFDY 8 8 4 4 10 21
 EMISFACT NORTH HROFDY 21 17 17 17 13 8
 EMISFACT NORTH HROFDY 8 13 17 21 21 31
 EMISFACT NORTH HROFDY 42 21 21 38 31 17
 EMISFACT SOUTH HROFDY 8 8 4 4 10 21
 EMISFACT SOUTH HROFDY 21 17 17 13 8
 EMISFACT SOUTH HROFDY 8 13 17 21 21 31
 EMISFACT SOUTH HROFDY 42 21 21 38 31 17

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 2"

EMISFACT L0001106 HROFDY 3 3 2 2 4 8
 EMISFACT L0001106 HROFDY 8 7 7 7 5 3
 EMISFACT L0001106 HROFDY 3 5 7 8 8 13
 EMISFACT L0001106 HROFDY 17 8 8 15 13 7
 EMISFACT L0001107 HROFDY 3 3 2 2 4 8
 EMISFACT L0001107 HROFDY 8 7 7 7 5 3
 EMISFACT L0001107 HROFDY 3 5 7 8 8 13
 EMISFACT L0001107 HROFDY 17 8 8 15 13 7
 EMISFACT L0001108 HROFDY 3 3 2 2 4 8
 EMISFACT L0001108 HROFDY 8 7 7 7 5 3
 EMISFACT L0001108 HROFDY 3 5 7 8 8 13
 EMISFACT L0001108 HROFDY 17 8 8 15 13 7
 EMISFACT L0001109 HROFDY 3 3 2 2 4 8
 EMISFACT L0001109 HROFDY 8 7 7 7 5 3
 EMISFACT L0001109 HROFDY 3 5 7 8 8 13
 EMISFACT L0001109 HROFDY 17 8 8 15 13 7
 EMISFACT L0001110 HROFDY 3 3 2 2 4 8
 EMISFACT L0001110 HROFDY 8 7 7 7 5 3
 EMISFACT L0001110 HROFDY 3 5 7 8 8 13
 EMISFACT L0001110 HROFDY 17 8 8 15 13 7
 EMISFACT L0001111 HROFDY 3 3 2 2 4 8
 EMISFACT L0001111 HROFDY 8 7 7 7 5 3
 EMISFACT L0001111 HROFDY 3 5 7 8 8 13
 EMISFACT L0001111 HROFDY 17 8 8 15 13 7
 EMISFACT L0001112 HROFDY 3 3 2 2 4 8
 EMISFACT L0001112 HROFDY 8 7 7 7 5 3
 EMISFACT L0001112 HROFDY 3 5 7 8 8 13
 EMISFACT L0001112 HROFDY 17 8 8 15 13 7
 EMISFACT L0001113 HROFDY 3 3 2 2 4 8
 EMISFACT L0001113 HROFDY 8 7 7 7 5 3
 EMISFACT L0001113 HROFDY 3 5 7 8 8 13
 EMISFACT L0001113 HROFDY 17 8 8 15 13 7
 EMISFACT L0001114 HROFDY 3 3 2 2 4 8
 EMISFACT L0001114 HROFDY 8 7 7 7 5 3
 EMISFACT L0001114 HROFDY 3 5 7 8 8 13
 EMISFACT L0001114 HROFDY 17 8 8 15 13 7
 EMISFACT L0001115 HROFDY 3 3 2 2 4 8
 EMISFACT L0001115 HROFDY 8 7 7 7 5 3

EMISFACT L0001148 HROFDY 3 5 7 8 8 13
EMISFACT L0001148 HROFDY 17 8 8 15 13 7
EMISFACT L0001149 HROFDY 3 3 2 2 4 8
EMISFACT L0001149 HROFDY 8 7 7 7 5 3
EMISFACT L0001149 HROFDY 3 5 7 8 8 13
EMISFACT L0001149 HROFDY 17 8 8 15 13 7
EMISFACT L0001150 HROFDY 3 3 2 2 4 8
EMISFACT L0001150 HROFDY 8 7 7 7 5 3
EMISFACT L0001150 HROFDY 3 5 7 8 8 13
EMISFACT L0001150 HROFDY 17 8 8 15 13 7
EMISFACT L0001151 HROFDY 3 3 2 2 4 8
EMISFACT L0001151 HROFDY 8 7 7 7 5 3
EMISFACT L0001151 HROFDY 3 5 7 8 8 13
EMISFACT L0001151 HROFDY 17 8 8 15 13 7
EMISFACT L0001152 HROFDY 3 3 2 2 4 8
EMISFACT L0001152 HROFDY 8 7 7 7 5 3
EMISFACT L0001152 HROFDY 3 5 7 8 8 13
EMISFACT L0001152 HROFDY 17 8 8 15 13 7
EMISFACT L0001153 HROFDY 3 3 2 2 4 8
EMISFACT L0001153 HROFDY 8 7 7 7 5 3
EMISFACT L0001153 HROFDY 3 5 7 8 8 13
EMISFACT L0001153 HROFDY 17 8 8 15 13 7
EMISFACT L0001154 HROFDY 3 3 2 2 4 8
EMISFACT L0001154 HROFDY 8 7 7 7 5 3
EMISFACT L0001154 HROFDY 3 5 7 8 8 13
EMISFACT L0001154 HROFDY 17 8 8 15 13 7
EMISFACT L0001155 HROFDY 3 3 2 2 4 8
EMISFACT L0001155 HROFDY 8 7 7 7 5 3
EMISFACT L0001155 HROFDY 3 5 7 8 8 13
EMISFACT L0001155 HROFDY 17 8 8 15 13 7
EMISFACT L0001156 HROFDY 3 3 2 2 4 8
EMISFACT L0001156 HROFDY 8 7 7 7 5 3
EMISFACT L0001156 HROFDY 3 5 7 8 8 13
EMISFACT L0001156 HROFDY 17 8 8 15 13 7
EMISFACT L0001157 HROFDY 3 3 2 2 4 8
EMISFACT L0001157 HROFDY 8 7 7 7 5 3
EMISFACT L0001157 HROFDY 3 5 7 8 8 13
EMISFACT L0001157 HROFDY 17 8 8 15 13 7
EMISFACT L0001158 HROFDY 3 3 2 2 4 8
EMISFACT L0001158 HROFDY 8 7 7 7 5 3
EMISFACT L0001158 HROFDY 3 5 7 8 8 13
EMISFACT L0001158 HROFDY 17 8 8 15 13 7
EMISFACT L0001159 HROFDY 3 3 2 2 4 8
EMISFACT L0001159 HROFDY 8 7 7 7 5 3
EMISFACT L0001159 HROFDY 3 5 7 8 8 13
EMISFACT L0001159 HROFDY 17 8 8 15 13 7
EMISFACT L0001160 HROFDY 3 3 2 2 4 8
EMISFACT L0001160 HROFDY 8 7 7 7 5 3
EMISFACT L0001160 HROFDY 3 5 7 8 8 13
EMISFACT L0001160 HROFDY 17 8 8 15 13 7
EMISFACT L0001161 HROFDY 3 3 2 2 4 8
EMISFACT L0001161 HROFDY 8 7 7 7 5 3
EMISFACT L0001161 HROFDY 3 5 7 8 8 13
EMISFACT L0001161 HROFDY 17 8 8 15 13 7
EMISFACT L0001162 HROFDY 3 3 2 2 4 8
EMISFACT L0001162 HROFDY 8 7 7 7 5 3
EMISFACT L0001162 HROFDY 3 5 7 8 8 13
EMISFACT L0001162 HROFDY 17 8 8 15 13 7
EMISFACT L0001163 HROFDY 3 3 2 2 4 8
EMISFACT L0001163 HROFDY 8 7 7 7 5 3
EMISFACT L0001163 HROFDY 3 5 7 8 8 13
EMISFACT L0001163 HROFDY 17 8 8 15 13 7
EMISFACT L0001164 HROFDY 3 3 2 2 4 8
EMISFACT L0001164 HROFDY 8 7 7 7 5 3
EMISFACT L0001164 HROFDY 3 5 7 8 8 13
EMISFACT L0001164 HROFDY 17 8 8 15 13 7

EMISFACT L0001165 HROFDY 3 3 2 2 4 8
EMISFACT L0001165 HROFDY 8 7 7 7 5 3
EMISFACT L0001165 HROFDY 3 5 7 8 8 13
EMISFACT L0001165 HROFDY 17 8 8 15 13 7

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 3"

EMISFACT L0001166 HROFDY 8 8 4 4 10 21
EMISFACT L0001166 HROFDY 21 17 17 17 13 8
EMISFACT L0001166 HROFDY 8 13 17 21 21 31
EMISFACT L0001166 HROFDY 42 21 21 38 31 17
EMISFACT L0001167 HROFDY 8 8 4 4 10 21
EMISFACT L0001167 HROFDY 21 17 17 17 13 8
EMISFACT L0001167 HROFDY 8 13 17 21 21 31
EMISFACT L0001167 HROFDY 42 21 21 38 31 17
EMISFACT L0001168 HROFDY 8 8 4 4 10 21
EMISFACT L0001168 HROFDY 21 17 17 17 13 8
EMISFACT L0001168 HROFDY 8 13 17 21 21 31
EMISFACT L0001168 HROFDY 42 21 21 38 31 17
EMISFACT L0001082 HROFDY 8 8 4 4 10 21
EMISFACT L0001082 HROFDY 21 17 17 17 13 8
EMISFACT L0001082 HROFDY 8 13 17 21 21 31
EMISFACT L0001082 HROFDY 42 21 21 38 31 17
EMISFACT L0001083 HROFDY 8 8 4 4 10 21
EMISFACT L0001083 HROFDY 21 17 17 17 13 8
EMISFACT L0001083 HROFDY 8 13 17 21 21 31
EMISFACT L0001083 HROFDY 42 21 21 38 31 17
EMISFACT L0001084 HROFDY 8 8 4 4 10 21
EMISFACT L0001084 HROFDY 21 17 17 17 13 8
EMISFACT L0001084 HROFDY 8 13 17 21 21 31
EMISFACT L0001084 HROFDY 42 21 21 38 31 17
EMISFACT L0001085 HROFDY 8 8 4 4 10 21
EMISFACT L0001085 HROFDY 21 17 17 17 13 8
EMISFACT L0001085 HROFDY 8 13 17 21 21 31
EMISFACT L0001085 HROFDY 42 21 21 38 31 17
EMISFACT L0001086 HROFDY 8 8 4 4 10 21
EMISFACT L0001086 HROFDY 21 17 17 17 13 8
EMISFACT L0001086 HROFDY 8 13 17 21 21 31
EMISFACT L0001086 HROFDY 42 21 21 38 31 17

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 4"

EMISFACT L0001169 HROFDY 4 4 2 2 5 10
EMISFACT L0001169 HROFDY 10 8 8 8 6 4
EMISFACT L0001169 HROFDY 4 6 8 10 10 16
EMISFACT L0001169 HROFDY 21 10 10 19 16 8
EMISFACT L0001170 HROFDY 4 4 2 2 5 10
EMISFACT L0001170 HROFDY 10 8 8 8 6 4
EMISFACT L0001170 HROFDY 4 6 8 10 10 16
EMISFACT L0001170 HROFDY 21 10 10 19 16 8
EMISFACT L0001171 HROFDY 4 4 2 2 5 10
EMISFACT L0001171 HROFDY 10 8 8 8 6 4
EMISFACT L0001171 HROFDY 4 6 8 10 10 16
EMISFACT L0001171 HROFDY 21 10 10 19 16 8
EMISFACT L0001172 HROFDY 4 4 2 2 5 10
EMISFACT L0001172 HROFDY 10 8 8 8 6 4
EMISFACT L0001172 HROFDY 4 6 8 10 10 16
EMISFACT L0001172 HROFDY 21 10 10 19 16 8
EMISFACT L0001173 HROFDY 4 4 2 2 5 10
EMISFACT L0001173 HROFDY 10 8 8 8 6 4
EMISFACT L0001173 HROFDY 4 6 8 10 10 16
EMISFACT L0001173 HROFDY 21 10 10 19 16 8
EMISFACT L0001174 HROFDY 4 4 2 2 5 10
EMISFACT L0001174 HROFDY 10 8 8 8 6 4
EMISFACT L0001174 HROFDY 4 6 8 10 10 16
EMISFACT L0001174 HROFDY 21 10 10 19 16 8

EMISFACT L0001190 HROFDY 5 7 10 12 12 19
 EMISFACT L0001190 HROFDY 25 12 12 22 19 10
 EMISFACT L0001191 HROFDY 5 5 2 2 6 12
 EMISFACT L0001191 HROFDY 12 10 10 10 7 5
 EMISFACT L0001191 HROFDY 5 7 10 12 12 19
 EMISFACT L0001191 HROFDY 25 12 12 22 19 10
 EMISFACT L0001192 HROFDY 5 5 2 2 6 12
 EMISFACT L0001192 HROFDY 12 10 10 10 7 5
 EMISFACT L0001192 HROFDY 5 7 10 12 12 19
 EMISFACT L0001192 HROFDY 25 12 12 22 19 10
 EMISFACT L0001193 HROFDY 5 5 2 2 6 12
 EMISFACT L0001193 HROFDY 12 10 10 10 7 5
 EMISFACT L0001193 HROFDY 5 7 10 12 12 19
 EMISFACT L0001193 HROFDY 25 12 12 22 19 10
 EMISFACT L0001194 HROFDY 5 5 2 2 6 12
 EMISFACT L0001194 HROFDY 12 10 10 10 7 5
 EMISFACT L0001194 HROFDY 5 7 10 12 12 19
 EMISFACT L0001194 HROFDY 25 12 12 22 19 10
 EMISFACT L0001195 HROFDY 5 5 2 2 6 12
 EMISFACT L0001195 HROFDY 12 10 10 10 7 5
 EMISFACT L0001195 HROFDY 5 7 10 12 12 19
 EMISFACT L0001195 HROFDY 25 12 12 22 19 10
 EMISFACT L0001196 HROFDY 5 5 2 2 6 12
 EMISFACT L0001196 HROFDY 12 10 10 10 7 5
 EMISFACT L0001196 HROFDY 5 7 10 12 12 19
 EMISFACT L0001196 HROFDY 25 12 12 22 19 10
 EMISFACT L0001197 HROFDY 5 5 2 2 6 12
 EMISFACT L0001197 HROFDY 12 10 10 10 7 5
 EMISFACT L0001197 HROFDY 5 7 10 12 12 19
 EMISFACT L0001197 HROFDY 25 12 12 22 19 10
 EMISFACT L0001198 HROFDY 5 5 2 2 6 12
 EMISFACT L0001198 HROFDY 12 10 10 10 7 5
 EMISFACT L0001198 HROFDY 5 7 10 12 12 19
 EMISFACT L0001198 HROFDY 25 12 12 22 19 10
 EMISFACT L0001199 HROFDY 5 5 2 2 6 12
 EMISFACT L0001199 HROFDY 12 10 10 10 7 5
 EMISFACT L0001199 HROFDY 5 7 10 12 12 19
 EMISFACT L0001199 HROFDY 25 12 12 22 19 10
 EMISFACT L0001200 HROFDY 5 5 2 2 6 12
 EMISFACT L0001200 HROFDY 12 10 10 10 7 5
 EMISFACT L0001200 HROFDY 5 7 10 12 12 19
 EMISFACT L0001200 HROFDY 25 12 12 22 19 10
 EMISFACT L0001201 HROFDY 5 5 2 2 6 12
 EMISFACT L0001201 HROFDY 12 10 10 10 7 5
 EMISFACT L0001201 HROFDY 5 7 10 12 12 19
 EMISFACT L0001201 HROFDY 25 12 12 22 19 10
 EMISFACT L0001202 HROFDY 5 5 2 2 6 12
 EMISFACT L0001202 HROFDY 12 10 10 10 7 5
 EMISFACT L0001202 HROFDY 5 7 10 12 12 19
 EMISFACT L0001202 HROFDY 25 12 12 22 19 10
 EMISFACT L0001203 HROFDY 5 5 2 2 6 12
 EMISFACT L0001203 HROFDY 12 10 10 10 7 5
 EMISFACT L0001203 HROFDY 5 7 10 12 12 19
 EMISFACT L0001203 HROFDY 25 12 12 22 19 10
 EMISFACT L0001204 HROFDY 5 5 2 2 6 12
 EMISFACT L0001204 HROFDY 12 10 10 10 7 5
 EMISFACT L0001204 HROFDY 5 7 10 12 12 19
 EMISFACT L0001204 HROFDY 25 12 12 22 19 10
 EMISFACT L0001205 HROFDY 5 5 2 2 6 12
 EMISFACT L0001205 HROFDY 12 10 10 10 7 5
 EMISFACT L0001205 HROFDY 5 7 10 12 12 19
 EMISFACT L0001205 HROFDY 25 12 12 22 19 10
 SRCGROUP ALL
 SO FINISHED
 **

** ISCT3 Receptor Pathway

 **
 **
 RE STARTING
 ** DESCREC "UPOLI" "Receptors generated from Uniform Polar Grid"
 DISCCART 485024.23 3755540.51 1.50
 DISCCART 485024.23 3755640.51 1.50
 DISCCART 485024.23 3755740.51 1.50
 DISCCART 485024.23 3755840.51 1.50
 DISCCART 485024.23 3755940.51 1.50
 DISCCART 485024.23 3756040.51 1.50
 DISCCART 485024.23 3756140.51 1.50
 DISCCART 485024.23 3756240.51 1.50
 DISCCART 485024.23 3756340.51 1.50
 DISCCART 485024.23 3756440.51 1.50
 DISCCART 485024.23 3756540.51 1.50
 DISCCART 485024.23 3756640.51 1.50
 DISCCART 485024.23 3756740.51 1.50
 DISCCART 485024.23 3756840.51 1.50
 DISCCART 485024.23 3756940.51 1.50
 DISCCART 485024.23 3757040.51 1.50
 DISCCART 485024.23 3757140.51 1.50
 DISCCART 485024.23 3757240.51 1.50
 DISCCART 485024.23 3757340.51 1.50
 DISCCART 485024.23 3757440.51 1.50
 DISCCART 485024.23 3757540.51 1.50
 DISCCART 485024.23 3757640.51 1.50
 DISCCART 485024.23 3757740.51 1.50
 DISCCART 485024.23 3757840.51 1.50
 DISCCART 485024.23 3757940.51 1.50
 DISCCART 485024.23 3758040.51 1.50
 DISCCART 485024.23 3758140.51 1.50
 DISCCART 485024.23 3758240.51 1.50
 DISCCART 485076.32 3755535.95 1.50
 DISCCART 485093.69 3755634.43 1.50
 DISCCART 485111.05 3755732.91 1.50
 DISCCART 485128.42 3755831.39 1.50
 DISCCART 485145.78 3755929.88 1.50
 DISCCART 485163.15 3756028.36 1.50
 DISCCART 485180.51 3756126.84 1.50
 DISCCART 485197.88 3756225.32 1.50
 DISCCART 485215.24 3756323.80 1.50
 DISCCART 485232.61 3756422.28 1.50
 DISCCART 485249.97 3756520.76 1.50
 DISCCART 485267.34 3756619.24 1.50
 DISCCART 485284.70 3756717.72 1.50
 DISCCART 485302.07 3756816.20 1.50
 DISCCART 485319.43 3756914.68 1.50
 DISCCART 485336.80 3757013.16 1.50
 DISCCART 485354.16 3757111.64 1.50
 DISCCART 485371.53 3757210.13 1.50
 DISCCART 485388.89 3757308.61 1.50
 DISCCART 485406.26 3757407.09 1.50
 DISCCART 485423.62 3757505.57 1.50
 DISCCART 485440.99 3757604.05 1.50
 DISCCART 485458.35 3757702.53 1.50
 DISCCART 485475.72 3757801.01 1.50
 DISCCART 485493.08 3757899.49 1.50
 DISCCART 485510.44 3757997.97 1.50
 DISCCART 485527.81 3758096.45 1.50
 DISCCART 485545.17 3758194.93 1.50
 DISCCART 485126.84 3755522.42 1.50
 DISCCART 485161.04 3755616.39 1.50
 DISCCART 485195.24 3755710.36 1.50
 DISCCART 485229.44 3755804.33 1.50

DISCCART 485263.64 3755898.29 1.50
DISCCART 485297.85 3755992.26 1.50
DISCCART 485332.05 3756086.23 1.50
DISCCART 485366.25 3756180.20 1.50
DISCCART 485400.45 3756274.17 1.50
DISCCART 485434.65 3756368.14 1.50
DISCCART 485468.86 3756462.11 1.50
DISCCART 485503.06 3756556.08 1.50
DISCCART 485537.26 3756650.05 1.50
DISCCART 485571.46 3756744.02 1.50
DISCCART 485605.66 3756837.99 1.50
DISCCART 485639.87 3756931.96 1.50
DISCCART 485674.07 3757025.93 1.50
DISCCART 485708.27 3757119.90 1.50
DISCCART 485742.47 3757213.86 1.50
DISCCART 485776.67 3757307.83 1.50
DISCCART 485810.88 3757401.80 1.50
DISCCART 485845.08 3757495.77 1.50
DISCCART 485879.28 3757589.74 1.50
DISCCART 485913.48 3757683.71 1.50
DISCCART 485947.68 3757777.68 1.50
DISCCART 485981.89 3757871.65 1.50
DISCCART 486016.09 3757965.62 1.50
DISCCART 486050.29 3758059.59 1.50
DISCCART 485174.23 3755500.32 1.50
DISCCART 485224.23 3755586.92 1.50
DISCCART 485274.23 3755673.52 1.50
DISCCART 485324.23 3755760.13 1.50
DISCCART 485374.23 3755846.73 1.50
DISCCART 485424.23 3755933.33 1.50
DISCCART 485474.23 3756019.93 1.50
DISCCART 485524.23 3756106.54 1.50
DISCCART 485574.23 3756193.14 1.50
DISCCART 485624.23 3756279.74 1.50
DISCCART 485674.23 3756366.34 1.50
DISCCART 485724.23 3756452.95 1.50
DISCCART 485774.23 3756539.55 1.50
DISCCART 485824.23 3756626.15 1.50
DISCCART 485874.23 3756712.75 1.50
DISCCART 485924.23 3756799.36 1.50
DISCCART 485974.23 3756885.96 1.50
DISCCART 486024.23 3756972.56 1.50
DISCCART 486074.23 3757059.16 1.50
DISCCART 486124.23 3757145.77 1.50
DISCCART 486174.23 3757232.37 1.50
DISCCART 486224.23 3757318.97 1.50
DISCCART 486274.23 3757405.57 1.50
DISCCART 486324.23 3757492.18 1.50
DISCCART 486374.23 3757578.78 1.50
DISCCART 486424.23 3757665.38 1.50
DISCCART 486474.23 3757751.98 1.50
DISCCART 486524.23 3757838.59 1.50
DISCCART 485217.07 3755470.32 1.50
DISCCART 485281.35 3755546.93 1.50
DISCCART 485345.62 3755623.53 1.50
DISCCART 485409.90 3755700.14 1.50
DISCCART 485474.18 3755776.74 1.50
DISCCART 485538.46 3755853.35 1.50
DISCCART 485602.74 3755929.95 1.50
DISCCART 485667.02 3756006.55 1.50
DISCCART 485731.30 3756083.16 1.50
DISCCART 485795.58 3756159.76 1.50
DISCCART 485859.85 3756236.37 1.50
DISCCART 485924.13 3756312.97 1.50
DISCCART 485988.41 3756389.58 1.50
DISCCART 486052.69 3756466.18 1.50

DISCCART 486116.97 3756542.79 1.50
DISCCART 486181.25 3756619.39 1.50
DISCCART 486245.53 3756695.99 1.50
DISCCART 486309.81 3756772.60 1.50
DISCCART 486374.08 3756849.20 1.50
DISCCART 486438.36 3756925.81 1.50
DISCCART 486502.64 3757002.41 1.50
DISCCART 486566.92 3757079.02 1.50
DISCCART 486631.20 3757155.62 1.50
DISCCART 486695.48 3757232.23 1.50
DISCCART 486759.76 3757308.83 1.50
DISCCART 486824.04 3757385.43 1.50
DISCCART 486888.31 3757462.04 1.50
DISCCART 486952.59 3757538.64 1.50
DISCCART 485330.65 3755497.63 1.50
DISCCART 485407.25 3755561.90 1.50
DISCCART 485483.86 3755626.18 1.50
DISCCART 485560.46 3755690.46 1.50
DISCCART 485637.07 3755754.74 1.50
DISCCART 485713.67 3755819.02 1.50
DISCCART 485790.27 3755883.30 1.50
DISCCART 485866.88 3755947.58 1.50
DISCCART 485943.48 3756011.86 1.50
DISCCART 486020.09 3756076.13 1.50
DISCCART 486096.69 3756140.41 1.50
DISCCART 486173.30 3756204.69 1.50
DISCCART 486249.90 3756268.97 1.50
DISCCART 486326.51 3756333.25 1.50
DISCCART 486403.11 3756397.53 1.50
DISCCART 486479.71 3756461.81 1.50
DISCCART 486556.32 3756526.09 1.50
DISCCART 486632.92 3756590.36 1.50
DISCCART 486709.53 3756654.64 1.50
DISCCART 486786.13 3756718.92 1.50
DISCCART 486862.74 3756783.20 1.50
DISCCART 486939.34 3756847.48 1.50
DISCCART 487015.95 3756911.76 1.50
DISCCART 487092.55 3756976.04 1.50
DISCCART 487169.15 3757040.32 1.50
DISCCART 487245.76 3757104.59 1.50
DISCCART 487322.36 3757168.87 1.50
DISCCART 485457.24 3755490.51 1.50
DISCCART 485543.85 3755540.51 1.50
DISCCART 485630.45 3755590.51 1.50
DISCCART 485717.05 3755640.51 1.50
DISCCART 485803.65 3755690.51 1.50
DISCCART 485890.26 3755740.51 1.50
DISCCART 485976.86 3755790.51 1.50
DISCCART 486063.46 3755840.51 1.50
DISCCART 486150.06 3755890.51 1.50
DISCCART 486236.67 3755940.51 1.50
DISCCART 486323.27 3755990.51 1.50
DISCCART 486409.87 3756040.51 1.50
DISCCART 486496.47 3756090.51 1.50
DISCCART 486583.08 3756140.51 1.50
DISCCART 486669.68 3756190.51 1.50
DISCCART 486756.28 3756240.51 1.50
DISCCART 486842.88 3756290.51 1.50
DISCCART 486929.49 3756340.51 1.50
DISCCART 487016.09 3756390.51 1.50
DISCCART 487102.69 3756440.51 1.50
DISCCART 487189.29 3756490.51 1.50
DISCCART 487275.90 3756540.51 1.50
DISCCART 487362.50 3756590.51 1.50
DISCCART 487449.10 3756640.51 1.50
DISCCART 487535.70 3756690.51 1.50

DISCCART 487622.31 3756740.51 1.50
DISCCART 485400.11 3755377.32 1.50
DISCCART 485494.08 3755411.52 1.50
DISCCART 485268.92 3755001.94 1.50
DISCCART 485682.01 3755479.92 1.50
DISCCART 485775.98 3755514.13 1.50
DISCCART 485869.95 3755548.33 1.50
DISCCART 485963.92 3755582.53 1.50
DISCCART 486057.89 3755616.73 1.50
DISCCART 486151.86 3755650.93 1.50
DISCCART 486245.83 3755685.14 1.50
DISCCART 486339.80 3755719.34 1.50
DISCCART 486433.77 3755753.54 1.50
DISCCART 486527.74 3755787.74 1.50
DISCCART 486621.71 3755821.94 1.50
DISCCART 486715.68 3755856.15 1.50
DISCCART 486809.65 3755890.35 1.50
DISCCART 486903.62 3755924.55 1.50
DISCCART 486997.58 3755958.75 1.50
DISCCART 487091.55 3755992.95 1.50
DISCCART 487185.52 3756027.16 1.50
DISCCART 487279.49 3756061.36 1.50
DISCCART 487373.46 3756095.56 1.50
DISCCART 487467.43 3756129.76 1.50
DISCCART 487561.40 3756163.96 1.50
DISCCART 487655.37 3756198.17 1.50
DISCCART 487749.34 3756232.37 1.50
DISCCART 487843.31 3756266.57 1.50
DISCCART 485418.15 3755309.97 1.50
DISCCART 485615.11 3755344.70 1.50
DISCCART 485713.60 3755362.06 1.50
DISCCART 485812.08 3755379.43 1.50
DISCCART 485910.56 3755396.79 1.50
DISCCART 486009.04 3755414.16 1.50
DISCCART 486107.52 3755431.52 1.50
DISCCART 486206.00 3755448.89 1.50
DISCCART 486304.48 3755466.25 1.50
DISCCART 486402.96 3755483.62 1.50
DISCCART 486501.44 3755500.98 1.50
DISCCART 486599.92 3755518.35 1.50
DISCCART 486698.40 3755535.71 1.50
DISCCART 486796.88 3755553.08 1.50
DISCCART 486895.36 3755570.44 1.50
DISCCART 486993.85 3755587.81 1.50
DISCCART 487092.33 3755605.17 1.50
DISCCART 487190.81 3755622.54 1.50
DISCCART 487289.29 3755639.90 1.50
DISCCART 487387.77 3755657.27 1.50
DISCCART 487486.25 3755674.63 1.50
DISCCART 487584.73 3755692.00 1.50
DISCCART 487683.21 3755709.36 1.50
DISCCART 487781.69 3755726.72 1.50
DISCCART 487880.17 3755744.09 1.50
DISCCART 487978.65 3755761.45 1.50
DISCCART 485324.23 3755240.51 1.50
DISCCART 485424.23 3755240.51 1.50
DISCCART 485524.23 3755240.51 1.50
DISCCART 485624.23 3755240.51 1.50
DISCCART 485724.23 3755240.51 1.50
DISCCART 485824.23 3755240.51 1.50
DISCCART 485924.23 3755240.51 1.50
DISCCART 486024.23 3755240.51 1.50
DISCCART 486124.23 3755240.51 1.50
DISCCART 486224.23 3755240.51 1.50
DISCCART 486324.23 3755240.51 1.50
DISCCART 486424.23 3755240.51 1.50

DISCCART 486524.23 3755240.51 1.50
DISCCART 486624.23 3755240.51 1.50
DISCCART 486724.23 3755240.51 1.50
DISCCART 486824.23 3755240.51 1.50
DISCCART 486924.23 3755240.51 1.50
DISCCART 487024.23 3755240.51 1.50
DISCCART 487124.23 3755240.51 1.50
DISCCART 487224.23 3755240.51 1.50
DISCCART 487324.23 3755240.51 1.50
DISCCART 487424.23 3755240.51 1.50
DISCCART 487524.23 3755240.51 1.50
DISCCART 487624.23 3755240.51 1.50
DISCCART 487724.23 3755240.51 1.50
DISCCART 487824.23 3755240.51 1.50
DISCCART 487924.23 3755240.51 1.50
DISCCART 488024.23 3755240.51 1.50
DISCCART 485418.15 3755171.05 1.50
DISCCART 485615.11 3755136.32 1.50
DISCCART 485713.60 3755118.96 1.50
DISCCART 485812.08 3755101.59 1.50
DISCCART 485910.56 3755084.23 1.50
DISCCART 486009.04 3755066.86 1.50
DISCCART 486107.52 3755049.50 1.50
DISCCART 486206.00 3755032.13 1.50
DISCCART 486304.48 3755014.77 1.50
DISCCART 486402.96 3754997.40 1.50
DISCCART 486501.44 3754980.04 1.50
DISCCART 486599.92 3754962.67 1.50
DISCCART 486698.40 3754945.31 1.50
DISCCART 486796.88 3754927.94 1.50
DISCCART 486895.36 3754910.58 1.50
DISCCART 486993.85 3754893.21 1.50
DISCCART 487092.33 3754875.85 1.50
DISCCART 487190.81 3754858.48 1.50
DISCCART 487289.29 3754841.12 1.50
DISCCART 487387.77 3754823.75 1.50
DISCCART 487486.25 3754806.39 1.50
DISCCART 487584.73 3754789.02 1.50
DISCCART 487683.21 3754771.66 1.50
DISCCART 487781.69 3754754.30 1.50
DISCCART 487880.17 3754736.93 1.50
DISCCART 487978.65 3754719.57 1.50
DISCCART 485400.11 3755103.70 1.50
DISCCART 485494.08 3755069.50 1.50
DISCCART 485588.05 3755035.30 1.50
DISCCART 485682.01 3755001.10 1.50
DISCCART 485775.98 3754966.89 1.50
DISCCART 485869.95 3754932.69 1.50
DISCCART 485963.92 3754898.49 1.50
DISCCART 486057.89 3754864.29 1.50
DISCCART 486151.86 3754830.09 1.50
DISCCART 486245.83 3754795.88 1.50
DISCCART 486339.80 3754761.68 1.50
DISCCART 486433.77 3754727.48 1.50
DISCCART 486527.74 3754693.28 1.50
DISCCART 486621.71 3754659.08 1.50
DISCCART 486715.68 3754624.87 1.50
DISCCART 486809.65 3754590.67 1.50
DISCCART 486903.62 3754556.47 1.50
DISCCART 486997.58 3754522.27 1.50
DISCCART 487091.55 3754488.07 1.50
DISCCART 487185.52 3754453.86 1.50
DISCCART 487279.49 3754419.66 1.50
DISCCART 487373.46 3754385.46 1.50
DISCCART 487467.43 3754351.26 1.50
DISCCART 487561.40 3754317.06 1.50

DISCCART 487655.37 3754282.85 1.50
DISCCART 487749.34 3754248.65 1.50
DISCCART 487843.31 3754214.45 1.50
DISCCART 485457.24 3754990.51 1.50
DISCCART 485543.85 3754940.51 1.50
DISCCART 485630.45 3754890.51 1.50
DISCCART 485717.05 3754840.51 1.50
DISCCART 485803.65 3754790.51 1.50
DISCCART 485890.26 3754740.51 1.50
DISCCART 485976.86 3754690.51 1.50
DISCCART 486063.46 3754640.51 1.50
DISCCART 486150.06 3754590.51 1.50
DISCCART 486236.67 3754540.51 1.50
DISCCART 486323.27 3754490.51 1.50
DISCCART 486409.87 3754440.51 1.50
DISCCART 486496.47 3754390.51 1.50
DISCCART 486583.08 3754340.51 1.50
DISCCART 486669.68 3754290.51 1.50
DISCCART 486756.28 3754240.51 1.50
DISCCART 486842.88 3754190.51 1.50
DISCCART 486929.49 3754140.51 1.50
DISCCART 487016.09 3754090.51 1.50
DISCCART 487102.69 3754040.51 1.50
DISCCART 487189.29 3753990.51 1.50
DISCCART 487275.90 3753940.51 1.50
DISCCART 487362.50 3753890.51 1.50
DISCCART 487449.10 3753840.51 1.50
DISCCART 487535.70 3753790.51 1.50
DISCCART 487622.31 3753740.51 1.50
DISCCART 485330.65 3754983.39 1.50
DISCCART 485407.25 3754919.12 1.50
DISCCART 485483.86 3754854.84 1.50
DISCCART 485560.46 3754790.56 1.50
DISCCART 485637.07 3754726.28 1.50
DISCCART 485713.67 3754662.00 1.50
DISCCART 485790.27 3754597.72 1.50
DISCCART 485866.88 3754533.44 1.50
DISCCART 485943.48 3754469.16 1.50
DISCCART 486020.09 3754404.89 1.50
DISCCART 486096.69 3754340.61 1.50
DISCCART 486173.30 3754276.33 1.50
DISCCART 486249.90 3754212.05 1.50
DISCCART 486326.51 3754147.77 1.50
DISCCART 486403.11 3754083.49 1.50
DISCCART 486479.71 3754019.21 1.50
DISCCART 486556.32 3753954.93 1.50
DISCCART 486632.92 3753890.66 1.50
DISCCART 486709.53 3753826.38 1.50
DISCCART 486786.13 3753762.10 1.50
DISCCART 486862.74 3753697.82 1.50
DISCCART 486939.34 3753633.54 1.50
DISCCART 487015.95 3753569.26 1.50
DISCCART 487092.55 3753504.98 1.50
DISCCART 487169.15 3753440.70 1.50
DISCCART 487245.76 3753376.43 1.50
DISCCART 487322.36 3753312.15 1.50
DISCCART 485217.07 3755010.70 1.50
DISCCART 485281.35 3754934.09 1.50
DISCCART 485345.62 3754857.49 1.50
DISCCART 485409.90 3754780.88 1.50
DISCCART 485474.18 3754704.28 1.50
DISCCART 485538.46 3754627.67 1.50
DISCCART 485602.74 3754551.07 1.50
DISCCART 485667.02 3754474.47 1.50
DISCCART 485731.30 3754397.86 1.50
DISCCART 485795.58 3754321.26 1.50

DISCCART 485859.85 3754244.65 1.50
DISCCART 485924.13 3754168.05 1.50
DISCCART 485988.41 3754091.44 1.50
DISCCART 486052.69 3754014.84 1.50
DISCCART 486116.97 3753938.23 1.50
DISCCART 486181.25 3753861.63 1.50
DISCCART 486245.53 3753785.03 1.50
DISCCART 486309.81 3753708.42 1.50
DISCCART 486374.08 3753631.82 1.50
DISCCART 486438.36 3753555.21 1.50
DISCCART 486502.64 3753478.61 1.50
DISCCART 486566.92 3753402.00 1.50
DISCCART 486631.20 3753325.40 1.50
DISCCART 486695.48 3753248.79 1.50
DISCCART 486759.76 3753172.19 1.50
DISCCART 486824.04 3753095.59 1.50
DISCCART 486888.31 3753018.98 1.50
DISCCART 486952.59 3752942.38 1.50
DISCCART 485174.23 3754980.70 1.50
DISCCART 485224.23 3754894.10 1.50
DISCCART 485274.23 3754807.50 1.50
DISCCART 485324.23 3754720.89 1.50
DISCCART 485374.23 3754634.29 1.50
DISCCART 485424.23 3754547.69 1.50
DISCCART 485474.23 3754461.09 1.50
DISCCART 485524.23 3754374.48 1.50
DISCCART 485574.23 3754287.88 1.50
DISCCART 485624.23 3754201.28 1.50
DISCCART 485674.23 3754114.68 1.50
DISCCART 485724.23 3754028.07 1.50
DISCCART 485774.23 3753941.47 1.50
DISCCART 485824.23 3753854.87 1.50
DISCCART 485874.23 3753768.27 1.50
DISCCART 485924.23 3753681.66 1.50
DISCCART 485974.23 3753595.06 1.50
DISCCART 486024.23 3753508.46 1.50
DISCCART 486074.23 3753421.86 1.50
DISCCART 486124.23 3753335.25 1.50
DISCCART 486174.23 3753248.65 1.50
DISCCART 486224.23 3753162.05 1.50
DISCCART 486274.23 3753075.45 1.50
DISCCART 486324.23 3752988.84 1.50
DISCCART 486374.23 3752902.24 1.50
DISCCART 486424.23 3752815.64 1.50
DISCCART 486474.23 3752729.04 1.50
DISCCART 486524.23 3752642.43 1.50
DISCCART 485126.84 3754958.60 1.50
DISCCART 485161.04 3754864.63 1.50
DISCCART 485195.24 3754770.66 1.50
DISCCART 485229.44 3754676.69 1.50
DISCCART 485263.64 3754582.73 1.50
DISCCART 485297.85 3754488.76 1.50
DISCCART 485332.05 3754394.79 1.50
DISCCART 485366.25 3754300.82 1.50
DISCCART 485400.45 3754206.85 1.50
DISCCART 485434.65 3754112.88 1.50
DISCCART 485468.86 3754018.91 1.50
DISCCART 485503.06 3753924.94 1.50
DISCCART 485537.26 3753830.97 1.50
DISCCART 485571.46 3753737.00 1.50
DISCCART 485605.66 3753643.03 1.50
DISCCART 485639.87 3753549.06 1.50
DISCCART 485674.07 3753455.09 1.50
DISCCART 485708.27 3753361.12 1.50
DISCCART 485742.47 3753267.16 1.50
DISCCART 485776.67 3753173.19 1.50

DISCCART 485810.88 3753079.22 1.50
DISCCART 485845.08 3752985.25 1.50
DISCCART 485879.28 3752891.28 1.50
DISCCART 485913.48 3752797.31 1.50
DISCCART 485947.68 3752703.34 1.50
DISCCART 485981.89 3752609.37 1.50
DISCCART 486016.09 3752515.40 1.50
DISCCART 486050.29 3752421.43 1.50
DISCCART 485076.32 3754945.07 1.50
DISCCART 485093.69 3754846.59 1.50
DISCCART 485111.05 3754748.11 1.50
DISCCART 485128.42 3754649.63 1.50
DISCCART 485145.78 3754551.14 1.50
DISCCART 485163.15 3754452.66 1.50
DISCCART 485180.51 3754354.18 1.50
DISCCART 485197.88 3754255.70 1.50
DISCCART 485215.24 3754157.22 1.50
DISCCART 485232.61 3754058.74 1.50
DISCCART 485249.97 3753960.26 1.50
DISCCART 485267.34 3753861.78 1.50
DISCCART 485284.70 3753763.30 1.50
DISCCART 485302.07 3753664.82 1.50
DISCCART 485319.43 3753566.34 1.50
DISCCART 485336.80 3753467.86 1.50
DISCCART 485354.16 3753369.38 1.50
DISCCART 485371.53 3753270.89 1.50
DISCCART 485388.89 3753172.41 1.50
DISCCART 485406.26 3753073.93 1.50
DISCCART 485423.62 3752975.45 1.50
DISCCART 485440.99 3752876.97 1.50
DISCCART 485458.35 3752778.49 1.50
DISCCART 485475.72 3752680.01 1.50
DISCCART 485493.08 3752581.53 1.50
DISCCART 485510.44 3752483.05 1.50
DISCCART 485527.81 3752384.57 1.50
DISCCART 485545.17 3752286.09 1.50
DISCCART 485024.23 3754940.51 1.50
DISCCART 485024.23 3754840.51 1.50
DISCCART 485024.23 3754740.51 1.50
DISCCART 485024.23 3754640.51 1.50
DISCCART 485024.23 3754540.51 1.50
DISCCART 485024.23 3754440.51 1.50
DISCCART 485024.23 3754340.51 1.50
DISCCART 485024.23 3754240.51 1.50
DISCCART 485024.23 3754140.51 1.50
DISCCART 485024.23 3754040.51 1.50
DISCCART 485024.23 3753940.51 1.50
DISCCART 485024.23 3753840.51 1.50
DISCCART 485024.23 3753740.51 1.50
DISCCART 485024.23 3753640.51 1.50
DISCCART 485024.23 3753540.51 1.50
DISCCART 485024.23 3753440.51 1.50
DISCCART 485024.23 3753340.51 1.50
DISCCART 485024.23 3753240.51 1.50
DISCCART 485024.23 3753140.51 1.50
DISCCART 485024.23 3753040.51 1.50
DISCCART 485024.23 3752940.51 1.50
DISCCART 485024.23 3752840.51 1.50
DISCCART 485024.23 3752740.51 1.50
DISCCART 485024.23 3752640.51 1.50
DISCCART 485024.23 3752540.51 1.50
DISCCART 485024.23 3752440.51 1.50
DISCCART 485024.23 3752340.51 1.50
DISCCART 485024.23 3752240.51 1.50
DISCCART 484972.14 3754945.07 1.50
DISCCART 484954.77 3754846.59 1.50

DISCCART 484937.41 3754748.11 1.50
DISCCART 484920.04 3754649.63 1.50
DISCCART 484902.68 3754551.14 1.50
DISCCART 484885.31 3754452.66 1.50
DISCCART 484867.95 3754354.18 1.50
DISCCART 484850.58 3754255.70 1.50
DISCCART 484833.22 3754157.22 1.50
DISCCART 484815.85 3754058.74 1.50
DISCCART 484798.49 3753960.26 1.50
DISCCART 484781.12 3753861.78 1.50
DISCCART 484763.76 3753763.30 1.50
DISCCART 484746.39 3753664.82 1.50
DISCCART 484729.03 3753566.34 1.50
DISCCART 484711.66 3753467.86 1.50
DISCCART 484694.30 3753369.38 1.50
DISCCART 484676.93 3753270.89 1.50
DISCCART 484659.57 3753172.41 1.50
DISCCART 484642.20 3753073.93 1.50
DISCCART 484624.84 3752975.45 1.50
DISCCART 484607.47 3752876.97 1.50
DISCCART 484590.11 3752778.49 1.50
DISCCART 484572.74 3752680.01 1.50
DISCCART 484555.38 3752581.53 1.50
DISCCART 484538.02 3752483.05 1.50
DISCCART 484520.65 3752384.57 1.50
DISCCART 484503.29 3752286.09 1.50
DISCCART 484921.62 3754958.60 1.50
DISCCART 484887.42 3754864.63 1.50
DISCCART 484853.22 3754770.66 1.50
DISCCART 484819.02 3754676.69 1.50
DISCCART 484784.82 3754582.73 1.50
DISCCART 484750.61 3754488.76 1.50
DISCCART 484716.41 3754394.79 1.50
DISCCART 484682.21 3754300.82 1.50
DISCCART 484648.01 3754206.85 1.50
DISCCART 484613.81 3754112.88 1.50
DISCCART 484579.60 3754018.91 1.50
DISCCART 484545.40 3753924.94 1.50
DISCCART 484511.20 3753830.97 1.50
DISCCART 484477.00 3753737.00 1.50
DISCCART 484442.80 3753643.03 1.50
DISCCART 484408.59 3753549.06 1.50
DISCCART 484374.39 3753455.09 1.50
DISCCART 484340.19 3753361.12 1.50
DISCCART 484305.99 3753267.16 1.50
DISCCART 484271.79 3753173.19 1.50
DISCCART 484237.58 3753079.22 1.50
DISCCART 484203.38 3752985.25 1.50
DISCCART 484169.18 3752891.28 1.50
DISCCART 484134.98 3752797.31 1.50
DISCCART 484100.78 3752703.34 1.50
DISCCART 484066.57 3752609.37 1.50
DISCCART 484032.37 3752515.40 1.50
DISCCART 483998.17 3752421.43 1.50
DISCCART 484874.23 3754980.70 1.50
DISCCART 484824.23 3754894.10 1.50
DISCCART 484774.23 3754807.50 1.50
DISCCART 484724.23 3754720.89 1.50
DISCCART 484674.23 3754634.29 1.50
DISCCART 484624.23 3754547.69 1.50
DISCCART 484574.23 3754461.09 1.50
DISCCART 484524.23 3754374.48 1.50
DISCCART 484474.23 3754287.88 1.50
DISCCART 484424.23 3754201.28 1.50
DISCCART 484374.23 3754114.68 1.50
DISCCART 484324.23 3754028.07 1.50

DISCCART 484274.23 3753941.47 1.50
DISCCART 484224.23 3753854.87 1.50
DISCCART 484174.23 3753768.27 1.50
DISCCART 484124.23 3753681.66 1.50
DISCCART 484074.23 3753595.06 1.50
DISCCART 484024.23 3753508.46 1.50
DISCCART 483974.23 3753421.86 1.50
DISCCART 483924.23 3753335.25 1.50
DISCCART 483874.23 3753248.65 1.50
DISCCART 483824.23 3753162.05 1.50
DISCCART 483774.23 3753075.45 1.50
DISCCART 483724.23 3752988.84 1.50
DISCCART 483674.23 3752902.24 1.50
DISCCART 483624.23 3752815.64 1.50
DISCCART 483574.23 3752729.04 1.50
DISCCART 483524.23 3752642.43 1.50
DISCCART 484767.11 3754934.09 1.50
DISCCART 484702.84 3754857.49 1.50
DISCCART 484638.56 3754780.88 1.50
DISCCART 484574.28 3754704.28 1.50
DISCCART 484510.00 3754627.67 1.50
DISCCART 484445.72 3754551.07 1.50
DISCCART 484381.44 3754474.47 1.50
DISCCART 484317.16 3754397.86 1.50
DISCCART 484252.88 3754321.26 1.50
DISCCART 484188.61 3754244.65 1.50
DISCCART 484124.33 3754168.05 1.50
DISCCART 484060.05 3754091.44 1.50
DISCCART 483995.77 3754014.84 1.50
DISCCART 483931.49 3753938.23 1.50
DISCCART 483867.21 3753861.63 1.50
DISCCART 483802.93 3753785.03 1.50
DISCCART 483738.65 3753708.42 1.50
DISCCART 483674.38 3753631.82 1.50
DISCCART 483610.10 3753555.21 1.50
DISCCART 483545.82 3753478.61 1.50
DISCCART 483481.54 3753402.00 1.50
DISCCART 483417.26 3753325.40 1.50
DISCCART 483352.98 3753248.79 1.50
DISCCART 483288.70 3753172.19 1.50
DISCCART 483224.42 3753095.59 1.50
DISCCART 483160.15 3753018.98 1.50
DISCCART 483095.87 3752942.38 1.50
DISCCART 484717.81 3754983.39 1.50
DISCCART 484641.21 3754919.12 1.50
DISCCART 484564.60 3754854.84 1.50
DISCCART 484488.00 3754790.56 1.50
DISCCART 484411.39 3754726.28 1.50
DISCCART 484334.79 3754662.00 1.50
DISCCART 484258.19 3754597.72 1.50
DISCCART 484181.58 3754533.44 1.50
DISCCART 484104.98 3754469.16 1.50
DISCCART 484028.37 3754404.89 1.50
DISCCART 483951.77 3754340.61 1.50
DISCCART 483875.16 3754276.33 1.50
DISCCART 483798.56 3754212.05 1.50
DISCCART 483721.95 3754147.77 1.50
DISCCART 483645.35 3754083.49 1.50
DISCCART 483568.75 3754019.21 1.50
DISCCART 483492.14 3753954.93 1.50
DISCCART 483415.54 3753890.66 1.50
DISCCART 483338.93 3753826.38 1.50
DISCCART 483262.33 3753762.10 1.50
DISCCART 483185.72 3753697.82 1.50
DISCCART 483109.12 3753633.54 1.50
DISCCART 483032.51 3753569.26 1.50

DISCCART 482955.91 3753504.98 1.50
DISCCART 482879.31 3753440.70 1.50
DISCCART 482802.70 3753376.43 1.50
DISCCART 482726.10 3753312.15 1.50
DISCCART 484677.82 3755040.51 1.50
DISCCART 484591.22 3754990.51 1.50
DISCCART 484504.61 3754940.51 1.50
DISCCART 484418.01 3754890.51 1.50
DISCCART 484331.41 3754840.51 1.50
DISCCART 484244.81 3754790.51 1.50
DISCCART 484158.20 3754740.51 1.50
DISCCART 484071.60 3754690.51 1.50
DISCCART 483985.00 3754640.51 1.50
DISCCART 483898.40 3754590.51 1.50
DISCCART 483811.79 3754540.51 1.50
DISCCART 483725.19 3754490.51 1.50
DISCCART 483638.59 3754440.51 1.50
DISCCART 483551.99 3754390.51 1.50
DISCCART 483465.38 3754340.51 1.50
DISCCART 483378.78 3754290.51 1.50
DISCCART 483292.18 3754240.51 1.50
DISCCART 483205.58 3754190.51 1.50
DISCCART 483118.97 3754140.51 1.50
DISCCART 483032.37 3754090.51 1.50
DISCCART 482945.77 3754040.51 1.50
DISCCART 482859.17 3753990.51 1.50
DISCCART 482772.56 3753940.51 1.50
DISCCART 482685.96 3753890.51 1.50
DISCCART 482599.36 3753840.51 1.50
DISCCART 482512.76 3753790.51 1.50
DISCCART 482426.15 3753740.51 1.50
DISCCART 484648.35 3755103.70 1.50
DISCCART 484554.38 3755069.50 1.50
DISCCART 484460.41 3755035.30 1.50
DISCCART 484366.45 3755001.10 1.50
DISCCART 484272.48 3754966.89 1.50
DISCCART 484178.51 3754932.69 1.50
DISCCART 484084.54 3754898.49 1.50
DISCCART 483990.57 3754864.29 1.50
DISCCART 483896.60 3754830.09 1.50
DISCCART 483802.63 3754795.88 1.50
DISCCART 483708.66 3754761.68 1.50
DISCCART 483614.69 3754727.48 1.50
DISCCART 483520.72 3754693.28 1.50
DISCCART 483426.75 3754659.08 1.50
DISCCART 483332.78 3754624.87 1.50
DISCCART 483238.81 3754590.67 1.50
DISCCART 483144.84 3754556.47 1.50
DISCCART 483050.88 3754522.27 1.50
DISCCART 482956.91 3754488.07 1.50
DISCCART 482862.94 3754453.86 1.50
DISCCART 482768.97 3754419.66 1.50
DISCCART 482675.00 3754385.46 1.50
DISCCART 482581.03 3754351.26 1.50
DISCCART 482487.06 3754317.06 1.50
DISCCART 482393.09 3754282.85 1.50
DISCCART 482299.12 3754248.65 1.50
DISCCART 482205.15 3754214.45 1.50
DISCCART 484630.31 3755171.05 1.50
DISCCART 484531.83 3755153.69 1.50
DISCCART 484433.35 3755136.32 1.50
DISCCART 484334.86 3755118.96 1.50
DISCCART 484236.38 3755101.59 1.50
DISCCART 484137.90 3755084.23 1.50
DISCCART 484039.42 3755066.86 1.50
DISCCART 483940.94 3755049.50 1.50

DISCCART 483842.46 3755032.13 1.50
DISCCART 483743.98 3755014.77 1.50
DISCCART 483645.50 3754997.40 1.50
DISCCART 483547.02 3754980.04 1.50
DISCCART 483448.54 3754962.67 1.50
DISCCART 483350.06 3754945.31 1.50
DISCCART 483251.58 3754927.94 1.50
DISCCART 483153.10 3754910.58 1.50
DISCCART 483054.61 3754893.21 1.50
DISCCART 482956.13 3754875.85 1.50
DISCCART 482857.65 3754858.48 1.50
DISCCART 482759.17 3754841.12 1.50
DISCCART 482660.69 3754823.75 1.50
DISCCART 482562.21 3754806.39 1.50
DISCCART 482463.73 3754789.02 1.50
DISCCART 482365.25 3754771.66 1.50
DISCCART 482266.77 3754754.30 1.50
DISCCART 482168.29 3754736.93 1.50
DISCCART 482069.81 3754719.57 1.50
DISCCART 484624.23 3755240.51 1.50
DISCCART 484524.23 3755240.51 1.50
DISCCART 484424.23 3755240.51 1.50
DISCCART 484324.23 3755240.51 1.50
DISCCART 484224.23 3755240.51 1.50
DISCCART 484124.23 3755240.51 1.50
DISCCART 484024.23 3755240.51 1.50
DISCCART 483924.23 3755240.51 1.50
DISCCART 483824.23 3755240.51 1.50
DISCCART 483724.23 3755240.51 1.50
DISCCART 483624.23 3755240.51 1.50
DISCCART 485270.07 3754972.73 1.50
DISCCART 483424.23 3755240.51 1.50
DISCCART 483324.23 3755240.51 1.50
DISCCART 483224.23 3755240.51 1.50
DISCCART 483124.23 3755240.51 1.50
DISCCART 483024.23 3755240.51 1.50
DISCCART 482924.23 3755240.51 1.50
DISCCART 482824.23 3755240.51 1.50
DISCCART 482724.23 3755240.51 1.50
DISCCART 482624.23 3755240.51 1.50
DISCCART 482524.23 3755240.51 1.50
DISCCART 482424.23 3755240.51 1.50
DISCCART 482324.23 3755240.51 1.50
DISCCART 482224.23 3755240.51 1.50
DISCCART 482124.23 3755240.51 1.50
DISCCART 482024.23 3755240.51 1.50
DISCCART 484630.31 3755309.97 1.50
DISCCART 484531.83 3755327.33 1.50
DISCCART 484433.35 3755344.70 1.50
DISCCART 484334.86 3755362.06 1.50
DISCCART 484236.38 3755379.43 1.50
DISCCART 484137.90 3755396.79 1.50
DISCCART 484039.42 3755414.16 1.50
DISCCART 483940.94 3755431.52 1.50
DISCCART 485244.81 3754972.80 1.50
DISCCART 483743.98 3755466.25 1.50
DISCCART 483645.50 3755483.62 1.50
DISCCART 483547.02 3755500.98 1.50
DISCCART 483448.54 3755518.35 1.50
DISCCART 483350.06 3755535.71 1.50
DISCCART 483251.58 3755553.08 1.50
DISCCART 483153.10 3755570.44 1.50
DISCCART 483054.61 3755587.81 1.50
DISCCART 482956.13 3755605.17 1.50
DISCCART 482857.65 3755622.54 1.50
DISCCART 482759.17 3755639.90 1.50

DISCCART 482660.69 3755657.27 1.50
DISCCART 482562.21 3755674.63 1.50
DISCCART 482463.73 3755692.00 1.50
DISCCART 482365.25 3755709.36 1.50
DISCCART 482266.77 3755726.72 1.50
DISCCART 482168.29 3755744.09 1.50
DISCCART 482069.81 3755761.45 1.50
DISCCART 484648.35 3755377.32 1.50
DISCCART 484554.38 3755411.52 1.50
DISCCART 485246.73 3755001.74 1.50
DISCCART 484366.45 3755479.92 1.50
DISCCART 484272.48 3755514.13 1.50
DISCCART 484178.51 3755548.33 1.50
DISCCART 484084.54 3755582.53 1.50
DISCCART 483990.57 3755616.73 1.50
DISCCART 483896.60 3755650.93 1.50
DISCCART 483802.63 3755685.14 1.50
DISCCART 483708.66 3755719.34 1.50
DISCCART 483614.69 3755753.54 1.50
DISCCART 483520.72 3755787.74 1.50
DISCCART 483426.75 3755821.94 1.50
DISCCART 483332.78 3755856.15 1.50
DISCCART 483238.81 3755890.35 1.50
DISCCART 483144.84 3755924.55 1.50
DISCCART 483050.88 3755958.75 1.50
DISCCART 482956.91 3755992.95 1.50
DISCCART 482862.94 3756027.16 1.50
DISCCART 482768.97 3756061.36 1.50
DISCCART 482675.00 3756095.56 1.50
DISCCART 482581.03 3756129.76 1.50
DISCCART 482487.06 3756163.96 1.50
DISCCART 482393.09 3756198.17 1.50
DISCCART 482299.12 3756232.37 1.50
DISCCART 482205.15 3756266.57 1.50
DISCCART 484591.22 3755490.51 1.50
DISCCART 484504.61 3755540.51 1.50
DISCCART 484418.01 3755590.51 1.50
DISCCART 484331.41 3755640.51 1.50
DISCCART 484244.81 3755690.51 1.50
DISCCART 484158.20 3755740.51 1.50
DISCCART 484071.60 3755790.51 1.50
DISCCART 483985.00 3755840.51 1.50
DISCCART 483898.40 3755890.51 1.50
DISCCART 483811.79 3755940.51 1.50
DISCCART 483725.19 3755990.51 1.50
DISCCART 483638.59 3756040.51 1.50
DISCCART 483551.99 3756090.51 1.50
DISCCART 483465.38 3756140.51 1.50
DISCCART 483378.78 3756190.51 1.50
DISCCART 483292.18 3756240.51 1.50
DISCCART 483205.58 3756290.51 1.50
DISCCART 483118.97 3756340.51 1.50
DISCCART 483032.37 3756390.51 1.50
DISCCART 482945.77 3756440.51 1.50
DISCCART 482859.17 3756490.51 1.50
DISCCART 482772.56 3756540.51 1.50
DISCCART 482685.96 3756590.51 1.50
DISCCART 482599.36 3756640.51 1.50
DISCCART 482512.76 3756690.51 1.50
DISCCART 482426.15 3756740.51 1.50
DISCCART 484717.81 3755497.63 1.50
DISCCART 484641.21 3755561.90 1.50
DISCCART 484564.60 3755626.18 1.50
DISCCART 484488.00 3755690.46 1.50
DISCCART 484411.39 3755754.74 1.50
DISCCART 484334.79 3755819.02 1.50

DISCCART 484258.19 3755883.30 1.50
DISCCART 484181.58 3755947.58 1.50
DISCCART 484104.98 3756011.86 1.50
DISCCART 484028.37 3756076.13 1.50
DISCCART 483951.77 3756140.41 1.50
DISCCART 483875.16 3756204.69 1.50
DISCCART 483798.56 3756268.97 1.50
DISCCART 483721.95 3756333.25 1.50
DISCCART 483645.35 3756397.53 1.50
DISCCART 483568.75 3756461.81 1.50
DISCCART 483492.14 3756526.09 1.50
DISCCART 483415.54 3756590.36 1.50
DISCCART 483338.93 3756654.64 1.50
DISCCART 483262.33 3756718.92 1.50
DISCCART 483185.72 3756783.20 1.50
DISCCART 483109.12 3756847.48 1.50
DISCCART 483032.51 3756911.76 1.50
DISCCART 482955.91 3756976.04 1.50
DISCCART 482879.31 3757040.32 1.50
DISCCART 482802.70 3757104.59 1.50
DISCCART 482726.10 3757168.87 1.50
DISCCART 484831.39 3755470.32 1.50
DISCCART 484767.11 3755546.93 1.50
DISCCART 484702.84 3755623.53 1.50
DISCCART 484638.56 3755700.14 1.50
DISCCART 484574.28 3755776.74 1.50
DISCCART 484510.00 3755853.35 1.50
DISCCART 484445.72 3755929.95 1.50
DISCCART 484381.44 3756006.55 1.50
DISCCART 484317.16 3756083.16 1.50
DISCCART 484252.88 3756159.76 1.50
DISCCART 484188.61 3756236.37 1.50
DISCCART 484124.33 3756312.97 1.50
DISCCART 484060.05 3756389.58 1.50
DISCCART 483995.77 3756466.18 1.50
DISCCART 483931.49 3756542.79 1.50
DISCCART 483867.21 3756619.39 1.50
DISCCART 483802.93 3756695.99 1.50
DISCCART 483738.65 3756772.60 1.50
DISCCART 483674.38 3756849.20 1.50
DISCCART 483610.10 3756925.81 1.50
DISCCART 483545.82 3757002.41 1.50
DISCCART 483481.54 3757079.02 1.50
DISCCART 483417.26 3757155.62 1.50
DISCCART 483352.98 3757232.23 1.50
DISCCART 483288.70 3757308.83 1.50
DISCCART 483224.42 3757385.43 1.50
DISCCART 483160.15 3757462.04 1.50
DISCCART 483095.87 3757538.64 1.50
DISCCART 484874.23 3755500.32 1.50
DISCCART 484824.23 3755586.92 1.50
DISCCART 484774.23 3755673.52 1.50
DISCCART 484724.23 3755760.13 1.50
DISCCART 484674.23 3755846.73 1.50
DISCCART 484624.23 3755933.33 1.50
DISCCART 484574.23 3756019.93 1.50
DISCCART 484524.23 3756106.54 1.50
DISCCART 484474.23 3756193.14 1.50
DISCCART 484424.23 3756279.74 1.50
DISCCART 484374.23 3756366.34 1.50
DISCCART 484324.23 3756452.95 1.50
DISCCART 484274.23 3756539.55 1.50
DISCCART 484224.23 3756626.15 1.50
DISCCART 484174.23 3756712.75 1.50
DISCCART 484124.23 3756799.36 1.50
DISCCART 484074.23 3756885.96 1.50

DISCCART 484024.23 3756972.56 1.50
DISCCART 483974.23 3757059.16 1.50
DISCCART 483924.23 3757145.77 1.50
DISCCART 483874.23 3757232.37 1.50
DISCCART 483824.23 3757318.97 1.50
DISCCART 483774.23 3757405.57 1.50
DISCCART 483724.23 3757492.18 1.50
DISCCART 483674.23 3757578.78 1.50
DISCCART 483624.23 3757665.38 1.50
DISCCART 483574.23 3757751.98 1.50
DISCCART 483524.23 3757838.59 1.50
DISCCART 484921.62 3755522.42 1.50
DISCCART 484887.42 3755616.39 1.50
DISCCART 484853.22 3755710.36 1.50
DISCCART 484819.02 3755804.33 1.50
DISCCART 484784.82 3755898.29 1.50
DISCCART 484750.61 3755992.26 1.50
DISCCART 484716.41 3756086.23 1.50
DISCCART 484682.21 3756180.20 1.50
DISCCART 484648.01 3756274.17 1.50
DISCCART 484613.81 3756368.14 1.50
DISCCART 484579.60 3756462.11 1.50
DISCCART 484545.40 3756556.08 1.50
DISCCART 484511.20 3756650.05 1.50
DISCCART 484477.00 3756744.02 1.50
DISCCART 484442.80 3756837.99 1.50
DISCCART 484408.59 3756931.96 1.50
DISCCART 484374.39 3757025.93 1.50
DISCCART 484340.19 3757119.90 1.50
DISCCART 484305.99 3757213.86 1.50
DISCCART 484271.79 3757307.83 1.50
DISCCART 484237.58 3757401.80 1.50
DISCCART 484203.38 3757495.77 1.50
DISCCART 484169.18 3757589.74 1.50
DISCCART 484134.98 3757683.71 1.50
DISCCART 484100.78 3757777.68 1.50
DISCCART 484066.57 3757871.65 1.50
DISCCART 484032.37 3757965.62 1.50
DISCCART 483998.17 3758059.59 1.50
DISCCART 484972.14 3755535.95 1.50
DISCCART 484954.77 3755634.43 1.50
DISCCART 484937.41 3755732.91 1.50
DISCCART 484920.04 3755831.39 1.50
DISCCART 484902.68 3755929.88 1.50
DISCCART 484885.31 3756028.36 1.50
DISCCART 484867.95 3756126.84 1.50
DISCCART 484850.58 3756225.32 1.50
DISCCART 484833.22 3756323.80 1.50
DISCCART 484815.85 3756422.28 1.50
DISCCART 484798.49 3756520.76 1.50
DISCCART 484781.12 3756619.24 1.50
DISCCART 484763.76 3756717.72 1.50
DISCCART 484746.39 3756816.20 1.50
DISCCART 484729.03 3756914.68 1.50
DISCCART 484711.66 3757013.16 1.50
DISCCART 484694.30 3757111.64 1.50
DISCCART 484676.93 3757210.13 1.50
DISCCART 484659.57 3757308.61 1.50
DISCCART 484642.20 3757407.09 1.50
DISCCART 484624.84 3757505.57 1.50
DISCCART 484607.47 3757604.05 1.50
DISCCART 484590.11 3757702.53 1.50
DISCCART 484572.74 3757801.01 1.50
DISCCART 484555.38 3757899.49 1.50
DISCCART 484538.02 3757997.97 1.50
DISCCART 484520.65 3758096.45 1.50

```

DISCCART 484503.29 3758194.93 1.50
RE FINISHED
**
*****
** ISCS3 Meteorology Pathway
*****
**
ME STARTING
INPUTFIL U:\UcAir\METDAT~1\REDLANDS.ASC
ANEMHGHT 10 METERS
SURFDATA 54161 1981
UAIRDATA 99999 1981
ME FINISHED
**
*****
** ISCS3 Output Pathway
*****
**
OU STARTING
** Auto-Generated Plotfiles
PLOTFILE ANNUAL.ALL HRAMIT.ISVAN00GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

```

```

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07
**MODELOPTS:
CONC URBAN FLAT FLGPOL NOCALM NOCMPL
PAGE 1
*****
*** MODEL SETUP OPTIONS SUMMARY ***
-----
**Simple Terrain Model is Selected

**Model Is Setup For Calculation of Average CONcentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Not Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Assumes Receptors on FLAT Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes: 156 Source(s); 1 Source Group(s); and 985 Receptor(s)

**The Model Assumes A Pollutant Type of: DPM

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 1.4 MB of RAM.

**Input Runstream File: HRAMIT.INP
**Output Print File: HRAMIT.OUT

```

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 2
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	EMISSION RATE SCALAR (METERS)	VARY BY
L0001052	0	0.48800E-06	485514.0	3755433.5	0.0	4.00	12.43	1.86	HROFDY	
L0001053	0	0.48800E-06	485514.0	3755406.8	0.0	4.00	12.43	1.86	HROFDY	
L0001054	0	0.48800E-06	485513.9	3755380.0	0.0	4.00	12.43	1.86	HROFDY	
L0001055	0	0.48800E-06	485513.8	3755353.3	0.0	4.00	12.43	1.86	HROFDY	
L0001056	0	0.48800E-06	485513.8	3755326.5	0.0	4.00	12.43	1.86	HROFDY	
L0001057	0	0.48800E-06	485513.7	3755299.8	0.0	4.00	12.43	1.86	HROFDY	
L0001058	0	0.48800E-06	485513.6	3755273.0	0.0	4.00	12.43	1.86	HROFDY	
L0001059	0	0.48800E-06	485513.5	3755246.3	0.0	4.00	12.43	1.86	HROFDY	
L0001060	0	0.48800E-06	485513.4	3755219.6	0.0	4.00	12.43	1.86	HROFDY	
L0001061	0	0.48800E-06	485513.4	3755193.0	0.0	4.00	12.43	1.86	HROFDY	
L0001062	0	0.48800E-06	485513.3	3755166.3	0.0	4.00	12.43	1.86	HROFDY	
L0001063	0	0.48800E-06	485513.2	3755139.5	0.0	4.00	12.43	1.86	HROFDY	
L0001064	0	0.48800E-06	485513.2	3755112.8	0.0	4.00	12.43	1.86	HROFDY	
L0001065	0	0.48800E-06	485513.1	3755086.0	0.0	4.00	12.43	1.86	HROFDY	
L0001066	0	0.48800E-06	485513.0	3755059.3	0.0	4.00	12.43	1.86	HROFDY	
L0001067	0	0.48800E-06	485512.9	3755032.5	0.0	4.00	12.43	1.86	HROFDY	
L0001068	0	0.48800E-06	485494.2	3755025.5	0.0	4.00	11.94	1.86	HROFDY	
L0001069	0	0.48800E-06	485468.5	3755025.5	0.0	4.00	11.94	1.86	HROFDY	
L0001070	0	0.48800E-06	485442.9	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001071	0	0.48800E-06	485417.2	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001072	0	0.48800E-06	485391.5	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001073	0	0.48800E-06	485365.8	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001074	0	0.48800E-06	485340.2	3755025.8	0.0	4.00	11.94	1.86	HROFDY	
L0001075	0	0.48800E-06	485314.5	3755026.0	0.0	4.00	11.94	1.86	HROFDY	
L0001076	0	0.48800E-06	485288.8	3755026.0	0.0	4.00	11.94	1.86	HROFDY	
L0001077	0	0.49000E-06	485265.3	3755112.8	0.0	4.00	7.15	1.86	HROFDY	
L0001078	0	0.49000E-06	485249.9	3755113.0	0.0	4.00	7.15	1.86	HROFDY	
L0001079	0	0.49000E-06	485234.5	3755113.0	0.0	4.00	7.15	1.86	HROFDY	
L0001080	0	0.49000E-06	485219.2	3755113.0	0.0	4.00	7.15	1.86	HROFDY	
L0001081	0	0.49000E-06	485203.8	3755113.3	0.0	4.00	7.15	1.86	HROFDY	
L0001082	0	0.50800E-06	485281.9	3755043.8	0.0	4.00	7.53	1.86	HROFDY	
L0001083	0	0.50800E-06	485281.7	3755060.0	0.0	4.00	7.53	1.86	HROFDY	
L0001084	0	0.50800E-06	485281.4	3755076.3	0.0	4.00	7.53	1.86	HROFDY	
L0001085	0	0.50800E-06	485281.3	3755092.3	0.0	4.00	7.53	1.86	HROFDY	
L0001086	0	0.50800E-06	485281.0	3755108.5	0.0	4.00	7.53	1.86	HROFDY	
L0001087	0	0.59474E-06	485280.8	3755119.8	0.0	4.00	8.82	1.86	HROFDY	
L0001088	0	0.59474E-06	485280.0	3755138.8	0.0	4.00	8.82	1.86	HROFDY	
L0001089	0	0.59474E-06	485279.3	3755157.8	0.0	4.00	8.82	1.86	HROFDY	
L0001090	0	0.59474E-06	485278.4	3755176.5	0.0	4.00	8.82	1.86	HROFDY	
L0001091	0	0.59474E-06	485277.7	3755195.5	0.0	4.00	8.82	1.86	HROFDY	

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 3
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	EMISSION RATE SCALAR (METERS)	VARY BY
L0001092	0	0.59474E-06	485276.9	3755214.5	0.0	4.00	8.82	1.86	HROFDY	
L0001093	0	0.59474E-06	485276.1	3755233.5	0.0	4.00	8.82	1.86	HROFDY	
L0001094	0	0.59474E-06	485275.3	3755252.3	0.0	4.00	8.82	1.86	HROFDY	
L0001095	0	0.59474E-06	485274.5	3755271.3	0.0	4.00	8.82	1.86	HROFDY	
L0001096	0	0.59474E-06	485273.7	3755290.3	0.0	4.00	8.82	1.86	HROFDY	
L0001097	0	0.59474E-06	485272.9	3755309.3	0.0	4.00	8.82	1.86	HROFDY	
L0001098	0	0.59474E-06	485272.1	3755328.0	0.0	4.00	8.82	1.86	HROFDY	
L0001099	0	0.59474E-06	485271.3	3755347.0	0.0	4.00	8.82	1.86	HROFDY	
L0001100	0	0.59474E-06	485270.6	3755366.0	0.0	4.00	8.82	1.86	HROFDY	
L0001101	0	0.59474E-06	485262.3	3755374.5	0.0	4.00	6.41	1.86	HROFDY	
L0001102	0	0.59474E-06	485247.2	3755376.5	0.0	4.00	7.22	1.86	HROFDY	
L0001103	0	0.59474E-06	485231.7	3755376.3	0.0	4.00	7.22	1.86	HROFDY	
L0001104	0	0.59474E-06	485216.2	3755376.3	0.0	4.00	7.22	1.86	HROFDY	
L0001105	0	0.59474E-06	485200.7	3755376.0	0.0	4.00	7.22	1.86	HROFDY	
L0001106	0	0.48000E-06	483513.9	3755430.3	0.0	4.00	11.63	1.86	HROFDY	
L0001107	0	0.48000E-06	483515.1	3755405.3	0.0	4.00	11.63	1.86	HROFDY	
L0001108	0	0.48000E-06	483516.3	3755380.3	0.0	4.00	11.63	1.86	HROFDY	
L0001109	0	0.48000E-06	483517.5	3755355.3	0.0	4.00	11.63	1.86	HROFDY	
L0001110	0	0.48000E-06	483518.7	3755330.5	0.0	4.00	11.63	1.86	HROFDY	
L0001111	0	0.48000E-06	483519.9	3755305.5	0.0	4.00	11.63	1.86	HROFDY	
L0001112	0	0.48000E-06	483521.1	3755280.5	0.0	4.00	11.63	1.86	HROFDY	
L0001113	0	0.48000E-06	483522.3	3755255.5	0.0	4.00	11.63	1.86	HROFDY	
L0001114	0	0.48000E-06	483523.5	3755230.5	0.0	4.00	11.63	1.86	HROFDY	
L0001115	0	0.48000E-06	483544.2	3755223.5	0.0	4.00	12.74	1.86	HROFDY	
L0001116	0	0.48000E-06	483571.6	3755223.5	0.0	4.00	12.74	1.86	HROFDY	
L0001117	0	0.48000E-06	483599.0	3755223.3	0.0	4.00	12.74	1.86	HROFDY	
L0001118	0	0.48000E-06	483626.4	3755223.3	0.0	4.00	12.74	1.86	HROFDY	
L0001119	0	0.48000E-06	483653.8	3755223.3	0.0	4.00	12.74	1.86	HROFDY	
L0001120	0	0.48000E-06	483681.1	3755223.3	0.0	4.00	12.74	1.86	HROFDY	
L0001121	0	0.48000E-06	483708.5	3755223.0	0.0	4.00	12.74	1.86	HROFDY	
L0001122	0	0.48000E-06	483735.9	3755223.0	0.0	4.00	12.74	1.86	HROFDY	
L0001123	0	0.48000E-06	483763.3	3755223.0	0.0	4.00	12.74	1.86	HROFDY	
L0001124	0	0.48000E-06	483790.7	3755222.8	0.0	4.00	12.74	1.86	HROFDY	
L0001125	0	0.48000E-06	483818.0	3755222.8	0.0	4.00	12.74	1.86	HROFDY	
L0001126	0	0.48000E-06	483845.4	3755222.8	0.0	4.00	12.74	1.86	HROFDY	
L0001127	0	0.48000E-06	483872.8	3755222.8	0.0	4.00	12.74	1.86	HROFDY	
L0001128	0	0.48000E-06	483900.2	3755222.5	0.0	4.00	12.74	1.86	HROFDY	
L0001129	0	0.48000E-06	483927.6	3755222.5	0.0	4.00	12.74	1.86	HROFDY	
L0001130	0	0.48000E-06	483954.9	3755222.5	0.0	4.00	12.74	1.86	HROFDY	
L0001131	0	0.48000E-06	483982.3	3755222.5	0.0	4.00	12.74	1.86	HROFDY	

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 4
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. EMISSION RATE
SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) BY

L0001132	0	0.48000E-06	484009.7	3755222.3	0.0	4.00	12.74	1.86	HROFDY
L0001133	0	0.48000E-06	484037.1	3755222.3	0.0	4.00	12.74	1.86	HROFDY
L0001134	0	0.48000E-06	484064.5	3755222.3	0.0	4.00	12.74	1.86	HROFDY
L0001135	0	0.48000E-06	484091.9	3755222.3	0.0	4.00	12.74	1.86	HROFDY
L0001136	0	0.48000E-06	484119.3	3755222.0	0.0	4.00	12.74	1.86	HROFDY
L0001137	0	0.48000E-06	484146.6	3755222.0	0.0	4.00	12.74	1.86	HROFDY
L0001138	0	0.48000E-06	484172.9	3755216.8	0.0	4.00	12.55	1.86	HROFDY
L0001139	0	0.48000E-06	484199.0	3755209.8	0.0	4.00	12.55	1.86	HROFDY
L0001140	0	0.48000E-06	484225.1	3755202.8	0.0	4.00	12.55	1.86	HROFDY
L0001141	0	0.48000E-06	484251.1	3755195.8	0.0	4.00	12.55	1.86	HROFDY
L0001142	0	0.48000E-06	484277.2	3755188.8	0.0	4.00	12.55	1.86	HROFDY
L0001143	0	0.48000E-06	484296.1	3755176.3	0.0	4.00	10.81	1.86	HROFDY
L0001144	0	0.48000E-06	484313.3	3755160.5	0.0	4.00	10.81	1.86	HROFDY
L0001145	0	0.48000E-06	484330.6	3755145.0	0.0	4.00	10.81	1.86	HROFDY
L0001146	0	0.48000E-06	484347.9	3755129.5	0.0	4.00	10.81	1.86	HROFDY
L0001147	0	0.48000E-06	484365.2	3755114.0	0.0	4.00	10.81	1.86	HROFDY
L0001148	0	0.48000E-06	484386.2	3755100.8	0.0	4.00	11.58	1.86	HROFDY
L0001149	0	0.48000E-06	484408.2	3755089.3	0.0	4.00	11.58	1.86	HROFDY
L0001150	0	0.48000E-06	484430.1	3755077.5	0.0	4.00	11.58	1.86	HROFDY
L0001151	0	0.48000E-06	484452.1	3755065.8	0.0	4.00	11.58	1.86	HROFDY
L0001152	0	0.48000E-06	484474.1	3755054.0	0.0	4.00	11.58	1.86	HROFDY
L0001153	0	0.48000E-06	484496.0	3755042.3	0.0	4.00	11.58	1.86	HROFDY
L0001154	0	0.48000E-06	484517.0	3755036.0	0.0	4.00	10.25	1.86	HROFDY
L0001155	0	0.48000E-06	484538.6	3755031.8	0.0	4.00	10.25	1.86	HROFDY
L0001156	0	0.48000E-06	484560.2	3755027.3	0.0	4.00	10.25	1.86	HROFDY
L0001157	0	0.48000E-06	484581.8	3755023.0	0.0	4.00	10.25	1.86	HROFDY
L0001158	0	0.48000E-06	484605.9	3755021.3	0.0	4.00	11.29	1.86	HROFDY
L0001159	0	0.48000E-06	484630.2	3755021.3	0.0	4.00	11.29	1.86	HROFDY
L0001160	0	0.48000E-06	484654.4	3755021.0	0.0	4.00	11.29	1.86	HROFDY
L0001161	0	0.48000E-06	484678.7	3755020.8	0.0	4.00	11.29	1.86	HROFDY
L0001162	0	0.48000E-06	484703.0	3755020.5	0.0	4.00	11.29	1.86	HROFDY
L0001163	0	0.48000E-06	484727.3	3755020.3	0.0	4.00	11.29	1.86	HROFDY
L0001164	0	0.48000E-06	484751.5	3755020.0	0.0	4.00	11.29	1.86	HROFDY
L0001165	0	0.48000E-06	484775.8	3755021.0	0.0	4.00	11.31	1.86	HROFDY
L0001166	0	0.53667E-06	484781.4	3755040.5	0.0	4.00	8.84	1.86	HROFDY
L0001167	0	0.53667E-06	484781.2	3755059.5	0.0	4.00	8.84	1.86	HROFDY
L0001168	0	0.53667E-06	484780.9	3755078.5	0.0	4.00	8.84	1.86	HROFDY
L0001169	0	0.59444E-06	484780.2	3755088.0	0.0	4.00	8.78	1.86	HROFDY
L0001170	0	0.59444E-06	484780.0	3755106.8	0.0	4.00	8.78	1.86	HROFDY
L0001171	0	0.59444E-06	484779.8	3755125.8	0.0	4.00	8.78	1.86	HROFDY

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 5
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. EMISSION RATE
SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) BY

L0001172	0	0.59444E-06	484779.7	3755144.5	0.0	4.00	8.78	1.86	HROFDY
L0001173	0	0.59444E-06	484779.5	3755163.5	0.0	4.00	8.78	1.86	HROFDY
L0001174	0	0.59444E-06	484779.3	3755182.3	0.0	4.00	8.78	1.86	HROFDY
L0001175	0	0.59444E-06	484779.2	3755201.3	0.0	4.00	8.78	1.86	HROFDY
L0001176	0	0.59444E-06	484779.0	3755220.0	0.0	4.00	8.78	1.86	HROFDY
L0001177	0	0.59444E-06	484778.8	3755239.0	0.0	4.00	8.78	1.86	HROFDY
L0001178	0	0.59444E-06	484778.7	3755257.8	0.0	4.00	8.78	1.86	HROFDY
L0001179	0	0.59444E-06	484778.5	3755276.8	0.0	4.00	8.78	1.86	HROFDY
L0001180	0	0.59444E-06	484778.3	3755295.5	0.0	4.00	8.78	1.86	HROFDY
L0001181	0	0.59444E-06	484778.2	3755314.5	0.0	4.00	8.78	1.86	HROFDY
L0001182	0	0.59444E-06	484778.0	3755333.3	0.0	4.00	8.78	1.86	HROFDY
L0001183	0	0.59444E-06	484777.8	3755352.3	0.0	4.00	8.78	1.86	HROFDY
L0001184	0	0.59444E-06	484777.7	3755371.0	0.0	4.00	8.78	1.86	HROFDY
L0001185	0	0.59444E-06	484783.3	3755375.8	0.0	4.00	4.99	1.86	HROFDY
L0001186	0	0.59444E-06	484794.1	3755375.5	0.0	4.00	4.99	1.86	HROFDY
L0001187	0	0.48789E-06	485270.4	3755024.5	0.0	4.00	12.33	1.86	HROFDY
L0001188	0	0.48789E-06	485243.8	3755024.3	0.0	4.00	12.33	1.86	HROFDY
L0001189	0	0.48789E-06	485217.3	3755024.0	0.0	4.00	12.33	1.86	HROFDY
L0001190	0	0.48789E-06	485190.8	3755023.8	0.0	4.00	12.33	1.86	HROFDY
L0001191	0	0.48789E-06	485164.3	3755023.5	0.0	4.00	12.33	1.86	HROFDY
L0001192	0	0.48789E-06	485137.8	3755023.3	0.0	4.00	12.33	1.86	HROFDY
L0001193	0	0.48789E-06	485111.3	3755023.0	0.0	4.00	12.33	1.86	HROFDY
L0001194	0	0.48789E-06	485084.8	3755022.8	0.0	4.00	12.33	1.86	HROFDY
L0001195	0	0.48789E-06	485058.3	3755022.5	0.0	4.00	12.33	1.86	HROFDY
L0001196	0	0.48789E-06	485031.7	3755022.3	0.0	4.00	12.33	1.86	HROFDY
L0001197	0	0.48789E-06	485005.2	3755022.0	0.0	4.00	12.33	1.86	HROFDY
L0001198	0	0.48789E-06	484978.7	3755021.8	0.0	4.00	12.33	1.86	HROFDY
L0001199	0	0.48789E-06	484952.2	3755021.5	0.0	4.00	12.33	1.86	HROFDY
L0001200	0	0.48789E-06	484925.7	3755021.3	0.0	4.00	12.33	1.86	HROFDY
L0001201	0	0.48789E-06	484899.1	3755021.0	0.0	4.00	12.33	1.86	HROFDY
L0001202	0	0.48789E-06	484872.6	3755020.8	0.0	4.00	12.33	1.86	HROFDY
L0001203	0	0.48789E-06	484846.1	3755020.5	0.0	4.00	12.33	1.86	HROFDY
L0001204	0	0.48789E-06	484819.6	3755020.3	0.0	4.00	12.33	1.86	HROFDY
L0001205	0	0.48789E-06	484793.1	3755020.0	0.0	4.00	12.33	1.86	HROFDY

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc 10/08/09
 *** West Ridge HRA 10:20:07
 **MODELOPTS: PAGE 6
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** AREAPOLY SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISS. RATE (GRAMS/SEC /METER**2)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT OF VERTS. (METERS)	SZ	SCALAR VARY	INIT.	EMISSION RATE BY
NORTH	0	0.29500E-09	484851.9	3755334.0	0.0	4.00	11	1.86	HROFDY	
SOUTH	0	0.32290E-09	484832.9	3755147.5	0.0	4.00	10	1.86	HROFDY	

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc 10/08/09
 *** West Ridge HRA 10:20:07
 **MODELOPTS: PAGE 7
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056, L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068, L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, L0001080, L0001081, L0001082, L0001083, L0001084, L0001085, L0001086, L0001087, L0001088, L0001089, L0001090, L0001091, L0001092, L0001093, L0001094, L0001095, L0001096, L0001097, L0001098, L0001099, L0001100, L0001101, L0001102, L0001103, L0001104, L0001105, L0001106, L0001107, L0001108, L0001109, L0001110, L0001111, L0001112, L0001113, L0001114, L0001115, L0001116, L0001117, L0001118, L0001119, L0001120, L0001121, L0001122, L0001123, L0001124, L0001125, L0001126, L0001127, L0001128, L0001129, L0001130, L0001131, L0001132, L0001133, L0001134, L0001135, L0001136, L0001137, L0001138, L0001139, L0001140, L0001141, L0001142, L0001143, L0001144, L0001145, L0001146, L0001147, L0001148, L0001149, L0001150, L0001151, L0001152, L0001153, L0001154, L0001155, L0001156, L0001157, L0001158, L0001159, L0001160, L0001161, L0001162, L0001163, L0001164, L0001165, L0001166, L0001167, L0001168, L0001169, L0001170, L0001171, L0001172, L0001173, L0001174, L0001175, L0001176, L0001177, L0001178, L0001179, L0001180, L0001181, L0001182, L0001183, L0001184, L0001185, L0001186, L0001187, L0001188, L0001189, L0001190, L0001191, L0001192, L0001193, L0001194, L0001195, L0001196, L0001197, L0001198, L0001199, L0001200, L0001201, L0001202, L0001203, L0001204, L0001205,

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 8
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = NORTH ; SOURCE TYPE = AREAPOLY :

1 .8000E+01 2 .8000E+01 3 .4000E+01 4 .4000E+01 5 .1000E+02 6 .2100E+02
7 .2100E+02 8 .1700E+02 9 .1700E+02 10 .1700E+02 11 .1300E+02 12 .8000E+01
13 .8000E+01 14 .1300E+02 15 .1700E+02 16 .2100E+02 17 .2100E+02 18 .3100E+02
19 .4200E+02 20 .2100E+02 21 .2100E+02 22 .3800E+02 23 .3100E+02 24 .1700E+02

SOURCE ID = SOUTH ; SOURCE TYPE = AREAPOLY :

1 .8000E+01 2 .8000E+01 3 .4000E+01 4 .4000E+01 5 .1000E+02 6 .2100E+02
7 .2100E+02 8 .1700E+02 9 .1700E+02 10 .1700E+02 11 .1300E+02 12 .8000E+01
13 .8000E+01 14 .1300E+02 15 .1700E+02 16 .2100E+02 17 .2100E+02 18 .3100E+02
19 .4200E+02 20 .2100E+02 21 .2100E+02 22 .3800E+02 23 .3100E+02 24 .1700E+02

SOURCE ID = L0001052 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001053 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001054 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 9
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001055 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001056 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001057 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001058 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001059 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 10
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001060; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001061; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001062; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001063; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001064; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 11
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001065; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001066; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001067; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001068; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001069; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 12
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001070; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001071; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001072; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001073; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001074; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 13
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001075; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001076; SOURCE TYPE = VOLUME :
 1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
 7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
 13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
 19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001077; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001078; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001079; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCAST3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 14
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001080; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001081; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001082; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001083; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001084; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

*** ISCAST3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 15
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001085; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001086; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001087; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001088; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001089; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 16
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001090; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001091; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001092; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001093; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001094; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 17
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001095; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001096; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001097; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001098; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001099; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCAST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 18
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001100; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001101; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001102; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001103; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001104; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCAST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 19
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001105; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001106; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001107; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001108; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001109; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 20
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001110; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001111; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001112; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001113; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001114; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 21
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001115; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001116; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001117; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001118; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001119; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 22
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001120; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001121; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001122; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001123; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001124; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 23
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001125; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001126; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001127; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001128; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001129; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 24
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001130; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001131; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001132; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001133; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001134; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 25
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001135; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001136; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001137; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001138; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001139; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

-973-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 26
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001140; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001141; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001142; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001143; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001144; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 27
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001145; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001146; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001147; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001148; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001149; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 28
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001150; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001151; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001152; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001153; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001154; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 29
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001155; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001156; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001157; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001158; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001159; SOURCE TYPE = VOLUME :
1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

-975-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 30
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001160; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001161; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001162; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001163; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001164; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 31
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001165; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001166; SOURCE TYPE = VOLUME :

1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001167; SOURCE TYPE = VOLUME :

1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001168; SOURCE TYPE = VOLUME :

1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001169; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

**MODELOPTS: PAGE 32
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001170; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001171; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001172; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001173; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001174; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

**MODELOPTS: PAGE 33
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001175; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001176; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001177; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001178; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001179; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 34
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001180; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001181; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001182; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001183; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001184; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 35
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001185; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001186; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001187; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001188; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001189; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

**MODELOPTS: PAGE 36
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001190; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001191; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001192; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001193; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001194; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

**MODELOPTS: PAGE 37
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001195; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001196; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001197; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001198; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001199; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 38
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001200 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001201 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001202 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001203 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001204 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07
 **MODELOPTS: PAGE 39
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001205 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

**MODELOPTS: PAGE 40
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485024.2, 3755540.5, 0.0, 1.5);	(485024.2, 3755640.5, 0.0, 1.5);	XXXXXXXXXXXXXXXXXXXX
(485024.2, 3755740.5, 0.0, 1.5);	(485024.2, 3755840.5, 0.0, 1.5);	
(485024.2, 3755940.5, 0.0, 1.5);	(485024.2, 3756040.5, 0.0, 1.5);	
(485024.2, 3756140.5, 0.0, 1.5);	(485024.2, 3756240.5, 0.0, 1.5);	
(485024.2, 3756340.5, 0.0, 1.5);	(485024.2, 3756440.5, 0.0, 1.5);	
(485024.2, 3756540.5, 0.0, 1.5);	(485024.2, 3756640.5, 0.0, 1.5);	
(485024.2, 3756740.5, 0.0, 1.5);	(485024.2, 3756840.5, 0.0, 1.5);	
(485024.2, 3756940.5, 0.0, 1.5);	(485024.2, 3757040.5, 0.0, 1.5);	
(485024.2, 3757140.5, 0.0, 1.5);	(485024.2, 3757240.5, 0.0, 1.5);	
(485024.2, 3757340.5, 0.0, 1.5);	(485024.2, 3757440.5, 0.0, 1.5);	
(485024.2, 3757540.5, 0.0, 1.5);	(485024.2, 3757640.5, 0.0, 1.5);	
(485024.2, 3757740.5, 0.0, 1.5);	(485024.2, 3757840.5, 0.0, 1.5);	
(485024.2, 3757940.5, 0.0, 1.5);	(485024.2, 3758040.5, 0.0, 1.5);	
(485024.2, 3758140.5, 0.0, 1.5);	(485024.2, 3758240.5, 0.0, 1.5);	
(485076.3, 3755536.0, 0.0, 1.5);	(485093.7, 3755634.5, 0.0, 1.5);	
(485111.1, 3755733.0, 0.0, 1.5);	(485128.4, 3755831.5, 0.0, 1.5);	
(485145.8, 3755930.0, 0.0, 1.5);	(485163.2, 3756028.3, 0.0, 1.5);	
(485180.5, 3756126.8, 0.0, 1.5);	(485197.9, 3756225.3, 0.0, 1.5);	
(485215.3, 3756323.8, 0.0, 1.5);	(485232.6, 3756422.3, 0.0, 1.5);	
(485250.0, 3756520.8, 0.0, 1.5);	(485267.3, 3756619.3, 0.0, 1.5);	
(485284.7, 3756717.8, 0.0, 1.5);	(485302.1, 3756816.3, 0.0, 1.5);	
(485319.4, 3756914.8, 0.0, 1.5);	(485336.8, 3757013.3, 0.0, 1.5);	
(485354.2, 3757111.8, 0.0, 1.5);	(485371.5, 3757210.3, 0.0, 1.5);	
(485388.9, 3757308.5, 0.0, 1.5);	(485406.3, 3757407.0, 0.0, 1.5);	
(485423.6, 3757505.5, 0.0, 1.5);	(485441.0, 3757604.0, 0.0, 1.5);	
(485458.3, 3757702.5, 0.0, 1.5);	(485475.7, 3757801.0, 0.0, 1.5);	
(485493.1, 3757899.5, 0.0, 1.5);	(485510.4, 3757998.0, 0.0, 1.5);	
(485527.8, 3758096.5, 0.0, 1.5);	(485545.2, 3758195.0, 0.0, 1.5);	
(485562.5, 3758293.5, 0.0, 1.5);	(485580.0, 3758392.0, 0.0, 1.5);	
(485597.2, 3758490.5, 0.0, 1.5);	(485614.8, 3758589.0, 0.0, 1.5);	
(485631.9, 3758687.5, 0.0, 1.5);	(485649.6, 3758786.0, 0.0, 1.5);	
(485666.6, 3758884.5, 0.0, 1.5);	(485684.4, 3758983.0, 0.0, 1.5);	
(485701.3, 3759081.5, 0.0, 1.5);	(485719.2, 3759179.5, 0.0, 1.5);	
(485736.0, 3759278.5, 0.0, 1.5);	(485754.0, 3759376.0, 0.0, 1.5);	
(485770.7, 3759475.5, 0.0, 1.5);	(485788.8, 3759572.5, 0.0, 1.5);	
(485805.4, 3759672.5, 0.0, 1.5);	(485823.6, 3759769.0, 0.0, 1.5);	
(485840.1, 3759869.5, 0.0, 1.5);	(485858.4, 3759965.5, 0.0, 1.5);	
(485874.8, 3760066.5, 0.0, 1.5);	(485893.2, 3760162.0, 0.0, 1.5);	
(485909.5, 3760263.0, 0.0, 1.5);	(485928.0, 3760358.5, 0.0, 1.5);	
(485944.2, 3760460.0, 0.0, 1.5);	(485962.8, 3760555.0, 0.0, 1.5);	
(485978.9, 3760656.5, 0.0, 1.5);	(486000.0, 3760751.5, 0.0, 1.5);	
(486013.6, 3760853.0, 0.0, 1.5);	(486034.8, 3760948.0, 0.0, 1.5);	
(486048.3, 3761049.5, 0.0, 1.5);	(486069.6, 3761144.5, 0.0, 1.5);	
(486083.0, 3761246.0, 0.0, 1.5);	(486104.4, 3761341.0, 0.0, 1.5);	
(486117.7, 3761442.5, 0.0, 1.5);	(486139.2, 3761537.5, 0.0, 1.5);	
(486152.4, 3761639.0, 0.0, 1.5);	(486174.0, 3761734.0, 0.0, 1.5);	
(486187.1, 3761835.5, 0.0, 1.5);	(486208.8, 3761930.5, 0.0, 1.5);	
(486221.8, 3761932.0, 0.0, 1.5);	(486243.6, 3762027.0, 0.0, 1.5);	
(486256.5, 3762028.5, 0.0, 1.5);	(486278.4, 3762123.5, 0.0, 1.5);	
(486291.2, 3762125.0, 0.0, 1.5);	(486313.2, 3762220.0, 0.0, 1.5);	
(486325.9, 3762221.5, 0.0, 1.5);	(486348.0, 3762316.5, 0.0, 1.5);	
(486360.6, 3762318.0, 0.0, 1.5);	(486382.8, 3762413.0, 0.0, 1.5);	
(486395.3, 3762414.5, 0.0, 1.5);	(486417.6, 3762509.5, 0.0, 1.5);	
(486430.0, 3762511.0, 0.0, 1.5);	(486452.4, 3762606.0, 0.0, 1.5);	
(486464.7, 3762607.5, 0.0, 1.5);	(486487.2, 3762702.5, 0.0, 1.5);	
(486500.0, 3762704.0, 0.0, 1.5);	(486522.0, 3762800.0, 0.0, 1.5);	
(486534.7, 3762801.5, 0.0, 1.5);	(486556.8, 3762896.5, 0.0, 1.5);	
(486569.4, 3762903.0, 0.0, 1.5);	(486591.6, 3762993.0, 0.0, 1.5);	
(486604.1, 3763004.5, 0.0, 1.5);	(486626.4, 3763089.5, 0.0, 1.5);	
(486638.8, 3763106.0, 0.0, 1.5);	(486661.2, 3763186.0, 0.0, 1.5);	
(486673.5, 3763207.5, 0.0, 1.5);	(486696.0, 3763282.5, 0.0, 1.5);	
(486708.2, 3763309.0, 0.0, 1.5);	(486730.8, 3763379.0, 0.0, 1.5);	
(486742.9, 3763410.5, 0.0, 1.5);	(486765.6, 3763475.5, 0.0, 1.5);	
(486777.6, 3763512.0, 0.0, 1.5);	(486800.4, 3763572.0, 0.0, 1.5);	
(486812.3, 3763613.5, 0.0, 1.5);	(486835.2, 3763668.5, 0.0, 1.5);	
(486847.0, 3763715.0, 0.0, 1.5);	(486870.0, 3763765.0, 0.0, 1.5);	
(486881.7, 3763816.5, 0.0, 1.5);	(486904.8, 3763861.5, 0.0, 1.5);	
(486916.4, 3763918.0, 0.0, 1.5);	(486939.6, 3763958.0, 0.0, 1.5);	
(486951.1, 3764019.5, 0.0, 1.5);	(486974.4, 3764054.5, 0.0, 1.5);	
(486985.8, 3764121.0, 0.0, 1.5);	(487009.2, 3764151.0, 0.0, 1.5);	
(487020.5, 3764222.5, 0.0, 1.5);	(487044.0, 3764247.5, 0.0, 1.5);	
(487055.2, 3764324.0, 0.0, 1.5);	(487078.8, 3764344.0, 0.0, 1.5);	
(487089.9, 3764425.5, 0.0, 1.5);	(487113.6, 3764440.5, 0.0, 1.5);	
(487124.6, 3764527.0, 0.0, 1.5);	(487148.4, 3764537.0, 0.0, 1.5);	
(487159.3, 3764628.5, 0.0, 1.5);	(487183.2, 3764633.5, 0.0, 1.5);	
(487194.0, 3764730.0, 0.0, 1.5);	(487218.0, 3764730.0, 0.0, 1.5);	
(487228.7, 3764831.5, 0.0, 1.5);	(487252.8, 3764826.5, 0.0, 1.5);	
(487263.4, 3764933.0, 0.0, 1.5);	(487287.6, 3764923.0, 0.0, 1.5);	
(487298.1, 3765034.5, 0.0, 1.5);	(487322.4, 3765019.5, 0.0, 1.5);	
(487332.8, 3765136.0, 0.0, 1.5);	(487357.2, 3765116.0, 0.0, 1.5);	
(487367.5, 3765237.5, 0.0, 1.5);	(487392.0, 3765212.5, 0.0, 1.5);	
(487402.2, 3765339.0, 0.0, 1.5);	(487426.8, 3765309.0, 0.0, 1.5);	
(487436.9, 3765440.5, 0.0, 1.5);	(487461.6, 3765405.5, 0.0, 1.5);	
(487471.6, 3765542.0, 0.0, 1.5);	(487496.4, 3765502.0, 0.0, 1.5);	
(487506.3, 3765643.5, 0.0, 1.5);	(487531.2, 3765598.5, 0.0, 1.5);	
(487541.0, 3765745.0, 0.0, 1.5);	(487566.0, 3765695.0, 0.0, 1.5);	
(487575.7, 3765846.5, 0.0, 1.5);	(487600.8, 3765791.5, 0.0, 1.5);	
(487610.4, 3765948.0, 0.0, 1.5);	(487635.6, 3765888.0, 0.0, 1.5);	
(487645.1, 3766049.5, 0.0, 1.5);	(487670.4, 3765984.5, 0.0, 1.5);	
(487679.8, 3766151.0, 0.0, 1.5);	(487705.2, 3766081.0, 0.0, 1.5);	
(487714.5, 3766252.5, 0.0, 1.5);	(487740.0, 3766177.5, 0.0, 1.5);	
(487749.2, 3766354.0, 0.0, 1.5);	(487774.8, 3766274.0, 0.0, 1.5);	
(487783.9, 3766455.5, 0.0, 1.5);	(487809.6, 3766370.5, 0.0, 1.5);	
(487818.6, 3766557.0, 0.0, 1.5);	(487844.4, 3766467.0, 0.0, 1.5);	
(487853.3, 3766658.5, 0.0, 1.5);	(487879.2, 3766563.5, 0.0, 1.5);	
(487888.0, 3766760.0, 0.0, 1.5);	(487914.0, 3766660.0, 0.0, 1.5);	
(487922.7, 3766861.5, 0.0, 1.5);	(487948.8, 3766756.5, 0.0, 1.5);	
(487957.4, 3766963.0, 0.0, 1.5);	(487983.6, 3766853.0, 0.0, 1.5);	
(488000.0, 3767155.0, 0.0, 1.5);	(488018.4, 3766949.5, 0.0, 1.5);	
(488034.7, 3767256.5, 0.0, 1.5);	(488053.2, 3767046.0, 0.0, 1.5);	
(488069.4, 3767358.0, 0.0, 1.5);	(488088.0, 3767142.5, 0.0, 1.5);	
(488104.1, 3767459.5, 0.0, 1.5);	(488122.8, 3767239.0, 0.0, 1.5);	
(488138.8, 3767561.0, 0.0, 1.5);	(488157.6, 3767335.5, 0.0, 1.5);	
(488173.5, 3767662.5, 0.0, 1.5);	(488192.4, 3767432.0, 0.0, 1.5);	
(488208.2, 3767764.0, 0.0, 1.5);	(488227.2, 3767528.5, 0.0, 1.5);	
(488242.9, 3767865.5, 0.0, 1.5);	(488262.0, 3767625.0, 0.0, 1.5);	
(488277.6, 3767967.0, 0.0, 1.5);	(488296.8, 3767721.5, 0.0, 1.5);	
(488312.3, 3768068.5, 0.0, 1.5);	(488331.6, 3767818.0, 0.0, 1.5);	
(488347.0, 3768170.0, 0.0, 1.5);	(488366.4, 3767914.5, 0.0, 1.5);	
(488381.7, 3768271.5, 0.0, 1.5);	(488401.2, 3768011.0, 0.0, 1.5);	
(488416.4, 3768373.0, 0.0, 1.5);	(488436.0, 3768107.5, 0.0, 1.5);	
(488451.1, 3768474.5, 0.0, 1.5);	(488470.8, 3768204.0, 0.0, 1.5);	
(488485.8, 3768576.0, 0.0, 1.5);	(488505.6, 3768300.5, 0.0, 1.5);	
(488520.5, 3768677.5, 0.0, 1.5);	(488540.4, 3768397.0, 0.0, 1.5);	
(488555.2, 3768779.0, 0.0, 1.5);	(488575.2, 3768493.5, 0.0, 1.5);	
(488589.9, 3768880.5, 0.0, 1.5);	(488610.0, 3768590.0, 0.0, 1.5);	
(488624.6, 3768982.0, 0.0, 1.5);	(488644.8, 3768686.5, 0.0, 1.5);	
(488659.3, 3769083.5, 0.0, 1.5);	(488679.6, 3768783.0, 0.0, 1.5);	
(488694.0, 3769185.0, 0.0, 1.5);	(488714.4, 3768879.5, 0.0, 1.5);	
(488728.7, 3769286.5, 0.0, 1.5);	(488749.2, 3768976.0, 0.0, 1.5);	
(488763.4, 3769388.0, 0.0, 1.5);	(488784.0, 3769072.5, 0.0, 1.5);	
(488798.1, 3769489.5, 0.0, 1.5);	(488818.8, 3769169.0, 0.0, 1.5);	
(488832.8, 3769591.0, 0.0, 1.5);	(488853.6, 3769265.5, 0.0, 1.5);	
(488867.5, 3769692.5, 0.0, 1.5);	(488888.4, 3769362.0, 0.0, 1.5);	
(488902.2, 3769794.0, 0.0, 1.5);	(488923.2, 3769458.5, 0.0, 1.5);	
(488936.9, 3769895.5, 0.0, 1.5);	(488958.0, 3769555.0, 0.0, 1.5);	
(488971.6, 3769997.0, 0.0, 1.5);	(488992.8, 3769651.5, 0.0, 1.5);	
(489006.3, 3770098.5, 0.0, 1.5);	(489027.6, 3769748.0, 0.0, 1.5);	
(489041.0, 3770200.0, 0.0, 1.5);	(489062.4, 3769844.5, 0.0, 1.5);	
(489075.7, 3770301.5, 0.0, 1.5);	(489097.2, 3769941.0, 0.0, 1.5);	
(489110.4, 3770403.0, 0.0, 1.5);	(489132.0, 3770037.5, 0.0, 1.5);	
(489145.1, 3770504.5, 0.0, 1.5);	(489166.8, 3770134.0, 0.0, 1.5);	
(489179.8, 3770606.0, 0.0, 1.5);	(489201.6, 3770230.5, 0.0, 1.5);	
(489214.5, 3770707.5, 0.0, 1.5);	(489236.4, 3770327.0, 0.0, 1.5);	
(489249.2, 3770809.0, 0.0, 1.5);	(489271.2, 3770423.5, 0.0, 1.5);	
(489283.9, 3770910.5, 0.0, 1.5);	(489306.0, 3770520.0, 0.0, 1.5);	
(489318.6, 3771012.0, 0.0, 1.5);	(489340.8, 3770616.5, 0.0, 1.5);	
(489353.3, 3771113.5, 0.0, 1.5);	(489375.6, 3770713.0, 0.0, 1.5);	
(489388.0, 3771215.0, 0.0, 1.5);	(489410.4, 3770809.5, 0.0, 1.5);	
(489422.7, 3771316.5, 0.0, 1.5);	(489445.2, 3770906.0, 0.0, 1.5);	
(489457.4, 3771418.0, 0.0, 1.5);	(489480.0, 3771002.5, 0.0, 1.5);	
(489492.1, 3771519.5, 0.0, 1.5);	(489514.8, 3771099.0, 0.0, 1.5);	
(489526.8, 3771621.0, 0.0, 1.5);	(489549.6, 3771195.5, 0.0, 1.5);	
(489561.5, 3771722.5, 0.0, 1.5);	(489584.4, 3771292.0, 0.0, 1.5);	
(489596.2, 3771824.0, 0.0, 1.5);	(489619.2, 3771388.5, 0.0, 1.5);	
(489630.9, 3771925.5, 0.0, 1.5);	(489654.0, 3771485.0, 0.0, 1.5);	
(489665.6, 3772027.0, 0.0, 1.5);	(489688.8, 3771581.5, 0.0, 1.5);	
(489700.3, 3772128.5, 0.0, 1.5);	(489723.6, 3771678.0, 0.0, 1.5);	
(489735.0, 3772230.0, 0.0, 1.5);	(489758.4, 3771774.5, 0.0, 1.5);	
(489769.7, 3772331.5, 0.0, 1.5);	(489793.2, 3771871.0, 0.0, 1.5);	
(489804.4, 3772433.0, 0.0, 1.5);	(489828.0, 3771967.5, 0.0, 1.5);	
(489839.1, 3772534.5, 0.0, 1.5);	(489862.8, 3772064.0, 0.0, 1.5);	
(489873.8, 3772636.0, 0.0, 1.5);	(489897.6, 3772160.5, 0.0, 1.5);	
(489908.5, 3772737.5, 0.0, 1.5);	(489932.4, 3772257.0, 0.0, 1.5);	
(489943.2, 3772839.0, 0.0, 1.5);	(489967.2, 3772353.5, 0.0, 1.5);	
(490000.0, 3773031.0, 0.0, 1		

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 42
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(486583.1, 3756140.5, 0.0, 1.5); (486669.7, 3756190.5, 0.0, 1.5);
(486756.3, 3756240.5, 0.0, 1.5); (486842.9, 3756290.5, 0.0, 1.5);
(486929.5, 3756340.5, 0.0, 1.5); (487016.1, 3756390.5, 0.0, 1.5);
(487102.7, 3756440.5, 0.0, 1.5); (487189.3, 3756490.5, 0.0, 1.5);
(487275.9, 3756540.5, 0.0, 1.5); (487362.5, 3756590.5, 0.0, 1.5);
(487449.1, 3756640.5, 0.0, 1.5); (487535.7, 3756690.5, 0.0, 1.5);
(487622.3, 3756740.5, 0.0, 1.5); (485400.1, 3755377.3, 0.0, 1.5);
(485494.1, 3755411.5, 0.0, 1.5); (485268.9, 3755002.0, 0.0, 1.5);
(485682.0, 3755480.0, 0.0, 1.5); (485776.0, 375514.3, 0.0, 1.5);
(485869.9, 3755548.3, 0.0, 1.5); (485963.9, 3755582.5, 0.0, 1.5);
(486057.9, 3755616.8, 0.0, 1.5); (486151.9, 3755651.0, 0.0, 1.5);
(486245.8, 3755685.3, 0.0, 1.5); (486339.8, 3755719.3, 0.0, 1.5);
(486433.8, 3755753.5, 0.0, 1.5); (486527.8, 3755787.8, 0.0, 1.5);
(486621.7, 3755822.0, 0.0, 1.5); (486715.7, 3755856.3, 0.0, 1.5);
(486809.7, 3755890.3, 0.0, 1.5); (486903.6, 3755924.5, 0.0, 1.5);
(486997.6, 3755958.8, 0.0, 1.5); (487091.6, 3755993.0, 0.0, 1.5);
(487185.5, 3756027.3, 0.0, 1.5); (487279.5, 3756061.3, 0.0, 1.5);
(487373.5, 3756095.5, 0.0, 1.5); (487467.4, 3756129.8, 0.0, 1.5);
(487561.4, 3756164.0, 0.0, 1.5); (487655.4, 3756198.3, 0.0, 1.5);
(487749.3, 3756232.3, 0.0, 1.5); (487843.3, 3756266.5, 0.0, 1.5);
(485418.2, 3755310.0, 0.0, 1.5); (485615.1, 3755344.8, 0.0, 1.5);
(485713.6, 3755362.0, 0.0, 1.5); (485812.1, 3755379.5, 0.0, 1.5);
(485910.6, 3755396.8, 0.0, 1.5); (486009.0, 3755414.3, 0.0, 1.5);
(486107.5, 3755431.5, 0.0, 1.5); (486206.0, 3755449.0, 0.0, 1.5);
(486304.5, 3755466.3, 0.0, 1.5); (486403.0, 3755483.5, 0.0, 1.5);
(486501.4, 3755501.0, 0.0, 1.5); (486599.9, 3755518.3, 0.0, 1.5);
(486698.4, 3755535.8, 0.0, 1.5); (486796.9, 3755553.0, 0.0, 1.5);
(486895.4, 3755570.5, 0.0, 1.5); (486993.8, 3755587.8, 0.0, 1.5);
(487092.3, 3755605.3, 0.0, 1.5); (487190.8, 3755622.5, 0.0, 1.5);
(487289.3, 3755640.0, 0.0, 1.5); (487387.8, 3755657.3, 0.0, 1.5);
(487486.3, 3755674.8, 0.0, 1.5); (487584.7, 3755692.0, 0.0, 1.5);
(487683.2, 3755709.3, 0.0, 1.5); (487781.7, 3755726.8, 0.0, 1.5);
(487880.2, 3755744.0, 0.0, 1.5); (487978.7, 3755761.5, 0.0, 1.5);
(485324.2, 3755240.5, 0.0, 1.5); (485424.2, 3755240.5, 0.0, 1.5);
(485524.2, 3755240.5, 0.0, 1.5); (485624.2, 3755240.5, 0.0, 1.5);
(485724.2, 3755240.5, 0.0, 1.5); (485824.2, 3755240.5, 0.0, 1.5);
(485924.2, 3755240.5, 0.0, 1.5); (486024.2, 3755240.5, 0.0, 1.5);
(486124.2, 3755240.5, 0.0, 1.5); (486224.2, 3755240.5, 0.0, 1.5);
(486324.2, 3755240.5, 0.0, 1.5); (486424.2, 3755240.5, 0.0, 1.5);
(486524.2, 3755240.5, 0.0, 1.5); (486624.2, 3755240.5, 0.0, 1.5);
(486724.2, 3755240.5, 0.0, 1.5); (486824.2, 3755240.5, 0.0, 1.5);
(486924.2, 3755240.5, 0.0, 1.5); (487024.2, 3755240.5, 0.0, 1.5);
(487124.2, 3755240.5, 0.0, 1.5); (487224.2, 3755240.5, 0.0, 1.5);
(487324.2, 3755240.5, 0.0, 1.5); (487424.2, 3755240.5, 0.0, 1.5);
(487524.2, 3755240.5, 0.0, 1.5); (487624.2, 3755240.5, 0.0, 1.5);

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 43
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(487724.2, 3755240.5, 0.0, 1.5); (487824.2, 3755240.5, 0.0, 1.5);
(487924.2, 3755240.5, 0.0, 1.5); (488024.2, 3755240.5, 0.0, 1.5);
(485418.2, 3755171.0, 0.0, 1.5); (485615.1, 3755136.3, 0.0, 1.5);
(485713.6, 3755119.0, 0.0, 1.5); (485812.1, 3755101.5, 0.0, 1.5);
(485910.6, 3755084.3, 0.0, 1.5); (486009.0, 3755066.8, 0.0, 1.5);
(486107.5, 3755049.5, 0.0, 1.5); (486206.0, 3755032.3, 0.0, 1.5);
(486304.5, 3755014.8, 0.0, 1.5); (486403.0, 3754997.5, 0.0, 1.5);
(486501.4, 3754980.0, 0.0, 1.5); (486599.9, 3754962.8, 0.0, 1.5);
(486698.4, 3754945.3, 0.0, 1.5); (486796.9, 3754928.0, 0.0, 1.5);
(486895.4, 3754910.5, 0.0, 1.5); (486993.8, 3754893.3, 0.0, 1.5);
(487092.3, 3754875.8, 0.0, 1.5); (487190.8, 3754858.5, 0.0, 1.5);
(487289.3, 3754841.0, 0.0, 1.5); (487387.8, 3754823.8, 0.0, 1.5);
(487486.3, 3754806.5, 0.0, 1.5); (487584.7, 3754789.0, 0.0, 1.5);
(487683.2, 3754771.8, 0.0, 1.5); (487781.7, 3754754.3, 0.0, 1.5);
(487880.2, 3754737.0, 0.0, 1.5); (487978.7, 3754719.5, 0.0, 1.5);
(485400.1, 3755103.8, 0.0, 1.5); (485494.1, 3755069.5, 0.0, 1.5);
(485588.1, 3755035.3, 0.0, 1.5); (485682.0, 3755001.0, 0.0, 1.5);
(485776.0, 3754967.0, 0.0, 1.5); (485869.9, 3754932.8, 0.0, 1.5);
(485963.9, 3754898.5, 0.0, 1.5); (486057.9, 3754864.3, 0.0, 1.5);
(486151.9, 3754830.0, 0.0, 1.5); (486245.8, 3754796.0, 0.0, 1.5);
(486339.8, 3754761.8, 0.0, 1.5); (486433.8, 3754727.5, 0.0, 1.5);
(486527.8, 3754693.3, 0.0, 1.5); (486621.7, 3754659.0, 0.0, 1.5);
(486715.7, 3754624.8, 0.0, 1.5); (486809.7, 3754590.8, 0.0, 1.5);
(486903.6, 3754556.5, 0.0, 1.5); (486997.6, 3754522.3, 0.0, 1.5);
(487091.6, 3754488.0, 0.0, 1.5); (487185.5, 3754453.8, 0.0, 1.5);
(487279.5, 3754419.8, 0.0, 1.5); (487373.5, 3754385.5, 0.0, 1.5);
(487467.4, 3754351.3, 0.0, 1.5); (487561.4, 3754317.0, 0.0, 1.5);
(487655.4, 3754282.8, 0.0, 1.5); (487749.3, 3754248.8, 0.0, 1.5);
(487843.3, 3754214.5, 0.0, 1.5); (485457.3, 3754990.5, 0.0, 1.5);
(485543.8, 3754940.5, 0.0, 1.5); (485630.4, 3754890.5, 0.0, 1.5);
(485717.1, 3754840.5, 0.0, 1.5); (485803.7, 3754790.5, 0.0, 1.5);
(485890.3, 3754740.5, 0.0, 1.5); (485976.9, 3754690.5, 0.0, 1.5);
(486063.5, 3754640.5, 0.0, 1.5); (486150.1, 3754590.5, 0.0, 1.5);
(486236.7, 3754540.5, 0.0, 1.5); (486323.3, 3754490.5, 0.0, 1.5);
(486409.9, 3754440.5, 0.0, 1.5); (486496.5, 3754390.5, 0.0, 1.5);
(486583.1, 3754340.5, 0.0, 1.5); (486669.7, 3754290.5, 0.0, 1.5);
(486756.3, 3754240.5, 0.0, 1.5); (486842.9, 3754190.5, 0.0, 1.5);
(486929.5, 3754140.5, 0.0, 1.5); (487016.1, 3754090.5, 0.0, 1.5);
(487102.7, 3754040.5, 0.0, 1.5); (487189.3, 3753990.5, 0.0, 1.5);
(487275.9, 3753940.5, 0.0, 1.5); (487362.5, 3753890.5, 0.0, 1.5);
(487449.1, 3753840.5, 0.0, 1.5); (487535.7, 3753790.5, 0.0, 1.5);
(487622.3, 3753740.5, 0.0, 1.5); (485330.7, 3754983.5, 0.0, 1.5);
(485407.3, 3754919.0, 0.0, 1.5); (485483.9, 3754854.8, 0.0, 1.5);
(485560.5, 3754790.5, 0.0, 1.5); (485637.1, 3754726.3, 0.0, 1.5);
(485713.7, 3754662.0, 0.0, 1.5); (485790.3, 3754597.8, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 44
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485866.9, 3754533.5, 0.0, 1.5);	(485943.5, 3754469.3, 0.0, 1.5);
(486020.1, 3754405.0, 0.0, 1.5);	(486096.7, 3754340.5, 0.0, 1.5);
(486173.3, 3754276.3, 0.0, 1.5);	(486249.9, 3754212.0, 0.0, 1.5);
(486326.5, 3754147.8, 0.0, 1.5);	(486403.1, 3754083.5, 0.0, 1.5);
(486479.7, 3754019.3, 0.0, 1.5);	(486556.3, 3753955.0, 0.0, 1.5);
(486632.9, 3753890.8, 0.0, 1.5);	(486709.5, 3753826.5, 0.0, 1.5);
(486786.1, 3753762.0, 0.0, 1.5);	(486862.8, 3753697.8, 0.0, 1.5);
(486939.3, 3753633.5, 0.0, 1.5);	(487015.9, 3753569.3, 0.0, 1.5);
(487092.6, 3753505.0, 0.0, 1.5);	(487169.2, 3753440.8, 0.0, 1.5);
(487245.8, 3753376.5, 0.0, 1.5);	(487322.4, 3753312.3, 0.0, 1.5);
(485217.1, 3755010.8, 0.0, 1.5);	(485281.3, 3754934.0, 0.0, 1.5);
(485345.6, 3754857.5, 0.0, 1.5);	(485409.9, 3754781.0, 0.0, 1.5);
(485474.2, 3754704.3, 0.0, 1.5);	(485538.5, 3754627.8, 0.0, 1.5);
(485602.8, 3754551.0, 0.0, 1.5);	(485667.0, 3754474.5, 0.0, 1.5);
(485731.3, 3754397.8, 0.0, 1.5);	(485795.6, 3754321.3, 0.0, 1.5);
(485859.8, 3754244.8, 0.0, 1.5);	(485924.1, 3754168.0, 0.0, 1.5);
(485988.4, 3754091.5, 0.0, 1.5);	(486052.7, 3754014.8, 0.0, 1.5);
(486117.0, 3753938.3, 0.0, 1.5);	(486181.3, 3753861.8, 0.0, 1.5);
(486245.5, 3753785.0, 0.0, 1.5);	(486309.8, 3753708.5, 0.0, 1.5);
(486374.1, 3753631.8, 0.0, 1.5);	(486438.4, 3753555.3, 0.0, 1.5);
(486502.6, 3753478.5, 0.0, 1.5);	(486566.9, 3753402.0, 0.0, 1.5);
(486631.2, 3753325.5, 0.0, 1.5);	(486695.5, 3753248.8, 0.0, 1.5);
(486759.8, 3753172.3, 0.0, 1.5);	(486824.0, 3753095.5, 0.0, 1.5);
(486888.3, 3753019.0, 0.0, 1.5);	(486952.6, 3752942.5, 0.0, 1.5);
(485174.2, 3754980.8, 0.0, 1.5);	(485224.2, 3754894.0, 0.0, 1.5);
(485274.2, 3754807.5, 0.0, 1.5);	(485324.2, 3754721.0, 0.0, 1.5);
(485374.2, 3754634.3, 0.0, 1.5);	(485424.2, 3754547.8, 0.0, 1.5);
(485474.2, 3754461.0, 0.0, 1.5);	(485524.2, 3754374.5, 0.0, 1.5);
(485574.2, 3754288.0, 0.0, 1.5);	(485624.2, 3754201.3, 0.0, 1.5);
(485674.2, 3754114.8, 0.0, 1.5);	(485724.2, 3754028.0, 0.0, 1.5);
(485774.2, 3753941.5, 0.0, 1.5);	(485824.2, 3753854.8, 0.0, 1.5);
(485874.2, 3753768.3, 0.0, 1.5);	(485924.2, 3753681.8, 0.0, 1.5);
(485974.2, 3753595.0, 0.0, 1.5);	(486024.2, 3753508.5, 0.0, 1.5);
(486074.2, 3753421.8, 0.0, 1.5);	(486124.2, 3753335.3, 0.0, 1.5);
(486174.2, 3753248.8, 0.0, 1.5);	(486224.2, 3753162.0, 0.0, 1.5);
(486274.2, 3753075.5, 0.0, 1.5);	(486324.2, 3752988.8, 0.0, 1.5);
(486374.2, 3752902.3, 0.0, 1.5);	(486424.2, 3752815.8, 0.0, 1.5);
(486474.2, 3752729.0, 0.0, 1.5);	(486524.2, 3752642.5, 0.0, 1.5);
(485126.8, 3754958.5, 0.0, 1.5);	(485161.0, 3754864.8, 0.0, 1.5);
(485195.3, 3754770.8, 0.0, 1.5);	(485229.4, 3754676.8, 0.0, 1.5);
(485263.6, 3754582.8, 0.0, 1.5);	(485297.8, 3754488.8, 0.0, 1.5);
(485332.1, 3754394.8, 0.0, 1.5);	(485366.3, 3754300.8, 0.0, 1.5);
(485400.4, 3754206.8, 0.0, 1.5);	(485434.7, 3754113.0, 0.0, 1.5);
(485468.9, 3754019.0, 0.0, 1.5);	(485503.1, 3753925.0, 0.0, 1.5);
(485537.3, 3753831.0, 0.0, 1.5);	(485571.5, 3753737.0, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 45
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485605.7, 3753643.0, 0.0, 1.5);	(485639.9, 3753549.0, 0.0, 1.5);
(485674.1, 3753455.0, 0.0, 1.5);	(485708.3, 3753361.0, 0.0, 1.5);
(485742.5, 3753267.3, 0.0, 1.5);	(485776.7, 3753173.3, 0.0, 1.5);
(485810.9, 3753079.3, 0.0, 1.5);	(485845.1, 3752985.3, 0.0, 1.5);
(485879.3, 3752891.3, 0.0, 1.5);	(485913.5, 3752797.3, 0.0, 1.5);
(485947.7, 3752703.3, 0.0, 1.5);	(485981.9, 3752609.3, 0.0, 1.5);
(486016.1, 3752515.5, 0.0, 1.5);	(486050.3, 3752421.5, 0.0, 1.5);
(485076.3, 3754945.0, 0.0, 1.5);	(485093.7, 3754846.5, 0.0, 1.5);
(485111.1, 3754748.0, 0.0, 1.5);	(485128.4, 3754649.8, 0.0, 1.5);
(485145.8, 3754551.3, 0.0, 1.5);	(485163.2, 3754452.8, 0.0, 1.5);
(485180.5, 3754354.3, 0.0, 1.5);	(485197.9, 3754255.8, 0.0, 1.5);
(485215.3, 3754157.3, 0.0, 1.5);	(485232.6, 3754058.8, 0.0, 1.5);
(485250.0, 3753960.3, 0.0, 1.5);	(485267.3, 3753861.8, 0.0, 1.5);
(485284.7, 3753763.3, 0.0, 1.5);	(485302.1, 3753664.8, 0.0, 1.5);
(485319.4, 3753566.3, 0.0, 1.5);	(485336.8, 3753467.8, 0.0, 1.5);
(485354.2, 3753369.5, 0.0, 1.5);	(485371.5, 3753271.0, 0.0, 1.5);
(485388.9, 3753172.5, 0.0, 1.5);	(485406.3, 3753074.0, 0.0, 1.5);
(485423.6, 3752975.5, 0.0, 1.5);	(485441.0, 3752877.0, 0.0, 1.5);
(485458.3, 3752778.5, 0.0, 1.5);	(485475.7, 3752680.0, 0.0, 1.5);
(485493.1, 3752581.5, 0.0, 1.5);	(485510.4, 3752483.0, 0.0, 1.5);
(485527.8, 3752384.5, 0.0, 1.5);	(485545.2, 3752286.0, 0.0, 1.5);
(485562.4, 3752187.5, 0.0, 1.5);	(485580.0, 3752089.0, 0.0, 1.5);
(485597.1, 3751990.5, 0.0, 1.5);	(485614.8, 3751892.0, 0.0, 1.5);
(485631.8, 3751793.5, 0.0, 1.5);	(485649.6, 3751695.0, 0.0, 1.5);
(485666.5, 3751596.5, 0.0, 1.5);	(485684.4, 3751498.0, 0.0, 1.5);
(485701.2, 3751399.5, 0.0, 1.5);	(485719.2, 3751301.0, 0.0, 1.5);
(485735.9, 3751202.5, 0.0, 1.5);	(485754.0, 3751104.0, 0.0, 1.5);
(485770.6, 3751005.5, 0.0, 1.5);	(485788.8, 3750907.0, 0.0, 1.5);
(485805.3, 3750808.5, 0.0, 1.5);	(485823.6, 3750710.0, 0.0, 1.5);
(485840.0, 3750611.5, 0.0, 1.5);	(485858.4, 3750513.0, 0.0, 1.5);
(485874.7, 3750414.5, 0.0, 1.5);	(485900.0, 3750316.0, 0.0, 1.5);
(485909.4, 3750217.5, 0.0, 1.5);	(485941.6, 3750119.0, 0.0, 1.5);
(485944.1, 3750020.5, 0.0, 1.5);	(485983.2, 3749922.0, 0.0, 1.5);
(486000.0, 3749823.0, 0.0, 1.5);	(486024.8, 3749725.0, 0.0, 1.5);
(486055.9, 3749626.0, 0.0, 1.5);	(486066.4, 3749528.0, 0.0, 1.5);
(486111.8, 3749429.0, 0.0, 1.5);	(486108.0, 3749331.0, 0.0, 1.5);
(486167.7, 3749232.0, 0.0, 1.5);	(486149.6, 3749134.0, 0.0, 1.5);
(486223.6, 3749035.0, 0.0, 1.5);	(486191.2, 3748937.0, 0.0, 1.5);
(486279.5, 3748838.0, 0.0, 1.5);	(486232.8, 3748740.0, 0.0, 1.5);
(486335.4, 3748641.0, 0.0, 1.5);	(486274.4, 3748543.0, 0.0, 1.5);
(486391.3, 3748444.0, 0.0, 1.5);	(486316.0, 3748346.0, 0.0, 1.5);
(486447.2, 3748247.0, 0.0, 1.5);	(486357.6, 3748149.0, 0.0, 1.5);
(486503.1, 3748050.0, 0.0, 1.5);	(486399.2, 3747952.0, 0.0, 1.5);
(486559.0, 3747853.0, 0.0, 1.5);	(486440.8, 3747755.0, 0.0, 1.5);
(486614.9, 3747656.0, 0.0, 1.5);	(486482.4, 3747558.0, 0.0, 1.5);
(486670.8, 3747459.0, 0.0, 1.5);	(486524.0, 3747361.0, 0.0, 1.5);
(486726.7, 3747262.0, 0.0, 1.5);	(486565.6, 3747164.0, 0.0, 1.5);
(486782.6, 3747065.0, 0.0, 1.5);	(486607.2, 3746967.0, 0.0, 1.5);
(486838.5, 3746868.0, 0.0, 1.5);	(486648.8, 3746770.0, 0.0, 1.5);
(486894.4, 3746671.0, 0.0, 1.5);	(486690.4, 3746573.0, 0.0, 1.5);
(486950.3, 3746474.0, 0.0, 1.5);	(486732.0, 3746376.0, 0.0, 1.5);
(486999.9, 3746277.0, 0.0, 1.5);	(486773.6, 3746179.0, 0.0, 1.5);
(487055.8, 3746080.0, 0.0, 1.5);	(486815.2, 3745982.0, 0.0, 1.5);
(487111.7, 3745883.0, 0.0, 1.5);	(486856.8, 3745785.0, 0.0, 1.5);
(487167.6, 3745686.0, 0.0, 1.5);	(486898.4, 3745588.0, 0.0, 1.5);
(487223.5, 3745489.0, 0.0, 1.5);	(486940.0, 3745391.0, 0.0, 1.5);
(487279.4, 3745292.0, 0.0, 1.5);	(486981.6, 3745194.0, 0.0, 1.5);
(487335.3, 3745095.0, 0.0, 1.5);	(487023.2, 3744997.0, 0.0, 1.5);
(487391.2, 3744898.0, 0.0, 1.5);	(487064.8, 3744800.0, 0.0, 1.5);
(487447.1, 3744701.0, 0.0, 1.5);	(487106.4, 3744603.0, 0.0, 1.5);
(487503.0, 3744504.0, 0.0, 1.5);	(487148.0, 3744406.0, 0.0, 1.5);
(487558.9, 3744307.0, 0.0, 1.5);	(487189.6, 3744209.0, 0.0, 1.5);
(487614.8, 3744110.0, 0.0, 1.5);	(487231.2, 3744012.0, 0.0, 1.5);
(487670.7, 3743913.0, 0.0, 1.5);	(487272.8, 3743815.0, 0.0, 1.5);
(487726.6, 3743716.0, 0.0, 1.5);	(487314.4, 3743618.0, 0.0, 1.5);
(487782.5, 3743519.0, 0.0, 1.5);	(487356.0, 3743421.0, 0.0, 1.5);
(487838.4, 3743322.0, 0.0, 1.5);	(487397.6, 3743224.0, 0.0, 1.5);
(487894.3, 3743125.0, 0.0, 1.5);	(487439.2, 3743027.0, 0.0, 1.5);
(487950.2, 3742928.0, 0.0, 1.5);	(487480.8, 3742830.0, 0.0, 1.5);
(488006.1, 3742731.0, 0.0, 1.5);	(487522.4, 3742633.0, 0.0, 1.5);
(488062.0, 3742534.0, 0.0, 1.5);	(487564.0, 3742436.0, 0.0, 1.5);
(488117.9, 3742337.0, 0.0, 1.5);	(487605.6, 3742239.0, 0.0, 1.5);
(488173.8, 3742140.0, 0.0, 1.5);	(487647.2, 3742042.0, 0.0, 1.5);
(488229.7, 3741943.0, 0.0, 1.5);	(487688.8, 3741845.0, 0.0, 1.5);
(488285.6, 3741746.0, 0.0, 1.5);	(487730.4, 3741648.0, 0.0, 1.5);
(488341.5, 3741549.0, 0.0, 1.5);	(487772.0, 3741451.0, 0.0, 1.5);
(488397.4, 3741352.0, 0.0, 1.5);	(487813.6, 3741254.0, 0.0, 1.5);
(488453.3, 3741155.0, 0.0, 1.5);	(487855.2, 3741057.0, 0.0, 1.5);
(488509.2, 3740958.0, 0.0, 1.5);	(487896.8, 3740860.0, 0.0, 1.5);
(488565.1, 3740761.0, 0.0, 1.5);	(487938.4, 3740663.0, 0.0, 1.5);
(488621.0, 3740564.0, 0.0, 1.5);	(487980.0, 3740466.0, 0.0, 1.5);
(488676.9, 3740367.0, 0.0, 1.5);	(488021.6, 3740269.0, 0.0, 1.5);
(488732.8, 3740170.0, 0.0, 1.5);	(488063.2, 3740072.0, 0.0, 1.5);
(488788.7, 3739973.0, 0.0, 1.5);	(488104.8, 3739875.0, 0.0, 1.5);
(488844.6, 3739776.0, 0.0, 1.5);	(488146.4, 3739678.0, 0.0, 1.5);
(488900.5, 3739579.0, 0.0, 1.5);	(488188.0, 3739481.0, 0.0, 1.5);
(488956.4, 3739382.0, 0.0, 1.5);	(488229.6, 3739284.0, 0.0, 1.5);
(489012.3, 3739185.0, 0.0, 1.5);	(488271.2, 3739087.0, 0.0, 1.5);
(489068.2, 3738988.0, 0.0, 1.5);	(488312.8, 3738890.0, 0.0, 1.5);
(489124.1, 3738791.0, 0.0, 1.5);	(488354.4, 3738693.0, 0.0, 1.5);
(489180.0, 3738594.0, 0.0, 1.5);	(488396.0, 3738496.0, 0.0, 1.5);
(489235.9, 3738397.0, 0.0, 1.5);	(488437.6, 3738299.0, 0.0, 1.5);
(489291.8, 3738200.0, 0.0, 1.5);	(488479.2, 3738102.0, 0.0, 1.5);
(489347.7, 3738003.0, 0.0, 1.5);	(488520.8, 3737905.0, 0.0, 1.5);
(489403.6, 3737806.0, 0.0, 1.5);	(488562.4, 3737708.0, 0.0, 1.5);
(489459.5, 3737609.0, 0.0, 1.5);	(488604.0, 3737511.0, 0.0, 1.5);
(489515.4, 3737412.0, 0.0, 1.5);	(488645.6, 3737314.0, 0.0, 1.5);
(489571.3, 3737215.0, 0.0, 1.5);	(488687.2, 3737117.0, 0.0, 1.5);
(489627.2, 3737018.0, 0.0, 1.5);	(488728.8, 3736920.0, 0.0, 1.5);
(489683.1, 3736821.0, 0.0, 1.5);	(488770.4, 3736723.0, 0.0, 1.5);
(489739.0, 3736624.0, 0.0, 1.5);	(488812.0, 3736526.0, 0.0, 1.5);
(489794.9, 3736427.0, 0.0, 1.5);	(488853.6, 3736329.0, 0.0, 1.5);
(489850.8, 3736230.0, 0.0, 1.5);	(488895.2, 3736132.0, 0.0, 1.5);
(489906.7, 3736033.0, 0.0, 1.5);	(488936.8, 3735935.0, 0.0, 1.5);
(489962.6, 3735836.0, 0.0, 1.5);	(488978.4, 3735738.0, 0.0, 1.5);
(490018.5, 3735639.0, 0.0, 1.5);	(489020.0, 3735541.0, 0.0, 1.5);
(490074.4, 3735442.0, 0.0, 1.5);	(489061.6, 3735344.0, 0.0, 1.5);
(490130.3, 3735245.0, 0.0, 1.5);	(489103.2, 3735147.0, 0.0, 1.5);
(490186.2, 3735048.0, 0.0, 1.5);	(489144.8, 3734950.0, 0.0, 1.5);
(490242.1, 3734851.0, 0.0, 1.5);	(489186.4, 3734753.0, 0.0, 1.5);
(490298.0, 3734654.0, 0.0, 1.5);	(489228.0, 3734556.0, 0.0, 1.5);
(490353.9, 3734457.0, 0.0, 1.5);	(489269.6, 3734359.0, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

MODELPTS: * West Ridge HRA *** 10:20:07
PAGE 46
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(484624.8, 3752975.5, 0.0, 1.5);	(484607.5, 3752877.0, 0.0, 1.5);
(484590.1, 3752778.5, 0.0, 1.5);	(484572.8, 3752680.0, 0.0, 1.5);
(484555.4, 3752581.5, 0.0, 1.5);	(484538.0, 3752483.0, 0.0, 1.5);
(484520.7, 3752384.5, 0.0, 1.5);	(484503.3, 3752286.0, 0.0, 1.5);
(484492.1, 3754958.5, 0.0, 1.5);	(484887.4, 3754864.8, 0.0, 1.5);
(484853.2, 3754770.8, 0.0, 1.5);	(484819.0, 3754676.8, 0.0, 1.5);
(484784.8, 3754582.8, 0.0, 1.5);	(484750.6, 3754488.8, 0.0, 1.5);
(484716.4, 3754394.8, 0.0, 1.5);	(484682.2, 3754300.8, 0.0, 1.5);
(484648.0, 3754206.8, 0.0, 1.5);	(484613.8, 3754113.0, 0.0, 1.5);
(484579.6, 3754019.0, 0.0, 1.5);	(484545.4, 3753925.0, 0.0, 1.5);
(484511.2, 3753831.0, 0.0, 1.5);	(484477.0, 3753737.0, 0.0, 1.5);
(484442.8, 3753643.0, 0.0, 1.5);	(484408.6, 3753549.0, 0.0, 1.5);
(484374.4, 3753455.0, 0.0, 1.5);	(484340.2, 3753361.0, 0.0, 1.5);
(484306.0, 3753267.3, 0.0, 1.5);	(484271.8, 3753173.3, 0.0, 1.5);
(484237.6, 3753079.3, 0.0, 1.5);	(484203.4, 3752985.3, 0.0, 1.5);
(484169.2, 3752891.3, 0.0, 1.5);	(484135.0, 3752797.3, 0.0, 1.5);
(484100.8, 3752703.3, 0.0, 1.5);	(484066.6, 3752609.3, 0.0, 1.5);
(484032.4, 3752515.5, 0.0, 1.5);	(483998.2, 3752421.5, 0.0, 1.5);
(484874.2, 3754980.8, 0.0, 1.5);	(484824.2, 3754894.0, 0.0, 1.5);
(484774.2, 3754807.5, 0.0, 1.5);	(484724.2, 3754721.0, 0.0, 1.5);
(484674.2, 3754634.3, 0.0, 1.5);	(484624.2, 3754547.8, 0.0, 1.5);
(484574.2, 3754461.0, 0.0, 1.5);	(484524.2, 3754374.5, 0.0, 1.5);
(484474.2, 3754288.0, 0.0, 1.5);	(484424.2, 3754201.3, 0.0, 1.5);
(484374.2, 3754114.8, 0.0, 1.5);	(484324.2, 3754028.0, 0.0, 1.5);
(484274.2, 3753941.5, 0.0, 1.5);	(484224.2, 3753854.8, 0.0, 1.5);
(484174.2, 3753768.3, 0.0, 1.5);	(484124.2, 3753681.8, 0.0, 1.5);
(484074.2, 3753595.0, 0.0, 1.5);	(484024.2, 3753508.5, 0.0, 1.5);
(483974.2, 3753421.8, 0.0, 1.5);	(483924.2, 3753335.3, 0.0, 1.5);
(483874.2, 3753248.8, 0.0, 1.5);	(483824.2, 3753162.0, 0.0, 1.5);
(483774.2, 3753075.5, 0.0, 1.5);	(483724.2, 3752988.8, 0.0, 1.5);
(483674.2, 3752902.3, 0.0, 1.5);	(483624.2, 3752815.8, 0.0, 1.5);
(483574.2, 3752729.0, 0.0, 1.5);	(483524.2, 3752642.5, 0.0, 1.5);
(484767.1, 3754934.0, 0.0, 1.5);	(484702.8, 3754857.5, 0.0, 1.5);
(484638.6, 3754781.0, 0.0, 1.5);	(484574.3, 3754704.3, 0.0, 1.5);
(484510.0, 3754627.8, 0.0, 1.5);	(484445.7, 3754551.0, 0.0, 1.5);
(484381.4, 3754474.5, 0.0, 1.5);	(484317.2, 3754397.8, 0.0, 1.5);
(484252.9, 3754321.3, 0.0, 1.5);	(484188.6, 3754244.8, 0.0, 1.5);
(484124.3, 3754168.0, 0.0, 1.5);	(484060.1, 3754091.5, 0.0, 1.5);
(483995.8, 3754014.8, 0.0, 1.5);	(483931.5, 3753938.3, 0.0, 1.5);
(483867.2, 3753861.8, 0.0, 1.5);	(483802.9, 3753785.0, 0.0, 1.5);
(483738.7, 3753708.5, 0.0, 1.5);	(483674.4, 3753631.8, 0.0, 1.5);
(483610.1, 3753555.3, 0.0, 1.5);	(483545.8, 3753478.5, 0.0, 1.5);
(483481.5, 3753402.0, 0.0, 1.5);	(483417.3, 3753325.5, 0.0, 1.5);
(483353.0, 3753248.8, 0.0, 1.5);	(483288.7, 3753172.3, 0.0, 1.5);
(483224.4, 3753095.5, 0.0, 1.5);	(483160.2, 3753019.0, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

MODELPTS: * West Ridge HRA *** 10:20:07
PAGE 47
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(483095.9, 3752942.5, 0.0, 1.5);	(484717.8, 3754983.5, 0.0, 1.5);
(484641.2, 3754919.0, 0.0, 1.5);	(484564.6, 3754854.8, 0.0, 1.5);
(484488.0, 3754790.5, 0.0, 1.5);	(484411.4, 3754726.3, 0.0, 1.5);
(484334.8, 3754662.0, 0.0, 1.5);	(484258.2, 3754597.8, 0.0, 1.5);
(484181.6, 3754533.5, 0.0, 1.5);	(484105.0, 3754469.3, 0.0, 1.5);
(484028.4, 3754405.0, 0.0, 1.5);	(483951.8, 3754340.5, 0.0, 1.5);
(483875.2, 3754276.3, 0.0, 1.5);	(483798.6, 3754212.0, 0.0, 1.5);
(483721.9, 3754147.8, 0.0, 1.5);	(483645.3, 3754083.5, 0.0, 1.5);
(483568.8, 3754019.3, 0.0, 1.5);	(483492.1, 3753955.0, 0.0, 1.5);
(483415.5, 3753890.8, 0.0, 1.5);	(483338.9, 3753826.5, 0.0, 1.5);
(483262.3, 3753762.0, 0.0, 1.5);	(483185.7, 3753697.8, 0.0, 1.5);
(483109.1, 3753633.5, 0.0, 1.5);	(483032.5, 3753569.3, 0.0, 1.5);
(482955.9, 3753505.0, 0.0, 1.5);	(482879.3, 3753440.8, 0.0, 1.5);
(482802.7, 3753376.5, 0.0, 1.5);	(482726.1, 3753312.3, 0.0, 1.5);
(484677.8, 3755040.5, 0.0, 1.5);	(484591.2, 3754990.5, 0.0, 1.5);
(484504.6, 3754940.5, 0.0, 1.5);	(484418.0, 3754890.5, 0.0, 1.5);
(484331.4, 3754840.5, 0.0, 1.5);	(484244.8, 3754790.5, 0.0, 1.5);
(484158.2, 3754740.5, 0.0, 1.5);	(484071.6, 3754690.5, 0.0, 1.5);
(483985.0, 3754640.5, 0.0, 1.5);	(483898.4, 3754590.5, 0.0, 1.5);
(483811.8, 3754540.5, 0.0, 1.5);	(483725.2, 3754490.5, 0.0, 1.5);
(483638.6, 3754440.5, 0.0, 1.5);	(483552.0, 3754390.5, 0.0, 1.5);
(483465.4, 3754340.5, 0.0, 1.5);	(483378.8, 3754290.5, 0.0, 1.5);
(483292.2, 3754240.5, 0.0, 1.5);	(483205.6, 3754190.5, 0.0, 1.5);
(483119.0, 3754140.5, 0.0, 1.5);	(483032.4, 3754090.5, 0.0, 1.5);
(482945.8, 3754040.5, 0.0, 1.5);	(482859.2, 3753990.5, 0.0, 1.5);
(482772.6, 3753940.5, 0.0, 1.5);	(482686.0, 3753890.5, 0.0, 1.5);
(482599.4, 3753840.5, 0.0, 1.5);	(482512.8, 3753790.5, 0.0, 1.5);
(482426.2, 3753740.5, 0.0, 1.5);	(484648.3, 3755103.8, 0.0, 1.5);
(484554.4, 3755069.5, 0.0, 1.5);	(484460.4, 3755035.3, 0.0, 1.5);
(484366.4, 3755001.0, 0.0, 1.5);	(484272.5, 3754967.0, 0.0, 1.5);
(484178.5, 3754932.8, 0.0, 1.5);	(484084.5, 3754898.5, 0.0, 1.5);
(483990.6, 3754864.3, 0.0, 1.5);	(483896.6, 3754830.0, 0.0, 1.5);
(483802.6, 3754796.0, 0.0, 1.5);	(483708.7, 3754761.8, 0.0, 1.5);
(483614.7, 3754727.5, 0.0, 1.5);	(483520.7, 3754693.3, 0.0, 1.5);
(483426.8, 3754659.0, 0.0, 1.5);	(483332.8, 3754624.8, 0.0, 1.5);
(483238.8, 3754590.8, 0.0, 1.5);	(483144.8, 3754556.5, 0.0, 1.5);
(483050.9, 3754522.3, 0.0, 1.5);	(482956.9, 3754488.0, 0.0, 1.5);
(482862.9, 3754453.8, 0.0, 1.5);	(482769.0, 3754419.8, 0.0, 1.5);
(482675.0, 3754385.5, 0.0, 1.5);	(482581.0, 3754351.3, 0.0, 1.5);
(482487.1, 3754317.0, 0.0, 1.5);	(482393.1, 3754282.8, 0.0, 1.5);
(482299.1, 3754248.8, 0.0, 1.5);	(482205.2, 3754214.5, 0.0, 1.5);
(484630.3, 3755171.0, 0.0, 1.5);	(484531.8, 3755153.8, 0.0, 1.5);
(484433.3, 3755136.3, 0.0, 1.5);	(484334.9, 3755119.0, 0.0, 1.5);
(484236.4, 3755101.5, 0.0, 1.5);	(484137.9, 3755084.3, 0.0, 1.5);
(484039.4, 3755066.8, 0.0, 1.5);	(483940.9, 3755049.5, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 48
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(483842.5, 3755032.3, 0.0, 1.5);	(483744.0, 3755014.8, 0.0, 1.5);
(483645.5, 3754997.5, 0.0, 1.5);	(483547.0, 3754980.0, 0.0, 1.5);
(483448.5, 3754962.8, 0.0, 1.5);	(483350.1, 3754945.3, 0.0, 1.5);
(483251.6, 3754928.0, 0.0, 1.5);	(483153.1, 3754910.5, 0.0, 1.5);
(483054.6, 3754893.3, 0.0, 1.5);	(482956.1, 3754875.8, 0.0, 1.5);
(482857.7, 3754858.5, 0.0, 1.5);	(482759.2, 3754841.0, 0.0, 1.5);
(482660.7, 3754823.8, 0.0, 1.5);	(482562.2, 3754806.5, 0.0, 1.5);
(482463.7, 3754789.0, 0.0, 1.5);	(482365.3, 3754771.8, 0.0, 1.5);
(482266.8, 3754754.3, 0.0, 1.5);	(482168.3, 3754737.0, 0.0, 1.5);
(482069.8, 3754719.5, 0.0, 1.5);	(481971.3, 3754702.3, 0.0, 1.5);
(481872.8, 3754677.8, 0.0, 1.5);	(481774.3, 3754667.5, 0.0, 1.5);
(481675.8, 3754643.0, 0.0, 1.5);	(481577.3, 3754632.8, 0.0, 1.5);
(481478.8, 3754608.3, 0.0, 1.5);	(481380.3, 3754608.0, 0.0, 1.5);
(481281.8, 3754573.5, 0.0, 1.5);	(481183.3, 3754573.8, 0.0, 1.5);
(481084.8, 3754538.8, 0.0, 1.5);	(480986.3, 3754539.0, 0.0, 1.5);
(480887.8, 3754504.0, 0.0, 1.5);	(480789.3, 3754504.5, 0.0, 1.5);
(480690.8, 3754469.3, 0.0, 1.5);	(480592.3, 3754469.8, 0.0, 1.5);
(480493.8, 3754434.5, 0.0, 1.5);	(480395.3, 3754435.0, 0.0, 1.5);
(480296.8, 3754400.0, 0.0, 1.5);	(480198.3, 3754400.5, 0.0, 1.5);
(480100.0, 3754365.0, 0.0, 1.5);	(479999.3, 3754365.5, 0.0, 1.5);
(479903.0, 3754330.5, 0.0, 1.5);	(479802.3, 3754331.0, 0.0, 1.5);
(479706.0, 3754296.0, 0.0, 1.5);	(479605.3, 3754296.5, 0.0, 1.5);
(479509.0, 3754261.5, 0.0, 1.5);	(479408.3, 3754262.0, 0.0, 1.5);
(479312.0, 3754227.0, 0.0, 1.5);	(479211.3, 3754227.5, 0.0, 1.5);
(479115.0, 3754192.5, 0.0, 1.5);	(479014.3, 3754193.0, 0.0, 1.5);
(478918.0, 3754158.0, 0.0, 1.5);	(478817.3, 3754158.5, 0.0, 1.5);
(478721.0, 3754123.5, 0.0, 1.5);	(478620.3, 3754124.0, 0.0, 1.5);
(478524.0, 3754089.0, 0.0, 1.5);	(478423.3, 3754089.5, 0.0, 1.5);
(478327.0, 3754054.5, 0.0, 1.5);	(478226.3, 3754055.0, 0.0, 1.5);
(478130.0, 3754020.0, 0.0, 1.5);	(478029.3, 3754020.5, 0.0, 1.5);
(477933.0, 3753985.5, 0.0, 1.5);	(477832.3, 3753986.0, 0.0, 1.5);
(477736.0, 3753951.0, 0.0, 1.5);	(477635.3, 3753951.5, 0.0, 1.5);
(477539.0, 3753916.5, 0.0, 1.5);	(477438.3, 3753917.0, 0.0, 1.5);
(477342.0, 3753882.0, 0.0, 1.5);	(477241.3, 3753882.5, 0.0, 1.5);
(477145.0, 3753847.5, 0.0, 1.5);	(477044.3, 3753848.0, 0.0, 1.5);
(476948.0, 3753813.0, 0.0, 1.5);	(476847.3, 3753813.5, 0.0, 1.5);
(476751.0, 3753778.5, 0.0, 1.5);	(476650.3, 3753779.0, 0.0, 1.5);
(476554.0, 3753744.0, 0.0, 1.5);	(476453.3, 3753744.5, 0.0, 1.5);
(476357.0, 3753709.5, 0.0, 1.5);	(476256.3, 3753710.0, 0.0, 1.5);
(476160.0, 3753675.0, 0.0, 1.5);	(476059.3, 3753675.5, 0.0, 1.5);
(475963.0, 3753640.5, 0.0, 1.5);	(475862.3, 3753641.0, 0.0, 1.5);
(475766.0, 3753606.0, 0.0, 1.5);	(475665.3, 3753606.5, 0.0, 1.5);
(475569.0, 3753571.5, 0.0, 1.5);	(475468.3, 3753572.0, 0.0, 1.5);
(475372.0, 3753537.0, 0.0, 1.5);	(475271.3, 3753537.5, 0.0, 1.5);
(475175.0, 3753502.5, 0.0, 1.5);	(475074.3, 3753503.0, 0.0, 1.5);
(474978.0, 3753468.0, 0.0, 1.5);	(474877.3, 3753468.5, 0.0, 1.5);
(474781.0, 3753433.5, 0.0, 1.5);	(474680.3, 3753434.0, 0.0, 1.5);
(474584.0, 3753400.0, 0.0, 1.5);	(474483.3, 3753400.5, 0.0, 1.5);
(474387.0, 3753365.5, 0.0, 1.5);	(474286.3, 3753366.0, 0.0, 1.5);
(474190.0, 3753331.0, 0.0, 1.5);	(474089.3, 3753331.5, 0.0, 1.5);
(473993.0, 3753296.5, 0.0, 1.5);	(473892.3, 3753297.0, 0.0, 1.5);
(473796.0, 3753262.0, 0.0, 1.5);	(473695.3, 3753262.5, 0.0, 1.5);
(473599.0, 3753227.5, 0.0, 1.5);	(473498.3, 3753228.0, 0.0, 1.5);
(473402.0, 3753193.0, 0.0, 1.5);	(473301.3, 3753193.5, 0.0, 1.5);
(473205.0, 3753158.5, 0.0, 1.5);	(473104.3, 3753159.0, 0.0, 1.5);
(473008.0, 3753124.0, 0.0, 1.5);	(472907.3, 3753124.5, 0.0, 1.5);
(472811.0, 3753089.5, 0.0, 1.5);	(472710.3, 3753090.0, 0.0, 1.5);
(472614.0, 3753055.0, 0.0, 1.5);	(472513.3, 3753055.5, 0.0, 1.5);
(472417.0, 3753020.5, 0.0, 1.5);	(472316.3, 3753021.0, 0.0, 1.5);
(472220.0, 3752986.0, 0.0, 1.5);	(472119.3, 3752986.5, 0.0, 1.5);
(472023.0, 3752951.5, 0.0, 1.5);	(471922.3, 3752952.0, 0.0, 1.5);
(471826.0, 3752917.0, 0.0, 1.5);	(471725.3, 3752917.5, 0.0, 1.5);
(471629.0, 3752882.5, 0.0, 1.5);	(471528.3, 3752883.0, 0.0, 1.5);
(471432.0, 3752848.0, 0.0, 1.5);	(471331.3, 3752848.5, 0.0, 1.5);
(471235.0, 3752813.5, 0.0, 1.5);	(471134.3, 3752814.0, 0.0, 1.5);
(471038.0, 3752779.0, 0.0, 1.5);	(470937.3, 3752779.5, 0.0, 1.5);
(470841.0, 3752744.5, 0.0, 1.5);	(470740.3, 3752745.0, 0.0, 1.5);
(470644.0, 3752710.0, 0.0, 1.5);	(470543.3, 3752710.5, 0.0, 1.5);
(470447.0, 3752675.5, 0.0, 1.5);	(470346.3, 3752676.0, 0.0, 1.5);
(470250.0, 3752641.0, 0.0, 1.5);	(470149.3, 3752641.5, 0.0, 1.5);
(470053.0, 3752606.5, 0.0, 1.5);	(469952.3, 3752607.0, 0.0, 1.5);
(469856.0, 3752572.0, 0.0, 1.5);	(469755.3, 3752572.5, 0.0, 1.5);
(469659.0, 3752537.5, 0.0, 1.5);	(469558.3, 3752538.0, 0.0, 1.5);
(469462.0, 3752503.0, 0.0, 1.5);	(469361.3, 3752503.5, 0.0, 1.5);
(469265.0, 3752468.5, 0.0, 1.5);	(469164.3, 3752469.0, 0.0, 1.5);
(469068.0, 3752434.0, 0.0, 1.5);	(468967.3, 3752434.5, 0.0, 1.5);
(468871.0, 3752399.5, 0.0, 1.5);	(468770.3, 3752395.0, 0.0, 1.5);
(468674.0, 3752365.0, 0.0, 1.5);	(468573.3, 3752365.5, 0.0, 1.5);
(468477.0, 3752330.5, 0.0, 1.5);	(468376.3, 3752331.0, 0.0, 1.5);
(468280.0, 3752296.0, 0.0, 1.5);	(468179.3, 3752296.5, 0.0, 1.5);
(468083.0, 3752261.5, 0.0, 1.5);	(467982.3, 3752262.0, 0.0, 1.5);
(467886.0, 3752227.0, 0.0, 1.5);	(467785.3, 3752227.5, 0.0, 1.5);
(467689.0, 3752192.5, 0.0, 1.5);	(467588.3, 3752193.0, 0.0, 1.5);
(467492.0, 3752158.0, 0.0, 1.5);	(467391.3, 3752158.5, 0.0, 1.5);
(467295.0, 3752123.5, 0.0, 1.5);	(467194.3, 3752124.0, 0.0, 1.5);
(467098.0, 3752089.0, 0.0, 1.5);	(466997.3, 3752089.5, 0.0, 1.5);
(466901.0, 3752054.5, 0.0, 1.5);	(466800.3, 3752055.0, 0.0, 1.5);
(466704.0, 3752020.0, 0.0, 1.5);	(466603.3, 3752020.5, 0.0, 1.5);
(466507.0, 3751985.5, 0.0, 1.5);	(466406.3, 3751986.0, 0.0, 1.5);
(466310.0, 3751951.0, 0.0, 1.5);	(466209.3, 3751951.5, 0.0, 1.5);
(466113.0, 3751916.5, 0.0, 1.5);	(466012.3, 3751917.0, 0.0, 1.5);
(465916.0, 3751882.0, 0.0, 1.5);	(465815.3, 3751882.5, 0.0, 1.5);
(465719.0, 3751847.5, 0.0, 1.5);	(465618.3, 3751848.0, 0.0, 1.5);
(465522.0, 3751813.0, 0.0, 1.5);	(465421.3, 3751813.5, 0.0, 1.5);
(465325.0, 3751778.5, 0.0, 1.5);	(465224.3, 3751779.0, 0.0, 1.5);
(465128.0, 3751744.0, 0.0, 1.5);	(465027.3, 3751744.5, 0.0, 1.5);
(464931.0, 3751709.5, 0.0, 1.5);	(464830.3, 3751710.0, 0.0, 1.5);
(464734.0, 3751675.0, 0.0, 1.5);	(464633.3, 3751675.5, 0.0, 1.5);
(464537.0, 3751640.5, 0.0, 1.5);	(464436.3, 3751641.0, 0.0, 1.5);
(464340.0, 3751606.0, 0.0, 1.5);	(464239.3, 3751606.5, 0.0, 1.5);
(464143.0, 3751571.5, 0.0, 1.5);	(464042.3, 3751572.0, 0.0, 1.5);
(463946.0, 3751537.0, 0.0, 1.5);	(463845.3, 3751537.5, 0.0, 1.5);
(463749.0, 3751502.5, 0.0, 1.5);	(463648.3, 3751503.0, 0.0, 1.5);
(463552.0, 3751468.0, 0.0, 1.5);	(463451.3, 3751468.5, 0.0, 1.5);
(463355.0, 3751433.5, 0.0, 1.5);	(463254.3, 3751434.0, 0.0, 1.5);
(463158.0, 3751399.0, 0.0, 1.5);	(463057.3, 3751399.5, 0.0, 1.5);
(462961.0, 3751364.5, 0.0, 1.5);	(462860.3, 3751365.0, 0.0, 1.5);
(462764.0, 3751330.0, 0.0, 1.5);	(462663.3, 3751330.5, 0.0, 1.5);
(462567.0, 3751295.5, 0.0, 1.5);	(462466.3, 3751296.0, 0.0, 1.5);
(462370.0, 3751261.0, 0.0, 1.5);	(462269.3, 3751261.5, 0.0, 1.5);
(462173.0, 3751226.5, 0.0, 1.5);	(462072.3, 3751227.0, 0.0, 1.5);
(461976.0, 3751192.0, 0.0, 1.5);	(461875.3, 3751192.5, 0.0, 1.5);
(461779.0, 3751157.5, 0.0, 1.5);	(461678.3, 3751158.0, 0.0, 1.5);
(461582.0, 3751123.0, 0.0, 1.5);	(461481.3, 3751123.5, 0.0, 1.5);
(461385.0, 3751088.5, 0.0, 1.5);	(461284.3, 3751089.0, 0.0, 1.5);
(461188.0, 3751054.0, 0.0, 1.5);	(461087.3, 3751054.5, 0.0, 1.5);
(460991.0, 3751019.5, 0.0, 1.5);	(460890.3, 3751020.0, 0.0, 1.5);
(460794.0, 3750985.0, 0.0, 1.5);	(460693.3, 3750985.5, 0.0, 1.5);
(460597.0, 3750950.5, 0.0, 1.5);	(460496.3, 3750951.0, 0.0, 1.5);
(460400.0, 3750916.0, 0.0, 1.5);	(460299.3, 3750916.5, 0.0, 1.5);
(460203.0, 3750881.5, 0.0, 1.5);	(460102.3, 3750882.0, 0.0, 1.5);
(460006.0, 3750847.0, 0.0, 1.5);	(459905.3, 3750847.5, 0.0, 1.5);
(459809.0, 3750812.5, 0.0, 1.5);	(459708.3, 3750813.0, 0.0, 1.5);
(459612.0, 3750778.0, 0.0, 1.5);	(459511.3, 3750778.5, 0.0, 1.5);
(459415.0, 3750743.5, 0.0, 1.5);	(459314.3, 3750744.0, 0.0, 1.5);
(459218.0, 3750709.0, 0.0, 1.5);	(459117.3, 3750709.5, 0.0, 1.5);
(459021.0, 3750674.5, 0.0, 1.5);	(458920.3, 3750675.0, 0.0, 1.5);
(458824.0, 3750640.0, 0.0, 1.5);	(458723.3, 3750640.5, 0.0, 1.5);
(458627.0, 3750605.5, 0.0, 1.5);	(458526.3, 3750606.0, 0.0, 1.5);
(458430.0, 3750571.0, 0.0, 1.5);	(458329.3, 3750571.5, 0.0, 1.5);
(458233.0, 3750536.5, 0.0, 1.5);	(458132.3, 3750537.0, 0.0, 1.5);
(458036.0, 3750502.0, 0.0, 1.5);	(457935.3, 3750502.5, 0.0, 1.5);
(457839.0, 3750467.5, 0.0, 1.5);	(457738.3, 3750468.0, 0.0, 1.5);
(457642.0, 3750433.0, 0.0, 1.5);	(457541.3, 3750433.5, 0.0, 1.5);
(457445.0, 3750398.5, 0.0, 1.5);	(457344.3, 3750399.0, 0.0, 1.5);
(457248.0, 3750364.0, 0.0, 1.5);	(457147.3, 3750364.5, 0.0, 1.5);
(457051.0, 3750329.5, 0.0, 1.5);	(456950.3, 3750330.0, 0.0, 1.5);
(456854.0, 3750295.0, 0.0, 1.5);	(456753.3, 3750295.5, 0.0, 1.5);
(456657.0, 3750260.5, 0.0, 1.5);	(456556.3, 3750261.0, 0.0, 1.5);
(456460.0, 3750226.0, 0.0, 1.5);	(456359.3, 3750226.5, 0.0, 1.5);
(456263.0, 3750191.5, 0.0, 1.5);	(456162.3, 3750192.0, 0.0, 1.5);
(456066.0, 3750157.0, 0.0, 1.5);	(455965.3, 3750157.5, 0.0, 1.5);
(455869.0, 3750122.5, 0.0, 1.5);	(455768.3, 3750123.0, 0.0, 1.5);
(455672.0, 3750088.0, 0.0, 1.5);	(455571.3, 3750088.5, 0.0, 1.5);
(455475.0, 3750053.5, 0.0, 1.5);	(455374.3, 3750054.0, 0.0, 1.5);
(455278.0, 3750019.0, 0.0, 1.5);	(455177.3, 3750019.5, 0.0, 1.5);
(455081.0, 3749984.5, 0.0, 1.5);	(454980.3, 3749985.0, 0.0, 1.5);
(454884.0, 3749950.0, 0.0, 1.5);	(454783.3, 3749950.5, 0.0, 1.5);
(454687.0, 3749915.5, 0.0, 1.5);	(454586.3, 3749916.0, 0.0, 1.5);
(454490.0, 3749881.0, 0.0, 1.5);	(454389.3, 3749881.5, 0.0, 1.5);
(454293.0, 3749846.5, 0.0, 1.5);	(454192.3, 3749847.0, 0.0, 1.5);
(454096.0, 3749812.0, 0.0, 1.5);	(453995.3, 3749812.5, 0.0, 1.5);
(453899.0, 3749777.5, 0.0, 1.5);	(453798.3, 3749778.0, 0.0, 1.5);
(453702.0, 3749743.0, 0.0, 1.5);	(453601.3, 3749743.5, 0.0, 1.5);
(453505.0, 3749708.5, 0.0, 1.5);	(453404.3, 3749709.0, 0.0, 1.5);
(453308.0, 3749674.0, 0.0, 1.5);	(453207.3, 3749674.5, 0.0, 1.5);
(453111.0, 3749639.5, 0.0, 1.5	

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07

**MODELOPTS: URBAN FLAT FLGPOL NOCALM NOCMPL
PAGE 50

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(483095.9, 3757538.8, 0.0, 1.5);	(484874.2, 3755500.3, 0.0, 1.5);
(484824.2, 3755587.0, 0.0, 1.5);	(484774.2, 3755673.5, 0.0, 1.5);
(484724.2, 3755760.3, 0.0, 1.5);	(484674.2, 3755846.8, 0.0, 1.5);
(484624.2, 3755933.3, 0.0, 1.5);	(484574.2, 3756020.0, 0.0, 1.5);
(484524.2, 3756106.5, 0.0, 1.5);	(484474.2, 3756193.3, 0.0, 1.5);
(484424.2, 3756279.8, 0.0, 1.5);	(484374.2, 3756366.3, 0.0, 1.5);
(484324.2, 3756453.0, 0.0, 1.5);	(484274.2, 3756539.5, 0.0, 1.5);
(484224.2, 3756626.3, 0.0, 1.5);	(484174.2, 3756712.8, 0.0, 1.5);
(484124.2, 3756799.3, 0.0, 1.5);	(484074.2, 3756886.0, 0.0, 1.5);
(484024.2, 3756972.5, 0.0, 1.5);	(483974.2, 3757059.3, 0.0, 1.5);
(483924.2, 3757145.8, 0.0, 1.5);	(483874.2, 3757232.3, 0.0, 1.5);
(483824.2, 3757319.0, 0.0, 1.5);	(483774.2, 3757405.5, 0.0, 1.5);
(483724.2, 3757492.3, 0.0, 1.5);	(483674.2, 3757578.8, 0.0, 1.5);
(483624.2, 3757665.5, 0.0, 1.5);	(483574.2, 3757752.0, 0.0, 1.5);
(483524.2, 3757838.5, 0.0, 1.5);	(483474.2, 3757925.3, 0.0, 1.5);
(483424.2, 3758011.8, 0.0, 1.5);	(483374.2, 3758098.5, 0.0, 1.5);
(483324.2, 3758185.0, 0.0, 1.5);	(483274.2, 3758271.8, 0.0, 1.5);
(483224.2, 3758358.3, 0.0, 1.5);	(483174.2, 3758445.0, 0.0, 1.5);
(483124.2, 3758531.5, 0.0, 1.5);	(483074.2, 3758618.3, 0.0, 1.5);
(483024.2, 3758704.8, 0.0, 1.5);	(482974.2, 3758791.5, 0.0, 1.5);
(482924.2, 3758878.0, 0.0, 1.5);	(482874.2, 3758964.8, 0.0, 1.5);
(482824.2, 3759051.3, 0.0, 1.5);	(482774.2, 3759138.0, 0.0, 1.5);
(482724.2, 3759224.5, 0.0, 1.5);	(482674.2, 3759311.3, 0.0, 1.5);
(482624.2, 3759397.8, 0.0, 1.5);	(482574.2, 3759484.5, 0.0, 1.5);
(482524.2, 3759571.0, 0.0, 1.5);	(482474.2, 3759657.8, 0.0, 1.5);
(482424.2, 3759744.3, 0.0, 1.5);	(482374.2, 3759831.0, 0.0, 1.5);
(482324.2, 3759917.5, 0.0, 1.5);	(482274.2, 3760004.3, 0.0, 1.5);
(482224.2, 3760090.8, 0.0, 1.5);	(482174.2, 3760177.5, 0.0, 1.5);
(482124.2, 3760264.0, 0.0, 1.5);	(482074.2, 3760350.8, 0.0, 1.5);
(482024.2, 3760437.3, 0.0, 1.5);	(481974.2, 3760524.0, 0.0, 1.5);
(481924.2, 3760610.5, 0.0, 1.5);	(481874.2, 3760697.3, 0.0, 1.5);
(481824.2, 3760783.8, 0.0, 1.5);	(481774.2, 3760870.5, 0.0, 1.5);
(481724.2, 3760957.0, 0.0, 1.5);	(481674.2, 3761043.8, 0.0, 1.5);
(481624.2, 3761130.3, 0.0, 1.5);	(481574.2, 3761217.0, 0.0, 1.5);
(481524.2, 3761303.5, 0.0, 1.5);	(481474.2, 3761390.3, 0.0, 1.5);
(481424.2, 3761476.8, 0.0, 1.5);	(481374.2, 3761563.5, 0.0, 1.5);
(481324.2, 3761650.0, 0.0, 1.5);	(481274.2, 3761736.8, 0.0, 1.5);
(481224.2, 3761823.3, 0.0, 1.5);	(481174.2, 3761910.0, 0.0, 1.5);
(481124.2, 3761996.5, 0.0, 1.5);	(481074.2, 3762083.3, 0.0, 1.5);
(481024.2, 3762169.8, 0.0, 1.5);	(480974.2, 3762256.5, 0.0, 1.5);
(480924.2, 3762343.0, 0.0, 1.5);	(480874.2, 3762429.8, 0.0, 1.5);
(480824.2, 3762516.3, 0.0, 1.5);	(480774.2, 3762603.0, 0.0, 1.5);
(480724.2, 3762689.5, 0.0, 1.5);	(480674.2, 3762776.3, 0.0, 1.5);
(480624.2, 3762862.8, 0.0, 1.5);	(480574.2, 3762949.5, 0.0, 1.5);
(480524.2, 3763036.0, 0.0, 1.5);	(480474.2, 3763122.8, 0.0, 1.5);
(480424.2, 3763209.3, 0.0, 1.5);	(480374.2, 3763296.0, 0.0, 1.5);
(480324.2, 3763382.5, 0.0, 1.5);	(480274.2, 3763469.3, 0.0, 1.5);
(480224.2, 3763555.8, 0.0, 1.5);	(480174.2, 3763642.5, 0.0, 1.5);
(480124.2, 3763729.0, 0.0, 1.5);	(480074.2, 3763815.8, 0.0, 1.5);
(480024.2, 3763902.3, 0.0, 1.5);	(479974.2, 3763989.0, 0.0, 1.5);
(479924.2, 3764075.5, 0.0, 1.5);	(479874.2, 3764162.3, 0.0, 1.5);
(479824.2, 3764248.8, 0.0, 1.5);	(479774.2, 3764335.5, 0.0, 1.5);
(479724.2, 3764422.0, 0.0, 1.5);	(479674.2, 3764508.8, 0.0, 1.5);
(479624.2, 3764595.3, 0.0, 1.5);	(479574.2, 3764682.0, 0.0, 1.5);
(479524.2, 3764768.5, 0.0, 1.5);	(479474.2, 3764855.3, 0.0, 1.5);
(479424.2, 3764941.8, 0.0, 1.5);	(479374.2, 3765028.5, 0.0, 1.5);
(479324.2, 3765115.0, 0.0, 1.5);	(479274.2, 3765201.8, 0.0, 1.5);
(479224.2, 3765288.3, 0.0, 1.5);	(479174.2, 3765375.0, 0.0, 1.5);
(479124.2, 3765461.5, 0.0, 1.5);	(479074.2, 3765548.3, 0.0, 1.5);
(479024.2, 3765634.8, 0.0, 1.5);	(478974.2, 3765721.5, 0.0, 1.5);
(478924.2, 3765808.0, 0.0, 1.5);	(478874.2, 3765894.8, 0.0, 1.5);
(478824.2, 3765981.3, 0.0, 1.5);	(478774.2, 3766068.0, 0.0, 1.5);
(478724.2, 3766154.5, 0.0, 1.5);	(478674.2, 3766241.3, 0.0, 1.5);
(478624.2, 3766327.8, 0.0, 1.5);	(478574.2, 3766414.5, 0.0, 1.5);
(478524.2, 3766491.0, 0.0, 1.5);	(478474.2, 3766587.8, 0.0, 1.5);
(478424.2, 3766664.3, 0.0, 1.5);	(478374.2, 3766761.0, 0.0, 1.5);
(478324.2, 3766837.5, 0.0, 1.5);	(478274.2, 3766934.3, 0.0, 1.5);
(478224.2, 3767010.8, 0.0, 1.5);	(478174.2, 3767107.5, 0.0, 1.5);
(478124.2, 3767184.0, 0.0, 1.5);	(478074.2, 3767280.8, 0.0, 1.5);
(478024.2, 3767357.3, 0.0, 1.5);	(477974.2, 3767454.0, 0.0, 1.5);
(477924.2, 3767530.5, 0.0, 1.5);	(477874.2, 3767627.3, 0.0, 1.5);
(477824.2, 3767703.8, 0.0, 1.5);	(477774.2, 3767800.5, 0.0, 1.5);
(477724.2, 3767877.0, 0.0, 1.5);	(477674.2, 3767973.8, 0.0, 1.5);
(477624.2, 3768050.3, 0.0, 1.5);	(477574.2, 3768147.0, 0.0, 1.5);
(477524.2, 3768223.5, 0.0, 1.5);	(477474.2, 3768320.3, 0.0, 1.5);
(477424.2, 3768396.8, 0.0, 1.5);	(477374.2, 3768493.5, 0.0, 1.5);
(477324.2, 3768570.0, 0.0, 1.5);	(477274.2, 3768666.8, 0.0, 1.5);
(477224.2, 3768743.3, 0.0, 1.5);	(477174.2, 3768840.0, 0.0, 1.5);
(477124.2, 3768916.5, 0.0, 1.5);	(477074.2, 3769013.3, 0.0, 1.5);
(477024.2, 3769089.8, 0.0, 1.5);	(476974.2, 3769186.5, 0.0, 1.5);
(476924.2, 3769263.0, 0.0, 1.5);	(476874.2, 3769359.8, 0.0, 1.5);
(476824.2, 3769436.3, 0.0, 1.5);	(476774.2, 3769533.0, 0.0, 1.5);
(476724.2, 3769609.5, 0.0, 1.5);	(476674.2, 3769706.3, 0.0, 1.5);
(476624.2, 3769782.8, 0.0, 1.5);	(476574.2, 3769879.5, 0.0, 1.5);
(476524.2, 3769956.0, 0.0, 1.5);	(476474.2, 3770052.8, 0.0, 1.5);
(476424.2, 3770129.3, 0.0, 1.5);	(476374.2, 3770226.0, 0.0, 1.5);
(476324.2, 3770302.5, 0.0, 1.5);	(476274.2, 3770399.3, 0.0, 1.5);
(476224.2, 3770475.8, 0.0, 1.5);	(476174.2, 3770572.5, 0.0, 1.5);
(476124.2, 3770649.0, 0.0, 1.5);	(476074.2, 3770745.8, 0.0, 1.5);
(476024.2, 3770822.3, 0.0, 1.5);	(475974.2, 3770919.0, 0.0, 1.5);
(475924.2, 3770995.5, 0.0, 1.5);	(475874.2, 3771092.3, 0.0, 1.5);
(475824.2, 3771168.8, 0.0, 1.5);	(475774.2, 3771265.5, 0.0, 1.5);
(475724.2, 3771342.0, 0.0, 1.5);	(475674.2, 3771438.8, 0.0, 1.5);
(475624.2, 3771515.3, 0.0, 1.5);	(475574.2, 3771612.0, 0.0, 1.5);
(475524.2, 3771688.5, 0.0, 1.5);	(475474.2, 3771785.3, 0.0, 1.5);
(475424.2, 3771861.8, 0.0, 1.5);	(475374.2, 3771958.5, 0.0, 1.5);
(475324.2, 3772035.0, 0.0, 1.5);	(475274.2, 3772131.8, 0.0, 1.5);
(475224.2, 3772208.3, 0.0, 1.5);	(475174.2, 3772305.0, 0.0, 1.5);
(475124.2, 3772381.5, 0.0, 1.5);	(475074.2, 3772478.3, 0.0, 1.5);
(475024.2, 3772554.8, 0.0, 1.5);	(474974.2, 3772651.5, 0.0, 1.5);
(474924.2, 3772728.0, 0.0, 1.5);	(474874.2, 3772824.8, 0.0, 1.5);
(474824.2, 3772901.3, 0.0, 1.5);	(474774.2, 3772998.0, 0.0, 1.5);
(474724.2, 3773074.5, 0.0, 1.5);	(474674.2, 3773171.3, 0.0, 1.5);
(474624.2, 3773247.8, 0.0, 1.5);	(474574.2, 3773344.5, 0.0, 1.5);
(474524.2, 3773421.0, 0.0, 1.5);	(474474.2, 3773517.8, 0.0, 1.5);
(474424.2, 3773594.3, 0.0, 1.5);	(474374.2, 3773691.0, 0.0, 1.5);
(474324.2, 3773767.5, 0.0, 1.5);	(474274.2, 3773864.3, 0.0, 1.5);
(474224.2, 3773940.8, 0.0, 1.5);	(474174.2, 3774037.5, 0.0, 1.5);
(474124.2, 3774114.0, 0.0, 1.5);	(474074.2, 3774210.8, 0.0, 1.5);
(474024.2, 3774287.3, 0.0, 1.5);	(473974.2, 3774384.0, 0.0, 1.5);
(473924.2, 3774460.5, 0.0, 1.5);	(473874.2, 3774557.3, 0.0, 1.5);
(473824.2, 3774633.8, 0.0, 1.5);	(473774.2, 3774730.5, 0.0, 1.5);
(473724.2, 3774807.0, 0.0, 1.5);	(473674.2, 3774903.8, 0.0, 1.5);
(473624.2, 3774980.3, 0.0, 1.5);	(473574.2, 3775077.0, 0.0, 1.5);
(473524.2, 3775153.5, 0.0, 1.5);	(473474.2, 3775250.3, 0.0, 1.5);
(473424.2, 3775326.8, 0.0, 1.5);	(473374.2, 3775423.5, 0.0, 1.5);
(473324.2, 3775500.0, 0.0, 1.5);	(473274.2, 3775596.8, 0.0, 1.5);
(473224.2, 3775673.3, 0.0, 1.5);	(473174.2, 3775770.0, 0.0, 1.5);
(473124.2, 3775846.5, 0.0, 1.5);	(473074.2, 3775943.3, 0.0, 1.5);
(473024.2, 3776019.8, 0.0, 1.5);	(472974.2, 3776116.5, 0.0, 1.5);
(472924.2, 3776193.0, 0.0, 1.5);	(472874.2, 3776289.8, 0.0, 1.5);
(472824.2, 3776366.3, 0.0, 1.5);	(472774.2, 3776463.0, 0.0, 1.5);
(472724.2, 3776539.5, 0.0, 1.5);	(472674.2, 3776636.3, 0.0, 1.5);
(472624.2, 3776712.8, 0.0, 1.5);	(472574.2, 3776809.5, 0.0, 1.5);
(472524.2, 3776886.0, 0.0, 1.5);	(472474.2, 3776982.8, 0.0, 1.5);
(472424.2, 3777059.3, 0.0, 1.5);	(472374.2, 3777156.0, 0.0, 1.5);
(472324.2, 3777232.3, 0.0, 1.5);	(472274.2, 3777329.3, 0.0, 1.5);
(472224.2, 3777405.5, 0.0, 1.5);	(472174.2, 3777502.5, 0.0, 1.5);
(472124.2, 3777578.8, 0.0, 1.5);	(472074.2, 3777675.8, 0.0, 1.5);
(472024.2, 3777752.0, 0.0, 1.5);	(471974.2, 3777849.0, 0.0, 1.5);
(471924.2, 3777925.3, 0.0, 1.5);	(471874.2, 3778022.3, 0.0, 1.5);
(471824.2, 3778098.5, 0.0, 1.5);	(471774.2, 3778195.5, 0.0, 1.5);
(471724.2, 3778271.8, 0.0, 1.5);	(471674.2, 3778368.8, 0.0, 1.5);
(471624.2, 3778445.0, 0.0, 1.5);	(471574.2, 3778542.0, 0.0, 1.5);
(471524.2, 3778618.3, 0.0, 1.5);	(471474.2, 3778715.3, 0.0, 1.5);
(471424.2, 3778791.5, 0.0, 1.5);	(471374.2, 3778888.5, 0.0, 1.5);
(471324.2, 3778964.8, 0.0, 1.5);	(471274.2, 3779061.8, 0.0, 1.5);
(471224.2, 3779138.0, 0.0, 1.5);	(471174.2, 3779235.0, 0.0, 1.5);
(471124.2, 3779311.3, 0.0, 1.5);	(471074.2, 3779408.3, 0.0, 1.5);
(471024.2, 3779484.5, 0.0, 1.5);	(470974.2, 3779581.5, 0.0, 1.5);
(470924.2, 3779657.8, 0.0, 1.5);	(470874.2, 3779754.8, 0.0, 1.5);
(470824.2, 3779831.0, 0.0, 1.5);	(470774.2, 3779928.0, 0.0, 1.5);
(470724.2, 3780004.3, 0.0, 1.5);	(470674.2, 3780101.3, 0.0, 1.5);
(470624.2, 3780177.5, 0.0, 1.5);	(470574.2, 3780274.5, 0.0, 1.5);
(470524.2, 3780349.8, 0.0, 1.5);	(470474.2, 3780447.8, 0.0, 1.5);
(470424.2, 3780523.0, 0.0, 1.5);	(470374.2, 3780621.0, 0.0, 1.5);
(470324.2, 3780696.3, 0.0, 1.5);	(470274.2, 3780794.3, 0.0, 1.5);
(470224.2, 3780869.5, 0.0, 1.5);	(470174.2, 3780967.5, 0.0, 1.5);
(470124.2, 3781042.8, 0.0, 1.5);	(470074.2, 3781140.8, 0.0, 1.5);
(470024.2, 3781216.0, 0.0, 1.5);	(469974.2, 3781314.0, 0.0, 1.5);
(469924.2, 3781389.3, 0.0, 1.5);	(469874.2, 3781487.3, 0.0, 1.5);
(469824.2, 3781562.5, 0.0, 1.5);	(469774.2, 3781660.5, 0.0, 1.5);
(469724.2, 3781735.8, 0.0, 1.5);	(469674.2, 3781833.8, 0.0, 1.5);
(469624.2, 3781909.0, 0.0, 1.5);	(469574.2, 3782007.0, 0.0, 1.5);
(469524.2, 3782082.3, 0.0, 1.5);	(469474.2, 3782180.3, 0.0, 1.5);
(469424.2, 3782255.5, 0.0, 1.5);	(469374.2, 3782353.5, 0.0, 1.5);
(469324.2, 3782428.8, 0.0, 1.5);	

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 54
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485024.22	3755540.50	0.00729	485024.22	3755640.50	0.00395
485024.22	3755740.50	0.00224	485024.22	3755840.50	0.00139
485024.22	3755940.50	0.00101	485024.22	3756040.50	0.00079
485024.22	3756140.50	0.00064	485024.22	3756240.50	0.00053
485024.22	3756340.50	0.00046	485024.22	3756440.50	0.00040
485024.22	3756540.50	0.00035	485024.22	3756640.50	0.00031
485024.22	3756740.50	0.00028	485024.22	3756840.50	0.00025
485024.22	3756940.50	0.00023	485024.22	3757040.50	0.00021
485024.22	3757140.50	0.00019	485024.22	3757240.50	0.00018
485024.22	3757340.50	0.00017	485024.22	3757440.50	0.00015
485024.22	3757540.50	0.00014	485024.22	3757640.50	0.00013
485024.22	3757740.50	0.00013	485024.22	3757840.50	0.00012
485024.22	3757940.50	0.00011	485024.22	3758040.50	0.00010
485024.22	3758140.50	0.00010	485024.22	3758240.50	0.00009
485076.31	3755536.00	0.00698	485093.69	3755634.50	0.00380
485111.06	3755733.00	0.00203	485128.41	3755831.50	0.00130
485145.78	3755930.00	0.00095	485163.16	3756028.25	0.00073
485180.50	3756126.75	0.00060	485197.88	3756225.25	0.00050
485215.25	3756323.75	0.00043	485232.63	3756422.25	0.00038
485249.97	3756520.75	0.00033	485267.34	3756619.25	0.00029
485284.69	3756717.75	0.00026	485302.06	3756816.25	0.00023
485319.44	3756914.75	0.00021	485336.81	3757013.25	0.00019
485354.16	3757111.75	0.00018	485371.53	3757210.25	0.00016
485388.88	3757308.50	0.00015	485406.25	3757407.00	0.00014
485423.63	3757505.50	0.00013	485441.00	3757604.00	0.00012
485458.34	3757702.50	0.00011	485475.72	3757801.00	0.00010
485493.09	3757899.50	0.00010	485510.44	3757998.00	0.00009
485527.81	3758096.50	0.00009	485545.16	3758195.00	0.00008
485126.84	3755522.50	0.00725	485161.03	3755616.50	0.00395
485195.25	3755710.25	0.00200	485229.44	3755804.25	0.00128
485263.63	3755898.25	0.00094	485297.84	3755992.25	0.00074
485332.06	3756086.25	0.00061	485366.25	3756180.25	0.00051
485400.44	3756274.25	0.00043	485434.66	3756368.25	0.00036
485468.88	3756462.00	0.00031	485503.06	3756556.00	0.00027
485537.25	3756650.00	0.00024	485571.47	3756744.00	0.00021
485605.66	3756838.00	0.00019	485639.88	3756932.00	0.00018
485674.06	3757026.00	0.00016	485708.28	3757120.00	0.00015
485742.47	3757213.75	0.00014	485776.66	3757307.75	0.00013
485810.88	3757401.75	0.00012	485845.09	3757495.75	0.00011
485879.28	3757589.75	0.00010	485913.47	3757683.75	0.00010

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 55
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485947.69	3757777.75	0.00009	485981.88	3757871.75	0.00008
486016.09	3757965.50	0.00008	486050.28	3758059.50	0.00007
485174.22	3755500.25	0.00816	485224.22	3755587.00	0.00448
485274.22	3755673.50	0.00209	485324.22	3755760.25	0.00134
485374.22	3755846.75	0.00102	485424.22	3755933.25	0.00080
485474.22	3756020.00	0.00063	485524.22	3756106.50	0.00051
485574.22	3756193.25	0.00043	485624.22	3756279.75	0.00036
485674.22	3756366.25	0.00032	485724.22	3756453.00	0.00028
485774.22	3756539.50	0.00024	485824.22	3756626.25	0.00022
485874.22	3756712.75	0.00019	485924.22	3756799.25	0.00017
485974.22	3756886.00	0.00016	486024.22	3756972.50	0.00014
486074.22	3757059.25	0.00013	486124.22	3757145.75	0.00012
486174.22	3757232.25	0.00011	486224.22	3757319.00	0.00010
486274.22	3757405.50	0.00010	486324.22	3757492.25	0.00009
486374.22	3757578.75	0.00008	486424.22	3757665.50	0.00008
486474.22	3757752.00	0.00008	486524.22	3757838.50	0.00007
486574.22	3757925.25	0.00007	486624.22	3758011.75	0.00006
486674.22	3758098.50	0.00006	486724.22	3758184.75	0.00005
486774.22	3758281.75	0.00005	486824.22	3758357.75	0.00004
486874.22	3758465.00	0.00004	486924.22	3758530.75	0.00003
486974.22	3758648.25	0.00003	487024.22	3758703.75	0.00002
487074.22	3758831.50	0.00002	487124.22	3758876.75	0.00001
487174.22	3759014.75	0.00001	487224.22	3759050.00	0.00000
487274.22	3759198.00	0.00000	487324.22	3759223.25	0.00000
487374.22	3759381.25	0.00000	487424.22	3759396.50	0.00000
487474.22	3759564.50	0.00000	487524.22	3759569.75	0.00000
487574.22	3759747.75	0.00000	487624.22	3759743.00	0.00000
487674.22	3759931.00	0.00000	487724.22	3759916.25	0.00000
487774.22	3760114.25	0.00000	487824.22	3760089.50	0.00000
487874.22	3760297.50	0.00000	487924.22	3760262.75	0.00000
487974.22	3760480.75	0.00000	488024.22	3760436.00	0.00000
488074.22	3760664.00	0.00000	488124.22	3760609.25	0.00000
488174.22	3760847.25	0.00000	488224.22	3760782.50	0.00000
488274.22	3761030.50	0.00000	488324.22	3760955.75	0.00000
488374.22	3761213.75	0.00000	488424.22	3761129.00	0.00000
488474.22	3761397.00	0.00000	488524.22	3761302.25	0.00000
488574.22	3761580.25	0.00000	488624.22	3761475.50	0.00000
488674.22	3761763.50	0.00000	488724.22	3761648.75	0.00000
488774.22	3761946.75	0.00000	488824.22	3761822.00	0.00000
488874.22	3762130.00	0.00000	488924.22	3761995.25	0.00000
488974.22	3762313.25	0.00000	489024.22	3762168.50	0.00000
489074.22	3762496.50	0.00000	489124.22	3762341.75	0.00000
489174.22	3762679.75	0.00000	489224.22	3762515.00	0.00000
489274.22	3762863.00	0.00000	489324.22	3762688.25	0.00000
489374.22	3763046.25	0.00000	489424.22	3762861.50	0.00000
489474.22	3763229.50	0.00000	489524.22	3763034.75	0.00000
489574.22	3763412.75	0.00000	489624.22	3763208.00	0.00000
489674.22	3763596.00	0.00000	489724.22	3763381.25	0.00000
489774.22	3763779.25	0.00000	489824.22	3763554.50	0.00000
489874.22	3763962.50	0.00000	489924.22	3763727.75	0.00000
489974.22	3764145.75	0.00000	490024.22	3763901.00	0.00000

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 56
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486862.75	3756783.25	0.00014	486939.34	3756847.50	0.00014
487015.94	3756911.75	0.00013	487092.56	3756976.00	0.00012
487169.16	3757040.25	0.00011	487245.75	3757104.50	0.00011
487322.38	3757168.75	0.00010	485457.25	3755490.50	0.00761
485543.84	3755540.50	0.00282	485630.44	3755590.50	0.00174
485717.06	3755640.50	0.00126	485803.66	3755690.50	0.00098
485890.25	3755740.50	0.00079	485976.88	3755790.50	0.00066
486063.47	3755840.50	0.00056	486150.06	3755890.50	0.00048
486236.66	3755940.50	0.00042	486323.28	3755990.50	0.00037
486409.88	3756040.50	0.00033	486496.47	3756090.50	0.00029
486583.09	3756140.50	0.00027	486669.69	3756190.50	0.00024
486756.28	3756240.50	0.00022	486842.88	3756290.50	0.00020
486929.50	3756340.50	0.00019	487016.09	3756390.50	0.00018
487102.69	3756440.50	0.00016	487189.28	3756490.50	0.00015
487275.91	3756540.50	0.00014	487362.50	3756590.50	0.00014
487449.09	3756640.50	0.00013	487535.69	3756690.50	0.00012
487622.31	3756740.50	0.00011	485400.13	3755377.25	0.01904
485494.09	3755411.50	0.01310	485268.91	3755002.00	0.01988
485682.00	3755480.00	0.00294	485775.97	3755514.25	0.00192
485869.94	3755548.25	0.00141	485963.91	3755582.50	0.00110
486057.88	3755616.75	0.00088	486151.88	3755651.00	0.00073
486245.84	3755685.25	0.00062	486339.81	3755719.25	0.00053
486433.78	3755753.50	0.00047	486527.75	3755787.75	0.00041
486621.72	3755822.00	0.00037	486715.69	3755856.25	0.00033
486809.66	3755890.25	0.00030	486903.63	3755924.50	0.00027
486997.59	3755958.75	0.00025	487091.56	3755993.00	0.00023
487185.53	3756027.25	0.00021	487279.50	3756061.25	0.00020
487373.47	3756095.50	0.00019	487467.44	3756129.75	0.00017
487561.41	3756164.00	0.00016	487655.38	3756198.25	0.00015
487749.34	3756232.25	0.00014	487843.31	3756266.50	0.00014
485418.16	3755330.00	0.02251	485615.13	3755344.75	0.01039
485713.59	3755362.00	0.00520	485812.09	3755379.50	0.00318
485910.56	3755396.75	0.00224	486009.03	3755414.25	0.00170
486107.53	3755431.50	0.00136	486206.00	3755449.00	0.00113
486304.47	3755466.25	0.00096	486402.97	3755483.50	0.00083
486501.44	3755501.00	0.00072	486599.91	3755518.25	0.00064
486698.41	3755535.75	0.00058	486796.88	3755553.00	0.00052
486895.38	3755570.50	0.00048	486993.84	3755587.75	0.00044
487092.34	3755605.25	0.00040	487190.81	3755622.50	0.00037
487289.28	3755640.00	0.00035	487387.78	3755657.25	0.00033

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 57
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487486.25	3755674.75	0.00031	487584.72	3755692.00	0.00029
487683.22	3755709.25	0.00027	487781.69	3755726.75	0.00026
487880.16	3755744.00	0.00024	487978.66	3755761.50	0.00023
485324.22	3755240.50	0.02221	485424.22	3755240.50	0.02376
485524.22	3755240.50	0.00985	485624.22	3755240.50	0.01113
485724.22	3755240.50	0.00663	485824.22	3755240.50	0.00452
485924.22	3755240.50	0.00331	486024.22	3755240.50	0.00256
486124.22	3755240.50	0.00206	486224.22	3755240.50	0.00170
486324.22	3755240.50	0.00145	486424.22	3755240.50	0.00125
486524.22	3755240.50	0.00109	486624.22	3755240.50	0.00097
486724.22	3755240.50	0.00086	486824.22	3755240.50	0.00078
486924.22	3755240.50	0.00070	487024.22	3755240.50	0.00064
487124.22	3755240.50	0.00059	487224.22	3755240.50	0.00054
487324.22	3755240.50	0.00050	487424.22	3755240.50	0.00047
487524.22	3755240.50	0.00043	487624.22	3755240.50	0.00041
487724.22	3755240.50	0.00038	487824.22	3755240.50	0.00036
487924.22	3755240.50	0.00034	488024.22	3755240.50	0.00032
485418.16	3755171.00	0.02424	485615.13	3755136.25	0.01270
485713.59	3755119.00	0.00773	485812.09	3755101.50	0.00549
485910.56	3755084.25	0.00415	486009.03	3755066.75	0.00326
486107.53	3755049.50	0.00263	486206.00	3755032.25	0.00218
486304.47	3755014.75	0.00183	486402.97	3754997.50	0.00157
486501.44	3754980.00	0.00137	486599.91	3754962.75	0.00120
486698.41	3754945.25	0.00107	486796.88	3754928.00	0.00096
486895.38	3754910.50	0.00087	486993.84	3754893.25	0.00079
487092.34	3754875.75	0.00073	487190.81	3754858.50	0.00067
487289.28	3754841.00	0.00062	487387.78	3754823.75	0.00058
487486.25	3754806.50	0.00054	487584.72	3754789.00	0.00051
487683.22	3754771.75	0.00047	487781.69	3754754.25	0.00045
487880.16	3754737.00	0.00042	487978.66	3754719.50	0.00040
485400.13	3755103.75	0.02842	485494.09	3755069.50	0.01853
485588.06	3755035.25	0.01682	485682.00	3755001.00	0.00859
485775.97	3754967.00	0.00568	485869.94	3754932.75	0.00420
485963.91	3754898.50	0.00330	486057.88	3754864.25	0.00269
486151.88	3754830.00	0.00226	486245.84	3754796.00	0.00194
486339.81	3754761.75	0.00168	486433.78	3754727.50	0.00148
486527.75	3754693.25	0.00132	486621.72	3754659.00	0.00118
486715.69	3754624.75	0.00107	486809.66	3754590.75	0.00097
486903.63	3754556.50	0.00089	486997.59	3754522.25	0.00082
487091.56	3754488.00	0.00075	487185.53	3754453.75	0.00070

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 58
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487279.50	3754419.75	0.00065	487373.47	3754385.50	0.00061
487467.44	3754351.25	0.00057	487561.41	3754317.00	0.00053
487655.38	3754282.75	0.00050	487749.34	3754248.75	0.00047
487843.31	3754214.50	0.00045	485457.25	3754990.50	0.01990
485543.84	3754940.50	0.00876	485630.44	3754890.50	0.00549
485717.06	3754840.50	0.00390	485803.66	3754790.50	0.00298
485890.25	3754740.50	0.00239	485976.88	3754690.50	0.00197
486063.47	3754640.50	0.00167	486150.06	3754590.50	0.00144
486236.66	3754540.50	0.00126	486323.28	3754490.50	0.00111
486409.88	3754440.50	0.00100	486496.47	3754390.50	0.00090
486583.09	3754340.50	0.00082	486669.69	3754290.50	0.00075
486756.28	3754240.50	0.00069	486842.88	3754190.50	0.00063
486929.50	3754140.50	0.00059	487016.09	3754090.50	0.00055
487102.69	3754040.50	0.00051	487189.28	3753990.50	0.00048
487275.91	3753940.50	0.00045	487362.50	3753890.50	0.00043
487449.09	3753840.50	0.00041	487535.69	3753790.50	0.00038
487622.31	3753740.50	0.00037	485330.66	3754983.50	0.01563
485407.25	3754919.00	0.00603	485483.88	3754854.75	0.00368
485560.47	3754790.50	0.00262	485637.06	3754726.25	0.00201
485713.66	3754662.00	0.00160	485790.28	3754597.75	0.00131
485866.88	3754533.50	0.00109	485943.47	3754469.25	0.00093
486020.09	3754405.00	0.00080	486096.69	3754340.50	0.00070
486173.31	3754276.25	0.00062	486249.91	3754212.00	0.00055
486326.50	3754147.75	0.00049	486403.13	3754083.50	0.00045
486479.72	3754019.25	0.00041	486556.31	3753955.00	0.00037
486632.91	3753890.75	0.00034	486709.53	3753826.50	0.00031
486786.13	3753762.00	0.00029	486862.75	3753697.75	0.00027
486939.34	3753633.50	0.00025	487015.94	3753569.25	0.00023
487092.56	3753505.00	0.00022	487169.16	3753440.75	0.00020
487245.75	3753376.50	0.00019	487322.38	3753312.25	0.00018
485217.06	3755010.75	0.02275	485281.34	3754934.00	0.00622
485345.63	3754857.50	0.00325	485409.91	3754781.00	0.00213
485474.19	3754704.25	0.00152	485538.47	3754627.75	0.00116
485602.75	3754551.00	0.00092	485667.03	3754474.50	0.00076
485731.31	3754397.75	0.00063	485795.59	3754321.25	0.00053
485859.84	3754244.75	0.00046	485924.13	3754168.00	0.00040
485988.41	3754091.50	0.00035	486052.69	3754014.75	0.00031
486116.97	3753938.25	0.00028	486181.25	3753861.75	0.00025
486245.53	3753785.00	0.00023	486309.81	3753708.50	0.00021
486374.09	3753631.75	0.00019	486438.38	3753555.25	0.00017

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 59
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486502.63	3753478.50	0.00016	486566.91	3753402.00	0.00015
486631.19	3753325.50	0.00014	486695.47	3753248.75	0.00013
486759.75	3753172.25	0.00012	486824.03	3753095.50	0.00011
486888.31	3753019.00	0.00011	486952.59	3752942.50	0.00010
485174.22	3754980.75	0.01214	485224.22	3754894.00	0.00420
485274.22	3754807.50	0.00224	485324.22	3754721.00	0.00143
485374.22	3754634.25	0.00101	485424.22	3754547.75	0.00076
485474.22	3754461.00	0.00059	485524.22	3754374.50	0.00047
485574.22	3754288.00	0.00039	485624.22	3754201.25	0.00033
485674.22	3754114.75	0.00028	485724.22	3754028.00	0.00024
485774.22	3753941.50	0.00021	485824.22	3753854.75	0.00019
485874.22	3753768.25	0.00016	485924.22	3753681.75	0.00015
485974.22	3753595.00	0.00013	486024.22	3753508.50	0.00012
486074.22	3753421.75	0.00011	486124.22	3753335.25	0.00010
486174.22	3753248.75	0.00009	486224.22	3753162.00	0.00008
486274.22	3753075.50	0.00008	486324.22	3752988.75	0.00007
486374.22	3752902.25	0.00007	486424.22	3752815.75	0.00006
486474.22	3752729.00	0.00006	486524.22	3752642.50	0.00006
485126.84	3754958.50	0.00837	485161.03	3754864.75	0.00324
485195.25	3754770.75	0.00172	485229.44	3754676.75	0.00106
485263.63	3754582.75	0.00073	485297.84	3754488.75	0.00053
485332.06	3754394.75	0.00041	485366.25	3754300.75	0.00032
485400.44	3754206.75	0.00026	485434.66	3754113.00	0.00021
485468.88	3754019.00	0.00018	485503.06	3753925.00	0.00015
485537.25	3753831.00	0.00013	485571.47	3753737.00	0.00011
485605.66	3753643.00	0.00010	485639.88	3753549.00	0.00009
485674.06	3753455.00	0.00008	485708.28	3753361.00	0.00007
485742.47	3753267.25	0.00007	485776.66	3753173.25	0.00006
485810.88	3753079.25	0.00006	485845.09	3752985.25	0.00005
485879.28	3752891.25	0.00005	485913.47	3752797.25	0.00005
485947.69	3752703.25	0.00004	485981.88	3752609.25	0.00004
486016.09	3752515.50	0.00004	486050.28	3752421.50	0.00004
485076.31	3754945.00	0.00689	485093.69	3754846.50	0.00272
485111.06	3754748.00	0.00142	485128.41	3754649.75	0.00086
485145.78	3754551.25	0.00057	485163.16	3754452.75	0.00041
485180.50	3754354.25	0.00031	485197.88	3754255.75	0.00024
485215.25	3754157.25	0.00019	485232.63	3754058.75	0.00016
485249.97	3753960.25	0.00013	485267.34	3753861.75	0.00011
485284.69	3753763.25	0.00010	485302.06	3753664.75	0.00008
485319.44	3753566.25	0.00007	485336.81	3753467.75	0.00007

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 60
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485354.16	3753369.50	0.00006	485371.53	3753271.00	0.00005
485388.88	3753172.50	0.00005	485406.25	3753074.00	0.00004
485423.63	3752975.50	0.00004	485441.00	3752877.00	0.00004
485458.34	3752778.50	0.00003	485475.72	3752680.00	0.00003
485493.09	3752581.50	0.00003	485510.44	3752483.00	0.00003
485527.81	3752384.50	0.00003	485545.16	3752286.00	0.00002
485024.22	3754940.50	0.00641	485024.22	3754840.50	0.00244
485024.22	3754740.50	0.00128	485024.22	3754640.50	0.00076
485024.22	3754540.50	0.00050	485024.22	3754440.50	0.00035
485024.22	3754340.50	0.00027	485024.22	3754240.50	0.00021
485024.22	3754140.50	0.00016	485024.22	3754040.50	0.00013
485024.22	3753940.50	0.00011	485024.22	3753840.50	0.00010
485024.22	3753740.50	0.00008	485024.22	3753640.50	0.00007
485024.22	3753540.50	0.00006	485024.22	3753440.50	0.00006
485024.22	3753340.50	0.00005	485024.22	3753240.50	0.00004
485024.22	3753140.50	0.00004	485024.22	3753040.50	0.00004
485024.22	3752940.50	0.00003	485024.22	3752840.50	0.00003
485024.22	3752740.50	0.00003	485024.22	3752640.50	0.00003
485024.22	3752540.50	0.00002	485024.22	3752440.50	0.00002
485024.22	3752340.50	0.00002	485024.22	3752240.50	0.00002
484972.13	3754945.00	0.00662	484954.78	3754846.50	0.00239
484937.41	3754748.00	0.00124	484920.03	3754649.75	0.00074
484902.69	3754551.25	0.00049	484885.31	3754452.75	0.00034
484867.94	3754354.25	0.00025	484850.59	3754255.75	0.00019
484833.22	3754157.25	0.00015	484815.84	3754058.75	0.00012
484798.50	3753960.25	0.00010	484781.13	3753861.75	0.00009
484763.75	3753763.25	0.00008	484746.38	3753664.75	0.00007
484729.03	3753566.25	0.00006	484711.66	3753467.75	0.00005
484694.31	3753369.50	0.00005	484676.94	3753271.00	0.00004
484659.56	3753172.50	0.00004	484642.19	3753074.00	0.00004
484624.84	3752975.50	0.00003	484607.47	3752877.00	0.00003
484590.13	3752778.50	0.00003	484572.75	3752680.00	0.00003
484555.38	3752581.50	0.00003	484538.03	3752483.00	0.00002
484520.66	3752384.50	0.00002	484503.28	3752286.00	0.00002
484491.63	3754958.50	0.00771	484487.41	3754864.75	0.00257
484485.22	3754770.75	0.00129	484481.03	3754676.75	0.00078
484784.81	3754582.75	0.00053	484750.63	3754488.75	0.00037
484716.41	3754394.75	0.00027	484682.22	3754300.75	0.00021
484648.00	3754206.75	0.00017	484613.81	3754113.00	0.00014
484579.59	3754019.00	0.00011	484545.41	3753925.00	0.00010

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 61
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484511.19	3753831.00	0.00008	484477.00	3753737.00	0.00007
484442.81	3753643.00	0.00006	484408.59	3753549.00	0.00006
484374.38	3753455.00	0.00005	484340.19	3753361.00	0.00005
484306.00	3753267.25	0.00004	484271.78	3753173.25	0.00004
484237.59	3753079.25	0.00004	484203.38	3752985.25	0.00003
484169.19	3752891.25	0.00003	484134.97	3752797.25	0.00003
484100.78	3752703.25	0.00003	484066.56	3752609.25	0.00003
484032.38	3752515.50	0.00002	483998.16	3752421.50	0.00002
484874.22	3754980.75	0.01086	484824.22	3754894.00	0.00311
484774.22	3754807.50	0.00149	484724.22	3754721.00	0.00091
484674.22	3754634.25	0.00063	484624.22	3754547.75	0.00045
484574.22	3754461.00	0.00034	484524.22	3754374.50	0.00026
484474.22	3754288.00	0.00021	484424.22	3754201.25	0.00017
484374.22	3754114.75	0.00014	484324.22	3754028.00	0.00012
484274.22	3753941.50	0.00010	484224.22	3753854.75	0.00009
484174.22	3753768.25	0.00008	484124.22	3753681.75	0.00007
484074.22	3753595.00	0.00006	484024.22	3753508.50	0.00006
483974.22	3753421.75	0.00005	483924.22	3753335.25	0.00005
483874.22	3753248.75	0.00004	483824.22	3753162.00	0.00004
483774.22	3753075.50	0.00004	483724.22	3752988.75	0.00003
483674.22	3752902.25	0.00003	483624.22	3752815.75	0.00003
483574.22	3752729.00	0.00003	483524.22	3752642.50	0.00003
484767.13	3754934.00	0.00443	484702.84	3754857.50	0.00202
484638.56	3754781.00	0.00117	484574.28	3754704.25	0.00079
484510.00	3754627.75	0.00057	484445.72	3754551.00	0.00043
484381.44	3754474.50	0.00034	484317.16	3754397.75	0.00028
484252.88	3754321.25	0.00023	484188.63	3754244.75	0.00019
484124.34	3754168.00	0.00017	484060.06	3754091.50	0.00014
483995.78	3754014.75	0.00013	483931.50	3753938.25	0.00011
483867.22	3753861.75	0.00010	483802.94	3753785.00	0.00009
483738.66	3753708.50	0.00008	483674.38	3753631.75	0.00007
483610.09	3753555.25	0.00007	483545.81	3753478.50	0.00006
483481.53	3753402.00	0.00006	483417.25	3753325.50	0.00005
483352.97	3753248.75	0.00005	483288.69	3753172.25	0.00005
483224.41	3753095.50	0.00004	483160.16	3753019.00	0.00004
483095.88	3752942.50	0.00004	484717.81	3754983.50	0.00895
484641.22	3754919.00	0.00327	484564.59	3754854.75	0.00174
484488.00	3754790.50	0.00114	484411.38	3754726.25	0.00081
484334.78	3754662.00	0.00061	484258.19	3754597.75	0.00047
484181.59	3754533.50	0.00039	484104.97	3754469.25	0.00032

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 62
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484028.38	3754405.00	0.00028	483951.78	3754340.50	0.00024
483875.16	3754276.25	0.00021	483798.56	3754212.00	0.00019
483721.94	3754147.75	0.00017	483645.34	3754083.50	0.00015
483568.75	3754019.25	0.00014	483492.13	3753955.00	0.00013
483415.53	3753890.75	0.00012	483338.94	3753826.50	0.00011
483262.34	3753762.00	0.00010	483185.72	3753697.75	0.00009
483109.13	3753633.50	0.00009	483032.50	3753569.25	0.00008
482955.91	3753505.00	0.00008	482879.31	3753440.75	0.00007
482802.69	3753376.50	0.00007	482726.09	3753312.25	0.00007
484677.81	3755040.50	0.02136	484591.22	3754990.50	0.00858
484504.63	3754940.50	0.00313	484418.00	3754890.50	0.00195
484331.41	3754840.50	0.00137	484244.81	3754790.50	0.00101
484158.19	3754740.50	0.00076	484071.59	3754690.50	0.00060
483985.00	3754640.50	0.00049	483898.41	3754590.50	0.00040
483811.78	3754540.50	0.00034	483725.19	3754490.50	0.00030
483638.59	3754440.50	0.00026	483552.00	3754390.50	0.00024
483465.38	3754340.50	0.00021	483378.78	3754290.50	0.00019
483292.19	3754240.50	0.00018	483205.59	3754190.50	0.00016
483118.97	3754140.50	0.00015	483032.38	3754090.50	0.00014
482945.78	3754040.50	0.00013	482859.16	3753990.50	0.00012
482772.56	3753940.50	0.00012	482685.97	3753890.50	0.00011
482599.38	3753840.50	0.00010	482512.75	3753790.50	0.00010
482426.16	3753740.50	0.00009	484648.34	3755103.75	0.01939
484554.38	3755069.50	0.01659	484460.41	3755035.25	0.01274
484366.44	3755001.00	0.00428	484272.47	3754967.00	0.00278
484178.50	3754932.75	0.00204	484084.53	3754898.50	0.00154
483990.56	3754864.25	0.00119	483896.59	3754830.00	0.00095
483802.63	3754796.00	0.00078	483708.66	3754761.75	0.00066
483614.69	3754727.50	0.00056	483520.72	3754693.25	0.00049
483426.75	3754659.00	0.00043	483332.78	3754624.75	0.00038
483238.81	3754590.75	0.00034	483144.84	3754556.50	0.00031
483050.88	3754522.25	0.00028	482956.91	3754488.00	0.00025
482862.94	3754453.75	0.00023	482768.97	3754419.75	0.00021
482675.00	3754385.50	0.00020	482581.03	3754351.25	0.00018
482487.06	3754317.00	0.00017	482393.09	3754282.75	0.00016
482299.13	3754248.75	0.00015	482205.16	3754214.50	0.00014
484630.31	3755171.00	0.01798	484531.84	3755153.75	0.01317
484433.34	3755136.25	0.01297	484334.88	3755119.00	0.01821
484236.38	3755101.50	0.00727	484137.91	3755084.25	0.00452
484039.41	3755066.75	0.00334	483940.94	3755049.50	0.00262

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 63
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483842.47	3755032.25	0.00207	483743.97	3755014.75	0.00164
483645.50	3754997.50	0.00135	483547.03	3754980.00	0.00116
483448.53	3754962.75	0.00103	483350.06	3754945.25	0.00093
483251.59	3754928.00	0.00084	483153.09	3754910.50	0.00077
483054.63	3754893.25	0.00070	482956.13	3754875.75	0.00065
482857.66	3754858.50	0.00060	482759.16	3754841.00	0.00055
482660.69	3754823.75	0.00051	482562.22	3754806.50	0.00048
482463.72	3754789.00	0.00045	482365.25	3754771.75	0.00042
482266.78	3754754.25	0.00040	482168.28	3754737.00	0.00038
482069.81	3754719.50	0.00036	484624.22	3755240.50	0.01766
484524.22	3755240.50	0.01339	484424.22	3755240.50	0.01097
484324.22	3755240.50	0.01011	484224.22	3755240.50	0.01327
484124.22	3755240.50	0.01754	484024.22	3755240.50	0.01507
483924.22	3755240.50	0.01499	483824.22	3755240.50	0.01255
483724.22	3755240.50	0.01282	483624.22	3755240.50	0.01382
485270.06	3754972.75	0.01076	483424.22	3755240.50	0.00549
483324.22	3755240.50	0.00300	483224.22	3755240.50	0.00216
483124.22	3755240.50	0.00172	483024.22	3755240.50	0.00144
482924.22	3755240.50	0.00124	482824.22	3755240.50	0.00109
482724.22	3755240.50	0.00097	482624.22	3755240.50	0.00087
482524.22	3755240.50	0.00079	482424.22	3755240.50	0.00073
482324.22	3755240.50	0.00067	482224.22	3755240.50	0.00062
482124.22	3755240.50	0.00057	482024.22	3755240.50	0.00054
484630.31	3755310.00	0.01691	484531.84	3755327.25	0.01327
484433.34	3755344.75	0.01079	484334.88	3755362.00	0.00906
484236.38	3755379.50	0.00780	484137.91	3755396.75	0.00687
484039.41	3755414.25	0.00623	483940.94	3755431.50	0.00584
485244.81	3754972.75	0.01076	483743.97	3755466.25	0.00518
483645.50	3755483.50	0.00487	483547.03	3755501.00	0.00459
483448.53	3755518.25	0.00432	483350.06	3755535.75	0.00422
483251.59	3755553.00	0.00392	483153.09	3755570.50	0.00357
483054.63	3755587.75	0.00322	482956.13	3755605.25	0.00289
482857.66	3755622.50	0.00259	482759.16	3755640.00	0.00233
482660.69	3755657.25	0.00210	482562.22	3755674.75	0.00191
482463.72	3755692.00	0.00175	482365.25	3755709.25	0.00160
482266.78	3755726.75	0.00148	482168.28	3755744.00	0.00138
482069.81	3755761.50	0.00128	484648.34	3755377.25	0.01801
484554.38	3755411.50	0.01327	484524.72	3755001.75	0.01980
484366.44	3755480.00	0.00894	484272.47	3755514.25	0.00769
484178.50	3755548.25	0.00673	484084.53	3755582.50	0.00597

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: URBAN FLAT FLGPOL NOCALM NOCMPL
 PAGE 64

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483990.56	3755616.75	0.00535	483896.59	3755651.00	0.00483
483802.63	3755685.25	0.00440	483708.66	3755719.25	0.00402
483614.69	3755753.50	0.00371	483520.72	3755787.75	0.00344
483426.75	3755822.00	0.00320	483332.78	3755856.25	0.00298
483238.81	3755890.25	0.00279	483144.84	3755924.50	0.00262
483050.88	3755958.75	0.00247	482956.91	3755993.00	0.00233
482862.94	3756027.25	0.00220	482768.97	3756061.25	0.00209
482675.00	3756095.50	0.00198	482581.03	3756129.75	0.00189
482487.06	3756164.00	0.00180	482393.09	3756198.25	0.00172
482299.13	3756232.25	0.00164	482205.16	3756266.50	0.00157
484591.22	3755490.50	0.01251	484504.63	3755540.50	0.00946
484418.00	3755590.50	0.00763	484331.41	3755640.50	0.00639
484244.81	3755690.50	0.00548	484158.19	3755740.50	0.00478
484071.59	3755790.50	0.00422	483985.00	3755840.50	0.00377
483898.41	3755890.50	0.00340	483811.78	3755940.50	0.00308
483725.19	3755990.50	0.00282	483638.59	3756040.50	0.00259
483552.00	3756090.50	0.00239	483465.38	3756140.50	0.00222
483378.78	3756190.50	0.00207	483292.19	3756240.50	0.00193
483205.59	3756290.50	0.00180	483118.97	3756340.50	0.00169
483032.38	3756390.50	0.00160	482945.78	3756440.50	0.00151
482859.16	3756490.50	0.00143	482772.56	3756540.50	0.00136
482685.97	3756590.50	0.00129	482599.38	3756640.50	0.00123
482512.75	3756690.50	0.00117	482426.16	3756740.50	0.00112
484717.81	3755497.75	0.01197	484641.22	3755562.00	0.00840
484564.59	3755626.25	0.00638	484488.00	3755690.50	0.00506
484411.38	3755754.75	0.00413	484334.78	3755819.00	0.00344
484258.19	3755883.25	0.00291	484181.59	3755947.50	0.00249
484104.97	3756011.75	0.00216	484028.38	3756076.25	0.00188
483951.78	3756140.50	0.00166	483875.16	3756204.75	0.00147
483798.56	3756269.00	0.00131	483721.94	3756333.25	0.00118
483645.34	3756397.50	0.00107	483568.75	3756461.75	0.00097
483492.13	3756526.00	0.00088	483415.53	3756590.25	0.00081
483338.94	3756654.75	0.00074	483262.34	3756719.00	0.00068
483185.72	3756783.25	0.00063	483109.13	3756847.50	0.00058
483032.50	3756911.75	0.00054	482955.91	3756976.00	0.00050
482879.31	3757040.25	0.00047	482802.69	3757104.50	0.00044
482726.09	3757168.75	0.00041	484831.38	3755470.25	0.01456
484767.13	3755547.00	0.00885	484702.84	3755623.50	0.00604
484638.56	3755700.25	0.00436	484574.28	3755776.75	0.00328
484510.00	3755853.25	0.00254	484445.72	3755930.00	0.00202

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 10:20:07

**MODELOPTS: URBAN FLAT FLGPOL NOCALM NOCMPL
 PAGE 65

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484381.44	3756006.50	0.00163	484317.16	3756083.25	0.00135
484252.88	3756159.75	0.00113	484188.63	3756236.25	0.00096
484124.34	3756313.00	0.00082	484060.06	3756389.50	0.00072
483995.78	3756466.25	0.00063	483931.50	3756542.75	0.00056
483867.22	3756619.50	0.00050	483802.94	3756696.00	0.00046
483738.66	3756772.50	0.00042	483674.38	3756849.25	0.00038
483610.09	3756925.75	0.00035	483545.81	3757002.50	0.00033
483481.53	3757079.00	0.00030	483417.25	3757155.50	0.00028
483352.97	3757232.25	0.00027	483288.69	3757308.75	0.00025
483224.41	3757385.50	0.00024	483160.16	3757462.00	0.00022
483095.88	3757538.75	0.00021	484874.22	3755500.25	0.01149
484824.22	3755587.00	0.00678	484774.22	3755673.50	0.00440
484724.22	3755760.25	0.00304	484674.22	3755846.75	0.00219
484624.22	3755933.25	0.00164	484574.22	3756020.00	0.00126
484524.22	3756106.50	0.00100	484474.22	3756193.25	0.00081
484424.22	3756279.75	0.00068	484374.22	3756366.25	0.00058
484324.22	3756453.00	0.00050	484274.22	3756539.50	0.00045
484224.22	3756626.25	0.00040	484174.22	3756712.75	0.00036
484124.22	3756799.25	0.00033	484074.22	3756886.00	0.00030
484024.22	3756972.50	0.00027	483974.22	3757059.25	0.00025
483924.22	3757145.75	0.00023	483874.22	3757232.25	0.00022
483824.22	3757319.00	0.00020	483774.22	3757405.50	0.00019
483724.22	3757492.25	0.00018	483674.22	3757578.75	0.00017
483624.22	3757665.50	0.00016	483574.22	3757752.00	0.00015
483524.22	3757838.50	0.00014	484921.63	3755522.50	0.00953
484887.41	3755616.50	0.00528	484853.22	3755710.25	0.00332
484819.03	3755804.25	0.00223	484784.81	3755898.25	0.00155
484750.63	3755992.25	0.00113	484716.41	3756086.25	0.00088
484682.22	3756180.25	0.00071	484648.00	3756274.25	0.00060
484613.81	3756368.25	0.00051	484579.59	3756462.00	0.00044
484545.41	3756556.00	0.00039	484511.19	3756650.00	0.00034
484477.00	3756744.00	0.00030	484442.81	3756838.00	0.00027
484408.59	3756932.00	0.00025	484374.38	3757026.00	0.00022
484340.19	3757120.00	0.00020	484306.00	3757213.75	0.00019
484271.78	3757307.75	0.00017	484237.59	3757401.75	0.00016
484203.38	3757495.75	0.00015	484169.19	3757589.75	0.00014
484134.97	3757683.75	0.00013	484100.78	3757777.75	0.00012
484066.56	3757871.75	0.00012	484032.38	3757965.50	0.00011
483998.16	3758059.50	0.00011	484972.13	3755536.00	0.00817
484954.78	3755634.50	0.00437	484937.41	3755733.00	0.00267

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 66
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001052, L0001053, L0001054, L0001055, L0001056,
 L0001057, L0001058, L0001059, L0001060, L0001061, L0001062, L0001063, L0001064, L0001065, L0001066, L0001067, L0001068,
 L0001069, L0001070, L0001071, L0001072, L0001073, L0001074, L0001075, L0001076, L0001077, L0001078, L0001079, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484920.03	3755831.50	0.00170	484902.69	3755930.00	0.00117
484885.31	3756028.25	0.00089	484867.94	3756126.75	0.00071
484850.59	3756225.25	0.00059	484833.22	3756323.75	0.00050
484815.84	3756422.25	0.00042	484798.50	3756520.75	0.00037
484781.13	3756619.25	0.00033	484763.75	3756717.75	0.00029
484746.38	3756816.25	0.00026	484729.03	3756914.75	0.00024
484711.66	3757013.25	0.00022	484694.31	3757111.75	0.00020
484676.94	3757210.25	0.00019	484659.56	3757308.50	0.00017
484642.19	3757407.00	0.00016	484624.84	3757505.50	0.00015
484607.47	3757604.00	0.00014	484590.13	3757702.50	0.00014
484572.75	3757801.00	0.00013	484555.38	3757899.50	0.00012
484538.03	3757998.00	0.00012	484520.66	3758096.50	0.00011
484503.28	3758195.00	0.00011			

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 10:20:07

**MODELOPTS: PAGE 67
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.02842 AT (485400.13, 3755103.75,	0.00, 1.50]	DC NA
	2ND HIGHEST VALUE IS	0.02424 AT (485418.16, 3755171.00,	0.00, 1.50]	DC NA
	3RD HIGHEST VALUE IS	0.02376 AT (485424.22, 3755240.50,	0.00, 1.50]	DC NA
	4TH HIGHEST VALUE IS	0.02275 AT (485217.06, 3755010.75,	0.00, 1.50]	DC NA
	5TH HIGHEST VALUE IS	0.02251 AT (485418.16, 3755310.00,	0.00, 1.50]	DC NA
	6TH HIGHEST VALUE IS	0.02221 AT (485324.22, 3755240.50,	0.00, 1.50]	DC NA
	7TH HIGHEST VALUE IS	0.02136 AT (484677.81, 3755040.50,	0.00, 1.50]	DC NA
	8TH HIGHEST VALUE IS	0.01990 AT (485457.25, 3754990.50,	0.00, 1.50]	DC NA
	9TH HIGHEST VALUE IS	0.01988 AT (485268.91, 3755002.00,	0.00, 1.50]	DC NA
	10TH HIGHEST VALUE IS	0.01980 AT (485246.72, 3755001.75,	0.00, 1.50]	DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 10:20:07
**MODELOPTS: PAGE 68
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1398 Informational Message(s)

A Total of 1398 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
*** NONE ***

*** ISCST3 Finishes Successfully ***

-995-

Item No. E.3

```

**
*****
**
** ISCS3 Input Produced by:
** AERMOD View Ver. 6.2.0
** Lakes Environmental Software Inc.
** Date: 10/8/2009
** File: C:\Documents and Settings\hqureshi\Desktop\06192 HRA\WORKER.INP
**
*****
**
**
** ISCS3 Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc
TITLETWO West Ridge HRA
MODELOPT CONC NOCMPL URBAN NOCALM
AVERTIME ANNUAL
POLLUTID DPM
TERRHGT5 FLAT
FLAGPOLE 1.50
RUNORNOT RUN
CO FINISHED
**
*****
** ISCS3 Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION NORTH AREAPOLY 484851.861 3755334.115
LOCATION SOUTH AREAPOLY 484832.883 3755147.441
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = RED
** DESCRSRC
** Length of Side = 14.00
** Emission Rate = 1.44E-5
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 3
** 485514.05, 3755440.55, 0.00, 4.00, 0.0
** 485512.92, 3755025.40, 0.00, 4.00, 12.43
** 485281.77, 3755025.97, 0.00, 4.00, 11.94
**
*****
LOCATION L0001206 VOLUME 485514.043 3755433.500
LOCATION L0001207 VOLUME 485513.969 3755406.767
LOCATION L0001208 VOLUME 485513.894 3755380.033
LOCATION L0001209 VOLUME 485513.820 3755353.300
LOCATION L0001210 VOLUME 485513.745 3755326.567
LOCATION L0001211 VOLUME 485513.671 3755299.833
LOCATION L0001212 VOLUME 485513.596 3755273.100
LOCATION L0001213 VOLUME 485513.522 3755246.367
LOCATION L0001214 VOLUME 485513.447 3755219.633
LOCATION L0001215 VOLUME 485513.373 3755192.900
LOCATION L0001216 VOLUME 485513.298 3755166.167
LOCATION L0001217 VOLUME 485513.224 3755139.433
LOCATION L0001218 VOLUME 485513.149 3755112.700
LOCATION L0001219 VOLUME 485513.075 3755085.967

```

```

LOCATION L0001220 VOLUME 485513.000 3755059.233
LOCATION L0001221 VOLUME 485512.926 3755032.500
LOCATION L0001222 VOLUME 485494.226 3755025.540
LOCATION L0001223 VOLUME 485468.545 3755025.596
LOCATION L0001224 VOLUME 485442.865 3755025.652
LOCATION L0001225 VOLUME 485417.184 3755025.707
LOCATION L0001226 VOLUME 485391.503 3755025.763
LOCATION L0001227 VOLUME 485365.823 3755025.818
LOCATION L0001228 VOLUME 485340.142 3755025.874
LOCATION L0001229 VOLUME 485314.462 3755025.929
LOCATION L0001230 VOLUME 485288.781 3755025.985
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDS
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 3.1E-06
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 2
** 485270.26, 3755112.67, 0.00, 4.00, 0.0
** 485198.77, 3755113.34, 0.00, 4.00, 7.15
**
*****
LOCATION L0001231 VOLUME 485265.250 3755112.785
LOCATION L0001232 VOLUME 485249.883 3755112.892
LOCATION L0001233 VOLUME 485234.516 3755113.000
LOCATION L0001234 VOLUME 485219.148 3755113.108
LOCATION L0001235 VOLUME 485203.781 3755113.215
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDTOT
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 3.21E-06
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 2
** 485281.95, 3755038.82, 0.00, 4.00, 0.0
** 485280.98, 3755113.51, 0.00, 4.00, 7.53
**
*****
LOCATION L0001236 VOLUME 485281.873 3755043.750
LOCATION L0001237 VOLUME 485281.663 3755059.937
LOCATION L0001238 VOLUME 485281.453 3755076.125
LOCATION L0001239 VOLUME 485281.243 3755092.313
LOCATION L0001240 VOLUME 485281.034 3755108.500
** End of Line Source
** Line Source represented by Separated Volume Sources
**
*****
** LINE Source ID = EDN
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 1.42E-5
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 4
** 485281.03, 3755114.82, 0.00, 4.00, 0.0
** 485270.33, 3755371.11, 0.00, 4.00, 8.82
** 485257.73, 3755376.46, 0.00, 4.00, 6.41
** 485195.66, 3755376.08, 0.00, 4.00, 7.22
**
*****
LOCATION L0001241 VOLUME 485280.823 3755119.746
LOCATION L0001242 VOLUME 485280.033 3755138.689
LOCATION L0001243 VOLUME 485279.243 3755157.632
LOCATION L0001244 VOLUME 485278.453 3755176.575

```

LOCATION L0001245 VOLUME 485277.663 3755195.518
 LOCATION L0001246 VOLUME 485276.873 3755214.461
 LOCATION L0001247 VOLUME 485276.083 3755233.404
 LOCATION L0001248 VOLUME 485275.292 3755252.346
 LOCATION L0001249 VOLUME 485274.502 3755271.289
 LOCATION L0001250 VOLUME 485273.712 3755290.232
 LOCATION L0001251 VOLUME 485272.922 3755309.175
 LOCATION L0001252 VOLUME 485272.132 3755328.118
 LOCATION L0001253 VOLUME 485271.342 3755347.061
 LOCATION L0001254 VOLUME 485270.552 3755366.004
 LOCATION L0001255 VOLUME 485262.303 3755374.503
 LOCATION L0001256 VOLUME 485247.203 3755376.415
 LOCATION L0001257 VOLUME 485231.687 3755376.290
 LOCATION L0001258 VOLUME 485216.172 3755376.165
 LOCATION L0001259 VOLUME 485200.656 3755376.040

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----

** LINE Source ID = EA1
 ** DESCRSRC
 ** Length of Side = 14.00
 ** Emission Rate = 3.41E-5
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 9

** 483513.58, 3755437.36, 0.00, 4.00, 0.0
 ** 483523.83, 3755223.52, 0.00, 4.00, 11.63
 ** 484153.63, 3755222.06, 0.00, 4.00, 12.74
 ** 484283.98, 3755186.90, 0.00, 4.00, 12.55
 ** 484370.40, 3755109.28, 0.00, 4.00, 10.81
 ** 484502.21, 3755038.97, 0.00, 4.00, 11.58
 ** 484588.63, 3755021.40, 0.00, 4.00, 10.25
 ** 484758.53, 3755019.93, 0.00, 4.00, 11.29
 ** 484782.82, 3755021.23, 0.00, 4.00, 11.31
 ** -----

LOCATION L0001260 VOLUME 483513.899 3755430.258
 LOCATION L0001261 VOLUME 483515.100 3755405.287
 LOCATION L0001262 VOLUME 483516.301 3755380.317
 LOCATION L0001263 VOLUME 483517.502 3755355.346
 LOCATION L0001264 VOLUME 483518.703 3755330.375
 LOCATION L0001265 VOLUME 483519.904 3755305.404
 LOCATION L0001266 VOLUME 483521.105 3755280.433
 LOCATION L0001267 VOLUME 483522.306 3755255.463
 LOCATION L0001268 VOLUME 483523.507 3755230.492
 LOCATION L0001269 VOLUME 483544.226 3755223.451
 LOCATION L0001270 VOLUME 483571.607 3755223.386
 LOCATION L0001271 VOLUME 483598.989 3755223.321
 LOCATION L0001272 VOLUME 483626.371 3755223.256
 LOCATION L0001273 VOLUME 483653.753 3755223.191
 LOCATION L0001274 VOLUME 483681.135 3755223.125
 LOCATION L0001275 VOLUME 483708.516 3755223.060
 LOCATION L0001276 VOLUME 483735.898 3755222.995
 LOCATION L0001277 VOLUME 483763.280 3755222.930
 LOCATION L0001278 VOLUME 483790.662 3755222.864
 LOCATION L0001279 VOLUME 483818.043 3755222.799
 LOCATION L0001280 VOLUME 483845.425 3755222.734
 LOCATION L0001281 VOLUME 483872.807 3755222.669
 LOCATION L0001282 VOLUME 483900.189 3755222.604
 LOCATION L0001283 VOLUME 483927.571 3755222.538
 LOCATION L0001284 VOLUME 483954.952 3755222.473
 LOCATION L0001285 VOLUME 483982.334 3755222.408
 LOCATION L0001286 VOLUME 484009.716 3755222.343
 LOCATION L0001287 VOLUME 484037.098 3755222.278
 LOCATION L0001288 VOLUME 484064.480 3755222.212
 LOCATION L0001289 VOLUME 484091.861 3755222.147
 LOCATION L0001290 VOLUME 484119.243 3755222.082

LOCATION L0001291 VOLUME 484146.625 3755222.017
 LOCATION L0001292 VOLUME 484172.933 3755216.815
 LOCATION L0001293 VOLUME 484199.002 3755209.815
 LOCATION L0001294 VOLUME 484225.071 3755202.815
 LOCATION L0001295 VOLUME 484251.139 3755195.815
 LOCATION L0001296 VOLUME 484277.208 3755188.815
 LOCATION L0001297 VOLUME 484296.052 3755176.131
 LOCATION L0001298 VOLUME 484313.339 3755160.581
 LOCATION L0001299 VOLUME 484330.627 3755145.031
 LOCATION L0001300 VOLUME 484347.914 3755129.481
 LOCATION L0001301 VOLUME 484365.202 3755113.931
 LOCATION L0001302 VOLUME 484386.198 3755100.834
 LOCATION L0001303 VOLUME 484408.166 3755089.126
 LOCATION L0001304 VOLUME 484430.135 3755077.417
 LOCATION L0001305 VOLUME 484452.104 3755065.709
 LOCATION L0001306 VOLUME 484474.073 3755054.001
 LOCATION L0001307 VOLUME 484496.041 3755042.292
 LOCATION L0001308 VOLUME 484516.960 3755036.015
 LOCATION L0001309 VOLUME 484538.561 3755031.640
 LOCATION L0001310 VOLUME 484560.163 3755027.265
 LOCATION L0001311 VOLUME 484581.764 3755022.890
 LOCATION L0001312 VOLUME 484605.898 3755021.348
 LOCATION L0001313 VOLUME 484630.170 3755021.133
 LOCATION L0001314 VOLUME 484654.442 3755020.919
 LOCATION L0001315 VOLUME 484678.715 3755020.705
 LOCATION L0001316 VOLUME 484702.987 3755020.490
 LOCATION L0001317 VOLUME 484727.259 3755020.276
 LOCATION L0001318 VOLUME 484751.532 3755020.062
 LOCATION L0001319 VOLUME 484775.822 3755020.890

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----

** LINE Source ID = WDTOT
 ** DESCRSRC
 ** Length of Side = 10.00
 ** Emission Rate = 2.03E-06
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 2

** 484781.52, 3755035.53, 0.00, 4.00, 0.0
 ** 484780.87, 3755083.62, 0.00, 4.00, 8.84
 ** -----

LOCATION L0001320 VOLUME 484781.435 3755040.500
 LOCATION L0001321 VOLUME 484781.188 3755059.500
 LOCATION L0001322 VOLUME 484780.940 3755078.500

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----

** LINE Source ID = WDN
 ** DESCRSRC
 ** Length of Side = 10.00
 ** Emission Rate = 1.35E-5
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 3

** 484780.22, 3755082.97, 0.00, 4.00, 0.0
 ** 484777.62, 3755376.07, 0.00, 4.00, 8.78
 ** 484799.06, 3755375.42, 0.00, 4.00, 4.99
 ** -----

LOCATION L0001323 VOLUME 484780.174 3755088.000
 LOCATION L0001324 VOLUME 484780.007 3755106.866
 LOCATION L0001325 VOLUME 484779.840 3755125.733
 LOCATION L0001326 VOLUME 484779.673 3755144.600
 LOCATION L0001327 VOLUME 484779.506 3755163.467
 LOCATION L0001328 VOLUME 484779.339 3755182.333
 LOCATION L0001329 VOLUME 484779.172 3755201.200

LOCATION L0001330 VOLUME 484779.005 3755220.067
 LOCATION L0001331 VOLUME 484778.838 3755238.933
 LOCATION L0001332 VOLUME 484778.671 3755257.800
 LOCATION L0001333 VOLUME 484778.504 3755276.667
 LOCATION L0001334 VOLUME 484778.337 3755295.533
 LOCATION L0001335 VOLUME 484778.170 3755314.400
 LOCATION L0001336 VOLUME 484778.003 3755333.267
 LOCATION L0001337 VOLUME 484777.836 3755352.134
 LOCATION L0001338 VOLUME 484777.669 3755371.000
 LOCATION L0001339 VOLUME 484783.345 3755375.867
 LOCATION L0001340 VOLUME 484794.064 3755375.617

** End of Line Source
 ** Line Source represented by Separated Volume Sources
 ** -----
 ** LINE Source ID = EACONN
 ** DESCRSRC
 ** Length of Side = 14.00
 ** Emission Rate = 1.1E-5
 ** Vertical Dimension = 4.00
 ** SZINIT = 1.86
 ** Nodes = 2
 ** 485277.37, 3755024.48, 0.00, 4.00, 0.0
 ** 484786.06, 3755019.93, 0.00, 4.00, 12.33
 ** -----

LOCATION L0001341 VOLUME 485270.375 3755024.436
 LOCATION L0001342 VOLUME 485243.858 3755024.193
 LOCATION L0001343 VOLUME 485217.341 3755023.950
 LOCATION L0001344 VOLUME 485190.823 3755023.707
 LOCATION L0001345 VOLUME 485164.306 3755023.464
 LOCATION L0001346 VOLUME 485137.788 3755023.222
 LOCATION L0001347 VOLUME 485111.271 3755022.979
 LOCATION L0001348 VOLUME 485084.754 3755022.736
 LOCATION L0001349 VOLUME 485058.236 3755022.493
 LOCATION L0001350 VOLUME 485031.719 3755022.250
 LOCATION L0001351 VOLUME 485005.201 3755022.007
 LOCATION L0001352 VOLUME 484978.684 3755021.764
 LOCATION L0001353 VOLUME 484952.167 3755021.521
 LOCATION L0001354 VOLUME 484925.649 3755021.278
 LOCATION L0001355 VOLUME 484899.132 3755021.036
 LOCATION L0001356 VOLUME 484872.614 3755020.793
 LOCATION L0001357 VOLUME 484846.097 3755020.550
 LOCATION L0001358 VOLUME 484819.580 3755020.307
 LOCATION L0001359 VOLUME 484793.062 3755020.064

** End of Line Source
 ** Source Parameters **
 SRCPARAM NORTH 3.41E-10 4.000 11 1.860
 AREAVERT NORTH 484851.861 3755334.115 484795.898 3755334.215
 AREAVERT NORTH 484793.656 3755354.326 484789.516 3755391.010
 AREAVERT NORTH 484791.656 3755391.005 485116.083 3755390.148
 AREAVERT NORTH 485099.331 3755390.160 485136.349 3755386.791
 AREAVERT NORTH 485222.754 3755374.982 485234.337 3755341.479
 AREAVERT NORTH 485184.092 3755342.300
 SRCPARAM SOUTH 3.732E-10 4.000 10 1.860
 AREAVERT SOUTH 484832.883 3755147.441 484832.883 3755132.927
 AREAVERT SOUTH 484832.775 3755132.927 484834.526 3755092.171
 AREAVERT SOUTH 485198.157 3755095.373 485196.612 3755131.130
 AREAVERT SOUTH 485196.184 3755149.677 485181.290 3755150.857
 AREAVERT SOUTH 485176.151 3755150.296 485174.750 3755149.918
 SRCPARAM L0001206 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001207 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001208 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001209 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001210 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001211 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001212 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001213 5.76E-07 4.00 12.43 1.86

SRCPARAM L0001214 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001215 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001216 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001217 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001218 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001219 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001220 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001221 5.76E-07 4.00 12.43 1.86
 SRCPARAM L0001222 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001223 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001224 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001225 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001226 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001227 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001228 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001229 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001230 5.76E-07 4.00 11.94 1.86
 SRCPARAM L0001231 6.2E-07 4.00 7.15 1.86
 SRCPARAM L0001232 6.2E-07 4.00 7.15 1.86
 SRCPARAM L0001233 6.2E-07 4.00 7.15 1.86
 SRCPARAM L0001234 6.2E-07 4.00 7.15 1.86
 SRCPARAM L0001235 6.2E-07 4.00 7.15 1.86
 SRCPARAM L0001236 6.42E-07 4.00 7.53 1.86
 SRCPARAM L0001237 6.42E-07 4.00 7.53 1.86
 SRCPARAM L0001238 6.42E-07 4.00 7.53 1.86
 SRCPARAM L0001239 6.42E-07 4.00 7.53 1.86
 SRCPARAM L0001240 6.42E-07 4.00 7.53 1.86
 SRCPARAM L0001241 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001242 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001243 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001244 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001245 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001246 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001247 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001248 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001249 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001250 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001251 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001252 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001253 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001254 7.4737E-07 4.00 8.82 1.86
 SRCPARAM L0001255 7.4737E-07 4.00 6.41 1.86
 SRCPARAM L0001256 7.4737E-07 4.00 7.22 1.86
 SRCPARAM L0001257 7.4737E-07 4.00 7.22 1.86
 SRCPARAM L0001258 7.4737E-07 4.00 7.22 1.86
 SRCPARAM L0001259 7.4737E-07 4.00 7.22 1.86
 SRCPARAM L0001260 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001261 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001262 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001263 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001264 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001265 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001266 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001267 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001268 5.6833E-07 4.00 11.63 1.86
 SRCPARAM L0001269 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001270 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001271 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001272 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001273 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001274 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001275 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001276 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001277 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001278 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001279 5.6833E-07 4.00 12.74 1.86

SRCPARAM L0001280 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001281 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001282 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001283 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001284 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001285 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001286 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001287 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001288 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001289 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001290 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001291 5.6833E-07 4.00 12.74 1.86
 SRCPARAM L0001292 5.6833E-07 4.00 12.55 1.86
 SRCPARAM L0001293 5.6833E-07 4.00 12.55 1.86
 SRCPARAM L0001294 5.6833E-07 4.00 12.55 1.86
 SRCPARAM L0001295 5.6833E-07 4.00 12.55 1.86
 SRCPARAM L0001296 5.6833E-07 4.00 12.55 1.86
 SRCPARAM L0001297 5.6833E-07 4.00 10.81 1.86
 SRCPARAM L0001298 5.6833E-07 4.00 10.81 1.86
 SRCPARAM L0001299 5.6833E-07 4.00 10.81 1.86
 SRCPARAM L0001300 5.6833E-07 4.00 10.81 1.86
 SRCPARAM L0001301 5.6833E-07 4.00 10.81 1.86
 SRCPARAM L0001302 5.6833E-07 4.00 11.58 1.86
 SRCPARAM L0001303 5.6833E-07 4.00 11.58 1.86
 SRCPARAM L0001304 5.6833E-07 4.00 11.58 1.86
 SRCPARAM L0001305 5.6833E-07 4.00 11.58 1.86
 SRCPARAM L0001306 5.6833E-07 4.00 11.58 1.86
 SRCPARAM L0001307 5.6833E-07 4.00 11.58 1.86
 SRCPARAM L0001308 5.6833E-07 4.00 10.25 1.86
 SRCPARAM L0001309 5.6833E-07 4.00 10.25 1.86
 SRCPARAM L0001310 5.6833E-07 4.00 10.25 1.86
 SRCPARAM L0001311 5.6833E-07 4.00 10.25 1.86
 SRCPARAM L0001312 5.6833E-07 4.00 11.29 1.86
 SRCPARAM L0001313 5.6833E-07 4.00 11.29 1.86
 SRCPARAM L0001314 5.6833E-07 4.00 11.29 1.86
 SRCPARAM L0001315 5.6833E-07 4.00 11.29 1.86
 SRCPARAM L0001316 5.6833E-07 4.00 11.29 1.86
 SRCPARAM L0001317 5.6833E-07 4.00 11.29 1.86
 SRCPARAM L0001318 5.6833E-07 4.00 11.29 1.86
 SRCPARAM L0001319 5.6833E-07 4.00 11.31 1.86
 SRCPARAM L0001320 6.7667E-07 4.00 8.84 1.86
 SRCPARAM L0001321 6.7667E-07 4.00 8.84 1.86
 SRCPARAM L0001322 6.7667E-07 4.00 8.84 1.86
 SRCPARAM L0001323 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001324 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001325 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001326 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001327 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001328 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001329 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001330 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001331 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001332 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001333 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001334 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001335 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001336 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001337 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001338 7.5E-07 4.00 8.78 1.86
 SRCPARAM L0001339 7.5E-07 4.00 4.99 1.86
 SRCPARAM L0001340 7.5E-07 4.00 4.99 1.86
 SRCPARAM L0001341 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001342 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001343 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001344 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001345 5.7895E-07 4.00 12.33 1.86

SRCPARAM L0001346 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001347 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001348 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001349 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001350 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001351 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001352 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001353 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001354 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001355 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001356 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001357 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001358 5.7895E-07 4.00 12.33 1.86
 SRCPARAM L0001359 5.7895E-07 4.00 12.33 1.86

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 1"

EMISFACT NORTH HROFDY 8 8 4 4 10 21
 EMISFACT NORTH HROFDY 21 17 17 17 13 8
 EMISFACT NORTH HROFDY 8 13 17 21 21 31
 EMISFACT NORTH HROFDY 42 21 21 38 31 17
 EMISFACT SOUTH HROFDY 8 8 4 4 10 21
 EMISFACT SOUTH HROFDY 21 17 17 17 13 8
 EMISFACT SOUTH HROFDY 8 13 17 21 21 31
 EMISFACT SOUTH HROFDY 42 21 21 38 31 17

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 2"

EMISFACT L0001260 HROFDY 3 3 2 2 4 8
 EMISFACT L0001260 HROFDY 8 7 7 7 5 3
 EMISFACT L0001260 HROFDY 3 5 7 8 8 13
 EMISFACT L0001260 HROFDY 17 8 8 15 13 7
 EMISFACT L0001261 HROFDY 3 3 2 2 4 8
 EMISFACT L0001261 HROFDY 8 7 7 7 5 3
 EMISFACT L0001261 HROFDY 3 5 7 8 8 13
 EMISFACT L0001261 HROFDY 17 8 8 15 13 7
 EMISFACT L0001262 HROFDY 3 3 2 2 4 8
 EMISFACT L0001262 HROFDY 8 7 7 7 5 3
 EMISFACT L0001262 HROFDY 3 5 7 8 8 13
 EMISFACT L0001262 HROFDY 17 8 8 15 13 7
 EMISFACT L0001263 HROFDY 3 3 2 2 4 8
 EMISFACT L0001263 HROFDY 8 7 7 7 5 3
 EMISFACT L0001263 HROFDY 3 5 7 8 8 13
 EMISFACT L0001263 HROFDY 17 8 8 15 13 7
 EMISFACT L0001264 HROFDY 3 3 2 2 4 8
 EMISFACT L0001264 HROFDY 8 7 7 7 5 3
 EMISFACT L0001264 HROFDY 3 5 7 8 8 13
 EMISFACT L0001264 HROFDY 17 8 8 15 13 7
 EMISFACT L0001265 HROFDY 3 3 2 2 4 8
 EMISFACT L0001265 HROFDY 8 7 7 7 5 3
 EMISFACT L0001265 HROFDY 3 5 7 8 8 13
 EMISFACT L0001265 HROFDY 17 8 8 15 13 7
 EMISFACT L0001266 HROFDY 3 3 2 2 4 8
 EMISFACT L0001266 HROFDY 8 7 7 7 5 3
 EMISFACT L0001266 HROFDY 3 5 7 8 8 13
 EMISFACT L0001266 HROFDY 17 8 8 15 13 7
 EMISFACT L0001267 HROFDY 3 3 2 2 4 8
 EMISFACT L0001267 HROFDY 8 7 7 7 5 3
 EMISFACT L0001267 HROFDY 3 5 7 8 8 13
 EMISFACT L0001267 HROFDY 17 8 8 15 13 7
 EMISFACT L0001268 HROFDY 3 3 2 2 4 8
 EMISFACT L0001268 HROFDY 8 7 7 7 5 3
 EMISFACT L0001268 HROFDY 3 5 7 8 8 13
 EMISFACT L0001268 HROFDY 17 8 8 15 13 7
 EMISFACT L0001269 HROFDY 3 3 2 2 4 8
 EMISFACT L0001269 HROFDY 8 7 7 7 5 3

EMISFACT L0001302 HROFDY 3 5 7 8 8 13
 EMISFACT L0001302 HROFDY 17 8 8 15 13 7
 EMISFACT L0001303 HROFDY 3 3 2 2 4 8
 EMISFACT L0001303 HROFDY 8 7 7 7 5 3
 EMISFACT L0001303 HROFDY 3 5 7 8 8 13
 EMISFACT L0001303 HROFDY 17 8 8 15 13 7
 EMISFACT L0001304 HROFDY 3 3 2 2 4 8
 EMISFACT L0001304 HROFDY 8 7 7 7 5 3
 EMISFACT L0001304 HROFDY 3 5 7 8 8 13
 EMISFACT L0001304 HROFDY 17 8 8 15 13 7
 EMISFACT L0001305 HROFDY 3 3 2 2 4 8
 EMISFACT L0001305 HROFDY 8 7 7 7 5 3
 EMISFACT L0001305 HROFDY 3 5 7 8 8 13
 EMISFACT L0001305 HROFDY 17 8 8 15 13 7
 EMISFACT L0001306 HROFDY 3 3 2 2 4 8
 EMISFACT L0001306 HROFDY 8 7 7 7 5 3
 EMISFACT L0001306 HROFDY 3 5 7 8 8 13
 EMISFACT L0001306 HROFDY 17 8 8 15 13 7
 EMISFACT L0001307 HROFDY 3 3 2 2 4 8
 EMISFACT L0001307 HROFDY 8 7 7 7 5 3
 EMISFACT L0001307 HROFDY 3 5 7 8 8 13
 EMISFACT L0001307 HROFDY 17 8 8 15 13 7
 EMISFACT L0001308 HROFDY 3 3 2 2 4 8
 EMISFACT L0001308 HROFDY 8 7 7 7 5 3
 EMISFACT L0001308 HROFDY 3 5 7 8 8 13
 EMISFACT L0001308 HROFDY 17 8 8 15 13 7
 EMISFACT L0001309 HROFDY 3 3 2 2 4 8
 EMISFACT L0001309 HROFDY 8 7 7 7 5 3
 EMISFACT L0001309 HROFDY 3 5 7 8 8 13
 EMISFACT L0001309 HROFDY 17 8 8 15 13 7
 EMISFACT L0001310 HROFDY 3 3 2 2 4 8
 EMISFACT L0001310 HROFDY 8 7 7 7 5 3
 EMISFACT L0001310 HROFDY 3 5 7 8 8 13
 EMISFACT L0001310 HROFDY 17 8 8 15 13 7
 EMISFACT L0001311 HROFDY 3 3 2 2 4 8
 EMISFACT L0001311 HROFDY 8 7 7 7 5 3
 EMISFACT L0001311 HROFDY 3 5 7 8 8 13
 EMISFACT L0001311 HROFDY 17 8 8 15 13 7
 EMISFACT L0001312 HROFDY 3 3 2 2 4 8
 EMISFACT L0001312 HROFDY 8 7 7 7 5 3
 EMISFACT L0001312 HROFDY 3 5 7 8 8 13
 EMISFACT L0001312 HROFDY 17 8 8 15 13 7
 EMISFACT L0001313 HROFDY 3 3 2 2 4 8
 EMISFACT L0001313 HROFDY 8 7 7 7 5 3
 EMISFACT L0001313 HROFDY 3 5 7 8 8 13
 EMISFACT L0001313 HROFDY 17 8 8 15 13 7
 EMISFACT L0001314 HROFDY 3 3 2 2 4 8
 EMISFACT L0001314 HROFDY 8 7 7 7 5 3
 EMISFACT L0001314 HROFDY 3 5 7 8 8 13
 EMISFACT L0001314 HROFDY 17 8 8 15 13 7
 EMISFACT L0001315 HROFDY 3 3 2 2 4 8
 EMISFACT L0001315 HROFDY 8 7 7 7 5 3
 EMISFACT L0001315 HROFDY 3 5 7 8 8 13
 EMISFACT L0001315 HROFDY 17 8 8 15 13 7
 EMISFACT L0001316 HROFDY 3 3 2 2 4 8
 EMISFACT L0001316 HROFDY 8 7 7 7 5 3
 EMISFACT L0001316 HROFDY 3 5 7 8 8 13
 EMISFACT L0001316 HROFDY 17 8 8 15 13 7
 EMISFACT L0001317 HROFDY 3 3 2 2 4 8
 EMISFACT L0001317 HROFDY 8 7 7 7 5 3
 EMISFACT L0001317 HROFDY 3 5 7 8 8 13
 EMISFACT L0001317 HROFDY 17 8 8 15 13 7
 EMISFACT L0001318 HROFDY 3 3 2 2 4 8
 EMISFACT L0001318 HROFDY 8 7 7 7 5 3
 EMISFACT L0001318 HROFDY 3 5 7 8 8 13
 EMISFACT L0001318 HROFDY 17 8 8 15 13 7

EMISFACT L0001319 HROFDY 3 3 2 2 4 8
 EMISFACT L0001319 HROFDY 8 7 7 7 5 3
 EMISFACT L0001319 HROFDY 3 5 7 8 8 13
 EMISFACT L0001319 HROFDY 17 8 8 15 13 7

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 3"

EMISFACT L0001320 HROFDY 8 8 4 4 10 21
 EMISFACT L0001320 HROFDY 21 17 17 17 13 8
 EMISFACT L0001320 HROFDY 8 13 17 21 21 31
 EMISFACT L0001320 HROFDY 42 21 21 38 31 17
 EMISFACT L0001321 HROFDY 8 8 4 4 10 21
 EMISFACT L0001321 HROFDY 21 17 17 17 13 8
 EMISFACT L0001321 HROFDY 8 13 17 21 21 31
 EMISFACT L0001321 HROFDY 42 21 21 38 31 17
 EMISFACT L0001322 HROFDY 8 8 4 4 10 21
 EMISFACT L0001322 HROFDY 21 17 17 17 13 8
 EMISFACT L0001322 HROFDY 8 13 17 21 21 31
 EMISFACT L0001322 HROFDY 42 21 21 38 31 17
 EMISFACT L0001236 HROFDY 8 8 4 4 10 21
 EMISFACT L0001236 HROFDY 21 17 17 17 13 8
 EMISFACT L0001236 HROFDY 8 13 17 21 21 31
 EMISFACT L0001236 HROFDY 42 21 21 38 31 17
 EMISFACT L0001237 HROFDY 8 8 4 4 10 21
 EMISFACT L0001237 HROFDY 21 17 17 17 13 8
 EMISFACT L0001237 HROFDY 8 13 17 21 21 31
 EMISFACT L0001237 HROFDY 42 21 21 38 31 17
 EMISFACT L0001238 HROFDY 8 8 4 4 10 21
 EMISFACT L0001238 HROFDY 21 17 17 17 13 8
 EMISFACT L0001238 HROFDY 8 13 17 21 21 31
 EMISFACT L0001238 HROFDY 42 21 21 38 31 17
 EMISFACT L0001239 HROFDY 8 8 4 4 10 21
 EMISFACT L0001239 HROFDY 21 17 17 17 13 8
 EMISFACT L0001239 HROFDY 8 13 17 21 21 31
 EMISFACT L0001239 HROFDY 42 21 21 38 31 17
 EMISFACT L0001240 HROFDY 8 8 4 4 10 21
 EMISFACT L0001240 HROFDY 21 17 17 17 13 8
 EMISFACT L0001240 HROFDY 8 13 17 21 21 31
 EMISFACT L0001240 HROFDY 42 21 21 38 31 17

** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Scenario 4"

EMISFACT L0001323 HROFDY 4 4 2 2 5 10
 EMISFACT L0001323 HROFDY 10 8 8 8 6 4
 EMISFACT L0001323 HROFDY 4 6 8 10 10 16
 EMISFACT L0001323 HROFDY 21 10 10 19 16 8
 EMISFACT L0001324 HROFDY 4 4 2 2 5 10
 EMISFACT L0001324 HROFDY 10 8 8 8 6 4
 EMISFACT L0001324 HROFDY 4 6 8 10 10 16
 EMISFACT L0001324 HROFDY 21 10 10 19 16 8
 EMISFACT L0001325 HROFDY 4 4 2 2 5 10
 EMISFACT L0001325 HROFDY 10 8 8 8 6 4
 EMISFACT L0001325 HROFDY 4 6 8 10 10 16
 EMISFACT L0001325 HROFDY 21 10 10 19 16 8
 EMISFACT L0001326 HROFDY 4 4 2 2 5 10
 EMISFACT L0001326 HROFDY 10 8 8 8 6 4
 EMISFACT L0001326 HROFDY 4 6 8 10 10 16
 EMISFACT L0001326 HROFDY 21 10 10 19 16 8
 EMISFACT L0001327 HROFDY 4 4 2 2 5 10
 EMISFACT L0001327 HROFDY 10 8 8 8 6 4
 EMISFACT L0001327 HROFDY 4 6 8 10 10 16
 EMISFACT L0001327 HROFDY 21 10 10 19 16 8
 EMISFACT L0001328 HROFDY 4 4 2 2 5 10
 EMISFACT L0001328 HROFDY 10 8 8 8 6 4
 EMISFACT L0001328 HROFDY 4 6 8 10 10 16
 EMISFACT L0001328 HROFDY 21 10 10 19 16 8

EMISFACT L0001344 HROFDY 5 7 10 12 12 19
EMISFACT L0001344 HROFDY 25 12 12 22 19 10
EMISFACT L0001345 HROFDY 5 5 2 2 6 12
EMISFACT L0001345 HROFDY 12 10 10 10 7 5
EMISFACT L0001345 HROFDY 5 7 10 12 12 19
EMISFACT L0001345 HROFDY 25 12 12 22 19 10
EMISFACT L0001346 HROFDY 5 5 2 2 6 12
EMISFACT L0001346 HROFDY 12 10 10 10 7 5
EMISFACT L0001346 HROFDY 5 7 10 12 12 19
EMISFACT L0001346 HROFDY 25 12 12 22 19 10
EMISFACT L0001347 HROFDY 5 5 2 2 6 12
EMISFACT L0001347 HROFDY 12 10 10 10 7 5
EMISFACT L0001347 HROFDY 5 7 10 12 12 19
EMISFACT L0001347 HROFDY 25 12 12 22 19 10
EMISFACT L0001348 HROFDY 5 5 2 2 6 12
EMISFACT L0001348 HROFDY 12 10 10 10 7 5
EMISFACT L0001348 HROFDY 5 7 10 12 12 19
EMISFACT L0001348 HROFDY 25 12 12 22 19 10
EMISFACT L0001349 HROFDY 5 5 2 2 6 12
EMISFACT L0001349 HROFDY 12 10 10 10 7 5
EMISFACT L0001349 HROFDY 5 7 10 12 12 19
EMISFACT L0001349 HROFDY 25 12 12 22 19 10
EMISFACT L0001350 HROFDY 5 5 2 2 6 12
EMISFACT L0001350 HROFDY 12 10 10 10 7 5
EMISFACT L0001350 HROFDY 5 7 10 12 12 19
EMISFACT L0001350 HROFDY 25 12 12 22 19 10
EMISFACT L0001351 HROFDY 5 5 2 2 6 12
EMISFACT L0001351 HROFDY 12 10 10 10 7 5
EMISFACT L0001351 HROFDY 5 7 10 12 12 19
EMISFACT L0001351 HROFDY 25 12 12 22 19 10
EMISFACT L0001352 HROFDY 5 5 2 2 6 12
EMISFACT L0001352 HROFDY 12 10 10 10 7 5
EMISFACT L0001352 HROFDY 5 7 10 12 12 19
EMISFACT L0001352 HROFDY 25 12 12 22 19 10
EMISFACT L0001353 HROFDY 5 5 2 2 6 12
EMISFACT L0001353 HROFDY 12 10 10 10 7 5
EMISFACT L0001353 HROFDY 5 7 10 12 12 19
EMISFACT L0001353 HROFDY 25 12 12 22 19 10
EMISFACT L0001354 HROFDY 5 5 2 2 6 12
EMISFACT L0001354 HROFDY 12 10 10 10 7 5
EMISFACT L0001354 HROFDY 5 7 10 12 12 19
EMISFACT L0001354 HROFDY 25 12 12 22 19 10
EMISFACT L0001355 HROFDY 5 5 2 2 6 12
EMISFACT L0001355 HROFDY 12 10 10 10 7 5
EMISFACT L0001355 HROFDY 5 7 10 12 12 19
EMISFACT L0001355 HROFDY 25 12 12 22 19 10
EMISFACT L0001356 HROFDY 5 5 2 2 6 12
EMISFACT L0001356 HROFDY 12 10 10 10 7 5
EMISFACT L0001356 HROFDY 5 7 10 12 12 19
EMISFACT L0001356 HROFDY 25 12 12 22 19 10
EMISFACT L0001357 HROFDY 5 5 2 2 6 12
EMISFACT L0001357 HROFDY 12 10 10 10 7 5
EMISFACT L0001357 HROFDY 5 7 10 12 12 19
EMISFACT L0001357 HROFDY 25 12 12 22 19 10
EMISFACT L0001358 HROFDY 5 5 2 2 6 12
EMISFACT L0001358 HROFDY 12 10 10 10 7 5
EMISFACT L0001358 HROFDY 5 7 10 12 12 19
EMISFACT L0001358 HROFDY 25 12 12 22 19 10
EMISFACT L0001359 HROFDY 5 5 2 2 6 12
EMISFACT L0001359 HROFDY 12 10 10 10 7 5
EMISFACT L0001359 HROFDY 5 7 10 12 12 19
EMISFACT L0001359 HROFDY 25 12 12 22 19 10
SRCGROUP ALL
SO FINISHED
**

** ISCT3 Receptor Pathway

**
**
RE STARTING
** DESCREC "UPOLI" "Receptors generated from Uniform Polar Grid"
DISCCART 485024.23 3755540.51 1.50
DISCCART 485024.23 3755640.51 1.50
DISCCART 485024.23 3755740.51 1.50
DISCCART 485024.23 3755840.51 1.50
DISCCART 485024.23 3755940.51 1.50
DISCCART 485024.23 3756040.51 1.50
DISCCART 485024.23 3756140.51 1.50
DISCCART 485024.23 3756240.51 1.50
DISCCART 485024.23 3756340.51 1.50
DISCCART 485024.23 3756440.51 1.50
DISCCART 485024.23 3756540.51 1.50
DISCCART 485024.23 3756640.51 1.50
DISCCART 485024.23 3756740.51 1.50
DISCCART 485024.23 3756840.51 1.50
DISCCART 485024.23 3756940.51 1.50
DISCCART 485024.23 3757040.51 1.50
DISCCART 485024.23 3757140.51 1.50
DISCCART 485024.23 3757240.51 1.50
DISCCART 485024.23 3757340.51 1.50
DISCCART 485024.23 3757440.51 1.50
DISCCART 485024.23 3757540.51 1.50
DISCCART 485024.23 3757640.51 1.50
DISCCART 485024.23 3757740.51 1.50
DISCCART 485024.23 3757840.51 1.50
DISCCART 485024.23 3757940.51 1.50
DISCCART 485024.23 3758040.51 1.50
DISCCART 485024.23 3758140.51 1.50
DISCCART 485024.23 3758240.51 1.50
DISCCART 485076.32 3755535.95 1.50
DISCCART 485093.69 3755634.43 1.50
DISCCART 485111.05 3755732.91 1.50
DISCCART 485128.42 3755831.39 1.50
DISCCART 485145.78 3755929.88 1.50
DISCCART 485163.15 3756028.36 1.50
DISCCART 485180.51 3756126.84 1.50
DISCCART 485197.88 3756225.32 1.50
DISCCART 485215.24 3756323.80 1.50
DISCCART 485232.61 3756422.28 1.50
DISCCART 485249.97 3756520.76 1.50
DISCCART 485267.34 3756619.24 1.50
DISCCART 485284.70 3756717.72 1.50
DISCCART 485302.07 3756816.20 1.50
DISCCART 485319.43 3756914.68 1.50
DISCCART 485336.80 3757013.16 1.50
DISCCART 485354.16 3757111.64 1.50
DISCCART 485371.53 3757210.13 1.50
DISCCART 485388.89 3757308.61 1.50
DISCCART 485406.26 3757407.09 1.50
DISCCART 485423.62 3757505.57 1.50
DISCCART 485440.99 3757604.05 1.50
DISCCART 485458.35 3757702.53 1.50
DISCCART 485475.72 3757801.01 1.50
DISCCART 485493.08 3757899.49 1.50
DISCCART 485510.44 3757997.97 1.50
DISCCART 485527.81 3758096.45 1.50
DISCCART 485545.17 3758194.93 1.50
DISCCART 485126.84 3755522.42 1.50
DISCCART 485161.04 3755616.39 1.50
DISCCART 485195.24 3755710.36 1.50
DISCCART 485229.44 3755804.33 1.50

DISCCART 485263.64 3755898.29 1.50
DISCCART 485297.85 3755992.26 1.50
DISCCART 485332.05 3756086.23 1.50
DISCCART 485366.25 3756180.20 1.50
DISCCART 485400.45 3756274.17 1.50
DISCCART 485434.65 3756368.14 1.50
DISCCART 485468.86 3756462.11 1.50
DISCCART 485503.06 3756556.08 1.50
DISCCART 485537.26 3756650.05 1.50
DISCCART 485571.46 3756744.02 1.50
DISCCART 485605.66 3756837.99 1.50
DISCCART 485639.87 3756931.96 1.50
DISCCART 485674.07 3757025.93 1.50
DISCCART 485708.27 3757119.90 1.50
DISCCART 485742.47 3757213.86 1.50
DISCCART 485776.67 3757307.83 1.50
DISCCART 485810.88 3757401.80 1.50
DISCCART 485845.08 3757495.77 1.50
DISCCART 485879.28 3757589.74 1.50
DISCCART 485913.48 3757683.71 1.50
DISCCART 485947.68 3757777.68 1.50
DISCCART 485981.89 3757871.65 1.50
DISCCART 486016.09 3757965.62 1.50
DISCCART 486050.29 3758059.59 1.50
DISCCART 485174.23 3755500.32 1.50
DISCCART 485224.23 3755586.92 1.50
DISCCART 485274.23 3755673.52 1.50
DISCCART 485324.23 3755760.13 1.50
DISCCART 485374.23 3755846.73 1.50
DISCCART 485424.23 3755933.33 1.50
DISCCART 485474.23 3756019.93 1.50
DISCCART 485524.23 3756106.54 1.50
DISCCART 485574.23 3756193.14 1.50
DISCCART 485624.23 3756279.74 1.50
DISCCART 485674.23 3756366.34 1.50
DISCCART 485724.23 3756452.95 1.50
DISCCART 485774.23 3756539.55 1.50
DISCCART 485824.23 3756626.15 1.50
DISCCART 485874.23 3756712.75 1.50
DISCCART 485924.23 3756799.36 1.50
DISCCART 485974.23 3756885.96 1.50
DISCCART 486024.23 3756972.56 1.50
DISCCART 486074.23 3757059.16 1.50
DISCCART 486124.23 3757145.77 1.50
DISCCART 486174.23 3757232.37 1.50
DISCCART 486224.23 3757318.97 1.50
DISCCART 486274.23 3757405.57 1.50
DISCCART 486324.23 3757492.18 1.50
DISCCART 486374.23 3757578.78 1.50
DISCCART 486424.23 3757665.38 1.50
DISCCART 486474.23 3757751.98 1.50
DISCCART 486524.23 3757838.59 1.50
DISCCART 485217.07 3755470.32 1.50
DISCCART 485281.35 3755546.93 1.50
DISCCART 485345.62 3755623.53 1.50
DISCCART 485409.90 3755700.14 1.50
DISCCART 485474.18 3755776.74 1.50
DISCCART 485538.46 3755853.35 1.50
DISCCART 485602.74 3755929.95 1.50
DISCCART 485667.02 3756006.55 1.50
DISCCART 485731.30 3756083.16 1.50
DISCCART 485795.58 3756159.76 1.50
DISCCART 485859.85 3756236.37 1.50
DISCCART 485924.13 3756312.97 1.50
DISCCART 485988.41 3756389.58 1.50
DISCCART 486052.69 3756466.18 1.50

DISCCART 486116.97 3756542.79 1.50
DISCCART 486181.25 3756619.39 1.50
DISCCART 486245.53 3756695.99 1.50
DISCCART 486309.81 3756772.60 1.50
DISCCART 486374.08 3756849.20 1.50
DISCCART 486438.36 3756925.81 1.50
DISCCART 486502.64 3757002.41 1.50
DISCCART 486566.92 3757079.02 1.50
DISCCART 486631.20 3757155.62 1.50
DISCCART 486695.48 3757232.23 1.50
DISCCART 486759.76 3757308.83 1.50
DISCCART 486824.04 3757385.43 1.50
DISCCART 486888.31 3757462.04 1.50
DISCCART 486952.59 3757538.64 1.50
DISCCART 485330.65 3755497.63 1.50
DISCCART 485407.25 3755561.90 1.50
DISCCART 485483.86 3755626.18 1.50
DISCCART 485560.46 3755690.46 1.50
DISCCART 485637.07 3755754.74 1.50
DISCCART 485713.67 3755819.02 1.50
DISCCART 485790.27 3755883.30 1.50
DISCCART 485866.88 3755947.58 1.50
DISCCART 485943.48 3756011.86 1.50
DISCCART 486020.09 3756076.13 1.50
DISCCART 486096.69 3756140.41 1.50
DISCCART 486173.30 3756204.69 1.50
DISCCART 486249.90 3756268.97 1.50
DISCCART 486326.51 3756333.25 1.50
DISCCART 486403.11 3756397.53 1.50
DISCCART 486479.71 3756461.81 1.50
DISCCART 486556.32 3756526.09 1.50
DISCCART 486632.92 3756590.36 1.50
DISCCART 486709.53 3756654.64 1.50
DISCCART 486786.13 3756718.92 1.50
DISCCART 486862.74 3756783.20 1.50
DISCCART 486939.34 3756847.48 1.50
DISCCART 487015.95 3756911.76 1.50
DISCCART 487092.55 3756976.04 1.50
DISCCART 487169.15 3757040.32 1.50
DISCCART 487245.76 3757104.59 1.50
DISCCART 487322.36 3757168.87 1.50
DISCCART 485457.24 3755490.51 1.50
DISCCART 485543.85 3755540.51 1.50
DISCCART 485630.45 3755590.51 1.50
DISCCART 485717.05 3755640.51 1.50
DISCCART 485803.65 3755690.51 1.50
DISCCART 485890.26 3755740.51 1.50
DISCCART 485976.86 3755790.51 1.50
DISCCART 486063.46 3755840.51 1.50
DISCCART 486150.06 3755890.51 1.50
DISCCART 486236.67 3755940.51 1.50
DISCCART 486323.27 3755990.51 1.50
DISCCART 486409.87 3756040.51 1.50
DISCCART 486496.47 3756090.51 1.50
DISCCART 486583.08 3756140.51 1.50
DISCCART 486669.68 3756190.51 1.50
DISCCART 486756.28 3756240.51 1.50
DISCCART 486842.88 3756290.51 1.50
DISCCART 486929.49 3756340.51 1.50
DISCCART 487016.09 3756390.51 1.50
DISCCART 487102.69 3756440.51 1.50
DISCCART 487189.29 3756490.51 1.50
DISCCART 487275.90 3756540.51 1.50
DISCCART 487362.50 3756590.51 1.50
DISCCART 487449.10 3756640.51 1.50
DISCCART 487535.70 3756690.51 1.50

DISCCART 487622.31 3756740.51 1.50
DISCCART 485400.11 3755377.32 1.50
DISCCART 485494.08 3755411.52 1.50
DISCCART 485268.92 3755001.94 1.50
DISCCART 485682.01 3755479.92 1.50
DISCCART 485775.98 3755514.13 1.50
DISCCART 485869.95 3755548.33 1.50
DISCCART 485963.92 3755582.53 1.50
DISCCART 486057.89 3755616.73 1.50
DISCCART 486151.86 3755650.93 1.50
DISCCART 486245.83 3755685.14 1.50
DISCCART 486339.80 3755719.34 1.50
DISCCART 486433.77 3755753.54 1.50
DISCCART 486527.74 3755787.74 1.50
DISCCART 486621.71 3755821.94 1.50
DISCCART 486715.68 3755856.15 1.50
DISCCART 486809.65 3755890.35 1.50
DISCCART 486903.62 3755924.55 1.50
DISCCART 486997.58 3755958.75 1.50
DISCCART 487091.55 3755992.95 1.50
DISCCART 487185.52 3756027.16 1.50
DISCCART 487279.49 3756061.36 1.50
DISCCART 487373.46 3756095.56 1.50
DISCCART 487467.43 3756129.76 1.50
DISCCART 487561.40 3756163.96 1.50
DISCCART 487655.37 3756198.17 1.50
DISCCART 487749.34 3756232.37 1.50
DISCCART 487843.31 3756266.57 1.50
DISCCART 485418.15 3755309.97 1.50
DISCCART 485615.11 3755344.70 1.50
DISCCART 485713.60 3755362.06 1.50
DISCCART 485812.08 3755379.43 1.50
DISCCART 485910.56 3755396.79 1.50
DISCCART 486009.04 3755414.16 1.50
DISCCART 486107.52 3755431.52 1.50
DISCCART 486206.00 3755448.89 1.50
DISCCART 486304.48 3755466.25 1.50
DISCCART 486402.96 3755483.62 1.50
DISCCART 486501.44 3755500.98 1.50
DISCCART 486599.92 3755518.35 1.50
DISCCART 486698.40 3755535.71 1.50
DISCCART 486796.88 3755553.08 1.50
DISCCART 486895.36 3755570.44 1.50
DISCCART 486993.85 3755587.81 1.50
DISCCART 487092.33 3755605.17 1.50
DISCCART 487190.81 3755622.54 1.50
DISCCART 487289.29 3755639.90 1.50
DISCCART 487387.77 3755657.27 1.50
DISCCART 487486.25 3755674.63 1.50
DISCCART 487584.73 3755692.00 1.50
DISCCART 487683.21 3755709.36 1.50
DISCCART 487781.69 3755726.72 1.50
DISCCART 487880.17 3755744.09 1.50
DISCCART 487978.65 3755761.45 1.50
DISCCART 485324.23 3755240.51 1.50
DISCCART 485424.23 3755240.51 1.50
DISCCART 485524.23 3755240.51 1.50
DISCCART 485624.23 3755240.51 1.50
DISCCART 485724.23 3755240.51 1.50
DISCCART 485824.23 3755240.51 1.50
DISCCART 485924.23 3755240.51 1.50
DISCCART 486024.23 3755240.51 1.50
DISCCART 486124.23 3755240.51 1.50
DISCCART 486224.23 3755240.51 1.50
DISCCART 486324.23 3755240.51 1.50
DISCCART 486424.23 3755240.51 1.50

DISCCART 486524.23 3755240.51 1.50
DISCCART 486624.23 3755240.51 1.50
DISCCART 486724.23 3755240.51 1.50
DISCCART 486824.23 3755240.51 1.50
DISCCART 486924.23 3755240.51 1.50
DISCCART 487024.23 3755240.51 1.50
DISCCART 487124.23 3755240.51 1.50
DISCCART 487224.23 3755240.51 1.50
DISCCART 487324.23 3755240.51 1.50
DISCCART 487424.23 3755240.51 1.50
DISCCART 487524.23 3755240.51 1.50
DISCCART 487624.23 3755240.51 1.50
DISCCART 487724.23 3755240.51 1.50
DISCCART 487824.23 3755240.51 1.50
DISCCART 487924.23 3755240.51 1.50
DISCCART 488024.23 3755240.51 1.50
DISCCART 485418.15 3755171.05 1.50
DISCCART 485615.11 3755136.32 1.50
DISCCART 485713.60 3755118.96 1.50
DISCCART 485812.08 3755101.59 1.50
DISCCART 485910.56 3755084.23 1.50
DISCCART 486009.04 3755066.86 1.50
DISCCART 486107.52 3755049.50 1.50
DISCCART 486206.00 3755032.13 1.50
DISCCART 486304.48 3755014.77 1.50
DISCCART 486402.96 3754997.40 1.50
DISCCART 486501.44 3754980.04 1.50
DISCCART 486599.92 3754962.67 1.50
DISCCART 486698.40 3754945.31 1.50
DISCCART 486796.88 3754927.94 1.50
DISCCART 486895.36 3754910.58 1.50
DISCCART 486993.85 3754893.21 1.50
DISCCART 487092.33 3754875.85 1.50
DISCCART 487190.81 3754858.48 1.50
DISCCART 487289.29 3754841.12 1.50
DISCCART 487387.77 3754823.75 1.50
DISCCART 487486.25 3754806.39 1.50
DISCCART 487584.73 3754789.02 1.50
DISCCART 487683.21 3754771.66 1.50
DISCCART 487781.69 3754754.30 1.50
DISCCART 487880.17 3754736.93 1.50
DISCCART 487978.65 3754719.57 1.50
DISCCART 485400.11 3755103.70 1.50
DISCCART 485494.08 3755069.50 1.50
DISCCART 485588.05 3755035.30 1.50
DISCCART 485682.01 3755001.10 1.50
DISCCART 485775.98 3754966.89 1.50
DISCCART 485869.95 3754932.69 1.50
DISCCART 485963.92 3754898.49 1.50
DISCCART 486057.89 3754864.29 1.50
DISCCART 486151.86 3754830.09 1.50
DISCCART 486245.83 3754795.88 1.50
DISCCART 486339.80 3754761.68 1.50
DISCCART 486433.77 3754727.48 1.50
DISCCART 486527.74 3754693.28 1.50
DISCCART 486621.71 3754659.08 1.50
DISCCART 486715.68 3754624.87 1.50
DISCCART 486809.65 3754590.67 1.50
DISCCART 486903.62 3754556.47 1.50
DISCCART 486997.58 3754522.27 1.50
DISCCART 487091.55 3754488.07 1.50
DISCCART 487185.52 3754453.86 1.50
DISCCART 487279.49 3754419.66 1.50
DISCCART 487373.46 3754385.46 1.50
DISCCART 487467.43 3754351.26 1.50
DISCCART 487561.40 3754317.06 1.50

DISCCART 487655.37 3754282.85 1.50
DISCCART 487749.34 3754248.65 1.50
DISCCART 487843.31 3754214.45 1.50
DISCCART 485457.24 3754990.51 1.50
DISCCART 485543.85 3754940.51 1.50
DISCCART 485630.45 3754890.51 1.50
DISCCART 485717.05 3754840.51 1.50
DISCCART 485803.65 3754790.51 1.50
DISCCART 485890.26 3754740.51 1.50
DISCCART 485976.86 3754690.51 1.50
DISCCART 486063.46 3754640.51 1.50
DISCCART 486150.06 3754590.51 1.50
DISCCART 486236.67 3754540.51 1.50
DISCCART 486323.27 3754490.51 1.50
DISCCART 486409.87 3754440.51 1.50
DISCCART 486496.47 3754390.51 1.50
DISCCART 486583.08 3754340.51 1.50
DISCCART 486669.68 3754290.51 1.50
DISCCART 486756.28 3754240.51 1.50
DISCCART 486842.88 3754190.51 1.50
DISCCART 486929.49 3754140.51 1.50
DISCCART 487016.09 3754090.51 1.50
DISCCART 487102.69 3754040.51 1.50
DISCCART 487189.29 3753990.51 1.50
DISCCART 487275.90 3753940.51 1.50
DISCCART 487362.50 3753890.51 1.50
DISCCART 487449.10 3753840.51 1.50
DISCCART 487535.70 3753790.51 1.50
DISCCART 487622.31 3753740.51 1.50
DISCCART 485330.65 3754983.39 1.50
DISCCART 485407.25 3754919.12 1.50
DISCCART 485483.86 3754854.84 1.50
DISCCART 485560.46 3754790.56 1.50
DISCCART 485637.07 3754726.28 1.50
DISCCART 485713.67 3754662.00 1.50
DISCCART 485790.27 3754597.72 1.50
DISCCART 485866.88 3754533.44 1.50
DISCCART 485943.48 3754469.16 1.50
DISCCART 486020.09 3754404.89 1.50
DISCCART 486096.69 3754340.61 1.50
DISCCART 486173.30 3754276.33 1.50
DISCCART 486249.90 3754212.05 1.50
DISCCART 486326.51 3754147.77 1.50
DISCCART 486403.11 3754083.49 1.50
DISCCART 486479.71 3754019.21 1.50
DISCCART 486556.32 3753954.93 1.50
DISCCART 486632.92 3753890.66 1.50
DISCCART 486709.53 3753826.38 1.50
DISCCART 486786.13 3753762.10 1.50
DISCCART 486862.74 3753697.82 1.50
DISCCART 486939.34 3753633.54 1.50
DISCCART 487015.95 3753569.26 1.50
DISCCART 487092.55 3753504.98 1.50
DISCCART 487169.15 3753440.70 1.50
DISCCART 487245.76 3753376.43 1.50
DISCCART 487322.36 3753312.15 1.50
DISCCART 485217.07 3755010.70 1.50
DISCCART 485281.35 3754934.09 1.50
DISCCART 485345.62 3754857.49 1.50
DISCCART 485409.90 3754780.88 1.50
DISCCART 485474.18 3754704.28 1.50
DISCCART 485538.46 3754627.67 1.50
DISCCART 485602.74 3754551.07 1.50
DISCCART 485667.02 3754474.47 1.50
DISCCART 485731.30 3754397.86 1.50
DISCCART 485795.58 3754321.26 1.50

DISCCART 485859.85 3754244.65 1.50
DISCCART 485924.13 3754168.05 1.50
DISCCART 485988.41 3754091.44 1.50
DISCCART 486052.69 3754014.84 1.50
DISCCART 486116.97 3753938.23 1.50
DISCCART 486181.25 3753861.63 1.50
DISCCART 486245.53 3753785.03 1.50
DISCCART 486309.81 3753708.42 1.50
DISCCART 486374.08 3753631.82 1.50
DISCCART 486438.36 3753555.21 1.50
DISCCART 486502.64 3753478.61 1.50
DISCCART 486566.92 3753402.00 1.50
DISCCART 486631.20 3753325.40 1.50
DISCCART 486695.48 3753248.79 1.50
DISCCART 486759.76 3753172.19 1.50
DISCCART 486824.04 3753095.59 1.50
DISCCART 486888.31 3753018.98 1.50
DISCCART 486952.59 3752942.38 1.50
DISCCART 485174.23 3754980.70 1.50
DISCCART 485224.23 3754894.10 1.50
DISCCART 485274.23 3754807.50 1.50
DISCCART 485324.23 3754720.89 1.50
DISCCART 485374.23 3754634.29 1.50
DISCCART 485424.23 3754547.69 1.50
DISCCART 485474.23 3754461.09 1.50
DISCCART 485524.23 3754374.48 1.50
DISCCART 485574.23 3754287.88 1.50
DISCCART 485624.23 3754201.28 1.50
DISCCART 485674.23 3754114.68 1.50
DISCCART 485724.23 3754028.07 1.50
DISCCART 485774.23 3753941.47 1.50
DISCCART 485824.23 3753854.87 1.50
DISCCART 485874.23 3753768.27 1.50
DISCCART 485924.23 3753681.66 1.50
DISCCART 485974.23 3753595.06 1.50
DISCCART 486024.23 3753508.46 1.50
DISCCART 486074.23 3753421.86 1.50
DISCCART 486124.23 3753335.25 1.50
DISCCART 486174.23 3753248.65 1.50
DISCCART 486224.23 3753162.05 1.50
DISCCART 486274.23 3753075.45 1.50
DISCCART 486324.23 3752988.84 1.50
DISCCART 486374.23 3752902.24 1.50
DISCCART 486424.23 3752815.64 1.50
DISCCART 486474.23 3752729.04 1.50
DISCCART 486524.23 3752642.43 1.50
DISCCART 485126.84 3754958.60 1.50
DISCCART 485161.04 3754864.63 1.50
DISCCART 485195.24 3754770.66 1.50
DISCCART 485229.44 3754676.69 1.50
DISCCART 485263.64 3754582.73 1.50
DISCCART 485297.85 3754488.76 1.50
DISCCART 485332.05 3754394.79 1.50
DISCCART 485366.25 3754300.82 1.50
DISCCART 485400.45 3754206.85 1.50
DISCCART 485434.65 3754112.88 1.50
DISCCART 485468.86 3754018.91 1.50
DISCCART 485503.06 3753924.94 1.50
DISCCART 485537.26 3753830.97 1.50
DISCCART 485571.46 3753737.00 1.50
DISCCART 485605.66 3753643.03 1.50
DISCCART 485639.87 3753549.06 1.50
DISCCART 485674.07 3753455.09 1.50
DISCCART 485708.27 3753361.12 1.50
DISCCART 485742.47 3753267.16 1.50
DISCCART 485776.67 3753173.19 1.50

DISCCART 485810.88 3753079.22 1.50
DISCCART 485845.08 3752985.25 1.50
DISCCART 485879.28 3752891.28 1.50
DISCCART 485913.48 3752797.31 1.50
DISCCART 485947.68 3752703.34 1.50
DISCCART 485981.89 3752609.37 1.50
DISCCART 486016.09 3752515.40 1.50
DISCCART 486050.29 3752421.43 1.50
DISCCART 485076.32 3754945.07 1.50
DISCCART 485093.69 3754846.59 1.50
DISCCART 485111.05 3754748.11 1.50
DISCCART 485128.42 3754649.63 1.50
DISCCART 485145.78 3754551.14 1.50
DISCCART 485163.15 3754452.66 1.50
DISCCART 485180.51 3754354.18 1.50
DISCCART 485197.88 3754255.70 1.50
DISCCART 485215.24 3754157.22 1.50
DISCCART 485232.61 3754058.74 1.50
DISCCART 485249.97 3753960.26 1.50
DISCCART 485267.34 3753861.78 1.50
DISCCART 485284.70 3753763.30 1.50
DISCCART 485302.07 3753664.82 1.50
DISCCART 485319.43 3753566.34 1.50
DISCCART 485336.80 3753467.86 1.50
DISCCART 485354.16 3753369.38 1.50
DISCCART 485371.53 3753270.89 1.50
DISCCART 485388.89 3753172.41 1.50
DISCCART 485406.26 3753073.93 1.50
DISCCART 485423.62 3752975.45 1.50
DISCCART 485440.99 3752876.97 1.50
DISCCART 485458.35 3752778.49 1.50
DISCCART 485475.72 3752680.01 1.50
DISCCART 485493.08 3752581.53 1.50
DISCCART 485510.44 3752483.05 1.50
DISCCART 485527.81 3752384.57 1.50
DISCCART 485545.17 3752286.09 1.50
DISCCART 485024.23 3754940.51 1.50
DISCCART 485024.23 3754840.51 1.50
DISCCART 485024.23 3754740.51 1.50
DISCCART 485024.23 3754640.51 1.50
DISCCART 485024.23 3754540.51 1.50
DISCCART 485024.23 3754440.51 1.50
DISCCART 485024.23 3754340.51 1.50
DISCCART 485024.23 3754240.51 1.50
DISCCART 485024.23 3754140.51 1.50
DISCCART 485024.23 3754040.51 1.50
DISCCART 485024.23 3753940.51 1.50
DISCCART 485024.23 3753840.51 1.50
DISCCART 485024.23 3753740.51 1.50
DISCCART 485024.23 3753640.51 1.50
DISCCART 485024.23 3753540.51 1.50
DISCCART 485024.23 3753440.51 1.50
DISCCART 485024.23 3753340.51 1.50
DISCCART 485024.23 3753240.51 1.50
DISCCART 485024.23 3753140.51 1.50
DISCCART 485024.23 3753040.51 1.50
DISCCART 485024.23 3752940.51 1.50
DISCCART 485024.23 3752840.51 1.50
DISCCART 485024.23 3752740.51 1.50
DISCCART 485024.23 3752640.51 1.50
DISCCART 485024.23 3752540.51 1.50
DISCCART 485024.23 3752440.51 1.50
DISCCART 485024.23 3752340.51 1.50
DISCCART 485024.23 3752240.51 1.50
DISCCART 484972.14 3754945.07 1.50
DISCCART 484954.77 3754846.59 1.50

DISCCART 484937.41 3754748.11 1.50
DISCCART 484920.04 3754649.63 1.50
DISCCART 484902.68 3754551.14 1.50
DISCCART 484885.31 3754452.66 1.50
DISCCART 484867.95 3754354.18 1.50
DISCCART 484850.58 3754255.70 1.50
DISCCART 484833.22 3754157.22 1.50
DISCCART 484815.85 3754058.74 1.50
DISCCART 484798.49 3753960.26 1.50
DISCCART 484781.12 3753861.78 1.50
DISCCART 484763.76 3753763.30 1.50
DISCCART 484746.39 3753664.82 1.50
DISCCART 484729.03 3753566.34 1.50
DISCCART 484711.66 3753467.86 1.50
DISCCART 484694.30 3753369.38 1.50
DISCCART 484676.93 3753270.89 1.50
DISCCART 484659.57 3753172.41 1.50
DISCCART 484642.20 3753073.93 1.50
DISCCART 484624.84 3752975.45 1.50
DISCCART 484607.47 3752876.97 1.50
DISCCART 484590.11 3752778.49 1.50
DISCCART 484572.74 3752680.01 1.50
DISCCART 484555.38 3752581.53 1.50
DISCCART 484538.02 3752483.05 1.50
DISCCART 484520.65 3752384.57 1.50
DISCCART 484503.29 3752286.09 1.50
DISCCART 484921.62 3754958.60 1.50
DISCCART 484887.42 3754864.63 1.50
DISCCART 484853.22 3754770.66 1.50
DISCCART 484819.02 3754676.69 1.50
DISCCART 484784.82 3754582.73 1.50
DISCCART 484750.61 3754488.76 1.50
DISCCART 484716.41 3754394.79 1.50
DISCCART 484682.21 3754300.82 1.50
DISCCART 484648.01 3754206.85 1.50
DISCCART 484613.81 3754112.88 1.50
DISCCART 484579.60 3754018.91 1.50
DISCCART 484545.40 3753924.94 1.50
DISCCART 484511.20 3753830.97 1.50
DISCCART 484477.00 3753737.00 1.50
DISCCART 484442.80 3753643.03 1.50
DISCCART 484408.59 3753549.06 1.50
DISCCART 484374.39 3753455.09 1.50
DISCCART 484340.19 3753361.12 1.50
DISCCART 484305.99 3753267.16 1.50
DISCCART 484271.79 3753173.19 1.50
DISCCART 484237.58 3753079.22 1.50
DISCCART 484203.38 3752985.25 1.50
DISCCART 484169.18 3752891.28 1.50
DISCCART 484134.98 3752797.31 1.50
DISCCART 484100.78 3752703.34 1.50
DISCCART 484066.57 3752609.37 1.50
DISCCART 484032.37 3752515.40 1.50
DISCCART 483998.17 3752421.43 1.50
DISCCART 484874.23 3754980.70 1.50
DISCCART 484824.23 3754894.10 1.50
DISCCART 484774.23 3754807.50 1.50
DISCCART 484724.23 3754720.89 1.50
DISCCART 484674.23 3754634.29 1.50
DISCCART 484624.23 3754547.69 1.50
DISCCART 484574.23 3754461.09 1.50
DISCCART 484524.23 3754374.48 1.50
DISCCART 484474.23 3754287.88 1.50
DISCCART 484424.23 3754201.28 1.50
DISCCART 484374.23 3754114.68 1.50
DISCCART 484324.23 3754028.07 1.50

DISCCART 484274.23 3753941.47 1.50
DISCCART 484224.23 3753854.87 1.50
DISCCART 484174.23 3753768.27 1.50
DISCCART 484124.23 3753681.66 1.50
DISCCART 484074.23 3753595.06 1.50
DISCCART 484024.23 3753508.46 1.50
DISCCART 483974.23 3753421.86 1.50
DISCCART 483924.23 3753335.25 1.50
DISCCART 483874.23 3753248.65 1.50
DISCCART 483824.23 3753162.05 1.50
DISCCART 483774.23 3753075.45 1.50
DISCCART 483724.23 3752988.84 1.50
DISCCART 483674.23 3752902.24 1.50
DISCCART 483624.23 3752815.64 1.50
DISCCART 483574.23 3752729.04 1.50
DISCCART 483524.23 3752642.43 1.50
DISCCART 484767.11 3754934.09 1.50
DISCCART 484702.84 3754857.49 1.50
DISCCART 484638.56 3754780.88 1.50
DISCCART 484574.28 3754704.28 1.50
DISCCART 484510.00 3754627.67 1.50
DISCCART 484445.72 3754551.07 1.50
DISCCART 484381.44 3754474.47 1.50
DISCCART 484317.16 3754397.86 1.50
DISCCART 484252.88 3754321.26 1.50
DISCCART 484188.61 3754244.65 1.50
DISCCART 484124.33 3754168.05 1.50
DISCCART 484060.05 3754091.44 1.50
DISCCART 483995.77 3754014.84 1.50
DISCCART 483931.49 3753938.23 1.50
DISCCART 483867.21 3753861.63 1.50
DISCCART 483802.93 3753785.03 1.50
DISCCART 483738.65 3753708.42 1.50
DISCCART 483674.38 3753631.82 1.50
DISCCART 483610.10 3753555.21 1.50
DISCCART 483545.82 3753478.61 1.50
DISCCART 483481.54 3753402.00 1.50
DISCCART 483417.26 3753325.40 1.50
DISCCART 483352.98 3753248.79 1.50
DISCCART 483288.70 3753172.19 1.50
DISCCART 483224.42 3753095.59 1.50
DISCCART 483160.15 3753018.98 1.50
DISCCART 483095.87 3752942.38 1.50
DISCCART 484717.81 3754983.39 1.50
DISCCART 484641.21 3754919.12 1.50
DISCCART 484564.60 3754854.84 1.50
DISCCART 484488.00 3754790.56 1.50
DISCCART 484411.39 3754726.28 1.50
DISCCART 484334.79 3754662.00 1.50
DISCCART 484258.19 3754597.72 1.50
DISCCART 484181.58 3754533.44 1.50
DISCCART 484104.98 3754469.16 1.50
DISCCART 484028.37 3754404.89 1.50
DISCCART 483951.77 3754340.61 1.50
DISCCART 483875.16 3754276.33 1.50
DISCCART 483798.56 3754212.05 1.50
DISCCART 483721.95 3754147.77 1.50
DISCCART 483645.35 3754083.49 1.50
DISCCART 483568.75 3754019.21 1.50
DISCCART 483492.14 3753954.93 1.50
DISCCART 483415.54 3753890.66 1.50
DISCCART 483338.93 3753826.38 1.50
DISCCART 483262.33 3753762.10 1.50
DISCCART 483185.72 3753697.82 1.50
DISCCART 483109.12 3753633.54 1.50
DISCCART 483032.51 3753569.26 1.50

DISCCART 482955.91 3753504.98 1.50
DISCCART 482879.31 3753440.70 1.50
DISCCART 482802.70 3753376.43 1.50
DISCCART 482726.10 3753312.15 1.50
DISCCART 484677.82 3755040.51 1.50
DISCCART 484591.22 3754990.51 1.50
DISCCART 484504.61 3754940.51 1.50
DISCCART 484418.01 3754890.51 1.50
DISCCART 484331.41 3754840.51 1.50
DISCCART 484244.81 3754790.51 1.50
DISCCART 484158.20 3754740.51 1.50
DISCCART 484071.60 3754690.51 1.50
DISCCART 483985.00 3754640.51 1.50
DISCCART 483898.40 3754590.51 1.50
DISCCART 483811.79 3754540.51 1.50
DISCCART 483725.19 3754490.51 1.50
DISCCART 483638.59 3754440.51 1.50
DISCCART 483551.99 3754390.51 1.50
DISCCART 483465.38 3754340.51 1.50
DISCCART 483378.78 3754290.51 1.50
DISCCART 483292.18 3754240.51 1.50
DISCCART 483205.58 3754190.51 1.50
DISCCART 483118.97 3754140.51 1.50
DISCCART 483032.37 3754090.51 1.50
DISCCART 482945.77 3754040.51 1.50
DISCCART 482859.17 3753990.51 1.50
DISCCART 482772.56 3753940.51 1.50
DISCCART 482685.96 3753890.51 1.50
DISCCART 482599.36 3753840.51 1.50
DISCCART 482512.76 3753790.51 1.50
DISCCART 482426.15 3753740.51 1.50
DISCCART 484648.35 3755103.70 1.50
DISCCART 484554.38 3755069.50 1.50
DISCCART 484460.41 3755035.30 1.50
DISCCART 484366.45 3755001.10 1.50
DISCCART 484272.48 3754966.89 1.50
DISCCART 484178.51 3754932.69 1.50
DISCCART 484084.54 3754898.49 1.50
DISCCART 483990.57 3754864.29 1.50
DISCCART 483896.60 3754830.09 1.50
DISCCART 483802.63 3754795.88 1.50
DISCCART 483708.66 3754761.68 1.50
DISCCART 483614.69 3754727.48 1.50
DISCCART 483520.72 3754693.28 1.50
DISCCART 483426.75 3754659.08 1.50
DISCCART 483332.78 3754624.87 1.50
DISCCART 483238.81 3754590.67 1.50
DISCCART 483144.84 3754556.47 1.50
DISCCART 483050.88 3754522.27 1.50
DISCCART 482956.91 3754488.07 1.50
DISCCART 482862.94 3754453.86 1.50
DISCCART 482768.97 3754419.66 1.50
DISCCART 482675.00 3754385.46 1.50
DISCCART 482581.03 3754351.26 1.50
DISCCART 482487.06 3754317.06 1.50
DISCCART 482393.09 3754282.85 1.50
DISCCART 482299.12 3754248.65 1.50
DISCCART 482205.15 3754214.45 1.50
DISCCART 484630.31 3755171.05 1.50
DISCCART 484531.83 3755153.69 1.50
DISCCART 484433.35 3755136.32 1.50
DISCCART 484334.86 3755118.96 1.50
DISCCART 484236.38 3755101.59 1.50
DISCCART 484137.90 3755084.23 1.50
DISCCART 484039.42 3755066.86 1.50
DISCCART 483940.94 3755049.50 1.50

DISCCART 483842.46 3755032.13 1.50
DISCCART 483743.98 3755014.77 1.50
DISCCART 483645.50 3754997.40 1.50
DISCCART 483547.02 3754980.04 1.50
DISCCART 483448.54 3754962.67 1.50
DISCCART 483350.06 3754945.31 1.50
DISCCART 483251.58 3754927.94 1.50
DISCCART 483153.10 3754910.58 1.50
DISCCART 483054.61 3754893.21 1.50
DISCCART 482956.13 3754875.85 1.50
DISCCART 482857.65 3754858.48 1.50
DISCCART 482759.17 3754841.12 1.50
DISCCART 482660.69 3754823.75 1.50
DISCCART 482562.21 3754806.39 1.50
DISCCART 482463.73 3754789.02 1.50
DISCCART 482365.25 3754771.66 1.50
DISCCART 482266.77 3754754.30 1.50
DISCCART 482168.29 3754736.93 1.50
DISCCART 482069.81 3754719.57 1.50
DISCCART 484624.23 3755240.51 1.50
DISCCART 484524.23 3755240.51 1.50
DISCCART 484424.23 3755240.51 1.50
DISCCART 484324.23 3755240.51 1.50
DISCCART 484224.23 3755240.51 1.50
DISCCART 484124.23 3755240.51 1.50
DISCCART 484024.23 3755240.51 1.50
DISCCART 483924.23 3755240.51 1.50
DISCCART 483824.23 3755240.51 1.50
DISCCART 483724.23 3755240.51 1.50
DISCCART 483624.23 3755240.51 1.50
DISCCART 485270.07 3754972.73 1.50
DISCCART 483424.23 3755240.51 1.50
DISCCART 483324.23 3755240.51 1.50
DISCCART 483224.23 3755240.51 1.50
DISCCART 483124.23 3755240.51 1.50
DISCCART 483024.23 3755240.51 1.50
DISCCART 482924.23 3755240.51 1.50
DISCCART 482824.23 3755240.51 1.50
DISCCART 482724.23 3755240.51 1.50
DISCCART 482624.23 3755240.51 1.50
DISCCART 482524.23 3755240.51 1.50
DISCCART 482424.23 3755240.51 1.50
DISCCART 482324.23 3755240.51 1.50
DISCCART 482224.23 3755240.51 1.50
DISCCART 482124.23 3755240.51 1.50
DISCCART 482024.23 3755240.51 1.50
DISCCART 484630.31 3755309.97 1.50
DISCCART 484531.83 3755327.33 1.50
DISCCART 484433.35 3755344.70 1.50
DISCCART 484334.86 3755362.06 1.50
DISCCART 484236.38 3755379.43 1.50
DISCCART 484137.90 3755396.79 1.50
DISCCART 484039.42 3755414.16 1.50
DISCCART 483940.94 3755431.52 1.50
DISCCART 485244.81 3754972.80 1.50
DISCCART 483743.98 3755466.25 1.50
DISCCART 483645.50 3755483.62 1.50
DISCCART 483547.02 3755500.98 1.50
DISCCART 483448.54 3755518.35 1.50
DISCCART 483350.06 3755535.71 1.50
DISCCART 483251.58 3755553.08 1.50
DISCCART 483153.10 3755570.44 1.50
DISCCART 483054.61 3755587.81 1.50
DISCCART 482956.13 3755605.17 1.50
DISCCART 482857.65 3755622.54 1.50
DISCCART 482759.17 3755639.90 1.50

DISCCART 482660.69 3755657.27 1.50
DISCCART 482562.21 3755674.63 1.50
DISCCART 482463.73 3755692.00 1.50
DISCCART 482365.25 3755709.36 1.50
DISCCART 482266.77 3755726.72 1.50
DISCCART 482168.29 3755744.09 1.50
DISCCART 482069.81 3755761.45 1.50
DISCCART 484648.35 3755377.32 1.50
DISCCART 484554.38 3755411.52 1.50
DISCCART 485246.73 3755001.74 1.50
DISCCART 484366.45 3755479.92 1.50
DISCCART 484272.48 3755514.13 1.50
DISCCART 484178.51 3755548.33 1.50
DISCCART 484084.54 3755582.53 1.50
DISCCART 483990.57 3755616.73 1.50
DISCCART 483896.60 3755650.93 1.50
DISCCART 483802.63 3755685.14 1.50
DISCCART 483708.66 3755719.34 1.50
DISCCART 483614.69 3755753.54 1.50
DISCCART 483520.72 3755787.74 1.50
DISCCART 483426.75 3755821.94 1.50
DISCCART 483332.78 3755856.15 1.50
DISCCART 483238.81 3755890.35 1.50
DISCCART 483144.84 3755924.55 1.50
DISCCART 483050.88 3755958.75 1.50
DISCCART 482956.91 3755992.95 1.50
DISCCART 482862.94 3756027.16 1.50
DISCCART 482768.97 3756061.36 1.50
DISCCART 482675.00 3756095.56 1.50
DISCCART 482581.03 3756129.76 1.50
DISCCART 482487.06 3756163.96 1.50
DISCCART 482393.09 3756198.17 1.50
DISCCART 482299.12 3756232.37 1.50
DISCCART 482205.15 3756266.57 1.50
DISCCART 484591.22 3755490.51 1.50
DISCCART 484504.61 3755540.51 1.50
DISCCART 484418.01 3755590.51 1.50
DISCCART 484331.41 3755640.51 1.50
DISCCART 484244.81 3755690.51 1.50
DISCCART 484158.20 3755740.51 1.50
DISCCART 484071.60 3755790.51 1.50
DISCCART 483985.00 3755840.51 1.50
DISCCART 483898.40 3755890.51 1.50
DISCCART 483811.79 3755940.51 1.50
DISCCART 483725.19 3755990.51 1.50
DISCCART 483638.59 3756040.51 1.50
DISCCART 483551.99 3756090.51 1.50
DISCCART 483465.38 3756140.51 1.50
DISCCART 483378.78 3756190.51 1.50
DISCCART 483292.18 3756240.51 1.50
DISCCART 483205.58 3756290.51 1.50
DISCCART 483118.97 3756340.51 1.50
DISCCART 483032.37 3756390.51 1.50
DISCCART 482945.77 3756440.51 1.50
DISCCART 482859.17 3756490.51 1.50
DISCCART 482772.56 3756540.51 1.50
DISCCART 482685.96 3756590.51 1.50
DISCCART 482599.36 3756640.51 1.50
DISCCART 482512.76 3756690.51 1.50
DISCCART 482426.15 3756740.51 1.50
DISCCART 484717.81 3755497.63 1.50
DISCCART 484641.21 3755561.90 1.50
DISCCART 484564.60 3755626.18 1.50
DISCCART 484488.00 3755690.46 1.50
DISCCART 484411.39 3755754.74 1.50
DISCCART 484334.79 3755819.02 1.50

DISCCART 484258.19 3755883.30 1.50
DISCCART 484181.58 3755947.58 1.50
DISCCART 484104.98 3756011.86 1.50
DISCCART 484028.37 3756076.13 1.50
DISCCART 483951.77 3756140.41 1.50
DISCCART 483875.16 3756204.69 1.50
DISCCART 483798.56 3756268.97 1.50
DISCCART 483721.95 3756333.25 1.50
DISCCART 483645.35 3756397.53 1.50
DISCCART 483568.75 3756461.81 1.50
DISCCART 483492.14 3756526.09 1.50
DISCCART 483415.54 3756590.36 1.50
DISCCART 483338.93 3756654.64 1.50
DISCCART 483262.33 3756718.92 1.50
DISCCART 483185.72 3756783.20 1.50
DISCCART 483109.12 3756847.48 1.50
DISCCART 483032.51 3756911.76 1.50
DISCCART 482955.91 3756976.04 1.50
DISCCART 482879.31 3757040.32 1.50
DISCCART 482802.70 3757104.59 1.50
DISCCART 482726.10 3757168.87 1.50
DISCCART 484831.39 3755470.32 1.50
DISCCART 484767.11 3755546.93 1.50
DISCCART 484702.84 3755623.53 1.50
DISCCART 484638.56 3755700.14 1.50
DISCCART 484574.28 3755776.74 1.50
DISCCART 484510.00 3755853.35 1.50
DISCCART 484445.72 3755929.95 1.50
DISCCART 484381.44 3756006.55 1.50
DISCCART 484317.16 3756083.16 1.50
DISCCART 484252.88 3756159.76 1.50
DISCCART 484188.61 3756236.37 1.50
DISCCART 484124.33 3756312.97 1.50
DISCCART 484060.05 3756389.58 1.50
DISCCART 483995.77 3756466.18 1.50
DISCCART 483931.49 3756542.79 1.50
DISCCART 483867.21 3756619.39 1.50
DISCCART 483802.93 3756695.99 1.50
DISCCART 483738.65 3756772.60 1.50
DISCCART 483674.38 3756849.20 1.50
DISCCART 483610.10 3756925.81 1.50
DISCCART 483545.82 3757002.41 1.50
DISCCART 483481.54 3757079.02 1.50
DISCCART 483417.26 3757155.62 1.50
DISCCART 483352.98 3757232.23 1.50
DISCCART 483288.70 3757308.83 1.50
DISCCART 483224.42 3757385.43 1.50
DISCCART 483160.15 3757462.04 1.50
DISCCART 483095.87 3757538.64 1.50
DISCCART 484874.23 3755500.32 1.50
DISCCART 484824.23 3755586.92 1.50
DISCCART 484774.23 3755673.52 1.50
DISCCART 484724.23 3755760.13 1.50
DISCCART 484674.23 3755846.73 1.50
DISCCART 484624.23 3755933.33 1.50
DISCCART 484574.23 3756019.93 1.50
DISCCART 484524.23 3756106.54 1.50
DISCCART 484474.23 3756193.14 1.50
DISCCART 484424.23 3756279.74 1.50
DISCCART 484374.23 3756366.34 1.50
DISCCART 484324.23 3756452.95 1.50
DISCCART 484274.23 3756539.55 1.50
DISCCART 484224.23 3756626.15 1.50
DISCCART 484174.23 3756712.75 1.50
DISCCART 484124.23 3756799.36 1.50
DISCCART 484074.23 3756885.96 1.50

DISCCART 484024.23 3756972.56 1.50
DISCCART 483974.23 3757059.16 1.50
DISCCART 483924.23 3757145.77 1.50
DISCCART 483874.23 3757232.37 1.50
DISCCART 483824.23 3757318.97 1.50
DISCCART 483774.23 3757405.57 1.50
DISCCART 483724.23 3757492.18 1.50
DISCCART 483674.23 3757578.78 1.50
DISCCART 483624.23 3757665.38 1.50
DISCCART 483574.23 3757751.98 1.50
DISCCART 483524.23 3757838.59 1.50
DISCCART 484921.62 3755522.42 1.50
DISCCART 484887.42 3755616.39 1.50
DISCCART 484853.22 3755710.36 1.50
DISCCART 484819.02 3755804.33 1.50
DISCCART 484784.82 3755898.29 1.50
DISCCART 484750.61 3755992.26 1.50
DISCCART 484716.41 3756086.23 1.50
DISCCART 484682.21 3756180.20 1.50
DISCCART 484648.01 3756274.17 1.50
DISCCART 484613.81 3756368.14 1.50
DISCCART 484579.60 3756462.11 1.50
DISCCART 484545.40 3756556.08 1.50
DISCCART 484511.20 3756650.05 1.50
DISCCART 484477.00 3756744.02 1.50
DISCCART 484442.80 3756837.99 1.50
DISCCART 484408.59 3756931.96 1.50
DISCCART 484374.39 3757025.93 1.50
DISCCART 484340.19 3757119.90 1.50
DISCCART 484305.99 3757213.86 1.50
DISCCART 484271.79 3757307.83 1.50
DISCCART 484237.58 3757401.80 1.50
DISCCART 484203.38 3757495.77 1.50
DISCCART 484169.18 3757589.74 1.50
DISCCART 484134.98 3757683.71 1.50
DISCCART 484100.78 3757777.68 1.50
DISCCART 484066.57 3757871.65 1.50
DISCCART 484032.37 3757965.62 1.50
DISCCART 483998.17 3758059.59 1.50
DISCCART 484972.14 3755535.95 1.50
DISCCART 484954.77 3755634.43 1.50
DISCCART 484937.41 3755732.91 1.50
DISCCART 484920.04 3755831.39 1.50
DISCCART 484902.68 3755929.88 1.50
DISCCART 484885.31 3756028.36 1.50
DISCCART 484867.95 3756126.84 1.50
DISCCART 484850.58 3756225.32 1.50
DISCCART 484833.22 3756323.80 1.50
DISCCART 484815.85 3756422.28 1.50
DISCCART 484798.49 3756520.76 1.50
DISCCART 484781.12 3756619.24 1.50
DISCCART 484763.76 3756717.72 1.50
DISCCART 484746.39 3756816.20 1.50
DISCCART 484729.03 3756914.68 1.50
DISCCART 484711.66 3757013.16 1.50
DISCCART 484694.30 3757111.64 1.50
DISCCART 484676.93 3757210.13 1.50
DISCCART 484659.57 3757308.61 1.50
DISCCART 484642.20 3757407.09 1.50
DISCCART 484624.84 3757505.57 1.50
DISCCART 484607.47 3757604.05 1.50
DISCCART 484590.11 3757702.53 1.50
DISCCART 484572.74 3757801.01 1.50
DISCCART 484555.38 3757899.49 1.50
DISCCART 484538.02 3757997.97 1.50
DISCCART 484520.65 3758096.45 1.50

```

DISCCART 484503.29 3758194.93 1.50
RE FINISHED
**
*****
** ISCS3 Meteorology Pathway
*****
**
ME STARTING
INPUTFIL U:\UcAir\METDAT~1\REDLANDS.ASC
ANEMHGHT 10 METERS
SURFDATA 54161 1981
UAIRDATA 99999 1981
ME FINISHED
**
*****
** ISCS3 Output Pathway
*****
**
OU STARTING
** Auto-Generated Plotfiles
PLOTFILE ANNUAL.ALL WORKER.IS\AN00GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

```

```

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05
**MODELOPTS:
CONC URBAN FLAT FLGPOL NOCALM NOCMPL
PAGE 1
*****
*** MODEL SETUP OPTIONS SUMMARY ***
-----
**Simple Terrain Model is Selected

**Model Is Setup For Calculation of Average CONcentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Not Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Assumes Receptors on FLAT Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes: 156 Source(s); 1 Source Group(s); and 985 Receptor(s)

**The Model Assumes A Pollutant Type of: DPM

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 1.4 MB of RAM.

**Input Runstream File: WORKER.INP
**Output Print File: WORKER.OUT

```

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 2
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. EMISSION RATE
SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) BY

L0001206	0	0.57600E-06	485514.0	3755433.5	0.0	4.00	12.43	1.86	HROFDY
L0001207	0	0.57600E-06	485514.0	3755406.8	0.0	4.00	12.43	1.86	HROFDY
L0001208	0	0.57600E-06	485513.9	3755380.0	0.0	4.00	12.43	1.86	HROFDY
L0001209	0	0.57600E-06	485513.8	3755353.3	0.0	4.00	12.43	1.86	HROFDY
L0001210	0	0.57600E-06	485513.8	3755326.5	0.0	4.00	12.43	1.86	HROFDY
L0001211	0	0.57600E-06	485513.7	3755299.8	0.0	4.00	12.43	1.86	HROFDY
L0001212	0	0.57600E-06	485513.6	3755273.0	0.0	4.00	12.43	1.86	HROFDY
L0001213	0	0.57600E-06	485513.5	3755246.3	0.0	4.00	12.43	1.86	HROFDY
L0001214	0	0.57600E-06	485513.4	3755219.6	0.0	4.00	12.43	1.86	HROFDY
L0001215	0	0.57600E-06	485513.4	3755193.0	0.0	4.00	12.43	1.86	HROFDY
L0001216	0	0.57600E-06	485513.3	3755166.3	0.0	4.00	12.43	1.86	HROFDY
L0001217	0	0.57600E-06	485513.2	3755139.5	0.0	4.00	12.43	1.86	HROFDY
L0001218	0	0.57600E-06	485513.2	3755112.8	0.0	4.00	12.43	1.86	HROFDY
L0001219	0	0.57600E-06	485513.1	3755086.0	0.0	4.00	12.43	1.86	HROFDY
L0001220	0	0.57600E-06	485513.0	3755059.3	0.0	4.00	12.43	1.86	HROFDY
L0001221	0	0.57600E-06	485512.9	3755032.5	0.0	4.00	12.43	1.86	HROFDY
L0001222	0	0.57600E-06	485494.2	3755025.5	0.0	4.00	11.94	1.86	HROFDY
L0001223	0	0.57600E-06	485468.5	3755025.5	0.0	4.00	11.94	1.86	HROFDY
L0001224	0	0.57600E-06	485442.9	3755025.8	0.0	4.00	11.94	1.86	HROFDY
L0001225	0	0.57600E-06	485417.2	3755025.8	0.0	4.00	11.94	1.86	HROFDY
L0001226	0	0.57600E-06	485391.5	3755025.8	0.0	4.00	11.94	1.86	HROFDY
L0001227	0	0.57600E-06	485365.8	3755025.8	0.0	4.00	11.94	1.86	HROFDY
L0001228	0	0.57600E-06	485340.2	3755025.8	0.0	4.00	11.94	1.86	HROFDY
L0001229	0	0.57600E-06	485314.5	3755026.0	0.0	4.00	11.94	1.86	HROFDY
L0001230	0	0.57600E-06	485288.8	3755026.0	0.0	4.00	11.94	1.86	HROFDY
L0001231	0	0.62000E-06	485265.3	3755112.8	0.0	4.00	7.15	1.86	HROFDY
L0001232	0	0.62000E-06	485249.9	3755113.0	0.0	4.00	7.15	1.86	HROFDY
L0001233	0	0.62000E-06	485234.5	3755113.0	0.0	4.00	7.15	1.86	HROFDY
L0001234	0	0.62000E-06	485219.2	3755113.0	0.0	4.00	7.15	1.86	HROFDY
L0001235	0	0.62000E-06	485203.8	3755113.3	0.0	4.00	7.15	1.86	HROFDY
L0001236	0	0.64200E-06	485281.9	3755043.8	0.0	4.00	7.53	1.86	HROFDY
L0001237	0	0.64200E-06	485281.7	3755060.0	0.0	4.00	7.53	1.86	HROFDY
L0001238	0	0.64200E-06	485281.4	3755076.3	0.0	4.00	7.53	1.86	HROFDY
L0001239	0	0.64200E-06	485281.3	3755092.3	0.0	4.00	7.53	1.86	HROFDY
L0001240	0	0.64200E-06	485281.0	3755108.5	0.0	4.00	7.53	1.86	HROFDY
L0001241	0	0.74737E-06	485280.8	3755119.8	0.0	4.00	8.82	1.86	HROFDY
L0001242	0	0.74737E-06	485280.0	3755138.8	0.0	4.00	8.82	1.86	HROFDY
L0001243	0	0.74737E-06	485279.3	3755157.8	0.0	4.00	8.82	1.86	HROFDY
L0001244	0	0.74737E-06	485278.4	3755176.5	0.0	4.00	8.82	1.86	HROFDY
L0001245	0	0.74737E-06	485277.7	3755195.5	0.0	4.00	8.82	1.86	HROFDY

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 3
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. EMISSION RATE
SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) BY

L0001246	0	0.74737E-06	485276.9	3755214.5	0.0	4.00	8.82	1.86	HROFDY
L0001247	0	0.74737E-06	485276.1	3755233.5	0.0	4.00	8.82	1.86	HROFDY
L0001248	0	0.74737E-06	485275.3	3755252.3	0.0	4.00	8.82	1.86	HROFDY
L0001249	0	0.74737E-06	485274.5	3755271.3	0.0	4.00	8.82	1.86	HROFDY
L0001250	0	0.74737E-06	485273.7	3755290.3	0.0	4.00	8.82	1.86	HROFDY
L0001251	0	0.74737E-06	485272.9	3755309.3	0.0	4.00	8.82	1.86	HROFDY
L0001252	0	0.74737E-06	485272.1	3755328.0	0.0	4.00	8.82	1.86	HROFDY
L0001253	0	0.74737E-06	485271.3	3755347.0	0.0	4.00	8.82	1.86	HROFDY
L0001254	0	0.74737E-06	485270.6	3755366.0	0.0	4.00	8.82	1.86	HROFDY
L0001255	0	0.74737E-06	485262.3	3755374.5	0.0	4.00	6.41	1.86	HROFDY
L0001256	0	0.74737E-06	485247.2	3755376.5	0.0	4.00	7.22	1.86	HROFDY
L0001257	0	0.74737E-06	485231.7	3755376.3	0.0	4.00	7.22	1.86	HROFDY
L0001258	0	0.74737E-06	485216.2	3755376.3	0.0	4.00	7.22	1.86	HROFDY
L0001259	0	0.74737E-06	485200.7	3755376.0	0.0	4.00	7.22	1.86	HROFDY
L0001260	0	0.56833E-06	483513.9	3755430.3	0.0	4.00	11.63	1.86	HROFDY
L0001261	0	0.56833E-06	483515.1	3755405.3	0.0	4.00	11.63	1.86	HROFDY
L0001262	0	0.56833E-06	483516.3	3755380.3	0.0	4.00	11.63	1.86	HROFDY
L0001263	0	0.56833E-06	483517.5	3755355.3	0.0	4.00	11.63	1.86	HROFDY
L0001264	0	0.56833E-06	483518.7	3755330.5	0.0	4.00	11.63	1.86	HROFDY
L0001265	0	0.56833E-06	483519.9	3755305.5	0.0	4.00	11.63	1.86	HROFDY
L0001266	0	0.56833E-06	483521.1	3755280.5	0.0	4.00	11.63	1.86	HROFDY
L0001267	0	0.56833E-06	483522.3	3755255.5	0.0	4.00	11.63	1.86	HROFDY
L0001268	0	0.56833E-06	483523.5	3755230.5	0.0	4.00	11.63	1.86	HROFDY
L0001269	0	0.56833E-06	483544.2	3755223.5	0.0	4.00	12.74	1.86	HROFDY
L0001270	0	0.56833E-06	483571.6	3755223.5	0.0	4.00	12.74	1.86	HROFDY
L0001271	0	0.56833E-06	483599.0	3755223.3	0.0	4.00	12.74	1.86	HROFDY
L0001272	0	0.56833E-06	483626.4	3755223.3	0.0	4.00	12.74	1.86	HROFDY
L0001273	0	0.56833E-06	483653.8	3755223.3	0.0	4.00	12.74	1.86	HROFDY
L0001274	0	0.56833E-06	483681.1	3755223.3	0.0	4.00	12.74	1.86	HROFDY
L0001275	0	0.56833E-06	483708.5	3755223.0	0.0	4.00	12.74	1.86	HROFDY
L0001276	0	0.56833E-06	483735.9	3755223.0	0.0	4.00	12.74	1.86	HROFDY
L0001277	0	0.56833E-06	483763.3	3755223.0	0.0	4.00	12.74	1.86	HROFDY
L0001278	0	0.56833E-06	483790.7	3755222.8	0.0	4.00	12.74	1.86	HROFDY
L0001279	0	0.56833E-06	483818.0	3755222.8	0.0	4.00	12.74	1.86	HROFDY
L0001280	0	0.56833E-06	483845.4	3755222.8	0.0	4.00	12.74	1.86	HROFDY
L0001281	0	0.56833E-06	483872.8	3755222.8	0.0	4.00	12.74	1.86	HROFDY
L0001282	0	0.56833E-06	483900.2	3755222.5	0.0	4.00	12.74	1.86	HROFDY
L0001283	0	0.56833E-06	483927.6	3755222.5	0.0	4.00	12.74	1.86	HROFDY
L0001284	0	0.56833E-06	483954.9	3755222.5	0.0	4.00	12.74	1.86	HROFDY
L0001285	0	0.56833E-06	483982.3	3755222.5	0.0	4.00	12.74	1.86	HROFDY

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 4
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	EMISSION RATE SCALAR (METERS)	VARY BY
L0001286	0	0.56833E-06	484009.7	3755222.3	0.0	4.00	12.74	1.86	HROFDY	
L0001287	0	0.56833E-06	484037.1	3755222.3	0.0	4.00	12.74	1.86	HROFDY	
L0001288	0	0.56833E-06	484064.5	3755222.3	0.0	4.00	12.74	1.86	HROFDY	
L0001289	0	0.56833E-06	484091.9	3755222.3	0.0	4.00	12.74	1.86	HROFDY	
L0001290	0	0.56833E-06	484119.3	3755222.0	0.0	4.00	12.74	1.86	HROFDY	
L0001291	0	0.56833E-06	484146.6	3755222.0	0.0	4.00	12.74	1.86	HROFDY	
L0001292	0	0.56833E-06	484172.9	3755216.8	0.0	4.00	12.55	1.86	HROFDY	
L0001293	0	0.56833E-06	484199.0	3755209.8	0.0	4.00	12.55	1.86	HROFDY	
L0001294	0	0.56833E-06	484225.1	3755202.8	0.0	4.00	12.55	1.86	HROFDY	
L0001295	0	0.56833E-06	484251.1	3755195.8	0.0	4.00	12.55	1.86	HROFDY	
L0001296	0	0.56833E-06	484277.2	3755188.8	0.0	4.00	12.55	1.86	HROFDY	
L0001297	0	0.56833E-06	484296.1	3755176.3	0.0	4.00	10.81	1.86	HROFDY	
L0001298	0	0.56833E-06	484313.3	3755160.5	0.0	4.00	10.81	1.86	HROFDY	
L0001299	0	0.56833E-06	484330.6	3755145.0	0.0	4.00	10.81	1.86	HROFDY	
L0001300	0	0.56833E-06	484347.9	3755129.5	0.0	4.00	10.81	1.86	HROFDY	
L0001301	0	0.56833E-06	484365.2	3755114.0	0.0	4.00	10.81	1.86	HROFDY	
L0001302	0	0.56833E-06	484386.2	3755100.8	0.0	4.00	11.58	1.86	HROFDY	
L0001303	0	0.56833E-06	484408.2	3755089.3	0.0	4.00	11.58	1.86	HROFDY	
L0001304	0	0.56833E-06	484430.1	3755077.5	0.0	4.00	11.58	1.86	HROFDY	
L0001305	0	0.56833E-06	484452.1	3755065.8	0.0	4.00	11.58	1.86	HROFDY	
L0001306	0	0.56833E-06	484474.1	3755054.0	0.0	4.00	11.58	1.86	HROFDY	
L0001307	0	0.56833E-06	484496.0	3755042.3	0.0	4.00	11.58	1.86	HROFDY	
L0001308	0	0.56833E-06	484517.0	3755036.0	0.0	4.00	10.25	1.86	HROFDY	
L0001309	0	0.56833E-06	484538.6	3755031.8	0.0	4.00	10.25	1.86	HROFDY	
L0001310	0	0.56833E-06	484560.2	3755027.3	0.0	4.00	10.25	1.86	HROFDY	
L0001311	0	0.56833E-06	484581.8	3755023.0	0.0	4.00	10.25	1.86	HROFDY	
L0001312	0	0.56833E-06	484605.9	3755021.3	0.0	4.00	11.29	1.86	HROFDY	
L0001313	0	0.56833E-06	484630.2	3755021.3	0.0	4.00	11.29	1.86	HROFDY	
L0001314	0	0.56833E-06	484654.4	3755021.0	0.0	4.00	11.29	1.86	HROFDY	
L0001315	0	0.56833E-06	484678.7	3755020.8	0.0	4.00	11.29	1.86	HROFDY	
L0001316	0	0.56833E-06	484703.0	3755020.5	0.0	4.00	11.29	1.86	HROFDY	
L0001317	0	0.56833E-06	484727.3	3755020.3	0.0	4.00	11.29	1.86	HROFDY	
L0001318	0	0.56833E-06	484751.5	3755020.0	0.0	4.00	11.29	1.86	HROFDY	
L0001319	0	0.56833E-06	484775.8	3755021.0	0.0	4.00	11.31	1.86	HROFDY	
L0001320	0	0.67667E-06	484781.4	3755040.5	0.0	4.00	8.84	1.86	HROFDY	
L0001321	0	0.67667E-06	484781.2	3755059.5	0.0	4.00	8.84	1.86	HROFDY	
L0001322	0	0.67667E-06	484780.9	3755078.5	0.0	4.00	8.84	1.86	HROFDY	
L0001323	0	0.75000E-06	484780.2	3755088.0	0.0	4.00	8.78	1.86	HROFDY	
L0001324	0	0.75000E-06	484780.0	3755106.8	0.0	4.00	8.78	1.86	HROFDY	
L0001325	0	0.75000E-06	484779.8	3755125.8	0.0	4.00	8.78	1.86	HROFDY	

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 5
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	EMISSION RATE SCALAR (METERS)	VARY BY
L0001326	0	0.75000E-06	484779.7	3755144.5	0.0	4.00	8.78	1.86	HROFDY	
L0001327	0	0.75000E-06	484779.5	3755163.5	0.0	4.00	8.78	1.86	HROFDY	
L0001328	0	0.75000E-06	484779.3	3755182.3	0.0	4.00	8.78	1.86	HROFDY	
L0001329	0	0.75000E-06	484779.2	3755201.3	0.0	4.00	8.78	1.86	HROFDY	
L0001330	0	0.75000E-06	484779.0	3755220.0	0.0	4.00	8.78	1.86	HROFDY	
L0001331	0	0.75000E-06	484778.8	3755239.0	0.0	4.00	8.78	1.86	HROFDY	
L0001332	0	0.75000E-06	484778.7	3755257.8	0.0	4.00	8.78	1.86	HROFDY	
L0001333	0	0.75000E-06	484778.5	3755276.8	0.0	4.00	8.78	1.86	HROFDY	
L0001334	0	0.75000E-06	484778.3	3755295.5	0.0	4.00	8.78	1.86	HROFDY	
L0001335	0	0.75000E-06	484778.2	3755314.5	0.0	4.00	8.78	1.86	HROFDY	
L0001336	0	0.75000E-06	484778.0	3755333.3	0.0	4.00	8.78	1.86	HROFDY	
L0001337	0	0.75000E-06	484777.8	3755352.3	0.0	4.00	8.78	1.86	HROFDY	
L0001338	0	0.75000E-06	484777.7	3755371.0	0.0	4.00	8.78	1.86	HROFDY	
L0001339	0	0.75000E-06	484783.3	3755375.8	0.0	4.00	4.99	1.86	HROFDY	
L0001340	0	0.75000E-06	484794.1	3755375.5	0.0	4.00	4.99	1.86	HROFDY	
L0001341	0	0.57895E-06	485270.4	3755024.5	0.0	4.00	12.33	1.86	HROFDY	
L0001342	0	0.57895E-06	485243.8	3755024.3	0.0	4.00	12.33	1.86	HROFDY	
L0001343	0	0.57895E-06	485217.3	3755024.0	0.0	4.00	12.33	1.86	HROFDY	
L0001344	0	0.57895E-06	485190.8	3755023.8	0.0	4.00	12.33	1.86	HROFDY	
L0001345	0	0.57895E-06	485164.3	3755023.5	0.0	4.00	12.33	1.86	HROFDY	
L0001346	0	0.57895E-06	485137.8	3755023.3	0.0	4.00	12.33	1.86	HROFDY	
L0001347	0	0.57895E-06	485111.3	3755023.0	0.0	4.00	12.33	1.86	HROFDY	
L0001348	0	0.57895E-06	485084.8	3755022.8	0.0	4.00	12.33	1.86	HROFDY	
L0001349	0	0.57895E-06	485058.3	3755022.5	0.0	4.00	12.33	1.86	HROFDY	
L0001350	0	0.57895E-06	485031.7	3755022.3	0.0	4.00	12.33	1.86	HROFDY	
L0001351	0	0.57895E-06	485005.2	3755022.0	0.0	4.00	12.33	1.86	HROFDY	
L0001352	0	0.57895E-06	484978.7	3755021.8	0.0	4.00	12.33	1.86	HROFDY	
L0001353	0	0.57895E-06	484952.2	3755021.5	0.0	4.00	12.33	1.86	HROFDY	
L0001354	0	0.57895E-06	484925.7	3755021.3	0.0	4.00	12.33	1.86	HROFDY	
L0001355	0	0.57895E-06	484899.1	3755021.0	0.0	4.00	12.33	1.86	HROFDY	
L0001356	0	0.57895E-06	484872.6	3755020.8	0.0	4.00	12.33	1.86	HROFDY	
L0001357	0	0.57895E-06	484846.1	3755020.5	0.0	4.00	12.33	1.86	HROFDY	
L0001358	0	0.57895E-06	484819.6	3755020.3	0.0	4.00	12.33	1.86	HROFDY	
L0001359	0	0.57895E-06	484793.1	3755020.0	0.0	4.00	12.33	1.86	HROFDY	

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc 10/08/09
 *** West Ridge HRA 12:10:05
 **MODELOPTS: PAGE 6
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** AREAPOLY SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISS. RATE (GRAMS/SEC /METER**2)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT OF VERTS. (METERS)	SZ	SCALAR VARY	INIT.	EMISSION RATE BY
NORTH	0	0.34100E-09	484851.9	3755334.0	0.0	4.00	11	1.86	HROFDY	
SOUTH	0	0.37320E-09	484832.9	3755147.5	0.0	4.00	10	1.86	HROFDY	

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc 10/08/09
 *** West Ridge HRA 12:10:05
 **MODELOPTS: PAGE 7
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210, L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222, L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, L0001234, L0001235, L0001236, L0001237, L0001238, L0001239, L0001240, L0001241, L0001242, L0001243, L0001244, L0001245, L0001246, L0001247, L0001248, L0001249, L0001250, L0001251, L0001252, L0001253, L0001254, L0001255, L0001256, L0001257, L0001258, L0001259, L0001260, L0001261, L0001262, L0001263, L0001264, L0001265, L0001266, L0001267, L0001268, L0001269, L0001270, L0001271, L0001272, L0001273, L0001274, L0001275, L0001276, L0001277, L0001278, L0001279, L0001280, L0001281, L0001282, L0001283, L0001284, L0001285, L0001286, L0001287, L0001288, L0001289, L0001290, L0001291, L0001292, L0001293, L0001294, L0001295, L0001296, L0001297, L0001298, L0001299, L0001300, L0001301, L0001302, L0001303, L0001304, L0001305, L0001306, L0001307, L0001308, L0001309, L0001310, L0001311, L0001312, L0001313, L0001314, L0001315, L0001316, L0001317, L0001318, L0001319, L0001320, L0001321, L0001322, L0001323, L0001324, L0001325, L0001326, L0001327, L0001328, L0001329, L0001330, L0001331, L0001332, L0001333, L0001334, L0001335, L0001336, L0001337, L0001338, L0001339, L0001340, L0001341, L0001342, L0001343, L0001344, L0001345, L0001346, L0001347, L0001348, L0001349, L0001350, L0001351, L0001352, L0001353, L0001354, L0001355, L0001356, L0001357, L0001358, L0001359,

-1015-

Item No. E.3

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 8
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = NORTH ; SOURCE TYPE = AREAPOLY :

1 .8000E+01 2 .8000E+01 3 .4000E+01 4 .4000E+01 5 .1000E+02 6 .2100E+02
7 .2100E+02 8 .1700E+02 9 .1700E+02 10 .1700E+02 11 .1300E+02 12 .8000E+01
13 .8000E+01 14 .1300E+02 15 .1700E+02 16 .2100E+02 17 .2100E+02 18 .3100E+02
19 .4200E+02 20 .2100E+02 21 .2100E+02 22 .3800E+02 23 .3100E+02 24 .1700E+02

SOURCE ID = SOUTH ; SOURCE TYPE = AREAPOLY :

1 .8000E+01 2 .8000E+01 3 .4000E+01 4 .4000E+01 5 .1000E+02 6 .2100E+02
7 .2100E+02 8 .1700E+02 9 .1700E+02 10 .1700E+02 11 .1300E+02 12 .8000E+01
13 .8000E+01 14 .1300E+02 15 .1700E+02 16 .2100E+02 17 .2100E+02 18 .3100E+02
19 .4200E+02 20 .2100E+02 21 .2100E+02 22 .3800E+02 23 .3100E+02 24 .1700E+02

SOURCE ID = L0001206 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001207 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001208 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 9
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001209 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001210 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001211 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001212 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

SOURCE ID = L0001213 ; SOURCE TYPE = VOLUME :

1 .1300E+02 2 .1300E+02 3 .7000E+01 4 .7000E+01 5 .1700E+02 6 .3300E+02
7 .3300E+02 8 .2700E+02 9 .2700E+02 10 .2700E+02 11 .2000E+02 12 .1300E+02
13 .1300E+02 14 .2000E+02 15 .2700E+02 16 .3300E+02 17 .3300E+02 18 .5000E+02
19 .6700E+02 20 .3300E+02 21 .3300E+02 22 .6000E+02 23 .5000E+02 24 .2700E+02

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05
**MODELOPTS: PAGE 10
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001214; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001215; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001216; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001217; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001218; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

*** ISCS3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05
**MODELOPTS: PAGE 11
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001219; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001220; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001221; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001222; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001223; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

-1017-

Item No. E.3

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 12
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001224; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001225; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001226; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001227; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001228; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 13
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001229; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001230; SOURCE TYPE = VOLUME :

1 .13000E+02 2 .13000E+02 3 .70000E+01 4 .70000E+01 5 .17000E+02 6 .33000E+02
7 .33000E+02 8 .27000E+02 9 .27000E+02 10 .27000E+02 11 .20000E+02 12 .13000E+02
13 .13000E+02 14 .20000E+02 15 .27000E+02 16 .33000E+02 17 .33000E+02 18 .50000E+02
19 .67000E+02 20 .33000E+02 21 .33000E+02 22 .60000E+02 23 .50000E+02 24 .27000E+02

SOURCE ID = L0001231; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001232; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001233; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 14
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001234; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001235; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001236; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001237; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001238; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 15
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001239; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001240; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001241; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001242; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001243; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

-1019-

Item No. E.3

*** ISCAST3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 16
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001244; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001245; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001246; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001247; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001248; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCAST3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 17
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001249; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001250; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001251; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001252; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001253; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 18
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001254; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001255; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001256; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001257; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001258; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 19
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001259; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001260; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001261; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001262; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001263; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

-1021-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 20
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001264 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001265 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001266 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001267 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001268 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 21
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001269 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001270 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001271 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001272 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001273 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 22
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001274; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001275; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001276; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001277; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001278; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 23
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001279; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001280; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001281; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001282; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001283; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

-1023-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 24
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001284; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001285; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001286; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001287; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001288; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 25
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001289; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001290; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001291; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001292; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001293; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 26
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001294; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001295; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001296; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001297; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001298; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 27
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001299; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001300; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001301; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001302; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001303; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

-1025-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 28
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001304 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001305 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001306 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001307 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001308 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 29
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001309 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001310 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001311 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001312 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001313 ; SOURCE TYPE = VOLUME :

1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 30
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001314; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001315; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001316; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001317; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001318; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 31
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001319; SOURCE TYPE = VOLUME :
 1 .30000E+01 2 .30000E+01 3 .20000E+01 4 .20000E+01 5 .40000E+01 6 .80000E+01
 7 .80000E+01 8 .70000E+01 9 .70000E+01 10 .70000E+01 11 .50000E+01 12 .30000E+01
 13 .30000E+01 14 .50000E+01 15 .70000E+01 16 .80000E+01 17 .80000E+01 18 .13000E+02
 19 .17000E+02 20 .80000E+01 21 .80000E+01 22 .15000E+02 23 .13000E+02 24 .70000E+01

SOURCE ID = L0001320; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001321; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001322; SOURCE TYPE = VOLUME :
 1 .80000E+01 2 .80000E+01 3 .40000E+01 4 .40000E+01 5 .10000E+02 6 .21000E+02
 7 .21000E+02 8 .17000E+02 9 .17000E+02 10 .17000E+02 11 .13000E+02 12 .80000E+01
 13 .80000E+01 14 .13000E+02 15 .17000E+02 16 .21000E+02 17 .21000E+02 18 .31000E+02
 19 .42000E+02 20 .21000E+02 21 .21000E+02 22 .38000E+02 23 .31000E+02 24 .17000E+02

SOURCE ID = L0001323; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

-1027-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 32
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001324; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001325; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001326; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001327; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001328; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 33
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001329; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001330; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001331; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001332; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001333; SOURCE TYPE = VOLUME :

1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 34
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001334 ; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001335 ; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001336 ; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001337 ; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001338 ; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 35
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001339 ; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001340 ; SOURCE TYPE = VOLUME :
 1 .40000E+01 2 .40000E+01 3 .20000E+01 4 .20000E+01 5 .50000E+01 6 .10000E+02
 7 .10000E+02 8 .80000E+01 9 .80000E+01 10 .80000E+01 11 .60000E+01 12 .40000E+01
 13 .40000E+01 14 .60000E+01 15 .80000E+01 16 .10000E+02 17 .10000E+02 18 .16000E+02
 19 .21000E+02 20 .10000E+02 21 .10000E+02 22 .19000E+02 23 .16000E+02 24 .80000E+01

SOURCE ID = L0001341 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001342 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001343 ; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

-1029-

Item No. E.3

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 36
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001344; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001345; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001346; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001347; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001348; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 37
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001349; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001350; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001351; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001352; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001353; SOURCE TYPE = VOLUME :

1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 38
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001354; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001355; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001356; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001357; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

SOURCE ID = L0001358; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05
 **MODELOPTS: PAGE 39
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0001359; SOURCE TYPE = VOLUME :
 1 .50000E+01 2 .50000E+01 3 .20000E+01 4 .20000E+01 5 .60000E+01 6 .12000E+02
 7 .12000E+02 8 .10000E+02 9 .10000E+02 10 .10000E+02 11 .70000E+01 12 .50000E+01
 13 .50000E+01 14 .70000E+01 15 .10000E+02 16 .12000E+02 17 .12000E+02 18 .19000E+02
 19 .25000E+02 20 .12000E+02 21 .12000E+02 22 .22000E+02 23 .19000E+02 24 .10000E+02

-1031-

Item No. E.3

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

MODELLOPTS: * West Ridge HRA *** 12:10:05
CONC URBAN FLAT FLGPOL NOCALM NOCMPL PAGE 40

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485024.2, 3755540.5, 0.0, 1.5); (485024.2, 3755640.5, 0.0, 1.5);
(485024.2, 3755740.5, 0.0, 1.5); (485024.2, 3755840.5, 0.0, 1.5);
(485024.2, 3755940.5, 0.0, 1.5); (485024.2, 3756040.5, 0.0, 1.5);
(485024.2, 3756140.5, 0.0, 1.5); (485024.2, 3756240.5, 0.0, 1.5);
(485024.2, 3756340.5, 0.0, 1.5); (485024.2, 3756440.5, 0.0, 1.5);
(485024.2, 3756540.5, 0.0, 1.5); (485024.2, 3756640.5, 0.0, 1.5);
(485024.2, 3756740.5, 0.0, 1.5); (485024.2, 3756840.5, 0.0, 1.5);
(485024.2, 3756940.5, 0.0, 1.5); (485024.2, 3757040.5, 0.0, 1.5);
(485024.2, 3757140.5, 0.0, 1.5); (485024.2, 3757240.5, 0.0, 1.5);
(485024.2, 3757340.5, 0.0, 1.5); (485024.2, 3757440.5, 0.0, 1.5);
(485024.2, 3757540.5, 0.0, 1.5); (485024.2, 3757640.5, 0.0, 1.5);
(485024.2, 3757740.5, 0.0, 1.5); (485024.2, 3757840.5, 0.0, 1.5);
(485024.2, 3757940.5, 0.0, 1.5); (485024.2, 3758040.5, 0.0, 1.5);
(485024.2, 3758140.5, 0.0, 1.5); (485024.2, 3758240.5, 0.0, 1.5);
(485076.3, 3755536.0, 0.0, 1.5); (485093.7, 3755634.5, 0.0, 1.5);
(485111.1, 3755733.0, 0.0, 1.5); (485128.4, 3755831.5, 0.0, 1.5);
(485145.8, 3755930.0, 0.0, 1.5); (485163.2, 3756028.3, 0.0, 1.5);
(485180.5, 3756126.8, 0.0, 1.5); (485197.9, 3756225.3, 0.0, 1.5);
(485215.3, 3756323.8, 0.0, 1.5); (485232.6, 3756422.3, 0.0, 1.5);
(485250.0, 3756520.8, 0.0, 1.5); (485267.3, 3756619.3, 0.0, 1.5);
(485284.7, 3756717.8, 0.0, 1.5); (485302.1, 3756816.3, 0.0, 1.5);
(485319.4, 3756914.8, 0.0, 1.5); (485336.8, 3757013.3, 0.0, 1.5);
(485354.2, 3757111.8, 0.0, 1.5); (485371.5, 3757210.3, 0.0, 1.5);
(485388.9, 3757308.5, 0.0, 1.5); (485406.3, 3757407.0, 0.0, 1.5);
(485423.6, 3757505.5, 0.0, 1.5); (485441.0, 3757604.0, 0.0, 1.5);
(485458.3, 3757702.5, 0.0, 1.5); (485475.7, 3757801.0, 0.0, 1.5);
(485493.1, 3757899.5, 0.0, 1.5); (485510.4, 3757998.0, 0.0, 1.5);
(485527.8, 3758096.5, 0.0, 1.5); (485545.2, 3758195.0, 0.0, 1.5);
(485126.8, 3755522.5, 0.0, 1.5); (485161.0, 3755616.5, 0.0, 1.5);
(485195.3, 3755710.3, 0.0, 1.5); (485229.4, 3755804.3, 0.0, 1.5);
(485263.6, 3755898.3, 0.0, 1.5); (485297.8, 3755992.3, 0.0, 1.5);
(485332.1, 3756086.3, 0.0, 1.5); (485366.3, 3756180.3, 0.0, 1.5);
(485400.4, 3756274.3, 0.0, 1.5); (485434.7, 3756368.3, 0.0, 1.5);
(485468.9, 3756462.0, 0.0, 1.5); (485503.1, 3756556.0, 0.0, 1.5);
(485537.3, 3756650.0, 0.0, 1.5); (485571.5, 3756744.0, 0.0, 1.5);
(485605.7, 3756838.0, 0.0, 1.5); (485639.9, 3756932.0, 0.0, 1.5);
(485674.1, 3757026.0, 0.0, 1.5); (485708.3, 3757120.0, 0.0, 1.5);
(485742.5, 3757213.8, 0.0, 1.5); (485776.7, 3757307.8, 0.0, 1.5);
(485810.9, 3757401.8, 0.0, 1.5); (485845.1, 3757495.8, 0.0, 1.5);
(485879.3, 3757589.8, 0.0, 1.5); (485913.5, 3757683.8, 0.0, 1.5);
(485947.7, 3757777.8, 0.0, 1.5); (485981.9, 3757871.8, 0.0, 1.5);
(486016.1, 3757965.5, 0.0, 1.5); (486050.3, 3758059.5, 0.0, 1.5);
(485174.2, 3755500.3, 0.0, 1.5); (485224.2, 3755587.0, 0.0, 1.5);
(485274.2, 3755673.5, 0.0, 1.5); (485324.2, 3755760.3, 0.0, 1.5);
(485374.2, 3755846.8, 0.0, 1.5); (485424.2, 3755933.3, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

MODELLOPTS: * West Ridge HRA *** 12:10:05
CONC URBAN FLAT FLGPOL NOCALM NOCMPL PAGE 41

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485474.2, 3756020.0, 0.0, 1.5); (485524.2, 3756106.5, 0.0, 1.5);
(485574.2, 3756193.3, 0.0, 1.5); (485624.2, 3756279.8, 0.0, 1.5);
(485674.2, 3756366.3, 0.0, 1.5); (485724.2, 3756453.0, 0.0, 1.5);
(485774.2, 3756539.5, 0.0, 1.5); (485824.2, 3756626.3, 0.0, 1.5);
(485874.2, 3756712.8, 0.0, 1.5); (485924.2, 3756799.3, 0.0, 1.5);
(485974.2, 3756886.0, 0.0, 1.5); (486024.2, 3756972.5, 0.0, 1.5);
(486074.2, 3757059.3, 0.0, 1.5); (486124.2, 3757145.8, 0.0, 1.5);
(486174.2, 3757232.3, 0.0, 1.5); (486224.2, 3757319.0, 0.0, 1.5);
(486274.2, 3757405.5, 0.0, 1.5); (486324.2, 3757492.3, 0.0, 1.5);
(486374.2, 3757578.8, 0.0, 1.5); (486424.2, 3757665.5, 0.0, 1.5);
(486474.2, 3757752.0, 0.0, 1.5); (486524.2, 3757838.5, 0.0, 1.5);
(485217.1, 3755470.3, 0.0, 1.5); (485281.3, 3755547.0, 0.0, 1.5);
(485345.6, 3755623.5, 0.0, 1.5); (485409.9, 3755700.3, 0.0, 1.5);
(485474.2, 3755776.8, 0.0, 1.5); (485538.5, 3755853.3, 0.0, 1.5);
(485602.8, 3755930.0, 0.0, 1.5); (485667.0, 3756006.5, 0.0, 1.5);
(485731.3, 3756083.3, 0.0, 1.5); (485795.6, 3756159.8, 0.0, 1.5);
(485859.8, 3756236.3, 0.0, 1.5); (485924.1, 3756313.0, 0.0, 1.5);
(485988.4, 3756389.5, 0.0, 1.5); (486052.7, 3756466.3, 0.0, 1.5);
(486117.0, 3756542.8, 0.0, 1.5); (486181.3, 3756619.5, 0.0, 1.5);
(486245.5, 3756696.0, 0.0, 1.5); (486309.8, 3756772.5, 0.0, 1.5);
(486374.1, 3756849.3, 0.0, 1.5); (486438.4, 3756925.8, 0.0, 1.5);
(486502.6, 3757002.5, 0.0, 1.5); (486566.9, 3757079.0, 0.0, 1.5);
(486631.2, 3757155.5, 0.0, 1.5); (486695.5, 3757232.3, 0.0, 1.5);
(486759.8, 3757308.8, 0.0, 1.5); (486824.0, 3757385.5, 0.0, 1.5);
(486888.3, 3757462.0, 0.0, 1.5); (486952.6, 3757538.8, 0.0, 1.5);
(485330.7, 3755497.8, 0.0, 1.5); (485407.3, 3755562.0, 0.0, 1.5);
(485483.9, 3755626.3, 0.0, 1.5); (485560.5, 3755690.5, 0.0, 1.5);
(485637.1, 3755754.8, 0.0, 1.5); (485713.7, 3755819.0, 0.0, 1.5);
(485790.3, 3755883.3, 0.0, 1.5); (485866.9, 3755947.5, 0.0, 1.5);
(485943.5, 3756011.8, 0.0, 1.5); (486020.1, 3756076.3, 0.0, 1.5);
(486096.7, 3756140.5, 0.0, 1.5); (486173.3, 3756204.8, 0.0, 1.5);
(486249.9, 3756269.0, 0.0, 1.5); (486326.5, 3756333.3, 0.0, 1.5);
(486403.1, 3756397.5, 0.0, 1.5); (486479.7, 3756461.8, 0.0, 1.5);
(486556.3, 3756526.0, 0.0, 1.5); (486632.9, 3756590.3, 0.0, 1.5);
(486709.5, 3756654.8, 0.0, 1.5); (486786.1, 3756719.0, 0.0, 1.5);
(486862.8, 3756783.3, 0.0, 1.5); (486939.3, 3756847.5, 0.0, 1.5);
(487015.9, 3756911.8, 0.0, 1.5); (487092.6, 3756976.0, 0.0, 1.5);
(487169.2, 3757040.3, 0.0, 1.5); (487245.8, 3757104.5, 0.0, 1.5);
(487322.4, 3757168.8, 0.0, 1.5); (485457.3, 3755490.5, 0.0, 1.5);
(485543.8, 3755540.5, 0.0, 1.5); (485630.4, 3755590.5, 0.0, 1.5);
(485717.1, 3755640.5, 0.0, 1.5); (485803.7, 3755690.5, 0.0, 1.5);
(485890.3, 3755740.5, 0.0, 1.5); (485976.9, 3755790.5, 0.0, 1.5);
(486063.5, 3755840.5, 0.0, 1.5); (486150.1, 3755890.5, 0.0, 1.5);
(486236.7, 3755940.5, 0.0, 1.5); (486323.3, 3755990.5, 0.0, 1.5);
(486409.9, 3756040.5, 0.0, 1.5); (486496.5, 3756090.5, 0.0, 1.5);

*** ISCT3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05
**MODELOPTS: PAGE 42
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(486583.1, 3756140.5, 0.0, 1.5); (486669.7, 3756190.5, 0.0, 1.5);
(486756.3, 3756240.5, 0.0, 1.5); (486842.9, 3756290.5, 0.0, 1.5);
(486929.5, 3756340.5, 0.0, 1.5); (487016.1, 3756390.5, 0.0, 1.5);
(487102.7, 3756440.5, 0.0, 1.5); (487189.3, 3756490.5, 0.0, 1.5);
(487275.9, 3756540.5, 0.0, 1.5); (487362.5, 3756590.5, 0.0, 1.5);
(487449.1, 3756640.5, 0.0, 1.5); (487535.7, 3756690.5, 0.0, 1.5);
(487622.3, 3756740.5, 0.0, 1.5); (485400.1, 3755377.3, 0.0, 1.5);
(485494.1, 3755411.5, 0.0, 1.5); (485268.9, 3755002.0, 0.0, 1.5);
(485682.0, 3755480.0, 0.0, 1.5); (485776.0, 375514.3, 0.0, 1.5);
(485869.9, 3755548.3, 0.0, 1.5); (485963.9, 3755582.5, 0.0, 1.5);
(486057.9, 3755616.8, 0.0, 1.5); (486151.9, 3755651.0, 0.0, 1.5);
(486245.8, 3755685.3, 0.0, 1.5); (486339.8, 3755719.3, 0.0, 1.5);
(486433.8, 3755753.5, 0.0, 1.5); (486527.8, 3755787.8, 0.0, 1.5);
(486621.7, 3755822.0, 0.0, 1.5); (486715.7, 3755856.3, 0.0, 1.5);
(486809.7, 3755890.3, 0.0, 1.5); (486903.6, 3755924.5, 0.0, 1.5);
(486997.6, 3755958.8, 0.0, 1.5); (487091.6, 3755993.0, 0.0, 1.5);
(487185.5, 3756027.3, 0.0, 1.5); (487279.5, 3756061.3, 0.0, 1.5);
(487373.5, 3756095.5, 0.0, 1.5); (487467.4, 3756129.8, 0.0, 1.5);
(487561.4, 3756164.0, 0.0, 1.5); (487655.4, 3756198.3, 0.0, 1.5);
(487749.3, 3756232.3, 0.0, 1.5); (487843.3, 3756266.5, 0.0, 1.5);
(485418.2, 3755310.0, 0.0, 1.5); (485615.1, 3755344.8, 0.0, 1.5);
(485713.6, 3755362.0, 0.0, 1.5); (485812.1, 3755379.5, 0.0, 1.5);
(485910.6, 3755396.8, 0.0, 1.5); (486009.0, 3755414.3, 0.0, 1.5);
(486107.5, 3755431.5, 0.0, 1.5); (486206.0, 3755449.0, 0.0, 1.5);
(486304.5, 3755466.3, 0.0, 1.5); (486403.0, 3755483.5, 0.0, 1.5);
(486501.4, 3755501.0, 0.0, 1.5); (486599.9, 3755518.3, 0.0, 1.5);
(486698.4, 3755535.8, 0.0, 1.5); (486796.9, 3755553.0, 0.0, 1.5);
(486895.4, 3755570.5, 0.0, 1.5); (486993.8, 3755587.8, 0.0, 1.5);
(487092.3, 3755605.3, 0.0, 1.5); (487190.8, 3755622.5, 0.0, 1.5);
(487289.3, 3755640.0, 0.0, 1.5); (487387.8, 3755657.3, 0.0, 1.5);
(487486.3, 3755674.8, 0.0, 1.5); (487584.7, 3755692.0, 0.0, 1.5);
(487683.2, 3755709.3, 0.0, 1.5); (487781.7, 3755726.8, 0.0, 1.5);
(487880.2, 3755744.0, 0.0, 1.5); (487978.7, 3755761.5, 0.0, 1.5);
(485324.2, 3755240.5, 0.0, 1.5); (485424.2, 3755240.5, 0.0, 1.5);
(485524.2, 3755240.5, 0.0, 1.5); (485624.2, 3755240.5, 0.0, 1.5);
(485724.2, 3755240.5, 0.0, 1.5); (485824.2, 3755240.5, 0.0, 1.5);
(485924.2, 3755240.5, 0.0, 1.5); (486024.2, 3755240.5, 0.0, 1.5);
(486124.2, 3755240.5, 0.0, 1.5); (486224.2, 3755240.5, 0.0, 1.5);
(486324.2, 3755240.5, 0.0, 1.5); (486424.2, 3755240.5, 0.0, 1.5);
(486524.2, 3755240.5, 0.0, 1.5); (486624.2, 3755240.5, 0.0, 1.5);
(486724.2, 3755240.5, 0.0, 1.5); (486824.2, 3755240.5, 0.0, 1.5);
(486924.2, 3755240.5, 0.0, 1.5); (487024.2, 3755240.5, 0.0, 1.5);
(487124.2, 3755240.5, 0.0, 1.5); (487224.2, 3755240.5, 0.0, 1.5);
(487324.2, 3755240.5, 0.0, 1.5); (487424.2, 3755240.5, 0.0, 1.5);
(487524.2, 3755240.5, 0.0, 1.5); (487624.2, 3755240.5, 0.0, 1.5);

*** ISCT3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05
**MODELOPTS: PAGE 43
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(487724.2, 3755240.5, 0.0, 1.5); (487824.2, 3755240.5, 0.0, 1.5);
(487924.2, 3755240.5, 0.0, 1.5); (488024.2, 3755240.5, 0.0, 1.5);
(485418.2, 3755171.0, 0.0, 1.5); (485615.1, 3755136.3, 0.0, 1.5);
(485713.6, 3755119.0, 0.0, 1.5); (485812.1, 3755101.5, 0.0, 1.5);
(485910.6, 3755084.3, 0.0, 1.5); (486009.0, 3755066.8, 0.0, 1.5);
(486107.5, 3755049.5, 0.0, 1.5); (486206.0, 3755032.3, 0.0, 1.5);
(486304.5, 3755014.8, 0.0, 1.5); (486403.0, 3754997.5, 0.0, 1.5);
(486501.4, 3754980.0, 0.0, 1.5); (486599.9, 3754962.8, 0.0, 1.5);
(486698.4, 3754945.3, 0.0, 1.5); (486796.9, 3754928.0, 0.0, 1.5);
(486895.4, 3754910.5, 0.0, 1.5); (486993.8, 3754893.3, 0.0, 1.5);
(487092.3, 3754875.8, 0.0, 1.5); (487190.8, 3754858.5, 0.0, 1.5);
(487289.3, 3754841.0, 0.0, 1.5); (487387.8, 3754823.8, 0.0, 1.5);
(487486.3, 3754806.5, 0.0, 1.5); (487584.7, 3754789.0, 0.0, 1.5);
(487683.2, 3754771.8, 0.0, 1.5); (487781.7, 3754754.3, 0.0, 1.5);
(487880.2, 3754737.0, 0.0, 1.5); (487978.7, 3754719.5, 0.0, 1.5);
(485400.1, 3755103.8, 0.0, 1.5); (485494.1, 3755069.5, 0.0, 1.5);
(485588.1, 3755035.3, 0.0, 1.5); (485682.0, 3755001.0, 0.0, 1.5);
(485776.0, 3754967.0, 0.0, 1.5); (485869.9, 3754932.8, 0.0, 1.5);
(485963.9, 3754898.5, 0.0, 1.5); (486057.9, 3754864.3, 0.0, 1.5);
(486151.9, 3754830.0, 0.0, 1.5); (486245.8, 3754796.0, 0.0, 1.5);
(486339.8, 3754761.8, 0.0, 1.5); (486433.8, 3754727.5, 0.0, 1.5);
(486527.8, 3754693.3, 0.0, 1.5); (486621.7, 3754659.0, 0.0, 1.5);
(486715.7, 3754624.8, 0.0, 1.5); (486809.7, 3754590.8, 0.0, 1.5);
(486903.6, 3754556.5, 0.0, 1.5); (486997.6, 3754522.3, 0.0, 1.5);
(487091.6, 3754488.0, 0.0, 1.5); (487185.5, 3754453.8, 0.0, 1.5);
(487279.5, 3754419.8, 0.0, 1.5); (487373.5, 3754385.5, 0.0, 1.5);
(487467.4, 3754351.3, 0.0, 1.5); (487561.4, 3754317.0, 0.0, 1.5);
(487655.4, 3754282.8, 0.0, 1.5); (487749.3, 3754248.8, 0.0, 1.5);
(487843.3, 3754214.5, 0.0, 1.5); (485457.3, 3754990.5, 0.0, 1.5);
(485543.8, 3754940.5, 0.0, 1.5); (485630.4, 3754890.5, 0.0, 1.5);
(485717.1, 3754840.5, 0.0, 1.5); (485803.7, 3754790.5, 0.0, 1.5);
(485890.3, 3754740.5, 0.0, 1.5); (485976.9, 3754690.5, 0.0, 1.5);
(486063.5, 3754640.5, 0.0, 1.5); (486150.1, 3754590.5, 0.0, 1.5);
(486236.7, 3754540.5, 0.0, 1.5); (486323.3, 3754490.5, 0.0, 1.5);
(486409.9, 3754440.5, 0.0, 1.5); (486496.5, 3754390.5, 0.0, 1.5);
(486583.1, 3754340.5, 0.0, 1.5); (486669.7, 3754290.5, 0.0, 1.5);
(486756.3, 3754240.5, 0.0, 1.5); (486842.9, 3754190.5, 0.0, 1.5);
(486929.5, 3754140.5, 0.0, 1.5); (487016.1, 3754090.5, 0.0, 1.5);
(487102.7, 3754040.5, 0.0, 1.5); (487189.3, 3753990.5, 0.0, 1.5);
(487275.9, 3753940.5, 0.0, 1.5); (487362.5, 3753890.5, 0.0, 1.5);
(487449.1, 3753840.5, 0.0, 1.5); (487535.7, 3753790.5, 0.0, 1.5);
(487622.3, 3753740.5, 0.0, 1.5); (485330.7, 3754983.5, 0.0, 1.5);
(485407.3, 3754919.0, 0.0, 1.5); (485483.9, 3754854.8, 0.0, 1.5);
(485560.5, 3754790.5, 0.0, 1.5); (485637.1, 3754726.3, 0.0, 1.5);
(485713.7, 3754662.0, 0.0, 1.5); (485790.3, 3754597.8, 0.0, 1.5);

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05
**MODELOPTS: PAGE 44
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485866.9, 3754533.5, 0.0, 1.5); (485943.5, 3754469.3, 0.0, 1.5);
(486020.1, 3754405.0, 0.0, 1.5); (486096.7, 3754340.5, 0.0, 1.5);
(486173.3, 3754276.3, 0.0, 1.5); (486249.9, 3754212.0, 0.0, 1.5);
(486326.5, 3754147.8, 0.0, 1.5); (486403.1, 3754083.5, 0.0, 1.5);
(486479.7, 3754019.3, 0.0, 1.5); (486556.3, 3753955.0, 0.0, 1.5);
(486632.9, 3753890.8, 0.0, 1.5); (486709.5, 3753826.5, 0.0, 1.5);
(486786.1, 3753762.0, 0.0, 1.5); (486862.8, 3753697.8, 0.0, 1.5);
(486939.3, 3753633.5, 0.0, 1.5); (487015.9, 3753569.3, 0.0, 1.5);
(487092.6, 3753505.0, 0.0, 1.5); (487169.2, 3753440.8, 0.0, 1.5);
(487245.8, 3753376.5, 0.0, 1.5); (487322.4, 3753312.3, 0.0, 1.5);
(485217.1, 3755010.8, 0.0, 1.5); (485281.3, 3754934.0, 0.0, 1.5);
(485345.6, 3754857.5, 0.0, 1.5); (485409.9, 3754781.0, 0.0, 1.5);
(485474.2, 3754704.3, 0.0, 1.5); (485538.5, 3754627.8, 0.0, 1.5);
(485602.8, 3754551.0, 0.0, 1.5); (485667.0, 3754474.5, 0.0, 1.5);
(485731.3, 3754397.8, 0.0, 1.5); (485795.6, 3754321.3, 0.0, 1.5);
(485859.8, 3754244.8, 0.0, 1.5); (485924.1, 3754168.0, 0.0, 1.5);
(485988.4, 3754091.5, 0.0, 1.5); (486052.7, 3754014.8, 0.0, 1.5);
(486117.0, 3753938.3, 0.0, 1.5); (486181.3, 3753861.8, 0.0, 1.5);
(486245.5, 3753785.0, 0.0, 1.5); (486309.8, 3753708.5, 0.0, 1.5);
(486374.1, 3753631.8, 0.0, 1.5); (486438.4, 3753555.3, 0.0, 1.5);
(486502.6, 3753478.5, 0.0, 1.5); (486566.9, 3753402.0, 0.0, 1.5);
(486631.2, 3753325.5, 0.0, 1.5); (486695.5, 3753248.8, 0.0, 1.5);
(486759.8, 3753172.3, 0.0, 1.5); (486824.0, 3753095.5, 0.0, 1.5);
(486888.3, 3753019.0, 0.0, 1.5); (486952.6, 3752942.5, 0.0, 1.5);
(485174.2, 3754980.8, 0.0, 1.5); (485224.2, 3754894.0, 0.0, 1.5);
(485274.2, 3754807.5, 0.0, 1.5); (485324.2, 3754721.0, 0.0, 1.5);
(485374.2, 3754634.3, 0.0, 1.5); (485424.2, 3754547.8, 0.0, 1.5);
(485474.2, 3754461.0, 0.0, 1.5); (485524.2, 3754374.5, 0.0, 1.5);
(485574.2, 3754288.0, 0.0, 1.5); (485624.2, 3754201.3, 0.0, 1.5);
(485674.2, 3754114.8, 0.0, 1.5); (485724.2, 3754028.0, 0.0, 1.5);
(485774.2, 3753941.5, 0.0, 1.5); (485824.2, 3753854.8, 0.0, 1.5);
(485874.2, 3753768.3, 0.0, 1.5); (485924.2, 3753681.8, 0.0, 1.5);
(485974.2, 3753595.0, 0.0, 1.5); (486024.2, 3753508.5, 0.0, 1.5);
(486074.2, 3753421.8, 0.0, 1.5); (486124.2, 3753335.3, 0.0, 1.5);
(486174.2, 3753248.8, 0.0, 1.5); (486224.2, 3753162.0, 0.0, 1.5);
(486274.2, 3753075.5, 0.0, 1.5); (486324.2, 3752988.8, 0.0, 1.5);
(486374.2, 3752902.3, 0.0, 1.5); (486424.2, 3752815.8, 0.0, 1.5);
(486474.2, 3752729.0, 0.0, 1.5); (486524.2, 3752642.5, 0.0, 1.5);
(485126.8, 3754958.5, 0.0, 1.5); (485161.0, 3754864.8, 0.0, 1.5);
(485195.3, 3754770.8, 0.0, 1.5); (485229.4, 3754676.8, 0.0, 1.5);
(485263.6, 3754582.8, 0.0, 1.5); (485297.8, 3754488.8, 0.0, 1.5);
(485332.1, 3754394.8, 0.0, 1.5); (485366.3, 3754300.8, 0.0, 1.5);
(485400.4, 3754206.8, 0.0, 1.5); (485434.7, 3754113.0, 0.0, 1.5);
(485468.9, 3754019.0, 0.0, 1.5); (485503.1, 3753925.0, 0.0, 1.5);
(485537.3, 3753831.0, 0.0, 1.5); (485571.5, 3753737.0, 0.0, 1.5);

*** ISCS3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05
**MODELOPTS: PAGE 45
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(485605.7, 3753643.0, 0.0, 1.5); (485639.9, 3753549.0, 0.0, 1.5);
(485674.1, 3753455.0, 0.0, 1.5); (485708.3, 3753361.0, 0.0, 1.5);
(485742.5, 3753267.3, 0.0, 1.5); (485776.7, 3753173.3, 0.0, 1.5);
(485810.9, 3753079.3, 0.0, 1.5); (485845.1, 3752985.3, 0.0, 1.5);
(485879.3, 3752891.3, 0.0, 1.5); (485913.5, 3752797.3, 0.0, 1.5);
(485947.7, 3752703.3, 0.0, 1.5); (485981.9, 3752609.3, 0.0, 1.5);
(486016.1, 3752515.5, 0.0, 1.5); (486050.3, 3752421.5, 0.0, 1.5);
(485076.3, 3754945.0, 0.0, 1.5); (485093.7, 3754846.5, 0.0, 1.5);
(485111.1, 3754748.0, 0.0, 1.5); (485128.4, 3754649.8, 0.0, 1.5);
(485145.8, 3754551.3, 0.0, 1.5); (485163.2, 3754452.8, 0.0, 1.5);
(485180.5, 3754354.3, 0.0, 1.5); (485197.9, 3754255.8, 0.0, 1.5);
(485215.3, 3754157.3, 0.0, 1.5); (485232.6, 3754058.8, 0.0, 1.5);
(485250.0, 3753960.3, 0.0, 1.5); (485267.3, 3753861.8, 0.0, 1.5);
(485284.7, 3753763.3, 0.0, 1.5); (485302.1, 3753664.8, 0.0, 1.5);
(485319.4, 3753566.3, 0.0, 1.5); (485336.8, 3753467.8, 0.0, 1.5);
(485354.2, 3753369.5, 0.0, 1.5); (485371.5, 3753271.0, 0.0, 1.5);
(485388.9, 3753172.5, 0.0, 1.5); (485406.3, 3753074.0, 0.0, 1.5);
(485423.6, 3752975.5, 0.0, 1.5); (485441.0, 3752877.0, 0.0, 1.5);
(485458.3, 3752778.5, 0.0, 1.5); (485475.7, 3752680.0, 0.0, 1.5);
(485493.1, 3752581.5, 0.0, 1.5); (485510.4, 3752483.0, 0.0, 1.5);
(485527.8, 3752384.5, 0.0, 1.5); (485545.2, 3752286.0, 0.0, 1.5);
(485024.2, 3754940.5, 0.0, 1.5); (485024.2, 3754840.5, 0.0, 1.5);
(485024.2, 3754740.5, 0.0, 1.5); (485024.2, 3754640.5, 0.0, 1.5);
(485024.2, 3754540.5, 0.0, 1.5); (485024.2, 3754440.5, 0.0, 1.5);
(485024.2, 3754340.5, 0.0, 1.5); (485024.2, 3754240.5, 0.0, 1.5);
(485024.2, 3754140.5, 0.0, 1.5); (485024.2, 3754040.5, 0.0, 1.5);
(485024.2, 3753940.5, 0.0, 1.5); (485024.2, 3753840.5, 0.0, 1.5);
(485024.2, 3753740.5, 0.0, 1.5); (485024.2, 3753640.5, 0.0, 1.5);
(485024.2, 3753540.5, 0.0, 1.5); (485024.2, 3753440.5, 0.0, 1.5);
(485024.2, 3753340.5, 0.0, 1.5); (485024.2, 3753240.5, 0.0, 1.5);
(485024.2, 3753140.5, 0.0, 1.5); (485024.2, 3753040.5, 0.0, 1.5);
(485024.2, 3752940.5, 0.0, 1.5); (485024.2, 3752840.5, 0.0, 1.5);
(485024.2, 3752740.5, 0.0, 1.5); (485024.2, 3752640.5, 0.0, 1.5);
(485024.2, 3752540.5, 0.0, 1.5); (485024.2, 3752440.5, 0.0, 1.5);
(485024.2, 3752340.5, 0.0, 1.5); (485024.2, 3752240.5, 0.0, 1.5);
(484972.1, 3754945.0, 0.0, 1.5); (484954.8, 3754846.5, 0.0, 1.5);
(484937.4, 3754748.0, 0.0, 1.5); (484920.0, 3754649.8, 0.0, 1.5);
(484902.7, 3754551.3, 0.0, 1.5); (484885.3, 3754452.8, 0.0, 1.5);
(484867.9, 3754354.3, 0.0, 1.5); (484850.6, 3754255.8, 0.0, 1.5);
(484832.3, 3754157.3, 0.0, 1.5); (484815.8, 3754058.8, 0.0, 1.5);
(484798.5, 3753960.3, 0.0, 1.5); (484781.1, 3753861.8, 0.0, 1.5);
(484763.8, 3753763.3, 0.0, 1.5); (484746.4, 3753664.8, 0.0, 1.5);
(484729.0, 3753566.3, 0.0, 1.5); (484711.7, 3753467.8, 0.0, 1.5);
(484694.3, 3753369.5, 0.0, 1.5); (484676.9, 3753271.0, 0.0, 1.5);
(484659.6, 3753172.5, 0.0, 1.5); (484642.2, 3753074.0, 0.0, 1.5);

**MODELOPTS: PAGE 46
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(484624.8, 3752975.5, 0.0, 1.5);	(484607.5, 3752877.0, 0.0, 1.5);
(484590.1, 3752778.5, 0.0, 1.5);	(484572.8, 3752680.0, 0.0, 1.5);
(484555.4, 3752581.5, 0.0, 1.5);	(484538.0, 3752483.0, 0.0, 1.5);
(484520.7, 3752384.5, 0.0, 1.5);	(484503.3, 3752286.0, 0.0, 1.5);
(484492.1, 3754958.5, 0.0, 1.5);	(484887.4, 3754864.8, 0.0, 1.5);
(484853.2, 3754770.8, 0.0, 1.5);	(484819.0, 3754676.8, 0.0, 1.5);
(484784.8, 3754582.8, 0.0, 1.5);	(484750.6, 3754488.8, 0.0, 1.5);
(484716.4, 3754394.8, 0.0, 1.5);	(484682.2, 3754300.8, 0.0, 1.5);
(484648.0, 3754206.8, 0.0, 1.5);	(484613.8, 3754113.0, 0.0, 1.5);
(484579.6, 3754019.0, 0.0, 1.5);	(484545.4, 3753925.0, 0.0, 1.5);
(484511.2, 3753831.0, 0.0, 1.5);	(484477.0, 3753737.0, 0.0, 1.5);
(484442.8, 3753643.0, 0.0, 1.5);	(484408.6, 3753549.0, 0.0, 1.5);
(484374.4, 3753455.0, 0.0, 1.5);	(484340.2, 3753361.0, 0.0, 1.5);
(484306.0, 3753267.3, 0.0, 1.5);	(484271.8, 3753173.3, 0.0, 1.5);
(484237.6, 3753079.3, 0.0, 1.5);	(484203.4, 3752985.3, 0.0, 1.5);
(484169.2, 3752891.3, 0.0, 1.5);	(484135.0, 3752797.3, 0.0, 1.5);
(484100.8, 3752703.3, 0.0, 1.5);	(484066.6, 3752609.3, 0.0, 1.5);
(484032.4, 3752515.5, 0.0, 1.5);	(483998.2, 3752421.5, 0.0, 1.5);
(484874.2, 3754980.8, 0.0, 1.5);	(484824.2, 3754894.0, 0.0, 1.5);
(484774.2, 3754807.5, 0.0, 1.5);	(484724.2, 3754721.0, 0.0, 1.5);
(484674.2, 3754634.3, 0.0, 1.5);	(484624.2, 3754547.8, 0.0, 1.5);
(484574.2, 3754461.0, 0.0, 1.5);	(484524.2, 3754374.5, 0.0, 1.5);
(484474.2, 3754288.0, 0.0, 1.5);	(484424.2, 3754201.3, 0.0, 1.5);
(484374.2, 3754114.8, 0.0, 1.5);	(484324.2, 3754028.0, 0.0, 1.5);
(484274.2, 3753941.5, 0.0, 1.5);	(484224.2, 3753854.8, 0.0, 1.5);
(484174.2, 3753768.3, 0.0, 1.5);	(484124.2, 3753681.8, 0.0, 1.5);
(484074.2, 3753595.0, 0.0, 1.5);	(484024.2, 3753508.5, 0.0, 1.5);
(483974.2, 3753421.8, 0.0, 1.5);	(483924.2, 3753335.3, 0.0, 1.5);
(483874.2, 3753248.8, 0.0, 1.5);	(483824.2, 3753162.0, 0.0, 1.5);
(483774.2, 3753075.5, 0.0, 1.5);	(483724.2, 3752988.8, 0.0, 1.5);
(483674.2, 3752902.3, 0.0, 1.5);	(483624.2, 3752815.8, 0.0, 1.5);
(483574.2, 3752729.0, 0.0, 1.5);	(483524.2, 3752642.5, 0.0, 1.5);
(484767.1, 3754934.0, 0.0, 1.5);	(484702.8, 3754857.5, 0.0, 1.5);
(484638.6, 3754781.0, 0.0, 1.5);	(484574.3, 3754704.3, 0.0, 1.5);
(484510.0, 3754627.8, 0.0, 1.5);	(484445.7, 3754551.0, 0.0, 1.5);
(484381.4, 3754474.5, 0.0, 1.5);	(484317.2, 3754397.8, 0.0, 1.5);
(484252.9, 3754321.3, 0.0, 1.5);	(484188.6, 3754244.8, 0.0, 1.5);
(484124.3, 3754168.0, 0.0, 1.5);	(484060.1, 3754091.5, 0.0, 1.5);
(483995.8, 3754014.8, 0.0, 1.5);	(483931.5, 3753938.3, 0.0, 1.5);
(483867.2, 3753861.8, 0.0, 1.5);	(483802.9, 3753785.0, 0.0, 1.5);
(483738.7, 3753708.5, 0.0, 1.5);	(483674.4, 3753631.8, 0.0, 1.5);
(483610.1, 3753555.3, 0.0, 1.5);	(483545.8, 3753478.5, 0.0, 1.5);
(483481.5, 3753402.0, 0.0, 1.5);	(483417.3, 3753325.5, 0.0, 1.5);
(483353.0, 3753248.8, 0.0, 1.5);	(483288.7, 3753172.3, 0.0, 1.5);
(483224.4, 3753095.5, 0.0, 1.5);	(483160.2, 3753019.0, 0.0, 1.5);

**MODELOPTS: PAGE 47
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(483095.9, 3752942.5, 0.0, 1.5);	(484717.8, 3754983.5, 0.0, 1.5);
(484641.2, 3754919.0, 0.0, 1.5);	(484564.6, 3754854.8, 0.0, 1.5);
(484488.0, 3754790.5, 0.0, 1.5);	(484411.4, 3754726.3, 0.0, 1.5);
(484334.8, 3754662.0, 0.0, 1.5);	(484258.2, 3754597.8, 0.0, 1.5);
(484181.6, 3754533.5, 0.0, 1.5);	(484105.0, 3754469.3, 0.0, 1.5);
(484028.4, 3754405.0, 0.0, 1.5);	(483951.8, 3754340.5, 0.0, 1.5);
(483875.2, 3754276.3, 0.0, 1.5);	(483798.6, 3754212.0, 0.0, 1.5);
(483721.9, 3754147.8, 0.0, 1.5);	(483645.3, 3754083.5, 0.0, 1.5);
(483568.8, 3754019.3, 0.0, 1.5);	(483492.1, 3753955.0, 0.0, 1.5);
(483415.5, 3753890.8, 0.0, 1.5);	(483338.9, 3753826.5, 0.0, 1.5);
(483262.3, 3753762.0, 0.0, 1.5);	(483185.7, 3753697.8, 0.0, 1.5);
(483109.1, 3753633.5, 0.0, 1.5);	(483032.5, 3753569.3, 0.0, 1.5);
(482955.9, 3753505.0, 0.0, 1.5);	(482879.3, 3753440.8, 0.0, 1.5);
(482802.7, 3753376.5, 0.0, 1.5);	(482726.1, 3753312.3, 0.0, 1.5);
(484677.8, 3755040.5, 0.0, 1.5);	(484591.2, 3754990.5, 0.0, 1.5);
(484504.6, 3754940.5, 0.0, 1.5);	(484418.0, 3754890.5, 0.0, 1.5);
(484331.4, 3754840.5, 0.0, 1.5);	(484244.8, 3754790.5, 0.0, 1.5);
(484158.2, 3754740.5, 0.0, 1.5);	(484071.6, 3754690.5, 0.0, 1.5);
(483985.0, 3754640.5, 0.0, 1.5);	(483898.4, 3754590.5, 0.0, 1.5);
(483811.8, 3754540.5, 0.0, 1.5);	(483725.2, 3754490.5, 0.0, 1.5);
(483638.6, 3754440.5, 0.0, 1.5);	(483552.0, 3754390.5, 0.0, 1.5);
(483465.4, 3754340.5, 0.0, 1.5);	(483378.8, 3754290.5, 0.0, 1.5);
(483292.2, 3754240.5, 0.0, 1.5);	(483205.6, 3754190.5, 0.0, 1.5);
(483119.0, 3754140.5, 0.0, 1.5);	(483032.4, 3754090.5, 0.0, 1.5);
(482945.8, 3754040.5, 0.0, 1.5);	(482859.2, 3753990.5, 0.0, 1.5);
(482772.6, 3753940.5, 0.0, 1.5);	(482686.0, 3753890.5, 0.0, 1.5);
(482599.4, 3753840.5, 0.0, 1.5);	(482512.8, 3753790.5, 0.0, 1.5);
(482426.2, 3753740.5, 0.0, 1.5);	(484648.3, 3755103.8, 0.0, 1.5);
(484554.4, 3755069.5, 0.0, 1.5);	(484460.4, 3755035.3, 0.0, 1.5);
(484366.4, 3755001.0, 0.0, 1.5);	(484272.5, 3754967.0, 0.0, 1.5);
(484178.5, 3754932.8, 0.0, 1.5);	(484084.5, 3754898.5, 0.0, 1.5);
(483990.6, 3754864.3, 0.0, 1.5);	(483896.6, 3754830.0, 0.0, 1.5);
(483802.6, 3754796.0, 0.0, 1.5);	(483708.7, 3754761.8, 0.0, 1.5);
(483614.7, 3754727.5, 0.0, 1.5);	(483520.7, 3754693.3, 0.0, 1.5);
(483426.8, 3754659.0, 0.0, 1.5);	(483332.8, 3754624.8, 0.0, 1.5);
(483238.8, 3754590.8, 0.0, 1.5);	(483144.8, 3754556.5, 0.0, 1.5);
(483050.9, 3754522.3, 0.0, 1.5);	(482956.9, 3754488.0, 0.0, 1.5);
(482862.9, 3754453.8, 0.0, 1.5);	(482769.0, 3754419.8, 0.0, 1.5);
(482675.0, 3754385.5, 0.0, 1.5);	(482581.0, 3754351.3, 0.0, 1.5);
(482487.1, 3754317.0, 0.0, 1.5);	(482393.1, 3754282.8, 0.0, 1.5);
(482299.1, 3754248.8, 0.0, 1.5);	(482205.2, 3754214.5, 0.0, 1.5);
(484630.3, 3755171.0, 0.0, 1.5);	(484531.8, 3755153.8, 0.0, 1.5);
(484433.3, 3755136.3, 0.0, 1.5);	(484334.9, 3755119.0, 0.0, 1.5);
(484236.4, 3755101.5, 0.0, 1.5);	(484137.9, 3755084.3, 0.0, 1.5);
(484039.4, 3755066.8, 0.0, 1.5);	(483940.9, 3755049.5, 0.0, 1.5);

*** ISCS T3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05
**MODELOPTS: PAGE 48
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(483842.5, 3755032.3, 0.0, 1.5);	(483744.0, 3755014.8, 0.0, 1.5);
(483645.5, 3754997.5, 0.0, 1.5);	(483547.0, 3754980.0, 0.0, 1.5);
(483448.5, 3754962.8, 0.0, 1.5);	(483350.1, 3754945.3, 0.0, 1.5);
(483251.6, 3754928.0, 0.0, 1.5);	(483153.1, 3754910.5, 0.0, 1.5);
(483054.6, 3754893.3, 0.0, 1.5);	(482956.1, 3754875.8, 0.0, 1.5);
(482857.7, 3754858.5, 0.0, 1.5);	(482759.2, 3754841.0, 0.0, 1.5);
(482660.7, 3754823.8, 0.0, 1.5);	(482562.2, 3754806.5, 0.0, 1.5);
(482463.7, 3754789.0, 0.0, 1.5);	(482365.3, 3754771.8, 0.0, 1.5);
(482266.8, 3754754.3, 0.0, 1.5);	(482168.3, 3754737.0, 0.0, 1.5);
(482069.8, 3754719.5, 0.0, 1.5);	(481971.3, 3754702.3, 0.0, 1.5);
(481872.8, 3754684.8, 0.0, 1.5);	(481774.3, 3754667.5, 0.0, 1.5);
(481675.8, 3754650.0, 0.0, 1.5);	(481577.3, 3754632.8, 0.0, 1.5);
(481478.8, 3754615.3, 0.0, 1.5);	(481380.3, 3754608.0, 0.0, 1.5);
(481281.8, 3754580.5, 0.0, 1.5);	(481183.3, 3754573.3, 0.0, 1.5);
(481084.8, 3754545.8, 0.0, 1.5);	(480986.3, 3754538.5, 0.0, 1.5);
(480887.8, 3754511.0, 0.0, 1.5);	(480789.3, 3754503.8, 0.0, 1.5);
(480690.8, 3754476.3, 0.0, 1.5);	(480592.3, 3754489.0, 0.0, 1.5);
(480493.8, 3754441.5, 0.0, 1.5);	(480395.3, 3754454.3, 0.0, 1.5);
(480296.8, 3754406.8, 0.0, 1.5);	(480198.3, 3754419.5, 0.0, 1.5);
(480100.0, 3754372.0, 0.0, 1.5);	(479999.3, 3754384.8, 0.0, 1.5);
(479903.0, 3754337.3, 0.0, 1.5);	(479802.3, 3754350.0, 0.0, 1.5);
(479706.0, 3754302.5, 0.0, 1.5);	(479605.3, 3754315.3, 0.0, 1.5);
(479509.0, 3754267.8, 0.0, 1.5);	(479408.3, 3754280.5, 0.0, 1.5);
(479312.0, 3754233.0, 0.0, 1.5);	(479211.3, 3754245.8, 0.0, 1.5);
(479115.0, 3754208.3, 0.0, 1.5);	(478999.3, 3754211.0, 0.0, 1.5);
(478918.0, 3754173.5, 0.0, 1.5);	(478802.3, 3754176.3, 0.0, 1.5);
(478721.0, 3754148.8, 0.0, 1.5);	(478605.3, 3754141.5, 0.0, 1.5);
(478524.0, 3754124.0, 0.0, 1.5);	(478408.3, 3754106.8, 0.0, 1.5);
(478327.0, 3754109.3, 0.0, 1.5);	(478211.3, 3754072.0, 0.0, 1.5);
(478130.0, 3754084.5, 0.0, 1.5);	(478014.3, 3754037.3, 0.0, 1.5);
(477933.0, 3754069.8, 0.0, 1.5);	(477817.3, 3754002.5, 0.0, 1.5);
(477736.0, 3754045.0, 0.0, 1.5);	(477620.3, 3753967.8, 0.0, 1.5);
(477539.0, 3754030.3, 0.0, 1.5);	(477423.3, 3753933.0, 0.0, 1.5);
(477342.0, 3754015.5, 0.0, 1.5);	(477226.3, 3753898.3, 0.0, 1.5);
(477145.0, 3754000.8, 0.0, 1.5);	(477029.3, 3753863.5, 0.0, 1.5);
(476948.0, 3753986.0, 0.0, 1.5);	(476832.3, 3753828.8, 0.0, 1.5);
(476751.0, 3753971.3, 0.0, 1.5);	(476635.3, 3753794.0, 0.0, 1.5);
(476554.0, 3753956.5, 0.0, 1.5);	(476438.3, 3753759.3, 0.0, 1.5);
(476357.0, 3753941.8, 0.0, 1.5);	(476241.3, 3753724.5, 0.0, 1.5);
(476160.0, 3753927.0, 0.0, 1.5);	(476044.3, 3753689.8, 0.0, 1.5);
(475963.0, 3753912.3, 0.0, 1.5);	(475847.3, 3753655.0, 0.0, 1.5);
(475766.0, 3753897.5, 0.0, 1.5);	(475650.3, 3753620.3, 0.0, 1.5);
(475569.0, 3753882.8, 0.0, 1.5);	(475453.3, 3753585.5, 0.0, 1.5);
(475372.0, 3753868.0, 0.0, 1.5);	(475256.3, 3753550.8, 0.0, 1.5);
(475175.0, 3753853.3, 0.0, 1.5);	(475059.3, 3753516.0, 0.0, 1.5);
(474978.0, 3753838.5, 0.0, 1.5);	(474862.3, 3753481.3, 0.0, 1.5);
(474781.0, 3753823.8, 0.0, 1.5);	(474665.3, 3753446.5, 0.0, 1.5);
(474584.0, 3753809.0, 0.0, 1.5);	(474468.3, 3753411.8, 0.0, 1.5);
(474387.0, 3753794.3, 0.0, 1.5);	(474271.3, 3753377.0, 0.0, 1.5);
(474190.0, 3753779.5, 0.0, 1.5);	(474074.3, 3753342.3, 0.0, 1.5);
(473993.0, 3753764.8, 0.0, 1.5);	(473877.3, 3753307.5, 0.0, 1.5);
(473796.0, 3753750.0, 0.0, 1.5);	(473680.3, 3753272.8, 0.0, 1.5);
(473599.0, 3753735.3, 0.0, 1.5);	(473483.3, 3753238.0, 0.0, 1.5);
(473402.0, 3753720.5, 0.0, 1.5);	(473286.3, 3753203.3, 0.0, 1.5);
(473205.0, 3753705.8, 0.0, 1.5);	(473089.3, 3753168.5, 0.0, 1.5);
(473008.0, 3753691.0, 0.0, 1.5);	(472892.3, 3753133.8, 0.0, 1.5);
(472811.0, 3753676.3, 0.0, 1.5);	(472695.3, 3753099.0, 0.0, 1.5);
(472614.0, 3753661.5, 0.0, 1.5);	(472498.3, 3753064.3, 0.0, 1.5);
(472417.0, 3753646.8, 0.0, 1.5);	(472301.3, 3753029.5, 0.0, 1.5);
(472220.0, 3753632.0, 0.0, 1.5);	(472104.3, 3752994.8, 0.0, 1.5);
(472023.0, 3753617.3, 0.0, 1.5);	(471907.3, 3752960.0, 0.0, 1.5);
(471826.0, 3753602.5, 0.0, 1.5);	(471710.3, 3752925.3, 0.0, 1.5);
(471629.0, 3753587.8, 0.0, 1.5);	(471513.3, 3752890.5, 0.0, 1.5);
(471432.0, 3753573.0, 0.0, 1.5);	(471316.3, 3752855.8, 0.0, 1.5);
(471235.0, 3753558.3, 0.0, 1.5);	(471119.3, 3752821.0, 0.0, 1.5);
(471038.0, 3753543.5, 0.0, 1.5);	(470922.3, 3752786.3, 0.0, 1.5);
(470841.0, 3753528.8, 0.0, 1.5);	(470725.3, 3752751.5, 0.0, 1.5);
(470644.0, 3753514.0, 0.0, 1.5);	(470528.3, 3752716.8, 0.0, 1.5);
(470447.0, 3753500.0, 0.0, 1.5);	(470331.3, 3752682.0, 0.0, 1.5);
(470250.0, 3753485.3, 0.0, 1.5);	(470134.3, 3752647.3, 0.0, 1.5);
(470053.0, 3753470.5, 0.0, 1.5);	(469937.3, 3752612.5, 0.0, 1.5);
(469856.0, 3753455.8, 0.0, 1.5);	(469740.3, 3752577.8, 0.0, 1.5);
(469659.0, 3753441.0, 0.0, 1.5);	(469543.3, 3752543.0, 0.0, 1.5);
(469462.0, 3753426.3, 0.0, 1.5);	(469346.3, 3752508.3, 0.0, 1.5);
(469265.0, 3753411.5, 0.0, 1.5);	(469149.3, 3752473.5, 0.0, 1.5);
(469068.0, 3753396.8, 0.0, 1.5);	(468952.3, 3752438.8, 0.0, 1.5);
(468871.0, 3753382.0, 0.0, 1.5);	(468755.3, 3752404.0, 0.0, 1.5);
(468674.0, 3753367.3, 0.0, 1.5);	(468558.3, 3752369.3, 0.0, 1.5);
(468477.0, 3753352.5, 0.0, 1.5);	(468361.3, 3752334.5, 0.0, 1.5);
(468280.0, 3753337.8, 0.0, 1.5);	(468164.3, 3752300.0, 0.0, 1.5);
(468083.0, 3753323.0, 0.0, 1.5);	(467967.3, 3752265.3, 0.0, 1.5);
(467886.0, 3753308.3, 0.0, 1.5);	(467770.3, 3752230.5, 0.0, 1.5);
(467689.0, 3753293.5, 0.0, 1.5);	(467573.3, 3752195.8, 0.0, 1.5);
(467492.0, 3753278.8, 0.0, 1.5);	(467376.3, 3752161.0, 0.0, 1.5);
(467295.0, 3753264.0, 0.0, 1.5);	(467179.3, 3752126.3, 0.0, 1.5);
(467098.0, 3753249.3, 0.0, 1.5);	(466982.3, 3752091.5, 0.0, 1.5);
(466901.0, 3753234.5, 0.0, 1.5);	(466785.3, 3752056.8, 0.0, 1.5);
(466704.0, 3753219.8, 0.0, 1.5);	(466588.3, 3752022.0, 0.0, 1.5);
(466507.0, 3753205.0, 0.0, 1.5);	(466391.3, 3751987.3, 0.0, 1.5);
(466310.0, 3753190.3, 0.0, 1.5);	(466194.3, 3751952.5, 0.0, 1.5);
(466113.0, 3753175.5, 0.0, 1.5);	(465997.3, 3751917.8, 0.0, 1.5);
(465916.0, 3753160.8, 0.0, 1.5);	(465800.3, 3751883.0, 0.0, 1.5);
(465719.0, 3753146.0, 0.0, 1.5);	(465603.3, 3751848.3, 0.0, 1.5);
(465522.0, 3753131.3, 0.0, 1.5);	(465406.3, 3751813.5, 0.0, 1.5);
(465325.0, 3753116.5, 0.0, 1.5);	(465209.3, 3751778.8, 0.0, 1.5);
(465128.0, 3753101.8, 0.0, 1.5);	(465012.3, 3751744.0, 0.0, 1.5);
(464931.0, 3753087.0, 0.0, 1.5);	(464815.3, 3751709.3, 0.0, 1.5);
(464734.0, 3753072.3, 0.0, 1.5);	(464618.3, 3751674.5, 0.0, 1.5);
(464537.0, 3753057.5, 0.0, 1.5);	(464421.3, 3751639.8, 0.0, 1.5);
(464340.0, 3753042.8, 0.0, 1.5);	(464224.3, 3751605.0, 0.0, 1.5);
(464143.0, 3753028.0, 0.0, 1.5);	(464027.3, 3751570.3, 0.0, 1.5);
(463946.0, 3753013.3, 0.0, 1.5);	(463830.3, 3751535.5, 0.0, 1.5);
(463749.0, 3753000.0, 0.0, 1.5);	(463633.3, 3751500.8, 0.0, 1.5);
(463552.0, 3752985.3, 0.0, 1.5);	(463436.3, 3751466.0, 0.0, 1.5);
(463355.0, 3752970.5, 0.0, 1.5);	(463239.3, 3751431.3, 0.0, 1.5);
(463158.0, 3752955.8, 0.0, 1.5);	(463042.3, 3751396.5, 0.0, 1.5);
(462961.0, 3752941.0, 0.0, 1.5);	(462845.3, 3751361.8, 0.0, 1.5);
(462764.0, 3752926.3, 0.0, 1.5);	(462648.3, 3751327.0, 0.0, 1.5);
(462567.0, 3752911.5, 0.0, 1.5);	(462451.3, 3751292.3, 0.0, 1.5);
(462370.0, 3752896.8, 0.0, 1.5);	(462254.3, 3751257.5, 0.0, 1.5);
(462173.0, 3752882.0, 0.0, 1.5);	(462057.3, 3751222.8, 0.0, 1.5);
(461976.0, 3752867.3, 0.0, 1.5);	(461860.3, 3751188.0, 0.0, 1.5);
(461779.0, 3752852.5, 0.0, 1.5);	(461663.3, 3751153.3, 0.0, 1.5);
(461582.0, 3752837.8, 0.0, 1.5);	(461466.3, 3751118.5, 0.0, 1.5);
(461385.0, 3752823.0, 0.0, 1.5);	(461269.3, 3751083.8, 0.0, 1.5);
(461188.0, 3752808.3, 0.0, 1.5);	(461072.3, 3751049.0, 0.0, 1.5);
(460991.0, 3752793.5, 0.0, 1.5);	(460875.3, 3751014.3, 0.0, 1.5);
(460794.0, 3752778.8, 0.0, 1.5);	(460678.3, 3750979.5, 0.0, 1.5);
(460597.0, 3752764.0, 0.0, 1.5);	(460481.3, 3750944.8, 0.0, 1.5);
(460400.0, 3752749.3, 0.0, 1.5);	(460284.3, 3750910.0, 0.0, 1.5);
(460203.0, 3752734.5, 0.0, 1.5);	(460087.3, 3750875.3, 0.0, 1.5);
(460006.0, 3752719.8, 0.0, 1.5);	(459890.3, 3750840.5, 0.0, 1.5);
(459809.0, 3752705.0, 0.0, 1.5);	(459693.3, 3750805.8, 0.0, 1.5);
(459612.0, 3752690.3, 0.0, 1.5);	(459496.3, 3750771.0, 0.0, 1.5);
(459415.0, 3752675.5, 0.0, 1.5);	(459299.3, 3750736.3, 0.0, 1.5);
(459218.0, 3752660.8, 0.0, 1.5);	(459102.3, 3750701.5, 0.0, 1.5);
(459021.0, 3752646.0, 0.0, 1.5);	(458905.3, 3750666.8, 0.0, 1.5);
(458824.0, 3752631.3, 0.0, 1.5);	(458708.3, 3750632.0, 0.0, 1.5);
(458627.0, 3752616.5, 0.0, 1.5);	(458511.3, 3750597.3, 0.0, 1.5);
(458430.0, 3752601.8, 0.0, 1.5);	(458314.3, 3750562.5, 0.0, 1.5);
(458233.0, 3752587.0, 0.0, 1.5);	(458117.3, 3750527.8, 0.0, 1.5);
(458036.0, 3752572.3, 0.0, 1.5);	(457920.3, 3750493.0, 0.0, 1.5);
(457839.0, 3752557.5, 0.0, 1.5);	(457723.3, 3750458.3, 0.0, 1.5);
(457642.0, 3752542.8, 0.0, 1.5);	(457526.3, 3750423.5, 0.0, 1.5);
(457445.0, 3752528.0, 0.0, 1.5);	(457329.3, 3750388.8, 0.0, 1.5);
(457248.0, 3752513.3, 0.0, 1.5);	(457132.3, 3750354.0, 0.0, 1.5);
(457051.0, 3752498.5, 0.0, 1.5);	(456935.3, 3750319.3, 0.0, 1.5);
(456854.0, 3752483.8, 0.0, 1.5);	(456738.3, 3750284.5, 0.0, 1.5);
(456657.0, 3752469.0, 0.0, 1.5);	(456541.3, 3750249.8, 0.0, 1.5);
(456460.0, 3752454.3, 0.0, 1.5);	(456344.3, 3750215.0, 0.0, 1.5);
(456263.0, 3752439.5, 0.0, 1.5);	(456147.3, 3750180.3, 0.0, 1.5);
(456066.0, 3752424.8, 0.0, 1.5);	(455950.3, 3750145.5, 0.0, 1.5);
(455869.0, 3752410.0, 0.0, 1.5);	(455753.3, 3750110.8, 0.0, 1.5);
(455672.0, 3752395.3, 0.0, 1.5);	(455556.3, 3750076.0, 0.0, 1.5);
(455475.0, 3752380.5, 0.0, 1.5);	(455359.3, 3750041.3, 0.0, 1.5);
(455278.0, 3752365.8, 0.0, 1.5);	(455162.3, 3750006.5, 0.0, 1.5);
(455081.0, 3752351.0, 0.0, 1.5);	(454965.3, 3749971.8, 0.0, 1.5);
(454884.0, 3752336.3, 0.0, 1.5);	(454768.3, 3749937.0, 0.0, 1.5);
(454687.0, 3752321.5, 0.0, 1.5);	(454571.3, 3749902.3, 0.0, 1.5);
(454490.0, 3752306.8, 0.0, 1.5);	(454374.3, 3749867.5, 0.0, 1.5);
(454293.0, 3752292.0, 0.0, 1.5);	(454177.3, 3749832.8, 0.0, 1.5);
(454096.0, 3752277.3, 0.0, 1.5);	(453980.3, 3749798.0, 0.0, 1.5);
(453899.0, 3752262.5, 0.0, 1.5);	(453783.3, 3749763.3, 0.0, 1.5);
(453702.0, 3752247.8, 0.0, 1.5);	(453586.3, 3749728.5, 0.0, 1.5);
(453505.0, 3752233.0, 0.0, 1.5);	(453389.3, 3749693.8, 0.0, 1.5);
(453308.0, 3752218.3, 0.0, 1.5);	(453192.3, 3749659.0, 0.0, 1.5);
(453111.0, 3752203.5, 0.0, 1.	

**MODELOPTS: PAGE 50
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZFLAG)
 (METERS)

(483095.9, 3757538.8, 0.0, 1.5);	(484874.2, 3755500.3, 0.0, 1.5);
(484824.2, 3755587.0, 0.0, 1.5);	(484774.2, 3755673.5, 0.0, 1.5);
(484724.2, 3755760.3, 0.0, 1.5);	(484674.2, 3755846.8, 0.0, 1.5);
(484624.2, 3755933.3, 0.0, 1.5);	(484574.2, 3756020.0, 0.0, 1.5);
(484524.2, 3756106.5, 0.0, 1.5);	(484474.2, 3756193.3, 0.0, 1.5);
(484424.2, 3756279.8, 0.0, 1.5);	(484374.2, 3756366.3, 0.0, 1.5);
(484324.2, 3756453.0, 0.0, 1.5);	(484274.2, 3756539.5, 0.0, 1.5);
(484224.2, 3756626.3, 0.0, 1.5);	(484174.2, 3756712.8, 0.0, 1.5);
(484124.2, 3756799.3, 0.0, 1.5);	(484074.2, 3756886.0, 0.0, 1.5);
(484024.2, 3756972.5, 0.0, 1.5);	(483974.2, 3757059.3, 0.0, 1.5);
(483924.2, 3757145.8, 0.0, 1.5);	(483874.2, 3757232.3, 0.0, 1.5);
(483824.2, 3757319.0, 0.0, 1.5);	(483774.2, 3757405.5, 0.0, 1.5);
(483724.2, 3757492.3, 0.0, 1.5);	(483674.2, 3757578.8, 0.0, 1.5);
(483624.2, 3757665.5, 0.0, 1.5);	(483574.2, 3757752.0, 0.0, 1.5);
(483524.2, 3757838.5, 0.0, 1.5);	(483474.2, 3757925.3, 0.0, 1.5);
(483424.2, 3758011.8, 0.0, 1.5);	(483374.2, 3758098.5, 0.0, 1.5);
(483324.2, 3758185.0, 0.0, 1.5);	(483274.2, 3758271.8, 0.0, 1.5);
(483224.2, 3758358.3, 0.0, 1.5);	(483174.2, 3758445.0, 0.0, 1.5);
(483124.2, 3758531.5, 0.0, 1.5);	(483074.2, 3758618.3, 0.0, 1.5);
(483024.2, 3758704.8, 0.0, 1.5);	(482974.2, 3758791.5, 0.0, 1.5);
(482924.2, 3758878.0, 0.0, 1.5);	(482874.2, 3758964.8, 0.0, 1.5);
(482824.2, 3759051.3, 0.0, 1.5);	(482774.2, 3759138.0, 0.0, 1.5);
(482724.2, 3759224.5, 0.0, 1.5);	(482674.2, 3759311.3, 0.0, 1.5);
(482624.2, 3759397.8, 0.0, 1.5);	(482574.2, 3759484.5, 0.0, 1.5);
(482524.2, 3759571.0, 0.0, 1.5);	(482474.2, 3759657.8, 0.0, 1.5);
(482424.2, 3759744.3, 0.0, 1.5);	(482374.2, 3759831.0, 0.0, 1.5);
(482324.2, 3759917.5, 0.0, 1.5);	(482274.2, 3760004.3, 0.0, 1.5);
(482224.2, 3760090.8, 0.0, 1.5);	(482174.2, 3760177.5, 0.0, 1.5);
(482124.2, 3760264.0, 0.0, 1.5);	(482074.2, 3760350.8, 0.0, 1.5);
(482024.2, 3760437.3, 0.0, 1.5);	(481974.2, 3760524.0, 0.0, 1.5);
(481924.2, 3760610.5, 0.0, 1.5);	(481874.2, 3760697.3, 0.0, 1.5);
(481824.2, 3760783.8, 0.0, 1.5);	(481774.2, 3760870.5, 0.0, 1.5);
(481724.2, 3760957.0, 0.0, 1.5);	(481674.2, 3761043.8, 0.0, 1.5);
(481624.2, 3761130.3, 0.0, 1.5);	(481574.2, 3761217.0, 0.0, 1.5);
(481524.2, 3761303.5, 0.0, 1.5);	(481474.2, 3761390.3, 0.0, 1.5);
(481424.2, 3761476.8, 0.0, 1.5);	(481374.2, 3761563.5, 0.0, 1.5);
(481324.2, 3761650.0, 0.0, 1.5);	(481274.2, 3761736.8, 0.0, 1.5);
(481224.2, 3761823.3, 0.0, 1.5);	(481174.2, 3761910.0, 0.0, 1.5);
(481124.2, 3761996.5, 0.0, 1.5);	(481074.2, 3762083.3, 0.0, 1.5);
(481024.2, 3762169.8, 0.0, 1.5);	(480974.2, 3762256.5, 0.0, 1.5);
(480924.2, 3762343.0, 0.0, 1.5);	(480874.2, 3762429.8, 0.0, 1.5);
(480824.2, 3762516.3, 0.0, 1.5);	(480774.2, 3762603.0, 0.0, 1.5);
(480724.2, 3762689.5, 0.0, 1.5);	(480674.2, 3762776.3, 0.0, 1.5);
(480624.2, 3762862.8, 0.0, 1.5);	(480574.2, 3762949.5, 0.0, 1.5);
(480524.2, 3763036.0, 0.0, 1.5);	(480474.2, 3763122.8, 0.0, 1.5);
(480424.2, 3763209.3, 0.0, 1.5);	(480374.2, 3763296.0, 0.0, 1.5);
(480324.2, 3763382.5, 0.0, 1.5);	(480274.2, 3763469.3, 0.0, 1.5);
(480224.2, 3763555.8, 0.0, 1.5);	(480174.2, 3763642.5, 0.0, 1.5);
(480124.2, 3763729.0, 0.0, 1.5);	(480074.2, 3763815.8, 0.0, 1.5);
(480024.2, 3763902.3, 0.0, 1.5);	(479974.2, 3763989.0, 0.0, 1.5);
(479924.2, 3764075.5, 0.0, 1.5);	(479874.2, 3764162.3, 0.0, 1.5);
(479824.2, 3764248.8, 0.0, 1.5);	(479774.2, 3764335.5, 0.0, 1.5);
(479724.2, 3764422.0, 0.0, 1.5);	(479674.2, 3764508.8, 0.0, 1.5);
(479624.2, 3764595.3, 0.0, 1.5);	(479574.2, 3764682.0, 0.0, 1.5);
(479524.2, 3764768.5, 0.0, 1.5);	(479474.2, 3764855.3, 0.0, 1.5);
(479424.2, 3764941.8, 0.0, 1.5);	(479374.2, 3765028.5, 0.0, 1.5);
(479324.2, 3765115.0, 0.0, 1.5);	(479274.2, 3765201.8, 0.0, 1.5);
(479224.2, 3765288.3, 0.0, 1.5);	(479174.2, 3765375.0, 0.0, 1.5);
(479124.2, 3765461.5, 0.0, 1.5);	(479074.2, 3765548.3, 0.0, 1.5);
(479024.2, 3765634.8, 0.0, 1.5);	(478974.2, 3765721.5, 0.0, 1.5);
(478924.2, 3765808.0, 0.0, 1.5);	(478874.2, 3765894.8, 0.0, 1.5);
(478824.2, 3765981.3, 0.0, 1.5);	(478774.2, 3766068.0, 0.0, 1.5);
(478724.2, 3766154.5, 0.0, 1.5);	(478674.2, 3766241.3, 0.0, 1.5);
(478624.2, 3766327.8, 0.0, 1.5);	(478574.2, 3766414.5, 0.0, 1.5);
(478524.2, 3766491.0, 0.0, 1.5);	(478474.2, 3766587.8, 0.0, 1.5);
(478424.2, 3766664.3, 0.0, 1.5);	(478374.2, 3766761.0, 0.0, 1.5);
(478324.2, 3766837.5, 0.0, 1.5);	(478274.2, 3766934.3, 0.0, 1.5);
(478224.2, 3767010.8, 0.0, 1.5);	(478174.2, 3767107.5, 0.0, 1.5);
(478124.2, 3767184.0, 0.0, 1.5);	(478074.2, 3767280.8, 0.0, 1.5);
(478024.2, 3767357.3, 0.0, 1.5);	(477974.2, 3767454.0, 0.0, 1.5);
(477924.2, 3767530.5, 0.0, 1.5);	(477874.2, 3767627.3, 0.0, 1.5);
(477824.2, 3767703.8, 0.0, 1.5);	(477774.2, 3767800.5, 0.0, 1.5);
(477724.2, 3767877.0, 0.0, 1.5);	(477674.2, 3767973.8, 0.0, 1.5);
(477624.2, 3768050.3, 0.0, 1.5);	(477574.2, 3768147.0, 0.0, 1.5);
(477524.2, 3768223.5, 0.0, 1.5);	(477474.2, 3768320.3, 0.0, 1.5);
(477424.2, 3768396.8, 0.0, 1.5);	(477374.2, 3768493.5, 0.0, 1.5);
(477324.2, 3768570.0, 0.0, 1.5);	(477274.2, 3768666.8, 0.0, 1.5);
(477224.2, 3768743.3, 0.0, 1.5);	(477174.2, 3768840.0, 0.0, 1.5);
(477124.2, 3768916.5, 0.0, 1.5);	(477074.2, 3769013.3, 0.0, 1.5);
(477024.2, 3769089.8, 0.0, 1.5);	(476974.2, 3769186.5, 0.0, 1.5);
(476924.2, 3769263.0, 0.0, 1.5);	(476874.2, 3769359.8, 0.0, 1.5);
(476824.2, 3769436.3, 0.0, 1.5);	(476774.2, 3769533.0, 0.0, 1.5);
(476724.2, 3769609.5, 0.0, 1.5);	(476674.2, 3769706.3, 0.0, 1.5);
(476624.2, 3769782.8, 0.0, 1.5);	(476574.2, 3769879.5, 0.0, 1.5);
(476524.2, 3769956.0, 0.0, 1.5);	(476474.2, 3770052.8, 0.0, 1.5);
(476424.2, 3770129.3, 0.0, 1.5);	(476374.2, 3770226.0, 0.0, 1.5);
(476324.2, 3770302.5, 0.0, 1.5);	(476274.2, 3770399.3, 0.0, 1.5);
(476224.2, 3770475.8, 0.0, 1.5);	(476174.2, 3770572.5, 0.0, 1.5);
(476124.2, 3770649.0, 0.0, 1.5);	(476074.2, 3770745.8, 0.0, 1.5);
(476024.2, 3770822.3, 0.0, 1.5);	(475974.2, 3770919.0, 0.0, 1.5);
(475924.2, 3770995.5, 0.0, 1.5);	(475874.2, 3771092.3, 0.0, 1.5);
(475824.2, 3771168.8, 0.0, 1.5);	(475774.2, 3771265.5, 0.0, 1.5);
(475724.2, 3771342.0, 0.0, 1.5);	(475674.2, 3771438.8, 0.0, 1.5);
(475624.2, 3771515.3, 0.0, 1.5);	(475574.2, 3771612.0, 0.0, 1.5);
(475524.2, 3771688.5, 0.0, 1.5);	(475474.2, 3771785.3, 0.0, 1.5);
(475424.2, 3771861.8, 0.0, 1.5);	(475374.2, 3771958.5, 0.0, 1.5);
(475324.2, 3772035.0, 0.0, 1.5);	(475274.2, 3772131.8, 0.0, 1.5);
(475224.2, 3772208.3, 0.0, 1.5);	(475174.2, 3772305.0, 0.0, 1.5);
(475124.2, 3772381.5, 0.0, 1.5);	(475074.2, 3772478.3, 0.0, 1.5);
(475024.2, 3772554.8, 0.0, 1.5);	(474974.2, 3772651.5, 0.0, 1.5);
(474924.2, 3772728.0, 0.0, 1.5);	(474874.2, 3772824.8, 0.0, 1.5);
(474824.2, 3772901.3, 0.0, 1.5);	(474774.2, 3772998.0, 0.0, 1.5);
(474724.2, 3773074.5, 0.0, 1.5);	(474674.2, 3773171.3, 0.0, 1.5);
(474624.2, 3773247.8, 0.0, 1.5);	(474574.2, 3773344.5, 0.0, 1.5);
(474524.2, 3773421.0, 0.0, 1.5);	(474474.2, 3773517.8, 0.0, 1.5);
(474424.2, 3773594.3, 0.0, 1.5);	(474374.2, 3773691.0, 0.0, 1.5);
(474324.2, 3773767.5, 0.0, 1.5);	(474274.2, 3773864.3, 0.0, 1.5);
(474224.2, 3773940.8, 0.0, 1.5);	(474174.2, 3774037.5, 0.0, 1.5);
(474124.2, 3774114.0, 0.0, 1.5);	(474074.2, 3774210.8, 0.0, 1.5);
(474024.2, 3774287.3, 0.0, 1.5);	(473974.2, 3774384.0, 0.0, 1.5);
(473924.2, 3774460.5, 0.0, 1.5);	(473874.2, 3774557.3, 0.0, 1.5);
(473824.2, 3774633.8, 0.0, 1.5);	(473774.2, 3774730.5, 0.0, 1.5);
(473724.2, 3774807.0, 0.0, 1.5);	(473674.2, 3774903.8, 0.0, 1.5);
(473624.2, 3774980.3, 0.0, 1.5);	(473574.2, 3775077.0, 0.0, 1.5);
(473524.2, 3775153.5, 0.0, 1.5);	(473474.2, 3775250.3, 0.0, 1.5);
(473424.2, 3775326.8, 0.0, 1.5);	(473374.2, 3775423.5, 0.0, 1.5);
(473324.2, 3775500.0, 0.0, 1.5);	(473274.2, 3775596.8, 0.0, 1.5);
(473224.2, 3775673.3, 0.0, 1.5);	(473174.2, 3775770.0, 0.0, 1.5);
(473124.2, 3775846.5, 0.0, 1.5);	(473074.2, 3775943.3, 0.0, 1.5);
(473024.2, 3776019.8, 0.0, 1.5);	(472974.2, 3776116.5, 0.0, 1.5);
(472924.2, 3776193.0, 0.0, 1.5);	(472874.2, 3776289.8, 0.0, 1.5);
(472824.2, 3776366.3, 0.0, 1.5);	(472774.2, 3776463.0, 0.0, 1.5);
(472724.2, 3776539.5, 0.0, 1.5);	(472674.2, 3776636.3, 0.0, 1.5);
(472624.2, 3776712.8, 0.0, 1.5);	(472574.2, 3776809.5, 0.0, 1.5);
(472524.2, 3776886.0, 0.0, 1.5);	(472474.2, 3776982.8, 0.0, 1.5);
(472424.2, 3777059.3, 0.0, 1.5);	(472374.2, 3777156.0, 0.0, 1.5);
(472324.2, 3777232.3, 0.0, 1.5);	(472274.2, 3777329.3, 0.0, 1.5);
(472224.2, 3777405.5, 0.0, 1.5);	(472174.2, 3777502.5, 0.0, 1.5);
(472124.2, 3777578.8, 0.0, 1.5);	(472074.2, 3777675.8, 0.0, 1.5);
(472024.2, 3777752.0, 0.0, 1.5);	(471974.2, 3777849.0, 0.0, 1.5);
(471924.2, 3777925.3, 0.0, 1.5);	(471874.2, 3778022.3, 0.0, 1.5);
(471824.2, 3778098.5, 0.0, 1.5);	(471774.2, 3778195.5, 0.0, 1.5);
(471724.2, 3778271.8, 0.0, 1.5);	(471674.2, 3778368.8, 0.0, 1.5);
(471624.2, 3778445.0, 0.0, 1.5);	(471574.2, 3778542.0, 0.0, 1.5);
(471524.2, 3778618.3, 0.0, 1.5);	(471474.2, 3778715.3, 0.0, 1.5);
(471424.2, 3778791.5, 0.0, 1.5);	(471374.2, 3778888.5, 0.0, 1.5);
(471324.2, 3778964.8, 0.0, 1.5);	(471274.2, 3779061.8, 0.0, 1.5);
(471224.2, 3779138.0, 0.0, 1.5);	(471174.2, 3779235.0, 0.0, 1.5);
(471124.2, 3779311.3, 0.0, 1.5);	(471074.2, 3779408.3, 0.0, 1.5);
(471024.2, 3779484.5, 0.0, 1.5);	(470974.2, 3779581.5, 0.0, 1.5);
(470924.2, 3779657.8, 0.0, 1.5);	(470874.2, 3779754.8, 0.0, 1.5);
(470824.2, 3779831.0, 0.0, 1.5);	(470774.2, 3779928.0, 0.0, 1.5);
(470724.2, 3780004.3, 0.0, 1.5);	(470674.2, 3780101.3, 0.0, 1.5);
(470624.2, 3780177.5, 0.0, 1.5);	(470574.2, 3780274.5, 0.0, 1.5);
(470524.2, 3780350.8, 0.0, 1.5);	(470474.2, 3780447.8, 0.0, 1.5);
(470424.2, 3780524.0, 0.0, 1.5);	(470374.2, 3780621.0, 0.0, 1.5);
(470324.2, 3780697.3, 0.0, 1.5);	(470274.2, 3780794.3, 0.0, 1.5);
(470224.2, 3780870.5, 0.0, 1.5);	(470174.2, 3780967.5, 0.0, 1.5);
(470124.2, 3781043.8, 0.0, 1.5);	(470074.2, 3781140.8, 0.0, 1.5);
(470024.2, 3781217.0, 0.0, 1.5);	(469974.2, 3781314.0, 0.0, 1.5);
(469924.2, 3781387.3, 0.0, 1.5);	(469874.2, 3781487.3, 0.0, 1.5);
(469824.2, 3781560.5, 0.0, 1.5);	(469774.2, 3781660.5, 0.0, 1.5);
(469724.2, 3781733.8, 0.0, 1.5);	(469674.2, 3781833.8, 0.0, 1.5);
(469624.2, 3781907.0, 0.0, 1.5);	(469574.2, 3782007.0, 0.0, 1.5);
(469524.2, 3782080.3, 0.0, 1.5);	(469474.2, 3782180.3, 0.0, 1.5);
(469424.2, 3782253.5, 0.0, 1.5);	(469374.2, 3782353.5, 0.0, 1.5);
(469324.2, 3782426.8, 0.0, 1.5);	(469274.2, 3782526.8, 0.0, 1.5);
(469224.	

**MODELOPTS: PAGE 54
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485024.22	3755540.50	0.00873	485024.22	3755640.50	0.00471
485024.22	3755740.50	0.00267	485024.22	3755840.50	0.00166
485024.22	3755940.50	0.00120	485024.22	3756040.50	0.00094
485024.22	3756140.50	0.00076	485024.22	3756240.50	0.00064
485024.22	3756340.50	0.00055	485024.22	3756440.50	0.00048
485024.22	3756540.50	0.00042	485024.22	3756640.50	0.00037
485024.22	3756740.50	0.00034	485024.22	3756840.50	0.00031
485024.22	3756940.50	0.00028	485024.22	3757040.50	0.00025
485024.22	3757140.50	0.00023	485024.22	3757240.50	0.00022
485024.22	3757340.50	0.00020	485024.22	3757440.50	0.00018
485024.22	3757540.50	0.00017	485024.22	3757640.50	0.00016
485024.22	3757740.50	0.00015	485024.22	3757840.50	0.00014
485024.22	3757940.50	0.00013	485024.22	3758040.50	0.00013
485024.22	3758140.50	0.00012	485024.22	3758240.50	0.00011
485076.31	3755536.00	0.00834	485093.69	3755634.50	0.00453
485111.06	3755733.00	0.00243	485128.41	3755831.50	0.00156
485145.78	3755930.00	0.00113	485163.16	3756028.25	0.00088
485180.50	3756126.75	0.00071	485197.88	3756225.25	0.00060
485215.25	3756323.75	0.00052	485232.63	3756422.25	0.00045
485249.97	3756520.75	0.00039	485267.34	3756619.25	0.00035
485284.69	3756717.75	0.00031	485302.06	3756816.25	0.00028
485319.44	3756914.75	0.00025	485336.81	3757013.25	0.00023
485354.16	3757111.75	0.00021	485371.53	3757210.25	0.00019
485388.88	3757308.50	0.00018	485406.25	3757407.00	0.00016
485423.63	3757505.50	0.00015	485441.00	3757604.00	0.00014
485458.34	3757702.50	0.00013	485475.72	3757801.00	0.00012
485493.09	3757899.50	0.00012	485510.44	3757998.00	0.00011
485527.81	3758096.50	0.00011	485545.16	3758195.00	0.00010
485126.84	3755522.50	0.00865	485161.03	3755616.50	0.00470
485195.25	3755710.25	0.00239	485229.44	3755804.25	0.00153
485263.63	3755898.25	0.00112	485297.84	3755992.25	0.00089
485332.06	3756086.25	0.00073	485366.25	3756180.25	0.00061
485400.44	3756274.25	0.00051	485434.66	3756368.25	0.00043
485468.88	3756462.00	0.00037	485503.06	3756556.00	0.00033
485537.25	3756650.00	0.00029	485571.47	3756744.00	0.00026
485605.66	3756838.00	0.00023	485639.88	3756932.00	0.00021
485674.06	3757026.00	0.00019	485708.28	3757120.00	0.00018
485742.47	3757213.75	0.00016	485776.66	3757307.75	0.00015
485810.88	3757401.75	0.00014	485845.09	3757495.75	0.00013
485879.28	3757589.75	0.00012	485913.47	3757683.75	0.00011

**MODELOPTS: PAGE 55
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485947.69	3757777.75	0.00011	485981.88	3757871.75	0.00010
486016.09	3757965.50	0.00009	486050.28	3758059.50	0.00009
485174.22	3755500.25	0.00973	485224.22	3755587.00	0.00534
485274.22	3755673.50	0.00249	485324.22	3755760.25	0.00161
485374.22	3755846.75	0.00122	485424.22	3755933.25	0.00095
485474.22	3756020.00	0.00075	485524.22	3756106.50	0.00061
485574.22	3756193.25	0.00051	485624.22	3756279.75	0.00044
485674.22	3756366.25	0.00038	485724.22	3756453.00	0.00033
485774.22	3756539.50	0.00029	485824.22	3756626.25	0.00026
485874.22	3756712.75	0.00023	485924.22	3756799.25	0.00021
485974.22	3756886.00	0.00019	486024.22	3756972.50	0.00017
486074.22	3757059.25	0.00016	486124.22	3757145.75	0.00014
486174.22	3757232.25	0.00013	486224.22	3757319.00	0.00012
486274.22	3757405.50	0.00012	486324.22	3757492.25	0.00011
486374.22	3757578.75	0.00010	486424.22	3757665.50	0.00010
486474.22	3757752.00	0.00009	486524.22	3757838.50	0.00009
486574.22	3757925.25	0.00008	486624.22	3758011.75	0.00008
486674.22	3758098.50	0.00007	486724.22	3758184.75	0.00007
486774.22	3758281.75	0.00006	486824.22	3758357.75	0.00006
486874.22	3758465.00	0.00005	486924.22	3758530.75	0.00005
486974.22	3758648.25	0.00004	487024.22	3758703.75	0.00004
487074.22	3758831.50	0.00003	487124.22	3758876.75	0.00003
487174.22	3759014.75	0.00002	487224.22	3759049.75	0.00002
487274.22	3759198.00	0.00001	487324.22	3759222.75	0.00001
487374.22	3759381.25	0.00000	487424.22	3759395.75	0.00000
487474.22	3759564.50	0.00000	487524.22	3759568.75	0.00000
487574.22	3759747.75	0.00000	487624.22	3759741.75	0.00000
487674.22	3759931.00	0.00000	487724.22	3759914.75	0.00000
487774.22	3760114.25	0.00000	487824.22	3760087.75	0.00000
487874.22	3760297.50	0.00000	487924.22	3760260.75	0.00000
487974.22	3760480.75	0.00000	488024.22	3760433.75	0.00000
488074.22	3760664.00	0.00000	488124.22	3760606.75	0.00000
488174.22	3760847.25	0.00000	488224.22	3760779.75	0.00000
488274.22	3761030.50	0.00000	488324.22	3760952.75	0.00000
488374.22	3761213.75	0.00000	488424.22	3761125.75	0.00000
488474.22	3761397.00	0.00000	488524.22	3761298.75	0.00000
488574.22	3761580.25	0.00000	488624.22	3761471.75	0.00000
488674.22	3761763.50	0.00000	488724.22	3761644.75	0.00000
488774.22	3761946.75	0.00000	488824.22	3761817.75	0.00000
488874.22	3762130.00	0.00000	488924.22	3761990.75	0.00000
488974.22	3762313.25	0.00000	489024.22	3762163.75	0.00000
489074.22	3762496.50	0.00000	489124.22	3762336.75	0.00000
489174.22	3762679.75	0.00000	489224.22	3762509.75	0.00000
489274.22	3762863.00	0.00000	489324.22	3762682.75	0.00000
489374.22	3763046.25	0.00000	489424.22	3762855.75	0.00000
489474.22	3763229.50	0.00000	489524.22	3763028.75	0.00000
489574.22	3763412.75	0.00000	489624.22	3763201.75	0.00000
489674.22	3763596.00	0.00000	489724.22	3763374.75	0.00000
489774.22	3763779.25	0.00000	489824.22	3763547.75	0.00000
489874.22	3763962.50	0.00000	489924.22	3763720.75	0.00000
489974.22	3764145.75	0.00000	490024.22	3763893.75	0.00000

-1039-

Item No. E.3

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 56
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486862.75	3756783.25	0.00017	486939.34	3756847.50	0.00016
487015.94	3756911.75	0.00015	487092.56	3756976.00	0.00014
487169.16	3757040.25	0.00014	487245.75	3757104.50	0.00013
487322.38	3757168.75	0.00012	485457.25	3755490.50	0.00093
485543.84	3755540.50	0.00336	485630.44	3755590.50	0.00207
485717.06	3755640.50	0.00150	485803.66	3755690.50	0.00117
485890.25	3755740.50	0.00095	485976.88	3755790.50	0.00079
486063.47	3755840.50	0.00067	486150.06	3755890.50	0.00057
486236.66	3755940.50	0.00050	486323.28	3755990.50	0.00044
486409.88	3756040.50	0.00039	486496.47	3756090.50	0.00035
486583.09	3756140.50	0.00032	486669.69	3756190.50	0.00029
486756.28	3756240.50	0.00027	486842.88	3756290.50	0.00024
486929.50	3756340.50	0.00023	487016.09	3756390.50	0.00021
487102.69	3756440.50	0.00020	487189.28	3756490.50	0.00018
487275.91	3756540.50	0.00017	487362.50	3756590.50	0.00016
487449.09	3756640.50	0.00015	487535.69	3756690.50	0.00014
487622.31	3756740.50	0.00014	485400.13	3755377.25	0.02267
485494.09	3755411.50	0.01554	485268.91	3755002.00	0.02359
485682.00	3755480.00	0.00351	485775.97	3755514.25	0.00229
485869.94	3755548.25	0.00168	485963.91	3755582.50	0.00131
486057.88	3755616.75	0.00106	486151.88	3755651.00	0.00088
486245.84	3755685.25	0.00074	486339.81	3755719.25	0.00064
486433.78	3755753.50	0.00056	486527.75	3755787.75	0.00049
486621.72	3755822.00	0.00044	486715.69	3755856.25	0.00040
486809.66	3755890.25	0.00036	486903.63	3755924.50	0.00033
486997.59	3755958.75	0.00030	487091.56	3755993.00	0.00028
487185.53	3756027.25	0.00026	487279.50	3756061.25	0.00024
487373.47	3756095.50	0.00022	487467.44	3756129.75	0.00021
487561.41	3756164.00	0.00019	487655.38	3756198.25	0.00018
487749.34	3756232.25	0.00017	487843.31	3756266.50	0.00016
485418.16	3755310.00	0.02683	485615.13	3755344.75	0.01234
485713.59	3755362.00	0.00618	485812.09	3755379.50	0.00379
485910.56	3755396.75	0.00267	486009.03	3755414.25	0.00203
486107.53	3755431.50	0.00163	486206.00	3755449.00	0.00135
486304.47	3755466.25	0.00114	486402.97	3755483.50	0.00099
486501.44	3755501.00	0.00087	486599.91	3755518.25	0.00077
486698.41	3755535.75	0.00069	486796.88	3755553.00	0.00062
486895.38	3755570.50	0.00057	486993.84	3755587.75	0.00052
487092.34	3755605.25	0.00048	487190.81	3755622.50	0.00045
487289.28	3755640.00	0.00042	487387.78	3755657.25	0.00039

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 57
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487486.25	3755674.75	0.00037	487584.72	3755692.00	0.00034
487683.22	3755709.25	0.00033	487781.69	3755726.75	0.00031
487880.16	3755744.00	0.00029	487978.66	3755761.50	0.00028
485324.22	3755240.50	0.02684	485424.22	3755240.50	0.02833
485524.22	3755240.50	0.01179	485624.22	3755240.50	0.01325
485724.22	3755240.50	0.00789	485824.22	3755240.50	0.00540
485924.22	3755240.50	0.00395	486024.22	3755240.50	0.00305
486124.22	3755240.50	0.00246	486224.22	3755240.50	0.00204
486324.22	3755240.50	0.00173	486424.22	3755240.50	0.00149
486524.22	3755240.50	0.00130	486624.22	3755240.50	0.00115
486724.22	3755240.50	0.00103	486824.22	3755240.50	0.00093
486924.22	3755240.50	0.00084	487024.22	3755240.50	0.00077
487124.22	3755240.50	0.00070	487224.22	3755240.50	0.00065
487324.22	3755240.50	0.00060	487424.22	3755240.50	0.00056
487524.22	3755240.50	0.00052	487624.22	3755240.50	0.00049
487724.22	3755240.50	0.00046	487824.22	3755240.50	0.00043
487924.22	3755240.50	0.00040	488024.22	3755240.50	0.00038
485418.16	3755171.00	0.02893	485615.13	3755136.25	0.01513
485713.59	3755119.00	0.00922	485812.09	3755101.50	0.00656
485910.56	3755084.25	0.00496	486009.03	3755066.75	0.00390
486107.53	3755049.50	0.00315	486206.00	3755032.25	0.00260
486304.47	3755014.75	0.00219	486402.97	3754997.50	0.00188
486501.44	3754980.00	0.00164	486599.91	3754962.75	0.00144
486698.41	3754945.25	0.00128	486796.88	3754928.00	0.00115
486895.38	3754910.50	0.00104	486993.84	3754893.25	0.00095
487092.34	3754875.75	0.00087	487190.81	3754858.50	0.00080
487289.28	3754841.00	0.00074	487387.78	3754823.75	0.00069
487486.25	3754806.50	0.00065	487584.72	3754789.00	0.00060
487683.22	3754771.75	0.00057	487781.69	3754754.25	0.00053
487880.16	3754737.00	0.00051	487978.66	3754719.50	0.00048
485400.13	3755103.75	0.03401	485494.09	3755069.50	0.02212
485588.06	3755035.25	0.02000	485682.00	3755001.00	0.01024
485775.97	3754967.00	0.00678	485869.94	3754932.75	0.00502
485963.91	3754898.50	0.00394	486057.88	3754864.25	0.00322
486151.88	3754830.00	0.00270	486245.84	3754796.00	0.00231
486339.81	3754761.75	0.00201	486433.78	3754727.50	0.00177
486527.75	3754693.25	0.00158	486621.72	3754659.00	0.00141
486715.69	3754624.75	0.00128	486809.66	3754590.75	0.00116
486903.63	3754556.50	0.00106	486997.59	3754522.25	0.00098
487091.56	3754488.00	0.00090	487185.53	3754453.75	0.00084

*** ISCT3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 58
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487279.50	3754419.75	0.00078	487373.47	3754385.50	0.00073
487467.44	3754351.25	0.00068	487561.41	3754317.00	0.00064
487655.38	3754282.75	0.00060	487749.34	3754248.75	0.00057
487843.31	3754214.50	0.00054	485457.25	3754990.50	0.02372
485543.84	3754940.50	0.01047	485630.44	3754890.50	0.00656
485717.06	3754840.50	0.00466	485803.66	3754790.50	0.00356
485890.25	3754740.50	0.00286	485976.88	3754690.50	0.00236
486063.47	3754640.50	0.00200	486150.06	3754590.50	0.00172
486236.66	3754540.50	0.00151	486323.28	3754490.50	0.00133
486409.88	3754440.50	0.00119	486496.47	3754390.50	0.00108
486583.09	3754340.50	0.00098	486669.69	3754290.50	0.00089
486756.28	3754240.50	0.00082	486842.88	3754190.50	0.00076
486929.50	3754140.50	0.00071	487016.09	3754090.50	0.00066
487102.69	3754040.50	0.00061	487189.28	3753990.50	0.00058
487275.91	3753940.50	0.00054	487362.50	3753890.50	0.00051
487449.09	3753840.50	0.00049	487535.69	3753790.50	0.00046
487622.31	3753740.50	0.00044	485330.66	3754983.50	0.01860
485407.25	3754919.00	0.00720	485483.88	3754854.75	0.00440
485560.47	3754790.50	0.00314	485637.06	3754726.25	0.00240
485713.66	3754662.00	0.00191	485790.28	3754597.75	0.00156
485866.88	3754533.50	0.00131	485943.47	3754469.25	0.00111
486020.09	3754405.00	0.00096	486096.69	3754340.50	0.00084
486173.31	3754276.25	0.00074	486249.91	3754212.00	0.00066
486326.50	3754147.75	0.00059	486403.13	3754083.50	0.00053
486479.72	3754019.25	0.00049	486556.31	3753955.00	0.00044
486632.91	3753890.75	0.00041	486709.53	3753826.50	0.00037
486786.13	3753762.00	0.00034	486862.75	3753697.75	0.00032
486939.34	3753633.50	0.00030	487015.94	3753569.25	0.00028
487092.56	3753505.00	0.00026	487169.16	3753440.75	0.00024
487245.75	3753376.50	0.00023	487322.38	3753312.25	0.00021
485217.06	3755010.75	0.02704	485281.34	3754934.00	0.00741
485345.63	3754857.50	0.00389	485409.91	3754781.00	0.00255
485474.19	3754704.25	0.00182	485538.47	3754627.75	0.00139
485602.75	3754551.00	0.00110	485667.03	3754474.50	0.00090
485731.31	3754397.75	0.00075	485795.59	3754321.25	0.00064
485859.84	3754244.75	0.00055	485924.13	3754168.00	0.00048
485988.41	3754091.50	0.00042	486052.69	3754014.75	0.00037
486116.97	3753938.25	0.00033	486181.25	3753861.75	0.00030
486245.53	3753785.00	0.00027	486309.81	3753708.50	0.00025
486374.09	3753631.75	0.00023	486438.38	3753555.25	0.00021

*** ISCT3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 59
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486502.63	3753478.50	0.00019	486566.91	3753402.00	0.00018
486631.19	3753325.50	0.00017	486695.47	3753248.75	0.00016
486759.75	3753172.25	0.00015	486824.03	3753095.50	0.00014
486888.31	3753019.00	0.00013	486952.59	3752942.50	0.00012
485174.22	3754980.75	0.01445	485224.22	3754894.00	0.00501
485274.22	3754807.50	0.00267	485324.22	3754721.00	0.00171
485374.22	3754634.25	0.00121	485424.22	3754547.75	0.00091
485474.22	3754461.00	0.00070	485524.22	3754374.50	0.00056
485574.22	3754288.00	0.00046	485624.22	3754201.25	0.00039
485674.22	3754114.75	0.00033	485724.22	3754028.00	0.00029
485774.22	3753941.50	0.00025	485824.22	3753854.75	0.00022
485874.22	3753768.25	0.00020	485924.22	3753681.75	0.00018
485974.22	3753595.00	0.00016	486024.22	3753508.50	0.00014
486074.22	3753421.75	0.00013	486124.22	3753335.25	0.00012
486174.22	3753248.75	0.00011	486224.22	3753162.00	0.00010
486274.22	3753075.50	0.00009	486324.22	3752988.75	0.00009
486374.22	3752902.25	0.00008	486424.22	3752815.75	0.00008
486474.22	3752729.00	0.00007	486524.22	3752642.50	0.00007
485126.84	3754958.50	0.00999	485161.03	3754864.75	0.00388
485195.25	3754770.75	0.00206	485229.44	3754676.75	0.00127
485263.63	3754582.75	0.00087	485297.84	3754488.75	0.00064
485332.06	3754394.75	0.00049	485366.25	3754300.75	0.00038
485400.44	3754206.75	0.00031	485434.66	3754113.00	0.00025
485468.88	3754019.00	0.00021	485503.06	3753925.00	0.00018
485537.25	3753831.00	0.00016	485571.47	3753737.00	0.00014
485605.66	3753643.00	0.00012	485639.88	3753549.00	0.00011
485674.06	3753455.00	0.00010	485708.28	3753361.00	0.00009
485742.47	3753267.25	0.00008	485776.66	3753173.25	0.00008
485810.88	3753079.25	0.00007	485845.09	3752985.25	0.00007
485879.28	3752891.25	0.00006	485913.47	3752797.25	0.00006
485947.69	3752703.25	0.00005	485981.88	3752609.25	0.00005
486016.09	3752515.50	0.00005	486050.28	3752421.50	0.00005
485076.31	3754945.00	0.00825	485093.69	3754846.50	0.00325
485111.06	3754748.00	0.00170	485128.41	3754649.75	0.00103
485145.78	3754551.25	0.00069	485163.16	3754452.75	0.00049
485180.50	3754354.25	0.00037	485197.88	3754255.75	0.00029
485215.25	3754157.25	0.00023	485232.63	3754058.75	0.00019
485249.97	3753960.25	0.00016	485267.34	3753861.75	0.00013
485284.69	3753763.25	0.00012	485302.06	3753664.75	0.00010
485319.44	3753566.25	0.00009	485336.81	3753467.75	0.00008

-1041-

Item No. E.3

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 60
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485354.16	3753369.50	0.00007	485371.53	3753271.00	0.00006
485388.88	3753172.50	0.00006	485406.25	3753074.00	0.00005
485423.63	3752975.50	0.00005	485441.00	3752877.00	0.00004
485458.34	3752778.50	0.00004	485475.72	3752680.00	0.00004
485493.09	3752581.50	0.00004	485510.44	3752483.00	0.00003
485527.81	3752384.50	0.00003	485545.16	3752286.00	0.00003
485024.22	3754940.50	0.00769	485024.22	3754840.50	0.00292
485024.22	3754740.50	0.00153	485024.22	3754640.50	0.00090
485024.22	3754540.50	0.00059	485024.22	3754440.50	0.00042
485024.22	3754340.50	0.00032	485024.22	3754240.50	0.00025
485024.22	3754140.50	0.00020	485024.22	3754040.50	0.00016
485024.22	3753940.50	0.00013	485024.22	3753840.50	0.00011
485024.22	3753740.50	0.00010	485024.22	3753640.50	0.00009
485024.22	3753540.50	0.00008	485024.22	3753440.50	0.00007
485024.22	3753340.50	0.00006	485024.22	3753240.50	0.00005
485024.22	3753140.50	0.00005	485024.22	3753040.50	0.00004
485024.22	3752940.50	0.00004	485024.22	3752840.50	0.00004
485024.22	3752740.50	0.00003	485024.22	3752640.50	0.00003
485024.22	3752540.50	0.00003	485024.22	3752440.50	0.00003
485024.22	3752340.50	0.00003	485024.22	3752240.50	0.00002
484972.13	3754945.00	0.00795	484954.78	3754846.50	0.00286
484937.41	3754748.00	0.00148	484920.03	3754649.75	0.00088
484902.69	3754551.25	0.00058	484885.31	3754452.75	0.00041
484867.94	3754354.25	0.00030	484850.59	3754255.75	0.00023
484833.22	3754157.25	0.00018	484815.84	3754058.75	0.00015
484798.50	3753960.25	0.00012	484781.13	3753861.75	0.00011
484763.75	3753763.25	0.00009	484746.38	3753664.75	0.00008
484729.03	3753566.25	0.00007	484711.66	3753467.75	0.00007
484694.31	3753369.50	0.00006	484676.94	3753271.00	0.00005
484659.56	3753172.50	0.00005	484642.19	3753074.00	0.00004
484624.84	3752975.50	0.00004	484607.47	3752877.00	0.00004
484590.13	3752778.50	0.00004	484572.75	3752680.00	0.00003
484555.38	3752581.50	0.00003	484538.03	3752483.00	0.00003
484520.66	3752384.50	0.00003	484503.28	3752286.00	0.00003
484491.63	3754958.50	0.00925	484487.41	3754864.75	0.00308
484485.22	3754770.75	0.00154	484481.03	3754676.75	0.00093
484784.81	3754582.75	0.00063	484750.63	3754488.75	0.00045
484716.41	3754394.75	0.00033	484682.22	3754300.75	0.00025
484648.00	3754206.75	0.00020	484613.81	3754113.00	0.00016
484579.59	3754019.00	0.00014	484545.41	3753925.00	0.00012

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 61
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484511.19	3753831.00	0.00010	484477.00	3753737.00	0.00009
484442.81	3753643.00	0.00008	484408.59	3753549.00	0.00007
484374.38	3753455.00	0.00006	484340.19	3753361.00	0.00005
484306.00	3753267.25	0.00005	484271.78	3753173.25	0.00005
484237.59	3753079.25	0.00004	484203.38	3752985.25	0.00004
484169.19	3752891.25	0.00004	484134.97	3752797.25	0.00003
484100.78	3752703.25	0.00003	484066.56	3752609.25	0.00003
484032.38	3752515.50	0.00003	483998.16	3752421.50	0.00003
484874.22	3754980.75	0.01303	484824.22	3754894.00	0.00371
484774.22	3754807.50	0.00178	484724.22	3754721.00	0.00109
484674.22	3754634.25	0.00075	484624.22	3754547.75	0.00054
484574.22	3754461.00	0.00040	484524.22	3754374.50	0.00031
484474.22	3754288.00	0.00025	484424.22	3754201.25	0.00020
484374.22	3754114.75	0.00017	484324.22	3754028.00	0.00014
484274.22	3753941.50	0.00012	484224.22	3753854.75	0.00011
484174.22	3753768.25	0.00009	484124.22	3753681.75	0.00008
484074.22	3753595.00	0.00007	484024.22	3753508.50	0.00007
483974.22	3753421.75	0.00006	483924.22	3753335.25	0.00006
483874.22	3753248.75	0.00005	483824.22	3753162.00	0.00005
483774.22	3753075.50	0.00004	483724.22	3752988.75	0.00004
483674.22	3752902.25	0.00004	483624.22	3752815.75	0.00004
483574.22	3752729.00	0.00003	483524.22	3752642.50	0.00003
484767.13	3754934.00	0.00528	484702.84	3754857.50	0.00240
484638.56	3754781.00	0.00139	484574.28	3754704.25	0.00094
484510.00	3754627.75	0.00068	484445.72	3754551.00	0.00052
484381.44	3754474.50	0.00041	484317.16	3754397.75	0.00033
484252.88	3754321.25	0.00028	484188.63	3754244.75	0.00023
484124.34	3754168.00	0.00020	484060.06	3754091.50	0.00017
483995.78	3754014.75	0.00015	483931.50	3753938.25	0.00013
483867.22	3753861.75	0.00012	483802.94	3753785.00	0.00011
483738.66	3753708.50	0.00010	483674.38	3753631.75	0.00009
483610.09	3753555.25	0.00008	483545.81	3753478.50	0.00007
483481.53	3753402.00	0.00007	483417.25	3753325.50	0.00006
483352.97	3753248.75	0.00006	483288.69	3753172.25	0.00006
483224.41	3753095.50	0.00005	483160.16	3753019.00	0.00005
483095.88	3752942.50	0.00005	484717.81	3754983.50	0.01065
484641.22	3754919.00	0.00390	484564.59	3754854.75	0.00208
484488.00	3754790.50	0.00136	484411.38	3754726.25	0.00097
484334.78	3754662.00	0.00072	484258.19	3754597.75	0.00057
484181.59	3754533.50	0.00046	484104.97	3754469.25	0.00039

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 62
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484028.38	3754405.00	0.00033	483951.78	3754340.50	0.00029
483875.16	3754276.25	0.00025	483798.56	3754212.00	0.00023
483721.94	3754147.75	0.00020	483645.34	3754083.50	0.00018
483568.75	3754019.25	0.00017	483492.13	3753955.00	0.00015
483415.53	3753890.75	0.00014	483338.94	3753826.50	0.00013
483262.34	3753762.00	0.00012	483185.72	3753697.75	0.00011
483109.13	3753633.50	0.00011	483032.50	3753569.25	0.00010
482955.91	3753505.00	0.00009	482879.31	3753440.75	0.00009
482802.69	3753376.50	0.00008	482726.09	3753312.25	0.00008
484677.81	3755040.50	0.02555	484591.22	3754990.50	0.01022
484504.63	3754940.50	0.00374	484418.00	3754890.50	0.00233
484331.41	3754840.50	0.00164	484244.81	3754790.50	0.00120
484158.19	3754740.50	0.00091	484071.59	3754690.50	0.00072
483985.00	3754640.50	0.00058	483898.41	3754590.50	0.00048
483811.78	3754540.50	0.00041	483725.19	3754490.50	0.00036
483638.59	3754440.50	0.00032	483552.00	3754390.50	0.00028
483465.38	3754340.50	0.00026	483378.78	3754290.50	0.00023
483292.19	3754240.50	0.00021	483205.59	3754190.50	0.00020
483118.97	3754140.50	0.00018	483032.38	3754090.50	0.00017
482945.78	3754040.50	0.00016	482859.16	3753990.50	0.00015
482772.56	3753940.50	0.00014	482685.97	3753890.50	0.00013
482599.38	3753840.50	0.00012	482512.75	3753790.50	0.00012
482426.16	3753740.50	0.00011	484648.34	3755103.75	0.02353
484554.38	3755069.50	0.01979	484460.41	3755035.25	0.01516
484366.44	3755001.00	0.00511	484272.47	3754967.00	0.00332
484178.50	3754932.75	0.00243	484084.53	3754898.50	0.00184
483990.56	3754864.25	0.00143	483896.59	3754830.00	0.00114
483802.63	3754796.00	0.00093	483708.66	3754761.75	0.00078
483614.69	3754727.50	0.00067	483520.72	3754693.25	0.00058
483426.75	3754659.00	0.00052	483332.78	3754624.75	0.00046
483238.81	3754590.75	0.00041	483144.84	3754556.50	0.00037
483050.88	3754522.25	0.00033	482956.91	3754488.00	0.00030
482862.94	3754453.75	0.00028	482768.97	3754419.75	0.00026
482675.00	3754385.50	0.00024	482581.03	3754351.25	0.00022
482487.06	3754317.00	0.00020	482393.09	3754282.75	0.00019
482299.13	3754248.75	0.00018	482205.16	3754214.50	0.00017
484630.31	3755171.00	0.02178	484531.84	3755153.75	0.01588
484433.34	3755136.25	0.01551	484334.88	3755119.00	0.01265
484236.38	3755101.50	0.00867	484137.91	3755084.25	0.00540
484039.41	3755066.75	0.00399	483940.94	3755049.50	0.00313

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 63
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483842.47	3755032.25	0.00247	483743.97	3755014.75	0.00196
483645.50	3754997.50	0.00161	483547.03	3754980.00	0.00139
483448.53	3754962.75	0.00123	483350.06	3754945.25	0.00111
483251.59	3754928.00	0.00101	483153.09	3754910.50	0.00092
483054.63	3754893.25	0.00084	482956.13	3754875.75	0.00077
482857.66	3754858.50	0.00071	482759.16	3754841.00	0.00066
482660.69	3754823.75	0.00061	482562.22	3754806.50	0.00057
482463.72	3754789.00	0.00054	482365.25	3754771.75	0.00050
482266.78	3754754.25	0.00048	482168.28	3754737.00	0.00045
482069.81	3754719.50	0.00042	484624.22	3755240.50	0.02132
484524.22	3755240.50	0.01615	484424.22	3755240.50	0.01320
484324.22	3755240.50	0.01212	484224.22	3755240.50	0.01581
484124.22	3755240.50	0.02085	484024.22	3755240.50	0.01790
483924.22	3755240.50	0.01779	483824.22	3755240.50	0.01490
483724.22	3755240.50	0.01521	483624.22	3755240.50	0.01639
485270.06	3754972.75	0.01278	483424.22	3755240.50	0.00652
483324.22	3755240.50	0.00357	483224.22	3755240.50	0.00257
483124.22	3755240.50	0.00205	483024.22	3755240.50	0.00171
482924.22	3755240.50	0.00148	482824.22	3755240.50	0.00130
482724.22	3755240.50	0.00116	482624.22	3755240.50	0.00104
482524.22	3755240.50	0.00095	482424.22	3755240.50	0.00087
482324.22	3755240.50	0.00080	482224.22	3755240.50	0.00074
482124.22	3755240.50	0.00069	482024.22	3755240.50	0.00064
484630.31	3755310.00	0.02049	484531.84	3755327.25	0.01601
484433.34	3755344.75	0.01299	484334.88	3755362.00	0.01091
484236.38	3755379.50	0.00937	484137.91	3755396.75	0.00825
484039.41	3755414.25	0.00747	483940.94	3755431.50	0.00699
485244.81	3754972.75	0.01279	483743.97	3755466.25	0.00619
483645.50	3755483.50	0.00582	483547.03	3755501.00	0.00548
483448.53	3755518.25	0.00516	483350.06	3755535.75	0.00503
483251.59	3755553.00	0.00468	483153.09	3755570.50	0.00426
483054.63	3755587.75	0.00384	482956.13	3755605.25	0.00345
482857.66	3755622.50	0.00309	482759.16	3755640.00	0.00278
482660.69	3755657.25	0.00251	482562.22	3755674.75	0.00228
482463.72	3755692.00	0.00208	482365.25	3755709.25	0.00192
482266.78	3755726.75	0.00177	482168.28	3755744.00	0.00164
482069.81	3755761.50	0.00153	484648.34	3755377.25	0.02184
484554.38	3755411.50	0.01602	484424.22	3755001.75	0.02350
484366.44	3755480.00	0.01075	484224.22	3755514.25	0.00924
484178.50	3755548.25	0.00808	484084.53	3755582.50	0.00716

-1043-

Item No. E.3

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 64

CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483990.56	3755616.75	0.00642	483896.59	3755651.00	0.00580
483802.63	3755685.25	0.00527	483708.66	3755719.25	0.00482
483614.69	3755753.50	0.00445	483520.72	3755787.75	0.00412
483426.75	3755822.00	0.00384	483332.78	3755856.25	0.00357
483238.81	3755890.25	0.00334	483144.84	3755924.50	0.00314
483050.88	3755958.75	0.00296	482956.91	3755993.00	0.00279
482862.94	3756027.25	0.00264	482768.97	3756061.25	0.00250
482675.00	3756095.50	0.00237	482581.03	3756129.75	0.00226
482487.06	3756164.00	0.00215	482393.09	3756198.25	0.00206
482299.13	3756232.25	0.00196	482205.16	3756266.50	0.00188
484591.22	3755490.50	0.01496	484504.63	3755540.50	0.01132
484418.00	3755590.50	0.00914	484331.41	3755640.50	0.00765
484244.81	3755690.50	0.00656	484158.19	3755740.50	0.00572
484071.59	3755790.50	0.00505	483985.00	3755840.50	0.00451
483898.41	3755890.50	0.00407	483811.78	3755940.50	0.00369
483725.19	3755990.50	0.00338	483638.59	3756040.50	0.00311
483552.00	3756090.50	0.00287	483465.38	3756140.50	0.00266
483378.78	3756190.50	0.00247	483292.19	3756240.50	0.00231
483205.59	3756290.50	0.00216	483118.97	3756340.50	0.00203
483032.38	3756390.50	0.00191	482945.78	3756440.50	0.00181
482859.16	3756490.50	0.00171	482772.56	3756540.50	0.00162
482685.97	3756590.50	0.00155	482599.38	3756640.50	0.00147
482512.75	3756690.50	0.00141	482426.16	3756740.50	0.00134
484717.81	3755497.75	0.01424	484641.22	3755562.00	0.01002
484564.59	3755626.25	0.00762	484488.00	3755690.50	0.00605
484411.38	3755754.75	0.00494	484334.78	3755819.00	0.00412
484258.19	3755883.25	0.00348	484181.59	3755947.25	0.00298
484104.97	3756011.75	0.00258	484028.38	3756076.25	0.00225
483951.78	3756140.50	0.00198	483875.16	3756204.75	0.00176
483798.56	3756269.00	0.00157	483721.94	3756333.25	0.00141
483645.34	3756397.50	0.00128	483568.75	3756461.75	0.00116
483492.13	3756526.00	0.00105	483415.53	3756590.25	0.00096
483338.94	3756654.75	0.00089	483262.34	3756719.00	0.00082
483185.72	3756783.25	0.00075	483109.13	3756847.50	0.00070
483032.50	3756911.75	0.00065	482955.91	3756976.00	0.00060
482879.31	3757040.25	0.00056	482802.69	3757104.50	0.00053
482726.09	3757168.75	0.00049	484831.38	3755470.25	0.01730
484767.13	3755547.00	0.01058	484702.84	3755623.50	0.00723
484638.56	3755700.25	0.00522	484574.28	3755776.75	0.00392
484510.00	3755853.25	0.00304	484445.72	3755930.00	0.00241

*** ISCST3 - VERSION 02035 *** ** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09

*** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 65

CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484381.44	3756006.50	0.00195	484317.16	3756083.25	0.00161
484252.88	3756159.75	0.00135	484188.63	3756236.25	0.00115
484124.34	3756313.00	0.00098	484060.06	3756389.50	0.00086
483995.78	3756466.25	0.00075	483931.50	3756542.75	0.00067
483867.22	3756619.50	0.00060	483802.94	3756696.00	0.00055
483738.66	3756772.50	0.00050	483674.38	3756849.25	0.00046
483610.09	3756925.75	0.00042	483545.81	3757002.50	0.00039
483481.53	3757079.00	0.00036	483417.25	3757155.50	0.00034
483352.97	3757232.25	0.00032	483288.69	3757308.75	0.00030
483224.41	3757385.50	0.00028	483160.16	3757462.00	0.00027
483095.88	3757538.75	0.00025	484874.22	3755500.25	0.01371
484824.22	3755587.00	0.00813	484774.22	3755673.50	0.00527
484724.22	3755760.25	0.00363	484674.22	3755846.75	0.00262
484624.22	3755933.25	0.00196	484574.22	3756020.00	0.00150
484524.22	3756106.50	0.00119	484474.22	3756193.25	0.00097
484424.22	3756279.75	0.00081	484374.22	3756366.25	0.00069
484324.22	3756453.00	0.00060	484274.22	3756539.50	0.00053
484224.22	3756626.25	0.00048	484174.22	3756712.75	0.00043
484124.22	3756799.25	0.00039	484074.22	3756886.00	0.00036
484024.22	3756972.50	0.00033	483974.22	3757059.25	0.00030
483924.22	3757145.75	0.00028	483874.22	3757232.25	0.00026
483824.22	3757319.00	0.00024	483774.22	3757405.50	0.00023
483724.22	3757492.25	0.00021	483674.22	3757578.75	0.00020
483624.22	3757665.50	0.00019	483574.22	3757752.00	0.00018
483524.22	3757838.50	0.00017	484921.63	3755522.50	0.01143
484887.41	3755616.50	0.00632	484853.22	3755710.25	0.00397
484819.03	3755804.25	0.00266	484784.81	3755898.25	0.00185
484750.63	3755992.25	0.00135	484716.41	3756086.25	0.00105
484682.22	3756180.25	0.00085	484648.00	3756274.25	0.00071
484613.81	3756368.25	0.00061	484579.59	3756462.00	0.00053
484545.41	3756556.00	0.00046	484511.19	3756650.00	0.00041
484477.00	3756744.00	0.00036	484442.81	3756838.00	0.00033
484408.59	3756932.00	0.00030	484374.38	3757026.00	0.00027
484340.19	3757120.00	0.00025	484306.00	3757213.75	0.00023
484271.78	3757307.75	0.00021	484237.59	3757401.75	0.00019
484203.38	3757495.75	0.00018	484169.19	3757589.75	0.00017
484134.97	3757683.75	0.00016	484100.78	3757777.75	0.00015
484066.56	3757871.75	0.00014	484032.38	3757965.50	0.00013
483998.16	3758059.50	0.00013	484972.13	3755536.00	0.00981
484954.78	3755634.50	0.00521	484937.41	3755733.00	0.00318

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 66
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): NORTH , SOUTH , L0001206, L0001207, L0001208, L0001209, L0001210,
 L0001211, L0001212, L0001213, L0001214, L0001215, L0001216, L0001217, L0001218, L0001219, L0001220, L0001221, L0001222,
 L0001223, L0001224, L0001225, L0001226, L0001227, L0001228, L0001229, L0001230, L0001231, L0001232, L0001233, ... ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484920.03	3755831.50	0.00202	484902.69	3755930.00	0.00140
484885.31	3756028.25	0.00106	484867.94	3756126.75	0.00085
484850.59	3756225.25	0.00070	484833.22	3756323.75	0.00059
484815.84	3756422.25	0.00051	484798.50	3756520.75	0.00044
484781.13	3756619.25	0.00039	484763.75	3756717.75	0.00035
484746.38	3756816.25	0.00032	484729.03	3756914.75	0.00029
484711.66	3757013.25	0.00026	484694.31	3757111.75	0.00024
484676.94	3757210.25	0.00022	484659.56	3757308.50	0.00021
484642.19	3757407.00	0.00020	484624.84	3757505.50	0.00018
484607.47	3757604.00	0.00017	484590.13	3757702.50	0.00016
484572.75	3757801.00	0.00015	484555.38	3757899.50	0.00015
484538.03	3757998.00	0.00014	484520.66	3758096.50	0.00013
484503.28	3758195.00	0.00013			

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
 *** West Ridge HRA *** 12:10:05

**MODELOPTS: PAGE 67
 CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZLEV, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.03401 AT (485400.13, 3755103.75, 0.00, 1.50)	DC	NA
	2ND HIGHEST VALUE IS	0.02893 AT (485418.16, 3755171.00, 0.00, 1.50)	DC	NA
	3RD HIGHEST VALUE IS	0.02833 AT (485424.22, 3755240.50, 0.00, 1.50)	DC	NA
	4TH HIGHEST VALUE IS	0.02704 AT (485217.06, 3755010.75, 0.00, 1.50)	DC	NA
	5TH HIGHEST VALUE IS	0.02684 AT (485324.22, 3755240.50, 0.00, 1.50)	DC	NA
	6TH HIGHEST VALUE IS	0.02683 AT (485418.16, 3755310.00, 0.00, 1.50)	DC	NA
	7TH HIGHEST VALUE IS	0.02555 AT (484677.81, 3755040.50, 0.00, 1.50)	DC	NA
	8TH HIGHEST VALUE IS	0.02372 AT (485457.25, 3754990.50, 0.00, 1.50)	DC	NA
	9TH HIGHEST VALUE IS	0.02359 AT (485268.91, 3755002.00, 0.00, 1.50)	DC	NA
	10TH HIGHEST VALUE IS	0.02353 AT (484648.34, 3755103.75, 0.00, 1.50)	DC	NA

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

-1045-

Item No. E.3

*** ISCST3 - VERSION 02035 *** C:\Documents and Settings\staff\Desktop\06192 HRA\HRA.isc *** 10/08/09
*** West Ridge HRA *** 12:10:05
**MODELOPTS: PAGE 68
CONC URBAN FLAT FLGPOL NOCALM NOCMPL

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1398 Informational Message(s)

A Total of 1398 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
*** NONE ***

*** ISCST3 Finishes Successfully ***

ATTACHMENT B

EMISSIONS RATE AND RISK CALCULATIONS

**AVERAGE EMISSION FACTOR
RIVERSIDE COUNTY 2011-2080**

Speed	LHD2	MHD	HHD
0	0.80483	0.81603	0.28084
10	0.04871	0.30746	0.17896
25	0.02680	0.17001	0.09957

Speed	Weighted Average Emissions
0	0.46505
10	0.19666
25	0.10943

Year	Speed	LHD2	MHD	HHD
2011	0 mph	0.865	0.958	1.599
	10 mph	0.09	0.494	1.404
	25 mph	0.05	0.273	0.542
2012	0 mph	0.852	0.938	1.431
	10 mph	0.086	0.468	1.202
	25 mph	0.048	0.259	0.47
2013	0 mph	0.845	0.921	1.271
	10 mph	0.083	0.446	1.013
	25 mph	0.046	0.246	0.403
2014	0 mph	0.838	0.905	1.118
	10 mph	0.081	0.427	0.843
	25 mph	0.045	0.236	0.342
2015	0 mph	0.833	0.893	0.98
	10 mph	0.078	0.41	0.697
	25 mph	0.043	0.227	0.29
2016	0 mph	0.829	0.883	0.857
	10 mph	0.075	0.394	0.576
	25 mph	0.042	0.218	0.247
2017	0 mph	0.825	0.873	0.748
	10 mph	0.073	0.379	0.477
	25 mph	0.04	0.209	0.211
2018	0 mph	0.819	0.864	0.65
	10 mph	0.069	0.365	0.396
	25 mph	0.038	0.201	0.182
2019	0 mph	0.816	0.856	0.567
	10 mph	0.066	0.351	0.33
	25 mph	0.037	0.194	0.158
2020	0 mph	0.812	0.849	0.494
	10 mph	0.064	0.339	0.276
	25 mph	0.035	0.187	0.139
2021	0 mph	0.809	0.843	0.431
	10 mph	0.062	0.33	0.232
	25 mph	0.034	0.182	0.123
2022	0 mph	0.807	0.837	0.377
	10 mph	0.059	0.323	0.197
	25 mph	0.033	0.178	0.11
2023	0 mph	0.806	0.832	0.33
	10 mph	0.057	0.316	0.168
	25 mph	0.032	0.175	0.1
2024	0 mph	0.805	0.827	0.291
	10 mph	0.055	0.31	0.147
	25 mph	0.03	0.171	0.091
2025	0 mph	0.804	0.822	0.258
	10 mph	0.053	0.304	0.13
	25 mph	0.029	0.168	0.085

2026	0 mph	0.804	0.818	0.231
	10 mph	0.052	0.298	0.116
	25 mph	0.028	0.165	0.08
2027	0 mph	0.805	0.815	0.208
	10 mph	0.05	0.294	0.107
	25 mph	0.028	0.162	0.075
2028	0 mph	0.805	0.812	0.191
	10 mph	0.048	0.289	0.099
	25 mph	0.027	0.16	0.072
2029	0 mph	0.805	0.81	0.175
	10 mph	0.047	0.285	0.093
	25 mph	0.026	0.157	0.07
2030	0 mph	0.804	0.807	0.161
	10 mph	0.046	0.281	0.089
	25 mph	0.025	0.155	0.068
2031	0 mph	0.801	0.805	0.15
	10 mph	0.045	0.28	0.085
	25 mph	0.025	0.154	0.066
2032	0 mph	0.801	0.803	0.142
	10 mph	0.045	0.28	0.083
	25 mph	0.025	0.155	0.065
2033	0 mph	0.8	0.801	0.136
	10 mph	0.044	0.282	0.081
	25 mph	0.024	0.155	0.064
2034	0 mph	0.799	0.8	0.131
	10 mph	0.044	0.284	0.079
	25 mph	0.024	0.157	0.063
2035	0 mph	0.797	0.798	0.126
	10 mph	0.044	0.287	0.078
	25 mph	0.024	0.158	0.063
2036	0 mph	0.798	0.798	0.123
	10 mph	0.043	0.286	0.078
	25 mph	0.024	0.159	0.062
2037	0 mph	0.798	0.798	0.121
	10 mph	0.043	0.289	0.077
	25 mph	0.024	0.16	0.062
2038	0 mph	0.798	0.798	0.118
	10 mph	0.043	0.29	0.077
	25 mph	0.024	0.16	0.062
2039	0 mph	0.799	0.799	0.117
	10 mph	0.043	0.29	0.077
	25 mph	0.023	0.16	0.062
2040	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2041	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2042	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2043	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2044	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2045	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2046	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2047	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2048	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2049	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2050	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062

**AVERAGE EMISSION FACTOR
RIVERSIDE COUNTY 2011-2050**

Speed	LHD2	MHD	HHH
0	0.8032	0.8388	0.36988
10	0.05375	0.3213	0.25385
25	0.02965	0.17753	0.12775

Speed	Weighted Average Emissions
0	0.53761
10	0.24851
25	0.12943

Year	Speed	LHD2	MHD	HHH
2011	0 mph	0.865	0.958	1.599
	10 mph	0.09	0.494	1.404
	25 mph	0.05	0.273	0.542
2012	0 mph	0.852	0.938	1.431
	10 mph	0.086	0.468	1.202
	25 mph	0.048	0.259	0.47
2013	0 mph	0.845	0.921	1.271
	10 mph	0.083	0.446	1.013
	25 mph	0.046	0.246	0.403
2014	0 mph	0.838	0.905	1.118
	10 mph	0.081	0.427	0.843
	25 mph	0.045	0.236	0.342
2015	0 mph	0.833	0.893	0.98
	10 mph	0.078	0.41	0.697
	25 mph	0.043	0.227	0.29
2016	0 mph	0.829	0.883	0.857
	10 mph	0.075	0.394	0.576
	25 mph	0.042	0.218	0.247
2017	0 mph	0.825	0.873	0.746
	10 mph	0.073	0.379	0.477
	25 mph	0.04	0.209	0.211
2018	0 mph	0.819	0.864	0.65
	10 mph	0.069	0.365	0.396
	25 mph	0.038	0.201	0.182
2019	0 mph	0.816	0.856	0.567
	10 mph	0.066	0.351	0.33
	25 mph	0.037	0.194	0.158
2020	0 mph	0.812	0.849	0.494
	10 mph	0.064	0.339	0.276
	25 mph	0.035	0.187	0.139
2021	0 mph	0.809	0.843	0.431
	10 mph	0.062	0.33	0.232
	25 mph	0.034	0.182	0.123
2022	0 mph	0.807	0.837	0.377
	10 mph	0.059	0.323	0.197
	25 mph	0.033	0.178	0.11
2023	0 mph	0.806	0.832	0.33
	10 mph	0.057	0.316	0.168
	25 mph	0.032	0.175	0.1
2024	0 mph	0.805	0.827	0.291
	10 mph	0.055	0.31	0.147
	25 mph	0.03	0.171	0.091
2025	0 mph	0.804	0.822	0.258
	10 mph	0.053	0.304	0.13
	25 mph	0.029	0.168	0.085
2026	0 mph	0.804	0.818	0.231
	10 mph	0.052	0.298	0.116
	25 mph	0.028	0.165	0.08
2027	0 mph	0.805	0.815	0.208
	10 mph	0.05	0.294	0.107
	25 mph	0.028	0.162	0.076
2028	0 mph	0.805	0.812	0.191
	10 mph	0.048	0.289	0.099
	25 mph	0.027	0.16	0.072
2029	0 mph	0.805	0.81	0.175
	10 mph	0.047	0.285	0.093
	25 mph	0.026	0.157	0.07
2030	0 mph	0.804	0.807	0.161
	10 mph	0.046	0.281	0.089
	25 mph	0.025	0.155	0.068
2031	0 mph	0.801	0.805	0.15
	10 mph	0.045	0.28	0.085
	25 mph	0.025	0.154	0.066
2032	0 mph	0.801	0.803	0.142
	10 mph	0.045	0.28	0.083
	25 mph	0.025	0.155	0.065
2033	0 mph	0.8	0.801	0.136
	10 mph	0.044	0.282	0.081
	25 mph	0.024	0.155	0.064
2034	0 mph	0.799	0.8	0.131
	10 mph	0.044	0.284	0.079
	25 mph	0.024	0.157	0.063
2035	0 mph	0.797	0.798	0.126
	10 mph	0.044	0.287	0.078
	25 mph	0.024	0.158	0.063
2036	0 mph	0.798	0.798	0.123
	10 mph	0.043	0.288	0.078
	25 mph	0.024	0.159	0.062
2037	0 mph	0.798	0.798	0.121
	10 mph	0.043	0.289	0.077
	25 mph	0.024	0.16	0.062
2038	0 mph	0.798	0.798	0.118
	10 mph	0.043	0.29	0.077
	25 mph	0.024	0.16	0.062
2039	0 mph	0.799	0.799	0.117
	10 mph	0.043	0.29	0.077
	25 mph	0.023	0.16	0.062
2040	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062

2041	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2042	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2043	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2044	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062

2045	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2046	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2047	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2048	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2049	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062
2050	0 mph	0.799	0.799	0.115
	10 mph	0.042	0.289	0.077
	25 mph	0.023	0.16	0.062

Distribution Facility
(HHD Emissions)

OPERATIONAL RELATED ACTIVITY

On-Site Trucking Activity: Area

Vehicle Idle Time (sec) 900
Number of Daily Trucks 1

Emissions Factors¹:

Particulates (PM10) 0.465048 Idle (g/hour)

Idle $Grams = (A \times B)$

Where:

A = $EF_{(idle)}$

B = idle time (hrs)

Total

Composite

Model Emission Rate g/sec/truck

Model Emission Rate g/sec/day

Distribution Facility (HHD Emissions)

OPERATIONAL RELATED ACTIVITY

On-Site Trucking Activity: Area (MITIGATED)

Vehicle Idle Time (sec)	180
Number of Daily Trucks	1

Emissions Factors¹:

Particulates (PM10)	0.465048 Idle (g/hour)
---------------------	------------------------

Idle *Grams = (A x B)*

Where:

A = EF_(idle)

B = idle time (hrs)

Total	0.023 g/hour
-------	--------------

Composite	0.023 g/hour
-----------	--------------

Model Emission Rate 6.459E-06 g/sec/truck

Model Emission Rate 6.459E-06 g/sec/day

Particulate (PM10)

Number of Sources	1
Link Length (meters)	1525.9
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.109

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	2.88E-05
Pollutant Emission Rate (gr/sec/source)	2.88E-05

Particulate (PM10)

Number of Sources	1
Link Length (meters)	47.3
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.197

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Pollutant Emission Rate (gr/sec)	1.61E-06
Pollutant Emission Rate (gr/sec/source)	1.61E-06

Particulate (PM10)

Number of Sources	1
Link Length (meters)	313.8
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.197

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	1.07E-05
Pollutant Emission Rate (gr/sec/source)	1.07E-05

Particulate (PM10)

Number of Sources	1
Link Length (meters)	490.9
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.109

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	9.27E-06
Pollutant Emission Rate (gr/sec/source)	9.27E-06

Particulate (PM10)

Number of Sources	1
Link Length (meters)	74.9
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.197

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	2.54E-06
Pollutant Emission Rate (gr/sec/source)	2.54E-06

Particulate (PM10)

Number of Sources	1
Link Length (meters)	72.2
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.197

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	2.45E-06
Pollutant Emission Rate (gr/sec/source)	2.45E-06

Particulate (PM10)

Number of Sources	1
Link Length (meters)	332
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.197

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	1.13E-05
Pollutant Emission Rate (gr/sec/source)	1.13E-05

Particulate (PM10)

Number of Sources	1
Link Length (meters)	646.3
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.109

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	1.22E-05
Pollutant Emission Rate (gr/sec/source)	1.22E-05

Distribution Facility (HHD Emissions)

OPERATIONAL RELATED ACTIVITY

On-Site Trucking Activity: Area

Vehicle Idle Time (sec)	900
Number of Daily Trucks	1

Emissions Factors¹:

Particulates (PM10)	0.537606 Idle (g/hour)
---------------------	------------------------

Idle *Grams = (A x B)*

Where:

A = EF_(idle)

B = idle time (hrs)

Total	0.134 g/hour
-------	--------------

Composite	0.134 g/hour
-----------	--------------

Model Emission Rate 3.73338E-05 g/sec/truck

Model Emission Rate 3.73338E-05 g/sec/day

Distribution Facility
(HHD Emissions)

OPERATIONAL RELATED ACTIVITY

On-Site Trucking Activity: Area (MITIGATED)

Vehicle Idle Time (sec) 180
 Number of Daily Trucks 1

Emissions Factors¹:

Particulates (PM10) 0.537606 Idle (g/hour)

Idle $Grams = (A \times B)$

Where:

A = $EF_{(idle)}$

B = idle time (hrs)

Total 0.027 g/hour

Composite 0.027 g/hour

Model Emission Rate 7.46675E-06 g/sec/truck

Model Emission Rate 7.46675E-06 g/sec/day

Particulate (PM10)

Number of Sources	1
Link Length (meters)	1525.9
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.129

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	3.41E-05
Pollutant Emission Rate (gr/sec/source)	3.41E-05

Particulate (PM10)

Number of Sources	1
Link Length (meters)	47.3
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.249

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	2.03E-06
Pollutant Emission Rate (gr/sec/source)	2.03E-06

Particulate (PM10)

Number of Sources	1
Link Length (meters)	313.8
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.249

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	1.35E-05
Pollutant Emission Rate (gr/sec/source)	1.35E-05

Particulate (PM10)

Number of Sources	1
Link Length (meters)	490.9
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.129

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	1.10E-05
Pollutant Emission Rate (gr/sec/source)	1.10E-05

Particulate (PM10)

Number of Sources	1
Link Length (meters)	74.9
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.249

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	3.21E-06
Pollutant Emission Rate (gr/sec/source)	3.21E-06

Particulate (PM10)

Number of Sources	1
Link Length (meters)	72.2
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.249

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	3.10E-06
Pollutant Emission Rate (gr/sec/source)	3.10E-06

Particulate (PM10)

Number of Sources	1
Link Length (meters)	332
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.249

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	1.42E-05
Pollutant Emission Rate (gr/sec/source)	1.42E-05

Particulate (PM10)

Number of Sources	1
Link Length (meters)	646.3
Volume/Baseline (VPH)	1
PM10 Vehicular Mass Emission Rate (gr/mi)	0.129

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Pollutant Emission Rate (gr/sec)	1.44E-05
Pollutant Emission Rate (gr/sec/source)	1.44E-05

UNMITIGATED
QUANTIFICATION OF CARCINOGENIC RISKS AND NONCARCINOGENIC HAZARDS
PMI RESIDENTIAL EXPOSURE SCENARIO (70-YEAR)

Source (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			URF (ug/m3) (f)	CPF (mg/kg/day) (g)	RISK (h)	REL (ug/m3) (i)	RfD (mg/kg/day) (j)	Index (k)
Diesel	0.0441	4.4E-05	1.00E+00	Particulates	3.0E-04	1.1E+00	13.4	5.0E+00	1.4E-03	8.8E-03

Note: Exposure factors used to calculate contaminant intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	70
Inhalation Rate (m3/day)*	21.14
Average Body Weight (kg)	70
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	25550

*Inhalation Rate of 21.14 m3/day equates to the ARB breathing 302 liters per kilogram-day

E= 10^x, i.e. E-02 = 10⁻²

U:\UcJobs_06100-06500_06100\06192\Excel\06192-04 HRA Tables.xls]T3

MITIGATED
QUANTIFICATION OF CARCINOGENIC RISKS AND NONCARCINOGENIC HAZARDS
PMI RESIDENTIAL EXPOSURE SCENARIO (70-YEAR)

Source (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			URF (ug/m3) (f)	CPF (mg/kg/day) (g)	RISK (h)	REL (ug/m3) (i)	RfD (mg/kg/day) (j)	Index (k)
Diesel	0.02842	2.8E-05	1.00E+00	Particulates	3.0E-04	1.1E+00	8.6	5.0E+00	1.4E-03	5.7E-03

Note: Exposure factors used to calculate contaminant intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	70
Inhalation Rate (m3/day)*	21.14
Average Body Weight (kg)	70
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	25550

*Inhalation Rate of 21.14 m3/day equates to the ARB breathing 302 liters per kilogram-day

E= 10^X, i.e. E-02 = 10⁻²

U:\UcJobs_06100-06500_06100\06192\Excel\06192-04 HRA Tables.xlsJT3 (2)

-1075-

Item No. E.3

UNMITIGATED
QUANTIFICATION OF CARCINOGENIC RISKS AND NONCARCINOGENIC HAZARDS
RESIDENTIAL EXPOSURE SCENARIO (70-YEAR)

Source (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			URF (ug/m3) (f)	CPF (mg/kg/day) (g)	RISK (h)	REL (ug/m3) (i)	RfD (mg/kg/day) (j)	Index (k)
Diesel	0.03309	3.3E-05	1.00E+00	Particulates	3.0E-04	1.1E+00	10.1	5.0E+00	1.4E-03	6.6E-03

Note: Exposure factors used to calculate contaminant intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	70
Inhalation Rate (m3/day)*	21.14
Average Body Weight (kg)	70
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	25550

*Inhalation Rate of 21.14 m3/day equates to the ARB breathing 302 liters per kilogram-day

E= 10^x, i.e. E-02 = 10⁻²

U:\UcJobs_06100-06500_06100\06192\Excel\06192-04 HRA Tables.xls]T3 (3)

MITIGATED
QUANTIFICATION OF CARCINOGENIC RISKS AND NONCARCINOGENIC HAZARDS
RESIDENTIAL EXPOSURE SCENARIO (70-YEAR)

Source (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			URF (ug/m3) (f)	CPF (mg/kg/day) (g)	RISK (h)	REL (ug/m3) (i)	RfD (mg/kg/day) (j)	Index (k)
Diesel	0.02275	2.3E-05	1.00E+00	Particulates	3.0E-04	1.1E+00	6.9	5.0E+00	1.4E-03	4.6E-03

Note: Exposure factors used to calculate contaminant intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	70
Inhalation Rate (m3/day)*	21.14
Average Body Weight (kg)	70
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	25550

*Inhalation Rate of 21.14 m3/day equates to the ARB breathing 302 liters per kilogram-day

E= 10^X, i.e. E-02 = 10⁻²

U:\UcJobs_06100-06500_06100\06192\Excel\06192-04 HRA Tables.xlsJT3 (4)

-1077-

Item No. E.3

UNMITIGATED
QUANTIFICATION OF CARCINOGENIC RISKS AND NONCARCINOGENIC HAZARDS
WORKER EXPOSURE SCENARIO 40-YEAR EXPOSURE

Source (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			URF (ug/m3) (f)	CPF (mg/kg/day) (g)	RISK (h)	REL (ug/m3) (i)	RfD (mg/kg/day) (j)	Index (k)
Diesel	0.05145	5.1E-05	1.00E+00	Particulates	3.0E-04	1.1E+00	3.1	5.0E+00	1.4E-03	1.0E-02

Note: Exposure factors used to calculate contaminant intake

Exposure Frequency (days/year)	245
Exposure Duration (years)	40
Inhalation Rate (m3/day)*	10.43
Average Body Weight (kg)	70
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	14600

*Inhalation Rate of 10.43 m3/day equates to the ARB breathing 149 liters per kilogram-day

E= 10^x, i.e. E-02 = 10⁻²

U:\UcJobs_06100-06500_06100\06192\Excel\06192-04 HRA Tables.xlsJT5

MITIGATED
QUANTIFICATION OF CARCINOGENIC RISKS AND NONCARCINOGENIC HAZARDS
WORKER EXPOSURE SCENARIO 40-YEAR EXPOSURE

Source (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			URF (ug/m3) (f)	CPF (mg/kg/day) (g)	RISK (h)	REL (ug/m3) (i)	RfD (mg/kg/day) (j)	Index (k)
Diesel	0.03401	3.4E-05	1.00E+00	Particulates	3.0E-04	1.1E+00	2.0	5.0E+00	1.4E-03	6.8E-03

Note: Exposure factors used to calculate contaminant intake

Exposure Frequency (days/year)	245
Exposure Duration (years)	40
Inhalation Rate (m3/day)*	10.43
Average Body Weight (kg)	70
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	14600

*Inhalation Rate of 10.43 m3/day equates to the ARB breathing 149 liters per kilogram-day

E= 10^x, i.e. E-02 = 10⁻²

U:\UcJobs_06100-06500_06100\06192\Excel\06192-04 HRA Tables.xlsJT5 (2)

**MSHCP CONSISTENCY ANALYSIS AND BURROWING OWL HABITAT
ASSESSMENT AND FOCUSED SURVEY FOR THE EUCALYPTUS
INDUSTRIAL DEVELOPMENT (PA07-0083)**

CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, CALIFORNIA

TOTAL AREA SURVEYED: 121.33 ACRES. SUNNYMEAD USGS 7.5-MINUTE TOPOGRAPHIC MAP, TOWNSHIP 3 SOUTH, RANGE 3 WEST, SECTION 2. SURVEY DATES: JULY 1, 11, 12, 13, 14, 2011.

PREPARED FOR:

Prologis
4041 MacArthur Boulevard, Suite 400
Newport Beach, CA 92660
Contact: Jim Jachetta, Vice President, Development
949-251-6111

PREPARED BY:

ICF International
1776 Park Avenue, Suite 146
Redlands, CA 92373
Contact: Mikael Romich, Senior Biologist
909-255-7163

July 2011



ICF International. 2011. *MSHCP Consistency Analysis and Burrowing Owl Habitat Assessment and Focused Survey for the Eucalyptus Industrial Development*. July. (ICF 00442.11.) Redlands, CA.
Prepared for Prologis, Newport Beach, CA.

Contents

List of Tables and Figures	iii
List of Acronyms and Abbreviations.....	iv
Chapter 1 Introduction.....	1-1
1.1 Project Location	1-1
1.2 Project Site Description.....	1-1
Chapter 2 Methodology	2-1
2.1 Habitat Assessment.....	2-1
2.1.1 Literature Review	2-1
2.1.2 Jurisdictional Areas.....	2-1
2.1.3 General Biological Resources Field Investigation	2-1
2.1.4 Burrowing Owl Habitat Assessment and Focused Survey	2-2
Chapter 3 Existing Conditions	3-1
3.1 Topography and Soils	3-1
3.2 Plant Communities.....	3-1
3.2.1 Agriculture	3-1
3.2.2 Ruderal	3-1
3.2.3 Non-Native Grassland.....	3-2
3.2.4 Disturbed Mule Fat Scrub.....	3-2
3.2.5 Jurisdictional Waters	3-3
3.2.6 Nesting Birds.....	3-3
Chapter 4 Western Riverside County MSHCP Consistency Analysis.....	4-1
4.1 MSHCP Requirements	4-1
4.1.1 Urban/Wildlands Interface Guidelines.....	4-1
4.2 Habitat Assessment.....	4-1
4.2.1 Burrowing Owl.....	4-1
4.2.2 Riparian/Riverine Habitat	4-2
4.2.3 Riparian/Riverine Species.....	4-2
4.2.4 Vernal Pools/Fairy Shrimp Habitat	4-3
4.2.5 Species Not Covered under the MSHCP	4-3
4.3 Burrowing Owl Focused Survey	4-3

Chapter 5 **Mitigation Measures** **5-1**

 5.1 Western Riverside County MSHCP..... 5-1

 5.2 Jurisdictional Waters..... 5-2

 5.3 Nesting Birds 5-2

Chapter 6 **Conclusions** **6-1**

Chapter 7 **Certification** **7-1**

Chapter 8 **References** **8-1**

- Appendix A Conservation Summary Report**
- Appendix B Floral and Faunal Compendium**
- Appendix C Site Photographs**
- Appendix D Riverside County Attachments E-3 and E-4**

Tables and Figures

Table

1 Date, Time, and Conditions for Burrowing Owl Focused Surveys 2-3

Figure

Follows Page

1	Regional Vicinity Map	1-1
2	USGS Map	1-1
3	Project Site Map.....	1-1
4	Soils Map.....	3-2
5	Vegetation Map	3-2
6	Riparian/Riverine Map.....	4-2
7	Burrowing Owl Habitat Map.....	4-2

Acronyms and Abbreviations

CBOC	California Burrowing Owl Consortium
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
FESA	federal Endangered Species Act
GIS	geographic information systems
GPS	Global Positioning System
MBTA	Migratory Bird Treaty Act
MSHCP	Multiple Species Habitat Conservation Plan
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey

This report contains the results of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) consistency analysis and the burrowing owl (*Athene cunicularia hypugaea*) habitat assessment and focused survey that took place on a 121.33-acre property located in the city of Moreno Valley, Riverside County, California. The property, hereinafter referred to as project site, is within the Reche Canyon/Badlands Area Plan of the MSHCP; however, it does not fall within any criteria cells.

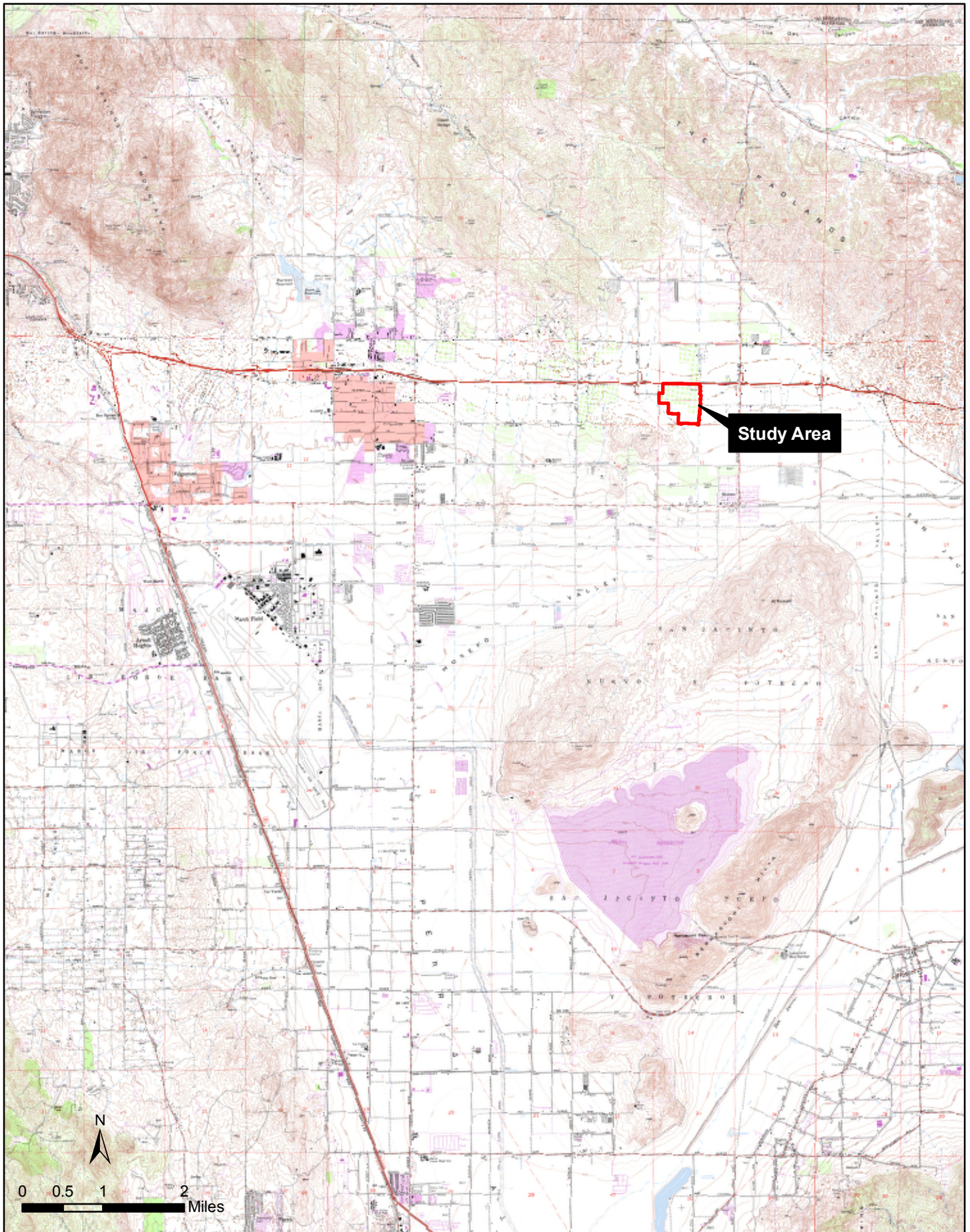
1.1 Project Location

The project site consists of approximately 121.33 acres which are identified as Assessor's Parcel Numbers (APNs) 488-330-011, -012, -013, -017, -018, -019, -022, -023, and -024. Pettit Street forms part of the western boundary of the project site, Fir Avenue forms part of the southern boundary, the Moreno Valley Freeway (SR 60) forms the northern boundary, and an unnamed drainage borders the eastern boundary. The project site is located in Township 3 South, Range 3 West, Section 2 of the Sunnymead U.S. Geological Survey (USGS) 7.5-minute topographic map (1980) (refer to Figure 1 and Figure 2).

1.2 Project Site Description

The ProLogis Park facility proposes 2,244,638 square feet of industrial uses. The proposed project site consists of approximately 121.29 acres and is located directly south of SR 60 between Pettit Street and Quincy Street (refer to Figure 3). Development in the northern portion of the project site, south of SR 60 and north of Eucalyptus Avenue, would provide approximately 1,030,377 square feet of industrial space within two buildings. Development in the southern portion of the site, south of Eucalyptus Avenue, would provide approximately 1,214,261 square feet of industrial space within four buildings.

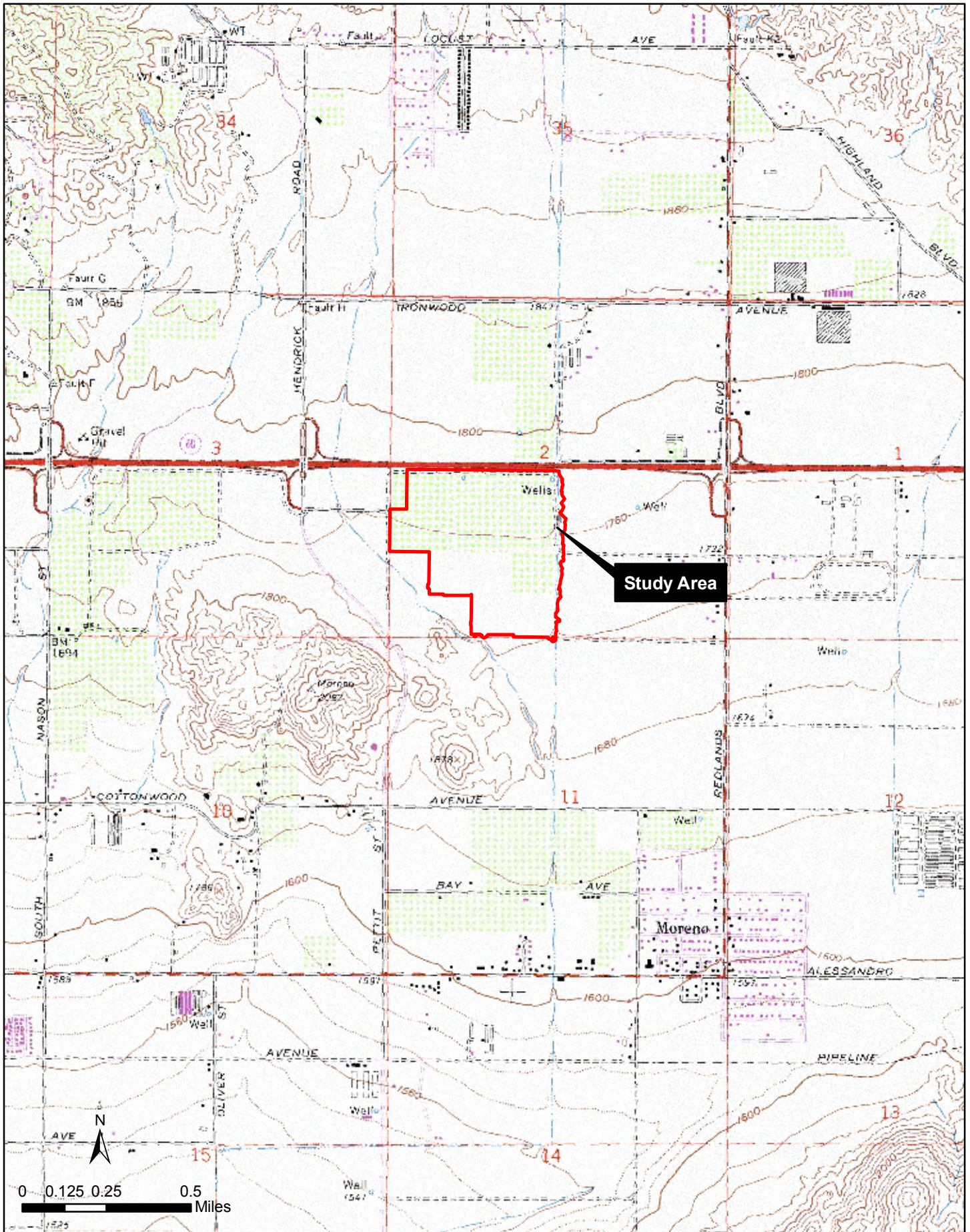
Stormwater runoff would be routed and treated through and by a combination of detention basins, vegetated swales, and sand filters. These detention basins, swales, and sand filters would also be used to detain the incremental increase in flows as well as handle Water Quality Management Plan (WQMP) treatment requirements per the City of Moreno Valley. Landscape improvements would be installed throughout the parking area and would utilize a varied selection of low-water-demand plants and include a water-efficient irrigation system. As part of the proposed project, water quality basins would be developed along the southern portions of Building 1, Building 2, Building 4, Building 5, and Building 6. A bridge would also be built across Quincy Channel to connect the existing Eucalyptus Avenue to the adjacent parcel (Figure 3). Appendix C contains photographs of the project site.



SOURCE: USGS 7.5' Quad, California : Sunnymead (1977)

K:\IRVING\PROJECTS\PROLOGIS\00442_11\MAPDOC\FIG1_REGIONAL_USGS.MXD JK (07-15-11)





K:\IRVINE\GIS\PROJECTS\PROLOGIS\00442_11\MAPDOC\FIG2_USGS.MXD JK (07-15-11)

SOURCE: USGS 7.5' Quad, California : Sunnymead (1977)

2.1 Habitat Assessment

2.1.1 Literature Review

Prior to the field visit, a literature review was conducted to evaluate environmental conditions on the project site. The literature reviewed included the U.S. Department of Agriculture Soil Survey (1971). In addition, the Riverside County Integrated Project Conservation Summary Report (Riverside County Land Information System 2011) was reviewed to assess the habitat and determine survey requirements for the site (Appendix A). To ensure consistency with the requirements set forth in the Western Riverside County MSHCP (Riverside County 2003), including survey requirements for inadequately covered species, the project site was assessed, and geographic information systems (GIS) software was used to map the site in relation to MSHCP areas, including criteria cells, conservation areas, and wildlife movement corridors and linkages; survey areas for plant, bird, mammal, and amphibian species; and the narrow endemic plant survey area.

The MSHCP requires an assessment to determine the potentially significant effects of a project on riparian/riverine areas and vernal pools. According to the MSHCP, documentation for the assessment should include mapping and a description of the functions and values of the mapped areas with respect to the species listed in MSHCP Section 6.1.2, Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools. To that end, the California Natural Diversity Database (California Department of Fish and Game 2011a) and the California Native Plant Society's (CNPS) Electronic Inventory (CNPS 2011a) were consulted for the project site and a 5-mile radius. CNPS species descriptions were also reviewed (CNPS 2011b). The MSHCP was also reviewed to determine habitat assessment requirements as well as the habitat suitability elements for sensitive wildlife species, narrow endemic plant species, and criteria area plant species. The primary objective of the review was to determine the potential for suitable habitat for sensitive plant and wildlife species to be present and the applicability of other MSHCP and California Environmental Quality Act (CEQA) biological resource requirements.

2.1.2 Jurisdictional Areas

A formal assessment and delineation of jurisdictional waters and wetlands was conducted and a report was prepared, which is provided under separate cover (ICF International [ICF] 2011). Methodologies practiced during the delineation of jurisdictional waters and wetlands are detailed in the report.

2.1.3 General Biological Resources Field Investigation

Mikael Romich, biologist for ICF, performed a habitat assessment of the project site on July 1, 2011, between the hours of 6:00 a.m. and 9:00 a.m. Weather conditions were favorable, with clear skies, no appreciable wind, and a temperature of 52 degrees Fahrenheit. The physical parameters assessed included vegetation composition, soil substrate conditions, slope, aspect, hydrology, and disturbance to the land. Special attention was directed toward determining the plant communities that occur on

and in the immediate vicinity of the project site in an effort to qualify its suitability for the sensitive plant and wildlife species that are known to occur in the region.

ICF conducted a riparian/riverine habitat assessment of the project site concurrent with the jurisdictional field delineation (June 30, 2011). The riparian/riverine habitat assessment focused on all drainage features on the project site. Special attention was directed toward features that meet the minimum criteria to be considered riparian/riverine habitat per the definition provided within the MSHCP. All targeted drainage features were carefully inspected to verify the presence of riparian habitat characteristics and evaluate their ability to support associated species (e.g., dominant hydrophytic vegetation, suitable topography and hydrology, and suitable soil substrate). Hydrophytic vegetation in riparian habitats typically consists of trees, shrubs, persistent emergents, or emergent mosses and lichens that occur within or near permanent watersheds or occupy areas with moist soils that occur nearby a freshwater source, as defined in Section 6.1.2 of the MSHCP (page 6-21). The assessment was based on an analysis of the functions and values of these features, including hydrologic regime, flood storage and flood flow modification, nutrient retention and transformation, sediment trapping and transport, toxicant trapping, public use, wildlife habitat, and aquatic habitat.

Plant communities within the project site were mapped using 7.5-minute USGS topographic base maps and aerial photography. The plant communities within the project site were classified according to descriptions provided in Holland's *Preliminary Descriptions of the Terrestrial Natural Communities of California* (1986 and 1992 update).

Common plant species observed during the field survey were identified by visual characteristics and morphology and recorded in a field notebook. Unusual and less familiar plants were identified in the office using taxonomical guides. A comprehensive list of all plant species observed on the project site was compiled from the survey data and is provided in Appendix B of this report.

Wildlife species detected during field surveys by sight, calls, tracks, scat, or other sign were recorded in a field notebook. Field guides were used to assist with identification of species during surveys. Although common names of wildlife species are fairly well standardized, scientific names are used in this report and are provided in Appendix B.

Representative photographs of the study area are provided in Appendix C.

Taxonomy and nomenclature used in this report follow Hickman (1993) for plants, Collins and Taggart (2009) for native herpetiles (amphibians, reptiles, and relatives), American Ornithologists' Union (1998) and 2010 supplement for birds, and Wilson and Reeder (2005) for mammals. . In this report, scientific names are provided immediately following common names of plant species for the first reference only.

2.1.4 Burrowing Owl Habitat Assessment and Focused Survey

2.1.4.1 Habitat Assessment and Burrow Mapping

Mikael Romich, biologist for ICF, performed a habitat assessment and burrow mapping for burrowing owl on the project site on July 1, 2011, between the hours of 6:00 a.m. and 9:00 a.m. Weather conditions were favorable, with clear skies, no appreciable wind, and a temperature of 52 degrees Fahrenheit.

Habitat assessment and burrow mapping used a systematic approach to survey burrows. This involved walking through potentially suitable habitat within the survey area (i.e., the project site and a 500-foot buffer, where accessible) to have 100 percent visual coverage of the ground surface. The distance between transect center lines was no more than 30 meters (approximately 100 feet), which was reduced to account for differences in terrain, vegetation density, and ground surface visibility. The locations of all suitable burrowing owl habitat, potential owl burrows, burrowing owl sign, and any owls observed were recorded and mapped, including Global Positioning System (GPS) coordinates. Natural or man-made structures and debris piles that could support burrowing owls were also noted and mapped. Soil conditions, topography, vegetative communities, and habitat quality were also documented. All encountered burrows were checked for the presence of feathers, scat, pellets, tracks, or other indications of use by burrowing owls.

2.1.4.2 Focused Survey

Instructions for burrowing owl surveys from the Western Riverside MSHCP (March 29, 2006) were followed. Four site visits occurred during the nesting season (March through August). Surveys were conducted from 2 hours before sunset to 1 hour after or from 1 hour before sunrise to 2 hours after and during weather that was conducive to observing owls outside their burrows and detecting burrowing owl sign. Surveys are not conducted during rain, high winds (> 20 mph), dense fog, or temperatures above 90 degrees Fahrenheit. All areas within the project site and a 500-foot buffer where suitable habitat and mapped burrows occur were included in the focused survey. Table 1 summarizes the focused burrowing owl surveys.

Table 1. Date, Time, and Conditions for Burrowing Owl Focused Surveys

Date	Time	Biologist	Conditions
7/1/2011	0740 to 1050	Mikael Romich	Temperature 72°F to 85°F, high fog, calm, visibility very good, no dew
7/11/2011	0550 to 0735	Mikael Romich	Temperature 60°F, high fog, calm, visibility good, no dew, sunrise at 0546
7/12/2011	0550 to 0800	Mikael Romich	Temperature 61°F, high fog, calm, visibility good, no dew, sunrise at 0547
7/13/2011	0545 to 0750	Lisa Franklin	Temperature 62°F, high fog, calm, visibility good, no dew, sunrise at 0547
7/14/2011	0540 to 0740	Lisa Franklin	Temperature 60°F, high fog, calm, visibility good, no dew, sunrise at 0548

3.1 Topography and Soils

The project site is located within the Moreno Valley, south of the Badlands. Overall, it is relatively flat, with a slight southward grade. The elevation range is approximately 1,724 to 1,788 feet above mean sea level. The dominant vegetation on the site consists of agricultural (citrus) and ruderal species. Two unnamed blue-line streams occur on and near the project site, on both the western and eastern boundaries.

The site is mapped as containing six separate soil-mapping units belonging to three separate soil series (Figure 4). A soil series is a group of soils with similar profiles. These profiles include major horizons with similar thicknesses, arrangements, and other important characteristics. The site is mapped as being dominated by San Emigdio loam. The site is also mapped as containing Hanford coarse sandy loam and Metz loamy fine sand (U.S. Department of Agriculture 1971). No other mapped soil series is present on site. The observed surface soils on the project site contain evidence of heavy disturbance from agriculturally related activities.

The San Emigdio series consists of very deep, well-drained soils that formed in predominantly sedimentary alluvium. San Emigdio soils are on fans and floodplains and have slopes of 0 to 15 percent. The Hanford series consists of very deep, well-drained soils that formed in moderately coarse textured alluvium, predominantly from granite. Hanford soils are on stream bottoms, floodplains, and alluvial fans and have slopes of 0 to 15 percent. The Metz series consists of very deep, somewhat excessively drained soils that formed in alluvial material from mixed but predominantly sedimentary rocks. Metz soils are on floodplains and alluvial fans and have slopes of 0 to 15 percent.

None of the soils present are considered sensitive by the MSHCP.

3.2 Plant Communities

Figure 5 shows that the project site consists of four plant communities: agriculture, ruderal, non-native grassland, and mule fat scrub. See Appendix B for a complete list of plant species identified in the study area, including nonnative and invasive species.

3.2.1 Agriculture

The northern and eastern 55.67 acres of the project site contains citrus trees (orange and grapefruit). They are currently leafy and green.

3.2.2 Ruderal

The 48.15-acre ruderal plant community on the project site is dominated by weedy vegetation, which is typically associated with past disturbance. Disturbances that create ruderal areas are commonly a result of anthropogenic impacts or, as is the case in this situation, attributed to past

agricultural activities and regular disking (the site was partially disked between July 1 and 11). The ruderal plant community on the project site is dominated by several mustard species (*Brassica* spp.), annual bur ragweed (*Ambrosia acanthicarpa*), Russian thistle (*Salsola tragus*), cheeseweed (*Malva parviflora*), and non-native grass species.

3.2.3 Non-Native Grassland

Non-native grassland, a prevalent community throughout California, is generally characterized by a dense-to-sparse cover of non-native annual grasses and often associated with numerous weedy species as well as some native annual forbs, such as wildflowers that emerge, especially in years of plentiful rain. Seed germination occurs with the onset of winter rains. Some plant growth occurs in winter, but most growth and flowering occurs in the spring. Plants then die in the summer but persist as seeds in the uppermost layers of the soil until the next rainy season. Dominant plant species typically found within non-native grassland include bromes (*Bromus* spp.), wild oats (*Avena* spp.), fescues (*Vulpia* spp.), and barleys (*Hordeum* spp.).

Non-native grassland occurs on 18.45 acres in the southern portion of the project site. Because of the presence of wild oat species, this may have been part of an agricultural crop in the past.

3.2.4 Disturbed Mule Fat Scrub

A degraded drainage channel occurs along the eastern boundary of the project site. It appears to be severely eroded, perhaps a result of nearby agricultural activities. The area is heavily disturbed and contains a number of non-native species, including Peruvian pepper (*Schinus molle*), tree tobacco (*Nicotiana glauca*), castor bean (*Ricinus communis*), eucalyptus (*Eucalyptus* spp.), and tree of heaven (*Ailanthus altissima*). However, patches of mule fat (*Baccharis salicifolia*), one Goodding's black willow tree (*Salix gooddingii*), and several California black walnuts (*Jugulans californica*) also occur within the drainage. In addition, large amounts of trash are found within and adjacent to the drainage. In total, approximately 4.59 acres of disturbed mule fat vegetation overlaps the project site.

3.2.5 Non-Native Woodland

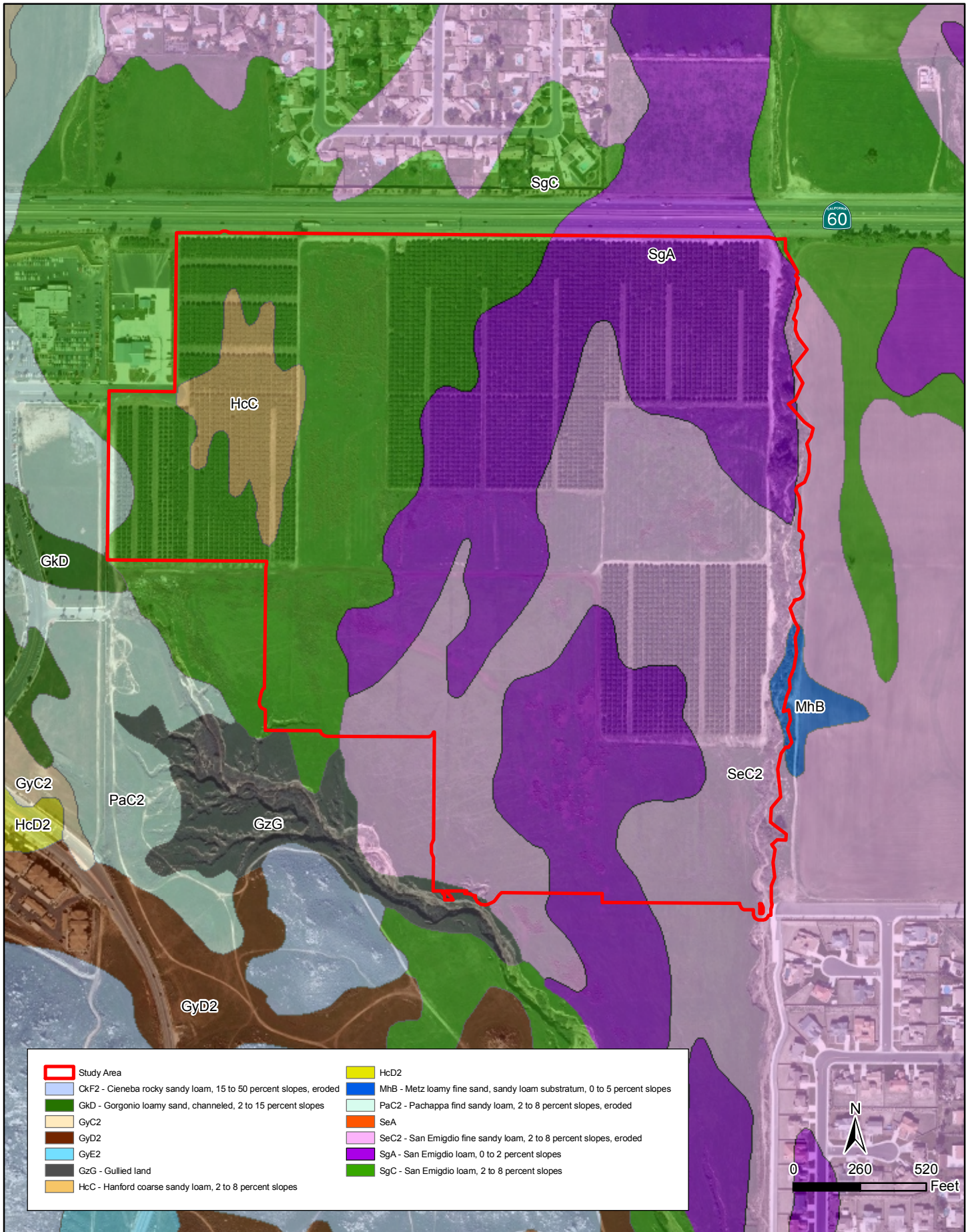
Several patches of non-native woodland occur within and adjacent to the degraded drainage channel. These consist of eucalyptus trees and Peruvian pepper. Non-native woodland occurs on approximately 0.06 acre of the project site.

3.2.6 Unvegetated Streambed

Several patches of sands with little to very sparse vegetation occur within the drainage channel that occurs along the eastern boundary of the project site. For the purposes of this report these have been classified as unvegetated streambed. Unvegetated streambed occurs on approximately 0.08 acre of the project site.

3.2.7 Channel-Upland Vegetation

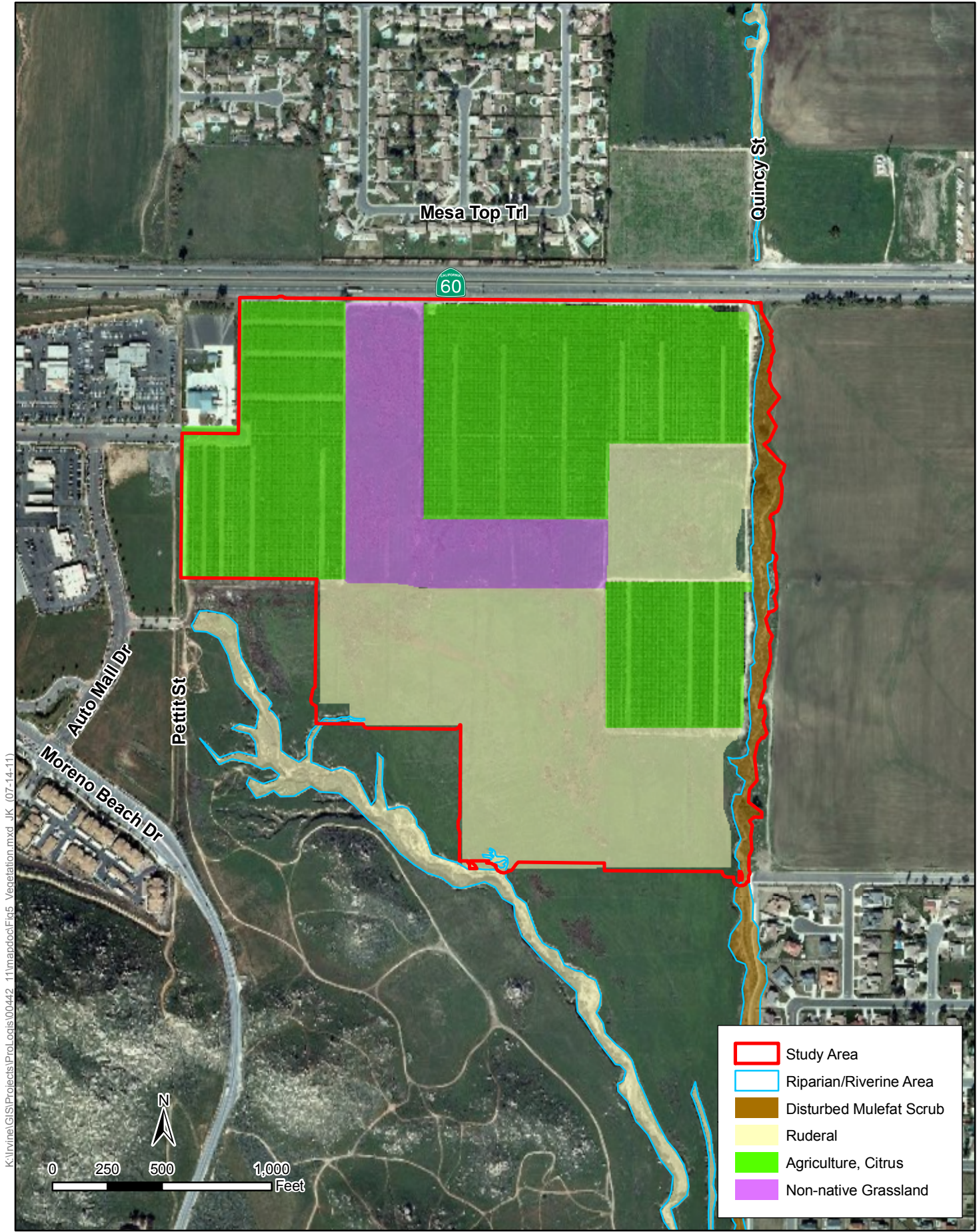
There are several eroded channels that occur within the project site on the western boundary. These are somewhat steep sided and are dominated by upland species, predominantly non-native grassland, that are interspersed with open unvegetated areas. For the purposes of this report these



K:\R\INE\GIS\PROJECTS\PROLOGIS\00442_11\MAPDOC\FIG4_SOIL.MXD JK (07-14-11)

SOURCE: ESRI USA Imagery (2007)





SOURCE: ESRI USA Imagery (2007)

have been classified as channel-upland vegetation. Channel-upland vegetation occurs on approximately 0.14 acre of the project site.

3.3 Jurisdictional Waters

Two ephemeral drainages that occur on the project site show evidence of a bed and bank and may be considered jurisdictional by regulatory agencies. One occurs along the eastern boundary, also known as Quincy Channel and one along the western boundary. The eroded channel that occurs within the project site on the western boundary is dominated by upland species. Quincy Channel has some disturbed mule fat scrub habitat. These drainages meet south of the project site and appear to drain to the San Jacinto River. Because of the presence of these potential jurisdictional features, a formal jurisdictional delineation was recommended and prepared by ICF (2011).

3.4 Nesting Birds

Avian nesting habitat occurs throughout the project site. Bird species that nest on the project site, which were seen and heard, include Bullock's oriole (*Icterus bullockii*), song sparrow (*Melospiza melodia*), blue grosbeak (*Guiraca caerulea*), California towhee (*Pipilo crissalis*), and Bewick's wren (*Thryomanes bewickii*). A red-tailed hawk (*Buteo jamaicensis*) nest exists within one of the eucalyptus trees on the eastern boundary of the site. Potential impacts on nests of these species are not covered by the MSHCP and must be analyzed separately in the CEQA document.

Western Riverside County MSHCP Consistency Analysis

4.1 MSHCP Requirements

The project site is located in the Reche Canyon/Badlands Area Plan of the MSHCP; however it does not overlap a MSHCP criteria cell (Riparian/Riverine Map - Figure 6). The nearest MSHCP criteria cell is 841 (of cell group T), located approximately 1 mile to the northeast.

The MSHCP establishes habitat assessment requirements for certain plant, bird, mammal, and amphibian species. The project site overlaps only the habitat assessment area for burrowing owl. Therefore, all other species requiring a habitat assessment, as well as fully covered MSHCP species, are not discussed further in this report, although a small number of species that are not covered by the MSHCP are discussed in Section 4.2.5, below. The MSHCP has no survey area map for species associated with riparian/riverine areas. Potential survey areas for these species will be derived from project-specific riparian/riverine area mapping.

No riparian habitat occurs on the project site that would be suitable for MSHCP riparian species (see Appendix D for the required MSHCP forms).

4.1.1 Urban/Wildlands Interface Guidelines

According to the Section 6.1.4 of the MSHCP, the Urban/Wildlands Interface Guidelines are intended to address indirect effects associated with locating development in proximity to MSHCP conservation areas (Riverside County 2003). The project site is not adjacent to any MSHCP conservation areas. Consequently, the Urban/Wildlife Interface Guidelines would not need to be incorporated into the project.

4.2 Habitat Assessment

4.2.1 Burrowing Owl

The entire project site is included in the MSHCP habitat assessment area for burrowing owl. Because of its decline in the state of California over the past 30 years, burrowing owl is a state species of concern. It occurs in grasslands, lowland scrub, agricultural lands (particularly rangelands), and some artificial open areas as a year-long resident. Burrowing owl may also use golf courses, cemeteries, rights-of-way for roads within cities, airports, vacant lots in residential areas and university campuses, fairgrounds, abandoned buildings, and irrigation ditches. As a critical need with respect to habitat features, burrowing owl requires rodent or other fossorial burrows for roosting and nesting cover, with the preferred burrow being that of the California ground squirrel (*Spermophilus beecheyi*). Burrowing owl may also use pipes, culverts, and nest boxes where burrows are scarce. One burrow is typically selected for use as the nest; however, satellite burrows are usually found within the defended territory (Haug et al. 1993).

The nearest burrowing owl record occurs approximately 5 miles southwest of the project site (California Department of Fish and Game 2011b). The project site is highly suitable for burrowing owl because of the presence of eroded channel banks, burrows, and abundant foraging habitat. However, no burrowing owls were observed during the habitat assessment. Although an approximately 54-acre citrus orchard exists on the project site, this area is not considered suitable for foraging or burrowing by burrowing owl. Most of the non-native grassland and ruderal plant communities are also not suitable because of the height and density of the non-native vegetation. However, along the western drainage channel, numerous suitable burrows and debris piles with surrounding vegetation were found. This vegetation is lower in height. There are also several burrows and debris piles along the eastern drainage channel, although it is less suitable because of taller vegetation. Finally, several scattered burrows, which could be suitable for burrowing owl, were found along existing dirt roads. Figure 7 shows the suitable burrowing owl features that were identified. Because of the presence of suitable burrowing owl habitat, a focused burrowing owl survey was conducted in July 2011 to determine if the species is present (see Section 4.3, below).

4.2.2 Riparian/Riverine Habitat

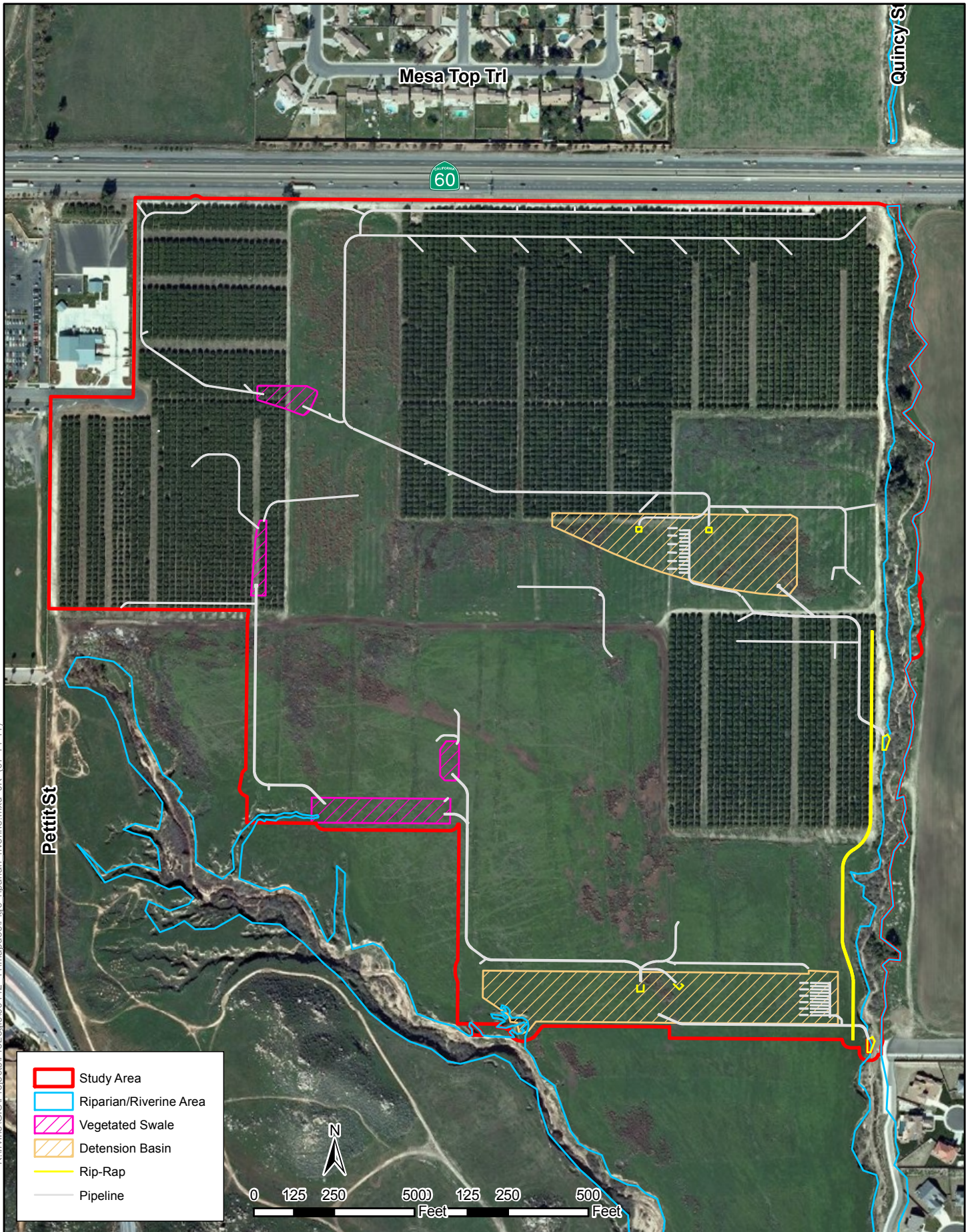
Section 6.1.2 of the Western Riverside County MSHCP describes the process to protect species associated with riparian/riverine areas and vernal pools. As defined in the MSHCP, riparian/riverine areas are lands that contain habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens that occur close to or depend on a nearby freshwater source or areas that contain a freshwater flow during all or a portion of the year. These habitats may support one or more of the species listed in Section 6.1.2 of the MSHCP.

An unnamed drainage feature traverses the western boundary of the site. The unnamed drainage feature originates in the northwest quadrant of the site, runs from northwest to southeast, then eventually exits the site along the southern boundary. The feature, which is deeply incised and heavily eroded, is vegetated by upland plant species. No riparian vegetation exists within this feature on the project site.

Quincy Channel traverses the eastern boundary of the site. It originates in the northeast quadrant of the site, runs from north to south, then eventually exits the site along the southern boundary. The feature contains heavily disturbed riparian habitat (i.e., 0.6-acre of a mule fat scrub community). Because Quincy Channel, including the mule fat scrub community, will be affected by the proposed project, a determination of a biologically equivalent or superior preservation (DBESP) analysis has been prepared (ICF 2011).

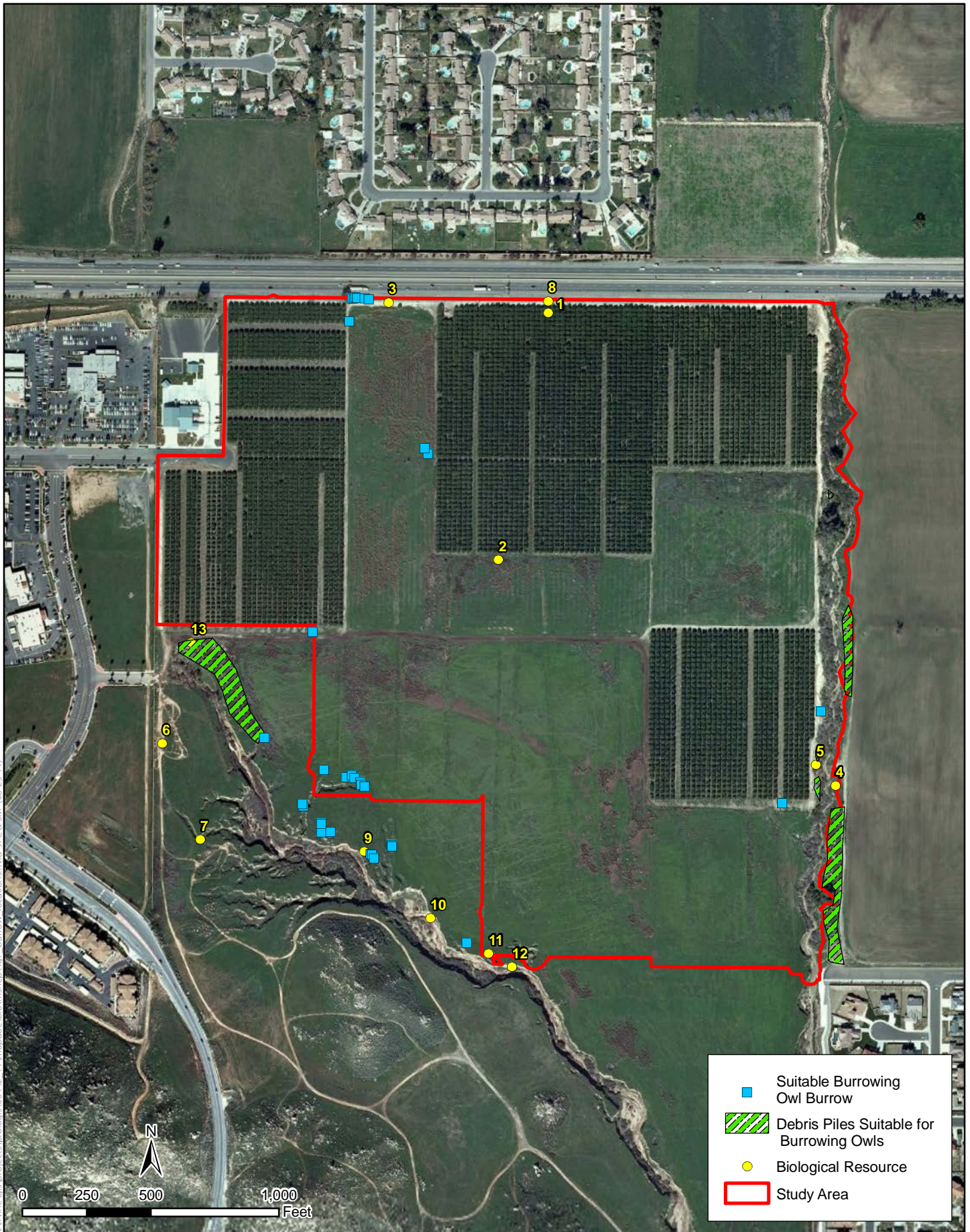
4.2.3 Riparian/Riverine Species

The riparian/riverine habitat that occurs on the project site is very small in area and heavily disturbed, perhaps due to the proximity of agriculture (Figure 5). Mule fat, as well as a number of non-native species and a large amount of trash, occurs in a channel that supports riparian vegetation. However, because of the lack of vertical complexity, the existing riparian habitat does not provide suitable habitat for any of the bird species listed in Section 6.1.2 of the MSHCP. No additional focused surveys will be necessary.



K:\Irvine\GIS\Projects\ProLogis\00442_11\mapdoc\Fig6_riparian_riverine.mxd JK (07-14-11)

SOURCE: ESRI USA Imagery (2007)



K:\irvine\gis\projects\prologis\00442_11\mapdoc\bio\mshcp\ig7_burrow_locations.mxd #FC & SM (08-23-11)

SOURCE: ESRI USA Imagery (2007)

- Suitable Burrowing Owl Burrow
- Debris Piles Suitable for Burrowing Owls
- Biological Resource
- Study Area



Figure 7
Biological Resource Map
ProLogis⁵ Buc: Item No. E.3
 Resoluti...
 February 25, 2014

4.2.4 Vernal Pools/Fairy Shrimp Habitat

Vernal pools are seasonal wetlands that occur in depression areas and have wetland indicators that represent all three parameters (i.e., soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetland indicators associated with vegetation and/or hydrology during the drier portion of the growing season. No area of ponding or evidence of standing water was observed during the site assessment. The site consists of sandy loam and loamy sand substrates, which are well drained and thus would not support vernal pools or vernal pool species. In addition, no areas that support hydrophytic vegetation were observed on site, except within the eastern channel where a small amount of mule fat scrub was present. No vernal pool or fairy shrimp habitat occurs on the project site, and no further actions related to vernal pools are required pursuant to the MSHCP.

4.2.5 Species Not Covered under the MSHCP

The project site supports grasshopper sparrow (*Ammodramus savannarum*), which was observed during the focused burrowing owl surveys. Grasshopper sparrow is a California species of special concern. It is not considered adequately conserved under the MSHCP. Removal of habitat with a low-density grasshopper sparrow population would be considered a less-than-significant impact under CEQA. The MSHCP, in Table 9-3, states that for this species to become a “covered species, adequately conserved,” the following conservation must be demonstrated:

- Include within the MSHCP conservation area at least 8,000 acres in seven core areas.

The project site provides potentially suitable habitat for American badger (*Taxidea taxus*), a California species of special concern. During the habitat assessment and focused surveys for burrowing owl, badger den sites were not observed on the project site. Although badger could use the site periodically during movement, because of the proximity of urban development, city streets, and SR 60, the likelihood of finding the species on site would be low. The removal of habitat with a low potential to support movement habitat for American badger would be considered a less-than-significant impact under CEQA.

No special-status bat species are covered under the MSHCP. Habitat on the project site may be used occasionally by foraging bat species; however, because no potential roosting habitat is present within the development footprint, impacts on bat species would be limited to potential foraging habitat. The removal of potential bat foraging habitat would be considered a less-than-significant impact under CEQA.

The project site does not provide suitable habitat for any other species that is not covered under the MSHCP.

4.3 Burrowing Owl Focused Survey

Although no burrowing owls or burrowing owl sign was detected during the focused surveys, the study area does support suitable features, such as California ground squirrel burrows and debris piles (see Figure 7).

Because no burrowing owls were observed using any of the suitable burrows during the focused breeding survey, it was concluded that they are absent from the project site and the 500-foot buffer. To confirm the continued absence of burrowing owls at the project site, a MSHCP 30-day

preconstruction protocol survey is recommended and is included as mitigation measure MM-2, described below.

5.1 Western Riverside County MSHCP

The project site falls within the MSHCP fee area and the Stephens' kangaroo rat (*Dipodomys stephensi*) fee area. Payment of these development mitigation fees, as well as compliance with the requirements of Section 6.0 of the MSHCP, is intended to provide full mitigation under CEQA, the National Environmental Policy Act, the California Endangered Species Act (CESA), and the federal Endangered Species Act (FESA) for impacts on species and habitats covered by the MSHCP, pursuant to agreements with the U.S. Fish and Wildlife Service and the California Department of Fish and Game (CDFG), as set forth in the implementing agreement for the MSHCP.

The following measures, which are standard conditions required under the MSHCP, would reduce project-related impacts on species covered under the MSHCP to less than significant:

MM-1 The project applicant will pay the development mitigation fees associated with the MSHCP (MSHCP fee and Stephens' kangaroo rat fee), which will be based on the number of acres affected. The fee will be paid to the city of Moreno Valley during the processing of the proposed project. Payment of SKR impact fees is made before issuance of a grading permit, while MSHCP fees are paid before issuance of building permits.

MM-2 A preconstruction survey is required for burrowing owl to confirm the continued absence of this species from the site. The survey will be conducted by a qualified biologist 30 days prior to ground disturbance in accordance with MSHCP survey requirements to avoid direct take of burrowing owls. If burrowing owls are determined to occupy the project site or the immediate vicinity, the city of Moreno Valley Planning Department will be notified, and avoidance measures will be implemented. Implementation of avoidance measures will be executed pursuant to the MSHCP, California Fish and Game Code, the Migratory Bird Treaty Act (MBTA), and the Burrowing Owl Survey and Mitigation Guidelines prepared by the California Burrowing Owl Consortium (CBOC) (CBOC 1993) and reviewed by CDFG.

A burrow is considered occupied when there is confirmed use by burrowing owl. If a burrow is found to be occupied by burrowing owl during the preconstruction survey, consultation with the city and/or the county would be required.

The following measures are recommended in the CBOC guidelines to avoid an occupied burrow (CBOC 1993):

- No disturbance within approximately 160 feet of an occupied burrow during the non-breeding season (September 1 to January 31), or
- No disturbance within approximately 250 feet of an occupied burrow during the breeding season (February 1 to August 31).

For unavoidable impacts, passive or active relocation of burrowing owls would be implemented. Passive relocation would be conducted by a qualified biologist in accordance with procedures set forth by the MSHCP and the CBOC. Passive relocation of occupied burrows would be conducted outside the breeding season, pursuant to the California Fish and Game Code and the MBTA.

MM-3 If impacts are to occur on MSHCP-defined riparian/riverine areas, which are found within the eastern drainage, a DBESP must be prepared. The DBESP will detail the level of disturbance/removal of riparian/riverine habitat; the consequential impacts, if any, on riparian/riverine species; and mitigation measures to reduce impacts to a negligible level. The DBESP must also document in detail why full avoidance of this resource cannot be accomplished.

5.2 Jurisdictional Waters

MM-4 Two drainage features occur within the project site, and impacts resulting from the proposed project may require permits from the U.S. Army Corps of Engineers (USACE), CDFG, and the Regional Water Quality Control Board. If it is determined that impacts on jurisdictional features will occur, the following permits will be required and submitted to the city of Moreno Valley:

- A permit from USACE pursuant to Section 404 of the Clean Water Act,
- Water quality certification pursuant to Section 401 of the Clean Water Act, and
- A Streambed Alteration Agreement from CDFG.

5.3 Nesting Birds

Under CEQA, the proposed project may result in significant impacts on nesting bird species that are protected under the California Fish and Game Code and the MBTA. Therefore, ICF recommends that clearing and grubbing activities avoid the general avian nesting season (i.e., from February 1 to August 31). If clearing and grubbing must take place during the nesting season, the following preconstruction survey will be implemented to ensure that no significant impacts on nesting birds occur as a result of the proposed project:

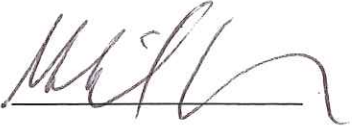
MM-5 If clearing and grubbing occurs during the nesting season (February to August), a nesting bird survey will be conducted approximately 7 days prior to any vegetation disturbance activities. If bird nests are found or there is evidence of nesting behavior inside the impact area, an exclusion buffer, as determined by the wildlife biologist, will be set in place around the nest, and no vegetation disturbance will be permitted. For raptor species, such as hawks and owls, this buffer can be as large as 500 feet. A qualified biologist will closely monitor nests until it is determined that they are no longer active, at which time construction activity can continue.

Chapter 6 Conclusions

A Western Riverside County MSHCP consistency analysis and a burrowing owl habitat assessment and focused survey took place on a 121.3-acre property located in the city of Moreno Valley, Riverside County, California. With payment of development mitigation fees and implementation of the proposed mitigation measures for potential project-related impacts on burrowing owl, riparian/riverine habitat, jurisdictional waters, and nesting birds, the project will fulfill the requirements related to biological resources pursuant to CEQA, FESA, CESA, and the MSHCP.

Chapter 7 Certification

I hereby certify that the statements furnished above and in the attached figures present data and information required for this habitat assessment and that the facts, statements, and information presented in this habitat assessment are true and correct to the best of my knowledge and belief.



Mikael Romich
Senior Biologist

7/27/11

Date

Chapter 8 References

- American Ornithologists' Union. 1998. *Checklist of North American Birds*, 7th edition: 10th Supplement. American Ornithologists' Union, Washington, D.C.
- California Burrowing Owl Consortium. 1993. *Burrowing Owl Survey Protocol and Mitigation Guidelines*. Available: <<http://www.dfg.ca.gov/wildlife/species/docs/boconsortium.pdf>>.
- California Department of Fish and Game. 2011a. *California Natural Diversity Database*. Element reports for the Sunnymead, California, and immediately surrounding USGS 7.5-minute quadrangle maps. Sacramento, CA: California Department of Fish and Game, Wildlife Habitat Data Analysis Branch, Habitat Conservation Division.
- California Department of Fish and Game. 2011b. *Special Animals*. Sacramento, CA: The Resources Agency, California Department of Fish and Game, California Natural Diversity Database. Available: <<http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/SPAnimals.pdf>>. Accessed: July 12, 2011.
- California Native Plant Society. 2011a. Nine-quadrangle search for rare plants within Sunnymead. Available: <http://cnps.web.aplus.net/cgi-bin/inv/inventory.cgi/Html?item=checkbox_9.htm#q9>.
- California Native Plant Society. 2011b. *Inventory of Rare and Endangered Plants* (online edition, v7-08b). Sacramento, CA. Available: <<http://www.cnps.org/inventory>>. Accessed: July 12, 2011.
- Collins, J.T. and T.W. Taggart. 2009. Standard Common and Current Scientific Names for North American Amphibians, Turtles, Reptiles, and Crocodylians. Sixth Edition. Center for North American Herpetology, Lawrence, Kansas. 44 p.
- Haug, E. A., B. A. Millsap, and M. S. Martell. 1993. Burrowing Owl (*Speotyto cunicularia*). In *The Birds of North America*, No. 61, A. Poole and F. Gill (Eds.). Philadelphia: The Academy of Natural Sciences; Washington, D.C.: The American Ornithologists' Union. (Note: Returned to *Athene cunicularia* by American Ornithologists' Union, 1998.)
- Hickman, J. C. (Ed). 1993. *The Jepson Manual: Higher Plants of California*. Berkeley, CA: University of California Press.
- Holland, R. F. 1986. *Preliminary Descriptions of the Terrestrial Natural Communities of California*. California Department of Fish and Game, Nongame-Heritage Program. Updated: 1992.
- ICF International. 2011. *Jurisdictional Delineation Report for the Prologis Eucalyptus Project Site. City of Moreno Valley, County of Riverside, California*. August. (ICF 00442.11) Irvine, CA. Prepared for Prologis, Newport Beach, CA.
- Riverside County. 2003. *Western Riverside County Multiple Species Habitat Conservation Plan*.
- Riverside County Land Information System. 2011. Report and GIS map generated for assessor's parcel numbers 488-330-011, -012, -013, -017, -018, -019, -022, -023, and -024. <http://www.rctlma.org/online/content/rcip_report_generator.aspx>. Accessed: July 12, 2011

U.S. Geological Survey. 1980. *Sunnymead, California, 7.5-minute Topographic Map*. Color, scale 1:24,000. Reston, VA.

U.S. Department of Agriculture. 1971. *Soil Survey, Western Riverside Area, California*.

Wilson, D.E. and D. M. Reeder (editors). 2005. *Mammal Species of the World. A Taxonomic and Geographic Reference* (3rd ed), Johns Hopkins University Press, 2,142 pp.

Conservation Summary Report



Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP)

APN	Cell	Cell Group	Acres	Area Plan	Sub Unit
488330011	Not A Part	Independent	9.27	Reche Canyon / Badlands	Not a Part
488330012	Not A Part	Independent	9.38	Reche Canyon / Badlands	Not a Part
488330013	Not A Part	Independent	8.91	Reche Canyon / Badlands	Not a Part
488330017	Not A Part	Independent	9.35	Reche Canyon / Badlands	Not a Part
488330018	Not A Part	Independent	8.9	Reche Canyon / Badlands	Not a Part
488330019	Not A Part	Independent	33.04	Reche Canyon / Badlands	Not a Part
488330022	Not A Part	Independent	17.91	Reche Canyon / Badlands	Not a Part
488330023	Not A Part	Independent	9.58	Reche Canyon / Badlands	Not a Part
488330024	Not A Part	Independent	8.93	Reche Canyon / Badlands	Not a Part

HABITAT ASSESSMENTS

Habitat assessment shall be required and should address at a minimum potential habitat for the following species:

APN	Amphibia Species	Burrowing Owl	Criteria Area Species	Mammalian Species	Narrow Endemic Plant Species	Special Linkage Area
488330011	NO	YES	NO	NO	NO	NO
488330012	NO	YES	NO	NO	NO	NO
488330013	NO	YES	NO	NO	NO	NO
488330017	NO	YES	NO	NO	NO	NO
488330018	NO	YES	NO	NO	NO	NO
488330019	NO	YES	NO	NO	NO	NO
488330022	NO	YES	NO	NO	NO	NO
488330023	NO	YES	NO	NO	NO	NO
488330024	NO	YES	NO	NO	NO	NO

Burrowing Owl

Burrowing owl.

If potential habitat for these species is determined to be located on the property, focused surveys may be required during the appropriate season.

Background

The final MSHCP was approved by the County Board of Supervisors on June 17, 2003. The federal and state permits were issued on June 22, 2004 and implementation of the MSHCP began on June 23, 2004.

For more information concerning the MSHCP, contact your local city or the County of Riverside for the unincorporated areas. Additionally, the Western Riverside County Regional Conservation Authority (RCA), which oversees all the cities and County

implementation of the MSHCP, can be reached at:

Western Riverside County Regional Conservation Authority
3403 10th Street, Suite 320
Riverside, CA 92501

Phone: 951-955-9700
Fax: 951-955-8873

www.wrc-rca.org

[Go Back To Previous Page](#)

[GIS Home Page](#)

[TLMA Home Page](#)

Floral and Faunal Compendium

KINGDOM PLANTAE – PLANTS

PHYLUM ANTHOPHYTA – ANGIOSPERMS

CLASS MAGNOLIOPSIDA – DICOTYLEDONS

Adoxaceae – Elderberry Family

Sambucus Mexicana
Mexican elderberry

Anacardiaceae - Sumac Family

** *Schinus molle*
Peruvian Pepper-tree

Asteraceae - Sunflower Family

Ambrosia acanthicarpa
Annual Bur-sage
Baccharis salicifolia
Mule Fat
Deinandra kelloggii
Kellogg's tarplant
Encelia californica
California Bush Sunflower
Ericameria palmeri
Grassland Goldenbush
Lactuca serriola
Wild Lettuce

Boraginaceae - Borage Family

Amsinckia menziesii
Menzies' Fiddleneck

Brassicaceae - Mustard Family

** *Brassica geniculata*
Short-podded Mustard

** *Brassica nigra*
Black Mustard

** *Raphanus sativus*
Radish

Cactaceae - Cactus Family

* *Opuntia ficus-indica*
Indian-fig Cactus

Capparaceae - Caper Family

(*) *Isomeris arboria*
Bladderpod

Chenopodiaceae - Goosefoot Family

* *Salsola tragus*
Prickly Russian-thistle

Euphorbiaceae - Spurge Family

** *Ricinus communis*
Castor-bean

Juglandaceae - Walnut Family

Juglans californica
Southern California Black Walnut

Lamiaceae - Mint Family

** *Marrubium vulgare*
White Horehound

Rutaceae - Rue Family

Citrus sinensis
orange tree
Citrus paradise
grapefruit tree

Simaroubaceae - Quassia Family

** *Ailanthus altissima*
Tree-of-heaven

Solanaceae - Nightshade Family

** *Nicotiana glauca*
Tree Tobacco

CLASS LILIOPSIDA - MONOCOTYLEDONS

Poaceae - Grass Family

** *Bromus madritensis*
Foxtail Chess

KINGDOM ANIMALIA – ANIMALS

PHYLUM CHORDATA – CHORDATES

CLASS AVES – BIRDS

Accipitridae - Hawk Family

Accipiter cooperii
Cooper's hawk
Buteo jamaicensis
Red-tailed Hawk

Columbidae - Pigeon and Dove Family

Zenaida macroura
Mourning Dove

Picidae – Woodpeckers

Picoides nuttallii
Nuttall's Woodpecker

Tyrannidae - Tyrant Flycatcher Family

Sayornis nigricans
Black Phoebe
Sayornis saya
Say's Phoebe
Myiarchus cinerascens
Ash-throated Flycatcher
Tyrannus verticalis
Western Kingbird

Corvidae - Jay and Crow Family

Corvus brachyrhynchos
American Crow
Corvus corax
Common Raven

Hirundinidae - Swallow Family

Hirundo rustica
Barn Swallow
Petrochelidon pyrrhonota
Cliff Swallow
Stelgidopteryx serripennis
Northern Rough-winged Swallow

Troglodytidae - Wren Family

Salpinctes obsoletus
Rock Wren
Thryomanes bewickii
Bewick's Wren

Trochilidae – Hummingbirds

Calypte anna
Anna's Hummingbird

Cuculidae - Cuckoos

Geococcyx californianus
Greater Roadrunner

Emberizidae - Sparrow Family

Pipilo crissalis
California Towhee
Pipilo maculatus
Spotted Towhee
Melospiza melodia
Song Sparrow

Grosbeak and Bunting Family

Passerina caerulea
Blue Grosbeak

Icteridae - Blackbird, Cowbird and Oriole Family

Icterus cucullatus
Hooded Oriole
Icterus bullockii
Bullock's Oriole

Fringillidae - Finch Family

Carpodacus mexicanus
House Finch
Carduelis psaltria
Lesser Goldfinch
Carduelis tristis
American Goldfinch

CLASS MAMMALIA – MAMMALS

Canidea-Wolves and Foxes

Canis latrans
Coyote

Leporidae - Rabbits and Hares

Sylvilagus audubonii
Desert Cottontail

Sciuridae-Squirrels

Otospermophilus beecheyi
California ground squirrel

Site Photographs



Ruderal vegetation present in the south central portion of the project site.



Eroded channel on the western portion of the project site.

Appendix C Site Photographs



Southern portion of the eastern drainage channel.



Central portion of the eastern drainage channel.

Appendix C Site Photographs



Eucalyptus tree with raptor nest present along the eastern drainage.



Central portion of the project site with agriculture (citrus) and ruderal vegetation.

Appendix C Site Photographs

Riverside County Attachments E-3 and E-4

NOTIFICATION TO COUNTY OF RIVERSIDE OF CONSULTANT TO PREPARE ARCHAEOLOGICAL OR BIOLOGICAL REPORT

Notification to the County of Riverside is hereby made that ProLogis, (project sponsor), has entered into a contract with ICF (consulting firm) for the preparation of an X () biological, () archaeological report to be submitted to the County of Riverside in satisfaction of a request made by the County for additional environmental information prior to completion of an environmental assessment for the property and development proposal, described below:

Assessor's Parcel Number(s) (APN) [*Required]: 488-330-011:-013, 488-330-017:-019, -022:-024

Development Proposal Case Number(s) [*Required]: PA07-0083

In accordance with the notice of additional environmental information provided by the County, the scope of work for the report will be as follows:

For Archaeological Reports (Standardized - Check those that apply): Phase 1 Phase 2 Phase 3 Phase 4

For Biological Reports (check all that apply): [X] General Biological Assessment [] Rare plant survey for species [X] Jurisdictional Waters/Wetlands Delineation [X] Focused survey for species burrowing owl [X] Habitat Assessment for species burrowing owl [] Other: Describe

Both the Consultant and the project sponsor acknowledge that the consultant may not submit reports to the County for use in completing initial environmental assessments or EIRs for development proposals unless the consultant has been previously qualified by the County to submit such reports and unless the consultant has entered into a Memorandum of Understanding (MOU) with the County governing the preparation and handling of such reports. The project sponsor hereby acknowledges that they have been furnished a copy of the MOU, have read it, and understand the responsibilities of both the County and the consultant as set forth therein.

Project sponsor acknowledges that the report for which notification is hereby made is the:

1st, X 2nd or (specify number) archaeological, or biological report for which contractual arrangements have been made under the direction of the project sponsor for the property described above.

PROJECT SPONSOR AND CONSULTANT are to execute the following: I hereby affirm that all information provided above, is, to the best of my knowledge, true, correct, and complete.

Project sponsor: ProLogis Dated: August 10, 2011

Consultant: ICF Dated: July 12, 2011

Note: Send Attachment D at the time contract is entered and with the final Biological or Archaeological Report. A Riverside County Planning Department "Date Received" stamp hereon shall acknowledge receipt of this Notice by the County. * Required for project processing. If case number not known, contact County Planning Dept. If no development case has yet been filed with County, write "No Case". An additional County fee may be assessed to project if no case number is provided on this form.

Last Revised January 2001

BIOLOGICAL REPORT SUMMARY SHEET

(Must be attached to biological report)

Applicant Name: ProLogis

Assessor's Parcel Number(s) (APN): 488-330-011:-013, 488-330-017:-019, -022:-024

APN cont. :

Site Location: Section: 2 Township: 3 South

Range: 3 West

Site Address: SR 60 and Petit St., Moreno Valley, CA

Related Case Number(s): PA07-0083

PDB Number:

Check ITEM(S) Habitat Assessment	Check ITEM(S) * Focused Survey	SPECIES or HABITAT OF CONCERN	(Circle whether a potential for significant impact to species or resource exists **)	
		Arroyo Southwestern Toad	Yes	No
<input type="radio"/>		Drainages/Waters of U.S.	<input checked="" type="radio"/>	No
		Coachella Valley Fringed-Toed Lizard	Yes	No
		Coastal California Gnatcatcher	Yes	No
<input type="radio"/>		Coastal Sage Scrub	Yes	<input checked="" type="radio"/>
		Delhi Sands Flower-Loving Fly	Yes	No
		Desert Pupfish	Yes	No
		Desert Slender Salamander	Yes	No
		Desert Tortoise	Yes	No
		Flat-Tailed Horned Lizard	Yes	No
<input type="radio"/>		Least Bell's Vireo	Yes	<input checked="" type="radio"/>
<input type="radio"/>		Oak Woodlands	Yes	<input checked="" type="radio"/>
		Quino Checkerspot Butterfly	Yes	No
<input type="radio"/>		Riverside Fairy Shrimp	Yes	<input checked="" type="radio"/>
		Santa Ana River Woollystar	Yes	No
		San Bernardino Kangaroo Rat	Yes	No
		Slender Horned Spineflower	Yes	No
		Stephens' Kangaroo Rat	Yes	No
<input type="radio"/>		Vernal Pools	Yes	<input checked="" type="radio"/>

Check ITEM(S) Habitat Assessment	Check ITEM(S) * Focused Survey	SPECIES or HABITAT OF CONCERN	(Circle whether a potential for significant impact to species or resource exists **)	
			Yes	No
<input type="radio"/>		Wetlands	Yes	<input type="radio"/>
<input type="radio"/>		Riparian Habitat	<input checked="" type="radio"/>	No
<input type="radio"/>	<input type="radio"/>	Burrowing Owl	Yes	<input type="radio"/>
		Bighorn Sheep	Yes	No
		Red-legged Frog	Yes	No
		Other	Yes	No
		Other	Yes	No
		Other	Yes	No
		Other	Yes	No
		Other	Yes	No

* Focused Survey: a) Survey on a listed species performed per USFWS or CDFG protocol by licensed individual (i.e., CaGn, SKR, QCB), OR b) For non-listed spp., survey performed per protocol recognized by USFWS or CDFG, or other applicable agency (i.e., Burrowing Owl), OR c) For jurisdictional waters, wetlands, & riparian areas, following protocol of U.S. Army Corp of Engineers.

** Species of concern are any unique, rare, endangered, or threatened species; species used to delineate wetlands and riparian corridors; and any hosts, perching, or food plants used by any animals listed as rare, endangered, threatened or candidate species by either State or Federal regulations, or those tracked by the California Department of Fish and Game Natural Diversity Data Base (NDDDB).

I declare under penalty of perjury that the information provided on this summary sheet is in accordance with the information provided in the biological report.



Senior Biologist

7/12/11

Signature and Title

Date Report Prepared

10(a) Permit Number (if applicable)

10(a) Permit Expiration Date

Attachment E-3 Page 2 of 2

County Use Only

Received by: _____ Date: _____

PD-B# _____ Related Case #: _____

LEVEL OF SIGNIFICANCE CHECKLIST FOR BIOLOGICAL RESOURCES

(Must be attached to report)

488-330-011:-013, 488-330-017:-019, -022:-024

APN *: _____ Riverside County Case No. *: PA07-0083 EA Number: _____

Wildlife & Vegetation

Table with 4 columns: Potentially Significant Impact, Less than Significant with Mitigation Incorporated, Less than Significant Impact, No Impact

(Check the level of impact that applies to the following questions)

a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan?

• • (•) • •

b) Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)?

• • • • (•)

c) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U. S. Wildlife Service?

• • • (•) •

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites?

• • • (•) •

e) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U. S. Fish and Wildlife Service?

• • (•) • •

f) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act or Section 1600 of the California Fish and Game Code (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

• • • • (•)

g) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

• • • • (•)

h) Create any impact which is individually limited, but cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects as defined in Section 15130 (14 Calif. Code of Regs).

• • • (•) •

* Required

**LEVEL OF SIGNIFICANCE CHECKLIST
FOR BIOLOGICAL RESOURCES**

Findings of Fact:

Burrowing owls were not observed during a focused survey. Eastern drainage has some riparian/riverine habitat as defined by the MSHCP, but is highly disturbed by non-native vegetation and trash.

Proposed Mitigation:

30-day pre-construction survey for burrowing owl
Nesting bird survey if clearing and grubbing occurs Feb 1 to August 31

Monitoring Recommended:

None

Prepared By: Mikael Romich Date: July 12, 2011

County Use Only

Received by: _____ Date: _____

PD-B# _____ Related Case #: _____

HARMSWORTH ASSOCIATES

Environmental Consultants

November 8, 2013

Ross Geller
Applied Planning, Inc
5817 Pine Avenue, Suite A
Chino Hills, CA 91709

Dear Mr. Geller:

Re: ProLogis Eucalyptus Biological Review

This letter report presents the findings a biological survey and site assessment for the ProLogis Eucalyptus project site, Riverside County, California. The purpose of the survey is to provide information on the current status of the site. The surveys were conducted under contract to Applied Planning. Surveys were conducted on November 7 2013, by Paul Galvin.

Prior to conducting the site visit the existing biological reports for the project site, the proposed development plans and the projects EIR biological conditions were reviewed. The site review consisted of traversing the site on foot, documenting current site conditions and comparing site conditions, vegetation communities and biological resources with the past reports and the proposed development plan.

The current survey found no significant difference with the site conditions compared to the past reports.

Quincy Channel is unchanged and still consists of a narrow sandy creek supporting mulefat scrub and supporting significant amounts of exotic non-native weeds. The citrus groves are unchanged.

The ruderal and non-native grasslands are located in the same areas. Both ruderal and non-native grassland were disked this summer and currently are essentially devoid of vegetation. A few non-native weeds (barnyard grass, Russian thistle and cheeseweed) occur where there is run-off from the citrus irrigation but otherwise these areas are bare ground. The non-native grasses and weed will return to these areas after the winter rains.

The two small tributaries near the southern boundary of the site that flow into the channel located to the southwest of the project site still support ruderal vegetation (summer mustard).

The channel itself; which is located outside the project site, should be mapped as mulefat scrub rather than ruderal. This channel has a sandy bottom and supports willows, cottonwood and mulefat at the upper end and sparse mulefat and tarragon throughout the rest of the channel. Since this channel is outside the project site this mapping oversight in the original biological reports is not significant.

Wildlife was sparse at the site during the survey. No nesting birds were detected, as expected, since November is outside the bird nesting season.

No burrowing owl (*Athene cunicularia*) or their sign were detected during the site survey; however potential owl burrows were present onsite.

This letter confirms that current site conditions at the ProLogis Eucalyptus project site are not significantly different from the past biological reports and no additional biological work is required for the CEQA analysis.

If you have any questions or require additional information, please call me at (714) 389-9527.

Sincerely

Harmsworth Associates

A handwritten signature in black ink, appearing to read "Paul Galvin". The signature is fluid and cursive, with the first name "Paul" written in a larger, more prominent script than the last name "Galvin".

Paul Galvin, M.S.
Vice President



Photograph 1: East side of site looking west, showing disked ruderal/non-native grassland, November 2013.



Photograph 2: East side of site looking north, showing disked ruderal/non-native grassland and citrus orchards, November 2013.



Photograph 3: Northeast corner of site looking south, showing Quincy Channel and citrus orchards, November 2013.



Photograph 4: Southwest boundary of the site looking east, showing ruderal vegetation in channel, November 2013.

This page intentionally left blank.

**CITY OF MORENO VALLEY
CONDITIONS OF APPROVAL FOR P13-111
AMENDED PLOT PLAN FOR A WAREHOUSE DISTRIBUTION FACILITY
ASSESSOR’S PARCEL NUMBERS: 488-330-003 TO -006 AND -026**

**APPROVAL DATE:
EXPIRATION DATE:**

- X **Planning (P), including Building (B), School District (S), Post Office (PO)**
- X **Fire Prevention Bureau (F)**
- X **Public Works Dept. – Land Development (LD)**
- X **Public Works Dept. – Transportation Engineering (TE)**
- X **Public Works Dept. – Moreno Valley Utilities (MVU)**
- X **Financial & Management Service Dept. – Special Districts (SD)**
- X **Parks & Community Services (PCS)**
- X **Police (PD)**

Note: All Special conditions are in bold lettering. All other conditions are standard to all or most development projects.

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

Planning Division

P1. Amended Plot Plan P13-111 has been approved for development of an 800,430 square foot refrigerated warehouse distribution facility, to be built on a 55 acre site within Assessor’s Parcel Numbers 488-330-003 to -006 and -026. The facility includes the following:

- **263,800 square feet of perishable area;**
- **506,380 square feet of warehouse;**
- **5,250 square feet mechanical room;**
- **25,000 square feet of 1st floor office and 25,000 square of 2nd floor office.**

Based upon the results of a parking study prepared per Municipal Code Section 9.11.070 a total of 313 employee spaces is needed for the operation

Timing Mechanisms for Conditions (see abbreviation at beginning of affected condition):

R - Map Recordation	GP - Grading Permits	CO - Certificate of Occupancy or building final
WP - Water Improvement Plans	BP - Building Permits	P - Any permit

Governing Document (see abbreviation at the end of the affected condition):

GP - General Plan	MC - Municipal Code	CEQA - California Environmental Quality Act
Ord - Ordinance	DG - Design Guidelines	Ldscp - Landscape Development Guidelines and Specs
Res - Resolution	UFC - Uniform Fire Code	UBC - Uniform Building Code
	SBM - Subdivision Map Act	

547
Resolution No 2014-XX
February 25, 2014

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 548 OF 62**

- of the proposed warehouse. The project design provides 374 employee/visitor spaces.
- P2. The facility is approved for the installation of generators at two locations.**
- P3. Roof mounted refrigeration units to be screened from view and painted to match the building.**
- P4. Development of the warehouse facility is subject to approval of Tentative Parcel Map No. 36207 and the subsequent recordation of this map.**
- P5. Bicycle racks shall be provided at a minimum of five (5) percent of the required vehicular parking and shall be located near the designated office area(s).**
- P6. The gates into truck loading and parking areas that are within view of a public street shall be of solid metal construction or wrought iron with mesh to screen the interior of the loading area.**
- P7. This project shall comply with South Coast Air Quality Management District (SCAQMD) rules related to dust generation (Rule 403) and the use of architectural coatings (Rule 1113).**
- P8. The design of all swales and basins that are visible from the public right-of-way shall be integrated with the surrounding landscape areas.**
- P9. Screening walls of decorative block or concrete tilt-up construction shall be provided to fully screen the truck loading and parking area for from view from Fir/Eucalyptus Avenue.**
- P10. Enhanced landscape shall be provided in the planter areas near each driveway and near the office portions of the facilities.**
- P11. All loudspeakers, bells, gongs, buzzers or other noise attention devices installed on the project site shall be designed to ensure that the noise level at all property lines will be at or below 55 dBA for consistency with the Municipal Code.**
- P12. Loading or unloading activities shall be conducted from the truck bays or designated loading areas only. (MC 9.10.140, CEQA)**
- P13. No outdoor storage is permitted on the project site, except for truck and trailer storage in designated areas within the screened truck courts.**
- P14. If the proposed project requires blasting, it shall be used only as a last**

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 549 OF 62**

resort. In such cases, it shall be approved by the Fire Marshall, and the developer shall comply with the current City ordinance governing blasting. (Ord)

- P15. This approval shall expire three years after the approval date of this project unless used or extended as provided for by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever. Use means the beginning of substantial construction contemplated by this approval within the three-year period, which is thereafter pursued to completion, or the beginning of substantial utilization contemplated by this approval. (MC 9.02.230)
- P16. P13-111 shall be developed in accordance with the approved plans on file in the Community & Economic Development Department - Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the City Planning Official. (MC 9.14.020)
- P17. The developer, or the developer's successor-in-interest, shall be responsible for maintaining any undeveloped portion of the project site in a manner that provides for the control of weeds, erosion and dust. (MC 9.02.030)
- P18. A drought tolerant, low water using landscape palette shall be utilized throughout the project to the extent feasible.
- P19. All landscaped areas shall be maintained in a healthy and thriving condition, free from weeds, trash and debris. (MC 9.02.030)
- P20. Any signs indicated on the submitted plans are not included with this approval. Any signs proposed for this development shall be designed in conformance with the sign provisions of the Municipal Code or approved sign program, if applicable, and shall require separate application and approval by the Community & Economic Development Department - Planning Division. (MC 9.12.020)

Prior to Issuance of Grading Permits

- P21. (GP) All site plans, grading plans, landscape and irrigation plans, fence/wall plans, lighting plans and street improvement plans shall be coordinated for consistency with this approval.
- P22. (GP) If potential historic, archaeological, or paleontological resources are uncovered during excavation or construction activities at the project site, work in the affected area will cease immediately and a qualified person (meeting the Secretary of the Interior's standards (36CFR61)) shall be consulted by the applicant to evaluate the find, and as appropriate recommend alternative

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 550 OF 62**

measures to avoid, minimize or mitigate negative effects on the historic, prehistoric, or paleontological resource. Determinations and recommendations by the consultant shall be implemented as deemed appropriate by the Community & Economic Development Director, in consultation with the State Historic Preservation Officer (SHPO) and any and all affected Native American Tribes before any further work commences in the affected area.

If human remains are discovered, work in the affected area shall cease immediately and the County Coroner shall be notified. If it is determined that the remains are potentially Native American, the California Native American Heritage Commission and any and all affected Native American Indians tribes such as the Morongo Band of Mission Indians or the Pechanga Band of Luiseno Indians shall be notified and appropriate measures provided by State law shall be implemented. (GP Objective 23.3, DG, CEQA).

- P23. (GP) Prior to the issuance of grading permits, final erosion control landscape and irrigation plans for all cut or fill slopes over 3 feet in height shall be submitted to the Planning Division for review and approval for the phase in process. The plans shall be designed in accordance with the slope erosion plan as required by the City Engineer for that phase. Man-made slopes greater than 10 feet in height shall be "land formed" to conform to the natural terrain and shall be landscaped and stabilized to minimize visual scarring. (GP Objective 1.5, MC 9.08.080, DG)
- P24. (GP) Prior to approval of any grading permit, the developer shall submit for review and approval of a tree plan to the Planning Division. The plan shall identify all mature trees (4 inch trunk diameter or larger) on the subject property, City right-of-way or Caltrans right-of-way. Using the grading plan as a base, the plan shall indicate trees to be relocated, retained, and removed. Replacement trees shall be: shown on the plan; be a minimum size of 24 inch box; and meet a ratio of three replacement trees for each mature tree removed or as approved by the Community Development Director. (GP Objective 4.4, 4.5, DG)
- P25. (GP) Prior to approval of any grading permit, local and master-planned multi-use trail easements shall be shown in accordance with the City's Master Trail Plan.
- P26. (GP) Prior to issuance of grading permits, the developer shall pay the applicable Stephens' Kangaroo Rat (SKR) Habitat Conservation Plan mitigation fee. (Ord)
- P27. (GP) For projects abutting State Highway 60, a sixteen foot reservation for future right-of-way shall be provided.**
- P28. (GP) Prior to approval of any grading permits, plans for any security gate system shall be submitted to the Community Development Department - Planning Division for review and approval.**

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 551 OF 62**

- P29. (GP) If a median is required, then prior to approval of any grading permits, final median enhancement/landscape/irrigation plans shall be submitted to the Community Development Department - Planning Division and Public Works Department – Special Districts for review and approval by each division. Timing of installation shall be determined by PW- Special Districts. (GP - Circulation Master Plan)**
- P30. (GP) Prior to issuance of any grading permits, mitigation measures contained in the Mitigation Monitoring Program approved with this project shall be implemented as provided therein.**
- P31. (GP) Prior to the issuance of grading permits, the grading plan shall show decorative concrete pavers for all driveway ingress/egress locations of the project. Accessible pedestrian pathways interior to the site cannot be painted. If delineation is necessary, then an alternative material is required.**
- P32. (GP) Prior to the issuance of a grading permit, all required planter areas, curbs, including twelve-inch concrete step outs, and required parking space striping shall be shown on the precise grading plan.**
- P33. (GP) Prior to the issuance of grading permits, the following burrowing owl survey requirements shall be incorporated into the grading plans in accordance with the Riverside County Multi-species Habitat Conservation Plan: Within 30 days of and prior to disturbance, a burrowing owl focused survey shall be conducted by a qualified biologist using accepted protocols. The survey shall be submitted to the Planning Division for review and approval.**
- P34. (GP) Prior to the issuance of grading permits, a “no touch“ area shall be staked along the westerly limit of project development as defined by the scour wall and a City approved Biologist be retained to monitor construction activities to ensure protection and preservation of Channel areas. Upon the completion of the above mitigation measure an on-site grading permit may be issued for project work to commence.**
- P35. (GP) Prior to any physical disturbance of any natural drainage course, or any wetland determined to contain riparian vegetation, the applicant shall obtain a stream bed alteration agreement or permit, or a written waiver of the requirement for such an agreement or permit, from both the California Department of Fish and Game and the U.S. Army Corps of Engineers. Written verification of such a permit or waiver shall be provided to both the Planning Division and the Public Works Department - Land Development Division. (CEQA, State and Federal codes)**

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 552 OF 62**

- P36. (GP) Prior to the approval of any precise grading permits, the developer shall submit written documentation and a planting coverage map/plan to the Planning and Land Development Divisions for all parcels identified as future State Highway 60 right-of-way as well as specifications for an erosion control/wildflower hydroseed mixture appropriate to the site's climate zones and soils to be applied at a time and in a manner that optimizes germination and coverage of the parcels consistent with the erosion control requirements for the site. Said landscape shall be maintained free of weeds and overgrowth by the developer or successor in interest until such time as the parcels are transferred to the City or Caltrans.**
- P37. (GP) Prior to issuance of grading permits, landscape plans (trees, shrubs and groundcover) for basins maintained by an POA or other private entity shall be submitted to the Planning Division for review and approval for the sides and/or slopes. A hydroseed mix with irrigation is acceptable for the bottom of all the basin areas. All detention basins shall include trees, shrubs and groundcover up to the concreted portion of the basin. A solid decorative wall with pilasters, tubular steel fence with pilasters or other fence or wall approved by the Community Development Director is required to secure all water quality and detention basins more than 18 inches in depth.**
- P38. (GP) Prior to issuance of grading permits, the developer shall submit wall/fence plans to the Planning Division for review and approval as follows:**
- A. A maximum 3 foot high decorative wall in lieu of a hedge or berm may be placed in setback areas adjacent to a parking lot.**
 - B. Any proposed retaining walls shall also be decorative in nature, while the combination of retaining and other walls on top shall not exceed the height requirement for the specific plan and/or Municipal Code.**
 - C. A 14 foot tall solid wall of decorative block with pilasters and a cap or concrete tilt-up construction shall be provided to screen the trucks, parked trailers and the loading areas and loading docks from view from Fir/Eucalyptus Avenue and at the northeast corner of the site.**
 - D. Wrought iron/tubular steel fence is required along portions of the northern, western and eastern property lines.**
 - E. A four foot tall three rail fence to match adjacent trail fencing is required to enclose the basins located along Fir/Eucalyptus Avenue.**

Prior to Issuance of Building Permits

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 553 OF 62**

- P39. (BP) Prior to issuance of building permits, the Community & Economic Development Department - Planning Division shall review and approve the location and method of enclosure or screening of transformer cabinets, commercial gas meters and back flow preventers as shown on the final working drawings. Location and screening shall comply with the following criteria: transformer cabinets and commercial gas meters shall not be located within required setbacks and shall be screened from public view either by architectural treatment or with landscaping; multiple electrical meters shall be fully enclosed and incorporated into the overall architectural design of the building(s); back-flow preventers shall be screened by landscaping that will provide complete screening upon maturity. (GP Objective 43.30, DG)
- P40. (BP) Prior to issuance of building permits, screening details shall be addressed on plans for roof top equipment and trash enclosures submitted for Community & Economic Development Department - Planning Division review and approval. All equipment shall be completely screened so as not to be visible from public view, and the screening shall be an integral part of the building. For trash enclosures, landscaping shall be included on at least three sides. The trash enclosure, including any roofing, shall be compatible with the architecture for the building(s). (GP Objective 43.6, DG)
- P41. (BP) Prior to issuance of building permits, two copies of a detailed, on-site, computer generated, point-by-point comparison lighting plan, including exterior building, parking lot, and landscaping lighting, shall be submitted to the Community & Economic Development Department - Planning Division for review and approval. The lighting plan shall be generated on the plot plan and shall be integrated with the final landscape plan. The plan shall indicate the manufacturer's specifications for light fixtures used and shall include style, illumination, location, height and method of shielding. The lighting shall be designed in such a manner so that it does not exceed 0.5 foot candles illumination beyond at the property line. The lighting level for all parking lots or structures shall be a minimum coverage of one foot-candle of light with a maximum of eight foot-candles. After the third plan check review for lighting plans, an additional plan check fee will apply. (MC 9.08.100, DG)
- P42. (BP) Prior to issuance of building permits or as permitted by current City policy, the developer or developer's successor-in-interest shall pay all applicable impact fees, including but not limited to Transportation Uniform Mitigation fees (TUMF), Multi-species Habitat Conservation Plan (MSHCP) mitigation fees, and the City's adopted Development Impact Fees. (Ord)
- P43. (BP) Prior to issuance of building permits, final landscaping and irrigation plans shall be submitted to the Community & Economic Development Department - Planning Division for review. All landscape plans shall be approved prior to the

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 554 OF 62**

release of any building permits for the site. After the third plan check review for landscape plans, an additional plan check fee shall apply. The plans shall be prepared in accordance with the City's Landscape Standards and Specifications and shall include:

- A. A landscape berm, hedge or a maximum 3 foot decorative wall is required adjacent to parking areas along public rights-of-way.
- B. All finger and end planters shall be included at an interval of one per 12 parking stalls, be a minimum 5' x 16', and include additional 12" concrete step-outs and 6" curbing. (MC9.08.230, City's Landscape Standards)
- C. All diamond planters shall be included at an interval of one per 3 parking stalls.
- D. Drought tolerant landscape shall be provided. Sod shall be limited to public gathering areas only and not be included along the perimeter of the project site.
- E. On site trees shall be planted at an equivalent of one (1) tree per thirty (30) linear feet of building dimension. Trees may be massed for pleasing aesthetic effects.
- F. **Enhanced landscaping shall be included at all driveway and corner locations as well as along Highway 60 to provide proper screening of trucks.**
- G. All site perimeter and parking lot landscape and irrigation shall be installed prior to the release of certificate of any occupancy permits for the site or pad in question.
- H. The review of all utility boxes, transformers etc. shall be coordinated to provide adequate screening from public view. (Landscape Guidelines)
- I. Landscaping on three sides of trash enclosures shall be provided.
- J. **Dense landscape (spacing of one tree per 20 feet) shall be placed in front of the wall along all designated yard areas and vines shall be planted at the base of the wall and be directed along said wall.**
- K. **A minimum size of 24" box mature trees shall be placed along the freeway or northern elevations of the building. Trees shall be in a double row or closely spaced as shown on the preliminary landscape plan.**
- L. **Minimum 24 inch box Eucalyptus Nicholii shall be used for the street trees along the Eucalyptus Avenue frontage. Spacing of trees shall be limited to 80 foot on center for parkways and medians in sight line distance areas noted on the plans; however trees to the equivalency of 40 foot on center shall be planted in the parkway for the entire site. Additional denser parkway tree placement (between 25 to 30 feet on center) would be required for areas outside of the line of sight. A preferred alternative to placing trees only on the designated parkway landscape areas would be to widen the four foot landscape separation between the sidewalk and trail to 8 feet and reduce the parkway landscape to 8 feet in site line distance areas to provide**

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 555 OF 62**

- additional trees within the designated line of sight areas alternating at 80 foot spacing to achieve the overall 40 foot spacing requirement.
- M. Focal entries of the site on Eucalyptus Avenue are void of trees and or shrubs on the preliminary landscape plan and they shall be shown on the plans, or alternatively document on the landscape and tree plans that the equivalency of one tree per 30 linear feet of building dimension visible from the parking lot and all public rights of way in addition to on tree per 30 linear feet of parking lot adjacent to the interior property is being met.
 - N. The design of all swales and basins that are visible from the public right-of-way shall be integrated with the surrounding landscape areas.
 - O. Minimum container size for required trees planted along the SR-60 frontage shall be 36 inch box
- P44. (BP) Prior to the issuance of building permits, the landscape plans shall include landscape treatment for trash enclosures located outside of a truck court, to include landscape on three sides, and trash enclosures shall include decorative enhancements such as an enclosed roof and other decorative features that are consistent with the architecture of the proposed commercial buildings on the site, subject to the approval of the Community & Economic Development Director.
- P45. (BP) Prior to the issuance of building permits, all fences and walls required or proposed on site, shall be approved by the Community & Economic Development Director. (MC 9.08.070)
- P46. (BP) Prior to the issuance of building permits, downspouts will be interior to the building, or if exterior, integrated into the architecture of the building to include compatible colors and materials to the satisfaction of the Community & Economic Development Director.
- P47. (BP) Prior to the issuance of building permits the building site plan shall include decorative concrete or pavers for all driveway ingress/egress locations for the project.
- P48. (BP) Prior to issuance of any building permits, mitigation measures contained in the Mitigation Monitoring Program approved with this project shall be implemented as provided therein. (CEQA)

Prior to Issuance of Certificate of Occupancy or Building Final

- P49. (CO) Prior to issuance of any Certificates of Occupancy or building final, mitigation measures contained in the Mitigation Monitoring Program approved with this project shall be implemented as provided therein.

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 556 OF 62**

(CEQA) (Advisory)

- P50. (CO) Prior to the issuance of Certificates of Occupancy or building final, all required and proposed fences and walls shall be constructed according to the approved plans on file in the Community & Economic Development Department – Planning Division. (MC 9.080.070).
- P51. (CO) Prior to issuance of Certificate of Occupancy or building final, installed landscaping and irrigation shall be reviewed by the Community & Economic Development Department - Planning Division. The landscaping shall be installed in accordance with the City's Landscape Standards and the approved landscape plans.
- P52. (CO) All rooftop equipment shall be appropriately screened from the Highway 60 or Eucalyptus/Fir Avenue rights of way.**

MITIGATION MEASURES

- P53. MM 4.2.1 Redlands Boulevard at SR-60 Westbound Ramps Improvements:**
- Install a traffic signal. If not otherwise completed prior to Project opening, the required traffic signal shall be constructed by the Applicant prior to issuance of the first Certificate of Occupancy.
- P54. MM 4.2.2 Redlands Boulevard at Fir (future Eucalyptus) Avenue Improvements:**
- Prior to issuance of the first Certificate of Occupancy, the Applicant shall construct the following improvements:
- Install a traffic signal;
 - Construct a southbound right turn auxiliary lane which extends the full length of the segment of Redlands Boulevard between the SR-60 Eastbound Ramps and Fir (future Eucalyptus) Avenue for a southbound lane configuration of one shared left-through lane and one right turn lane; and
 - Construct an eastbound left-turn lane with 300 feet of storage for an eastbound lane configuration of one left-turn lane and one shared through-or-right-turn-lane.
- P55. MM 4.2.3 Moreno Beach Drive at SR-60 Eastbound Ramps Improvements:**
- Construct an eastbound right-turn lane and re-stripe the shared left-or-right turn lane as an exclusive left-turn lane, for an eastbound lane configuration of one left-turn lane and one right-turn lane. These improvements would require the dedication of right-of-way from the south side of the SR-60 Eastbound Ramps and re-striping of all lanes on the west leg of the intersection. These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 557 OF 62**

satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year Cumulative traffic impacts at the intersection of Moreno Beach Drive at SR-60 Eastbound Ramps.

P56. MM 4.2.4 Moreno Beach Drive at SR-60 Westbound Ramps Improvements:

- **Coordinate traffic signal timing with the signal at the intersection of Moreno Beach Drive at SR-60 Eastbound Ramps.** The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year Cumulative traffic impacts at the intersection of Moreno Beach Drive at SR-60 Westbound Ramps.

P57. MM 4.2.5 Redlands Boulevard at SR-60 Westbound Ramps Improvements:

- **Install a traffic signal (a TUMF improvement to be constructed by the Project pursuant to Mitigation Measure 4.2.1);**
- **Construct a second northbound through lane and a right-turn lane with overlap phasing, for a northbound lane configuration of one left-turn lane, two through lanes and one right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way on the east side of Redlands Boulevard and re-striping of all lanes on the south leg of the intersection; and**
- **Construct a second southbound through lane, for a southbound lane configuration of one left-turn lane and two through lanes. These improvements would require the dedication of right-of-way on the west side of Redlands Boulevard and re-striping of all lanes on the north leg of the intersection.** The traffic signal noted above will be constructed by the Project pursuant to Mitigation Measure 4.2.1. The remaining improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year Cumulative traffic impacts at the intersection of Redlands Boulevard at SR-60 Westbound Ramps.

P58. MM 4.2.6 Redlands Boulevard at SR-60 Eastbound Ramps Improvements:

- **Construct a second northbound through lane for a northbound lane configuration of one left turn lane and two through lanes. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard and restriping of all lanes on the south leg of the intersection;**
- **Construct a second southbound through lane, for a southbound lane configuration of one left-turn lane and two through lanes. These improvements would require the dedication of right-of-way on the west side of Redlands Boulevard and re-striping of all lanes on the north leg of the intersection; and**
- **Construct an eastbound right-turn lane and re-stripe the shared left-or-right turn lane as an exclusive left-turn lane, for an eastbound lane configuration of one left-turn lane and one right-turn lane. These**

improvements would require the dedication of right-of-way on the south side of the SR-60 Eastbound Ramps and re-striping of all lanes on the west leg of the intersection. These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year cumulative traffic impacts at the intersection of Redlands Boulevard at SR-60 Eastbound Ramps.

P59. MM 4.2.7 Redlands Boulevard at Fir (future Eucalyptus) Avenue Improvements:

- Install a traffic signal (a DIF improvement to be constructed by the Project pursuant to Mitigation Measure 4.2.2);
- Construct a northbound left-turn lane with 200 feet of storage and a second through lane, for a northbound lane configuration of one left-turn lane, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard, and restriping of all lanes on the south leg of the intersection.
- Construct a southbound left-turn lane with 250 feet of storage, a second left-turn lane that extends back to the SR-60 Eastbound Ramps, a second through lane, and a right-turn lane with overlap phasing and a pocket length that is the full length of the segment, for a southbound lane configuration of two left-turn lanes, two through lanes, and one right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard, and restriping of all lanes on the north leg of the intersection. The noted right-turn southbound lane would be constructed by the Project pursuant to Mitigation Measure 4.2.2. Overlap phasing to this right-turn lane will be added when determined appropriate by the City Traffic Engineer,
- Construct dual eastbound left-turn lanes with 300 feet of storage and a second through lane, for an eastbound lane configuration of two left-turn lanes, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the south side of Fir (future Eucalyptus) Avenue, and restriping of all lanes on the west leg of the intersection. A single eastbound turn with 300 feet of storage will be constructed by the Project under Opening Year Ambient Conditions pursuant to Mitigation Measure 4.2.2.
- Construct a westbound left-turn lane, a second through lane, and a right-turn lane with overlap phasing, providing 200 feet of storage for both the left-turn and right-turn lanes, for a westbound lane configuration of one left-turn lane, two through lanes, and one right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the north side of Fir (future Eucalyptus) Avenue, and restriping of all lanes on the east leg of the intersection. Construction of the westbound left and through lanes would be funded through participation in the DIF Program; remaining improvements

would be funded through fair share fee participation.

P60. MM 4.2.8 Quincy Street at Fir (future Eucalyptus) Avenue Improvements:

- Install a stop-control on the south leg of the intersection;
- Construct a northbound shared left-or-right-turn lane. Quincy Street should be constructed as a two-lane undivided roadway with a minimum of one travel lane in each direction;
- Construct an eastbound shared through-or-right-turn lane. The Fir (future Eucalyptus) Avenue extension should be constructed as a two-lane undivided roadway with a minimum of one travel lane in each direction; and
- Construct a westbound left-turn lane and through lane. The Fir (future Eucalyptus) Avenue extension should be constructed as a two-lane undivided roadway with a minimum of one travel lane in each direction. These improvements would be funded through participation in the DIF Program. The Project will pay required DIF, facilitating construction of new intersection improvements at Quincy Street at Fir (future Eucalyptus) Avenue.

P61. MM 4.2.9 Moreno Beach Drive at SR-60 Eastbound Ramps Improvements:

- Construct the SR-60 eastbound on- and off-ramps, designed as a standard diamond and consistent with the proposed SR-60 Freeway/Moreno Beach Drive interchange design, and install a traffic signal at the new intersection;
- Construct a third northbound through lane, for a northbound lane configuration of three through lanes and a right-turn lane. These improvements would require the dedication of right-of-way from the east side of Moreno Beach Drive and re-striping of all lanes on the south leg of the intersection;
- Construct the SR-60 eastbound off-ramp with an eastbound lane configuration of one left-turn lane and dual right-turn lanes; and
- Construct the SR-60 eastbound on-ramp on Moreno Beach Drive with a minimum of two travel lanes. These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Moreno Beach Drive at SR-60 Eastbound Ramps.

P62. MM 4.2.10 Moreno Beach Drive at SR-60 Westbound Ramps Improvements:

- Construct a second northbound through lane, for a northbound lane configuration of two through lanes and a right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the east side of Moreno Beach Drive and re-striping of all lanes on the south leg of the intersection;
- In addition to the planned on-ramp for southbound vehicles which is part of the future SR-60/Moreno Beach Drive interchange design, a second southbound through lane and a right-turn lane, for a southbound lane

configuration of two through lanes and a right-turn lane. These improvements would require dedication on the west side of Moreno Beach Drive and re-striping of all lanes on the north leg of the intersection;

- Construct the SR-60 westbound on-ramp for vehicles traveling southbound on Moreno Beach Drive with a minimum of one travel lane; and
- Construct a second westbound left-turn lane, for a westbound lane configuration of two left-turn lanes and a right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the north side of the SR-60 Westbound Ramps and re-striping of all lanes on the east leg of the intersection. These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Moreno Beach Drive at SR-60 Westbound Ramps.

P63. MM 4.2.11 Moreno Beach Drive at Fir (future Eucalyptus) Avenue Improvements:

- Construct dual northbound left-turn lanes and re-stripe the northbound right-turn lane as a shared through-or-right turn lane for a northbound lane configuration of two left-turn lanes, two through lanes and a shared through-or-right turn lane. These improvements would require the dedication of right-of-way from the east side of Moreno Beach Drive and re-striping of all lanes on the south leg of the intersection. Restriping of the northbound right-turn lane as a shared through-or-right turn lane would be funded through participation in the DIF Program. Remaining improvements would be funded through fair share fee participation;

- Construct a southbound left-turn lane and a right-turn lane with overlap phasing, for a southbound lane configuration of two left-turn lanes, three through lanes and a right-turn lane with overlap phasing. These improvements would require the dedication of right-of-way from the west side of Moreno Beach Drive and re-striping of all lanes on the north leg of the intersection, and would be funded through fair share fee participation;

- Construct the new eastbound leg of this intersection with dual left-turn lanes, a through lane, and a shared through-or-right-turn lane. Construction of one eastbound left-turn lane, the eastbound through lane, and the eastbound shared through-or-right-turn lane would be funded through participation in the DIF Program. Remaining improvements would be funded through fair share fee participation; and

- Construct a westbound through lane and implement overlap phasing on the right-turn movement, for a westbound lane configuration of one left-turn lane, two through lanes, and a right-turn lane with overlap phasing. This improvement would be funded through fair share fee participation. The Project will pay required DIF and fair share fees, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Moreno Beach Drive at Fir (future Eucalyptus) Avenue.

P64. MM 4.2.12 Quincy Street at Fir (future Eucalyptus) Avenue Improvements:

- **Install a stop-control on the south leg of the intersection;**
- **Construct a northbound shared left-or-right-turn lane;**
- **Construct the eastbound approach of the Fir (future Eucalyptus) Avenue extension with a through lane and a shared through-or-right-turn lane; and**
- **Construct the westbound approach of the Fir (future Eucalyptus) Avenue extension with a left-turn lane, a through lane, and a shared through-or-right-turn lane.** These improvements would be funded through participation in the DIF Program. The Project will pay required DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Quincy Street at Fir (future Eucalyptus) Avenue

P65. MM 4.2.13 Redlands Boulevard at SR-60 Westbound Ramps Improvements:

- **Install a traffic signal (a TUMF improvement to be constructed by the Project pursuant to Mitigation Measure 4.2.1);**
- **Construct a northbound through lane and a right-turn lane with overlap phasing, for a northbound lane configuration of one left-turn lane, two through lanes and one right-turn lane with overlap phasing.** These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard and re-striping of all lanes on the south leg of the intersection;
- **Construct a southbound left-turn lane and a through lane, for a southbound lane configuration of two left-turn lanes and a through lane, and a shared through-or-right-turn lane.** These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard and re-striping of all lanes on the north leg of the intersection; and
- **Construct a westbound left-turn lane and a right-turn lane, for a westbound lane configuration of one left-turn lane, one shared left-through lane and a right-turn lane.** These improvements would require the dedication of right-of-way from the north side of the SR-60 Westbound Ramps and re-striping of all lanes on the east leg of the intersection. The traffic signal noted above will be constructed by the Project pursuant to Mitigation Measure 4.2.1. The traffic signal noted above will be constructed by the Project pursuant to Mitigation Measure 4.2.1. The remaining improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at Redlands Boulevard at SR-60 Westbound Ramps.

P66. MM 4.2.14 Redlands Boulevard at SR-60 Eastbound Ramps Improvements:

- **Construct two northbound through lanes, for a northbound lane configuration of one left-turn lane and three through lanes, with the pocket length for the northbound left-turn lane at the full length of the segment.** These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard, and restriping of all lanes on the south

leg of the intersection;

- Construct two southbound through lanes, for a southbound lane configuration of two through lanes and a shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard and re-striping of all lanes on the north leg of the intersection; and

- Re-stripe the shared eastbound left-or-right-turn lane as an exclusive left-turn lane, for an eastbound lane configuration of two left-turn lanes and one right-turn lane. These improvements would require the dedication of right-of-way on the south side of the SR-60 Eastbound Ramps and re-striping of all lanes on the west leg of the intersection. These improvements would be funded through participation in the TUMF Program. The Project will pay required TUMF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Redlands Boulevard at SR-60 Eastbound Ramps.

P67. MM 4.2.15 Redlands Boulevard at Fir (future Eucalyptus) Avenue Improvements:

- Install a traffic signal (a DIF improvement to be constructed by the Project pursuant to Mitigation Measure 4.2.2);

- Construct a left-turn lane with 200 feet of storage and a second through lane for a northbound lane configuration of one left-turn lane, one through lane and one shared through right-turn lane. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard. Restriping of all lanes on the south leg of the intersection, and construction of the northbound through lane would be funded through participation in the TUMF Program. Remaining improvements would be funded through participation in the DIF Program;

- Construct a southbound left turn lane with 250 feet of storage, a second left-turn lane that extends back to the SR-60 Eastbound ramps, a second through lane and a right turn lane with overlap phasing for a southbound lane configuration of two left turn lanes, two through lanes and one right turn lane with overlap phasing, with a right turn pocket length that extends the full length of the segment. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard, and restriping of all lanes on the north leg of the intersection. Construction of the southbound through lane would be funded through participation in the TUMF Program. Construction of one southbound left-turn lane would be funded through participation in the DIF program. The noted right-turn southbound lane would be constructed by the Project pursuant to Mitigation Measure 4.2.2. Overlap phasing for this right-turn lane will be added when determined appropriate by the City Traffic Engineer, and will be funded through fair share fee participation. Remaining improvements would also be funded through fair share fees;

- Construct dual eastbound left-turn lanes with 300 feet of storage and a second through lane, for an eastbound lane configuration of two left-turn

lanes, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the south side of Fir (future Eucalyptus) Avenue, and restriping of all lanes on the west leg of the intersection. A single eastbound turn lane with 300 feet of storage will be constructed by the Project under Opening Year Ambient Conditions pursuant to Mitigation Measure 4.2.2.; and

- Construct a westbound left-turn lane, one through lane, and a right-turn lane with overlap phasing, for a westbound lane configuration of one left-turn lane, two through lanes, and one right-turn-lane with overlap phasing [these improvements would require the dedication of right-of-way from the north side of Fir (future Eucalyptus) Avenue, and restriping of all lanes on the east leg of the intersection]. Construction of the westbound left and through lanes would be funded through participation in the DIF Program; remaining improvements would be funded through participation in the fair share fee assessments. The Project will pay required TUMF, DIF and fair share fees, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Redlands Boulevard at Fir (future Eucalyptus) Avenue.

P68. MM 4.2.16 Redlands Boulevard at Eucalyptus (future Encilia) Avenue Improvements:

- Install a traffic signal. This improvement would be funded through participation in the DIF Program;

- Construct a northbound left-turn lane and a shared through-or-right-turn lane, for a northbound lane configuration of one left-turn lane, one through lane and one shared through-or-right turn lane. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard and re-striping of all lanes on the south leg of the intersection. Construction of the northbound left-turn lane would be funded through participation in the DIF Program; remaining improvements would be funded through participation in the TUMF Program;

- Construct a southbound left-turn lane, a through lane, and a right-turn lane, for a southbound lane configuration of one left-turn lane, two through lanes, and one right-turn-lane. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard, and restriping of all lanes on the north leg of the intersection. Construction of the southbound through lane would be funded through participation in the TUMF Program; remaining improvements would be funded through participation in the DIF program;

- Re-stripe the eastbound right-turn lane as a through lane and construct an additional shared through-or-right-turn lane, for an eastbound lane configuration of one left-turn lane, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the south side of Eucalyptus (future Encilia) Avenue and the re-striping of all lanes on the west leg of the intersection,

and would be funded through participation in the DIF Program; and

- Construct the westbound approach with one left-turn lane, one through lane, and one shared through-or-right-turn-lane. These improvements would require the dedication of right-of-way from the north side of Eucalyptus (future Encilia) Avenue, and the re-striping of all lanes on the east leg of the intersection, and would be funded through participation in the DIF Program. The Project will pay required TUMF and DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Redlands Boulevard at Eucalyptus (future Encilia) Avenue.

P69. MM 4.2.17 Redlands Boulevard at Cottonwood Avenue Improvements:

- Construct a northbound through lane, for a northbound lane configuration of one left-turn lane, one through lane and one shared through-or-right turn lane. These improvements would require the dedication of right-of-way from the east side of Redlands Boulevard, and the re-striping of all lanes on the south leg of the intersection, and would be funded through participation in the TUMF Program;
- Construct a southbound left-turn lane and a through lane, for a southbound lane configuration of one left-turn lane, two through lanes, and one right-turn-lane. These improvements would require the dedication of right-of-way from the west side of Redlands Boulevard, and the restriping of all lanes on the north leg of the intersection. Construction of the southbound through lane would be funded through participation in the TUMF Program; remaining improvements would be funded through participation in the DIF Program;
- Re-stripe the eastbound right-turn lane as a through lane, and construct an additional through-or-right-turn lane, for an eastbound lane configuration of one left-turn lane, one through lane, and one shared through-or-right-turn lane. These improvements would require the dedication of right-of-way from the south side of Cottonwood Avenue, and the re-striping of all lanes on the west leg of the intersection, and would be funded through participation in the DIF Program; and
- Construct the westbound approach with one left-turn lane, one through lane, and one shared through-or-right-turn-lane. These improvements would require the dedication of right-of-way from the north side of Cottonwood Avenue, and the re-striping of all lanes on the east leg of the intersection, and would be funded through participation in the DIF Program. The Project will pay required TUMF and DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate General Plan Buildout traffic impacts at the intersection of Redlands Boulevard at Cottonwood Avenue.

P70. MM 4.2.18 Quincy Street south of Fir (future Eucalyptus) Avenue Improvements:

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 565 OF 62**

- **Construct Quincy Street south of Eucalyptus Avenue as a two-lane undivided roadway with a minimum of one travel lane in each direction.** The Project will pay required DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year cumulative traffic impacts at the segment of Quincy Street south of Fir (future Eucalyptus) Avenue.
- P71. MM 4.2.19 Fir (future Eucalyptus) Avenue west of Quincy Street to the westerly Project boundary and Fir (future Eucalyptus) east of Redlands Boulevard Improvements:**
- **Construct the Fir (future Eucalyptus) Avenue extension from the current terminus near the Auto Mall to Quincy Street, and connecting to Fir (future Eucalyptus) Avenue at the westerly project boundary. Continue Fir (future Eucalyptus) Avenue east of Redlands Boulevard. Fir (future Eucalyptus) Avenue is to be constructed as a two-lane undivided roadway with a minimum of one travel lane in each direction.** The Project will pay required DIF, thereby satisfying its proportional fee responsibilities for improvements required to mitigate Opening Year cumulative traffic impacts affecting the segment of Fir (future Eucalyptus) Avenue between the Auto Mall and the westerly Project Boundary, and Fir (future Eucalyptus) Avenue east of Redlands Boulevard.
- P72. MM 4.3.1 Consistent with URBEMIS modeling inputs and to effect implementation of SCAQMD Rule 403, the following measures shall be incorporated :**
- **All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.**
 - **The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered at least three times daily during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.**
 - **The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are reduced to 15 miles per hour or less to reduce PM10 and PM2.5 fugitive dust haul road emissions.**
 - **Site disturbance during mass grading and fine grading activities shall not exceed 13.66 acres per day.**
 - **Ground cover shall be replaced, and/or non-toxic soil stabilizers shall be applied (according to manufacturers' specifications) to any inactive construction areas (previously graded areas inactive for ten days or more).**
 - **In support of Project plan specifications and contract document language; and as means of controlling on-site construction vehicle speeds, for the duration of Project construction activities, speed limit signs (15 mph maximum) shall be posted at entry points to the Project site, and along any**

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 566 OF 62**

unpaved roads providing access to or within the Project site and/or any unpaved designated on-site travel routes.

- P73. MM 4.3.2 The contractor shall minimize pollutant emissions by maintaining equipment engines in good condition and in proper tune according to manufacturer's specifications and during smog season (May through October) by not allowing construction equipment to be left idling for more than five minutes (per California law).**
- P74. MM 4.3.3 The contractor shall ensure use of low-sulfur diesel fuel in construction equipment as required by the California Air Resources Board (CARB) (diesel fuel with sulfur content of 15 ppm by weight or less).**
- P75. MM 4.3.4 Contractor(s) shall ensure that all off-road heavy-duty construction equipment utilized during construction activity shall be CARB Tier 2 Certified or better.**
- P76. MM 4.3.5 In order to reduce localized Project impacts to sensitive receptors in the Project vicinity during construction, construction equipment staging areas shall be located at least 300 feet away from sensitive receptors.**
- P77. MM 4.3.6 During Project construction, existing electrical power sources (e.g., power poles) shall be utilized to power electric construction tools including saws, drills and compressors, to minimize the need for diesel or gasoline powered electric generators.**
- P78. MM 4.3.7 The Applicant shall use "Zero-Volatile Organic Compounds" paints, coatings, and solvents with a VOC content lower than required under Rule 1113 (not to exceed 150 grams/liter; 1.25 pounds/gallon). High Pressure Low Volume (HPLV) applications of paints, coatings, and solvents shall be consistent with South Coast Air Quality Management District Rule 1113. Alternatively, the Applicant shall use materials that do not require painting or are pre-painted.**
- P79. MM 4.3.8 Grading plans, construction specifications and bid documents shall also include the following notations:**
- Off-road construction equipment shall utilize alternative fuels e.g., biodiesel fuel (a minimum of B20), natural gas (CNG), liquefied natural gas (LNG), propane, except for equipment where use of such fuels would void the equipment warranty;**
 - Gravel pads shall be provided at all access points to prevent tracking of mud onto public roads;**
 - Install and maintain trackout control devices at all access points where paved and unpaved access or travel routes intersect;**
 - The contractor or builder shall designate a person or person(s) to monitor**

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 567 OF 62**

the dust control program and to order increased watering, as necessary, to prevent transport of dust offsite;

- The contractor or builder shall post a publicly visible sign with the telephone number and person to contact regarding dust complaints. The contact person shall take corrective action within 24 hours;
- High pressure injectors shall be provided on diesel construction equipment where feasible;
- Engine size of construction equipment shall be limited to the minimum practical size;
- Substitute gasoline-powered for diesel powered construction equipment where feasible;
- Use electric construction equipment where feasible;
- Install catalytic converters on gasoline-powered equipment where feasible;
- Ride-sharing program for the construction crew shall be encouraged and shall be supported by contractor(s) via incentives or other inducement;
- Documentation shall be provided to the City of Moreno Valley indicating that construction workers have been encouraged to carpool or otherwise reduce VMT to the greatest extent practical, including providing information on available park and ride programs;
- Lunch services shall be provided onsite during construction to minimize the need for offsite vehicle trips;
- All forklifts used during construction and in subsequent operation of the Project shall be electric or natural gas powered.

P80. MM 4.3.9 Throughout Project construction, a construction relations officer/community liaison, appointed by the Applicant, shall be retained on-site. In coordination and cooperation with the City, the construction relations officer/community liaison shall respond to any concerns related to PM10 (fugitive dust) generation or other construction-related air quality issues.

P81. MM 4.3.10 All Project entrances shall be posted with signs which state:

- Truck drivers shall turn off engines when not in use;
- Diesel delivery trucks servicing the Project shall not idle for more than three (3) minutes; and
- Telephone numbers of the building facilities manager and CARB, to report violations.

These measures shall be enforced by the on-site facilities manager (or equivalent).

P82. MM 4.3.11 Buildings shall surpass incumbent California Title 24 Energy Efficiency performance standards by a minimum of 20 percent for water heating and space heating and cooling. Verification of increased energy efficiencies shall be documented in Title 24 Compliance Reports provided by the Applicant, and reviewed and approved by the City prior to the

issuance of the first building permit. Any combination of the following design features may be used to fulfill this mitigation measure provided that the total increase in efficiency meets or exceeds 20 percent.

- Increase in insulation such that heat transfer and thermal bridging is minimized;
- Limit air leakage through the structure or within the heating and cooling distribution system to minimize energy consumption;
- Incorporate dual-paned or other energy efficient windows;
- Incorporate energy efficient space heating and cooling equipment;
- Interior and exterior energy efficient lighting which exceeds the California Title 24 Energy Efficiency performance standards shall be installed, as deemed acceptable by the City of Moreno Valley. Automatic devices to turn off lights when they are not needed shall be implemented;
- To the extent that they are compatible with landscaping guidelines established by the City of Moreno Valley, shade producing trees, particularly those that shade buildings and paved surfaces such as streets and parking lots and buildings shall be planted at the Project site.
- Paint and surface color palette for the Project shall emphasize light and off-white colors which will reflect heat away from the buildings.

All buildings shall be designed to accommodate renewable energy sources, such as photovoltaic solar electricity systems, appropriate to their architectural design.

P83. MM 4.3.12 The Project shall be designed to facilitate the reduction of waste generated by building occupants that is hauled to and disposed of in landfills by providing easily accessible areas that are dedicated to the collection and storage of recyclable materials including: paper, cardboard, glass, plastics, and metals. Locations of proposed recyclable materials collection areas are subject to review and approval by the City. Prior to Final Site Plan approval, locations of proposed recyclable materials collection areas shall be delineated on the Project Site Plan.

P84. MM 4.3.13 GHG emissions reductions measures shall also include the following:

- The Project shall provide secure, weather-protected on-site bicycle storage/parking consistent with City of Moreno Valley requirements;
- The Project shall provide pedestrian and bicycle connections to surrounding areas, consistent with provisions of the City of Moreno Valley General Plan. Location and configurations of proposed pedestrian and bicycle connections are subject to review and approval by the City. Prior to Final Site Plan approval, pedestrian and bicycle connections shall be indicated on the Project Site Plan;
- The Project shall provide onsite showers (one for males and one for females). Lockers for employees shall be provided.
- Any traffic signals installed as part of the Project will utilize light emitting diodes (LEDs);

- The Project will establish a Transportation Management Association (TMA). The TMA will coordinate with other TMAs within the City to encourage and coordinate carpooling among building occupants. The TMA will advertise its services to building occupants, and offer transit and/or other incentives to reduce GHG emissions. Additionally, a shuttle will be provided during any one hour period where more than 20 employees or construction workers utilize public transit. A plan will be submitted by the TMA to the City within two months of Project completion that outlines the measures implemented by the TMA, as well as contact information; The Project shall provide preferential parking for carpools and vanpool. Locations and configurations of proposed preferential parking for carpools and vanpools are subject to review and approval by the City. Prior to Final Site Plan approval, preferential parking for carpools and vanpools shall be delineated on the Project Site Plan;
- The Project shall provide at least two electric vehicle charging stations. Locations and configurations of proposed charging stations are subject to review and approval by the City. Prior to issuance of the first building permit, stub outs for charging stations shall be indicated on the Project building plans.
- Lease/purchase documents shall identify that tenants are encouraged to provide incentives to realize the following:
 - Implementation of compressed workweek schedules;
 - SmartWay partnership;
 - Achievement of at least 20% per year (as a percentage of previous percentage, not total trips) increase in percentage of consolidated trips carried by SmartWay carriers until it reaches a minimum of 90% of all long haul trips carried by SmartWay 1.0 or greater carriers.
 - Achievement of at least 15% per year (as a percentage of previous percentage, not total trips) increase in percentage of long haul trips carried by SmartWay carriers until it reaches a minimum of 85% of all consolidator trips carried by SmartWay 1.0 or greater carriers.
 - Use of fleet vehicles conforming to 2010 air quality standards or better.
 - Installation of catalytic converters on gasoline-powered equipment.
 - Inclusion of electric powered and/or compressed natural gas fueled trucks and/or vehicles in fleets;
 - Establishment and use of carpool/vanpool programs, complemented by parking fees for single-occupancy vehicles;
 - Provision of preferential parking for EV and CNG vehicles;
 - Use of electrical equipment (instead of gasoline-powered equipment) for landscape maintenance;
 - Use of electric (instead of diesel or gasoline-powered) yard trucks;
 - Use of SmartWay 1.25 rated trucks.

P85. MM 4.4.1 Prior to the issuance of any grading or building permit, the Project plans and specifications shall include a statement that during all

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 570 OF 62**

Project site construction, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards. And further that the construction contractor shall place all stationary construction equipment so that emitted noise is directed away from off-site receptors nearest the Project site. The statement in the plans and specifications shall be reviewed and approved by the City of Moreno Valley Planning Department, or their designee.

- P86. MM 4.4.2** Prior to the issuance of any grading or building permit, the Project plans and specifications shall include a statement that the construction contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise sources and off-site receptors nearest the Project site during all Project construction. The statement in the plans and specifications shall be reviewed and approved by the City of Moreno Valley Planning Department, or their designee.
- P87. MM 4.4.3** Prior to the issuance of any grading or building permit, the Project plans and specifications shall include a statement that construction activities, including haul truck operations, shall be limited to the hours between 7:00 a.m. and 8:00 p.m. Monday through Friday. No Project-related construction activities shall occur on weekends or Federal holidays. To the extent feasible, haul routes shall not pass sensitive land uses or residential dwellings. The statement in the plans and specifications shall be reviewed and approved by the City of Moreno Valley Planning Department, or their designee.
- P88. MM 4.4.4** Prior to the issuance of any grading or building permit, the Project plans and specifications shall include a statement that for the duration of grading and site preparation activities, temporary construction noise curtains or similar line-of-sight noise reduction measures shall be installed along the Project's southerly boundary. Noise curtains shall be installed so as to provide maximum reduction for noise sensitive uses (at present a single residence located southerly of the Project site) and shown on the grading plans prepared for the Project.
- P89. MM 4.5.1** Prior to the issuance of building permits, the Project Applicant shall contribute funding toward the acquisition of new water supplies, new treatment or recycled water facilities, and water efficiency measures for existing customers to develop new water supplies. The extent of additional funding shall be determined by the EMWD and may take the form of a new component of connection fees or a separate charge.
- P90. MM 4.5.2** The Applicant shall install water efficient devices and landscaping

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 571 OF 62**

according to the requirements of EMWD's water use efficiency ordinance(s) effective at the time of Project construction.

- P91. MM 4.5.3 The Applicant shall meet with EMWD staff at the earliest feasible date to develop a Plan of Service (POS) for the Project. The POS shall detail water, wastewater and recycled water facilities requirements to serve the Project, to be constructed by the Applicant.**
- P92. MM 4.5.4 Until the Project begins construction, the Project Water Supply Assessment shall be reviewed for its continued accuracy and adequacy every three (3) years, commencing on the WSA approval date of June 4, 2008. The Project Applicant shall maintain communication with EMWD on the status of the Project, and the lead agency shall request the referenced three-year periodic review and update of the WSA. If neither the Project applicant nor the lead agency contacts EMWD within three (3) years of approval of this WSA, it shall be assumed that the Project no longer requires the estimated water demand as calculated in the WSA. The demand for the Project will not be considered in assessments for future projects, and the assessment provided within the Project WSA shall be considered invalid.**
- P93. MM 4.7.1 A professional cultural resources monitor (Project Paleontological Monitor) shall conduct full-time monitoring throughout site excavation and grading activities. The monitor shall be equipped to salvage and/or record the location of historic and/or archaeological resources as they may be unearthed to avoid construction delays, consistent with the requirements of California Public Resources Code Section 21083.2. The monitor shall be empowered to temporarily halt or divert equipment to allow removal of abundant or large specimens or finds and to allow the preparation of recovered resources to a point of identification. One monitor for both archaeological and paleontological resources is sufficient if the monitor is qualified in both disciplines to the satisfaction of the City of Moreno Valley.**
- P94. MM 4.7.2 Should historic or prehistoric resources of potential significance be identified, a qualified archaeologist shall be contacted to assess the find(s) and make recommendations in regard to further monitoring. Resources shall be left in an undisturbed state where feasible. Where preservation in place is infeasible, all recovered resources shall then be curated in an established, accredited museum repository with permanent retrievable archaeological/historic resource storage. A report of findings shall also be prepared by a qualified archaeologist, and shall include an itemized inventory of any specimens recovered. The report and confirmation of curation of any recovered resources from an accredited museum repository shall signify completion of the program to mitigate impacts to archaeological/ historic resources. If disturbed resources are required to be collected and preserved, the applicant shall be required to participate financially up to the limits**

imposed by Public Resources Code Section 21083.2.

- P95. MM 4.7.3** Prior to the issuance of a grading permit, a City-approved Project Paleontologist shall be retained to initiate and supervise paleontological mitigation-monitoring in all areas of the Project site, subject to the following certain constraints:
- Once excavations reach ten (10) feet in depth, monitoring of excavation in areas identified as likely to contain paleontological resources by a qualified paleontological monitor or his/her representative must take place;
 - A paleontological mitigation-monitoring plan shall be developed before grading begins;
 - Paleontological monitors shall be equipped to salvage and/or record the location of fossils as they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates;
 - Monitors must be empowered to temporarily halt or divert equipment to allow removal of abundant or large specimens; and
 - Monitoring may be reduced if the potentially fossiliferous units described herein are not present, or, if present, are determined upon exposure and examination by qualified paleontological personnel to have low potential to contain fossil resources
- P96. MM 4.8.1** Prior to the issuance of a grading permit, a “no touch” area shall be staked along the westerly limit of Project development as defined by the alignment of the scour wall proposed along the Quincy Channel. Importantly, the westerly limits of development shall be established so as to preclude potential permanent impacts to CDFG and/or Corps Jurisdictional Areas within the westerly adjacent Quincy Channel. Prior to the issuance of a grading permit, a City-approved Project biologist shall be retained to initiate and supervise monitoring of construction activities to ensure protection and preservation of adjacent Channel areas.
- P97. MM 4.8.2** Prior to issuance of a grading permit, the proposed scour wall to be located between the developed Project site and the Quincy Channel shall be shown on the grading plans. Alignment of the scour wall shall be field-determined and physically delineated by the Project biologist in consultation with the City. Importantly, the scour wall alignment shall be established so as to preclude potential impacts to CDFG and/or Corps Jurisdictional Areas within the westerly adjacent Quincy Channel. Ongoing monitoring of construction activities shall be maintained throughout implementation of the scour wall to ensure protection and preservation of adjacent Channel areas.
- P98. MM 4.8.3** Prior to issuance of a building permit, landscape and irrigation plans shall be approved which demonstrate that no invasive, non-native

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 573 OF 62**

plants will be planted or seeded within 150 feet of the avoided riparian habitat along the Quincy Channel.

- P99. MM 4.8.4 Prior to the issuance of any grading permits and prior to any physical disturbance of any jurisdictional areas, the applicant shall obtain a stream bed alteration agreement or permit, or a written waiver of the requirement for such an agreement or permit, from both the California Department of Fish and Game and the U.S. Army Corps of Engineers. Written verification of such a permit or waiver shall be provided to the Community Development Department - Planning Division and the Public Works Department - Land Development Division.**
- P100. MM 4.8.5 Prior to issuance of a grading permit, the Applicant shall develop and implement a Habitat Mitigation and Monitoring Plan (HMMP) to restore impacted riparian (mulefat) habitat. Prior to implementation, the HMMP shall be reviewed and approved by the CDFG. If in its final design, the CDFG-approved HMMP involves use or restoration of USACE or RWQCB jurisdictional areas, USACE and/or RWQCB approval shall also be obtained. The HMMP shall, at a minimum, meet the following requirements:**
- A habitat replacement and/or enhancement ratio of at least 1:1 for temporary impact;**
 - A success criterion of at least 80 percent cover of native riparian vegetation for replaced habitat; and**
 - Additional requirements, including a 3-year establishment period for the replacement habitat, regular trash removal, native plant re-vegetation for areas temporarily disturbed by construction and regular maintenance and monitoring activities to ensure the success of the mitigation plan; and**
 - Prior to the issuance of a grading permit, as part of the Project HMMP, appropriate maintenance and monitoring protocols will be developed in concert with CDFG based on final Project designs, and the ultimate scope, location, and type of mitigation reflected in the HMMP as approved by CDFG.**
- P101. MM 4.8.6 If possible, all vegetation removal activities shall be scheduled from August 1 to February 1, which is outside the general avian nesting season. This would ensure that no active nests would be disturbed and that removal could proceed rapidly. If vegetation is to be cleared during the nesting season (February 15 – July 31), all suitable habitat will be thoroughly surveyed for the presence of nesting birds within 72 hours prior to clearing. All surveys shall be performed by a qualified Project biologist to be retained by the Applicant and vetted by the City. The survey results shall be submitted by the Project Applicant to the Planning Division. If any active nests are detected, the nest(s) shall be flagged in the field and mapped on the construction plans along with a minimum 50-foot buffer and up to 300 feet for raptors, with the final buffer distance to be determined by the Project biologist. The buffer area shall be avoided until the nesting**

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 574 OF 62**

cycle is complete or it is determined that the nest has failed. In addition, the Project biologist will be present on the site to monitor vegetation removal to ensure that any nests, which were not detected during the initial survey, are not disturbed.

- P102. MM 4.8.7 Within 30 days of site clearing activities, a pre-construction burrowing owl survey shall be conducted to document the presence/absence of any occupied owl burrows. Any owls present shall be passively or actively relocated following CDFG approved protocols, and with CDFG permission, prior to commencement of clearing. The survey shall be submitted to the Planning Division prior to issuance of a grading permit.**
- P103. (CO) Prior to issuance of a certificate of occupancy or building final, the project shall install a photovoltaic array (solar panels) or other source of renewable energy generation on-site, or otherwise acquire energy from the local utility that has been generated by renewable resources, to meet the project's office electricity needs.**
- P104. The applicant shall pay City development impact fees at the "full nexus study rate".**
- P105. (CO) Prior to issuance of a certificate of occupancy, the applicant shall demonstrate that the building qualifies for Silver LEED certification**

Building and Safety Division

- B1.** The above project shall comply with the current California Codes (CBC, CEC, CMC, CPC and Green Building Standards) as well as City ordinances. All new projects shall provide a soils report as well. Plans shall be submitted to the Building Division as a separate submittal. The 2010 Edition of the California Codes are currently in effect. Building permit applications (plan review) made on or after January 1, 2014, will be subject to the 2013 Edition of the California Building Standards Code.
- B2.** Prior to final inspection, all plans will be placed on a CD Rom for reference and verification. Plans will include "as built" plans, revisions and changes. The CD will also include Title 24 energy calculations, structural calculations and all other pertinent information. It will be the responsibility of the developer and or the building or property owner(s) to bear all costs required for this process. The CD will be presented to the Building and Safety Division for review prior to final inspection and building occupancy. The CD will become the property of the Moreno Valley Building and Safety Division at that time. In addition, a site plan showing the path of travel from public right of way and building to building access with elevations will be required.

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 575 OF 62**

- B3. (BP) Prior to the issuance of a building permit, the applicant shall submit a properly completed "Waste Management Plan" (WMP), as required, to the Compliance Official (Building Official) as a portion of the building or demolition permit process.
- B4. (BP) Prior to the issuance of a building permit, show on the plans that all exterior doors comply with the requirements of CBC 1133B.1.1.1 for accessible path of travel from every exit door, especially in consideration of doors that may be designated as exits due to interior obstructions to path of travel due to racks, equipment and other interior obstruction to the exit path of travel.
- B5. (BP) Prior to the issuance of a building permit, show on the plans that no gutter, drainage feature, swale or other deviation in the flat level surface at the accessible parking spaces exists within and for a minimum four foot extension beyond the outer dimensions of the parking space, loading zone and path of travel.
- B6. (BP) Plans shall be prepared, stamped and signed by a licensed Architect or Registered Civil Engineer for submission for plan check review.
- B7. (BP) Plumbing plans shall be prepared, including isometrics, for required plumbing fixtures based on California Plumbing Code, Chapter 4 and Table 4-1.

SCHOOL DISTRICT

- S1. (BP) Prior to issuance of building permits, the developer shall provide to the Community Development Director a written certification by the affected school district that either: (1) the project has complied with the fee or other exaction levied on the project by the governing board of the district, pursuant to Government Code Section 65996; or (2) the fee or other requirement does not apply to the project.

UNITED STATES POSTAL SERVICE

- PO1. (BP) Prior to the issuance of building permits, the developer shall contact the U.S. Postal Service to determine the appropriate type and location of mailboxes.

FIRE PREVENTION BUREAU

1. City will issue grading and partial building permits allowing construction of foundations, slabs, wall and erection of concrete walls, even if the offsite water lines and fire hydrants along Eucalyptus adjacent to the site have not been constructed. Roof construction will not begin until waterlines and hydrants are operational (complete the proposed pipeline improvements shown on EMWD WO#12713. These improvements include proposed pipeline additions on site and off).
2. The following Standard Conditions shall apply.

With respect to the conditions of approval, the following fire protection measures shall be provided in accordance with Moreno Valley City Ordinances and/or recognized fire protection standards:

- F1. Final fire and life safety conditions will be addressed when the Fire Prevention Bureau reviews building plans. These conditions will be based on occupancy, use, California Building Code (CBC), California Fire Code (CFC), and related codes, which are in force at the time of building plan submittal.
- F2. The Fire Prevention Bureau is required to set a minimum fire flow for the remodel or construction of all commercial buildings per CFC Appendix B and Table B105.1. The applicant/developer shall provide documentation to show there exists a water system capable of delivering 4000 GPM for 4 hour(s) duration at 20-PSI residual operating pressure. The required fire flow may be adjusted during the approval process to reflect changes in design, construction type, or automatic fire protection measures as approved by the Fire Prevention Bureau. Specific requirements for the project will be determined at time of submittal. (CFC 508.3, Appendix B and MVMC 8.36.100 Section D) A 50% reduction in fire flow was granted for the use of fire sprinklers throughout the facility. The reduction shall only apply to fire flow; hydrant spacing shall be per the fire flow requirements listed in CFC Appendix B and C prior to credits being granted. **EMWD Work Order 12713 is required in order to meet this fire flow.**
- F3. Industrial, Commercial, Multi-family, Apartment, Condominium, Townhouse or Mobile Home Parks. A combination of on-site and off super enhanced fire hydrants (6" x 4" x 4" x 2 1/2") shall not be closer than 40 feet and more than 150 feet from any portion of the building as measured along approved emergency vehicular travel ways. The required fire flow shall be available from any adjacent fire hydrant(s) in the system. Where new water mains are extended along

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 577 OF 62**

streets where hydrants are not needed for protection of structures or similar fire problems, super or enhanced fire hydrants as determined by the fire code official shall be provided at spacing not to exceed 500 feet of frontage for transportation hazards. (CFC 508.5.7 & MVMC 8.36.050 Section O and 8.36.100 Section E)

- F4. Prior to issuance of Building Permits, the applicant/developer shall provide the Fire Prevention Bureau with an approved site plan for Fire Lanes and signage. (MVMC 8.36.050 and CFC 501.3)
- F5. Prior to construction and issuance of building permits, all locations where structures are to be built shall have an approved Fire Department emergency vehicular access road (all weather surface) capable of sustaining an imposed load of 80,000 lbs. GVW, based on street standards approved by the Public Works Director and the Fire Prevention Bureau. (CFC 501.4 and MVMC 8.36.050 Section A)
- F6. Prior to construction and issuance of Building Permits, fire lanes and fire apparatus access roads shall have an unobstructed width of not less than or thirty (30) feet as approved by the Fire Prevention Bureau and an unobstructed vertical clearance of not less the thirteen (13) feet six (6) inches. (CFC 503.2.1.1 and MVMC 8.36.050)
- F7. Prior to construction, all roads, driveways and private roads shall not exceed 12 percent grade. (CFC 503.2.7 and MVMC 8.36.050)
- F8. If construction is phased, each phase shall provide an approved emergency vehicular access way for fire protection prior to any building construction. (CFC 501.4 and MVMC 8.36.050 Section A)
- F9. Prior to construction, all locations where structures are to be built shall have an approved Fire Department access based on street standards approved by the Public Works Director and the Fire Prevention Bureau. (CFC 501.3 and MVMC 8.36.050)
- F10. Prior to building construction, dead end roadways and streets which have not been completed shall have a turnaround capable of accommodating fire apparatus. (CFC 503.2.5 and MVMC 8.36.050)
- F11. Prior to issuance of Building Permits, the applicant/developer shall participate in the Fire Impact Mitigation Program. (Fee Resolution as adopted by City Council)
- F12. Prior to issuance of Building Permits, the applicant/developer shall furnish one copy of the water system plans to the Fire Prevention Bureau for review. Plans shall:

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 578 OF 62**

- a) Be signed by a registered civil engineer or a certified fire protection engineer;
- b) Contain a Fire Prevention Bureau approval signature block; and
- c) Conform to hydrant type, location, spacing of new and existing hydrants and minimum fire flow required as determined by the Fire Prevention Bureau.

After the local water company signs the plans, the originals shall be presented to the Fire Prevention Bureau for signatures. The required water system, including fire hydrants, shall be installed, made serviceable, and be accepted by the Moreno Valley Fire Department prior to beginning construction. They shall be maintained accessible.

Existing fire hydrants on public streets are allowed to be considered available. Existing fire hydrants on adjacent properties shall not be considered available unless fire apparatus access roads extend between properties and easements are established to prevent obstruction of such roads. (CFC 508.1 and MVMC 8.36.100)

- F13. Prior to issuance of Certificate of Occupancy or Building Final, "Blue Reflective Markers" shall be installed to identify fire hydrant locations in accordance with City specifications. (CFC 510.1)
- F14. Prior to issuance of Certificate of Occupancy or Building Final, all commercial buildings shall display street numbers in a prominent location on the street side and rear access locations. The numerals shall be a minimum of twelve (12) inches in height for buildings and six (6) inches in height for suite identification on a contrasting background. Unobstructed lighting of the address(s) shall be by means approved by the Fire Prevention Bureau and Police Department. In multiple suite centers (strip malls), businesses shall post the name of the business on the rear door(s). (CFC 505.1)
- F15. Prior to issuance of Certificate of Occupancy or Building Final, the applicant/developer shall install a fire sprinkler system based on square footage and type of construction, occupancy or use. Fire sprinkler plans shall be submitted to the Fire Prevention Bureau for approval prior to installation. (CFC Chapter 9)
- F16. Prior to issuance of Certificate of Occupancy or Building Final, the applicant/developer shall install a fire alarm system monitored by an approved Underwriters Laboratory listed central station based on a requirement for monitoring the sprinkler system, occupancy or use. Fire alarm panel shall be accessible from exterior of building in an approved location. Plans shall be submitted to the Fire Prevention Bureau for approval prior to installation. (CFC Chapter 9 and MVMC 8.36.070)

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 579 OF 62**

- F17. Prior to issuance of a Certificate of Occupancy or Building Final, a “Knox Box Rapid Entry System” shall be provided. The Knox-Box shall be installed in an accessible location approved by the Fire Chief. The Knox-Box shall be supervised by the alarm system and all exterior security emergency access gates shall be electronically operated and be provided with Knox key switches for access by emergency personnel. (CFC 506.1)
- F18. Prior to issuance of Certificate of Occupancy or Building Final, the applicant/developer shall be responsible for obtaining underground and/or above ground tank permits for the storage of combustible liquids, flammable liquids, or any other hazardous materials from both the County of Riverside Community Health Agency Department of Environmental Health and the Fire Prevention Bureau. (CFC 3401.4 and 2701.5)
- F19. Prior to issuance of Certificate of Occupancy or Building Final, the applicant/developer must submit a simple plot plan, a simple floor plan, and other plans as requested, each as an electronic file in .dwg format, to the Fire Prevention Bureau. Alternate file formats may be acceptable with approval by the Fire Chief.
- F20. The angle of approach and departure for any means of Fire Department access shall not exceed 1 ft drop in 20 ft (0.3 m drop in 6 m), and the design limitations of the fire apparatus of the Fire Department shall be subject to approval by the AHJ. (CFC 503.2.7 and MVMC 8.36.050 Section I)
- F21. Prior to issuance of the building permit for development, independent paved access to the nearest paved road, maintained by the City shall be designed and constructed by the developer within the public right of way in accordance with City Standards. (MVMC 8.36.050) **An approved all weather access to the site during construction shall be provided and shall be maintained at all times during construction. Prior to issuance of Building permit a temporary construction access plan shall will be provided and approved by the Fire Prevention Bureau.**
- F22. Complete plans and specifications for fire alarm systems, fire-extinguishing systems (including automatic sprinklers or standpipe systems), clean agent systems (or other special types of automatic fire-extinguishing systems), as well as other fire-protection systems and appurtenances thereto shall be submitted to the Moreno Valley Fire Prevention Bureau for review and approval prior to system installation. Submittals shall be in accordance with CFC Chapter 9 and associated accepted national standards.
- F23. A permit is required to maintain, store, use or handle materials, or to conduct processes which produce conditions hazardous to life or property, or to install

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 580 OF 62**

equipment used in connection with such activities. Such permits shall not be construed as authority to violate, cancel or set aside any of the provisions of this code. Such permit shall not take the place of any license required by law. Applications for permits shall be made to the Fire Prevention Bureau in such form and detail as prescribed by the Bureau. Applications for permits shall be accompanied by such plans as required by the Bureau. Permits shall be kept on the premises designated therein at all times and shall be posted in a conspicuous location on the premises or shall be kept on the premises in a location designated by the Fire Chief. Permits shall be subject to inspection at all times by an officer of the fire department or other persons authorized by the Fire Chief in accordance with Appendix Chapter 1 and MVMC 8.36.100.

- F24. Approval of the safety precautions required for buildings being constructed, altered or demolished shall be required by the Fire Chief in addition to other approvals required for specific operations or processes associated with such construction, alteration or demolition. (CFC Chapter 14 & CBC Chapter 33)
- F25. Prior to issuance of Certificate of Occupancy, permits are required to store, dispense, use or handle hazardous material. Each application for a permit shall include a hazardous materials management plan (HMMP). The location of the HMMP shall be posted adjacent to (other) permits when an HMMP is provided. The HMMP shall include a facility site plan designating the following:
- a) Storage and use areas;
 - b) Maximum amount of each material stored or used in each area;
 - c) Range of container sizes;
 - d) Locations of emergency isolation and mitigation valves and devices;
 - e) Product conveying piping containing liquids or gases, other than utility-owned fuel gas lines and low-pressure fuel gas lines;
 - f) On and off positions of valves for valves which are of the self-indicating type;
 - g) Storage plan showing the intended storage arrangement, including the location and dimensions of aisles. The plans shall be legible and approximately to scale. Separate distribution systems are allowed to be shown on separate pages; and
 - h) Site plan showing all adjacent/neighboring structures and use.

NOTE: Each application for a permit shall include a hazardous materials inventory statement (HMIS).

- F26. Before a Hazardous Materials permit is issued, the Fire Chief shall inspect and approve the receptacles, vehicles, buildings, devices, premises, storage spaces or areas to be used. In instances where laws or regulations are enforceable by departments other than the Fire Prevention Bureau, joint approval shall be obtained from all departments concerned. (CFC Appendix H)

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 581 OF 62**

- F27. Construction or work for which the Fire Prevention Bureau's approval is required shall be subject to inspection by the Fire Chief and such construction or work shall remain accessible and exposed for inspection purposes until approved. (CFC Section 106)
- F28. The Fire Prevention Bureau shall maintain the authority to inspect, as often as necessary, buildings and premises, including such other hazards or appliances designated by the Fire Chief for the purpose of ascertaining and causing to be corrected any conditions which would reasonably tend to cause fire or contribute to its spread, or any violation of the purpose or provisions of this code and of any other law or standard affecting fire safety. (CFC Section 106)
- F29. Permit requirements issued, which designate specific occupancy requirements for a particular dwelling, occupancy, or use, shall remain in effect until such time as amended by the Fire Chief. (CFC Section 104)
- F30. In accordance with the California Fire Code Appendix Chapter 1, where no applicable standards or requirements are set forth in this code, or contained within other laws, codes, regulations, ordinances or bylaws adopted by the jurisdiction, compliance with applicable standards of the National Fire Protection Association or other nationally recognized fire safety standards as are approved shall be deemed as prima facie evidence of compliance with the intent of this code as approved by the Fire Chief. (CFC Section 102.7)
- F31. Any alterations, demolitions, or change in design, occupancy and use of buildings or site will require plan submittal to the Fire Prevention Bureau with review and approval prior to installation. (CFC Appendix Chapter 1)
- F32. Emergency and Fire Protection Plans shall be provided when required by the Fire Prevention Bureau. (CFC Section 105)
- F33. Prior to construction, all traffic calming designs/devices must be approved by the Fire Marshal and City Engineer.

PUBLIC WORKS DEPARTMENT – LAND DEVELOPMENT DIVISION

The following are the Public Works Department – Land Development Division Conditions of Approval for this project and shall be completed at no cost to any government agency. All questions regarding the intent of the following conditions shall be referred to the Public Works Department – Land Development Division.

General Conditions

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 582 OF 62**

- LD1.** (G) The developer shall comply with all applicable City ordinances and resolutions including the City's Municipal Code (MC) and if subdividing land, the Government Code (GC) of the State of California, specifically Sections 66410 through 66499.58, said sections also referred to as the Subdivision Map Act (SMA). (MC 9.14.010)
- LD2.** (G) If the project involves the subdivision of land, maps may be developed in phases with the approval of the City Engineer. Financial security shall be provided for all improvements associated with each phase of the map. The boundaries of any multiple map increment shall be subject to the approval of the City Engineer. The City Engineer may require the dedication and construction of necessary utilities, streets or other improvements outside the area of any particular map, if the improvements are needed for circulation, parking, access, or for the welfare or safety of the public. (MC 9.14.080, GC 66412 and 66462.5) If the project does not involve the subdivision of land and it is necessary to dedicate right-of-way/easements, the developer shall make the appropriate offer of dedication by separate instrument. The City Engineer may require the construction of necessary utilities, streets or other improvements beyond the project boundary, if the improvements are needed for circulation, parking, access, or for the welfare or safety of the public.
- LD3.** (G) It is understood that the tentative map and plot plan correctly shows all existing easements, traveled ways, and drainage courses, and that their omission may require the map or plans associated with this application to be resubmitted for further consideration. (MC 9.14.040)
- LD4.** (G) In the event right-of-way or offsite easements are required to construct offsite improvements necessary for the orderly development of the surrounding area to meet the public health and safety needs, the developer shall make a good faith effort to acquire the needed right-of-way in accordance with the Land Development Division's administrative policy. In the event that the developer is unsuccessful, he shall enter into an agreement with the City to acquire the necessary right-of-way or offsite easements and complete the improvements at such time the City acquires the right-of-way or offsite easements which will permit the improvements to be made. The developer shall be responsible for all costs associated with the right-of-way or easement acquisition. (GC 66462.5)
- LD5.** (G) If improvements associated with this project are not initiated within two years of the date of approval of the Public Improvement Agreement, the City Engineer may require that the improvement cost estimate associated with the project be modified to reflect current City construction costs in effect at the time of request for an extension of time for the Public Improvement Agreement or issuance of a permit.

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 583 OF 62**

- LD6.** (G) The developer shall monitor, supervise and control all construction and construction supportive activities, so as to prevent these activities from causing a public nuisance, including but not limited to, insuring strict adherence to the following:
- (a) Removal of dirt, debris, or other construction material deposited on any public street no later than the end of each working day.
 - (b) Observance of working hours as stipulated on permits issued by the Public Works Department.
 - (c) The construction site shall accommodate the parking of all motor vehicles used by persons working at or providing deliveries to the site.
 - (d) All dust control measures per South Coast Air Quality Management District (SCAQMD) requirements shall be adhered to during the grading operations.

Violation of any condition or restriction or prohibition set forth in these conditions shall subject the owner, applicant, developer or contractor(s) to remedies as noted in the City Municipal Code 8.14.090. In addition, the City Engineer or Building Official may suspend all construction related activities for violation of any condition, restriction or prohibition set forth in these conditions until such time as it has been determined that all operations and activities are in conformance with these conditions.

- LD7.** (G) The developer shall protect downstream properties from damage caused by alteration of drainage patterns, i.e., concentration or diversion of flow. Protection shall be provided by constructing adequate drainage facilities, including, but not limited to, modifying existing facilities or by securing a drainage easement. (MC 9.14.110)
- LD8.** (G) A detailed drainage study shall be submitted to the City Engineer for review and approval at the time of any improvement or grading plan submittal. The study shall be prepared by a registered civil engineer and shall include existing and proposed hydrologic conditions. Hydraulic calculations are required for all drainage control devices and storm drain lines. (MC 9.14.110). Prior to approval of the related improvement or grading plans, the developer shall submit the approved drainage study, on compact disk, in (.pdf) digital format to the Land Development Division of the Public Works Department.
- LD9.** (G) Prior to final map approval, commencing applicable street improvements, or obtaining the first building permit, the developer shall enter into a Development Impact Fee (DIF) Improvement Credit Agreement to secure credit and reimbursement for the construction of applicable arterial street, traffic signal,

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 584 OF 62**

and/or interchange improvements. If the developer fails to complete this agreement prior to the timing as specified above, no credits or reimbursements will be given. The applicant shall pay Arterial Streets, Traffic Signals, and Interchange Improvements development impact fees adopted by the City Council by resolution. (Ord. 695 § 1.1 (part), 2005) (MC 3.38.030, .040, .050)

LD10. (G) The final conditions of approval issued by the Planning Division subsequent to Planning Commission approval shall be photographically or electronically placed on mylar sheets and included in the Grading and Street Improvement plan sets on twenty-four (24) inch by thirty-six (36) inch mylar and submitted with the plans for plan check. These conditions of approval shall become part of these plan sets and the approved plans shall be available in the field during grading and construction.

LD11. (G) Upon approval of the tentative tract map and plot plan by the Planning Commission, the Developer shall submit the approved tentative tract map or plot plan on compact disk in (.dxf) digital format to the Land Development Division of the Public Works Department.

Prior to Grading Plan Approval or Grading Permit

LD12. (GPA) Prior to approval of the grading plans, plans shall be drawn on twenty-four (24) inch by thirty-six (36) inch mylar and signed by a registered civil engineer and other registered/licensed professional as required.

LD13. (GPA) Prior to approval of grading plans, the developer shall ensure compliance with the City Grading ordinance, these Conditions of Approval and the following criteria:

- a. The project street and lot grading shall be designed in a manner that perpetuates the existing natural drainage patterns with respect to tributary drainage area and outlet points. Unless otherwise approved by the City Engineer, lot lines shall be located at the top of slopes.
- b. Any grading that creates cut or fill slopes adjacent to the street shall provide erosion control, sight distance control, and slope easements as approved by the City Engineer.
- c. A grading permit shall be obtained from the Public Works Department Land Development Division prior to commencement of any grading outside of the City maintained road right-of-way.
- d. All improvement plans are substantially complete and appropriate clearance and at-risk letters are provided to the City. (MC 9.14.030)

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 585 OF 62**

- e. The developer shall submit a soils and geologic report to the Public Works Department – Land Development Division. The report shall address the soil’s stability and geological conditions of the site.

LD14. (GPA) Prior to grading plan approval, the developer shall select and implement treatment control best management practices (BMPs) that are medium to highly effective for treating Pollutants of Concern (POC) for the project. Projects where National Pollution Discharge Elimination System (NPDES) mandates water quality treatment control best management practices (BMPs) shall be designed per the City of Moreno Valley guidelines or as approved by the City Engineer.

LD15. (GPA) Prior to approval of the grading plans for projects that will result in discharges of storm water associated with construction with a soil disturbance of one or more acres of land, the developer shall submit a Notice of Intent (NOI) and obtain a Waste Discharger’s Identification number (WDID#) from the State Water Quality Control Board (SWQCB). The WDID# shall be noted on the grading plans prior to issuance of the first grading permit.

LD16. (GPA) Prior to the grading plan approval, or issuance of a building permit, if a grading permit is not required, the Developer shall submit two (2) copies of the final project-specific Water Quality Management Plan (WQMP) for review by the City Engineer that :

- a. Addresses Site Design Best Management Practices (BMPs) such as minimizing impervious areas, maximizing permeability, minimizes directly connected impervious areas to the City’s street and storm drain systems, and conserves natural areas;
- b. Incorporates Source Control BMPs and provides a detailed description of their implementation;
- c. Incorporates Treatment Control BMPs and provides information regarding design considerations;
- d. Describes the long-term operation and maintenance requirements for BMPs requiring maintenance; and
- e. Describes the mechanism for funding the long-term operation and maintenance of the BMPs.

A copy of the final WQMP template can be obtained on the City’s Website or by contacting the Land Development Division of the Public Works Department.

LD17. (GPA) Prior to the grading plan approval, or issuance of a building permit, if a grading permit is not required, the Developer shall record a “Stormwater Treatment Device and Control Measure Access and Maintenance Covenant,” to provide public notice of the requirement to implement the approved final project-

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 586 OF 62**

specific WQMP and the maintenance requirements associated with the WQMP.

A boilerplate copy of the “Stormwater Treatment Device and Control Measure Access and Maintenance Covenant,” can be obtained by contacting the Land Development Division of the Public Works Department

- LD18.** (GPA) Prior to the grading plan approval, or issuance of a building permit, if a grading permit is not required, the Developer shall secure approval of the final project-specific WQMP from the City Engineer. The final project-specific WQMP shall be submitted at the same time of grading plan submittal. The approved final WQMP shall be submitted to the Storm Water Program Manager on compact disk(s) in Microsoft Word format prior to grading plan approval.
- LD19.** (GPA) Prior to the grading plan approval, or issuance of a building permit as determined by the City Engineer, the approved final project-specific WQMP shall be incorporated by reference or attached to the project’s Storm Water Pollution Prevention Plan as the Post-Construction Management Plan.
- LD20.** (GPA) Prior to grading plan approval, the developer shall prepare a Storm Water Pollution Prevention Plan (SWPPP) in conformance with the state’s Construction Activities Storm Water General Permit. A copy of the current SWPPP shall be kept at the project site and be available for review upon request. The SWPPP shall be submitted to the Storm Water Program Manager on compact disk(s) in Microsoft Word format.
- LD21.** (GPA) Prior to the approval of the grading plans, the developer shall pay applicable remaining grading plan check fees.
- LD22.** (GPA/MA) Prior to the later of either grading plan or final map approval, resolution of all drainage issues shall be as approved by the City Engineer.
- LD23.** (GP) Prior to issuance of a grading permit, or building permit when a grading permit is not required, for projects that require a project-specific Water Quality Management Plan (WQMP), a project-specific final WQMP (F-WQMP) shall be approved. Upon approval, a WQMP Identification Number is issued by the Storm Water Management Section and shall be noted on the rough grading plans as confirmation that a project-specific F-WQMP approval has been obtained.
- LD24.** (GP) Prior to the issuance of a grading permit the developer shall submit recorded slope easements from adjacent landowners in any areas where grading resulting in slopes is proposed to take place outside of the project boundaries. For all other offsite grading, written permission from adjacent property owners shall be submitted.

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 587 OF 62**

- LD25.** (GP) Prior to issuance of a grading permit, if the fee has not already been paid prior to map approval or prior to issuance of a building permit if a grading permit is not required, the developer shall pay Area Drainage Plan (ADP) fees. The developer shall provide a receipt to the City showing that ADP fees have been paid to Riverside County Flood Control and Water Conservation District. (MC 9.14.100)
- LD26.** (GP) Prior to issuance of a grading permit, security, in the form of a cash deposit (preferable), letter of credit, or performance bond shall be required to be submitted as a guarantee of the completion of the grading required as a condition of approval of the project.
- LD27.** (GP) Prior to issuance of a grading permit, the developer shall pay the applicable grading inspection fees.

Prior to Map Approval or Recordation

- LD28.** (MA) Prior to approval of the map, all street dedications shall be irrevocably offered to the public and shall continue in force until the City accepts or abandons such offers, unless otherwise approved by the City Engineer. All dedications shall be free of all encumbrances as approved by the City Engineer.
- LD29.** (MA) Prior to approval of the map, security shall be required to be submitted as a guarantee of the completion of the improvements required as a condition of approval of the project. A public improvement agreement will be required to be executed.
- LD30.** (MA) Prior to approval of the map, the developer shall enter into an agreement with the City and Riverside County Flood Control and Water Conservation District establishing the terms and conditions covering the inspection, operation and maintenance of Master Drainage Plan facilities required to be constructed as part of the project. (MC 9.14.110)
- LD31.** (MR) Prior to recordation of the map the developer shall comply with the requirements of the City Engineer based on recommendations of the Riverside County Flood Control District regarding the construction of County Master Plan Facilities. (MC 9.14.110)
- LD32.** (MR) Prior to recordation of the final map, this project is subject to requirements under the current permit for storm water activities required as part of the National Pollutant Discharge Elimination System (**NPDES**) as mandated by the Federal Clean Water Act. In compliance with Proposition 218, the developer shall agree to approve the City of Moreno Valley NPDES Regulatory Rate Schedule that is in place at the time of recordation. Following are the requirements:

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 588 OF 62**

- a. Select one of the following options to meet the financial responsibility to provide storm water utilities services for the required operation and maintenance monitoring and system evaluations in accordance with Resolution No. 2002-46.
 - i. Participate in the mail ballot proceeding in compliance with Proposition 218, for the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule and pay all associated costs with the ballot process; or
 - ii. Establish an endowment to cover future City costs as specified in the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule.
- b. Notify the Special Districts Division of the intent to record the final map 90 days prior to City Council action authorizing recordation of the final map and the financial option selected. (California Government Code & Municipal Code)

LD33. (MR) Prior to recordation of the Final Map, the Grading Plan (s) and Landscape and Irrigation Plan (s) prepared for the "Water Quality Ponds/Bio-Swales" shall be drawn on twenty-four (24) inch by thirty-six (36) inch mylar and signed by a registered civil engineer or other registered/licensed professional as required. The developer, or the developer's successors or assignees shall secure the initials of the Engineering Division Manager or his designee on the mylars prior to the plans being approved by the City Engineer. (MC 9.14.100.C.2)

LD34. (MR) Prior to recordation of the map, the developer shall submit the map, on compact disks, in (.dxf) digital format to the Land Development Division of the Public Works Department.

Prior to Improvement Plan Approval or Construction Permit

LD35. (IPA) Prior to approval of the improvement plans, the improvement plans shall be drawn on twenty-four (24) inch by thirty-six (36) inch mylar and signed by a registered civil engineer and other registered/licensed professional as required.

LD36. (IPA) Prior to approval of the improvement plans, the developer shall submit clearances from all applicable agencies, and pay all outstanding plan check fees. (MC 9.14.210)

LD37. (IPA) All public improvement plans prepared and signed by a registered civil engineer in accordance with City standards, policies and requirements shall be approved by the City Engineer in order for the Public Improvement Agreement and accompanying security to be executed.

LD38. (IPA) Prior to approval of the improvement plans, securities and a public improvement agreement shall be required to be submitted and executed as a

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 589 OF 62**

guarantee of the completion of the improvements required as a condition of approval of the project.

LD39. (IPA) The street improvement plans shall comply with all applicable City standards and the following design standards throughout this project:

- a. Corner cutbacks in conformance with City Standard 208 shall be shown on the final map or, if no map is to be recorded, offered for dedication by separate instrument.
- b. Lot access to major thoroughfares shall be restricted except at intersections and approved entrances and shall be so noted on the final map. (MC 9.14.100)
- c. The minimum centerline and flow line grades shall be one percent unless otherwise approved by the City Engineer. (MC 9.14.020)

LD40. (IPA) Prior to approval of the improvement plans, the plans shall be based upon a centerline profile, extending beyond the project boundaries a minimum distance of 300 feet at a grade and alignment approved by the City Engineer. Design plan and profile information shall include the minimum 300 feet beyond the project boundaries.

LD41. (IPA) Prior to approval of the improvement plans, the plans shall indicate any restrictions on trench repair pavement cuts to reflect the City's moratorium on disturbing newly-constructed pavement less than three years old and recently slurry sealed streets less than one year old. Pavement cuts for trench repairs may be allowed for emergency repairs or as specifically approved in writing by the City Engineer.

LD42. (IPA) Prior to approval of the improvement plans, the developer is required to bring any existing access ramps adjacent to and fronting the project to current ADA (Americans with Disabilities Act) requirements. However, when work is required in an intersection that involves or impacts existing access ramps, those access ramps in that intersection shall be retrofitted to comply with current ADA requirements, unless approved otherwise by the City Engineer.

LD43. (IPA) Prior to approval of the improvement plans, any drainage facilities with sump conditions shall be designed to convey the tributary 100-year storm flows. Secondary emergency escape shall also be provided. (MC 9.14.110)

LD44. (IPA) Prior to the approval of the improvement plans, the hydrology study shall show that the 10-year storm flow will be contained within the curb and the 100-year storm flow shall be contained within the street right-of-way. In addition, one lane in each direction shall not be used to carry surface flows during any storm

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 590 OF 62**

event for street sections equal to or larger than a minor arterial. When any of these criteria is exceeded, additional drainage facilities shall be installed. (MC 9.14.110 A.2)

LD45. (IPA) The project shall be designed to accept and properly convey all off-site drainage flowing onto or through the site. All storm drain design and improvements shall be subject to review and approval of the City Engineer. In the event that the City Engineer permits the use of streets for drainage purposes, the provisions of the Development Code will apply. Should the quantities exceed the street capacity or the use of streets be prohibited for drainage purposes, as in the case where one travel lane in each direction shall not be used for drainage conveyance for emergency vehicle access on streets classified as minor arterials and greater, the developer shall provide adequate facilities as approved by the Public Works Department – Land Development Division. (MC 9.14.110)

LD46. (CP) All work performed within the City right-of-way requires a construction permit. As determined by the City Engineer, security may be required for work within the right-of-way. Security shall be in the form of a cash deposit or other approved means. The City Engineer may require the execution of a public improvement agreement as a condition of the issuance of the construction permit. All inspection fees shall be paid prior to issuance of construction permit. (MC 9.14.100)

LD47. (CP) Prior to issuance of a construction permit, all public improvement plans prepared and signed by a registered civil engineer in accordance with City standards, policies and requirements shall be approved by the City Engineer.

LD48. (CP) Prior to issuance of construction permits, the developer shall submit all improvement plans on compact disks, in (.dxf) digital format to the Land Development Division of the Public Works Department.

LD49. (CP) Prior to issuance of construction permits, the developer shall pay all applicable inspection fees.

Prior to Building Permit

LD50. (BP) Prior to issuance of a building permit (excluding model homes), an approval by the City Engineer is required of the water quality control basin(s). The developer shall provide certification to the line, grade, flow test and system invert elevations.

LD51. (BP) Prior to issuance of a building permit, all pads shall meet pad elevations per approved plans as noted by the setting of “Blue-top” markers installed by a registered land surveyor or licensed engineer.

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 591 OF 62**

LD52. (BP) Prior to issuance of a building permit, the developer shall submit for review and approval, a Waste Management Plan (WMP) that shows data of waste tonnage, supported by original or certified photocopies of receipts and weight tags or other records of measurement from recycling companies and/or landfill and disposal companies. The Waste Management Plan shall contain the following:

- a. The estimated volume or weight of project waste to be generated by material type. Project waste or debris may consist of vegetative materials including trees, tree parts, shrubs, stumps, logs, brush, or any other type of plants that are cleared from a site. Project waste may also include roadwork removal, rocks, soils, concrete and other material that normally results from land clearing.
- b. The maximum volume or weight of such materials that can be feasibly diverted via reuse and recycling.
- c. The vendor(s) that the applicant proposes to use to haul the materials.
- d. Facility(s) the materials will be hauled to, and their expected diversion rates.
- e. Estimated volume or weight of clearing, grubbing, and grading debris that will be landfilled .

Approval of the WMP requires that at least fifty (50) percent of all clearing, grubbing, and grading debris generated by the project shall be diverted, unless the developer is granted an exemption. Exemptions for diversions of less than fifty (50) percent will be reviewed on a case by case basis. (AB939, MC 8.80)

Prior to Certificate of Occupancy

LD53. (CO) Prior to issuance of a certificate of occupancy, if the project involves a non-residential subdivision, the map shall be recorded.

LD54. (CO) Prior to issuance of the last certificate of occupancy or building final, the developer shall pay all outstanding fees.

LD55. (CO) The City of Moreno Valley has an adopted Development Impact Fee (DIF) nexus study. All projects unless otherwise exempted shall be subject to the payment of the DIF prior to issuance of occupancy. The fees are subject to the provisions of the enabling ordinance and the fee schedule in effect at the time of occupancy.

LD56. (CO) The City of Moreno Valley has an adopted area wide Transportation Uniform Mitigation Fee (TUMF). All projects unless otherwise exempted shall be subject to the payment of the TUMF prior to issuance of occupancy. The fees

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 592 OF 62**

are subject to the provisions of the enabling ordinance and the fee schedule in effect at the time of occupancy.

LD57. (CO) Prior to issuance of a certificate of occupancy or building final, the developer shall construct all public improvements in conformance with applicable City standards, except as noted in the Special Conditions, including but not limited to the following applicable improvements:

- a. Street improvements including, but not limited to: pavement, base, curb and/or gutter, cross gutters, spandrel, sidewalks, drive approaches, pedestrian ramps, street lights, signing, striping, under sidewalk drains, landscaping and irrigation, medians, redwood header boards, pavement tapers/transitions and traffic control devices as appropriate.
- b. Storm drain facilities including, but not limited to: storm drain pipe, storm drain laterals, open channels, catch basins and local depressions.
- c. City-owned utilities.
- d. Sewer and water systems including, but not limited to: sanitary sewer, potable water and recycled water.
- e. Under grounding of existing and proposed utility lines less than 115,000 volts.
- f. Relocation of overhead electrical utility lines including, but not limited to: electrical, cable and telephone.

LD58. (CO) Prior to issuance of a certificate of occupancy or building final, all existing and new utilities adjacent to and on-site shall be placed underground in accordance with City of Moreno Valley ordinances. (MC 9.14.130)

LD59. (CO) Prior to issuance of a certificate of occupancy or building final, in order to treat for water quality the sub-area tributary to the basin, the Developer must comply with the following:

- a. The water quality basin and all associated treatment control BMPs and all hardware per the approved civil drawing must be constructed, certified and approved by the City Engineer including, but not limited to, piping, forebay, aftbay, trash rack, etc.) Landscape and irrigation plans are not approved for installation at this time.
- b. Provide the City with an Engineer's Line and Grade Certification.
- c. Perform and pass a flow test per City test procedures.

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 593 OF 62**

LD60. (CO) Prior to issuance of a certificate of occupancy or building final for any Commercial/Industrial facility, whichever occurs first, the owner may have to secure coverage under the State's General Industrial Activities Storm Water Permit as issued by the State Water Resources Control Board.

Prior to Acceptance of Streets into the City Maintained Road System

LD61. (AOS) Aggregate slurry, as defined in Section 203-5 of Standard Specifications for Public Works Construction, may be required just prior to acceptance of the entire tract street(s) into the City maintained road system at the discretion of the City Engineer. If slurry is required, the developer/contractor must provide a slurry mix design submittal for City Engineer approval. The latex additive shall be Ultra Pave 70 (for anionic – per project geotechnical report) or Ultra Pave 65 K (for cationic – per project geotechnical report) or an approved equal. The latex shall be added at the emulsion plant after weighing the asphalt and before the addition of mixing water. The latex shall be added at a rate of two to two-and-one-half (2 to 2½) parts to one-hundred (100) parts of emulsion by volume. Any existing striping shall be removed prior to slurry application and replaced per City standards.

SPECIAL CONDITIONS

LD62. Prior to approval of the rough grading plan, this project shall demonstrate, via a final drainage study, that the increased runoff resulting from the development of this site is mitigated. During no storm event shall the flow leaving the site in the developed condition be larger than that of the pre-developed condition. The drainage study shall analyze the following events: 1, 3, 6 and 24-hour duration events for the 2, 5, 10 and 100-year storm events. The applicant understands that additional detention measures, beyond those shown on the tentative map and preliminary drainage study, may be required.

LD63. Prior to approval of the precise grading plan, the developer shall obtain the following offsite dedications from the adjacent property owner(s), per separate instrument, and submitted to the City for review and approval. The offsite area referenced is located between the project's east boundary line and Redlands Boulevard.

- a. A 10-foot street right-of-way dedication on the north side of Eucalyptus Avenue (formerly Fir Avenue) starting from this project's east boundary line east to Redlands Boulevard to ensure a centerline to north right-of-way distance of 50 feet for an Arterial, City Standard 104A.
- b. A 39-foot half street right-of-way dedication on the entire east side of "A" Street within the adjacent offsite properties 488-330-027 and 488-

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 594 OF 62**

330-028 to ensure a centerline to east right-of-way distance of 39 feet for an Industrial Collector, City Standard 106.

- c. A 2-foot public access easement for the portions of sidewalk which are outside of the public right-of-way, along the north side of Eucalyptus Avenue from this project's east property line east to Redlands Boulevard.**
- d. An 11-foot multi-use trail easement to the City adjoining and north of the 2-foot public access easement listed above for trail purposes, along the north side of Eucalyptus Avenue from this project's east property line east to Redlands Boulevard.**
- e. Any necessary corner cutback right-of-way dedications per City Standard 208.**

LD64. Prior to approval of the precise grading plans, the plans shall show any proposed trash enclosure as dual bin; one bin for trash and one bin for recyclables. The trash enclosure shall be per City Standard Plan 627.

LD65. Prior to approval of the precise grading plans, the grading plans shall clearly show that the parking lot conforms to current City and ADA standards. The parking lot shall be 5% maximum, 1% minimum, 2% maximum at or near any disabled parking stall and travel way. Ramps, curb openings and travel paths shall all conform to current ADA standards as outlined in Department of Justice's "ADA Standards for Accessible Design", Excerpt from 28 CFR Part 36. (www.usdoj.gov) and as approved by the City's Building and Safety Division.

LD66. Prior to precise grading plan approval, the plans shall show roof drains directed to a landscaped area rather than being routed directly to the parking lot. Alternatively, roof drain flows can be directed to private storm drains which will connect to the treatment control best management practice. This shall be shown in the approved F-WQMP.

LD67. Prior to approval of the grading and/or improvement plans, the plans shall show the relocation of the existing water line near State Highway 60 so that it is located outside of the lettered lot being conveyed to the City for future highway expansion purposes. Ideally, the water line shall be relocated within the Eucalyptus Avenue right-of-way. The developer shall coordinate with the utility purveyor Eastern Municipal Water District (EMWD) and the City. The developer will be responsible for quitclaiming the existing abandoned easement as well as obtaining any necessary new easements.

LD68. Prior to approval of the grading and/or improvement plans, the plans will be required to show the design for any proposed improvements to the

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 595 OF 62**

existing Quincy Channel, along the entire west side of the project and any off-site upstream or downstream improvements, as necessary. The design may require the approval of both the Riverside County Flood Control and Water Conservation District (RCFC&WCD) and the City. The improvements may require, but not be limited to, construction of a scour wall including soil removal and recompaction and a maintenance access road including a driveway approach from Eucalyptus Avenue. The developer will be responsible for obtaining the appropriate permit(s) and clearance(s).

LD69. Prior to approval of the grading and/or improvement plans, the plans shall show the design for the proposed improvements to the existing ditch located on the west side of Redlands Boulevard. Improvements may include, but not be limited to, the reconstruction of the existing headwall, the installation of energy dissipater(s), and a proposed pipe culvert under Eucalyptus Avenue.

LD70. Prior to the issuance of a grading permit, the developer shall secure all necessary off-site drainage easements for the proposed offsite drainage improvements. All easements shall be plotted and labeled on the design plans. Written permission must be obtained from off-site property owner(s) for all off-site grading and easements.

LD71. Prior to approval of the improvement plans, the plans shall show the design for the installation of storm drain Line D-3 of RCFC&WCD's Moreno Area Drainage Plan (ADP). The plans shall show all accompanying drainage improvements such as catch basins, laterals, etc. to properly collect and convey storm flows to Line D-3. Line D-3 shall connect to the existing ditch located on the west side of Redlands Boulevard. The design shall be approved by both RCFC&WCD and the City.

LD72. Prior to approval of the parcel map, the map shall show the appropriate dedication along State Highway 60, shown as a lettered lot, and conveyed to the City, for future highway expansion, consistent with Caltrans' current expansion plans, as approved by the City Engineer.

LD73. Prior to the approval of the parcel map, the map shall show the area near Quincy Channel as a lettered lot or a "Private Drainage Easement". If the subject area is to be maintained by RCFC&WCD, then the lettered lot shall be dedicated to the City and the City will quitclaim the area to RCFC&WCD according to a Cooperative Agreement between RCFC&WCD, the City and property owner. If the subject area is to remain unimproved, then a "Private Drainage Easement" shall be shown on the map. The easement shall be coordinated with the City and acknowledged in the Owner's Statement, of the parcel map, as being "reserved for ourselves, assigns, or successors for drainage purposes".

LD74. Prior to approval of the parcel map, the map shall show the following:

- a. A 10-foot street right-of-way dedication on the north side of Eucalyptus Avenue (formerly Fir Avenue) along project's south frontage to ensure a centerline to north right-of-way distance of 50 feet for an Arterial, City Standard 104A.
- b. A 39-foot half street right-of-way dedication on the entire west side of "A" Street along this project's east frontage to ensure a centerline to west right-of-way distance of 39 feet for an Industrial Collector, City Standard 106.
- c. The appropriate street right-of-way dedication for a cul-de-sac at the northern terminus of "A" Street per City Standard Plan 123.
- d. A 4-foot minimum pedestrian right-of-way dedication behind any driveway approach per City Standard 118C, on both Eucalyptus Avenue and "A" Street.
- e. A 2-foot public access easement to the City for the portions of sidewalk which are outside of the public right-of-way, along the north side of Eucalyptus Avenue.
- f. An 11-foot multi-use trail easement to the City adjoining and north of the 2-foot public access easement listed above for trail purposes, along the north side of Eucalyptus Avenue.
- g. Corner cutback right-of-way dedications per City Standard 208.

LD75. Prior to approval of the parcel map, the Developer shall guarantee the construction of the following improvements by entering into a public improvement agreement and posting security. The improvements shall be completed prior to occupancy of the first building or as otherwise determined by the City Engineer.

- a. Redlands Boulevard, future Divided Arterial, City Standard 103A (110-foot RW / 66-foot CC) shall not be constructed to its ultimate half-width improvements with this project. However, it is acknowledged that some level of interim improvements will be required to facilitate the orderly development of this project. This project shall install the required interim improvements as directed by the City's Land Development and Transportation Engineering Divisions during design plan check. Improvements might consist of, but not be limited to, pavement, base, street widening to include an

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 597 OF 62**

auxiliary lane from the SH-60 E/B off-ramp south to Eucalyptus Avenue, redwood header, curb and/or AC berm, drainage structures, any necessary offsite improvement transition/joins to existing, streetlights, pedestrian ramps, removal/relocation and/or undergrounding of any power poles with overhead utility lines less than 115,000 volts, and dry and wet utilities.

- b. Eucalyptus Avenue (formerly Fir Avenue), Arterial, City Standard 104A (100-foot RW / 76-foot CC) shall be constructed to half-width plus an additional 18 feet south of the centerline, with an additional 5 foot gravel shoulder south of the 18 feet, along the entire project's south frontage and continuing offsite easterly to Redlands Boulevard. A 10-foot right-of-way dedication on the north side of the street, along the project's south property line, shall be shown on the parcel map. Required offsite dedications shall be per separate instrument. Improvements shall consist of, but not be limited to, pavement, base, redwood header, gravel, curb, gutter, sidewalk, a multi-use trail as approved by the City's Parks and Community Services Department, landscaping, driveway approaches, drainage structures, any necessary offsite improvement transition/joins to existing, streetlights, pedestrian ramps, removal/relocation and/or undergrounding of any power poles with overhead utility lines less than 115,000 volts, and dry and wet utilities.
- c. "A" Street, Industrial Collector, City Standard 106 (78-foot RW / 56-foot CC) shall be constructed to half-width plus an additional 18 feet minimum east of the centerline, along the project's east property line, however, per the planning level documents, the applicant has opted to construct full-width improvements. A 39-foot right-of-way dedication on the west side of the street, along the project's east property line, shall be shown on the parcel map. Required offsite dedications shall be per separate instrument. Improvements shall consist of, but not be limited to, pavement, base, curb, gutter, sidewalk, driveway approaches, drainage structures, any necessary offsite improvement transition/joins to existing, streetlights, pedestrian ramps, dry and wet utilities.
- d. The developer shall ensure adequate turn-around on Eucalyptus Avenue at the west end of the project, east of Quincy Channel, as approved by the City's Land Development, Transportation Engineering and Fire Prevention Divisions/Department.
- e. Driveway approaches shall be constructed per City Standard No. 118C. The parcel map shall show an additional 4-foot right-of-way

dedication behind driveway approaches. No decorative pavers shall be placed within the public right-of-way.

- f. The developer shall install all necessary on-site and off-site drainage improvements to properly collect and convey drainage entering, within and leaving the project. This may include, but not be limited to on-site and perimeter drainage improvements to properly convey drainage within and along the project site, and downstream off-site improvements of master plan storm drain lines. The developer shall construct the following storm drain lines: Line D-3 in Eucalyptus Avenue of the Moreno Master Drainage Plan.

LD76. The Applicant shall prepare and submit for approval a final, project-specific water quality management plan (F-WQMP). The F-WQMP shall be consistent with the approved P-WQMP and in full conformance with the document; "Riverside County Water Quality Management Plan for Urban Runoff" dated July 24, 2006, errata corrected 1-22-09. The F-WQMP shall be submitted and approved prior to application for and issuance of grading permits or building permits. At a minimum, the F-WQMP shall include the following: Site design BMPs; Source control BMPs; Treatment control BMPs; Operation and Maintenance requirements for BMPs; and sources of funding for BMP implementation.

LD77. The Applicant shall select and implement treatment control BMPs that are medium to highly effective for treating Pollutants of Concern (POC) for the project. POC include project pollutants associated with a 303(d) listing or a TMDL for receiving waters.

- a. Project POC include Nutrients, Oxygen Demanding Substances, and Pathogens (Bacteria and Viruses).
- b. Exhibit C of the document, "Riverside County Water Quality Management Plan for Urban Runoff" dated July 24, 2006 shall be consulted for determining the effectiveness of proposed treatment BMPs

LD78. The Applicant has proposed to incorporate the use of an infiltration basin system and pervious concrete. Final design details of the infiltration system and pervious concrete system must be provided in the first submittal of the F-WQMP. The size of the treatment control BMPs are to be determined using the procedures set forth in Exhibit C of the Riverside County Guidance Document. The Applicant acknowledges that more area than currently shown on the plans may be required to treat site runoff as required by the WQMP guidance. All areas of infiltration shall be evaluated

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 599 OF 62**

using the Double Ring Infiltrometer Test Method (ASTM D3385). The testing shall be taken at elevations where infiltration will take place.

LD79. The Applicant shall substantiate the applicable Hydrologic Condition of Concern (HCOC) (WQMP Section IV) in the F-WQMP. The HCOC designates that the project will comply with Condition A; therefore, the condition must be addressed in the F-WQMP.

LD80. The Applicant shall, prior to building or grading permit closeout or the issuance of a certificate of occupancy, demonstrate:

- a. That all structural BMPs have been constructed and installed in conformance with the approved plans and specifications.
- b. That all structural BMPs described in the F-WQMP have been implemented in accordance with approved plans and specifications.
- c. That the applicant is prepared to implement all non-structural BMPs included in the FWQMP, conditions of approval, and building/grading permit conditions.
- d. That an adequate number of copies of the approved F-WQMP are available for the future owners/occupants of the project.

LD81. (CO) The developer has selected Option LD32a.ii to meet the financial responsibility for NPDES funding and has agreed to establish an endowment. Currently, the proposed Parcel Map 36207 includes a single numbered parcel – Parcel 1. The NPDES funding obligation for the project will need to be recalculated if additional parcels are proposed and/or created other than what is currently shown on the proposed Parcel Map 36207. Any additional funds required as a result of additional parcels will be due prior to the release of the Certificate of Occupancy.

PUBLIC WORKS DEPARTMENT – TRANSPORTATION ENGINEERING DIVISION

Note: All Special conditions are in bold lettering. All other conditions are standard

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 600 OF 62**

to all or most development projects.

Based on the information contained in our standard review process we recommend the following conditions of approval be placed on this project:

GENERAL CONDITIONS

- TE1. Future Eucalyptus Avenue is classified as an Arterial (100'RW/76'CC) per City Standard Plan No. 104A. Any modifications or improvements undertaken by this project shall be consistent with the City's standards for this facility. Sidewalk shall be curb separated. The project shall construct pavement improvements from the eastern property boundary to Redlands Boulevard consistent with Land Development conditions.**
- TE2. Future Collector Street is classified as an Industrial Collector (78'RW/56'CC) per City Standard Plan No. 106. Any modifications or improvements undertaken by this project shall be consistent with the City's standards for this facility.**

PRIOR TO GRADING PERMIT

- TE3. (GP) Prior to issuance of a grading permit, the project applicant shall submit conceptual striping plans for street improvements along Eucalyptus Avenue as well as Redlands Boulevard.**

PRIOR TO IMPROVEMENT PLAN APPROVAL OR CONSTRUCTION PERMIT

- TE4. The driveways less than or equal to 40 feet in width shall conform to Section 9.11.080, and Table 9.11.080-14 of the City's Development Code - Design Guidelines, and City Standard Plan No. 118C. Driveways wider than 40' shall be designed as intersections with pedestrian access ramps per City standards.**
- TE5. Prior to the final approval of the street improvement plans, a signing and striping plan shall be prepared per City of Moreno Valley Standard Plans - Section 4 for all streets with a cross section of 66'/44' and wider.**
- TE6. Prior to issuance of a construction permit, construction traffic control plans prepared by a qualified, Registered Civil or Traffic engineer shall be required.**
- TE7. Sight distance at driveways and on streets shall conform to City Standard Plan No. 125 A, B, and C at the time of preparation of final grading, landscape, and street improvements.**
- TE8. Prior to final approval of the street improvement plans, interim and ultimate alignment studies shall be approved by the City Traffic Engineer.**

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 601 OF 62**

TE9. Prior to the final approval of the street improvement plans, the project applicant shall prepare traffic signal design plans for the following intersections:

- **Redlands Boulevard/SR-60 Westbound Ramp**
- **Redlands Boulevard/Future Eucalyptus Avenue**

TE10. Prior to the final approval of the street improvement plans, the project applicant shall design a southbound auxiliary lane (additional southbound lane) from the SR-60 Eastbound Ramp to Future Eucalyptus Avenue. The minimum width of the auxiliary lane shall be 16’.

TE11. Prior to the final approval of the street improvement plans, the project applicant shall design the intersection of Redlands Boulevard and Eucalyptus Avenue to provide the following geometrics:

**Northbound: One left turn lane, one through lane
Southbound: One through lane, one right turn lane
Eastbound: One left turn lane, one right turn lane
Westbound: N/A**

NOTE: All curb return radii shall be 50 feet.

TE12. Prior to final approval of the street improvement plans, the project applicant shall design the intersection of Redlands Boulevard and SR-60 Westbound Ramp to provide the following geometrics:

**Northbound: One left turn lane, one through lane, one right turn lane
Southbound: One left turn lane, one shared through/right turn lane
Eastbound: One shared left turn/through/right turn lane
Westbound: One shared left turn/through/right turn lane**

TE13. Prior to issuance of a construction permit, the project applicant shall pay to the City all applicable “Fair Share” impact fees per the findings of the Environmental Impact Report.

PRIOR TO CERTIFICATE OF OCCUPANCY OR BUILDING FINAL

TE14. (CO) Prior to issuance of a certificate of occupancy, all approved signing and striping shall be installed per current City Standards and the approved plans.

TE15. (CO) Each gated entrance from a public street will be provided with the following, or as approved by the City Engineer:

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 602 OF 62**

- A. A storage lane with length sufficient to support the queuing predicted by the traffic study (minimum of 75 feet).
- B. Signing and striping at the gate, including no parking signs.
- C. A separate pedestrian entry, if pedestrian access is necessary.
- D. Presence loop detectors (or another device) within 1 or 2 feet of the gates that ensures that the gates remain open while any vehicle is in the queue.

All of these features must be kept in working order.

TE16. (CO) Prior to issuance of a certificate of occupancy, the project applicant shall construct the intersection/roadway improvements identified in TE9, TE10, TE11, and TE12 per the approved plans.

PRIOR TO ACCEPTANCE OF STREETS INTO THE CITY-MAINTAINED ROAD SYSTEM

TE17. Prior to the acceptance of streets into the City-maintained road system, all approved traffic control and signing and striping shall be installed per current City Standards and the approved plans.

PUBLIC WORKS DEPARTMENT – MORENO VALLEY UTILITY

Note: All Special Conditions, Modified Conditions, or Clarification of Conditions are in bold lettering. All other conditions are standard to all or most development projects.

Acknowledgement of Conditions

The following items are Moreno Valley Utility's Conditions of Approval for project P13-111, PA09-0022 and TPM 36207; this project shall be completed at no cost to any Government Agency. All questions regarding Moreno Valley Utility's Conditions including but not limited to, intent, requests for change/modification, variance and/or request for extension of time shall be sought from Moreno Valley Utility, the Electric Utility Division of the Public Works Department at 951.413.3500. The applicant is fully responsible for communicating with Moreno Valley Utility staff regarding their conditions.

PRIOR TO ENERGIZING MVU ELECTRIC UTILITY SYSTEM AND CERTIFICATE OF OCCUPANCY

MVU-1 (R) For single family subdivisions, a three foot easement along each side yard property line shall be shown on the final map and offered for dedication to the City of Moreno Valley for public utility purposes, unless otherwise approved by the City Engineer. If the project is a multi-family development, townhome,

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 603 OF 62**

condominium, apartment, commercial or industrial project, and it requires the installation of electric distribution facilities within common areas, a non-exclusive easement shall be provided to Moreno Valley Utility to include all such common areas. All easements shall include the rights of ingress and egress for the purpose of operation, maintenance, facility repair, and meter reading.

- MVU-2 (BP) **City of Moreno Valley Municipal Utility Service – Electrical Distribution:** Prior to constructing the MVU Electric Utility System, the developer shall submit a detailed engineering plan showing design, location and schematics for the utility system to be approved by the City Engineer. In accordance with Government Code Section 66462, the Developer **shall** execute an agreement with the City providing for the installation, construction, improvement and dedication of the utility system following recordation of final map and concurrent with trenching operations and other subdivision improvements so long as said agreement incorporates the approved engineering plan and provides financial security to guarantee completion and dedication of the utility system.

The Developer **shall** coordinate and receive approval from the City Engineer to install, construct, improve, and dedicate to the City, or the City’s designee, all utility infrastructure (including but not limited to conduit, equipment, vaults, ducts, wires, switches, conductors, transformers, and “bring-up” facilities including electrical capacity to serve the identified development and other adjoining/abutting/ or benefiting projects as determined by Moreno Valley Utility) – collectively referred to as “utility system” (to and through the development), along with any appurtenant real property easements, as determined by the City Engineer to be necessary for the distribution and /or delivery of any and all “utility services” to each lot and unit within the Tentative Map. For purposes of this condition, “utility services” shall mean electric, cable television, telecommunication (including video, voice, and data) and other similar services designated by the City Engineer. “Utility services” shall not include sewer, water, and natural gas services, which are addressed by other conditions of approval.

The City, or the City’s designee, shall utilize dedicated utility facilities to ensure safe, reliable, sustainable and cost effective delivery of utility services and maintain the integrity of streets and other public infrastructure. Developer shall, at developer’s sole expense, install or cause the installation of such interconnection facilities as may be necessary to connect the electrical distribution infrastructure within the project to the Moreno Valley Utility owned and controlled electric distribution system.

- MVU-3 This project may be subject to a Reimbursement Agreement. The project may be responsible for a proportionate share of costs associated with electrical

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 604 OF 62**

distribution infrastructure previously installed that directly benefits the project. Payment shall be required prior to issuance of building permits.

FINANCIAL & MANAGEMENT SERVICES DEPARTMENT

Special Districts Division

Note: All Special Conditions, Modified Conditions, or Clarification of Conditions are in bold lettering. All other conditions are standard to all or most development projects.

Acknowledgement of Conditions

The following items are Special Districts' Conditions of Approval for project **P13-111**; this project shall be completed at no cost to any Government Agency. All questions regarding Special Districts' Conditions including but not limited to, intent, requests for change/modification, variance and/or request for extension of time shall be sought from the Special Districts Division of the Financial & Management Services Department 951.413.3480 or by emailing specialdistricts@moval.org.

General Conditions

- SD1. The parcel(s) associated with this project have been incorporated into the Moreno Valley Community Services Districts Zones A (Parks & Community Services) and C (Arterial Street Lighting). All assessable parcels therein shall be subject to annual parcel taxes for Zone A and Zone C for operations and capital improvements.
- SD2. Any damage to existing landscape areas maintained by the Moreno Valley Community Services District due to project construction shall be repaired/replaced by the developer, or developer's successors in interest, at no cost to the Moreno Valley Community Services District.
- SD3. Street light Authorization forms, for all street lights that are conditioned to be installed as part of this project, must be submitted to the Special Districts Division for approval, prior to street light installation. The Street light Authorization form can be obtained from the utility company providing electric service to the project, either Moreno Valley Utility or Southern California Edison.
- SD4. To assist in satisfying the NPDES funding requirement, please provide a list of all Assessor's Parcel Numbers created from the recordation of Parcel Map 36207 or through any other process that would create additional parcels to the Special

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 605 OF 62**

Districts Division for the purpose of confirming the NPDES endowment requirement.

Prior to Building Permit Issuance

SD5. (BP) This project has been identified to be included in the formation of a Map Act Area of Benefit Special District for the construction of **major thoroughfares and/or freeway** improvements. The property owner(s) shall participate in such District, and pay any special tax, assessment, or fee levied upon the project property for such District. At the time of the public hearing to consider formation of the district, the property owner(s) will not protest the formation, but the property owners(s) will retain the right to object if any eventual assessment is not equitable, that is, if the financial burden of the assessment is not reasonably proportionate to the benefit which the affected property obtains from the improvements which are to be installed. The Developer must notify Special Districts of intent to request building permits 90 days prior to their issuance. (Street & Highway Code, GP Objective 2.14.2, MC 9.14.100)

SD6. (BP) This project has been identified to be included in the formation of a Community Facilities District (Mello-Roos) for **Public Safety** services, including but not limited to Police, Fire Protection, Paramedic Services, Park Rangers, and Animal Control services. The property owner(s) shall not protest the formation; however, they retain the right to object to the rate and method of maximum special tax. In compliance with Proposition 218, the developer shall agree to approve the mail ballot proceeding (special election) for either formation of the CFD or annexation into an existing district that may already be established. The Developer must notify Special Districts of intent to request building permits 90 days prior to their issuance. (California Government Code)

SD7. (BP) Prior to the issuance of the first building permit for this project, the developer shall pay Advanced Energy fees for all applicable Zone B (Residential Street Lighting) and/or Zone C (Arterial Street Lighting and Intersection Lighting) street lights required for this development. Payment shall be made to the City of Moreno Valley, as collected by the Land Development Division, based upon the Advanced Energy fee rate in place at the time of payment, as set forth in the current Listing of City Fees, Charges and Rates, as adopted by City Council.

The developer shall provide a receipt to the Special Districts Division showing that the Advanced Energy fees have been paid in full for the number of street lights to be accepted into the CSD Zone B and/or Zone C programs. Any change in the project which may increase the number of street lights to be installed will require payment of additional Advanced Energy fees at the then current fee.

SD8. (BP) Prior to release of building permit, the developer, or the developer's successors or assignees, shall record with the County Recorder's Office a

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 606 OF 62**

Covenant of Assessments for each assessable parcel therein, whereby the developer covenants the existence of the Moreno Valley Community Services District, its established benefit zones, and that said parcel(s) is (are) liable for payment of annual benefit zone charges and the appropriate National Pollutant Discharge Elimination System (NPDES) maximum regulatory rate schedule when due. A copy of the recorded Covenant of Assessments shall be submitted to the Special Districts Division. For a copy of the Covenant of Assessments form, please contact Special Districts, phone 951.413.3480.

PARKS AND COMMUNITY SERVICES DEPARTMENT

Acknowledgement of Conditions

The following items are Parks and Community Services Department Conditions of Approval for project PA08-0097. This project shall be completed at no cost to any Government Agency. All questions regarding Parks and Community Services Department Conditions including but not limited to, intent, requests for change/modification, variance and/or request for extension of time shall be sought from the Parks and Community Services Department 951.413.3280. The applicant is fully responsible for communicating with the Parks and Community Services Department project manager regarding the conditions.

PCS1. A multi-use trail shall be designated for PA08-0097/98. The trail shall be 11' wide, located along the north side of Eucalyptus Avenue (Fir Ave.). The trail requires a crossing over Quincy Street on the north side of Eucalyptus Avenue. The trail shall be designed similar to the Highland Fairview project east of Redlands Blvd. The trail shall be dedicated as an easement to the CSD. Additionally, a multi-use trail shall be located along the west side of Quincy Channel.

If the applicant's property includes this area, the applicant shall install the trail. The trail shall match the trail on Quincy Street, south of Cottonwood Avenue. This trail is approximately 14' wide, plus another 2' concrete step out from adjoining street (or parking lot). The applicant shall coordinate this trail with RCFC. The trail shall be dedicated as an easement to the CSD.

On November 19, 2008, the Trail Board recommended that the trail be located to the north side of Eucalyptus Avenue, being consistent with the Highland Fairview project.

Standard Trail Conditions

PCS2. Parks and Community Services Department

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 607 OF 62**

- a. Trail construction shall adhere to: The City's Standard Plans, 'The Greenbook Standard Specifications for Public Works Construction', 'California Code of Regulations Title 24' (where applicable), and the Park and Community Services Specification Guide.
- b. The General Contractor shall be a State of California Class 'A' General Engineering Contractor, per the Business and Professions Code Section 7056, or a combination of State of California Class 'C' licenses for which the work is being performed. Licenses must be current and in good standing, for the duration of the project.
- c. All utility easements shall not interfere with the trail or its fencing. A map of all easements and the corresponding easement rights shall be presented to Parks and Community Services prior to scheduling the Tentative Map for approval.
- d. (R) A restriction shall be placed on lots that are adjacent to the trail, preventing openings or gates accessing the trail. This shall be done through Covenants, Conditions, and Restrictions (CC&R's). A copy of the CC&R's with this/her restriction noted shall be submitted and approved by the Director of Parks and Community Services or his/her designee prior to the recordation of the Final Map.
- e. Trails shall not be shared with any above ground utilities, blocking total width access.
- f. The following plans require Parks and Community Services written approval: Tentative tract/parcel maps; rough grading plans (including all Delta changes); Final Map; precise grading plans; street improvement plans; traffic signal plans; fence and wall plans; landscape plans for areas adjacent to trails; trail improvement plans.
- g. (GP) A detailed rough grading plan with profile for the trail shall be submitted and approved by the Director of Parks and Community Services or his/her designee prior to the issuance of grading permits.
- h. Grading certification and compaction tests are required, prior to any improvements being installed.
- i. A minimum two-foot graded bench is required where trails adjoin landscaped or open space areas.
- j. (R) Prior to the approval of the Final Map, a detailed map of the trail and areas adjacent to the trail shall be submitted to the Director of Parks and Community Services or his/her designee prior for review and written approval.
- k. (R) All necessary documents to convey to the City and/or the Community Services District any required dedications for parks or open space, as specified on the tentative map or in these Conditions of Approval shall be submitted by the developer to Parks and Community Services, prior to the recordation of the final map.
- l. (R) Prior to recordation of the Final Map, the developer shall post security (bonds) to guarantee construction of the trail to the City's standards. Copies of the bonds shall be provided to Parks and Community Services, prior to the approval of the Final Map.

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 608 OF 62**

- m. (BP) Prior to the issuance of the first Building Permit, final improvement plans (mylars and AutoCAD & PDF file on a CD-ROM) shall be reviewed and approved by the Community Development Department – Planning Division; the Public Works Department – Land Development and Transportation Division; Fire Prevention; and Parks and Community Services Department. Landscaped areas adjacent to the park shall be designed to prevent water on the park.
- n. Eight sets of complete trail improvement plans shall be submitted to Parks and Community Services for routing. Adjacent landscaping and walls shall be shown on the plans. Final construction plans and details require wet stamped and signed Mylars, eight sets of bond copies and one Mylar copy from the City signed mylars, the AutoCAD file on CD, and a PDF file on CD. As-builts for the trails have the same requirements as final plan submittals.
- o. All street crossings shall be signed with approved ‘STOP’ signs, trail signs, and posts. All improved equestrian trail crossings at signalized intersections that are constructed at their ultimate locations shall have high mounted push buttons. These shall be coordinated through the Transportation Division.
- p. CSD Zone ‘A’ plan check fees shall be paid prior to the second plan check.
- q. CSD Zone ‘A’ inspection fees shall be paid prior to signing of Mylars.
- r. (BP) The trail shall be surveyed and staked by the developer. The trail shall be inspected and approved by the Director of Parks and Community Services or his/her designee prior to the issuance of any building permits for production units.
- s. Any damage to trails or fencing during construction shall be repaired by the developer and inspected by the Director of Parks and Community Services or his/her designee; prior to the last phase of building permit issuance.
- t. A minimum 38’ radius shall be incorporated on all trails where a change of direction occurs (minor or major). Additionally, widening of the trail is necessary in most situations. This is only necessary where trails share Fire Prevention access.
- u. Drive approaches shall adhere to City Std. Plan #118C.
- v. Concrete access areas to trails with decomposed granite surfaces shall be rough finished concrete (typically raked finish). The access shall extend to the main trail flat surface.
- w. (BP) In order to prevent the delay of building permit issuance, any deviation from trail fencing materials or trail surface materials shall be submitted to Director of Parks and Community Services or his/her designee and approved in writing 60-days prior to the commencement of trail construction.
- x. Any unauthorized deviation from the approved plan, specifications, City Standard Plans, or Conditions of Approval may result in the delay of building permit issuance and/or building Finals/ Certificate of Occupancy of the project conditioned for improvements.
- y. Where required, decorative solid-grouted block wall (no precision block, stucco, veneer finishes, PVC, or wood fencing) with a minimum height of 72” on the trailside shall be installed along lots that adjoin the trail. Block walls

**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 609 OF 62**

- shall be located solely on private property. If landscaping is to be utilized between the block wall and the trail, a PVC fence shall be installed along the trail separating the landscaping from the trail (where required). All block walls that have public view shall have an anti-graffiti coating per Parks and Community Services specifications. Combination block/tubular steel fences shall only be utilized where approved by Parks and Community Services. Tubular steel shall comply with Parks and Community Services standards. Coating for tubular steel shall be anti-graffiti coating for metal per Parks and Community Services specifications. If alternate products are requested, the requested material(s) shall be presented to the Director of Parks and Community Services or his/her designee for review and approval. Under no circumstances can alternate products be utilized without prior written authorization from the Director of Parks and Community Services or his/her designee.
- z.** Any damage to existing landscape or hardscape areas due to project construction shall be repaired/replaced by the developer, or developer's successors in interest, at no cost to the City or Community Services District.
 - aa.** All inspections shall be requested two (2) working days in advance from the Parks and Community Services Department at the time of rough and precise grading; fence and gate installation; curb and drainage; flatwork; D.G. installation; graffiti coating; and final inspection.
 - bb.** (BP) Trail construction in single family developments shall commence prior to 30% of total building permit issuance. Trail completion and acceptance (single family developments) for maintenance shall be completed prior to 70% of total building permit issuance.
 - cc.** (CO) Trail construction in multi-family or commercial developments shall commence with the rough grading. Trail completion and acceptance for maintenance shall be completed prior to the issuance of 50% of the total certificates-of-occupancy (for multi-family and/or commercial developments).

POLICE DEPARTMENT

Note: All Special conditions are in bold lettering. All other conditions are standard to all or most development projects

Standard Conditions

- PD1. Prior to the start of any construction, temporary security fencing shall be erected. The fencing shall be a minimum of six (6) feet high with locking, gated access and shall remain through the duration of construction. Security fencing is required if there is: construction, unsecured structures, unenclosed storage of materials and/or equipment, and/or the condition of the site constitutes a public hazard as determined by the Public Works Department. If security fencing is required, it shall remain in place until the project is completed or the above

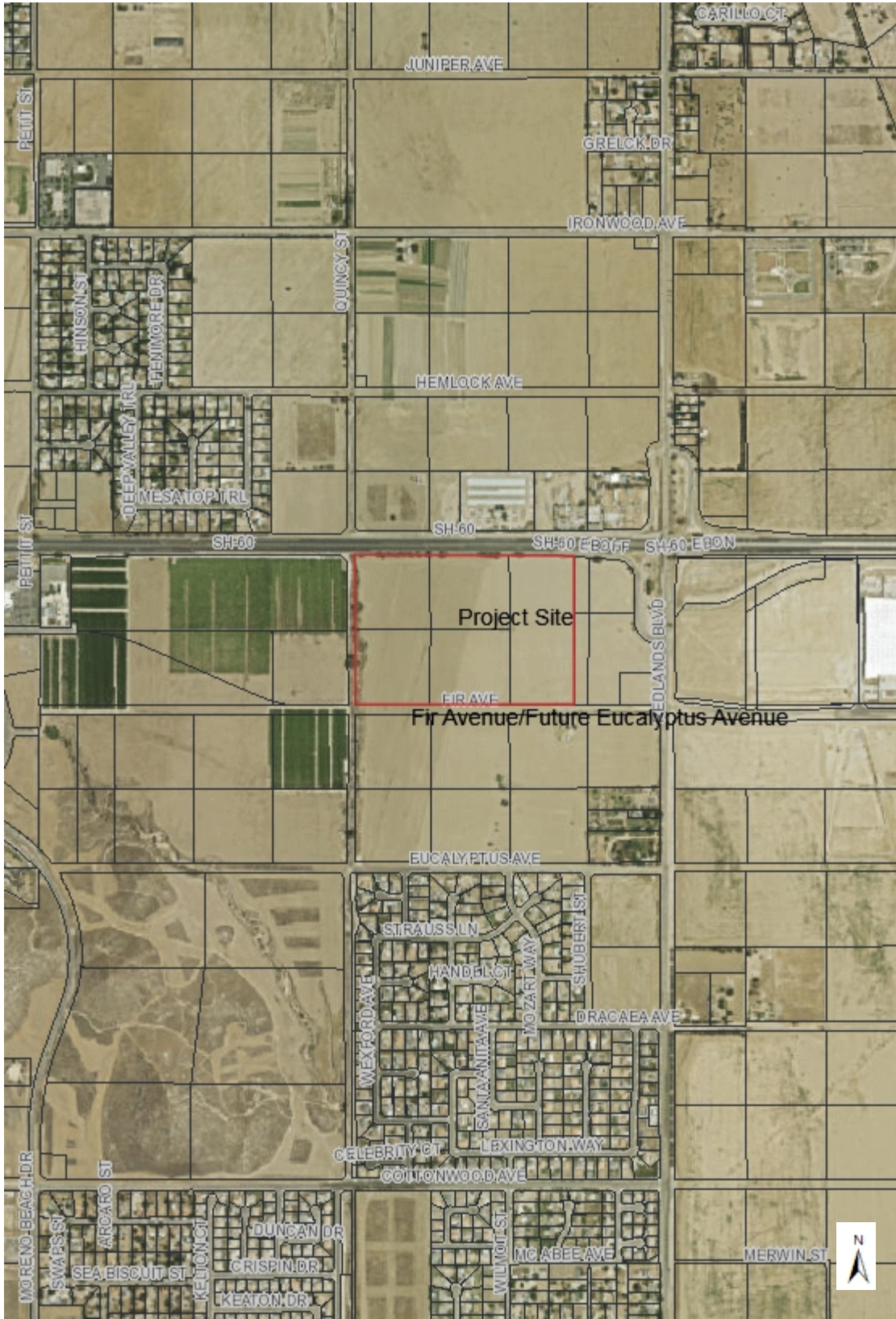
**CONDITIONS OF APPROVAL
AMENDED PLOT PLAN P13-111
PAGE 610 OF 62**

conditions no longer exist. (MC 9.08.080)

- PD2. (GP) Prior to the issuance of grading permits, a temporary project identification sign shall be erected on the site in a secure and visible manner. The sign shall be conspicuously posted at the site and remain in place until occupancy of the project. The sign shall include the following:
- a. The name (if applicable) and address of the development.
 - b. The developer's name, address, and a 24-hour emergency telephone number. (MC 9.08.080)
- PD3. (CO) Prior to the issuance of a Certificate of Occupancy, an Emergency Contact Information Form for the project shall be completed at the permit counter of the Community & Economic Development Department - Building Division for routing to the Police Department. (MC 9.08.080)



P13-111 - Aerial Photograph



Legend

- Road Labels
- Parcels
- City Boundary
- Sphere of Influence

Notes

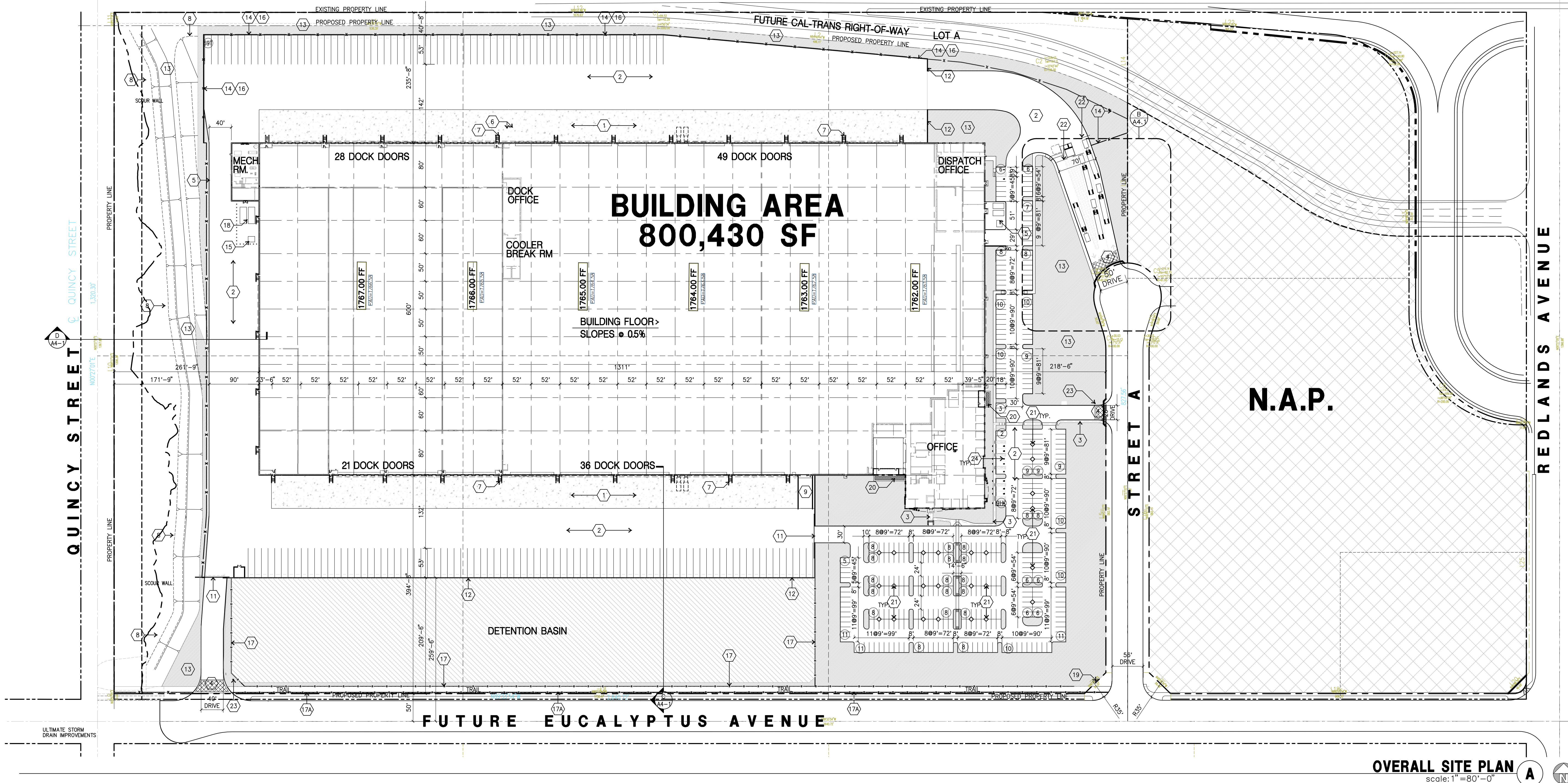
2,614.0 0 1,307.00 2,614.0 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere

Print Date: 1/9/2014

DISCLAIMER: The information shown on this map was compiled from the City of Moreno Valley GIS and Riverside County GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map.

This page intentionally left blank.



-1197-

Item No. E.3

PROJECT TABULATIONS

TABULATION	Building	Channel	Grand Total
Site Area			
Gross site area (in sq.ft.)			2,269,258
Gross site area (in acres)			52.095
Net site area (in sq.ft.)	1,976,929	161,172	2,138,101
Net site area (in acres)	45.384	3.700	49.084
Warehouse Building Area			
Office - 1st floor	25,000		
Office - 2nd floor	25,000		
Warehouse area	506,380		
Total Warehouse Area	531,380		
Perishable Area	263,800		
Mechanical Room	5,250		
Total Building Area	800,430		
Coverage (Gross)			
Coverage (Net)	40%		
Parking Provided			
Standard	365		
Handicap	9		
Total Auto Parking Provided	374		
Trailers	154		

KEYNOTES - SITE PLAN

- HEAVY BROOM FINISH CONC. PAVEMENT, SEE "C" & "S" DWGS.
- ASPHALT CONCRETE (AC) PAVING, SEE "C" DWGS.
- CONCRETE WALKWAY, SEE "L" DRAWINGS.
- DRIVEWAY APRONS TO BE CONSTRUCTED PER CITY STANDARD 118C. NO DECORATIVE PAVING WITHIN RIGHT-OF-WAY. SEE "L" DWGS.
- 5'-6" X 5'-6" X 4" MIN. THICK CONCRETE EXTERIOR LANDING PAD TYP. AT ALL EXTERIOR MAN DOORS TO LANDSCAPED AREAS. FINISH TO BE MEDIUM BROOM FINISH. SLOPE TO BE 1/4" : 12" MAX. PROVIDE WALK TO PUBLIC WAY OR DRIVE WAY W/ 1:20 MAX. AS REQ. BY CITY INSPECTOR.
- 7' SIDE X 15' LONG TRASH COMPACTOR W/ 8' WIDE X 22' LONG REFUSE CONTAINER.
- EXTERIOR CONC. STAIR.
- 8' H. COATED CHAIN-LINK FENCE OR OTHER AS APPROVED BY THE COMMUNITY DEVELOPMENT DIRECTOR.
- CONCRETE RAMP.
- 8' H. METAL SWING GATE.
- 8' H. METAL SLIDING GATE. WITH MORENO VALLEY FIRE APPROVED KNOX BOX LOCK.
- 14' H. CONCRETE SCREENWALL, PAINTED.
- LANDSCAPE. SEE "L" DWGS. LANDSCAPE AREAS INDICATED BY SHADDED PATTERN.
- 8' H. WROUGHT IRON FENCE.
- APPROXIMATE LOCATION OF TRANSFORMERS & BACK UP GENERATORS.
- RETAINING WALL, SEE "C" DWGS.
- 4' H. THREE RAIL FENCE.
- 4' H. THREE RAIL FENCE AS PER COMMUNITY DEVELOPMENT DIRECTOR.
- APPROXIMATE LOCATION OF GENERATORS.
- MONUMENT SIGN
- EMPLOYEE BREAK AREA. SEE LANDSCAPE PLANS.
- 6' X 6' DIAMOND PLANTER. SEE LANDSCAPE DRAWINGS.
- MOTOR OPERATED SWING ARM GATE
- HANDICAPPED ENTRY SIGN
- HANDICAPPED PARKING STALL SIGN

GENERAL NOTES - FLOOR PLAN

- THE SOILS REPORT PREPARED BY ASSOCIATED SOILS ENGINEERING SHOULD BE A PART OF THESE CONTRACT DOCUMENTS.
- IF SOILS ARE EXPANSIVE IN NATURE, USE STEEL REINFORCING FOR ALL SITE CONCRETE.
- ALL DIMENSIONS ARE TO THE FACE OF CONCRETE WALL, FACE OF CONCRETE CURB OR GRID LINE U.N.O.
- SEE "C" PLANS FOR ALL CONCRETE CURBS, GUTTERS AND SWALES.
- THE ENTIRE PROJECT SHALL BE PERMANENTLY MAINTAINED WITH AN AUTOMATIC IRRIGATION SYSTEM.
- SEE "C" DRAWINGS FOR POINT OF CONNECTIONS TO OFF-SITE UTILITIES. CONTRACTOR SHALL VERIFY ACTUAL UTILITY CONTRACTOR SHALL VERIFY ACTUAL UTILITY LOCATIONS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG. SEE "C" DRAWINGS.
- CONTRACTOR TO REFER TO "C" DRAWINGS FOR ALL HORIZONTAL CONTROL DIMENSIONS. SITE PLANS ARE FOR GUIDANCE AND STARTING LAYOUT POINTS.
- SEE "C" DRAWINGS FOR FINISH GRADE ELEVATIONS.
- CONCRETE SIDEWALKS TO BE A MINIMUM OF 4" THICK W/ TOOLED JOINTS AT 6' O.C. EXPANSION/CONSTRUCTION JOINTS SHALL BE A MAXIMUM 12' EA. WAY W/ 1:20 MAX. SLOPE. EXPANSION JOINTS TO HAVE COMPRESSIVE EXPANSION FILLER MATERIAL OF 1/4". SEE "L" DRAWINGS FOR FINISH.
- PAINT CURBS AND PROVIDE SIGNS TO INFORM OF FIRE LANES AS REQUIRED BY FIRE DEPARTMENT.
- CONSTRUCTION DOCUMENTS PERTAINING TO THE LANDSCAPE AND IRRIGATION OF THE ENTIRE PROJECT SITE SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND APPROVED BY PUBLIC FACILITIES DEVELOPMENT PRIOR TO ISSUANCE OF BUILDING PERMITS.
- PRIOR TO FINAL CITY INSPECTION, THE LANDSCAPE ARCHITECT SHALL SUBMIT A CERTIFICATE OF COMPLETION TO PUBLIC FACILITIES DEVELOPMENT.
- ALL LANDSCAPE AND IRRIGATION DESIGNS SHALL MEET CURRENT CITY STANDARDS AS LISTED IN GUIDELINES OR AS OBTAINED FROM PUBLIC FACILITIES DEVELOPMENT.
- LANDSCAPED AREAS SHALL BE DELINEATED WITH A MINIMUM SIX INCHES (6") HIGH CURB
- APPROVED CONCEPTUAL LANDSCAPE PLAN PRIOR TO GRADING PERMIT

PROJECT INFORMATION

Owner / Applicant
ALDI INC.
6000 NORTH NOAH DR.
SAKONBURG, PA 16056
TEL: (724) 352-9393
CONTACT: BRIAN MCCOY

Architect
HPA, INC.
18831 BARDEEN AVE. SUITE #100
IRVINE, CA 92612
TEL: (949) 863-1770
CONTACT: ALAN SANDOVAL

Applicant's Representative
HPA, INC.
18831 BARDEEN AVE. SUITE #100
IRVINE, CA 92612
TEL: (949) 863-1770
CONTACT: ALAN SANDOVAL

Civil Engineer
HUETT ZOLLARS
1101 S. MILLIKEN - STE.G
ONTARIO, CA 91761
TEL: (909) 390-8400
CONTACT: MAURICE MURAD

SITE LEGEND

- LANDSCAPED AREA
- WQMP AREA
- 28' WIDE FIRE APPARATUS ACCESS ROAD. ROAD TO BE IDENTIFIED WITH PAINTED RED CURBS AND MARKED "FIRE LANE-NO PARKING" PER CITY OF MORENO VALLEY FIRE DEPT.
- AC. PAVING - SEE "C" DWGS. FOR THICKNESS
- CONCRETE PAVING SEE "C" DWGS. FOR THICKNESS
- STANDARD PARKING STALL (9' X 18')
- HANDICAPPED PARKING STALL (9' X 18')
- OFFICE AREA
- NOT APART

Legal Description

ALL OF LOTS 3, 4, 5, 6, 34, 35 AND A PORTION OF LOTS 2 AND 7 BLK. 35 LYING WITHIN MAP NO. 1 OF BEAR VALLEY AND ALEXANDRO DEVELOPMENT COMPANY IN THE COUNTY OF RIVERSIDE, STATE OF CALIF. AS PER MAP RECORDED IN BOOK 11, PG. 10 OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

Zoning

ZONING: EXISTING - BP
PROPOSED - LI

Assessors Parcel Number

APN 488-330-003
APN 488-330-004
APN 488-330-005
APN 488-330-006
APN 488-330-026

UTILITY INFORMATION

TELEPHONE
VERIZON
1890 ORANGE TREE LANE, STE 100
REDLANDS, CA 92374
PHONE: (909) 748-6639
CONTACT: THEA CARLSON

ELECTRIC
MORENO VALLEY UTILITIES
14177 FREDERICK ST.
MORENO VALLEY, CA 92552
PHONE: (951) 413-3480
CONTACT: DARCY RAMIREZ

WATER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBUE ROAD
PERRIS, CA 92571
PHONE: (951) 928-3777
CONTACT: NEW BUSINESS

GAS
SOUTHERN CALIFORNIA GAS CO.
26200 TRUMBUE ROAD SC 8006
ROMOLAND, CA 92380
PHONE: (951) 335-3902
CONTACT: DAVE MULLIGAN

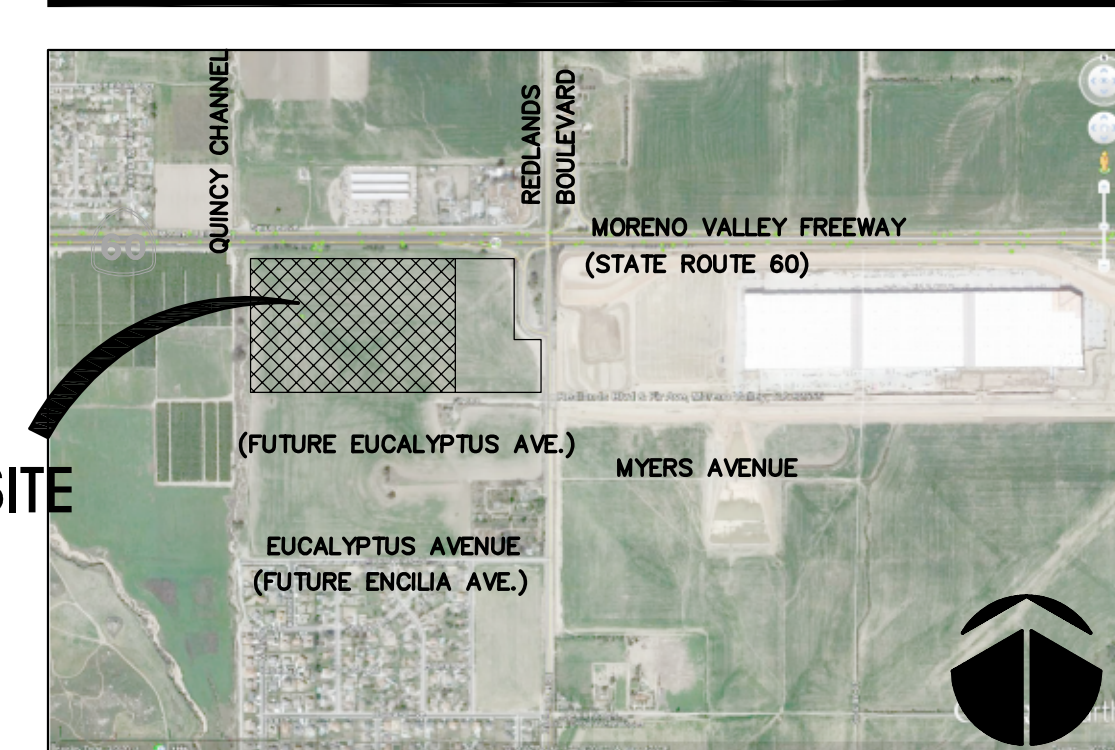
SEWER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBUE ROAD
PERRIS, CA 92571
PHONE: (951) 928-3777
CONTACT: NEW BUSINESS

CABLE - TV
TIME WARNER CABLE
1500 ALTO CENTER DR.
ONTARIO, CA 91761
PHONE: (909) 975-3380
(909) 390-4777
CONTACT: MARK DAUENHAUER

CIVIL LINETYPES

- LEGEND / ABBREVIATIONS**
- DW - PROPOSED DOMESTIC SERVICE
 - PW - PROPOSED FIRE SERVICE
 - W - PROPOSED WATER LINE
 - S - PROPOSED SEWER LINE
 - RIGHT OF WAY/SITE BOUNDARY
 - EXISTING RIGHT OF WAY/SITE BOUNDARY
 - R - PROPOSED RIDGE LINE
 - SD - PROPOSED STORM DRAIN

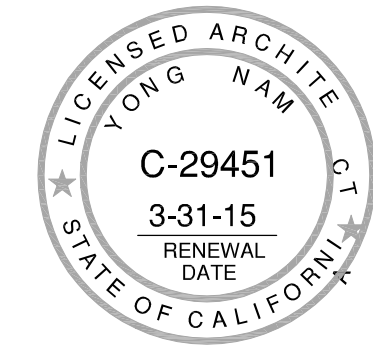
AERIAL MAP



PROJECT SITE

CASE NO. P13-111
OCTOBER 24, 2013
AMENDED PLOT PLAN
CASE NO.: PA08-0097/0098
MARCH 24, 2009

HPA
hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca 92612
tel: 949-863-1770
fax: 949-863-0951
email: hpa@hparchts.com



Contractor:
GRAYCOR
Construction Company Inc.
Graycor Construction Co.
2 Mid America Plz Ste 400
Oak Terrace, IL 60181

Owner:
ALDI
ALDI Inc.
1200 N. Kirk Rd.
Batavia, IL 60510

Project:
ALDI
Distribution Center
Regional Headquarters

Consultants:

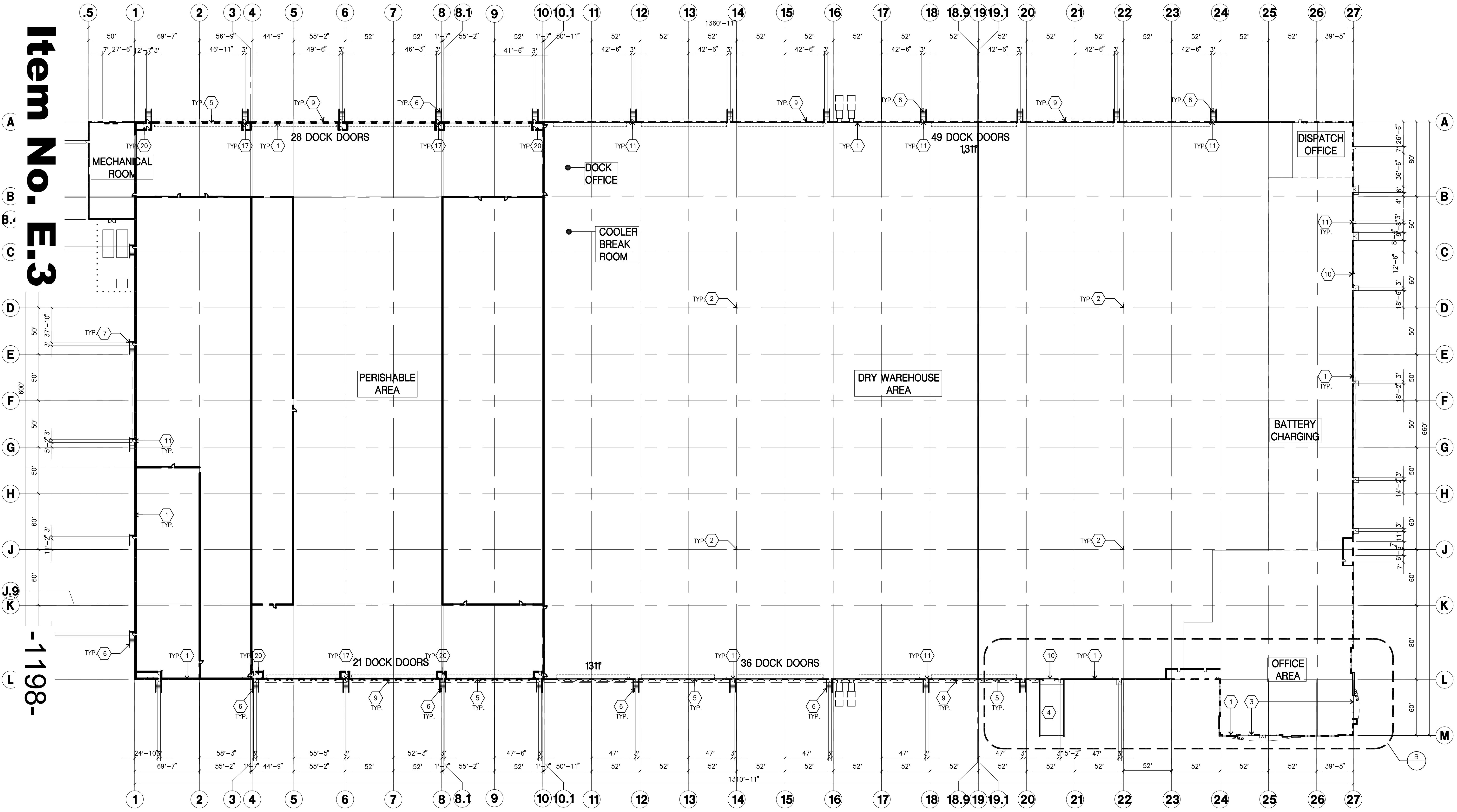
Civil:	Huett Zollars
Structural:	TBD
Mechanical:	TBD
Plumbing:	TBD
Electrical:	TBD
Landscape:	Enviros
Fire Protection:	TBD
Soils Engineer:	TBD

Title: site plan

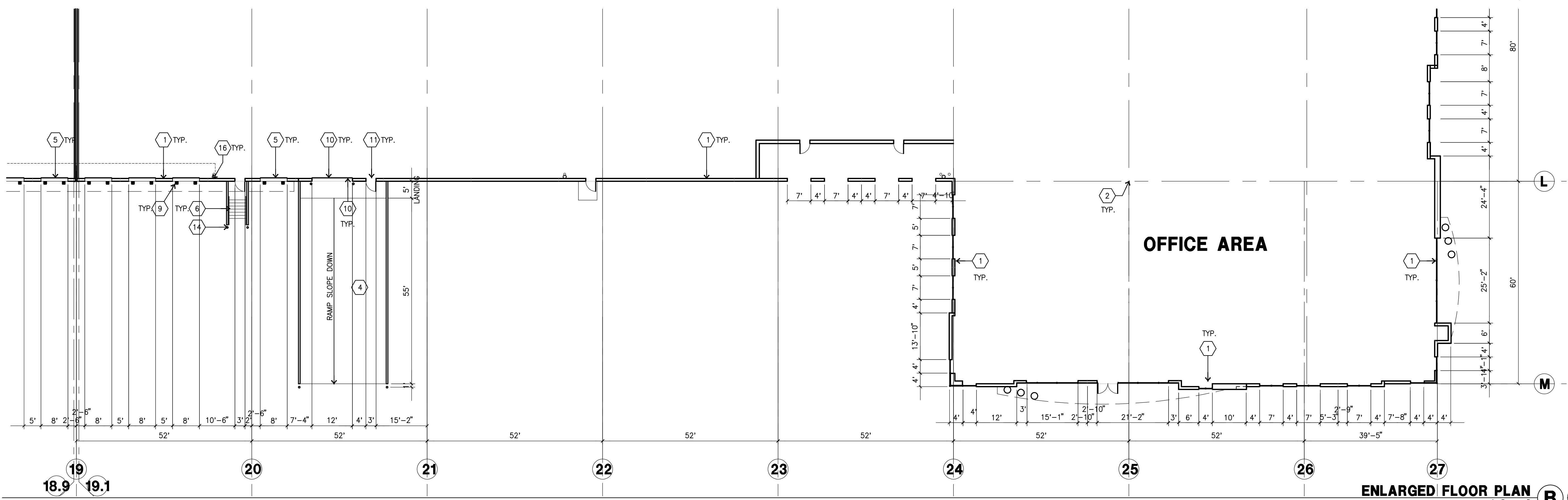
Project Number: 13220
Drawn by: Sandoval
Date: October 23, 2013
Revision:

Sheet: **A1.1**

Item No. E.3



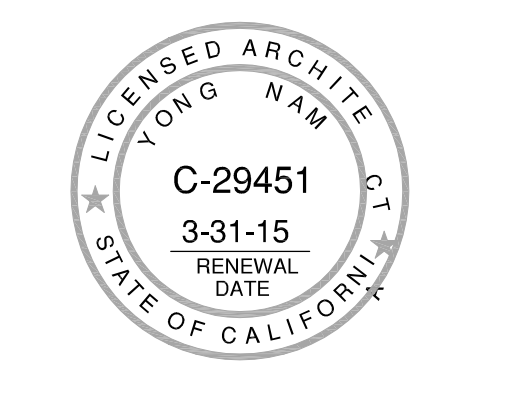
OVERALL FLOOR PLAN A
scale: 1"=50'-0"



ENLARGED FLOOR PLAN B
scale: 1/16"=1'-0"

- KETNOTES - FLOOR PLAN**
- 1 CONCRETE TILT-UP PANEL. SEE "S" DWGS. FOR THICKNESS AND STEEL REQUIREMENTS.
 - 2 STRUCTURAL STEEL COLUMN. SEE "S" DRAWINGS FOR SIZE.
 - 3 TYPICAL STOREFRONT SYSTEM WITH GLAZING. SEE OFFICE BLOW-UP AND ELEVATIONS FOR SIZE, COLOR AND LOCATIONS.
 - 4 CONCRETE RAMP W/ 42" HIGH CONC TILT-UP GUARD WALL OR BUILDING WALL ON BOTH SIDES OF RAMP. SEE "S" DWG FOR DETAIL.
 - 5 8'-0" X 10' TRUCK DOOR, SECTIONAL OTH, STANDARD GRADE. DESIGNED TO RESIST WIND 90 MPH., EXPOSURE "C".
 - 6 EXTERIOR CONCRETE STAIR
 - 7 5'-6"x9'-6"x4" THICK CONCRETE EXTERIOR LANDING PAD TYPICAL AT ALL EXTERIOR MAN DOORS TO LANDSCAPED AREA. FINISH TO BE MEDIUM BLOOM FINISH. SLOPE TO BE 1/4" : 12" MAX. PROVIDE WALK TO HARD SURFACE PER CITY REQUIREMENTS.
 - 8 LOUVERED OPENING FOR VENTILATION.
 - 9 DOCK DOOR BUMPER
 - 10 12" X 14" DRIVE THRU, SECTIONAL OTH, STANDARD GRADE. DESIGNED TO RESIST WIND 90 MPH., EXPOSURE "C".
 - 11 3"x7" HOLLOW METAL EXTERIOR MAN DOOR. DESIGNED TO RESIST WIND 90 MPH., EXPOSURE "C".
 - 12 METAL CANOPY
 - 13 SOFFIT LINE ABOVE
 - 14 ELECTRICAL ROOM
 - 15 EXTERIOR DOWNSPOUT WITH OVERFLOW SCUPPER.
 - 16 INTERIOR DOWNSPOUT
 - 17 FREEZER MAN DOOR.
 - 18 CONCRETE KNOCK-OUT PANEL.
 - 19 APPROXIMATE LOCATION OF ROOF TOP UNIT.
 - 20 FIRE STAND PIPE CLOSET WITH PERSHABLE SPACE.

HPA
hpa, inc.
18831 bardeen avenue - ste. #100
irving, ca 92612
tel: 949-863-1770
fax: 949-863-0951
email: hpa@hparchs.com



Contractor:
GRAYCOR
Construction Company Inc.
Graycor Construction Co.
2 Mid America Plz Ste 400
Oak Terrace, IL 60181

Owner:
ALDI
ALDI Inc.
1200 N. Kirk Rd.
Batavia, IL 60510

Project:
ALDI
Distribution Center
Regional Headquarters

Consultants:

Civil:	Huitt Zollars
Structural:	TBD
Mechanical:	TBD
Plumbing:	TBD
Electrical:	TBD
Landscape:	Enviros
Fire Protection:	TBD
Soils Engineer:	TBD

Title: floor plan

Project Number: 13220
Drawn by: Sandoval
Date: October 23, 2013
Revision:

Sheet:

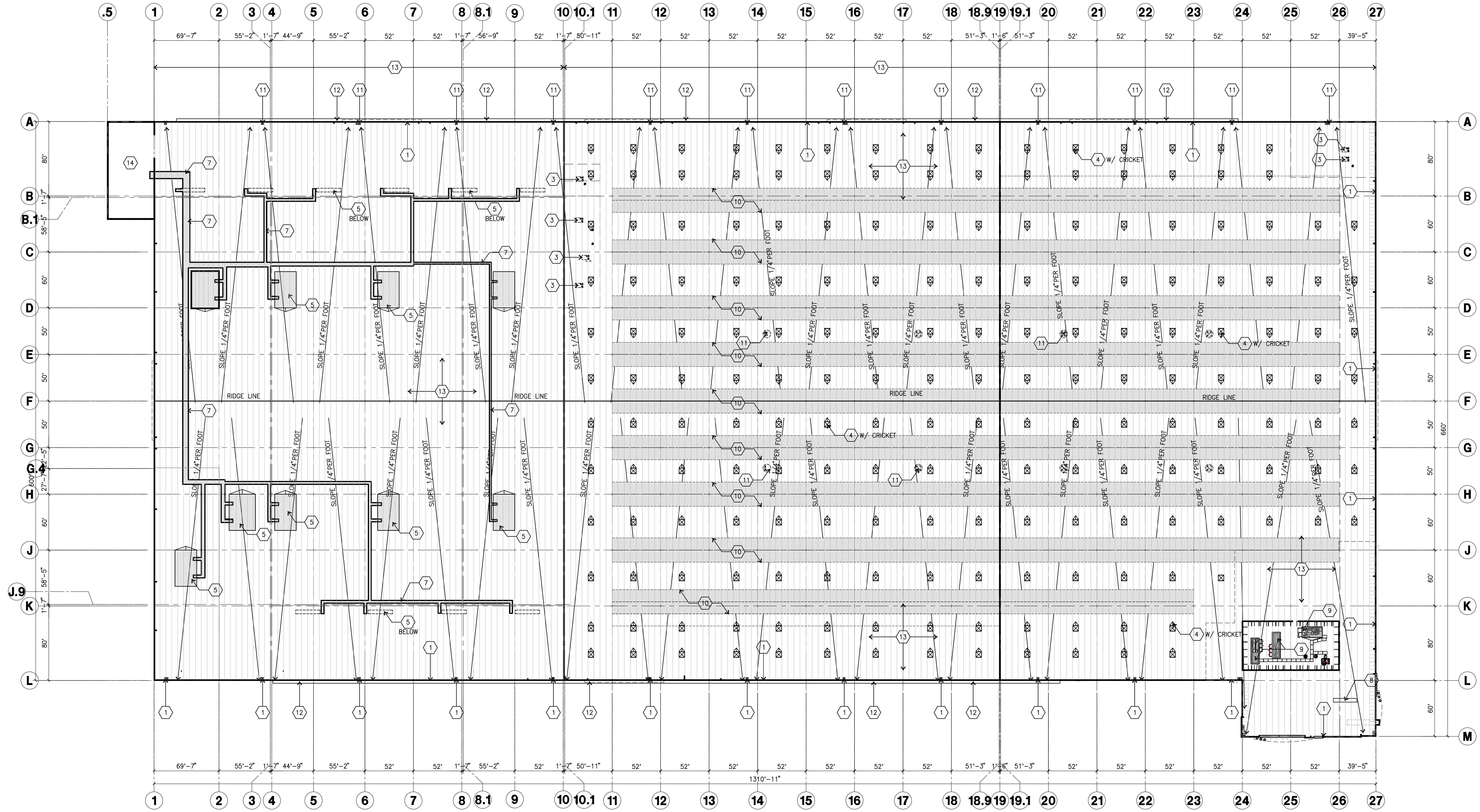
CASE NO. P13-111
OCTOBER 24, 2013
AMENDED PLOT PLAN
CASE NO.: PA08-0097/0098
MARCH 24, 2009

A2.1

THESE DRAWINGS ARE NOT INTENDED FOR BIDDING, SHOP DRAWINGS, OR CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL BIDS MADE FROM THESE DRAWINGS.

-1199-

Item No. E.3



OVERALL ROOF PLAN
scale: 1"=50'-0" **A**

ROOF LEGEND

- 6' x 6' CURB MOUNTED SKYLIGHT
- BUILDING PARAPET LINE
- EXTERIOR METAL DOWNSPOUT W/ OVERFLOW SCUPPER
- INTERIOR ROOF DRAIN W/ OVERFLOW SCUPPER

SKYLIGHT/SMOKE HATCH CALCULATIONS

ROOF AREA ABOVE WAREHOUSE AREA:	459,207
CLEAR HEIGHT	36'
REQUIRED NON VENTED SKYLIGHTS	1.3X
	5,970 S.F.
NUMBER OF REQUIRED SKYLIGHT/SMOKE HATCH	166
NUMBER OF PROVIDED SKYLIGHT/SMOKE HATCH	189
DRAFT CURTAINS NOT REQUIRED PER CFC SECT. 910.3.5	

KEYNOTES - ROOF PLAN

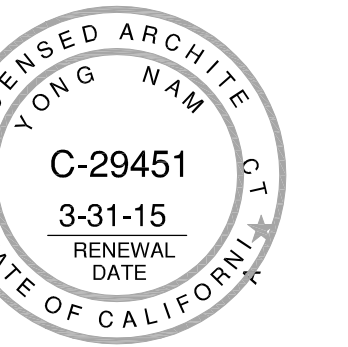
- 1 CONCRETE PARAPET.
- 2 INTERIOR DOWNSPOUT WITH OVERFLOW SCUPPERS.
- 3 APPROXIMATE LOCATION OF MECHANICAL PACKAGE UNITS
- 4 6' x 6' SKYLIGHT / SMOKE HATCH.
- 5 APPROXIMATE LOCATION OF ROOF TOP PENTHOUSE
- 6 ROOF ACCESS HATCH.
- 7 APPROXIMATE LOCATION OF AMMONIA REFRIGERATION PIPING.
- 8 ROOF ADDRESS PAINTED BLACK 4" HIGH W/ 1" WIDE STROKE PER LETTER.
- 9 APPROXIMATE LOCATION OF ROOF TOP MECHANICAL VAV UNITS
- 10 APPROXIMATE LOCATIONS ALLOCATED FOR SOLAR PANELS. SIZE AND PLACEMENT BY OTHERS.
- 11 APPROXIMATE LOCATION OF MECHANICAL VENTILATION
- 12 DOCK CANOPY.
- 13 PROVIDE SINGLE PLY TPO ROOFING OVER INSULATION OVER METAL DECK.
- 14 EVAP CONDENSING UNITS. SET DOWN IN MECHANICAL AREA AND SCREENED BY TILT PANEL WALLS. OPEN TO ABOVE.

GENERAL NOTES - ROOF PLAN

- A. ALL DIMENSIONS ARE TO FACE OF CONCRETE WALL, GRIDLINE, OR FACE OF STUD. (U.N.O.)
- B. VERIFY THAT ALL ROOF AREAS HAVE POSITIVE DRAINAGE (1/4" FT.) PRIOR TO ROOF INSULATION INSTALLATION.
- C. REFER TO "S" DRAWINGS FOR ROOF HEIGHT ELEVATIONS IN REGARDS TO ROOF DRAINAGE.
- D. CONTRACTOR TO VERIFY AND COORDINATE WITH ALL SUBCONTRACTORS, ALL LOCATIONS AND SIZES OF ROOF OPENINGS.
- E. FOR TYP. ROOF PENETRATIONS, CONTRACTOR TO VERIFY ALL LOCATIONS WITH MECHANICAL AND PLUMBING DRAWINGS.
- F. CONTRACTOR TO VERIFY ALL ROOF DRAIN DEPRESSIONS W/ "S" DRAWINGS.
- G. CONTRACTOR TO COORDINATE EXACT SKYLIGHT LOCATION W/ FIRE SPRINKLER AND ROOF FRAMING SUB-CONTRACTORS. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- H. ALL SKYLIGHTS TO BE DESIGNED FOR 105 M.P.H., EXPOSURE "C" W/ STRONGER FRAMES, SUPPORTS AND DOMES. MANUFACTURER TO CONFIRM IN WRITING.
- I. ROOF DRAINS AND OVERFLOW DRAINS TO BE A MIN. 8" DIA. SEE "P" DRAWINGS FOR EXACT SIZE.
- J. NOT USED
- K. PROVIDE SHAPED INSULATION CRICKETS AS REQUIRED FOR PROPER ROOF DRAINAGE OF 1/4" PER FOOT (MIN.).
- L. BUILT-UP ROOFING TO BE DESIGNED FOR 1 105 AND TO BE A U.L. CLASS A ROOF. FLASHING: 6AF TYPE 5MB MOPPED AP SHEET, U.L. TYPE 63 BUR.
- M. ALL ROOFING FASTENERS SHALL MEET ALL CODE AND REGULATION REQUIREMENTS. PROPER REQUIREMENTS ARE IN PROJECTS JURISDICTION AND ALSO, FACTORY MUTUAL (FM) WIND UPLIFT PRESSURE REQUIREMENTS.
- N. ALL SKYLIGHTS TO BE PLACED A MIN. OF 18" FROM INSIDE FACE OF PARAPET.
- O. FIRE PROTECTION SYSTEM CONTRACTOR TO PROVIDE FIRE HOSE STATIONS ON ROOF PER FIRE DEPARTMENT & BUILDING DEPARTMENT'S REQUIREMENT.
- P. ROOF DRAINS, OVERFLOW DRAINS AND RAINWATER PIPING WITHIN THE INTERIOR OF THE BUILDING SHALL BE TESTED IN ACCORDANCE WITH THE PROVISIONS OF THE PLUMBING CODE FOR TESTING DRAIN, WASTE AND VENT SYSTEMS.
- Q. ROOF DRAINS, OVERFLOW PIPING WITHIN THE BUILDINGS SHALL UTILIZE APPROVED DRAINAGE FITTINGS.

CASE NO. P13-111
OCTOBER 24, 2013
AMENDED PLOT PLAN
CASE NO.: PA08-0097/0098
MARCH 24, 2009

HPA
hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca 92612
tel: 949-863-1770
fax: 949-863-0851
email: hpa@hparch.com



Contractor:
GRAYCOR
Construction Company Inc.
Graycor Construction Co.
2 Mid America Plz Ste 400
Oak Terrace, IL 60181

Owner:

ALDI Inc.
1200 N. Kirk Rd.
Batavia, IL 60510

Project:
ALDI
Distribution Center
Regional Headquarters

Consultants:

Civil:	Huitt Zollars
Structural:	TBD
Mechanical:	TBD
Plumbing:	TBD
Electrical:	TBD
Landscape:	Enviros
Fire Protection:	TBD
Soils Engineer:	TBD

Title: overall roof plan

Project Number: 13220
Drawn by: Sandoval
Date: October 23, 2013

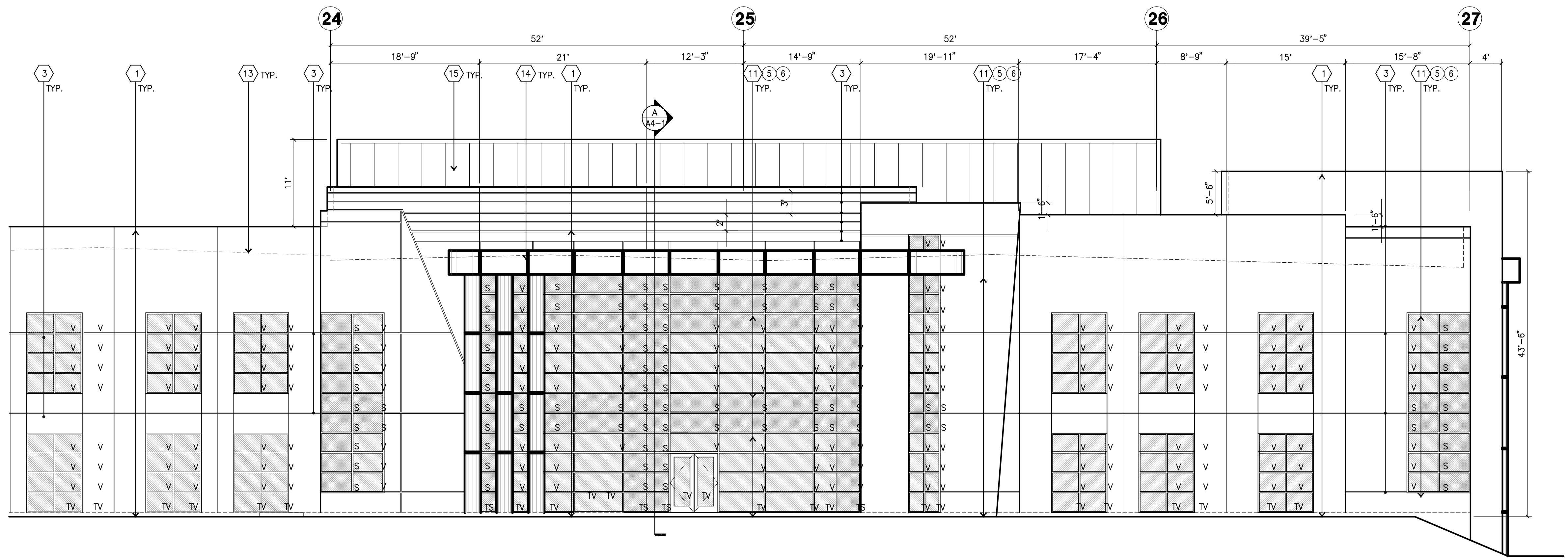
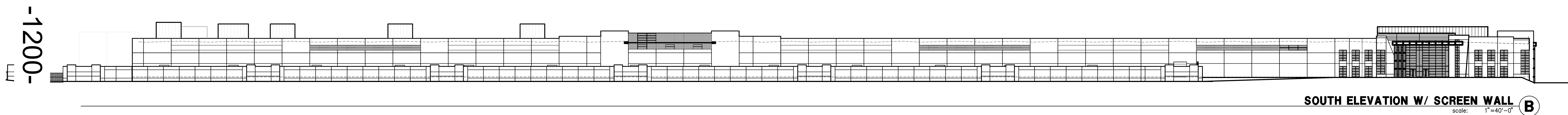
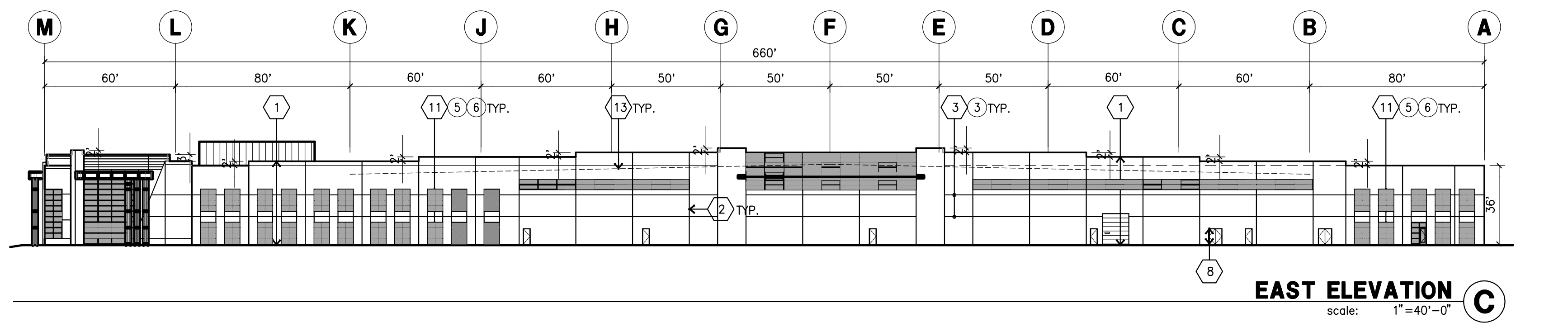
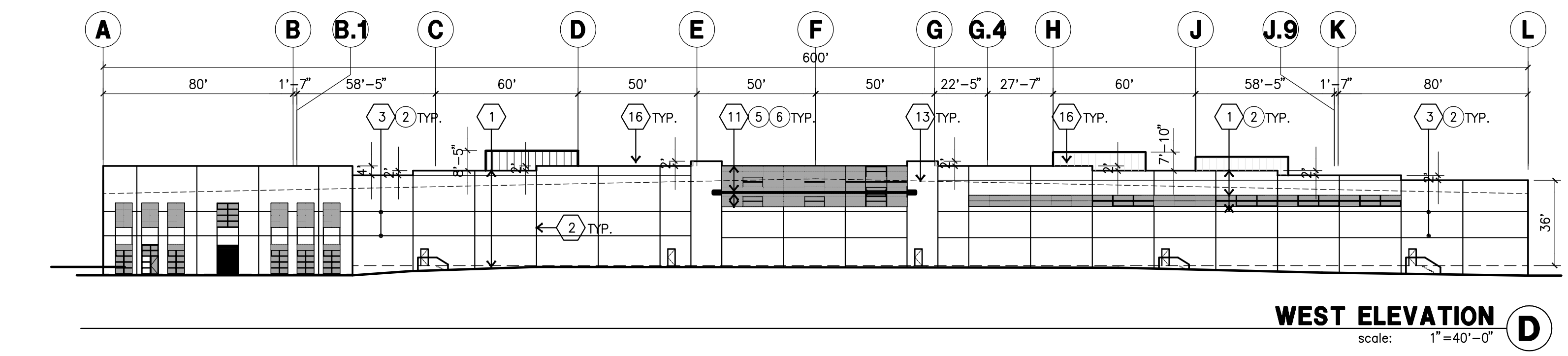
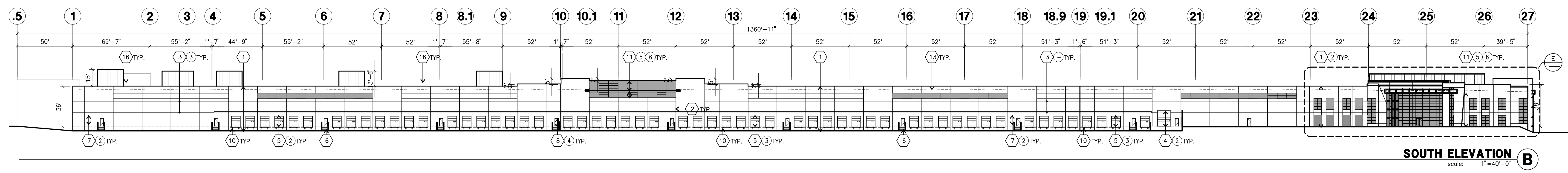
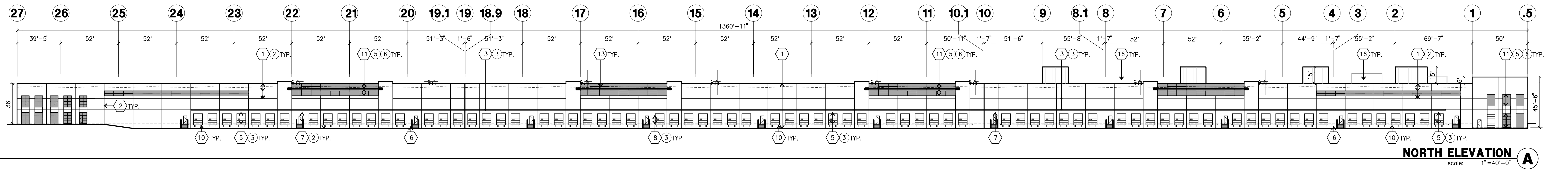
Revision:

Sheet:

A2.2

THESE DRAWINGS ARE NOT INTENDED FOR BIDDING, SHOP DRAWINGS, OR CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL BIDS MADE FROM THESE DRAWINGS.

Item No. E.3



KEYNOTES - ELEVATIONS

- 1 CONCRETE TILT-UP PANEL(PAINTED). FINISH GRADE VARIES. SEE "C" DRAWINGS. WATERPROOF ALL WALLS WHERE GRADE IS HIGHER AND EXPOSED TO THE WEATHER ONE SIDE. WATERPROOFING TO BE PROTECTED WITH PROTECTION BOARD AND A MIN. OF 6" OF GRAVEL. PROVIDE TRENCH DRAIN AT BOTTOM AND DAYLIGHT TO CURB OR TAKE TO STORM DRAIN. NOT REQUIRED AT DOCK HIGH CONDITION OR AT RAMP WALLS.
- 2 PANEL JOINT.
- 3 PANEL REVEAL. ALL REVEALS TO HAVE A MAX. OF 3/8" CHAMFER. REVEAL COLOR TO MATCH ADJACENT BUILDING FIELD COLOR. L.I.N.O.
- 4 OVERHEAD DOOR @ DRIVE THRU. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND. DESIGN TO RESIST 90 MPH WIND EXPOSURE "C".
- 5 OVERHEAD DOOR @ DOCK HIGH. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND. DESIGN TO RESIST 110 MPH WIND EXPOSURE "C".
- 6 CONCRETE STAIR, LANDING AND GUARDRAIL W/ METAL PIPE HANDRAIL. PROVIDE NON SKID NOSING TO MEET ADA REQUIREMENTS. PROVIDE CONTRASTING COLORED 3" WIDE WARNING STRIPE INTERNAL TO CONCRETE AT TOP LANDING AND BOTTOM TREAD PER ADA REQUIREMENTS.
- 7 METAL LOUVER. DESIGN TO RESIST 90 MPH WIND EXPOSURE "C". PAINT TO MATCH BUILDING COLOR.
- 8 HOLLOW METAL DOORS. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER STRIPING ALL AROUND DOOR. PROVIDE FOR RAIN DIVERTER ABOVE DOOR. DESIGN TO RESIST 90 MPH WIND EXPOSURE "C".
- 9 EXTERIOR DOWNSPOUT AND OVERFLOW SCUPPER
- 10 DOCK BUMPER
- 11 ALUMINUM STOREFRONT FRAMING WITH TEMPERED GLAZING AT ALL DOORS. SIDELITES ADJACENT TO DOORS AND GLAZING WITH BOTTOMS LESS THAN 16" ABOVE FINISH FLOOR ELEVATION. DESIGN TO RESIST 90 MPH WIND EXPOSURE "C".
- 12 EXTERIOR LIGHTING FIXTURE
- 13 ROOF LINE
- 14 METAL CANOPY
- 15 METAL EQUIPMENT SCREEN
- 16 REFRIGERATION PENTHOUSE

GENERAL NOTES - ELEVATIONS

- A. ALL PAINT COLOR CHANGES TO OCCUR AT INSIDE CORNERS UNLESS NOTED OTHERWISE.
- B. ALL PAINT FINISHES ARE TO BE FLAT UNLESS NOTED OTHERWISE.
- C. T.O.P. EL = TOP OF PARAPET ELEVATION.
- D. F.F. = FINISH FLOOR ELEVATION.
- E. STOREFRONT CONSTRUCTION: GLASS, METAL ATTACHMENTS AND LINTELS SHALL BE DESIGNED TO RESIST 90 MPH EXPOSURE "C" WINDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.
- F. CONTRACTOR SHALL FULLY PAINT ONE CONCRETE PANEL W/ SELECTED COLORS. ARCHITECT AND OWNER SHALL APPROVE PRIOR TO PAINTING REMAINDER OF BUILDING.
- G. BACK SIDE OF PARAPETS TO HAVE SMOOTH FINISH AND BE PAINTED WITH ELASTOMERIC PAINT.
- H. FOR SPANDREL GLAZING, ALLOW SPACE BEHIND SPANDREL TO BREATHE.
- J. USE ADHESIVE BACK WOOD STRIPS FOR ALL REVEALS.
- K. THE FIRST COAT OF PAINT TO BE ROLLED-ON AND THE SECOND COAT TO BE SPRAYED-ON

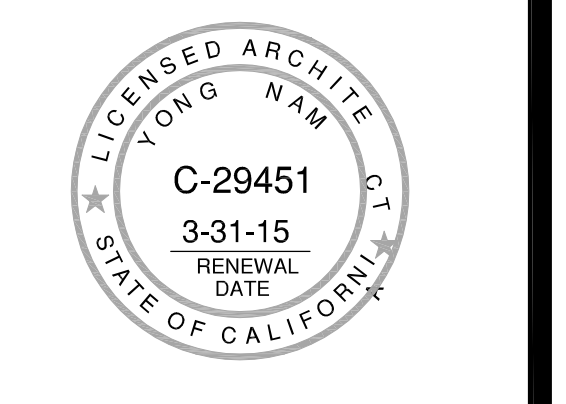
COLOR SCHED. - ELEVATIONS

- 1 CONCRETE TILT-UP PANEL PAINT BRAND: SHERWIN-WILLIAMS SW7529 SAND BEACH
- 2 CONCRETE TILT-UP PANEL PAINT BRAND: SHERWIN-WILLIAMS SW7533 KHAKI SHADE
- 3 CONCRETE TILT-UP PANEL PAINT BRAND: SHERWIN-WILLIAMS SW2827 COLONIAL RIVAL TAN
- 4 CONCRETE TILT-UP PANEL PAINT BRAND: SHERWIN-WILLIAMS SW7550 RESORT TAN
- 5 METAL CANOPY PAINT BRAND: BENJAMIN MOORE 2139 RIVER ROCK
- 6 GLAZING COLOR: PPC SOLAR BRONZE
- 7 MULLIONS PAINT BRAND: BENJAMIN MOORE 2139 RIVER ROCK

GLAZING LEGEND

- S SPANDREL GLASS
- TV TEMPERED VISION GLASS
- V VISION GLASS

HPA
hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca 92612
tel: 949-863-1770
fax: 949-863-0951
email: hpa@hparch.com



Contractor:
GRAYCOR
Construction Company Inc.
Graycor Construction Co.
2 Mid America Plz Ste 400
Oak Terrace, IL 60181

Owner:

ALDI Inc.
1200 N. Kirk Rd.
Batavia, IL 60510

Project:
ALDI
Distribution Center
Regional Headquarters

Consultants:

Civil:	Huitt Zollars
Structural:	TBD
Mechanical:	TBD
Plumbing:	TBD
Electrical:	TBD
Landscape:	Enviroins
Fire Protection:	TBD
Sols Engineer:	TBD

Title: elevation

Project Number: 13220
Drawn by: Sandoval
Date: October 23, 2013
Revision:

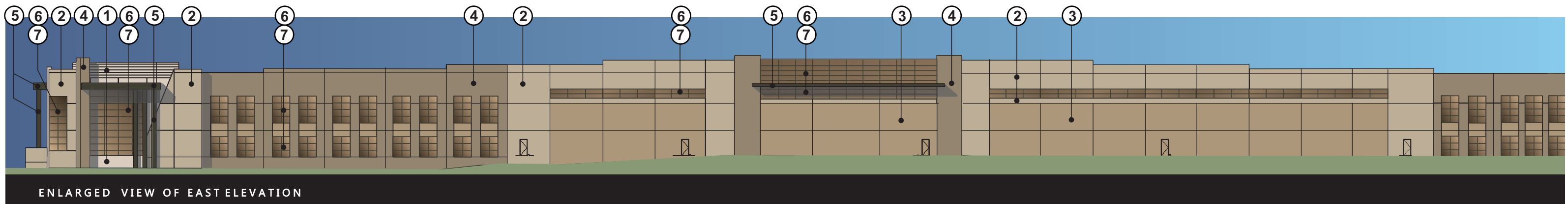
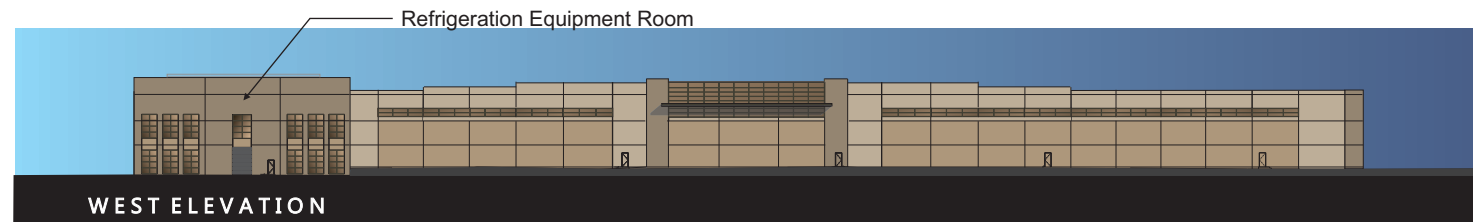
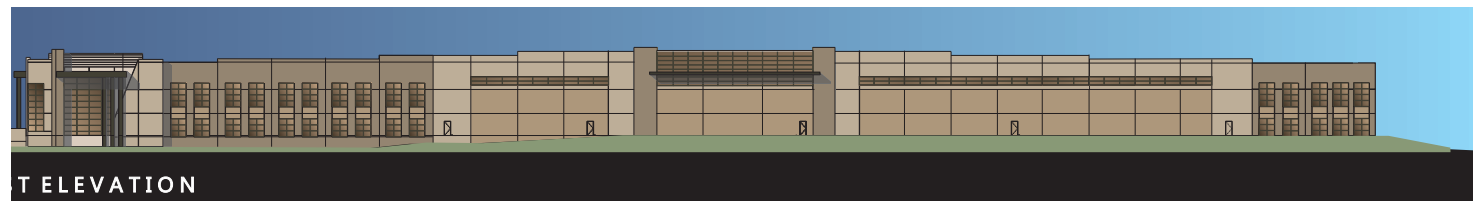
Sheet:

CASE NO. P13-111
OCTOBER 24, 2013
AMENDED PLOT PLAN
CASE NO.: PA08-0097/0098
MARCH 24, 2009

A3.1

THESE DRAWINGS ARE NOT INTENDED FOR BIDDING, SHOP DRAWINGS, OR CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL BIDS MADE FROM THESE DRAWINGS.

Item No. E.3



-1202-

- ①



Sherwin-Williams
SW7529 Sand Beach
- ②



Sherwin-Williams
SW7533 khaki Shade
- ③



Sherwin-Williams
SW2827 Colonial Rivial Tan
- ④



Sherwin-Williams
SW7550 Resort Tan
- ⑤



Benjamin Moore
2139 River Rock
@ METAL CANOPY
- ⑥

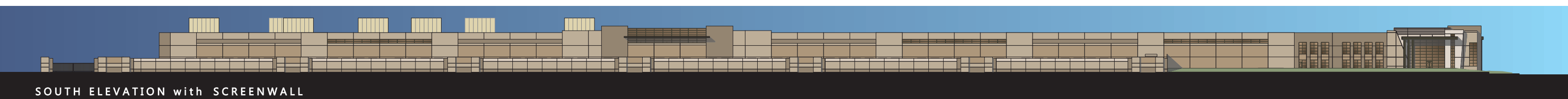
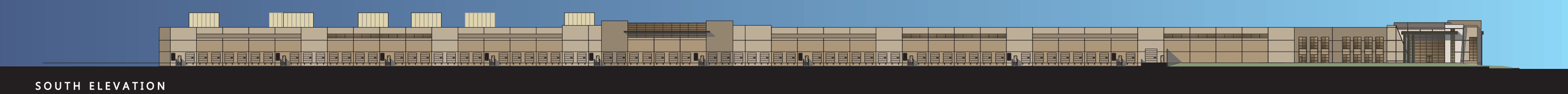


PPG Solar Bronze
GLAZING
- ⑦



Benjamin Moore
2139 River Rock
@ MULLIONS

NOTE: All colors/finish to be reviewed and confirmed by ALDI



WEST RIDGE COMMERCE CENTER

MORENO VALLEY, CA





Item No. E-3



WEST RIDGE COMMERCE CENTER

MORENO VALLEY, CA



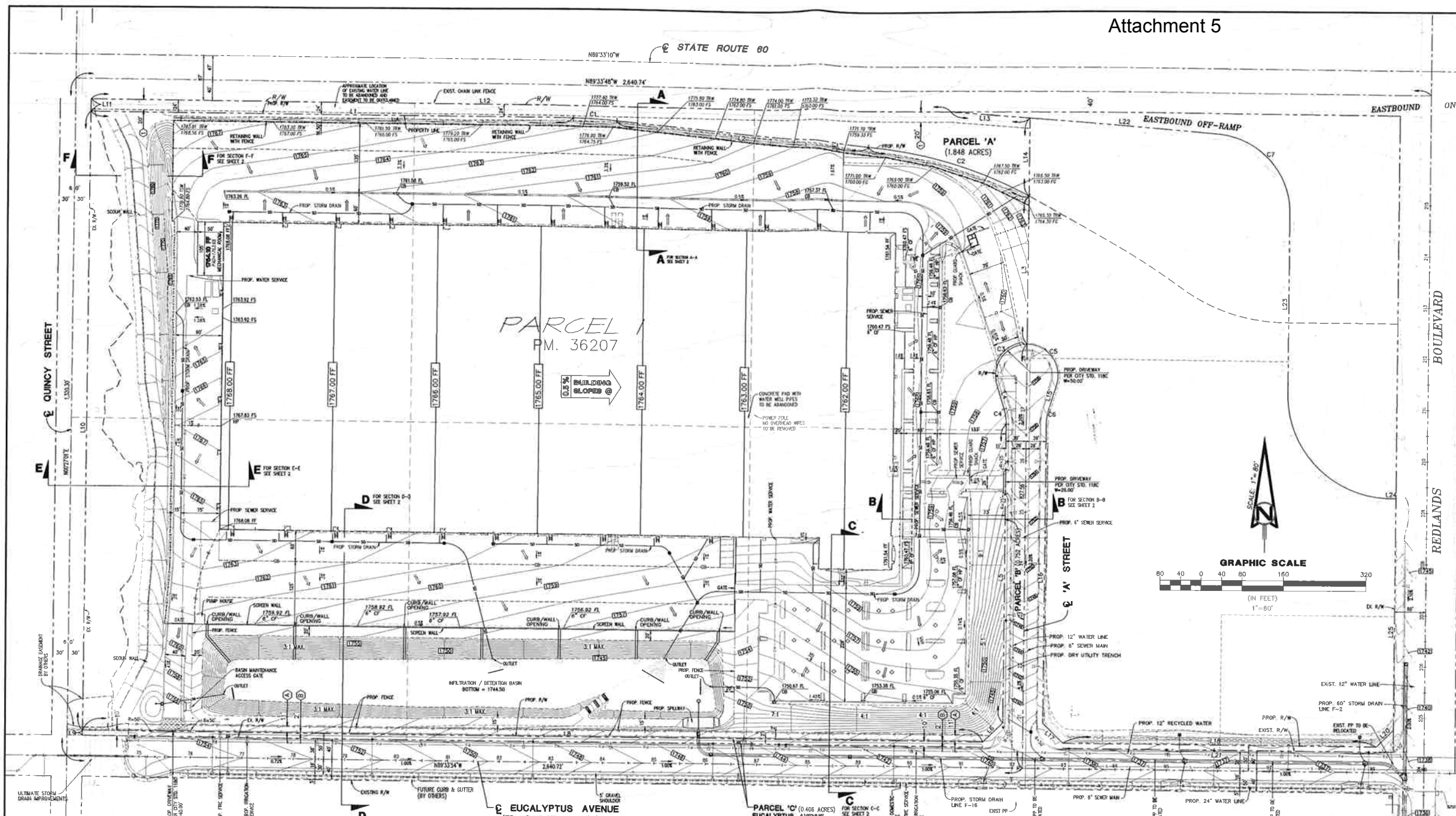
This page intentionally left blank.

UTILITY PROVIDERS

- SEWER / WATER**
 EASTERN MUNICIPAL WATER DISTRICT
 2270 TRUMBLE ROAD
 PERRIS, CA 92571
 (951) 928-3777
- GAS**
 SOUTHERN CALIFORNIA GAS COMPANY
 25200 TRUMBLE RD, SC 8058
 ROMOLAND, CA 92380
 (909) 335-7955
- TELEPHONE**
 VERIZON
 1980 ORANGE TREE LANE, STE 100
 REDLANDS, CA 92374
- ELECTRIC**
 MORENO VALLEY UTILITIES
 14177 FREDERICK ST.
 MORENO VALLEY, CA 92552
 (951) 413-3480
- CABLE - TV**
 TIME WARNER
 1500 AUTO CENTER DR.
 ONTARIO, CA 91761
 (909) 975-3380

LEGEND

- SD PROPOSED STORM DRAIN
- S PROPOSED SEWER
- DW PROPOSED DOMESTIC WATER SERVICE
- W PROPOSED WATER MAIN
- GR PROPOSED GRADE BREAK LINE
- PROPOSED R/W
- RW PROPOSED RECYCLED WATER
- PROPOSED GRATING INLET
- PROPOSED CURB OPENING INLET
- FF PROPOSED FINISH FLOOR ELEVATION
- TP TOP OF PAVEMENT
- TG TOP OF GRATE
- FL FLOWLINE
- CF CURB FACE
- FS FINISHED SURFACE
- CB CATCH BASIN
- PL PROPERTY LINE
- R/W RIGHT-OF-WAY
- CL CENTERLINE
- PROPOSED
- EXIST. EXISTING
- DRWY DRIVEWAY
- STL STREET LIGHT
- PP POWER POLE
- EX. EX. STREET LIGHT
- PROPOSED STREET LIGHT PER CITY STD. NO. 501



-1205-

Item No. E.3

LEGAL DESCRIPTION:

BEING A SUBDIVISION OF PARCEL A OF LOT LINE ADJUSTMENT NO. 983 / AND CERTIFICATE OF COMPLIANCE AS SHOWN ON THE DOCUMENT RECORDED MARCH 26, 2007 AS INSTRUMENT NUMBER 2007-0180759 OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY AND LOTS 3, 4, 5 & 6, BLOCK 35 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS PER MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY.

FLOOD ZONE:

FLOOD ZONE X
 PANEL NO. 05065007800 EFFECTIVE DATE 8/28/2008

AREA:

GROSS AREA = 51.688 ACRES
 NET AREA = 49.089 ACRES
 NUMBER OF PARCELS: 1
 LETTERED PARCELS: 3 (A-C)

TOPO:

SOURCE: DMI (DIGITAL MAPPING INC.)
 DATE: 12-22-2006

PREPARED FOR OWNER/DEVELOPER

ALDI INC.
 6000 NORTH NOAH DRIVE
 SAXONBURG, PA 16056
 CONTACT: BRIAN MCOEE

PREPARED IN THE OFFICE OF
 HUITT-ZOLLARS, INC.

3990 CONCOURS, SUITE 450
 ONTARIO, CALIFORNIA 91764
 PHONE: (909) 941-7799

EASEMENT NOTES

- (1) EASEMENT FOR PIPELINES AND INCIDENTAL PURPOSES IN FAVOR OF EASTERN MUNICIPAL WATER DISTRICT RECORDED SEPTEMBER 19, 1962 AS INSTRUMENT NO. 87866 IN BOOK 3223, PAGE 159, O.R.
- (A) EASEMENT FOR MULTI-USE TRAIL PURPOSES IN FAVOR OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT DEDICATED HEREON.
- (B) EASEMENT FOR PEDESTRIAN ACCESS AND SIDEWALK PURPOSES IN FAVOR OF THE CITY OF MORENO VALLEY DEDICATED HEREON.

EARTHWORK VOLUMES		
	CUT (CY)	FILL (CY)
RAW	277,041	110,578

* ALL EARTHWORK VOLUMES SHOWN HERE ARE RAW AND SHRINKAGE AND SUBSIDENCE ANALYSIS ARE NOT APPLIED. ACTUAL NET IMPORT WILL BE SHOWN ON THE ROUGH GRADING PLAN

COURSE DATA

LINE	BEARING	DISTANCE
L1	N89°33'48"W	9.38 29'
L2	N84°43'14"W	486.11'
L3	N00°27'03"E	288.25'
L4	N18°45'28"W	50.00'
L5	N00°27'03"E	583.19'
L6	N46°39'41"E	33.37'
L8	N88°53'54"W	1752.47'
L9	N00°27'01"E	10.00'
L10	N00°27'01"E	1206.30'
L11	N00°27'01"E	24.90'
L12	N89°33'48"W	16.76 63'
L13	N85°11'25"W	154.18'
L14	N00°27'03"E	151.68'
L15	N17°39'34"E	50.00'
L16	N00°27'03"E	583.15'
L17	N45°46'35"W	54.46'
L18	N89°33'54"W	609.35'
L20	N45°26'35"E	48.86'
L22	N85°11'25"W	368.93'
L23	N00°25'44"E	353.99'
L24	N89°33'25"W	11.90'
L25	N00°27'05"E	495.23'

CURVE DATA

CURVE	DELTA	R	L	T
C1	0.00°	1000.00'	84.52'	42.29'
C2	23°42'44"	796.00'	329.43'	167.11'
C3	107°12'31"	61.00'	114.14'	82.75'
C4	17°12'31"	100.00'	30.03'	15.13'
C5	107°12'31"	61.00'	114.14'	82.75'
C6	17°12'31"	100.00'	30.03'	15.13'
C7	85°37'09"	152.00'	227.14'	140.80'
C8	89°59'09"	200.00'	314.11'	199.95'



REV	DESCRIPTION	DATE

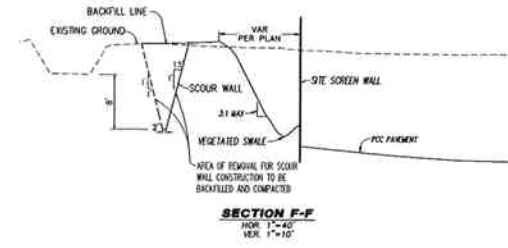
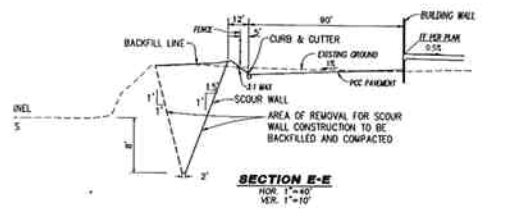
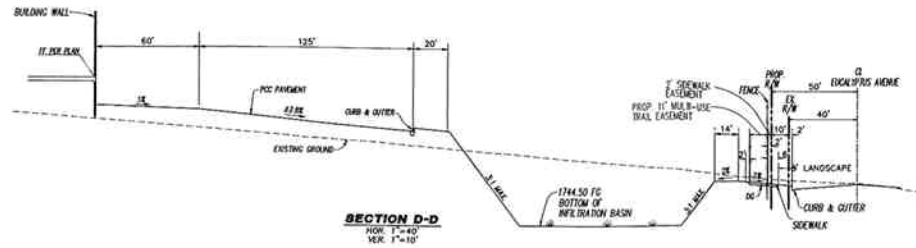
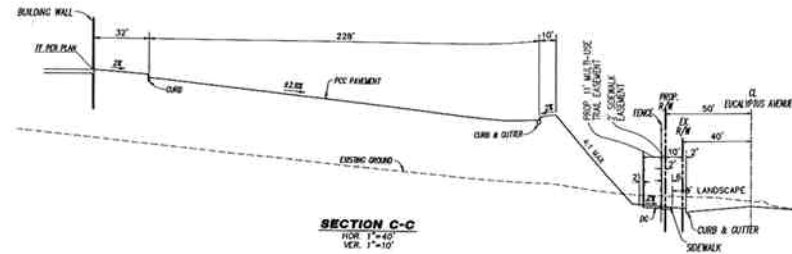
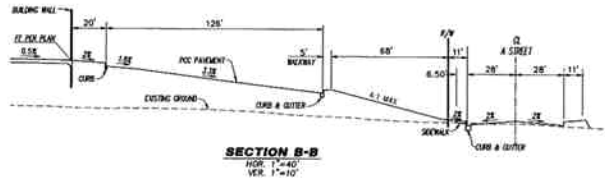
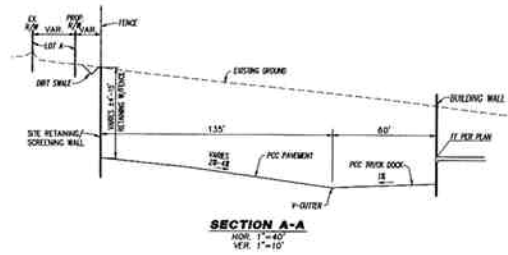
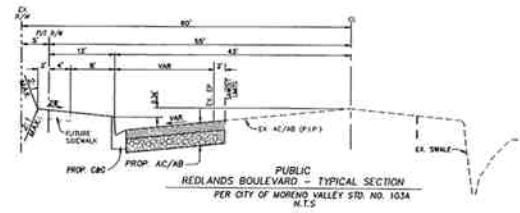
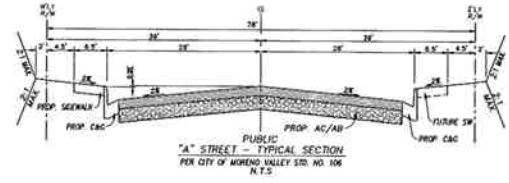
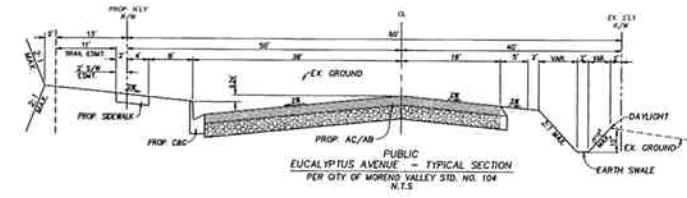
PRELIMINARY GRADING & UTILITY PLAN
 FOR
ALDI DISTRIBUTION WAREHOUSE
 REDLANDS BOULEVARD & EUCALYPTUS AVENUE
 CITY OF MORENO VALLEY

HUITT-ZOLLARS
 Huitt-Zollars, Inc. Ontario
 3990 CONCOURS • SUITE 450 • ONTARIO, CALIFORNIA 91764
 PHONE: (909) 941-7799 • FAX: (909) 941-7799

DESIGNED BY: M.H.M.
 DRAWN BY: H-Z STAFF
 CHECKED BY: M.H.M.
 FILED BY: M.H.M.

APPROVED BY: MAURICE H. MURAD
 DATE: 3/3/14
 SHEET: 6-30-14
 SHEET: 1 OF 2
 SHEETS: 2

H:\Projects\132324\Map\132324-0000000000.dwg, Layer: 01, Oct 22 2013 9:38am



REV	DESCRIPTION	DATE

PRELIMINARY GRADING & UTILITY PLAN
 FOR
ALDI DISTRIBUTION WAREHOUSE
 REDLANDS BOULEVARD & EUCALYPTUS AVENUE
 CITY OF MORENO VALLEY

HUITT-ZOLIARS
 Huitt-Zoliars, Inc. Ontario
 350 SANDOZ RD. SUITE 200 • GARDEN DALHOUSIE PARK
 BRANTFORD, ONT. N9Y 4T8 • FAX (519) 633-7788

DESIGNED BY: M.H.M.
 DRAWN BY: H-Z STAFF
 CHECKED BY: M.H.M.
 APPROVED BY: MAURICE H. MURAO
 SHEET 2 OF 2
 SHEETS
 33366 6-30-14

CITY CASE NO. PA08-0097

HUITT-ZOLIARS, INC. 10150 BURNHAMTHORPE RD. UNIT 101 MISSISSAUGA, ONT. L4X 1L3

Johnson & Sedlack

ATTORNEYS at LAW

Raymond W. Johnson, Esq. AICP
 Carl T. Sedlack, Esq. Retired
 Abigail A. Smith, Esq.
 Kimberly Foy, Esq.

26785 Camino Seco, Temecula, CA 92590

E-mail: EsqAICP@WildBlue.net

Abby.JSLaw@gmail.com
 Kim.JSLaw@gmail.com
 Telephone: 951-506-9925
 Facsimile: 951-506-9725

November 20, 2013

Jeff Bradshaw
 Associate Planner
 Moreno Valley
 Community & Economic Development Department
 Planning Division
 14177 Frederick St.
 Moreno Valley, CA 92552
 jeffreyb@moval.org

VIA US MAIL AND EMAIL

RE: Amended Plot Plan for the Project Orion Distribution Center (ALDI Foods) and Addendum to West Ridge Commerce Center EIR

Dear Mr. Bradshaw,

I have reviewed the Addendum to the West Ridge Commerce Center EIR, and submit the following comments on behalf of Sierra Club and Residents for a Livable Moreno Valley.

The Project Orion Distribution Center increases the proportion of the warehouse to be used for office uses from 14,000 square feet to 50,000 square feet within the 52 acre site; and would install of refrigeration across 263,800 sq. ft., which would substantially increase GHG emissions from stationary sources.

For example, GHGs from Natural Gas and Electricity Energy would increase, Natural Gas from 148.53 CO₂e/yr to 797.14 CO₂e/yr, and Electricity Energy from 741.71 CO₂e/yr to 3,644.71 CO₂e/yr.

New or newly feasible mitigation measures are available which could reduce the impacts from these additional stationary emissions. For example, the incorporation of additional solar paneling for the Project would reduce these additional stationary source emissions. Alternatively, require that the project purchase only green/ renewable power from the electric company.

Sierra Club and Residents also note that a settlement agreement was entered into with respect to the West Ridge Commerce Center project on June 20, 2012 which would be applicable to this Aldi Project Orion as well. I do not see that the Aldo Project Orion design incorporates the requirements of that settlement agreement, attached hereto as Attachment 1.

November 20, 2013

Page 2

Thank you for your consideration of these brief comments.

Sincerely,

A handwritten signature in black ink, appearing to read "Raymond W. Johnson", with a long horizontal flourish extending to the right.

Raymond W. Johnson
JOHNSON & SEDLACK

November 22, 2013

Jeff Bradshaw
Associate Planner
Moreno Valley Planning Division
14177 Frederick St.
Moreno Valley, CA 92552
jeffreyb@moval.org

Sent Via Email

RE: Project Orion Addendum to the West Ridge Commerce Center Project

Dear Mr. Bradshaw,

I would like to thank you for keeping me informed of this project. The Project Orion site plan makes significant changes to the original West Ridge Commerce Center project. Although they may not be considered significant environmental changes they significantly alter what the public and the Planning Commission initial commented on and approved. Utilizing the Memorandum of Understanding to forgo what would most likely have required reconsideration by the Planning Commission fails to keep with the City's new commitment to cooperation and transparency especially as it related to development.

The Project Orion plan presents significant changes to the site layout, access, retention basins, building focal points, parking locations and configurations, office space, and intensity of use. The revised warehouse is 12% smaller while the office area is 357% larger indicating a greater need for employees and subsequent parking. Consolidation of all parking and building focal points to the southwest corner of the building diminishes the enhanced building elevation on the southwest corner. The proposed installation of several roof mounted refrigeration units on the building now necessities 15 foot tall mechanical screen walls or penthouses that will be larger than most homes and will be fully visible from almost all locations along public rights-of-way. The site also has reconfigured the access points which now created a much greater retention basin between the on-site improvements and the street frontage. The extent of these modifications should be made available to the public and the Planning Commission for reconsideration and possible modification to address the significant design changes.

In reviewing the Project Orion Addendum there are several items of concern because of the City's past practices, the deferment of improvements, writing off of mitigation with the Statement of Overriding Consideration, and what appears to the limited desire to address modest impacts to the community in a timely fashion. The items below are of concern and should be addressed.

1. The City's Trails Plan shows that the pedestrian trail should be install along the north side of Fir adjacent to Project Orion. The City should be insistent that this community amenity be installed at the time of project development and not deferred as was done with the Sketchers' project. Deferment means the City will have to take it upon itself to install this trail at a later date and at a higher cost for construction.

2. Most of the traffic impacts addressed in the Mitigation Measure will not be addressed or made by opening day of the project but instead deferred because of the option to pay TUMF, DIF, and fair share fees to satisfy impacts. However, there is no recognized timeline for most of the required MM because of development uncertainties and full funding abilities. Therefore, consideration must be taken to offset the immediate impacts that will be associated with both construction activity and occupancy of the warehouse because all traffic will take access from Redlands Boulevard and SR-60. In the case of SR-60 improvements should be made that will ease traffic congestion exiting the eastbound lanes and signalization of the westbound intersection. The eastbound off ramp should have both left and right turn lanes and the westbound on/off ramp should be signalized with full turning movement lanes to keep traffic moving on Redlands Boulevard.
3. The analysis of the Project Orion Addendum seems to incorrectly address the environmental impacts related to air and Green House Gas emissions based on the following that should be redressed in their report.
 - a. Parking numbers and the stated number of employees indicates that there would be a greater number of vehicle trips than stated. The traffic report needs to correctly address this issue.
 - b. The Green House Gas emissions mentioned in the report do not appear to address the high energy demands of Project Orion related to the addition of large refrigeration cold storage area which comprises 263,800 square feet.
 - c. The overall numbers in the emissions summaries do not seem to validate the differences between the original conceptual use of the West Ridge project and the known parameters of Aldi with a greater number of employees than projected for with speculative development. Additionally, the Aldi operation will include a significant number of refrigeration trucks that will no doubt idle for an indefinite time while waiting to connect to a loading dock.
4. With the new configuration of the enlarged retention basin, consideration should be given to the necessity for fencing in this area. As proposed, the 8-foot tall wrought iron fence will appear as a cage around a significant landscape area thus taking away from the aesthetic character of the project.
5. The City typically has required that roof mounted equipment be screen and the addition of refrigeration units should screen also. Adding screen walls or a penthouse structure only adds to the aesthetic lose to the community. These units should be ground mounts to avoid the visual blight they bring to the building.
6. As a concerned resident of Moreno Valley and one that sees the City's fanfare over nationally recognized tenants, I cannot help but wonder why we do not request or insist that greater design emphasis be placed on creating significant entry statement at every building entry point. I would have thought that the company itself would have demanded this considering this is their headquarters as they make their way into the Southern California market. Please press for something more to signify value this project should have to the city.

In conclusion, the changes proposed are no doubt significant and should have been fully vetted in public and given their due consideration before the community and the Planning Commission. It is my sincere hope that full consideration of my comment will be taken to heart because this community deserves more.

Sincerely,

Thomas Thornsley



Memorandum

To: Jeff Bradshaw
City of Moreno Valley

Date: November 25, 2013

From: Ross S. Geller

Re: Response to November 20, 2013 Letter from Johnson & Sedlack

The commentor correctly notes that the Project Orion Distribution Center (Project Orion) Addendum to the Certified Westridge Commerce Center EIR (EIR Addendum) incorporates a refrigeration component for cold storage; but then incorrectly infers that greenhouse gas (GHG) emissions impacts would somehow be increased under Project Orion when compared to GHG emissions impacts considered and addressed in the Certified Westridge Commerce Center EIR (Certified EIR, Certified EIR project). Continuing, the commentor incorrectly suggests that new and additional GHG emissions mitigation measures are required for Project Orion. As discussed below, Project Orion would actually yield a net reduction in GHG emissions when compared to the Certified EIR project, and would require no new or additional GHG emissions mitigation.

Aggregate GHG Emissions Reduced Under Project Orion

As noted by the commentor, the inclusion of refrigerated storage at the Project Orion facility would increase the demand for electrical usage and natural gas (stationary GHG emissions sources) when compared to the project that was assessed in the 2011 Certified EIR. What is pointedly *not* noted by the commentor is that Project Orion would also result in a substantial reduction in mobile source GHG emissions when compared to

emissions considered and evaluated in the Certified EIR. In fact, while electrical usage and natural gas would account for an increase of 3551.61 metric tons CO₂ equivalent (MTCO₂e) under Project Orion, mobile source emissions would be reduced by 11,070.09 MTCO₂e, yielding a net reduction in GHG emissions of 7,518.48 MTCO₂e when considering these two emissions source categories. When considering all GHG emissions sources, GHG emissions in aggregate would be reduced by 7834.83 MTCO₂e under Project Orion when compared to GHG emissions generated by the Certified EIR project. This dramatic reduction in GHG emissions under Project Orion would further diminish the previously identified “less-than-significant” GHG impacts substantiated in the Certified EIR. The overall comparative reductions in GHG emissions were presented at Table 5 of the Air Quality Study (Appendix C of the EIR Addendum). For ease of reference, this Table is presented again as an attachment to this memorandum.

The significant reduction in mobile source emissions reflected in the EIR Addendum is primarily due to the anticipated schedule and operation of the Project Orion. That is, at the time that the Certified EIR was prepared, the traffic analysis (and air and noise impact analyses) relied on standardized distribution warehouse trip generation rates and conservative vehicle mix assumptions reflected in *National Association for Industrial and Office Parks (NAIOP) - City of Moreno Valley Hybrid Rates*, September 14, 2007; and *City of Fontana Truck Trip Generation Study for LU030*, respectively. This methodology was employed because no specific tenant had been identified for the Certified EIR project at the time the Certified EIR was prepared. In essence, by employing these standardized trip generation rates and vehicle mix assumptions, rather than tenant-specific information, the Certified EIR analyses assured that potential impacts reflecting the widest array of possible warehouse tenants were evaluated. When a specific user for the Certified EIR project was identified (Project Orion), the operational aspects of the facility were refined accordingly to reflect tenant-specific vehicle trip generation rates and vehicle composition. Detailed traffic analysis for Project Orion is presented in the Traffic Impact Analysis (Appendix B of the EIR Addendum). Comparative vehicle composition characteristics of Project Orion and the Certified EIR project, and resulting GHG emissions impacts are summarized below.

Project Orion would be served by 1,000 total vehicles (400 passenger and 600 trucks). In comparison, the Certified EIR analysis modeled 1,585 vehicles (729 passenger and 856 trucks). The difference is an approximate 37 percent reduction in total vehicles, resulting from Project Orion, as compared to vehicles analyzed in the Certified EIR modeling. As shown in the aforementioned Table, this reduction is consistent with the modeled mobile source reductions in MTCO_{2e} of 39% (16,787.99 MTCO_{2e} vs. 27,858.08 MTCO_{2e}, Project Orion and Certified EIR project, respectively.)

Also contributing to comparative reductions in mobile source GHG emissions is the recently developed California Emissions Estimator Model (CalEEMod 2013) prescribed for use by the South Coast Air Quality Management District, and employed in the EIR Addendum GHG analysis. In contrast, the Certified EIR relied on the Urban Emissions (URBEMIS) 2007 modeling protocols. URBEMIS 2007 was the SCAQMD emissions modeling protocol in effect when the Certified EIR was prepared (2009 and 2010). The newly enacted CalEEMod 2013 protocols serve to reconcile some of the URBEMIS 2007 limitations by acknowledging contemporary enhanced vehicle emission controls; and more accurately representing natural turnover of older truck fleet vehicles as dictated by existing state regulations and federal Clean Air mandates. In total, these refinements under CalEEMod 2013 (and absent under URBEMIS 2007) recognize downward-trending vehicular source emissions resulting from improved emissions control technologies, and imposition of increasingly stringent air pollution control regulatory and policy actions.

When compared to the Certified EIR analyses, GHG emissions inventories reflected in the EIR Addendum also changed because the Certified EIR URBEMIS 2007 modeling protocols do not directly calculate electrical demand GHG emissions. Rather, GHG emissions estimates from electrical usage as evaluated in the Certified EIR were necessarily calculated outside of the URBEMIS 2007 Model by employing likely maximum electrical demand assumptions, and then added back to the base GHG emissions results. In contrast, CalEEMod 2013 protocols directly and more accurately calculate use-specific electrical demand GHG emissions.

No New or Additional GHG Emissions Mitigation Required Under Project Orion

The commentor suggests that new or newly feasible mitigation measures are available to reduce GHG impacts. The commentor does not, however, provide any specific mitigation suggestions, or any indication of the efficacy or applicability of these undefined measures.

Notwithstanding the commentor's statements, GHG emissions impacts were previously substantiated to be less-than-significant in the Certified EIR (Section 4.3 Air Quality, Findings and Recommendations, pg. 4.3-93 and summarized in Table 1.10-1, Summary of Environmental Impacts and Mitigation Measures, pg. 1-59). These already less-than-significant impacts would be further reduced under Project Orion as substantiated in the EIR Addendum. Project Orion GHG emissions impacts would also therefore be less-than-significant. CEQA states that no mitigation (new or otherwise) is necessary for effects not found to be significant (CEQA Guidelines §15126.4, subd. (a) (3)). Accordingly, no new or additional GHG emissions impacts mitigation is required for Project Orion, and none is proposed.

Based on the above, the analysis and findings as presented in EIR Addendum are correct and accurate and no changes are recommended.

TABLE 5
GHG EMISSIONS SUMMARY (metric tons CO₂e / year)
2010 Westridge Commerce Center EIR
vs. Aldi Distribution Center Warehouse

2010 Westridge Commerce Center EIR				
Emission Source	CO₂	CH₄	N₂O	CO₂e
Annual construction related emissions amortized over 30 years	174.16	0.0104	0.522	338.32
Natural Gas	141.10	0.02	0.022	148.53
Landscaping	0.51	--	--	0.51
Mobile Sources	27,724.82	0.35	0.41	27,858.08
Electricity Energy	732.09	0.008	0.03	741.71
Solid Waste Generation	--	22.60	--	474.67
Water Usage	39.63	0.002	0.0005	39.81
Refrigerant Leakage	--	--	--	401.75
Subtotal Transportation Sources				27,858.08
Subtotal Non-Transportation Sources				2,145.31
Total CO₂e				30,003.39
Aldi Distribution Center Warehouse				
Emission Source	CO₂	CH₄	N₂O	CO₂e
Annual construction related emissions amortized over 30 years	174.16	0.0104	0.522	338.32
Natural Gas	792.32	0.02	0.02	797.14
Landscaping	--	--	--	--
Mobile Sources	16,783.54	0.21	--	16,787.99
Electricity Energy	3,360.50	0.17	0.03	3,644.71
Solid Waste Generation	152.73	9.03	--	229.47
Water Usage	23.41	0.15	3.81e-3	27.83
Refrigerant Leakage	--	--	--	343.10
Subtotal Transportation Sources				16,787.99
Subtotal Non-Transportation Sources				5,380.57
Total CO₂e				22,168.56
Variance Total CO₂e				-7,834.83



November 22, 2013

Henry R. Stiepel
Direct Dial No.
(714) 384-4303
Email Address
hstiepel@gdsrlaw.com

VIA EMAIL (jeffreyb@moval.org) AND FEDERAL EXPRESS

Mr. Jeff Bradshaw
Associate Planner
Moreno Valley Community & Economic
Development Department
Planning Division
14177 Frederick Street
Moreno Valley CA 92552

Re: Aldi Regional Distribution Center

Dear Mr. Bradshaw:

This firm is real estate counsel to Aldi, Inc. This letter will confirm that Aldi, through its affiliate, AI California LLC ("AI"), is under contract with Ridge Rancho Belago, LLC ("Ridge") to purchase the site for the Aldi Regional Distribution Center. We received a copy of the November 20, 2013 letter to you from Raymond Johnson of Johnson & Sedlack. Please note that under the express terms of the purchase and sale agreement between AI and Ridge, to the extent obligations arise under the June 20, 2012 settlement agreement mentioned in Mr. Johnson's letter after the property is purchased, AI will be responsible.

Please let me know if you have any questions or concerns.

Very truly yours,

Henry R. Stiepel

cc: Mr. Brian McGee via email
Doug Evertz, Esq. via email

{10392685.1}

3200 BRISTOL STREET, SUITE 850, COSTA MESA, CALIFORNIA 92626-1808

Tel: (714) 384-4300 Fax: (714) 384-4320

CITY COUNCIL
 MORENO VALLEY
 RECEIVED

13 DEC -5 PM 4: 12

LEIBOLD McCLENDON & MANN
 A PROFESSIONAL CORPORATION

23422 MILL CREEK DRIVE, SUITE 105
 LAGUNA HILLS, CALIFORNIA 92653
 (949) 457-6300

FAX: (949) 457-6305

JOHN G. McCLENDON
 john@CEQA.com

December 5, 2013

HAND DELIVERED

City of Moreno Valley Planning Commission
 % Community Development Director
 Moreno Valley City Hall
 14177 Frederick St.
 Moreno Valley, CA 92553

Re: Appeal to City of Moreno Valley Planning Commission [Muni Code § 9.02.240]
[Aldi Foods regional headquarters & distribution center; EIR Addendum for same]

Honorable Chairman and Members of the Planning Commission:

In accordance with Section 9.02.240 of the City of Moreno's Valley *Municipal Code*, I am appealing the Administrative Decision, made on or about November 22, 2013, to approve an Amended Plot Plan and EIR Addendum for the above-referenced project (the "Project"). I am filing this appeal on behalf of our clients who are citizens of the City of Moreno Valley and who oppose the administrative approval of this Project in violation of the California Environmental Quality Act (Pub. Resources Code §§ 21000 *et seq.*: "CEQA") and the State Guidelines for Implementation of CEQA (14 Cal. Code Regs. §§ 15000 *et seq.*) as well as other California laws.

In accordance with Subdivision B of Section 9.02.240, the specific reasons for this appeal are that by preparing an EIR Addendum for the Project the City recognizes that it is a discretionary project subject to CEQA; however, due to the unique nature of this Project and its environmental impacts, it cannot be approved with merely an addendum under Section 15164 of the CEQA Guidelines. Given the reasons set forth herein, and the City's unusually short period of time to submit this appeal (15 days), my clients reserve the right to proffer further evidence and testimony at your hearing on their appeal.

Subdivision B of Section 9.02.240 directs that this appeal letter "shall be accompanied by the required fee." In reviewing your City's current fee schedule, it appears that the fee for this appeal is \$750. However, under Section 10 of the fee schedule, the City Council may waive this fee on a case-by-case basis for any private or public agency.

Honorable Chairman and Members of the Planning Commission
Appeal of Administrative Decision Approving Aldi Foods Project
December 5, 2013
Page 2

Requiring such a fee in *this* situation – citizens rather than project applicants appealing an administrative decision – violates State law. Notably, CEQA only authorizes agencies to charge and collect “a reasonable fee from any person proposing a project subject to [CEQA]” (Public Resources Code section 21089(a).) Moreover, in 1993, the Legislature added subdivision (c) to Section 21151 of CEQA, expressly granting the public a statutory right to appeal CEQA decisions to an elected decisionmaking body:

“If a nonelected decisionmaking body of a local lead agency certifies an environmental impact report, approves a negative declaration or mitigated negative declaration, or determines that a project is not subject to this division, that certification, approval, or determination may be appealed to the agency’s elected decisionmaking body, if any.”

Thus, the City has no legal authority to set up a toll booth and dun members of the public who seek to exercise their statutory right to appeal to their elected officials. Such a “pay to play” scheme deprives all but the wealthy of what the California Supreme Court calls “the ‘privileged position’ that members of the public hold in the CEQA process.” (*Concerned Citizens of Costa Mesa, Inc. v. 32nd Dist. Agricultural Association* (1986) 42 Cal.3d 929, 935-936.)

Therefore, we are tendering the enclosed check in the amount of \$750.00 under protest, fully expecting that the City will follow State law and/or its own “case-by-case” discretion, and return it to us uncashed.

Please provide written notice of the date and time set for the hearing on the appeal addressed to our office. Pursuant to CEQA section 21092.2, please consider this letter to be our written request for notice to also be provided to the undersigned by e-mail at: john@CEQA.com.

Thank you in advance for your courtesy and cooperation on this matter.

Very truly yours,

LEIBOLD McCLENDON & MANN, P.C.



By: John G. McClendon

Enclosure: check for \$750.00

BRIGGS LAW CORPORATION

*San Diego Office:
814 Morena Blvd., Suite 107
San Diego, CA 92110*

*Telephone: 619-497-0021
Facsimile: 619-515-6410*

Please respond to: Inland Empire Office

*Inland Empire Office:
99 East "C" Street, Suite 111
Upland, CA 91786*

*Telephone: 909-949-7115
Facsimile: 909-949-7121*

BLC File(s): 1007.41

January 16, 2014

Planning Commission
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

Re: Public Hearing Item No. 1 - Amended Plot Plan P13-111, Including Addendum to the Certified West Ridge Commerce Center Project Environmental Impact Report

Dear Planning Commission:

On behalf of my client, CREED-21, I am writing in opposition to the above-identified Project. The Project should be denied because its approval would violate the California Environmental Quality Act ("CEQA").

An Addendum Is Inappropriate for This Project

An Addendum to a previously certified EIR is appropriate only if some changes or additions are made to a project but none of the conditions described in 14 CCR Section 15162 calling for preparation of a subsequent EIR have occurred. Section 15162 states that a subsequent EIR must be prepared where, among other things, a project will have one or more significant environmental impacts, or more severe environmental impacts, than contemplated by a prior EIR.

A subsequent or supplemental EIR should have been prepared for this Project because, among other things, it involves new environmental impacts and an increase in the severity of previously identified environmental impacts. There may be more deficiencies with the environmental document but the City's use of the Addendum deprived the public of the opportunity to identify them.

Formal Review Period for Environmental Document Was Required

As the City wrongly chose to use an addendum for the Project, it subsequently denied the public a formal review period so it could adequately comment on the Project's impacts. CEQA requires that subsequent and supplemental EIRs – which is the appropriate document for this Project – be subject to the kind of notice and public review as is given to a draft EIR. The City cannot circumvent the public by using the wrong environmental document for this Project.

CREED-21 Has a Right to Appeal to the Planning Commission's Decision to City Council

Finally, should you choose to deny the appeal of the Project's approval, CREED-21 demands it be given the right to appeal the Planning Commission's denial to the City Council. Public Resources Code Section 21151 expressly states:

“If a nonelected decisionmaking body of a local lead agency certifies an environmental impact report, approves a negative declaration or mitigated negative declaration, or determines that a project is not subject to this division, that certification, approval, or determination may be appealed to the agency's elected decisionmaking body, if any.”

Therefore, CREED-21 is entitled to appeal the Planning Commission's decision approving or denying the Project to the City Council.

If for any reason your consideration of this item is not completed at this meeting, please provide me with written notice of the new date and time for their consideration.

Thank you for your prompt attention to this important matter.

Sincerely,

BRIGGS LAW CORPORATION

Anthony N. Kim

LEIBOLD McCLENDON & MANN
A PROFESSIONAL CORPORATION

23422 MILL CREEK DRIVE, SUITE 105
LAGUNA HILLS, CALIFORNIA 92653
(949) 457-6300
FAX: (949) 457-6305

JOHN G. McCLENDON
john@CEQA.com

January 16, 2014

VIA E-MAIL and U.S.P.S.

City of Moreno Valley Planning Commission
% City Clerk and Jeff Bradshaw, Associate Planner
Moreno Valley City Hall
14177 Frederick Street
Moreno Valley, CA 92553

Re: *Tonight's Public Hearing on Our Client's Appeal of the City of
Moreno Valley's Community & Economic Development Director's
November 22, 2013 approval of Amended Plot Plan P13-111
[Ridge Rancho Belagio — Aldi Foods regional headquarters & distribution center]*

Honorable Chairman and Members of the Planning Commission:

I am writing to protest the handling of our client's appeal and what appears to be a troubling pattern of attempting to thwart open public participation in land use matters in the City of Moreno Valley.

As you probably know, by letter dated December 5, 2013, I filed my clients' appeal of the above-referenced approval to your body. Thereafter, I heard nothing from the City regarding it until Tuesday morning, January 7, 2014, when I picked up a voicemail message Jeff Bradshaw had left on my voicemail the previous day at 3:19 p.m., informing me that the appeal "has been agendized already" for January 16, 2014, and asking me for my email address so the hearing notice and other materials could "get to you a little quicker."

I reached Jeff by phone Wednesday afternoon, January 8, 2014. When I complained about the short notice, he apologized and said he'd hoped to provide notice of the hearing before the holidays but had been swamped with other matters. After he said he'd sent me an email on Monday, I informed him I didn't have it. However, while I was still on the phone with him, I searched our server where I found it caught in the spam filter. (I then sent him an email to "whitelist" his email address so future emails from him would not get diverted

Honorable Chairman and Members of the Planning Commission
Tonight's Public Hearing on Our Client's Appeal of P13-111
January 16, 2014
Page 2

as spam.) I asked Jeff to send me copies of the Addendum and the original EIR for which it was prepared and mentioned that I was leaving town the next day on a short vacation and would be back on Monday, January 13, 2014. When I returned to work on Monday, I found the requested Addendum and EIR which our office received January 10, 2014.

My clients have retained a consultant to review and advise us on certain CEQA aspects of the Project. However, what with the absurdly short notice we were provided of our *own* appeal, our consultant has been unable to complete that review.

In my 25 years of providing legal services to cities and counties throughout California on literally hundreds of CEQA and land use matters, I cannot recall a single occasion where a project applicant requested the continuance of a hearing on its project and that request was denied. Given what happened here, I am requesting that you extend my clients the same courtesy for their appeal by continuing it to a later date. Alternatively, you could simply do the right thing by granting my clients' appeal and instructing City staff to put the Addendum out for a period of review so that the public can review and comment on it.

If, however, you choose instead to railroad my clients' appeal by denying it tonight, at least please afford them the basic courtesy of letting them know that immediately so that they can timely exercise their right under Section 9.02.240.A.2 of the City's *Municipal Code*, and appeal your decision to the City Council.

Thank you for your consideration of our request.

Very truly yours,

LEIBOLD McCLENDON & MANN, P.C.


By: John G. McClendon

CO
JB ✓

LEIBOLD MCCLENDON & MANN
A PROFESSIONAL CORPORATION

23422 MILL CREEK DRIVE, SUITE 105
LAGUNA HILLS, CALIFORNIA 92653
(949) 457-6300

FAX: (949) 457-6305

RECEIVED

JAN 30 2014

CITY OF MORENO VALLEY
Planning Division

JOHN G. McCLENDON
john@CEQA.com

January 29, 2014

VIA NORCO OVERNIGHT

City of Moreno City Council
% Community Development Director
Moreno Valley City Hall
14177 Frederick St.
Moreno Valley, CA 92553

Re: Appeal to City of Moreno Valley City Council [Muni Code § 9.02.240]
[Aldi Foods regional headquarters & distribution center; EIR Addendum for same]

Honorable Mayor and City Council Members:

In accordance with Section 9.02.240 of the City of Moreno's Valley *Municipal Code*, I am appealing the Planning Commission's Decision, made on or about January 16, 2014, denying my client's appeal of the Administrative Decision, made on or about November 22, 2013, and approving an Amended Plot Plan and EIR Addendum for the above-referenced project (the "Project"). I am filing this appeal on behalf of our clients who are citizens of the City of Moreno Valley and who by letter dated December 5, 2013, opposed this Project for the reasons stated therein.

In accordance with Subdivision B of Section 9.02.240, the specific reasons for this appeal are that by preparing an EIR Addendum for the Project the City recognizes that it is a discretionary project subject to CEQA; however, due to the unique nature of this Project and its environmental impacts, it cannot be approved with merely an addendum under Section 15164 of the CEQA Guidelines. Given the reasons set forth herein, and the City's unusually short period of time to submit this appeal (15 days), my clients reserve the right to proffer further evidence and testimony at your hearing on their appeal.

Enclosed is our check in the amount of \$750, covering for the appeal fee. However, under Section 10 of the fee schedule, the City Council may waive this fee on a case-by-case basis for any private or public agency. Requiring such a fee in *this* situation – citizens rather than project applicants appealing an administrative decision – violates State law. Notably, CEQA only authorizes agencies to charge and collect "a reasonable fee from any person

Honorable Mayor and City Council Members
Appeal of Planning Commission's Approval of Aldi Foods Project
January 29, 2014
Page 2

proposing a project subject to [CEQA]" (Public Resources Code section 21089(a).) Moreover, in 1993, the Legislature added subdivision (c) to Section 21151 of CEQA, expressly granting the public a statutory right to appeal CEQA decisions to an elected decisionmaking body:

"If a nonelected decisionmaking body of a local lead agency certifies an environmental impact report, approves a negative declaration or mitigated negative declaration, or determines that a project is not subject to this division, that certification, approval, or determination may be appealed to the agency's elected decisionmaking body, if any."

Thus, the City has no legal authority to set up a toll booth and dun members of the public who seek to exercise their statutory right to appeal to their elected officials. Such a "pay to play" scheme deprives all but the wealthy of what the California Supreme Court calls "the 'privileged position' that members of the public hold in the CEQA process." (*Concerned Citizens of Costa Mesa, Inc. v. 32nd Dist. Agricultural Association* (1986) 42 Cal.3d 929, 935-936.)

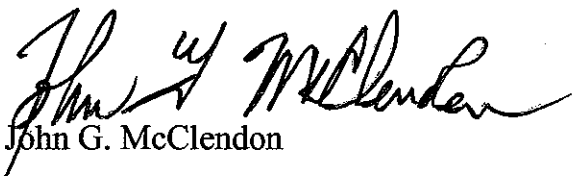
Therefore, we are tendering the enclosed check in the amount of \$750.00 under protest, fully expecting that the City will follow State law and/or its own "case-by-case" discretion, and return it to us uncashed.

Please provide written notice of the date and time set for the hearing on the appeal addressed to our office. Pursuant to CEQA section 21092.2, please consider this letter to be our written request for notice to also be provided to the undersigned by e-mail at: john@CEQA.com.

Thank you in advance for you courtesy and cooperation on this matter.

Very truly yours,

LEIBOLD McCLENDON & MANN, P.C.


By: John G. McClendon

Enclosure: check for \$750.00

PROOF OF SERVICE

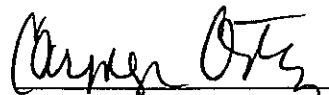
I declare that I am over the age of 18 and not a party to the within action. I am employed in the County of Orange, State of California, and my business address is 23422 Mill Creek Drive, Suite 105, Laguna Hills, California 92653.

On January 29, 2014, I served the foregoing document entitled "Appeal to City of Moreno Valley City Council [Muni Code § 9.02.240] [Aldi Foods regional headquarters & distribution center; EIR Addendum for same]" on the California Attorney General by placing the original of such document in a sealed envelope addressed as follow:

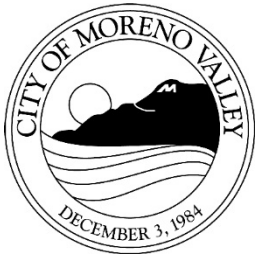
City of Moreno City Council
% Community Development Director
Moreno Valley City Hall
14177 Frederick St.
Moreno Valley, CA 92553

- BY MAIL: I am "readily familiar" with this firm's practice for collection and processing correspondence for mailing. Under that practice, it would be deposited with the U.S. Postal Service on the same day this declaration was executed with postage thereon fully prepaid at Laguna Hills, California, in the ordinary course of business. Following ordinary business practice, I caused such envelope with postage thereon fully prepaid to be placed for collection in the United States Mail at Laguna Hills, California.
- BY OVERNIGHT COURIER: I caused such envelope to be deposited in a box or other facility regularly maintained by NORCO OVERNITE; FEDERAL EXPRESS; [specify name of service] with delivery fees fully provided for, or I delivered the envelope to a courier or driver of such service.
- [State] I declare under penalty of perjury under the laws of the State of California that the above is true and correct.
- [Federal] I declare under penalty of perjury that the foregoing is true and correct and that I am employed in the office of a member of the bar of this court at whose direction the service was made.

Executed on January 29, 2014, at Laguna Hills, California.


Carmen Ortiz

This page intentionally left blank.



**PLANNING COMMISSION
STAFF REPORT**

Case: P13-111 – Amended Plot Plan

Date: January 16, 2014

Applicant: ALDI

Representative: Ridge Rancho Belago

Location: South side of State Route 60, on the north side of Eucalyptus Avenue and approximately 650 feet west of Redlands Boulevard.

Proposal: Appeal of the Community & Economic Development Director’s November 22, 2013 approval of Amended Plot Plan P13-111 to construct an 800,430 square foot warehouse distribution facility in place of the 937,260 square foot warehouse facility originally approved for the West Ridge Commerce Center project (PA08-0097).

Recommendation: Approval

SUMMARY

The applicant proposes to develop the an 800,430 square foot refrigerated warehouse facility on a 55 acre site in place of a 937,260 square foot warehouse facility which was originally approved by the City Council for the same site on September 6, 2011.

PROJECT DESCRIPTION

Amended Plot Plan P13-111 was approved by the Community and Economic Development Director on November 22, 2013 following review of the project plans and preparation of an Addendum to the Certified Environmental Impact Report (EIR) for the West Ridge Commerce Center project.

An appeal of this administrative decision to the Planning Commission was received by the City on December 5, 2013. The project was then scheduled for a Planning Commission public hearing on January 16, 2014. The appeal letter challenges the appropriateness of preparing an EIR Addendum to address the changes to the project proposed by Amended Plot Plan P13-111. A copy of the appeal letter has been included in the staff report as Attachment 8.

Project

The project includes an 800,430 square foot refrigerated warehouse distribution facility on 55 acres for use as the regional headquarters for grocery retailer, Aldi. Aldi is the owner/operator of the facility and would employ approximately 200 employees at this location.

The proposed refrigerated warehouse facility would replace a 937,260 square foot warehouse facility (West Ridge Commerce Center) which was approved by the City Council as Plot Plan PA08-0097 for the same site on September 6, 2011. The original approval included the Certification of an Environmental Impact Report for the West Ridge Commerce Center project.

The Amended Plot Plan P13-111 proposes the following minor changes:

- A reduction in building area from 937,260 square feet to 800,430 square feet;
- Revised elevations and colors;
- Revised on-site parking layout and circulation; and
- Re-design of the storm water detention system from two basins to a single basin.

Site

The project site is comprised of vacant land that is mostly level and at grade with Fir Avenue/Future Eucalyptus Avenue and at or below grade of adjacent State Route 60. There are no trees, rock outcroppings or existing structures located within the limits of the project site. The project site includes a portion of the Quincy Channel which includes some riparian vegetation.

The project site is zoned Light Industrial (LI) with a Business Park (BP) General Plan land use designation.

The proposed refrigerated warehouse distribution facility is a permitted use in the Light Industrial zone.

Surrounding Area

The project is located in an area that includes a mix of business park, office, commercial, residential and agricultural uses.

Developed land within proximity to the project site includes citrus groves, the Moreno Valley Auto Mall and Moreno Beach Plaza (Walmart) center to the west at Moreno Beach Drive, the 1.8 million square foot Highland Fairview Business Park (Skechers) warehouse facility to the east between Redlands and Theodore and large lot subdivisions approximately 1/4 mile to the south in the RA-2 zone.

Developed uses to the north on the other side of State Route 60 include an RV storage site, a telecommunications antenna, a residence and a feed store. The vacant 120 acre site to the west is currently proposed for development of a 2.2 million square foot industrial park by ProLogis.

Access/Parking

The project site will be accessed directly from Fir Avenue/Future Eucalyptus Avenue via Redlands Boulevard and State Route 60. This portion of Fir Avenue/Future Eucalyptus Avenue would be constructed by the applicant/developer as a condition of the project.

The driveways and interior drive aisles associated with the project have been approved by the Fire Prevention Bureau for fire truck access and turnaround. The site has also been designed for adequate truck maneuvering and turnaround within the designated loading zones located on the north and south elevations of the building.

Based upon the results of a parking study prepared per Municipal Code Section 9.11.070 a total of 313 employee spaces is needed for the operation of the proposed warehouse. The project design provides 374 employee/visitor spaces. The project satisfies all parking requirements of the City's Municipal Code.

Design/Landscaping

The site layout has been modified from the original approval by replacing two detention basins along Fir Avenue/Future Eucalyptus Avenue with a single basin and re-designing on-site circulation and employee parking.

The building has been reduced in size from 937,260 square feet to 800,430 square feet and new elevations proposed. The proposed use requires the installation of roof-mounted refrigeration units and the addition of emergency generators near the building's northwest corner.

The facility includes the following:

- 263,800 square feet of perishable area;
- 506,380 square feet of warehouse;
- 5,250 square feet mechanical room;
- 25,000 square feet of 1st floor office and 25,000 square of 2nd floor office.

The architectural design of the building is concrete tilt-up construction. Building and wall colors include earthtones with varying amounts of accent colors and vertical features to break up the architecture of building. All roof top equipment will be screened by parapet walls and screen shelters.

Site design and architectural design of the proposed warehouse distribution facility is consistent with requirements of the City's Municipal Code.

Staff worked with the applicant to ensure that all sides of the building include architectural treatment consistent with the Municipal Code. The loading bays and trailer storage areas along the northern and southern elevations have been screened from view. The screen wall along the south elevation is a fourteen (14) foot wall of concrete tilt-up construction which will match the building design and colors.

The site plan has been designed to provide landscape areas and parking lot planters consistent with the City's Municipal Code. The City's Municipal Code does not require a minimum percentage of landscape on a site. Instead, there are requirements for landscape setback areas along perimeter streets, parking lot landscape, street trees and landscape treatments around the perimeter of the buildings where visible from the public right-of-way. The project as designed meets the City's current landscape criteria.

Signs are not a part of this approval and will be reviewed and approved under separate administrative permit.

This project has been reviewed and the design of the proposed Amended Plot Plan conforms to all development standards of the LI zone and the design guidelines for industrial uses as required within the City's Municipal Code.

REVIEW PROCESS

The project was reviewed by the Project Review Staff Committee (PRSC) in September and October 2013. Minor modifications were required to the plot plan exhibits and preliminary grading plan.

Revised plans were submitted in October 2013. Following review of the revised exhibits, notice of a pending Administrative Decision was published and circulated with the Amended Plot Plan being approved by the Community and Economic Development Director on November 22, 2013.

An appeal of this decision was received by the City on December 5, 2013 and a determination was made to schedule the project for a Planning Commission public hearing on January 16, 2014.

ENVIRONMENTAL

Following review of the Amended Plot Plan application P13-111, staff determined that preparation of an Addendum to the Certified EIR for the West Ridge Commerce Center project was warranted to address minor changes and since none of the conditions described in CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR had occurred. Section 1.3 of the Addendum provides a brief explanation of the decision to not prepare a subsequent EIR for Amended Plot Plan P13-111.

The preparation of the Addendum included updates to the environmental checklist, updates to the project's traffic and air quality studies, and a field review update to the original biological study.

The Addendum concluded that implementation and operation of the amended plot plan will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the Certified EIR.

The California Environmental Quality Act Guidelines do not require the circulation of an addendum for public review. However, notices of a Pending Administrative Review for Amended Plot Plan P13-111 were distributed through the United State Postal Service to all property owners within 300 feet of the project site and to all interested parties.

Copies of the Addendum have been available to the public during the 10 day notice period and provided to all interested parties upon request.

NOTIFICATION

As noted above, public notice of a Pending Administrative Review for Amended Plot Plan P13-111 was distributed to all property owners within 300 feet of the project site and to all interested parties in advance of the November 22, 2013 approval of the project.

In response to the notices, the City received two comments letters which have been included in the staff report as Attachment 6.

Concerns raised in the letters included:

- Site design and aesthetics;
- Multi-use trail installation;
- Mitigation for traffic impacts;
- Impacts to air quality;
- Increased greenhouse gas emissions; and
- The adequacy of existing mitigation measures.

Planning Commission Staff Report

Page 6

The applicant and the environmental consultant prepared responses to those comment letters which are included in the staff report as Attachment 7.

An appeal of this decision was received by the City on December 5, 2013 and the project was placed on the Planning Commission's January 16, 2014 public hearing agenda. A copy of the appeal letter has been included in the staff report as Attachment 8.

Public notice of the January 16, 2014 Planning Commission public hearing was sent to all property owners of record within 300' of the project. The public hearing notice for this project was also posted on the project site and published in the local newspaper.

STAFF RECOMMENDATION

Staff recommends that the Planning Commission **APPROVE** Resolution No. 2014-02 and thereby:

1. **RECOGNIZE** that an Addendum to the original West Ridge Commerce Center project Environmental Impact Report was prepared for Amended Plot Plan P13-111. The Addendum concludes that implementation and operation of the amended plot plan will not result in any significant new, different, additional, or substantially increased environmental impacts than were previously considered and addressed in the Certified EIR. See copy of the attached Addendum included as Exhibit A; and
2. **APPROVE** P13-111 (Amended Plot Plan), subject to the attached conditions of approval included as Exhibit B.

Prepared by:

Jeff Bradshaw
Associate Planner

Approved by:

Chris Ormsby, AICP
Interim Planning Official

ATTACHMENTS:

1. Public Hearing Notice
2. Planning Commission Resolution No. 2014-02 with copy of Addendum and conditions of approval
3. Aerial Photograph
4. Architectural Plans
5. Preliminary Grading Plan
6. Administrative approval comment letters
7. Responses to comment letters
8. Appeal letter
9. Certified Final EIR – For Reference
10. Draft EIR – For Reference

1 **CHAIR VAN NATTA** – Okay the public is advised that the procedures to be
 2 followed in the meeting are posted at the back of the room on the side there. We
 3 are going to begin with comments by any member of the public on any matter
 4 which is not listed on the Agenda but is within the subject matter jurisdiction of
 5 this Commission. Do we have any Speaker Slips?

6
 7 **INTERIM PLANNING OFFICIAL ORMSBY** – There are no Speaker Slips.

8
 9 **CHAIR VAN NATTA** – No Speaker Slips. I see nobody standing there ready to
 10 speak, so I'm going to now close the Public Comments and we will go right to our
 11 Public Hearing Items.

12
 13
 14
 15 **PUBLIC HEARING ITEMS**

- 16
 17 **1. Case Description: P13-111 – Appeal of the Community & Economic**
 18 **Development Director's November 22,**
 19 **2013 approval of Amended Plot Plan**
 20 **P13-111.**

21
 22 **Case Planner: Jeff Bradshaw**

23
 24 **CHAIR VAN NATTA** – Item No. 1, Case Description is P13-111, Appeal of the
 25 Community and Economic Development Director's November 22nd, 2013
 26 approval of Amended Plot Plan P13-111. The Applicant is Aldi and our Case
 27 Planner is Jeff Bradshaw. But I might want to say before we start that we got a
 28 letter that says that the Applicant might be asking for a continuance... they
 29 decided not to... okay.

30
 31 **ASSOCIATE PLANNER BRADSHAW** – Yeah to clarify the letter is actually a
 32 follow-up from the Appellant or the body that appealed the project and I had
 33 some information that I was going to present on that in my presentation.

34
 35 **CHAIR VAN NATTA** – Okay, go ahead then

36
 37 **ASSOCIATE PLANNER BRADSHAW** – Thank you. Good evening Chair Van
 38 Natta and members of the Planning Commission. My name is Jeff Bradshaw.
 39 I'm an Associate Planner with the Planning Division. I have a short presentation
 40 for you this evening. Our Planning Official, Chris Ormsby also has some things
 41 he wanted to present. Available also this evening is Ross Geller from Applied
 42 Planning. He is the EIR Consultant that worked with the City to prepare the
 43 Addendum as well as the Applicant, Aldi with the team representing them this
 44 evening. As described in the Agenda, Amended Plot Plan P13-111 proposes to
 45 develop an 800,430 square foot refrigerated warehouse facility on a 55 acre site

1 and this proposal would replace a larger warehouse facility of 937,260 square
2 feet that originally approved by the City Council for this site in September 2011.

3
4 The location is on the south side of the 60 Freeway, west of Redlands Boulevard
5 and on the north side of Fir or future Eucalyptus Avenue. This project was
6 reviewed by Staff and presented to the Community and Economic Director for
7 approval on November 22nd of 2013, again after Staff review and preparation of
8 an Addendum to the Certified EIR that was approved by Council for the original
9 project. Following that action or the approval of Amended Plot Plan P13-111 an
10 appeal was filed with the City. That occurred on December 5th and the project
11 was then scheduled for Planning Commission Public Hearing this evening on
12 January 16th.

13
14 By way of background, the project as described is an 800,430 square foot
15 refrigerated warehouse. This use is intended to function as the Regional
16 Headquarters for the grocery retailer Aldi. Aldi is the owner/operator of the
17 facility and has currently planned to employ 200 people at this location. The
18 original project presented to the City Council in 2011 was for a speculative
19 warehouse without a tenant and what we are presenting to you this evening is for
20 an owner/operator facility.

21
22 The Amended Plot Plan proposes minor changes. Those include a reduction in
23 building area, revised elevations and colors, revised layout for the onsite parking
24 and the circulation and a redesign of the storm water basin from two separate
25 facilities to a single facility. The appeal letter as you have noted challenges the
26 appropriateness of preparing an Addendum to the EIR for this project. A copy of
27 that is available in the Staff Report for reference. Following the submittal of the
28 Amended Plot Plan to Staff, we had a chance to review the changes that were
29 proposed by that application and through the review of the Amended Plot Plan
30 and review of CEQA Guidelines, determined that the Addendum in this case was
31 an appropriate measure of the changes to the project. The project as presented
32 did not meet any of the criteria that would be required for a subsequent EIR as
33 described in the CEQA Guidelines, Section 15162 and additional to that affect an
34 explanation of that decision not to prepare a subsequent EIR is available in more
35 detail in Section 1.3 of the Addendum which is also attached to the Staff Report.

36
37 The preparation of that Addendum included updates to the environmental check
38 list, updates to traffic and air quality studies and a field review of the biological
39 study that was prepared originally. The conclusion of that Addendum is that the
40 implementation and operation of the amended Plot Plan will not result in any
41 significant, different or additional or substantially increased environmental
42 concerns or impacts beyond those previously considered or addressed in the
43 Certified EIR for the original project at that site. It is important to note I think that
44 out of that exercise no additional mitigation measures were required for this
45 project and the project as conditioned is required to satisfy all mitigation
46 measures originally adopted or approval by Council as contained in that Certified

1 EIR. One of the concerns raised in the various forms of correspondence that had
2 been submitted and challenged to this project was the circulation or the
3 availability of the Addendum to the public. This process is somewhat unique but
4 CEQA does not require the circulation of an Addendum for public review like it
5 would in the EIR.
6

7 Having said that, notices were circulated for the administrative decision in
8 November. There were members from the public, those that were interested in
9 following the progress of the project and asked to be notified to also receive a
10 copy of the Addendum. Those notices were sent and copies of the Addendum
11 were provided to those interested parties as requested. That information was all
12 taken into consideration leading up to the approval of the administrative...excuse
13 me, the Amended Plot Plan in November. Copies of the Addendum have been
14 available to the public again during this noticing period leading up to tonight's
15 hearing in a similar fashion as what was done for the admin decision in
16 November.
17

18 In the Staff Report in attachment 6, two letters that were provided to City Staff in
19 November preceding the original approval of the Amended Plot Plan. Concerns
20 raised there included site design, mitigation for traffic and air quality impacts and
21 suggested mitigation measures that might be added. Working with the project
22 Environmental Consultant and the Applicant, Staff has included a response to
23 those letters in the Staff Report by reference and that is Attachment 8. There
24 was an additional letter received this afternoon from Briggs Law Corporation.
25 They raised similar concerns about the preparation of the Addendum as those
26 that were identified in the appeal letter and as stated previously, Staff feels very
27 strongly, very confidently that the criteria for requiring a subsequent EIR has not
28 been satisfied.
29

30 This project, based on its merits, does not require a subsequent EIR and that the
31 preparation of an Addendum is appropriate as outlined in CEQA Guideline,
32 Section 15164. Additionally, there was another letter submitted late this
33 afternoon from the Appellant, from the group that wanted to see this project
34 presented to you this evening requesting a continuance of the item to have more
35 time to review the Addendum. In response to that, I just want to make clear that
36 the Appellant did receive notice before tonight's hearing consistent with the way
37 that we provide to anyone, so leading up to the meeting Mr. McClendon was
38 provided with a notice of tonight's meeting within the 10 day noticing period that
39 is prescribed for tonight's action. Subsequent to the December 5th appeal, he did
40 request copies of both the Addendum and the Certified EIR. That request was
41 made last week. Upon receipt of the request, we made sure that he had copies.
42 Why the request wasn't made in December, I couldn't explain, but as soon as he
43 asked for the information, we made sure that was available. So in response to
44 his concerns, Staff feels that we've satisfied both the noticing efforts that are
45 required of the City as well as making the information available upon request.
46 The project as presented, we would recommend that the Planning Commission

1 recognize that the preparation of an Addendum for this project is appropriate and
2 would recommend approval of the Amended Plot Plan as presented to you,
3 subject to the findings that are attached in the Planning Commission Resolution
4 and subject also to the conditions of approval that are being recommended. That
5 concludes the portion I was going to present and Chris Ormsby I think has some
6 things he also wanted to share.

7
8 **INTERIM PLANNING OFFICIAL ORMSBY** – I just had a couple of other points
9 to highlight; not really anything that much new, but just to focus on a couple of
10 points. One is the review of this amended project is entirely consistent with the
11 process that Planning Division has applied to other projects where the square
12 footage of the building is being reduced. In this case the building is reduced in
13 size from approximately 937,000 square feet to 800,430 square feet. An
14 Addendum is appropriate based on CEQA Guidelines, Section 15164 and none
15 of the conditions described in Section 15162 of the CEQA Guidelines calling for a
16 preparation of a subsequent EIR have occurred. Finally it should be noted that
17 no changes were required to mitigation measures, based on the environmental
18 review and these measures are included in the conditions of approval P53
19 through P105 and that concludes my comments.

20
21 **CHAIR VAN NATTA** – So to clarify what we are looking at then is this is the
22 project that was already approved and then there was an Addendum which made
23 some changes to it and what we are looking at tonight is whether that Addendum
24 can proceed without any further studies being done.

25
26 **INTERIM PLANNING OFFICIAL ORMSBY** – Well you're really looking at the
27 amended project, which for the environmental review had an Addendum, so it's
28 an Amended Plot Plan. Basically if you were to not approve the amended
29 project, there would still be an entitlement for a 937,000 square foot warehouse
30 on the site. So basically it would go back to the original approval based on that.

31
32 **CHAIR VAN NATTA** – We're just looking at the changes to it because the
33 original project was approved but there have been some changes and we're
34 looking at those changes and deciding whether or not it is appropriate for those
35 to go forward.

36
37 **INTERIM PLANNING OFFICIAL ORMSBY** – That's correct and these changes
38 were to address the needs of a specific tenant.

39
40 **CHAIR VAN NATTA** – Okay at this time we'll take Public Comments and shall
41 we start with the Applicant.

42
43 **CITY ATTORNEY BRYANT** – This situation is kind of unusual because it is an
44 appeal, so perhaps the Appellant would want to go first and open up the Public
45 Hearing.

1 **CHAIR VAN NATTA** – Okay and you said you had a question...

2
3 **VICE CHAIR GIBA** – I just wanted a point of clarification if I may. Was this
4 originally just this Addendum; this change was originally administratively done
5 and not necessary. In other words it was never going to come to us unless it got
6 appealed; unless they did appeal it?

7
8 **INTERIM PLANNING OFFICIAL ORMSBY** – That’s correct and that is...

9
10 **VICE CHAIR GIBA** – The appeal actually is the action they took because you
11 administratively did it?

12
13 **INTERIM PLANNING OFFICIAL ORMSBY** – That’s correct as appealed

14
15 **VICE CHAIR GIBA** – That point of clarification that we would not have seen this
16 had there not been an appeal. It would have just been approved administratively
17 through the normal planning process that they would normally go through
18 because the EIR was already approved.

19
20 **INTERIM PLANNING OFFICIAL ORMSBY** – That’s correct

21
22 **CITY ATTORNEY BRYANT** – What is before you tonight is the Amended Plot
23 Plan, so the Plot Plan had already been approved with a Certified EIR.

24
25 **CHAIR VAN NATTA** – So this is just for the amendment

26
27 **CITY ATTORNEY BRYANT** – For the Amended Plot Plan and the Addendum to
28 the EIR

29
30 **CHAIR VAN NATTA** – Alright then...

31
32 **COMMISSIONER SIMS** – Can I go back on that just for a second. I want to
33 make sure I understand. In 2011 there was a Certified EIR approved for a
34 project that was based on a speculative tenant. The project has come back with
35 a refined one; with owner requirements that required some minor changes based
36 on the amendment in Staff Report of minor amendments to the prior approved
37 Plot Plan. So what I thought I heard was when Commissioner Giba was asking,
38 the amendments to the Plot Plan and the amendment to the CEQA was
39 processed administratively because Staff...there was a Staff and legal...City
40 Staff and legal considered that this was an administrative approval and not
41 necessary to have a public hearing or go to Planning Commission.

42
43 **ASSOCIATE PLANNER BRADSHAW** – That’s correct

44
45 **COMMISSIONER SIMS** – So really, the only thing we’re here to approve is to
46 formalize the administrative action based on the appeal. Are we even being

1 asked to approve a Plot Plan because it has already been approved? We're just
2 going through this process because it was appealed.

3
4 **INTERIM PLANNING OFFICIAL ORMSBY** – The appeal as I understand it is of
5 the project itself which includes the environmental, so you are reviewing the
6 amended project.

7
8 **COMMUNITY AND ECONOMIC DEVELOPMENT DIRECTOR TERELL** –
9 Basically what happens when a project is appealed; usually people appeal your
10 decisions and not our decisions and then it goes to City Council and when it is
11 appealed to a higher level then it is as though you were the approval body.

12
13 **CHAIR VAN NATTA** – And then whatever recommendation we make to that then
14 again will go to City Council for final action. Whether we approve or deny the
15 appeal then that would; it would still be the City Council that makes the final
16 decision if whoever we rule against on this is not happy with it they can appeal it
17 to the City Council.

18
19 **INTERIM PLANNING OFFICIAL ORMSBY** – Your action will be final unless
20 appealed.

21
22 **CHAIR VAN NATTA** – Yeah, the same as when we are looking at an original.
23 Alright I think we're ready now to listen to the Appellant. Is there anybody here?

24
25 **INTERIM PLANNING OFFICIAL ORMSBY** – I don't have any Speaker Slips
26 from an Appellant.

27
28 **CHAIR VAN NATTA** – Okay then we will go on to the Speaker Slip that we do
29 have which is Liz Ruggles and you have three minutes.

30
31 **CITY ATTORNEY BRYANT** – Is this the Applicant?

32
33 **INTERIM PLANNING OFFICIAL ORMSBY** – Yeah this is the Applicant tonight
34 so we would not limit their time.

35
36 **CHAIR VAN NATTA** – Oh okay forget what I said about three minutes. Go
37 ahead and tell us

38
39 **APPLICANT RUGGLES** – I was planning on keeping it brief anyway.

40
41 **CHAIR VAN NATTA** – Thank you

42
43 **APPLICANT RUGGLES** – Thank you for having us here this evening and giving
44 us this opportunity to speak in front of you. We're excited to have the opportunity
45 to be a part of the Moreno Valley community and I just wanted to take a moment
46 to explain our company, Aldi, to you. Based outside of Chicago and Batavia,

1 Illinois, Aldi has been operating grocery stores here in the US for nearly 40 years.
2 Today Aldi operates nearly 1300 stores in 32 states, from Kansas to the east
3 coast. On average over last several years we've opened 80 new stores and
4 we're expanding into markets; new markets such as Houston and we're
5 continuing our expansion in competitive markets such as South Florida and New
6 York City. Aldi brings high quality groceries to consumers at incredibly low
7 prices. Smart shoppers have found that by coming and shopping at Aldi, they're
8 able to save up to 50 percent on their groceries by purchasing Aldi exclusive
9 brands and products compared to national brand products. We provide the
10 majority of what a consumer is buying on a regular basis, so basically the heart
11 of their grocery shopping list they can find with our Aldi exclusive products which
12 includes fresh meat, fresh produce and bakery items. Due to the high demand
13 that we have for consumers, we are accelerating our growth and we're able to
14 bring our high quality products to more and more consumers every day. So we
15 have recently embarked on an accelerated five year strategic plan to open 650
16 stores and add an additional 10,000 employees across the country and we are
17 excited to be able to include Moreno Valley within our growth strategy. Thank
18 you.

19
20 **CHAIR VAN NATTA** – Don't go away, we may have questions.

21
22 **APPLICANT RUGGLES** – Absolutely, I'd be more than happy to answer
23 questions

24
25 **CHAIR VAN NATTA** – So this is going to be a distribution center that will cover
26 what area?

27
28 **APPLICANT RUGGLES** – For the Moreno Valley area and for the eight counties.

29
30 **CHAIR VAN NATTA** – And for what?

31
32 **APPLICANT RUGGLES** – The eight counties; surrounding counties

33
34 **CHAIR VAN NATTA** – Okay and will there be retail stores? Where will the retail
35 stores in this area be?

36
37 **APPLICANT RUGGLES** – I will actually turn that over to Doug. I'm sorry... so
38 the retail stores; we are looking locate here within the eight counties.

39
40 **CHAIR VAN NATTA** – Do you have anything to add to that or we going to have
41 any in Moreno Valley?

42
43 **UNKNOWN SPEAKER** – Yes

44
45 **CHAIR VAN NATTA** – Okay

46

1 **APPLICANT RUGGLES** - We are in the current process of planning on how
2 many stores that the distribution center will service and the exact locations of
3 those.

4
5 **CHAIR VAN NATTA** – And typically Aldi’s stores are what square footage; what
6 size stores?
7

8 **APPLICANT RUGGLES** – The retail space square footage is about 10,000
9 square feet, so we’re definitely a smaller format store. We’re able to bring a very
10 streamlined efficient shopping experience to consumers so they are able to save
11 time and they are able to save money by shopping with us.
12

13 **CHAIR VAN NATTA** – Are there any other questions?
14

15 **COMMISSIONER RAMIREZ** – Thank you for coming. We appreciate your
16 project. My question is with hiring employees. Are you looking to hire from the
17 City of Moreno Valley or you looking at bringing employees from your other
18 distribution centers.
19

20 **APPLICANT RUGGLES** – No absolutely, we’re looking to hire local employees,
21 so this will be our first distribution center here on the west coast.
22

23 **COMMISSIONER LOWELL** – I had a couple of questions. Is Aldi planning on
24 moving into existing buildings; we have a couple of big chain grocery stores that
25 have left the City. Is there a possibility of moving into one of them or you a
26 smaller footprint like you stated and would be doing new construction buildings in
27 the future?
28

29 **APPLICANT RUGGLES** – We are a smaller footprint retailer, so we do go into
30 both existing retail spaces that work within our smaller footprint depending on the
31 market. We do also build our own stores, so it definitely is a mix depending on
32 the market.
33

34 **CHAIR VAN NATTA** – And about how many employees do you expect when you
35 are completed with this distribution center that will be working there?
36

37 **APPLICANT RUGGLES** – We expect to be adding about 200 jobs to this project
38 and nearly the majority of those employees would be working at the distribution
39 center.
40

41 **CHAIR VAN NATTA** – And is this also... I notice that there is quite a bit of office
42 space on this. Is this also going to be like regional offices for the company?
43

44 **APPLICANT RUGGLES** – It will be a regional headquarters and a distribution
45 center to support stores within the local area.
46

1 **CHAIR VAN NATTA** – And will you be bringing in some employees currently
2 work for Aldi as well.

3
4 **APPLICANT RUGGLES** – Yes we have brought in some of our employees that
5 have worked here in the US to help with the expansion plan, but in order to
6 support the growth that we do expect to bring to the community, we'll have to be
7 definitely an accelerated hiring to support that.

8
9 **CHAIR VAN NATTA** – Any more questions?

10
11 **VICE CHAIR GIBA** – Is this appropriate to ask about your facility and the plan
12 and the whole bit or is this just you who wanted to come and share with us about
13 Aldi?

14
15 **APPLICANT RUGGLES** – I'm prepared to answer any questions that you have
16 about Aldi the company and then we do have people here that can answer
17 additional questions that you may have about the plot and addendum.

18
19 **CHAIR VAN NATTA** – First we'll see if we have any other questions about Aldi
20 and their operation before we go onto them.

21
22 **APPLICANT RUGGLES** – Okay, thank you

23
24 **CHAIR VAN NATTA** – You can ask your question now and then they can direct
25 whoever it is best suited to...

26
27 **VICE CHAIR GIBA** – I'll try...I know there were some questions about the...I've
28 got a letter here so I'm going to see if it was in that letter in particular. Oh, right
29 here...I think this was a letter from Mr. Thornsley who asked about the
30 configuration of the enlarged retention basin. Can you hear me alright because I
31 don't like dipping into this...consideration be given to the necessity of fencing in
32 this area and its aesthetic character in the project. It is kind of on the south side
33 so I looked at it as a front yard lawn almost and had kind of an upward angle to it.
34 Have you given any consideration to making the retention basin; you know
35 working with that so that it's not such a big huge retention basin sitting there,
36 because it is going to be facing the south side which has potentially homes and
37 stuff down in that area especially up on the hillside and stuff.

38
39 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – Vice
40 Chair Giba, I think that is a more appropriate question for Staff.

41
42 **VICE CHAIR GIBA** – That's what I'm saying. I've got a whole bunch. You're
43 going have to direct me to what is appropriate or not.

44
45 **ASSOCIATE PLANNER BRADSHAW** – The project if approved as it goes into
46 plan check, that area would be landscaped as an extension of the parkway and

1 some of the surrounding landscaped areas in front of the building. In terms of
2 access to the basin, the fencing that is proposed is a match to the three rail fence
3 that is required along the multi-use trail that parallels Eucalyptus. So the area
4 will be landscaped and that is the type of fencing that is proposed around the
5 perimeter of the basin.

6
7 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – And just
8 for clarification, that is not a change from the original. The change from the
9 original is that two basins side by side along the frontage got changed to one
10 basin, so there has always been a condition of approval for screening as well as
11 some sort of fencing.

12
13 **VICE CHAIR GIBA** – No I understand that because I read it and I understand it is
14 a conditional of approval for screening or some kind of fencing. My question was
15 can you go up and above that to make it a little bit more aesthetically appealing.
16 That was the question.

17
18 **ASSOCIATE PLANNER BRADSHAW** – And that is the condition. It would be
19 landscaped for aesthetic purposes.

20
21 **VICE CHAIR GIBA** – You know I went through a lot of the letters and there were
22 some very good comments by a lot of the residents and personally I know that I
23 like to be recognized as having asked a decent question or at least have it
24 responded to in the public, so when I go through the letters these are some of the
25 things that I was looking at. I'll have several questions, so if anybody else has
26 some first they are more than welcome to ask because I've got... It's an entire
27 Environmental Impact Report... I was not here when this was approved. I was
28 not here under any condition of this. One question; it was not approved by the
29 Planning Commission when this was done. Do we know what that vote was?

30
31 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – No it was
32 approved by the City Council

33
34 **VICE CHAIR GIBA** – Right, it was not approved by the Planning Commission.

35
36 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – That's
37 correct

38
39 **VICE CHAIR GIBA** – Do we know what that vote was? I'm curious.

40
41 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – I don't
42 recall. It was obviously... it was less than you know three or four votes in favor

43
44 **VICE CHAIR GIBA** – Well I wanted to know how overwhelmingly the Planning
45 Commission disapproved it, that it had to go to the City Council. That kind of is
46 important information for me.

1 **CHAIR VAN NATTA** – I can answer part of that. Some of our original concerns
2 which were to a certain extent addressed when there was a tenant. One of the
3 Commissioners had a concern because we didn't know who the tenant was
4 going to be so how could we evaluate what the impact was going to be in traffic
5 and jobs and everything else like that. Another concern which was one that I had
6 voiced was in previous approvals, for example the approval for Sketchers, there
7 was a strong commitment that any future truck traffic for that area would be
8 directed down Theodore and would not go down Redlands, because Redlands
9 has a pretty strong commuter route and that was a question that I didn't feel had
10 been adequately answered. I believe since that time and you can correct me if
11 I'm mistaken, but after the project was approved by the City Council, they also
12 took Redlands off of the truck route so that trucks would not be able to go down
13 Redlands and go across on Cactus or something like that and they would be
14 restricted to just accessing this area from the freeway only. Is that correct?

15
16 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – Yes
17 that's correct

18
19 **CHAIR VAN NATTA** – Okay and that kind of took care of that concern that I had.
20 I don't know what other concerns were specific, but those seemed to be two of
21 the strongest concerns at the time that we denied the project in the first place,
22 but it went to the City Council and now that we have an actual tenant for the
23 place and we can ask them specific questions that is a little different. Go ahead.

24
25 **VICE CHAIR GIBA** – Thank you. Alright, I did realize that when we went through
26 it you had quite a few mitigations for the traffic studies and movement in that
27 email. I talked to Mr. Ormsby about it so he could be prepared to respond. As a
28 matter you had P53 through P71 as mitigations to the roads, traffic and patterns
29 all dealing mainly with Redlands Boulevard and Moreno Beach. Now Moreno
30 Beach is a little bit west of that particular warehouse area so I would suspect that
31 most of the traffic would be associated with the Redlands and as a matter of fact
32 I had a lot of them highlighted and I asked Mr. Ormsby to please explain to us a
33 couple of things I'd really like to understand because some of the letters the
34 question was brought up, have we got any guarantee that how many of these
35 mitigations will be done before they actually take residency in their building and
36 start having traffic approach us. We've gone from a warehouse to business
37 environment where we will have a lot more cars versus the plan from before, so
38 that is a lot of mitigations. Some of it is dependent upon TUMF fees and some
39 on DIF fees and so I think I asked Chris that can you please explain to me what
40 guarantees we have, how long out are some of these repairs and improvements
41 going to take place. Is there any order to this? I mean prioritized what goes first
42 for what reason and how long it is going to take for us to get it done. Of course
43 you guys know; Michael you definitely know this that I love my traffic issues.

44

1 **INTERIM PLANNING OFFICIAL ORMSBY** – Well and Transportation
2 Engineering is actually the most familiar with the TUMF program relative to these
3 street projects, so I’m going to defer to Michael to respond.
4

5 **TRAFFIC DIVISION ENGINEER LLOYD** – Good evening Chair and
6 Commissioners; thank you. To answer your question directly, very succinctly,
7 the projects that are identified as mitigation measures through the payment of
8 TUMF and DIF and other fair share fees would be handled through the City CIP,
9 the Capital Improvement Plan and that is administered by our Capital Projects
10 Division within the Public Works Department and those priorities are set by City
11 Council. So to keep the answer as short as possible, that is the answer in terms
12 of the priority setting process and it’s done on a yearly basis when we update our
13 CIP, which comes through here as you recall for certification before it goes on as
14 per conformance to the General Plan. In terms of specific improvements in time
15 frames, I apologize I don’t have my CIP sheet here in front of me but I can
16 address some off the top of my head here from memory. Improvements to
17 Moreno Beach as you may be are probably aware, phase one of the
18 reconstruction of the interchange was recently completed and we’re in phase two
19 as part of the CIP and we’re currently pursuing additional funding to make the
20 project whole, so as I recall it is partially funded and we’re in the process of filling
21 the gap so that it’s a fully funded project so that it can go to construction and I
22 don’t have a time frame in terms of when it would actually go to construction.
23 One thing to keep in mind the impacts that you are seeing that are cumulative in
24 nature that deal with Moreno Beach, were a result of a connection from this
25 project; the future Eucalyptus connecting directly to Moreno Beach Drive as it
26 currently exists as part of this Amended Plot Plan, the roadway would not
27 connect in the near term to Moreno Beach Drive, so traffic would in fact be
28 directed to Redlands into the freeway directly and as the Chair pointed out, the
29 truck routes in this area were revised probably within a year or so ago and it did
30 remove Redlands south of the freeway so that there is not an opportunity for
31 trucks to decide you know what, the shortest route for me is to go down
32 Redlands and cut across on Alessandro. That would be an enforcement issue,
33 so we would obviously work with our Police Department and cite those truck
34 drivers if they decided to do that, there is enforcement availability. So hopefully
35 I’ve answered your question. If there were specific improvements that you had
36 flagged, I’ll do my best to try to answer them.
37

38 **ASSOCIATE PLANNER BRADSHAW** – Michael I wasn’t sure if you would mind
39 just to distinguish between the cumulative impacts and those that are mitigation
40 measures for the operational stages of the project, because there is some
41 mitigation in there that has to be satisfied before occupancy.
42

43 **TRAFFIC DIVISION ENGINEER LLOYD** – That’s correct. Thank you Jeff. The
44 direct impacts as per all projects, any direct impacts have to be mitigated by the
45 Project Applicant and on this project and I’m going to take a look at my conditions
46 of approval quickly here. On this project the Applicant is required to put in a

1 traffic signal at the State Route 60 eastbound ramp at Redland Boulevard;
2 excuse me, westbound. I apologize and they are in plan check. They are in
3 process of fulfilling that requirement. It is within Cal Tran's right-of-way, so the
4 City does not control that necessarily. We are actually working with the Applicant
5 to get them through the Cal Trans process so that they can receive their
6 encroachment permit and actually construct the improvements, so that process is
7 under way. They are also conditioned to install a traffic signal at Redlands and
8 the future connection of Eucalyptus Avenue; the roadway there across their
9 project frontage which gives them access to Redlands Boulevard. Again, they
10 are in plan check and they are actually nearing completion of their plans so that
11 they can move forward with that particular improvement.

12
13 Another improvement that this project was conditioned for that was a direct
14 impact was installing an additional southland lane from the eastbound Redlands
15 ramp down to Eucalyptus so that instead of our current two lane roadway, one
16 lane in each direction, we'll continue to have one lane in the northbound direction
17 and two lanes in the southbound direction and the additional lane in the
18 southbound direction essentially functions as a turn lane connecting the ramp to
19 this project site so that trucks can turn directly from the freeway ramp in the
20 eastbound direction and enter the auxiliary lane without entering the three traffic
21 lane that exists today and then turn directly into the site. That's a requirement
22 that this project will have to install and again they are in plan check and they are
23 nearing completion of those plans so they can move forward with that
24 improvement. So those are the direct impacts that this project had been
25 identified as needing improvements and they are in the process of finalizing
26 those plans.

27
28 **CHAIR VAN NATTA** – In the northbound going to the freeway, it would still have
29 to cross the lane and there would still be a single lane going northbound over the
30 freeway.

31
32 **TRAFFIC DIVISION ENGINEER LLOYD** – That is correct and what is the
33 westbound ramp on the north side of the interchange they will be installing a
34 traffic signal and as part of the traffic signal installation they'll be adding turn
35 lanes; so left turn lanes and I believe there might be some right turn lanes as
36 well, so again we're trying to ease the congestion as we know today. There is
37 congestion out there today, so we don't want to make an existing problem worse.
38 They were conditioned to put in the traffic signal and add the turn lanes to ease
39 the congestion there and move traffic through the intersection.

40
41 **CHAIR VAN NATTA** - Then as a curiosity note before we get back into the actual
42 details there, do you know what the future plans are for expansion of the
43 Redlands overpass. I mean right now on the east side there is an on-ramp to
44 nowhere that I think was designed to accommodate that. Is there any idea of
45 how long that is going to be before that happens?

1 **TRAFFIC DIVISION ENGINEER LLOYD** – It is again a CIP issue, so it is part of
2 the overall CIP process, but to my recollection it is an unfunded project, so it is a
3 matter of identifying funding, so that we can begin the funding the process of
4 going through the environmental and preliminary planning.

5
6 **CHAIR VAN NATTA** – So approximately sometime within five, ten, fifteen years
7 from now.

8
9 **TRAFFIC DIVISION ENGINEER LLOYD** – That’s the rule of thumb and since it
10 is unfunded at this point in time I think that would be a reasonable guesstimate at
11 this point in time.

12
13 **COMMISSIONER SIMS** – Just for clarity the TUMF fee that is collected is
14 contributed to the potential for that upgrade?

15
16 **TRAFFIC DIVISION ENGINEER LLOYD** – That is correct

17
18 **COMMISSIONER SIMS** – But it is not identified yet for a CIP?

19
20 **TRAFFIC DIVISION ENGINEER LLOYD** – That is correct and obviously as we
21 do with all our interchanges we pursue any and all available funding, so whether
22 that is Federal, State, Regional and even local, so the projects are so massive,
23 they are tens of millions of dollars to get them completed, so we need a variety of
24 funding sources, not only just TUMF or not only just DIF, you know so we are
25 aggressively pursuing that for all of our projects.

26
27 **CHAIR VAN NATTA** – Would you like to go back to your questions?

28
29 **VICE CHAIR GIBA** – The reason I keep asking this is because as I went through
30 this document and may I remind you this is the first time I’ve seen these
31 documents. P53 to P71 is roughly eighteen conditions of approval for the street
32 repairs, street lights, improved lanes and all of that. I think you mentioned three
33 Michael but I can only find two; P53 and P54 that are issuance of the first
34 Certificate of Occupancy that those have to be done before they occupy the
35 warehouse. What was that third one as I’m flipping through here, because out of
36 eighteen only three are conditioned to be; that have to be done before they
37 occupy the warehouse, which means out of eighteen conditions of approval there
38 is no time line specific to when these improvements will be done for our traffic
39 problems out on that 60 Freeway with potentially another warehouse project right
40 on your heels.

41
42 **TRAFFIC DIVISION ENGINEER LLOYD** – The third...

43
44 **VICE CHAIR GIBA** – Pro Loges I think; right?
45

1 **TRAFFIC DIVISION ENGINEER LLOYD** – Well I can't address Pro Loges but I
2 can address your first question which was the third item I had referenced, which
3 was the auxiliary lane; the additional southbound lane.

4
5 **VICE CHAIR GIBA** – Give me a P# on that...

6
7 **TRAFFIC DIVISION ENGINEER LLOYD** – It may or may not be covered by the
8 P's. It is Condition TE10, so they are required to design the street which is
9 Condition TE10 and then Condition TE16 requires that the improvement be
10 installed per the approved plans prior to the issuance of a Certificate of
11 Occupancy, so this project cannot occupy the building and begin their operations
12 until that improvement is in place and been accepted by the City.

13
14 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – Yeah you
15 talked about there being a long list of items; most of those are cumulative when
16 an Environmental Impact Report is reviewed and if you wanted more specifics
17 the Environmental Impact Consultant is here, but they look at all the projects that
18 we know about in the City and when those are built what intersections will need
19 mitigation, so there is a lot of development beyond this project that causes those
20 improvements to be needed and I don't know the percentage, I'll just throw out
21 something, on a particular intersection they might provide 1 percent or 2 percent
22 of the traffic. That's why the fair share fee system is in place because 1 or 2
23 percent is not reasonable for and I believe well it is not even legal for us to
24 require them to build a hundred percent of the improvement, so that's why we
25 have a fair share system in the City of Moreno Valley with Development Impact
26 Fee and that is why the TUMF, the Regional fee also has that concept of little bits
27 being collected into big bits to build big projects and those are prioritized. Right
28 now as you know Nason is being finished up. Moreno Beach had a first phase.
29 They are working on the second phase of Moreno Beach, so it is kind of
30 something that goes in a progression and that is why Moreno Beach isn't done,
31 so we're not looking at Redlands yet and most of those other impacts are local
32 streets and they are covered primarily by the Development Impact Fee and that
33 is where you collect small bits from everything from a single-family house to this
34 project or bigger and all those bits go into a fund and then the Capital
35 Improvement Program and the City Council prioritizes where those are built and
36 so that is why we don't have a specific time frame on these particular
37 improvements, but their contribution to the solution to the Region; the system is
38 made. Does that make sense?

39
40 **VICE CHAIR GIBA** – Yeah it does, yeah it does. Thank you very much John and
41 the reason I'm beating this horse and I know he's dead but I'm still beating him is
42 because going through many of the letters and stuff there probably were three
43 major concerns that I keep seeing cropping up in front of me. One was traffic,
44 one was air quality and one was aesthetic value along the freeway, so I feel it's a
45 responsibility to make sure it is clarified and if there are any other concerns. We
46 apparently don't have a lot of people here asking these questions, so I'll ask

1 them for them, so if you don't mind. I went out to the site and looked around and
2 they are supposed to take care of some trails. In all honesty anything you do out
3 there on that site would make that... is that known as the Quincy Channel or is
4 that the Quincy dump ground because it is pretty; I mean it doesn't look like
5 anything has been done with that and you are requiring them to do a trail along
6 something that doesn't look like there should have ever been a trail there, so is
7 that going along that Quincy Channel; a trail going along that Quincy Channel?

8
9 **ASSOCIATE PLANNER BRADSHAW** – No, what they are required to do is
10 construct their portion of a segment of trail along the north side of Eucalyptus
11 which is the alignment of that segment of the Master Plan of Trails, so parallel to
12 the sidewalk you'll have curb, then some parkway, then sidewalk and then a
13 segment of multi-use trail.

14
15 **VICE CHAIR GIBA** – I make that comment because this is an improvement. It is
16 a compliment by the way folks. This would be an improvement to that area out
17 there that is not being used and when I went out there and looked at it, I've
18 never...you know it's never been touched so if somebody complains about
19 aesthetics they should go out there and take a walk and see that even if you are
20 putting a warehouse out there it might look a lot more... also I understand that
21 you building and not going across the channel. Am I correct? So you are not
22 going to be building the crossover across that channel to connect to what is
23 Eucalyptus now which is going to be Fir on the other end. Am I correct? So
24 they're not... that road is not going to be completed by their project? Am I
25 correct?

26
27 **ASSOCIATE PLANNER BRADSHAW** – This project will be required to develop
28 from Redlands down to their western property line. They will be a temporary
29 terminus of the road there on the east side of the Quincy Channel and so no they
30 are not required to provide the crossing. It is not necessary for access for
31 circulation on the roadway that is identified now as Fir. It is confusing, but in the
32 current General Plan scheme it's Fir/future Eucalyptus; sometimes called
33 "Fircalyptus" I guess for confusion sake.

34
35 **VICE CHAIR GIBA** – No I saw that. From Redlands and then travelling west it
36 was called Fir; travelling from east it is called Eucalyptus, so my assumption is by
37 all I've known is that when they are done with their project, they're done with Fir
38 converting to Eucalyptus, but from there it is the City's responsibility to finish or
39 somebody's responsibility to finish the rest of Eucalyptus which I'm assuming
40 goes by the Auto Mall over there. Am I correct and by the thing, so when I went
41 over there to take a look?

42
43 **ASSOCIATE PLANNER BRADSHAW** – Yes that is correct. The development of
44 that segment of the road would not occur until development occurred and
45 warranted those improvements and if development there requires the crossing to

1 complete the circulation system then that would also come with future
2 development.

3
4 **VICE CHAIR GIBA** – There was also a concern about the view from the houses
5 to the south. I went out there and sat on that street and looked; it's an uphill
6 angle and the houses behind that brick wall are just two or three or four, two-
7 story houses and I couldn't see the concern of the residents so I don't know if the
8 resident is here and was going to speak or anything and they can mention what
9 the concern was. I didn't see the problem with that because part of the question I
10 think said something about air conditioners being visible, however there is no...
11 oh several roof mounted refrigeration units on the building now necessitate 15
12 foot tall mechanical screen walls or penthouses that be larger than most homes
13 and will be fully visible from all locations along public rights-of-way. I didn't really
14 see that but maybe if the person who made this comment is here tonight, they
15 can kind of explain it when their time comes, so I might ask that question later.
16 There was a question on the impact report and stop me anytime, you guys can
17 jump in because I'm just trying to get a handle on this. I want to be able to say
18 yeah I get it and so does everybody else and we'll be happy to do what we want
19 with it. Oh, you've downsized the size of the lot from 937,260 to 825,430, so it
20 has become smaller and originally there was some use; the whole lot was going
21 to be used. Where did I find that at?

22
23 **ASSOCIATE PLANNER BRADSHAW** – That is actually the building size that
24 has changed.

25
26 **VICE CHAIR GIBA** – The building size; right, so when I looked at it the acreage
27 size changed by about two and half acres. Here it is. They said the remainder of
28 the 54.66 acre site was planned to provide a right-of-way dedications, on site
29 landscaping and storm water detention areas. Does that change; I mean is there
30 left-over acreage that you haven't accounted for or is it included in all of this
31 because the size of the building is now smaller. Does that make sense?

32
33 **SPEAKER GELLER**– Madam Chair, I don't know if Staff knows the answer to
34 that but it is the same size site...

35
36 **UNKNOWN STAFF MEMBER** – Will you introduce yourself on the record?

37
38 **SPEAKER GELLER** – My name is Ross Geller. I'm the Principal with Applied
39 Planning and I prepared the original West Ridge EIR; the original project and I
40 was also involved in preparing the Addendum that you are considering tonight
41 and the direct answer to the question you just asked had to do with right-of-ways
42 and the way the property was looked at the first time. In the original document it
43 is a raw piece of property versus right-of-ways that have been dedicated or will
44 be dedicated, so it made the property two acres smaller, but in essence it is the
45 same property, it was just a refinement as additional engineering plans were
46 done.

1 **VICE CHAIR GIBA** – So more room for right-of-ways, widening of streets and
2 stuff. I kinda thought that was case and I just wanted to make sure. You have a
3 table on the GHR emissions summary comparison. It was a little confusing to
4 me. You're going from the original project conference was not supposed to have
5 refrigeration to a unit now that has refrigeration, yet your documents are showing
6 your emissions for CO2 and CO2e have actually gone down after installing
7 refrigeration units on the document. Can you explain that to me?
8

9 **SPEAKER GELLER** – I can and it really gets back to the Chairman's comments
10 about the original Public Hearing and kind of the evolution of this entire project
11 and because the original project was a speculative project, we were forced to
12 look at what we call in the planning genre; you know the worst case scenario and
13 so what we did was we looked at who or what the maximum traffic could be
14 generated from this project; distributed that traffic based on the ITE generation
15 rate and what the City uses, which is the Fontana Truck Study and generated the
16 traffic, spread the traffic out on the street, mixed it with the cumulative traffic, then
17 looked at the impacts of that and then came up with mitigation, so when you go
18 back to the original West Ridge EIR mitigation, that really was the most intense
19 project that could be built on that site, because we didn't know who the tenant
20 was. What's happened is Aldi has come forward now. We have more
21 quantitative data now about how they run their operations, how many employees
22 they are going to have, when the vehicles are going to come, when they are
23 going to leave, so we're not making generalities any more, we're actually going to
24 their operational input and that is what is reflected in this document and so
25 without getting into detail because I'll just bore the tears out of you and the
26 answer to the question is when we did the original analysis, we over-estimated..
27 we didn't over-estimate, we did what we needed to do, but now that we have a
28 tenant we've refined that study and even with the addition of the refrigeration
29 units, which obviously have their own demands for electricity that increased it,
30 what's happened is the truck traffic has been reduced significantly and that has
31 been reflected in that table and if you want a clearer view of that Johnson Sedlak
32 has submitted a letter on the Addendum and I kinda did a summary and there is
33 a table attached there that shows exactly the issues that you're talking about and
34 explains why for a number of reasons the GAC impacts have been reduced, but
35 is really based on we have operational information and we know the way Aldi
36 operates.
37

38 **VICE CHAIR GIBA** – You have more specific data that you can draw conclusions
39 from than you did previously. Okay, I'll take a breather if anybody else has any
40 more questions. I have a few more and want to dig through them.
41

42 **CHAIR VAN NATTA** – Does anyone else have questions regarding the...
43

44 **COMMISSIONER RAMIREZ** – I've just got one quick question. I noticed there
45 were some changes to the elevations. Can we elaborate on that?
46

1 **ASSOCIATE PLANNER BRADSHAW** – I give you a brief summary and if you
2 need additional details, the architect is here as well. The building is smaller
3 obviously; new tenant and they had a preference in terms of the appearance of
4 the building, so the colors are different. The architectural details along the
5 various frontages have changed. What is similar is the use of glazing; the use of
6 earth-tones. I don't know if we can bring up the exhibit so we can show you. In
7 your packet there should be color elevations available. As we worked with the
8 Applicant with all areas of emphasis for Staff were to maintain; to focus on those
9 areas that were most visible, so the freeway frontage was an area of emphasis.
10 The southeast corner of the building where the regional offices are going to be
11 located was an area of emphasis. If you compare the two buildings side by side,
12 they are different. Staff felt very strongly that while different, the level of detail
13 was the same in both instances. Commissioner Ramirez I don't know if my
14 response is clear enough, if not we can ask the Architect to come up and
15 probably elaborate a little more specifically on...

16
17 **COMMISSIONER RAMIREZ** – Yeah my question is this building going to be
18 taller or shorter than the other one?

19
20 **ARCITECT** – Identical

21
22 **COMMISSIONER RAMIREZ** – Identical; okay; good to go

23
24 **ARCITECT** – And the intent of the design has remained the same, it's just areas
25 of that design have moved around a little bit on the building to accommodate the
26 user.

27
28 **COMMISSIONER RAMIREZ** – Okay, very well, thank you

29
30 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – The other
31 thing is there was a comment about equipment on the roof and we reviewed that
32 with all the... and our code and generally when you approve a building you don't
33 know exactly what equipment is going to be on the roof and we have specific
34 standards in our code that allow a certain percentage to be a certain height
35 above the roof deck and this specific project meets those standards.

36
37 **CHAIR VAN NATTA** – Have you had your breather?

38
39 **VICE CHAIR GIBA** – Yes

40
41 **CHAIR VAN NATTA** – Anything else?

42
43 **VICE CHAIR GIBA** – I'll just ask one more

44
45 **CHAIR VAN NATTA** – One more...

46

1 **VICE CHAIR GIBA** – We’re doing a great job here...

2
3 **CHAIR VAN NATTA** – I’ll hold you to that

4
5 **VICE CHAIR GIBA** - Well I’ll tell you, as you guys explain things and as you
6 discuss it, you know the light comes on and dim goes off, but in your EIR here
7 which you struck and I’m on page...I don’t know if it does you any good but
8 actually...it’s just at the very beginning when you were striking some of the
9 language and you struck 4.3.4; I’m assuming you replaced that language with
10 4.3.7, because I was going to ask you originally why did you strike that...
11 construction contractors use only low (inaudible) paint and coatings and as I
12 continue to read I wrote myself a note and I came over to the other side and it
13 says the applicant shall use zero volatile organic... was that why that was struck
14 and then that one was added in?

15
16 **SPEAKER GELLER** – Are you talking about the EIR Addendum or the original
17 West Ridge EIR?

18
19 **VICE CHAIR GIBA** – The original EIR; the approved EIR

20
21 **SPEAKER GELLER** – Yes, I think...

22
23 **VICE CHAIR GIBA** – Look I had a Draft; I had an EIR and an Addendum

24
25 **SPEAKER GELLER** – You had a lot of information, I will give you that. Yeah,
26 because it was usurped by a better mitigation measure is the answer to that
27 question.

28
29 **VICE CHAIR GIBA** – Okay and that’s kind of why I just want to confirm that, that
30 you’ve taken a very simplistic comment and you’ve written a very specific as to
31 the types of paints and everything that would have been used on that.

32
33 **SPEAKER GELLER** – Yeah and that was based on a comment letter that we
34 received on the Draft EIR and then it was reconsidered and changed.

35
36 **VICE CHAIR GIBA** – This is probably more a question for you folks but I was just
37 curious out there on Eucalyptus Avenue, but that was Eucalyptus South. Are you
38 going to extend Eucalyptus Avenue; is that going to stay closed; are you going to
39 change the name of that one?

40
41 **COMMUNITY & ECONOMIC DEVELOPMENT DIRECTOR TERELL** – In the
42 General Plan adopted in 2006 when Eucalyptus or “Fircalyptus” was realigned a
43 name was given to that stretch. There hasn’t been a formal change yet but at
44 some point in time we’ll need to initiate that to change that stretch, the existing
45 Eucalyptus to Encilia (?).

1 **VICE CHAIR GIBA** – I saw that actually in there somewhere, but I didn't see it.
2 Oh yeah, there it is... additional requirements including a three year
3 establishment period for the replacement habitat, regular trash removal, native
4 plant vegetation varies... I just want to make a comment. You are doing better
5 here than it is now, thank you, because the way it looks now, you are holding
6 them to a higher standard here than it currently is in that whole native area for
7 that wash area, so I just want to compliment you on that, that you are going a
8 little bit farther on that one.

9
10 **CHAIR VAN NATTA** – And I want to compliment you on the ability you have of
11 finding things that none of us would probably have questioned. But that's a good
12 thing.

13 **VICE CHAIR GIBA** – I didn't do spelling questions this time.

14
15 **CHAIR VAN NATTA** – That's true.

16
17 **COMMISSIONER LOWELL** – I have one final comment. I was wondering if the
18 developer or the City had even looked into the idea of using alternate fuels for
19 the trucks or the short trip trucks on site; little shuttle trucks moving the tractor
20 trailers around from place to place?

21
22 **SPEAKER GELLER** – It is not a mitigation measure.

23
24 **COMMISSIONER LOWELL** – No it's not, but it's a nice thing to do

25
26 **SPEAKER GELLER** – Yeah I'd have to refer to the developer

27
28 **COMMISSIONER LOWELL** – I do know that some of our warehouses that are
29 being built on the north side of Perris on our southerly border between the two
30 Cities are using electrical vehicles on site and some natural gas vehicles and it's
31 just a...

32
33 **SPEAKER GELLER** – One of the things that is unique about this project is that
34 every dock door contains plug ins, so the idling issue and there are requirements
35 from California Resources Board about idling the trucks, but since there is a
36 refrigerating component to this project, there is going to be plug ins at every one
37 for the auxiliary units, so I think that was a real positive step in terms of
38 addressing that issue. In terms of yard horses; I'm not sure how Aldi does this,
39 so I'll defer to that.

40
41 **CHAIR VAN NATTA** – Any other questions?

42
43 **SPEAKER MCGEE** – Brian McGee, National House Coordinator for Aldi...
44 Thank you again for your time tonight. I believe the yard truck; we are required
45 for that to be on alternate fuel. I believe that is one of the mitigation measures
46 that was required, but everything else will be looked at as we come out here.

1 There are a lot of mitigation measures on this that are already put in place from
2 previous agreements that were committed to 100 percent to following and as we
3 come out we'll continue to look to do the right thing. But as far as any other
4 commitments at this point it's hard to say as we're trying to get to the project off
5 the ground and make sure that we understand and meet all the requirements that
6 have been placed on the project at this point.

7
8 **COMMISSIONER LOWELL** – Okay I appreciate it.

9
10 **VICE CHAIR GIBA** – One tiny question

11
12 **CHAIR VAN NATTA** – One more question?

13
14 **VICE CHAIR GIBA** – Just one

15
16 **CHAIR VAN NATTA** – Okay

17
18 **VICE CHAIR GIBA** – It's a curiosity more than anything else and please I'm not
19 trying to muddy the water here in any way shape or form but I was curious
20 because there were comments in the EIR about finding other and a letter that
21 was written about finding other locations for your site that would be appropriate.
22 There have been a lot of arguments about the east side having warehouses and
23 there's a lot of approved warehousing that has not been filled on the west side by
24 the 215 specifically and you know there are some that seem to fit the same
25 standard. What was your purpose for considering your warehouse structure in
26 this specific location versus looking for something pre-existing along the 215
27 corridor?
28

29 **SPEAKER GELLER** – Let me make a couple of comments and then turn it over
30 to Aldi. The first comment is that the original West Ridge EIR had an exhaustive
31 alternative of site analysis discussion in there as required by CEQA and so that
32 was it. I think the direct answer and I don't want to put words in their mouth but
33 the direct answer is they were looking for an approved site and this site is an
34 approved site and so they are trying to make their building fit on an existing
35 project that you know has already been approved. The question you are asking
36 is really a question that should have been asked to Ridge and I think it was
37 asked during the Public Hearing process of how did they select this location and I
38 think and I can't recall exactly what the answer was, but it had to do with serving
39 the 60 corridor and the availability of properties that weren't in use or in process
40 along the 215 that there are a number of; there aren't a lot of properties that are
41 available along the 215 corridor. So I think that was kind of a combo answer.
42

43 **VICE CHAIR GIBA** – Is that the answer?

44
45 **SPEAKER GELLER** – That's my final answer
46

1 **VICE CHAIR GIBA** – They’re jumping up there really fast, so I thought maybe he
2 got it; he nailed it for you; right; okay

3
4 **COMMISSIONER LOWELL** – The other thing that I was thinking about
5 Commissioner Giba is that it’s a refrigerated building and I think it’s easier to
6 build to suit as opposed to retrofitting an existing building when it’s refrigerated
7 because you have to reinforce the roof for the air conditioning unit, so I think it’s
8 just a better fit to build to suit than to move into...

9
10 **VICE CHAIR GIBA** – It makes logical sense. Thank you Brian.

11
12 **CHAIR VAN NATTA** – Okay do we have someone prepared to... oh we have
13 another Speaker. I just saw that pop up.

14
15 **INTERIM PLANNING OFFICIAL ORMSBY** – There are two other speakers
16 actually.

17
18 **CHAIR VAN NATTA** – Okay, somehow my little screen on the side disappeared
19 but I did have this little thing that popped up in the middle, so we have a speaker;
20 Tom Thornsley.

21
22 **SPEAKER THORNSLEY** – Good evening Commissioners. Not to irate anybody
23 but I am happy the project was appealed. If I could afford it, I probably would
24 have done so myself because a project of this magnitude really should never
25 have gotten the green light to be administratively modified; not at the level it was.
26 It’s more than a 10 percent reduction, 300 percent increase in the office area.
27 The entire building looks different than what you saw originally and since you
28 were the original body that this had to go to, the City really should require it to at
29 least come back to you to give it your blessing again and hear out what is being
30 changed so you get a better understanding of it, especially now that know who is
31 going to be in it, you know what intensity of use it would be, you can understand
32 the whole range of it. I guess the City Council approved a MOU; gave them the
33 permission to give it to Staff to administratively handle it and I’d really hope in the
34 future that Council requires that if somebody is going to do some modifications to
35 a building, it comes back to the body who initially had jurisdiction over it and not
36 send it somewhere below you for that, at least not with what I think are the
37 requirements here. I did mention the stuff about the fencing. I think my
38 comments might have been misunderstood; I might have misunderstood it
39 thinking the fence around the detention basin was going to be a wrought iron
40 fence. It was going to look like that detention basin was going to look caged in.
41 If it’s just going to be the split rail and then from there the building or screen wall
42 is going to be a grassy area, that would look nice, so I don’t have any issues I
43 guess with that idea.

44
45 One of the things that I’ve harped on in the past is what be the lack of a
46 significant entry statement to buildings. I finally got to look at a little more decent

1 rendering and there is some improvement to what is there. I would have hoped
2 that building that needed 55,000 square feet of office space and potentially 300
3 or more employees and going to be a corporate point of contact for the west
4 coast, would have done something more significant, more grandiose and I really
5 wish this Commission and the City Staff would require something of a much
6 greater level for any speculative building that comes in and if the future tenant
7 wants to modify that a bit, fine, but we've failed to get hardly anything except for
8 parking stalls right for most of our buildings. The roof mounted equipment, John
9 alluded to the fact that some portions of the building can go higher and that's
10 okay. That is an acceptable issue on your building. This is rooftop equipment.
11 This is going to be screened walls if I read the plans right, there are just going to
12 be metal fabricated boxes up on the roof. They will be extremely visible. They
13 will not meet the intent of what I believe the City should have or what the City's
14 intention is about screening rooftop equipment, parapet height on building will be
15 useless because the whole crown of the roof will likely raise these things up so
16 high. If you look at the color renderings that the Architect brought in, it is very
17 obvious you can't miss these things. There will be quite a number of big boxes
18 up on the roof and because they don't appear to be screened with material
19 consistent with the building, they are simply going to look like planted boxes up
20 on there. There are not appearing to be an architectural element of the building
21 that is allowed to go over that height. If there is a time clock, I don't see it up
22 here.

23

24 **CHAIR VAN NATTA** – It's disappeared from mine

25

26 **INTERIM PLANNING OFFICIAL ORMSBY** - It's disappeared from mine as well
27 so my apologies

28

29 **SPEAKER THORNSLEY** – Somebody just keep my on track. I try to watch that
30 little number down there. I really think there needs to be better screening along
31 the freeway. I don't know exactly what the grading plan has, but if it is anything
32 like where the Sketchers building is, you've got a few feet at level grade and then
33 it plummets down into the site and very little opportunity for the screening to
34 actually be an effective... to be effectively screened which you are trying to do
35 out there.

36

37 **CHAIR VAN NATTA** – I am going to ask you to wrap it up now.

38

39 **SPEAKER THORNSLEY** – Okay, I think my other comments were there. I hope
40 all of you saw what they were that I wrote before. I hope you consider this.
41 Thank you for your time.

42

43 **CHAIR VAN NATTA** – Thank you. We have another Tom on the docket... Tom
44 Jerele.

45

1 **SPEAKER JERELE** – Tom Jerele speaking on behalf of myself. Do we have a
2 three minute spot or five minutes?
3

4 **CHAIR VAN NATTA** – Three minutes
5

6 **SPEAKER JERELE** – Okay, that’s what I thought. Thank you. Madam Chair,
7 Commissioners and members of Staff and the public and the Applicant both here
8 in the chambers and watching at home. I am in favor of the project, but I and I
9 think those that are local know Mr. Thornsley and I might be on the same page
10 on a lot of issues but I think he came up with a lot of good constructive
11 suggestions for the project and I think it should be taken to heart. I’ll come back
12 to them in a minute, but I’ve had the benefit to have kind of an inside look or
13 behind the scenes look at this project. I knew the previous developer Mr. Rice
14 and I’ve seen him as a very forthright man and very supportive community efforts
15 here and I also have a cousin who lives in Chicago who shops in Aldi stores, so I
16 know a little bit about their retail side. The number one reason I’m in favor of the
17 project is it is very, very important that we say welcome to our corporate
18 investors in this community and the employment base they bring. I think it’s very,
19 very important.
20

21 Over the last year I’ve had the chance to chat with some of the local realtors on
22 the housing market. Things are definitely on the upswing and I mean they’re not
23 rip-roaring. It’s not like the crazy mid 2,000’s and I don’t know if that’s a healthy
24 thing or necessarily want, but there seems to be a good healthy growth and for
25 the part of that is from the jobs growth that we’ve had in the last year and things
26 on the horizon and projects like this. I think it all trickles down and contributes to
27 a better bottom line. But going back to recommendations for the project, I take
28 very much to heart about the freeway frontage. I do look at the elevations. I
29 think one of the number one concerns should be what we’re looking at from the
30 60 freeway and I’ll remind this company, this is your corporate headquarters
31 which is outstanding, you know you’ve got a lot of traffic going up and down that
32 road and you’ve also got a chance to show your building off, you’ve got your
33 product; your brand if you will and the discussion of the hvac equipment on the
34 roof there; yeah they’re big and I think some missed opportunities. I’m a whole lot
35 more liberal when it comes to what people can do with it. I wouldn’t mind some
36 signage or some logos up or maybe some lighting.
37

38 You know it just used to be big clunky buildings and you know we’ve made some
39 beautiful skylines throughout this country by lighting them up and doing some
40 creative things, so I think there could be some opportunities there and I would
41 implore the Commission and encourage Staff to work in that direction. I
42 especially like the fact of making trails accessible to the project especially with
43 the corporate headquarters. I’ll remind not only the applicant but the John Q.
44 Public out there that those multi-use trails are not just horse trails. Anybody can
45 walk on them; run on them. You know there is a lot of opportunity there, so good
46 healthy things. It’s a good way to access some other parts of the community on

1 foot instead of getting in your car and I think that provides for healthy corporate
2 environment. Oh and finally the detention basin... I think we should max
3 out...you know I've seen some really nice ones; small apartment project over on
4 Hemlock I think and it was first ones to have detention basins and boy they did a
5 good job. It's the section between Heacock and Pigeon Pass and it looks...you
6 wouldn't even know it's a detention basin they way they landscaped it out, so I
7 think there is good opportunity. I really wish they had two instead of one big one,
8 but I think there are missed opportunities not only here but on other projects. So
9 that's pretty much my comments and I thank you.

10
11 **CHAIR VAN NATTA** – Thank you very much. Do we have any other Speakers?
12

13 **INTERIM PLANNING OFFICIAL ORMSBY** – There are no additional slips.
14

15 **CHAIR VAN NATTA** - No additional slips; I see nobody coming to the
16 microphone over there. Okay at this point we'll go into Commissioner Comments
17 on it.
18

19 **COMMISSIONER SIMS** – Do we need to make a recommendation to get into
20 discussions.
21

22 **CHAIR VAN NATTA** – I think we'll do our discussion and then...
23

24 **COMMISSIONER SIMS** – I tend to support the Staff recommendations on this
25 and for several reasons. One is the original project was reviewed back in 2011.
26 CEQA was approved and if there were any challenges to the approval in the
27 CEQA document for the original project, they should have challenged it and
28 should have been answered between now and the time that has passed. The
29 second reason is the proposed amendment to the Plot Plan and also to the EIR
30 that is already approved, appears to be consistent and appropriate, especially
31 given the analysis that reflects lower greenhouse gas. The traffic improvements
32 appear adequate. I live very, very close to this on the other Eucalyptus right
33 around over there and the traffic signals seem like an appropriate mitigation. It
34 should help congestion at that intersection. I like the fact that it's an increase in
35 office jobs. It looks like a net of 200 additional new jobs in the City which it
36 desperately needs and I think that also this project is consistent with the State
37 Route 60 Overlay which we recently looked at and Council just approved I think
38 this week, so I like the project's reduction in square footage, I think the mitigation
39 looks appropriate and it looks like a good project.
40

41 **COMMISSIONER LOWELL** – I don't know that I could add anything more than
42 what my fellow Commissioner just said. He pretty much nailed the nail on the
43 head right there. The project is an outstanding project. It is a remarkable
44 improvement on what's out there, which is nothing. Everything that I see on the
45 documents that you've provided, I think the City has done a phenomenal job
46 dotting all their "I's" and crossing al their "T's" with their requirements and setting

1 up requirements and basically getting this project to as pristine of a position of a
2 position that it is. I am fully in support of this project and look forward to
3 welcoming you guys to the community.
4

5 **COMMISSIONER BAKER** – You know I think we’re real lucky to have Aldi Foods
6 to consider Moreno Valley for their regional headquarters here on the west coast.
7 They are a good operation. One thing, I have a problem here is when people file
8 appeals on a situation like this and don’t even have the decency to show up to
9 the meeting, I really take issue with that and maybe they’re not required to but I
10 really think if somebody felt that way about this and they wanted to appeal it, at
11 least they would have the wherewithal to show up and stand up for their side of
12 the program, so I’m in favor of this 100 percent. I know there are some things
13 that some people probably don’t totally agree with but I think right now in this
14 economy and bringing these kind of jobs to town I’m for it 100 percent. Thank
15 you.
16

17 **COMMISSIONER RAMIREZ** – Again I’d like to thank Aldi for bringing this project
18 to Moreno Valley. We finally have a big time player here. San Bernadino has
19 Stater Bros., Ontario has Cardena’s and we will now have Aldi. We thank you for
20 the opportunity of bringing it here and I’m ready to vote this project through
21 myself.
22

23 **VICE CHAIR GIBA** – Well said. I couldn’t add anything to it either. Sorry I
24 picked you apart but it is just kind of part of what I do. Interesting on the EIR;
25 there was like; I’m looking at almost what 20 plus letters and on the amended
26 there was only Mr. Thornsley that showed up. To me that’s important because if
27 it’s not that important to come out here or to send another follow-up letter or to
28 complain even more about it, then I guess the City and Aldi’s has answered all
29 their questions and they are satisfied. One thing nobody mentioned was I love
30 your color scheme. It fits out there and it looks a lot nicer than the big white
31 building to the east of you, so I like the plan. There were some things that some
32 people mentioned and you might want to take those into consideration and I’m
33 sure you probably will. It is your corporate headquarters and is the entrance; the
34 eastern entrance into our City and I’m proud to have you here and I’m hoping
35 you’ll put Aldi’s up at the old Ralph’s... no I’m sorry. Thank you very much.
36

37 **CHAIR VAN NATTA** – Maybe we can find somebody to take over all those Fresh
38 and Easy Buildings now. Okay, as I mentioned when we began talking about
39 this, I was on the Planning Commission when we voted to not approve the
40 original project. The two biggest issues that we have, have been pretty much
41 solved and that now we know who the tenant is going to be and the specific
42 figures on how that effects the environment and the neighborhood and the job
43 market and everything and then also the issue of preventing truck traffic from
44 going south on Redlands Boulevard and those were our big issues. I’m glad to
45 see they have been addressed and this looks like a good project and I’m looking

1 forward to welcoming our neighbors. Would someone like to make the
2 recommendation?

3
4 **COMMISSIONER SIMS** – Alright, I make a recommendation or I make motion
5 that Staff recommends that the Planning Commission **APPROVE** Resolution No.
6 2014-02 and thereby:

- 7
8 1. **RECOGNIZE** that an Addendum to the original West Ridge Commerce
9 Center project Environmental Impact Report was prepared for Amended
10 Plot Plan P13-111. The Addendum concludes that implementation and
11 operation of the Amended Plot Plan will not result in any significant new,
12 different, additional, or substantially increased environmental impacts than
13 were previously considered and addressed in the Certified EIR. See copy
14 of the attached Addendum included as Exhibit A; and,
15 2. **APPROVE** Amended Plot Plan P13-111, subject to the attached
16 conditions of approval included as Exhibit B.

17
18 **VICE CHAIR GIBA** – I'll second that.

19
20 **CHAIR VAN NATTA** – Okay we have a motion and a second. All in favor?

21
22 **INTERIM PLANNING OFFICIAL ORMSBY** – Excuse me Chair. We need to do
23 a roll call vote.

24
25 **CHAIR VAN NATTA** – Oh the roll call vote? Okay, we'll do that.

26
27 **INTERIM PLANNING OFFICIAL ORMSBY** – Yes, that's required now

28
29 **COMMISSIONER SIMS** – Yes

30
31 **COMMISSIONER LOWELL** – Yes

32
33 **COMMISSIONER BAKER** – Yes

34
35 **COMMISSIONER RAMIREZ** – Yes

36
37 **VICE CHAIR GIBA** – Yes

38
39 **CHAIR VAN NATTA** – Yes. The Staff wrap up on this. What happens next?

40
41 **INTERIM PLANNING OFFICIAL ORMSBY** – The Planning Commission's action
42 is final unless an appeal is filed within 15 calendar days.

43
44 **CHAIR VAN NATTA** – Thank you.

45
46



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Chris Paxton, Administrative Services Director

AGENDA DATE: February 25, 2014

TITLE: MONTHLY REPORT: MORENO VALLEY ANIMAL SHELTER ADOPTION RATE

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Receive and file the Monthly Report: Moreno Valley Animal Adoption Rate for the period of January 1 to January 31, 2014.

SUMMARY

The City Council has challenged staff to increase adoptions and decrease the euthanasia rate at the Moreno Valley Animal Shelter. Ongoing evaluation of programs and services, along with increasing public awareness will remain key elements to our success in increasing adoptions of homeless pets from our shelter.

DISCUSSION

As a follow up to the December 18, 2012 City Council Study Session on Animal Shelter operations, Mayor Owings asked that monthly staff reports be prepared to keep the public informed of the City's progress and the ongoing need to increase pet adoptions and other programs to reduce the number of homeless animals euthanized.

The January 2014 reports reveal a Placement (Return to Owners, Transfers and Adoptions) Rate of 59%, representing a very minor decrease over last year's Placement Rate by only 1%. Other factors which are noteworthy include:

- The number of dogs taken in at the Shelter during January 2014 declined by 12% as compared to January 2013;

- The number of dog adoptions during January 2014 increased by 56% as compared to January 2013;
- The number of cats taken in at the Shelter during January 2014 increased by 44% as compared to January 2013, largely due to an illegal cattery involving feral cats;
- The number of cat adoptions remained flat with no increase or decrease in January 2014 as compared to January 2013;
- The number of dogs euthanized increased in January 2014 by 13% when compared to January 2013;
- The number of cats euthanized increased in January 2014 by 123% as compared to January 2013.

On January 28th we received an official announcement from the ASPCA that Moreno Valley was once again accepted as one of 50 animal shelters nationwide to compete in the 2014 ASPCA Rachael Ray \$100K Challenge. Moreno Valley will join 5 other California shelters and is the only Animal Shelter in the Inland Empire to compete during this last year of the Challenge. Throughout the months of June, July and August 2014, each competing shelter must save more dogs, cats, puppies and kittens than they did during the same three months in 2013. This is our second year in the competition and we are pulling out all the stops to win the Challenge.

Upcoming Events – February and March 2014

- “Sweet Paws” Valentine’s Pet Adoption Event, February 14th to February 16th
- Low Cost Rabies Vaccination & Dog Licensing Clinic – Saturday, March 1st 8:30 – 11:30 a.m.
- St. Patrick’s Day Pet Adoption Event – March 15th to March 17th
- “Pets on Parade Expo” City of Perris, Saturday, March 29th at Paragon Park

CITY COUNCIL GOALS

Positive Environment. Create a positive environment for the development of Moreno Valley’s future.

ATTACHMENTS

Attachment 1 – Moreno Valley Animal Shelter Intake / Disposition Report – January 2014
 Attachment 2 – Moreno Valley Animal Shelter – January 2014 – Euthanasia Statistics
 Attachment 3 – PowerPoint Presentation

Prepared By:
 Steve Fries
 Animal Services Division Manager

Department Head Approval:
 Chris Paxton
 Administrative Services Director

**Moreno Valley Animal Shelter
Intake / Disposition Report –January 2014
Report Date 2/1/2014**

Intake	Dogs	Cats	Other	Total
Owner Surrender	35	43	0	78
Live Stray	422	139	11	572
Confiscated (Cruelty/Neglect/Aggressive)	16	0	0	16
Returns	6	1	0	7
Quarantine	3	1	0	4
DOAs	44	32	12	88
On-Hand at Shelter 1/1/14	142	22	0	164
Total	668	238	23	929

Disposition	Dogs	Cats	Other	Total
On – Hand At Shelter 2/1/14	162	44	3	209
Escaped/Stolen	0	2	0	2
DOAs	44	32	12	88
Died in Kennel	1	0	0	1
Died at Vet	0	0	0	0
Foster	6	1	0	7
Euthanized	113	136	4	253*
Transfer	1	0	1	2**
Return to Owners	100	6	0	106**
Adopted	241	17	3	261**
Total	668	238	23	929

-1263-

Summary Statistics: The statistics below reflect outcomes on the number of pets placed vs. those which could not be adopted. Figures are based upon the total number of pets available for placement, and does not reflect the number of animals which remained on-hand, or those which were deceased upon arrival and/or while under care. These categories are marked with * above. For the month of January 2014, the number of pets upon which statistics are calculated totaled: 622

*Euthanasia Rates: 41% (253) See Detailed Report
 Unadopted: 0% (0)
 Contagious Disease 34% (86)
 Medical/Behavioral/Other: 66% (167)

**Placement Rate: 59% (369) Reflects Return to Owners, Transfer, Adopted

This page intentionally left blank.

Moreno Valley Animal Shelter
January 2014 – Euthanasia Statistics

Outcome Sub-Type	Dogs	Cats	Others	Total
Medical/Vet Rec.	36	2	2	40
Owner Requested	0	0	0	0
Contagious Disease	53	32	1	86
Feral	0	99	0	99
Aggressive Behavior Observed	24	3	0	27
Not Adopted*	0	0	0	0
Other**	0	0	1	1
Total	113	136	4	253

*Not Adopted: euthanized for considerations such as placement potential, time in shelter, humane considerations.

** Other-Cats/Dogs/Others: too young/newborns-impounded w/o their mothers per Food & Agricultural Code 17006.

This page intentionally left blank.

Animal Shelter Pet Adoption Events

Upcoming Events February and March 2014

- “Sweet Paws” Valentine’s Day
 - Friday, February 14, Saturday, February 15 and Sunday, February 16
- Low-Cost Rabies Vaccination & Dog Licensing Clinic
 - Saturday, March 1, 2014 from 8:30 am to 11:30 am
- St. Patrick’s Day
 - Saturday, March 15, Sunday, March 16 and Monday, March 17
- “Pets on Parade Expo” Paragon Park - City of Perris
 - Saturday, March 29, 2014 from 10:00 am to 3:00 pm

Moreno Valley Second Year Participant



- Selected to participate in the 2014 ASPCA Rachael Ray's \$100K Challenge
- One of five other animal shelters in California to participate
- The only animal shelter in the Inland Empire to participate
- Final year of the ASPCA \$100K Challenge

Animal Shelter Offers Military Discount Every Sunday

Honoring those who Serve

Military Discount



**Military Discount
Every Sunday**

**Moreno Valley
Animal Shelter
14041 Elsworth St.**

**Special discounted
adoption rates.**
Dogs and puppies \$50
Cats and kittens \$25
Includes spay or neuter surgery,
vaccines, HomeAgain Microchip.

*Pets adopted that
have not been altered,
will stay for surgery and will be available
to go home the afternoon
of the day surgery is scheduled.*

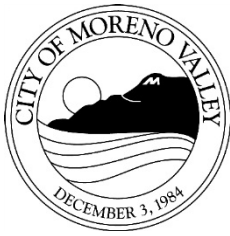

MORENO VALLEY
ANIMAL SERVICES

FOR MORE INFORMATION CALL 951.413.3790
OR VISIT WWW.MOVAL.ORG

-1269-

Item No. G.2

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Michelle Dawson, City Manager
Suzanne Bryant, City Attorney

AGENDA DATE: February 25, 2014

TITLE: DIRECTION TO STAFF REGARDING PROCESS TO CALL FOR AN ELECTION TO CREATE THE OFFICE OF A DIRECTLY ELECTED MAYOR AND APPROVAL OF RELATED RESOLUTION

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Determine whether to call for an election to create the office of a directly elected Mayor for the City of Moreno Valley, and if so
2. Determine whether the City should be divided into four (4), six (6) or eight (8) new City Council Districts to submit to the voters along with the question of creating the office of directly elected Mayor.
3. Authorize the proposed redistricting of the City into four (4), six (6) or eight (8) City Council Districts; authorize the City to execute a contract for redistricting consultant services; and authorize the Chief Financial Officer to make appropriation changes as may be required.
4. Direct staff to prepare all necessary documents and ordinances for the City Council to call an election on the matter of a directly elected Mayor and four (4), six (6) or eight (8) City Council Districts for the November 4, 2014 municipal general election.
5. Adopt Resolution No. 2014-18. A Resolution of the City Council of the City of Moreno Valley, California, relating to the Direct Election of the Mayor and Reapportionment of Councilmanic Districts; and authorizing the drafting of Redistricting Plans.

SUMMARY

On February 2, 2013, the City Council held a public workshop and discussed a ballot question through which Moreno Valley voters could decide whether to create the position of directly elected Mayor. This report presents the process required to place the issue of a directly elected mayor on the November 2014 ballot and a timeline of the procedures to call for such an election. This report also seeks specific policy direction on whether to move forward at this time, and approval of the follow-up actions which would be required.

DISCUSSION

On July 10, 1984, the Riverside County Board of Supervisors adopted Resolution No. 84-285, providing for the Moreno Valley Reorganization to be submitted to the voters as Measure F at the November 6, 1984, Riverside County general election. That reorganization provided for the incorporation of the City of Moreno Valley with a five (5) member City Council elected at large, and the formation of the Moreno Valley Community Services District. Also on the ballot at that election was Measure G, which asked the voters to decide whether future members of the City Council would be elected by or from districts. Election “by districts” means that each Council Member must reside in a specific district and can only be elected by voters who reside within that same district. Election “from districts” means that each Council Member must reside in a specific that district, but are elected by all the voters in the City, regardless of the district within which voters live.

Measure F passed with a majority vote establishing the City of Moreno Valley and the Moreno Valley Community Services District effective December 3, 1984. Five (5) Council Members were elected at large and became the first City Council of the City of Moreno Valley. Measure G passed with a majority of voters deciding that all future City Council Members would be elected by districts.

Pursuant to Government Code section 36801, all Moreno Valley City Councils since incorporation have selected the Mayor from among their members. This is the standard method among general law cities in California. Government Code section 36801 states in part that: “The City Council shall . . . choose one of its number as Mayor, and one of its number as Mayor pro tempore.”

A general law city is, however, permitted to have a Mayor that is directly elected by the voters if certain procedures are followed. Government Code section 34900 prescribes parameters for an elective Mayor.

At the November 2, 2010, municipal general election, the City Council placed two advisory ballot measures before the voters. The first advisory ballot measure asked “Do you support changing to an elected Mayor rather than one appointed by the City Council?” The second advisory ballot measure asked “Whether or not you support

changing to an elected Mayor, should the City Council call a binding election for voters to decide the issue?" Both measures received a majority "yes" vote.

Staff is now seeking direction from the City Council as to what, if any, follow-up action is to be taken on the issue of a directly elected Mayor and when that action is to be taken.

Procedure for Changing to Elected Mayor:

To change from the current method of the City Council selecting a Mayor to election of the Mayor by the voters, the law requires that certain ballot questions and an ordinance be submitted to the voters for their approval. Govt. Code § 34871 *et seq.*; § 34900 *et seq.* Electors of a general law city may determine whether to have a directly elected Mayor and also determine the length of the term of office of such elected Mayor.

At the same election, the City Council must also present an ordinance to the voters for approval. That ordinance "shall state the number of legislative districts, describe the boundaries of each, number them, and state whether members of the legislative body shall be elected ... by or from districts except for an elective mayor," who shall be elected at large. Govt. Code § 34871-34872.

The ballot measures for the election on the issue would be in substantially the following form:

Shall members of the City Council of the City of Moreno Valley be elected by districts described in Ordinance No. ___ and the mayor of the City of Moreno Valley be elected on a citywide basis by the voters of the entire city?	YES
	NO

Shall the term of office of Mayor be four years?	YES
	NO

Shall the term of office of Mayor be two years?	YES
	NO

Because any proposed ordinance amends the action taken by the voters at the November 6, 1984 election where County Resolution No. 84-285 was approved, and prior to being submitted to the voters for approval, the proposed ordinance must first be

submitted to the Planning Commission to make the following findings by resolution within ninety (90) days of submission of the proposed ordinance to the City Clerk:

- (1) The boundaries of each proposed district close.
- (2) No legislative district is eliminated prior to the termination of office of the sitting Council Member from that district; and
- (3) The effect of the proposed redistricting does not result in a greater number of Council Members serving concurrently than authorized by the proposed ordinance [Govt. Code §§ 34875-34876].

Following the action by the Planning Commission, the proposed ordinance will be brought to the City Council, along with proposed ballot measures, for direction to submit the measures to the Riverside County Registrar of Voters to be included in the next municipal general election, or special election held for that purpose. The City Council must take this action no later than 88 days prior to the date of the election. Govt. Code § 34871; Elections Code § 9222.

Government Code section 34902(a) specifies that “[i]f a majority of the votes cast on the proposition is for it, the office of Mayor shall thereafter be an elective office.” If the ballot measure for the ordinance passes by a majority vote, at the expiration of the terms of office of the currently serving Council Members, or as otherwise provided in the ordinance, newly elected Council Members and the Mayor will be elected as provided for in the ordinance. Govt. Code § 34878.

Powers and Duties of an Elected Mayor:

The City of Moreno Valley is a general law city. Cities organized under the general laws of the state of California are subject to all constraints imposed by those laws. This means that general law cities only have those powers and authorities expressly conferred by the state constitution or state legislature, together with such powers as are “necessarily incident to those expressly granted or essential to the declared object and purposes of the municipal corporation.” Only charter cities can grant powers to the office of Mayor that exceed those expressly provided in state law. Only charter cities can adopt the Mayor-Council form of government and expand the powers and duties of the office of Mayor.

The office of Mayor in a general law city has only those powers granted and conferred by state law. The powers of the office of Mayor in a general law city are set forth in Government Code sections 40601 *et seq.* These powers are limited to:

- Presiding over ceremonial functions;
- Presiding over meetings of the agency;
- Signing official documents;
- Administering oaths;
- Appointing members of boards and commissions, as provided in Government Code section 40605 which states “[W]ith the approval of the City Council , [a

Mayor] shall make appointments to boards, commissions and committees unless otherwise specifically provided by statute.”

With specific regard to appointments, an elected Mayor has the authority to appoint, subject to the City Council’s “right to reject Mayoral appointments.” 81 Op. Atty. Gen. Cal. 75 (1998). These appointments include “regional boards, commissions and committees” and all “appointments to City Council subcommittees.” *Id.* The City Council may withhold approval of an appointment submitted to it by the Mayor, but may not dictate to the Mayor who the appointee must be. An elected Mayor’s power also extends to the appointment of members of the City’s Planning Commission, subject to the approval of the City Council. 89 Op. Atty. Gen. Cal. 176 (2006). Moving to an elected Mayor system would necessitate a change in Section 2.06.010 of the City’s Municipal Code, as that section currently states that appointments are made by the City Council alone. Beyond the powers discussed above, the office of Mayor has all other powers and duties of a Member of the City Council.

Per Government Code section 34903, therefore, an elected Mayor in a general law city “...is a member of the City Council and [only] has . . . the powers and duties of a Member of the City Council.” With the exception of appointive authority as outlined above, an elected Mayor has no powers beyond those exercised by an appointed Mayor. Govt. Code §§ 40601-40604.

Compensation:

An elected Mayor remains a member of the City Council and, as such, receives the same compensation as any other Member of the City Council. An elected Mayor may, but is not required to, receive compensation in addition to the compensation established for City Council members. Govt. Code § 36516.1. Such additional compensation may be provided by an ordinance adopted by the City Council or by a majority vote of the electors voting on the proposition at a municipal election. Additional compensation established by ordinance of the City Council may be increased or decreased by ordinance of the City Council. Additional compensation established by a vote of the electors can only be changed by a vote of the electors.

If the City Council desires to have additional compensation for an elected Mayor, staff would require specific direction as to the type and amounts of such additional compensation in order to prepare a proposed ballot measure for voter approval or a proposed ordinance for Council approval (following the election). If the City Council does not desire to have additional compensation for an elected Mayor, no further direction is needed on this matter.

Council Districts and Mayor & Council Member Elections:

In order to prepare a proposed ordinance for submission to the voters, staff requires City Council direction as to how many City Council districts the City should have if the

voters approve changing to an elected Mayor. The boundaries of proposed districts are to be included in the ordinance and ballot measures.

General law cities proposing to have an elected Mayor are to have four (4), six (6) or eight (8) City Council districts, per Government Code section 34871. The City of Moreno Valley currently has five (5) City Council districts.

If the City Council submits four (4) City Council districts for voter approval at the next municipal general election, and the office of elected Mayor is created by a majority vote, an existing Council position would have to be replaced by the office of Mayor. Per Government Code section 34902(a), the Council must designate one of the current City Council seats to be filled at the next succeeding municipal general election (2016) as the office of Mayor to be filled at that election. As the districts exist now and if there are no changes, existing Council Districts 1, 3, and 5 will be filled at the 2016 municipal general election. If the voters adopt four (4) Council Districts and an elected Mayor, voters will vote to fill the office of Mayor and two Council districts in 2016.

If the City Council submits six (6) City Council districts to the voters for approval at a 2014 municipal general election, then the new City Council seat will be added at the next succeeding municipal general election (2016), along with the office of elected Mayor. City Council Districts 1, 3, and 5 (with re-drawn boundaries) will also be filled at that 2016 election.

If the City Council submits eight (8) City Council districts to the voters for approval at a 2014 municipal general election, then three (3) new City Council seat will be added at the next succeeding municipal general election (2016), along with the office of elected Mayor. City Council Districts 1, 3, and 5 (with re-drawn boundaries) will also be filled at that 2016 election.

The number of Council Members up for election at each municipal general election must be equalized pursuant to Government Code section 34906. If a City has an elected Mayor and the elections of the remaining Council Members for four-year terms are not evenly staggered, the City Council may, on a one-time basis only, and prior to the first day for circulating nomination papers for the municipal general election, designate one of the Council Member seats appearing on the municipal general election, other than the office of Mayor, to serve a two-year term until the next municipal general election. At all subsequent elections, that Council District seat shall serve a four-year term. Therefore, if the City Council directs that the City should have eight (8) City Council districts, then one of the City Council districts (perhaps a newly created City Council district) will have to be designated as a two-year term by the City Council prior to the first day for the circulation of nomination papers for the 2016 municipal general election for that City Council district. At the next succeeding municipal general election and thereafter, the Council Member from the City Council district so designated shall serve a four-year term.

The mayor will be elected every two (2) years at a municipal general election if the voters determine a two-year term, or every four (4) years at a municipal general election if the voters determine a four-year term.

Timing:

Once the redistricting is complete and approved by the City Council, staff can prepare an ordinance for submission to the Planning Commission. After the Planning Commission makes the findings required by law, staff will prepare all necessary documents and resolutions for the City Council to call an election on these matters. The City Council must adopt a resolution calling an election and submit the resolution, proposed ballot measures and ordinance to the Riverside County Registrar of Voters at least 88 days prior to the date of the next municipal general election. Elections Code §§ 9222-9223; 10403.

Below is a timeline of actions required to place such questions and ordinance on the November 4, 2014 municipal general election ballot. This schedule reflects requirements associated with the ballot measure process, as well as time required to develop a proposed redistricting plan.

Timeline To Place Measures On November 2014 Ballot

Date (Days Before Election)	Action Required By:	Description of Event or Deadline	Reference
February 25, 2014	City Council	Consider (1) whether to submit to the voters the question of creating the office of a directly elected Mayor; (2) determine whether the City should be divided into four, six, or eight Council districts (or defer this question until reviewing redistricting plans); (3) authorize redistricting into the appropriate number of Council Districts; and (4) authorize the City to execute a contract with a redistricting services consultant.	Gov't Code §§ 34870 <i>et seq.</i>
February 25 – April 8, 2014	Redistricting Services Consultant	Develop proposal to reapportion Council districts.	

April 8, 2014 (210)	City Council	Hold public hearing on redistricting services consultant's draft redistricting plans and citizen-drawn plans; order certain plans to be presented for final consideration at subsequent meeting.	Elections Code § 21601.1
April 2014	Redistricting Services Consultant	Analyze, for Council consideration, whole or partial plans submitted by the public at the April 8 th public hearing.	
May 13, 2014 (175)	City Council	View presentation of final redistricting plans; adopt Council resolution selecting a redistricting plan and directing staff to prepare final ordinance.	
May 27, 2014 (161)	City Council	Introduce and conduct first reading of ordinance with proposed Council districts.	
June 10, 2014 (147)	City Council	Adopt ordinance with proposed Council districts and submit ordinance to City Clerk.	
June 26, 2014 (131)	Planning Commission	<p>Within 90 days of receipt by the City Clerk:</p> <ul style="list-style-type: none"> • Examine ordinance and proposed Council districts as to the definiteness and certainty of the boundaries of the districts proposed; • Adopt Commission resolution making findings specified in Government Code § 34875. 	Gov't Code § 34874-34876

July 8, 2014 (119)	City Council	<p>Adopt Council resolution to:</p> <ul style="list-style-type: none"> • Approve the exact questions as they are to appear on the ballot; • Call the election; • Request that the County Registrar of Voters consolidate the election with the statewide General Election. 	Elections Code § 10403
July 22, 2014 (105)	City Attorney, City Clerk	<p>Date by which City Attorney shall prepare an impartial analysis of the question (if so requested by the City Council) and submit the analysis to the City Clerk.</p> <ul style="list-style-type: none"> ○ <i>City Clerk shall permit public examination of the analysis for 10 days after filing (July 23 – August 1, 2014)</i> 	Elections Code §§ 9280; 9295
July 22, 2014 (95)	City Council, Proponents, Opponents	<p>Suggested last date to file primary arguments for or against the question.</p> <ul style="list-style-type: none"> ○ <i>Statutory Deadline: 14 days after calling of election</i> ○ <i>City Clerk shall permit public examination of the primary arguments for 10 days after filing (July 23 – August 1, 2014).</i> 	Elections Code §§ 9282; 9286; 9295
August 1, 2014 (90)	City Council, Proponents, Opponents	<p>Suggested last date to file rebuttals to arguments.</p> <ul style="list-style-type: none"> ○ <i>Actual last date: 10 days after deadline to submit primary arguments</i> ○ <i>City Clerk shall permit public examination of the rebuttal arguments for 10 days after filing (August 2 – 11, 2014)</i> 	Elections Code §§ 9285; 9286; 9295

August 6, 2014	City Clerk	City Clerk transmits voter pamphlet materials to Registrar.	
August 2014	Registrar of Voters, City Clerk	Registrar will send draft voter pamphlet to City Clerk for approval.	
September 9, 2014 (56)	Registrar of Voters	Registrar's target date to print election materials.	Registrar of Voters
November 4, 2014 (0)	Registrar of Voters	Election Day	
November 1, 2016		If approved at 11/4/14 General Election, candidates for office of directly elected Mayor (and newly-drawn Council Districts) appear on General Election ballot.	

ALTERNATIVES

1. Direct staff to proceed with the process required to place the issue of a directly elected mayor on the November 2014 ballot, specifically to:
 - a) Determine whether to call for an election to create the office of a directly elected Mayor for the City of Moreno Valley; and if so
 - b) Determine whether the City should be divided into four (4), six (6) or eight (8) new City Council Districts to submit to the voters along with the question of creating the office of directly elected Mayor; and
 - c) Authorize the proposed redistricting of the City into four (4), six (6) or eight (8) City Council Districts; authorize the City to execute a contract for redistricting services; and authorize the Chief Financial Officer to make appropriation changes as may be required; and
 - d) Direct staff to return, for City Council deliberation and direction, proposed City Council Districts before adopting a reapportionment ordinance and submitting the ordinance to the Planning Commission for findings as required by law; and
 - e) Direct staff to prepare all necessary documents and ordinances for the City Council to call an election on the matter of a directly elected Mayor

and four (4), six (6) or eight (8) City Council Districts for the November 4, 2014 municipal general election.

2. Direct staff to take no further action on this matter.

FISCAL IMPACT

Costs:

1. Redistricting Costs:

Costs for consultant work to develop revised City Council districts are estimated at approximately \$26,000 - \$48,000 based upon the City's most recent redistricting process. The scope of these services will ultimately determine costs, and the extent to which they are consistent with the previous process. Updated projections can be developed as the scope of work is refined.

Because funding for a redistricting effort has not been included in the adopted Budget, staff has recommended that the Chief Financial Officer be authorized to make appropriation changes as may be required to obtain these specialized services.

2. Election Costs:

The Registrar of Voters has informed the City Clerk that election costs could be in the realm of \$45,000 - \$50,000.

3. New Council Districts and Elected Mayor Costs:

In 2010, City staff developed costs estimates for costs associated with the various scenarios. Attached hereto as Attachment 3 is the memo and table of proposed costs prepared by former Deputy City Manager Rick Hartmann in early 2010. This table is merely being provided to give the City Council some general idea as to the ongoing costs of the office of elected Mayor and a proposed increase of City Council districts. Attachment 2 to this Staff Report contains general estimates of one-time costs to make necessary improvements and on-going operational expenses.

NOTIFICATION

Posting of the Agenda.

ATTACHMENTS

1. Resolution Relating to the Direct Election of the Mayor and Reapportionment of Councilmanic Districts; and Authorizing the Drafting of Redistricting Plans
2. Table 1: Directly Elected Mayor Cost Estimates: One Time Costs; and Table 3: Directly Elected Mayor Cost Estimates: Operation Expenses
3. March 16, 2010, Memo Re Fixed and Operational Costs and Table of Estimated Fixed and Operational Expenses

Prepared By:
Suzanne Bryant
City Attorney

Concurred By:
Michelle Dawson
City Manager

RESOLUTION NO. 2014-18

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, RELATING TO THE DIRECT ELECTION OF THE MAYOR AND REAPPORTIONMENT OF COUNCILMANIC DISTRICTS; AND AUTHORIZING THE DRAFTING OF REDISTRICTING PLANS

WHEREAS, on November 6, 1984, voters approved Measure F, providing for the incorporation of the City of Moreno Valley with a five (5) member City Council elected at large; and

WHEREAS, on November 6, 1984, voters approved Measure G, providing that members of the City Council would be elected "by districts," meaning that each member of the City Council is elected by voters who only reside within each council district; and

WHEREAS, pursuant to California Government Code section 36801, the Moreno Valley City Council has selected the Mayor from among the members of the City Council; and

WHEREAS, California Government Code section 34900 *et seq.* authorizes the City Council to submit to the voters the question of whether the voters shall elect a Mayor and four (4) Councilmembers, and whether the Mayor shall serve a two-year term or four-year term; and

WHEREAS, on November 2, 2010, the City Council placed two advisory questions on the municipal general election ballot, the first of which asked voters if they support the change from an appointed Mayor to an elected Mayor, and the second of which asked voters if, whether or not they support such a change, the City Council should call a binding election to decide the issue, and a majority of voters voted "yes" on each question; and

WHEREAS, the City Council desires to place the question of the direct election of the Mayor and related reapportionment of councilmanic districts on the ballot in November 2014.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

SECTION 1.

The City intends to place before the voters of the City a measure concerning the direct election of the Mayor and reapportionment of councilmanic districts such that there are four (4) districts.

1
Resolution No. 2014-18
Date Adopted: February 25, 2014

SECTION 2.

In anticipation of placing a measure on the ballot concerning the direct election of the Mayor and reapportionment of the councilmanic districts, the process of redistricting the City of Moreno Valley into four (4) districts is hereby authorized.

APPROVED AND ADOPTED this 25th day of February, 2014.

Mayor of the City of Moreno Valley

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

Resolution No. 2014-18²
Date Adopted: February 25, 2014

RESOLUTION JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, do hereby certify that Resolution No. 2014-18 was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 25th day of February, 2014 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

(SEAL)

Resolution No. 2014-18³
Date Adopted: February 25, 2014

This page intentionally left blank.

TABLE 1
Directly Elected Mayor Cost Estimates:
One-time Costs

Mayor and City Council Offices
Improvements Necessary to accommodate
Scenarios

Scenario One:
Directly Elected Mayor
+ 4 Council Members

Scenario Two:
Directly Elected Mayor
+ 6 Council Members

Convert existing council conference room into one council office. Relocate one council office into vacant deputy city attorney office.	N/A	\$15,000
New office furniture.	N/A	10,000
Miscellaneous office equipment per new office: Computer, phone, "hold-up" button, etc., (estimated at \$5,000/office).	N/A	5,000
Utilize the existing dais and add two 33" work-areas/seating areas to match and modify dais platform.	N/A	N/A
Purchase new chairs (if necessary).	N/A	2,000
Rework or install cabling, wiring, video cameras, microphones, Mayor's control panel, etc.	N/A	10,000
Add new parking spaces and/or signs.	N/A	400
Total	\$0	\$42,400

TABLE 3
Directly Elected Mayor Cost Estimates:
Operation Expenses

Mayor and City Council Offices Operation Expenses (In today's dollars)	Existing Scenario	Scenario One:	Scenario Two:
	5 Council Members	Directly Elected Mayor + 4 Council Members	Directly Elected Mayor + 6 Council Members
	5	5	7
Mayor and City Council Salaries (including benefits): \$43,000 per position	\$ 215,000	\$ 215,000	\$ 301,000
Attendance at CSD meetings (48 per year each): \$4,800 per position	24,000	24,000	33,600
City Council discretionary funds: \$2,000 per position	10,000	10,000	14,000
Additional Mayor discretionary fund		5,000	5,000
Administrative Assistant(s): \$68,555 per position with benefits*	68,555	68,555	137,110
Executive Assistant: \$85,274 per position with benefits	85,274	85,274	85,274
SUBTOTAL	402,829	407,829	575,984
Net Change		5,000	173,155



MEMORANDUM

To: Robert Herrick, Special Legal Counsel
From: Rick C. Hartmann, Interim Assistant City Manager
Date: March 16, 2010
Subject: FIXED AND OPERATION COST ESTIMATES FOR THE PROPOSED DIRECTLY ELECTED MAYOR BALLOT MEASURE

BACKGROUND

As requested by the City Attorney's Office, I have worked with Staff to estimate the fixed and operation costs associated with the three directly elected Mayor scenarios to be considered by the City Council at its April 20 Study Session meeting. The three scenarios are as follows:

- Scenario One: Directly elected Mayor and four City Council Members for a total of five elected seats.
- Scenario Two: Directly elected Mayor and six City Council Members for a total of seven elected seats.
- Scenario Three: Directly elected Mayor and eight City Council Members for a total of nine elected seats.

ANALYSIS

Office Space: Each scenario was analyzed as to the impacts that may occur on fixed costs and operation expenses. Regarding fixed costs, Staff first assessed the need for office space. Scenario One was the simplest. The only suggested change to the existing City Council office configuration was the accommodation of a separate conference room with table and chairs for the Mayor and the conversion of the Assistant City Clerk's office (presently vacant) to the fourth City Council office. The cost to accommodate Scenario One is estimated to be \$18,000.

Scenario Two would require the relocation of the Deputy City Clerk and work area to construct two new City Council offices. The relocation of the Deputy City Clerk and work area should be close to the City Clerk and department records. The logical space would be to convert the existing Training Conference Room to needed offices and work area. This would reduce the number of large conference/meeting rooms in City Hall to the City Manager's Conference Room on the second floor, the

Aquarium Conference Room on the first floor, and the Council Chambers. There will still be three small conference/meeting rooms that can accommodate up to ten people. However both the City Manager's Conference Room and the Training Conference Room are frequently used given the need for a larger room to accommodate more than ten people. The cost to accommodate Scenario Two is estimated to be between \$150,500 and \$170,500. Included in the estimate is office furniture and related equipment for the new City Council offices and staff.

The third scenario, Scenario Three, created a number of challenges. In essence, both the City Manager's Office and the City Attorney's Office would have to be relocated to other parts of City Hall or moved off-site. If the two Offices are relocated in other areas of City Hall, other departments and staff may be displaced and relocated. The cost to accommodate Scenario Three is estimated to be between \$283,000 and \$323,000. Included in the estimate is office furniture and related equipment for the new City Council offices and staff.

Council Chambers and Other Facilities: Staff also considered the need for additional space in the Council Chambers and other facilities. As would be expected, Scenario One did not impact the Chambers or cause an impact on other facilities. There would be a minor expense of \$400 for new parking signs and maybe pavement markings.

Scenario Two may not impact the existing configuration of the Council Chambers, specifically the dais, if the City Council is comfortable with the current dais seating configuration for seven, with each space having a 33 inch work area. If the City Council would like to have a larger (42 inch) seating area/work space, the dais would have to be reconstructed and possibly relocated to the Chambers' easterly wall. If this were to occur, there would be additional expense to rewire the sound equipment and other equipment as well as lighting, staff seating area, video monitors, and the speaker's podium. If relocating the dais to the easterly wall does not work, relocating the Council Chambers off-site may have to be considered which would significantly add to the cost estimate for this scenario. There would be a minor expense of \$600 for new parking signs and pavement markings if the existing dais for seven is acceptable.

Scenario Three would require the relocation of the Council Chambers off-site (i.e., use of one of the city's building in the complex to the south) or the reconstruction of the easterly wall out for more space. A new dais would have to be purchased and associated furniture, sound equipment, video monitoring equipment, etc., to accommodate nine seating areas/working spaces. If a permanent Chambers cannot be accommodated elsewhere, a portable dais would have to be considered and available at the Conference and Recreation Center. Staff has estimated the cost of Scenario Three to be between \$22,800 and \$1.5 million.

Operation Expenses: In addition to the fixed charges described above, Staff has estimated the fiscal impacts of a directly elected Mayor on the City's budget using the same three scenarios. Scenario One is a "base budget" with the addition of a Management Analyst. The new position would assist the Mayor in a number of legislative and political matters. Scenarios Two and Three increased the base budget by the number of elected seat being increase to seven and nine, respectively and adding an Administrative Assistant for Scenario Two and two Assistants for Scenario Three. The cost estimates between the three scenarios range between \$530,530 and \$891,444.

Attached to this Memorandum are three tables. Each table describes in more detail the various items and related cost estimates described above.

SUMMARY

In summary, the cost estimate for each scenario varies significantly and the table below has been prepared to demonstrate this fact. Please note Staff has quickly, for the purpose of discussion only, prepared this Memorandum and cost estimates. If the City Council wants to visit one or more the scenarios above in more detail, Staff stands ready to assist if requested.

**DIRECTLY ELECTED MAYOR
 COST ESTIMATE SUMMARY TABLE**

Cost Estimates	Scenario One	Scenario Two	Scenario Three
<u>Table 1</u> Mayor and City Council Offices	\$18,000	\$150,500 to \$170,500	\$283,000 to \$323,000
<u>Table 2</u> Council Chambers and Other Costs	\$400	\$600	\$1,172,800 to \$2,172,800
<u>Table 3</u> Annual Operation Expenses*	\$530,530	\$710,987	\$891,444
TOTAL	\$548,930	\$862,087 to \$882,087	\$2,347,244 to \$3,387,244

* A "Base Budget" amount of \$433,584 was used.

If you have any questions, please feel free to contact me.

/rch

Attachments (3)

- c: Robert Hansen, City Attorney (w/ attachments)
- Bill Bopf, Interim City Manager (w/ attachments)
- Jane Halstead, City Clerk (w/ attachments)

TABLE 1
Directly Elected Mayor Cost Estimates:
Mayor and Council Offices

No.	Mayor and City Council Offices Improvements Necessary to accommodate Scenarios <i>(In today's dollars)</i>	Scenario One: Directly Elected Mayor + 4 Council Members	Scenario Two: Directly Elected Mayor + 6 Council Members	Scenario Three: Directly Elected Mayor + 8 Council Members
1	Convert two existing council offices into one for the Mayor (to accommodate conference table/chairs). Relocate fourth council office into vacant Assistant City Clerk's office.	\$10,000	\$10,000	Not Applicable
2	New conference table and chairs (6).	\$8,000	\$8,000	\$8,000
3	Relocate staff to Training Conference Room and build two new offices with new furniture.	Not Applicable	\$75,000	Not Applicable
4	Construct 2-new council offices or conference rooms where existing Deputy City Clerk presently works and the Office's work area.	Not Applicable	\$25,000	Not Applicable
5	Relocate City Attorney's Office and staff to other offices. Purchase furniture as necessary. May require the relocation of other staff to other locations.	Not Applicable	Not Applicable	\$100,000*

TABLE 1
Directly Elected Mayor Cost Estimates:
Mayor and Council Offices

No.	Mayor and City Council Offices Improvements Necessary to accommodate Scenarios <i>(In today's dollars)</i>	Scenario One: Directly Elected Mayor + 4 Council Members	Scenario Two: Directly Elected Mayor + 6 Council Members	Scenario Three: Directly Elected Mayor + 8 Council Members
6	Relocate City Manager Office and staff to other offices. Purchase furniture as necessary. May require the relocation of other staff to other locations.	Not Applicable	Not Applicable	\$90,000*
7	Miscellaneous office equipment per new office: Computer, phone, "hold-up" button, etc., (estimated at \$5,000/office).	Not Applicable	\$30,000 to \$50,000	\$80,000 to \$120,000
8	Space-planning consultant fee.	Not Applicable	\$2,500	\$5,000
	SUBTOTAL	\$18,000	\$150,500 to \$170,500	\$283,000 to \$323,000

* No estimate has been provided to relocate other offices if the CMO and/or CAO displace existing staff/departments in City Hall.

TABLE 2
Directly Elected Mayor Cost Estimates:
Council Chambers and Other Facilities

No.	Council Chambers and Other Facilities improvements to Accommodate Scenarios (In today's dollars)	Scenario One: Directly Elected Mayor + 4 Council Members	Scenario Two: Directly Elected Mayor + 6 Council Members	Scenario Three: Directly Elected Mayor + 8 Council Members
1	<u>Option A</u> Enlarge Council Chambers to the east (feasibility study required – cost unknown) to relocate dais. Purchase new 'made-to-fit' dais with 42" work-area/seating area. Purchase new furniture as necessary.	Not Applicable	Not Applicable	\$126,000
2	<u>Option B</u> Purchase new dais with 30" work-area/seating area. Install in the present location. Purchase new furniture as necessary.	Not Applicable	Not Applicable	\$9,000
3	<u>Option C</u> Utilize the existing dais and add two 33" work-areas/seating areas to match and modify dais platform.	Not Applicable	Not Applicable	\$35,000
4	<u>Option D</u> Relocate Council Chambers and staff off-site to Annex No. 1 building. Renovate building. Include annual maintenance/facilities charges to the new off-site Council Chambers.	Not Applicable	Not Applicable	\$1,000,000 to \$2,000,000

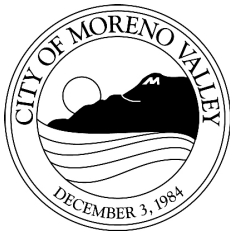
TABLE 2
Directly Elected Mayor Cost Estimates:
Council Chambers and Other Facilities

No.	Council Chambers and Other Facilities improvements to Accommodate Scenarios <i>(In today's dollars)</i>	Scenario One: Directly Elected Mayor + 4 Council Members	Scenario Two: Directly Elected Mayor + 6 Council Members	Scenario Three: Directly Elected Mayor + 8 Council Members
5	<u>Option E</u> Relocate Council Chambers to CRC will require additional discussion regarding the size of the dais, portability of dais, orientation, media support, etc.	Not Applicable	Not Applicable	Unknown
6	Purchase new chairs (if necessary).	Not Applicable	Not Applicable	\$2,000
7	Rework or install cabling, wiring, video cameras, microphones, Mayor's control panel, etc.	Not Applicable	Unknown	Unknown
8	Add new parking spaces and/or signs.	\$400	\$600	\$800
	SUBTOTAL	\$400	\$600	\$1,172,800 to \$2,172,800

TABLE 3
Directly Elected Mayor Cost Estimates:
Operation Expenses

No.	Mayor and City Council Offices Operation Expenses <i>(In today's dollars)</i>	Scenario One: Directly Elected Mayor + 4 Council Members	Scenario Two: Directly Elected Mayor + 6 Council Members	Scenario Three: Directly Elected Mayor + 8 Council Members
1	Mayor and City Council Salaries (including benefits): \$46,711 per position	\$233,555	\$326,977	\$420,399
2	Attendance at RDA and CSD meetings (48 per year each): \$6,240 per position	\$31,200	\$43,680	\$56,160
3	City Council discretionary funds: \$3,000 per position	\$15,000	\$21,000	\$27,000
4	Administrative Assistant(s): \$68,555 per position with benefits*	\$68,555	\$137,110	\$205,665
5	Executive Assistant: \$85,274 per position with benefits	\$85,274	\$85,274	\$85,274
6	Management Analyst: \$96,946 per position with benefits	\$96,946	\$96,946	\$96,946
	SUBTOTAL	\$530,530	\$710,987	\$891,444

* The number of Administrative Assistants: Mayor with six Council Members – 2 Assistants; Mayor and eight Council Members – 3 Assistants.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

Report to City Council

TO: Mayor and City Council

FROM: Jane Halstead, City Clerk, CMC

AGENDA DATE: February 25, 2014

TITLE: APPOINTMENTS TO THE JULY 4TH ADVISORY BOARD

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Appoint those applicants who received majority vote by the City Council
2. If vacancies are not filled by a majority vote of the City Council, authorize the City Clerk to re-advertise the positions as vacant and carry over the current applications for reconsideration of appointment at a future date.

DISCUSSION

On February 26, 2013, the City Council adopted Ordinance No. 860 (Chapter 2.64 of the Moreno Valley Municipal Code) establishing the July 4th Advisory Board. Applications were accepted by the City Clerk's Office to fill the positions on the newly established board.

The Board shall consist of seven adult members and two teen members. The appointees shall be bona fide residents of the City of Moreno Valley at the time of appointment and throughout their incumbencies and will serve without compensation for designated terms. The members shall be appointed in the manner and for the terms prescribed in Moreno Valley Municipal Code Sections 2.04.060 and 2.06.010, respectively, except that the terms of the members first appointed to the board shall be set by lot, in such manner that three adult terms shall expire on July 31 of the first year, two adult terms shall expire on July 31 of the second year, and two adult terms shall expire on July 31 of the third year, and that the terms of the teen members shall expire on July 31 of the third year following appointment or until high school graduation,

whichever comes first. Thereafter, all terms shall be for three years and shall expire three years after the effective date of the appointment; provided, however, that the term of an appointment made to fill an unexpired term shall be for the unexpired balance of such term.

The board members should represent a cross section of the city's diversity, with substantial expertise in the fundraising and promotion of the July 4th Festivities.

The July 4th Advisory Board will consider matters pertaining to promoting and seeking possible funding sources for the City's July 4th Festivities, including soliciting private contributions, grants, corporate sponsorships; facilitating fundraising opportunities; supporting the City's July 4th Festivities by volunteering the day of the event; making recommendations to enhance the parade; making recommendations to the fireworks' display; soliciting vendors for the afternoon festivities; providing assistance to market and promote the July 4th event; providing ideas to generate additional revenue and increase attendance to the event; encouraging participation from service organizations, school districts, businesses, and other governmental agencies; promoting the importance of the July 4th Festivities to the city's quality of life; serving as an advisory group on the July 4th Festivities to the staff and City Council; and performing any other functions that may be designated by resolution or motion of the City Council.

The City Clerk's Office received nine applications. Applications were submitted by the following persons:

Michelle DeJohnette, Ellen Hampton, Scott Heveran, Ashley Holguin, Patricia Holguin, Erick McKain, Janet MacMillan, Vevesi Save, and Oscar Valdepena.

For teen member position, our office received one application from Melissa Curley

As provided in the City's Municipal Code, the appointee will serve without compensation for a designated term.

CITY COUNCIL GOALS

The July 4th Advisory Board shall have the general power and duty to act in an advisory capacity to the staff and City Council in all matters pertaining to the City's July 4th festivities, including promoting and seeking possible funding sources for the City's July 4th Festivities.

Choosing not to fill a vacancy on the above-mentioned board would result in decreased participation from residents. This option is not consistent with the City Council goal of creating a positive environment for the development of Moreno Valley's future. Therefore, staff recommends that the City Council make the recommended appointment.

NOTIFICATION

1. Publication of the agenda
2. Report and agenda mailed to applicants

ATTACHMENTS

None

Prepared by:
Ewa Lopez
Deputy City Clerk, CMC

Department Head Approval:
Jane Halstead
City Clerk, CMC

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>J</i>

Report to City Council

TO: Mayor and City Council

FROM: Joel Ontiveros, Chief of Police

AGENDA DATE: February 25, 2014

TITLE: AUTHORIZATION TO BEGIN USING THE CALIFORNIA OFFICE OF TRAFFIC SAFETY (OTS) - SOBRIETY CHECKPOINT GRANT FUNDS – GRANT # SC14272

RECOMMENDED ACTION

Recommendations:

1. Authorize the use of the OTS Sobriety Checkpoint Grant funds in the amount of \$156,410, for which City Council authorized the Riverside County Sheriff's Department to apply on the City's behalf. The grant period began on October 1, 2013 and ends September 30, 2014.
2. Authorize all equipment costs and City personnel overtime to be directly billed to the Sheriff's Department Grant Unit which is managing this grant. The grant funds from OTS are currently available to the Sheriff's Department where they are maintained and reconciled. No appropriations or expenditures will be encumbered by the City, and the Police Department is not asking for a change to revenue or expense budgets.

SUMMARY

The City Council is requested to approve the use of grant funds from the California Office of Traffic Safety (OTS) - Sobriety Checkpoint Grant in the amount of \$156,410, for the period beginning October 1, 2013 and ending September 30, 2014.

On October 22, 2013 the Council authorized the Sheriff's Department to apply for the grant with the understanding that staff would address their implementation concerns before putting the funds to use. This report recommends approval of this grant-funded program following with two important revisions: Checkpoints will now be conducted in

each of the City's five Council Districts and notifications will be made when each Checkpoint opens.

As a result of the Riverside County Sheriff's Department administering the grant, there will be no impact to the City General Fund, as all City personnel overtime and expenses will be billed and paid directly by the Sheriff's Department. Therefore, there is no impact to the City General Fund and the Police Department's FY2013/2014 budget will not be affected.

ADVISORY BOARD/COMMISSION RECOMMENDATION

On December 17, 2012, the Public Safety Sub-Committee recommended that the Chief of Police apply for this grant and recommended the acceptance of this OTS Sobriety Checkpoint Grant opportunity.

BACKGROUND

On January 8, 2013, the Police Chief submitted to City Council a staff report requesting authorization to apply for and accept this DUI sobriety checkpoint grant. After receiving authorization from City Council to accept the grant, the Police Department applied for this grant requesting \$218,467.00 in grant funds. Although OTS approved our grant request, the award amount was reduced to \$156,410.

The City of Moreno Valley is committed to delivering quality public safety services in a manner which respects the community's values and expectations. In doing so, the City has ensured the Police Department's Traffic Division is properly equipped to promote roadway safety in all areas.

The OTS Sobriety Checkpoint Grant program is administered by the University of California Berkeley, Safe Transportation Research and Education Center (Safe TREC) and targets the following enforcement periods:

- December 13, 2013 through January 1, 2014
- August 15, 2014 through September 1, 2014

In September of 2013, the National Highway Traffic Safety Administration (NHTSA), changed its policy to require that California cities which contract for law enforcement services could not apply for OTS grant funds directly. As a result of this change, NHTSA rules authorized the Sheriff's Department to apply for OTS grant funding in the name of the respective contract cities and provide grant management activities. The OTS grant funds totaling \$156,410 were previously accepted by the City Council and remain available for use by the Moreno Valley Police Department.

DISCUSSION

In past years, the Police Department has conducted Driving Under the Influence (DUI) Sobriety Checkpoints, per the City Council's acceptance of grants to fund such

operations. The level of resources required for each operation will vary based on the time of day, day of week and location of the Sobriety Checkpoint. On average, a single operation will last 6 hours, with a staffing component of 2 sergeants, 18 officers, 4 community service officers, 1 dispatcher, 4 reserve officers, 10 volunteers and 10 explorers. A majority of these personnel, except for volunteers, are paid for with overtime funding.

Because the grant provides specific funding for overtime, the Police Department can conduct DUI Sobriety Checkpoint operations while still performing patrol duties at maximum efficiency. In an effort to improve roadway safety, the grant specifies that some of the deployment must take place during specific time frames throughout the year. The designated enforcement periods coincide with major holiday enforcement periods, where we could see increased instances of impaired driving. The grant also specifies personnel assigned to work these operations must be dedicated to the DUI Sobriety Checkpoints.

The approved funding for the DUI Sobriety Checkpoint Grant will cover all overtime costs associated with 18 DUI Sobriety Checkpoint operations, which will be conducted during this year-long campaign. This includes overtime funding for sergeants, officers, community service officers, and dispatchers. Also included in the grant is the approval to purchase required Sobriety Checkpoint related equipment such as: reflective cones, reflective safety vests and hand tally counters. As a requirement of the grant, the Police Department will be required to conduct detailed statistical analysis regarding the enforcement campaign; claim forms will be completed and submitted to the Riverside County Sheriff's Department.

Sobriety Checkpoint Program Reforms

As in years past, the Police Department has rotated the Sobriety Checkpoints throughout the City Council districts, based on public safety and statistical information. The California Supreme Court ruled in *Ingersoll v. Palmer* (1987) 43 Cal.3d 1321, that the location of DUI Sobriety Checkpoints will be based on the frequency of drunken driving arrests, accidents, and safety factors such as traffic patterns and street layouts.

The Police Department has determined based on statistical data and research, that it is permissible to conduct DUI Sobriety Checkpoints in all five (5) City Council districts. *Sobriety Checkpoints will be held in each of the City Council Districts.*

The Council also indicated an interest in broadening community awareness of Sobriety Checkpoints in operation. The Police Chief will notify the Council and the City Manager's Office when each Sobriety Checkpoint operation commences, indicating the specific location and hours of operation. In addition, the Police Department will provide the City Council with statistical information following each DUI Sobriety Checkpoint, to include the City Council district of residency of each offender.

During the Council's discussion on October 22nd, concerns were expressed regarding the inability of some City residents to obtain a driver's license. As a result of newly signed State legislation, individuals who reside in the City will be eligible to apply for a California Driver's License without regard to immigration status; this new provision will take effect in January 2015.

ALTERNATIVES

The Council has the following alternatives:

- 1) Authorize the Moreno Valley Police Department to begin using the approved OTS Grant funds titled - Sobriety Checkpoint Grant #SC14272, in the amount of \$156,410, which is now available to the Sheriff's Department. **Staff recommends this alternative.**

- 2) Decline the use of grant funds for the OTS Grant titled - Sobriety Checkpoint Grant # SC14272, in the amount of \$156,410, which is now available to the Sheriff's Department. **Staff does not recommend this alternative.**

FISCAL IMPACT

There is no requirement to match funds associated with this grant. There is no fiscal impact to the City revenue and expense budget. All City personnel overtime and equipment expenses are billed to and paid directly by the Riverside County Sheriff's Department, with full reimbursement by OTS. Therefore, there is no impact to the City General Fund and the Police Department's FY2013/2014 budget will not be affected.

CITY COUNCIL GOALS

To provide a safe and secure environment for people and property in the community, and provide protection for citizens who live, work and visit the City of Moreno Valley.

ATTACHMENTS

- Attachment 1_2014_OTS Award Letter
- Attachment 2_2014_Grant Application

Prepared By:
Bill Tyler
Lieutenant

Department Head Approval:
Joel Ontiveros
Chief of Police

OFFICE OF TRAFFIC SAFETY2208 KAUSEN DRIVE, SUITE 300
ELK GROVE, CA 95758www.ots.ca.gov
(916) 509-3030
(800) 735-2929 (TT/TDD-Referral)
(916) 509-3055 (FAX)

May 24, 2013

Grant No. SC14272

Launa Jimenez
Management Analyst
Moreno Valley Police Department
22850 Calle San Juan de Los Lagos
Moreno Valley, CA 92552

Dear Ms. Jimenez:

Congratulations! Through a competitive process, the Office of Traffic Safety (OTS) has tentatively approved your funding request for the application titled "Sobriety Checkpoint Grant Program" for the amount of \$156,410.00. This award includes a maximum of \$3,410.00 for the purchase of OTS-approved checkpoint supplies. The approval is for the operation of 18 checkpoints in Moreno Valley in the period, October 1, 2013 to September 30, 2014. The maximum allowed cost per checkpoint is \$8,500.00.

The University of California Berkeley Safe Transportation Research and Education Center (SafeTREC), who is administering the grant funds for OTS, will **e-mail a grant contract** to the contact listed on the application. Please have the Authorizing Official and any additional individuals authorized to sign claims sign the contract. Send the contract **to SafeTREC no later than September 3, 2013**. It is our goal to have all new grants start no later than October 1, 2013. The SafeTREC will issue you a copy of the signed, fully executed grant contract.

If approval from your City Council or Board of Supervisors is required, you should begin that process now. Do not incur costs prior to the date of the signed, fully executed contract from SafeTREC.

Again, congratulations on the success of your application. If you have any questions, please contact Shar Rauch, SafeTREC Program Coordinator at (510) 643-1774 or by e-mail at checkpoint@berkeley.edu.

Sincerely,

A handwritten signature in black ink that reads "Chris Murphy".

CHRISTOPHER J. MURPHY
Director

CM:kn

cc: Shar Rauch

This page intentionally left blank.



The Regents of the University of California
 School of Public Health, Berkeley,
 with Primary Funding from the
 California Office of Traffic Safety

GRANT NUMBER
 SC14272

GRANT

1. Title of Program
SOBRIETY CHECKPOINT GRANT PROGRAM FOR 2013-2014

2. Name of Applicant Agency RIVERSIDE, COUNTY OF	5. Period of Grant Month - Day - Year
---	--

3. Location(s) of checkpoints MORENO VALLEY	From: 10/01/13 To: 09/30/14
--	--------------------------------

4. University of California Berkeley, Safe Transportation Research and Education Center
 DAVID RAGLAND, PRINCIPAL INVESTIGATOR, UC BERKELEY SAFE TRANSPORTATION RESEARCH AND EDUCATION CENTER

6. Description of Program
 The goal of the Sobriety Checkpoint Grant Program for 2013-2014 is to reduce the number of victims killed and injured in alcohol-involved crashes in participating cities. The period of this grant contract ("contract"), October 01, 2013 to September 30, 2014, encompasses two national mobilization periods: the Winter Holiday Mobilization period, December 13, 2013 - January 01, 2014, and the Labor Day Mobilization period, August 15, 2014 - September 01, 2014. The Riverside County Sheriff's Department will conduct sobriety checkpoints within the cities listed above in Box 3, in accordance with this contract. The contract includes the attached Schedule A Descriptions, Schedule B - Detailed Budget Estimate, Schedule B-1 - Budget Narrative, and Schedule C - Terms and Conditions.

7. Federal Funds Allocated Under This Grant Shall Not Exceed: **\$156,410.00**

8. Approval Signatures (By signing this page, Agency agrees to the terms and conditions which follow and are attached)

A. The Regents of the University of California Authorized Signature

Name: David Ragland Phone: (510) 642-0655
 Title: Director, SafeTREC Fax: (510) 643-9922
 Address: UC Berkeley
 Safe Transportation Research and Education Center
 2614 Dwight Way #7374
 Berkeley, CA 94720-7374
 Email: davidr@berkeley.edu

[Signature] 11/4/13
 (Signature) (Date)

B. Authorizing Official For Applicant Agency

Name: Stanley Sniff Phone: (951) 955-2400
 Title: Sheriff-Coroner-PA Fax: (951) 955-2428
 Address: 4095 Lemon Street, 2nd floor
 Riverside, CA 92501 - 3600
 Email: ssniff@riversidesheriff.org

[Signature] 11/5/13
 (Signature) (Date)

C. Agency Office Authorized to Receive Payments

Agency: Riverside, County of Phone: (951) 955-2718
 Office: Sheriff's Accounts Receivables, 3rd Floor
 Address: PO Box 512
 Riverside, CA 92501 - 0512
 Tax ID #: 95-6000943
 Contact Person: Joann Roberts
 Email: jgrobert@riversidesheriff.org

D. Optional: Individuals Authorized to Sign Claims (in addition to the Authorizing Official For Applicant Agency)

Name: Antonio Saldana Title: Finance Director
[Signature] 11/5/13
 (Signature) (Date)

Name: _____ Title: _____
 (Signature) (Date)

FORM APPROVED BY COUNTY COUNSEL
 BY: NEAL R. KIPNIS DATE: 11/13/13

**Schedule A - Description
Sobriety Checkpoint Grant Program for 2013-2014**

GOALS

1. To reduce the number of victims killed in alcohol-involved crashes.
2. To reduce the number of victims injured in alcohol-involved crashes.
3. To reduce nighttime (2100 hours to 0259 hours) fatal crashes.
4. To reduce nighttime (2100 hours to 0259 hours) injury crashes.
5. To reduce hit and run fatal crashes.
6. To reduce hit and run injury crashes.

AGENCY OBJECTIVES

1. To conduct a total of 18 sobriety checkpoints by September 30, 2014 (should be a minimum of one checkpoint per mobilization).

NOTE: If a department elects to combine a Driver License (DL) checkpoint with a sobriety checkpoint, the department should: 1) inform the public (via the press release) that driver licenses will be checked and 2) conduct DUI/DL checkpoint operations with signs reading, "DUI/Driver License Checkpoint Ahead".

To better identify and apprehend drug-impaired drivers in addition to alcohol-impaired drivers, it is highly recommended that all personnel assigned to staff the greeting lane of the checkpoint be Drug Recognition Experts (DREs) and/or Advanced Roadside Impaired Driving Enforcement (ARIDE) trained sworn officers. At the very minimum, all officers contacting drivers in the greeting lane should be National Highway Traffic Safety Administration (NHTSA) Standardized Field Sobriety Test (SFST) trained and certified.

To maximize effectiveness, checkpoint operations may be conducted at more than one location on any evening. Each checkpoint should be highly publicized and visible. **The Office of Traffic Safety (OTS) does not fund or support independent DL checkpoints.**

Only on an exception basis and with OTS pre-approval will OTS fund checkpoint operations that begin prior to 1800 hours. When practicable it is recommended that checkpoint operations run until 0300 hours.

2. If appropriate, a supervisor(s) should attend OTS-sponsored "DUI Checkpoints - Planning and Management" eight-hour, POST-certified training by December 31, 2013. Officers are encouraged to attend this training as well.
3. To collect and report checkpoint statistics on-line for checkpoints conducted during the Winter and Labor Day mobilization periods and submit the data by the deadlines established by the Safe Transportation Research and Education Center (SafeTREC).
4. To collect and report checkpoint statistics on-line for checkpoints conducted outside the mobilization periods and to submit the data by the end of the applicable quarter(s).

Schedule A - Description (continued)
Sobriety Checkpoint Grant Program for 2013-2014

MEDIA OBJECTIVES

1. After the statewide kick-off press event, issue a press release announcing the kick-off of this grant, using the OTS kick-off press release template provided by SafeTREC.
2. During the mobilization periods (December 13 - January 1 and August 15 - September 1), if an AVOID media campaign is active in the county, grantee should notify the AVOID Coordinator of checkpoint locations, dates and times at least fourteen (14) days in advance of all planned checkpoints. The AVOID Coordinator should issue press releases including checkpoints conducted during the mobilization periods to all major media outlets in the region.
3. For each checkpoint operation, grantee should distribute a separate press release using the OTS template provided by SafeTREC unless multiple checkpoints are to be conducted within a seven (7) day period, in which case one press release covering the seven (7) day period that covers all operations will suffice. When using the OTS press release template provided by SafeTREC, grantee should forward press releases, media advisories, alerts and other press materials to SafeTREC concurrently with distribution to the media. If any other press release format or copy is used, grantee should submit the press release to the OTS Public Information Officer at pio@ots.ca.gov for his review. Optimum lead-time would be 10 – 20 days prior to the operation. The approved press release should also be sent to SafeTREC. For post-operational media communications that report the results of checkpoints, grantee does not need to have the release approved by OTS.
4. Grantee should use OTS's tagline "Report Drunk Drivers. Call 911" on all news releases and checkpoint publication materials.
5. To use the following standard language in all press, media, and printed materials: "Funding for this program was provided by a grant from the California Office of Traffic Safety, through the National Highway Traffic Safety Administration."
6. Grantee should issue to the media a post-operational news release reporting the results of the checkpoint (do not submit to OTS media communications reporting the results of checkpoints). Any drug-impaired driving arrests (23152(a)) and other drug arrests (possession, transportation, for sale) made as the result of the checkpoint operation should be incorporated into the post-operational media release.

METHOD OF PROCEDURE**Phase I: Program Preparation (October 1, 2013 – December 12, 2013)**

1. Review the contract to ensure compliance with contract provisions.
2. Notify SafeTREC of any changes in contact information. The contract, purchase order number, and Fact Blasts are emailed to the contact person listed in the agency application.
3. Attend OTS-sponsored "DUI Checkpoints – Planning and Management" eight-hour, POST-certified training by December 31, 2013.
4. Plan checkpoint staffing, e.g., supervisors, officers, clerical staff, or community service officers as needed to staff each sobriety checkpoint on an overtime basis.
5. Send a written request to SafeTREC to seek approval of any changes to grant funded work or deliverables.
6. Order grant approved checkpoint supplies, if applicable.

Schedule A - Description (continued)
Sobriety Checkpoint Grant Program for 2013-2014

Phase II: Mobilization (December 13, 2013 – January 1, 2014 and August 15, 2014 – September 1, 2014)

7. After the statewide kick-off press event in December, grantee should issue a press release announcing the kick-off of this grant using the OTS kick-off press release template provided by SafeTREC.
8. If an AVOID media campaign is active in the county, grantee should notify the AVOID Coordinator of checkpoint locations, dates and times at least fourteen (14) days in advance of all planned checkpoints. The AVOID Coordinator should issue press releases including checkpoints conducted during the mobilization periods to all major media outlets in the region.
9. For each checkpoint operation, grantee should distribute a separate press release using the OTS template provided by SafeTREC unless multiple checkpoints are to be conducted within a seven (7) day period, in which case one press release covering the seven (7) day period that covers all operations will suffice. When using the OTS press release template provided by SafeTREC, grantee should forward press releases, media advisories, alerts, and other press materials to SafeTREC concurrently with distribution to the media. If any other press release format or copy is used, grantee should submit the press release to the OTS Public Information Officer at pio@ots.ca.gov for his review. Optimum lead-time would be 10 – 20 days prior to the operation. The approved press release should also be sent to SafeTREC. For post-operational media communications that report the results of checkpoints, grantee does not need to have the release approved by OTS.
10. Use OTS's tagline, "Report Drunk Drivers. Call 911" on all news releases and checkpoint publication materials.
11. Conduct roll call training. Roll call training costs are not reimbursable.
12. To better identify and apprehend drug-impaired drivers in addition to alcohol-impaired drivers, it is highly recommended that all personnel assigned to staff the greeting lane of the checkpoint be Drug Recognition Experts (DREs) and/or Advanced Roadside Impaired Driving Enforcement (ARIDE) trained sworn officers. At the very minimum, all officers contacting drivers in the greeting lane should be NHTSA SFST trained and certified.
13. Begin the checkpoint no earlier than 1800 hours and if possible and practicable, operate the checkpoint until 0300 hours.
14. Conduct the last checkpoint no later than September 30, 2014.

Phase III: Post Operational Data Reporting (at the end of each mobilization period and each applicable calendar quarter)

15. Submit post-operational data on-line for checkpoints conducted during the Winter Holiday and Labor Day mobilizations. Submit data by the SafeTREC deadlines.
16. Submit post-operational data on-line for checkpoints conducted outside the mobilization periods. Submit the data by the end of the applicable quarter. If multiple checkpoints are conducted during the quarter, summarize(total) the checkpoint statistics.
17. Issue to the media a post-operational news release reporting the results of the checkpoint. Any drug-impaired driving arrests (23152(a)) and other drug arrests (possession, transportation, for sale) made as the result of the checkpoint operation should be incorporated into the post-operational media release.

Phase IV: Claim Submission (at the end of the applicable calendar quarter)

18. Compile actual overtime and checkpoint supply costs incurred for operating the grant-funded checkpoints.
19. Download the claim form from the SafeTREC web site at:
http://www.safetrec.berkeley.edu/checkpointgrants/2013_2014checkpoint.html
20. Complete the claim form for the applicable quarter in accordance with Schedule B – Detailed Budget Estimate and Schedule B-1 – Budget Narrative.
21. Mail the claim forms for the quarter, with the required supporting documentation (specified in Schedule B-1) to SafeTREC following the end of the applicable calendar quarter.

**Schedule B - Detailed Budget Estimate
Sobriety Checkpoint Grant Program for 2013-2014**

The Riverside, County of will conduct a total of 18 sobriety checkpoints in Moreno Valley as described in Table B below.

Table B

	Number of Checkpoints	Cost Per Checkpoint	Total Cost
Winter Holiday Mobilization, December 13, 2013 – January 01, 2014 (should be a minimum of one checkpoint)	2	\$8,500.00	\$17,000.00
Labor Day Holiday Mobilization, August 15, 2014 – September 01, 2014 (should be a minimum of one checkpoint)	2	\$8,500.00	\$17,000.00
Number of checkpoints outside the mobilization periods	14	\$8,500.00	\$119,000.00
Total Number of Checkpoints	18	Maximum Reimbursable Amount for Checkpoints	\$153,000.00

The cost per checkpoint includes overtime benefits. Only actual benefits accrued from overtime hours will be covered (e.g., retirement, medical/dental/vision insurance, uniform allowances will not be covered). Allowable benefits include: Social Security (OASDI), Workers Compensation, Medicare, State-run disability, and unemployment insurance.

Maximum Reimbursable Amount for Checkpoint Supplies	\$3,410.00
--	-------------------

Only OTS-approved supplies will be reimbursed. The prices of supplies will be reimbursed in accordance with policies established by the OTS.

Grant Total Amount (Maximum Reimbursable Amount for Checkpoints + Maximum Reimbursable Amount for Checkpoint Supplies)	\$156,410.00
--	---------------------

**Schedule B-1 - Budget Narrative
Sobriety Checkpoint Grant Program for 2013-2014**

Riverside, County of will be reimbursed for overtime personnel costs and checkpoint supplies to conduct the checkpoints.

Overtime reimbursement will reflect actual costs (overtime hourly rate and overtime benefit rates) of the personnel conducting the appropriate operation(s) up to the amount of the approved cost per checkpoint and the grant total stated in Schedule B- Detailed Budget Estimate. Only actual benefits accrued from overtime hours will be covered (e.g., retirement, medical/dental/vision insurance, uniform allowances will not be covered). Allowable benefits include: Social Security (OASDI), Workers Compensation, Medicare, State-run disability, and unemployment insurance.

Budgeted grant activities will be conducted by personnel on an overtime basis; supplanting is not allowable. The grant covers only the costs of police department personnel. Grants do not cover contractual services. Grant-funded operations may be conducted by personnel such as an officer, sergeant, corporal, deputy, community service officer, dispatcher, clerical/administrative, etc. depending on the titles used by the agency. Personnel will be deployed as needed to accomplish the grant goals and objectives. Administrative/clerical personnel are allowable only if they worked on the checkpoint operation, e.g., to process the larger than normal volume of citations, towing records, and arrest/incident reports. These reports must be a result of the operation and required to be processed quickly for distribution to the courts and the District Attorney's Office, or to meet statutory time limits. Clerical overtime incurred before the checkpoint or more than one business day after the last day of the checkpoint is not allowable. Costs for preparing claims are not reimbursable.

OTS-approved checkpoint supplies (cones, signage, vests, PAS devices/supplies and lighting equipment) are reimbursable provided that: 1) the total cost of supplies, including tax and shipping, does not exceed the awarded amount specified in Schedule B; and 2) the unit prices of checkpoint supplies do not exceed OTS-established unit costs. Download the Checkpoint Supply Policy from the SafeTREC website to ensure compliance of checkpoint supply purchases. Other direct costs are not reimbursable, except for OTS-approved checkpoint supplies.

Indirect costs are not reimbursable.

Reimbursements are contingent upon the following (exceptions must be approved by SafeTREC):

- i. The applicable post-operational data have been submitted using SafeTREC's on-line reporting system.
- ii. The claim form is correctly filled out, using the SafeTREC Excel-based form.
- iii. The claim amounts do not exceed the limits set forth in *Schedule B -Detailed Budget Estimate*.
- iv. The information in the overtime slips and the ledger report are consistent and fully support the claim.
- v. A ledger report(s) supporting the claim amount is attached to the claim. Only source documents are accepted to support the claim amount. Explanatory documentation such as spreadsheets may be submitted to provide additional information but cannot be accepted in lieu of a ledger report(s).
- vi. An invoice(s) for the amount of checkpoint supplies is attached to the claim. The invoice must contain a sufficient description of the purchased item(s), quantity, and unit cost.
- vii. The claim is signed by the Authorizing Official (Box B of the grant cover page) or Individuals Authorized to Sign Claims (Box D) as designated in the grant cover page.
- viii. Changes in the Authorizing Official For the Applicant Agency or the designation of any other additional individual(s) to sign claims are documented in accordance with SafeTREC documentation requirements.
- ix. The final claim is submitted no later than October 31, 2014.

**Schedule C - Terms and Conditions
Sobriety Checkpoint Grant Program for 2013-2014**

A. INDEMNIFICATION

Applicant Agency agrees to indemnify, defend, and save harmless the State of California, its officers, agents, and employees, the Regents of the University of California, its officers, agents, and employees from any and all claims and losses accruing or resulting to any and all contractors, subcontractors, suppliers, laborers, and any other person, firm, or corporation furnishing or supplying work services, materials, or supplies in connection with the performance of this contract, and from any and all claims and losses accruing or resulting to any person, firm, or corporation who may be injured or damaged by Applicant Agency in the performance of this contract.

B. GOVERNING LAW

This Contract shall be governed by and construed in accordance with the laws of the State of California.

C. NON-ASSIGNABILITY

The obligations of the applicant agency under this Contract are not assignable to any third party.

D. USE OF UNIVERSITY NAME/TRADEMARKS

Applicant Agency shall not use the name of the University of California, or any abbreviation thereof, or any name of which "University of California" is a part, or any trademarks of the University, in any commercial context, such as may appear on products, in media (including web sites) and print advertisements in cases when such use may imply an endorsement or sponsorship of the Applicant Agency, its products, or services. All uses of the University's name and trademarks, therefore, must first receive prior written consent of The Regents of the University of California through the Office of Marketing & Business Outreach. This policy is in compliance with the State of California Education Code Section 92000.

E. TERMINATION

Each party has the right to suspend, terminate or abandon the execution of any work by the Applicant Agency without cause at any time upon giving prior written notice. In the event that this contract is suspended, terminated, or abandoned, the Regents of the University of California shall pay the Applicant Agency for services provided hereunder prior to the effective date of said suspension, termination, or abandonment. Said payment shall be computed in accordance with Schedules B and B-1, provided that the maximum amount payable to the Applicant Agency for its services shall not exceed the Grant Total Amount on Schedule B for services provided hereunder prior to the effective date of suspension, termination, or abandonment.

F. STATE OF CALIFORNIA TERMS, CONDITIONS, AND CERTIFICATIONS

Applicant Agency agrees to abide by the General Terms, Conditions, and Certifications contained in OTS Grant Program Manual, Chapter 8.

This page intentionally left blank.



APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>D</i>

Report to City Council

TO: Mayor and City Council

FROM: Joel Ontiveros, Chief of Police

AGENDA DATE: February 25, 2014

TITLE: AUTHORIZATION TO APPLY AND ACCEPT THE FY2014/2015 CALIFORNIA OFFICE OF TRAFFIC SAFETY (OTS) - SELECTIVE TRAFFIC ENFORCEMENT PROGRAM (STEP) GRANT - APPLICATION # 21741

RECOMMENDED ACTION

Recommendations:

1. Authorize the Riverside County Sheriff's Department to apply for and accept on the City's behalf (if awarded), the FY2014/2015 California Office of Traffic Safety (OTS) Selective Traffic Enforcement Program (STEP) grant in the amount of \$328,607.69 for the period beginning October 1, 2014, and ending September 30, 2015.
2. Authorize all equipment costs and City personnel overtime to be directly billed to the Sheriff's Department Grant Unit which is managing this grant. All reimbursement funds will be sent directly to the Sheriff's Department and will not affect the City General Fund revenue or expense budgets. Therefore, there is no impact to the City General Fund and the Police Department's FY2014/2015 budget will not be affected.

SUMMARY

The City Council is requested to authorize the application for and acceptance of the FY2014/2015 California Office of Traffic Safety – Selective Traffic Enforcement Program Grant in the amount of \$328,607.69 for the period beginning October 1, 2014 and ending September 30, 2015. As a result of the Riverside County Sheriff's Department administering this grant, there will be no impact to the City General Fund budget, as all City personnel overtime cost and expenses related to this grant will be billed to and paid directly by the Sheriff's Department. Therefore, there is no impact to the City General Fund and the Police Department's FY2014/2015 budget will not be affected.

ADVISORY BOARD/COMMISSION RECOMMENDATION

As a result of the Public Safety Sub-Committee meeting being canceled for the month of February 2014, the Police Department was unable to present this grant opportunity to the Committee prior to the February 25, 2014, City Council meeting. However, this particular STEP grant has been supported by the Public Safety Sub-Committee in years prior.

BACKGROUND

The City of Moreno Valley is committed to delivering quality public safety services in a manner which respects the community's values and expectations. In doing so, the City has ensured the Police Department's Traffic Division is properly equipped to promote roadway safety in all areas.

In September of 2013, the National Highway Traffic Safety Administration (NHTSA), changed its policy to require that California cities which contract for law enforcement services could not apply for OTS grant funds directly. As a result of this change, NHTSA rules authorized the Sheriff's Department to apply for OTS grant funding in the name of the respective contract cities and provide grant management activities. If City Council approves this application, the Sheriff's Department will apply for this grant opportunity on behalf of the City, in the amount of \$328,607.69. Unlike years past, this FY2014/2015 STEP grant will be all inclusive combining together the Selective Traffic Enforcement Program and the yearly OTS Sobriety Checkpoint grant.

DISCUSSION

OTS recently announced it would accept grant applications for the Federal Fiscal Year 2014-2015 STEP Grant. This grant is used to fund law enforcement operations to include 15 DUI saturation patrols, 3 DUI warrant sweeps, 2 stakeout operations for known DUI offenders, 35 distracted driving enforcement operations (cellphone and texting), 35 primary collision factor violation enforcement operations (red light, speed, stop sign, etc.), and 4 traffic safety educational community presentations. In addition, this grant will fund 18 DUI/DL checkpoint operations in various locations throughout the City, including operations in all five (5) City Council districts.

If the grant application is approved and the grant awarded, the Police Department will attempt to obtain a modification to grant funds to include in-state travel and training courses. Specifically, the Police Department will attempt to send two officers to a five-day Cavanaugh and Associates DUI Seminar class which has proven to be a great resource in building the skills necessary to handle DUI cases. Additionally, we will also send six officers to the Vehicular Homicide Seminar, which is designed to train prosecutors and law enforcement officers who handle misdemeanor and felony vehicular homicides. The course will assist our law enforcement officers in developing the knowledge and skills necessary to investigate, evaluate, prepare, and handle cases involving vehicular fatalities. Instructional courses will include California substantive law, collision investigation and reconstruction, post-collision determination of speed, how

kinematics can assist in driver identification, understanding expert testimony, cross-examining a defense expert, and basic toxicology.

This grant will also fund programs conducted by Motivational Media Assemblies (MMA), which is an international leader in school assembly events. The media assembly features clips from today's most popular movies, music videos and sport footage. Motivational Media Assemblies are generating the highest student responses to character education and responsibility improvement messages. Themes which are part of the media assembly include traffic safety, DUI driving, distracted driving, decision-making, conflict resolution, drug prevention and personal excellence. The Police Department will partner with our local school districts and conduct assemblies in Moreno Valley high schools and middle schools.

Many of our traffic officers are tasked with teaching the community on the life changing events that take place as a result of drunk driving. Funds will be made available to purchase instructional material that will give real stories and scenarios on the dangers and consequences of drunk driving.

In past years, the Police Department has conducted Driving Under the Influence (DUI) Sobriety Checkpoints, per the City Council's acceptance of grants to fund such operations. The level of resources required for each operation will vary based on the time of day, day of week and location of the Sobriety Checkpoint. On average, a single operation will last 6 hours, with a staffing component of 2 sergeants, 18 officers, 4 community service officers, 1 dispatcher, 4 reserve officers, 10 volunteers and 10 explorers. A majority of these personnel, except for volunteers, are paid for with overtime funding.

Because the grant provides specific funding for overtime, the Police Department can conduct DUI Sobriety Checkpoint operations while still performing patrol duties at maximum efficiency. In an effort to improve roadway safety, the grant specifies that some of the deployment must take place during specific time frames throughout the year. The designated enforcement periods coincide with major holiday enforcement periods, where we could see increased instances of impaired driving. The grant also specifies personnel assigned to work these operations must be dedicated to the DUI Sobriety Checkpoints.

The approved funding for the STEP grant will cover all overtime costs associated with 15 DUI sobriety checkpoint operations, which will be conducted during this year-long campaign. This includes overtime funding for sergeants, officers, community service officers, and dispatchers. Also included in the grant is the approval to purchase required Sobriety Checkpoint related equipment such as: reflective cones, reflective safety vests and hand tally counters. As a requirement of the grant, the Police Department will be required to conduct detailed statistical analysis regarding the enforcement campaign; claim forms will be completed and submitted to the Riverside County Sheriff's Department.

Sobriety Checkpoint Program Reforms

As in years past, the Police Department has rotated the Sobriety Checkpoints throughout the City Council districts, based on public safety and statistical information. The California Supreme Court ruled in *Ingersoll v. Palmer* (1987) 43 Cal.3d 1321, that the location of DUI Sobriety Checkpoints will be based on the frequency of drunken driving arrests, accidents, and safety factors such as traffic patterns and street layouts.

The Police Department has determined based on statistical data and research, that it is permissible to conduct DUI Sobriety Checkpoints in all five (5) City Council districts. *Sobriety Checkpoints will be held in each of the City Council Districts.*

The Council also indicated an interest in broadening community awareness of Sobriety Checkpoints in operation. The Police Chief will notify the Council and the City Manager's Office when each Sobriety Checkpoint operation commences, indicating the specific location and hours of operation. In addition, the Police Department will provide the City Council with statistical information following each DUI Sobriety Checkpoint, to include the City Council district of residency of each offender.

During the Council's discussion on October 22nd, concerns were expressed regarding the inability of some City residents to obtain a driver's license. As a result of newly signed State legislation, individuals who reside in the City will be eligible to apply for a California Driver's License without regard to immigration status; this new provision will take effect in January 2015.

ALTERNATIVES

The Council has the following alternatives:

- 1) Approve the application and acceptance (if awarded) of the FY2014/2015 OTS Grant titled "STEP Grant" for \$328,607.69. **Staff recommends this alternative.**
- 2) Not approve the FY2014/2015 application for the OTS Grant titled "STEP Grant" for \$328,607.69. **Staff does not recommend this alternative.**

FISCAL IMPACT

There is no requirement to match funds associated with this grant. There is no fiscal impact to the City revenue and expense budget. All City personnel overtime and equipment expenses are billed to and paid directly by the Riverside County Sheriff's Department, with full reimbursement by OTS. Therefore, there is no impact to the City General Fund and the Police Department's FY2014/2015 fiscal budget (2705) will not be affected.

CITY COUNCIL GOALS

To provide a safe and secure environment for people and property in the community, and provide protection for citizens who live, work and visit the City of Moreno Valley.

ATTACHMENTS

- 1) 2015 OTS-136 Grant Application Cover Sheet and Budget
- 2) Final OTS Grant Application STEP

Prepared By:
Bill Tyler
Lieutenant

Department Head Approval:
Joel Ontiveros
Chief of Police

This page intentionally left blank.

Application Instructions

OTS-136 Grant Application Cover Sheet and Budget

Cover Sheet

- ✓ Cut and paste (using the excel insert function) the Application Title and Application Summary from the OTS-136a Grant Application.
- ✓ Shaded areas will automatically populate from the Budget page if applicable.
- ✓ The authorized representative should be duly authorized to submit the application on behalf of the agency; is knowledgeable of program and financial contents of the application and will be the initial contact during the application process.

Budget

- ✓ Build the Budget based on the activities you will be conducting.
- ✓ Each activity should be its own line item (i.e. Saturation Patrol, DUI/DL Checkpoint, Court Stings, etc.).
- ✓ Benefits (if applicable) should be its own line item and show the total percentage used (i.e. 13%).
- ✓ Each line item will require a description and justification in the OTS-136a Grant Application Budget Narrative (see below).

OTS-136a Grant Application

Application

- ✓ Complete the application as indicated.
- ✓ Statistical tables should be as complete as possible.

Budget Narrative

- ✓ Insert a description and justification in each category for line items listed on the OTS-136 Budget.
- ✓ Personnel costs should include planned activities and the calculation for each.
 - i.e. Saturation Patrol = 4 officers x 4 hrs each @ \$80 = \$1,280 x 10 operations = \$12,800
 - i.e. Probation Officer = 2 POs @ \$60,000 yr x 100% = \$120,000
 - Benefits (if applicable) will be detailed in the final Grant Agreement.

Completed applications should be submitted as directed in the Submission Instructions.

Questions should be directed to your Regional OTS Coordinator.

Cover Sheet for Traffic Safety Application Federal Fiscal Year 2015		OTS USE ONLY	
		Application #:	_____
		Coordinator:	_____
		Program Area:	_____
Agency Name: <u>Riverside County Sheriff's Department</u>			
Dept: <u>City of Moreno Valley Traffic Division</u>		Dun and Bradstreet (DUNS) #:	
Application Title: <u>Selective Traffic Enforcement Program (STEP)</u>			
Application Summary: To reduce the number of persons killed and injured in crashes involving alcohol and other primary collision factors, "best practice" strategies will be conducted. The funded strategies will be conducted. The funded strategies may include: DUI checkpoints, DUI saturation patrols, warrant service operations, stakeouts operations, a "HOT Sheet" program, educational presentations, and court stings. The program may also concentrate on speed, distracted driving, seat belt enforcement, operations at intersections with disproportionate number of traffic crashes, and special enforcement operations encouraging motorcycle safety. These strategies are designed to earn media attention thus enhancing the overall deterrent effect.			
Equipment: (If applicable)		Requested Funding by Budget Category:	
0		Personnel:	\$ <u>325,407.69</u>
0		Travel:	\$ <u>-</u>
0		Contractual Services:	\$ <u>3,200.00</u>
0		Equipment:	\$ <u>-</u>
0		Other Direct Costs:	\$ <u>-</u>
0		Indirect Costs:	\$ <u>-</u>
Authorized Representative		I verify that I am authorized to submit this application on behalf of my Agency and/or Department.	
First Name:	_____	_____	
Last Name	_____	Authorized Representative	
Title:	_____		
Address 1:	_____	Requested Funding	
Address 2:	_____		
Address 3:	_____		
City:	_____		
State:	_____	Federal Fiscal Year 2015	\$ <u>328,607.69</u>
Zip Code:	_____		
Phone #:	_____		
Ext:	_____		
FAX #:	_____		
Email:	_____	Total	\$ <u>328,607.69</u>

SCHEDULE B DETAILED BUDGET ESTIMATE		
COST CATEGORY	FISCAL YEAR ESTIMATES	
	10/1/2014 thru 9/30/15	TOTAL COST TO GRANT
A. PERSONNEL COSTS:		
35 Distracted Driving Enforcement Operations @ \$ 596.43	\$	20,875.05
Benefits for Deputy Sheriff @ 11.634%	\$	2,428.61
15 DUI Saturation Patrols @ \$ 1,450.74	\$	21,761.10
Benefits for Deputy Sheriff @ 11.634%	\$	2,081.66
Benefits for CSO II @ 11.634%	\$	450.03
35 Traffic Enforcement Overtime Operations @ \$ 596.43	\$	20,875.05
Benefits for Deputy Sheriff @ 11.634%	\$	2,428.61
2 Motorcycle Safety Enforcement Operations @ \$ 927.78	\$	1,855.56
Benefits for Deputy Sheriff @ 11.634%	\$	215.88
2 DUI Stakeout Operations @ \$ 1590.48	\$	3,180.96
Benefits for Deputy Sheriff @ 11.634%	\$	370.08
3 DUI Warrant Service Operations @ \$ 8903.84	\$	26,711.52
Benefits for Sergeant @ 11.634%	\$	518.12
Benefits for Deputy Sheriff @ 11.634%	\$	2,220.44
Benefits for CSO @ 11.634%	\$	240.02
Benefits for Dispatcher @ 11.634%	\$	129.07
20 Speed Enforcement (Pedestrian/Bicycle) Operations @ \$ 397.62	\$	7,952.40
Benefits for Deputy Sheriff @ 11.634%	\$	925.19
2 Night-Time Click-It or Ticket Enforcement Operations @ \$ 596.43	\$	1,192.86
Benefits for Deputy Sheriff @ 11.634%	\$	138.78
18 DUI/DL Safety Checkpoints @ \$10,393.92	\$	187,090.56
Benefits for Sergeant @ 11.634%	\$	3,497.27
Benefits for Deputy Sheriff @ 11.634%	\$	14,987.96
Benefits for CSO @ 11.634%	\$	2,700.16
Benefits for Dispatcher @ 11.634%	\$	580.75
	\$	-
	\$	-
Category Sub-Total	\$	325,407.69
B. TRAVEL EXPENSE		
In State	\$	-
Out of State	\$	-
Category Sub-Total	\$	-
C. CONTRACTUAL SERVICES		
Motivational Media Assembly - Power of 3	\$	3,200.00
	\$	-
	\$	-
Category Sub-Total	\$	3,200.00
D. EQUIPMENT		
	\$	-
	\$	-
	\$	-
	\$	-
	\$	-
Category Sub-Total	\$	-
E. OTHER DIRECT COSTS		
	\$	-
	\$	-
	\$	-
	\$	-
Category Sub-Total	\$	-
E. INDIRECT COSTS		
Personnel or Contractual Services @ _____%	\$	-
Category Sub-Total	\$	-
GRANT TOTAL	\$	328,607.69

This page intentionally left blank.

**SELECTIVE TRAFFIC ENFORCEMENT PROGRAM (STEP)
GRANTS MADE EASY (GME) GRANT APPLICATION
Federal Fiscal Year 2015
(10/1/14 - 9/30/15)**

APPLICATION TITLE: SELECTIVE TRAFFIC ENFORCEMENT PROGRAM (STEP)

AGENCY: RIVERSIDE COUNTY SHERIFF'S DEPARTMENT – CITY OF MORENO VALLEY

APPLICATION SUMMARY

To reduce the number of persons killed and injured in crashes involving alcohol and other primary collision factors, “best practice” strategies will be conducted. The funded strategies may include: DUI checkpoints, DUI saturation patrols, warrant service operations, stakeouts operations, a "HOT Sheet" program, and educational presentations. The program may also concentrate on speed, distracted driving, seat belt enforcement, operations at intersections with disproportionate numbers of traffic crashes, and special enforcement operations encouraging motorcycle safety. These strategies are designed to earn media attention thus enhancing the overall deterrent effect.

1. PROBLEM STATEMENT

The City of Moreno Valley contracts with the Riverside County Sheriff's Department for police services within its jurisdictional boundaries. Part of this contract includes a full service traffic division consisting of one Lieutenant, two Sergeants, 9 Sworn Motor Officers, 6 Sworn Accident Investigators, 5 Community Service Officers, and one Office Assistant. Eleven members of the team have completed Traffic Collision Reconstruction training and three are certified as Drug Recognition Experts. The staffing levels of the Moreno Valley Traffic Division have been reduced over the past 3 years due to budget restraints.

Between October 1, 2012 and September 30, 2013, our city had a total of 589 injury and fatal traffic collisions. During this same time period, our deputies wrote a total of 9932 hazardous citations. Our enforcement index is 16.8%. Our enforcement index in 2011 was 21.3%, giving us over a 5% drop in that time period.

Enforcement Index – An enforcement agency measure to reach a citation effectiveness threshold in reducing traffic collisions. To determine a department's enforcement index, divide the total hazardous citations by total fatal and injury traffic collisions. Northwest University has taught for years that a minimum traffic enforcement index of 25 is required to reach the citation threshold of effectiveness in reducing traffic collisions. If the city has a large number of out of town drivers, a traffic enforcement index in the 25 – 35 range may be more desirable. Out of town drivers are generally not reached through education and voluntary compliance programs. The recommended traffic enforcement index should be used as a guide only and not a hard and fast rule.

Hazardous Citation – Any moving violation considered a Primary Collision Factor, i.e. – speed violations, stop sign violations, red light violations, right of way violations, unsafe lane changes, etc... A hazardous citation does not include equipment/mechanical violations, driver's license/registration violations, open containers, etc...

The City of Moreno Valley's Traffic Division actively participates in the AVOID DUI Campaigns conducting DUI/Driver's License Checkpoints and Saturation Patrols. Currently, the Moreno Valley Police Department has 162 sworn personnel. All of the sworn deputies in the Traffic Division have attended the NHTSA Standardized Field Sobriety Test Training (SFST), the Advanced Roadside Impaired Driving Enforcement Training (ARIDE), Rev. 2/13/2014

and the Cavanaugh & Associates DUI Training. We are in the process of sending patrol deputies to these classes.

During the Federal Fiscal Year, October 1, 2012 to September 30, 2013, deputies in the Moreno Valley Police Department arrested 935 individuals for driving under the influence. Of those 935 DUI arrests, 171 (18.8%) were taken out of collision where the primary collision factor was driving under the influence. Our 2011 percentage of traffic collision DUI arrests was 14.9 which give us over a 4% rise in DUI collision related arrests.

The Moreno Valley Police Department also actively participates in the “Click It or Ticket” occupant restraint campaign and the statewide “Distracted Driving” campaign.

A. Traffic Data Summary:

Using local data (not OTS Rankings or SWITRS), complete the table below.

Collision Type	2011				2012				2013			
	Collisions		Victims		Collisions		Victims		Collisions		Victims	
Fatal	7		7		7		7		7		7	
Injury	553		841		566		526		526		801	
	Fatal	Injury	Killed	Injured	Fatal	Injury	Killed	Injured	Fatal	Injury	Killed	Injured
Alcohol - Involved	1	65	1	96	0	72	0	109	3	72	3	107
Hit & Run	0	36	0	55	0	54	0	75	1	39	1	52
Nighttime (2100-0259 hours)	1	63	1	110	1	76	1	116	4	70	4	116
Top 3 Primary Collision Factors									Fatal	Injury	Killed	Injured
#1 -	Unsafe Speed								1	109	1	173
#2 -	Auto Right of Way Violations								1	94	1	151
#3 -	Traffic Signs and Signals								0	87	0	163

2. PROPOSED SOLUTION

A. Strategies:

- The Moreno Valley Police Department will continue to enforce DUI and traffic safety laws in an attempt to reduce PCF violations and traffic collisions.
- The Moreno Valley Police Department will continue to utilize DUI/Driver’s License Checkpoints and Saturation Patrols to deter driving under the influence and unsafe driving practices.
- Maintaining our relationships with MADD, utilizing them at our checkpoints, and assisting them with their DUI programs will be another facet that will go towards the prevention of drunk driving.
- Sending patrol deputies through the various DUI training classes offered through OTS will increase the Moreno Valley Police Department’s enforcement effort by having more trained sworn officers on the street looking for DUI or other unsafe drivers.
- Working with our local media, the Moreno Valley Police Department can continue to “get the word out” about our efforts and penalties for DUI offenses.

- The Moreno Valley Police Department in cooperation with the local schools can continue to educate the youth of the dangers of driving under the influence.

B. Agency Qualifications:

The Moreno Valley Police Department has been managing grants obtained through OTS for at least 8 years and has a full time traffic bureau that is committed to this goal. The Moreno Valley Police Department is well suited to continue managing future grants obtained for DUI enforcement and traffic safety.

C. Program Sustainability:

The Moreno Valley Police Department has no other funding for these programs offered through OTS and relies solely on grant funds to conduct these operations. The Moreno Valley Police Department has obtained grants through OTS for DUI checkpoint operations as well as directed patrol through the step grants for at least 8 years, receiving over \$1,800,000.00. As we have seen the city grow in population during that time we have been able to save many lives through the implementation of these direct enforcement programs and the 6000 DUI arrests we have made.

3. PERFORMANCE MEASURES

A. Goals:

- 1) To reduce the number of persons killed in traffic collisions.
- 2) To reduce the number of persons injured in traffic collisions.
- 3) To reduce the number of persons killed in alcohol-involved collisions.
- 4) To reduce the number of persons injured in alcohol-involved collisions.
- 5) To reduce the number of persons killed in drug-involved collisions.
- 6) To reduce the number of persons injured in drug-involved collisions.
- 7) To reduce the number of motorcyclists killed in traffic collisions.
- 8) To reduce the number of motorcyclists injured in traffic collisions.
- 9) To reduce the number of motorcyclists killed in alcohol-involved collisions.
- 10) To reduce the number of motorcyclists injured in alcohol-involved collisions.
- 11) To reduce hit & run fatal collisions.
- 12) To reduce hit & run injury collisions.

- 13) To reduce nighttime (2100 - 0259 hours) fatal collisions.
- 14) To reduce nighttime (2100 - 0259 hours) injury collisions.
- 15) To reduce the number of bicyclists killed in traffic collisions.
- 16) To reduce the number of bicyclists injured in traffic collisions.
- 17) To reduce the number of pedestrians killed in traffic collisions.
- 18) To reduce the number of pedestrians injured in traffic collisions.

B. Objectives:

- 1) To develop and/or maintain a “HOT Sheet” program to notify patrol and traffic deputy sheriffs to be on the lookout for identified repeat DUI offenders with a suspended or revoked license as a result of DUI convictions by December 31. Updated HOT sheets should be distributed to patrol and traffic deputy sheriffs monthly.
- 2) To send 4 law enforcement personnel to the NHTSA Standardized Field Sobriety Testing (SFST) Training by March 31.
- 3) To send 4 law enforcement personnel to the NHTSA Advanced Roadside Impaired Driving Enforcement (ARIDE) 16 hour POST-certified training by March 31.
- 4) To send 4 law enforcement personnel to the IACP Drug Recognition Expert (DRE) training program by March 31.
- 5) To conduct a total of 18 DUI/DL Checkpoints as specified below:
 - a) 1 Avoid Winter Mobilization
 - b) 1 Avoid Memorial Day Campaign
 - c) 1 Avoid Independence Day Campaign
 - d) 1 Avoid Summer Mobilization
 - e) 14 Other dates during the grant year
- 6) To conduct a total of 15 DUI saturation patrols as specified below:
 - a) 1 Avoid Winter Mobilization
 - b) 1 Avoid Memorial Day Campaign
 - c) 1 Avoid Independence Day Campaign

- d) 1 Avoid Summer Mobilization
 - e) 1 Avoid Halloween Campaign
 - f) 1 Avoid Super Bowl Sunday Campaign
 - g) 1 Avoid St. Patrick's Day Campaign
 - h) 1 Avoid Cinco de Mayo Campaign
 - i) 7 Other dates during the grant year
- 7) To conduct 0 Court Sting operation(s) to cite individuals driving from court after having their driver's license suspended or revoked. (our local traffic court does not give us an opportunity to conduct these operations)
- 8) To conduct 3 Warrant Service operation(s) targeting multiple DUI offenders who violate probation terms or fail to appear in court.
- 9) To conduct 2 Stakeout operation(s) that employ police deputy sheriffs to observe the "worst of the worst" repeat DUI offender probationers with suspended or revoked driver licenses.
- 10) To conduct 0 highly publicized motorcycle safety DUI Saturation Patrol(s) in areas or during events with motorcycle incidents or collisions resulting from DUI drivers/motorcyclists.
- 11) To conduct 35 Traffic Enforcement operation(s), including but not limited to, primary collision factor violations.
- 12) To conduct 35 Distracted Driving enforcement operation(s) targeting drivers using hand held cell phones and texting.
- 13) To conduct 2 highly publicized Motorcycle Safety enforcement operation(s) in areas or during events with a high number of motorcycle incidents or collisions resulting from unsafe speed, DUI, following too closely, unsafe lane changes, improper turning, and other primary collision factor violations by motorcyclists and other drivers.
- 14) To conduct 2 night-time Click It or Ticket enforcement operations.
- 15) To conduct 4 Traffic Safety educational presentations impacting 240 community members. *Note: presentations may include topics such as distracted driving, DUI, speed, seatbelts and child passenger safety.*
- 16) To participate in the National Distracted Driving Awareness Month in April.
- 17) To participate in the Statewide Click It or Ticket mobilization period in May.

- 18) To conduct 20 speed enforcement operations in identified areas of high bicycle and pedestrian traffic.
- 19) To establish a comprehensive continuing public education program to reduce bicycle and pedestrian collisions.
- 20) To collaborate with the county's Avoid Coalition by: participating in all planning/scheduling meetings and MADD/Avoid DUI Seminars; providing your agency's schedule of operations that occur during any Avoid campaign; and reporting your agency's DUI arrests & DUI fatality information during any Avoid campaign.

4. METHOD OF PROCEDURE

A. Phase 1 - Program Preparation, Training and Implementation (1st Quarter of Grant Year)

- The police department will develop operational plans to implement the “best practice” strategies outlined in the objectives section.
- All training needed to implement the program should be conducted this quarter.
- All grant related purchases needed to implement the program should be made this quarter.
- In order to develop/maintain the “Hot Sheets,” research will be conducted to identify the “worst of the worst” repeat DUI offenders with a suspended or revoked license as a result of DUI convictions. The Hot Sheets may include the driver's name, last known address, DOB, description, current license status, and the number of times suspended or revoked for DUI. Hot Sheets should be updated and distributed to traffic and patrol deputy sheriffs at least monthly.
- Implementation of the STEP grant activities will be accomplished by deploying personnel at high collision locations.

Media Requirements

- Issue a press release announcing the kick-off of the grant by November 15. The kick-off press releases and media advisories, alerts, and materials must be emailed to the OTS Public Information Officer at pio@ots.ca.gov, and copied to your OTS Coordinator, for approval 14 days prior to the issuance date of the release.

B. Phase 2 - Program Operations (Throughout Grant Year)

- The police department will work to create media opportunities throughout the grant period to call attention to the innovative program strategies and outcomes.

Media Requirements

- Send all grant-related activity press releases, media advisories, alerts and general public materials to the OTS Public Information Officer (PIO) at pio@ots.ca.gov, with a copy to your OTS Coordinator.
 - a) If an OTS template-based press release is used, the OTS PIO and Coordinator should be copied when the release is distributed to the press. If an OTS template is not used, or is substantially changed, a draft press release should first be sent to the OTS PIO for approval. Optimum lead time would be 10-20 days prior to the release date to ensure adequate turn-around time.
 - b) Press releases reporting the results of grant activities such as enforcement operations are exempt from the recommended advance approval process, but still should be copied to the OTS PIO and Coordinator when the release is distributed to the press.
 - c) Activities such as warrant or probation sweeps and court stings that could be compromised by advanced publicity are exempt from pre-publicity, but are encouraged to offer embargoed media coverage and to report the results.
- Use the following standard language in all press, media, and printed materials: Funding for this program was provided by a grant from the California Office of Traffic Safety, through the National Highway Traffic Safety Administration.
- Email the OTS PIO at pio@ots.ca.gov and copy your OTS Coordinator at least 30 days in advance, a short description of any significant grant-related traffic safety event or program so OTS has sufficient notice to arrange for attendance and/or participation in the event.
- Submit a draft or rough-cut of all printed or recorded material (brochures, posters, scripts, artwork, trailer graphics, etc.) to the OTS PIO at pio@ots.ca.gov and copy your OTS Coordinator for approval 14 days prior to the production or duplication.
- Include the OTS logo, space permitting, on grant-funded print materials; consult your OTS Coordinator for specifics.

C. Phase 3 – Data Collection & Reporting (Throughout Grant Year)

- Agencies are required to collect and report quarterly, appropriate data that supports the progress of goals and objectives.
- Statistical data relating to the grant goals and objectives will be collected, analyzed, and incorporated in Quarterly Performance Reports (QPRs). QPRs for the quarter ending September 30 will include year-to-date comparisons of goals and objectives. If required, a separate quarterly data reporting form will be completed each quarter and submitted as part of the QPR.
- Reports will compare actual grant accomplishments with the planned accomplishments. They will include information concerning changes made by the Grant Director in planning and guiding the grant efforts.

- Reports shall be completed and submitted in accordance with OTS requirements as specified in the Grant Program Manual.

5. METHOD OF EVALUATION

Using the data compiled during the grant, the Grant Director will prepare the Executive Summary to accompany the final QPR. The Executive Summary will: (1) briefly state the original problem; (2) specify the most significant goals and objectives; (3) highlight the most significant activities that contributed to the success of the program and the strategies used to accomplish the goals and objectives; and (4) describe the program's accomplishments as they relate to the goals and objectives.

6. ADMINISTRATIVE SUPPORT

This program has full support of the city of Moreno Valley/County of Riverside. Every effort will be made to continue the activities after the grant conclusion.

BUDGET NARRATIVE

The Budget Narrative should provide line item descriptions that include grant relationship and/or examples of costs. It covers all cost categories and individual line items in the same order as the Detailed Budget Estimate.

1. PERSONNEL COSTS

Distracted Driving Enforcement

For each (35) Distracted Driving Enforcement Operation, we have budgeted a minimum of one deputy sheriff and a maximum of three deputy sheriffs working three hours of overtime focusing on cellphone violations, both talking and texting, and any other distracted driving violations.

The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. 35 operations x 3 hours each x 3 deputy sheriffs = \$23,303.66

DUI Saturation Patrols

For each (15) DUI saturation patrol, we have budgeted a minimum of one deputy sheriff and a maximum of three deputy sheriffs and one community service officer to work a six hour shift, to start no earlier than 1900 hours. The purpose of this overtime is to focus on apprehending DUI drivers.

The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. The rate of pay for each community service officer working on this overtime assignment is \$42.98 with an additional 11.634% in benefits for a total of \$47.98 per hour. 15 operations x 6 hours each x 3 deputy sheriffs and 1 community services officer = \$24,292.79

Traffic Enforcement Overtime Operations

For each (35) Traffic Enforcement Operation, we have budgeted a minimum of one deputy sheriff and a maximum of three deputy sheriffs working three hours of overtime focusing on primary collision factor violations.

The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. 35 operations x 3 hours each x 3 deputy sheriffs = \$23,303.66

Motorcycle Safety Enforcement Operations

For each (2) Motorcycle Safety Enforcement Operation, we have budgeted a minimum of one deputy sheriff and a maximum of four deputy sheriffs working three and a half hours of overtime focusing on safety of motorcyclists.

The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. 2 operations x 3.5 hours each x 4 deputy sheriffs = \$2,071.44

DUI Stakeout Operations

For each (2) DUI Stakeout Operation, we have budgeted four deputy sheriffs to work a six hour shift. The purpose of this overtime is to focus on apprehending repeat DUI offenders who drive on a suspended license.

The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. 2 operations x 6 hours each x 4 deputy sheriffs = \$3,551.04

DUI Warrant Service Operations

For each (3) DUI Warrant Service Operation, we have budgeted two sergeants, twelve deputy sheriffs, two community service deputy sheriffs and one dispatcher to work an eight hour shift. The purpose of this overtime is to focus on apprehending DUI offenders who fail to appear in court.

The rate of pay for each sergeant working on this overtime assignment is \$92.78 with an additional 11.634% in benefits for a total of \$103.58 per hour. The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. The rate of pay for each community service officer working on this overtime assignment is \$42.98 with an additional 11.634% in benefits for a total of \$47.98 per hour. The rate of pay for each dispatcher working on this overtime assignment is \$46.22 with an additional 11.634% in benefits for a total of \$51.60 per hour. 3 operations x 8 hours each x 2 sergeants, 12 deputy sheriffs, 2 community service officers, and one dispatcher = \$29,819.17

Speed Enforcement Pedestrian/Bicycle Operation

For each (20) Speed Enforcement Pedestrian/Bicycle Operation, we have budgeted two deputy sheriffs to work a three hour shift. The purpose of this overtime is to focus on reducing collisions involving pedestrian and bicyclists.

The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. 20 operations x 3 hours each x 2 deputy sheriffs = \$8,877.59

Night-Time Click It or Ticket Enforcement Operations

For each (2) Night-Time Click It or Ticket Enforcement Operations we have budgeted a minimum of one deputy sheriff and a maximum of three deputy sheriffs working three hours of overtime focusing on seatbelt violations.

The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. 2 operations x 3 hours each x 3 deputy sheriffs = \$1,331.64

DUI/DL Safety Checkpoints

For each (18) DUI/DL Safety Checkpoints, we have budgeted three sergeants, eighteen deputy sheriffs, five community service deputy sheriffs and one dispatcher to work a six hour shift. The purpose of this overtime is to reduce the number of victims killed and injured in alcohol-involved crashes and driving without a valid license.

The rate of pay for each sergeant working on this overtime assignment is \$92.78 with an additional 11.634% in benefits for a total of \$103.58 per hour. The rate of pay for each deputy sheriff working on this overtime assignment is \$66.27 with an additional 11.634% in benefits for a total of \$73.98 per hour. The rate of pay for each community service officer working on this overtime assignment is \$42.98 with an additional 11.634% in benefits for a total of \$47.98 per hour. The rate of pay for each dispatcher working on this overtime assignment is \$46.22 with an additional 11.634% in benefits for a total of \$51.60 per hour. 18 operations x 6 hours each x 3 sergeants, 18 deputy sheriffs, 5 community service officers, and 1 dispatcher = \$208,856.70

2. TRAVEL EXPENSE

None Requested

3. CONTRACTUAL SERVICES

Motivational Media Assembly – Power of 3

Motivational Media Assemblies (MMA) an international leader in all-school “assembly” events features clips from today’s most popular movies, music videos and sports footage. Motivational Media Assemblies are generating the highest student response to character-education and responsibility-improvement messages. Themes included in the media assembly are traffic safety, DUI driving, distracted driving, decision-making, conflict resolution, drug prevention and personal excellence. We would like to show this assembly to our local high school students.

4. EQUIPMENT (\$5,000 OR MORE PER UNIT)

None Requested

5. OTHER DIRECT COSTS

None

6. INDIRECT COSTS

None

SUBMISSION INSTRUCTIONS

Application packet to be received on or postmarked by the posted deadline (refer to OTS homepage www.ots.ca.gov).

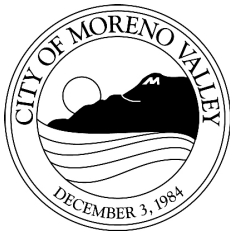
Completed application packet includes:

- OTS-136 Grant Application Cover Sheet and Budget.
- OTS-136a Grant Application
- Letters of Support (optional)

Submit three signed hardcopies (one original, two photocopies) of your application packet to:

California Office of Traffic Safety
2208 Kausen Drive, Suite 300
Elk Grove, CA 95758

OTS may contact the authorized representative to request an electronic copy of the application.



APPROVALS	
BUDGET OFFICER	
CITY ATTORNEY	<i>JMB</i>
CITY MANAGER	<i>[Signature]</i>

Report to City Council

TO: Mayor and City Council

FROM: Ahmad R. Ansari, P.E., Public Works Director/City Engineer

AGENDA DATE: February 25, 2014

TITLE: AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING SECTIONS 2.25.010 AND 2.25.020 OF TITLE 2 OF THE CITY OF MORENO VALLEY MUNICIPAL CODE RELATING TO THE COMPOSITION OF THE UTILITIES COMMISSION

RECOMMENDED ACTION

Recommendations: That the City Council:

1. Introduce Ordinance No. 873. An Ordinance of the City Council of the City of Moreno Valley, California amending sections 2.25.010 and 2.25.020 of Title 2 of the City of Moreno Valley Municipal Code relating to the composition of the Utilities Commission.

SUMMARY

This report recommends that the Council consider the Finance Sub-Committee's recommendation to amend the composition of the Utilities Commission. This change will require approval of the proposed Ordinance amending sections 2.25.010 and 2.25.020 of Title 2 of the City of Moreno Valley Municipal Code. As it is presently written, Municipal Code sections 2.25.010 and 2.25.020 state that the Utilities Commission shall consist of three city council-appointed members serving without compensation. Two members must be Moreno Valley Utility customers; one of the two Moreno Valley Utility customers must be a business customer. The proposed Ordinance will increase the number of Utilities Commission members from three to five.

DISCUSSION

The Finance Sub-Committee expressed concern that a three-member Commission will not lend itself to be an effective advisory body in terms of convening a quorum on a regular basis, and that an increase in the number of Utilities Commissioners would provide greater community representation for input on utility matters. Therefore City staff is recommending amending section 2.25.010 to state that the Commission shall consist of five members, and that the terms of the members first appointed to the Commission shall be set by lot, with one member serving one year, two members serving for two years, and two members serving for three years. Thereafter, all terms shall be for three years. City staff is also recommending that section 2.25.020 be amended to state that the Commission shall be composed of five public members.

ALTERNATIVES

1. Approve the proposed Ordinance, an Ordinance of the City Council of the City of Moreno Valley, California amending sections 2.25.010 and 2.25.020 of Title 2 of the City of Moreno Valley Municipal Code. This alternative is recommended by staff. Approval will allow for greater community representation and input on utility matters.
2. Do not approve the proposed Ordinance, an Ordinance of the City Council of the City of Moreno Valley, California amending sections 2.25.010 and 2.25.020 of Title 2 of the City of Moreno Valley Municipal Code. This alternative is not recommended by City staff.

FISCAL IMPACT

There is no fiscal impact associated with the proposed action.

CITY COUNCIL GOALS

POSITIVE ENVIRONMENT:

Increasing the representation on the Utilities Commission helps to create a positive environment within the community.

NOTIFICATION

Publication of the agenda.

ATTACHMENTS

Attachment 1: Proposed Ordinance

Prepared By:
Jeannette Olko
Electric Utility Division Manager

Department Head Approval:
Ahmad R. Ansari, P.E.
Public Works Director/City Engineer

ORDINANCE NO. 873

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING SECTIONS 2.25.010 AND 2.25.020 OF TITLE 2 OF THE CITY OF MORENO VALLEY MUNICIPAL CODE RELATING TO THE COMPOSITION OF THE UTILITIES COMMISSION

The City Council of the City of Moreno Valley does ordain as follows:

SECTION 1: AMENDMENT OF SECTIONS 2.25.010 AND 2.25.020 OF CHAPTER 2.25 OF TITLE 2 OF THE MORENO VALLEY MUNICIPAL CODE:

1.1 Sections 2.25.010 and 2.25.020 of Chapter 2.25 of Title 2 of the City of Moreno Valley Municipal Code are hereby amended to read as follows:

“Section 2.25.010 Created.

There is created a utilities commission for the city. It shall consist of five city council-appointed members serving without compensation, and appointed in the manner and for the terms prescribed in Sections 2.04.060 and 2.06.010, respectively, of this code, except that the terms of the members first appointed to the utilities commission shall be set by lot, with one member serving for one year after the effective date of their appointment, two other members serving for two years after the effective date of their appointment, and the two remaining members serving for three years after the effective date of their appointment. Thereafter, all terms shall be for three years and shall expire three years after the effective date of the appointment; provided, however, that the term of an appointment made to fill an unexpired term shall be for the unexpired balance of such term.

Section 2.25.020 Composition.

The utilities commission shall be composed of five public members, of which at least two members must be Moreno Valley Utility customers. Of the two members that are Moreno Valley Utility customers, one member must be a business customer of Moreno Valley Utility. It is not required that the utilities commission members be a resident of the City of Moreno Valley. All members shall each have the ability to evaluate utility issues.

SECTION 2: EFFECT OF ENACTMENT:

Except as specifically provided herein, nothing contained in this ordinance shall be deemed to modify or supersede any prior enactment of the City Council which addresses the same subject addressed herein.

SECTION 3: NOTICE OF ADOPTION:

Within fifteen days after the date of adoption hereof, the City Clerk shall certify to the adoption of this ordinance and cause it to be posted in three public places within the city.

SECTION 4: EFFECTIVE DATE:

This ordinance shall take effect thirty days after the date of its adoption.

APPROVED AND ADOPTED this 11th day of March, 2014.

Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

ORDINANCE JURAT

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, do hereby certify that Ordinance No. 873 had its first reading on February 25, 2014 and had its second reading on March 11, 2014, and was duly and regularly adopted by the City Council of the City of Moreno Valley at a regular meeting thereof held on the 11th day of March, 2014, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Council Members, Mayor Pro Tem and Mayor)

CITY CLERK

This page intentionally left blank.