



AGENDA
March 2, 2016

CITY COUNCIL MEETING
7:00 p.m.
City Council Chambers
311 Vernon Street
Roseville, California

1. CALL TO ORDER

2. ROLL CALL

Councilmember: Bonnie Gore
Vice Mayor: Susan Rohan
Councilmember: Tim Herman
Councilmember: Pauline Roccucci
Mayor: Carol Garcia

3. PLEDGE OF ALLEGIANCE

4. MEETING PROCEDURES

NOTICE TO THE PUBLIC

All Items on the agenda will be open for the public comment before final action is taken. Speakers are requested to restrict comments to the item as it appears on the agenda and stay within a five (5) - minute time limit. The Mayor has the discretion of limiting the total discussion time for an item.

5. PRESENTATIONS

5.1. Resolution of Commendation and Appreciation to Bill McAnally

Bill McAnally be commended for a successful business history and notable contributions to the Roseville community.

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

6. PUBLIC COMMENTS

NOTICE TO THE PUBLIC

Persons may address the City Council on items not on this agenda. Please complete a "Speaker Information Card" and present it to the City Clerk prior to the start of the meeting. Speakers shall restrict their comments to issues that are within the subject jurisdiction of the City Council and limit their comments to three (3) minutes per person. The total time allocated for Public Comment is 25 minutes. The Brown Act, with certain exceptions, does not permit the City Council to discuss or take action on issues that are not listed on the agenda.

7. CONSENT CALENDAR

NOTICE TO THE PUBLIC

All matters listed under Consent Calendar are considered to be routine and all will be passed by one motion. There will be no discussion of these items unless members of the City Council or the public request specific items be removed from the Consent Calendar for separate discussion. Any member of the public may address the City Council on items on the Consent Calendar. Public comments on any item or items on the Consent Calendar are limited to five (5) minutes per speaker

BEGINNING OF CONSENT CALENDAR

Minutes

7.1. Minutes of Prior Meetings

November 5, 2015 City Council Special Closed Session, November 18, 2015 City Council Special Legislative Platform Workshop, November 18, 2015 City Council Meeting, December 16, 2015 City Council Special Closed Session, December 16, 2015 City Council Closed Session/City Council/Housing Authority Meeting.

CC #: 7473

File #: 0102-03

CONTACT: Sonia Orozco 774-5263 sorozco@roseville.ca.us

Bids / Purchases / Services

7.2. Distribution Transformers - Purchase Orders

Memo from Buyer Peter Brevik and Central Services Director Paul Diefenbach recommending Council approve the renewal of open purchase orders to General Pacific, Central Moloney Inc., Pacific Utilities, and Anixter Power Solutions (formerly HD Supply Power Solutions) for the Electric Department's annual requirement of distribution transformers. The purpose of the transformer is to convert power to a lower voltage to be used in homes and businesses. Transformers are bought and stored in the Central Stores yard until needed for projects. This renewal reflects the second of four optional renewal years. The vendors have performed satisfactorily and in accordance with the terms and conditions of the bid. The total cost for the Electric Department's annual requirement of transformers is \$700,000.00. Funding is included in the Central Stores Inventory Replacement

Account for the current fiscal year and pending Council approval of budgets for next fiscal year.

CC #: 7485

File #: 0203-07-02

CONTACT: Peter Brevik 774-5724 pbrevik@roseville.ca.us

Resolutions

7.3. 3701 Old Auburn Road - Surplus Property Determination and Purchase and Sale Agreement

Memo from Development Services Manager Mike Isom and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-72 DECLARING A PORTION OF PROPERTY AT 3701 OLD AUBURN ROAD TO BE UNUSABLE, APPROVING A PURCHASE AND SALE AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND TL CREEKSIDE, LP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of a resolution determining 271 square feet of City-owned property as surplus and unusable except by the owner of adjoining privately owned real property, and a resolution authorizing the City Manager to execute a purchase and sale agreement with TL Creekside, LP for sale of said property. The proposed sale would result in net proceeds to the City's Traffic Mitigation Fund of \$1,628.00.

CC #: 7489

File #: 1003

CONTACT: Mike Isom 774-5527 misom@roseville.ca.us

7.4. Fiddymment Ranch Phase 2 Village F-9-A1 - Certificate of Completion

Memo from Construction Inspector Orville Chatterton and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-66 ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE F-9-A1 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made a final inspection of the project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications. The right of way, public utility, and drainage easements will be conveyed to the City by separate document and will be recorded concurrently with the Certificate of Completion. There is no fiscal impact to the General Fund as improvements have been funded by the developer.

CC #: 7468

File #: 0400-04-09-1

CONTACT: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

7.5. 2016 Weed Abatement

Memo from Fire Inspection Supervisor Rob Arnett and Fire Chief Rick Bartee recommending Council adopt RESOLUTION NO. 16-69 OF THE COUNCIL OF THE CITY OF ROSEVILLE DECLARING ALL WEEDS, DIRT, RUBBISH OR RANK GROWTHS WITHIN THE CITY OF ROSEVILLE TO BE A PUBLIC NUISANCE; ORDERING THE FIRE CHIEF TO GIVE NOTICE OF THE PASSAGE OF THIS RESOLUTION; AND SETTING A TIME AND PLACE FOR HEARING ANY OBJECTIONS TO THE PROPOSED DESTRUCTION OR REMOVAL OF SUCH WEEDS, DIRT, RUBBISH, OR RANK GROWTHS. To initiate the 2016 Weed Abatement Program, staff recommends approval of a resolution declaring weeds, rubbish, dirt, and/or rank growth within the City of Roseville to be a public nuisance, as well as ordering the Fire Chief to give notice of the passage and setting a time and place for the required public hearing. The public hearing will be scheduled for the City Council meeting on Wednesday, March 16, 2016. Each year all vacant parcels are identified and property owners are notified of their obligation to maintain adequate fire breaks as a fire protection/prevention measure. Property owners are given an opportunity to abate hazards that exist on their parcels. The City only conducts abatement activities on private parcels once the owner has failed to abate the hazard by a pre-determined date specified by the Fire Department. Abatement costs related to private properties are billed to the respective property owners. Owners of private parcels that are abated by the City are responsible for the costs associated with providing abatement services. A bill is sent to each property owner detailing the abatement costs, as well as an administrative fee. If the property owner fails to pay the bill, the City places a lien on the subject property and the monies owed are reimbursed through the property tax collection process.

CC #: 7496

File #: 0320-01

CONTACT: Rob Arnett 774-5827 rarnett@roseville.ca.us

7.6. Fiddymment Ranch Phase 2 Village F-9A2 - Certificate of Completion

Memo from Construction Inspector Orville Chatterton and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-67 ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE F-9-A2 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made a final inspection of the project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications. The right of way, public utility, and drainage easements will be conveyed to the City by separate document and will be recorded concurrently with the Certificate of Completion. There is no fiscal impact to the General Fund as improvements have been funded by the developer.

CC #: 7469

File #: 0400-04-09-1

CONTACT: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

7.7. Fiddymment Ranch Phase 2 Village F-19A2 - Certificate of Completion

Memo from Construction Inspector Orville Chatterton and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-64 ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE F-19-A2 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made a final inspection of the project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications. The right of way, public utility, and drainage easements will be conveyed to the City by separate document and will be recorded concurrently with the Certificate of Completion. There is no fiscal impact to the General Fund as improvements have been funded by the developer.

CC #: 7466

File #: 0400-04-09-1

CONTACT: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

7.8. Fiddymment Ranch Phase 2 Village F-19B2 - Certificate of Completion

Memo from Construction Inspector Orville Chatterton and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-65 ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE F-19-B2 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made a final inspection of the project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications. The right of way, public utility, and drainage easements will be conveyed to the City by separate document and will be recorded concurrently with the Certificate of Completion. There is no fiscal impact to the General Fund as improvements have been funded by the developer.

CC #: 7467

File #: 0400-04-09-1

CONTACT: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

7.9. Design and Construction Standards 2016 Amendment

Memo from Senior Engineer Guy Howes and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-75 ADOPTING THE REVISED DESIGN/CONSTRUCTION STANDARDS. Staff has updated the City's 2013 Design and Construction Standards document by including the 2014 annual amendment and recommended revisions from 2015. Staff has reprinted the entire document to present the 2016 Edition for Council adoption.

Annual amendments are posted on the City's website, total reprints occur every 3-5 years. There is no financial impact to this update, as the document will be posted on the City's website and all printing will be conducted by an outside vendor and paid for by document subscribers.

CC #: 7492

File #: 0800-06

CONTACT: Guy Howes 774-5430 ghowes@roseville.ca.us

7.10. Republican Alley 12" Water Main Slip Line Project- Notice of Completion

Memo from Associate Engineer Edward Winston and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 16-68 ACCEPTING THE PUBLIC WORK KNOWN AS THE REPUBLICAN ALLEY 12" WATER MAIN SLIP LINE PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The City Environmental Utilities Department finished final inspection of the project and found the work to be completed in accordance with the improvement plans and specifications and is now ready for acceptance. The total cost of the construction contract was \$575,141.57. The project was funded under the Water Rehabilitation Fund.

CC #: 7472

File #: 0900-02

CONTACT: Edward Winston 774-5566 ewinston@roseville.ca.us

7.11. Douglas Substation Stormwater Permitting and Inspections - Service Agreement Amendment

Memo from Senior Power Engineer Chris Porter and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 16-73 APPROVING A FIRST AMENDMENT TO SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND WALLACE-KUHL & ASSOCIATES, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1504332). The service agreement with Wallace-Kuhl and Associates is necessary to maintain compliance with the Stormwater Pollution Prevention Plan and Construction General Permit at Douglas Substation for the first phase of construction. The amendment to this service agreement will provide the funding required to continue inspection activities through completion of construction. This amendment will increase the agreement by \$15,000.00 for a total of \$33,987.50. Funds are available in the Douglas Substation Rehabilitation Capital Improvement Project in FY2015/16.

CC #: 7490

File #: 0800-03

CONTACT: Chris Porter 774-5615 cporter@roseville.ca.us

7.12. Atlantic Street/Eureka Road/Westbound I-80 On-Ramp Widening Project - Cooperative Agreement

Memo from Associate Engineer Hossein Naghibzadeh and Public Works Director

Rhon Herndon recommending Council adopt RESOLUTION NO. 16-74 APPROVING A COOPERATIVE AGREEMENT BETWEEN CITY OF ROSEVILLE AND STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Approval and execution of a Cooperative Agreement between the City of Roseville and The State of California Department of Transportation (Caltrans) for the Atlantic Street/Eureka Road/Westbound I-80 On-Ramp Improvement Project. \$600,000.00 in Traffic Mitigation Funds were previously approved at the July 15, 2015 Council meeting for the Preliminary Engineering and Environmental phase of the project. These funds will be reimbursed by the South Placer Regional Transportation Authority as funds become available. Funding for the final design and construction will be provided by Caltrans. No General Funds will be used for this work.

CC #: 7491

File #: 0900-04-02

CONTACT: Hossein Naghibzadeh 746-1300 hnaghibzadeh@roseville.ca.us

7.13. Programming Services and Process Control Standards Update - Professional Services Agreement Amendment

Memo from EIM Systems Coordinator Charles Aycock and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 16-77 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND EMA, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests adoption of a resolution authorizing the City Manager to execute the Professional Services Agreement Amendment 1, with EMA, Inc. The additional cost for this amendment is \$18,490.00 and will be split between three approved Capital Improvement Projects (CIP). The Intertie construction project CIP 143001, which is funded by the Water Construction Fund and will fund task 7, totaling \$5,300.00. The Process Control Standards CIPs 073508 and 073002 are funded by the South Placer Wastewater Authority partners and Water Construction Funds, respectively, and are the funding source for task #8 for \$13,190.00.

CC #: 7495

File #: 0800-02

CONTACT: Charles Aycock 746-1887 caycock@roseville.ca.us

7.14. HP Campus Oaks Community Facilities District Funding, Construction and Acquisition Agreement

Memo from Administrative Analyst Jeannine Thrash and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 16-76 APPROVING FUNDING, CONSTRUCTION AND ACQUISITION AGREEMENT IN CONNECTION WITH HP CAMPUS OAKS COMMUNITY FACILITIES DISTRICT NO. 1 (PUBLIC FACILITIES). On September 22, 2015, the City Council adopted Resolution No. 15-443, which formed HP Campus Oaks Community Facilities

District ("CFD") No. 1. The resolution being requested for approval pertains to the HP Campus Oaks Funding, Construction and Acquisition Agreement. The purpose of the Acquisition Agreement is to provide agreement between the City and the Developer, BBC Roseville Oaks, LLC (BBC), as to the use of the proceeds of the bonds for the acquisition of public facilities authorized to be financed by the CFD by setting forth the mechanics and requirements for reimbursement to BBC of costs incurred for the public facilities. There is no fiscal impact to the City's General Fund.

CC #: 7494

File #: 0206-03-01

CONTACT: Jeannine Thrash 774-5473 jthrash@roseville.ca.us
Monty Hanks 774-5313 mhanks@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

7.15. Accela Hardware Purchase - Budget Adjustment

Memo from Administrative Analyst Brandy LeBeau and Development Services Director Kevin Payne recommending Council adopt ORDINANCE NO. 5637 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The purchase of Accela hardware to support mobile office in the field for both the Development Services Engineering and Building Division may not occur in FY16. This is a request to transfer budgeted FY16 funds in the amount of \$43,000.00 to the Accela Capital Improvement Project to ensure the funding is available when the purchase needs to take place. This funding is approved under the FY16 Budget and does not have any impact on the General Fund.

CC #: 7481

File #: 0201-01 & 0203-06

CONTACT: Brandy LeBeau 774-5278 blebeau@roseville.ca.us

7.16. Fiddymment House Improvements - Budget Adjustment

Memo from Park Planning & Development Superintendent Tara Gee and Parks, Recreation & Libraries Director Dion Louthan recommending Council adopt ORDINANCE NO. 5640 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This budget adjustment is to address security concerns related to two former Fiddymment Houses on City property in West Roseville. The budget adjustment requests approval of \$271,000.00 split between the Public Facilities Fund and the West Roseville City-Wide Park Fund.

CC #: 7486

File #: 0201-01 & 0717-01

CONTACT: Tara Gee 774-5253 tgee@roseville.ca.us

7.17. Water Contracting Support - Professional Services Agreement Amendment and

Budget Adjustment

Memo from Business Services Administrator Carol Margetich and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 16-71 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MUNICIPAL CONSULTING GROUP, LLP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 5641 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The City has contracted with Municipal Consulting for support responding to Bureau of Reclamation (USBR) cost allocation, rate setting and financial management. The USBR has proposed actions that warrant supplemental efforts on the part of both staff and consultant services. Staff is requesting the proposed amendment to the existing contract for continued support on USBR water rate, budget and financial issues including review and constructing a joint regional solution to proposed policies for Warren Act rates, assessing impacts to water rates of future CVPIA and Cal WaterFix related costs, and strategies for involvement in Reclamation's budget formulation process. The budget adjustment in the amount of \$88,400.00 is included in the Environmental Utilities Water Operations Fund.

CC #: 7488

File #: 0201-01 & 0800-02

CONTACT: Carol Margetich 746-1712 cmargetich@roseville.ca.us

7.18. Staffing and Salary Schedule Changes

Memo from Senior Human Resources Analyst Linda Hampton and Human Resources Director recommending Council adopt ORDINANCE NO. 5642 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5626, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY THE INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY ENGINEERS, LOCAL 39, AS AMENDED BY APPENDIX "B" TO BE EFFECTIVE MARCH 5, 2016, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 5643 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5613, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "B" TO BE EFFECTIVE MARCH 5, 2016, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 5644 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5614, THE SALARY ORDINANCE FOR CITY COUNCIL APPOINTED POSITIONS, AS AMENDED BY APPENDIX "B" TO BE EFFECTIVE MARCH 5, 2016, AS AN URGENCY MEASURE; and approve the City-wide allocation schedule effective March 5, 2016. Staff recommends the City Council approve Local 39 A & B and Management A & B salary schedules to reflect the deletions of classifications E-Government Analyst I/II, IT Planning and Policy Analyst I/II, IT Planning and Policy Supervisor, and Building Maintenance Supervisor as these classifications are no longer being utilized by the City. Staff is also recommending Council approve an allocation schedule reflecting the deletion of 6.5 vacant allocations and increasing a Payroll Clerk 0.5 FTE to a 0.6 FTE in the Finance department and reclassifying a

vacant Office Assistant allocation to an Administrative Technician allocation in the Electric Department. In addition, to correct an administrative error, staff is requesting Council approve the City Council Appointed Positions (CCAP) salary schedule to correctly reflect already approved salary increases effective January 9, 2016. The CCAP increases are included in the budget. The proposed allocation changes for Finance and Electric will result a fiscal impact of \$9,874.00 which can be absorbed in the FY16 Budget.

CC #: 7497

File #: 0600-01

CONTACT: Linda Hampton 774-5215 lhampton@roseville.ca.us

Ordinances (for second reading and adoption)

7.19. Second Reading of Ordinance - Municipal Code Amendment - Streets and Sidewalks

ORDINANCE NO. 5638 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 13.08.050, 13.08.060, AND 13.08.070 OF CHAPTER 13.08 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING STREET, SIDEWALK, CURB AND GUTTER CONSTRUCTION, AMENDING SECTIONS 13.26.080 AND 13.26.090 OF CHAPTER 13.26 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING BRIDGE CROSSINGS AND MAJOR THOROUGHFARES, AND AMENDING SECTIONS 13.28.020, 13.28.030, 13.28.040, 13.28.050, 13.28.060, 13.28.070, 13.28.090, 13.28.100 AND 13.28.130 OF CHAPTER 13.28 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING CONSTRUCTION IN PUBLIC STREETS, for second reading and adoption.

CC #: 7483

File #: 0800-06

CONTACT: Guy Howes 774-5430 ghowes@roseville.ca.us

7.20. Second Reading of Ordinance - Municipal Code Amendment - Annual Adjustment to Bid Amount

ORDINANCE NO. 5639 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 4.12.090(A), 4.12.095(A) AND 4.12.100 OF CHAPTER 4.12 OF TITLE 4 REGARDING FORMAL BIDDING, for second reading and adoption.

CC #: 7484

File #: 0500-01

CONTACT: Gretchen Hakala 774-5325 ghakala@roseville.ca.us

Reports / Requests

7.21. Out of State Travel Request - Electric Department

Memo from Electric Utility Director Michelle Bertolino requesting Council approve out of state travel for Electric Utility Director Michelle Bertolino to attend the Northwest Public Power Association's Training and Workforce Development

Planning meeting on March 24, 2016 in Vancouver, Washington. Total estimated cost of this travel is \$600.00 and funds are available in the Electric Department FY16 Operating budget.

CC #: 7470

File #: 0600-02

CONTACT: Michelle Bertolino 774-5636 mbertolino@roseville.ca.us

7.22. Out of State Travel Request - Electric Department

Memo from Line Construction Supervisor Tom Pontes and Electric Utility Director Michelle Bertolino recommending Council authorize out of state travel for Roseville Electric employees to participate in the American Public Power Association Public Power Lineworkers Rodeo in Minneapolis, Minnesota from May 31-April 3, 2016. The International Brotherhood of Electrical Workers Local 1245 has agreed to fund all travel and conference costs for one participant team consisting of three Journeyman Line Technicians. Roseville Electric will fund remaining travel and conference costs for the second Lineman team; three Journeyman Line Technicians, and the Operations Manager and Line Construction Supervisor. Funds are available in the Roseville Electric FY2015/16 Budget to cover the cost of the trip.

CC #: 7476

File #: 0600-02

CONTACT: Tom Pontes 774-5550 tpontes@roseville.ca.us

7.23. Out of State Travel Request - Environmental Utilities Department

Memo from Business Services Administrator Carol Margetich and Environmental Utilities Director Richard Plecker recommending Council approve out of state travel for one Administrative Analyst to attend the Government Finance Officers Association Data Analysis course in Seattle, Washington, from April 7, 2016 to April 8, 2016. Travel costs are estimated at \$2,000.00 and funding is included in the FY16 Environmental Utilities Admin Budget

CC #: 7477

File #: 0600-02

CONTACT: Carol Margetich 746-1712 cmargetich@roseville.ca.us

7.24. Out-of-State Travel - Public Affairs & Communications Department

Memo from Public Affairs & Communications Director Megan MacPherson recommending Council approve out of state travel for Public Affairs & Communications Director Megan MacPherson to participate in the annual Capitol-to-Capitol legislative advocacy program in Washington, D.C. April 8-12, 2016. The program is sponsored annually by the Sacramento Metropolitan Chamber of Commerce and includes leaders in government, business, healthcare, and education from the Sacramento region. The estimated cost for travel and conference attendance is \$3,500.00. Funds are available in the Economic Development Department's Budget for FY2015/16 to cover the cost.

CC #: 7471

File #: 0600-02

CONTACT: Megan MacPherson 774-5455 mmacpherson@roseville.ca.us

Ceremonial Documents

7.25. Proclamation - California Arbor Week

Proclaim March 7-14, 2016 as California Arbor Week in the City of Roseville, and encourage residents and businesses to join together to plant trees and maintain existing trees.

CC #: 7499

File #: 0102-06

CONTACT: Ellen Worland 774-5131 hblanco@roseville.ca.us

7.26. Proclamation - Keaton Raphael Memorial St. Baldrick's Foundation

Proclaim February 27, 2016 as Keaton Raphael Memorial's St. Baldrick's Foundation Head Shaving Event and urge citizens to support organizations offering assistance and services directly to children diagnosed with cancer.

CC #: 7478

File #: 0102-06

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

7.27. Resolution of Commendation and Appreciation to Kris Blair

Kris Blair be commended for her outstanding service and dedication to the City of Roseville, congratulated for her many accomplishments, and wished a long, healthy, and enjoyable retirement.

CC #: 7480

File #: 0102-10

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

END OF CONSENT CALENDAR

8. MINUTES

8.1. Minutes of Prior Meetings

December 11, 2015 City Council Special Closed Session (Gore absent), January 6, 2016 City Council Meeting (Gore and Herman absent), January 20, 2016 City Council Closed Session/City Council Meeting (Garcia absent), February 3, 2016 City Council Closed Session/City Council Meeting (Herman absent).

CC #: 7474

File #: 0102-03

CONTACT: Sonia Orozco 774-5263 sorozco@roseville.ca.us

9. RESOLUTIONS

9.1. Request for Proposal Policy

Memo from Purchasing and Warehouse Manager Shannon Wiest and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 16-70 ADOPTING A REQUEST FOR PROPOSALS (RFP) POLICY. Request for Proposals (RFP) is a competitive proposal process used by City staff to solicit proposals from potential proposers. The RFP process is used for requirements in which the desired outcome is known, but it is difficult to define the methodology or the exact materials or services required to achieve the desired results. This policy will provide a uniform process for the issuance, evaluation, and selection of competitive proposals for services and/or customized goods. There is no fiscal impact from enacting this policy.

CC #: 7487

File #: 0800-01

CONTACT: Shannon Wiest 774-5705 swiest@roseville.ca.us

10. PUBLIC HEARING

NOTICE TO THE PUBLIC

City Council, when considering the matter scheduled for hearing, will take the following actions:

1. Open the Public Hearing
2. Presentation by Staff
3. Presentation by applicant or Appellant
4. Accept Public Testimony
5. Appellant or Applicant Rebuttal Period
6. Close the Public Hearing
7. City Council Comments and Questions
8. City Council Action

In the future, if you wish to challenge in court any of the matters on this agenda for which a public hearing is to be conducted, you may be limited to raising only those issues, which you, or someone else raised orally at the Public Hearing or in written correspondence received by the City or before the hearing

Public Hearings listed for continuance will be continued as noted and posting of this agenda serves as notice of continuation.

10.1. Water Efficient Landscape Ordinance Amendment

Memo from Senior Planner Derek Ogden and Development Services Director Kevin Payne recommending Council introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADDING CHAPTER 14.18 OF THE ROSEVILLE MUNICIPAL CODE REGARDING WATER EFFICIENT LANDSCAPING; AND REPEALING CHAPTER 19.67 OF ARTICLE IV OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE REGARDING WATER EFFICIENT LANDSCAPING. This item requests that the City Council amend the Water

Efficient Landscape Ordinance (WELO) and move these requirements from Title 19 - Zoning to Title 14 - Public Utilities. Given recent legislation and state oversight of the City's water conservation efforts, the proposed amendment to the WELO will respond to state legislation mandating stricter requirements for reducing landscape irrigation, water consumption, and waste. This action will require additional monitoring and oversight by City staff. The extent of the cost associated with this unfunded mandate will be absorbed by the General Fund and Utility rates.

CC #: 7482

File #: 0800-02

CONTACT: Derek Ogden 746-1348 dogden@roseville.ca.us
Bobby Alvarez 774-1710 balvarez@roseville.ca.us

10.2. Creekview Specific Plan - Specific Plan Amendment

Public Hearing continued to March 16, 2016.

CC #:

File #: 0400-04-13

CONTACT: Wayne Wiley 774-5283 wwayne@roseville.ca.us

11. COUNCIL / STAFF / REPORTS/ COMMENTS

12. ADJOURNMENT



COUNCIL COMMUNICATION

CC #: 7479

File #: 0102-10

Title: Resolution of Commendation and Appreciation to Bill McAnally

Contact: Heather Blanco 774-5265 hblanco@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 5.1.

RECOMMENDATION TO COUNCIL

Recommend Bill McAnally be commended for a successful business history and notable contributions to the Roseville community.

BACKGROUND

n/a

FISCAL IMPACT

n/a

ECONOMIC DEVELOPMENT / JOBS CREATED

n/a

ENVIRONMENTAL REVIEW

n/a

Respectfully Submitted,

Heather Blanco, Deputy City Clerk

Sonia Orozco, City Clerk



Rob Jensen, City Manager

ATTACHMENTS:

Description

Bill McAnally Resolution of Commendation

City of Roseville RESOLUTION

OF COMMENDATION AND APPRECIATION

WHEREAS, Roseville resident and businessman Bill McAnally operates Bill McAnally Racing NAPA Auto Care, Bill McAnally Racing (BMR), Hunts Race World, and Berco Lumber businesses; and

WHEREAS, Bill McAnally Racing NAPA Auto Care is a AAA service provider utilizing ASE certified mechanics to offer fleet services to local businesses and quality auto care to the general public; and

WHEREAS, in 2015 Bill McAnally Racing commemorated its 25th Anniversary of sponsorship by NAPA AUTO PARTS; and

WHEREAS, between Bill McAnally Racing NAPA Auto Care and BMR race activities at the All American Speedway, Bill McAnally has provided for 41 regular jobs and over 100 temporary/seasonal positions to the Roseville area; and

WHEREAS, Bill McAnally spearheaded safety renovations to the All American Speedway, resulting in NASCAR coming to Roseville and one of the largest single day events to Placer County; and

WHEREAS, prominent drivers for Bill McAnally racing include Chris Eggleston in BMR No. 99, Todd Gilliland in BMR No. 54, and Brandon McReynolds in BMR No. 16 helping drive BMR to the winningest team in NASCAR Regional Racing with series wins in 1999, 2000, 2001, 2008, 2010, and 2015; and

WHEREAS, BMR is proud to be a sponsor of local youth sports, high school sports programs, 4H, FFA, Placer Breast Cancer Foundation, and making contributions to many other local clubs and organizations.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, that **BILL McANALLY** be presented with commendation and appreciation for a successful business history and notable contributions to the Roseville community.

SIGNED AND APPROVED this 2nd day of March, 2016.

CAROL GARCIA, MAYOR

ATTEST:

SONIA OROZCO, CITY CLERK
CITY OF ROSEVILLE, CALIFORNIA





COUNCIL COMMUNICATION

CC #: 7473
File #: 0102-03

Title: Minutes of Prior Meetings
Contact: Sonia Orozco 774-5263 sorozco@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.1.

RECOMMENDATION TO COUNCIL

Recommend Council approve the Minutes of November 5, 2015 City Council Special Closed Session, November 18, 2015 City Council Special Legislative Platform Workshop, November 18, 2015 City Council Meeting, December 16, 2015 City Council Special Closed Session, December 16, 2015 City Council Closed Session/City Council/Housing Authority Meeting.

BACKGROUND

N/A

FISCAL IMPACT

N/A

ECONOMIC DEVELOPMENT / JOBS CREATED

N/A

ENVIRONMENTAL REVIEW

N/A

Respectfully Submitted,

Sonia Orozco, City Clerk



Rob Jensen, City Manager

ATTACHMENTS:

Description

November 5, 2015 City Council Special Closed Session Minutes

November 18, 2015 City Council Special Legislative Platform Workshop Minutes

November 18, 2015 City Council Meeting Minutes

December 16, 2015 City Council Special Closed Session Minutes

December 16, 2015 City Council Closed Session/City Council Meeting/Housing Authority Meeting Minutes



**MINUTES
NOVEMBER 5, 2015**

**CITY COUNCIL
SPECIAL CLOSED SESSION**

5:30 p.m.

Hutchison Conference Room
311 Vernon Street
Roseville, California

1. CALL TO ORDER

The November 5, 2015 City Council Special Closed Session was called to order by Mayor Carol Garcia at 5:30 p.m.

2. SILENT ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

3. CLOSED SESSION PUBLIC COMMENTS

No public comment received.

4. CLOSED SESSION

4.1 Public Employee Performance Evaluation

Pursuant to Government Code Section 54957(b)(1):

Performance evaluation/goal setting: Acting City Manager and City Attorney

CONTACT: Vicki Philpott 774-5362 vphilpott@roseville.ca.us

Closed Session Disclosure: No reportable action taken.

5. ADJOURNMENT

Motion by Roccucci, seconded by Herman, to adjourn the meeting.

Vote: All Ayes

CAROL GARCIA, MAYOR

SONIA OROZCO, CMC
CITY CLERK



MINUTES NOVEMBER 18, 2015

SPECIAL CITY COUNCIL LEGISLATIVE PLATFORM WORKSHOP

5:30 p.m.

City Council Chambers
311 Vernon Street
Roseville, California

1. CALL TO ORDER

The November 18, 2015 Specials City Council Legislative Platform Workshop was called to order by Mayor Carol Garcia at 5:30 p.m.

2. ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

3. PLEDGE OF ALLEGIANCE

Mayor Garcia announced the Pledge of Allegiance would be recited before the regular meeting.

4. MEETING PROCEDURES

NOTICE TO THE PUBLIC

All Items on the agenda will be open for the public comment before final action is taken. Speakers are requested to restrict comments to the item as it appears on the agenda and stay within a five (5) - minute time limit. The Mayor has the discretion of limiting the total discussion time for an item.

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PUBLIC COMMENTS

NOTICE TO THE PUBLIC

Persons may address the City Council on items not on this agenda. Please complete a "Speaker Information Card" and present it to the City Clerk prior to the start of the meeting. Speakers shall restrict their comments to issues that are within the subject jurisdiction of the City Council and limit their comments to three (3) minutes per person. The total time allocated for Public Comment is 25 minutes. The Brown Act, with certain exceptions, does not permit the City Council to discuss or take action on issues that are not listed on the agenda.

No public comment received.

6. SPECIAL REQUESTS/REPORTS/PRESENTATION

6.1. Workshop

CC #: 7288

File #: 0103-32-02

CONTACT: Mark Wolinski 774-5179 mwolinski@roseville.ca.us

A. Legislative Advocacy Overview

Public Affairs & Communications Director Megan MacPherson made the presentation to Council.

B. Law & Regulation Committee Overview

Government Relations Administrator Mark Wolinski made the presentation to Council.

C. State and Federal Overview - The Ferguson Group & Gonsalves and Son

Mike Miller, representing the Ferguson Group, provided a federal legislation overview covering varied topics. Examples as follows:

- Drought Legislation
- Transportation
- Marketplace Fairness Act/Sales Tax for Internet sales to counties
- Cyber Legislation

No public comment received.

Jason Gonsalves, representing Gonsalves and Sons, provided a state legislation overview covering varied topics. Examples include:

- Number of Bills Addressed
- Sales Tax Legislation
- Post Redevelopment Trailer
- Elections
- Assembly member terms

No public comment received.

D. Legislative Platform - Review Changes

Government Relations Administrator Mark Wolinski made the presentation to Council. Topics addressed are as follows:

- Loss of Local Control – California Environmental Quality Act
- Homelessness
- Changing Economy (Sales tax)
- Cal Water Fix (formerly Bay Delta Conservation Plan)
- Water Public Good charge – new cost
- Possible extension of State's drought legislation
- Requests for Federal Funding:

- Washington/Andora Roadway Project – improvement to local traffic circulation in the Washington Blvd. area – off-street bikeway construction
- Advanced Metering Infrastructure – advanced technology to increase Electric efficiencies and offering more enhanced pricing structures
- Emerging Energy Technologies – demands such as battery storage, fuel cells and electric vehicles
- Water Supply Reliability Improvements – supply, interconnections, and looking for opportunities to develop and access available surface water supplies beyond Folsom Reservoir
- Passive Groundwater Recharge Infrastructure at Reason Farms – optimize potential water stored so water can be passively recharged
- Expansion of city's recycled water system to central Roseville and Roseville Galleria area – expand use
- Proposed City Platform Modifications:
 - Information Technology – proposed changes to emergency communication capabilities and reducing the risk of cyber attacks
 - Development Services – support for legislation for changes to remove redundant laws
 - Public Safety – changes to legislation to give the Fire Department greater regional collaborative abilities
 - Redevelopment/Housing – adds language to oppose legislation that would change the redevelopment wind down process which would be negative to Roseville's and the use of funds currently allowed by the approved obligation repayment schedule
 - Electric – changes expand the departments platform regarding statewide and federal regulatory agencies
 - Environmental Utilities – changes to respond to the ever changing water environment (Cal Water project, drought legislation, and the use and management of storm water)
- Challenges in the upcoming year:
 - Changes in legislative and congressional leadership will have impacts into the legislative agendas at the state and federal level
 - Staff will continue to educate and interact with state and federal local officials
 - Staff will continue to develop effective advocacy strategies with City's lobbyist and regional and coalition partners.

E. Council Input

Vice Mayor Rohan requested clarification on items and the Mayor and other members spoke to local control, Internet sales, taxable base, transportation bills, drought legislation and impact of forest fires.

Public Works Director Rhon Herndon spoke to answer questions regarding the Washington Andora Overpass plan and costs and Chief Financial Officer Jay Panzica spoke to sales tax issues.

No public comment received.

F. Conclusion

Mayor Garcia and councilmembers thanked staff for the presentation.

7. COUNCIL / STAFF / REPORTS/ COMMENTS

None.

8. ADJOURNMENT

Motion by Herman, seconded by Gore, to adjourn the workshop at 6:30 p.m.

Vote: All Ayes

CAROL GARCIA, MAYOR

SONIA OROZCO, CMC
CITY CLERK



MINUTES NOVEMBER 18, 2015

CITY COUNCIL MEETING

7:00 p.m.

City Council Chambers
311 Vernon Street
Roseville, California

1. CALL TO ORDER

The November 18, 2015 City Council Meeting was called to order by Mayor Carol Garcia at 7:00 p.m.

2. ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Bill and Katelyn Jordan. Bill is an apprentice lineman for Roseville Electric.

Moment of silence was held for the victims and families of the Paris terrorist attacks.

4. MEETING PROCEDURES

NOTICE TO THE PUBLIC

All Items on the agenda will be open for the public comment before final action is taken. Speakers are requested to restrict comments to the item as it appears on the agenda and stay within a five (5) - minute time limit. The Mayor has the discretion of limiting the total discussion time for an item.

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PRESENTATIONS

5.1. Presentation by Northern California Power Agency

Recognizing the City of Roseville and the Roseville Electric Utility employees for their quick response and assistance with rebuilding electric system infrastructure destroyed in the Valley Fire in September 2015.

CONTACT: Michelle Bertolino 774-5681 mbertolino@roseville.ca.us

Electric Utility Director Michelle Bertolino made a brief presentation to Council and introduced General Manager Randy Howard of the Northern California Power Agency.

Randy Howard, General Manager of the Northern California Agency, continued the presentation to Council and acknowledged Roseville Electric employees.

5.2. Resolution of Commendation and Appreciation to Phoebe Astill

Resolution presented to Phoebe Astill for her outstanding service and dedication to the preservation and history of Roseville.

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

Mayor Garcia made the presentation to Phoebe Astil, who responded.

6. PUBLIC COMMENTS

NOTICE TO THE PUBLIC

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Carol Gadberry, Roseville, spoke in opposition to Resolution No. 15-549 regarding permit parking on Niles Avenue.

7. CONSENT CALENDAR

NOTICE TO THE PUBLIC

All matters listed under Consent Calendar are considered to be routine and all will be passed by one motion. There will be no discussion of these items unless members of the City Council or the public request specific items be removed from the Consent Calendar for separate discussion. Any member of the public may address the City Council on items on the Consent Calendar. Public comments on any item or items on the Consent Calendar are limited to five (5) minutes per speaker

BEGINNING OF CONSENT CALENDAR

Approval of the Consent Calendar

Dropped item 7.15 from the agenda to be relisted at a future meeting, removed item 7.9 from the Consent Calendar to be discussed separately, and approved the remaining items as recommended.

Minutes

7.1. Minutes of Previous Meetings

Approve the June 25, 2015 City Council Closed Session Minutes, June 30, 2015 City Council Closed Session Minutes, July 15, 2015 City Council Closed Session/City Council Meeting Minutes, and July 21, 2015 City Council Closed Session Minutes.

CC #: 7284

File #: 0102-03

CONTACT: Sonia Orozco 774-5263 sorozco@roseville.ca.us

7.2. Dry Creek Wastewater Treatment Plant Digester Gas Mixing Compressor - Sole Source Purchase

Memo from Principal Engineer Bryan Buchanan and Environmental Utilities Director Richard Plecker recommending Council approve the sole source purchase of a digester gas mixing compressor from Gardner Denver Nash, LLC for the Dry Creek Wastewater Treatment Plant. Gardner Denver Nash, LLC is the sole manufacturer of the matching gas compressor required to replace a critical spare unit. The total cost of the purchase will not exceed \$24,277.02 including sales tax and shipping fees. Funding is included in the approved FY2015/16 Wastewater Operations Budget.

CC #: 7275

File #: 0203-09

CONTACT: Bryan Buchanan 746-1812 bbuchanan@roseville.ca.us

7.3. Vehicle Purchases and Budget Adjustment

Memo from Buyer Peter Brevik and Central Services Director Paul Diefenbach recommending Council authorize a purchase order to Downtown Ford Sales for six Ford F250 trucks utilizing RFQ 01-3054; and authorize a purchase order to Edward R Bacon Company for one trailer mounted trash pump utilizing RFQ 01-3056; and authorize a purchase order to The Charles Machine Works Inc. for one ditch witch trailer mounted FX50A vacuum system utilizing NJPA contract 45378; and adopt ORDINANCE NO. 5594 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE, and authorize a purchase order to Turf Star Inc. for two Toro Ground Master 7200 mowers utilizing NIPA contract 120535. The total cost of six Ford F250 pickup trucks is \$155,156.93. The total cost of one trailer mounted trash pump is \$45,957.60. The total cost of one ditch witch trailer mounted FX50A vacuum system is \$91,631.27. The total cost of two Toro Ground Master 7200 mowers is \$37,980.57, a budget adjustment of \$1,000.00 from the Auto Replacement Budget will pay for the remaining purchase price of one mower. Funding for the vehicles is included in the FY2015/16 Auto Replacement Budget.

CC #: 7270

File #: 0201-01 & 0203-01

CONTACT: Peter Brevik 774-5724 pbrevik@roseville.ca.us

7.4. Self-Contained Breathing Apparatus Maintenance, Testing, and Repair - Service Agreement

Memo from Buyer Joanna Oukrop and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 15-505 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND MUNICIPAL EMERGENCY SERVICES, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1605189). This item requests authorization of a service agreement with Municipal Emergency Services for maintenance, testing, and repair of the Fire Department's self-contained breathing apparatus utilizing the City of San Jose's Request for Quotation #20944. The Fire Department has an ongoing requirement to maintain, test, and repair their inventory of self-contained breathing apparatus. The estimated total value of the award is \$100,000.00. Funding is included in the Fire Department's FY2015/16 Budget.

CC #: 7268

File #: 0203-12

CONTACT: Joanna Oukrop 774-5745 joukrop@roseville.ca.us

7.5. Tree Pruning and Tree Maintenance Services - Services Agreement Amendment

Memo from Urban Forester Michael-Gerold Neumann and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-507 APPROVING

A FIRST AMENDMENT TO AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND WEST COAST ARBORISTS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. In 2011, the City entered into a 5-year service agreement with West Coast Arborist, Inc. for tree pruning and tree maintenance services. The Open Space Division is currently in the last year of the contract and is amending the contract to cover additional extra work to maintain a safe and healthy urban forest. Total cost of the contract amendment is \$428,088.61. Total compensation for the entire contract shall not exceed \$2,701,682.61 and will be covered in the FY2015/16 Budget from the following funding sources: \$150,000.00 General Fund, \$44,000.00 Golf Course Funds, \$15,000.00 Preserve Fund, \$15,050.00 Native Tree Mitigation Fund, \$1,300.00 Non-Native Tree Mitigation Fund, \$202,739.00 Community Facilities District/Lighting and Landscaping Districts.

CC #: 7273

File #: 0203-10

CONTACT: Michael-Gerold Neumann 774-5579 mneumann@roseville.ca.us

7.6. Defibrillator EKG Monitor - Service Agreement Renewal

Memo from Fire Division Chief David Dolson and Fire Chief Rick Bartee recommending Council adopt RESOLUTION NO. 15-497 APPROVING A SERVICE AGREEMENT RENEWAL BETWEEN CITY OF ROSEVILLE AND PHYSIO-CONTROL, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1605059). The defibrillators are designed to help Fire Department paramedics meet required protocols, EMS delivery systems, and AHA Guidelines. They expand to allow for advances in communication as well as to accommodate clinical parameters as soon as they are introduced. The LifePak15 and LifePak1000 defibrillators are required to receive periodic preventive maintenance and testing such as electrical safety tests, performance inspection, and required calibration are to be performed regularly by qualified Physio-Control service technicians. Total estimated cost of the renewed service agreement is \$74,576.00, and will be paid in four annual payments over four fiscal year cycles. Funding for the service agreement will be included in each fiscal year budget.

CC #: 7262

File #: 0203-12

CONTACT: David Dolson 774-5807 ddolson@roseville.ca.us

7.7. Holiday Lighting and Decoration Installation - Services Agreement Amendment

Memo from Open Space Superintendent Brian Castelluccio and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-493 APPROVING A FIRST AMENDMENT TO SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND THE CHRISTMAS LIGHT PROS OF SACRAMENTO, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1605215). This agreement amendment is for the purchase, installation, removal, and storage of holiday lighting and decorations by Christmas Light Pros of Sacramento for the Town Square and Historic District. The total cost of the holiday lighting and decoration installation contract is \$28,288.50. This is funded from the following budgets: \$16,892.00 Park, Recreation and Libraries, \$10,000.00 Roseville Electric, and \$1,396.50 Central Services.

CC #: 7254

File #: 0704

CONTACT: Brian Castelluccio 746-1755 bcastelluccio@roseville.ca.us

Resolutions

7.8. Ordering Judicial Foreclosure of Delinquent Special Taxes Pursuant to the Mello-Roos Community Facilities Act of 1982

Memo from Financial Analyst Vanessa Lieberman and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 15-499 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE ACTING AS THE GOVERNING BODY OF ALL OF ITS COMMUNITY FACILITIES DISTRICTS ORDERING JUDICIAL FORECLOSURE OF DELINQUENT SPECIAL TAXES PURSUANT TO THE MELLO-ROOS COMMUNITY FACILITIES ACT OF 1982 AND ORDERING THAT THE PLACER COUNTY TAX COLLECTOR BE CREDITED WITH THOSE TAXES. Certain property owners have become delinquent in payments of the special taxes associated with several of the City's Community Facilities Districts (CFD). As per the bond covenants, when certain delinquency thresholds have been met the City is required to commence foreclosure actions against delinquent parcels. It is requested that Council adopt a resolution ordering judicial foreclosure of delinquent special taxes pursuant to the Mello-Roos Community Facilities Act of 1982 and ordering the Placer County tax collector be credited with those taxes. There is no impact to the City's General Fund. All legal fees are borne by the property owner and all penalties and interest collected will be credited to the subject CFD.

CC #: 7264

File #: 0206-03

CONTACT: Vanessa Lieberman 774-5189 vlieberman@roseville.ca.us

7.9. Utilities Communication and Outreach - Professional Services Agreements – **Removed from Consent Calendar to be Discussed Separately**

Memo from Electric Public Information Officer Vonette McCauley and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 15-500 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND 3FOLD COMMUNICATIONS, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 15-501 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND PROPOSE, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of two, two-year professional services agreements for the development and implementation of outreach, strategic communication, and graphic design activities for Roseville Electric Utility, Environmental Utilities, and the Utility Exploration Center. The agreements are not to exceed \$435,000.00, each, per year. Funds are budgeted and available in the current FY2015/16 budgets for these departments. Funding for subsequent years is subject to budget approval by City Council.

CC #: 7265

File #: 0800-02 & 0800-03

CONTACT: Vonette McCauley 774-5625 vmccauley@roseville.ca.us

Maurice Chaney 774-5539 mchaney@roseville.ca.us

7.10. Citrix Upgrade - Professional Services Agreement

Memo from Information Technology Program Manager Matt Donaldson and Chief Information Officer Hong Sae recommending Council adopt RESOLUTION NO. 15-492 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND ENTISYS SOLUTIONS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This agreement with Entisys Solutions is for work to complete the upgrade of the City's Citrix environment. The total cost of this service is \$36,800.00. Funding is included in the Information Technology Department's FY2015/16 Budget.

CC #: 7255

File #: 0800-05

CONTACT: Matt Donaldson 774-5405 mdonaldson@roseville.ca.us

7.11. HVAC Study and Evaluation, Measurement and Verification - Professional Services Agreement Amendment

Memo from Electric Business Analyst Renee Laffey and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 15-498 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND NEXANT, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is an amendment of a previously approved professional services agreement for mandated evaluation, measurement, and verification of energy savings. This amendment increase from \$126,866.00 to \$152,552.00 is included in the Public Benefits Budget for FY2015/16.

CC #: 7263

File #: 0800-03

CONTACT: Renee Laffey 774-5671 rlaffey@roseville.ca.us

7.12. Excess Insurance - Membership and Memorandum of Understanding

Memo from Human Resources Manager Lisa Achen and Human Resources Director Gayle Satchwell recommending Council adopt RESOLUTION NO. 15-512 APPROVING A JOINT POWERS AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND CSAC EXCESS INSURANCE AUTHORITY AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 15-513 APPROVING THE MEMORANDUM OF UNDERSTANDING REGARDING THE CSAC EXCESS INSURANCE AGENCY (CSAC-EIA) DENTAL PROGRAM. Request the City Council to authorize the City Manager to execute a contract for membership with California Association of Counties Excess Insurance Agency (CSAC-EIA). There is no cost for membership; however, becoming a member will allow the city to take advantage securing a contract with Delta Dental through CSAC-EIA's Delta Dental program, which will provide dental insurance to City employees at a reduced cost while not changing the program coverage.

CC #: 7287

File #: 0600

CONTACT: Lisa Achen 774-5205 lachen@roseville.ca.us

7.13. Bus Shelter #9 - Reimbursement Agreement

Memo from Financial Analyst Elizabeth Haydu and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 15-511 APPROVING A CITY/DEVELOPER REIMBURSEMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND PATTERSON FAMILY TRUST, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of a reimbursement agreement with the developer of 998 Sunrise Avenue as a condition of approval of the design review permit approved on January 15, 2015 to remove and replace Bus Shelter #9, which has exceeded its useful life. The total cost of reimbursement will not exceed \$10,000.00. There is no fiscal impact on the City's General Fund or the Alternative Transportation Division's Transportation Development Act funds. Local Transportation Funds will be utilized for reimbursement payment.

CC #: 7266

File #: 0721

CONTACT: Elizabeth Haydu 746-1302 ehaydu@roseville.ca.us

- 7.14. Downtown Class I Trail Project - Congestion Mitigation Air Quality and Recreation Trails Grant Authorizations
Memo from Alternative Transportation Analyst Michael Dour and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 15-509 AUTHORIZING STAFF TO REPROGRAM FEDERAL CONGESTION MITIGATION & AIR QUALITY FUNDS FROM HARDING TO ROYER SEGMENT 3 TRAIL PROJECT TO DOWNTOWN CLASS 1 TRAIL PROJECT; and adopt RESOLUTION NO. 15-510 APPROVING THE APPLICATION FOR GRANT FUNDS FROM THE RECREATION TRAILS PROGRAM. This item requests authorization to re-program \$310,659.00 in Congestion Mitigation Air Quality funds from the Harding to Royer Segment 3 Trail project to the Downtown Class I Trail Project and to submit an application in the amount of \$616,000.00 to the Recreation Trails Grant Program for the Downtown Class I Trail project.
CC #: 7276
File #: 0214
CONTACT: Michael Dour 746-1304 mdour@roseville.ca.us
- 7.15. Roseville Fire Museum - Joint Use Agreement – **Dropped from Agenda to be Re-listed on December 16, 2015 Agenda**
Memo from Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-504 APPROVING A JOINT USE AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND THE ROSEVILLE FIRE MUSEUM AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of a Joint Use Agreement between City of Roseville and Roseville Fire Museum with a one-time financial commitment not to exceed \$20,000.00 for an engineer's estimate. Funding will come from the General Capital Improvement Project Rehabilitation Fund.
CC #: 7277
File #: 0717
CONTACT: Dominick Casey 774-5362 dcasey@roseville.ca.us
- 7.16. Street Closure Request - Christmas Tree Lighting Event - December 3, 2015
Memo from Community Relations Analyst Jamie Hazen and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-506 OF THE COUNCIL OF THE CITY OF ROSEVILLE APPROVING THE CLOSING OF CERTAIN STREETS FOR THE 2015 ANNUAL CHRISTMAS TREE LIGHTING CEREMONY. The street closure will take place on Thursday, December 3, 2015 from 3:00 - 10:00 p.m. for the annual Christmas Tree Lighting Event. The budget for this event is \$20,431.00 with an expected vendor revenue and sponsorship amount of \$8,600.00. If the sponsorship and revenue goals are met, the budget for this event is a net \$11,831.00. This amount is included in the Parks, Recreation & Libraries Department Budget.
CC #: 7269
File #: 0109-02
CONTACT: Jamie Hazen 774-5978 jhazen@roseville.ca.us
- 7.17. Confirmation of Appointment of Assistant Directors of Emergency Services
Memo from Fire Division Chief Jason Rizzi and Fire Chief Rick Bartee recommending Council adopt RESOLUTION 15-496 CONFIRMING APPOINTMENT OF ASSISTANT EMERGENCY SERVICES DIRECTORS PURSUANT TO ROSEVILLE MUNICIPAL CODE SECTION 9.28.050. The Assistant Director of Emergency Services is appointed to serve in the event the Director of Emergency Services is unable to fulfill their duties. During the City's last Emergency Operation Center training exercise it was determined that the Assistant Directors of Emergency Services had not been appointed. This

resolution confirms the appointment of the Assistant Directors of Emergency Services and provides the order in which they will serve: 1) Assistant City Manager; 2) Development Services Director; 3) Chief Financial Officer; 4) Central Services Director, and 5) Public Works Director. There is no fiscal impact.

CC #: 7260

File #: 0307

CONTACT: Jason Rizzi 774-5802 jrizzi@roseville.ca.us

7.18. Placer Valley Sports Complex Project - Professional Services Agreement

Memo from Planning & Development Superintendent Tara Gee and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-494 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND ICF JONES & STOKES, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of a professional services agreement with ICF Jones & Stokes to complete an initial study/mitigated negative declaration for the Placer Valley Sports Complex Project. The cost for this service is \$70,415.00 and is part of the City's approved Capital Improvement Program of the City's \$5 million contribution towards this project. There is no additional General Fund impact.

CC #: 7256

File #: 0704

CONTACT: Tara Gee 774-5253 tgee@roseville.ca.us

7.19. 316 Vernon Street Office Building – Professional Services Agreement for Special Inspections and Testing

Memo from Development Services Manager Mike Isom recommending Council adopt RESOLUTION NO. 15-502 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND QUALITY ASSURANCE ENGINEERING, INC., DBA CONSOLIDATED ENGINEERING LABORATORIES, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is a professional service agreement with Quality Assurance Engineering, Inc. (dba Consolidated Engineering Laboratories) to perform all required special inspections and materials testing during construction of the 316 Vernon Office Building Project. The total contract amount is \$60,791.72, which is funded from the 316 Vernon Street Office Building Project Fund. No General Fund monies are proposed.

CC #: 7257

File #: 0401-02-02-1

CONTACT: Mike Isom 774-5527 misom@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

7.20. Meter Reading Services - Professional Services Agreement Amendment and Budget Adjustment

Memo from Finance and Administration Manager Philip McAvoy and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 15-495 APPROVING A SECOND AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND TRIMARK ASSOCIATES, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 5590 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests approval of a second amendment to extend a professional services agreement with Trimark Associates, Inc. for meter reading services for large business and industrial meters. Total cost of the two-year extension is not to exceed \$150,000.00. This item also requests a budget adjustment

for \$50,000.00 from the Electric Operations Fund to fund the cost of the contract through the end of FY16.

CC #: 7253

File #: 0800-03 & 0201-01

CONTACT: Philip McAvoy 774-5689 pmcavoy@roseville.ca.us

7.21. Community Facilities Districts True-Up To Levies - Budget Adjustment

Memo from Financial Analyst Lisa Binner and Finance Director Monty Hanks recommending Council adopt ORDINANCE NO. 5591 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests approval of a budget adjustment in the amount of \$4,699,116.00 involving several of the City's Community Facilities Districts (CFDs) to true-up the FY16 CFD budgets to the FY16 levies.

CC #: 7259

File #: 0201-01 & 0206-03-01

CONTACT: Lisa Binner 774-5307 lbinner@roseville.ca.us

7.22. Public Works Staffing Change and Budget Adjustment

Memo from Senior Human Resources Analyst Linda Hampton and Human Resources Director Gayle Satchwell recommending Council adopt ORDINANCE NO. 5592 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE; and approve the Public Works' Department allocation schedule. Staff recommends adding a Traffic Signal Maintenance Worker I/II allocation to the Public Works Department to support the Traffic Signal Maintenance group in maintaining traffic signals and related equipment. The proposed changes will result in an annual cost of \$110,879.00 and a FY2016 cost of \$51,175.00. The fiscal costs will be funded out of the Traffic Signal Fund.

CC #: 7267

File #: 0600-01 & 0201-01

CONTACT: Linda Hampton 774-5215 lhampton@roseville.ca.us

7.23. Westbrook Monitoring Well - Reimbursement Agreement and Budget Adjustment

Memo from Senior Engineer Jose Lopez and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 15-508 APPROVING A CITY/DEVELOPER REIMBURSEMENT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND WP DEVELOPMENT COMPANY, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 5593 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Westbrook Specific Plan (WSP) Development Agreement states the City of Roseville shall be responsible for the construction of a monitoring well for determining water production, water quality, and above ground well improvements within the WSP area. To facilitate the well drilling process the City has agreed to enter into a Reimbursement Agreement with WP Development Company, LLC (Developer) for the construction of the monitoring well. The Developer contracted the services of a well drilling contractor and the reimbursement amount is \$125,935.00. Funding for the monitoring well is provided by Water Connection Fees.

CC #: 7271

File #: 0201-01 & 0900-02

CONTACT: Jose Lopez 774-5688 jlopez@roseville.ca.us

Ordinances (for second reading and adoption)

7.24. Second Reading of Ordinance - Roseville Electric Utility 2015 Rate Case

Memo from Finance and Administration Manager Philip McAvoy and Electric Utility Director Michelle Bertolino recommending Council present second reading and adoption of ORDINANCE NO. 5589 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 14.24.021, 14.24.040, 14.24.050, 14.24.051, 14.24.052 AND 14.24.055 OF CHAPTER 14.24 OF TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING UTILITY RATES.

CC #: 7279

File #: 0800-03

CONTACT: Philip McAvoy 774-5689 pmcavoy@roseville.ca.us

7.25. Second Reading of Ordinance - Repealing Municipal Code Chapter 4.53 - Animal Control Facility Fee

Memo from Administrative Analyst Jeannine Thrash and Finance Director Monty Hanks recommending Council present second reading and adoption of ORDINANCE NO. 5588 OF THE COUNCIL OF THE CITY OF ROSEVILLE MUNICIPAL CODE REGARDING ANIMAL CONTROL FACILITY FEE.

CC #: 7278

File #: 0215 & 0215-01

CONTACT: Jeannine Thrash 774-5473 jthrash@roseville.ca.us

Monty Hanks 774-5313 mhanks@roseville.ca.us

Chris Robles 774-5421 crobles@roseville.ca.us

Reports / Requests

7.26. Chamber of Commerce Membership Request

Memo from Economic Development Manager Laura Matteoli and Economic Development Director Chris Robles recommending Council authorize the expenditure of funds for the Roseville Chamber of Commerce's membership at a "Signature" level in the budgeted amount of \$30,000.00. Funding is included in the Economic Development Department's FY2015/16 Membership Budget.

CC #: 7258

File #: 0106-01

CONTACT: Laura Matteoli 774-5284 lmatteoli@roseville.ca.us

7.27. Out of State Travel Request - Fire Department

Memo from Fire Chief Rick Bartee recommending Council approval of out of state travel for Fire Chief Rick Bartee to attend the Colorado Task Force One National Urban Search and Rescue (US&R) Response System meetings. The meetings are scheduled December 1-3, 2015, in Denver, CO. As the representative of the 28 FEMA US&R Task Forces, Fire Chief Rick Bartee is required to attend these meetings. All travel, per diem, and lodging expenses are covered by FEMA, and there is no cost to the Roseville Fire Department.

CC #: 7280

File #: 0600-02

CONTACT: Rick Bartee 774-5825 rbartee@roseville.ca.us

7.28. Out of State Travel Request - Police Department

The Police Department is requesting permission for Public Safety Outreach and Community Relations Analyst Rob Baquera to attend a train-the-trainer course in emergency preparedness in Emmitsburg, Maryland from January 4-6, 2016. The course will equip Analyst Baquera to teach other City staff entry-level skills in emergency

planning, exercise design, and public information and warning. The Federal Emergency Management Agency provides tuition and most of the other related costs of the training. The class will cost the City approximately \$525.00 for ground transportation and per diem expenses. There are sufficient funds in the Emergency Management Training Budget to pay the expenses.

CC #: 7286

File #: 0600-02

CONTACT: Dee Dee Gunther 774-5015 ddgunther@roseville.ca.us

Ceremonial Documents

7.29. Resolution of Congratulations to Shen Yun Performing Arts

Resolution of Congratulations to Shen Yun Performing Arts on their success and welcome them back to the Northern California area to perform their Classical Chinese dance.

CC #: 7281

File #: 0102-10

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

Motion by Roccucci, seconded by Herman, to drop item 7.15 from the agenda, remove item 7.9 from the Consent Calendar to be discussed separately, and approve the remaining items as recommended.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci, Garcia

Noes: None

Absent: None

REMOVED FROM CONSENT CALENDAR

7.9. Utilities Communication and Outreach - Professional Services Agreements

Memo from Electric Public Information Officer Vonette McCauley and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 15-500 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND 3FOLD COMMUNICATIONS, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 15-501 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND PROPOSE, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of two, two-year professional services agreements for the development and implementation of outreach, strategic communication, and graphic design activities for Roseville Electric Utility, Environmental Utilities, and the Utility Exploration Center. The agreements are not to exceed \$435,000.00, each, per year. Funds are budgeted and available in the current FY2015/16 budgets for these departments. Funding for subsequent years is subject to budget approval by City Council.

CC #: 7265

File #: 0800-02 & 0800-03

CONTACT: Vonette McCauley 774-5625 vmccauley@roseville.ca.us

Maurice Chaney 774-5539 mchaney@roseville.ca.us

Item removed by Vice Mayor Rohan.

Electric Public Information Officer Vonette McCauley made the presentation to Council.

City Attorney Bob Schmitt continued the presentation to Council.

Lori Prosio, Roseville, spoke in opposition to the request for proposal (RFP) process.

Kirk Tabor, Roseville, spoke in opposition to the RFP process.

Wendy Gerig, Roseville Chamber of Commerce, spoke in opposition to the RFP process.

Motion by Herman, seconded by Roccucci, to adopt RESOLUTION NO. 15-500 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND 3FOLD COMMUNICATIONS, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 15-501 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND PROPOSE, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE.

Roll call vote: Ayes: Herman, Roccucci, Garcia

Noes: Gore, Rohan

Absent: None

END OF CONSENT CALENDAR

8. MINUTES

8.1. Minutes of Previous Meetings

Approve the July 1, 2015 City Council Meeting Minutes – (Gore absent).

CC #: 7285

File #: 0102-03

CONTACT: Sonia Orozco 774-5263 sorozco@roseville.ca.us

City Clerk Sonia Orozco requested approval.

Motion by Roccucci, seconded by Herman, to approve the July 1, 2015 City Council Meeting minutes.

Roll call vote: Ayes: Rohan, Herman, Roccucci, Garcia

Noes: None

Absent: None

Abstain: Gore

9. RESOLUTIONS

9.1. Park Naming Policy and Community Gifts Program Revisions

Memo from Park Planning and Development Superintendent Tara Gee and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-503 APPROVING REVISIONS TO THE PARK NAMING POLICY AND COMMUNITY GIFTS PROGRAM FOR THE CITY OF ROSEVILLE. This is a request to approve the provisions to the park naming policy to address name changes to existing parks and community gifts program to include benches with name plaques. The policy revisions and community gift updates do not create an additional fiscal commitment to the General Fund. The policy update addresses cost offset considerations at the time a name change is approved. The community gift program is a full cost recovery program.

CC #: 7272

File #: 0704

CONTACT: Tara Gee 774-5253 tgee@roseville.ca.us

Assistant City Manager Dominick Casey made the presentation to Council.

No public comment received.

Motion by Gore, seconded by Rohan, to adopt RESOLUTION NO. 15.503 APPROVING REVISIONS TO THE PARK NAMING POLICY AND COMMUNITY GIFTS PROGRAM FOR THE CITY OF ROSEVILLE.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci, Garcia

Noes: None

Absent: None

10. SPECIAL REQUESTS/REPORTS/PRESENTATION

10.1. Council Discretionary Funds Request - The Salvation Army

Memo from Management Assistant Amy Ruiz and City Clerk Sonia Orozco with a request from the Salvation Army for Council Discretionary Funds to cover the costs of a refuse dumpster as they prepare gifts and food baskets for holiday distribution. The cost is based on the number of empties required during the four weeks (November 19, 2015 – December 22, 2015) the dumpster is in use. The minimum estimated cost is \$400.00 and it is anticipated it will not exceed \$1,000.00. At this time the balance in the Council's Discretionary Funds for FY2016 is \$5,011.00.

CC #: 7261

File #: 0102

CONTACT: Amy Ruiz 774-5362 aruiz@roseville.ca.us

Sonia Orozco 774-5269 sorozco@roseville.ca.us

Vice Mayor Rohan left the dais due to potential conflict of interest.

City Clerk Sonia Orozco made the presentation to Council.

No public comment received.

Motion by Herman, seconded by Roccucci, to allocate up to \$1,000.00 of Council Discretionary Funds to the Salvation Army to cover the costs of a refuse dumpster as they prepare gifts and food baskets for holiday distribution.

Roll call vote: Ayes: Gore, Herman, Roccucci, Garcia

Noes: None

Absent: Rohan

Vice Mayor Rohan returned to the dais.

11. COUNCIL / STAFF / REPORTS/ COMMENTS

Environmental Utilities Update

Environmental Utilities Director Richard Plecker provided update on drought status.

For information only. No action taken.

Sylvia Besana Annual Holiday Parade – Councilmember Gore announced upcoming event on November 21, 2015.

Christmas Tree Lighting – Councilmember Gore announced upcoming event on December 3, 2015.

75th Celebration of Tower Theater – Councilmember Roccucci reported on attendance.

University of Warwick – Councilmember Herman reported on progress.

12. ADJOURNMENT

Motion by Herman, seconded by Roccucci, to adjourn the meeting at 8:30 p.m.

Vote: All Ayes

CAROL GARCIA, MAYOR

SONIA OROZCO, CMC
CITY CLERK



**MINUTES
DECEMBER 16, 2015**

CITY COUNCIL SPECIAL CLOSED SESSION

6:30 p.m.

City Council Chambers
311 Vernon Street
Roseville, CA

A. CLOSED SESSION CALL TO ORDER

Mayor Carol Garcia called the City Council Special Closed Session to order at 6:30 p.m.

B. CLOSED SESSION SILENT ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

C. CLOSED SESSION PUBLIC COMMENTS

No public comment received.

D. CLOSED SESSION

D.1. Conference with Labor Negotiators

Pursuant to California Government Code Section 54957.6

Agency designated representatives: Gayle Satchwell, Jay Panzica, and Tim Davis

Employee Organizations: Roseville Police Officers Association; Roseville Police

Association; IBEW, Local 1245; Stationary Engineers, Local 39; and

Management/Confident Employees.

CONTACT: Gayle Satchwell 774-5374 gsatchwell@roseville.ca.us

Closed Session Disclosure: No reportable action taken.

E. CLOSED SESSION ADJOURNMENT

Motion by Gore, seconded by Roccucci, to adjourn the meeting at 7:00 p.m.

CAROL GARCIA, MAYOR

SONIA OROZCO, CMC
CITY CLERK



**MINUTES
DECEMBER 16, 2015**

**CITY COUNCIL CLOSED SESSION
6:30 p.m.**

**CITY COUNCIL MEETING
HOUSING AUTHORITY MEETING
7:00 p.m.**

City Council Chambers
311 Vernon Street
Roseville, California

CLOSED SESSION

6:30 p.m.

A. CLOSED SESSION CALL TO ORDER

Mayor Garcia called the meeting to order at 6:30 p.m.

B. CLOSED SESSION ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

C. CLOSED SESSION PUBLIC COMMENTS

No public comment received.

D. CLOSED SESSION ITEM

Conference with Legal Counsel – Existing Litigation – Two cases
Pursuant to Government Code Section 54956.9(d)(1)
Richard Keller v. City of Roseville
Placer County Superior Court, Case Number SCV0036556; and
Richard Keller v. City of Roseville
Placer County Superior Court, Case Number SCV0035075, and
Third Appellate District Court, Case Number C078746
CONTACT: Robert Schmitt 774-5325 rschmitt@roseville.ca.us

Closed Session Disclosure: City Attorney Bob Schmitt stated no reportable action taken.

E. CLOSED SESSION ADJOURNMENT
The Closed Session was adjourned at 7:00 p.m.

1. CALL TO ORDER

Mayor Carol Garcia called the City Council/Housing Authority Meeting to order at 7:00p.m.

2. ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Claudia Gamar Heinlein.

4. MEETING PROCEDURES

NOTICE TO THE PUBLIC

All Items on the agenda will be open for the public comment before final action is taken. Speakers are requested to restrict comments to the item as it appears on the agenda and stay within a five (5) - minute time limit. The Mayor has the discretion of limiting the total discussion time for an item.

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PRESENTATIONS

5.1. Roseville Chamber of Commerce SPLASH Proceeds Presentation

Presentation to the City of Roseville Parks, Recreation & Libraries Department with a portion of the proceeds of the SPLASH 2015 event to benefit youth programs.

CONTACT: Dominick Casey 774-5263 dcasey@roseville.ca.us

Chamber of Commerce CEO Wendy Gerig made the presentation to Mayor Garcia. Mayor Garcia expressed appreciation to the Roseville Chamber of Commerce.

5.2. Resolution of Commendation and Appreciation to Meals on Wheels by ACC

Meals on Wheels by ACC be commended and appreciated for their outstanding service and dedication to the seniors of Sacramento and west Placer County communities so they may live a nourished life with independence and dignity.

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

Mayor Garcia made the presentation to numerous volunteers. Program Director David Morikawa responded.

5.3. Resolution for 2015 Sylvia Besana Community Volunteer Award

Fred and Pauline Wight be commended and congratulated for being the recipients of the City of Roseville Sylvia Besana Community Volunteer Award for 2015.

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

Mayor Garcia made the presentation to Fred and Pauline Wight, who responded.

Item 7.51 was removed from the Consent Calendar to be presented.

- 7.51. Resolution of Congratulations to Fernanda Farripas Pope
Fernanda Farripas Pope be congratulated on obtaining United States Citizenship.
CC #: 7324
File #: 0102-10
CONTACT: Heather Blanco 774-5365 hblanco@roseville.ca.us

Mayor Garcia made the presentation to Fernanda Farripas Pope, who responded.

6. PUBLIC COMMENTS

NOTICE TO THE PUBLIC

Persons may address the City Council on items not on this agenda. Please complete a "Speaker Information Card" and present it to the City Clerk prior to the start of the meeting. Speakers shall restrict their comments to issues that are within the subject jurisdiction of the City Council and limit their comments to three (3) minutes per person. The total time allocated for Public Comment is 25 minutes. The Brown Act, with certain exceptions, does not permit the City Council to discuss or take action on issues that are not listed on the agenda.

Kevin Dredge, Roseville, spoke to concerns regarding revitalization to public schools.

7. CONSENT CALENDAR

NOTICE TO THE PUBLIC

All matters listed under Consent Calendar are considered to be routine and all will be passed by one motion. There will be no discussion of these items unless members of the City Council or the public request specific items be removed from the Consent Calendar for separate discussion. Any member of the public may address the City Council on items on the Consent Calendar. Public comments on any item or items on the Consent Calendar are limited to five (5) minutes per speaker

BEGINNING OF CONSENT CALENDAR

Approval of the Consent Calendar

be Dropped item 7.24 from the agenda, removed item 7.51 from the Consent Calendar to be discussed separately, and approved the remaining items as recommended.

Minutes

7.1. Minutes of Previous Meetings

Memo from City Clerk Sonia Orozco recommending Council approve the Minutes of August 5, 2015 City Council Closed Session/City Council/Finance Authority Meeting, August 12, 2015 City Council Special Closed Session, August 19, 2015 City Council Meeting, September 2, 2015 Oak Street Parking Facility Workshop/City Council/Housing Authority/Successor Agency Meeting, and September 10, 2015 City Council Special Closed Session.

CC #: 7345

File #: 0102-03

CONTACT: Sonia Orozco 774-5263 sorozco@roseville.ca.us

Bids / Purchases / Services

7.2. Decorative Street Lights, Pole and Bases - Open Purchase Order

Memo from Buyer Peter Brevik and Central Services Director Paul Diefenbach recommending Council authorize open purchase orders to AZCO Supply Inc. as the lowest responsive bidder to RFQ 01-3057. The Electric Department has a recurring

requirement for decorative street lights, poles and bases. The decorative streetlight items are provided and installed by Roseville Electric in new residential sub-divisions and the developers reimburse the City. Also, four optional one-year renewals were included in the decorative street light, pole and base bid. The estimated cost for eighteen months is \$600,000.00. These items will be purchased and placed into Central Stores inventory. When items are pulled out of inventory, funds will be charged to Electric against the current fiscal year budget.

CC #: 7318

File #: 0203--07

CONTACT: Peter Brevik 774-5724 pbrevik@roseville.ca.us

7.3. Custodial Services - Professional Services Agreement

Memo from Facility Manager Dan Allen and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 15-520 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND ABM ONSITE SERVICES, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is a request of Council to authorize a professional service agreement with ABM for custodial services. City facilities require regularly scheduled custodial services to ensure a safe, clean and well maintained facility for our citizens and employees. The City solicited proposals for custodial services in October 2015 and is recommending ABM for award of the contract. The total value of the agreement is \$339,353.80 for one year starting January 1, 2016 through December 31, 2016. The agreement also includes four optional, one year renewals. Funding for this agreement is included in the Central Services, Custodial Division FY2015/16 Budget and proposed FY2017 Budget.

CC #: 7339

File #: 0203-04

CONTACT: Dan Allen 774-5741 dallen@roseville.ca.us

7.4. Vehicle Purchases and Budget Adjustment

Memo from Buyer Peter Brevik and Central Services Director Paul Diefenbach recommending Council adopt ORDINANCE NO. 5600 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE; and authorize a purchase order to Western Truck Center for one Autocar roll-off collection vehicle utilizing RFQ 01-3059; and authorize a purchase order to Winner Chevrolet for eighteen Chevrolet Tahoe's utilizing RFQ 01-3060; and authorize a purchase order to National Auto Fleet Group for one Ford Focus electric vehicle utilizing NJPA contract 102811; and authorize a purchase order to Altec Industries, Inc. for two articulating telescopic aerial lift trucks utilizing NJPA contract 031014-Alt. The total cost of one Autocar roll-off collection vehicle is \$204,123.37. The total cost of eighteen Chevrolet Tahoe's is \$798,019.31. The total cost of one Ford Focus electric vehicle is \$31,490.72. The total cost of two articulating telescopic aerial lift trucks is \$321,183.86, a budget adjustment of \$4,000.00 from the Auto Replacement Budget will pay for the remaining purchase price and outfitting of the vehicles. Funding for the vehicles is included in the FY2015/16 Auto Replacement Budget.

CC #: 7322

File #: 0203-01 & 0201-01

CONTACT: Peter Brevik 774-5724 pbrevik@roseville.ca.us

7.5. 60kV Circuit Breakers Sole Source Purchase

Memo from Senior Power Engineer Mitch Larkin and Electric Utility Director Michelle Bertolino recommending Council approve the purchase of new 60kV circuit breakers

from Siemens Industry Inc. over the next five years to replace or install new breakers for various substations. Total cost for the five years is estimated at \$842,000.00. Funding is included in the Electric Department's Capital Improvement Project Budget.

CC #: 7308

File #: 0203-07

CONTACT: Mitch Larkin 746-1601 mlarkin@roseville.ca.us

7.6. Annual VMWare Software Maintenance and Support Subscription - Purchase Order

Memo from Buyer Joanna Oukrop and Central Services Director Paul Diefenbach recommending Council authorize a purchase order with Carahsoft Technology Corporation for an annual VMWare software maintenance and support subscription renewal utilizing the Federal General Services Administration schedule number GS-35F-0119Y. VMWare software is a virtual server solution. The subscription renewal ensures that the software is current and that 24/7/365 problem resolution support is available. The total cost of the purchase is \$52,840.93. Funding is included in the Information Technology Department's FY2015/16 Budget.

CC #: 7313

File #: 0203-06

CONTACT: Joanna Oukrop 774-5745 joukrop@roseville.ca.us

7.7. Polymer - Service Agreement Renewal

Memo from Buyer Babette Owens and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 15-522 APPROVING A SERVICE AGREEMENT RENEWAL BETWEEN CITY OF ROSEVILLE AND SOLENIS, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1603141). This is a request for Council to authorize a service agreement renewal with Solenis, LLC for Praestol K275FLX polymer. The Environmental Utilities Department Dry Creek Wastewater Treatment Plant has an ongoing requirement for polymer. This chemical is used in the "dewatering" of waste byproduct called sludge. This treatment process is necessary as it reduces the overall weight of the sludge. The estimated cost of the agreement is \$200,000.00. Funding is included in the Environmental Utilities Department's FY2015/16 Budget and proposed FY2016/17 Budget.

CC #: 7330

File #: 0203-03

CONTACT: Babette Owens 774-5704 bowens@roseville.ca.us

7.8. Elevator Maintenance - Service Agreement Renewal

Memo from Building Maintenance Supervisor Dan Allen and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 15-521 APPROVING A SERVICE AGREEMENT RENEWAL BETWEEN CITY OF ROSEVILLE AND OTIS ELEVATOR AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1605014). City facility elevators and lifts require regularly scheduled preventive maintenance, repair, testing, and on-call service by a qualified licensed elevator contractor. This is the second and final renewal for this service agreement with Otis Elevator. The total value on the agreement renewal for this year is \$28,000.00. Funding is included in the Building Maintenance Division FY2015/16 Budget.

CC #: 7314

File #: 0203-04

CONTACT: Dan Allen 774-5741 dallen@roseville.ca.us

7.9. Alarm Permitting and False Alarm Reduction Program - Service Agreement

Memo from Department Public Information Officer Dee Dee Gunther and Police Chief Daniel Hahn recommending Council adopt RESOLUTION NO. 15-526 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND PUBLIC SAFETY CORPORATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1603007). Staff is requesting a new service agreement with Public Safety Corporation for alarm permitting and administration of the City's false alarm reduction program. Public Safety Corporation has been providing processing, monitoring and collection of alarm permits and false alarm fines on behalf of the City since 2011. The new agreement authorizes Public Safety to retain 45% of alarm fees and charges for the first \$75,000.00 of alarm-related revenue collected, and 32.5% for revenues collected beyond that point. This is a performance based contract; therefore, monies are not allocated in the annual budget as an expenses, but Public Safety collects all fines and fees and makes payments to the City for revenues collected while retaining their percentage earned based on contract amounts. The proposed contract is for up to \$75,000.00 in retained fees over the two-year period of the contract.

CC #: 7340

File #: 0323

CONTACT: Jason Bosworth 774-5052 jbosworth@roseville.ca.us

7.10. Uninterruptible Power Supply Maintenance Services - Service Agreement Renewal

Memo from Buyer Babette Owens and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 15-529 APPROVING A SERVICE AGREEMENT RENEWAL BETWEEN CITY OF ROSEVILLE AND M.C. DEAN, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1603183). Authorize a service agreement renewal with M.C. Dean, Inc., for uninterruptible power supply (UPS) maintenance services. The City's Information Technology Department uses UPS units to supply power, via batteries, to technology infrastructure in the case of a power failure. The estimated annual cost of the agreement is \$23,350.00. Funding is included in the Information Technology Department's FY2015/16 and FY2016/17 fiscal year budgets.

CC #: 7321

File #: 0203-06

CONTACT: Babette Owens 774-5704 bowens@roseville.ca.us

7.11. Reporting Services for Affordable Care Act - Service Agreement Amendment

Memo from Finance Manager Kristi Corral and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 15-523 APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND TRINITY TECHNOLOGY GROUP AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1605224). This item requests City Council approve an amendment to a service agreement with Trinity Technology Group to prepare Affordable Care Act reports with data held in the City's financial systems and the City's time and attendance system. Neither of these systems provide features capable of meeting the reporting requirements and require data interfaces to develop the required reports for employees and the Internal Revenue Service. The fiscal impact to this amendment to the service agreement with Trinity Technology Group is \$58,160.00 for a total project cost of \$77,940.00 and is available in the Finance Department's FY16 Budget.

CC #: 7320

File #: 0200

CONTACT: Kristi Corral 774-5316 kcorral@Roseville.ca.us

7.12. Roseville Energy Park Maintenance Support and Repair Services - Service Agreement

Memo from Power Generation Superintendent Matt Garner and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 15-533 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND AQUATECH INTERNATIONAL INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1603192). This item is approving a multi-year sole source service agreement with Aquatech International Inc. for maintenance support and repair services at the Roseville Energy Park. Funding is included in the Electric Department Budget for FY16. Cost of the service agreement for FY16 is not expected to exceed \$40,000.00. The total cost of the service agreement for 5 years if the option to renew is exercised will be \$200,000.00.

CC #: 7305

File #: 0800-03

CONTACT: Matt Garner 746-1691 mgarner@roseville.ca.us

7.13. Residential LED Lighting Program - Service Agreement

Memo from Energy Service Account Representative David Bradford and Electric Utility Director Michele Bertolino recommending Council adopt RESOLUTION NO. 15-532 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND GREENLITE LIGHTING CORPORATION USA, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1604331). This item requests approval of a service agreement with Greenlite Lighting Corporation USA for an energy efficiency residential LED lighting program. The service agreement is for a one year period at a cost not to exceed \$400,000.00. Funding is included in the FY16 Electric Retail Services Budget for Public Benefits programs.

CC #: 7304

File #: 0800-03

CONTACT: David Bradford 746-1672 dbradford@roseville.ca.us

7.14. Solar Calculator Development - Service Agreement

Memo from Key Account Representative Kris Blair and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 15-531 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND CLEAN POWER RESEARCH AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1605223). This item requests approval of a service agreement for the development of a web-based solar calculator to assist electric customers with customized analysis of the potential for installing a rooftop solar system. The service agreement is for three years and is not to exceed \$100,000.00. Funding is included in the FY16 Electric/Retail Services Budget for Public Benefits Programs.

CC #:7303

File #: 0800-03

CONTACT: Kris Blair 774-5581 kblair@roseville.ca.us

7.15. Roseville Energy Park Parts & Services - Service Agreement

Memo from Power Generation Superintendent Matt Garner and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 15-534 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND INTEC SOLUTIONS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1603412). This item is approving a sole source service agreement with Intec Solutions, Inc., in the amount of \$55,000.00 for the parts and services to repair Roseville Energy Park gas turbine starting motor drives.

CC #: 7306

File #: 0800-03

CONTACT: Matt Garner 746-1691 mgarner@roseville.ca.us

7.16. Utility Bill Print and Electronic Bill Payment and Presentment Services - Professional Services Agreement

Memo from Utility Billing Manager Andrea Blomquist and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 15-547 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND INFOSEND, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Infosend, Inc. has provided utility billing print and Electronic Bill Payment and Presentment (EBPP) services to the City of Roseville since 2007. The City of Roseville is currently upgrading to a new Customer Information System (CIS) for utility billing. As part of this project, the City will be implementing some changes to our EBPP information and bill print formats. This contract with Infosend, Inc. addresses these updates and includes language for changes to the EBPP process. We are seeking to retain Infosend, Inc. services for a contract period of 24 months, or 12 months after go-live of the new CIS billing system, whichever is longer. This contract is based on a contingency fee schedule which is already included in the FY16 Finance Utility budget, estimated at \$453,000.00 for bill print, mail, payments and EBPP services. There is no additional impact to the City's General Fund.
CC #: 7350

File #: 0200

CONTACT: Andrea Blomquist 774-5317 ablomquist@roseville.ca.us

7.17. Utility Billing Payment Processing - Professional Services Agreement

Memo from Billing Services Manager Andrea Blomquist and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 15-548 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND INVOICE CLOUD, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. As a part of the Utility Billing Customer Information System (CIS) project, there is a need for the City to have an integrated payment processor for utility payments. A Request for Proposal (RFP) was issued in July 2015. On August 20, 2015, one proposer responded to the RFP. A committee of five, including the Billing Services Manager, a Financial Analyst, Finance Supervisor and other utility billing staff, reviewed the response. Based on a review of the proposal, experience, customer service and price, Invoice Cloud, Inc. was selected as the vendor of choice. Invoice Cloud, Inc. has an advanced technical advantage and real time interface with Cayenta, our new utility billing system and Selectron Technologies, Inc, for our Interactive Voice Response (IVR) phone system for utility billing payments. These real time interfaces will improve customer service and create a more interactive experience with our customers. The cost of Invoice Cloud's service will be based on a fee schedule and the number of payments initiated by our utility billing customers. The new contract for utility billing payment processing is for three years, with annual renewal thereafter. This contract is based on a contingency fee schedule which is already included in the FY16 Finance Utility budget, estimated at \$205,000.00 annually. There is no impact to the City's General Fund.

CC #: 7351

File #: 0200

CONTACT: Andrea Blomquist 774-5317 ablomquist@roseville.ca.us

7.18. Contract Program Instruction Services Agreement

Memo from Parks & Recreation Supervisor Roni Garrison and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-541 APPROVING A CONTRACT INSTRUCTOR AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND PLAY-WELL TEKNOLOGIES, AND AUTHORIZING THE CITY

MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 15-542 APPROVING A CONTRACT INSTRUCTOR AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND KIDZ LOVE SOCCER, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 15-543 APPROVING A CONTRACT INSTRUCTOR AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND DULCENE (BETSY) KESSING, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is a request to authorize the execution of Contract Program Instructor Agreements on behalf of the City. Annual payments are based on program registration and are projected to be close to without exceeding: Kidz Love Soccer - \$41,000.00; PlayWell TEKnologies - \$28,000.00; Dulcene (Betsy) Kessing - \$22,000.00. Funding is provided in the F2015/16 Budget and will be included in the FY2016/17 and FY2017/18 Budgets.

CC #: 7338

File #: 0704-01

CONTACT: Roni Garrison 774-5950 rgarrison@roseville.ca.us

7.19. Parks and Landscape Maintenance - Professional Services Agreements Extension

Memo from Parks Superintendent Eric Dexter and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-545 APPROVING A FIRST AMENDMENT TO PARK AND LANDSCAPE MAINTENANCE SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND COAST LANDSCAPE MANAGEMENT, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 15-546 APPROVING A FIRST AMENDMENT TO PARK AND LANDSCAPE MAINTENANCE SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND CAGWIN AND DORWARD LANDSCAPE CONTRACTORS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is a request for Council to authorize two, 2-year first amendment to Park and Landscape Maintenance Services Agreement with Cagwin and Dorward Landscape Contractors as well as Coast Landscape Management, for parks and landscape maintenance. The estimated annual cost of the agreement is \$7,310,917.34, not to exceed budgeted amount. The funds for these contracts have been allocated through the various FY2015/16 operating budgets which include Parks, Recreation, and Libraries, Central Services, Environmental Utilities, and all of the Community Facility Districts and Lighting & Landscape Districts and will be included in all future operations budgets through 2017.

CC #: 7336

File #: 0704-01

CONTACT: Eric Dexter 746-1769 edexter@roseville.ca.us

Resolutions

7.20. Street Closure Request - Commitment Day Run - January 1, 2016

Memo from Community Relations Analyst Jamie Hazen and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-544 APPROVING AN AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND LIFETIME FITNESS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests street closures on Friday, January 1, 2016 from 8:30 - 11:30 a.m. for the Commitment Day Run. Street closures will include Stone Canyon Drive between the residential gate of the Stone Ridge subdivision and East Roseville Parkway; and westbound lanes two and three from Alexandra Drive to the Lifetime Fitness business entrance on East Roseville Parkway for the Commitment Day 5k Fun Run organized by Lifetime Fitness. All costs associated with this event for City services will be reimbursed by Lifetime Fitness.

CC #: 7337

File #: 0109-02

CONTACT: Jamie Hazen 774-5978 jhazen@roseville.ca.us

7.21. Road "B" (aka Fidelity Way) - Dedication as Public Right of Way

Memo from Assistant Engineer Kerry Andrews and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 15-539 ACCEPTING AN OFFER OF DEDICATION OF ROAD "B" AS PUBLIC RIGHT OF WAY. In 2010, the Planning Commission approved a Major Project Permit for the Blue Oaks Commerce Center. The approved site plan for the project included a new public road connection to Blue Oaks Blvd. The connecting road, identified as Road "B" and since named Fidelity Way, requires access through Caltrans right of way to make the connection to Blue Oaks Blvd. This action is the approval of a resolution to accept the offer of Road "B" as public right of way. This action will not impact the General Fund as all costs are funded by the developer.

CC #: 7342

File #: 1002-06

CONTACT: Kerry Andrews 774-5339 kandrews@roseville.ca.us

7.22. Eskaton Village Phase 4C - Certificate of Completion

Memo from Construction Inspector Orville Chatterton and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 15-519 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS ESKATON VILLAGE PHASE 4C PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made a final inspection of the project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications. The right of way, public utility, and drainage easements will be conveyed to the City by separate document and will be recorded concurrently with the Certificate of Completion. There is no fiscal impact to the General Fund as improvements have been funded by the developer.

CC #: 7295

File #: 0400-04-07-1

CONTACT: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

7.23. 2015 Residential Resurfacing Project - Notice of Completion

Memo from Assistant Engineer Noah Siviglia and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 15-536 ACCEPTING THE PUBLIC WORK KNOWN AS THE 2015 RESIDENTIAL RESURFACING PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The scope of this project included a roadway resurfacing application to portions of Phillip Road and the Silverado Village, Silverado Oaks, and Fiddymont Farms subdivisions. The resurfacing application provides a water proof membrane to protect the existing street surface and extend the life of the underlying pavement. The Engineering Division has made the final inspection of the project and has found the work to be completed in accordance with the improvement plans and City specifications and it is now ready for acceptance. In accordance with the specifications and the Faithfull Performance Bond, the contractor shall guarantee the installations of the improvements for a period of twelve months from the date of notice of completion. The project cost was \$1,741,242.49 and was funded with Gas Tax.

CC #: 7289
File #: 0900-04-01
CONTACT: Noah Siviglia 746-1379 nsiviglia@roseville.ca.us

7.24. Caltrans Freeway Agreement for Blue Oaks Commerce Center for Fidelity Way –
Dropped from Agenda to be Re-listed at Later Date

Memo from City Engineer Marc Stout and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 15-525 APPROVING A FREEWAY AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of a resolution authorizing the Acting City Manager to execute a Freeway Agreement with Caltrans for proposed improvements within Caltrans right of way. The City has no fiscal responsibility for improvements within Caltrans right of way, as all improvements are the responsibility of a private developer. This action does not correlate into a quantifiable economic benefit and no CEQA action is required.

CC #: 7309
File #: 0800-06
CONTACT: Marc Stout 774-5339 mstout@roseville.ca.us

7.25. Atlantic Street/East Washington Boulevard Residential Permit Parking

Memo from Senior Engineer Jana Cervantes and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 15-535 APPROVING TEMPORARY RESIDENTIAL PERMIT PARKING. This item requests a resolution approving eight temporary permit parking spaces in the downtown area in the vicinity of Atlantic Street and East Washington Boulevard for the purpose of residential permit parking for the residents located above the business at that location. This permit parking would be temporary and the program would expire upon completion of the new Oak Street Parking Garage. The estimated cost for this work, including materials and staff time, is under \$1,000.00 and is included in the Street Division's existing operating budget.

CC #: 7292
File #: 0316-03
CONTACT: Jana Cervantes 774-5498 jcervantes@roseville.ca.us

7.26. Flexible Spending Benefits - Agreements

Memo from Human Resources Manager Lisa Achen and Human Resources Director Gayle Satchwell recommending Council adopt RESOLUTION NO. 15-518 APPROVING AGREEMENTS BY AND BETWEEN THE CITY OF ROSEVILLE AND P&A ADMINISTRATIVE SERVICES, INC. AND AUTHORIZING THE CITY MANAGER TO EXECUTE THEM ON BEHALF OF THE CITY OF ROSEVILLE. This is a request to secure an agreement for professional services with P&A Group to administer flexible spending arrangement and COBRA programs for employees as part of the City's comprehensive benefit package. The annual cost is \$9,744.00 per year which is guaranteed for a five (5) year timeframe. This results in an 11% or \$6,090.00 total savings from the previous vendor. The Human Resources Department has budgeted for this in the current approved FY2016 Budget.

CC #: 7333
File #: 0600-04
CONTACT: Lisa Achen 774-5205 lachen@roseville.ca.us

7.27. Employer's Fixed Contribution for Employees and Annuitants Adjustment

Memo from Human Resources Manager Lisa Achen and Human Resources Director Gayle Satchwell recommending Council adopt RESOLUTION NO. 15-516 ADJUSTING

THE EMPLOYER'S FIXED CONTRIBUTION AT AN EQUAL AMOUNT FOR EMPLOYEES AND ANNUITANTS UNDER THE PUBLIC EMPLOYEES' MEDICAL AND HOSPITAL CARE ACT; and adopt RESOLUTION NO. 15-517 ADJUSTING THE EMPLOYER'S FIXED CONTRIBUTION UNDER SECTION 22893 OF THE PUBLIC EMPLOYEES' MEDICAL AND HOSPITAL CARE ACT WITH RESPECT TO A RECOGNIZED EMPLOYEE ORGANIZATION. This item is to obtain Council authority to submit resolutions to California Public Employees' Retirement System to 1) adjust the employer's fixed contribution at an equal amount for Tier 1 and Tier 2 employees and annuitants as directed under Government Code Section 22892; and 2) provide postretirement health benefits vesting requirements to employees who retire for service in accordance with Government Code Section 22893.

CC #: 7291

File #: 0600-04

CONTACT: Lisa Achen 774-5205 lachen@roseville.ca.us

7.28. Placer County Regional 9-1-1 Committee Intergovernmental Agency Agreement

Memo from Police Department Public Information Officer Dee Dee Gunther and Police Chief Daniel Hahn recommending Council adopt RESOLUTION NO. 15-540 APPROVING AN INTERGOVERNMENTAL AGENCY AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, THE CITY OF AUBURN, THE CITY OF LINCOLN, AND THE COUNTY OF PLACER, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Placer County Sheriff's Office and the police departments of Auburn, Lincoln, Rocklin, and Roseville are proposing to acquire separate but networked 9-1-1 call management systems. The regionally networked systems will allow each agency to help each other during periods of unusually heavy 9-1-1 call volume, or in the event of a system failure at any of the participating agencies' 9-1-1 centers. The staff of each agency have developed the Intergovernmental Agency Agreement to govern the management of the regionally networked system. The agreement has no fiscal impact.

CC #: 7300

File #: 0323

CONTACT: Katie Braverman 774-5037 kbraverman@roseville.ca.us

7.29. HP Campus Oaks Communities Facilities District No. 1 - Resolution Confirming the Issuance and Sale of Special Tax Bonds

Memo from Administrative Analyst Jeannine Thrash and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 15-528 CONFIRMING THE ISSUANCE AND SALE OF SPECIAL TAX BONDS, APPROVING OFFICIAL STATEMENT, BOND PURCHASE AGREEMENT AND AUTHORIZING RELATED DOCUMENTS AND ACTIONS WITH RESPECT TO HP CAMPUS OAKS COMMUNITY FACILITIES DISTRICT NO. 1 (PUBLIC FACILITIES). On August 16, 2015, the City Council adopted a Resolution of Intention to Form a Community Facilities District and Levy a Special Tax in HP Campus Oaks Community Facilities District No. 1 (Public Facilities). On September 22, 2015 Council adopted a Resolution which formed the District and a Resolution on September 22, 2015 (the "Resolution of Issuance") which authorized the issuance of special tax bonds of the City for the CFD designated as "City of Roseville HP Campus Oaks Community Facilities District No. 1 (Public Facilities) Special Tax Bonds Series 2015" in an aggregate principal amount not to exceed \$36,000,000. Approval of this item will authorize the City to proceed with a bond sale after the 60 day validation period should the City choose to. The approval of the Preliminary Official Statement, Bond Purchase Agreement, nor any other related documents as part of this item has any fiscal impact on the General Fund.

CC #: 7301

File #: 0206-03-01

CONTACT: Jeannine Thrash 774-5473 jthrash@roseville.ca.us

Monty Hanks 774-5313 mhanks@roseville.ca.us

7.30. Northwest Roseville Specific Plan Parcel No. 27 - Workout and Settlement Agreement Amendment

Memo from Financial Analyst Vanessa Lieberman and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 15-514 AUTHORIZING THE FOURTH AMENDMENT TO THE WORKOUT AND SETTLEMENT AGREEMENT REGARDING DELINQUENT SPECIAL TAXES AND SPECIAL ASSESSMENTS LEVIED UPON NWRSP PARCEL 27. Staff recommends Council adopt the Fourth Amendment to the Workout and Settlement Agreement regarding delinquent special taxes and special assessments levied upon a 15 acre real property in the Northwest Roseville Specific Plan (NWRSP) Parcel No. 27, and authorize the Acting City Manager to execute the agreement on behalf of the City. The parcel is located on McAnally Drive between Woodcreek Oaks Blvd and Country Club Drive. CC Drive, L.L.C. acquired the property with the intent of curing a 16-year special tax/assessment default totaling nearing \$535,000.00 by way of a workout agreement with the City. The purpose of this amendment is to provide the landowner with additional time to bring the taxes current by substituting a payment due date of December 10, 2017 for the current December 10, 2015 requirement. The amended workout and settlement agreement will delay payment of CFD taxes for Parcel 27A but will not negatively impact payment of NWRSP CFD bond payments, nor will it increase special taxes for other properties within the NWRSP CFD.

CC #: 7332

File #: 0206-03-01

CONTACT: Vanessa Lieberman 774-5189 vlieberman@roseville.ca.us

7.31. Proposition 1B Transit System Safety, Security, and Disaster Response Account FY2013/14 Grant Authorization

Memo from Financial Analyst Elizabeth Haydu and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 15-537 AUTHORIZING CITY MANAGER OR HIS DESIGNEE TO SUBMIT FY2013/14 TRANSIT SYSTEM SAFETY, SECURITY AND DISASTER RESPONSE ACCOUNT GRANT APPLICATIONS AND TO EXECUTE THE RELATED GRANT APPLICATIONS, FORMS AND AGREEMENTS. This item requests authorization of the City Manager or his designee to submit the FY2014 Transit System Safety, Security and Disaster Response Account Grant Application and to execute all related forms and agreements. An allocation of \$80,081.00 is available to the City. The City will apply for these funds to purchase and install shelters, benches, lighting, video security equipment and signs at Roseville Transit bus stops.

CC #: 7343

File #: 0214

CONTACT: Elizabeth Haydu 746-1302 ehaydu@roseville.ca.us

7.32. 316 Vernon Office Building - Professional Services Agreement Amendment

Memo from Development Services Manager Mike Isom and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 15-515 APPROVING A THIRD AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND ENGEO, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is the third amendment to a professional services agreement with Engeo, Inc. for geotechnical engineering services associated with the 316 Vernon Office

Building project. The proposed amendment adds \$15,400.00 to the contract for additional site observation, soil sampling/lab analysis, and preparation of an underground storage tank closure plan. The amendment results in a revised not-to-exceed total of \$79,778.00. Sufficient funds are available in the 316 Vernon Office Building Project Fund; no General Fund monies are required.

CC #: 7290

File #: 0401-02-02-1

CONTACT: Mike Isom 774-5527 misom@roseville.ca.us

7.33. Golf Course Maintenance - Services Agreement

Memo from Recreation Superintendent Rob Nakamura and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 15-527 APPROVING A GOLF MAINTENANCE SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND VALLEYCREST GOLF COURSE MAINTENANCE, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests execution of a five (5) year contract agreement with ValleyCrest Golf Course Maintenance, Inc. for ongoing maintenance at the Woodcreek Golf Club and Diamond Oaks Golf Course. Total cost of service is \$8,500,000.00. Funding has been allocated in FY2015/16 budget and will be included in all future operations budgets through FY2019/20 in the Parks, Recreation & Libraries Contract Services Budget.

CC #: 7297

File #: 0702

CONTACT: Rob Nakamura 774-5135 rnakamura@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

7.34. Amoruso Ranch Specific Plan - Budget Adjustment

Memo from Administrative Analyst Brandy LeBeau and Development Services Director Kevin Payne recommending Council adopt ORDINANCE NO. 5595 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Development Services Department, Planning Division, requests that the City Council adopt an ordinance for a budget adjustment of \$200,000.00 for professional services and City staff costs required for the processing of the Amoruso Ranch Specific Plan. Funding for this budget adjustment will be provided through reimbursement by the project proponent. This item will not have an impact on the General Fund.

CC #: 7293

File #: 0201-01 & 0400-04-15

CONTACT: Brandy LeBeau 774-5278 blebeau@roseville.ca.us

7.35. Residential Water and Energy Efficiency Program - Professional Services Agreement and Budget Adjustment

Memo from Senior Energy Services Account Representative Mark Riffey and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 15-530 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND SYNERGY COMPANIES, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 5602 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests a professional services agreement and budget adjustment for an energy and water conservation program for Roseville's

eligible low income residents at a cost not to exceed \$550,000.00. The source of the funding is \$350,000.00 from Roseville Electric Utility's FY16 budget for the 2014 Greenhouse Gas Free Allowance Proceeds Spending Plan and \$200,000.00 in funding from the FY16 Electric Retail Services budget for Public Benefits programs.

CC #: 7311

File #: 0800-03 & 0201-01

CONTACT: Mark Riffey 746-1667 mriffey@roseville.ca.us

7.36. Temporary Classification and Salary Changes

Memo from Senior Human Resources Analyst Linda Hampton and Human Resources Director Gayle Satchwell recommending Council adopt ORDINANCE NO. 5603 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5422, THE SALARY ORDINANCE FOR SEASONAL/TEMPORARY EMPLOYEES, AS AMENDED BY APPENDIX "D" TO BE EFFECTIVE DECEMBER 26, 2015, AS AN URGENCY MEASURE. Temporary employees are utilized by the City to assist in the delivery of services by filling seasonal, specialized or short-term service. With a new minimum wage going into effect January 1, 2016, staff has reviewed existing temporary classifications and the related salary schedules. Also as part of this effort, staff is proposing five new classifications and hourly salaries to better track hours for employee's previously paid a percentage of class participation. In addition, staff is requesting the deletion of a classification that is no longer needed. It is recommended that the City Council adopt an ordinance to approve the Temporary salary schedule (Appendix D) effective December 26, 2015. Temporary salary increases due to the minimum wage change were included in the FY16 budget. The fiscal impact is approximately \$133,500.00.

CC #: 7344

File #: 0600-01

CONTACT: Linda Hampton 774-5215 lhamp@roseville.ca.us

7.37. Citizens' Benefit Fund Grant Acceptance and Budget Adjustment

Memo from Fire Chief Rick Bartee and Fire Inspection Supervisor Rob Arnett recommending Council adopt ORDINANCE NO. 5604 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The requested ordinance will amend the budget related to the award of a \$5,000.00 grant from the Citizens' Benefit Fund. The grant was awarded for the purpose of improving the quality of life for the citizens of Roseville. The Roseville Fire Department will use the grant funds to assist with fire education and related programs; materials needed to support the volunteer program, and assist with the cost of materials needed for the Vial of Life Program. There is no impact to the General Fund.

CC #: 7329

File #: 0201-01 & 0214

CONTACT: Rob Arnett 774-5827 rarnett@roseville.ca.us

7.38. Intertie and Zone 4 Transfer Pump Stations Project - Budget Adjustment

Memo from Senior Engineer Jose Lopez and Environmental Utilities Director Richard Plecker recommending Council adopt ORDINANCE NO. 5601 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Intertie and Zone 4 Transfer Pump Station Project increases local water supply reliability during emergency and drought situations. To assist with project costs, the City received a drought grant through the Prop 84

funding program towards the project. Additional costs for grant management and reporting expenses to the Department of Water Resources are estimated to total \$60,000.00. During construction, additional expenses were incurred due to unforeseen field conditions which total \$230,000.00. Staff is requesting the approval of a budget adjustment in the amount of \$290,000.00.

CC #: 7298

File #: 0201-01 & 0900-02

CONTACT: Jose Lopez 774-5688 jlopez@roseville.ca.us

7.39. Community Development Block Grant Fund - FY2015/16 Budget Adjustments

Memo from Financial Analyst Melissa Hagan and Economic Development Director Chris Robles recommending Council adopt ORDINANCE NO. 5605 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests the adoption of an ordinance authorizing FY2015/16 budget adjustments for the Community Development Block Grant (CDBG) fund. Increases to revenues will be funded from CDBG reimbursements from HUD not previously budgeted. The source of funds for the CDBG program are from an award to the City of Roseville allocated on an annual basis as an entitlement grant from the federal Housing and Urban Development Department and has no impact to the City's General Fund.

CC #: 7316

File #: 0201-01 & 0113-02

CONTACT: Melissa Hagan 774-5476 mhagan@roseville.ca.us

Chris Robles 774-5421 crobles@roseville.ca.us

7.40. General Fund Full Cost/Consolidated Billing - Budget Adjustment

Memo from Administrative Analyst Brandy LeBeau and Development Services Director Kevin Payne recommending Council adopt ORDINANCE NO. 5599 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Development Services is requesting the transfer of funds from consolidated billing to full cost/consolidated billing to create budgeting and tracking under one number. This action will increase the budget for full cost/consolidated billing by \$200,000.00 ensuring budget spending authority. This amount is 100% recoverable and does not impact the General Fund.

CC #: 7296

File #: 0201-01 & 0800-06

CONTACT: Brandy LeBeau 774-5278 blebeau@roseville.ca.us

7.41. The Gathering Inn - Budget Adjustment

Memo from Economic Development Manager Laura Matteoli and Economic Development Director Chris Robles recommending Council adopt ORDINANCE NO. 5596 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This is a request to approve the City's General Fund Contingency monies in the amount of \$15,000.00 for The Gathering Inn, a Roseville non-profit aimed at providing supporting services to Roseville homeless population.

CC #: 7314

File #: 0201-01 & 0709-05

CONTACT: Laura Matteoli 774-5284 lmatteoli@roseville.ca.us

7.42. Sewer Model Update Project - Professional Services Agreement Amendment and Budget Adjustment

Memo from Senior Engineer George Hanson and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 15-524 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT BETWEEN CITY OF ROSEVILLE AND RMC WATER AND ENVIRONMENT, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 5598 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This first amendment to the Professional Services Agreement with RMC Water and Environment provides additional funding to support the completion of the Sewer Model Update Project. The additional funding requested is \$289,963.00 and will be funded from the available resources of the Wastewater Operations Fund. The Sewer Model Update Project has a current fund balance of \$101,131.00. The requested budget adjustment will bring the project fund balance to \$391,094.00.

CC #: 7334

File #: 0900-02-01 & 0201-01

CONTACT: George Hanson 746-1764 ghanson@roseville.ca.us

7.43. Roseville Firefighters, Local 1592 – Budget Adjustment

Memo from Budget Manager Kathy Cullen and Finance Director Monty Hanks recommending Council adopt ORDINANCE NO. 5606 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. At the City Council Meeting on October 21, 2015, the City Council approved a Memorandum of Understanding (MOU) between the City and the Roseville Firefighters, Local 1592. A budget adjustment in the amount of \$499,200.00 is needed to update the FY2015/16 General Fund Budget with the cost of the provisions in the MOU.

CC #: 7302

File #: 0201-01 & 0600-01

CONTACT: Kathy Cullen 746-1306 kcullen@roseville.ca.us

Reports / Requests

7.44. Campus Oaks - Large Lot Final Map

Memo from Assistant Engineer Kerry Andrews and Development Services Director Kevin Payne recommending Council approve the final map on file with the City Clerk and accept on behalf of the public, subject to improvement, the easements offered thereon for dedication, but reject at this time on behalf of the public all irrevocable offers of dedication. The Large Lot Final Map for the Campus Oaks project will be creating 24 large lots designated for future development, 3 park parcels, a public well site parcel, a fire station parcel and 4 open space lots. The map is consistent with the approved entitlements for this project. There is no General Fund impact associated with this action.

CC #: 7299

File #: 400-07

CONTACT: Kerry Andrews 774-5339 kandrews@Roseville.ca.us

7.45. Appointment of Youth Board Member and Youth Commissioners

Memo from Deputy Clerk Mary Esquivel and City Clerk Sonia Orozco recommending Council appoint Kaylee Denio as the Library Board Youth Member, Logan Cole as the

Parks and Recreation Commission Youth Commissioner, Wafeeq Ridhuan as the Roseville Grants Advisory Commission Youth Commissioner, and Emily Nunez as the Transportation Commission Youth Commissioner.

CC #: 7327

File #: 0103

CONTACT: Mary Esquivel 774-5266 mesquivel@roseville.ca.us

7.46. Environmental Utilities Department - Staffing Changes

Memo from Senior Human Resources Analyst Linda Hampton and Human Resources Director Gayle Satchwell recommending Council add an Engineering Technician allocation to meet the business needs of the Environmental Utilities (EU) Department. The fiscal impact is approximately \$42,913.00 and can be absorbed in the FY2016 EU Budget due to current salary savings. It is recommended that the Council approve the EU allocation schedule to become effective December 19, 2015.

CC #: 7315

File #: 0600-01

CONTACT: Linda Hampton 774-5215 lhampton@roseville.ca.us

7.47. Year End Performance Report - Fiscal Year 2014-15

Memo from Budget Manager Kathy Cullen and Finance Director Monty Hanks with the Year End Performance Report for the fiscal year ended June 30, 2015. The Year End Performance Report includes a series of graphs illustrating significant trends in major operational areas, unaudited financial analysis by fund, and performance reporting on specific organizational objectives for FY2014/15. This item is a performance report only and has no fiscal impact.

CC #: 7323

File #: 0202-01

CONTACT: Kathy Cullen 746-1306 kcullen@roseville.ca.us

7.48. Housing Authority Memo - Status Report

Memo from Housing Analyst Nancy Cox and Housing Authority Assistant Director Chris Robles with the Housing Authority status report regarding lease-up for the Housing Choice Voucher Program (also known as the Section 8 Program). The Council, acting as the Roseville Housing Authority, is not required to take any action. This report is for informational purposes only.

CC #: 7319

File #: 0709-02-01

CONTACT: Nancy Cox 774-5451 ncox@roseville.ca.us

Ceremonial Documents

7.49. Resolution of Commendation and Appreciation to Laurie DeChateau

Laurie DeChateau be commended for her outstanding service and dedication to the City of Roseville, congratulated for her many accomplishments, and wished a long, healthy, and enjoyable retirement.

CC #: 7347

File #: 0102-10

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

7.50. Resolution of Commendation and Appreciation to Gene Paolini

Gene Paolini be commended for his outstanding service and dedication to the City of Roseville, congratulated for his many accomplishments, and wished a long, healthy, and enjoyable retirement.

CC #: 7348

File #: 0102-10

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

7.51. Resolution of Congratulations to Fernanda Farripas Pope – **Removed from Consent Calendar for Presentation**

Fernanda Farripas Pope be congratulated on obtaining United States Citizenship.

CC #: 7324

File #: 0102-10

CONTACT: Heather Blanco 774-5365 hblanco@roseville.ca.us

7.52. Proclamation for School Choice Week

Proclaiming January 24-30, 2016 as School Choice Week and urge all citizens to acknowledge and support the organizations and services that develop students.

CC #: 7326

File #: 0102-06

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

Motion by Herman, seconded by Rohan, to drop item 7.24, remove item 7.51 from the agenda for presentation and that the remaining items be approved as recommended.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci, Garcia

Noes: None

Absent: None

END OF CONSENT CALENDAR

8. MINUTES

8.1. Minutes of Previous Meetings

Memo from City Clerk Sonia Orozco recommending Council approve the Minutes of the August 18, 2015 City Council Special Closed Session (Herman absent), September 16, 2015 City Council/Roseville Natural Gas Financing Authority Meeting (Herman absent).

CC #: 7346

File #: 0102-03

CONTACT: Sonia Orozco 774-5263 sorozco@roseville.ca.us

City Clerk Sonia Orozco requested approval.

Motion by Gore, seconded by Rohan, to approve the minutes of the August 18, 2015 City Council Special Closed Session and the September 16, 2015 City Council/Roseville Natural Gas Financing Authority Meeting.

Roll call vote: Ayes: Gore, Rohan, Roccucci, Garcia

Noes: None

Absent: None

Abstain: Herman

9. SPECIAL REQUESTS/REPORTS/PRESENTATION

9.1. Community Solar Project - Budget Adjustment

Memo from Senior Energy Services Account Representative Mark Riffey and Electric Utility Director Michelle Bertolino recommending Council adopt ORDINANCE NO. 5597 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN

AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Community Solar is a Roseville Electric Utility project that enables customers to invest in a portion of a centrally located solar project sponsored by the utility, as an alternative to roof top installations. The budget adjustment for \$150,000.00 will fund the Community Solar Project for initial activities, including environmental reviews and related project costs. Funds are available in the Electric Operations Fund.

CC #: 7294

File #: 0201-01 & 0800-03

CONTACT: Mark Riffey 746-1667 mriffey@roseville.ca.us

Electric Utility Director Michelle Bertolino introduced Legislative and Regulatory Supervisor Shawn Matchim.

Electric Utility Director Michelle Bertolino made the presentation to Council.

Legislative and Regulatory Supervisor Shawn Matchim continued the presentation.

Benjamin Johns, representing Sun Edison, spoke in support.

Motion by Herman, seconded by Roccucci, to adopt ORDINANCE NO. 5597 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci, Garcia

Noes: None

Absent: None

9.2. Falls Event Center - Commercial Fee Deferral - Public Hearing

Memo from Economic Development Manager Laura Matteoli and Economic Development Director Chris Robles recommending Council adopt RESOLUTION NO. 15-538 APPROVING A COMMERCIAL FEE DEFERRAL. This item requests authorization of deferral of development impact fees for the Falls Event Center in the amount of \$226,685.54 until final of building permit/building occupancy. The Fall Event Center fee deferral will result in a loss of interest income on monies deferred over the construction timeframe. The recommended 2% interest charge is intended to cover these costs. Specifically, according to the City's Finance Department, the City's pooled interest rate ten year average is approximately 2.35%. However, since this is a ten year average that fluctuates, an interest charge of 2% is expected to recover the loss of interest during the time frame of this deferral.

CC #: 7312

File #: 0215-07

CONTACT: Laura Matteoli 774-5284 lmatteoli@roseville.ca.us

Economic Development Manager Laura Matteoli made the presentation to Council.

No public comment received.

Motion by Gore, seconded by Herman, to adopt RESOLUTION NO. 15-538 APPROVING A COMMERCIAL FEE DEFERRAL for the Falls Event Center.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci, Garcia

Noes: None

Absent: None

9.3. Citizens' Benefit Fund - Investment Strategies and Program Administration Review

Memo from Economic Development Manager Laura Matteoli and Economic Development Director Chris Robles recommending Council review the Citizens' Benefit Fund (CBF) investment and program options, recommend policy, and direct staff to bring back to Council an Ordinance formalizing Council's direction of the CBF as it relates to the following:

- Citizens Benefit Fund Grant Program and Fund Administration
- Investment Opportunities to Increase Returns
- Smoothing Strategy ((Funding for Lean Years)
- Confirmation of Program Funding Categories
- Program Limitations on Categories
- Priorities and Fund Allocation

The CBF benefits the community through annual grant funds awarded to non-profit organizations that provide community benefit to the citizens of Roseville. The annual community benefit to non-profits, for the past few years, has been approximately \$230,000.00. With the proposed investment and smoothing options, the fund balance in two to three years should see an annual increase to more than \$500,000.00. This is the targeted annual community giving. The annual cost to the General Fund for staff time spent to administer the program is \$25,000.00 to \$30,000.00.

CC #: 7335

File #: 0216-01

CONTACT: Chris Robles 774-5421 crobles@roseville.ca.us

Economic Development Director Chris Robles introduced Chief Financial Officer Jay Panzica and Economic Development Manager Laura Matteoli.

Economic Development Director Chris Robles made the presentation to Council.

Chief Financial Officer Jay Panzica continued the presentation to Council.

Economic Development Director Chris Robles and Economic Development Director Laura Matteoli continued the presentation to Council.

Julie Hirota, representing Blue Line Arts, thanked staff and spoke in support of investments that return greater funds.

Jeff Willoughby, Grants Advisory Commissioner/Member of the Roseville School District, spoke in support of expanding investments with more control of funding categories.

Dawn Heywood, Grants Advisory Commissioner, spoke in support of expanding investments with more control of funding categories.

Claudia Gamar Heinlein, former Mayor, spoke on historical details of the Citizens Benefit Fund.

Motion by Gore, seconded by Roccucci, to reaffirm retention of the Citizens' Benefit Fund (CBF) with the City, to be invested and administered by the City; reaffirm retention of Grants program and Commission with administration by City staff; and provide direction to staff to return with amended CBF funding guidelines as follows:

- 1) Accept investment strategy revisions expanding strategy consistent with Government Codes.
- 2) Reaffirm smoothing strategy or holding back proceeds in excess of \$500K and establish new

policy for annually utilizing proceeds in excess of \$500K for smoothing or special projects or community benefits.

3) Reaffirm the nine (9) funding program categories.

4) Retain limits on school districts and schools, as approved by the Grants Commission.

5) Continue policy that City Manager approve grants submitted for City requests.

6) Confirm no giving priorities with each funding request to be evaluated on its own merits.

7) Establish a program for and annual needs assessment for Council to consider and establish priorities for the coming funding cycle.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci, Garcia

Noes: None

Absent: None

10. PUBLIC HEARING

NOTICE TO THE PUBLIC

City Council, when considering the matter scheduled for hearing, will take the following actions:

1. Open the Public Hearing
2. Presentation by Staff
3. Presentation by applicant or Appellant
4. Accept Public Testimony
5. Appellant or Applicant Rebuttal Period
6. Close the Public Hearing
7. City Council Comments and Questions
8. City Council Action

In the future, if you wish to challenge in court any of the matters on this agenda for which a public hearing is to be conducted, you may be limited to raising only those issues, which you, or someone else raised orally at the Public Hearing or in written correspondence received by the City or before the hearing

Public Hearings listed for continuance will be continued as noted and posting of this agenda serves as notice of continuation.

10.1. Water and Solid Waste Rate - Municipal Code Revision

Memo from Business Services Manager Carol Margetich and Environmental Utilities Director Richard Plecker recommending Council introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 9.12.100 OF CHAPTER 9.12 OF TITLE 9, AMENDING SECTION 14.07.080 OF CHAPTER 14.07 OF TITLE 14, AND AMENDING SECTIONS 14.08.090, 14.08.091, 14.08.100, AND 14.08.130 OF CHAPTER 14.08 OF TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING UTILITY RATES. This item is a Public hearing to receive public comment and respond to questions regarding the proposed rate structure transition and rate increases for water. Proposed water rate schedule modification and water rate increases for fiscal years 2016 and 2017, and Municipal Code revisions to provide minor clarifications regarding commercial Solid Waste collection services.

CC #: 7307

File #: 0800-02

CONTACT: Carol Margetich 746-1712 cmargetich@roseville.ca.us

Mayor Garcia opened the public hearing.

Environmental Utilities Director Richard Plecker introduced Business Services Manager Carol Margetich.

Business Services Manager Carol Margetich made the presentation to Council.

Phil Ozenick, representing FORE, spoke in opposition.

Mayor Garcia closed the public hearing.

Motion by Rohan, seconded by Herman, to introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 9.12.100 OF CHAPTER 9.12 OF TITLE 9, AMENDING SECTION 14.07.080 OF CHAPTER 14.07 OF TITLE 14, AND AMENDING SECTIONS 14.08.090, 14.08.091, 14.08.100, AND 14.08.130 OF CHAPTER 14.08 OF TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING UTILITY RATES.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci, Garcia

Noes: None

Absent: None

11. COUNCIL / STAFF / REPORTS/ COMMENTS

Merry Christmas/Happy New Year – Councilmember Herman, Councilmember Roccucci, Councilmember Gore, Vice Mayor Rohan and Mayor Garcia extended happy holidays to the community.

Happy Birthday – Vice Mayor Rohan wished Mayor Garcia, Councilmember Herman, and Councilmember Roccucci a very happy birthday.

12. ADJOURNMENT

Motion by Herman, seconded by Gore, to adjourn the meeting at 9:40 p.m.

Vote: All Ayes

CAROL GARCIA, MAYOR

SONIA OROZCO, CMC
CITY CLERK



COUNCIL COMMUNICATION

CC #: 7485

File #: 0203-07-02

Title: Distribution Transformers - Purchase Orders
Contact: Peter Brevik 774-5724 pbrevik@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.2.

RECOMMENDATION TO COUNCIL

Recommend renewal of open purchase orders to General Pacific, Central Moloney Inc., Pacific Utilities and Anixter Power Solutions (formerly HD Supply Power Solutions) for the Electric Department's annual requirement of distribution transformers. The total cost of all transformer purchases for the year is estimated to be \$700,000.00, not to exceed budgeted amount.

BACKGROUND

The Electric Department has a recurring need for transformers. The purpose of the transformer is to convert power to a lower voltage to be used in homes and businesses. Transformers are bought and stored in the Central Stores yard until needed for projects. Central Stores items including transformers are not paid for by the Electric department until taken out of stock.

The City currently uses transformers with a fire-resistant, environment-friendly (FR3) type of oil. The FR3 type of oil has better environmental, fire safety, chemical and electrical properties over the previous mineral oil based transformer. FR3 is formulated from edible vegetable oils and food grade performance enhancing additives and as such does not contain any petroleum, halogens, silicones or any questionable materials. FR3 also has a higher fire and flash point making it less flammable. It demonstrates improved thermal characteristics with a viscosity closer to conventional transformer oil, superior dielectric strength in new and continued service applications and excellent stability over time.

This renewal reflects the second of four optional renewal years. The vendors have performed satisfactorily and in accordance with the terms and conditions of the bid.

FISCAL IMPACT

The total cost for the Electric Department's annual requirement of transformers is \$700,000.00, not to exceed budgeted amount. Funding is included in the Central Stores inventory replacement

account for the current fiscal year and pending council approval of budgets for next fiscal year.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not applicable.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15061(b)(3)). The purchase of transformers does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Peter Brevik, Buyer

Paul Diefenbach, Central Services Director

A handwritten signature in blue ink, appearing to read 'Rob Jensen', with a long horizontal stroke extending to the right.

Rob Jensen, City Manager



COUNCIL COMMUNICATION

CC #: 7489

File #: 1003

Title: 3701 Old Auburn Road - Surplus Property Determination and Purchase and Sale Agreement

Contact: Mike Isom 774-5527 misom@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.3.

RECOMMENDATION TO COUNCIL

Staff recommends that the Council take the following actions to dispose of a 271 square-foot piece of surplus City property:

1. Adopt a resolution determining the property described in Exhibit A to be unusable except by the owner of adjoining privately owned real property pursuant to Municipal Code §4.12.110.B;
2. Adopt a resolution authorizing the City Manager to execute the attached Purchase and Sale Agreement with TL Creekside, LP.

BACKGROUND

In May 2013, the City Council adopted a resolution declaring the Old Auburn Ranch property at 3701 Old Auburn Road as surplus to the needs of the City and directed staff to market the property for sale. On October 15, 2014, following a competitive bidding process, the Council approved a purchase and sale agreement authorizing the sale of the Old Auburn Ranch property to TL Creekside, L.P. for \$1.8 million. The property closed escrow in early 2015. All sale proceeds were returned to the Traffic Mitigation Fund, the funding source for the City's acquisition of the property in 1986 to facilitate a traffic control project that was ultimately never constructed. During final subdivision design, it was discovered that a 271 square-foot area that should have been included in the sale was not included in the grant deed legal description, and was therefore inadvertently omitted from the land transaction. As shown in Attachment 1, this small area sits between a residential lot and the landscape corridor (dedicated to the City as a "lettered lot" for LLD maintenance) at the corner of Old Auburn Road and Spahn Ranch Road. This configuration results in a fragment piece of City-owned property situated between private property and the landscape corridor. The fragment property is unusable by anyone except the adjoining private property owner (TL Creekside) and is not needed for public utility or landscape corridor purposes. Therefore, pursuant to the surplus property ordinance (RMC 4.12.110.B), staff recommends that the property be declared as surplus and sold to TL Creekside.

The proposed sale price is \$1,628, which is based on the original sale price of \$5.94 per square foot. The buyer will assume all costs associated with the transaction, including escrow and recordation fees.

FISCAL IMPACT

The disposal of 271 square feet of surplus property will result in proceeds of \$1,628, which will be returned to the Traffic Mitigation Fund.

ECONOMIC DEVELOPMENT / JOBS CREATED

Disposition of surplus city property is not expected to result in significant economic development benefits or direct job creation; however, indirect job creation may occur related to future residential construction on the property.

ENVIRONMENTAL REVIEW

The sale of surplus government property is exempt from CEQA review pursuant to CEQA Guidelines §15312 (surplus government property sales).

Respectfully Submitted,

Mike Isom, Development Services Manager

Kevin Payne, Development Services Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-72

Purchase and Sale Agreement

Fragment Property Exhibit

RESOLUTION NO. 16-72

DECLARING A PORTION OF PROPERTY AT 3701 OLD AUBURN ROAD TO BE SURPLUS, APPROVING A PURCHASE AND SALE AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND TL CREEKSIDE, LP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, during final subdivision, it was discovered that a 271 square-foot area that should have been included in the sale was not included in the grant deed legal description, and was therefore inadvertently omitted from the land transaction; and

WHEREAS, the fragment property is unusable by anyone except the adjoining private property owner; and

WHEREAS, staff therefore recommends that the property be declared as surplus and sold to TL Creekside pursuant to the surplus property ordinance (RMC 4.12.110(B)); and

WHEREAS, a purchase and sale agreement regarding the property located at 3701 Old Auburn Road, by and between the City of Roseville and TL Creekside, LP, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville finds and declares that the 271 square-foot portion of property located at 3701 Old Auburn Road is surplus; and

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Council of the City of Roseville that said agreement is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville; and

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

PURCHASE AND SALE AGREEMENT

THIS PURCHASE AND SALE AGREEMENT ("**Agreement**") dated for reference purposes only as of _____, 2016, is entered into by and between CITY OF ROSEVILLE, a municipal corporation ("**Seller**"), and TL CREEKSIDE, L.P., a California limited partnership ("**Buyer**"), with respect to the following facts:

RECITALS

A. Seller is the owner of that certain real property in the City of Roseville ("**City**"), County of Placer ("**County**"), State of California, comprising approximately two hundred seventy-one (271±) square feet, and as more particularly described in Exhibit A attached hereto and incorporated herein (the "**Real Property**").

B. Seller desires to sell and Buyer desires to purchase the Property (as defined below).

C. Seller is prepared to sell, transfer and convey the Property to Buyer for the purchase price and on the other terms and conditions hereinafter set forth.

D. The term "**Effective Date**" as used in this Agreement shall mean the above first-mentioned date.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, and intending to be legally bound hereby, the parties hereto agree as follows.

AGREEMENT

ARTICLE I

SALE AND PURCHASE

Seller hereby agrees to sell, transfer and convey to Buyer, and Buyer hereby agrees to purchase and accept from Seller for the purchase price and subject to the other terms and conditions set forth in this Agreement, the Real Property and "Intangible Property" (defined in Section 1.2) (collectively, the "**Property**"):

1.1 Real Property. All of Seller's interest in the land comprising the Real Property and any improvements thereon, and all rights, privileges, easements, rights of way, tenements, hereditaments, rights of way and appurtenances which belong to or appertain thereto including, without limitation, rights to all minerals, oil, gas, and other hydrocarbons substances on and under such land, as well as all development rights, air rights, water, and water rights appurtenant or regarding the land.

1.2 Intangible Property. Seller's interest in any and all contract rights and intangible property arising out of or in connection with the ownership or operation of the Real Property, including without limitation the right to use the current names of the Real Property, all licenses,

permits, approvals, development agreements, utility agreements, maps (specifically including any Tentative Map), architectural and engineering drawings and plans, surveys, all warranties given by third parties with respect to the Real Property, and all fees, deposits, credits, reimbursement agreements, etc. (collectively, the “**Intangible Property**”).

ARTICLE II

PURCHASE PRICE

The total purchase price (the “**Purchase Price**”) shall be One Thousand Six Hundred Twenty-Eight Dollars (\$1,628), payable in cash or same day funds at Closing (hereafter defined).

ARTICLE III

DEPOSITS INTO ESCROW

The Purchase Price shall be paid to Seller by Buyer as follows:

3.1 Deposit. Within three (3) days of the Effective Date, Buyer shall deliver to First American Title Company (“**Escrow Holder**”), at its office located at 3400 Douglas Boulevard, Suite 400, Roseville, California; Telephone No.: 916-677-2697; Facsimile No.: 800-890-0234; Attention: Barbara Clarke, by check or electronic funds transfer, a cash deposit in the amount of Two Hundred Dollars (\$200) (the “**Deposit**”) to be held in an escrow (the “**Escrow**”) and delivered in accordance with this Agreement. Escrow Holder shall place the Deposit into an interest bearing account with interest accruing for the benefit of Buyer.

3.2 Refundability; Applicability to Price. The Deposit held by Escrow Holder shall be refunded to Buyer, if Buyer elects to either terminate this Agreement at any time prior to the end of the Feasibility Period or if Buyer fails to provide the Feasibility Approval Notice pursuant to Section 5.3 below, in which case, Escrow Holder shall return the Deposit to Buyer, and neither Buyer nor Seller shall have any further rights or obligations under this Agreement, except as otherwise expressly provided herein. If Buyer approves its feasibility studies and provides the Feasibility Approval Notice pursuant to Section 5.3 below, the Deposit shall, except as otherwise provided in this Agreement, be non-refundable consideration for Seller keeping the Property off the market, and shall be applicable to the Purchase Price. The Deposit shall remain in Escrow until the termination of this Agreement or the Closing, in which event the Deposit shall be distributed in accordance with the terms of this Agreement or otherwise applied to the Purchase Price.

3.3 Opening Escrow; Escrow Instructions. For purposes of this Agreement, the Escrow shall be deemed opened on the date Escrow Holder shall have received an executed counterpart of this Agreement from both Buyer and Seller. Escrow Holder shall notify Buyer and Seller, in writing, of the date Escrow is opened. This Agreement constitutes escrow instructions to Escrow Holder. Any supplemental escrow instructions given to Escrow Holder shall be consistent with the terms of this Agreement and shall provide that, as between the parties, the terms of this Agreement shall prevail if there is any inconsistency.

ARTICLE IV

INDEPENDENT CONSIDERATION

Notwithstanding anything to the contrary contained in this Agreement, a portion of the Deposit consisting of the amount of One Hundred Dollars (\$100) (the “**Independent Consideration**”) shall be non-refundable to Buyer as Independent Consideration for Seller keeping the Property off the market and the rights and options extended to Buyer under this Agreement, including, without limitation, the right and option to terminate the Agreement as provided in this Agreement. The One Hundred Dollars (\$100) Independent Consideration shall be released to Seller immediately upon termination of this Agreement. In all instances under this Agreement in which Buyer elects to terminate or is deemed to have terminated the Agreement and the Deposit is to be returned to Buyer, Seller shall retain the Independent Consideration and only the residual balance of the Deposit shall be returned.

ARTICLE V

CONDITIONS TO BUYER’S OBLIGATIONS

The Closing and Buyer’s obligations under this Agreement to purchase the Property shall be subject to the satisfaction, prior to the times prescribed herein, of the following conditions, with Buyer to retain the right to waive, in writing, in whole or in part, any of the following conditions at or prior to the time prescribed herein for approval or disapproval by Buyer.

5.1 Title of Property. Seller shall cause fee title to be conveyed to Buyer by a standard California grant deed in the form customarily used by Escrow Holder (the “**Grant Deed**”). Escrow Holder must be willing to issue its Owner’s Standard Policy of Title Insurance (or an ALTA Extended Owner’s Policy of Title Insurance, if Buyer elects to obtain such coverage) insuring title in Buyer in the amount of the Purchase Price. The policy shall list only: (a) current taxes and assessments, if any; (b) the exceptions approved by Buyer as set forth in Section 5.2 of this Agreement; (c) all other title matters affecting the Property created by or with the consent of Buyer; and (d) the printed exceptions common to such CLTA policies (collectively, the “**Permitted Exceptions**”). Buyer shall pay for any endorsement it may reasonably request, but the issuance of any requested endorsements shall not be a condition to the Closing.

5.2 Title Review. Buyer shall have the right to approve any and all matters of and exceptions to title of the Property, including the legal description, as disclosed by the following documents and instruments (collectively, “**Title Documents**”): (A) a Preliminary Report (“**Preliminary Report**”) issued by Escrow Holder with respect to the Property and all matters referenced therein; and (B) legible copies of all documents, whether recorded or unrecorded, referred to in such Preliminary Report. Seller shall cause Escrow Holder to deliver the Title Documents to Buyer and Seller within ten (10) calendar days following the Effective Date. Buyer shall have ten (10) calendar days after its receipt of the Title Documents in which to give Seller and Escrow Holder written notice (“**Buyer’s Title Notice**”) of Buyer’s approval or disapproval of the legal description and every item or exception disclosed by the Title Documents. The failure of Buyer to give Buyer’s Title Notice to Seller within the specified time period shall be deemed Buyer’s disapproval of title to the Property. In the event that Buyer’s

Title Notice disapproves or is deemed to disapprove of any matter of title shown in the Title Documents, Seller shall, within five (5) calendar days after Buyer's Title Notice is received by Seller, give Buyer written notice ("**Seller's Title Notice**") of those disapproved title matters, if any, which Seller is unwilling or unable to have eliminated from title to the Property by Closing. The failure of Seller to give Seller's Title Notice to Buyer within the specified time period shall be deemed Seller's refusal or inability to eliminate any of the disapproved title matters, provided Seller will be deemed to have agreed to remove any mortgages, deeds of trust or other such readily ascertainable monetary liens against the Property resulting from the voluntary acts or omissions of Seller (excluding liens for current taxes and assessments). In the event that Seller is unable or unwilling to remove all of the title matters objected to by Buyer in Buyer's Title Notice, Buyer shall have five (5) calendar days from receipt of Seller's Title Notice to notify Seller in writing that either (1) Buyer is willing to purchase the Property subject to such disapproved exceptions, or (2) Buyer elects to cancel this transaction. Failure of Buyer to take either one of the actions described in Subsection (1) or (2) above shall be deemed to be Buyer's election to take the action described in Subsection (2) above. In the event this Agreement is canceled pursuant to this Section 5.2, except as otherwise provided in this Agreement, the parties shall have no further obligations under this Agreement and the Deposit and all other monies delivered to Escrow Holder by Buyer, exclusive of the Independent Consideration which shall be retained by Seller, shall immediately be returned to Buyer.

5.3 Feasibility Period.

A. Approval of Feasibility Conditions. From the Effective Date and until 5:00 p.m. on the date which is thirty (30) days thereafter ("**Feasibility Period**"), Buyer, its authorized agents, employees, consultants and representatives ("**Buyer's Agents**"), shall have the right to review the Documents and Materials (as defined below) and to enter the Property and to conduct and carry out any and all inspections, tests and studies as Buyer deems appropriate in connection with Buyer's proposed acquisition and development of the Property. Buyer shall be allowed until 5:00 p.m. on the last day of the Feasibility Period to deliver to Seller written notice of Buyer's approval, in its sole and absolute discretion, of the Property (the "**Feasibility Approval Notice**"), based upon its approval of: (i) the physical condition, the feasibility of Buyer's proposed acquisition of the Property; or (ii) any other reason or condition concerning the Property (collectively, the "**Feasibility Conditions**"). Buyer's failure to deliver the Feasibility Approval Notice prior to the expiration of the Feasibility Period shall conclusively be considered Buyer's disapproval of all Feasibility Conditions. If prior to the expiration of the Feasibility Period, Buyer fails to deliver to Seller the Feasibility Approval Notice, this Agreement shall terminate, Escrow Holder shall return the Deposit to Buyer, Seller shall retain the Independent Consideration, and neither Buyer nor Seller shall have any further rights or obligations hereunder, except as otherwise expressly provided herein.

B. Right of Entry. During the Feasibility Period, Buyer and Buyer's Agents shall be granted a right of entry on the Property to perform such soil, engineering and geological tests and other physical inspections and to make such other reports as Buyer shall deem appropriate for any other purpose related to Buyer's proposed development of the Property. Buyer's and Buyer's Agents' right of entry upon the Property shall be subject to, and Buyer agrees to perform, each of the following conditions:

1. Buyer shall pay all costs, expenses, liabilities and charges incurred by Buyer and Buyer's Agents or related to said entry.

2. Buyer, at Buyer's sole cost, shall repair all damage or injury caused by Buyer or Buyer's Agents in connection with any such inspection or entry and shall return the Property to the condition existing prior to such entry.

3. Any entry upon the Property shall be upon a minimum of twenty-four (24) hours' written notice to Seller, and Seller shall have the right to accompany Buyer and Buyer's Agents on any such entry upon the Property.

4. Buyer shall keep the Property free and clear of all liens arising out of Buyer's and Buyer's Agents' activities conducted upon the Property.

5. Buyer shall indemnify, defend and hold Seller and the Property free and harmless of and from all costs, expenses, damages, claims, liabilities, attorneys' fees and costs or charges arising out of, or in any way connected with, the entry upon the Property by Buyer and Buyer's Agents. Notwithstanding the foregoing, however, Buyer shall not be obligated to defend or indemnify Seller, nor to repair any damage attributable in whole or part to any one or more of the following: (i) the mere discovery of Hazardous Materials (as defined below) on the Property; (ii) a pre-existing latent defect in the Property; (iii) the spread of Hazardous Materials already present on the Property despite the use of reasonable care; or (iv) the misconduct or negligence of Seller or its agents.

6. Buyer shall provide to Seller a certificate of liability insurance, with a combined single limit of liability not less than One Million Dollars (\$1,000,000), with an endorsement attached to such certificate reasonably acceptable to Seller. Seller shall be named as an additional insured upon such insurance. Buyer shall provide the certificate of such insurance with the attached endorsement prior to, and as a condition of, any such entry.

7. Prior to performing any environmental tests or studies on the Property beyond the scope of work generally performed in a Phase I study, Buyer shall notify Seller in writing of the scope of work intended to be performed and shall provide Seller an opportunity to confer, either directly or through Seller's consultants, with Buyer's environmental consultants in order to determine whether to permit any sampling or testing of surface or subsurface soils, surface water or ground water (and with respect thereto Seller shall have complete and absolute discretion to grant or withhold its consent) or to refine the scope of the work to be performed. All information derived from Buyer's tests and test results shall, to the extent permissible under existing law, remain confidential and not to be disclosed by Buyer to any party other than as is necessary in connection with the consummation of the transactions contemplated hereby or as is necessary to comply with any obligations Buyer may have under applicable law, or as is necessary to enforce the rights Buyer may have against Seller hereunder. Seller shall be entitled to receive copies of all tests and test results, together with the right as a party of interest, to be able to access the consultant's file information and work product in the event of future need subsequent to the Closing. Buyer acknowledges that Seller is subject to the California Public Records Act and Seller may be required to disclose to third parties upon request any and all documents received by Seller, based upon the City Attorney's sole

determination. Buyer shall obtain all consultants' consents to the foregoing as a part of any retention agreement. Such Seller's rights shall survive the Closing and recording of the Grant Deed from Seller to Buyer.

5.4 Review of Documents and Materials. Seller and Buyer acknowledge and agree that Seller, prior to the Effective Date hereof, delivered to Buyer for Buyer's review all documents and materials (collectively, "**Documents and Materials**") affecting the Property which are within Seller's possession or control affecting the Property. All Documents and Materials are provided for the convenience of Buyer, and Seller makes no representation or warranty as to the accuracy or completeness of any of such Documents and Materials, except as to any Documents and Materials prepared by Seller.

5.5 Performance. Seller shall have performed, observed and complied with all material covenants, agreements and conditions required by this Agreement to be performed, observed and complied with on its part prior to or as of the Closing hereunder, and the representations and warranties of Seller contained in this Agreement shall be true on and as of the Closing with the same force and effect as if such representations and warranties were made on and as of the Closing.

5.6 Documents and Deliveries. All instruments and documents required on Seller's part to effectuate the Closing and the transactions contemplated hereby shall be delivered to Buyer or the Escrow Holder, as required hereby, and shall be in form and substance consistent with the requirements herein.

5.7 Title Policy. The Escrow Holder shall have delivered to Buyer a CLTA Owner's policy of title insurance (or an ALTA extended coverage policy, if Buyer so elects and provided Buyer pays the cost of the ALTA Survey, if required by Escrow Holder, and such election does not delay the Closing) at the Closing, insuring Buyer's fee simple title to the Property in the amount of the Purchase Price, subject only to the Permitted Exceptions.

5.8 Failure of Conditions. If any condition set forth in this Article V is not satisfied, or waived in writing by Buyer, at or prior to the times prescribed therein, for a reason other than the default of Buyer, then Buyer shall have the option, exercisable by written notice to Seller on or prior to the date of Closing, to terminate this Agreement, in which event all rights, obligations and liabilities of Seller and Buyer under and pursuant to this Agreement shall terminate, and Escrow Holder shall without further notice to or from any party, and without liability therefor, cancel and terminate this Escrow, return the Deposit to Buyer and return any other funds or documents to the party depositing same, except for the Independent Consideration which shall be retained by the Seller.

5.9 Copies of Documents and Materials. In the event of termination of this Agreement, as a condition to the return of the Deposit to Buyer, Buyer shall promptly return to Seller all Documents and Materials delivered by Seller to Buyer.

ARTICLE VI

CONDITIONS OF SELLER'S OBLIGATIONS

The Closing and Seller's obligations under this Agreement to sell the Property shall be subject to the satisfaction, prior to the times prescribed herein, the following conditions, with Seller to retain the right to waive, in writing, in whole or in part, any of the following conditions at or prior to the times prescribed herein for approval or disapproval by Seller.

6.1 Performance. Buyer shall have performed, observed and complied with all material covenants, agreements and conditions required by this Agreement to be performed, observed and complied with on its part prior to or as of the Closing hereunder, and the representations and warranties of Buyer contained in this Agreement shall be true on and as of the Closing with the same force and effect as if such representations and warranties were made on and as of the Closing.

6.2 Documents and Deliveries. All instruments and documents required on Buyer's part to effectuate the Closing and the transactions contemplated hereby shall be delivered to Seller or the Escrow Holder, as required hereby, shall be in form and substance consistent with the requirements herein, and all funds to be deposited into the Escrow pursuant hereto shall have been timely deposited.

6.3 Failure of Conditions. If any conditions precedent to Seller's obligations in this Article VI are not timely satisfied (or waived in writing by Seller), for a reason other than the default by Seller, then Seller shall have the option, exercisable by written notice to Buyer at or prior to the Closing, of declining to proceed with the Closing. In such event, except as expressly set forth herein, all obligations, liabilities and rights of the parties under this Agreement shall terminate and all Documents and Materials delivered to Buyer pursuant hereto shall be returned to Seller.

ARTICLE VII

CLOSING; DELIVERIES

7.1 The Closing. For purposes of this Agreement, the "**Closing**" shall be defined as the date that the Grant Deed is recorded in the Official Records of the County. The Closing shall take place within ten (10) business days following the expiration of the later of the date of waiver of the Feasibility Conditions or date of Feasibility Approval Notice.

7.2 Application of Deposit. The Deposit shall be applied to the Purchase Price.

7.3 Seller's Documents. At or prior to the Closing, Seller shall deposit the following into the Escrow for recordation and/or delivery to Buyer at the Closing:

A. The Grant Deed for the Property duly executed and acknowledged by Seller and in proper form for recording.

B. A certification and affidavit as required by the Foreign Investors Real Property Tax Act, as amended, and California Revenue and Taxation Code Section 18805(d) and 26131.

C. Two (2) duly-executed original counterparts of the Bill of Sale and Assignment (the “**Bill of Sale**”) in the form of Exhibit B, attached hereto and incorporated herein by this reference, transferring to Buyer all of Seller’s interest in the Intangible Property.

D. All other instruments and documents reasonably required to effectuate this Agreement and the transactions contemplated thereby.

7.4 Buyer’s Documents. At or prior to the Closing, Buyer shall deposit the following into the Escrow for recordation and/or delivery to Seller at the Closing:

A. A wire transfer of funds (i) in the amount of the Purchase Price less the Deposit into Escrow; plus (ii) the amount of any and all Closing costs and expenses to be paid by Buyer hereunder.

B. Two (2) duly executed originals of the Bill of Sale.

C. All other instruments and documents reasonably required to effectuate this Agreement and the transactions contemplated thereby.

7.5 Tax-Deferred Exchange. Each party (the “**Exchanging Party**”) shall have the right to arrange for an IRS Section 1031 exchange of the Property (the “**Exchange**”). The Exchanging Party shall have the right to arrange for an Exchange of the Property, provided that:

A. The non-exchanging Party shall not be responsible for any cost or expense, nor shall it incur any potential liability associated with the Exchange:

B. The Exchange shall not delay the Closing; and

C. The non-exchanging Party shall not be required to take title to any other real property in connection with the Exchange.

ARTICLE VIII

PRORATIONS; EXPENSES

8.1 Prorations. All real estate and special taxes, charges and assessments affecting the Property and all charges for utilities shall be prorated on a per diem basis as of 11:59 p.m. on the day prior to the date of such Closing. If any real estate or special taxes, charges or assessments have not been fully assessed or computed as of the date of such Closing for the current fiscal year of the taxing authority, then the same shall be adjusted at such Closing based upon the most recently issued bills therefore and cost bills relating thereto, and shall be re-adjusted outside of the Escrow when final bills are issued.

8.2 Expenses. Seller and Buyer shall allocate and pay the Escrow, title and Closing costs as follows: (a) Buyer shall pay the cost for title insurance equal to the premium for a CLTA

Policy in the amount of the Purchase Price; (b) Buyer shall pay the cost for ALTA coverage, if requested by Buyer, and any binder or endorsements requested by Buyer; (c) Buyer shall pay any documentary transfer tax required by law; (d) Buyer shall pay all Escrow Holder's escrow fees and all other customary escrow fees, costs and recording costs; (e) Buyer and Seller shall each pay their own legal and professional fees and fees of other consultants incurred by Buyer and Seller, respectively; and (f) Buyer shall pay all costs associated with Buyer's financing, if any.

ARTICLE IX

REPRESENTATIONS, WARRANTIES AND COVENANTS

9.1 Seller's Representations. In addition to the representations, warranties and covenants of Seller contained in other sections of this Agreement, Seller hereby represents, warrants and covenants to Buyer as follows, all of which shall survive the Closing, excluding, however, any investigation or knowledge of Buyer that may be discovered prior to the expiration of the Feasibility Period and any other matters that may be disclosed in writing by Seller to Buyer prior to the Closing:

A. Seller's Authority. Seller has the legal power, right and authority to enter into this Agreement and the instruments referenced herein, and to consummate the transaction contemplated hereby.

B. Signatory. The individuals executing this Agreement and the instruments referenced herein on behalf of Seller have the legal power, right, and actual authority to bind Seller to the terms and conditions hereof and thereof.

C. Enforceability. This Agreement and all documents required hereby to be executed by Seller are and shall be valid, legally binding obligations of and enforceable against Seller in accordance with their terms.

D. Conflicting Documents. Neither the execution and delivery of this Agreement and the documents and instruments referenced herein, nor the occurrence of the obligations set forth herein, nor the consummation of the transaction contemplated herein, nor compliance with the terms of this Agreement and the documents and instruments referenced herein conflict with or result in the material breach of any terms, conditions or provisions of, or constitute a default under, any bond, note, or other evidence of Indebtedness or any contract, indenture, mortgage, deed of trust, loan, partnership agreement, lease or other agreement or instrument to which Seller is a party or affecting the Property.

E. Proceedings. To Seller's knowledge, there are no actions, suits, proceedings or governmental investigations pending or threatened against or affecting the Property, in law or in equity.

F. Condemnation. To Seller's knowledge, there are no pending or threatened proceedings in eminent domain or otherwise which would affect the Property or any portion thereof.

G. Hazardous Materials. To Seller's knowledge, there are no Hazardous Materials (as defined below) in existence on or below the surface of the Property, including, without limitation, contamination of the soil, subsoil or ground water, which constitutes a violation of any law, rule or regulation of any governmental entity having jurisdiction thereof. For purposes of this Agreement, the term "**Hazardous Materials**" means any flammable materials, explosive, hazardous or toxic substances, or related materials defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as now or hereafter amended (42 U.S.C. Sections 9601, et seq.), the Hazardous Materials Transportation Act, as now or hereafter amended (49 U.S.C. Sections 1801, et seq.), the Resource Conservation and Recovery Act, as now or hereafter amended (42 U.S.C. Sections 9601, et seq.) and in the regulations promulgated thereto, or any other federal, state or local governmental law, ordinance, rule or regulation.

H. No Prior Transfers. Seller has not previously sold, transferred or conveyed the Property and Seller has not entered into any executory contracts for the sale of the Property (other than this Agreement), nor do there exist any rights of first refusal or options to purchase the Property.

For the purpose of this Agreement, usage of "**Seller's knowledge**," or words to such effect, shall mean the actual current knowledge of Mike Isom, Development Services Manager, excluding constructive knowledge or duty of inquiry or investigation, existing as of the Effective Date.

9.2 Buyer's Representation. In addition to the representations, warranties and covenants of Buyer contained in other sections of this Agreement, Buyer hereby represents, warrants and covenants to Seller as follows, all of which shall survive the Closing and any investigation or knowledge of Seller except as disclosed by Buyer to Seller and waived in writing by Seller:

A. Buyer's Authority. Buyer has the legal power, right and authority to enter into this Agreement and the instruments referenced herein, and to consummate the transaction contemplated hereby.

B. Signatory. The individuals executing this Agreement and the instruments referenced herein on behalf of Buyer have the legal power, right, and actual authority to bind Buyer to the terms and conditions hereof and thereof.

C. Enforceability. This Agreement and all documents required hereby to be executed by Buyer are and shall be valid, legally binding obligations of and enforceable against Buyer in accordance with their terms.

D. Conflicting Documents. Neither the execution and delivery of this Agreement and the documents and instruments referenced herein, nor the occurrence of the obligations set forth herein, nor the consummation of the transaction contemplated herein, nor compliance with the terms of this Agreement and the documents and instruments referenced herein conflict with or result in the materials breach of any terms, conditions or provisions of, or constitute a default under, any bond, note, or other evidence of indebtedness or any contract,

indenture, mortgage, deed of trust, loan, partnership agreement, lease or other agreement or instrument to which Buyer is a party or affecting the Property.

9.3 Representations Generally. Each of the representations and warranties made by Seller and Buyer in this Agreement, or in any exhibit or on any document or instrument delivered pursuant hereto, shall be true and correct in all material respects on the date hereof, and shall be deemed to be made again as of the Closing, and shall then be true and correct in all material respects. The truth and accuracy of each of Seller's representations and warranties, and the performance of all covenants of Seller contained in this Agreement, are conditions precedent to the release of the Deposit to Seller and to the Closing.

The representing party shall notify the other party immediately of any facts or circumstances which the representing party becomes aware of after the Effective Date that are contrary to the foregoing representations and warranties contained in this Article IX. The other party, within five (5) days following receipt of such notice, shall have the right to either (i) terminate this Agreement, in which case the Deposit shall be refunded to Buyer and neither party shall have any further rights or obligations hereunder, or (ii) proceed with the transaction described herein, waiving such inconsistent representation(s) and warranty(ies) and any damages arising therefrom.

ARTICLE X

REMEDIES FOR BUYER'S DEFAULT

IN THE EVENT BUYER BREACHES OR FAILS TO PERFORM ITS OBLIGATION TO PURCHASE THE PROPERTY UNDER THIS AGREEMENT THEN SELLER SHALL, AS ITS SOLE AND EXCLUSIVE REMEDY THEREFOR, BE ENTITLED TO RECEIVE THE AMOUNT OF THE DEPOSIT DELIVERED BY BUYER TO ESCROW HOLDER AT THE TIME OF BUYER'S BREACH OF DEFAULT AS LIQUIDATED DAMAGES (AND NOT AS A PENALTY) IN LIEU OF, AND AS FULL COMPENSATION FOR, ALL OTHER RIGHTS OR CLAIMS OF SELLER AGAINST BUYER BY REASON OF SUCH DEFAULT. DELIVERY TO AND RETENTION OF THE DEPOSIT BY SELLER SHALL BE SELLER'S SOLE AND EXCLUSIVE REMEDY AGAINST BUYER IN THE EVENT OF A DEFAULT OR BREACH BY BUYER, AND SELLER WAIVES ANY AND ALL RIGHT TO SEEK OTHER RIGHTS OR REMEDIES AGAINST BUYER, INCLUDING WITHOUT LIMITATION, SPECIFIC PERFORMANCE. THE PAYMENT AND RETENTION OF SUCH AMOUNT AS LIQUIDATED DAMAGES IS NOT INTENDED AS A FORFEITURE OR PENALTY WITHIN THE MEANING OF CALIFORNIA CIVIL CODE SECTIONS 3275 OR 3369, BUT IS INTENDED TO CONSTITUTE LIQUIDATED DAMAGES TO SELLER PURSUANT TO CALIFORNIA CIVIL CODE SECTIONS 1671, 1676 AND 1677. SELLER HEREBY WAIVES THE PROVISIONS OF CALIFORNIA CIVIL CODE SECTION 3389. UPON SUCH RETENTION BY SELLER OF THE DEPOSIT DUE TO BUYER'S BREACH OR DEFAULT, THIS AGREEMENT SHALL TERMINATE AND THE PARTIES SHALL BE RELIEVED OF ALL FURTHER OBLIGATIONS AND LIABILITIES HEREUNDER, EXCEPT AS EXPRESSLY SET FORTH HEREIN. BY INITIALING THIS AGREEMENT AT THE END OF THIS SECTION, BUYER AND SELLER ACKNOWLEDGE THAT THE DAMAGES TO SELLER RESULTING FROM BUYER'S BREACH WOULD BE

DIFFICULT, IF NOT IMPOSSIBLE, TO ASCERTAIN WITH ANY ACCURACY, AND THAT THE LIQUIDATED DAMAGE AMOUNT SET FORTH IN THIS SECTION REPRESENTS BOTH PARTIES' EFFORTS TO APPROXIMATE SUCH POTENTIAL DAMAGES. NOTWITHSTANDING THE FOREGOING, THE INDEMNITY PROVISIONS CONTAINED IN SECTIONS 5.3.B AND ARTICLE XII AND THE ATTORNEYS' FEES PROVISIONS CONTAINED IN SECTION 17.11 SHALL NOT BE SUBJECT TO THE LIQUIDATED DAMAGES PROVISIONS CONTAINED IN THIS ARTICLE X.



Buyer's Initials

Seller's Initials

ARTICLE XI

FURTHER ASSURANCES

Seller and Buyer each agrees to perform such other acts, and to execute, acknowledge and deliver, prior to, at or subsequent to the Closing, such other instruments, documents and other materials as the other may reasonably request and as shall be necessary in order to effect the consummation of the transactions contemplated hereby.

ARTICLE XII

BROKERS

Each party warrants and represents to the other that such party has no obligation to pay any finder's fees or commissions.

ARTICLE XIII

POSSESSION

Possession of the Property shall be surrendered to Buyer at the Closing, subject only to the Permitted Exceptions.

ARTICLE XIV

NOTICES

All notices and other communications provided for herein shall be in writing and shall be sent to the address set forth below (or such other address as a party may hereafter designate for itself by notice to the other parties as required hereby) of the party for whom such notice or communication is intended:

If to Seller: City of Roseville
311 Vernon Street
Roseville, CA 95678
Attn: Mike Isom, Development Services Manager
Telephone: 916-774-5527
Email: misom@roseville.ca.us

If to Buyer: TL Creekside L.P.
3500 Douglas Blvd., Suite 270
Roseville, CA 95661
Attn: Richard Balestreri
Telephone: 916-787-3420
Email: rbalestreri@timlewis.com

Any such notice or communication shall be sufficient if sent by registered or certified mail, return receipt requested postage prepaid; by hand delivery; by overnight courier service; or by facsimile transmission. Any notice given by facsimile transmission shall be deemed given on the day sent, provided it is sent on a business day during normal business hours; otherwise, it will be deemed sent on the next business day. Any notice given by registered or certified mail, return receipt requested, shall be deemed to have been given on the date receipt was acknowledged to the postal authorities. Either party may, by written notice to the other in the manner aforesaid, change the address to which notices addressed to it shall thereafter be mailed.

ARTICLE XV

DAMAGE OR CONDEMNATION PRIOR TO CLOSING

Seller shall promptly notify Buyer of any casualty to the Property or any condemnation proceeding commenced prior to the Close of Escrow. If any such damage or proceeding relates to or may result in the loss of any material portion of the Property, Seller or Buyer may, at their option, elect either to: (i) terminate this Agreement, in which event all funds deposited into Escrow by Buyer shall be returned to Buyer (exclusive of the Independent Consideration which shall be retained by Seller) and neither party shall have any further rights or obligations hereunder except as otherwise expressly provided herein, or (ii) continue the Agreement in effect without any adjustment of the Purchase Price, in which event upon the Close of Escrow, Buyer shall be entitled to any compensation, awards, or other payments or relief resulting from such casualty or condemnation proceeding.

ARTICLE XVI

ESCROW HOLDER

Escrow Holder shall hold the Deposit and otherwise handle the Escrow contemplated by this Agreement, in accordance with the terms and provisions of escrow instructions to be given to Escrow Holder by the parties that are consistent with this Agreement.

ARTICLE XVII
MISCELLANEOUS

17.1 Assignability. Buyer may assign or transfer all or any portion of its rights or obligations under this Agreement to any other individual, entity or other person owned or controlled by Buyer or Tim Lewis without the prior written consent thereto by Seller, provided that Buyer shall not be released from any of its obligations hereunder. Buyer may also assign this Agreement to any other person with Seller's written consent. Buyer shall deliver prior written notice to Seller of any such proposed assignment and shall provide reasonable documentation prior to such assignment becoming effective.

17.2 Governing Law; Parties in Interest. This Agreement shall be governed by the law of the State of California and shall bind and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, successors, assigns and personal representatives.

17.3 Recording. Neither this Agreement nor any notice or memorandum hereof shall be recorded in any public record. A violation of this prohibition shall constitute a material breach of this Agreement.

17.4 Time of the Essence. Time is of the essence of this Agreement.

17.5 Headings. The headings preceding the text of the paragraphs and subparagraphs hereof are inserted solely for convenience of reference and shall not constitute a part of this Agreement, nor shall they affect its meaning, construction or effect.

17.6 Counterparts. This Agreement shall be executed in any number of counterparts and each counterpart shall be deemed to be an original document. Delivery of the executed Agreement may be accomplished by facsimile transmission, and if so, the facsimile copy shall be deemed an executed original counterpart of the Agreement. All executed counterparts together shall constitute one and the same document, and any signature pages, including facsimile copies thereof, may be assembled to form a single original document.

17.7 Counting of Days. If a party is required to complete the performance of an obligation under this Agreement by a date certain and such date is a Saturday, Sunday, or a State or Federal holiday (collectively, a "**Nonbusiness Day**"), then the date for the completion of such performance will be the next succeeding day that is not a Nonbusiness day.

17.8 Severability. If any provision of this Agreement or the application of any provision of this Agreement to a particular situation is held by a court of competent jurisdiction to be invalid, void, or unenforceable, such provision shall be disregarded and this Agreement shall continue in effect unless enforcement of this Agreement without the invalidated provision would be unreasonable or grossly inequitable under all the circumstances or would frustrate the purposes of this Agreement. If any provision of this Agreement is determined to be invalid or unenforceable and the effect thereof is to deprive a party hereof of an essential benefit of its bargain hereunder, then such party so deprived shall have the option to terminate this entire Agreement from and after such determination.

17.9 Exhibits. All exhibits which are referred to herein and which are attached hereto or bound separately and initialed by the parties are expressly made and constitute a part of this Agreement.

17.10 Entire Agreement; Amendments. This Agreement and the exhibits attached hereto set forth all of the promises, covenants, agreements, conditions and undertakings between the parties hereto with respect to the subject matter hereof, and supersede all prior and contemporaneous agreements and understandings, inducements or conditions, express or implied, oral or written, except as contained herein. This Agreement may not be changed orally but only by an agreement in writing, duly executed by or on behalf of the party or parties against whom enforcement of any waiver, change, modification, consent or discharge is sought.

17.11 Attorneys' Fees. If there is any legal action or proceeding between Seller and Buyer arising from or based upon this Agreement, the unsuccessful party to such action or proceeding shall pay to the prevailing party all costs and expenses, including reasonable attorneys' fees and disbursements incurred by the prevailing party in such action or proceeding and in any appeal in connection therewith, and such costs, expenses, attorneys' fees and disbursements shall be included in and as part of such judgment.

17.12 Confidentiality. Not applicable.

17.13 Natural Hazard Disclosure Statement. Not applicable.

17.14 Tolling. All timeframes or conditions in this Agreement shall be tolled during any period of litigation.

17.15 Survival. Notwithstanding termination of this Agreement, Section 3.2, Article IV, Section 5.3.B, Article X, Section 17.11 and Article XVIII shall survive termination of this Agreement and Closing.

ARTICLE XVIII

DISPUTE RESOLUTION

18.1 JUDICIAL REFERENCE. ANY CONTROVERSY, CLAIM, ACTION OR DISPUTE ARISING OUT OF OR RELATING TO THIS AGREEMENT SHALL BE HEARD BY A REFEREE PURSUANT TO THE PROVISIONS OF CALIFORNIA CODE OF CIVIL PROCEDURE SECTIONS 638 THROUGH 645.1, INCLUSIVE, ACCORDING TO THE FOLLOWING PROCEDURES:

A. THE PARTIES SHALL AGREE UPON A SINGLE REFEREE WHO SHALL THEN TRY ALL ISSUES, WHETHER OF FACT OR LAW, AND REPORT A FINDING AND JUDGMENT THEREON. IF THE PARTIES ARE UNABLE TO AGREE UPON A REFEREE WITHIN TEN (10) DAYS OF A WRITTEN REQUEST TO DO SO BY ANY PARTY, THEN ANY PARTY MAY THEREAFTER SEEK TO HAVE A REFEREE APPOINTED PURSUANT TO CALIFORNIA CODE OF CIVIL PROCEDURE SECTIONS 638 AND 640;

B. THE PARTIES AGREE THAT THE REFEREE SHALL HAVE THE POWER TO DECIDE ALL ISSUES OF FACT AND LAW AND REPORT HIS/HER DECISION THEREON, AND TO ISSUE ALL LEGAL AND EQUITABLE RELIEF APPROPRIATE UNDER THE CIRCUMSTANCES OF THE CONTROVERSY BEFORE HIM/HER; PROVIDED, HOWEVER, THAT TO THE EXTENT THE REFEREE IS UNABLE TO ISSUE AND/OR ENFORCE ANY SUCH LEGAL AND EQUITABLE RELIEF, EITHER PARTY MAY PETITION THE COURT TO ISSUE AND/OR ENFORCE SUCH RELIEF ON THE BASIS OF THE REFEREE'S DECISION;

C. THE CALIFORNIA EVIDENCE CODE RULES OF EVIDENCE AND PROCEDURE RELATING TO THE CONDUCT OF THE HEARING, EXAMINATION OF WITNESSES AND PRESENTATION OF EVIDENCE SHALL APPLY;

D. ANY PARTY DESIRING A STENOGRAPHIC RECORD OF THE HEARING MAY SECURE A COURT REPORTER TO ATTEND THE HEARING; PROVIDED, THE REQUESTING PARTY NOTIFIES THE OTHER PARTIES OF THE REQUEST AND PAYS FOR THE COSTS INCURRED BY THE COURT REPORTER;

E. THE REFEREE SHALL ISSUE A WRITTEN STATEMENT OF DECISION WHICH SHALL BE REPORTED TO THE COURT IN ACCORDANCE WITH CALIFORNIA CODE OF CIVIL PROCEDURE SECTION 643 AND MAILED PROMPTLY TO THE PARTIES;

F. JUDGMENT MAY BE ENTERED ON THE DECISION OF THE REFEREE IN ACCORDANCE WITH CALIFORNIA CODE OF CIVIL PROCEDURE SECTION 644, AND THE DECISION MAY BE EXCEPTED TO, CHALLENGED AND APPEALED ACCORDING TO LAW;

G. THE PARTIES SHALL PROMPTLY AND DILIGENTLY COOPERATE WITH ONE ANOTHER AND THE REFEREE, AND SHALL PERFORM SUCH ACTS AS MAY BE NECESSARY TO OBTAIN A PROMPT AND EXPEDITIOUS RESOLUTION OF THE DISPUTE OR CONTROVERSY IN ACCORDANCE WITH THE TERMS HEREOF; AND

H. THE COST OF SUCH PROCEEDING, INCLUDING BUT NOT LIMITED TO THE REFEREE'S FEES, SHALL INITIALLY BE BORNE EQUALLY BY THE PARTIES TO THE DISPUTE OR CONTROVERSY. HOWEVER, THE PREVAILING PARTY IN SUCH PROCEEDING SHALL BE ENTITLED, IN ADDITION TO ALL OTHER COSTS, TO RECOVER ITS CONTRIBUTION FOR THE COST OF THE REFEREE AND ITS REASONABLE ATTORNEYS' FEES AS ITEMS OF RECOVERABLE COSTS.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and Buyer has caused this Agreement to be executed.

SELLER:

CITY OF ROSEVILLE, a municipal corporation

By: _____
Rob Jensen
Its: City Manager

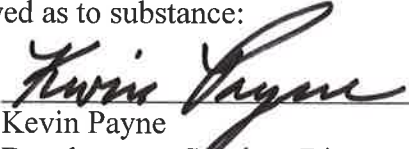
Attest:

By: _____
Sonia Orozco
Its: City Clerk

Approved as to form:

By: _____
Robert R. Schmitt
Its: City Attorney

Approved as to substance:

By:  _____
Kevin Payne
Its: Development Services Director

BUYER:

TL CREEKSIDE, L.P.,
a California limited partnership

By: TL MANAGEMENT, INC.,
a California corporation
Its: General Partner

By:  _____
JAY TIMOTHY LEWIS
Its: President

EXHIBIT A
LEGAL DESCRIPTION OF PROPERTY
(See attached)

EXHIBIT "A"
LEGAL DESCRIPTION
PAGE 1 OF 1

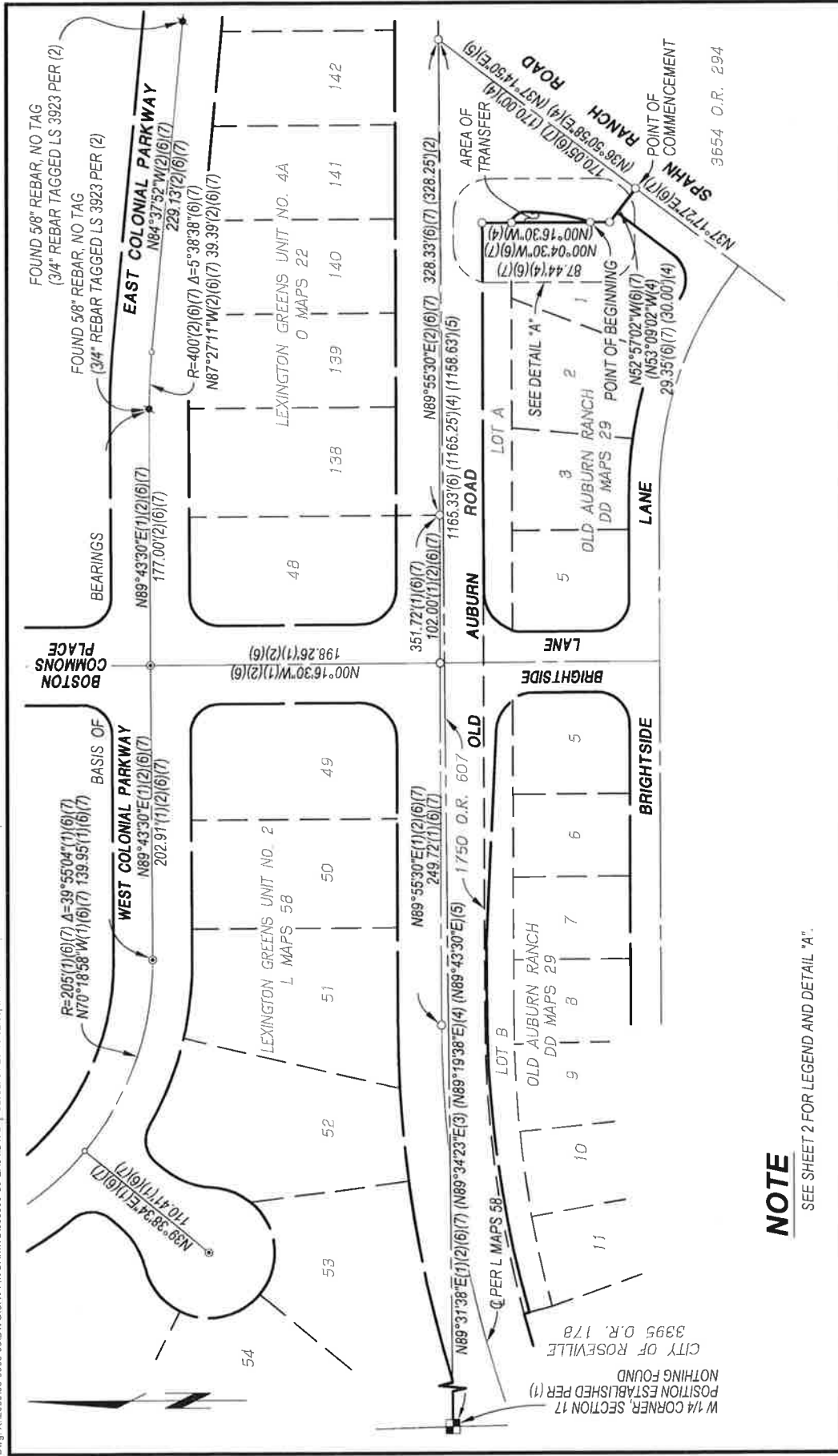
All that certain real property situate in the City of Roseville, County of Placer, State of California, described as follows:

A portion of the northwest quarter of the southwest quarter of Section 17, Township 10 North, Range 7 East, Mount Diablo Base and Meridian, being more particularly described as follows:

COMMENCING at the intersection of the centerline of Spahn Ranch Road with the southerly line of Old Auburn Road, said intersection being a point described in that certain Grant Deed to the City of Roseville recorded in Book 1750, Page 607, Official Records of Placer County, from which the west quarter corner of said Section 17, as shown on that certain map entitled, "Plat of Lexington Greens Unit No. 2" filed in Book L of Maps, Page 58, Placer County Records, bears North 37°17'27" East 170.05 feet and South 89°31'38" West 1165.33 feet; thence from the point of commencement and along the southerly line of said Grant Deed the following two (2) courses: (1) North 52°57'02" West 29.35 feet and (2) North 00°04'30" West 13.33 feet to the TRUE POINT OF BEGINNING; thence from the point of beginning, continuing along said southerly line, North 00°04'30" West 53.88 feet; thence leaving said southerly line, along the arc of a non-tangent curve to the right, concave southwesterly, having a radius of 9.50 feet, a radial bearing South 13°07'18" West, through a central angle of 76°31'43" and being subtended by a chord bearing South 38°36'51" East 11.77 feet; thence South 00°14'39" East 2.96 feet; thence along the arc of a non-tangent curve to the right, concave westerly, having a radius of 261.91 feet, a radial bearing North 87°04'45" West, through a central angle of 3°30'50" and being subtended by a chord bearing South 04°40'40" West 16.06 feet to a point of compound curvature; thence along the arc of a tangent curve to the right, concave westerly, having a radius of 113.86 feet, through a central angle of 10°13'07" and being subtended by a chord bearing South 11°32'38" West 20.28 feet to a point of compound curvature; thence along the arc of a tangent curve to the right, concave northwesterly, having a radius of 117.57 feet, through a central angle of 2°59'57" and being subtended by a chord bearing South 18°09'10" West 6.15 feet to the point of beginning.

Containing 271 square feet, more or less.

The basis of bearings for this description is the centerline of East Colonial Parkway as shown on that certain map entitled, "Plat of Lexington Greens Unit No. 4A" filed in Book O of Maps, Page 22, Placer County Records, the bearing of which being North 89°43'30" East, and was established by found monuments.





MORTON & PITALO, INC.
CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
LANDSCAPE ARCHITECTURE • TRAFFIC ENGINEERING
75 Iron Point Circle, Suite 120 • Folsom, CA 95630
phone: 916.984.7621 • fax: 916.984.9617 • survey fax: 916.563.6770
survey email: slaking@mpengr.com • web: www.mpengr.com

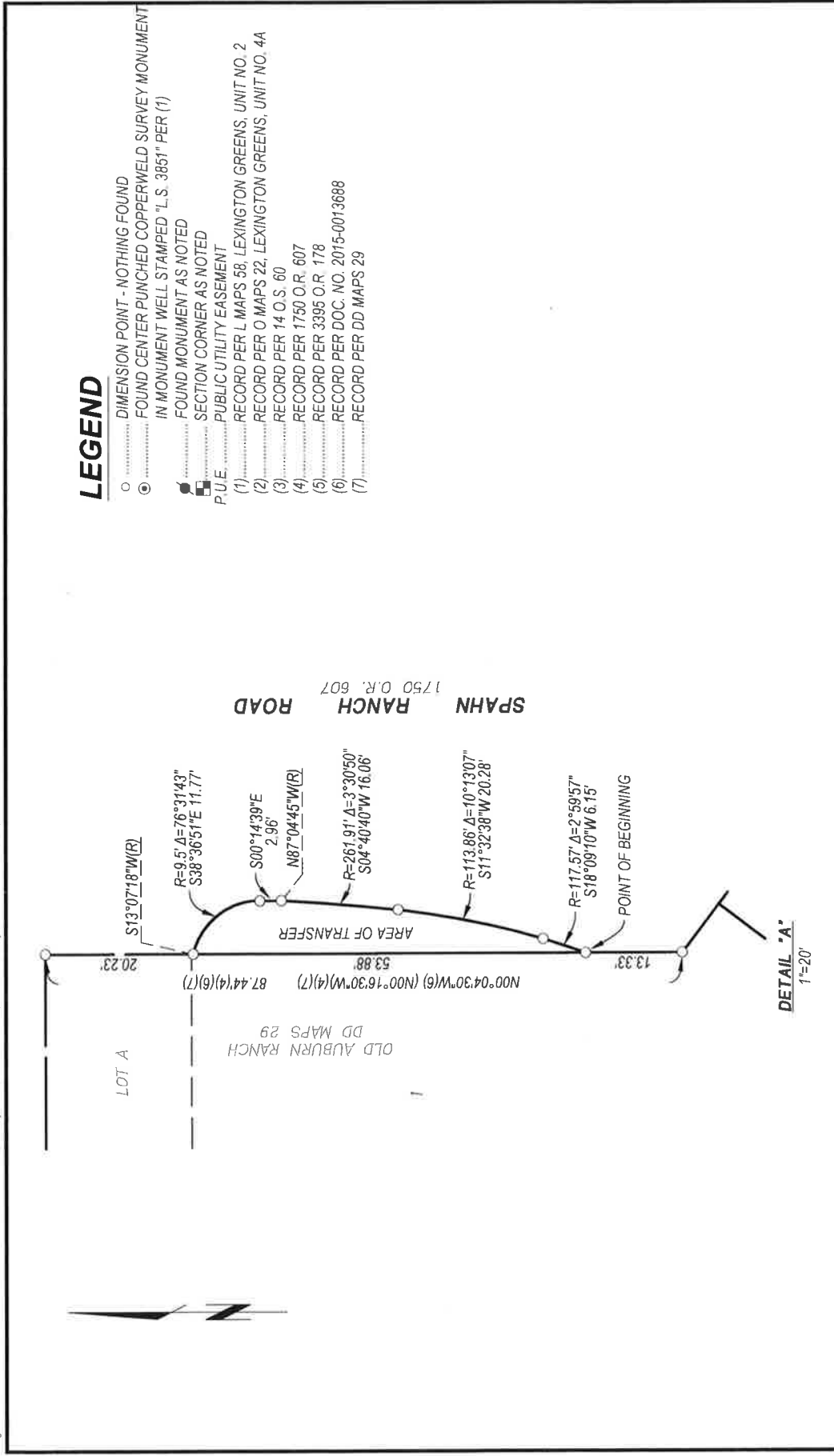
DRAWN: MJC
CHECKED: MJC
SCALE: 1"=100'

JOB NO: 060003.03
DATE: JANUARY 2016
SHEET: 1 of 2

EXHIBIT B

LEGAL DESCRIPTION
PORTION NW 1/4 SW 1/4 S17, T10N, R7E, MDB&M

CITY OF ROSEVILLE, STATE OF CALIFORNIA



MORTON & PITALO, INC.
 CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
 LANDSCAPE ARCHITECTURE • TRAFFIC ENGINEERING
 75 Iron Point Circle, Suite 120 • Folsom, CA 95630
 Phone: 916.984.7621 • Fax: 916.984.9617 • Survey fax: 916.563.6770
 Survey email: staking@mperg.com • web: www.mperg.com

EXHIBIT B

LEGAL DESCRIPTION

PORTION NW 1/4 SW 1/4 S17, T10N, R7E, MDB&M

CITY OF ROSEVILLE, STATE OF CALIFORNIA

DRAWN:	MJC	JOB NO:	060003.03
CHECKED:	MJC	DATE:	JANUARY 2016
SCALE:	1"=20'	SHEET:	2 of 2

EXHIBIT B
BILL OF SALE AND ASSIGNMENT

This Bill of Sale and Assignment ("Assignment") is entered as of _____, 2016, between CITY OF ROSEVILLE, a municipal corporation ("Assignor") and _____ ("Assignee").

RECITALS

A. Assignor and Assignee have entered into an Agreement of Purchase and Sale dated _____, 2016 ("Purchase Agreement"), in which Assignee has agreed to purchase certain real property in the City of Roseville, County of Placer, State of California, comprising approximately two hundred seventy-one (271±) square feet, and as more particularly described in Exhibit A of the Purchase Agreement (the "Property"). Capitalized terms not otherwise defined herein shall have the meanings set forth in the Purchase Agreement.

B. Pursuant to the Purchase Agreement, Assignor has agreed to assign to Assignee certain rights and interests relating to the Property.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor and Assignee agree as follows:

AGREEMENT

1. Assignment. Assignor hereby assigns, sells, transfers, sets over, and delivers to Assignee all of Assignor's estate, right, title, and interest in and to the following:

a. All architect's agreements, consulting agreements, engineering agreements, utility contracts, service agreements, and maintenance agreements relating specifically to the Property together with any warranties and guarantees made in favor of Assignor under any of such agreements;

b. All licenses, permits, approvals, entitlements, dedications, and other development rights approved or granted by any governmental authorities or otherwise in connection with the Property;

c. Any fees paid to any governmental agency or utility, including, without limitation, any utility deposit refunds;

d. The use of the tradename "Old Auburn Ranch" and any other tradenames, trademarks, and logos (and applications therefor and licenses with respect thereto) used by Assignor in the operation and identification of the Property together with all other intangible rights, titles, interests, privileges, and appurtenances of Assignor related to or used in connection with the development, operation, and ownership of the Property;

e. All licenses, consents, easements, rights of way, and approvals issued, approved, or granted by any private parties to make use of utilities and to insure vehicular and pedestrian ingress and egress to the Property;

f. All project files maintained by Assignor in connection with the development, operation, and ownership of the Property (not including any confidential matters relating solely to Assignor and its affiliates);

g. All documents, models, graphics, correspondence, records, and copies of minutes of any meetings of governmental authorities used in or related to approvals for entitlements for development of the Real Property;

h. All plans and specifications relating to any present or planned improvements on the Property, including, but not limited to, the plans and specifications described on Schedule 1 (Property Information Inventory) attached hereto and incorporated herein;

i. Any architectural drawings and engineering, soils, seismic, and geologic reports, studies and certificates pertaining to the Property which are owned by and within the possession or control of Assignor; and

j. Any other materials owned by Assignor exclusively for use in connection with the development of the Property or the construction of improvements thereon.

Items transferred pursuant to subsections 1.a. -1.e. are collectively referred to herein as the "Licenses and Permits." Items transferred pursuant to subsections 1.f. -1.j. are collectively referred to herein as the "Records and Plans."

2. Assignor's Covenants. Assignor covenants that the Licenses and Permits and the Records and Plans are in full force. Assignor further covenants that there are no defaults under either the Licenses and Permits or the Records and Plans. Assignor also covenants that no acts or events have occurred that upon the giving of notice or the passage of time or both could become defaults under either the Records and Plans or the Licenses and Permits. Assignor represents that Assignor has paid all costs and expense attributable to the Licenses and Permits and the Records and Plans through the Close of Escrow.

3. Tangible Property. Assignor further sells, assigns, transfers, conveys and delivers to Assignee all of the tangible personal property ("Personal Property"), if applicable.

4. Successors. This Assignment shall be binding on and inure to the benefit of the parties to it, their heirs, executors, administrators, successors in interest, and assigns.

5. Severability. If any term or provision of this Assignment shall be held invalid or unenforceable, the remainder of this Assignment shall not be affected.

6. Waivers. No waiver or breach of any covenant or provision shall be deemed a waiver of any other covenant or provision, and no waiver shall be valid unless in writing and executed by the waiving party.

7. Constructions. Headings are solely for the parties' convenience, are not a part of this Assignment, and shall not be used to interpret this Assignment. The singular form shall include the plural and vice versa.

This Assignment shall not be construed as if it had been prepared by one of the parties, but rather as if both parties have prepared it. Unless otherwise indicated, all references to sections are to this Assignment.

8. Counterparts. This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which taken together shall constitute one and the same instrument.

9. Amendment. This Assignment may not be amended or altered except by a written instrument executed by Assignor and Assignee.

10. Further Assurances. Whenever requested to do so by the other party, each party shall execute, acknowledge, and deliver any further conveyances, assignments, confirmations, satisfactions, releases, powers of attorney, instruments of further assurance, approvals, consents, and any further instruments or documents that are necessary, expedient, or proper to complete any conveyances, transfers, sales, and assignments contemplated by this Assignment. In addition, each party shall do any other acts and execute, acknowledge, and deliver any requested documents in order to carry out the intent and purpose of this Assignment.

11. Third-Party Rights. Nothing in this Assignment, express or implied, is intended to confer upon any person, other than the parties and their respective successors and assigns, any rights or remedies.

12. Attorney Fees. In the event of any litigation between Assignor and Assignee arising out of the obligations of Assignor under this Assignment or concerning interpretation of any of its provisions, the losing party shall pay the prevailing party's costs and the expenses of the litigation, including reasonable attorney fees.

13. Governing Law. This Assignment shall be governed and construed in accordance with California law.

14. DISPUTE RESOLUTION. **DISPUTE ARISING OUT OF OR RELATING TO THIS AGREEMENT SHALL BE HEARD BY A REFEREE PURSUANT TO THE PROVISIONS OF CALIFORNIA CODE OF CIVIL PROCEDURE SECTIONS 638 THROUGH 645.1, INCLUSIVE, ACCORDING TO THE FOLLOWING PROCEDURES:**

a. **THE PARTIES SHALL AGREE UPON A SINGLE REFEREE WHO SHALL THEN TRY ALL ISSUES, WHETHER OF FACT OR LAW, AND REPORT A FINDING AND JUDGMENT THEREON. IF THE PARTIES ARE UNABLE TO AGREE UPON A REFEREE WITHIN TEN (10) DAYS OF A WRITTEN REQUEST TO DO SO BY ANY PARTY, THEN ANY PARTY MAY THEREAFTER SEEK TO HAVE A REFEREE APPOINTED PURSUANT TO CALIFORNIA CODE OF CIVIL PROCEDURE SECTIONS 638 AND 640;**

b. **THE PARTIES AGREE THAT THE REFEREE SHALL HAVE THE POWER TO DECIDE ALL ISSUES OF FACT AND LAW AND REPORT HIS/HER DECISION THEREON, AND TO ISSUE ALL LEGAL AND EQUITABLE RELIEF APPROPRIATE UNDER THE CIRCUMSTANCES OF THE CONTROVERSY BEFORE**

HIM/HER; PROVIDED, HOWEVER, THAT TO THE EXTENT THE REFEREE IS UNABLE TO ISSUE AND/OR ENFORCE ANY SUCH LEGAL AND EQUITABLE RELIEF, EITHER PARTY MAY PETITION THE COURT TO ISSUE AND/OR ENFORCE SUCH RELIEF ON THE BASIS OF THE REFEREE'S DECISION;

c. THE CALIFORNIA EVIDENCE CODE RULES OF EVIDENCE AND PROCEDURE RELATING TO THE CONDUCT OF THE HEARING, EXAMINATION OF WITNESSES AND PRESENTATION OF EVIDENCE SHALL APPLY;

d. ANY PARTY DESIRING A STENOGRAPHIC RECORD OF THE HEARING MAY SECURE A COURT REPORTER TO ATTEND THE HEARING; PROVIDED, THE REQUESTING PARTY NOTIFIES THE OTHER PARTIES OF THE REQUEST AND PAYS FOR THE COSTS INCURRED BY THE COURT REPORTER;

e. THE REFEREE SHALL ISSUE A WRITTEN STATEMENT OF DECISION WHICH SHALL BE REPORTED TO THE COURT IN ACCORDANCE WITH CALIFORNIA CODE OF CIVIL PROCEDURE SECTION 643 AND MAILED PROMPTLY TO THE PARTIES;

f. JUDGMENT MAY BE ENTERED ON THE DECISION OF THE REFEREE IN ACCORDANCE WITH CALIFORNIA CODE OF CIVIL PROCEDURE SECTION 644, AND THE DECISION MAY BE EXCEPTED TO, CHALLENGED AND APPEALED ACCORDING TO LAW;

g. THE PARTIES SHALL PROMPTLY AND DILIGENTLY COOPERATE WITH ONE ANOTHER AND THE REFEREE, AND SHALL PERFORM SUCH ACTS AS MAY BE NECESSARY TO OBTAIN A PROMPT AND EXPEDITIOUS RESOLUTION OF THE DISPUTE OR CONTROVERSY IN ACCORDANCE WITH THE TERMS HEREOF; AND

h. THE COST OF SUCH PROCEEDING, INCLUDING BUT NOT LIMITED TO THE REFEREE'S FEES, SHALL INITIALLY BE BORNE EQUALLY BY THE PARTIES TO THE DISPUTE OR CONTROVERSY. HOWEVER, THE PREVAILING PARTY IN SUCH PROCEEDING SHALL BE ENTITLED, IN ADDITION TO ALL OTHER COSTS, TO RECOVER ITS CONTRIBUTION FOR THE COST OF THE REFEREE AND ITS REASONABLE ATTORNEYS' FEES AS ITEMS OF RECOVERABLE COSTS.

The parties have executed this Assignment as of the date first written above.

ASSIGNOR:

CITY OF ROSEVILLE, a municipal corporation

By: _____
Rob Jensen
Its: City Manager

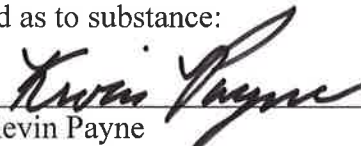
Attest:

By: _____
Sonia Orozco
Its: City Clerk

Approved as to form:

By: _____
Robert R. Schmitt
Its: City Attorney

Approved as to substance:

By:  _____
Kevin Payne
Its: Development Services Director

ASSIGNEE:

 _____

Schedule 1

PROPERTY INFORMATION INVENTORY

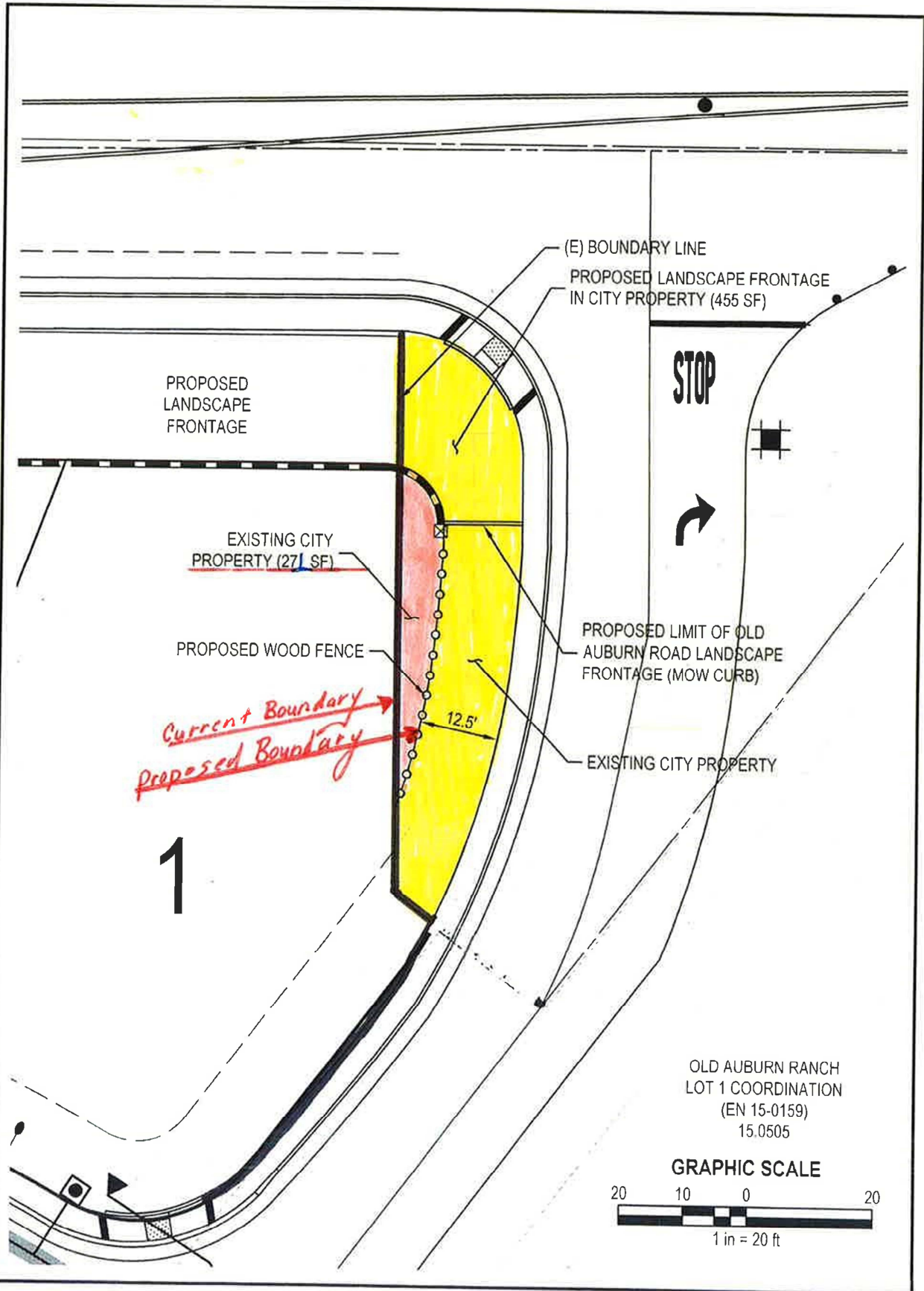
Old Auburn Ranch
32-Lot Tentative Map
SWC Old Auburn Road and Spahn Ranch Road
Property Information Index

September 18, 2014

1. Marketing Brochure
2. Assessor's Parcel Map and Ownership Information
3. CBRE, Inc. Sale/Lease Disclosures Form
4. FEMA Flood Map, Dated June 8, 1998
5. Aerial Photographs
6. Topographic Map
7. Preliminary Title Report with exceptions and color coded map, Prepared by Placer Title Company, Dated June 30, 2014
8. Affordable Housing Language, prepared by the City of Roseville, Dated September 24, 2009
9. Affordable Housing Conditions Explanation, Prepared by City of Roseville, Dated (Pending).
10. Tentative Map Conditions of Approval, Prepared by the City of Roseville, Dated September 25, 2009
11. General Plan Amendment, Rezone, Tentative Map & Tree Permit – Planning Staff Report, Prepared by the City of Roseville, Dated September 24, 2009
12. Initial Study & Environmental Checklist, Prepared by the City of Roseville, Dated September 8, 2009
13. Notice of Mitigated Negative Declaration, Prepared by the City of Roseville, Dated September 8, 2009
14. Old Auburn Ranch SFD Fee Calculator, Prepared by the City of Roseville, Updated June 12, 2014
15. Small Lot Residential (RS) Development Standards, Prepared by the City of Roseville, Dated September 29, 2009
16. Utility Information, Prepared by the City of Roseville, Dated February 5, 2013
17. General Plan Amendment Exhibit Map, Prepared by Morton & Pitalo, Inc., Dated August, 2008
18. Opinion of Probable Construction Costs, Prepared by Morton & Pitalo, Inc., April 9, 2013
Revision Date
19. Preliminary Grading Plan Exhibit Map, Prepared by Morton & Pitalo, Inc., Dated January, 2009
20. Rezone Exhibit Map, Prepared by Morton & Pitalo, Inc., Dated August, 2008
21. Tentative Parcel Exhibit Map, Prepared by Morton & Pitalo, Inc., Dated August, 2008
22. Tree Removal Exhibit Map, Prepared by Morton & Pitalo, Inc., Dated August, 2008
23. Utility Plan Exhibit Map, Prepared by Morton & Pitalo, Inc., Dated January, 2009
24. Assessment of Impacts, Tree Removal Summary and Mitigation Overview, Prepared by Sierra Nevada Arborists, Dated January 27, 2009
25. U.S. Army Corps of Engineers Jurisdictional Delineation, Prepared by Olberding Environmental, Dated March 2013
26. Revised Wetland Verification Request; Olberding Environmental Letter dated May 1, 2013 with Aerial Updated April 24, 2013
27. Letter from U.S. Army Corps of Engineers Regarding Revised Wetland Verification, Dated May 15, 2013.
28. Roseville Parks, Trails & Bikeways Map, Prepared by City of Roseville, Undated
29. Roseville Municipal Code 19.10.030 Residential Zone General Development Standards
30. Phase One Environmental Site Assessment, prepared by ENGEO, Inc., Dated April 4, 2006

31. City of Roseville Bicycle Master Plan - Existing and Proposed Bicycle Facilities Map for Bicycle and Multi-Use Trails, prepared by the City of Roseville, Dated 2008
32. Planned City of Roseville Bike Trail Maps Showing Potential Modifications to the Existing Lot Lines For Lots 12, 15 and 16, Multiple Preparers, Multiple Dates.
33. Sample Purchase and Sale Agreement
34. Tentative Subdivision Map Minor Modification and Tentative Map Extension, prepared by City of Roseville, dated September 2, 2014.

Dwg. X:\200605-0005-03\DWG\ENGR\EXHIBITS\15 0505 LOT 1 (CIB01).DWG | Saved: 05-05-15 03:45pm SPEDERSEN | Plotted: 05-05-15 03:37pm SPEDERSEN





COUNCIL COMMUNICATION

CC #: 7468

File #: 0400-04-09-1

Title: Fiddymment Ranch Phase 2 Village F-9-A1 - Certificate of Completion

Contact: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.4.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council take the following action:

1. Adopt the attached resolution accepting Fiddymment Ranch Phase 2 Village F-9-A1, CWJ # 130238 as complete.
2. Authorize the City Engineer to execute the Certificate of Completion.

BACKGROUND

The Engineering Division has made final inspection of the above project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications.

FISCAL IMPACT

The actions requested as part of this item have a no impact to the City's General Fund. Construction costs for this project were paid by the Developer.

ECONOMIC DEVELOPMENT / JOBS CREATED

By accepting this project as complete will not directly create new jobs, but rather maintain current employee levels of the developer until such time the project is fully built-out.

ENVIRONMENTAL REVIEW

The Council action of accepting Fiddymment Ranch Phase 2 Village F-9-A1, CWJ#130238 as complete will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15060(c)(2)). Adoption of Fiddymment Ranch Phase 2 Village F9-

A1, CWJ#130238 does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Orville Chatterton, Construction Inspector

Kevin Payne, Development Services Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-66

COC

Exhibit A

Final Map

Maintenance Bond

RESOLUTION NO. 16-66

RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE F-9-A1 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION.

BE IT RESOLVED by the Council of the City of Roseville as follows:

1. The "Certificate of Completion" on file in the City Clerk's Department relative to that public work known as the Fiddymment Ranch Phase 2 Village F-9-A1 is hereby approved and the public work accepted.
2. All rights of way and easements as offered on the final map of recorded with Placer County Recorder's Office Book DD of Maps, Page 43 is hereby accepted.
3. The City Engineer is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville, this ____ day of _____, 20 16 , by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

CITY CLERK

AFTER RECORDING RETURN TO:
CITY CLERK
311 VERNON STREET
ROSEVILLE, CA 95678

CERTIFICATE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work known as FIDDYMENT RANCH PHASE 2 VILLAGE F9-A1 Project was completed and accepted by the City of Roseville on _____. The location is indicated on the attached map, marked as Exhibit "A" and incorporated herein by this reference.

The general contractor on said project was **TEICHERT CONSTRUCTION**.

The surety on said project was **A SUBDIVISION MAINTENANCE BOND GUARANTEE AND WARRANTY SECURITY, DEVELOPERS SURETY AND INDEMNITY COMPANY, BOND NO. 704412S**

MARC STOUT
City Engineer
City of Roseville

ATTEST:

SONIA OROZCO, CITY CLERK

STATE OF CALIFORNIA)
COUNTY OF PLACER)

I, MARC STOUT, being first duly sworn, depose and say: I am the City Engineer of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Certificate of Completion and know its contents and the facts stated therein are true.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

MARC STOUT
City Engineer
City of Roseville

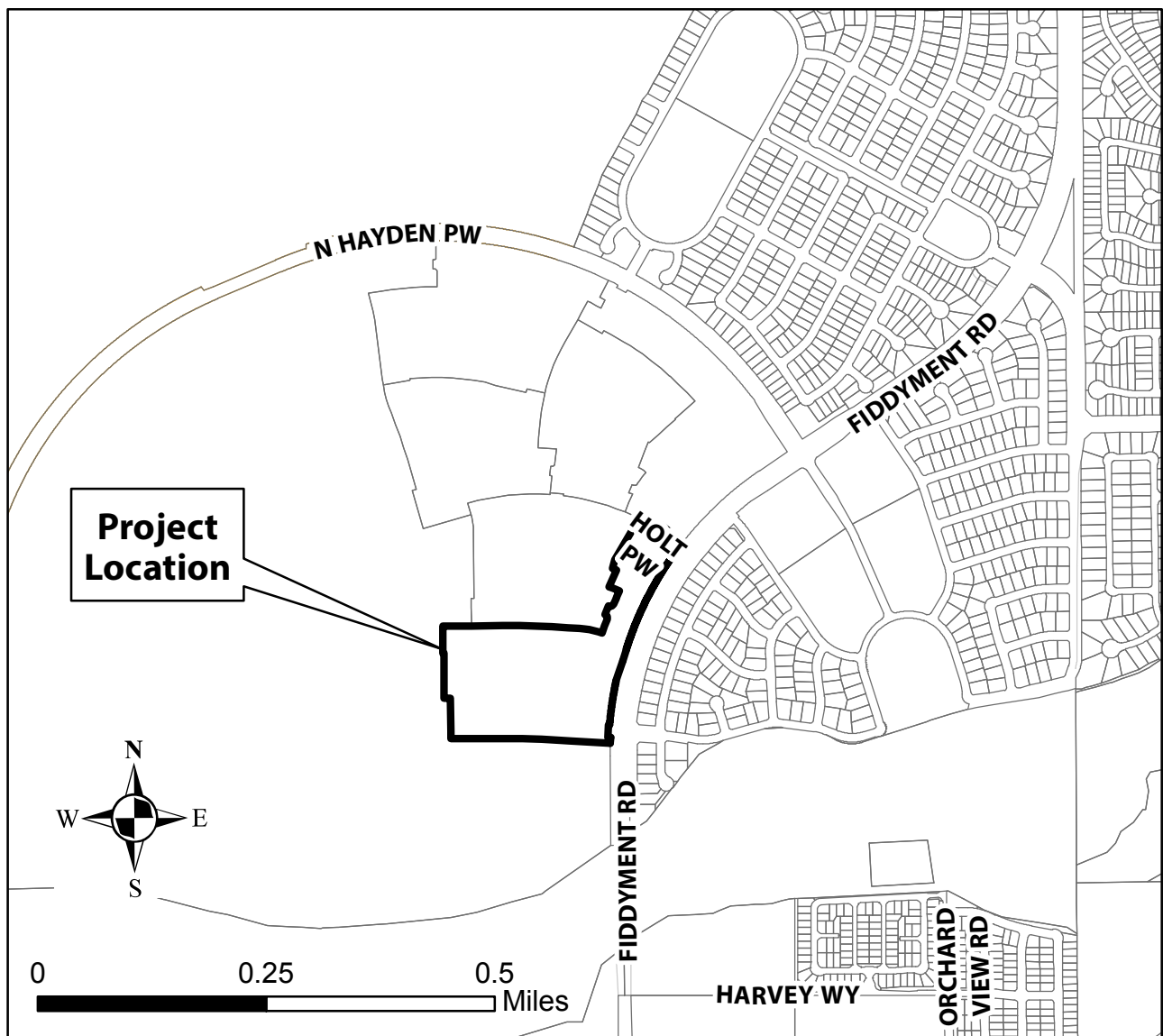
STATE OF CALIFORNIA)
COUNTY OF PLACER)

Subscribed and sworn to (or affirmed) before me on this ____ day of _____, 2016, by _____ proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Notary Public in and for said County and State

EXHIBIT A

City of Roseville Fiddymment Ranch Phase 2 Village F-9-A1





COUNCIL COMMUNICATION

CC #: 7496
File #: 0320-01

Title: 2016 Weed Abatement
Contact: Rob Arnett 774-5827 rarnett@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.5.

RECOMMENDATION TO COUNCIL

To initiate the 2016 Weed Abatement Program staff recommends approval of the attached resolution declaring weeds, rubbish, dirt, and/or rank growth within the City of Roseville on the parcels identified on the attached list, which is based on available City of Roseville GIS data at the time of report, to be a public nuisance, as well as ordering the Fire Chief to give notice of the passage and setting a time and place for the required public hearing. The public hearing will be scheduled for the City Council meeting on Wednesday, March 16, 2016.

BACKGROUND

The Fire Department manages a very proactive and effective annual Weed Abatement Program. Each year all vacant parcels are identified and property owners are notified of their obligation to maintain adequate fire breaks as a fire protection/prevention measure. The fire and life safety requirements for vegetation management are contained in the California Fire Code, which is enforced by the Roseville Fire Department. Property owners are given an opportunity to abate hazards that exist on their parcels. The City only conducts abatement activities on private parcels once the owner has failed to abate the hazard by a pre-determined date specified by the Fire Department. Abatement costs related to private properties are billed to the respective property owners. The notification, public hearing, and cost recovery processes are specified in Chapter 9.20 of the Roseville Municipal Code.

FISCAL IMPACT

Owners of private parcels that are abated by the City are responsible for the costs associated with providing abatement services. A bill is sent to each property owner detailing the abatement costs, as well as an administrative fee. If the property owner fails to pay the bill, the City places a lien on the subject property and the monies owed are reimbursed through the property tax collection process.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not Applicable

ENVIRONMENTAL REVIEW

The Weed Abatement Program involves minor alteration in the condition of the land, water, and/or vegetation and will not remove healthy, mature, scenic trees. This activity is categorically exempt from CEQA as a Class 4 Exemption (State CEQA Guidelines Section 15304). The Exemption has been prepared and no further CEQA action is required.

Respectfully Submitted,

Rob Arnett, Fire Inspection Supervisor

Rick Bartee, Fire Chief



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-69

Weed Abatement Parcel List

Notice of Exemption

RESOLUTION NO. 16-69

RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE DECLARING ALL WEEDS, DIRT, RUBBISH OR RANK GROWTHS WITHIN THE CITY OF ROSEVILLE TO BE A PUBLIC NUISANCE; ORDERING THE FIRE CHIEF TO GIVE NOTICE OF THE PASSAGE OF THIS RESOLUTION; AND SETTING A TIME AND PLACE FOR HEARING ANY OBJECTIONS TO THE PROPOSED DESTRUCTION OR REMOVAL OF SUCH WEEDS, DIRT, RUBBISH, OR RANK GROWTHS.

Whereas, weeds, dirt, rubbish and rank growths are growing, located and existing on property within the City of Roseville and constitute a public nuisance, and

Whereas, it is the desire of the Council to cause the abatement of that nuisance by destruction or removal of such weeds, dirt, rubbish and rank growths;

Now, therefore, be it resolved by the City Council of the City of Roseville as follows:

That all weeds, dirt, rubbish and rank growths growing, located or existing on the property within the City of Roseville described by Placer County Assessor's parcel numbers in the "weed, dirt, rubbish and rank growths abatement list – FY 2015 - 2016", a copy of which is on file in the office of the City Clerk, are hereby declared to be a public nuisance.

1. That the Fire Chief of the City of Roseville is hereby ordered to give notice of the passage of this resolution and required by law stating, among other things, that unless such nuisance be abated without delay of the destruction or removal of the weeds, dirt, rubbish and rank growths. The nuisance will be abated by the city authorities and the expenses thereof assessed upon the lots, parcels and lands from or on which such nuisance is abated.
2. That Wednesday, March 16, 2016 at 7:00 p.m. or as soon thereafter as the matter can be heard, in the Council Chambers in City Hall, 311 Vernon Street, Roseville, California, is hereby fixed as the time and place for hearing.
3. That the City Clerk is hereby directed to publish notice to destroy or remove those weeds, dirt, rubbish or rank growths declared therein to be a public nuisance at least twice in a newspaper published and circulated in the City of Roseville. The first publication of which shall be at least (10) ten days prior to the time fixed herein by this Council for hearing objections.

Passed and adopted by the Council of the City of Roseville this following
vote on roll call:

AYES: COUNCILMEMBERS:

NOES: COUNCILMEMBERS:

ABSENT: COUNCILMEMBERS:

MAYOR

ATTEST:

CITY CLERK

Weed Abatement 2016 – List of Parcels

Address	APN	Address	APN
444 ROSEVILLE RD	472-070-016-000	101 FOLSOM RD	013-075-010-000
100 VALLEY OAK DR	472-370-020-000	1207 SAMOA WY	469-130-026-000
112 VALLEY OAK DR	472-370-026-000	214 KENROY LN	472-170-004-000
400 ROSEVILLE RD	472-080-008-000	124 CENTER ST	013-022-047-000
400 ROSEVILLE RD	472-070-008-000	812 MACHADO LN	472-210-033-000
105 VALLEY OAK DR	472-370-032-000	7001 GALILEE RD	017-410-043-000
482 ROSEVILLE RD	472-050-024-000	1206 MEADOW LN	469-200-026-000
400 ROSEVILLE RD	472-060-012-000	119 WILLS RD	015-150-025-000
480 ROSEVILLE RD	472-050-020-000	1001 CREEKSIDE RIDGE DR	015-166-057-000
102 VALLEY OAK DR	472-370-021-000	711 OAK ST	013-163-003-000
486 ROSEVILLE RD	472-050-008-000	319 RIVERSIDE AV	014-141-014-000
400 ROSEVILLE RD	472-080-007-000	216 FIG ST	012-134-017-000
113 VALLEY OAK DR	472-370-028-000	400 LINCOLN ST	011-147-011-000
486 ROSEVILLE RD	472-050-014-000	1620 WINCHESTER WY	048-430-021-000
104 VALLEY OAK DR	472-370-022-000	246 FIG ST	012-134-031-000
420 ROSEVILLE RD	472-080-009-000	106 VALLEY OAK DR	472-370-023-000
486 ROSEVILLE RD	472-050-007-000	8650 AUBURN BL	471-080-003-000
484 ROSEVILLE RD	472-050-034-000	426 FIFTH ST	014-041-016-000
109 VALLEY OAK DR	472-370-030-000	600 HARDING BL	015-140-007-000
480 ROSEVILLE RD	472-050-022-000	220 EAST ST	013-024-023-000
400 ROSEVILLE RD	472-070-018-000	113 ELM ST	012-172-020-000
107 VALLEY OAK DR	472-370-031-000	8801 FOOTHILLS BL	017-230-072-000
400 ROSEVILLE RD	472-070-009-000	2130 DOUGLAS BL	048-420-013-000
103 VALLEY OAK DR	472-370-033-000	87 PARRY ST	013-022-033-000
114 VALLEY OAK DR	472-370-027-000	1590 VINEYARD RD	012-260-069-000
476 ROSEVILLE RD	472-060-022-000	470 ROSEVILLE RD	472-060-014-000
484 ROSEVILLE RD	472-050-035-000	718 SUNRISE AV	471-220-021-000
400 ROSEVILLE RD	472-060-011-000	404 RIVERSIDE AV	014-033-029-000
490 ROSEVILLE RD	472-050-013-000	1650 HUNTINGTON DR	048-260-030-000
101 HICKORY ST	012-184-010-000	505 BERRY ST	015-100-031-000
446 ROSEVILLE RD	472-070-011-000	1110 CHURCH ST	012-185-024-000
450 ROSEVILLE RD	472-060-013-000	500 DEREK PL	015-350-005-510
350 SIXTH ST	014-051-017-000	201 SNOWY EGRET CT	456-180-006-000
115 FIG ST	012-171-022-000	1751 PFE RD	473-100-022-000
450 DIAMOND OAKS RD	015-360-022-000	446 ROSEVILLE RD	472-070-017-000
2 SOMER RIDGE DR	471-020-036-000	2677 STOCKWOOD DR	468-210-041-000
99 VALLEY OAK DR	472-370-035-000	919 OAK RIDGE DR	470-050-008-000
705 OAK ST	013-163-004-000	919 LAWTON AV	015-080-052-000
532 ALOLA ST	013-053-009-000	213 CEDAR ST	012-141-010-000
101 VALLEY OAK DR	472-370-034-000	1820 TAYLOR RD	015-450-025-000
1411 ROCKY RIDGE DR	048-010-067-000		

825 LINCOLN ST	011-063-002-000	1741 PARK OAK DR	456-160-025-000
620 SUNRISE AV	014-270-044-000	140 MAIN ST	011-146-018-000
2111 MARCH RD	473-100-014-000	140 LOST OAK CT	456-160-020-000
470 ROSEVILLE RD	472-060-016-000	941 LAWTON AV	015-080-001-000
125 WILLS RD	015-150-023-000	1460 STONE POINT DR	048-460-043-000
1616 KIT CARSON WY	048-350-016-000	5741 FIVE STAR BL	
420 CLINTON AV	014-251-019-000	1411 E ROSEVILLE PW	
450 ROSEVILLE RD	472-060-010-000	2664 BICKLEIGH LP	
1017 DOUGLAS BL	013-194-027-000	9501 FAIRWAY DR	
408 EARL AV	014-252-003-000	1009 BILLINGTON LN	
600 CHURCH ST	012-144-010-000	2648 BICKLEIGH LP	
111 WILLS RD	015-150-024-000	5701 FIVE STAR BL	
531 VALLEJO AV	011-250-007-000	127 DIAMOND CREEK PL	
600 KINDRED LN	014-263-045-000	7051 GALILEE RD	
1850 TAYLOR RD	015-450-024-000	125 DIAMOND CREEK PL	
845 LINCOLN ST	011-063-005-000	7011 GALILEE RD	
715 SUNRISE AV	470-010-044-000	7021 GALILEE RD	
1614 KIT CARSON WY	048-350-015-000	123 CIRCUIT DR	
1118 CHURCH ST	012-185-012-000	7041 GALILEE RD	
510 LINCOLN ST	011-147-014-000	1009 DOUGLAS BL	
1905 DOUGLAS BL	048-010-080-000	1917 PARK OAK DR	
205 W IVY ST	012-183-006-000	1007 DOUGLAS BL	
600 KINDRED LN	014-263-042-000	115 LINDA DR	013-101-014-000
1001 WINDING CREEK RD	017-250-058-000	751 WASHINGTON BL	011-101-012-000
1877 PARK OAK DR	456-180-004-000	1623 SANTA CLARA DR	048-260-037-000
601 BERRY ST	015-100-057-000	1796 PARK OAK DR	456-170-020-000
5300 PHILLIP RD	017-101-018-000	131 WILLS RD	015-140-004-000
1876 OAK CREST DR	456-190-014-000	416 LINCOLN ST	011-147-008-000
8151 INDUSTRIAL AV	017-410-017-000	1123 WAYNE DR	014-130-008-000
10435 FAIRWAY DR	017-123-020-000	118 HARDING BL	013-212-039-000
1513 EUREKA RD	048-010-070-000	10021 FOOTHILLS BL	017-250-019-000
1640 ROCKY RIDGE DR	048-520-031-000	8000 ATKINSON ST	473-180-011-000
10019 FOOTHILLS BL	017-250-010-510	8150 INDUSTRIAL AV	017-410-024-000
801 LINCOLN ST	011-063-004-000	1100 COTTONWOOD DR	469-110-031-000
138 MAIN ST	011-146-019-000	251 CONFERENCE CENTER DR	363-011-014-000
132 LOST OAK CT	456-160-021-000	196 DIAMOND OAKS RD	015-020-014-000
9713 SIERRA COLLEGE BL	466-030-046-000	250 CONFERENCE CENTER DR	363-011-013-000
420 LINCOLN ST	011-147-007-000	1035 ROSEVILLE PW	363-011-047-000
725 WASHINGTON BL	011-101-011-000	1004 CHURCH ST	012-171-030-000
1600 DOUGLAS BL	014-450-041-000	580 GIBSON DR	363-011-002-000
4999 S CIRBY WY	467-080-001-510	923 LAWTON AV	015-080-045-000
10191 FOOTHILLS BL	485-080-005-000	1798 PLEASANT GROVE BL	017-162-049-000
1001 ROSEVILLE PW	363-030-064-000	2151 BLUE OAKS BL	017-101-038-000
906 DOUGLAS BL	014-113-049-000	200 BONNY KNOLL RD	014-120-010-000
1021 CIRBY WY	471-190-046-000	116 ELM ST	012-142-018-000
1812 PARK OAK DR	456-170-018-000	5220 PHILLIP RD	017-101-019-000

572 GIBSON DR	363-011-004-000	100 ANDERSON CT	012-046-045-000
131 CHURCH ST	012-200-002-000	10568 INDUSTRIAL AV	485-030-007-000
211 AMBERWOOD RD	012-010-022-000	1400 WINDING CREEK RD	485-080-003-000
2551 HAYDEN PW	492-010-034-000	168 IVY ST	012-184-040-000
8101 WASHINGTON BL	017-410-025-000	9237 SIERRA COLLEGE BL	466-190-026-000
125 GRAPE ST	012-185-029-000	1160 ROSEVILLE PW	363-011-057-000
4601 WESTPARK DR	017-101-026-000	1370 BLUE OAKS BL	017-250-032-000
1241 PLEASANT GROVE BL	017-410-072-000	823 CIRBY WY	471-010-009-000
7300 GALILEE RD	017-410-020-000	104 IVY ST	012-184-056-000
2117 VIOLA WY	046-020-064-000	1024 CABRIS LN	482-380-049-000
165 HICKORY ST	012-184-026-000	10572 INDUSTRIAL AV	485-030-009-000
144 IVY ST	012-184-046-000	10616 INDUSTRIAL AV	017-123-004-000
108 IVY ST	012-184-055-000	2350 PLEASANT GROVE BL	017-151-024-000
1111 KIMBERLY CT	471-310-020-000	1410 STONE POINT DR	048-460-042-000
188 IVY ST	012-184-035-000	161 HICKORY ST	012-184-025-000
2088 HERITAGE DR	363-120-021-000	1500 WINDING CREEK RD	485-080-002-000
2278 LANGTREE DR	490-170-021-000	1887 BALBOA DR	469-100-046-000
108 VALLEY OAK DR	472-370-024-000	172 IVY ST	012-184-039-000
136 IVY ST	012-184-048-000	219 HARDING BL	013-270-017-000
1600 DOUGLAS BL	014-450-053-000	9277 SIERRA COLLEGE BL	466-190-030-000
180 IVY ST	012-184-037-000	2041 ASHTON DR	490-160-015-000
10608 INDUSTRIAL AV	485-030-006-000	2151 PLEASANT GROVE BL	017-151-023-000
100 CIRBY HILLS DR	472-370-038-000	1101 WINDING CREEK RD	485-090-003-000
148 IVY ST	012-184-045-000	823 CIRBY WY	471-010-003-000
1109 ROTHWELL LN	490-210-033-000	160 IVY ST	012-184-042-000
137 HICKORY ST	012-184-019-000	8300 INDUSTRIAL AV	360-070-002-000
116 ANDERSON CT	012-046-043-000	8485 WASHINGTON BL	360-070-011-000
152 IVY ST	012-184-044-000	1401 EUREKA RD	048-460-041-000
2246 LANGTREE DR	490-160-062-000	1486 STONE POINT DR	048-460-039-000
192 IVY ST	012-184-034-000	1629 ESKATON LP	482-380-089-000
540 GIBSON DR	363-011-007-000	580 N SUNRISE AV	015-450-085-000
176 IVY ST	012-184-038-000	2171 MARCH RD	473-100-035-000
435 FIFTH ST	014-061-039-000	2141 MARCH RD	473-100-032-000
117 ANDERSON CT	012-046-042-000	238 GIBSON DR	361-230-006-000
157 HICKORY ST	012-184-024-000	8433 WASHINGTON BL	360-070-021-000
121 WILLS RD	015-150-002-000	254 GIBSON DR	361-230-008-000
181 HICKORY ST	012-184-030-000	1395 E ROSEVILLE PW	456-010-022-000
132 IVY ST	012-184-049-000	10577 FAIRWAY DR	357-150-009-000
1000 CHURCH ST	012-171-031-000	8437 WASHINGTON BL	360-070-016-000
116 IVY ST	012-184-053-000	234 GIBSON DR	361-230-007-000
185 HICKORY ST	012-184-031-000	124 HORNBY CT	490-350-045-000
120 IVY ST	012-184-052-000	246 GIBSON DR	361-230-004-000
111 VALLEY OAK DR	472-370-029-000	8441 WASHINGTON BL	360-070-020-000
2300 PLEASANT GROVE BL	017-151-021-000	1851 E ROSEVILLE PW	468-010-044-000
1008 CABRIS LN	482-380-042-000	2151 MARCH RD	473-100-033-000
164 IVY ST	012-184-041-000	1421 EUREKA RD	048-460-052-000

1471 STONE POINT DR	048-460-023-000	200 GIBSON DR	361-230-010-000
121 LINDA DR		1100 WINDING CREEK RD	485-090-002-000
1941 ROCKY RIDGE DR		1600 WINDING CREEK RD	485-080-001-000
587 N SUNRISE AV		2401 HIGH SCHOOL RD	017-101-030-000
1095 ROSEVILLE PW		189 HICKORY ST	012-184-032-000
3170 OLD AUBURN RD		1470 STONE POINT DR	048-460-030-000
5300 FIDDYMENT RD		104 KEEHNER AV	014-113-047-000
123 LINDA DR		8429 WASHINGTON BL	360-070-017-000
301 CONFERENCE CENTER DR		1257 PLEASANT GROVE BL	017-410-066-000
4751 BOB DOYLE DR		204 PAUL CT	015-360-026-000
5180 FIDDYMENT RD		1032 CABRIS LN	482-380-048-000
5120 PHILLIP RD		508 OAK RAVINE CT	456-190-004-000
5400 FIDDYMENT RD		1745 BLUE OAKS BL	017-116-002-000
2401 BLUE OAKS BL		117 HICKORY ST	012-184-014-000
270 GIBSON DR		5751 FIVE STAR BL	356-010-002-000
1262 PLEASANT GROVE BL		309 VALLEJO AV	015-080-019-000
2601 N HAYDEN PW		1000 CABRIS LN	482-380-043-000
1268 PLEASANT GROVE BL		823 CIRBY WY	471-010-006-000
1009 RESERVE DR		160 DIAMOND CREEK PL	482-420-007-000
1013 RESERVE DR		8481 WASHINGTON BL	360-070-012-000
281 CONFERENCE CENTER DR		1271 ANTELOPE CREEK DR	015-166-014-000
5351 FIDDYMENT RD		9233 SIERRA COLLEGE BL	466-190-025-000
1017 MAIN ST		2400 PLEASANT GROVE BL	017-151-020-000
1120 WINDING CREEK RD		2181 MARCH RD	473-100-036-000
1025 RESERVE DR		4701 FIDDYMENT RD	492-010-031-000
531 N SUNRISE AV		556 GIBSON DR	363-011-005-000
1130 WINDING CREEK RD		10612 INDUSTRIAL AV	485-030-008-000
1140 WINDING CREEK RD		3170 OLD AUBURN RD	467-090-002-000
521 N SUNRISE AV		1995 ROCKY RIDGE DR	469-100-013-000
1033 RESERVE DR		1200 WINDING CREEK RD	485-090-001-000
1029 RESERVE DR		8990 WASHINGTON BL	363-020-019-000
1005 RESERVE DR		242 GIBSON DR	361-230-005-000
3050 VILLAGE PLAZA DR		564 GIBSON DR	363-011-003-000
3050 VILLAGE CENTER DR		260 S HARDING BL	014-183-029-000
1401 WINDING CREEK RD		823 CIRBY WY	471-010-005-000
1612 KIT CARSON WY	048-350-021-000	150 DIAMOND CREEK PL	482-420-008-000
2200 MARCH RD	473-100-041-000	7400 GALILEE RD	017-410-019-000
2191 MARCH RD	473-100-037-000	135 DIAMOND CREEK PL	482-420-005-000
1351 SECRET RAVINE PW	456-010-042-000	1230 MELODY LN	472-330-052-000
2021 LENDELL LN	473-100-045-000	8409 WASHINGTON BL	360-070-019-000
262 ELM ST	012-132-047-000	109 FRANKLIN ST	014-112-018-000
509 OAK RAVINE CT	456-190-003-000	1099 ROSEVILLE PW	363-011-042-000
8453 WASHINGTON BL	360-070-013-000	140 IVY ST	012-184-047-000
2211 MARCH RD	473-100-039-000	8405 WASHINGTON BL	360-070-023-000
2150 PRAIRIE TOWN WY	492-010-048-000	2161 MARCH RD	473-100-034-000
5010 FOOTHILLS BL	476-190-005-000	8025 INDUSTRIAL AV	017-410-068-000

128 IVY ST	012-184-050-000	1828 S CIRBY WY	469-280-009-000
3975 DOUGLAS BL	048-021-040-000	2140 MARCH RD	473-100-044-000
620 OAK ST	013-152-019-000	2101 WHARTON LN	490-360-002-000
4501 WESTPARK DR	017-101-027-000	300 WASHINGTON BL	011-145-005-000
1875 PLEASANT GROVE BL	017-151-034-000	8473 INDUSTRIAL AV	360-070-005-000
133 CHURCH ST	012-200-001-000	10561 FAIRWAY DR	357-150-010-000
1701 PLEASANT GROVE BL	017-162-074-000	405 CHURCH ST	012-152-011-000
1781 SANTA CLARA DR	013-213-026-000	8457 WASHINGTON BL	360-070-008-000
115 DIAMOND CREEK PL	482-420-004-000	2113 CORYTON LN	490-290-042-000
10537 FAIRWAY DR	357-150-012-000	1008 CHURCH ST	012-171-029-000
145 DIAMOND CREEK PL	482-420-006-000	2056 ASHBURY LN	490-280-033-000
8450 INDUSTRIAL AV	017-113-008-000	1801 PFE RD	473-100-047-000
1300 WINDING CREEK RD	485-080-004-000	935 HIGHLAND POINTE DR	363-020-053-000
262 GIBSON DR	361-230-009-000	1961 PFE RD	473-100-030-000
100 IVY ST	012-184-057-000	6080 WOODCREEK OAKS BL	017-230-053-000
124 IVY ST	012-184-051-000	94 VALLEY OAK DR	472-370-017-000
193 HICKORY ST	012-184-033-000	4051 FOOTHILLS BL	475-050-019-000
8449 WASHINGTON BL	360-070-015-000	1751 PLEASANT GROVE BL	017-162-088-000
8300 FOOTHILLS BL	017-230-061-000	10651 INDUSTRIAL AV	017-117-012-000
212 KEEHNER AV	014-113-060-000	1260 PLEASANT GROVE BL	477-080-006-000
120 DIAMOND CREEK PL	482-420-002-000	2150 BLUE OAKS BL	017-101-036-000
7250 GALILEE RD	017-410-070-000	1001 SECRET RAVINE PW	456-010-073-000
3801 COUNTRY CLUB DR	017-380-013-000	2151 PRAIRIE TOWN WY	492-010-017-000
1001 SHEARER ST	013-012-023-000	92 VALLEY OAK DR	472-370-016-000
625 ALTA VISTA AV	011-181-006-000	173 LOST OAK CT	456-160-014-000
2025 ASHTON DR	490-160-017-000	485 ROSEVILLE RD	472-050-010-000
121 N SUNRISE AV	013-213-024-000	86 VALLEY OAK DR	472-370-013-000
3414 KENNERLEIGH PW	490-280-009-000	116 LOST OAK CT	456-160-023-000
551 DIAMOND OAKS RD	363-011-058-000	1950 BLUE OAKS BL	017-117-046-000
490 ROSEVILLE RD	472-050-012-000	96 VALLEY OAK DR	472-370-018-000
2112 APPERSETT LP	490-280-055-000	2238 LANGTREE DR	490-160-061-000
10553 FAIRWAY DR	357-150-011-000	305 CAMPO ST	011-182-010-000
213 FIG ST	012-162-009-000	6560 WOODCREEK OAKS BL	017-230-054-000
8477 WASHINGTON BL	360-070-004-000	4851 FIDDYMENT RD	492-010-018-000
8465 WASHINGTON BL	360-070-007-000	88 VALLEY OAK DR	472-370-014-000
2001 STRAUCH DR	048-260-032-000	470 ROSEVILLE RD	472-060-015-000
1012 CHURCH ST	012-171-013-000	1200 ATLANTIC ST	015-150-006-000
117 IVY ST	012-183-008-000	4951 FIDDYMENT RD	492-010-019-000
1618 KIT CARSON WY	048-350-018-000	98 VALLEY OAK DR	472-370-019-000
8170 SIERRA COLLEGE BL	048-021-057-000	241 NEVADA AV	013-192-036-000
10521 FAIRWAY DR	357-150-005-000	7100 GALILEE RD	017-410-085-000
10648 INDUSTRIAL AV	485-010-007-000	2170 MARCH RD	473-100-043-000
2011 LENDELL LN	473-100-046-000	1055 AMINGTON DR	490-360-003-000
300 ELEFA ST	011-092-010-000	4272 BRICK MASON CI	492-080-024-000
444 ROSEVILLE RD	472-070-015-000	4011 PORCH SWING DR	492-050-021-000
2040 ABBY GATE DR	490-290-009-000	2180 MARCH RD	473-100-042-000

90 VALLEY OAK DR	472-370-015-000	3745 MINERS RAVINE DR	455-260-006-000
8445 WASHINGTON BL	360-070-014-000	3999 FERDINAND DR	
550 DIAMOND OAKS RD	363-011-054-000	3113 LENNON DR	455-300-014-000
250 GIBSON DR	361-230-003-000	3752 MINERS RAVINE DR	455-260-014-000
2201 MARCH RD	473-100-038-000	3737 MINERS RAVINE DR	455-260-005-000
141 BIRCH ST	012-144-005-000	301 BASSILICA CT	484-190-038-000
240 CONFERENCE CENTER DR	361-230-002-000	3776 MINERS RAVINE DR	455-260-017-000
184 IVY ST	012-184-036-000	3056 LENNON DR	455-300-066-000
4015 WHEELRIGHT WY	492-070-033-000	3001 LENNON DR	455-300-001-000
9273 SIERRA COLLEGE BL	466-190-031-000	3185 LENNON DR	455-300-023-000
1601 WINDING CREEK RD	485-090-005-000	309 BASSILICA CT	484-190-037-000
112 IVY ST	012-184-054-000	3129 LENNON DR	455-300-016-000
5251 FIDDYMENT RD	017-117-045-000	132 GERRARD CT	455-260-024-000
1721 PLEASANT GROVE BL	017-162-087-000	108 GERRARD CT	455-260-021-000
1430 W COLONIAL PW	468-130-055-000	3753 MINERS RAVINE DR	455-260-007-000
329½ B ST	014-033-023-000	3760 MINERS RAVINE DR	455-260-015-000
329½ B ST	014-033-024-000	3105 LENNON DR	455-300-013-000
156 IVY ST	012-184-043-000	3033 LENNON DR	455-300-005-000
1016 CABRIS LN	482-380-050-000	3000 LENNON DR	455-300-072-000
2210 MARCH RD	473-100-040-000	125 LENNON CT	455-300-028-000
1201 WINDING CREEK RD	485-090-004-000	3177 LENNON DR	455-300-022-000
8469 INDUSTRIAL AV	360-070-006-000	3032 LENNON DR	455-300-069-000
8425 WASHINGTON BL	360-070-022-000	3137 LENNON DR	455-300-017-000
8250 SIERRA COLLEGE BL	048-021-058-000	2949 LAMPARD WY	455-300-044-000
1846 VERRAZONA DR	484-200-037-000	3081 LENNON DR	455-300-010-000
228 HARDING BL	013-212-049-000	216 VANNEY CT	455-300-035-000
3064 LENNON DR	455-300-065-000	3073 LENNON DR	455-300-009-000
124 GERRARD CT	455-260-023-000	3153 LENNON DR	455-300-019-000
3769 MINERS RAVINE DR	455-260-009-000	2941 LAMPARD WY	455-300-043-000
3145 LENNON DR	455-300-018-000	2925 LAMPARD WY	455-300-041-000
3169 LENNON DR	455-300-021-000	2917 LAMPARD WY	455-300-040-000
117 GERRARD CT	455-270-001-000	109 LENNON CT	455-300-026-000
3017 LENNON DR	455-300-003-000	3998 FERDINAND DR	
3193 LENNON DR	455-300-024-000	3024 LENNON DR	455-300-070-000
3784 MINERS RAVINE DR	455-260-018-000	3049 LENNON DR	455-300-007-000
116 GERRARD CT	455-260-022-000	208 VANNEY CT	455-300-036-000
3009 LENNON DR	455-300-002-000	101 LENNON CT	455-300-025-000
3761 MINERS RAVINE DR	455-260-008-000	3025 LENNON DR	455-300-004-000
3121 LENNON DR	455-300-015-000	2933 LAMPARD WY	455-300-042-000
1847 VERRAZONA DR	484-200-036-000	3161 LENNON DR	455-300-020-000
3097 LENNON DR	455-300-012-000	117 LENNON CT	455-300-027-000
3744 MINERS RAVINE DR	455-260-013-000	3065 LENNON DR	455-300-008-000
3072 LENNON DR	455-300-064-000	200 VANNEY CT	455-300-037-000
3768 MINERS RAVINE DR	455-260-016-000	3120 LENNON DR	455-300-063-000
3048 LENNON DR	455-300-067-000	2957 LAMPARD WY	455-300-045-000
1865 DELLA VERONA DR	484-190-031-000	224 VANNEY CT	455-300-034-000

3089 LENNON DR	455-300-011-000	3056 BEARDSLEY WY	455-290-020-000
3041 LENNON DR	455-300-006-000	3022 BEARDSLEY WY	455-290-023-000
3016 LENNON DR	455-300-071-000	3072 DEMPSEY DR	455-290-005-000
3081 WALCOTT WY	455-300-061-000	3008 DEMPSEY DR	455-290-012-000
3048 WALCOTT WY	455-300-052-000	3040 BEARDSLEY WY	455-290-022-000
3024 WALCOTT WY	455-300-055-000	3017 DEMPSEY DR	455-290-016-000
3008 WALCOTT WY	455-300-057-000	3024 DEMPSEY DR	455-290-010-000
101 DEMPSEY CT	455-290-034-000	3000 DEMPSEY DR	455-290-013-000
3033 BEARDSLEY WY	455-290-030-000	180 DEMPSEY CT	455-280-002-000
3096 WALCOTT WY	455-300-046-000	3032 DEMPSEY DR	455-290-009-000
3049 BEARDSLEY WY	455-290-032-000	156 DEMPSEY CT	455-280-005-000
3033 WALCOTT WY	455-300-058-000	3048 DEMPSEY DR	455-290-008-000
3057 BEARDSLEY WY	455-290-033-000	3064 BEARDSLEY WY	455-290-019-000
3040 WALCOTT WY	455-300-053-000	3009 DEMPSEY DR	455-290-015-000
3088 WALCOTT WY	455-300-047-000	148 DEMPSEY CT	455-280-006-000
3785 MINERS RAVINE DR	455-260-011-000	3064 DEMPSEY DR	455-290-006-000
217 VANNEY CT	455-300-031-000	124 DEMPSEY CT	455-290-001-000
2901 LAMPARD WY	455-300-038-000	3033 DEMPSEY DR	455-290-018-000
3000 BEARDSLEY WY	455-290-025-000	172 DEMPSEY CT	455-280-003-000
3009 BEARDSLEY WY	455-290-027-000	3016 DEMPSEY DR	455-290-011-000
3767 COPPERLEAF ST	455-270-003-000	100 DEMPSEY CT	455-290-004-000
101 GERRARD CT	455-270-002-000	3048 BEARDSLEY WY	455-290-021-000
3064 WALCOTT WY	455-300-050-000	188 DEMPSEY CT	455-280-001-000
3072 WALCOTT WY	455-300-049-000	3025 DEMPSEY DR	455-290-017-000
3025 BEARDSLEY WY	455-290-029-000	164 DEMPSEY CT	455-280-004-000
233 VANNEY CT	455-300-033-000	3016 BEARDSLEY WY	455-290-024-000
3001 BEARDSLEY WY	455-290-026-000	3056 DEMPSEY DR	455-290-007-000
3065 WALCOTT WY	455-300-059-000	116 DEMPSEY CT	455-290-002-000
2909 LAMPARD WY	455-300-039-000	3001 DEMPSEY DR	455-290-014-000
209 VANNEY CT	455-300-030-000	140 DEMPSEY CT	455-280-007-000
3097 WALCOTT WY	455-300-062-000	6400 BASELINE RD	017-151-035-000
3080 WALCOTT WY	455-300-048-000	6300 BASELINE RD	017-151-044-000
3041 BEARDSLEY WY	455-290-031-000	3200 PLEASANT GROVE BL	496-010-001-000
3032 WALCOTT WY	455-300-054-000	2801 WESTBROOK BL	496-020-014-000
3777 MINERS RAVINE DR	455-260-010-000	5480 PHILLIP RD	017-101-017-000
3056 WALCOTT WY	455-300-051-000	1700 WESTBROOK BL	496-100-010-000
201 VANNEY CT	455-300-029-000	5500 BASELINE RD	017-151-026-000
3001 WALCOTT WY	455-300-068-000	1601 WESTBROOK BL	017-151-016-000
225 VANNEY CT	455-300-032-000	2200 WESTBROOK BL	496-030-012-000
3016 WALCOTT WY	455-300-056-000	6810 FIDDYMENT RD	017-151-033-000
3017 BEARDSLEY WY	455-290-028-000	6100 BASELINE RD	017-151-046-000
3073 WALCOTT WY	455-300-060-000	3351 PLEASANT GROVE BL	496-100-014-000
108 DEMPSEY CT	455-290-003-000	5000 BASELINE RD	017-151-029-000
1853 DELLA VERONA DR	484-190-053-000	1640 WESTBROOK BL	017-151-011-000
132 DEMPSEY CT	455-280-008-000	1500 WESTBROOK BL	017-151-015-000
8160 SIERRA COLLEGE BL	048-021-056-000	5400 BASELINE RD	017-151-027-000

6360 BASELINE RD	017-151-010-000	2505 PLEASANT GROVE BL	490-300-027-000
2600 WESTBROOK BL	496-020-033-000	4120 WEATHERVANE WY	492-130-034-000
5480 PHILLIP RD	017-101-016-000	1859 VERRAZONA DR	484-213-001-000
1600 WESTBROOK BL	017-151-013-000	1796 VIGNOLIA LP	484-211-005-000
2800 WESTBROOK BL	496-020-032-000	1858 VERRAZONA DR	484-212-025-000
1620 WESTBROOK BL	017-151-012-000	1764 VIGNOLIA LP	484-211-001-000
3041 VILLAGE CENTER DR	490-258-010-000	1812 VIGNOLIA LP	484-211-007-000
1451 BLUE OAKS BL	017-230-066-000	1813 VIGNOLIA LP	484-212-001-000
609 SAINT ARMEL PL	482-440-034-000	1772 VIGNOLIA LP	484-211-002-000
116 BRIARTHORNE CT	492-130-046-000	1899 VERRAZONA DR	484-213-006-000
4051 PARKLAND WY	492-050-033-000	1882 VERRAZONA DR	484-212-022-000
4153 WEATHERVANE WY	492-130-041-000	1828 VIGNOLIA LP	484-211-009-000
4289 WEATHERVANE WY	492-120-030-000	2553 PLEASANT GROVE BL	490-300-014-000
4136 WEATHERVANE WY	492-130-036-000	2489 PLEASANT GROVE BL	490-300-029-000
5250 PHILLIP RD	017-101-012-000	2529 PLEASANT GROVE BL	490-300-017-000
1431 BLUE OAKS BL	017-230-065-000	1875 VERRAZONA DR	484-213-003-000
437 RIVERSIDE AV	014-251-015-000	2513 PLEASANT GROVE BL	490-300-026-000
4137 WEATHERVANE WY	492-130-043-000	1788 VIGNOLIA LP	484-211-004-000
1345 MARSEILLE LN	482-380-094-000	1867 VERRAZONA DR	484-213-002-000
10198 FOOTHILLS BL	017-250-076-000	1820 VIGNOLIA LP	484-211-008-000
617 SAINT ARMEL PL	482-440-035-000	1914 VERRAZONA DR	484-212-018-000
4268 SHORTHORN WY	492-130-018-000	4128 WEATHERVANE WY	492-130-035-000
3033 VILLAGE CENTER DR	490-258-009-000	1891 VERRAZONA DR	484-213-005-000
4281 WEATHERVANE WY	492-120-031-000	2545 PLEASANT GROVE BL	490-300-015-000
4161 WEATHERVANE WY	492-130-040-000	4112 WEATHERVANE WY	492-130-033-000
5730 PHILLIP RD	017-101-007-000	1866 VERRAZONA DR	484-212-024-000
108 BRIARTHORNE CT	492-130-045-000	2497 PLEASANT GROVE BL	490-300-028-000
6000 PHILLIP RD	017-101-009-000	1997 VIGNOLIA LP	484-213-013-000
5490 PHILLIP RD	017-101-013-000	1780 VIGNOLIA LP	484-211-003-000
1357 PIPER PL	482-430-009-000	2561 PLEASANT GROVE BL	490-300-013-000
625 SAINT ARMEL PL	482-440-036-000	4104 WEATHERVANE WY	492-130-032-000
4145 WEATHERVANE WY	492-130-042-000	1804 VIGNOLIA LP	484-211-006-000
10040 DIAMOND CREEK BL	017-117-071-000	1907 VERRAZONA DR	484-213-007-000
125 BRIARTHORNE CT	492-130-047-000	1104 ROTHBURY LN	490-300-035-000
3025 VILLAGE CENTER DR	490-258-008-000	3671 COPPERLEAF ST	456-320-013-000
4144 WEATHERVANE WY	492-130-037-000	1470 ROCKY RIDGE DR	
5000 PHILLIP RD	017-101-014-000	8994 WASHINGTON BL	
335 ALTA VISTA AV	011-172-007-000	1484 STONE POINT DR	
1608 MARSEILLE LN	482-414-038-000	1110 WINDING CREEK RD	
100 BRIARTHORNE CT	492-130-044-000	258 GIBSON DR	
101 BRIARTHORNE CT	492-130-050-000	1521 EUREKA RD	
2482 PLEASANT GROVE BL	490-258-006-000	3101 VILLAGE PLAZA DR	
1874 VERRAZONA DR	484-212-023-000	1021 RESERVE DR	
2537 PLEASANT GROVE BL	490-300-016-000	7031 GALILEE RD	
1930 VERRAZONA DR	484-212-016-000	3450 N HAYDEN PW	
1883 VERRAZONA DR	484-213-004-000	109 FIG ST	

2700 WRINGER DR	3065 DEMPSEY DR	
165 DIAMOND CREEK PL	3065 BEARDSLEY WY	
999 RESERVE DR	3991 DOUGLAS BL	
3100 VILLAGE CENTER DR	3057 DEMPSEY DR	
5000 UPLAND DR	5200 BASELINE RD	
2001 LENDELL LN	5700 BASELINE RD	
5333 FIDDYMENT RD	6874 FIDDYMENT RD	
2030 LENDELL LN	2900 WESTBROOK BL	
1581 PARKSIDE WY	6844 FIDDYMENT RD	
10551 FAIRWAY DR	5484 PHILLIP RD	
1001 PORTER DR	5800 BASELINE RD	
1550 PARKSIDE WY	3001 PLEASANT GROVE BL	
4950 FIDDYMENT RD	3201 PLEASANT GROVE BL	
2001 PRAIRIE TOWN WY	6850 FIDDYMENT RD	
1091 ROSEVILLE PW	2700 WESTBROOK BL	
1901 PFE RD	2901 PLEASANT GROVE BL	
8180 SIERRA COLLEGE BL	6824 FIDDYMENT RD	
6070 WOODCREEK OAKS BL	2500 WESTBROOK BL	
291 CONFERENCE CENTER DR	4301 WESTPARK DR	
2031 LENDELL LN	3101 PLEASANT GROVE BL	
2000 PRAIRIE TOWN WY	6800 FIDDYMENT RD	
501 N SUNRISE AV	2750 WESTBROOK BL	
8400 WOODCREEK OAKS BL	6834 FIDDYMENT RD	
4140 BRICK MASON CI	4661 WESTPARK DR	
1017 RESERVE DR	4129 WEATHERVANE WY	
2050 NETTLETON DR	2232 DORRINGTON DR	
304 WASHINGTON BL	4105 WEATHERVANE WY	
4150 CREAMERY WY	1773 VIGNOLIA LP	
1445 EUREKA RD	1765 VIGNOLIA LP	
1051 PORTER DR	1749 VIGNOLIA LP	
8401 WASHINGTON BL	232 SUMMER BREEZE CT	456-310-011-000
2000 WINDING CREEK RD	1112 ROTHBURY LN	490-300-034-000
5050 FIDDYMENT RD	2577 PLEASANT GROVE BL	490-300-011-000
7400 SIERRA COLLEGE BL	2409 PLEASANT GROVE BL	490-300-046-000
4000 WHEELRIGHT WY	1176 ROTHBURY LN	490-300-019-000
300 BASSILICA CT	3662 COPPERLEAF ST	456-320-021-000
3040 LENNON DR	3655 COPPERLEAF ST	456-320-011-000
3136 LENNON DR	1095 AMINGTON DR	017-151-022-000
3160 LENNON DR	3686 COPPERLEAF ST	456-320-018-000
3184 LENNON DR	1168 ROTHBURY LN	490-300-020-000
2900 LAMPARD WY	3593 MINERS RAVINE DR	456-310-016-000
3080 LENNON DR	1088 ROTHBURY LN	490-300-037-000
2940 LAMPARD WY	2585 PLEASANT GROVE BL	490-300-010-000
3850 MINERS RAVINE DR	308 MINERS RAVINE CT	456-320-024-000
3000 WALCOTT WY	224 SUMMER BREEZE CT	456-310-012-000
1844 VERRAZONA DR	1152 ROTHBURY LN	490-300-022-000

3569 MINERS RAVINE DR	456-320-030-000	1008 TERESA PL	482-340-061-000
1136 ROTHBURY LN	490-300-024-000	1109 LONDON PL	482-340-080-000
3670 COPPERLEAF ST	456-320-020-000	1272 LAVANDE DR	482-340-060-000
1144 ROTHBURY LN	490-300-023-000	216 SUMMER BREEZE CT	456-310-013-000
3553 MINERS RAVINE DR	456-320-028-000	1017 SWEET PEA PL	482-340-071-000
301 MINERS RAVINE CT	456-320-022-000	1108 LONDON PL	482-340-075-000
2401 PLEASANT GROVE BL	490-300-047-000	1256 LAVANDE DR	482-340-054-000
316 MINERS RAVINE CT	456-320-023-000	1016 SWEET PEA PL	482-340-068-000
1184 ROTHBURY LN	490-300-018-000	1080 PROVENCE VILLAGE DR	482-340-039-000
3663 COPPERLEAF ST	456-320-012-000	1000 PROVENCE VILLAGE DR	482-340-032-000
1096 ROTHBURY LN	490-300-036-000	1032 BROKEN SPOKE LN	492-150-012-000
1160 ROTHBURY LN	490-300-021-000	1208 TURIN PL	482-340-050-000
2569 PLEASANT GROVE BL	490-300-012-000	1125 PARIS DR	482-340-052-000
3678 COPPERLEAF ST	456-320-019-000	108 CACTUS CT	492-140-009-000
3694 COPPERLEAF ST	456-320-017-000	109 CACTUS CT	492-140-005-000
300 MINERS RAVINE CT	456-320-025-000	101 CACTUS CT	492-140-004-000
3561 MINERS RAVINE DR	456-320-029-000	1008 BROKEN SPOKE LN	492-150-042-000
2417 PLEASANT GROVE BL	490-300-045-000	1024 PROVENCE VILLAGE DR	482-340-035-000
2474 PLEASANT GROVE BL	490-258-007-000	1109 WIND PL	482-340-058-000
1128 ROTHBURY LN	490-300-025-000	1216 TURIN PL	482-340-049-000
1116 PARIS DR	482-340-055-000	1101 WIND PL	482-340-059-000
1072 PROVENCE VILLAGE DR	482-430-003-000	100 CACTUS CT	492-140-010-000
1100 LONDON PL	482-340-074-000	1216 LAVANDE DR	482-340-044-000
11 WHYTE AV	471-050-007-000	1309 DURANCE PL	482-340-047-000
1125 LONDON PL	482-340-078-000	1096 PROVENCE VILLAGE DR	482-340-041-000
1016 TERESA PL	482-340-062-000	124 CACTUS CT	492-140-007-000
1116 LONDON PL	482-340-076-000	1056 BROKEN SPOKE LN	492-150-009-000
1124 LONDON PL	482-340-077-000	216 REBEL CT	492-140-017-000
1117 LONDON PL	482-340-079-000	2096 CATTLEDRIIVE WY	492-150-028-000
1257 LAVANDE DR	482-340-081-000	1208 LAVANDE DR	482-340-043-000
1225 MANDY PL	482-340-086-000	1048 BROKEN SPOKE LN	492-150-010-000
1117 PARIS DR	482-340-053-000	1040 PROVENCE VILLAGE DR	482-340-037-000
1025 SWEET PEA PL	482-340-070-000	1301 DURANCE PL	482-340-046-000
1100 PARIS DR	482-340-038-000	116 CACTUS CT	492-140-008-000
1109 PARIS DR	482-430-004-000	1240 LAVANDE DR	482-340-051-000
1108 PARIS DR	482-340-056-000	1024 BROKEN SPOKE LN	492-150-013-000
1009 SWEET PEA PL	482-340-072-000	1016 PROVENCE VILLAGE DR	482-340-034-000
1017 TERESA PL	482-340-063-000	232 REBEL CT	492-140-015-000
1001 TERESA PL	482-340-065-000	208 REBEL CT	492-140-018-000
1008 SWEET PEA PL	482-340-067-000	117 CACTUS CT	492-140-006-000
3545 MINERS RAVINE DR	456-320-027-000	1117 WIND PL	482-340-057-000
1024 SWEET PEA PL	482-340-069-000	1104 PROVENCE VILLAGE DR	482-340-042-000
1088 PROVENCE VILLAGE DR	482-340-040-000	1040 BROKEN SPOKE LN	492-150-011-000
1224 MANDY PL	482-340-085-000	1032 PROVENCE VILLAGE DR	482-340-036-000
1009 TERESA PL	482-340-064-000	1317 DURANCE PL	482-340-048-000
3537 MINERS RAVINE DR	456-320-026-000	1016 BROKEN SPOKE LN	492-150-014-000

1224 LAVANDE DR	482-340-045-000	133 RIFLE CT	492-180-017-000
1008 PROVENCE VILLAGE DR	482-340-033-000	108 RIFLE CT	492-180-019-000
2008 CATTLEDRIIVE WY	492-150-039-000	1009 OLD COACH DR	492-180-010-000
2064 CATTLEDRIIVE WY	492-150-032-000	4375 BROOKSTONE DR	496-020-024-000
2057 CATTLEDRIIVE WY	492-150-024-000	1000 VISTA GRANDE BL	017-151-025-000
2016 CATTLEDRIIVE WY	492-150-038-000	100 RIFLE CT	492-180-020-000
2080 CATTLEDRIIVE WY	492-150-030-000	2388 ANGUS RD	492-170-005-000
2701 WESTBROOK BL	496-020-027-000	140 VISTA VERDE CT	492-180-006-000
2033 CATTLEDRIIVE WY	492-150-021-000	117 RIFLE CT	492-180-015-000
2009 CATTLEDRIIVE WY	492-150-018-000	2300 WESTBROOK BL	496-020-034-000
2040 CATTLEDRIIVE WY	492-150-035-000	1101 VISTA VERDE DR	492-180-009-000
1001 BROKEN SPOKE LN	492-140-001-000	1025 OLD COACH DR	492-180-012-000
1080 BROKEN SPOKE LN	492-150-006-000	1088 OLD COACH DR	492-180-048-000
2056 CATTLEDRIIVE WY	492-150-033-000	1056 OLD COACH DR	492-180-047-000
1009 BROKEN SPOKE LN	492-140-002-000	2201 VISTA GRANDE DR	017-151-028-000
2032 CATTLEDRIIVE WY	492-150-036-000	5073 PRAIRIE GRASS WY	492-170-048-000
1017 BROKEN SPOKE LN	492-140-003-000	4040 HAYSTACK WY	492-160-040-000
1072 BROKEN SPOKE LN	492-150-007-000	2396 ANGUS RD	492-170-053-000
333 LASSO CT	492-140-025-000	6016 BARNSIDE PL	492-170-035-000
2025 CATTLEDRIIVE WY	492-150-020-000	4016 HAYSTACK WY	492-160-043-000
2801 WESTBROOK BL	496-020-015-000	3016 OAK TRAIL WY	492-160-022-000
2049 CATTLEDRIIVE WY	492-150-023-000	3040 OAK TRAIL WY	492-160-019-000
2001 CATTLEDRIIVE WY	492-150-017-000	6001 BARNSIDE PL	492-170-038-000
1000 BROKEN SPOKE LN	492-150-041-000	5081 PRAIRIE GRASS WY	492-170-021-000
2072 CATTLEDRIIVE WY	492-150-031-000	5088 PRAIRIE GRASS WY	492-170-030-000
2048 CATTLEDRIIVE WY	492-150-034-000	3009 OAK TRAIL WY	492-160-002-000
2000 CATTLEDRIIVE WY	492-150-040-000	2032 RUSTLER DR	492-190-007-000
1088 BROKEN SPOKE LN	492-150-005-000	3033 OAK TRAIL WY	492-160-005-000
2024 CATTLEDRIIVE WY	492-150-037-000	3000 OAK TRAIL WY	492-160-024-000
4251 BROOKSTONE DR	496-020-022-000	6024 BARNSIDE PL	492-170-034-000
364 LASSO CT	492-140-028-000	3032 OAK TRAIL WY	492-160-020-000
2017 CATTLEDRIIVE WY	492-150-019-000	4032 HAYSTACK WY	492-160-041-000
2041 CATTLEDRIIVE WY	492-150-022-000	6017 BARNSIDE PL	492-170-055-000
1064 BROKEN SPOKE LN	492-150-008-000	3025 OAK TRAIL WY	492-160-004-000
2088 CATTLEDRIIVE WY	492-150-029-000	4008 HAYSTACK WY	492-160-049-000
125 RIFLE CT	492-180-016-000	5017 STETSON ST	492-180-032-000
109 RIFLE CT	492-180-014-000	3008 OAK TRAIL WY	492-160-023-000
116 RIFLE CT	492-180-018-000	3041 OAK TRAIL WY	492-160-006-000
101 RIFLE CT	492-180-013-000	4001 HAYSTACK WY	492-160-025-000
1017 OLD COACH DR	492-180-011-000	2404 ANGUS RD	492-170-052-000
2380 ANGUS RD	492-170-006-000	3017 OAK TRAIL WY	492-160-003-000
4401 WESTPARK DR	496-030-009-000	6033 BARNSIDE PL	492-170-042-000
148 VISTA VERDE CT		6009 BARNSIDE PL	492-170-054-000
5009 STETSON ST	492-180-031-000	5089 PRAIRIE GRASS WY	492-170-022-000
4351 WESTPARK DR	496-030-010-000	4024 HAYSTACK WY	492-160-042-000
117 VISTA VERDE CT	492-180-045-000	3024 OAK TRAIL WY	492-160-021-000

6008 BARNSIDE PL	492-170-036-000	5033 STETSON ST	492-190-015-000
6032 BARNSIDE PL	492-170-033-000	1150 OLD COACH DR	492-010-047-000
3048 OAK TRAIL WY	492-160-018-000	4041 CHUCKWAGON WY	492-190-003-000
4033 HAYSTACK WY	492-160-029-000	2024 RUSTLER DR	492-190-008-000
3073 OAK TRAIL WY	492-160-010-000	1153 OLD COACH DR	492-180-043-000
5097 PRAIRIE GRASS WY	492-170-023-000	3049 OAK TRAIL WY	492-160-007-000
4064 HAYSTACK WY	492-160-037-000	4057 CHUCKWAGON WY	492-190-005-000
4017 HAYSTACK WY	492-160-027-000	4048 CHUCKWAGON WY	492-190-011-000
3057 OAK TRAIL WY	492-160-008-000	5032 STETSON ST	492-190-018-000
3081 OAK TRAIL WY	492-160-011-000	100 VISTA VERDE CT	492-180-001-000
5105 PRAIRIE GRASS WY	492-170-024-000	1145 OLD COACH DR	492-180-042-000
4041 HAYSTACK WY	492-160-030-000	1121 OLD COACH DR	492-180-039-000
5057 PRAIRIE GRASS WY	492-170-018-000	4040 CHUCKWAGON WY	492-190-012-000
3073 AUTUMN LEAVES DR	492-170-001-000	5041 STETSON ST	492-190-016-000
4009 HAYSTACK WY	492-160-026-000	2016 RUSTLER DR	492-190-009-000
5096 PRAIRIE GRASS WY	492-170-050-000	3089 OAK TRAIL WY	492-160-012-000
3081 AUTUMN LEAVES DR	492-170-051-000	109 VISTA VERDE CT	492-180-007-000
5121 PRAIRIE GRASS WY	492-170-026-000	116 VISTA VERDE CT	492-180-003-000
6025 BARNSIDE PL	492-170-041-000	1137 OLD COACH DR	492-180-041-000
5112 PRAIRIE GRASS WY	492-170-027-000	5024 STETSON ST	492-180-034-000
5072 PRAIRIE GRASS WY	492-170-032-000	4049 CHUCKWAGON WY	492-190-004-000
4056 HAYSTACK WY	492-160-046-000	4056 CHUCKWAGON WY	492-190-010-000
5049 PRAIRIE GRASS WY	492-170-017-000	1161 OLD COACH DR	492-180-044-000
6000 BARNSIDE PL	492-170-037-000	101 VISTA VERDE CT	492-180-008-000
5025 PRAIRIE GRASS WY	492-170-014-000	1033 DENNINGTON PL	490-371-030-000
5080 PRAIRIE GRASS WY	492-170-031-000	2235 VILLAGE GREEN DR	490-371-009-000
5104 PRAIRIE GRASS WY	492-170-049-000	3264 VILLAGE CENTER DR	490-371-066-000
5113 PRAIRIE GRASS WY	492-170-025-000	5008 STETSON ST	492-180-036-000
3065 OAK TRAIL WY	492-160-009-000	2032 HONEY CHURCH PL	490-371-039-000
5065 PRAIRIE GRASS WY	492-170-047-000	1009 DENNINGTON PL	490-371-033-000
4072 HAYSTACK WY	492-160-036-000	2219 VILLAGE GREEN DR	490-371-007-000
4025 HAYSTACK WY	492-160-028-000	3112 VERWOOD PL	490-372-048-000
4048 HAYSTACK WY	492-160-047-000	3088 VERWOOD PL	490-372-045-000
4000 HAYSTACK WY	492-160-048-000	2171 VILLAGE GREEN DR	490-371-001-000
5041 PRAIRIE GRASS WY	492-170-016-000	4321 BOB DOYLE DR	490-371-015-000
5017 PRAIRIE GRASS WY	492-170-013-000	2024 HONEY CHURCH PL	490-371-038-000
5049 STETSON ST	492-190-017-000	4313 BOB DOYLE DR	490-371-014-000
5025 STETSON ST	492-180-033-000	2008 HONEY CHURCH PL	490-371-036-000
132 VISTA VERDE CT	492-180-005-000	2048 AVIGNON LN	482-450-033-000
1129 OLD COACH DR	492-180-040-000	2000 HONEY CHURCH PL	490-371-035-000
4065 CHUCKWAGON WY	492-190-006-000	1057 DENNINGTON PL	490-371-027-000
3001 OAK TRAIL WY	492-160-001-000	2000 AVIGNON LN	482-450-027-000
5016 STETSON ST	492-180-035-000	2211 VILLAGE GREEN DR	490-371-006-000
4033 CHUCKWAGON WY	492-190-002-000	2008 AVIGNON LN	482-450-028-000
124 VISTA VERDE CT	492-180-004-000	1049 DENNINGTON PL	490-371-028-000
108 VISTA VERDE CT	492-180-002-000	2033 MANNINGTON PL	490-372-029-000

2227 VILLAGE GREEN DR	490-371-008-000	2241 STANSFIELD DR	496-040-007-000
3064 VERWOOD PL	490-372-042-000	2217 STANSFIELD DR	496-040-010-000
3272 VILLAGE CENTER DR	490-371-065-000	2408 FLAGSTAFF WY	496-040-074-000
1001 DENNINGTON PL	490-371-034-000	508 YUMA CT	496-040-018-000
1025 DENNINGTON PL	490-371-031-000	4096 PAYSON AV	496-040-057-000
2017 AVIGNON LN	482-450-024-000	3017 CHANDLER AV	496-040-036-000
2203 VILLAGE GREEN DR	490-371-005-000	300 CHANDLER CT	496-040-031-000
3072 VERWOOD PL	490-372-043-000	2320 FLAGSTAFF WY	496-040-082-000
2033 AVIGNON LN	482-450-022-000	2392 FLAGSTAFF WY	496-040-076-000
2016 HONEY CHURCH PL	490-371-037-000	2280 STANSFIELD DR	496-040-027-000
1016 OLD COACH DR	492-180-046-000	509 YUMA CT	496-040-024-000
1041 DENNINGTON PL	490-371-029-000	2368 FLAGSTAFF WY	496-040-079-000
4297 BOB DOYLE DR	490-371-012-000	3024 CHANDLER AV	496-040-030-000
1017 DENNINGTON PL	490-371-032-000	2385 FLAGSTAFF WY	496-040-049-000
525 YUMA CT	496-040-022-000	2377 FLAGSTAFF WY	496-040-048-000
5000 FIDDYMENT RD	492-010-052-000	2209 STANSFIELD DR	
2345 FLAGSTAFF WY	496-040-044-000	3009 CHANDLER AV	496-040-037-000
309 WELTON CT	496-050-016-000	4008 PAYSON AV	496-040-068-000
2297 FLAGSTAFF WY	496-040-038-000	4032 PAYSON AV	496-040-065-000
308 WELTON CT	496-050-013-000	2376 FLAGSTAFF WY	496-040-078-000
2321 FLAGSTAFF WY	496-040-041-000	2400 FLAGSTAFF WY	496-040-075-000
5100 FIDDYMENT RD	492-010-055-000	2272 STANSFIELD DR	496-040-026-000
517 YUMA CT	496-040-023-000	2336 FLAGSTAFF WY	496-040-080-000
2305 FLAGSTAFF WY	496-040-039-000	501 YUMA CT	496-040-025-000
316 WELTON CT	496-050-014-000	2312 FLAGSTAFF WY	496-040-083-000
2329 FLAGSTAFF WY	496-040-042-000	4024 PAYSON AV	496-040-066-000
4305 BOB DOYLE DR	490-371-013-000	2384 FLAGSTAFF WY	496-040-077-000
2257 STANSFIELD DR	496-040-005-000	2216 STANSFIELD DR	496-040-015-000
2281 STANSFIELD DR	496-040-002-000	3025 CHANDLER AV	496-040-035-000
3080 VERWOOD PL	490-372-044-000	4088 PAYSON AV	496-040-058-000
2233 STANSFIELD DR	496-040-008-000	3016 CHANDLER AV	496-040-029-000
3096 VERWOOD PL	490-372-046-000	2369 FLAGSTAFF WY	496-040-047-000
2249 STANSFIELD DR	496-040-006-000	2328 FLAGSTAFF WY	496-040-081-000
2273 STANSFIELD DR	496-040-003-000	500 YUMA CT	496-040-017-000
2337 FLAGSTAFF WY	496-040-043-000	4016 PAYSON AV	496-040-067-000
2225 STANSFIELD DR	496-040-009-000	2288 STANSFIELD DR	496-040-028-000
2208 STANSFIELD DR	496-040-014-000	4040 PAYSON AV	496-040-064-000
3104 VERWOOD PL	490-372-047-000	3321 WELTON CI	496-050-002-000
2243 VILLAGE GREEN DR	490-371-010-000	3136 WELTON CI	496-050-065-000
2313 FLAGSTAFF WY	496-040-040-000	3344 WELTON CI	496-050-022-000
300 WELTON CT	496-050-012-000	3160 WELTON CI	496-050-062-000
4289 BOB DOYLE DR	490-371-011-000	3025 WELTON CI	496-050-038-000
2289 STANSFIELD DR	496-040-001-000	3320 WELTON CI	496-050-019-000
317 WELTON CT	496-050-015-000	3216 WELTON CI	496-050-028-000
2224 STANSFIELD DR	496-040-016-000	3144 WELTON CI	496-050-064-000
2265 STANSFIELD DR	496-040-004-000	3329 WELTON CI	

3336 WELTON CI	496-050-021-000	3232 WELTON CI	496-050-030-000
3041 WELTON CI	496-050-040-000	3289 WELTON CI	496-050-006-000
3017 WELTON CI	496-050-037-000	4089 PAYSON AV	496-040-055-000
3008 WELTON CI	496-050-024-000	3017 VILLAGE CENTER DR	
3056 WELTON CI	496-050-067-000	3654 COPPERLEAF ST	
3305 WELTON CI	496-050-004-000	1025 SECRET RAVINE PW	
3040 WELTON CI	496-050-069-000	3552 MINERS RAVINE DR	
3000 WELTON CI	496-050-023-000	1009 SECRET RAVINE PW	
301 WELTON CT	496-050-017-000	1057 SECRET RAVINE PW	
3024 WELTON CI	496-050-071-000	1041 SECRET RAVINE PW	
3208 WELTON CI	496-050-027-000	1041 BROKEN SPOKE LN	
3152 WELTON CI	496-050-063-000	3001 AUTUMN LEAVES DR	
3001 WELTON CI	496-050-035-000	3033 AUTUMN LEAVES DR	
3009 WELTON CI	496-050-036-000	3009 LASSO WY	
401 HOLBROOK CT	496-040-069-000	3017 AUTUMN LEAVES DR	
3033 WELTON CI	496-050-039-000	2222 ANGUS RD	
3313 WELTON CI	496-050-003-000	1025 BROKEN SPOKE LN	
3048 WELTON CI	496-050-068-000	3025 AUTUMN LEAVES DR	
3016 WELTON CI	496-050-072-000	2500 VISTA GRANDE BL	
3312 WELTON CI	496-050-018-000	3000 VISTA GRANDE DR	
3328 WELTON CI	496-050-020-000	3089 AUTUMN LEAVES DR	
3064 WELTON CI	496-050-066-000	2100 VISTA GRANDE DR	
3224 WELTON CI	496-050-029-000	1600 VISTA GRANDE DR	
3049 WELTON CI	496-050-041-000	1101 VISTA GRANDE DR	
400 HOLBROOK CT	496-040-073-000	3100 VISTA GRANDE DR	
3240 WELTON CI	496-050-031-000	2400 WESTBROOK BL	
4065 SONATA WY	496-060-001-000	1501 VISTA GRANDE DR	
3073 WELTON CI	496-050-044-000	3200 VISTA GRANDE DR	
4017 SONATA WY	496-060-007-000	2101 VISTA GRANDE BL	
3184 WELTON CI	496-050-059-000	412 SIXTH ST	
3297 WELTON CI	496-050-005-000	1301 VISTA GRANDE DR	
4041 SONATA WY	496-060-004-000	1800 VISTA GRANDE DR	
3176 WELTON CI	496-050-060-000	3065 AUTUMN LEAVES DR	
3225 WELTON CI	496-050-032-000	5032 PRAIRIE GRASS WY	
3121 WELTON CI	496-050-050-000	2286 ANGUS RD	
3273 WELTON CI	496-050-008-000	5008 PRAIRIE GRASS WY	
3243 WELTON CI	496-050-011-000	5048 PRAIRIE GRASS WY	
4049 SONATA WY	496-060-003-000	1100 VISTA VERDE DR	
4025 SONATA WY	496-060-006-000	2270 ANGUS RD	
3113 WELTON CI	496-050-049-000	2254 ANGUS RD	
3032 WELTON CI	496-050-070-000	2262 ANGUS RD	
3057 WELTON CI	496-050-042-000	3049 AUTUMN LEAVES DR	
3215 WELTON CI	496-050-033-000	3057 AUTUMN LEAVES DR	
3200 WELTON CI	496-050-026-000	2230 ANGUS RD	
3081 WELTON CI	496-050-045-000	2278 ANGUS RD	
3265 WELTON CI	496-050-009-000	2072 RUSTLER DR	

2048 RUSTLER DR		2024 SYMPHONY AV	496-060-028-000
2040 RUSTLER DR		4024 SONATA WY	496-060-023-000
2064 RUSTLER DR		3009 OCTAVE AV	496-060-020-000
3041 AUTUMN LEAVES DR		3033 OCTAVE AV	496-060-017-000
2056 RUSTLER DR		5032 RECITAL WY	496-060-042-000
1008 OLD COACH DR		5008 RECITAL WY	496-060-039-000
1041 OLD COACH DR		4016 SONATA WY	496-060-022-000
1033 OLD COACH DR		2040 SYMPHONY AV	496-060-030-000
1105 OLD COACH DR		3025 OCTAVE AV	496-030-018-000
8601 FOOTHILLS BL		5009 RECITAL WY	496-060-038-000
8901 FOOTHILLS BL		5033 RECITAL WY	496-060-035-000
3008 CHANDLER AV		308 CLASSICAL CT	496-060-012-000
8701 FOOTHILLS BL		2016 SYMPHONY AV	496-060-027-000
2240 STANSFIELD DR		2089 SYMPHONY AV	
4281 BOB DOYLE DR		4032 SONATA WY	496-060-024-000
4049 PAYSON AV		4008 SONATA WY	496-060-021-000
2264 STANSFIELD DR		2081 SYMPHONY AV	
4057 PAYSON AV		2032 SYMPHONY AV	496-060-029-000
2344 FLAGSTAFF WY		3017 OCTAVE AV	496-060-019-000
4017 PAYSON AV		5025 RECITAL WY	496-060-036-000
3088 WELTON CI		7509 CHORUS AV	
3096 WELTON CI		6025 DUET WY	
2000 EAGER AV		7540 CHORUS AV	
3264 WELTON CI		6160 DUET WY	
3272 WELTON CI		6136 DUET WY	
3097 WELTON CI	496-050-047-000	7525 CHORUS AV	
4057 SONATA WY	496-060-002-000	6184 DUET WY	
3065 WELTON CI	496-050-043-000	7533 CHORUS AV	
4033 SONATA WY	496-060-005-000	7516 CHORUS AV	
3089 WELTON CI	496-050-046-000	6033 OPERA WY	496-060-034-000
3192 WELTON CI	496-050-025-000	6017 DUET WY	
3168 WELTON CI	496-050-061-000	6024 DUET WY	
4009 SONATA WY	496-060-008-000	6048 OPERA WY	496-060-054-000
4073 SONATA WY	496-060-061-000	5000 RECITAL WY	496-060-025-000
3257 WELTON CI	496-050-010-000	7549 CHORUS AV	
3281 WELTON CI	496-050-007-000	7532 CHORUS AV	
409 KERSEY CT	496-040-013-000	6048 DUET WY	
3129 WELTON CI	496-050-051-000	7501 CHORUS AV	
3105 WELTON CI	496-050-048-000	6049 OPERA WY	496-060-032-000
5001 RECITAL WY	496-060-026-000	7508 CHORUS AV	
2097 SYMPHONY AV		6040 DUET WY	
6001 OPERA WY	496-060-047-000	6176 DUET WY	
4001 SONATA WY	496-060-009-000	6040 OPERA WY	496-060-053-000
5017 RECITAL WY	496-030-037-000	6016 DUET WY	
2048 SYMPHONY AV	496-060-031-000	7541 CHORUS AV	
5500 ENSEMBLE WY	496-090-029-000	6152 DUET WY	

7517 CHORUS AV		8057 CONCERTO WY	
6009 DUET WY		8032 CONCERTO WY	
6032 OPERA WY	496-060-052-000	708 CADENCE CT	
6033 DUET WY		5565 ENSEMBLE WY	496-090-038-000
7548 CHORUS AV		709 CADENCE CT	
7524 CHORUS AV		8048 CONCERTO WY	
7500 CHORUS AV		8072 CONCERTO WY	
6008 DUET WY		8009 CONCERTO WY	
6168 DUET WY		5557 ENSEMBLE WY	496-090-037-000
6041 OPERA WY	496-060-033-000	5517 ENSEMBLE WY	496-090-032-000
6144 DUET WY		5524 ENSEMBLE WY	496-090-026-000
6032 DUET WY		716 CADENCE CT	
6089 DUET WY		5548 ENSEMBLE WY	496-090-023-000
8097 CONCERTO WY		8049 CONCERTO WY	
6073 DUET WY		5533 ENSEMBLE WY	496-090-034-000
8096 CONCERTO WY		5509 ENSEMBLE WY	496-090-031-000
8120 CONCERTO WY		5572 ENSEMBLE WY	496-090-020-000
6049 DUET WY		8064 CONCERTO WY	
6137 DUET WY		5564 ENSEMBLE WY	496-090-021-000
6161 DUET WY		5540 ENSEMBLE WY	496-090-024-000
6113 DUET WY		5516 ENSEMBLE WY	496-090-027-000
6041 DUET WY		717 CADENCE CT	
6065 DUET WY		5573 ENSEMBLE WY	496-090-039-000
8121 CONCERTO WY		5549 ENSEMBLE WY	496-090-036-000
6153 DUET WY		8040 CONCERTO WY	
8105 CONCERTO WY		5556 ENSEMBLE WY	496-090-022-000
6129 DUET WY		5525 ENSEMBLE WY	496-090-033-000
2121 SYMPHONY AV		8017 CONCERTO WY	
6177 DUET WY		8089 CONCERTO WY	
8112 CONCERTO WY		5501 ENSEMBLE WY	496-090-030-000
6105 DUET WY		8080 CONCERTO WY	
8001 CONCERTO WY		8041 CONCERTO WY	
2113 SYMPHONY AV		5200 MAESTRO WY	496-090-058-000
8088 CONCERTO WY		5508 ENSEMBLE WY	496-090-028-000
6057 DUET WY		5532 ENSEMBLE WY	496-090-025-000
6169 DUET WY		8056 CONCERTO WY	
6081 DUET WY		5137 MAESTRO WY	496-090-018-000
8113 CONCERTO WY		5016 MAESTRO WY	496-090-047-000
8128 CONCERTO WY		5040 MAESTRO WY	496-090-044-000
8104 CONCERTO WY		5065 MAESTRO WY	496-090-009-000
6145 DUET WY		5089 MAESTRO WY	496-090-012-000
6056 DUET WY		5153 MAESTRO WY	496-090-060-000
6121 DUET WY		5041 MAESTRO WY	496-090-006-000
2129 SYMPHONY AV		5017 MAESTRO WY	496-090-003-000
2105 SYMPHONY AV		5008 MAESTRO WY	496-090-048-000
8033 CONCERTO WY		5113 MAESTRO WY	496-090-015-000

5541 ENSEMBLE WY	496-090-035-000	1108 PEORIA WY	496-070-002-000
5081 MAESTRO WY	496-090-011-000	1132 PEORIA WY	496-070-005-000
5216 MAESTRO WY	496-090-056-000	1156 PEORIA WY	496-070-008-000
5032 MAESTRO WY	496-090-045-000	1024 PATAGONIA WY	496-080-008-000
5056 MAESTRO WY	496-090-042-000	1173 PEORIA WY	496-070-016-000
5129 MAESTRO WY	496-090-017-000	1088 PATAGONIA WY	496-070-033-000
5105 MAESTRO WY	496-090-014-000	1049 PATAGONIA WY	496-080-016-000
5217 MAESTRO WY	496-090-068-000	1025 PATAGONIA WY	496-080-013-000
5033 MAESTRO WY	496-090-005-000	1040 PATAGONIA WY	496-080-006-000
5009 MAESTRO WY	496-090-002-000	1148 PEORIA WY	496-070-007-000
5208 MAESTRO WY	496-090-057-000	1064 PATAGONIA WY	496-080-003-000
5057 MAESTRO WY	496-090-008-000	1149 PEORIA WY	496-070-019-000
5232 MAESTRO WY	496-090-054-000	1172 PEORIA WY	496-070-010-000
5121 MAESTRO WY	496-090-016-000	1041 PATAGONIA WY	496-080-015-000
5024 MAESTRO WY	496-090-046-000	508 TEMPE CT	496-080-024-000
5145 MAESTRO WY	496-090-019-000	1016 PATAGONIA WY	496-080-009-000
5072 MAESTRO WY	496-090-040-000	1124 PEORIA WY	496-070-004-000
5048 MAESTRO WY	496-090-043-000	1100 PEORIA WY	496-070-001-000
5097 MAESTRO WY	496-090-013-000	4017 JEROME WY	496-080-019-000
5000 MAESTRO WY	496-090-049-000	1181 PEORIA WY	496-070-015-000
5073 MAESTRO WY	496-090-010-000	3008 YOUNGTOWN AV	496-070-021-000
5224 MAESTRO WY	496-090-055-000	3025 YOUNGTOWN AV	496-070-030-000
5025 MAESTRO WY	496-090-004-000	4025 JEROME WY	496-080-020-000
5209 MAESTRO WY	496-090-067-000	4104 PAYSON AV	496-040-056-000
5161 MAESTRO WY	496-090-061-000	4008 JEROME WY	496-080-030-000
5049 MAESTRO WY	496-090-007-000	4032 JEROME WY	496-080-027-000
5001 MAESTRO WY	496-090-001-000	3024 YOUNGTOWN AV	496-070-023-000
5064 MAESTRO WY	496-090-041-000	4016 JEROME WY	496-080-029-000
500 TEMPE CT	496-080-025-000	2192 SYMPHONY AV	
1072 PATAGONIA WY	496-080-002-000	2168 SYMPHONY AV	
1048 PATAGONIA WY	496-080-005-000	2144 SYMPHONY AV	
1157 PEORIA WY	496-070-018-000	2160 SYMPHONY AV	
1116 PEORIA WY	496-070-003-000	3041 YOUNGTOWN AV	496-070-028-000
1140 PEORIA WY	496-070-006-000	3017 YOUNGTOWN AV	496-070-031-000
1057 PATAGONIA WY	496-080-017-000	2201 SYMPHONY AV	
1033 PATAGONIA WY	496-080-014-000	7097 ENCORE WY	
1164 PEORIA WY	496-070-009-000	2176 SYMPHONY AV	
1008 PATAGONIA WY	496-080-010-000	3040 YOUNGTOWN AV	496-070-025-000
1141 PEORIA WY	496-070-020-000	7145 ENCORE WY	
1056 PATAGONIA WY	496-080-004-000	6193 DUET WY	
1165 PEORIA WY	496-070-017-000	3016 YOUNGTOWN AV	496-070-022-000
1032 PATAGONIA WY	496-080-007-000	2152 SYMPHONY AV	
1017 PATAGONIA WY	496-080-012-000	7105 ENCORE WY	
1080 PATAGONIA WY	496-080-001-000	4024 JEROME WY	496-080-028-000
502 DOUGLAS BL	014-102-028-000	4000 JEROME WY	496-080-031-000
1180 PEORIA WY	496-070-011-000	3033 YOUNGTOWN AV	496-070-029-000

2184 SYMPHONY AV		7064 ENCORE WY	
3032 YOUNGTOWN AV	496-070-024-000	7080 ENCORE WY	
3009 YOUNGTOWN AV	496-070-032-000	9065 QUARTET AV	
7153 ENCORE WY		9041 QUARTET AV	
7209 ENCORE WY		7113 ENCORE WY	
7273 ENCORE WY		7065 ENCORE WY	
7185 ENCORE WY		7089 ENCORE WY	
9017 QUARTET AV		7041 ENCORE WY	
7224 ENCORE WY		6185 DUET WY	
7257 ENCORE WY		7017 ENCORE WY	
7233 ENCORE WY		9016 QUARTET AV	
7200 ENCORE WY		9025 QUARTET AV	
7249 ENCORE WY		9049 QUARTET AV	
9032 QUARTET AV		7032 ENCORE WY	
9056 QUARTET AV		9073 QUARTET AV	
9080 QUARTET AV		7008 ENCORE WY	
7225 ENCORE WY		7056 ENCORE WY	
7201 ENCORE WY		7121 ENCORE WY	
7240 ENCORE WY		7009 ENCORE WY	
9040 QUARTET AV		9096 QUARTET AV	
7216 ENCORE WY		7033 ENCORE WY	
2217 SYMPHONY AV		7048 ENCORE WY	
9064 QUARTET AV		7081 ENCORE WY	
9089 QUARTET AV		9033 QUARTET AV	
7192 ENCORE WY		7072 ENCORE WY	
7281 ENCORE WY		7057 ENCORE WY	
7193 ENCORE WY		9081 QUARTET AV	
9048 QUARTET AV		9088 QUARTET AV	
7208 ENCORE WY		7129 ENCORE WY	
9072 QUARTET AV		7024 ENCORE WY	
7232 ENCORE WY		7000 ENCORE WY	
7217 ENCORE WY		9057 QUARTET AV	
7256 ENCORE WY		7161 ENCORE WY	
9024 QUARTET AV		1109 VISTA VERDE DR	492-210-011-000
7184 ENCORE WY		1149 VISTA VERDE DR	492-210-006-000
7241 ENCORE WY		3025 GOODNIGHT TRAIL DR	492-200-014-000
7265 ENCORE WY		1188 VISTA VERDE DR	492-210-028-000
7177 ENCORE WY		7137 ENCORE WY	
2209 SYMPHONY AV		2009 HACIENDA DR	492-210-026-000
7248 ENCORE WY		1124 VISTA VERDE DR	492-210-014-000
7001 ENCORE WY		1133 VISTA VERDE DR	492-210-008-000
7040 ENCORE WY		1173 VISTA VERDE DR	492-210-003-000
7025 ENCORE WY		1108 VISTA VERDE DR	492-210-012-000
7049 ENCORE WY		1478 BLUE OAKS BL	482-340-012-000
7016 ENCORE WY		1148 VISTA VERDE DR	492-210-017-000
7073 ENCORE WY		1196 VISTA VERDE DR	492-200-009-000

1125 VISTA VERDE DR	492-210-009-000	1236 VISTA VERDE DR	492-200-018-000
1181 VISTA VERDE DR	492-210-002-000	2032 CAPRI DR	459-070-046-000
1140 VISTA VERDE DR	492-210-016-000	2017 CAPRI DR	459-070-040-000
1244 VISTA VERDE DR	492-200-019-000	2040 CAPRI DR	459-070-047-000
2008 HACIENDA DR	492-210-019-000	1509 AVANTI DR	459-070-001-000
3024 GOODNIGHT TRAIL DR	492-200-013-000	1581 AVANTI DR	459-070-009-000
290 CONFERENCE CENTER DR	363-011-086-000	8001 FORT COLLINS WY	
1116 VISTA VERDE DR	492-210-013-000	4065 WYMAN WY	496-170-020-000
7169 ENCORE WY		1557 AVANTI DR	459-070-006-000
1204 VISTA VERDE DR	492-200-010-000	3016 MERCATO WY	459-070-035-000
3009 GOODNIGHT TRAIL DR	492-200-016-000	2033 CAPRI DR	459-070-042-000
1117 VISTA VERDE DR	492-210-010-000	2016 CAPRI DR	459-070-044-000
1180 VISTA VERDE DR	492-210-027-000	1605 AVANTI DR	459-070-012-000
1141 VISTA VERDE DR	492-210-007-000	2080 CAPRI DR	459-070-052-000
1165 VISTA VERDE DR	492-210-004-000	1565 AVANTI DR	459-070-007-000
3017 GOODNIGHT TRAIL DR	492-200-015-000	1541 AVANTI DR	459-070-005-000
1132 VISTA VERDE DR	492-210-015-000	1533 AVANTI DR	459-070-004-000
1197 VISTA VERDE DR	492-200-008-000	2009 CAPRI DR	459-070-039-000
2017 HACIENDA DR	492-210-025-000	1589 AVANTI DR	459-070-010-000
1245 VISTA VERDE DR	492-200-002-000	2088 CAPRI DR	459-070-053-000
4081 WYMAN WY	496-170-022-000	4073 WYMAN WY	496-170-021-000
1157 VISTA VERDE DR	492-210-005-000	1392 GRAND JUNCTION WY	496-120-050-000
1228 VISTA VERDE DR	492-200-017-000	4056 WYMAN WY	496-170-012-000
2016 HACIENDA DR	492-210-020-000	1517 AVANTI DR	459-070-002-000
1400 GRAND JUNCTION WY	496-120-051-000	2064 CAPRI DR	459-070-050-000
3008 GOODNIGHT TRAIL DR	492-200-011-000	3024 MERCATO WY	459-070-034-000
2033 HACIENDA DR	492-210-023-000	8017 FORT COLLINS WY	
4185 VITTORIO DR	459-080-072-000	4072 WYMAN WY	496-170-010-000
2275 WESTBROOK BL	496-030-008-000	1401 GRAND JUNCTION WY	496-020-029-000
1252 VISTA VERDE DR	492-200-020-000	1525 AVANTI DR	459-070-003-000
1221 VISTA VERDE DR	492-200-005-000	2072 CAPRI DR	459-070-051-000
4225 VITTORIO DR	459-080-067-000	1524 AVANTI DR	459-070-038-000
4209 VITTORIO DR	459-080-069-000	1573 AVANTI DR	459-070-008-000
3016 GOODNIGHT TRAIL DR	492-200-012-000	2024 CAPRI DR	459-070-045-000
1205 VISTA VERDE DR	492-200-007-000	4064 WYMAN WY	496-170-011-000
1229 VISTA VERDE DR	492-200-004-000	1597 AVANTI DR	459-070-011-000
2032 HACIENDA DR	492-210-022-000	2048 CAPRI DR	459-070-048-000
2001 PASQUAL DR	459-090-037-000	2025 CAPRI DR	459-070-041-000
2025 HACIENDA DR	492-210-024-000	8009 FORT COLLINS WY	
2024 HACIENDA DR	492-210-021-000	3008 MERCATO WY	459-070-036-000
1189 VISTA VERDE DR	492-210-001-000	3032 MERCATO WY	459-070-033-000
2057 PASQUAL DR	459-090-030-000	7032 ROMA WY	459-080-062-000
1253 VISTA VERDE DR	492-200-001-000	7009 ROMA WY	459-080-056-000
1237 VISTA VERDE DR	492-200-003-000	2121 CAPRI DR	459-080-001-000
1156 VISTA VERDE DR	492-210-018-000	4232 VITTORIO DR	459-080-011-000
1213 VISTA VERDE DR	492-200-006-000	3233 WELTON CI	

401 KERSEY CT	7128 ENCORE WY	
2304 FLAGSTAFF WY	300 CONFERENCE CENTER DR	
6000 DUET WY	310 CONFERENCE CENTER DR	
7556 CHORUS AV	2008 RUSTLER DR	
2017 SYMPHONY AV	1490 BLUE OAKS BL	
4072 SONATA WY	1480 BLUE OAKS BL	
2041 SYMPHONY AV	3033 GOODNIGHT TRAIL DR	
4040 SONATA WY	280 CONFERENCE CENTER DR	
301 CLASSICAL CT	3001 GOODNIGHT TRAIL DR	
5041 RECITAL WY	3032 GOODNIGHT TRAIL DR	
3057 OCTAVE AV	4033 WYMAN WY	
4000 SONATA WY	8016 FORT COLLINS WY	
6001 DUET WY	1451 STONE POINT DR	
2056 SYMPHONY AV	2001 HACIENDA DR	
4064 SONATA WY	4041 WYMAN WY	
2072 SYMPHONY AV	2000 HACIENDA DR	
6092 DUET WY	8008 FORT COLLINS WY	
6104 DUET WY	3000 GOODNIGHT TRAIL DR	
2136 SYMPHONY AV	4001 WYMAN WY	
6080 DUET WY	4009 WYMAN WY	
7557 CHORUS AV	4192 VITTORIO DR	459-080-016-000
2200 SYMPHONY AV	7000 ROMA WY	459-080-058-000
6112 DUET WY	4208 VITTORIO DR	459-080-014-000
6088 DUET WY	2056 CAPRI DR	459-070-049-000
700 CADENCE CT	2153 CAPRI DR	459-080-005-000
8025 CONCERTO WY	2065 CAPRI DR	459-070-055-000
701 CADENCE CT	4201 VITTORIO DR	459-080-070-000
5146 MAESTRO WY	4233 VITTORIO DR	459-080-066-000
5104 MAESTRO WY	4216 VITTORIO DR	459-080-013-000
5112 MAESTRO WY	4256 VITTORIO DR	459-080-008-000
4001 JEROME WY	4184 VITTORIO DR	459-080-017-000
2009 EAGER AV	4240 VITTORIO DR	459-080-010-000
2025 SYMPHONY AV	2137 CAPRI DR	459-080-003-000
1081 PATAGONIA WY	4169 VITTORIO DR	459-080-073-000
2145 SYMPHONY AV	2129 CAPRI DR	459-080-002-000
2185 SYMPHONY AV	4200 VITTORIO DR	459-080-015-000
2169 SYMPHONY AV	7024 ROMA WY	459-080-061-000
1101 PEORIA WY	4248 VITTORIO DR	459-080-009-000
1109 PEORIA WY	2161 CAPRI DR	459-080-006-000
2137 SYMPHONY AV	4193 VITTORIO DR	459-080-071-000
1089 PATAGONIA WY	4176 VITTORIO DR	459-080-018-000
7136 ENCORE WY	4217 VITTORIO DR	459-080-068-000
9097 QUARTET AV	4224 VITTORIO DR	459-080-012-000
7144 ENCORE WY	7016 ROMA WY	459-080-060-000
7264 ENCORE WY	7017 ROMA WY	459-080-055-000
7120 ENCORE WY	7040 ROMA WY	459-080-063-000

7008 ROMA WY	459-080-059-000	208 PADUA PL	459-090-011-000
2169 CAPRI DR	459-080-007-000	116 NAPLES PL	459-090-002-000
2145 CAPRI DR	459-080-004-000	2041 PASQUAL DR	459-090-032-000
7041 ROMA WY	459-080-052-000	2049 PASQUAL DR	459-090-031-000
6040 PALERMO WY	459-080-049-000	209 PADUA PL	459-090-015-000
4064 VITTORIO DR	459-090-055-000	2016 PASQUAL DR	459-090-040-000
2065 PASQUAL DR	459-090-029-000	1057 DOLCE LN	459-090-048-000
4120 VITTORIO DR	459-080-024-000	2064 PASQUAL DR	459-090-043-000
2088 PASQUAL DR	459-090-046-000	101 NAPLES PL	459-090-008-000
6032 PALERMO WY	459-080-048-000	2033 PASQUAL DR	459-090-033-000
6017 PALERMO WY	459-080-041-000	108 NAPLES PL	459-090-003-000
5024 STROZZI WY	459-080-033-000	201 PADUA PL	459-090-016-000
5008 STROZZI WY	459-080-031-000	117 NAPLES PL	459-090-006-000
4072 VITTORIO DR	459-080-029-000	2000 PASQUAL DR	459-090-038-000
4144 VITTORIO DR	459-080-021-000	2072 PASQUAL DR	459-090-044-000
5048 STROZZI WY	459-080-036-000	224 PADUA PL	459-090-009-000
5000 STROZZI WY	459-080-030-000	1000 DOLCE LN	459-090-057-000
6008 PALERMO WY	459-080-045-000	2024 PASQUAL DR	459-090-041-000
6041 PALERMO WY	459-080-038-000	2025 PASQUAL DR	459-090-034-000
5032 STROZZI WY	459-080-034-000	200 PADUA PL	459-090-012-000
2089 PASQUAL DR	459-090-026-000	1025 DOLCE LN	459-090-052-000
2073 PASQUAL DR	459-090-028-000	1049 DOLCE LN	459-090-049-000
4136 VITTORIO DR	459-080-022-000	217 PADUA PL	459-090-014-000
6009 PALERMO WY	459-080-042-000	124 NAPLES PL	459-090-001-000
2097 PASQUAL DR	459-090-025-000	2008 PASQUAL DR	459-090-039-000
4112 VITTORIO DR	459-080-025-000	100 NAPLES PL	459-090-004-000
4088 VITTORIO DR	459-080-027-000	1009 DOLCE LN	459-090-054-000
6033 PALERMO WY	459-080-039-000	109 NAPLES PL	459-090-007-000
5016 STROZZI WY	459-080-032-000	2032 PASQUAL DR	459-090-042-000
4056 VITTORIO DR	459-090-056-000	2105 PASQUAL DR	459-090-024-000
4080 VITTORIO DR	459-080-028-000	216 PADUA PL	459-090-010-000
5040 STROZZI WY	459-080-035-000	2080 PASQUAL DR	459-090-045-000
6025 PALERMO WY	459-080-040-000	2009 PASQUAL DR	459-090-036-000
6048 PALERMO WY	459-080-050-000	2380 CASTLE PINES WY	496-120-037-000
6016 PALERMO WY	459-080-046-000	2324 CASTLE PINES WY	496-110-004-000
6024 PALERMO WY	459-080-047-000	7033 ROMA WY	459-080-053-000
4128 VITTORIO DR	459-080-023-000	2316 CASTLE PINES WY	496-110-005-000
6049 PALERMO WY	459-080-037-000	1352 GRAND JUNCTION WY	496-120-045-000
4104 VITTORIO DR	459-080-026-000	1376 GRAND JUNCTION WY	496-120-048-000
6001 PALERMO WY	459-080-043-000	1041 DOLCE LN	459-090-050-000
2081 PASQUAL DR	459-090-027-000	4049 VITTORIO DR	459-090-063-000
125 NAPLES PL	459-090-005-000	2332 CASTLE PINES WY	496-110-003-000
1065 DOLCE LN	459-090-047-000	2292 CASTLE PINES WY	496-110-008-000
225 PADUA PL	459-090-013-000	6000 PALERMO WY	459-080-044-000
2017 PASQUAL DR	459-090-035-000	2300 CASTLE PINES WY	496-110-007-000
1017 DOLCE LN	459-090-053-000	1344 GRAND JUNCTION WY	496-120-044-000

4160 VITTORIO DR	459-080-020-000	2140 CASTLE PINES WY	496-110-027-000
1033 DOLCE LN	459-090-051-000	2133 CASTLE PINES WY	496-110-037-000
1368 GRAND JUNCTION WY	496-120-047-000	2141 CASTLE PINES WY	496-110-038-000
7056 ROMA WY	459-080-065-000	2164 CASTLE PINES WY	496-110-024-000
4168 VITTORIO DR	459-080-019-000	2165 CASTLE PINES WY	496-110-041-000
2356 CASTLE PINES WY	496-110-001-000	2116 CASTLE PINES WY	496-110-030-000
7048 ROMA WY	459-080-064-000	2260 CASTLE PINES WY	496-110-012-000
7049 ROMA WY	459-080-051-000	2309 CASTLE PINES WY	496-110-047-000
2284 CASTLE PINES WY	496-110-009-000	4193 WYMAN WY	496-130-013-000
7025 ROMA WY	459-080-054-000	4241 WYMAN WY	496-130-019-000
1336 GRAND JUNCTION WY	496-120-043-000	5177 WOOD WY	496-140-013-000
2364 CASTLE PINES WY	496-120-038-000	5153 WOOD WY	496-140-010-000
7001 ROMA WY	459-080-057-000	5144 WOOD WY	496-130-024-000
1384 GRAND JUNCTION WY	496-120-049-000	5113 WOOD WY	496-140-005-000
2308 CASTLE PINES WY	496-110-006-000	5137 WOOD WY	496-140-008-000
2348 CASTLE PINES WY	496-110-002-000	4225 WYMAN WY	496-130-017-000
1360 GRAND JUNCTION WY	496-120-046-000	5120 WOOD WY	496-130-026-000
2381 CASTLE PINES WY	496-110-056-000	5161 WOOD WY	496-140-011-000
2317 CASTLE PINES WY	496-110-048-000	5176 WOOD WY	496-130-020-000
4176 WYMAN WY	496-130-007-000	5160 WOOD WY	496-130-022-000
2156 CASTLE PINES WY	496-110-025-000	4184 WYMAN WY	496-130-006-000
2101 CASTLE PINES WY	496-110-033-000	5088 WOOD WY	496-130-030-000
2357 CASTLE PINES WY	496-110-053-000	4185 WYMAN WY	496-130-012-000
2117 CASTLE PINES WY	496-110-035-000	4201 WYMAN WY	496-130-014-000
2365 CASTLE PINES WY	496-110-054-000	6208 GARLAND WY	496-140-014-000
2333 CASTLE PINES WY	496-110-050-000	5136 WOOD WY	496-130-025-000
2173 CASTLE PINES WY	496-110-042-000	4161 WYMAN WY	496-130-009-000
2108 CASTLE PINES WY	496-110-031-000	4217 WYMAN WY	496-130-016-000
2132 CASTLE PINES WY	496-110-028-000	5105 WOOD WY	496-140-004-000
2172 CASTLE PINES WY	496-110-023-000	4177 WYMAN WY	496-130-011-000
2341 CASTLE PINES WY	496-110-051-000	5129 WOOD WY	496-140-007-000
2149 CASTLE PINES WY	496-110-039-000	5152 WOOD WY	496-130-023-000
2196 CASTLE PINES WY	496-110-020-000	6200 GARLAND WY	496-140-015-000
2125 CASTLE PINES WY	496-110-036-000	5080 WOOD WY	496-130-031-000
2268 CASTLE PINES WY	496-110-011-000	5096 WOOD WY	496-130-029-000
2148 CASTLE PINES WY	496-110-026-000	5169 WOOD WY	496-140-012-000
2301 CASTLE PINES WY	496-110-046-000	5168 WOOD WY	496-130-021-000
2276 CASTLE PINES WY	496-110-010-000	5145 WOOD WY	496-140-009-000
2124 CASTLE PINES WY	496-110-029-000	4209 WYMAN WY	496-130-015-000
2100 CASTLE PINES WY	496-110-032-000	5104 WOOD WY	496-130-028-000
2373 CASTLE PINES WY	496-110-055-000	5121 WOOD WY	496-140-006-000
2109 CASTLE PINES WY	496-110-034-000	4169 WYMAN WY	496-130-010-000
2325 CASTLE PINES WY	496-110-049-000	5112 WOOD WY	496-130-027-000
2180 CASTLE PINES WY	496-110-022-000	6193 GARLAND WY	496-140-036-000
2349 CASTLE PINES WY	496-110-052-000	8329 FORT COLLINS WY	496-150-006-000
4168 WYMAN WY	496-130-008-000	5089 WOOD WY	496-140-002-000

7216 CASTLE ROCK WY	496-150-004-000	7129 CASTLE ROCK WY	496-160-026-000
7192 CASTLE ROCK WY	496-150-001-000	8224 FORT COLLINS WY	496-160-018-000
7200 CASTLE ROCK WY	496-150-002-000	7177 CASTLE ROCK WY	496-160-020-000
6177 GARLAND WY	496-140-034-000	7193 CASTLE ROCK WY	496-150-027-000
7224 CASTLE ROCK WY	496-150-005-000	8201 FORT COLLINS WY	496-160-010-000
8297 FORT COLLINS WY	496-150-010-000	7225 CASTLE ROCK WY	496-150-023-000
6209 GARLAND WY	496-140-038-000	7201 CASTLE ROCK WY	496-150-026-000
8321 FORT COLLINS WY	496-150-007-000	8168 FORT COLLINS WY	496-160-011-000
6120 GARLAND WY	496-140-025-000	7145 CASTLE ROCK WY	496-160-024-000
6160 GARLAND WY	496-140-020-000	8184 FORT COLLINS WY	496-160-013-000
6192 GARLAND WY	496-140-016-000	4016 SILVER PLUME WY	496-160-003-000
6144 GARLAND WY	496-140-022-000	8208 FORT COLLINS WY	496-160-016-000
6176 GARLAND WY	496-140-018-000	7137 CASTLE ROCK WY	496-160-025-000
6152 GARLAND WY	496-140-021-000	7185 CASTLE ROCK WY	496-160-019-000
6128 GARLAND WY	496-140-024-000	8232 FORT COLLINS WY	496-150-018-000
6169 GARLAND WY	496-140-033-000	8209 FORT COLLINS WY	496-160-009-000
6201 GARLAND WY	496-140-037-000	7161 CASTLE ROCK WY	496-160-022-000
8289 FORT COLLINS WY	496-150-011-000	6145 GARLAND WY	496-140-030-000
7184 CASTLE ROCK WY	496-160-006-000	8256 FORT COLLINS WY	496-150-021-000
8313 FORT COLLINS WY	496-150-008-000	7217 CASTLE ROCK WY	496-150-024-000
5081 WOOD WY	496-140-001-000	4000 SILVER PLUME WY	496-160-001-000
7208 CASTLE ROCK WY	496-150-003-000	7009 CASTLE ROCK WY	
6112 GARLAND WY	496-140-026-000	7073 CASTLE ROCK WY	
6153 GARLAND WY	496-140-031-000	8225 FORT COLLINS WY	496-160-007-000
6161 GARLAND WY	496-140-032-000	8105 FORT COLLINS WY	
8305 FORT COLLINS WY	496-150-009-000	8089 FORT COLLINS WY	
6104 GARLAND WY	496-140-027-000	8025 FORT COLLINS WY	
6168 GARLAND WY	496-140-019-000	8113 FORT COLLINS WY	
6185 GARLAND WY	496-140-035-000	8065 FORT COLLINS WY	
5097 WOOD WY	496-140-003-000	8128 FORT COLLINS WY	
6136 GARLAND WY	496-140-023-000	8144 FORT COLLINS WY	
6184 GARLAND WY	496-140-017-000	8104 FORT COLLINS WY	
8192 FORT COLLINS WY	496-160-014-000	8080 FORT COLLINS WY	
7169 CASTLE ROCK WY	496-160-021-000	6101 GARLAND WY	496-020-020-000
8264 FORT COLLINS WY	496-150-022-000	8056 FORT COLLINS WY	
6129 GARLAND WY	496-140-028-000	8249 FORT COLLINS WY	496-150-015-000
7168 CASTLE ROCK WY	496-160-004-000	8241 FORT COLLINS WY	496-150-016-000
8176 FORT COLLINS WY	496-160-012-000	8120 FORT COLLINS WY	
7176 CASTLE ROCK WY	496-160-005-000	8217 FORT COLLINS WY	496-160-008-000
8216 FORT COLLINS WY	496-160-017-000	8096 FORT COLLINS WY	
6137 GARLAND WY	496-140-029-000	8072 FORT COLLINS WY	
8240 FORT COLLINS WY	496-150-019-000	7033 CASTLE ROCK WY	
7209 CASTLE ROCK WY	496-150-025-000	7049 CASTLE ROCK WY	
8200 FORT COLLINS WY	496-160-015-000	7057 CASTLE ROCK WY	
4008 SILVER PLUME WY	496-160-002-000	7025 CASTLE ROCK WY	
7153 CASTLE ROCK WY	496-160-023-000	8081 FORT COLLINS WY	

8057 FORT COLLINS WY		7105 CASTLE ROCK WY	
8064 FORT COLLINS WY		4088 WYMAN WY	496-170-008-000
7041 CASTLE ROCK WY		4112 WYMAN WY	496-170-005-000
8088 FORT COLLINS WY		6049 GARLAND WY	496-180-014-000
7065 CASTLE ROCK WY		3001 TELLURIDE WY	
8040 FORT COLLINS WY		5040 WOOD WY	496-170-017-000
7017 CASTLE ROCK WY		6040 GARLAND WY	496-180-023-000
8233 FORT COLLINS WY	496-150-017-000	6016 GARLAND WY	496-180-026-000
8112 FORT COLLINS WY		4145 WYMAN WY	496-170-027-000
8097 FORT COLLINS WY		6072 GARLAND WY	496-180-019-000
8073 FORT COLLINS WY		6048 GARLAND WY	496-180-022-000
8136 FORT COLLINS WY		6024 GARLAND WY	496-180-025-000
7081 CASTLE ROCK WY		4121 WYMAN WY	496-170-024-000
8049 FORT COLLINS WY		5041 WOOD WY	496-180-033-000
8048 FORT COLLINS WY		5072 WOOD WY	496-170-013-000
7097 CASTLE ROCK WY		5017 WOOD WY	496-180-030-000
6025 GARLAND WY	496-180-011-000	4153 WYMAN WY	496-170-028-000
6009 GARLAND WY	496-180-009-000	6056 GARLAND WY	496-180-021-000
6057 GARLAND WY	496-180-015-000	5001 WOOD WY	496-180-028-000
6033 GARLAND WY	496-180-012-000	6088 GARLAND WY	496-180-017-000
7032 CASTLE ROCK WY		4129 WYMAN WY	496-170-025-000
7121 CASTLE ROCK WY		5073 WOOD WY	496-180-037-000
4128 WYMAN WY	496-170-003-000	4080 WYMAN WY	496-170-009-000
7056 CASTLE ROCK WY		6000 GARLAND WY	496-180-027-000
4104 WYMAN WY	496-170-006-000	5057 WOOD WY	496-180-035-000
7048 CASTLE ROCK WY		5065 WOOD WY	496-180-036-000
7072 CASTLE ROCK WY		5056 WOOD WY	496-170-015-000
7024 CASTLE ROCK WY		5032 WOOD WY	496-170-018-000
6065 GARLAND WY	496-180-016-000	6080 GARLAND WY	496-180-018-000
7113 CASTLE ROCK WY		4137 WYMAN WY	496-170-026-000
6041 GARLAND WY	496-180-013-000	5009 WOOD WY	496-180-029-000
7080 CASTLE ROCK WY		6064 GARLAND WY	496-180-020-000
8152 FORT COLLINS WY		5064 WOOD WY	496-170-014-000
3009 TELLURIDE WY		6032 GARLAND WY	496-180-024-000
4144 WYMAN WY	496-170-001-000	4113 WYMAN WY	496-170-023-000
7008 CASTLE ROCK WY		5024 WOOD WY	496-170-019-000
7089 CASTLE ROCK WY		5048 WOOD WY	496-170-016-000
4120 WYMAN WY	496-170-004-000	4040 WYMAN WY	496-180-002-000
4096 WYMAN WY	496-170-007-000	5049 WOOD WY	496-180-034-000
6017 GARLAND WY	496-180-010-000	2001 MANNINGTON PL	490-372-033-000
8160 FORT COLLINS WY		1153 VOLONNE DR	482-450-046-000
7040 CASTLE ROCK WY		2025 MANNINGTON PL	490-372-030-000
6001 GARLAND WY	496-180-008-000	1433 VOLONNE DR	482-450-069-000
7064 CASTLE ROCK WY		1200 VOLONNE DR	482-450-019-000
3017 TELLURIDE WY		2017 MANNINGTON PL	490-372-031-000
4136 WYMAN WY	496-170-002-000	1424 VOLONNE DR	482-450-063-000

1177 VOLONNE DR	482-450-049-000	1837 CAMINO REAL WY	483-363-022-000
1393 VOLONNE DR	482-450-061-000	2060 CAMINO REAL WY	483-361-012-000
1240 VOLONNE DR	482-450-058-000	1973 CAMINO REAL WY	483-363-032-000
1409 VOLONNE DR	482-450-072-000	1972 CAMINO REAL WY	483-361-021-000
1121 VOLONNE DR	482-450-043-000	2036 CAMINO REAL WY	483-361-013-000
4016 WYMAN WY	496-180-005-000	2012 CAMINO REAL WY	483-361-018-000
1201 VOLONNE DR	482-450-052-000	2157 CAMINO REAL WY	483-363-050-000
4000 WYMAN WY	496-180-007-000	1980 CAMINO REAL WY	483-361-020-000
1169 VOLONNE DR	482-450-048-000	1725 CAMINO REAL WY	483-363-016-000
2056 AVIGNON LN	482-450-034-000	4145 VITTORIO DR	
1441 VOLONNE DR	482-450-068-000	2136 CAPRI DR	
4032 WYMAN WY	496-180-003-000	2160 CAPRI DR	
1193 VOLONNE DR	482-450-051-000	4153 VITTORIO DR	
1417 VOLONNE DR	482-450-071-000	2128 CAPRI DR	
5033 WOOD WY	496-180-032-000	2168 CAPRI DR	
4048 WYMAN WY	496-180-001-000	4089 VITTORIO DR	
1113 VOLONNE DR	482-450-042-000	2112 CAPRI DR	
1440 VOLONNE DR	482-450-065-000	2104 CAPRI DR	
4008 WYMAN WY	496-180-006-000	1064 DOLCE LN	
1392 VOLONNE DR	482-450-062-000	2109 PASQUAL DR	
1185 VOLONNE DR	482-450-050-000	1509 LOVELAND WY	
1401 VOLONNE DR	482-450-073-000	1400 STONE POINT DR	
1449 VOLONNE DR	482-450-067-000	4097 VITTORIO DR	
4024 WYMAN WY	496-180-004-000	1508 LOVELAND WY	
1129 VOLONNE DR	482-450-044-000	1500 LOVELAND WY	
1425 VOLONNE DR	482-450-070-000	1516 LOVELAND WY	
1432 VOLONNE DR	482-450-064-000	4121 VITTORIO DR	
2009 MANNINGTON PL	490-372-032-000	1524 LOVELAND WY	
1161 VOLONNE DR	482-450-047-000	4113 VITTORIO DR	
5025 WOOD WY	496-180-031-000	1501 LOVELAND WY	
1981 CAMINO REAL WY	483-363-033-000	2269 CASTLE PINES WY	
2004 CAMINO REAL WY	483-361-017-000	1517 LOVELAND WY	
2008 ABBY GATE DR	490-290-005-000	1525 LOVELAND WY	
1853 CAMINO REAL WY	483-363-024-000	2516 STANWYCK WY	
2141 CAMINO REAL WY	483-363-048-000	1565 LOVELAND WY	
1001 SWEET PEA PL	482-340-073-000	2508 STANWYCK WY	
2020 CAMINO REAL WY	483-361-015-000	1573 LOVELAND WY	
1845 CAMINO REAL WY	483-363-025-000	1557 LOVELAND WY	
1821 CAMINO REAL WY	483-363-020-000	2524 STANWYCK WY	
2052 CAMINO REAL WY	483-361-011-000	8328 FORT COLLINS WY	
2149 CAMINO REAL WY	483-363-049-000	8336 FORT COLLINS WY	
601 SAINT ARMEL PL	482-440-033-000	2532 STANWYCK WY	
2028 CAMINO REAL WY	483-361-014-000	8337 FORT COLLINS WY	
1485 BLUE OAKS BL	017-230-074-000	3508 NORWOOD WY	
1861 CAMINO REAL WY	483-363-023-000	6121 GARLAND WY	
1989 CAMINO REAL WY	483-363-034-000	3500 NORWOOD WY	

8304 FORT COLLINS WY		133 BOGART CT	
7152 CASTLE ROCK WY		209 VALENTINO CT	
3501 NORWOOD WY		225 VALENTINO CT	
6073 GARLAND WY		208 VALENTINO CT	
3509 NORWOOD WY		7556 ASTAIRE WY	
7096 CASTLE ROCK WY		308 BARRYMORE CT	
5008 WOOD WY		7516 ASTAIRE WY	
2525 STANWYCK WY		233 VALENTINO CT	
2509 STANWYCK WY		7508 ASTAIRE WY	
4105 WYMAN WY		201 VALENTINO CT	
2533 STANWYCK WY		324 BARRYMORE CT	
2517 STANWYCK WY		2017 BOGART WY	
3225 VILLAGE PLAZA DR		141 BOGART CT	
2057 AVIGNON LN		309 BARRYMORE CT	
1408 VOLONNE DR		117 BOGART CT	
2044 CAMINO REAL WY	483-361-010-000	7500 ASTAIRE WY	
2132 CAMINO REAL WY	483-361-001-000	216 VALENTINO CT	
2165 CAMINO REAL WY	483-363-051-000	148 BOGART CT	
1709 CAMINO REAL WY	483-363-014-000	200 VALENTINO CT	
2116 CAMINO REAL WY	483-361-003-000	300 BARRYMORE CT	
2124 CAMINO REAL WY	483-361-002-000	217 VALENTINO CT	
1996 CAMINO REAL WY	483-361-016-000	100 BOGART CT	
1988 CAMINO REAL WY	483-361-019-000	124 BOGART CT	
1717 CAMINO REAL WY	483-363-015-000	149 BOGART CT	
2001 BOGART WY		109 BOGART CT	
2000 BOGART WY		301 BARRYMORE CT	
5118 FIDDYMENT RD	492-010-056-000	325 BARRYMORE CT	
4030 SOLAIRE DR	496-100-003-000	125 BOGART CT	
4051 SOLAIRE DR	496-100-001-000	3016 VERWOOD PL	490-372-036-000
5100 SUMMERFAIRE DR	496-100-008-000	6249 GARLAND WY	
3300 PLEASANT GROVE BL	496-100-013-000	4257 BOB DOYLE DR	490-372-056-000
3401 MARKET ST		6321 GARLAND WY	
3365 PLEASANT GROVE BL	496-100-015-000	1965 PARK OAK DR	456-180-015-000
5050 SUMMERFAIRE DR	496-100-009-000	2056 MANNINGTON PL	490-372-019-000
4351 CRAWFORD PW	492-010-057-000	6281 GARLAND WY	
5481 HOLT PW	492-010-033-000	4241 BOB DOYLE DR	490-372-054-000
317 BARRYMORE CT		6225 GARLAND WY	
132 BOGART CT		4217 BOB DOYLE DR	490-372-051-000
156 BOGART CT		6329 GARLAND WY	
108 BOGART CT		2040 MANNINGTON PL	490-372-017-000
101 BOGART CT		6241 GARLAND WY	
2009 BOGART WY		4249 BOB DOYLE DR	490-372-055-000
140 BOGART CT		6217 GARLAND WY	
316 BARRYMORE CT		6361 GARLAND WY	
116 BOGART CT		2048 MANNINGTON PL	490-372-018-000
224 VALENTINO CT		6337 GARLAND WY	

4225 BOB DOYLE DR	490-372-052-000	3008 VERWOOD PL	490-372-035-000
6289 GARLAND WY		2073 MANNINGTON PL	490-372-024-000
7540 ASTAIRE WY		1001 PINE LOG PL	490-372-011-000
6297 GARLAND WY		2072 MANNINGTON PL	490-372-021-000
2064 MANNINGTON PL	490-372-020-000	2089 MANNINGTON PL	490-372-022-000
6305 GARLAND WY		2016 MANNINGTON PL	490-372-014-000
7532 ASTAIRE WY		2032 MANNINGTON PL	490-372-016-000
4233 BOB DOYLE DR	490-372-053-000	2000 MANNINGTON PL	490-372-012-000
6257 GARLAND WY		3056 VERWOOD PL	490-372-041-000
6313 GARLAND WY		2242 VILLAGE GREEN DR	490-372-058-000
6353 GARLAND WY		2100 FREEDOM WY	017-123-081-000
4265 BOB DOYLE DR	490-372-057-000	2186 VILLAGE GREEN DR	490-372-065-000
4209 BOB DOYLE DR	490-372-050-000	1532 AVANTI DR	459-070-037-000
6265 GARLAND WY		1676 AVANTI DR	459-070-043-000
6233 GARLAND WY		1668 AVANTI DR	459-070-032-000
7524 ASTAIRE WY		2301 FREEDOM WY	017-123-083-000
6345 GARLAND WY		9022 WOODCREEK OAKS BL	017-230-075-000
7548 ASTAIRE WY		100 GERRARD CT	455-260-020-000
6273 GARLAND WY		3792 MINERS RAVINE DR	455-260-019-000
2234 VILLAGE GREEN DR	490-372-059-000	2178 VILLAGE GREEN DR	490-372-066-000
2008 MANNINGTON PL	490-372-013-000	2200 FREEDOM WY	017-123-082-000
3040 VERWOOD PL	490-372-039-000	1281 LAVANDE DR	482-340-066-000
3000 VERWOOD PL	490-372-034-000	9005 WOODCREEK OAKS BL	017-230-076-000
2041 MANNINGTON PL	490-372-028-000	3350 N HAYDEN PW	492-010-053-000
2065 MANNINGTON PL	490-372-025-000	2226 VILLAGE GREEN DR	490-372-060-000
3024 VERWOOD PL	490-372-037-000	1900 BLUE OAKS BL	017-117-047-000
2049 MANNINGTON PL	490-372-027-000	1475 BLUE OAKS BL	017-230-077-000
2170 VILLAGE GREEN DR	490-372-067-000	2218 VILLAGE GREEN DR	490-372-061-000
2194 VILLAGE GREEN DR	490-372-064-000	2201 FREEDOM WY	017-123-084-000
3193 VILLAGE PLAZA DR	490-372-006-000	2000 FREEDOM WY	017-123-080-000
2057 MANNINGTON PL	490-372-026-000	1376 VOLONNE DR	
4201 BOB DOYLE DR	490-372-049-000	1344 VOLONNE DR	
1017 PINE LOG PL	490-372-009-000	1233 VOLONNE DR	
3169 VILLAGE PLAZA DR	490-372-003-000	1257 VOLONNE DR	
2202 VILLAGE GREEN DR	490-372-063-000	1361 VOLONNE DR	
3048 VERWOOD PL	490-372-040-000	1225 VOLONNE DR	
3177 VILLAGE PLAZA DR	490-372-004-000	1249 VOLONNE DR	
1033 PINE LOG PL	490-372-007-000	1273 VOLONNE DR	
2024 MANNINGTON PL	490-372-015-000	1297 VOLONNE DR	
2210 VILLAGE GREEN DR	490-372-062-000	1280 VOLONNE DR	
3185 VILLAGE PLAZA DR	490-372-005-000	1328 VOLONNE DR	
1009 PINE LOG PL	490-372-010-000	1321 VOLONNE DR	
1025 PINE LOG PL	490-372-008-000	1369 VOLONNE DR	
3032 VERWOOD PL	490-372-038-000	1345 VOLONNE DR	
3161 VILLAGE PLAZA DR	490-372-002-000	3000 IVY CREEK LN	
2081 MANNINGTON PL	490-372-023-000	1320 VOLONNE DR	

2048 SYCAMORE GROVE LN

1325 VOLONNE DR

1385 VOLONNE DR

1313 VOLONNE DR

1337 VOLONNE DR

1289 VOLONNE DR

1296 VOLONNE DR

1272 VOLONNE DR

1033 OAKBRIAR CI

1241 VOLONNE DR

1265 VOLONNE DR

1384 VOLONNE DR

4025 VITTORIO DR

459-090-062-000

1336 VOLONNE DR

1329 VOLONNE DR

1217 VOLONNE DR

1288 VOLONNE DR

1377 VOLONNE DR

1353 VOLONNE DR

1041 OAKBRIAR CI

1264 VOLONNE DR

1305 VOLONNE DR

1281 VOLONNE DR

1320 OAKBRIAR CI

1136 OAKBRIAR CI

3024 IVY CREEK LN

1040 OAKBRIAR CI

1280 OAKBRIAR CI

1256 OAKBRIAR CI

1016 OAKBRIAR CI

1024 OAKBRIAR CI

1248 OAKBRIAR CI

1112 OAKBRIAR CI

1344 OAKBRIAR CI

1232 OAKBRIAR CI

1296 OAKBRIAR CI

1128 OAKBRIAR CI

1337 OAKBRIAR CI

1088 OAKBRIAR CI

1224 OAKBRIAR CI

3048 IVY CREEK LN

1272 OAKBRIAR CI

3016 IVY CREEK LN

1080 OAKBRIAR CI

1336 OAKBRIAR CI

3040 IVY CREEK LN

1360 OAKBRIAR CI

1312 OAKBRIAR CI

1288 OAKBRIAR CI

1032 OAKBRIAR CI

1008 OAKBRIAR CI

1264 OAKBRIAR CI

1144 OAKBRIAR CI

1240 OAKBRIAR CI

1120 OAKBRIAR CI

3032 IVY CREEK LN

1096 OAKBRIAR CI

1352 OAKBRIAR CI

1329 OAKBRIAR CI

3008 IVY CREEK LN

1072 OAKBRIAR CI

1328 OAKBRIAR CI

1304 OAKBRIAR CI

1241 OAKBRIAR CI

1064 OAKBRIAR CI

2024 SYCAMORE GROVE LN

3033 IVY CREEK LN

1137 OAKBRIAR CI

1049 OAKBRIAR CI

500 BRIAR POINTE PL

3041 IVY CREEK LN

2033 SYCAMORE GROVE LN

3017 IVY CREEK LN

2040 SYCAMORE GROVE LN

517 BRIAR POINTE PL

2000 SYCAMORE GROVE LN

3009 IVY CREEK LN

2041 SYCAMORE GROVE LN

2017 SYCAMORE GROVE LN

2016 SYCAMORE GROVE LN

1056 OAKBRIAR CI

501 BRIAR POINTE PL

516 BRIAR POINTE PL

3025 IVY CREEK LN

3001 IVY CREEK LN

2049 SYCAMORE GROVE LN

2001 SYCAMORE GROVE LN

1129 OAKBRIAR CI

2025 SYCAMORE GROVE LN

2032 SYCAMORE GROVE LN

509 BRIAR POINTE PL

3049 IVY CREEK LN

508 BRIAR POINTE PL	7192 GREENFORD WY	
2009 SYCAMORE GROVE LN	7120 GREENFORD WY	
1048 OAKBRIAR CI	8048 NORBURY PARK DR	
2008 SYCAMORE GROVE LN	8032 NORBURY PARK DR	
1169 OAKBRIAR CI	8008 NORBURY PARK DR	
7129 GREENFORD WY	7177 GREENFORD WY	
1193 OAKBRIAR CI	7128 GREENFORD WY	
1145 OAKBRIAR CI	8056 NORBURY PARK DR	
7009 GREENFORD WY	4000 SOLAIRE DR	496-100-004-000
400 REDWOOD VILLAGE PL	8097 NORBURY PARK DR	
8080 NORBURY PARK DR	7224 GREENFORD WY	
8096 NORBURY PARK DR	7200 GREENFORD WY	
1161 OAKBRIAR CI	7176 GREENFORD WY	
417 REDWOOD VILLAGE PL	8089 NORBURY PARK DR	
8072 NORBURY PARK DR	8065 NORBURY PARK DR	
7025 GREENFORD WY	8041 NORBURY PARK DR	
7033 GREENFORD WY	8040 NORBURY PARK DR	
1209 OAKBRIAR CI	8016 NORBURY PARK DR	
408 REDWOOD VILLAGE PL	7208 GREENFORD WY	
7153 GREENFORD WY	7184 GREENFORD WY	
1217 OAKBRIAR CI	7152 GREENFORD WY	
7160 GREENFORD WY	8064 NORBURY PARK DR	
7145 GREENFORD WY	7161 GREENFORD WY	
5041 SOUTHBURY DR	7136 GREENFORD WY	
7121 GREENFORD WY	8081 NORBURY PARK DR	
1321 OAKBRIAR CI	4050 SOLAIRE DR	496-100-002-000
1185 OAKBRIAR CI	7185 GREENFORD WY	
317 BEXLEY CT	7112 GREENFORD WY	
2009 DAYBREAK ST	9001 WASHINGTON BL	017-123-085-000
1104 OAKBRIAR CI	8033 NORBURY PARK DR	
416 REDWOOD VILLAGE PL	7168 GREENFORD WY	
7041 GREENFORD WY	8057 NORBURY PARK DR	
401 REDWOOD VILLAGE PL	5016 SOUTHBURY DR	
7137 GREENFORD WY	7056 GREENFORD WY	
7017 GREENFORD WY	7072 GREENFORD WY	
1233 OAKBRIAR CI	7104 GREENFORD WY	
1153 OAKBRIAR CI	7096 GREENFORD WY	
1201 OAKBRIAR CI	5064 SOUTHBURY DR	
8088 NORBURY PARK DR	7080 GREENFORD WY	
1177 OAKBRIAR CI	5032 SOUTHBURY DR	
409 REDWOOD VILLAGE PL	9040 HAVERING DR	
7169 GREENFORD WY	7097 GREENFORD WY	
7216 GREENFORD WY	7008 GREENFORD WY	
8073 NORBURY PARK DR	7032 GREENFORD WY	
8049 NORBURY PARK DR	5088 SOUTHBURY DR	
8024 NORBURY PARK DR	9016 HAVERING DR	

7089 GREENFORD WY
7040 GREENFORD WY
5096 SOUTHBURY DR
7016 GREENFORD WY
5072 SOUTHBURY DR
5048 SOUTHBURY DR
9024 HAVERING DR
7064 GREENFORD WY
7105 GREENFORD WY
7088 GREENFORD WY
5024 SOUTHBURY DR
5056 SOUTHBURY DR
5080 SOUTHBURY DR
9032 HAVERING DR
7000 GREENFORD WY
7024 GREENFORD WY
9008 HAVERING DR
7048 GREENFORD WY
5129 SOUTHBURY DR
301 BEXLEY CT
4081 WATERHOUSE WY
5049 SOUTHBURY DR
4057 WATERHOUSE WY
5112 SOUTHBURY DR
4080 WATERHOUSE WY
5121 SOUTHBURY DR
5128 SOUTHBURY DR
5025 SOUTHBURY DR
5105 SOUTHBURY DR
4041 WATERHOUSE WY
5073 SOUTHBURY DR
5065 SOUTHBURY DR
5144 SOUTHBURY DR
4064 WATERHOUSE WY
5089 SOUTHBURY DR
4073 WATERHOUSE WY
4033 WATERHOUSE WY
4032 WATERHOUSE WY
5017 SOUTHBURY DR
6009 PARKMINSTER WY
5113 SOUTHBURY DR
4049 WATERHOUSE WY
5120 SOUTHBURY DR
4072 WATERHOUSE WY
5152 SOUTHBURY DR
5057 SOUTHBURY DR

5081 SOUTHBURY DR
5033 SOUTHBURY DR
6001 PARKMINSTER WY
4089 WATERHOUSE WY
4065 WATERHOUSE WY
5104 SOUTHBURY DR
4056 WATERHOUSE WY
6160 PARKMINSTER WY
6024 PARKMINSTER WY
6184 PARKMINSTER WY
6153 PARKMINSTER WY
6049 PARKMINSTER WY
316 BEXLEY CT
2400 BLUE OAKS BL
3251 N HAYDEN PW
3241 N HAYDEN PW
1273 LAVANDE DR
3101 N HAYDEN PW
3221 N HAYDEN PW
3250 N HAYDEN PW
5120 FIDDYMENT RD
3000 N HAYDEN PW
3200 N HAYDEN PW
3001 N HAYDEN PW
3025 N HAYDEN PW
2008 BOGART WY
4251 CRAWFORD PW
2700 N HAYDEN PW
4101 CRAWFORD PW
3051 N HAYDEN PW
1564 LOVELAND WY
2891 N HAYDEN PW
4111 CRAWFORD PW
3150 N HAYDEN PW
3100 N HAYDEN PW
2900 N HAYDEN PW
7501 ASTAIRE WY
4350 CRAWFORD PW
3011 N HAYDEN PW
2800 N HAYDEN PW
2450 BLUE OAKS BL
5501 MARKET ST
4250 CRAWFORD PW
4150 CRAWFORD PW
2701 N HAYDEN PW
2801 N HAYDEN PW

4261 CRAWFORD PW
7525 ASTAIRE WY
7533 ASTAIRE WY
7557 ASTAIRE WY
3217 VILLAGE PLAZA DR
7509 ASTAIRE WY
3201 VILLAGE PLAZA DR
3241 VILLAGE PLAZA DR
4273 BOB DOYLE DR
1162 ROSEVILLE PW
2001 FREEDOM WY
1103 ROSEVILLE PW
201 GIBSON DR
1967 WESTBROOK BL
1053 HARVEY WY
1000 SWEET PEA PL
1233 BLUE OAKS BL
8900 WASHINGTON BL
4017 VITTORIO DR
2905 PLEASANT GROVE BL
1391 SECRET RAVINE PW
1972 WESTBROOK BL
4990 FIDDYMENT RD
1135 MARLIN DR
1933 WESTBROOK BL
8960 WASHINGTON BL
5110 FIDDYMENT RD
1012 CABRIS LN
8950 INDUSTRIAL AV
1260 VOLONNE DR
1249 OAKBRIAR CI
1097 OAKBRIAR CI
2057 SYCAMORE GROVE LN
1289 OAKBRIAR CI
1273 OAKBRIAR CI
1081 OAKBRIAR CI
3057 IVY CREEK LN
3056 IVY CREEK LN
2056 SYCAMORE GROVE LN
1121 OAKBRIAR CI
8009 NORBURY PARK DR
7217 GREENFORD WY
7209 GREENFORD WY
9041 HAVERING DR
9048 HAVERING DR
9001 HAVERING DR

9000 HAVERING DR
7001 GREENFORD WY
9049 HAVERING DR
9009 HAVERING DR
7049 GREENFORD WY
5145 SOUTHBURY DR
5153 SOUTHBURY DR
4016 WATERHOUSE WY
5097 SOUTHBURY DR
4048 WATERHOUSE WY
6016 PARKMINSTER WY
6096 PARKMINSTER WY
6113 PARKMINSTER WY
6000 PARKMINSTER WY
6088 PARKMINSTER WY
6064 PARKMINSTER WY
6129 PARKMINSTER WY
6072 PARKMINSTER WY
6073 PARKMINSTER WY
6136 PARKMINSTER WY
6040 PARKMINSTER WY
6048 PARKMINSTER WY
6137 PARKMINSTER WY
6144 PARKMINSTER WY
6120 PARKMINSTER WY
300 BEXLEY CT
6008 PARKMINSTER WY
6145 PARKMINSTER WY
6168 PARKMINSTER WY
6032 PARKMINSTER WY
6057 PARKMINSTER WY
6121 PARKMINSTER WY
308 BEXLEY CT
6056 PARKMINSTER WY
6080 PARKMINSTER WY
6176 PARKMINSTER WY
309 BEXLEY CT
6128 PARKMINSTER WY
6152 PARKMINSTER WY
3272 RADIANT WY
216 MOON CT
3217 RADIANT WY
3265 RADIANT WY
4017 WATERHOUSE WY
2017 DAYBREAK ST
416 BRIGHT CT

3280 RADIANT WY
3256 RADIANT WY
6112 PARKMINSTER WY
401 BRIGHT CT
400 BRIGHT CT
200 MOON CT
417 BRIGHT CT
209 MOON CT
3225 RADIANT WY
3264 RADIANT WY
3281 RADIANT WY
6104 PARKMINSTER WY
3248 RADIANT WY
3273 RADIANT WY
1025 SOLSTICE ST
2001 DAYBREAK ST
409 BRIGHT CT
208 MOON CT
408 BRIGHT CT
4025 WATERHOUSE WY
201 MOON CT
2025 DAYBREAK ST
3320 RADIANT WY
2048 DAYBREAK ST
3296 RADIANT WY
1041 SOLSTICE ST
1057 SOLSTICE ST
2040 DAYBREAK ST
3185 RADIANT WY
501 SUN STAR CT
3304 RADIANT WY
3193 RADIANT WY
3228 RADIANT WY
3208 RADIANT WY
3244 RADIANT WY
2000 DAYBREAK ST
3209 RADIANT WY
2016 DAYBREAK ST
1017 SOLSTICE ST
3232 RADIANT WY
1065 SOLSTICE ST
508 SUN STAR CT
2024 DAYBREAK ST
517 SUN STAR CT
3216 RADIANT WY
1033 SOLSTICE ST

3000 RADIANT WY
2032 DAYBREAK ST
2008 DAYBREAK ST
3288 RADIANT WY
3201 RADIANT WY
3240 RADIANT WY
500 SUN STAR CT
509 SUN STAR CT
3009 RADIANT WY
3177 RADIANT WY
3312 RADIANT WY
3236 RADIANT WY
1049 SOLSTICE ST
3224 RADIANT WY
3200 RADIANT WY
3088 RADIANT WY
3097 RADIANT WY
3145 RADIANT WY
3040 RADIANT WY
3001 RADIANT WY
609 ECLIPSE CT
3160 RADIANT WY
3176 RADIANT WY
3073 RADIANT WY
3016 RADIANT WY
3136 RADIANT WY
2129 RADIANT WY
3064 RADIANT WY
3081 RADIANT WY
608 ECLIPSE CT
3152 RADIANT WY
600 ECLIPSE CT
3104 RADIANT WY
2033 DAYBREAK ST
601 ECLIPSE CT
3048 RADIANT WY
3024 RADIANT WY
3072 RADIANT WY
3137 RADIANT WY
3089 RADIANT WY
3096 RADIANT WY
3168 RADIANT WY
616 ECLIPSE CT
3144 RADIANT WY
3065 RADIANT WY
3008 RADIANT WY

3032 RADIANT WY		5008 GLENWOOD SPRINGS WY	
3056 RADIANT WY		1240 GRAND JUNCTION WY	
3080 RADIANT WY		1296 GRAND JUNCTION WY	
3128 LAMAR WY		5121 GLENWOOD SPRINGS WY	
5161 GLENWOOD SPRINGS WY		2597 MEAD WY	
3112 RADIANT WY		1264 GRAND JUNCTION WY	
3129 LAMAR WY		2604 MEAD WY	
3184 LAMAR WY		1280 GRAND JUNCTION WY	
3113 LAMAR WY		5033 GLENWOOD SPRINGS WY	
3096 LAMAR WY		2581 MEAD WY	
3137 LAMAR WY		2605 MEAD WY	
3161 LAMAR WY		1232 GRAND JUNCTION WY	
3128 RADIANT WY		1256 GRAND JUNCTION WY	
3105 LAMAR WY		1288 GRAND JUNCTION WY	
3160 LAMAR WY		5113 GLENWOOD SPRINGS WY	
3177 LAMAR WY		1208 GRAND JUNCTION WY	
5169 GLENWOOD SPRINGS WY		2612 MEAD WY	
3153 LAMAR WY		5001 GLENWOOD SPRINGS WY	
3176 LAMAR WY		5025 GLENWOOD SPRINGS WY	
3184 RADIANT WY		5145 GLENWOOD SPRINGS WY	
3120 LAMAR WY		2588 MEAD WY	
3152 LAMAR WY		5000 GLENWOOD SPRINGS WY	
3185 LAMAR WY		2565 MEAD WY	
3097 LAMAR WY		2589 MEAD WY	
3120 RADIANT WY		1248 GRAND JUNCTION WY	
3121 LAMAR WY		1224 GRAND JUNCTION WY	
3169 LAMAR WY		5009 GLENWOOD SPRINGS WY	
5177 GLENWOOD SPRINGS WY		2613 MEAD WY	
3145 LAMAR WY		1200 GRAND JUNCTION WY	
3168 LAMAR WY		5032 GLENWOOD SPRINGS WY	
3112 LAMAR WY		4500 BROOKSTONE DR	496-020-025-000
3136 LAMAR WY		5152 GLENWOOD SPRINGS WY	
4141 BRICK MASON CI	492-010-029-000	5080 GLENWOOD SPRINGS WY	
210 TAYLOR ST		5128 GLENWOOD SPRINGS WY	
9000 WASHINGTON BL	363-020-018-000	5104 GLENWOOD SPRINGS WY	
1216 GRAND JUNCTION WY		5040 GLENWOOD SPRINGS WY	
2564 MEAD WY		3009 LAMAR WY	496-120-002-000
1272 GRAND JUNCTION WY		3001 LAMAR WY	496-120-001-000
5041 GLENWOOD SPRINGS WY		5088 GLENWOOD SPRINGS WY	
2621 MEAD WY		4451 BROOKSTONE DR	496-020-016-000
2573 MEAD WY		5176 GLENWOOD SPRINGS WY	
5016 GLENWOOD SPRINGS WY		5056 GLENWOOD SPRINGS WY	
5137 GLENWOOD SPRINGS WY		5064 GLENWOOD SPRINGS WY	
5017 GLENWOOD SPRINGS WY		5120 GLENWOOD SPRINGS WY	
2596 MEAD WY		5144 GLENWOOD SPRINGS WY	
2572 MEAD WY		5168 GLENWOOD SPRINGS WY	

5072 GLENWOOD SPRINGS WY		1328 GRAND JUNCTION WY	496-120-042-000
5096 GLENWOOD SPRINGS WY		3089 LAMAR WY	496-120-012-000
3041 DEMARTINI DR	455-250-005-000	6105 PARKMINSTER WY	
5160 GLENWOOD SPRINGS WY		4088 WATERHOUSE WY	
5024 GLENWOOD SPRINGS WY		6177 PARKMINSTER WY	
4551 BROOKSTONE DR	496-020-026-000	6185 PARKMINSTER WY	
4401 BROOKSTONE DR	496-020-017-000	6033 PARKMINSTER WY	
5048 GLENWOOD SPRINGS WY		1024 SOLSTICE ST	
5136 GLENWOOD SPRINGS WY		2056 DAYBREAK ST	
5112 GLENWOOD SPRINGS WY		6017 PARKMINSTER WY	
3048 LAMAR WY	496-120-017-000	3237 RADIANT WY	
2532 MEAD WY	496-120-033-000	3249 RADIANT WY	
2541 MEAD WY	496-120-028-000	1056 SOLSTICE ST	
3081 LAMAR WY	496-120-011-000	3305 RADIANT WY	
2501 MEAD WY	496-120-023-000	3245 RADIANT WY	
2556 MEAD WY	496-120-031-000	1016 SOLSTICE ST	
3072 LAMAR WY	496-120-015-000	1048 SOLSTICE ST	
3033 LAMAR WY	496-120-005-000	3321 RADIANT WY	
1304 GRAND JUNCTION WY	496-120-039-000	3169 RADIANT WY	
2500 MEAD WY	496-120-036-000	2049 DAYBREAK ST	
3040 LAMAR WY	496-120-018-000	2064 DAYBREAK ST	
3032 LAMAR WY	496-120-019-000	3121 RADIANT WY	
1320 GRAND JUNCTION WY	496-120-041-000	3017 RADIANT WY	
2533 MEAD WY	496-120-027-000	2065 DAYBREAK ST	
2524 MEAD WY	496-120-034-000	3057 RADIANT WY	
3025 LAMAR WY	496-120-004-000	1900 FREEDOM WY	
3088 LAMAR WY	496-120-013-000	3130 LITTLETON LN	
3049 LAMAR WY	496-120-007-000	8950 WASHINGTON BL	
3008 LAMAR WY	496-120-021-000	1700 FREEDOM WY	
3057 LAMAR WY	496-120-008-000	1801 ORCHARD VIEW RD	
2525 MEAD WY	496-120-026-000	3131 LITTLETON LN	
2557 MEAD WY	496-120-030-000	1794 PLEASANT GROVE BL	
3017 LAMAR WY	496-120-003-000	1800 FREEDOM WY	
1312 GRAND JUNCTION WY	496-120-040-000	4025 STARS MORE WY	
3041 LAMAR WY	496-120-006-000	3072 DEMARTINI DR	
2508 MEAD WY	496-120-035-000	3410 N HAYDEN PW	
3073 LAMAR WY	496-120-010-000	4009 STARS MORE WY	
3056 LAMAR WY	496-120-016-000	5081 GLENWOOD SPRINGS WY	
2540 MEAD WY	496-120-032-000	4008 STARS MORE WY	
3016 LAMAR WY	496-120-020-000	5065 GLENWOOD SPRINGS WY	
3000 LAMAR WY	496-120-022-000	4016 STARS MORE WY	
3080 LAMAR WY	496-120-014-000	3073 DEMARTINI DR	
2549 MEAD WY	496-120-029-000	4024 STARS MORE WY	
3065 LAMAR WY	496-120-009-000	4001 STARS MORE WY	
2517 MEAD WY	496-120-025-000	4000 STARS MORE WY	
2509 MEAD WY	496-120-024-000	4017 STARS MORE WY	



COUNCIL COMMUNICATION

CC #: 7469

File #: 0400-04-09-1

Title: Fiddymment Ranch Phase 2 Village F-9A2 - Certificate of Completion

Contact: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.6.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council take the following action:

1. Adopt the attached resolution accepting Fiddymment Ranch Phase 2 Village F-9-A2, CWJ # 140017 as complete.
2. Authorize the City Engineer to execute the Certificate of Completion.

BACKGROUND

The Engineering Division has made final inspection of the above project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications.

FISCAL IMPACT

The actions requested as part of this item have a no impact to the City's General Fund. Construction costs for this project were paid by the Developer.

ECONOMIC DEVELOPMENT / JOBS CREATED

By accepting this project as complete will not directly create new jobs, but rather maintain current employee levels of the developer until such time the project is fully built-out.

ENVIRONMENTAL REVIEW

The Council action of accepting Fiddymment Ranch Phase 2 Village F-9-A2, CWJ#140017 as complete will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15060(c)(2). Adoption of Fiddymment Ranch Phase 2 Village F9-

A2, CWJ#140017 does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Orville Chatterton, Construction Inspector

Kevin Payne, Development Services Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-67

COC

Exhibit A

Final Map

Maintenance Bond

RESOLUTION NO. 16-67

RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE F-9-A2 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION.

BE IT RESOLVED by the Council of the City of Roseville as follows:

1. The "Certificate of Completion" on file in the City Clerk's Department relative to that public work known as the Fiddymment Ranch Phase 2 Village F-9-A2 is hereby approved and the public work accepted.
2. All rights of way and easements as offered on the final map of recorded with Placer County Recorder's Office Book DD of Maps, Page 30 is hereby accepted.
3. The City Engineer is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville, this ____ day of _____, 20 16 , by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

CITY CLERK

AFTER RECORDING RETURN TO:
CITY CLERK
311 VERNON STREET
ROSEVILLE, CA 95678

CERTIFICATE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work known as FIDDYMENT RANCH PHASE 2 VILLAGE F9-A2 Project was completed and accepted by the City of Roseville on _____. The location is indicated on the attached map, marked as Exhibit "A" and incorporated herein by this reference.

The general contractor on said project was **TEICHERT CONSTRUCTION**.

The surety on said project was **A SUBDIVISION MAINTENANCE BOND GUARANTEE AND WARRANTY SECURITY BOND NUMBER 919010, NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA a PA CORPORATION**

MARC STOUT
City Engineer
City of Roseville

ATTEST:

SONIA OROZCO, CITY CLERK

STATE OF CALIFORNIA)
COUNTY OF PLACER)

I, MARC STOUT, being first duly sworn, depose and say: I am the City Engineer of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Certificate of Completion and know its contents and the facts stated therein are true.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

MARC STOUT
City Engineer
City of Roseville

STATE OF CALIFORNIA)
COUNTY OF PLACER)

Subscribed and sworn to (or affirmed) before me on this ____ day of _____, 2016, by _____ proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Notary Public in and for said County and State

RESOLUTION NO.

RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS Fiddymment Ranch Phase 2 Village F-9-A2 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION.

BE IT RESOLVED by the Council of the City of Roseville as follows:

1. The "Certificate of Completion" on file in the City Clerk's Department relative to that public work known as the Fiddymment Ranch Phase 2 Village F-9-A2 is hereby approved and the public work accepted.
2. All rights of way and easements as offered on the final map of recorded with Placer County Recorder's Office Book DD of Maps, Page 30 is hereby accepted.
3. The City Engineer is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville, this ____ day of _____, 2016 , by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

CITY CLERK



COUNCIL COMMUNICATION

CC #: 7466

File #: 0400-04-09-1

Title: Fiddymment Ranch Phase 2 Village F-19A2 - Certificate of Completion

Contact: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.7.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council take the following action:

1. Adopt the attached resolution accepting Fiddymment Ranch Phase 2 Village F-19-A2, CWJ # 140045 as complete.
2. Authorize the City Engineer to execute the Certificate of Completion.

BACKGROUND

The Engineering Division has made final inspection of the above project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications.

FISCAL IMPACT

The actions requested as part of this item have a no impact to the City's General Fund. Construction costs for this project were paid by the Developer.

ECONOMIC DEVELOPMENT / JOBS CREATED

By accepting this project as complete will not directly create new jobs, but rather maintain current employee levels of the developer until such time the project is fully built-out.

ENVIRONMENTAL REVIEW

The Council action of accepting Fiddymment Ranch Phase 2 Village F-19-A2, CWJ#140045 as complete will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15060(c)(2)). Adoption of Fiddymment Ranch Phase 2 Village

F19-A2, CWJ#140045 does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Orville Chatterton, Construction Inspector

Kevin Payne, Development Services Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-64

COC

Exhibit A

Final Map

Maintenance Bond

RESOLUTION NO. 16-64

RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE F-19-A2 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION.

BE IT RESOLVED by the Council of the City of Roseville as follows:

1. The "Certificate of Completion" on file in the City Clerk's Department relative to that public work known as the Fiddymment Ranch Phase 2 Village F-19-A2 is hereby approved and the public work accepted.
2. All rights of way and easements as offered on the final map of recorded with Placer County Recorder's Office Book DD of Maps, Page 31 is hereby accepted.
3. The City Engineer is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville, this ____ day of _____, 20 16 , by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

CITY CLERK

AFTER RECORDING RETURN TO:
CITY CLERK
311 VERNON STREET
ROSEVILLE, CA 95678

CERTIFICATE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work known as FIDDYMENT RANCH PHASE 2 VILLAGE F19-A2 Project was completed and accepted by the City of Roseville on _____. The location is indicated on the attached map, marked as Exhibit "A" and incorporated herein by this reference.

The general contractor on said project was TEICHERT CONSTRUCTION.

The surety on said project was A SUBDIVISION MAINTENANCE BOND GUARANTEE AND WARRANTY SECURITY BOND NUMBER 919011, NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA a PA CORPORATION

MARC STOUT
City Engineer
City of Roseville

ATTEST:

SONIA OROZCO, CITY CLERK

STATE OF CALIFORNIA)
COUNTY OF PLACER)

I, MARC STOUT, being first duly sworn, depose and say: I am the City Engineer of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Certificate of Completion and know its contents and the facts stated therein are true.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

MARC STOUT
City Engineer
City of Roseville

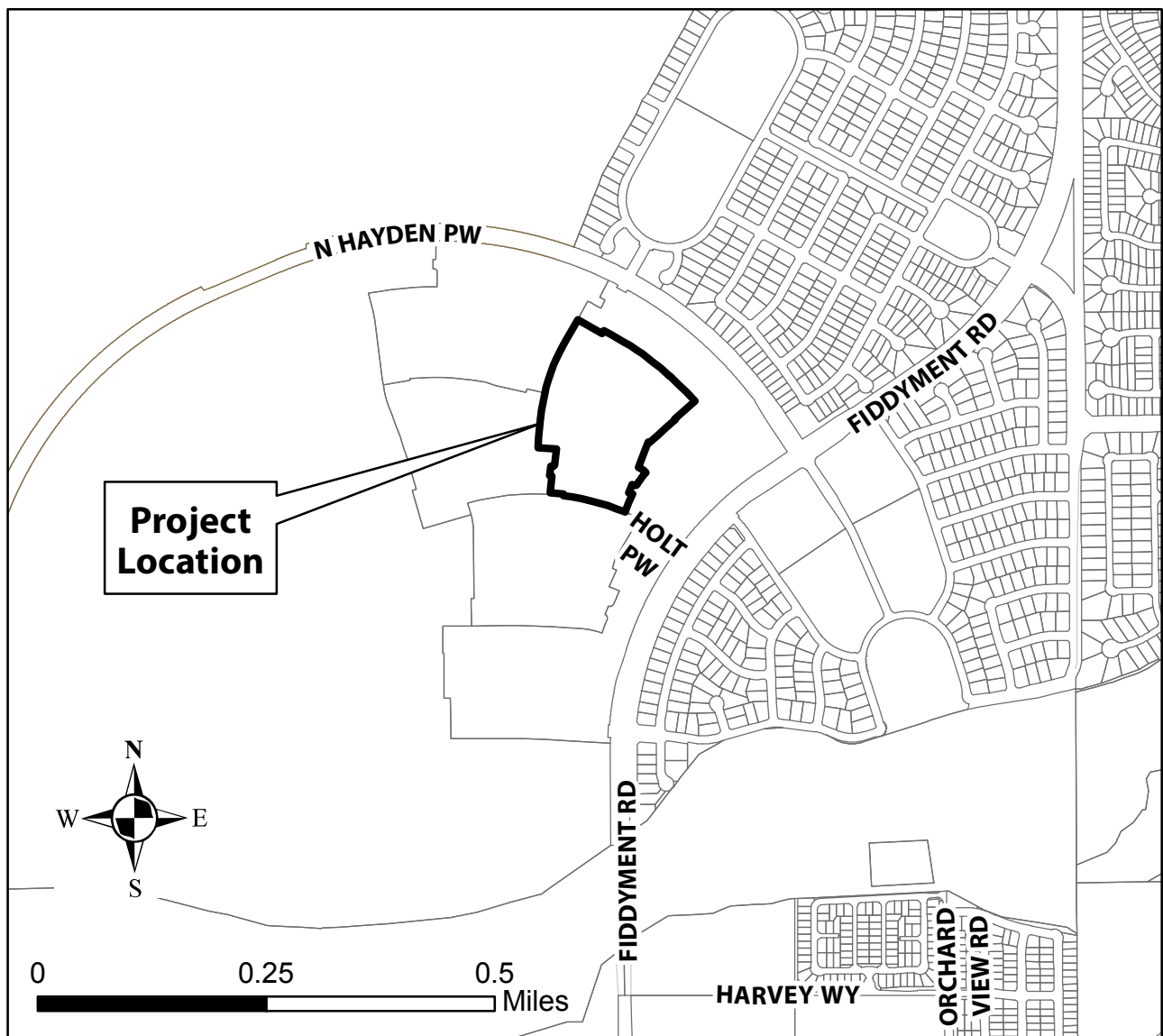
STATE OF CALIFORNIA)
COUNTY OF PLACER)

Subscribed and sworn to (or affirmed) before me on this ____ day of _____, 2016, by _____ proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Notary Public in and for said County and State

EXHIBIT A

City of Roseville Fiddymment Ranch Phase 2 Village F-19-A2





COUNCIL COMMUNICATION

CC #: 7467

File #: 0400-04-09-1

Title: Fiddymment Ranch Phase 2 Village F-19B2 - Certificate of Completion

Contact: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.8.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council take the following action:

1. Adopt the attached resolution accepting Fiddymment Ranch Phase 2 Village F-19-B2, CWJ # 140018 as complete.
2. Authorize the City Engineer to execute the Certificate of Completion.

BACKGROUND

The Engineering Division has made final inspection of the above project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications.

FISCAL IMPACT

The actions requested as part of this item have a no impact to the City's General Fund. Construction costs for this project were paid by the Developer.

ECONOMIC DEVELOPMENT / JOBS CREATED

By accepting this project as complete will not directly create new jobs, but rather maintain current employee levels of the developer until such time the project is fully built-out.

ENVIRONMENTAL REVIEW

The Council action of accepting Fiddymment Ranch Phase 2 Village F-19-B2, CWJ#140018 as complete will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15060(c)(2)). Adoption of Fiddymment Ranch Phase 2 Village

F19-B2, CWJ#140018 does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Orville Chatterton, Construction Inspector

Kevin Payne, Development Services Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-65

COC

Exhibit A

Final Map

Maintenance Bond

RESOLUTION NO. 16-65

RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE F-19-B2 PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION.

BE IT RESOLVED by the Council of the City of Roseville as follows:

1. The "Certificate of Completion" on file in the City Clerk's Department relative to that public work known as the Fiddymment Ranch Phase 2 Village F-19-B2 is hereby approved and the public work accepted.
2. All rights of way and easements as offered on the final map of recorded with Placer County Recorder's Office Book DD of Maps, Page 32 is hereby accepted.
3. The City Engineer is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville, this ____ day of _____, 20 16 , by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

CITY CLERK

AFTER RECORDING RETURN TO:
CITY CLERK
311 VERNON STREET
ROSEVILLE, CA 95678

CERTIFICATE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work known as FIDDYMENT RANCH PHASE 2 VILLAGE F19-B2 Project was completed and accepted by the City of Roseville on _____. The location is indicated on the attached map, marked as Exhibit "A" and incorporated herein by this reference.

The general contractor on said project was **TEICHERT CONSTRUCTION**.

The surety on said project was **A SUBDIVISION MAINTENANCE BOND GUARANTEE AND WARRANTY SECURITY BOND NUMBER 919012, NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA a PA CORPORATION**

MARC STOUT
City Engineer
City of Roseville

ATTEST:

SONIA OROZCO, CITY CLERK

STATE OF CALIFORNIA)
COUNTY OF PLACER)

I, MARC STOUT, being first duly sworn, depose and say: I am the City Engineer of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Certificate of Completion and know its contents and the facts stated therein are true.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

MARC STOUT
City Engineer
City of Roseville

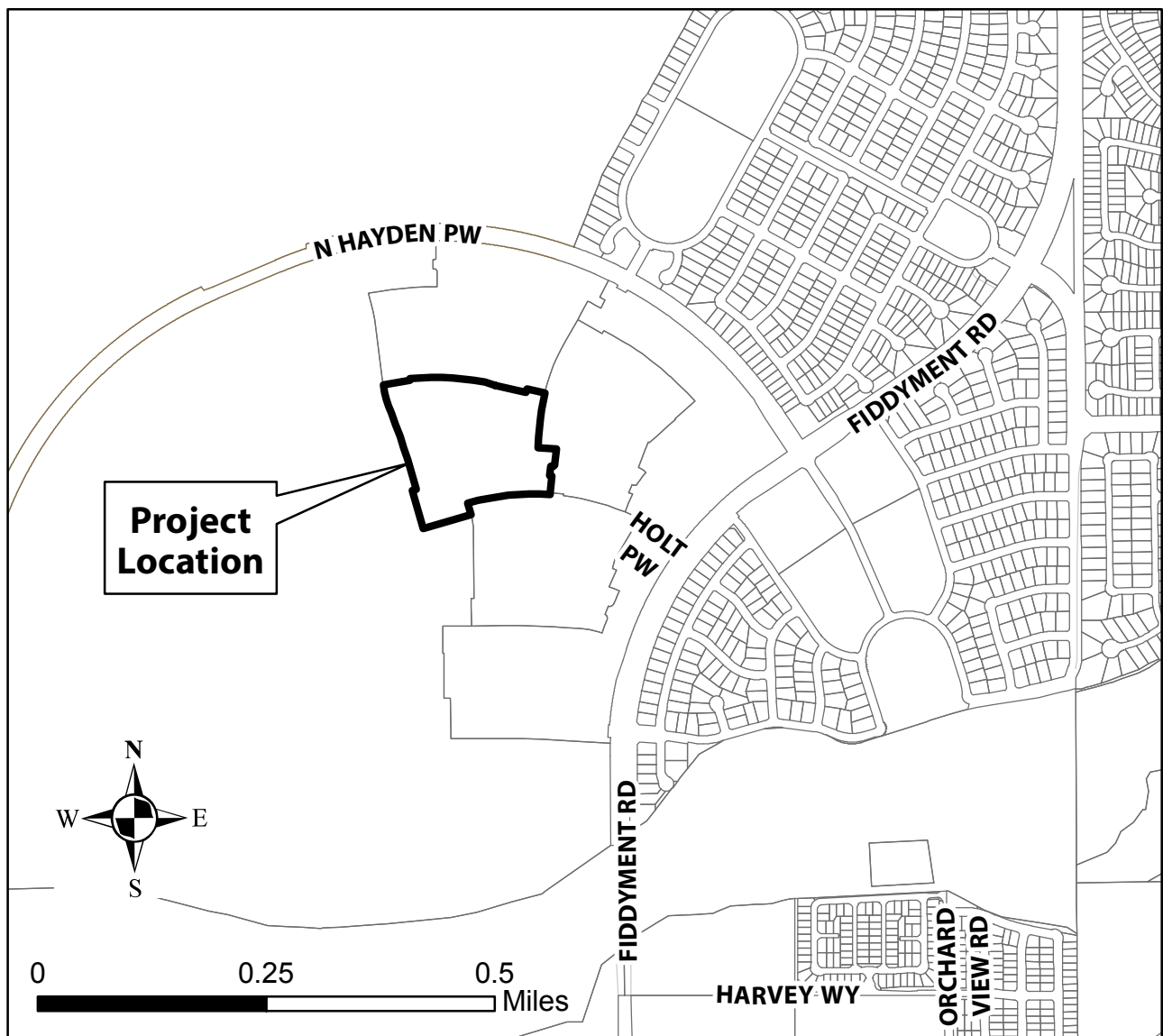
STATE OF CALIFORNIA)
COUNTY OF PLACER)

Subscribed and sworn to (or affirmed) before me on this ____ day of _____, 2016, by _____ proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Notary Public in and for said County and State

EXHIBIT A

City of Roseville Fiddymment Ranch Phase 2 Village F-19-B2





COUNCIL COMMUNICATION

CC #: 7492
File #: 0800-06

Title: Design and Construction Standards 2016 Amendment
Contact: Guy Howes 774-5430 ghowes@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.9.

RECOMMENDATION TO COUNCIL

Adopt the attached Resolution approving the City of Roseville, Design and Construction Standards, 2016 Amendment.

BACKGROUND

In 1993, Council adopted the City's Improvement Standards which encompassed both engineering design requirements and a portion of the construction specifications for all public improvements constructed in the City rights-of-way. Then in August, 1997, the Construction Standards were separated from the design standards and were adopted by City Council (Resolution No. 97-222). The Resolution also authorized the City Engineer to approve future minor revisions to the Standards as deemed necessary. Since that approval, the City Engineer has approved annual revisions to the Construction/Improvement Standards to reflect minor City and State requirements.

In recent years, staff has kept abreast of; current technological advances, methods and materials, procedural enhancements, and general "clean-up" of grammatical corrections, along with providing updates to capture City policy and procedure changes on an annual basis and incorporated them into this document. The forums at which this was accomplished were: The Development Services Department Annual Stakeholder's Meeting, the Building Industry Association (BIA) meetings, and by the City's E-Notify Program on our website.

All modifications in this proposed 2016 Amendment reflect standards currently required of new development and, as identified, will not modify any current developer obligations. In fact, there are several developer cost saving measures that have been incorporated into this document. Additionally, staff continuously monitors construction methods and tries to identify those methods that will help expedite construction, saving time and money, without jeopardizing the quality of improvements.

FISCAL IMPACT

None. The document will be made available on the City's website for customer printing convenience. Printing and binding costs for Staff copies have been budgeted into this fiscal year budgeted funds.

ECONOMIC DEVELOPMENT / JOBS CREATED

By adopting these amended Standards will not directly create new jobs, but rather maintain current employee levels of the development community.

ENVIRONMENTAL REVIEW

Approval of the Design and Construction Standards would not result in a significant environmental effect, the standards would result in protection of a natural resource, in this case water quality, and as such approval qualifies for a Class 7 CEQA Categorical Exemption. Further, future discretionary projects with potentially significant environmental effects that are subject to the Design and Construction Standards would also be subject to project level CEQA review prior to project approval. Consequently, no further CEQA action is required at this time for approval of the Design and Construction Standards.

Respectfully Submitted,

Guy Howes, Senior Engineer

Kevin Payne, Development Services Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-75

Design & Construction Standards - 2016 Amendment

RESOLUTION NO. 16-75

ADOPTING THE REVISED DESIGN/CONSTRUCTION STANDARDS

WHEREAS, in May of 1993, Council adopted the City's Improvement Standards, which encompassed both engineering design requirements and a portion of the construction specifications for all public improvements construction in the City rights-of way; and

WHEREAS, in August 1997, the Council approved a revision to the Improvement Standards to incorporate the City's Construction Standards, and

WHEREAS, in 2007, the Council approved combining the Improvement and Construction Standards into one document and authorized the Director of Public Works/City Engineer to approve future minor revisions to the Standards as deemed necessary; and

WHEREAS, the City Council has reviewed the proposed 2016 Amendment of the Design & Construction Standards, a copy of which is on file with the City Clerk,

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Roseville that the revisions to the Design & Construction Standards are hereby approved and that the Director of Public Works/City Engineer is hereby authorized to approve future minor revisions to the Standards as deemed necessary.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

Design & Construction Standards



January
2016



Development Services Department

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Roseville, CA 95678
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Environmental Utilities Engineering

2005 Hilltop Circle
Roseville, CA 95747
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DESIGN AND CONSTRUCTION STANDARDS

JANUARY 2016

This 2016 edition of the City of Roseville's Design & Construction Standards supersedes the previous editions. The City Council adopted this document in 1997, Resolution 97-222, and since then, annual amendments as well as complete document reprints were completed every three to five years. The last complete reprint was in January, 2013. Consequently, several miscellaneous revisions, minor grammatical clean-ups including technological advancements and procedural enhancements have been updated into this latest edition. All new public right-of-way and public utility easement roadway infrastructure improvements shall comply with these Standards effective March 2, 2016.

Respectfully Submitted,

Marc Stout P.E.
City Engineer

1/26/16
Date

CITY OF ROSEVILLE DESIGN STANDARDS January 2016

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CITY OF ROSEVILLE CONSTRUCTION STANDARDS - CST January 2016

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SECTION 1

PURPOSE AND DEFINITIONS

- 1-1 PURPOSE** - The purpose of City Design Standards is to provide direction in the application of improvements which are to be dedicated to the public and accepted by the City for maintenance or operation, and to provide for coordinated development of those facilities to be used by and for the protection of the public. This includes certain private works, as well as improvements to be installed within existing City rights-of-way and easements. Whereas it is the intent of these Standards to govern all new construction, City staff shall interpret and apply the Standards in a manner which achieves their intent, while encouraging and enabling the redevelopment of infill and vacant parcels especially within the City's Redevelopment Project Area.

These Standards shall apply to, regulate, and guide preparation of traffic impact studies and the design and preparation of plans for construction of streets, highways, alleys, drainage, sewerage, traffic signals, site access, water supply facilities and related public improvements, and shall set guidelines for all private works which involve drainage, grading, trees, and related improvements. The Design Standards have been adopted by the Roseville City Council, and shall be administered by the Development Services, Public Works and Environmental Utility Departments of the City of Roseville.

- 1-2 DESIGN PRACTICE** - Because it is virtually impossible to anticipate all situations that may arise or to prescribe standards applicable to every situation, any items or situations not included in these Design Standards shall be designed in accordance with accepted engineering practice, the City of Roseville Construction Standards, the State of California "Highway Design Manual" and the "California Manual on Uniform Traffic Control Devices", and as specified by the City Engineer.

The City Engineer may require additional standards and/or regulations not inconsistent herewith when deemed necessary to protect the health, safety, and welfare of the public. Questions regarding the Design Standards should be directed to the appropriate engineering staff of the Development Services, Public Works or Environmental Utilities Departments. The City Engineer, Public Works Director or Environmental Utilities Director shall make all interpretations of the Standards. Appeals to the direction of the City Engineer shall be made to the Development Services Director and the City Council.

- 1-3 DEFINITIONS** - Whenever the following terms or titles are used in these standards or in any document or instrument where these standards govern, the intent and meaning shall be as herein defined:

- A. Applicant** - Shall mean the same as the Developer or his Consulting Engineer working on his behalf.
- B. Building Division** - Shall mean the Building Division of the City of Roseville.
- C. City** - Shall mean the City of Roseville and its applicable Departments
- D. City Engineer** - Shall mean the City Engineer of the City of Roseville acting either directly or through the staff of the appropriate Divisions of the Public Works Department, Environmental Utilities Department and the Development Services Department or their authorized representatives.
- E. Community Design Guidelines** - Shall mean the latest edition of the "Community Design Guidelines" adopted by the Roseville City Council, as may be supplemented by Design Guidelines for a given Specific Plan Area.
- F. Construction Standards** - Shall mean the latest edition of the "Design & Construction Standards" adopted by the Roseville City Council and any amendments thereto governing the construction of roads, streets, sanitary sewers, storm drainage, concrete structures, water supply, traffic signals, street lighting and other facilities within the City of Roseville.
- G. Consulting Engineer** - Shall mean any person or persons, firm, partnerships or corporation legally authorized to practice civil, mechanical, or electrical engineering in the State of California who prepares or submits improvement plans and specifications to the Development Services Department of the City of Roseville for approval.
- H. Contractor** - Shall mean any person or persons, firm partnership, corporation, or combination thereof, licensed to perform the type of work involved, who has entered into a contract with any person, corporation or company, or his or their legal representatives, for the construction of any improvement or portions of any improvement within the City of Roseville.
- I. Department of Environmental Utilities** - Shall mean the Department of Environmental Utilities or Environmental Utilities Department of the City of Roseville.

- J. Department of Public Works** - Shall mean the Department of Public Works or Public Works Department of the City of Roseville.
- K. Developer** - Shall mean any persons, firm, partnership, corporation, or combination thereof, financially responsible for the work involved.
- L. Development** - Shall mean the act or process of any construction on properties as well as subdivision improvement.
- M. Development Services Department-** Shall mean the Development Services Department of the City of Roseville.
- M. Engineering Division** - Shall mean the Engineering Division of the City of Roseville, Development Services Department.
- N. Environmental Utilities Director** - Shall mean the Environmental Utilities Director of the City of Roseville acting either directly or through the staff of the appropriate Divisions of the Environmental Utilities Department or their authorized representatives.
- O. Fire Apparatus Access Roads** - Shall mean roads, either public or private, which serve to provide direct access to buildings or portions of buildings hereafter constructed. Said roads shall be designed to the minimum requirements of Roseville Fire Code and chapter 5 and these Standards.
- P. Fire Department** - Shall mean the Fire Department of the City of Roseville.
- Q. Fire Flow** - Shall mean the required flow rate of a water supply, measured at 20 pounds per square inch residual pressure that is available for firefighting. The procedure determining fire-flow requirements for buildings or portions of buildings hereafter constructed shall be in accordance with Roseville Fire Code Appendix III-A.
- R. Fire Prevention Standards** - Shall mean the latest edition of the "Fire Prevention Standards" enforced by the Fire Department in accordance with the Roseville Fire Code, Section 101.4.
- S. Grading Ordinance** - Shall mean the "Grading Ordinance" of the Roseville Municipal Code, Chapter 16.20, as adopted by the City Council of the City of Roseville.
- T. Improvements** - Refers to street work, sidewalk, curb, gutter, driveways, water mains, sanitary sewer, storm drainage, street

lighting, traffic signals, public utilities, landscaping, irrigation, parks, fences and other facilities to be constructed or installed by the Developer within an existing or future public right of way or easement and other improvements which the Development Services Department is responsible for performing plan check or inspection.

- U. Laboratory** - Shall mean any testing agency or testing firm which has been approved by the Department of Public Works or Development Services Department.
- V. California MUTCD** - Shall mean the “California Manual on Uniform Traffic Control Devices” as adopted by the California Department of Transportation, latest edition.
- W. Soils Reports** - Shall mean a report as prepared by any person or persons, firm, partnership, or corporation legally licensed to prepare “Soils Reports” in the State of California.
- X. Standard Drawings** - Shall mean the standard drawings as set forth in the Design Standards and Construction Standards as included herein, approved by the City Engineer and as amended.
- Y. State** - As used in State Specifications shall mean the City of Roseville.
- Z. State Highway Design Manual** - Shall mean the “Highway Design Manual” of the State of California, Department of Transportation, latest edition.
- AA. State Standard Plans** - Shall mean the Standard Plans of the State of California, Department of Transportation, latest edition.
- BB. State Standard Specifications** - Shall mean the “Standard Specifications” of the State of California, Department of Transportation, latest edition.
- CC. State Traffic Manual** - Shall mean the “California Manual on Uniform Traffic Control Devices” of the State of California, Department of Transportation, latest edition.
- DD. Subdivision Ordinance** - Shall mean the “Subdivision Ordinance” of the City Municipal Code, Chapter 18, as adopted by the City Council of the City of Roseville.
- EE. Traffic Plans (Signal Plans)** - Shall mean those plans accepted by the City Engineer for the construction of new or for the modification of existing intersection traffic signals.

- FF. Water Efficient Landscape Requirements** - Shall mean the “Water Efficient Landscape Requirements” of the City Code as adopted by the City Council of the City of Roseville, and any amendments thereto.
- GG. Zoning Ordinance** - Shall mean the “Zoning Ordinance” of the City Code as adopted by the City Council of the City of Roseville.
- HH. Trench Cut Ordinance** - Shall mean the “Trench Cut Ordinance” of the City Code as adopted by the City Council of the City of Roseville.

Section 2

General Requirements

2-1 PLANS BY AN APPROPRIATE ENGINEER - All plans and specifications for improvements, private and public, which are to be accepted for maintenance by the City, and plans and specifications for private on-site drainage and grading, shall be prepared by an engineer licensed in the State of California, of the appropriate branch of engineering covering the work submitted.

2-2 ACCEPTED PLANS - Complete plans and specifications for all proposed streets, street names, bikeways, grading, drainage facilities, sewerage, traffic signals, water distribution systems, industrial developments, commercial developments, and subdivisions, including any necessary dedications, easements, and rights of entry, shall be submitted to the Development Services Engineering Division for approval. This approval shall be substantiated by the signature of the required City representatives and issuance of a permit and to the beginning of construction of any such improvements. The City Engineer shall order any contractor to cease work on any project if said contractor does not have properly approved plans in possession.

The public roadway infrastructure improvements shall be designed and constructed in accordance with these Design and Construction Standards and the latest edition of the City's American Disabilities Act (ADA) Transitions Plan. Should there be any discrepancy between these Standards and the ADA Transition Plan with respect to accessibility, the ADA Transition Plan shall have precedence.

2-3 REFERENCE TO CITY SPECIFICATIONS AND STANDARDS – The following note shall be included on all Improvement Plans:

“All construction and materials shall be in accordance with the latest edition and amendments of the City of Roseville Design & Construction Standards.”

2-4 WORK IN CITY RIGHT OF WAY AND EASEMENTS - The following shall govern work done within City right of way and easements:

A. No work shall be performed within the City rights of way and easements without approved plans and/or an encroachment permit issued by the Development Services Engineering Division. All necessary bonds and insurances shall be approved prior to the approval of the plans or the issuance of an encroachment permit.

B. In lieu of obtaining an encroachment permit, work may also be performed under the conditions of subdivision agreement.

2-5 SUBMISSION OF IMPROVEMENT PLANS - The following are the

procedures and requirements when submitting Improvement Plans to the City of Roseville for review. Incomplete submittals will not be accepted.

Improvement Plans will be accepted only after the following conditions are met:

- A. Development Projects** - The projects, which have been approved by the appropriate City Commission and are not proceeding under appeal or normal process to the City Council, may be submitted after the meeting of Commission which approved the project and after the Conditions of Approval are available from the Planning Division.
- B. Subdivision** - Rough Grading Plans or Improvement Plans, and Parcel Maps or Subdivision Maps may be submitted after approval of the Tentative Map by the approving body and after the Conditions of Approval are available.

The Engineering Division shall act as the lead agency in the submittal process for Improvement Plans. Upon approval of a Tentative Map, initial submittal packages shall be submitted directly to the Engineering Division:

The submittal package shall be submitted as a whole directly to the Engineering Division, per the requirements of the Development Application Form.

New street names, if any, shall be approved by Development Services Business Services Division. Approved street names shall be shown on the plans and a copy of the Approved Street Name Exhibit will be included no later than the second submittal of improvement plans. Failure to submit the approved Street Name Exhibit by the second submittal may delay final plan approval. The street naming process and Street Name Application may be found at: <https://www.roseville.ca.us/addressing>

Once the submittal has been deemed complete by Engineering, the packets will be distributed by the Engineering Division to the appropriate departments. Each department will then review the Improvement Plans and forward comments to the Engineering Division. The time required for each department's review of the plans is dependent on the department's work load at the time of the submittal.

The Developer or his Engineer shall respond directly to the Engineering Division to address each department's comments. The City Engineer will not approve the plans until all other departments have approved the plans, and not until this occurs will construction be permitted to begin.

2-6 SUBMISSION OF DEVELOPMENT PLANS - The following are the Engineering Division's requirements for the submittal of Development Plans for commercial, industrial, and multi-family projects. These plans shall be submitted to the Building Division at the time the applications made for a building permit.

- A.** Five (5) sets of Improvement Plans prepared per the Design & Construction Standards (Including Landscape Plans for non-residential projects).
- B.** One (1) electronic copy of the plan set of the proposed Improvement Plan in .pdf format on a disc or thumb drive. Each subsequent submittal shall include an updated .pdf file for review.
- C.** One (1) copy of the Soils Report for the project (see Section 2-10) and one (1) electronic copy in .pdf format on a disc or thumb drive. Each subsequent submittal shall include an updated .pdf file for review.
- D.** An itemized Engineer's cost estimate for all improvements to be constructed within public rights of way or easements, or any other improvements for which the Development Services Departments or Environmental Utilities Department provides plan check and inspection services (i.e. grading & Stormwater quality). All cost estimates shall include a ten (10) percent contingency. The cost estimate shall also include all public landscaping improvements.
- E.** Payment of fifty (50) percent of plan check and inspection fee deposit, plus the Technology Fee. Fees are based on the engineer's cost estimate in accordance with the Development Services Department Engineering Division's established fee schedule. The fee schedule may be found at: <http://www.roseville.ca.us/civicax/filebank/blobdload.aspx?blobid=2947>
- F.** Two (2) copies of the drainage report indicating method of calculation; two (2) copies of the Stormwater Quality Design and Maintenance Plan; two (2) copies of the site water shed map; and, two (2) copies of the 10 and 100 year storm drain calculations based on Placer County's Storm Drain Manual and the City of Roseville Design and Construction Standards.
- G.** Two (2) copies of the Clerk's Notice of approval for the Use Permit and list of the Conditions of Approval.
- H.** Two (2) copies of the approved Tentative Map.
- I.** For projects with a total disturbed area of less than one (1) acre; submit two (2) copies of an erosion and sedimentation control plan in accordance with Section 11 of these Design & Construction Standards. In lieu of providing a separate plan, this information may be shown on the

Improvement Plan.

- J.** For projects with a total disturbed area equal to or greater than one (1) acre; submit the WDID associated with the project's Storm Water Pollution Prevention Plan (SWPPP). Ensure the WDID status is active and accessible within the State Water Resources Control Board's SMARTS system.
- K.** One (1) AutoCAD file of the project improvements submitted per the ["Digital Submission of Utility Composites"](#)

The initial submittal of the AutoCAD file will occur during the 2nd plan check submittal. The file will be reviewed for content and format. Each subsequent submittal shall include an updated AutoCAD file for review.

The final submittal of the AutoCAD file will occur after the final plan check, prior to Environmental Utilities signing of approved plans.

Failure to submit the AutoCAD file per the submission document may delay final plan approval.

For tenant improvement projects, plans shall be routed through the Building Division. Any improvements within the public right of way or easements, or any construction that would require temporary placement of equipment or material within the public right of way or easements shall require the Developer or his Contractor to obtain an encroachment permit from the Development Services Department.

2-7 SUBMISSION OF ROUGH GRADING PLANS – The following are the Engineering Division's requirements for the submittal of Rough Grading Plans:

- A.** Five (5) sets of the proposed Rough Grading Plan conforming to the requirements of these Improvement Standards.
- B.** One (1) electronic copy of the plan set of the proposed Rough Grading Plan in .pdf format on a disc or thumb drive.
- C.** One (1) copy of the Soils Report for the project (see Section 2-10), or and one (1) electronic copy in .pdf format on a disc or thumb drive.
- D.** Two (2) sets of approved Conditions of Approval for the project.
- E.** Two (2) copies of the approved Tentative Map.
- F.** For projects with a total disturbed area of less than one (1) acre; submit two (2) copies of an erosion and sedimentation control plan in accordance with Section 11 of these Design & Construction Standards. In

lieu of providing a separate plan, this information may be shown on the Rough Grading Plan.

G. For projects with a total disturbed area equal to or greater than one (1) acre; submit the WDID associated with the project's Storm Water Pollution Prevention Plan (SWPPP). Ensure the WDID status is active and accessible within the State Water Resources Control Board's SMARTS system.

H. Payment of fifty (50) percent of plan check and inspection fee deposit, plus the Technology Fee. Fees are based on the engineer's cost estimate in accordance with the Development Services Department Engineering Division's established fee schedule. The fee schedule may be found at: <http://www.roseville.ca.us/civicax/filebank/blobdload.aspx?blobid=2947>

2-8 SUBMISSION OF ELECTRICAL DESIGN, LANDSCAPING AND IRRIGATION PLANS –

A. Five (5) sets of the electrical design plans and one (1) electronic set in *.pdf format on a disc or thumb drive shall be submitted with the first submittal of the improvement plans for non-residential projects and shall be submitted prior to underground only approval for residential projects. The Engineering Division will distribute the plans to all reviewing departments. Each department will then forward comments directly to the Development Services Engineering Division.

The approved electrical design plans shall be considered as part of the approved improvement plans and it is the responsibility of the Consulting Engineer to insure that the design of the improvements shown on both plans are consistent and compatible.

B. Five (5) sets of landscaping and irrigation plans and one (1) electronic set in *.pdf format on a disc or thumb drive shall be submitted with the first submittal of the improvement plans for non-residential projects and shall be submitted prior to underground only approval for residential projects. The Engineering Division will distribute the plans to all reviewing departments. Each department will then forward comments directly to the Development Services Engineering Division.

The approved landscaping and irrigation plans shall be considered as part of the approved improvement plans and it is the responsibility of the Consulting Engineer to insure that the design of the improvements shown on both plans are consistent and compatible.

2-9 SUBMISSION OF FINAL AND PARCEL MAPS - Final and Parcel maps may be submitted for review upon the approval of the tentative map by the City and only after the Conditions of Approval are available. Maps conditioned to construct improvements requiring civil design cannot be

submitted until the improvements plans have been submitted for review.

New street names, if any, shall be approved by Development Services Business Services Division. Approved street names shall be shown on map and a copy of the Approved Street Name Exhibit will be included no later than the second submittal of the Final or Parcel Map. Failure to submit the approved Street Name Exhibit by the second submittal may delay the final plan approval. The street naming process and Street Name Application may be found at:

<https://www.roseville.ca.us/addressing>

Submittal Requirements-

- A. Eight (8) copies of the final or parcel map (with Planning Division's File #)
- B. Payment of map checking fees (\$2500 + \$10/lot for a final map or \$1250 + \$50/lot for a parcel map unless otherwise specified, plus Technology Fee equal to three (3) percent of the total map checking fee.
- C. Boundary, Centerline, and parcel survey closure calculations that include error of closure.
- D. Two (2) copies of the Planning Division's "Notice of Applicant", list of Conditions of Approval and approved Tentative Map.
- E. Preliminary Title Report dated within six months.
- F. One (1) AutoCAD file of the parcel or final map submitted per the ["The Digital Submittal of Cadastral Surveys"](#).

The initial submittal of the AutoCAD file will occur with the 2nd plan check submittal. The file will be reviewed for content and format. Each subsequent submittal shall include an updated AutoCAD file for review.

The final submittal of the AutoCAD file will occur immediately following approval of the final or parcel map by the Engineering Division. A .pdf and 8 ½ x 11 inch plot or print of the map shall accompany the electronic copy.

Failure to submit the AutoCAD file per the submission document may delay the final map approval.

- G. Any additional information /documentation as required by Section 3-6 of the Improvement Standards.

2-10 SOILS REPORTS - Soils Reports shall be submitted electronically or in

an 8-1/2 x 11 bound folder. The analysis shall, as a minimum, include a map of the subject area showing proposed and existing streets, contours and location of type of soils obtained. The results of all field data and laboratory tests shall be included. Design for street sections shall be a part of the report. Street structural section design shall include recommendations for natural sub grade, geotextile fabric, sub base, base and pavement compaction and thickness to achieve design strength. For commercial, industrial and multi-family projects, the report shall contain recommendations for on-site pavement sections. Traffic Index values (TI) shall be in accordance with Section 7-4 and Table 7-2 of these Design & Construction Standards.

2-11 RESUBMITTAL REQUIREMENTS - All resubmittals shall be sent directly to the Development Services Engineering Division. All resubmittals shall include the following:

- A.** Previous check prints indicating any requested modifications;
- B.** Responses to comment sheets; All comments shall be either addressed on the plans along with acknowledgement of the correction, or if a comment is not specifically addressed on the plans, a written explanation shall be provided stating why the comment was not addressed.
- C.** Any additional materials or documentation as requested in the current plan review comment letter.
- D.** Any materials which were previously returned to the Consulting Engineer as a result of the plan check.
- E.** An electronic copy of the latest plan submittal in .pdf format. Each subsequent submittal shall include an updated pdf file for review. The number of plans required shall be four (4) unless otherwise specified in the previous plan check.
- F.** One (1) AutoCAD file of the project improvements submitted per the ["Digital Submission of Utility Composites"](#). The file will be reviewed for content and format. Each subsequent submittal shall include an updated AutoCAD file for review.

Plans being resubmitted that contain alterations or revisions other than those required by the City shall require the Consulting Engineer to bring those revisions or alterations to the attention of the City.

2-12 PLAN CHECK AND INSPECTION FEES - When Improvement Plans are initially submitted to the Department of Development Services, Engineering Division for review, an initial plan review and inspection fee deposit is required to initiate City plan review (see Section 2-6.E). Prior to approval of the plans, payment of the remaining balance of the fees shall be

made.

For subdivisions and certain site development projects where conditioned, the Developer shall be responsible for payment of actual costs incurred by the City in providing plan check and inspection services, as determined by the City Engineer. Actual costs will be determined prior to acceptance of the improvements by the City Engineer and additional payment by the Developer shall be made if actual costs exceed the deposit, or a refund will be provided by the City if actual costs are less than the deposit. The Developer shall notify the Development Services Engineering Division in writing of any change of billing address.

- 2-13 PLAN APPROVAL** - Approval will be given to a plan set after the Consulting Engineer preparing the plans has made the necessary changes, corrections, or additions required by the City, all required Departments have signed the plans, the Owner/Developer has paid the remainder of the total plan check and inspection fee, and posted all required bonds and insurances, and the permit has been issued.

The Consulting Engineer shall deliver to the Development Services Engineering Division a minimum of nine (9) sets of prints from the approved plans for construction stamp and permit issuance prior to scheduling a pre-construction meeting. Concurrent with plan approval, a .pdf file and utility composite in .dwg format of the approved design shall also be submitted. For complete approval process see “Residential Design Process” and “Commercial Design Process” charts at the end of Section 2.

No plans will be consider approved nor will construction be authorized until the plan set has received the City construction stamp and is accompanied by an appropriate permit.

- 2-14 EXPIRATION OF PLANS** - Every permit issued under the requirements of these Standards shall, at the discretion of the City Engineer, become null and void if the construction of work authorized by such permit is not commenced within six (6) months from the date of such permit, or if the construction of work authorized by such permit is suspended or abandoned for a period of six (6) months at any time after the work is commenced. At such time, the plans shall be subject to review by City staff to determine conformance with current City Standards.

Plan reviews that remain inactive for six (6) months may be deemed expired by the Engineering Division. A notice letter will be sent to the applicant and owner/developer after six (6) months of inactivity, requesting a status of the project. The project may, at the discretion of the City Engineer, be granted a six (6) month extension or deemed expired. A maximum of one (1) extension may be granted. Any project that was inactive for a twelve (12) month period shall be deemed expired and will need to be resubmitted per section 2-6.

2-15 IMPROVEMENT PLAN REVISIONS DURING CONSTRUCTION -

Should changes to the Improvement Plans become necessary during construction; such changes shall be subject to approval by Development Services Department Engineering Division, the Environmental Utilities Department, or other affected departments.

The procedure for obtaining approval shall be as follows:

- A.** The consulting Engineer shall submit bond sheets showing the proposed change(s) with clouded notation or denoted by delta revision symbol(s). The Engineering Division shall route the proposed revision to all applicable City Departments for review.
- B.** Following review and approval of the proposed change by the appropriate departments, the Consulting Engineer shall submit the current approved plan in reproducible form showing the proposed change.
- C.** If determined acceptable, the Development Services Engineering Division will indicate approval for the change by initialing the plans in the revision box.
- D.** Following return of the reproducible plan to the Consulting Engineer, the Consulting Engineer shall provide nine (9) bond sets of revised sheets.

After receiving approval, actual revisions shall be made in accordance with the following:

- A.** The original design shall not be eradicated from the plans but shall be lined out.
- B.** In the event that eradicating the original design is necessary to maintain clarity of the plans, approval must first be obtained from the Development Services Department.
- C.** The changes shall be clearly shown on the plans with the changes and approval noted on a revision signature block.
- D.** The changes shall be identified by the revision number in a triangle delineated on the plans adjacent to the change and on the revision signature block.

Minor changes during construction which do not affect the basic design of the improvements may be made upon authorization of the Development Services Engineering Division without formally revising the plans. These changes shall appear in the record drawings.

The City Engineer may order changes in the plans in order to complete the

necessary facilities or to conform to these Design & Construction Standards or accepted engineering standards. The procedure for making changes in the plans ordered by the City Engineer shall conform to the above outlined procedure and standards.

2-16 RECORD (AS-BUILT) PLANS - The Contractor/Developer shall keep an accurate record of all approved deviations from the plans and shall provide a .pdf electronic file, full size, and 11x17 bond copies of the as-built plans prior to final acceptance of the completed improvements. Each sheet of the plans shall be marked "AS-BUILT" or "RECORD DRAWING." "As-Built" or "Record Drawings" of signal plans, water, sewer and storm drain composite in plan view only, and parcel and final maps shall also be submitted in AutoCAD format.

2-17 CONFLICT, ERRORS, AND OMISSIONS - Excepted from approval are any features of the plans that are contrary to, in conflict with, or do not conform to these Design & Construction Standards, any California State Law, City Ordinance or Resolution, conditions of approval, or generally accepted good engineering practice, in keeping with the standards of the profession, even though such errors, omissions or conflicts may have been overlooked in the Development Services Engineering Division's review of the plans. The responsibility of accurate plans which provide for a safe and proper design rests with the Consulting Engineer, not the City.

2-18 CHANGE IN CONSULTING ENGINEER - If the developer elects to have a registered Civil Engineer or Licensed Surveyor other than the engineer who prepared the plans provide the construction staking, the Developer shall provide the City Engineer, in writing, the name of the individual or firm one week prior to the staking of the project for construction. The Developer shall then be responsible for providing all necessary construction documents, the preparation of revised plans for construction changes, and the preparation of "as-built" plans upon completion of the construction.

In the Developer's notification of change in the firm providing construction staking, the Developer shall acknowledge that he/she accepts responsibility for design changes and "as-built" information as noted above.

2-19 OTHER AGENCY NOTIFICATION - The Owner/Developer is responsible for obtaining required approvals and permits from all other governmental agencies, as required, prior to issuance of any City permits.

2-20 INSPECTION REQUIREMENTS - Any improvement constructed in conformance with these Design & Construction Standards for which the City is intended to assume maintenance responsibility, shall be inspected during construction by the City Engineer. Each phase of construction shall be inspected and approved prior to proceeding to subsequent phases. Private on-site grading and drainage shall also be inspected during construction by

the City Engineer. Requests for inspections shall be given 24 hours in advance.

Any improvement constructed without inspection as provided above or constructed contrary to the order or instructions of the City Engineer will be deemed as not complying with the Design & Construction Standards and will not be accepted by the City for maintenance purposes. The Contractor shall then notify the City Engineer prior to staking.

- 2-21 FINAL INSPECTION** - Upon completion of any improvements which are constructed in conformance with these Design & Construction Standards and prior to requesting final inspection, the area shall be thoroughly cleaned of all rubbish, excess material and equipment, and all portions of the work shall be left in a neat and orderly condition satisfactory to the City Engineer.

Within ten (10) days after receiving the request for final inspection, the City Engineer shall inspect the work. The Contractor will be notified in writing as to any particular defects or deficiencies to be remedied. The Contractor shall proceed to correct any such defects or deficiencies at the earliest possible date. At such time as the work has been completed, a second inspection shall be made by the City Engineer to determine if the previously mentioned defects have been repaired, altered, and completed in accordance with the Design & Construction Standards. At such time as the City Engineer approves the work, a recommendation will be made to the City Council for final acceptance.

On assessment districts and projects where the City of Roseville participates in the costs thereof, quantities will be measure in the presence of the City Engineer, Consulting Engineer, and Contractor and witnessed accordingly.

- 2-22 ACCEPTANCE OF IMPROVEMENTS** - No improvements will be accepted by the City until all improvements required of the subdivision or development project have been completed and approved by the City Engineer. Acceptance of improvements associated with a subdivision will be signified by notification, in writing, from the City Engineer. Acceptance of all other improvements will be signified by completion of work of the encroachment or improvement permit by the City Engineer.

Prior to acceptance of improvements required of subdivisions and the approval of occupancy of buildings associated with site development for commercial, industrial, or multi-family dwellings, the Consulting Engineer shall certify, in writing, that all on-site grading was performed in accordance with the approved grading plan, including minimum pad elevations. Also required prior to acceptance of subdivision improvements are letters from each utility company indicating that all required utility work has been completed to the satisfaction of the company.

- 2-23 SPECIAL NOTICES AND PERMITS** - The Consulting Engineer shall be responsible for advising the Contractor to give the following notices and

have in his possession the following permits and plans:

- A. Contractor shall be in receipt of official City approved plans prior to construction.
- B. Contractor shall notify the Development Services Department and all utility companies involved in the development at least 48 hours prior to beginning of work.
- C. Contractor shall notify “Underground Service Alert” and have construction area marked at least two working days prior to any digging.
- D. Contractor shall be responsible for the protection of all existing monuments and/or survey monuments.
- E. Contractor shall be responsible for conducting his operation entirely outside of any prohibited area. These areas shall be clearly delineated in the field prior to construction.
- F. Contractor shall provide copies of any and all required EIR mitigation studies or reports prior to construction.

2-24 GRADING PERMITS, ENCROACHMENT PERMITS, IMPROVEMENT PERMITS, AND SUBDIVISION AGREEMENTS

– No work of any type shall be performed within the City rights-of-way and/or public easements without approved plans and an encroachment permit, improvement permit, or subdivision agreement. The certificate of insurance and all necessary bonds shall be posted and approved prior to approval of the plans and the issuance of any permits. This section contains the City’s requirements for each of these permits.

A. Grading Permits – The City Grading Ordinance requires that a grading permit be obtained from the City prior to beginning any grading activities greater than the movement of 50 cubic yards of material or as otherwise exempt as specified in the Grading Ordinance. See Section 2-7 for plan submittal requirements. NOTE: Unless prohibited by a condition of approval, a developer may obtain a grading permit to rough grade the project site prior to obtaining approval of the project’s civil improvement plans. In the event the plans show work on private property not owned by the developer, the developer shall submit to the Engineering Division a notarized right-of-entry from the owner of said property prior to plan approval.

1. **Fees** – For the most current fee schedule, please visit the City of Roseville website at:
<http://www.roseville.ca.us/civicax/filebank/blobdload.aspx?blobid=2947>

2. **Bond** – A grading performance bond shall be submitted for all

activities requiring a grading permit. The amount of the bond shall be equivalent to ten percent of the valuation of the grading and erosion and sediment control measures. Minimum bond amount shall be \$500.00. A cost estimate shall be provided to the Engineering Division for review and approval as part of plan submittal.

3. Insurance – Insurance is not required where the proposed grading is not within existing City rights-of-way and easements. Where grading is proposed within City rights-of-way and easements an encroachment permit shall be issued concurrently with the grading permit. See “B” below for information regarding encroachment permit requirements.

4. Release of Bond – The bond shall be released immediately following completion of all conditions of the grading permit to the satisfaction of the City.

B. Encroachment Permit - An encroachment permit is required for any work performed within the City’s right-of-way and/or public easements.

1. Fees - Plan review and inspection fees (combined into one fee) for Encroachment permits are based on the value of the public improvements to be constructed within existing and proposed City rights-of-way and easements. A cost estimate for the improvements, including construction staking, shall be provided to the Engineering Division for review and approval. All cost estimates shall include a ten percent contingency. The fee schedule shall be as adopted by City Council resolution. Contact the Engineering Division for the current schedule in effect. Where grading is proposed in conjunction with the improvements a grading permit shall be issued concurrently with the encroachment permit. See “A” above for information regarding grading permits. A Technology Fee of three (3) percent shall be applied to all plan review and inspection fee deposits. Trench Cut Recovery Fees as specified in the Trench Cut Ordinance will be collected for all utility cuts into existing streets as specified in the Ordinance. Trench Cut Recovery Fees are based upon the extent of trenching proposed and present condition of the street’s pavement prior to trenching. Fees will be calculated prior to issuance of an encroachment permit by the Engineering Division.

2. Bond - An Encroachment permit faithful performance bond shall be submitted prior to the issuance of an encroachment permit. The bond shall be equal to 100 percent of the value of the improvements in the existing City rights-of-way and easements. Those improvements to be constructed within future City rights-of-way and easements are not required to be bonded for under an encroachment permit. A cost estimate for the improvements, including any required construction staking, shall be provided to the Engineering

Division for review and approval. All costs shall include a 10 percent contingency. A bond shall be approved by the City Attorney prior to issuance of the Encroachment permit.

- 3. Insurance** - A Certificate of Insurance evidencing certain insurance coverage is required for all work within City rights-of-way and easements. Contact the Risk Management Department for information regarding minimum insurance coverage requirements.
 - 4. Release of Bond** - The encroachment permit faithful performance bond shall be released 180 days (six months) after all conditions of the encroachment permit have been completed to the satisfaction of the City for projects valued less than \$25,000. For projects valued greater than \$25,000, as determined by the City Engineer, the warranty period shall be 365 days. In the case of subdivision improvements being constructed under an encroachment permit, the encroachment permit faithful performance bond shall be released as specified above unless, prior to the completion of the improvements, a subdivision agreement is executed for the improvements. In such case, the encroachment permit faithful performance bond shall be released immediately following execution of the subdivision agreement.
- C. Improvement Permits** - An improvement permit is required for the approval of improvement plans and the commencement of construction on a development project. This permit covers all construction activity, including grading and encroachment, and has the same bond and insurance requirements a grading and encroachment permit as listed in sections 2-24.A and 2-24.B. See Sections 2-5 and/or 2-6 for plan submittal requirements. In lieu of an improvement permit, work may also be performed under the conditions of a subdivision agreement. See section 2-24.D below for information regarding subdivision agreements.
- 1. Fees** - Plan review and inspection fees (combined into one fee) for improvement permits are based on five (5) percent of the value of the engineer's cost estimate for all proposed improvements. A cost estimate for the improvements, including construction staking, shall be provided to the Engineering Division for review, approval. All cost estimates shall include a ten percent contingency. A Technology Fee of three (3) percent of the calculated plan review and inspection fee shall be applied to all plan review and inspection fee deposits. Trench Cut Recovery Fees as specified in the Trench Cut Ordinance will be collected for all utility cuts into existing streets as specified in the Ordinance. Trench Cut Recovery Fees are based upon the extent of trenching proposed and present condition of the street's pavement prior to trenching and are separate from the plan review, inspection, and technology fees. Fees will be calculated prior to issuance of an improvement permit by the Engineering Division.

2. **Subdivision Maintenance Agreement Required** - Where all improvements required of a subdivision are completed under an encroachment permit prior to final map approval, a one year subdivision maintenance bond equal to 10 percent of the valuation of the public improvements shall be posted with and for the duration of the one year Subdivision Maintenance Agreement prior to recordation of the final map and acceptance of the improvements as complete. In such cases, the developer shall provide –written proof that his/her contractors and suppliers have been paid.

D. Subdivision Agreement - In lieu of constructing public improvements under an improvement permit, the work may be performed under the conditions of a subdivision agreement

1. **Final or Parcel Map** – **The final or parcel map required of the project shall be approved by the Engineering Division prior entering into a Subdivision Agreement.**
2. **Fees** - Plan review and inspection fees (combined into one fee) shall be paid prior to execution of the subdivision agreement or approval of the improvement plans. Said fees are based on the value of the public improvements to be constructed within existing and proposed City rights-of-way and easements. A cost estimate for the improvements, including any required construction staking, monumentation and landscaping shall be provided to the Engineering Division for review and approval. All cost estimates shall include a 10 percent contingency. The fee schedule shall be as adopted by City Council resolution. Contact the Engineering Division for the current schedule in effect.
3. **Bonds** - A subdivision payment bond, and subdivision faithful performance bond, and subdivision maintenance bond shall be submitted prior to execution of the subdivision agreement. The payment and performance bond amounts shall each be equal to 100 percent of the total cost of said public improvements within existing and future public rights-of-way and easements. A subdivision maintenance bond shall be submitted prior to the Notice of Completion being filed for the subdivision. The maintenance bond shall be equal to 10 percent of the total cost of said public improvements. A cost estimate for the improvements shall be provided to the Engineering Division for review and approval. All cost estimates shall include construction staking and a 10 percent contingency. All three bonds require approval by the City Attorney.
4. **Insurance** - A Certificate of Insurance evidencing certain insurance coverage is required for all subdivision agreements. Contact the **City Risk Management Department** for information regarding minimum insurance coverage requirements.

- 5. Release of Bonds** - Both the subdivision payment bond and faithful performance bonds shall be released at such time as all conditions of approval for the subdivision have been completed to the satisfaction of the City and a notice of completion filed for the subdivision improvements. The maintenance bond shall remain in place for a period of one year subsequent to the notice of completion.

2-25 SUBMISSION OF LOT LINE ADJUSTMENTS – The following shall Be submitted to the Engineering Division prior to recordation of a lot line Adjustment:

- A.** Two (2) copies of the property boundary description with an exhibit map (8.5"x 11" sheet). These sheets must have at least a ½" margin along all sides
- B.** One (1) AutoCAD file of the property boundary description per the ["The Digital Submittal of Cadastral Surveys"](#).
- C.** One (1) copy of the boundary survey closure calculations for the resulting lots. These items shall be stamped and signed by a California Licensed Land Surveyor or Registered Civil Engineer authorized to practice land surveying.
- D.** A completed Property Owner Consent Form. Forms are available at the Engineering Division Counter or on the City of Roseville's web site (http://www.roseville.ca.us/gov/development_services/engineering_land_development/applications_forms_n_handouts.asp.)
- E.** Deed(s) to convey interest in the affected properties.
- F.** Preliminary title report no older than six (6) months for all properties involved.
- G.** One (1) copy of the Conditions of Approval.

2-26 SUBMISSION OF DEDICATION BY SEPARATE INSTRUMENT - All easements dedicated by separate instrument shall conform to the requirements outlined in the "Policy and Procedure for Processing Grant of Easements through the City of Roseville". A copy of this document is contained within the easement package which is available at the Engineering, Electric, and Environmental Utility department counters. The easement package contains the following:

- A.** The Policy and Procedure for Processing Grant of Easements through
 - i. the City of Roseville.
- B.** Easement Review Application form.

C. A standard Grant of Easement form with notary acknowledgment.

D. Subordination Agreement.

The completed application form with the required documents shall be submitted for review to the City Department that requested the easement. If errors, corrections, or questions arise, the applicant or the applicant's engineer shall resolve them. Once all concerns or questions have been resolved the entire easement package will be forwarded to the City Attorney for review and approval.

After the City Attorney has approved the easement package, a resolution accepting the grant of easement will be prepared and all documents will be forwarded to the Placer County Recorder for recording until conforming copy containing the recording information is returned by the County Recorder to the **City** Clerk's Office, the City has no authority to proceed with construction or entry on the area being granted.

2-27 BRIDGES AND OTHER STRUCTURAL ITEMS - The following is the City's procedure for plan checking and construction inspecting of structural items such as bridges, retaining walls, non-standard culverts, etc.

A. Private Improvements - Where structural items are to be constructed on private property which is intended to remain privately owned, the design engineer shall submit a letter along with the plan submittal which certifies that the item has been designed in accordance with accepted engineering practice. Said letter shall be wet stamped with the design engineer's RCE stamp and wet signed by the design engineer. The City will not plan check the design of the item as related to structural integrity. The responsibility for ensuring said integrity rests with the design engineer.

For inspection of private structural items, the design engineer shall submit a letter to the Engineering Division certifying that the item has been constructed in accordance with accepted test methods. Said letter shall be wet stamped with the design engineer's RCE stamp and wet signed by the design engineer. It shall be the Developer's responsibility to make arrangements, as necessary, with the design engineer to enable said engineer to provide said letter as described above. The City will not inspect the construction of the item as related to structural integrity. The responsibility for ensuring said integrity rests with the design engineer.

NOTE: The above is not to be confused with private on-site retaining walls, buildings, etc., as these items require a building permit and therefore are plan checked and inspected by the Building Division. The structural items addressed in this section primarily pertain to improvements associated with private roadways.

B. PUBLIC IMPROVEMENTS - Where structural roadway items are to be constructed on public property, public right-of-way, or on private property which is intended to become public property or right-of-way, improvement plans shall be submitted to the Engineering Division for plan check along with the roadway improvement plans. The City will forward plans of the structural roadway item to the City's consultant for plan checking. The consultant's comments will be forwarded to the City for incorporation with City comments to the design engineer.

For inspection of public structural roadway items, the Engineering Division will provide inspection services similar to typical public roadway inspection which may include retaining a consultant for inspection services.

2-28 DEVIATION FROM STANDARDS - All requests for approval of exceptions from the design requirements contained within these Design Standards shall be submitted in writing to the Engineering Division. Approval for exceptions shall be sought as early as possible in the project development process, particularly where the project concept and/or cost estimate depend on the proposed design exceptions.

Requests for design exceptions shall include the following:

1. A statement of the specific standard for which a design exception is requested.
2. A thorough but brief description of the reason for the request for the design exception.
3. A description of any non-standard safety enhancements to be provided such as median barriers, guardrail updates, etc.
4. An estimate of the additional cost required to conform to these Design Standards.

The approval of all deviations from these standards shall be by the City Engineer.

Residential Design Process

1

Approved Entitlement

Discretionary approval must first be obtained prior to the submittal of improvement plans for plan check.

Discretionary approvals include subdivision and parcel maps.

2

Permit Center

The Permit Center receives all initial submittals of improvement plans. The application (www.roseville.ca.us/developmentapp) for plan review of improvement plans states the materials required at submittal. The materials and information required is noted below:

Improvement Plans

- ☐ 5 sets of plans
- ☐ 2 copies of the engineer's cost estimate
- ☐ Plan Check & Inspection Fee Deposit = 2.5% of engineer's cost estimate
- ☐ 2 copies of the storm drain calculations
- ☐ 2 copies of the drainage shed map
- ☐ 2 copies of the soils report
- ☐ 3 copies each of the Clerk's or Planning Dept. Notice of Approval w/conditions of Approval (not staff report)
- ☐ 3 copies of the Approved Tentative Map
- ☐ 2 copies of Stormwater Quality Maintenance Plan and completed SWQ Management Permit (if applicable)

Landscape plans for residential subdivision are not required at the initial submittal

3

Plan Distribution

Upon receipt of the improvement plans by the Permit Center the improvement plans are distributed to City departments for review comment and ultimately approval. City departments receiving plans for review include: Engineering, Planning, Roseville Electric, Environmental Utilities, Parks and Recreation and Fire. The project applicant will receive a consolidated comment letter from Engineering. All subsequent responses should be made directly to Engineering.

4

Rough Grade

Once each department's requirements have been met relative to the grading sheets they will approve the plans for rough grading. Once all departments have approved the rough grading a "Rough Grade Only Permit" can be issued. Approved rough grade plans shall be identified as being for grading purposes only on the face of the Improvement Plans and grading sheets shall be copied on green paper. An applicant is not required to pull a rough grading only permit.

5

Underground water, sewer, storm

Underground improvements include potable water, recycled water, fire service water, sewer and storm drain improvements. Once each department's requirements have been met relative to the underground improvements they will approve the plans for underground work. Once all departments have approved the underground improvements an "Underground Improvement Permit" can be issued. Prior to release of the Underground Improvement Permit the applicant shall submit an electronic copy of the improvement plans and shall have submitted landscape plans. Approved underground improvement plans shall be identified as being for underground improvement purposes only on the face of the Improvement Plans and underground sheets shall be copied on pink paper. An applicant is not required to pull an underground only permit.

6

Electric Design to begin

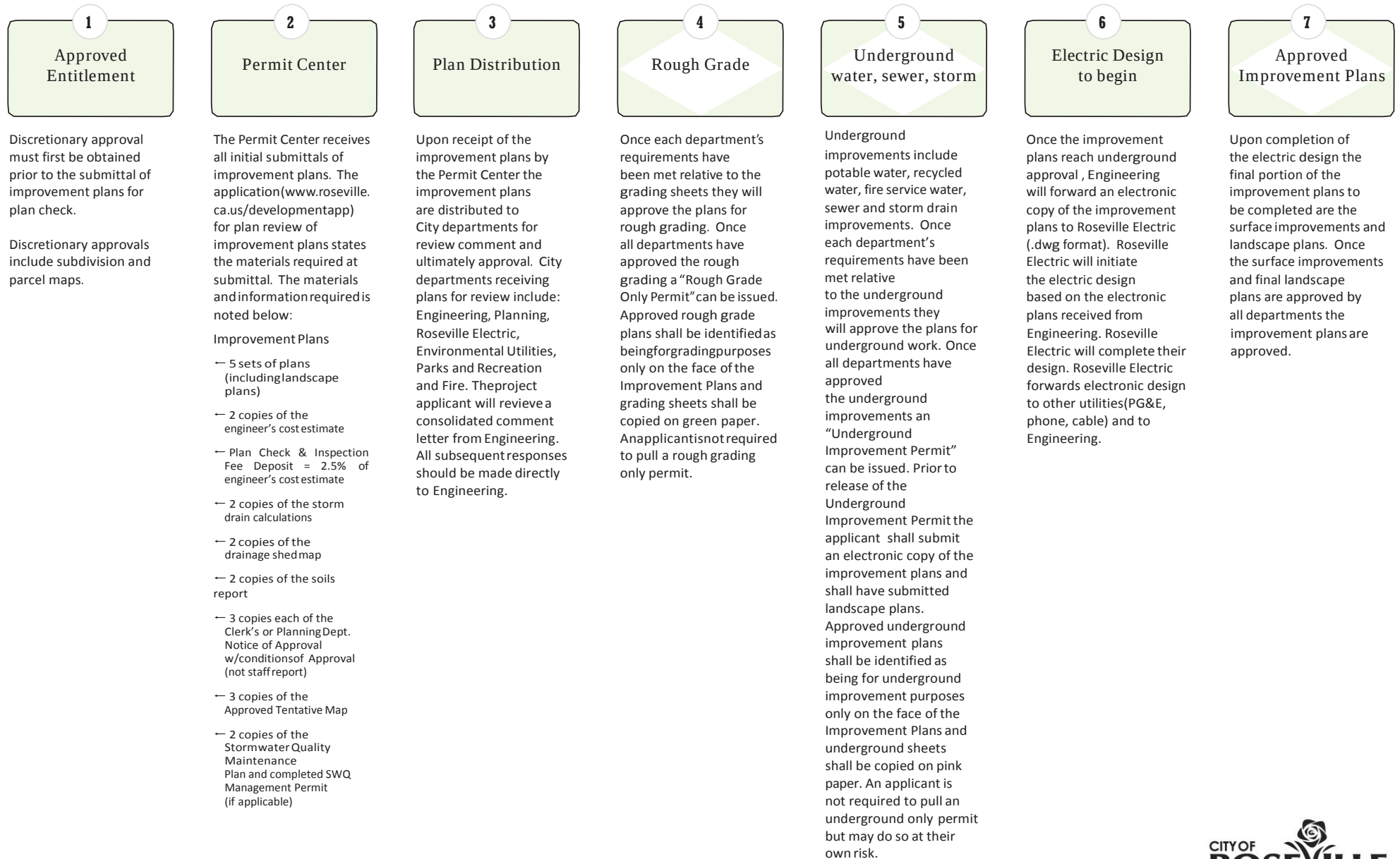
Once the improvement plans reach underground approval Engineering will forward an electronic copy of the improvement plans to Roseville Electric (.dwg format). Roseville Electric will initiate the electric design based on the electronic plans received from Engineering. Roseville Electric will complete their design. Roseville Electric forwards design to other utilities (PG&E, phone, cable) and to Engineering.

7

Approved Improvement Plans

Upon completion of the electric design the final portion of the improvement plans to be completed are the surface improvements and landscape plans. Once the surface improvements and final landscape plans are approved by all departments the improvement plans are approved.

Commercial Design Process



SECTION 3

PLAN SHEET REQUIREMENTS

- 3-1 GENERAL** - Public Improvement Plans shall be prepared for public improvements required of subdivisions and all other work performed within City rights-of-way or easements that is in excess of minor work. For the purposes of this section, minor work shall consist generally of the construction, or the removal and replacement of curbs, gutters, sidewalks or driveways; minor street widening; connections to existing water, sewer or storm drainage facilities adjacent to site development; and utility related work.

The following requirements apply to the form of Public Improvement Plans:

- 3-2 PLAN AND PROFILE SHEETS** - All improvement plans shall be clearly and legibly drawn in ink on engineering mylar, or approved equal, 24 inches by 36 inches in dimension ("D" size). Sheets shall have a 1-1/2 inch wide clear margin at the left edge and a 1 inch wide margin on all other edges, or as otherwise approved by the City Engineer.

A. Drafting Standards- All line work shall be neat, clearly legible, and opaque to light. Letters and numerals shall have a minimum height of 1/8 inch and be well formed and sharp. Numerals showing profile elevations shall not be bisected by station grid lines. Dimension lines shall be terminated by sharp, solid arrowheads.

B. Scale- Horizontal scale shall be 1 inch= 20, 40, or 50 feet and shown as a scale bar beneath north arrow. Vertical scale shall be 1 inch= 2, 4, or 5 feet.

C. Title Block- A title block must be shown on each sheet within the set of drawings and shall show the subdivision or project name, sheet title, sheet number, date, scale and Consulting Engineer's name, signature, and license number. The title block shall be placed along the lower edge or right side of the sheet.

D. Orientation- All plan sets shall be oriented with the north arrow pointing either to the top or the right edge of the plan sheet.

- 3-3 TITLE OR GENERAL INFORMATION SHEET**- Each set of Improvement Plans shall have a Title or General Information Sheet. This sheet shall be sheet one of the plans and shall include the following:

A. *A vicinity map drawn to a convenient scale, preferably not less than 1 Inch = 2000 feet. The North arrow must point to the top of the sheet.

- B.** *A North arrow and scale.
- C.** *Sewer and storm drainage network.
- D.** *Index of sheets.
- E.** *A signature block for the City Engineer and Facilities Engineer.

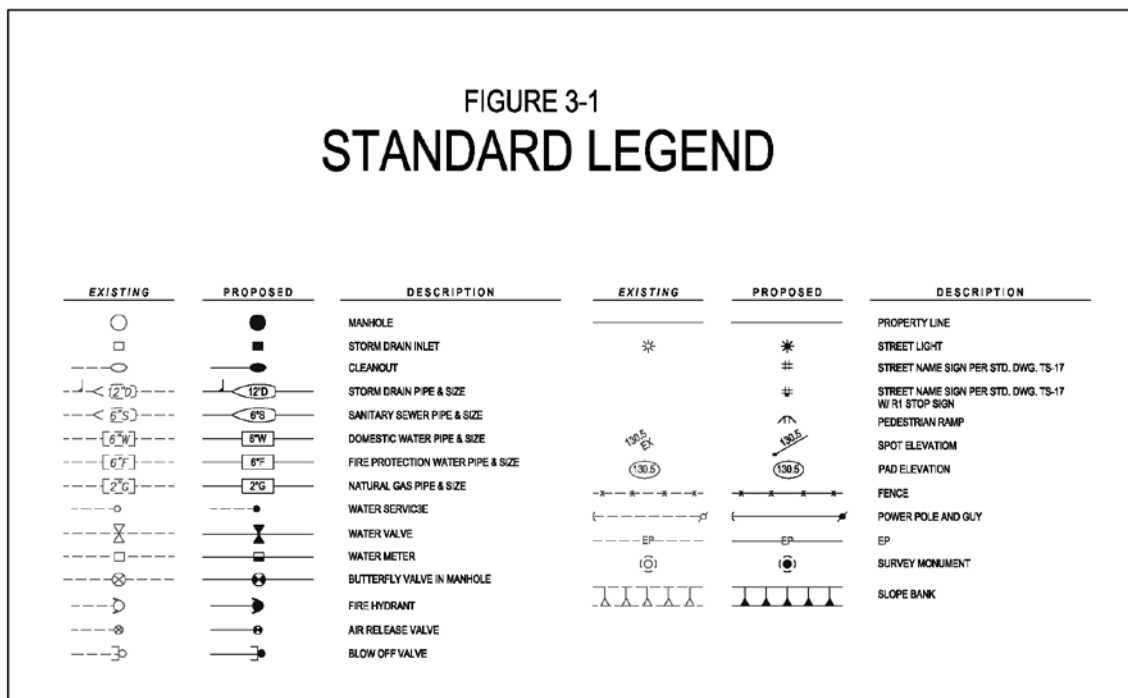
CITY OF ROSEVILLE

DEPT. OF DEVELOPMENT SERVICES	
ACCEPTED BY:	
CITY ENGINEER	DATE
FIRE DEPARTMENT	
ACCEPTED BY:	
FIRE INSPECTOR	DATE
DEPT. OF ENVIRONMENTAL UTILITIES	
ACCEPTED BY:	
PRINCIPAL ENGINEER	DATE

- F.** *Utility information block.
- G.** *Block for Roseville Planning Project Number and Date Improvements Completed.
- H.** The entire subdivision or parcel drawn to a scale not less than 1 inch = 200 feet, or as approved by the City Engineer. The map shall provide the following:
 - 1.** Streets and street names of all streets within or contiguous to the project.
 - 2.** Adjacent subdivisions or parcels properly identified including names, lot lines and lot numbers.
 - 3.** All property lines.
 - 4.** City limit line (if applicable).

- I.** Legend of symbols conforming to the Standard Drawings. (See figure 3-1).
- J.** All of the Development Services General Notes, shown verbatim. The General Notes are available on the City of Roseville's web site at: http://www.roseville.ca.us/gov/development_services/engineering_land_development/plan_review/standard_notes.asp
- K.** Typical street sections including TI and R values.
- L.** Temporary and permanent benchmarks with description. The Consulting Engineer shall contact the Development Services Department for the location and elevation of the nearest official benchmark.
- M.** Any California Environmental Quality Act (CEQA) Mitigation Measures that apply to the project.

Improvement Plans consisting of fewer than four sheets, except traffic signal plans, shall not include at Title Sheet, but instead shall show all of the above information on the plans. If a title sheet is not required, those items shown with an (*) shall be shown on the first sheet.



3-4 STREET PLAN AND PROFILE SHEETS-The following requirements are for all plans submitted to the City of Roseville for review and approval:

- A. Plan View** - The plan view of each street to be improved shall be shown on separate sheets and shall include existing improvements and contours/elevations within 100 feet of the project boundary, proposed improvements and future improvements if known. Proposed improvements shall include sidewalks, curbs, gutter, driveways, sewer mains, water mains, sewer lateral locations, storm drains, manholes, valves, fire hydrants, fencing, barricades, monuments, survey stationing, signal pull boxes, signal poles, hardscape features, curve data for all curves along centerline and curb returns and distinct elevations along the face of curb at all beginning and ends of curves and at all curb returns. In additions, right-of-way lines, easement lines, and City limit lines (if applicable) shall be shown. Call-outs on the plans to City Design and Construction Standards (“Type C D.I.”, “Type 2 curb”, etc.) shall reference the Standard Drawings where these are shown. Callouts for non-standard improvements shall reference the detail, including sheet number, which provides the construction specifics. Other data may be required as specified by the City Engineer. The survey stationing shall normally read from left to right with the North arrow pointing either to the top or right edge of the sheet. All stationing shall be a continuation of that used for the design of existing improvements where possible.
- B. Profile View** - The profile view of each street shall be shown immediately below its plan view. The profile shall include existing and proposed street centerlines, sewer mains, storm drains, water mains, public utility mains, all utility crossings, and gutter flow lines. Distinct elevation shall be shown on the street centerline and gutter flow line at 50-foot stations and grade break points, manhole and catch basin inverts and elevations, and water main crossings with other utilities. Rates of grade shall be shown on all profile lines. Elevations of hydraulic grade line for the 10-year frequency storm shall be shown at all storm drain manholes, catch basins and drain inlets where located above the top of the pipe. Elevations of the hydraulic grade line for 100-year frequency storms shall be shown at all crossings of arterials, culverts and where determined necessary by the City Engineer. Storm drain manhole and inlet identification numbers from drainage study shall be shown at all storm drain manhole and inlet locations.
- C. Signing and Striping Plans** - All existing and proposed traffic signing and striping shall be shown on a plan view and on separate sheets from all other improvements. The scale shall be 1 inch = 40 feet, or as otherwise approved by the City Engineer. Signing and striping to be shown shall include all existing and proposed traffic striping, pavement markings, pavement markers, regulatory signs and warning signs. All

existing signing and striping within at least 200 feet of the project limits shall be shown.

D. Rough Grading and Finished Grading Plans - Rough Grading and Finished Grading Plans shall conform to the requirements of these Design Standards. (See Section 11).

E. Other Plans - Other plans that shall be incorporated in the public Improvement Plans include, but are not limited to, landscaping and irrigation, dry utilities, retaining and decorative soundwalls, and traffic signals. The layout of meandering sidewalks, soundwalls, pedestrian pass-throughs, etc., shall be shown on the Improvement Plans along with any grading associated with these improvements in addition to being shown on the landscaping plans. Public improvements built under the landscaping plans shall be included in the cost estimate submitted with the Improvement Plans in order that they may be properly bonded for and inspections costs covered.

3-5 DETAIL SHEETS - Detail sheets, if necessary, shall delineate special details, structural designs, etc., for which no Standard Detail exists, and when space is not available on the plan and profile sheets.

Plan views of the structure, for which details or design are to be provided, shall be shown on the detail sheet depicting the location of said structure in relation to street centerlines, stations, bearings, skews, grades, etc.. Structural details shall be delineated at a scale that will clearly define all facets of the design. Standard Details shall not be delineated on detail sheets or any other sheet unless reproduced in full.

3-6 PARCEL AND FINAL MAPS - The parcel or final map shall be prepared by or under the direction of a Civil Engineer registered in the State of California authorized to practice land surveying or licensed land surveyor in the manner required by the State Subdivision Map Act, Chapter 18 of the Roseville Municipal Code, and these Design & Construction Standards.

A. Preparation and Form - The general form and layout of the map, including size and type of lettering, drafting and location acknowledgements, etc., shall be as approved by the City Engineer. Parcel and final maps shall conform to the following:

1. Survey information shall generally read from left to right and orientated perpendicular or parallel with the northerly direction. North shall be oriented to either top or right edge of the sheet.
2. Large lot final maps or large lot parcel maps shall not be more than one inch equals 100 feet, unless otherwise permitted by the City

Engineer. The scale of residential final maps shall not be more than one inch equals 50 feet. All maps shall clearly show all details of the subdivision.

3. All dimensions shall be shown in feet and hundredths of a foot. No ditto marks shall be used.
4. If more than two sheets are necessary to show the entire subdivision, a graphical index shall be included.
5. The subdivision designation, tract number, other numbers assigned by the City Engineer, scale and north arrow shall be shown on each sheet.
6. A title sheet, designated as page number one of the final map, shall be provided. Where the size of the subdivision permits, in lieu of a separate title sheet, the information required may be shown on the same sheet as the map of the subdivision.
7. The final map shall be legibly drawn in accordance with the requirements of the Subdivision Map Act, and as directed by the City Engineer. The parcel or final map, when filed, must be in such condition that legible prints and negatives can be made there from.
8. All text height, found or set monuments and line weights shall more or less conform to figures 3-2A, 3-2B and 3-2C

FIGURE 3-2A
SCALE AT 1"=40'

TEXT HEIGHT =4.0

- Ø4.00" ○DIMENSION POINT, NOTHING FOUND OR SET
- Ø4.00" ⦶SET MONUMENT SYMBOL
- Ø4.00" ⊙SET MONUMENT SYMBOL FOR MONUMENT BOX
- Ø4.00" □SET STREET CENTERLINE MONUMENT SYMBOL
- Ø4.00" ●FOUND MONUMENT SYMBOL FOUND MONUMENT BOX
- Ø4.00" ●FOUND MONUMENT SYMBOL
- Ø4.00" ■FOUND STREET CENTERLINE MONUMENT SYMBOL

FIGURE 3-2B
SCALE AT 1"=20'

TEXT HEIGHT =2.0

- Ø2.00" ○DIMENSION POINT, NOTHING FOUND OR SET
- Ø2.00" ⦶SET MONUMENT SYMBOL
- Ø2.00" ⊙SET MONUMENT SYMBOL FOR MONUMENT BOX
- Ø2.00" □SET STREET CENTERLINE MONUMENT SYMBOL
- Ø2.00" ●FOUND MONUMENT SYMBOL FOUND MONUMENT BOX
- Ø2.00" ●FOUND MONUMENT SYMBOL
- Ø2.00" ■FOUND STREET CENTERLINE MONUMENT SYMBOL

FIGURE 3-2C

- BOUNDARY LINE (Weight =.70mm)
- INDIVIDUAL PROPERTY LINE (Weight =.40mm)
- ADJACENT PROPERTY LINE (Weight =.20mm)
- - - - - EASEMENT LINE (Weight =.30mm, LT Scale=0.1)

B. Certificate Sheet - The Certificate Sheet shall contain the following information:

1. The title followed by the words, "Subdivision No. (Insert Planning Department's file number)." "City of Roseville, Placer County, California."
2. Below the title shall be a subtitle, consisting of a description of all property being subdivided with reference to such map or maps of property shown thereon as shall have been last previously recorded or filed in the County Recorder's Office, or shall have been previously filed with the County Clerk pursuant to a final judgment in any action in partition, or shall have been previously filed in the office of the County Recorder under authority of the Subdivision Map Act or by reference to the plat of any United States survey.

The Title shall also include the Section(s), Township, and Range of the Mount Diablo Meridian.

3. The subtitle of maps filed for the purpose of reverting subdivided land to acreage shall consist of the words, "A reversion to acreage of ..." (insert description as required herein).
4. Reference to tracts and subdivisions in the description must be worded identically with original records. Reference to book and page of record must be complete.
5. Affidavits, certificates, acknowledgements, endorsements, acceptances, dedications and notorial seals as required by law including, but not limited to, the Subdivision Map Act and City Ordinance.

C. Information- The parcel or final map shall substantially conform to the City approved or conditionally approved tentative map including all approved modifications, and shall contain the following information:

1. All areas shown on the map which do not constitute a part of the subdivision shall be labeled "Not a part of the subdivision," or, "N.A.P.O.T.S." All lines delineating such areas shall be dashed.
2. The following survey data and information shall be shown on the Final Map:
 - a. Corners Stakes, monuments (together with their precise position) or other evidence found on the ground, to determine the boundary of the subdivision.
 - b. Corners of all adjoining properties identified by lot and block numbers, subdivision names, numbers and pages of record, or by section, township and range, or other proper designation.
 - c. All information and data necessary to locate and retrace any point or line without reasonable difficulty.
 - d. The location and description of any required monuments to be set after recording of the parcel map, and the statement that they are "to be set."
 - e. Bearings and lengths of each lot line, centerline, block line and boundary line, and each required bearing and distance. All line annotation shall be located adjacent to the described line. Curve and line tables can be used to avoid crowding and conflicts with line work or other information shown on the map; however, the use of annotation tables shall be kept to a minimum.

- f.** Chord length, chord bearing, radius, arc length, and central angle of each curve.
 - g.** The survey center lines of any street or alley in or adjacent to the parcel together with reference to a field book or map showing such center line and the monuments which determine its position. If the monuments are determined by ties, that fact shall be so stated.
 - h.** Sheet numbering shall be located in the lower right hand corner of each sheet.
 - i.** Such other survey data or information as may be required to be shown by the City or by the provisions of Chapter 18 of the Roseville Municipal Code.
- 3.** All resulting lots or parcels being subdivided for the purpose of sale, lease, or financing, excluding those exempted by law, and all parcels offered for dedication to the City or any other public agency, for any purpose, with all dimensions, boundaries and courses clearly shown and defined. Dimensions of lots shall be as total dimensions corner-to-corner, in addition to point-to-point dimensions.
- 4.** All lots shall be numbered consecutively, without omissions or duplication, throughout the subdivision, starting with the number one, except units of a total development which shall be numbered consecutively throughout the development. Lot numbering shall be consistent with that of the approved or conditionally approved tentative map or as approved by the City Engineer. Only parcels offered for dedication other than for streets or easements shall be designated by letters. However, in single-family divisions, the parcels intended for other than single-family use may be designated by letters. Each numbered lot shall be shown entirely on one sheet. The text height of a lot number or designated lettered lot shall be a minimum of 1.5 times larger than the surrounding line annotation.
- 5.** The square footage (to the nearest foot) shall be shown on the map directly under the lot number. Lots one acre or greater shall be shown with the net acreage (to the nearest one hundredth of an acre).
- 6.** The location and total width of all public streets, alleys, pedestrian ways, equestrian and hiking trails and biking paths, and rail road rights-of-way; the names of public streets, and the width on each side of the center line of each public street; the width of the portion of the street, alley, pedestrian way, equestrian and hiking trail and

bike path being dedicated, and the width of the existing dedication, public or private, if any, within the subdivision.

7. All necessary data, including width and sidelines of all proposed and existing public utility easements to which the lots of the subdivision are subject. Each easement shall be clearly labeled as to nature and purpose and, if already of record, its recorded reference given. If an easement of record cannot not be plotted on the map because its location is not defined or indefinite, an attempt shall be made to have the easement extinguished and removed from title. Easements shall be denoted by fine dashed lines.
8. All limitations on rights of access to and from streets and lots and other parcels of land.
9. The lines of any natural watercourse, channel, stream, creek or body water in or adjacent to the subdivision and/or officially adopted floodplain lines, which constitute parcel boundary lines or easement lines.
10. Any City boundary crossing or adjoining the subdivision clearly designated and tied in.
11. Total acreage within the subdivision.
12. The basis of bearings used in the field survey, making reference to some recorded subdivision map or other source acceptable to the City Engineer.

D. Additional Data Required – The following statements, documents and other data, and as many additional copies thereof as may be required shall be filed with the parcel or final map:

1. On the application form, the names, addresses, and telephone numbers of the record owners and subdivider and persons preparing the Parcel or Final Map.
2. A guarantee of title or letter from a title company, certifying that the signatures of all persons whose consent is necessary to pass a clear title to the land being subdivided and all acknowledgements thereto, appear and are correctly shown on the proper certificates, and are correctly shown on the final map; both as to consents for the making thereof and the affidavit of dedication.
3. A traverse computations sheet in a computerized form approved by the City Engineer; giving bearings, distances and coordinates, and showing the mathematical closure. No manual computations will be

accepted. All lots must close to within 0.02 feet or as specified by the City Engineer. Each sheet of survey closures shall be numbered sequentially.

4. All protective covenants, restrictions, or affirmative action obligations in the form in which the same are to be recorded when approval thereof by an officer of the City has been required as a condition of approval of the Tentative Map.
5. All offers of dedication by separate instrument shall conform to Section 2-11 of the Design Standards; and any offer of dedication by separate instrument for fee title shall conform to Chapter 18.16.060F and Chapter 18.16.100 of the Roseville Municipal Code.

Whenever an offer of dedication by a separate instrument accompanies a Parcel or Final Map, the Parcel or Final Map shall not be accepted for filing by the City Engineer until he first approves the instrument of recordation.

6. All other data required by law as a condition of approval of the Tentative Map, including plans, reports, agreements, permits, fees security or other requirements.

E. Subdivision Agreement- If the required improvements for the subdivision have not been completed to the satisfaction of the City Engineer and accepted by the City Council prior to recording of the Parcel map or Final Map, the Subdivider shall enter into a Subdivision Agreement with the City. The form of the agreement shall be as approved by the City Attorney, and said agreement shall be approved by the City Council and recorded concurrent with the Parcel or Final Map. See Section 2-25C for more information on subdivision agreements.

- 3-7 PROPERTY OF CITY-** All plans, maps, reports and any other items submitted to the City shall become the property of the City. The City shall not be responsible for the return of these items once they are submitted.

SECTION 4

TRAFFIC IMPACT STUDIES

- 4-1 GENERAL** – The City of Roseville has established the following guidelines for the preparation of traffic studies to ensure consistency of analysis and adequacy of information to aid City staff and decision makers in the consideration of project approval with regard to impacts to the City's transportation system.
- 4-2 PURPOSE OF TRAFFIC IMPACT STUDIES** – Traffic impact studies are an important tool in the overall development planning process (residential, commercial, industrial, institutional, etc.) for the City. They provide the necessary information to allow an assessment of the potential traffic impacts associated with proposed projects as they relate to transportation policies established by the City. Traffic impact studies are also used to identify appropriate mitigation and/or recommendations where practicable to offset project impacts.
- 4-3 RESPONSIBILITY FOR TRAFFIC IMPACT STUDIES** – The City utilizes on-call transportation services with approved transportation Consultants for the preparation of all city-required transportation studies. Traffic impact studies, when required by the City, shall adequately assess the impacts of a development proposal on the existing and/or planned street system.

Applicants should contact the Planning Department as early as possible and provide a site plan with proposed land use and associated square footages prior to submitting an application so that the City can evaluate the traffic study requirements. Should it be determined that a traffic study will be required, the City will provide an estimated cost, scope and scheduled for the study, and the project applicant will be required to authorize the City to proceed with the traffic study and deposit the necessary funds prior to the City commencing with the study.

Note: The City will not accept traffic studies prepared directly by an applicant's traffic/transportation Consultant.

- 4-4 TYPES OF TRAFFIC IMPACT STUDIES** – The flow chart shown in Figure 4-1 shall be used to determine when and what type of traffic study may be required for proposed development projects. The City utilizes both short-term and long-term traffic studies for assessing the potential impacts of a proposed project.

Short-Term Traffic Studies – The primary purpose of a short-term traffic study is to identify the project's impact to the roadway network under existing and/or near-term conditions and to evaluate proposed site access. Where access points are not defined at the time the traffic study is

prepared, additional analysis may be required when the access points are defined.

When only short-term traffic studies are prepared, they shall include an explanation as to why the future scenario need not be analyzed (e.g., the proposed land use is consistent with the General Plan, therefore the project's long term traffic impact is already accounted for via the City's Capital Improvement Program which was derived from the City-wide traffic model).

Long-Term Traffic Studies – Long-term traffic studies are generally required when a proposed project will generate greater than 50 p.m. peak hour trip ends and the land use is not consistent with the assumptions of the City's travel demand forecasting model, with regard to intensity of development and/or type of use.

Cumulative traffic impacts are evaluated using the latest version of the City's CIP travel demand model. A LOS comparison of with and without project conditions for all signalized intersections (existing & future) is reported and intersections that degrade from acceptable to unacceptable (per the City's current LOS policy) shall be identified and appropriate mitigation identified where feasible. The term "impact" in this case refers to violation of the City's intersection LOS policy as described below: Maintain a level of service (LOS) "C" standard at a minimum of 70 percent of all signalized intersections and roadway segments in the City during the p.m. peak hours or causing an intersection operating at LOS "C" to operate at worse than LOS "C". Exceptions to the LOS "C" standard may be considered for intersections where the city finds that the required improvements are unacceptable based on established criteria identified in the implementation measures. In addition, Pedestrian Districts may be exempted from the LOS standard.

Both short-term and long-term traffic analysis shall include graphics that show traffic volumes for private access points, study intersections and roadway segments, as required:

1. Existing P.M. peak hour directional roadway traffic volumes including turning movements at intersections. (Short-Term)
2. The data in item 1 above plus projected site traffic volumes for the development scenario being analyzed. Include projected turning movements at driveways. It is acceptable to combine items 1 and 2 into one graphic. (Short-Term)
3. Future P.M. peak hour directional roadway traffic volumes including turning movements at intersections without the project. (Long-Term)

4. The data in item 3 above plus projected site traffic volumes. Include projected turning movements at driveways. It is acceptable to combine items 3 and 4 into one graphic (Long-Term).

TRAFFIC STUDY DETERMINATION

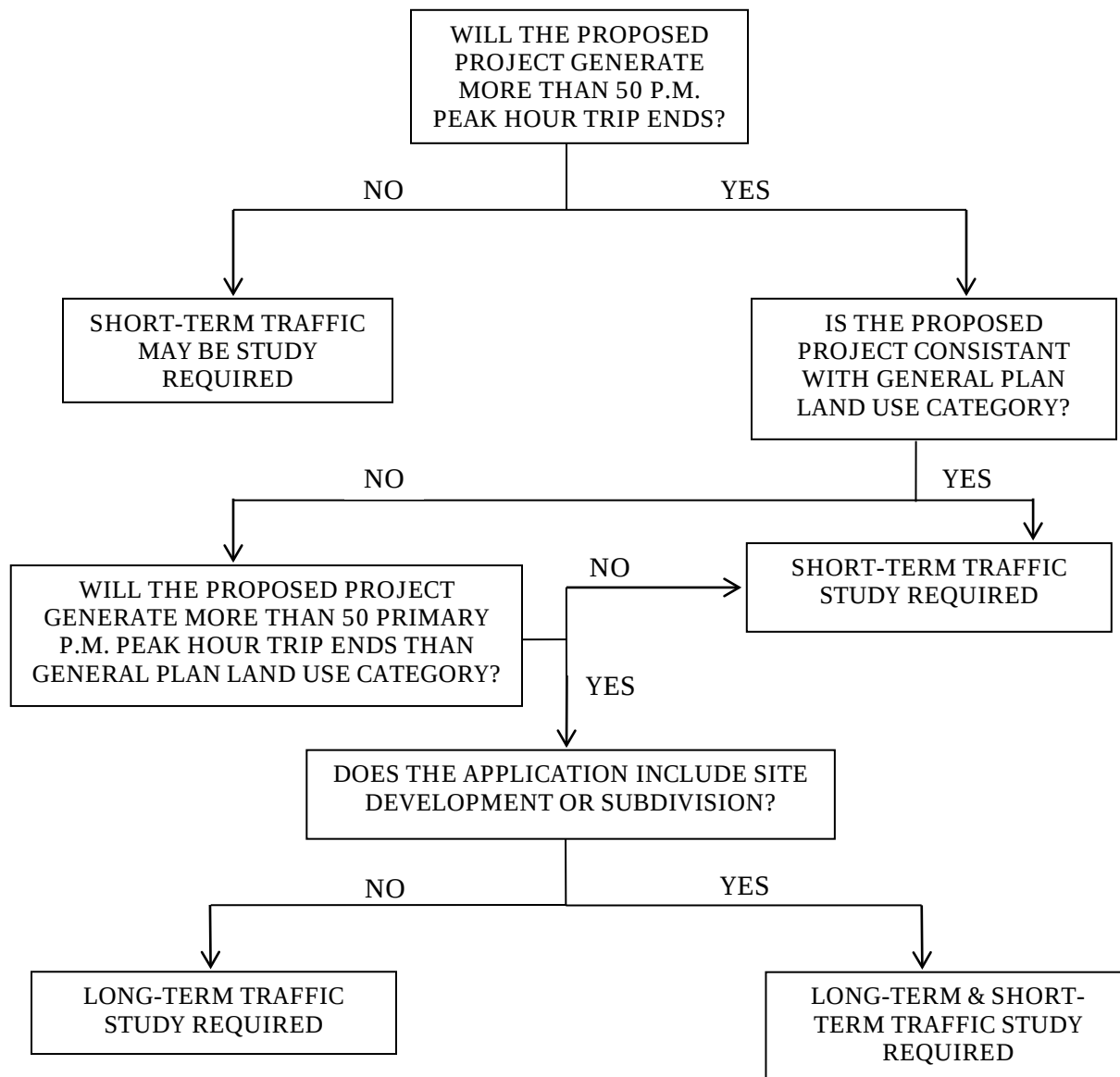


FIGURE 4-1

Other peak hours that are determined by the City to be critical to site traffic and the street system in the study area shall be included and shall show the same information as is provided for above. Examples of other peak hours are A.M. peak, noon peak, and project peak.

Note: All previous traffic studies that are more than two years old will generally be required to be updated unless the Development Services Engineering Division determines that conditions have not changed significantly.

4-5 TRAFFIC STUDY FORMAT – In order to provide consistency and to facilitate staff review, the following format shall be used in the preparation of such studies by transportation consultants:

A. Introduction – The introduction of the report shall contain the following:

1. **Project Location and Study Area** – A brief description of the location within the City and the region shall be included in the section. In addition, roadways that afford access to the site and those that are included in the study area shall be identified. General terrain features within the study area should also be described.

The exact limits of the study area should be based on engineering judgment and an understanding of existing traffic conditions surrounding the site. In all instances, however, the study area limits shall be subject to approval of the Development Services Engineering Division. A vicinity map that shows the site and the study area boundaries in relation to the surrounding transportation system shall be included.

2. **Existing and Proposed Site Uses** – The existing and proposed uses of the site shall be identified in terms of the various zoning categories of the City. In addition, the specific use for which the request is being made shall be identified, if known, since a number of uses may be permitted under existing zoning. Parcels in the vicinity of the site shall also be identified with respect to the zoning, land use and specific uses. This information shall include square footage of the various uses or the number and size of the units proposed. All driveways in the vicinity of the project that could affect operations of any proposed driveways shall also be shown.

It shall be the intent of the traffic study to evaluate the worst-case impacts for the proposed development allowed by zoning unless a specific use/users is identified by the applicant. IF several different uses are permitted by the zoning, the land use with the greatest overall traffic impact shall be assumed for the study.

3. **Study Area Conditions** – Within the study area, the traffic study shall describe and provide volumes for existing roadways, intersections, and driveways including geometric and traffic signal control as well as improvements that have been proposed by government agencies and other development projects. The study shall identify roadway improvements within the study area that are

planned to be constructed by the City as part of the City's Capital Improvement Program.

Note: The City will provide copies of current traffic count information, where available; however, the Consultant is ultimately responsible to provide up-to-date traffic volume count information for all study locations. Traffic count information for many locations is available on the City's website. Please visit the following link for more information: http://www.roseville.ca.us/pw/engineering/traffic_engineering/default.asp

- B. Project Trip Generation** - A summary table listing each specific use, the size involved, the trip generation rates used (total daily traffic and A.M. /P.M. peak hours), and the resultant total trips generated shall be that of a typical weekday and shall coincide with the peak hour of the roadway system (not the peak hour of the project); however, there may be instances where a unique project use requires an analysis during different time frames, such as a weekend.

This section shall also include a discussion on how the project's trip generation rate compares with typical trip generation rates for the site's existing General Plan land use category. If the proposed project represents only a portion of a larger overall site, such as a phased project, then the traffic study shall discuss the degree to which both the initial phase and the ultimate development impact the roadway network.

Trip generation shall be calculated based on data contained within the latest edition of the Institute of Transportation Engineer's (ITE) Trip Generation Manual approved for use by the City or more appropriate local data as approved by the Development Services Engineering Division. Any internal trip reductions or modal split assumptions will require analytical support to demonstrate how the figures were derived.

Pass-by trip factors may be used to reduce the estimated additional traffic to streets serving a proposed development; however, the percentage of pass-by traffic shall be documented and referenced as to the source of the assumptions (e.g., ITE Trip Generation Manual, ITE Journal article, local study, etc.). Pass-by rates are not to be applied to reduce turning movement volumes at driveways serving the proposed development.

- C. Trip Distribution** – The directional distribution of trips entering and departing the proposed project site shall be clearly identified on a figure. The methodology of distribution shall be discussed in the study.

D. Traffic Assignment – The assignment of site-generated traffic onto the area's street system shall be clearly depicted on a map/figure. The traffic assignment shall consider the general trip distribution, logical routing, turn movement restrictions, available and projected roadway capacities and travel times. The technical analysis steps, basic methods, and assumptions used in this work shall be clearly stated.

E. Level of Service – The traffic study report shall include appropriate tables indicating the LOS and volume/capacity (V/C) of all study intersections and roadway segments, comparing with and without project scenarios. Signalized intersections shall be evaluated using the Transportation Research Board (TRB) Circular 212 planning methodology, or Highway Capacity Manual methodology, as determined by the Development Services Engineering Division, with the City-approved critical capacity adjustments. There may be instance where the City desires to evaluate signalized intersections utilizing the 'operations methodology' as described in the latest edition of the Highway Capacity Manual. In such instances, the City will provide direction to the Consultant in the development of the scope of the traffic study. Unsignalized intersections shall be analyzed using the latest version of the Highway Capacity Manual, or other appropriate methodology as approved by the Development Services Engineering Division.

A minimum intersection Level of Service "C" shall be the peak hour design objective. If the proposed project is shown to cause degradation of intersection LOS to worse than "C" (or whichever LOS has been approved by the City Council for a particular intersection) after considering any improvements already planned by the City, then the traffic study shall recommend feasible mitigation measures to bring the intersection Level of Service within acceptable standards in accordance with the City's LOS policy. The Consultant shall inquire with the Development Services Engineering Division as to planned roadway and intersection improvements.

The report shall include a discussion of assumptions made in the above calculations, such as saturation flow rates, peak hour factors, and lane configurations. Full documentation of the LOS calculations shall be provided in an appendix.

F. Site Access – A short-term traffic study shall discuss how the proposed site access compares with the City's access standards as described in this section and in Section 5 of these Design Standards entitled "Site Access." Some of the topics that must be included in the traffic study are: number of driveways serving a parcel or site, right turn deceleration lane or right turn curb flares for driveways, left turn deceleration lane for driveways, storage requirements for turn lanes, minimum offset for opposing driveways, restricted turning movements for driveways, and sight distance. Each site access point shall be

discussed separately. If the proposed site access does not meet the City's standards, then the traffic study shall identify what modifications to the proposed site access would be necessary to meet City standards and explain why these modifications are not proposed.

1. Driveways – Minimum Required Throat Depth (MRTD)

The traffic study shall evaluate the Minimum Required Throat Depth (MRTD) needed on-site for each access point for the proposed development. The MRTD, as illustrated in Figure 4-2 entitled "MINIMUM REQUIRED THROAT DEPTH", is measured from the back of sidewalk to the first drive aisle or parking stall. The purpose of the MRTD is to allow enough stacking distance for egressing vehicles so that the first drive aisle or parking stall is not blocked. This minimizes the possibility of incoming vehicles queuing out into the traveled way of the main street thereby creating a safety concern as shown in Figure 4-2.

The MRTD shall be measured in car length increments of 25 feet and rounded up to the nearest division of 25 feet. In no case will the City allow a MRTD of less than 25 feet for any project. Throat depths greater than the calculated MRTD are encouraged. On-site parking shall not be permitted within the MRTD area.

Note: The MRTD requirement does not apply to single family residential or duplex uses.

Figure 4-2 illustrates that the MRTD is a function of the length of the queue of vehicles waiting to exit the driveway. The length of this queue is a function of two variables: the number of vehicles desiring to egress during a given time period versus the number of vehicles that can enter the traffic stream of the main road during that same time period.

If the proposed project represents only a portion of a larger overall site, or if it is expected that vehicles generated by other than the project will use the access under study, then the total expected turning movement volumes at the subject access location shall be used in determining the MRTD.

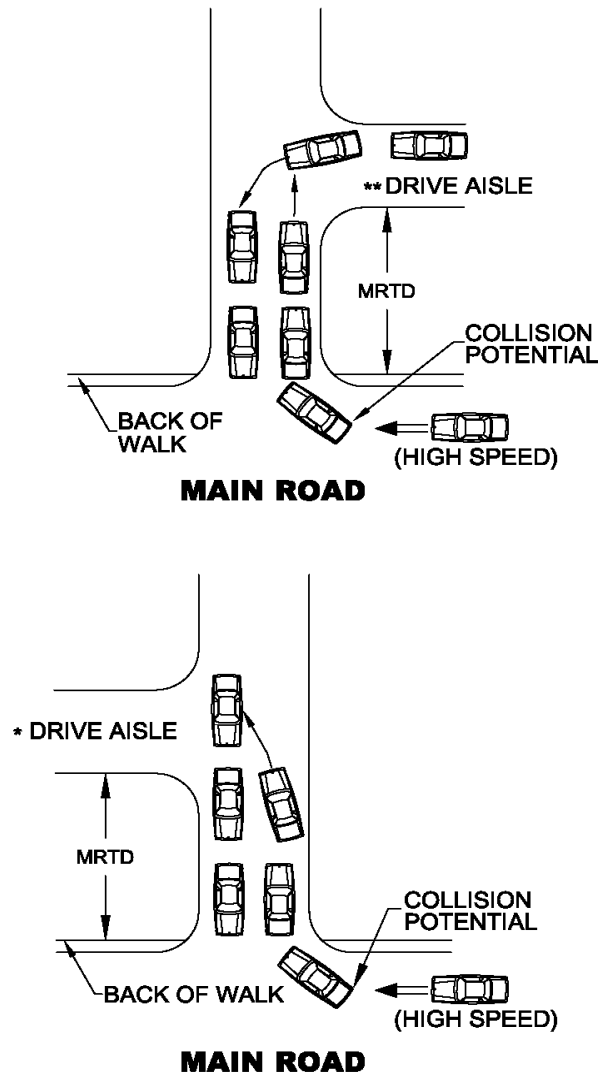
As shown in Figure 4-2, there are cases when a MRTD of 25 feet is acceptable. This is when the first drive isle is "one way only" to the right in the figure. Another scenario where a MRTD of 25 feet is acceptable is when a raised center median is constructed in the driveway throat from the back of sidewalk to the calculated MRTD distance. In this case, the nearest drive aisle can be two-way, but turning movements into and out of the

drive aisle are restricted by the raised median, thereby mitigating the concern as shown in Figure 4-2.

If the calculated MRTD is physically or unreasonable too long for the proposed development, then the traffic study shall suggest ways to reduce the MRTD by either reducing the egressing demand volume, or by increasing the movement capacity. Examples of reducing the egressing demand volume at an access location would be to suggest additional egress locations, cause a different distribution of vehicles by modifying the on-site design, or somehow reduce the site's trip generation. Examples of increasing the movement capacity at an access location would be to suggest additional egress lanes or, in the case of an unsignalized access location, suggest fewer allowed turning movements onto the roadway. In any case, the traffic study shall fully evaluate the impacts of any such modifications.

MRTD lengths at **unsignalized** project driveways shall be based on a series of regression equations that the City uses to predict maximum queue lengths at minor stop-controlled intersections. These equations are based on the methodology presented in *Estimation of Maximum Queue Lengths at Unsignalized Intersections* (ITE Journal, November 2001). Exhibit 4-1 presents the methodologies used for calculating the MRTD for various unsignalized driveway conditions. Major street volumes shall be based on projected future traffic volumes from the latest version of the Citywide traffic model. Alternative methodologies for calculating unsignalized MRTD lengths may be considered, but shall first be approved by the Development Services Engineering Division prior to incorporation into traffic studies.

MINIMUM REQUIRED THROAT DEPTH (MRTD)



* NOTE: IF THE DRIVE AISLE IS "ONE-WAY ONLY" TOWARDS THE DRIVEWAY THROAT, THEN A MRTD OF 25' IS ACCEPTABLE.

** NOTE: IF THE DRIVE AISLE IS "ONE-WAY ONLY" AWAY FROM THE DRIVEWAY THROAT, THEN A MRTD OF 25' IS ACCEPTABLE.

FIGURE 4-2

MRTD lengths at **signalized** project driveways are a function of egressing traffic volumes, lane geometrics and traffic signal timing. Typically, signalized access locations will have more than one approach lane for egressing vehicles; therefore, the MRTD shall be determined from the lane with the longest queue. The MRTD should be based on the Operational Analysis methodology contained in the latest version of the Highway Capacity Manual, or other methodology as approved by the Development Services Engineering Division. Major street volumes shall be based on projected future traffic volumes from the latest version of the Citywide traffic model. For existing traffic signals, the Consultant is recommended to discuss likely signal timing parameters with City staff. There may be some restrictions to signal timing parameters for existing signals due to progression, etc.

2. “Drive-Thru Service” Uses – On-Site Storage Requirements for traffic studies evaluating “drive-thru service” type land uses, the study shall evaluate vehicle storage requirements to ensure that vehicles will not queue out into the public right-of-way. Such types of uses/conditions include, drive-thru restaurants, drive-thru pharmacies, carwash facilities, gated communities, gated self-storage facilities, parking garages etc. The required storage length shall be determined based on expected arrival rates and service rates using accepted statistical practices. The distance is measured from the back of sidewalk at the street driveway to the service point in increments of 25 feet. All supporting assumptions and calculations shall be provided in the appendix.
3. Left-Turn Ingress Storage Requirements
Left-turn ingress lanes serving the proposed project shall be evaluated with respect for turn lane storage/deceleration lengths. The left-turn storage shall be based on the regression equations that the City uses to predict maximum queue lengths at left-turn lanes based on the methodology presented in *Estimation of Maximum Queue Lengths at Unsignalized Intersections* (ITE Journal, November 2001). Table 4-1 presents the regression equation for approximating left-turn storage requirements for major-street left-turn movements. Major street through volumes shall be based on projected future traffic volumes from the latest version of the Citywide traffic model. Alternative methodologies for calculating storage lengths may be considered, but shall first be approved by the Development Services Engineering Division prior to incorporation into traffic studies.

G. Traffic Signals – The need for new traffic signals shall be based on warrants contained in the latest edition of the California Manual of Uniform Traffic Control Devices (California MUTCD), or other approved source identified by the Development Services Engineering Division.

Where intersection controls are warranted on a two or four lane roadway, and at the direction of either the Public Works Director or the City Engineer, a formal evaluation shall be completed by the developer to identify the feasibility and operating benefits of a roundabout. The evaluation shall analyze space requirements and whether the installation of a roundabout would perform better than other control modes by reducing delay, improving safety, or solve other operational issues.

If a new traffic signal is being proposed which is not already a part of the City's Capital Improvement Program, and the signal installation would result in less than 1,320 feet between signals, then the study shall include a signal progression analysis. The section of roadway to be analyzed for signal progression shall be determined by the Development Services Engineering Division and will include all existing and planned future signalized intersections.

The progression pattern calculations shall use a cycle consistent with current signal timing policies of the City. A desirable bandwidth of 50 percent of the signal cycle shall be used where existing conditions allow. Where intersections have no existing signals presently, but are expected to have planned future signals, typically a 60 percent mainline, and 40 percent cross street cycle split should be assumed. Cycle split assumptions shall relate to volume assumptions in the capacity analysis of individual intersections, and, where computerized progression analysis techniques are used, they shall be of the type which utilizes turning movement volume data and pedestrian clearance times in the development of time/space diagrams.

Those intersections that would reduce the optimum bandwidth if a traffic signal were installed may be required to remain unsignalized and have turning movements limited by access design or median islands.

Traffic studies for proposed projects located along a corridor that either currently has or is proposed to have coordinated traffic signals shall provide a new or updated traffic signal coordination plan along the entire section of coordinated roadway. This plan shall be created and modeled with the latest version of traffic signal optimization software used by the City. City staff shall be allowed to review and comment on the proposed coordination plan and staff suggestions shall be included in the final plan submitted with the

traffic study. The coordination plan shall consider, at a minimum, the A.M., mid-day, and P.M. periods of the day. More periods may be necessary if determined by staff to be relevant. The electronic coordination file shall be delivered along with the paper coordination plans contained in the traffic study and they shall become the property of the City.

- H. Traffic Accidents** – Traffic accident data for affected street corridors may be required in the study as required by the City. The study period will normally be three years. The locations shall be specified by the Development Services Engineering Division and the Public Works Department. Accident data is on file in the Public Works Department. It shall be the Consultant's responsibility to make copies of the data.

Estimates of increased or decreased accident potential shall be evaluated for the development, particularly if the proposed development might impact existing traffic safety problems in the study area. Safety improvements shall be recommended where necessary.

- I. On-Site Circulation** – Where applicable, the Consultant shall review and evaluate the site plan with respect to vehicular and non-vehicular circulation and safety. All recommendations shall be clearly documented in the report.

- J. Report Documentation** – The analysis conducted for traffic studies shall be documented in a report for review by the City, with supporting tables and figures.

An executive summary shall be provided that clearly and concisely describes the project scope and purpose, findings, conclusion, and mitigation measures and recommendations. Technical publications, calculations, data reporting and detail design shall not be included in the executive summary. The executive summary should be short, complete in itself and not dependent on supplementary data included by reference.

A table of contents, list of tables & figures and an appendix with supporting data, calculations, etc., should also be included, when appropriate to produce a professional and readable document.

- 4-6 PREPARATION AND SUBMITTAL REQUIREMENTS** - The following requirements shall pertain to all traffic studies, unless otherwise directed by the City staff.

1. Traffic studies shall be prepared and stamped by a Registered Traffic Engineer or a Registered Civil Engineer with demonstrated

competence and adequate experience in Transportation Engineering.

2. Initially, **five (5)** hard copies and one (1) electronic version of the Draft traffic study shall be submitted to the Development Services Engineering Division for review and comment. The City will forward one hard copy to the applicant for the review.
3. Upon completing their review, the City will provide the Consultant with comments and discuss revisions to be incorporated into the final report.
4. The Consultant shall submit **three (3)** hard copies and one (1) electronic version of the Final traffic study.
5. All copies of the traffic study submitted to the City shall become the property of the City.
6. Traffic studies that are not in compliance with the requirements set forth in these Design Standards may be rejected until corrected to the satisfaction of the City.

Exhibit 4-1
Minimum Required Throat Depth Regression Equations
(Unsignalized Project Driveways)

Regression Equations		
Movement	Condition	Equation
Major-street left turn	Approach volume $\leq$ 100 VPH/PHF	Max. Queue = $-2.042 + 1.167 \ln(\text{AppVol}) + .0975 \cdot \text{TS}$
	Approach volume $>$ 100 VPH/PHF	Max. Queue = $+4.252 - 1.23 \cdot \text{Lanes} + 0.07996 \cdot \text{Speed} + 1.412 \cdot \text{TS} - 374.028 / \text{AppVol} + 0.00001144 \cdot \text{AppVol} \cdot \text{ConflVol}$
Minor-street left turn	Approach volume $\leq$ 100 VPH/PHF	Max. Queue = $+0.958 + 0.00111 \cdot (\text{AppVol})^2 + 0.000333 \cdot (\text{ConflVol})$
	Approach volume $>$ 60 VPH/PHF	Max. Queue = $+6.174 - 2.313 \cdot \text{TS} + 0.03307 \cdot \text{Speed} - 1201.644 / \text{ConflVol} + 0.00006549 \cdot (\text{AppVol})^2$
Minor-street right turn	See Graph on Exhibit 4-2	

Minor-street shared Left/through/right	All conditions	$\text{Max. Queue} = -12.916 + 3.225\ln(\text{AppVol}) + 0.00569 * (\text{ConflVol for LTs \& THs}) - 0.000177 * (\text{ConflVol for Rts}) - 2.109 * (\text{RT}\%) - 3.157 * \text{TS}$
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Source: Fehr & Peers, Transportation Consultants
Based on the methodology presented in *Estimation of Maximum Queue Lengths at Unsignalized Intersections* (ITE Journal, November 2001).

AppVol = hourly traffic volume divided by peak-hour factor (PHF) for subject movement;

ConflVol = hourly traffic volume divided by PHF that conflicts with subject movement (refer to the *Highway Capacity Manual 3* to identify movements that conflict with subject approach);

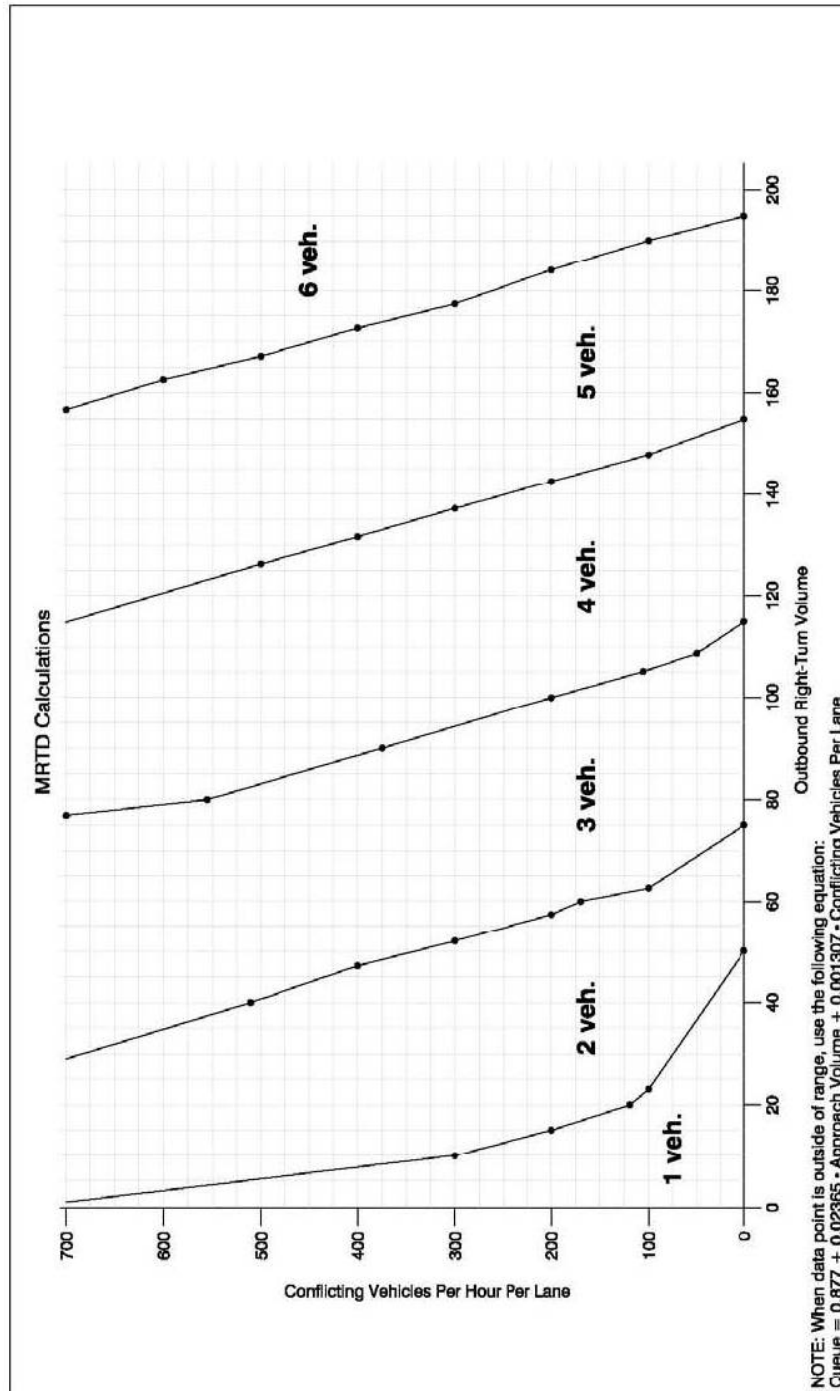
TS = a dummy variable with a value of 1 if a traffic signal is located on the major street within one-quarter mile of the subject intersection and 0 otherwise;

Lanes = number of through lanes occupied by conflicting traffic;

Speed = posted speed limit on major street (in miles per hour); and

RT % = Percentage of vehicles on shared left/through/right minor street approach that turn right.

Exhibit 4-2 Minimum Required Throat Depth For Right-Turn Only Movements



MAXIMUM QUEUE ESTIMATES FOR
UNSIGNALIZED RIGHT-TURN DRIVEWAYS

FEHR & PEERS
TRANSPORTATION CONSULTANTS
Jan 28, 2007 MJP
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(Unsignalized Project Driveways)

SECTION 5

SITE ACCESS

This section establishes requirements for site access and driveway locations.

- 5-1 GENERAL** – Driveways shall meet sight distance requirements as discussed in Section 7-12 of these Design Standards for both ingressing and egressing movements. Driveway width, type and design shall conform to Section 7-14 of these Design Standards.

Backing of vehicles out of driveways onto the roadway shall only be permitted for single family residential or duplex land use. Other land uses shall be designed so both ingressing and egressing vehicles are traveling forward.

Driveways shall be located to provide at least five (5) feet between the driveways's traveled way and appurtenances such as fire hydrants, poles, and drop inlets.

The City recognizes that infill projects (projects within older, previously developed areas) may have certain constraints such as lot size, existing driveways near the property line on adjacent parcels, etc. which may deem it impractical to achieve the requirements contained in these Design Standards for site access. Infill projects such as these will be evaluated on a case-by-case basis by the City. However, the goal will be to achieve the requirements contained herein to the extent practicable.

NOTE: Distances discussed below are measured to driveway centerlines. Where distances refer to an intersection, the intersection point of reference is the near curb return.

- 5-2 DRIVEWAY LOCATIONS ON MINOR AND PRIMARY RESIDENTIAL STREETS** – For single family residential or duplex, the following shall apply:

- A.** Driveways shall be at least ten (10) feet apart as measured edge to edge, except in cul-de-sac bulbs and the outside portion of elbows, where the minimum shall be five (5) feet. For corner parcels, the driveway shall front whichever street is projected to have a lower traffic volume, and the driveway shall be located as far from the curb return as possible, i.e., at the far end of the lot.

For Land uses other than single family residential or duplex, the following shall apply:

B. Driveways shall be at least 100 feet apart. There shall be no driveways within 100 feet of an intersection. Where residential streets intersect collector or arterial streets there shall be no driveways on the residential streets within 150 feet of said intersection.

5-3 DRIVEWAY LOCATIONS ON COLLECTOR OR ARTERIAL STREETS – There shall be no driveways along collector or arterial streets serving single family residential or duplex land uses. Driveways fronting roadways which have been classified in the General Plan as expressways shall be at least 500 feet apart, shall be right-turn-in, right-turn-out only, and shall have a standard right turn deceleration lane. No portion of a driveway shall be allowed within the straight portion of an acceleration or deceleration lane, however, driveways are permitted within acceleration and deceleration lane tapers. No portion of a driveway shall be allowed within a separate bus turnout, including tapers.

Driveways shall be at least 200 feet apart on collector streets and at least 250 feet apart on arterial streets. Driveways on collector streets shall be at least 150 feet from a collector/collector or a collector/arterial intersection or per standard drawing ST-46 if the collector has a right turn lane.

5-4 NUMBER OF DRIVEWAYS SERVING A PARCEL OR SITE – For single family residential or duplex land uses, only one (1) driveway per parcel will be permitted, except where circular drives are proposed and approved by the City Engineer.

For other land uses, the number of driveways shall be minimized, but not to a point that could cause local congestion within the public right-of-way. Consolidation of driveways with adjacent parcels shall occur whenever possible. Where driveway location standards cannot be met for a parcel, the City may require the only access to that parcel be achieved via cross access over an adjacent parcel. This shall satisfy legal requirements for access to a parcel, and the City therefore shall not be required to permit direct access to any parcel via a driveway along the parcel's frontage.

Where land uses other than single family residential or duplex are adjacent, the City typically requires cross access to minimize motorists having to use the street to get from one development to another.

For projects requiring a Traffic Study, the study shall evaluate the proposed site access for the project (see Section 4-5 (F), "Site Access"). The study shall discuss balancing the number of driveways for the project so the number of driveways is minimized, while still providing a sufficient number of access points to minimize congestion and delay.

5-5 RIGHT TURN DECELERATION/ACCELERATION LANES FOR DRIVEWAYS – A right turn deceleration lane shall be provided for a driveway if all of the following conditions are met:

- A. The driveway is located on an arterial or expressway.
- B. Right turn ingress volume is expected to exceed fifty (50) during peak hour flows on the roadway. For right turn ingress volumes between ten (10) and fifty (50) a right turn curb taper shall be constructed in conformance with the Standard Drawings.
- C. There is ample room and frontage to fit a deceleration lane as determined by the City Engineer.
- D. The travel speed of the roadway, as determined by the City Engineer, equals or exceeds 45 mph.

There may be cases where some of the above criteria are not met, but City staff may still require a deceleration lane in the interest of safety.

There may be cases where it will be necessary to merge a deceleration lane with an existing acceleration lane. Where the beginning of a deceleration taper will be within 100 feet of the end of acceleration taper, then the deceleration and acceleration shall be merged to form a continuous auxiliary lane.

There may be cases where it is desirable to provide room for right turn deceleration, but an entirely separate deceleration lane is either too difficult to install, due to design constraints, or is not reasonable. In these cases, a right turn curb taper shall be provided in accordance with the Standard Drawing.

Right turn acceleration lanes for driveways shall not be provided.

5-6 LEFT TURN DECELERATION/ACCELERATION LANES FOR DRIVEWAYS – Left turn deceleration lanes (left turn pockets) are not required on collector or residential streets.

On arterials and expressways and where left turns in will be permitted, a left turn deceleration lane shall be provided. This may be in the form of a separate left turn pocket on a six (6)-lane road, or a continuous two (2)-way-left-turn-lane on a four (4)-lane road. The minimum left turn pocket length shall be 200 feet plus a 120 foot entry taper. Longer left turn pockets may be required if a Traffic Study demonstrates the need.

Separate left turn acceleration lanes are not typically required.

5-7 MINIMUM OFFSET FOR OPPOSING DRIVEWAYS- For land uses other than single family residential or residential duplex, the centerline of driveways on opposite sides of the street shall either be in direct line, or have a minimum offset distance as listed below (measured from the centerline of the driveways):

- A.** For driveways on minor and primary residential streets the minimum offset shall be 150 feet.
- B.** For driveways on collectors the minimum offset shall be 200 feet.
- C.** For driveways on arterials and expressways the minimum offset shall be as specified in detail ST-47.

Where a raised median is provided along the center of the street separating conflicting turning movements, the offset requirements as stated above will not apply.

5-8 RESTRICTED TURNING MOVEMENTS FOR DRIVEWAYS – Turning movement restrictions shall apply to unsignalized driveways on arterial and expressway streets as listed below:

- A.** Left turns out of driveways onto six (6)-lane roads shall be prohibited.
- B.** On six (6)-lane roads, driveways within 400 feet of an intersection containing left turn pockets shall be right turn-in, right turn out only. No driveways will be permitted in Zones One (1) and Six (6) as shown in detail ST-46.
- C.** On 6-lane roads, left turns into driveways may be allowed if all of the following conditions are met:
 - 1.** The standard left turn lane length and bay taper can be achieved.
 - 2.** Opposing traffic will not queue-up to the point of blocking the left turn in movement. Such a queuing calculation shall be provided by the Consultant preparing the Traffic Study for the project, and the analysis shall use the City's projected modeled traffic volumes for the model's horizon year.
 - 3.** The driveway is at least 400 feet downstream and 600 feet upstream of an intersection containing left turn pockets.
- D.** On four (4)-lane roads, see detail ST-46 for permitted turning movements.
- E.** Turning movements may be restricted for any driveway where deemed necessary by the City Engineer because of safety concerns.

5-9 SIGNALIZED DRIVEWAYS – The need for signalized driveways shall be based on warrants contained in the latest edition of the Caltrans Traffic Manual. Any such evaluation shall be performed by the Consultant as part of the Traffic Study for the project. For a more detailed description of a traffic signal that needs assessment, refer to Section 4-5 (G) (Traffic Impact Studies) of these Design Standards. Attention is directed to signal

spacing requirements as discussed in that section. The City will typically deny a request for a new signal if spacing requirements cannot be met.

Attention is also directed to Section 4-5 (F) for Minimum Required Throat Depth (MRTD) for signalized access locations.

The City does not share in the cost of design and construction of traffic signals which solely serve private property (i.e. a “tee” intersection where the driveway is situated as the “stem” of the “tee”). The Developer shall bear all costs of providing signalization at the private access point, including design and construction. In the case where a private access point comprises the fourth (4th) leg of an intersection where the other three (3) legs are public streets, the Developer shall ultimately be 100% financially responsible for the private leg (or approximately one-fourth the cost of signalizing the intersection). The obligation is in addition to sharing in the cost of the remaining signal via payment of the City’s Traffic Mitigation Fee.

See Section Six (6) of these Design Standards for more information on traffic signals.

The interconnect shall connect the subject signal with at least one existing traffic signal. If the subject signal is between two existing signals, the interconnect shall connect all three signals.

If a City Parcel is adjacent to a new fiber run, a fiber stub shall be provided.

Unless specified otherwise on the plans, six (6) feet of copper and/or fifteen (15) feet of fiber optic cable slack shall be provided in each pull box. Fifty (50) feet of copper and/or one hundred (100) feet of fiber optic cable slack for each signal interconnect cable run shall be provided in the dedicated communications Home Run pull box in front of each signal controller or the last pull box before the controller if a dedicated communications Home Run pull box is not available.

Signal interconnect cable (SIC) shall be 9/125 μm wavelength, 72 to 216 strand, single mode, indoor/outdoor, loose tube, all-dielectric fiber optic cable as specified on the plans. 24 strand fiber shall be allowed where the majority of a pre-existing SIC conduit run’s pull boxes are smaller than No. 6.

- 5-10 MINIMUM REQUIRED THROAT DEPTH** - Driveways shall meet the Minimum Required Throat Depth (MRTD) requirements as discussed in Section 4-5 (F) of these Design Standards. In the case of “drive-thru” facilities, attention is directed to the latter part of Section 4-5 (G) for minimum on-site storage distances for ingressing vehicles.

On-site parking shall not be permitted within the MRTD area. The MRTD requirement does not apply to single family residential or duplex land uses.

In cases where a Traffic Study is not required or in cases where there is insufficient data available to calculate the MRTD in accordance with Section 4-5 (F), Exhibit 4-2 shall be used to determine Minimum Required Throat Depth for access points for the site. In cases where a traffic study will be provided, but the access points have not yet been determined for a site, Exhibit 4-2 shall be used to estimate the MRTD during the site design process. In these cases, the final MRTD requirements shall be determined by the Traffic Study via the methodology in Section 4-2 (F). The distances shown in Table 5-1 represent vehicle storage equivalents, which means the total required distance may be achieved by summing the throat depths for several access points if more than one access point is to serve the site. In these cases, the distance shown in Exhibit 4-2 shall be prorated to each access point to the nearest 25 feet based on the estimated relative percent usage of each access point.

**TABLE 5-1
MINIMUM THROAT DEPTH**

LAND USE	SIZE			STREET RIGHT-OF-WAY		
				<60'	60'	>60'
Apartment, Condos, Mobile Homes, Planned Unit Development	0	-	80 units	25'	50'	50'
	81	-	160	50'	50'	50'
		>	160	50'	50'	100'
Quality Restaurant	0	-	15,000 SF	25'	25'	25'
		>	15,000	25'	25'	50'
High Turnover/Sit Down Restaurant	0	-	8,000	25'	25'	25'
Drive-Thru Restaurant	0	-	2,000 SF	25'	25'	25'
	2,001	-	3,000	25'	50'	100'
	3,001	-	5,000	50'	75'	150'
		>	5,000	75'	100'	225'
Motel	0	-	150 rooms	25'	25'	25'
	151	-	400	25'	75'	125'
		>	400	25'	100'	175'
Convention Hotel	0	-	150 rooms	50'	50'	100'
	151	-	400	50'	150'	250'
		>	400	50'	250'	350'
Office Park	0	-	20,000 SF	25'	25'	25'
	20,001	-	50,000	25'	50'	75'
	50,001	-	100,000	25'	75'	175'
	100,001	-	150,000	75'	125'	250'
	150,001	-	300,000	125'	250'	500'
		>	300,000	200'	400'	825'
General Office	0	-	50,000 SF	25'	25'	50'
	50,001	-	100,000	25'	50'	100'
	100,001	-	150,000	50'	75'	175'
	150,001	-	200,000	50'	100'	225'
	200,001	-	300,000	75'	175'	350'
	300,001	-	400,000	125'	225'	450'
		>	400,000	150'	275'	575'

**TABLE 5-1 (cont.)
MINIMUM THROAT DEPTH**

LAND USE	SIZE	STREET RIGHT-OF-WAY		
		<60'	60'	>60'
Light Industrial	0 - 100,000 SF	25'	25'	50'
	100,001 - 200,000	25'	50'	100'
	200,001 - 300,000	50'	75'	150'
	300,001 - 400,000	50'	100'	200'
	> 400,000	75'	125'	250'
Industrial Park	0 - 500,000 SF	25'	25'	50'
Discount Store	0 - 30,000 SF	25'	25'	25'
	30,001 - 50,000	25'	50'	75'
	50,001 - 75,000	125'	50'	125'
	> 75,000	50'	75'	175'
Shopping Center	0 - 10,000 SF	25'	25'	50'
	10,001 - 20,000	25'	50'	125'
	20,001 - 30,000	50'	100'	175'
	30,001 - 40,000	75'	125'	225'
	40,001 - 100,000	75'	150'	250'
	100,001 - 150,000	100'	175'	375'
	150,001 - 200,000	125'	250'	500'
	200,001 - 250,000	150'	300'	625'
	250,001 - 600,000	175'	375'	750'
	600,001 - 700,000	200'	375'	750'
	700,001 - 800,000	225'	425'	875'
	800,001 - 900,000	250'	500'	975'
	900,001 - 1 million	275'	550'	1075'
	> 1 million	425'	825'	1625'
Drive-In Bank	0 - 10,000 SF	25'	25'	50'
	10,001 - 20,000	50'	50'	200'
	20,001 - 30,000	75'	150'	300'
	30,001 - 40,000	100'	200'	400'
	> 40,000	150'	250'	500'
Supermarket	0 - 20,000 SF	25'	25'	50'
	20,001 - 30,000	25'	50'	75'
	30,001 - 40,000	25'	50'	100'
	> 40,000	25'	75'	150'
Medical Clinic	0 - 100 employees	25'	25'	50'

SECTION 6

TRAFFIC SIGNALS, SIGNS, AND STRIPING

6-1 TRAFFIC SIGNAL NEEDS ASSESSMENT – The need for new traffic signals shall be based on warrants contained in the latest edition of the California Manual on Uniform Traffic Control Devices (CMUTCD). For a more detailed description of a traffic signal needs assessment, refer to Section 4-2H of these Design Standards.

6-2 DESIGN STANDARDS - Traffic signals, striping, and signage shall be designed and constructed in accordance with these Design Standards and the latest editions (English units) of the following listed in order of precedence:

- * City of Roseville Standard Notes as published on the City's Web site at: http://www.roseville.ca.us/gov/development_services/engineering_land_development/plan_review/standard_notes.asp.
- * City of Roseville Design & Construction Standards.
- * Caltrans Standard Specifications and Caltrans State Standard Plans, including all standard symbols contained therein.
- * California Manual on Uniform Traffic Control Devices (CMUTCD).
- * Attention is directed to the following from the CMUTCD:
 1. Table 4D-101. Suggested Detector Setbacks from Limitline.
 2. Tables 4D-108 and 4D-109 for conduit sizing. The 26% fill limit shall apply to new installations.
- * A copy of the Traffic Signal Inspection Check list is included on Detail TS-22 as a reference of required inspections during construction.

A. Signal Standard Types – Traffic signal standards, posts, and mast arms shall be of the types listed in Table 6-1:

TABLE 6-1

STANDARD/POST	MAST ARM	LUMINAIRE ARM
Ped. Push Button	None	None
7 to 15 foot 1-B	None	None
Type 15	None	6-15 foot
Type 15 TS (7.2' foundation)	None	6-15 foot
16-2-100	20 foot	None
17-3-100	20 foot	6-15 foot
18-4-100	25-30 foot	None
19-4-100	25-30 foot	6-15 foot
23-4-100	35 foot	None
24-4-100	35 foot	6-15 foot
26-4-100	40-45 foot	6-15 foot
27-4-100	40-45 foot	None
28-5-100	50-55 foot	None
29-5-100	50-55 foot	6-15 foot
60-5-100	60-65 foot	None
61-5-100	60-65 foot	6-15 foot

The typical luminaire arm length used is 15 feet. Signal mast arms and luminaire mast arms shall be within 2 degrees of perpendicular to the centerline of the roadway. Type 15TS pole above shall be used in conjunction with IISNS installations.

1B poles for four section and five section heads shall be 13 feet and 14 feet tall respectively.

Poles (except 1-B's) shall be permanently labeled with the pole size, manufacturer, and serial number below or above the hand hole.

Signal pole and arm welding shall be performed by individuals certified by the pole manufacturer and shall not limit the original manufacturer warranty.

Foundation locations must be verified by Engineering prior to installation.

B. Vehicle and Pedestrian Signal Types – Vehicle signals and pedestrian signals shall be of the following types:

MAT (3 section only)
MAS
MAS-4C (split phase operation)
SV-1-T

SV-2-TB
SV-3-TB
TV-1-T
TV-2-T
TV-3-T
SP-1-CS
SP-2-CS

The MAT mounting shall only be used for 3 section vehicle signals for protected left turn movements. All other mast arm mounted vehicle signals shall be MAS mounted.

All signal faces shall be aluminum. Mountings for MAT and MAS signal sections shall be bronze metal.

Signal faces shall have 12-inch LED displays, unless otherwise specified.

All signal sections shall be 12-inch mold-cast aluminum with aluminum, perforated louver backplates.

Pedestrian heads shall be mounted on the intersection side of the signal pole unless otherwise directed by the Engineer and shall be clam shell type with bronze mounting hardware.

Protected left turn signals shall be all arrow.

Programmed visibility vehicle signals shall not be used without prior approval of City engineering staff and shall not be constructed of plastic.

Any 1B standard having a signal head display, 4 sections or larger, shall be installed under the following criteria:

1. Four (4) section displays will be side (SV-1-T or SV-2-T) mounted. The 1B standard shall be 13 feet in height. A PVC cap shall be provided as a pole cap.
2. Five (5) section display shall be side (SV-1-T or SV-2-T) mounted. The 1B standard shall be 14 feet in height. A PVC cap shall be provided as a pole cap.
3. The extra support method shall consist of a 1" stand off w/ ¼" X 20 threaded hole. The stand-off shall be banded to the signal standard, 3" below the bottom of the top slip fitting of the displays' 1 ½ inch riser. A ¼ inch hole shall be drilled in the center of the 1 ½ inch riser to match the position of the thread hole on the stand-off. The riser shall be attached to the standoff with a ¼" X 20 bolt, which shall include a lock washer and flat washer.

C. Vehicle Signal Alignment – The following vehicle signal alignments are typical. Variations may be required on a case by case basis.

1. For single left turn lanes with protected left turn movement, the left turn signal shall line up with the center of the left turn lane as close as possible.
2. For dual left turn lanes (which shall have a protected movement), the left turn signal shall line up with the line between the two left turn lanes as close as possible.
3. Through movement signal indications shall align as follows:
 - 1 travel lane – the center of the lane.
 - 2 travel lanes, the lane line in-between the two lanes
 - 3 or more travel lanes – one signal indication shall be provided on each lane line between through lanes.
4. For one through lane with permissive left turn, the MAS signal shall line up as close as possible with the center of the through lane. Far left permissive signal indication shall not be used.
5. When a 4 section MAS (MAS-4C) signal is used, it shall line up with:
 - The lane line between the through and the left turn, or
 - The lane line between dual left turn lanes at a “T” intersection, or
 - The center of a single left turn lane at a “T” intersection, or
 - The center of a split phase shared through/left turn lane at a “T” intersection.

D. Number of Vehicle Signal Indications – Typical indications are as follows:

1. For protected left turn movements: one 3-section all arrow MAT and one 3-section all arrow far left side pole-mounted signal.
2. For through movements (with protected left turns): one 3-section MAS, one 3-section far right side pole-mounted signal, and one 3-section near right side or top pole-mounted signal.
3. For through movements (with permissive left turns): one 3-section MAS, one 3-section far right side pole-mounted signal, and one 3-section near right side pole-mounted signal. Far left permissive signal indications shall not be used.

4. For split phased situations: one 4-section MAS (MAS-4C w/GA), one 3-section far left side pole-mounted signal, (all Arrow), one 3-section far right side pole-mounted signal, and one 3-section near right side pole-mounted signal.
 5. For right turn arrow overlap situations: same as above except the far right side and near right side pole-mounted signals shall be 5-section with green and yellow arrows. Right turn arrow overlaps shall not be provided without prior approval of the City Engineer. Where right turn arrow overlaps are provided, the conflicting u-turn shall be prohibited via signage.
- E. Signal Phasing** - Signal phasing shall start with phase 2 northbound and proceed in a clock wise direction unless directed otherwise due to coordinated corridor restrictions.
- F. Permissive Left Turn Phasing** – Permissive left turn phasing shall only be considered under the following conditions:
1. Minor side street approach.
 2. Single approach lane (excluding right turn lane).
 3. Low vehicular (less than 45 cars over the peak hour) and pedestrian volumes.
 4. The approach does not service a park or school.
 5. The approach is not a main school pedestrian route.
- G. Vehicle Detector Layout and Inputs** – Typical vehicle detector layout and inputs shall be as follows (see Details TS-9 and TS-10):
1. For permissive or protected left turn situations, the left turn lane shall have four loops with the first and second loops spaced 8 feet apart, the second and third loops spaced 9 feet apart, and the third and fourth loops spaced 10 feet apart. The fourth loop shall have counting ability. The other three loops can share one input.
 2. Each through lane shall have two call loops spaced 8 feet apart with one count loop spaced 9 feet behind the second call loop and one advanced loop placed per the CMUTCD.
 3. Each right turn only lane shall have one loop placed 30 feet behind the stop bar in line with the through lane count loops. The loop shall be used for counting and may be used for detection following a 10 second minimum delay.

4. For the stem of a “tee” intersection, each left turn lane shall have four loops with the first and second loops spaced 8 feet apart, the second and third loops spaced 9 feet apart, and the third and fourth loops spaced 10 feet apart. The fourth loop shall have counting ability. The other three loops can share one input. No intermediate or advanced loops will be required on “tee” stems.
5. For split phase signals with a shared through/left turn lane, the shared lane shall have four loops with the first and second loops spaced 8 feet apart, the second and third loops spaced 9 feet apart, and the third and fourth loops spaced 10 feet apart. The fourth loop shall have counting ability. There shall also be one advanced loop placed per the CMUTCD.

Front vehicle loops shall be Type D or a “Quadra Circle”. Vehicle count and extension loops shall be Type A. The loops nearest the stop bar shall be placed 1 foot from the stop bar. Where a loop is designated to have counting ability as discussed above, the loop shall not share an input with any other loop. Loop wire shall terminate in the nearest pull box and not the hand hole.

Bicycle detection loops shall be Type D or a “Quadra Circle” except that their size shall be modified as follows:

- The loop size shall be decreased such that it is 1 foot narrower than the bike lane. A 6 foot bike lane shall have a 5 x5 foot loop, a 5 foot bike lane shall have a 4 x 4 foot loop, etc.
- The loop shall be centered in the lane.
- The center of the loop shall be 3 feet back of the crosswalk/stop bar.
- Each bicycle loop shall have its own detector lead-in cable and shall be spliced in the pull box not the handhole.
- Each loop shall consist of five turns of 14 AWG with XLLP insulation.

Detector lead-in cables shall be Type B and shall not be spliced between the termination point (pull box adjacent to detector loop) and the controller cabinet terminals. Tinned copper shall be permitted.

Type GO5 detector hand holes shall be placed so they line up with roadway stripes to minimize the frequency of vehicle tires driving over the handhole covers. A sufficient number of handholes shall be placed so that detector loop saw cuts shall not cross adjacent lanes of travel.

Signal loops installed in new pavement shall be placed in the lift of asphalt concrete (AC) immediately below the final lift. The new bottom lift of AC shall be a minimum of 0.2' thick where the traffic signal loops will be installed. New loops that will be buried under AC shall be installed in a 1 ¾" slot in the bottom lift. Loops installed in existing

pavement shall be surface cut per the State of California Standard Plans unless other wise directed by the Engineer.

Existing buried loops damaged by construction shall be reinstalled as if in new pavement per the above paragraph. The contractor shall grind 1½ inches of pavement from lane line to lane line and at least 1 foot outside the limits of work required to install the entire loop wire. The loops shall then be covered by an asphalt concrete overlay per City Standards. Should the AC thickness be insufficient to install the loops as specified above, the contractor shall complete any additional grinding, excavating, or paving necessary to install the loops.

Loop Home Run slots shall be double cut to accommodate the twisted pair (3-turns/foot), or as directed by the Engineer. Sealant for filling slots shall be Hot Melt Rubberized Asphaltic Sealant or equivalent as approved by the Engineer. All excess sealant shall be squeegeed off after application.

Where the approved plans call for preformed detector loops, the following shall apply:

1. The conduit shall be sealed to prevent the entrance of water and the movement of wires within the conduit.
2. The loop wires from the performed loop to the adjacent pull box or hand hole shall be twisted together into a pair (at least two turns per foot) and encased in Schedule 40 or Schedule 80 PVC or polypropylene conduit ($\frac{3}{8}$ inches minimum diameter). The lead-in conduit shall be sealed to prevent the entrance of water at the pull box or hand hole end.
3. The performed loop and lead-in conduits shall be placed prior to pouring final concrete. The top of the conduit shall be between 2 and 3 inches below top of finished surface. Where the concrete is steel reinforced, the preformed loops may rest on the steel.
4. All detector loop shields shall not be grounded to the ground bus in the controller cabinet. 6" of the shield wire will be wound around the DLC'S then insulated with heat shrink tubing.

Adjacent loops on the same sensor unit channel shall be wound in opposite directions (refer to details TS-9 and TS-10 for further information). All loops shall be wound in a manner such that any adjacent loop will be wound in the opposite direction. The loop at the limit line, closest to the center median (lane 1), shall be wound in a clockwise direction. The next loop back in the same lane shall be wound in a counter-clockwise direction and so on. The loop detector in lane 2 closest to the limit line, shall be wound in a counterclockwise direction.

Loop locations must be verified by Engineering prior to installation. The contractor shall give 48 hours notice prior to loop verification request date.

H. Traffic Signal Conductors – New traffic signal and SIC conductors shall be installed per the following guidelines:

1. New wire may be pulled through existing conduits without removing conductors if based on common conditions:
 - a. There are a maximum number of four, ninety degree by twenty-four inch radius bends in one conduit run between pull boxes or termination points, and
 - b. Conductors, conduit, number of bends and length of the pull are within reasonable limits (under 175 feet for signal wiring and under 400 feet for signal interconnect wiring), and
 - c. Ratio of the conduit (inside diameter) to the combined diameter of both the new and existing conductors or cables (outside diameter), otherwise known as conduit fill, does not exceed 40 percent.
2. All existing conductors shall be removed from conduits, the conduit proven, existing wires inspected, and the new wires added and re-pulled along with the wires previously removed if:
 - a. Items a and b under number 1 above are met but the ratio of the conduit (inside diameter) to the combined diameter of both the new and existing conductors or cables (outside diameter), otherwise known as conduit fill, is greater than 40 percent but less than or equal to 60 percent, or
 - b. Items a through c under number 1 above are met but jamming occurs.
3. New conduit shall be installed per City of Roseville Construction Standards if more than four ninety degree radii exist, the length of the pull exceeds Item #1b above, or the ration of the conduit (inside diameter) to the combined diameter of both the new and existing conductors or cables (outside diameter), other wise known as conduit fill, exceeds 60 percent.
4. The new wire shall be pulled as follows:
 - a. Conductors shall be pulled into conduits by hand

- b.** Only Polymer Based pulling compounds such as Aqua-Gel by Ideal or equivalent shall be used
- c.** Lubricants shall be forcefully injected into the conduit system
- d.** Only fiberglass fish tape or polyester measure tape may be used

It is assumed that all existing conductors and cables are undamaged unless inspected, documented, and reported to the inspector prior to the contractor starting that section of the work. Otherwise, any damage to City facilities shall be repaired by the contractor at the contractor's cost in conformance with City standards.

Conductor installation in new conduits shall be limited to 26 percent fill of the conduit maximum.

Three (3) category 5E cables (Mohawk) Lan-Trak OSP, part number M58790), or City approved equivalent, and one (1) power cable (IMSA 14-3/20-1 STR 600V, Beldem part number 601195) or City approved equivalent to top of designated pole with 10 feet of slack for each cable at the top of the pole.

In order to reduce strain on the CAT5 cabling, all cables shall be adequately supported by feeding them through a Kellems grip which is attached to and suspended from the pole cap.

The hole drilled for the CAT5 cabling shall be drilled on the back side of the pole three feet from the top in order to minimize the camera view obstructed by the cable and shall be threaded for a straight $\frac{3}{4}$ " strain relief cord connector. At least four feet of cable shall be pulled through and secured by the strain relief cord connector. The cables shall be looped together, adequately secured to the pole to prevent movement, and sealed on the ends to prevent moisture exposure.

All new and replacement traffic signal phase wiring shall be multiple circuit conductors. Unique color coding shall be provided for each wire within the cable. The number of wires per cable shall be the next common size up from that required to provide the necessary wires as specified on the plans.

At new and remodeled traffic signals, a three inch, two cell "MAX CELL" or equivalent product shall be provided in all street crossing traffic signal conduits.

Equipment grounding conductors shall be # 6 stranded copper with THW green insulation, see Details TS-25.

The grounding electrode rod in the Service shall be paralleled with the grounding electrode rod in an adjacent pull box that is no less than 20

feet from service electrode. This connection shall consist of a continuous stranded #6 insulated conductor. The ground connection shall be on the line side of the electrical entrance terminal block. The continuous #6 stranded and insulated green copper conductor shall connect the ground bus in the electrical service, grounding electrode in the service.

- I. Traffic Signal Interconnect (SIC)** – Traffic signal interconnect shall be provided for new signal installations, and for modifications of existing signals which currently do not have interconnect. The interconnect cable shall have its own conduit and shall not share conduit with service conductors, signal conductors, or lead-in cables.

The interconnect shall connect the subject signal with at least one existing traffic signal. If the subject signal is between two existing signals, the interconnect shall connect all three signals.

If a City Parcel is adjacent to a new fiber run, a fiber stub shall be provided.

Unless specified otherwise on the plans, six (6) feet of copper and/or fifteen (15) feet of fiber optic cable slack shall be provided in each pull box. Fifty (50) feet of copper and/or one hundred (100) feet of fiber optic cable slack for each signal interconnect cable run shall be provided in the dedicated communications Home Run pull box in front of each signal controller or the last pull box before the controller if a dedicated communications Home Run pull box is not available.

Signal interconnect cable (SIC) shall be 9/125 μm wavelength, 72 to 216 strand, single mode, indoor/outdoor, loose tube, all-dielectric fiber optic cable as specified on the plans. SIC shall have a footage marking every 4 feet. This marking may be on the outside of the cover or on the inside insulation jacket.

At the discretion of the City, existing SIC may be disconnected by the City and moved out of the work area by the contractor during construction. However, the SIC must be reinstalled by the contractor within seven days of its disconnection. Otherwise, all SIC must remain operational.

Existing copper SIC damaged during construction shall be replaced at the contractor's cost from controller cabinet to controller cabinet on either end of the damage. Splicing of copper SIC is not allowed. Damaged copper SIC shall be replaced with **fiber optic** SIC, including cable, conduit, splices, terminations, patch panels, and pull boxes conforming to current City standards. The contractor shall also be responsible, at the contractor's cost, to make any additional repairs needed to install the new cable from controller to controller.

Existing fiber optic SIC damaged during construction shall be repaired.

Damage

1. Fiber Optic Cable and related facilities damaged during construction shall be replaced/repaired to current City standards and as specified below at the contractor's cost. This work shall include fiber optic cable, conduit, pull boxes/vaults, trenches, concrete, asphalt, traffic control, pull tape, splices, splice enclosures, terminations, labor, etc, as required.
2. Damage is described as a breach in the fiber optic cable jacket, a kink, a break of the cable, or any other condition that causes a reduction in the capacity of the cable.
3. Should fiber optic cable facilities be damaged during construction without visible damage to the cable, the cable shall be tested by a certified fiber optic technician provided by the contractor at the contractor's cost to ensure that there is no internal damage. Should the test show internal damage, the cable shall be replaced as specified below. Otherwise, the cable shall be protected and the facilities repaired to current City standards.

Repair

1. Fiber optic cable running between and terminating at adjacent traffic signals or devices shall be replaced from termination to termination:
 - i. All new cable and terminations shall be acceptance tested as required elsewhere in the City standards.
 - ii. If the new cable must be pulled through conduits that contain traffic signal phase wiring, then a "MAX CELL" or equivalent sleeve, per City standards, shall be installed in the conduit prior to the installation of the new fiber optic cable.
- a. Pull box adjacent to the damage to controller cabinet.
 - iii. No more than 5 feet of slack may be used out of any one pull box.
 - iv. Pull boxes where new splices shall occur will be replaced with C48 or PL48 vaults as specified in the City standards
 - v. At least 50 feet of slack must be provided in the new splice vault.
 - vi. The slack shall be provided in even amounts on either side of the splice enclosure.
 - vii. Only fusion splicing meeting City standards by a certified fiber optic technician will be allowed.
 - viii. All new cable, splices, and terminations shall be acceptance tested as required elsewhere in the City standards.
 - ix. The average optical loss of each splice shall not exceed 0.10 dB. The average is determined by measuring the splice loss in both directions with an OTDR, adding the

two readings, and dividing by two. Testing should be performed for both the 1310 and 1550 nm wavelengths.

- x. Splicing will not be allowed in pull boxes or vaults shared with non signal interconnect cables.
 - xi. If the new cable must be pulled through conduits that contain traffic signal phase wiring, then a “MAX CELL” or equivalent sleeve, per City standards, shall be installed in the conduit prior to the installation of the new fiber optic cable.
- 2.** Fiber optic cable running continuously past multiple traffic signals or devices may be repaired by splicing at adjacent pull box locations.
- a.** A single splice location may be appropriate if the damage is close enough to the adjacent pull box that the repair may be accomplished by using some of the slack in the existing cable.
 - i. No more than 5 feet of slack may be used out of any one pull box.
 - ii. Pull boxes where new splices shall occur will be replaced with C48 or PL48 vaults as specified in the City standards
 - iii. At least 50 feet of slack must be provided in the new splice vault.
 - iv. The slack shall be provided in even amounts on either side of the splice enclosure.
 - v. Only fusion splicing meeting City standards by a certified fiber optic technician will be allowed.
 - vi. All new cable, splices, and terminations shall be acceptance tested as required elsewhere in the City standards.
 - vii. The average optical loss of each splice shall not exceed 0.10 dB. The average is determined by measuring the splice loss in both directions with an OTDR, adding the two readings, and dividing by two. Testing should be performed for both the 1310 and 1550 nm wavelengths.
 - viii. Splicing will not be allowed in pull boxes or vaults shared with non signal interconnect cables.
 - b.** Two splices may be necessary if the damage is not near an existing pull box. In this case, a splice shall be provided on either side of the damage and a new length of cable meeting City standards shall be installed between the splices.
 - i. Pull boxes where new splices shall occur will be replaced with C48 or PL48 vaults as specified in the City standards.
 - ii. At least 100 feet of slack must be provided in each vault.
 - iii. The slack shall be provided in even amounts on either side of the splice enclosure.
 - iv. Only fusion splicing meeting City standards by a certified fiber optic technician will be allowed.

- v. All new cable, splices, and terminations shall be acceptance tested as required elsewhere in the City standards.
 - vi. The average optical loss of each splice shall not exceed 0.10 dB. The average is determined by measuring the splice loss in both directions with an OTDR, adding the two readings, and dividing by two. Testing should be performed for both the 1310 and 1550 nm wavelengths.
 - vii. Splicing will not be allowed in pull boxes or vaults shared with non signal interconnect cables.
 - viii. If the new cable must be pulled through conduits that contain traffic signal phase wiring, then a "MAX CELL" or equivalent sleeve, per City standards, shall be installed in the conduit prior to the installation of the new fiber optic cable.
3. Repair work must **begin within 24 hours** and be **completed within 48 hours** of the damage occurring irrespective of weekends and holidays.
4. Should the contractor be unable to make the repairs within this time frame, the City will complete temporary repairs and bill the contractor for their time and materials at the City's billable rate. The temporary repair shall be treated with the same restrictions, requirements, and care as the original cable. The contractor will still be required to make the permanent repairs prior to completion of the project.

Temporary copper SIC repairs must be made within 48 hours of the damage and provide sufficient bandwidth and reliability for the intended purpose of the copper SIC. Permanent Repairs shall be completed within 30 days of the damage. The City may make the repairs and bill the contractor for the work should the contractor be unwilling or unable to meet these requirements.

Should copper SIC installation be required by the city, the contractor shall test all copper SIC prior to installation:

- 1. For continuity of each wire pair. Resistance shall be consistent.
- 2. For high resistance (meggar) testing (250v setting):
 - a. Each wire pair to ground
 - b. Each wire pair to the cable shielding
 - c. Each wire pair to wire pair
- 3. The test may be in the field or shop
- 4. A city technician does not need to be present

5. The contractor shall be liable for all inspection costs related to the removal and re-installation of new cable if the untested cable is found to be faulty after installation.

Fiber optic cable shall be acceptance tested, every strand, both before and after installation at both 1310 and 1550 nm wavelengths. All testing shall be documented on OTDR Acceptance Test and Splice Loss Record forms. Losses shall not exceed 1.85 dB per mile of cable including patch panels and splices.

- J. Traffic Signal Conduit** – All new conduit placed in existing roadways shall be buried at a minimum depth of 15" for double conduits and 18" for single conduits below finished grade. All new conduit placed in new roadways shall be installed prior to any paving operations and be buried at a minimum of 18" below finished subgrade with the exception of conduit between detector handholds and the first pull box which shall be buried a minimum of 18" below finished grade. New conduit installed outside of the roadway and sidewalk shall be installed at a minimum depth of 36" below finished grade.

Unless otherwise specified, all signal interconnect (SIC) conduit shall be 2-3" schedule 40 gray PVC conduit with 3 foot radius 90 degree sweeps into each number 6 pull box.

All traffic signal and SIC conduit shall have a Fiber-Tek part number WPTT1250 or approved equivalent pull tape installed along with the conductors/fibers. Approved pull tapes shall consist of a 22-AWG solid copper wire with HDPE Jacket.

Signal conduit diameter sizes shall be 2 inches minimum and 3 inches maximum except conduit runs to pedestrian push button posts shall be one (1) inch.

Existing conduits not to be reused shall be removed from existing pull boxes and the ends shall be plugged solid with grout. Existing conductors shall be removed from said conduits prior to plugging.

Abandoned conduits deemed reusable shall have the line blown out, existing conductors removed, No. 10 green pull wire installed, and the ends of the conduits sealed.

All pull tape shall be a minimum of 250 feet in length without splicing where possible. All pull tape splices shall have the ends knotted together in the pull box and all splices shall be made using 3M scotchlok connectors (models UR or UY) or approved equal to insure a continuous connection from signal controller to signal controller. Once pull tape is installed and all splices are completed, the City signal technician shall ground the tracer wires in the signal cabinet and test the wires for continuity before accepting the work. Should the pull tape

tracer wire fail the continuity test, the Contractor shall repair or replace as necessary to achieve continuity.

K. Traffic Signal Pull Boxes – All pull boxes shall be No. 6 per the City's Construction Standards except as modified by the plans or the provisions below:

1. Advance loop pull boxes shall be No. 6 and shall have a minimum of 20 feet of detector lead-in cable (DLC) and 20 feet of extra loop cable spooled in the pull box.
2. The "Home Run" and "Communication Home Run" pull boxes (typically adjacent to the controller) shall be C48E boxes with 12 inch extensions (double stack). Detector loop splicing is not allowed in the "Home Run" pull boxes. The "Home Run" pull box shall be located a minimum of eight (8') from the service and controller pad ground rods (See Detail TS-25).
3. Fiberlyte (FL36) + 24 in extension vaults shall be installed at all new locations and at every fiber optic cable splice point. Vaults shall be installed within the controller pad whenever possible. Where a traffic rated box is required, the C48 (concrete) vault shall be used with a steel checker plate bolt down lid. See Detail TS-14 for additional installation details.
4. Pull boxes shall not be placed within the area of an access ramp unless directed by the Engineer. Pull boxes should be installed a minimum offset of 1' from, back of walk when within the sidewalk, and from any score or expansion joint. The bottoms of pull boxes shall be bedded in 6 inches of clean crushed rock. Grout in the bottom of pull boxes is not required. The pull box rim and lid shall be flush with surrounding surface. In unpaved areas, the pull box rim and lid shall be 1 inch above the finish grade. Pull boxes located outside of the sidewalk or planter area behind a sidewalk shall be of the Caltrans traffic rated pull box design.
5. An N48 Vault shall be installed near (as directed by the City) the controller cabinet for fiber.

All pull boxes and lids shall be #6 Fiberlyte (FL36) box unless otherwise directed by the Engineer. If an "in planter" type box is used, it must have a concrete collar.

All pull boxes to be abandoned shall have conductors removed from the pull boxes and conduits and the pull box shall be removed. The remaining hole shall be backfilled and compacted with similar material as the surrounding material. If within a sidewalk, the entire square of sidewalk shall be removed and replace.

Pull box covers shall read “TRAFFIC SIGNAL”, except for pull boxes and vaults used solely for traffic signal interconnect. Pull boxes and vaults used solely for copper traffic signal interconnect shall read “SIGNAL INTERCONNECT”. Should the signal interconnect pull box or vault contain any fiber optic cable, the cover shall read “TRAFFIC SIGNAL FIBER OPTICS” instead.

L. Pedestrian Push Button (PPB) - Pedestrian push buttons shall be aluminum Type “B” with metal international symbol signs. Push buttons shall meet all Americans with Disabilities Act guidelines and be placed 36 inches above the grade of the closest edge of sidewalk and shall require a reach of no more than 18 inches outside the closest edge of sidewalk. Pedestrian push buttons shall be within five (5) feet of the edge of the crosswalk line (extended) farthest from the center of the intersection (CMUTCD Figure 4E-3). Audible pedestrian signals shall be installed at all new and modified traffic signals in commercial and high pedestrian areas or as directed by the City. The contractor shall provide a city approved wave file. All other buttons shall be solid state, two tone audible, momentary LED type. Audible Ped APS shall be on separate posts at least 10 feet apart as directed by the City. See the City’s website for a list of approved models.

M. Intersection Safety Lighting – Illumination provided by intersection safety lighting at signalized intersections shall meet the following criteria:

1. A minimum of .15 footcandles throughout the crosswalks.
2. A minimum of .6 footcandles at the center of intersection.

Luminaries shall be 400 watt equivalent LED. See the City’s website for a current list of approved materials.

Luminaries shall be medium cutoff, Type II or III lighting distribution (MSII or MSIII)

For 400 watt luminaries, two separate 120 volt circuits shall be provided to equally split the power load.

Photoelectric controls shall be Type II and pole top mounted. Wiring from the photoelectric cell assembly to the electrical service shall be #14.

N. Controller/Service Pad – There shall be a minimum 6-inch high curb around the signal controller/service pad, excluding the sidewalk/roadway side of the pad. The minimum curb height shall

increase as necessary to ensure no steeper than a 2:1 slope of the native material around the pad. Masonry blocks (not gravity type blocks) may be utilized to achieve the required 2:1 slope. The Contractor shall be responsible for acquiring engineering for retaining walls if the wall is greater than four feet from base of footing to top of wall. Refer to Detail TS-4 through TS-8 for further details.

The service pedestal shall be installed a minimum of six (6) feet from the controller cabinet.

A City of Roseville Encroachment Permit is required for every traffic signal installation and/or modification. The project address for the permit shall be the service pedestal address. This address should be noted on the plans but is obtainable from the City in its absence. Minor modifications by City forces not involving the service pedestal are exempt from the encroachment permit requirement. Should a traffic signal be a part of a larger project, there may be an encroachment permit for the entire larger project and one or more permits for each and every signal installation/modification.

On 332 cabinets, the field wire entrance section of the controller shall face the intersection or as directed by the Engineer.

O. Traffic Signs – Sign codes shall be per the CMUTCD unless denoted otherwise. Typical signs include the R-73 (CA) series mast arm mounted signs, R3-18 mast arm mounted signs, R9-3a and R9-3b signs (where crossing the street is restricted), W3-3 Signal Ahead roadside signs (pavement markings are only necessary where visibility of the signal is limited or where the signal may be unexpected by motorists), and R3 series roadside signs on the stem of a “tee” intersection.

As a minimum, all signs shall be the common size as shown in the Standard Highway Signs manual. On collector and arterial streets, the minimum size of type R1 stop signs shall be 36 inches. Type R1 stop signs on other streets shall be 30 inches. Type R1 stop signs installed on bike trails may be either 24 inches or 18 inches as approved by the Engineer.

Fluorescent Yellow Green (FYG) background colored signs shall be installed for the following sign types: S1-1, S3-1, S4-3, W11-1, W11-2, and W16-7p and W16-9p when used with one of the previously listed signs.

Where crossing the street is restricted at signalized intersections, R9-3a and R9-3b signs shall be installed on the signal pole in the place of the pedestrian signal indication.

In the case of R73 (CA) series of mast arm mounted signs, a common question is whether or not to allow u-turns. This determination is a

function of whether or not there is sufficient room for turning radius. The guideline used by the City is that U-turns shall be restricted where less than 44 feet exists between the right lane line of the left turn lane and the face of curb for the opposing direction of travel for single left turn lanes, where less than 36 feet exists between the left edge of the inside left turn lane to the face of curb for the opposing direction of travel for dual left turn lanes, or as required by the Engineer (Detail TS-15). If u-turns are to be restricted at permissive or no left turn intersections, R3-4 or R3-18 signs shall be installed on the mast arm.

A bicycle signal actuation sign, R10-22, shall be installed in conjunction with bicycle detection. The sign shall be placed adjacent to the bicycle loop on the nearest signal pole or on a sign post per City standards as directed by the Engineer.

W3-3 Signal Ahead signs shall be installed on all approaches to a signalized intersection on the day of signal activation. The signs shall be installed prior to the left or right turn pocket bay tapers at a minimum and shall be mounted on street light poles when possible. Please see Detail TS-16 for additional placement information. Immediately prior to the activation of a new traffic signal. The contractor shall install two (2) orange flags on the "Signal Ahead" signs. The flags shall remain in place for two weeks prior to removal by the contractor.

All existing traffic signs, which are in conflict with the proposed work as shown on the plans, shall be removed by the Contractor and returned to the City. The Engineer shall make the final decision if a question arises as to what represents said conflict.

Efforts shall be made to ensure that all signs in the center median or shoulder areas are not installed next to landscaping or other objects which may impair visibility of the sign nor shall they impair the visibility of the traffic signal.

Internally Illuminated Street Name Signs (IISNS) shall require a City Traffic Engineering accepted stamp for all approved proofs matching existing City LED IISNS's prior to ordering. Only products with prior approval from the City shall be allowed.

1. Refer to City of Roseville Construction Standards Section 56 "Signs".
2. Internally Illuminated Street Name Signs (IISNS)
 - a. All proofs require a City approved layout matching existing City LED IISNS's prior to ordering.
 - b. IISNS name panels shall be manufactured as follows:

- i. Sign panel material shall be clear (not opaque) poly. Thickness of the panel shall be 3.5 mm /6.0 mm maximum.
- ii. Sign panels background sheeting shall be: 3M DG₃ (Diamond Grade) series 4090. Color (White).
- iii. Etched sheeting (Street name and City of Roseville logo) shall be 3M EC 1177_c material. Color (Green).
- iv. Manufacturer shall warranty, no chemical reaction, shall be exhibited between the background sheeting and etched sheeting components.
- v. The IISNS shall be double sided with street names on both sides.

3. Courts

- Install a type W53 “Not a Through Street” sign at the entrance to all Courts or Cul-de-Sac’s when you cannot see the end of the roadway from the last intersection. Place the sign on the nearest street light pole when possible.

4. Intersections Within Subdivisions

- All four-way intersections shall have right-of-way controls established on the minor street. On roadways with minor traffic volumes expected, install type R1-2 “Yield” signs and bars. At intersections with heavier expected traffic volumes and/or pass through traffic, install type R1-1 “Stop” signs, bars and legends.
- Install R26 (CA) “No Parking Anytime” signs at the entrance to subdivisions that have a median island just off an arterial or collector.

P. Striping – All painted traffic stripes, arrows, and pavement markings shall be constructed with thermoplastic material to the specifications set forth in Section 84 of the Caltrans Standard Specifications (latest edition). Non reflective pavement markers shall consist of ceramic markers only conforming to Section 85-1.04A of the same standards.

The following permanent traffic lane striping shall be raised pavement markings, and placed as one of the following types: Detail 4, 7, 10, 13, 17, 20, 23, 25, 26, 30, 33, 37C, or Detail 38. Thermoplastic striping is also required for placement of Detail 25 and 38.

The following permanent traffic lane striping shall be thermoplastic, and placed as one of the following types: Detail 25, 27B, 38, 39, 39A and Detail 40. Pavement Markers are also required for placement of Detail 25 and 38.

Detail 26 markers shall be placed 2 inches from the face of the median curb.

At all fire hydrant locations, a blue reflective pavement marker shall be installed one foot off paved centerline or median on the hydrant side of the roadway.

Sandblasting of traffic stripes shall not be permitted. Removal of traffic stripes shall be by grinding, or by other methods approved in writing by the Engineer. For removal of pavement markings, a rectangular area shall be ground to prevent ghosting of the original marking and be covered with rectangular area of Type II slurry. Conflicting striping shall be removed completely. Type II slurry of conflicting striping is required when it crosses the new traveled lane. When this occurs, the entire lane shall be slurried from lane line to lane line over the entire length of the conflicting striping. This requirement will not apply to ceramic markers unless specified on the plans.

All striping or pavement markings damaged during construction shall be repaired at the contractor's expense. Repairs shall consist of complete replacement of marking or legends, replacement of sections of thermoplastic striping, and replacement of damaged or missing markers as directed by the Engineer.

The following shall apply when installing traffic stripes and pavement markings:

1. In addition to locations as shown on the plans, bike lane signs and pavement markings shall be installed at no more than one half-mile intervals and following every break in the bike lane striping. The BIKE LANE legend shall be centered in the lane to ensure the legend does not run into the lane striping.
2. A bicycle detector pavement marking shall be installed in conjunction with each bicycle detector per CMUTCD Figure 9C-7 and shall be placed starting 6 inches back of the crosswalk/stop bar.
3. Unless otherwise specified on the plans, crosswalks shall be eleven (11) feet wide, measured from the centerline of the stripe.
4. Traffic stripes and pavement marking shall not be placed over utility covers including, but not limited to, manhole covers, utility boxes, hand holes, or water valve covers.
5. STOP legend pavement marking and limit lines are required with stop signs. YIELD legend pavement marking are required with yield signs. The yield limit line shall be per the CMUTCD (24" by 26" triangles).

6. Pavement arrows shall be one of the following types unless otherwise directed by the Engineer: Type II (L, R or B), Type III (L, R, or B), Type VI, or Bike Lane Arrow.
7. At signalized intersections with left turn lanes longer than 150 feet the Type II, or Type III arrows shall be placed 20 feet behind the limit line. Where there are dual left turn lanes with staggered limit lines, the arrows in the number 1 left turn lane (closest to the median) shall be placed 15 feet behind the limit line, and the arrow in the number 2 left turn lane shall be placed 20 feet behind the limit line. The intent is to have the two arrows line up side by side, even though the limit lines are staggered.
8. All turn lanes shall have a Type II or Type III arrow at the beginning of the turn lane such that the tail of the arrow lines up with the beginning of the Detail 38 striping. All turn lanes 150 feet or longer shall have a minimum of two Type II or Type III arrows (one arrow for every 150 feet of turn lane).
9. All traffic lane striping shall be discontinued through any four way public intersection from crosswalk, marked or unmarked. Striping shall be continuous through private intersections unless there is a striped left turn lane and/or traffic signal. For public "T" intersections, the through and bike lane striping shall be continuous for the non-intersection direction, i.e. "across the top of the T". However, there shall be no striping within the limits of the crosswalks.
10. At locations where bike lane striping is parallel striping used to channelize traffic, right turn acceleration/deceleration lanes and bus turnouts, both stripes shall be detail 38. Reflective pavement markers shall be placed to the outside of the bike lane.
11. Bike lane striping shall be continuous except at right turn bay tapers, intersections with City streets, and driveways where the centerline/median is broken. See Detail TS-18 for examples.
12. Lanes designated by the Engineer as auxiliary shall be striped as directed by the Engineer. Examples of typical auxiliary lane striping can be seen on Detail TS-19. Bike lane striping along auxiliary lanes shall be modified Detail 38 with 4 foot stripes at 10 feet on center.
13. Left turn arrows shall not be placed in Two Way Left Turn Lanes unless other wise directed by the Engineer.
14. Stop and yield bars shall be 7 feet back from the center of the pedestrian access ramp unless directed otherwise by the Engineer. Where a stop sign is installed with a yellow school crosswalk, a

supplemental white stop bar shall be installed 4 feet back from the crosswalk line.

15. Lane line extensions for dual turning lanes shall be placed on a continuous arc as appropriate for a turning 40 foot bus. Triple turning lanes shall be placed to accommodate the turning of a 65 foot total length (California legal) tractor truck-semitrailer (Detail TS-20).

Type K-4 (Type Q in the CalTrans Traffic Manual) markers (aka: Superducks) shall be 36 inches tall and have 3 bands of reflective sheeting per Section A73C of the CalTrans Standard Plans.

Type K-4 markers mounted between two lanes of opposing traffic shall be yellow with yellow reflectorized sheeting. Type K-4 markers mounted between two lanes of traffic traveling in the same direction shall be white with white reflectorized sheeting.

At median curb noses, a yellow Type K-4 marker shall be mounted on top of the curb. A white Type K-4 marker shall be mounted at the nose for a Right turn 'pork chop' island.

Additional City striping guidelines can be found in Section 7, Streets, of these standards and Sections 82, 84, and 85 of the City's Construction Standards.

Q. Right Turn Lanes – Right turn lanes shall be provided at signalized intersections:

1. On all main street approaches.
2. On all minor street or driveway approaches with peak hour approach volumes of 60 vehicles or more.

R. City Supplied Equipment – City supplied equipment shall be picked up by the contractor at the City's corporation yard (2005 Hilltop Circle, Roseville) upon 10 calendar days notice to the City's inspector. The contractor is responsible to provide all labor and equipment necessary to load, transport, and install the equipment. Equipment provided by the City typically includes:

1. NEMA Type P or Caltrans 332 cabinet (fully equipped)
2. Type 27-22 electrical service with battery backup system
3. 2070L controller
4. Communications equipment

5. EVP equipment with the exception of the cable from the detector to the discriminator
6. CCTV camera
7. WiFi communications equipment

S. Contractor Supplied Equipment – Attention is drawn to the following contractor supplied and installed materials:

1. Equipment grounding conductors shall be AWG #8 bare solid copper wire minimum.
2. Three (3) category 5E cables (Mohawk Lan-Trak OSP, part number M58790), or City approved equivalent, and one (1) power cable (IMSA 14-3/20-1-STR 600V, Belden part number 601195) or City approved equivalent to top of designated pole with ten (10) feet of slack for each cable at the top of the pole.
3. 16" countdown pedestrian heads. Contact the City for approved vendors and models.
4. Audible pedestrian or solid state, two tone audible, momentary LED pedestrian push buttons. See the City's website for a list of approved models.
5. Internally Illuminated Street Name Sign (IISNS) Mast Arms shall be per TS-11 and TS-12. The loading of the mast arms and the signal pole to which the sign mast arm is attached shall be approved in writing by the manufacturer or a licensed Structural Engineer.
6. Slim profile, LED IISNS's with City Logo. Contact the City for approved vendors and models. Sign proofs must be approved by the City prior to ordering equipment.

T. Salvaged Equipment – Salvaged equipment shall become property of the City and shall be delivered by the Contractor upon 24 hours notice. The Contractor shall deliver salvaged equipment to the City's Corporation Yard located at 2005 Hilltop Circle, Roseville, following at least 48 hours advance notice of delivery.

Where signals are being modified or relocated, existing emergency preemption equipment shall be relocated to the new signal poles.

Damaged conduits deemed to not be reusable shall be removed from existing pull boxes and ends plugged solid with grout. Existing conductors shall be removed from said conduits prior to plugging. Contractor shall dispose of said conductors.

Abandoned conduits deemed reusable shall have the line blown out, existing conductors shall be removed, a number 10 green locate wire shall be installed, and the ends of the conduits shall be sealed.

U. Traffic Control – Construction area traffic control shall be installed in accordance with the City accepted projects specific traffic control plan, the approved improvement plans and specifications, the Construction Standards, the City Design Standards, The California Manual on Uniform Traffic Control Devices (CMUTCD), The State of California Standard Plans, and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the Cal Trans Standard Specs and as follows:

1. Construction that inhibits free flow traffic shall not occur between the hours of 4 p.m. to 6 p.m. on Monday through Friday without prior written approval of the Engineer. Traffic control lasting more than one hour will be subject to additional time restrictions set by the City's Traffic Section in order to minimize the impact to the public.
2. At least one lane in each direction shall remain open to traffic unless otherwise approved by the Engineer.
3. Turning movement restrictions require prior approval of the City. A changeable message sign (CMS) shall be posted in the direction of travel affected by the restriction a minimum of three days prior to the implementation of the traffic control at the contractor's expense. Wording and placement of the CMS shall be "ACCEPTED" by the City's Traffic Section prior to installation.
4. Traffic control hours are subject to limitation by the City.
5. Lane closures that affect traffic flow may require night work, changeable message signs, and/or certified flaggers at the contractor's expense. The contractor should consider traffic control included in their cost of work and may contact the City's Traffic Section for requirements prior to bidding a job.
6. Approved road closures require 72 hour advance notification to the City, the public and emergency services. Changeable message signs (CMS's) shall be posted in the directions of travel affected by the closure a minimum of 1 week prior to the implementation of the traffic control at the contractor's expense. Wording and placement of the CMS's shall be "ACCEPTED" by the City's Traffic Section prior to installation.
7. A Red Flash Request form must be submitted 48 hours prior to the time the red flash is needed. Allowable hours of flashing operation will be set by the City's Traffic Section and will require early

morning, evening, or night work unless otherwise approved in writing by the City's Traffic Section. The Red Flash Request form is on Detail TS-21.

8. Special events shall go through the City's special event process (Contact the City of Roseville's Parks & Recreation Dept. for a Special Events packet). Changeable message signs placed in advance of the event may be required depending upon the size of the event and its impact on traffic movement. Contact the City's Traffic Section for requirements.
9. Special holiday traffic control restrictions are in place from one week prior to the Thanksgiving holiday through January 3rd each year for various roads throughout the City (Detail TS-23).

TRAFFIC CONTROL PLANS:

All traffic control plans (including signage) shall be per CMUTCD (California Manual on Uniform Traffic Control Devices).

The City's Construction Inspector or Engineer shall determine the necessity of a formal traffic control plan (TCP) submittal based upon the following guidelines:

A TCP submittal will be required if the TCP is anyone of the following:

1. Complicated (to be determined by the City's Construction Inspector)
2. Involves a signalized intersection
3. Longer than 12 hours
4. Not detailed in the CMUTCD
5. Involves road closure or detours

Traffic Control Plans require responsible party contact information, hours of operation (which may be restricted by the City), and duration of work.

TCP submittals require the following minimum review times **per** submittal:

Type of TCP	Min. Review Time
Lane Closure	2 days
Intersection Signal Flash	2 days
One-way traffic control	2-4 days
Detour/Road Closure	3-4 weeks

Note that complicated TCP's may require more review time. Traffic control review time should be included in the contractor's work schedule.

The traffic control plan submittal process is as follows:

1. Three copies of the TCP must be submitted to the inspector.
2. The TCP is reviewed by the City Traffic Section and corrections/modifications are made by the contractor as necessary.
3. The City Traffic Section will stamp the TCP as “ACCEPTED” once the plans are to the City’s satisfaction.
4. Two copies of the “ACCEPTED” TCP are returned to the inspector – one copy each for the inspector and contractor.
5. The contractor must have a copy of the “ACCEPTED” TCP on site during the entire time the TCP is in place.

Any deviation from the “ACCEPTED” TCP shall be approved by the inspector and may require re-submittal of the TCP for City review. Failure to maintain the TCP may result in shutdown of the project, suspension of inspection services, correction by the City at the contractors expense, or any combination of the before mentioned.

V. Signal Activation – Functional testing per Caltrans Standard Specification 86-2.14C shall be performed for 5 working days prior to signal activation. All systems shall be in place before functional testing can begin.

On the day of signal activation, the contractor shall be required to have in his possession at the job site all tools, equipment and parts necessary to repair a signal malfunction. These items shall include, but not be limited to, a bucket truck, replacement LED’s, wire, etc.

Immediately prior to the activation of a **NEW** traffic signal, the contractor shall install two (2) orange flags on the “Signal Ahead” signs. Flags shall remain in place for two (2) weeks.

Prior to activation of a **NEW** traffic signal, the contractor shall provide a minimum of two flaggers per intersection to control traffic. The number of flaggers may be increased at the request of the City’s inspector for large intersections. Each flagger shall wear appropriate safety gear and carry a stop paddle for controlling traffic. The flaggers shall completely stop traffic prior to the signal changing from red flash to full operation. Signal Activation will not be permitted on Friday’s or before a designated City Holiday.

W. Roadway Improvements – The designer should be aware of the following requirements regarding civil improvements when working in the roadway:

1. If delay to motorists will not exceed 10 minutes, conduit may be installed as allowed by "Trenching in Pavement Method" as provided in Section 86-2.05C of the Caltrans Standard Specifications and these requirements
2. The conduit trenches shall be a maximum of six inches wide and two inches wider than the outside diameter of the conduit to be installed. There shall be one inch minimum clearance between the conduit and the trench wall. The trench shall be crumbed clean prior to placement of conduit.
3. Aggregate material in concrete shall be pea gravel. Concrete shall be thoroughly consolidated around the conduit filling all voids.
4. Rock wheel trenching per detail TS-13 and conduit installation in new or existing roadways shall be located along the centerline of the bike lane stripe or stop bar/crosswalk striping. All trench cut shall be hidden by the stripe where applicable. Pre-existing improvements requiring deviation from the centerline of the stripe shall be accomplished within 20 feet from the beginning to the end of deviation. Deviations along bike lane lines shall be to the curb side of the stripe unless directed otherwise by the City. Deviations greater than 20 feet shall require asphalt concrete repair per Item #6 below.
5. Rock wheel trenching parallel to the roadway centerline across acceleration, deceleration, or bus turn out openings that can not be completed per TS-13 upon the same day shall be filled with concrete to the top of the trench and the contractor shall return to complete an 18 inch "T" grind and overlay per CST-TB-1
6. Saw cutting in the street other than rock wheel trenching will require pavement repair per CST-TB-1 or TB-3 and/or grinding between lane lines per City Standards found elsewhere in this document and the Construction Standards.
7. Should the contractor fail to install the conduits in **NEW** roadways prior to the bottom lift of asphalt concrete, the City will require the installation of a Glass Grid matt prior to the final lift of pavement.
8. The contractor is solely responsible to provide all labor and equipment necessary to locate existing underground facilities beyond the information provided by the U.S.A. markings including, but not limited to, metal detectors, wire locating equipment, and potholing.
9. Where combinations of sidewalk or curb and gutter are poured contiguous to existing, all adjoining existing concrete vertical faces

shall be doweled per City Standards found elsewhere in this document and the Construction Standards.

10. Curb ramps conforming to the latest ADA, Title 24 requirements, and the City Construction Standards shall be installed at all pedestrian crossing locations within the project area. Existing ramps that do not meet these requirements shall be removed and replaced.

6-3 PREPARATION OF PLANS – Traffic signal plan sheets shall conform to the provisions of Sections 2 and 3 of these improvements standards, including submittal requirements, AutoCAD files, etc. Traffic signal plans shall have one title sheet followed by separate signal and lighting, interconnect, and signing and striping sheets for each intersection. Signing and striping sheets shall be submitted concurrent with signal and lighting sheets for review. Signal and striping plan sheets must be stamped and signed by a licensed Civil Engineer.

A. Title Sheet – The title sheet shall include the following:

1. Title of project, which shall include the location.
2. A vicinity map with north arrow showing the limits of work. The location map is not required to be to scale.
3. Pertinent signature blocks, and revision block.
4. A legend for symbols not found in the Standard Plans (e.g., utility lines, etc.). Below the legend, place the following note: NOTE: SEE STATE STANDARD PLANS ES-1A, ES-1B and ES-1B FOR EXPLANATION OF OTHER SYMBOLS.
5. Controller/Service foundation detail (TS-4 through TS-8), loop layout detail (TS9 and TS-10), and other special details. The service pedestal address shall be placed adjacent to these details in large, bold letters.
6. Applicable City of Roseville Standard Notes as published on the City's Web site at www.roseville.ca.us/engineering.

B. Signal and Lighting Sheet – The signal and lighting sheet shall be drawn at a scale of 1 inch equals 20 feet, and shall include the following:

1. A north arrow.
2. Existing and proposed field conditions which include, but are not limited to, the following: underground and overhead utilities (including height of lines near signal poles), driveways, fire

hydrants, poles, signs, fences, street lights, edge of pavement, curb and gutter, sidewalk, right-of-way line, P.U.E.'s, roadway striping, medians, centerline, pull boxes, curb ramps, trees (particularly those needing trimming), adjacent topography, etc., Existing field conditions, appurtenances, etc, shall be dashed and screened. Proposed shall be solid and bold.

3. Pole and equipment schedule (TS-2).
 4. Conductor and conduit schedule. The schedule shall include rows showing "percent fill" values, and conduit quantity/size (TS-3).
 5. Complete traffic signal design, including but no limited to, the following: conduit runs, detector loops (with input designations), detector handholes, vehicle and pedestrian signals (with phase designation), luminaries, pedestrian pushbuttons (with phase designation), controller, service pedestal, service point, emergency vehicle detectors, signing, striping, interconnect, CCTV Camera, and WiFi equipment.
 6. Phasing diagram. Designate type of flashing operation below the phasing diagram.
 7. Phasing for emergency vehicle preemption. Typically, protected left turn phases are combined with the concurrent through movement during EV preemption.
- C. Interconnect Sheet** - The interconnect sheet may be drawn at a scale of 1 inch equals 20 feet or 1 inch equals 40 feet and shall include a north arrow.
- D. Signing and Striping Sheet** – The signing and striping sheet shall be drawn at 1 inch equals 40 feet, and shall include the following:
1. A north arrow.
 2. Existing signing and striping – dashed or screened.
 3. Proposed signing and striping where line types shall closely approximate striping proposed.
 4. Centerline stationing with either begin and end modification stationing or lineal feet of modification specified along with the detail.

SECTION 7

STREETS

7-1 STREET CLASSES AND DESIGN WIDTHS – For purposes of geometric and structural design of all new public streets, streets shall be classified according to the following requirements, the appropriate Standard Drawings, and Table 7-1. Under certain circumstances, particularly within the infill areas of the City, changes to the standards can be made at the discretion of the City Engineer.

A. 20-Foot Street (Alley) – A Street depressed in the center with a right-of-way and surface width of 20 feet. Alleys are not permitted unless specifically approved by the City Council. STD DWG #ST-1A

B. Residential Streets – Where residential streets serve Low Density Residential (LDR) and Medium Density Residential (MDR) subdivisions, the following standards apply. In the case of High Density Residential (HDR) and (MDR) condominium development, please refer to City of Roseville Fire Department for minimum street sections.

LDR	MDR		HDR
	Fee Lot	Condo Style	
Public Works Standards	Public Works Standards	Fire Department Standards	Fire Department Standards

1. Minor Residential with Attached Sidewalks – A residential street servicing 100 or fewer lots shall be classified as a minor residential street. Minor residential streets shall have a right-of-way width of 42 feet, and back of curb to back of curb width of 34 feet. STD DWG #ST-2

2. Minor Residential with Detached Sidewalks – A residential street servicing 100 or fewer lots shall be classified as a minor residential street. Minor residential streets shall have a right-of-way width of 54 feet and a back-of-curb to back-of-curb width of 34 feet. STD DWG #ST-3

3. Primary Residential with Attached Sidewalks – A residential street servicing more than 100 lots or along which schools or parks are proposed to front, shall be classified as a primary residential street. Primary residential streets shall have a right-of-way width of 46 feet, and back of curb to back of curb width of 38 feet. STD DWG #ST-4

4. Primary Residential with Detached Sidewalks – A residential street servicing more than 100 lots or along which

schools or parks are proposed to front, shall be classified as primary residential. Primary residential streets shall have a right-of-way width of 58 feet and back-of-curb to back-of-curb width of 38 feet. STD DWG #ST-5

C. Collector/Industrial – A Street serving an industrial/commercial subdivision or a residential subdivision along which no home frontage is allowed shall be classified as a collector/industrial street. Collector/industrial streets shall have a right-of-way width of 58 feet, and back-of-curb to back-of-curb width of 48 feet. Additional right-of-way and pavement shall be provided at intersections for deceleration lanes, bus turnouts, and turn lanes, as specified by the City Engineer. STD DWG #ST-7

D. Minor Arterial – Those roads specified in the City's Capital Improvement Program as requiring a four-lane roadway shall be classified as minor arterials. Minor arterial shall have a right-of-way and back-of-curb to back-of-curb width of 76 feet, and shall provide a center 2-way left lane or raised landscape median as specified by the City Engineer. Additional right-of-way and/or pavement may be required for bus turnouts and at intersections and driveways for acceleration lanes, deceleration lanes, and multiple left turn lanes, as specified by the City Engineer. Additional right-of-way shall also be provided if sidewalks are not part of a landscape/pedestrian corridor adjacent to the back of curb. STD DWG #ST-8

E. Major Arterial – Those roads specified in the City's Capital Improvement Program as requiring a six-lane roadway shall be classified as major arterials. Major arterials shall have a right-of-way width of 100 feet and back-of-curb to back-of-curb width of 100 feet. Additional right-of-way and/or pavement may be required for bus turnouts and at intersections and driveways for acceleration lanes, deceleration lanes, and multiple left turn lanes, as specified by the City Engineer. Additional right-of-way shall also be provided if sidewalks are not part of a landscape/pedestrian corridor adjacent to the back of curb. STD DWG #ST-9

F Cul-de-Sac – The length of cul-de-sac streets as measured from the centerline of the intersecting street to the center of the bulb, shall not exceed 500 feet, unless a secondary emergency vehicle access is provided to the rear of the cul-de-sac bulb area, in which case the length of the cul-de-sac may be increased to maximum length of 1000 feet with the approval of the Fire Chief and City Engineer. In the case of stub streets associated with phased development, the combined street lengths as measured from the dead-end to the nearest through street shall be in accordance with the requirements for cul-de-sacs. Stub streets shall be terminated with a temporary bulb or a hammerhead conforming to the Standard Drawing. A barricade conforming to the Standard Drawings shall be installed at the end of all

streets that are proposed for future extension. For cul-de-sacs greater than 200 feet or where the end of the cul-de-sac is not visible from the centerline intersection of cross street, a “NOT A THROUGH STREET” sign shall be installed at the beginning of cul-de-sacs. STD DWG #ST-14 & #ST-15

- G. Partial Width Streets** – At the discretion of the City Engineer, partial width streets may be permitted along the boundary of a subdivision of other private development where the full right-of-way width cannot be dedicated. For collector and arterial streets, the developer shall, as a minimum, dedicate sufficient right-of-way and construct 32 feet width of pavement with full frontage improvements along the developing property and a two-foot wide gravel shoulder on the opposite side. Street centerline and pavement crown shall be placed at the ultimate location. Partial streets will not be permitted for residential streets.
- H. Private Streets** – Private streets shall be designed to the same structural and geometric requirements as those for public streets. Minimum pavement widths shall be 28-feet, and curb and gutter sections shall have a 3-foot minimum width. Sidewalks on one side of the street can be eliminated at the discretion of the City Engineer.
- I. Gated Entryways** – Gated entryways are allowed in private subdivisions. Gate access must be provided in accordance with Fire Department requirements. They shall be designed per the standard drawing and shall be privately maintained. See STD DWG #ST-25

**TABLE 7-1
STREET GEOMETRIC REQUIREMENTS**

CLASS	Right of Way Width	Back of Curb to Back of Curb Width	Radius of Curb Return at Right of Way & Back of Curb		No. of Travel lanes	Minimum Centerline Radius for Horizontal Curve
			ROW	BOC		
Minor Residential Attached Sidewalk	42 feet	34 feet	22 feet	26 feet	2	250 feet
Minor Residential Detached Sidewalk	54 feet	34 feet	16 feet	26 feet	2	300 feet
Primary Residential Attached Sidewalk	46 feet	38 feet	22 feet	26 feet	2	300 feet
Primary Residential Detached Sidewalk	58 feet	38 feet	16 feet	26 feet	2	500 feet
Collector/Industrial Attached Sidewalk	58 feet	48 feet	26 feet	31 feet	2	500 feet
Collector/Industrial Detached Sidewalk	48 feet	48 feet	26 feet	31 feet	2	500 feet
Minor Arterial	76 feet	76 feet	Residential 26 feet	31 Feet	4	1000 feet
			Collector/Industrial 26 feet	31 feet		
			Arterial w/o Accel Lane 50 feet	50 feet		
			Arterial w/Accel Lane 62 feet	62 feet		
Major Arterial	100 feet	100 feet	Residential 26 feet	31 Feet	6	2000 feet
			Collector/Industrial 26 feet	31 feet		
			Arterial w/o Accel Lane 50 feet	50 feet		
			Arterial w/Accel Lane 62 feet	62 feet		

7-2 RIGHT-OF-WAY WIDTH - Right-of-way widths shall be in accordance with these standards for the street classification under consideration or as

determined by the City Engineer. In no instance, without approval of the City Engineer, shall a street have a right-of-way width that is less than the street of which it is a continuation. Right-of-way requirements for widening at intersections shall be as specified by the City Engineer.

Building setbacks, landscaping requirements, and parking requirements shall be based on the ultimate right-of-way, regardless of the location of public street improvements.

A minimum 12.5-foot public utility easement (P.U.E.) shall be dedicated adjacent to all public and private streets and shall include traffic control appurtenances. Additional easement for sewer, water, storm drainage, landscaping, fencing, and all other public utilities shall be provided as required by the utility companies, these Design Standards, and as specified by the City Engineer.

Along the frontage of collector and arterial roadways, the right-of-way dedication shall include the landscape corridor adjacent to parcels zoned single-family residential (SFR).

7-3 ROADWAY SIGNAGE AND STRIPING - Signing and striping shall conform to the latest edition of the California Manual of Uniform Traffic Control Devices, (CMUTCD), unless modified by these standards, the Construction Standards, or in writing by City Engineer.

7-4 STRUCTURAL SECTION – All roads, both public and private, to be constructed within the City of Roseville shall be asphalt concrete over aggregate base and, if necessary, aggregate sub-base. It's desirable to the City to have all arterial roadways designed and constructed with the two-inch top lift of asphalt concrete, rubberized asphalt concrete material. Collector, residential and alley ways shall be designed and constructed with Type A, 1/2 –inch maximum medium asphalt concrete mix as described in the City's Construction Standards.

All pavement sections shall be designed on the basis of the resistance R-value as determined in accordance with the State of California, Department of Transportation design method and appropriate traffic indices (TI). If the subgrade has an "R" value of 10 or less, a geotextile fabric or other approved product shall be installed on subgrade prior to placement of AB or ASB material. In addition, the City Engineer may require the installation of edge drains in soils where the "R" value of the subgrade is 10 or less. The Geotechnical Engineer may submit for treatment of the subgrade material, with lime or cement or other approved product if suitable soils exist. This may be considered in lieu of geotextile fabric and base material with approval of the City Engineer.

Minimum TI values shall be as specified in Table 7-2 or as determined by City Engineer. At the discretion of the City Engineer, design traffic indexes (TI's) may be revised to reflect designated truck routes and/or where

projected future traffic volumes, based upon the City's Travel Demand Forecast Model, indicate increased or reduced trips.

TABLE 7-2

Street Classification	Minimum Traffic Index	Minimum Structural Section (Assumes R=50)		
		AC	AB	AS
Alley-Way	-	2"	6"	
Minor Residential	6	3"	8"	
Primary Residential	7	3"	9"	
Collector Non-Residential Collector	8	4"	9"	
Industrial	9	4"	7"	6"
Minor Arterial	10	5"	7"	6"
Major Arterial	11	5"	7"	8"

A. Structural Street Sections at Signalized Intersections – Pavement sections shall be designed by a Registered Geotechnical Engineer. Where traffic signals loops are anticipated or will be installed, the minimum structural section shall include 4" of AC on the minimum required AB for a length of 100-feet, from the curb return of the arterial street. When "cutting" in signal loops, the slot depth shall be cut to achieve a minimum of 1-inch cover over the loops.

7-5. CURB AND GUTTER REQUIREMENTS – Curb and/or gutter are required adjacent to all public and private streets. All sidewalk, curb and gutter shall be constructed of minor concrete conforming to the provisions in Section 71-5 (B) "Minor Concrete.

A. Type 1 Roll Curb and Gutter – Type 1 roll curb and gutter shall be installed adjacent to all single-family residential and duplex developments, poured monolithically with sidewalk. STD DWG #ST-17

B. Type 2 Vertical Curb and Gutter – Type 2 vertical curb and gutter shall be installed adjacent to all multiple residential, industrial/commercial developments, school and park sites, poured monolithically with sidewalk or as specified by City Engineer. STD DWG #ST-17

C. Type 6 Modified V-Gutter – Type 6 modified V-gutter may be used for alleys and parking lots. Type 6 modified V-gutter shall not be used in either public or private streets.

D. Cross Gutters – Cross gutters shall not be installed unless the intersection cannot be drained by an underground system. Installation of cross gutters shall be subject to the approval of the City Engineer.

7-6 SIDEWALK REQUIREMENTS – Sidewalks shall be constructed adjacent to all public streets. All sidewalks shall be Minor Concrete as specified in section 71-5B of the Construction Standards and shall conform to the provisions of Section 90 of the Caltrans Specifications. All sidewalks shall have a minimum thickness of six (6) inches on native soil, at 95% relative compaction, or four (4) inches thick with four (4) inches of AB at 95% relative compaction, and shall meet the following requirements:

A. Width – The required minimum width of sidewalks shall be as listed in Table 7-3 unless the project is located within a Specific Plan area. In such case, the sidewalk width shall conform to the appropriate Specific Plan Landscaping Guideline, which may be obtained from the City of Roseville Planning Department. The width of the curb shall not be considered as included in the width of the sidewalk.

TABLE 7-3

Street Classification	Sidewalk Width
Minor Residential – Attached Sidewalk	4 feet
Primary Residential – Attached Sidewalk	4 feet
Minor Residential – Detached Sidewalk	5 feet
Primary Residential – Detached Sidewalk	5 feet
Collector/Industrial – Attached/Detached Sidewalk	5 feet
Minor Arterial	8 feet
Major Arterial	8 feet

B. Slopes – Detached sidewalks shall have a maximum slope in the direction of travel of 5.0 percent unless otherwise approved by the City Engineer. If the longitudinal street grade is greater than 5.0 percent, the slope of the sidewalk shall not exceed the longitudinal slope of the street. Cross slope shall be a minimum of 1.0 percent and maximum of 2.0 percent sloped downwards towards the gutter.

C. Radius – Detached meandering sidewalks shall have a minimum radius of 50 feet.

D. Pedestrian Curb Ramps – Pedestrian curb ramps shall be provided at all intersections and Type A-7 driveways. All curb ramps shall conform to the requirements of these standards and the City's Construction Standards for slope criteria and standard design. It is the design engineer's responsibility to ensure that the intersection slopes designated on the improvement plans allow for the construction of pedestrian curb ramps that meet the above criteria.

At “T” intersection located at signalized intersections, ramps shall be constructed in the appropriate position on the side of the through street, directly opposite the ramps at the curb return of the “T” intersecting street. Such ramps are not required on the side of the through street on residential streets unless the distance to the next available street crossing is greater than 500 feet.

E. Sidewalk Barricades – Sidewalk barricades shall be required where satisfactory provisions cannot be made for pedestrians to safely continue beyond the terminus of the sidewalk. Where sidewalks end in fill area, the fill shall be extended beyond the end of the sidewalk for a minimum distance of six feet.

7-7 PEDESTRIAN WALKS AND BIKE PATHS – Pedestrian walks within a development shall have a minimum easement width of 8 feet and sidewalk width of 5 feet. All walks shall conform to the requirements of Title 24. Walks shall be constructed with a minimum thickness of six inches of Portland cement concrete, Minor Concrete as specified in Section 71-5B of the Construction Standards.

Bike paths design shall conform to Section 13 of these Standards. Combined pedestrian/bike paths (See Class 1A Bikeways within Section 13) shall be a minimum of 12 feet wide and be constructed of either Portland cement concrete, per section 71-5B, having a minimum thickness of 4 inches or 2 inches of asphalt concrete over 4 inches of aggregate base.

Pedestrian walks and Class 1A bike paths, if situated between lots, including paseos, shall be fenced with chain link fencing or other material as approved by the City of Roseville Development Services Department and shall extend from the street right-of-way to the back lot line. These fences shall be 6 feet high from the building setback line to the back lot line and 3 feet high from the building setback line to the street right-of-way line. Collapsible bollards shall be placed at both ends of all these pedestrian walks/Class 1A bike paths.

See Section 13 for other requirements for bike paths.

7-8 ROADWAY PROFILE STANDARDS – The following standards shall apply to the design of roadway profiles. Also refer to Section 3 of these Design Standards.

A. Grades – The minimum centerline (longitudinal) grades on new streets and gutter flow lines shall be 0.35 percent. The maximum street slope shall limit 5 percent except where a steeper street is determined necessary by the City Engineer due to existing topographical features. The minimum grade of gutter sections constructed along existing streets shall be 0.20 percent.

B. Cross Slopes – Standard cross slopes shall be 2.0 percent on all roadways. Certain roadways may require super elevations as directed by the City Engineer. Cross slopes on widened existing streets shall be a minimum of 1.5 percent and maximum of 3.0 percent. Where a street constructed with a super elevation is to be widened, the cross slope shall be as specified by the City Engineer.

C. Vertical Curves – The minimum allowable vertical curve length at the intersection of two grades shall be 50 feet; however, vertical curves may be omitted where the algebraic difference in grades does not exceed 2.0 percent. When vertical curves are required, they shall provide for adequate sight distance based on the minimum design speeds specified in Table 7-4. The vertical curve data shall be computed and shown on the plans and shall call out the tangent gradient length of curve, the elevations and stationing points of the beginning of vertical curve (BVC), end of vertical curve (EVC), PI, high and low points and along 25 foot intervals.

7-9 INTERSECTIONS – Street centerlines shall intersect one another at an angle as near to a right angle as is possible by tangents not less than 100 feet in length. In unusual circumstances the City Engineer may waive this requirement. Refer to Standard Drawings for required rights-of-way, pavement, taper lengths, etc. for intersections involving minor and major arterials.

At intersections, where two streets intersect, the centerline grade of the major street shall have a maximum centerline (longitudinal) grade of 2.0 percent for a minimum distance of 40 feet measured from the curb line of the intersecting street, except in unusually rough terrain, as determined by the City Engineer. The centerline of the minor street shall meet the crown slope at the projected lip of gutter. Crown slope may be reduced to 1.0 percent within the intersection if necessary.

7-10 OFFSET INTERSECTIONS – The following requirements apply to all offset intersections. Any variation to these requirements shall be subject to the approval of the City Engineer. **Distances are measured from centerline to centerline.**

A. Residential streets intersecting another residential street from opposite sides shall have their centerlines meet, or the offset between intersections shall be a minimum of 150 feet.

B. Minor and primary residential streets intersecting collector streets from opposite sides shall have their centerlines meet or the offset between the intersections shall be a minimum of 200 feet.

C. Minor and primary residential streets, and collector/industrial streets intersecting minor or major arterial streets from opposite sides, shall have their centerlines meet or the offset between the intersections shall

be as shown on standard drawing ST-47. This condition shall not apply where a raised center median is provided on the major street separating conflicting turning movements.

- D.** Intersections between two arterials shall have their centerlines meet, or the offset between the intersections shall be a minimum of 1320 feet.

7-11 ELBOW INTERSECTIONS – Use of expanded corners shall be limited to projected low volume residential, commercial and industrial streets and conditions where conformance to minimum horizontal length of centerline radius is not practical, and shall be subject to approval of the City Engineer.

7-12 DESIGN SPEED SIGHT DISTANCES

- A. Stopping Sight Distance** – The minimum stopping sight distance over any segment of roadway shall be designed for the vehicle speeds listed in Table 7-4 unless specific approval for a lesser design speed is received from the City Engineer. Minimum stopping sight distance shall be consistent with that specified in the latest edition of Caltrans Highway Design Manual, Section 201.1. The design stopping sight distance requirement is based on 3.5-foot height of eye and a 6-inch height of object.

**TABLE 7-4
ROADWAY DESIGN SPEEDS**

Street Classification	Roadway Design Speeds	Required Stopping Sight Distance
Minor Residential	25 mph	150 feet
Primary Residential	30 mph	200 feet
Industrial/Collector	40 mph	300 feet
Minor Arterial	50 mph	430 feet
Major Arterial	60 mph	580 feet

- B. Sight Distances For Cars Entering Side Streets or Driveways via Left Turn In** – The design of left turns from public and private roadways entering streets and driveways (as shown in Exhibit 7-1) shall provide minimum sight distance in accordance with Table 7-5 (single family residential exempt).

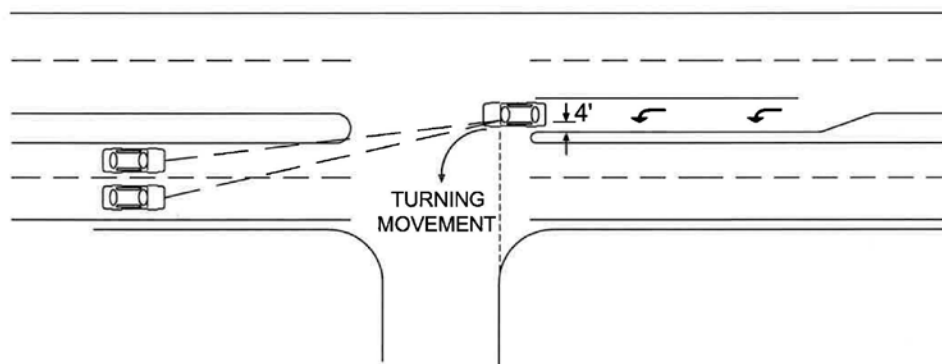
TABLE 7-5
SIGHT DISTANCE FOR CARS ENTERING
STREETS/ DRIVEWAYS BY LEFT TURN

Street Classification	Required Sight Distance
Industrial/Collector	440 feet
Minor Arterial	605 feet
Major Arterial	785 feet

**Taken from the 2004 AASHTO Geometric
Design of Highways and Streets**

EXHIBIT 7-1
LEFT TURN SIGHT DISTANCE:

SIGHT DISTANCE FOR CARS ENTERING SIDE STREETS OR DRIVEWAYS VIA LEFT TURNS.



Sight Distance is based on a 3.5 foot height at the location of the driver and a 4.25 foot object height in the center of the approaching lane of the major road. The left turn driver measurement is taken 4 feet from the left edge of the turn lane at the projected edge of the curb return (as shown above). If the major road is a multi-lane road, the controlling measurement for sight distance shall be based on the approach lane that is the worst case scenario.

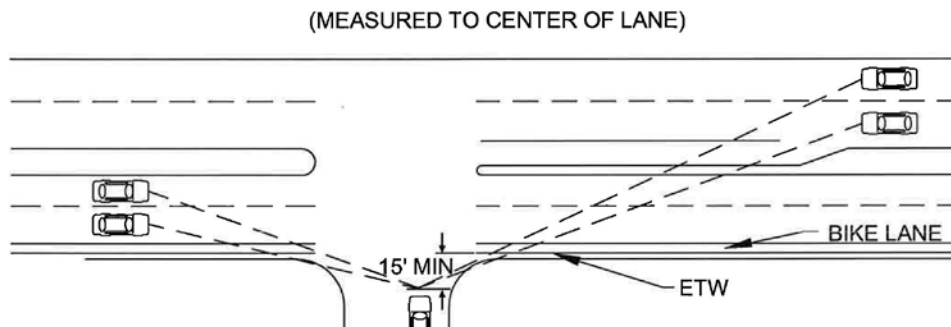
- C. Corner Sight Distances for Cars Exiting at Intersections and Driveways** – The design of all public streets, private streets, and major non-residential driveways (as shown in Exhibit 7-2) shall provide minimum sight distance in accordance with the following requirements. Design speeds and the corresponding minimum required corner sight distance shall be as specified in Table 7-6. Minimum corner sight distance shall be consistent with that specified

in the latest edition of Caltrans Highway Design Manual, Section 405.1A.

TABLE 7-6
DESIGN SPEEDS FOR CORNER SIGHT DISTANCE

Street Classification	Corner Sight Distance Design Speed	Required Corner Sight Distance
Minor Residential	30 mph	330 feet
Primary Residential	35 mph	385 feet
Industrial/Collector	45 mph	495 feet
Minor Arterial	55 mph	605 feet
Major Arterial	60 mph	660 feet

EXHIBIT 7-2
CORNER SIGHT DISTANCE:



Setback for the driver of the vehicle on the crossroad shall be a minimum of 10' from the edge of travel way plus the shoulder width of the major road, but not less than 15 feet as shown above. Line of sight for corner sight distance is to be determined from a 3.5 foot height at the location of the driver of the vehicle on the minor road to a 4.25 foot object height in the center of the approaching lane of the major road. (Highway Design Manual section 405.1(2)(a)). If the roadway being entered is a multi-lane road, the controlling measurement for sight distance shall be based on the approach lane that is the worst case scenario.

7-13 CENTERLINE RADII – The curve data (delta angle, length, tangent and radius) for all centerline curves shall be computed and shown on the plans. The minimum centerline curve radii shall be as specified in Table 7-1.

Special consideration may be given by the City Engineer for unusually difficult alignment problems.

- 7-14 DRIVEWAYS** – When driveways are abandoned or relocated, the driveway section shall be removed and replaced with curb, gutter, and sidewalk conforming to these standards. Parking is restricted within the throat depth of all driveways. All new driveways shall conform to the following requirements:

A. Types, Widths and Grades

1. Single Family Residential and Duplex Driveways shall have a minimum throat width of 16 feet and maximum throat width of 32 feet.

Lot pads shall be graded to accommodate maximum driveway slopes of 14 percent from back of right-of-way. Unusual terrain conditions may warrant waiver of this design subject to the approval of the City Engineer. Number of driveways accessing a single parcel is defined in Section 5-4 “Site Access” of these Design Standards.

2. Multi-Family/Office Commercial/Industrial Driveway main entrances shall have a minimum throat width of 35 feet. The minimum throat width may be reduced to 25 feet if the driveway is a secondary access or restricted to right turn movements. If a raised median is provided in the driveway throat, the driveway width shall be widened as necessary to accommodate the number of ingress and egress lanes required, with a minimum ingress lane width of 18 feet. The minimum driveway median width shall be 4 feet and the maximum width shall be 10 feet. The nose of the median shall be no less than 7 feet and no more than 15 feet from the gutter flow line.

Driveways located on collector streets shall be standard commercial driveways per the Standard Drawings unless the City Engineer deems a Type A-7 driveway appropriate for a particular project. Driveways on arterial streets shall be either at grade with appropriate drainage collection facilities or “Type A-7” per these Standards.

Driveway slopes shall have a maximum grade of 10 percent except from the edge of pavement to a distance 15 feet within the project. This area shall have a maximum slope of 2 percent. Unusual terrain condition may warrant waiver of this requirement subject to the approval of the City Engineer. If the driveway is other than a “Type A-7” driveway that provides cross gutter, a traffic control sign shall be provided.

B. Location – All aspects of site access (location of driveways, number of driveways allowed, spacing of driveways, etc.) are addressed in Section 5 of these Design Standards.

C. Sight Distance – Sight distance at driveways shall be as specified in Section 7-12.

7-15 BUS STOPS AND TURNOUTS – Bus turnouts and shelter pads shall be required at locations specified by the City Engineer. All bus turnouts shall conform to the STD DWG #ST-29. The size and location of bus shelter pads, whether existing or proposed, shall conform to STD Drawing ST-28 and shall be shown at all bus turnouts.

“Bus stops with or without shelters, shall have a concrete bus stop pad, with minimum dimensions of 8-ft long as measured perpendicular from the face of curb and 5-ft wide as measured parallel to the curb. Bus stop pads are to be kept clear of bus shelters and other street furnishings including bike racks, trash cans, street lights, and other vertical objects.”

7-16 DEVELOPER RESPONSIBILITY FOR IMPROVEMENTS TO STREETS

The following requirements apply to private development project adjacent to existing and proposed streets.

A. The Developer shall be responsible for upgrading streets within and adjacent to the developer's project where the pavement section of an existing street does not meet the structural section and/or the centerline grade and alignment requirements specified in these Design Standards for those streets.

Where the design centerline grade is to be higher than the existing, the Developer shall extend the overlay beyond the centerline of the street and shall neatly conform to the existing surface grade on the other side. The Developer shall also be responsible for overlaying any low areas where the new pavement is proposed to meet the existing pavement to maintain a uniform cross slope.

B. When making a connection to an existing stub street, the Developer shall be responsible for removing and reconstructing up to a maximum of twenty feet of the existing roadway to make a satisfactory connection as required by the City Engineer.

C. When widening to complete an existing partial street along a development project, or when removing existing curb and gutter, the Developer shall be responsible for saw cutting and removing a narrow strip along the outside portion of the pavement to provide a clean and stable pavement section for constructing against. Grinding of existing pavement (1½-inch minimum) shall be made to the next nearest edge of lane line. The width to be removed shall be determined by the City

Engineer. In the case of curb and gutter removal, minimum width of pavement cut shall be 2 feet.

- D.** All temporary approaches to existing roadways required as a result of the development shall be at the Developer's expense. The temporary approaches shall be paved with the structural section to be determined individually for each situation.
- E.** The Developer shall be responsible for relocating existing traffic signals and streetlights, and installing new traffic signals and street lights as necessary for new street and driveway locations. The Developer shall also be responsible for relocating existing traffic signals and street lights as necessary for the installation of new curbs or new curbs and sidewalks at locations where there are no existing curbs or curbs and sidewalks, or, where existing improvements do not meet current standards. Traffic signals must remain operational during all construction within signalized intersections.
- F.** The Developer shall be responsible for constructing or modifying median island curbs where required by these standards, or when required for traffic control as a result of the development, as determined by the City Engineer.
- G.** The Developer is required to provide frontage improvements along existing and proposed roadways at the Developer's expense. Frontage improvements include, but are not limited to, sidewalk, curb and gutter, center median, 18 feet pavement width, additional pavement width beyond the 18-foot for intersection widening (including acceleration and deceleration lanes, bus turnouts, widening for dual left turns, etc.), drainage system, landscaping, soundwalls, street lighting, roadway signing and striping, and all utilities (including traffic signal interconnect if applicable). For minor residential, primary residential, collector and industrial streets, the Developer shall provide the full right-of-way improvement.
- H.** For development within the "infill" areas of the City, the level of improvements to public streets adjacent to the development site shall be determined on a project specific basis at the discretion of the City Engineer.
- I.** The Developer shall be responsible for all drainage facilities (bridges, pipes, culverts, and appurtenances) crossing new streets within or adjacent to the project.
- J.** The Developer shall be responsible for all necessary modifications within the public right-of-way and the project site to comply with state and federal standards for access for disabled, including but not limited to sidewalk ramps.

7-17 TRENCHING IN EXISTING PAVED ROADWAYS – All trenching in existing roadways shall conform to the Standard Drawings and the Construction Standards. The Developer may be required to coordinate trenching work schedules to avoid cutting pavement where repaving is planned by the City. All cuts within a paved street shall be subject to the City's Trench Cut Ordinance. The Trench Cut Ordinance fee shall be paid prior to the approval of any plans. In no case will trenching be permitted on any street that has been constructed or overlaid within the last five years (Moratorium Streets). The City Engineer under unusual circumstances may give special consideration.

7-18 STREET NAMES AND STREET NAME SIGNS – Street names shall be proposed by the Developer and shall be shown on the tentative map when submitted. These names shall be subject to approval by the City Council. No duplication of names already in use or previous proposed or sound alike names will be permitted. Street name signs shall be furnished and installed by the Developer. The requirements for location of signs do not apply to signalized intersections since signals will have their own street name signs. Street name signs shall conform to City of Roseville Construction. Refer to Roseville Construction Standards Section 56 "Signs".

A. Location and Number Required – The required number of street name signs installed and location, depends upon the width of street right-of-way and shall conform to the following:

Case 1 – Two street name sign installations (with four sign plates on each post) are required at each intersection where one or both of the intersecting streets are a collector or arterial street. At a four-way intersection, the installations shall be located on both far right hand corners of the intersection relative to the direction of travel on the street having the greater right-of-way width or on the major street if right-of-way widths are equal.

At a "T" intersection, one sign shall be installed on the far right hand corner of the intersection relative to the direction of travel on the through street and the other shall be installed along the left side of through street relative to the direction of travel at a point directly opposite the centerline of the "T" intersecting street. One sign plate should be omitted from the standard four-plate installation at the "T" intersection sign locations where an approach street does not exist.

Street name signs shall be located adjacent to the major street at the end of the curb return.

Case 2 – One street name sign installation (with four sign plates on each post) is required at each intersection where both intersecting streets are residential streets. At a four-way intersection, the

installation shall be located at one of the far right hand corners of the intersection relative to the direction of travel on the street having the greater right-of-way width or on the major street if the right-of-way widths are equal.

At a "T" intersection, the installation shall be located on the far right hand corner relative to the direction of travel on the through street.

Street name sign shall be located at the midpoint of the curb return.

Case 3 – For arterials with frontage roads, the street name sign installations shall be located in the divider strip between the frontage road and the main traveled way of the highway at the near side of the intersection. All other requirements shall be as outlined above, except that only one sign will be required (in the divider strip in line with the centerline of the minor street) when there is no opening in the divider strip for access to main highway.

7-19 SURVEY MONUMENTS – The consulting engineer shall place survey monuments at the following locations:

- A.** At the intersection of street centerlines.
- B.** At the beginning and end of curves on the street centerline.
- C.** At the center of all cul-de-sacs and elbow points.
- D.** At the subdivision boundary corners and at such other locations so as to enable any lot or portion of the improvements to be retraced or located, as directed by the City Engineer.

The above-described monuments shall be as follows:

- 1.** Subdivisions boundary monuments except those in street pavement shall be not less than 1-inch solid steel or 1- $\frac{3}{4}$ inch galvanized iron pipe 30 inches in length, capped and tagged.
- 2.** Subdivision monuments in street pavements shall be no less than a $\frac{3}{4}$ inch galvanized iron pipe, 18 inches in length. Top of pipe shall be driven flush with surface pavement.
- 3.** All monuments in street pavement shall be monument wells, conforming to the standard drawing and shall be Detail ST-36 and shall be placed at all street intersections, centers of street cul-de-sacs and elbow points. In addition, monument wells shall be required on street centerlines and located such that there will be a clear line of sight distance between the two monuments within the

street right-of-way. These will normally be located at points of curvature not exceed 1000 feet.

4. Lot corners shall have a ½ inch rebar at rear corners. Front corner and side lot lines shall be projected and marked on the back of sidewalk with a sawcut score mark 4 inches long and ¼ inches deep or 1 inch brass marker.
5. Permanent survey monuments shall be placed by the Consulting Engineer at all section and quarter corners within the development. The section corner monuments shall be Class “B” concrete, poured in place, with minimum dimensions of 6” diameter x 24” deep, with a brass cap in accordance with Bureau of Land Management Standards.

All such monuments shall be referenced to permanent objects located nearby and all ties shall be furnished to the City Engineer for general public use. Final acceptance of the public improvements will not be made until such ties have furnished to the City Engineer.

The Consulting Engineer shall also place a note on all construction plans stating that the Contractor is responsible for the protection of all existing monuments and other survey markers.

7-20 BENCHMARKS – In locations where a new benchmark will be required, as determined by the City Engineer, the Consulting Engineer’s Land Surveyor (L.S.) will set in concrete a 3¼ inch brass cap, provided by the City Engineer. The L.S. shall then run a second order, class two closed loop survey from an approved City of Roseville benchmark to establish the U.S.G.S. elevation of the cap. The level notes shall include the new benchmark elevation in North American Vertical Datum of 1988 (NAVD 88) and National Geodetic Vertical Datum of 1929 (NGVD) vertical datum. The L.S. shall also include the California II State Plane Coordinate values if the new benchmark in North American Datum (NAD 83). All new benchmarks shall have a NGS stability rating of A or B. The level notes shall be submitted to the City Engineer for review and approval.

Licensed Surveyors recovering existing benchmarks for use in their work and for work with Consulting Engineers shall provide the City Engineer with the elevation of the recovered benchmarks in NAVD 88 and NGVD 29 vertical datum. The L.S. shall also provide the City Engineer with the California II State Plan Coordinate values for recovered benchmarks.

After approval of the notes, the new benchmark will be assigned a number that the developer’s engineer will mark on the brass cap, along with the date, and R.C.E. or L.S. number of the person certifying the level notes.

Benchmarks shall be provided where specified by the City Engineer and at all culverts 60-inches or greater, bridge crossings passing a 100 year flow of 250 cfs or greater, and within subdivisions that are greater than 60 lots.

SECTION 8

DOMESTIC WATER SUPPLY SYSTEM DESIGN

- 8-1 INTRODUCTION** – These improvement standards shall govern the engineering design of all domestic water systems intended for operation and maintenance by the City of Roseville.
- 8-2 DESIGN CRITERIA** – These criteria shall apply to the engineering design of all water systems intended for operation and maintenance by the City of Roseville. The intent of these criteria is to provide a water system that will dependably and safely convey high quality water throughout the distribution system.
- 8-3 CURRENT STANDARDS** – Pertinent and current requirements of the following agencies or standards shall be complied with. In case of conflicting design criteria, standards set forth by the City of Roseville, as established herein, shall govern.
- A.** United States Environmental Protection Agency (EPA) Drinking Water Regulations.
 - B.** Laws and Standards of the State of California, Department of Public Health Services relating to Domestic Water Supply.
 - C.** City of Roseville Design Standards.
 - D.** City of Roseville Industrial Waste Regulations (Cited in Section 9.2E)
 - E.** Rules for installation of individual water services (Cited in Section 9.10C)
 - F.** City Code for taps to water system
 - G.** Title 17, Chapter V, Sections 7583-7622, California Administrative Code regarding cross-connections and backflow prevention
 - H.** Roseville Fire Code
 - I.** Latest Edition of the American Water Works Association (AWWA) Standards.
- 8-4 WATER SUPPLY QUALITY** – The quality of water supplied to the City's distribution system shall conform to the Environmental Protection Agency Drinking Water Act, and the State Department of Health Services Drinking Water Standards.

8-5 WATER SUPPLY PRESSURE – Normal-operating pressures of not less than 50 PSI nor more than 100 PSI shall be maintained at service connections to the distribution system, except that during periods of peak domestic and fire demand, the pressure shall not be less than 20 PSI.

8-6 FLOW DETERMINATION – Determination of flow volumes required for a specific land use category shall consider maximum day domestic demands occurring in conjunction with an emergency fire flow demand. For design of the distribution system, the following unit demand factors shall be assumed.

Land Use Category		Average Day Unit Water Demand Factors
Residential	LDR (<3.5 DU's/Ac)	728 gpd/DU
	LDR (3.5 to 5.0 DU's/Ac)	600 gpd/DU
	LMDR (>5.0 to 6.0 DU's/Ac)	521 gpd/DU
	LMDR (>6.0 to 8.0 DU's/Ac)	430 gpd/DU
	MDR (>8.0 to 12.0 DU's/Ac)	323 gpd/DU
	HDR (>12.0 to 16.0 DU's/Ac)	288 gpd/DU
	HDR (>16.0 DU's/Ac)	177 gpd/DU
Commercial/Other	Commercial/Retail	2,598 gpd/ac
	Business Professional	2,598 gpd/ac
	Light Industrial	2,598 gpd/ac
	Industrial	2,562 gpd/ac
	Railroad Yard	109 gpd/ac
	Elementary Schools	3,454 gpd/ac
	High Schools	4,068 gpd/ac
	Public (Fire Station, etc)	1,780 gpd/ac
	Park/Recreation	2,988 gpd/ac
	Open Space/Major ROW	-
	Vacant/Unassigned	-

8-7 PEAKING FACTORS – The average day demand to maximum day demand peaking factor shall be 2.0. The maximum day demand to peak hour demand peaking factor shall be 1.7 (3.4 average day to peak hour).

8-8 REQUIRED FIRE FLOWS – For areas of the general type noted below, the indicated water supply for fire flows shall be provided with the initial development. Expansion or change in zoning of the development shall be subject to the requirements of the California Fire Code (CFC hereafter) as adopted by the Roseville Fire Department (RFD hereafter). The RFD shall determine all fire flows.

A. Residential Areas – The fire flow demand for detached single family dwelling units shall be a minimum of 1,500 gallons per minute (gpm) in accordance with the CFC as adopted by the RFD. For fire flow greater than 1,500 gpm, each fire hydrant shall maintain 1,000 gpm or fraction thereof based on the provisions of the CFC.

Note: Automatic Fire Sprinklers – Single-family homes equipped with automatic fire sprinklers systems shall require a minimum 1-inch water service and meter as determined by the RFD. The minimum 1-inch water line shall start from the public main to the required water meter. Service size and meter size shall be as approved by the RFD.

B. Multi-Family Areas – For attached multi-family units, the fire flow shall be determined by the Roseville Fire Department. The maximum fire flow however shall not exceed 4,000 gpm provided the building is fully sprinklered in accordance with the CFC as adopted by the RFD. For buildings that are not sprinklered, contact the RFD. For fire flow demand greater than 1,500 gpm, each fire hydrant shall be 1,000 gpm or fraction thereof based on the provisions of the CFC.

C. Commercial, Business, Industrial or School District Areas – The maximum fire flow shall be determined by the Roseville Fire Department. The required fire flow however shall not exceed 4,000 gpm, provided all the buildings are fully sprinklered in accordance with the CFC as adopted by the RFD. For buildings that are not sprinklered, contact the RFD. For fire flow greater than 1,500 gpm, each fire hydrant shall be 1,000 gpm or fraction thereof based on the provisions of the CFC.

8-9 LOCATION IN EXISTING STREETS – Where water mains or services are to be located in an existing street, factors such as curbs, gutters, sidewalks, traffic conditions, traffic lane conditions, pavement conditions, future street improvement plans, and existing utilities shall be considered. The approval of the Environmental Utilities Director and City Engineer shall be obtained in every instance.

8-10 LOCATION IN UNPAVED AREAS – All mains in unpaved areas shall be ductile iron pipe and marked every 150 feet with a blue 5-foot 6-inch composite utility marker. A decal shall be placed on the marker stating “CAUTION WATER MAIN.” Utility markers shall be Carsonite or approved equal with anchor barb kit. The first utility marker shall be placed within 20 feet of the public roadway.

8-11 TRANSMISSION SYSTEM DESIGN – Transmission mains are 16 inches in diameter or larger. Standard transmission main sizes are 16-, 24-, 30-, 36-, 42-, 48- and 54- inches in diameter. Sizing and layout of transmission mains shall conform to the Master Water Supply Plans of the City of Roseville Environmental Utilities Department. Technical

specifications for water transmission mains shall be a requirement of the proposed improvements plans. Under no circumstances shall fire hydrants or water services be directly connected to a transmission main, with the exception of hydrants that are acting as blow-offs.

A. Transmission Main Location – All transmission mains shall be installed within public rights-of-way and easements.

1. Mains shall be located 3 feet from the lip of gutter on the northerly and westerly side of the street. If conflicts exist at this location, then the main may be installed within an easement immediately adjacent to and behind the property line fronting the public right-of-way, subject to approval of the Environmental Utilities Director.
2. A minimum horizontal separation of 10 feet shall be maintained between sanitary sewer and recycled water mains. A minimum cover of 48 inches shall be maintained at all locations.
3. Transmission mains shall maintain a minimum vertical clearance of 1 foot from all other utilities.

B. Transmission Main Appurtenances

1. Valves shall be spaced no more than 2,000 feet apart.
2. Inspection manholes shall be placed every 1,500 feet. A minimum of one inspection manhole shall be located between two valves unless otherwise approved by the Environmental Utilities Director.

C. Corrosion Protection - A corrosion protection study shall be included with improvement plan submittals. Corrosion protection facilities shall be identified from the roadway with the curb stamp “CP-W”.

8-12 DISTRIBUTION SYSTEM DESIGN – Standard distribution main sizes are 6-, 8-, and 12- inches in diameter. Sizes of mains shall be such that the stated normal pressures, as specified in Section 8-5, and the minimum requirements for main spacing, specified below, are maintained. The distribution system shall be designed in grid form to provide equalized pressures throughout the system equalized under varying rates and location of demand. The minimum pressures and flows specified in these design standards shall govern the design. The following shall be considered during system design:

A. Hydraulic Analysis – A Hardy-Cross network hydraulic analysis shall be provided to the Environmental Utilities Department upon request.

1. The hydraulic analysis submitted shall include two copies of the following items:

- a. The data input files, as well as the analysis results in electronic format.
 - b. Information on the proposed development (e.g. type of development, number of acres, number of units, fire flow requirements, etc.).
 - c. Data sheets outlining all assumptions (e.g. method used to assign demands to corresponding junction nodes and source HGL's used).
 - d. Map identifying pipe and node numbers and their locations.
 - e. Fire hydrant locations.
 - f. The name and version of software used for the analysis.
 - g. Elevations of junction and source nodes. The elevations used in the network hydraulic analysis shall be based on a project grading plan or the anticipated final elevations. If the final grading plan deviates significantly from the elevations used in the analysis, a revised analysis will be required.
 - h. Staging or phasing of the development.
 - i. Appropriate off-site demands.
2. The Hazen-Williams formula shall be used in the analysis of the system. The roughness factor shall be as follows:
- a. $C=130$ for all new cement-line, PVC $C=900$, and ductile iron pipes
 - b. $C=130$ for all existing pipes greater or equal to 16 inches in diameter
 - c. $C=120$ for all existing pipes less than or equal to 12 inches in diameter
3. When identifying the fire flow available in a network analysis, use the hydrant located at the development's weakest point (highest point in the development and/or last hydrant on a dead-end main). Also verify the hydrant is located at a junction node. The maximum delivery from any hydrant of the type conforming to current City Standards shall be limited to 1,500 gallons per minute.
- B. Pipe Sizes** – The minimum pipe size for residential development shall be 6 inches in diameter. For commercial developments, the minimum pipe size shall be 8 inches in diameter.

C. Stubs – Stubs for future developments shall be fully restrained ductile iron pipe originating from the water main.

8-13 WATER MAIN LOCATION – Water mains shall be installed in public rights-of-way or easements granted to the City.

A. Location – The following horizontal and vertical criteria shall be used to locate water mains:

1. Mains shall be located 3 feet from the lip of gutter on the northerly or westerly side of the street. If conflicts exist, then the main may be installed immediately adjacent to and behind the property line fronting on the public right-of-way, subject to approval of the Environmental Utilities Director. Arterial streets may require dual mains, one on each side of the street, as approved by the Environmental Utilities Director.
2. If it is necessary to install a water main outside of the public right-of-way, an easement dedication to the City shall be required. Water mains shall be centered within their easement. Easements shall be located completely on one side of a property line or fence. Dedicated easements shall be clear of all permanent structures, building eaves, roof lines and the future trunks of large tree species. Temporary construction easements of adequate size shall also be provided. The easement width shall be the greater of the following:
 - a. Minimum width of easement shall be 15 feet.
 - b. All easements shall have a minimum width equal to the required trench width according to the standard detail for trench backfill plus 2 additional feet of width for every foot of depth of the pipe as measured from the bottom of the pipe to finished grade. All water mains shall be centered within their easement.
 - c. Water mains located outside of paved area shall be ductile iron.
3. Water mains located between lots shall require an access easement or pedestrian walkway as determined by the Environmental Utilities Director.
4. Water mains shall maintain a minimum horizontal separation of 10 feet between sanitary sewer mains and recycled water mains. All other utilities shall maintain a minimum 5-foot separation sidewall of pipe to sidewall of pipe. The water main shall be a minimum of 12 inches higher than sewer and recycled water systems. In cases where the water main must cross under a recycled water or sanitary sewer main or service, and with the permission of the Environmental Utilities Director, the water main shall be ductile iron to a distance of 5 feet on each side of the crossing and be concrete-encased. When

crossing sanitary sewer force mains, the water main shall be installed a minimum of 3 feet above and be ductile iron a minimum of 5 feet on each side of the force main.

5. Water mains shall maintain vertical separation of 12 inches between storm drains and other dry utilities. The vertical clearance may be reduced to 6 inches with the approval of the Environmental Utilities Director.
6. Water mains under large structures such as culverts and large diameter storm drains shall be ductile iron and installed within a casing per these standards. The casing shall extend beyond the structure a minimum of 5 feet or the depth of the water main on each side.

B. Vertical Elevation Change – Mains designed with a vertical elevation change using angle fittings shall use a segment of ductile iron pipe with an approved restraint system between the two angle fittings.

C. Cover - A minimum cover of 36 inches and a maximum cover of 60 inches shall be maintained as measured from the outside bell of the pipe to gutter flow-line for distribution mains. A minimum cover of 48 inches as measured above shall be maintained for transmission mains.

D. Dead-End Mains – Dead-end mains shall be eliminated wherever possible by looping the system. Blow-offs conforming to the Construction Standard details shall be installed on all permanent or temporary dead-end mains. Removal of the blow-off at the end of cul-de-sacs and service connection to the end of the main is not permitted without prior approval by the Environmental Utilities Director.

E. Warranty Inspection of Water Main Stubs - As a requirement, water stubs are provided to subdivisions as a courtesy by developers during the construction of backbone infrastructures in streets to prevent cutting up the newly paved streets when the subdivisions are ready to develop. These stubs become an integral part of the water system and subsequently the responsibility of the developers of the subdivision and are therefore imperiled to both construction and warranty inspections. This practice saves future developers construction time and cost that would have otherwise been spent on tie-ins and street repairs and in some instances prevents delays in the event a street has a moratorium. Since these stubs are provided at no cost to future developers, it is our position, hence our policy, that it is the responsibility of the contractors to test and repair these stubs, if found damage, prior to tie-ins. A note to this effect shall be placed on the improvement plans.

F. Public Lines in Commercial Developments – Water mains shall be located within drive aisles unless otherwise approved by the Environmental Utilities Director. The Design Engineer shall minimize

the length of publicly-owned mains where on on-site water loop is required.

8-14 VALVES – Sufficient valves shall be provided on water mains to minimize customer service interruptions and sanitary hazards during repairs and future development.

A. Locations – Valves shall be generally located as follows:

1. No single shutdown will result in shutting down a transmission main.
2. At minimum intervals of 500 feet in school, commercial, industrial, or multi-family residential developments.
3. In residential areas, valves shall be spaced such that no single shutdown will result in shutting off water to more than 20 services or 800 feet of water main, whichever occurs first.
4. Valves shall be located such that any section of main can be shut down without going to more than three valves to shut down the section main.
5. All tees shall have a minimum of two valves. Commercial services 6 inches and greater shall have a valve on each leg of the tee for a total of three valves.
6. All crosses shall have a minimum of three valves.
7. Valves shall not be located in street gutters, valley gutters, or driveways.
8. A valve shall be installed on each side of a creek bridge, major highway, or as required by the Environmental Utilities Director.

B. Removal and Abandonment – Any valve outlet installed prior to lot development and subsequently not required shall be removed in its entirety. If removal is not practical, the valve shall be abandoned in the closed position and the lateral shall be cut, capped, and finished with an adequate thrust block. The lid shall be welded shut and painted red. The following note shall appear on the construction drawing:

The Contractor shall cut the existing pipe where shown on the drawing and install a restrained cap complete with thrust block. Where a joint or coupling in the existing pipe is uncovered at the cut and cap locations, the installation of a plug may be permitted with approval from the Environmental Utilities Director.

C. Valve Extension Stems – Valve extension stems are required where the distance from the top of the valve box to the top of the operation nut exceeds 40 inches. The valve extension stem shall be a minimum of 24 inches long and shall be within 24 inches of the surface.

D. Air Relief Valves – In the absence of services to relieve air trapped in high points of the water main, air relief or air vacuum relief valves are required on pipeline high points and changes in grade.

8-15 HYDRANTS AND BLOW-OFFS

A. Location – Hydrants and blow-offs shall adhere to the following criteria:

1. Fire hydrants shall be placed at street intersections wherever possible. Hydrants located at intersections shall be installed at the curb return on the same side of the water main connection.
2. Fire hydrants and blow-offs not located at intersections shall be installed on property lines between lots.
3. Not more than three hydrants shall be installed on an 8-inch main between intersecting 12-inch mains. The pipeline connecting the hydrant and the main shall be a minimum of 6 inches, with a gate valve flange connected to the main.
4. A blow-off assembly shall be installed on all permanent and temporary dead-end runs. A 2-inch blow-off shall be used on mains 12 inches and smaller. A 4-inch blow-off shall be used on mains 16 inches and larger. In no case shall the location be such that there is a possibility of back-siphonage into the distribution system.
5. Blow-off assemblies shall be located at low points along transmission mains.

B. Spacing – Fire hydrants and blow-offs shall have a maximum spacing of 500 feet measured along the street frontage in residential areas and a maximum spacing of 350 feet in all other areas. Where new water mains are extended along streets where hydrants are not needed for protection of buildings or similar fire problems, fire hydrants shall be provided at spacing not to exceed 1,000 feet to provide for transportation hazards. Refer to Roseville Fire Code for the number and distribution of fire hydrants served by private fire service water systems.

C. Cul-de-sacs and Dead-end Streets – Hydrants shall be required within a cul-de-sac or dead-end street measuring more than 250 feet as measured from the curb return of the intersecting street and the end of the bulb or street. A minimum 8-inch water main shall extend up to the hydrant tee.

D. Valves – Hydrant valves shall be placed with a minimum separation of 15 feet from the hydrant.

8-16 WATER SERVICE – Water services shall be installed at the time the water main is constructed. Service stubs 2 inches and smaller shall be copper. Service stubs 3 inches and larger shall be fully restrained ductile iron pipes. Services from mains installed in private roads shall be extended 1-foot beyond the edge of pavement. Water services shall also conform to the following requirements:

A. Location – Water services for residential subdivisions shall be located 42 inches from the property line per these Construction Standards. The building service shall be located to provide the most direct connection to the main. Every effort shall be made to pair services.

B. Curb Stamp – The curb shall be stamped with a “W” at all service locations.

C. Sizing – The standard size of a single-family residential service line shall be a minimum 1- inch service or as determined by Roseville Fire Department. Schools, commercial, industrial, or a multi-family residential developments shall be provided with a larger service subject to approval by the Environmental Utilities Director.

D. Spacing – For service laterals 2 inches in diameter or smaller, service saddles shall be a minimum of 12 inches from the end of the main and 24 inches to any other service saddle or pipe joint.

E. Service Taps – The Environmental Utilities Department reserves the right to make all water service taps onto existing mains upon application for a service tap and authorization for payment. Work by the City shall be performed on a time and materials basis. A note to this effect shall be placed on the plan sheet which shows a detail of the area that requires such tapping. The service tap application shall be made to the Environmental Utilities Department a minimum of two weeks in advance of the time the tap is desired. All connection fees must be paid prior to the time of application. All excavation, backfill and the installation of the remainder of the water service shall be performed by the Contractor.

F. Water Meters – Water meters shall be installed on all water services. Meters shall be purchased through the City and installed by City forces upon plan approval and payment of the connection fees.

8-17 RESTRAINT – Joint restraint shall be achieved by means of a mechanical joint restraint device. Full pipe restraint shall be required within bridges, casings, dead end runs, temporary dead end runs, and as determined by the Environmental Utilities Director. Restrained pipe within casings or bridges

shall be fully extended or “stretched out” to remove the slack between the joints the entire length of the structure. A note shall be placed on the plans. Thrust blocks shall not be used unless specifically called out on the plan set and approved by the Environmental Utilities Director. In the case of hydrant runs and dead-ends, thrust blocks shall be used in addition to mechanical restraints as a redundant feature. Restraint calculations shall be submitted with the plan review. Restraint calculation parameters are as follows: soil type ml, granular fill, 1.5 to 1 safety factor, trench type 4, and minimum test pressure of 150 psi.

- 8-18 WORK NEAR EXISTING WATER MAINS** – Existing transmission water mains shall be clearly shown on the plans. The plans shall have a caution note on the cover sheet, plan/profile sheets, and grading sheets where the transmission main is shown as existing. The notes shall read as follows:

CAUTION EXISTING (name size) WATER MAIN.

No construction shall be permitted within the water main easement without the presence of the Environmental Utilities inspector. Prior to start of construction, 48-hour notice shall be given. Heavy equipment and vibratory equipment may cross designated segments of the water main with a minimum of 10 feet of cover or approved equivalent. The City shall inspect the condition of the existing main prior to paving. Request for inspection shall be made one week in advance.

A. Water Mains 16 Inches and Larger:

1. The Environmental Utilities Department shall inspect the interior of the existing water transmission main prior to paving. If damage to the pipe resulting from construction activities is discovered, the Contractor shall be billed for repairs. A minimum of one-week advance notice is required prior to inspection.
2. The Contractor shall provide the City with a construction schedule, and a list of equipment proposed to be used within the water main easement.
3. A plastic mesh fence shall be installed on both sides of the water main a minimum of 10 feet from the centerline prior to the start of construction and/or grading operations

- 8-19 WATER IMPROVEMENT PLAN REQUIREMENTS** – Plans for the construction of water infrastructure, whether in conjunction with other improvements or for a water project only, shall conform to these standards, the Construction Standards, and meet the following requirements.

A. Water Study – A water study or water master plan as determined by the Environmental Utilities Director may be required prior to review of

the water design if there is a possibility that adjacent areas might require service through the subject property.

B. General Requirements – Plans for the water improvement project shall include a layout sheet, plan and profile of each public water line, and necessary detail drawings. Reference to the Construction Standards shall be made for all standard details.

C. Layout Sheet – Improvement plans shall include an overall map which shows the project boundaries, water mains, valves, services, and other important items of the work.

1. A parcel which benefits from and financially participates in a water construction project, but is not included within the project boundaries, shall have a note to this effect placed on the layout map and on the plan and profile sheet if the parcel appears thereon. Parcels which make use of those facilities may be subject to additional fees at the time of connection, if the participation has not been so noted.

D. Plan and Profile Sheets – Water lines to be maintained by the City of Roseville shall be shown on both plan and profile. The following standards, with respect to drafting and the information to be included on the plan and profile sheets, generally apply to project in developed areas.

1. Water lines to be constructed shall be indicated on profile by parallel lines spaced to show the pipe diameter to scale. The length, size, and type of pipe material shall be printed parallel to the horizontal grid lines and approximately halfway between the ground surface and pipe line. The profile shall note all proposed appurtenances. Existing facilities shown on the profile shall be dashed or distinguishable from proposed improvement. Manhole identification on the plan view may be oblique. Stationing shall appear at the lower edge of the profile grid directly under the appurtenance.
2. Proposed water services shall be indicated on the plans per the Construction Standards details.
3. Improvements or lots shown on a plan sheet but served to a line shown on another plan sheet shall have the direction of service shown by a small triangle and letter "W."
4. Both permanent and working easements shall be shown to scale and dimensioned on the plans.
5. Proposed water lines shall be adequately dimensioned from street centerline. If the water line is to be located in an easement, sufficient

dimensions and bearings from physical features to locate the line in the field shall be shown on the plans.

6. Existing gas, sewer, storm drains, and all other utility lines above or below ground shall be shown on the plans.
7. Trees and other objects within 10 feet of the construction centerline shall be dimensioned on the plans relative to the construction centerline. The diameter of tree trunks and interfering heavy tree branches shall be noted. Removal of a tree or object, or other special handling shall be noted. Written documentation of any special arrangements regarding preservation of property shall be provided to the Environmental Utilities Director if no easement document is involved. If an easement is negotiated, all special arrangement shall be included in the easement document. Tree removal must be approved by the Planning Department.
8. Culverts shall be shown on both plan and profile when crossed by the construction or when parallel and within 20 feet of the construction line. Type, size, and invert elevation shall be called out.
9. No trees or permanent structures shall be placed within water easements without the approval of the Environmental Utilities Director.

E. Detail Drawings – Details not covered by the Construction Standard Detail sheets shall be shown on the plans.

8-20 RECORD (AS-BUILT) PLANS –The Contractor/Developer shall keep an accurate record of all approved deviations from plans and shall provide a PDF electronic, full size bond and 11 x 17 copy of the as-built plans prior to final acceptance of the completes improvements. Each sheet of the plans shall be marked “AS-BUILT” or “RECORD DRAWING”. “AS-BUILT” or “RECORD DRAWING” of signal plans, water, sewer and storm drain composite in plan view only, and parcel and final maps shall also be submitted on computer disk in DXF or DWG format.

SECTION 9

SANITARY SEWER DESIGN

- 9-1 DESIGN CRITERIA** – These criteria shall apply to the engineering design of any sanitary sewer system to be maintained by the City of Roseville, or with those exceptions as noted, within private multiple ownership residential or multi-parcel commercial and industrial developments.
- 9-2 AVERAGE FLOW DETERMINATION** – The determination of average dry weather flows for design purposes shall be based upon the best available information concerning land use and density as determined by the Environmental Utilities Director. This information may include approved land use and density in accordance with current zoning in the absence of more specific information pertaining to expected development. Average dry weather flow factors are listed in Table 1.

Table 1 – Average Dry Weather Unit Flow Factors

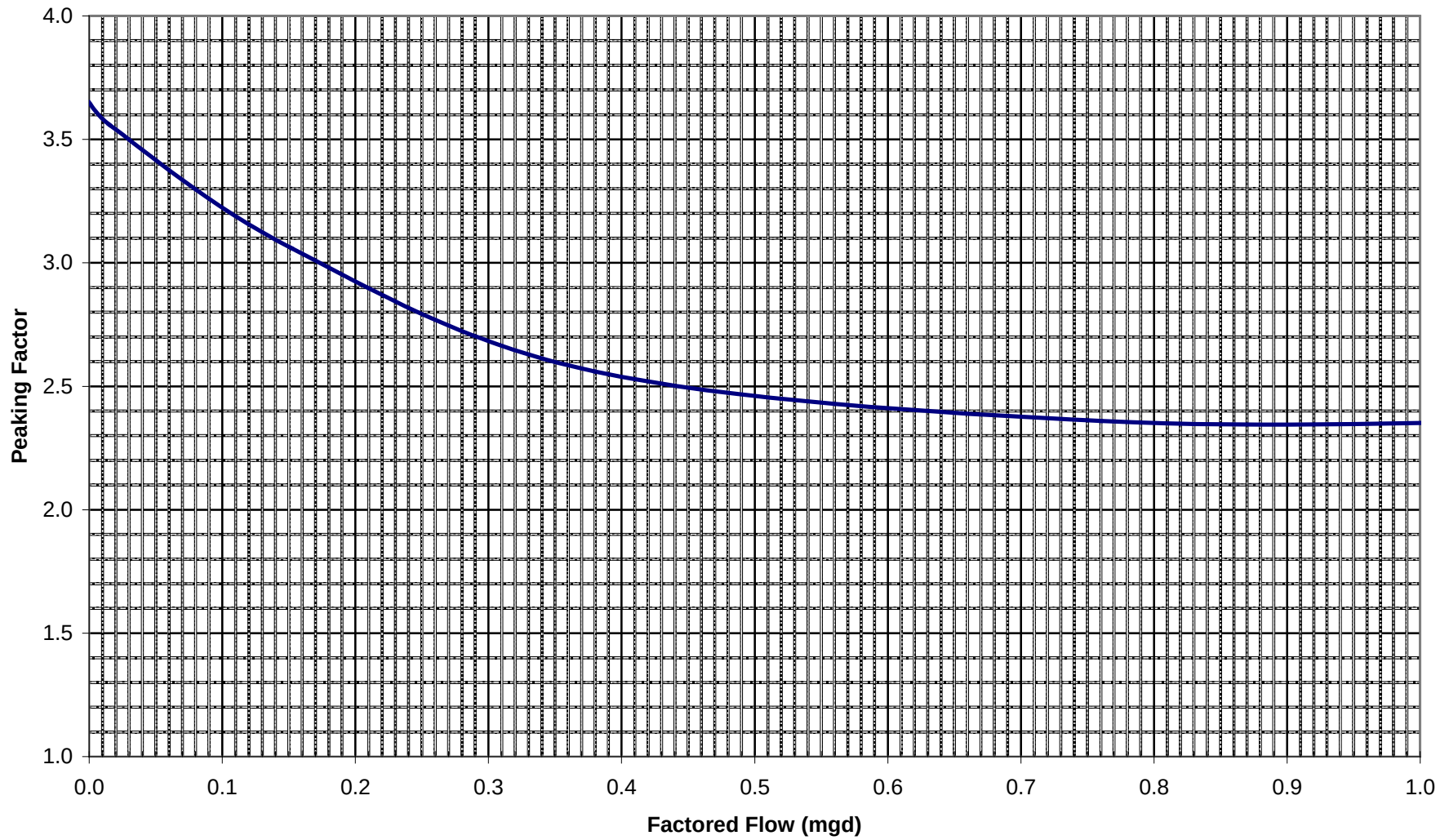
Land Use Designation	Units	Flow Factor (gpd/unit) ¹
Commercial	gpd per acre	850
Heavy Industrial	gpd per acre	850
Light Industrial	gpd per acre	850
Mixed Use	gpd per acre	2,300
Public/Quasi-Public	gpd per acre	660
Schools	gpd per acre	170
Residential 1 DU	gpd per DU	190
Residential 2 DU	gpd per DU	190
Residential 3 DU	gpd per DU	190
Residential Multiple DU ²	gpd per acre Or gpd per DU	2,040 Or 130
Open Space	gpd per acre	0
Parks > 10 Acres	gpd per acre	10
Vacant	gpd per acre	0

¹Includes allowances for dry season groundwater infiltration (GWI)

²Future development projects should use the factor that results in the highest flow.

- 9-3 DESIGN FLOW**– Design flow sizing of infrastructure 15 inches in diameter and smaller shall be calculated by using the average dry weather unit flow factor(s) listed in Table 1 for the upstream service area along with a safety factor of 2.0 and the appropriate peaking factor listed on Figure SS-1. Attachment A located at the end of this section provides a sample calculation. For sizing trunk sewers 18 inches in diameter and larger, utilize the hydraulic model of the collection and conveyance system and consult with Environmental Utilities Department staff.

Figure SS-1
Peaking Factor Curve



9-4 PIPE CAPACITY, SLOPE, VELOCITY, SIZE, DEPTH AND MATERIAL – Design criteria for the pipe system are as follows:

A. Main Sizes – The minimum size sewer main within a residential development shall be 6 inches in diameter. The minimum size sewer main for commercial and industrial developments shall be 8 inches in diameter.

B. Slope and Velocity – Manning's formula shall be used to determine the relation of slope, design flow, velocity, diameter, and "n" value. The "n" value shall not be less than 0.013 for all pipe materials.

1. Table 2 provides minimum slopes and design flow capacities for various pipe diameters. Pipe slopes less than those listed in this table shall not be used without the approval of the Environmental Utilities Director. The slopes indicated are based on a velocity of two feet per second with the pipe flowing full.

Table 2 – Minimum Slopes and Flow Capacities

PIPE DIAMETER (IN)	SLOPE (ft/ft)	CAPACITY AT 0.7 DEPTH	CAPACITY FLOWING FULL
6	0.0050	0.22 MGD	
8	0.0035	0.38 MGD	
10	0.0025	0.58 MGD	
12	0.0020	0.85 MGD	1.00 MGD
15	0.0015	1.32 MGD	1.60 MGD
18	0.0012	1.95 MGD	2.35 MGD

2. The maximum depth of flow at design conditions in any lateral 10 inches in diameter or less shall be 70 percent of pipe diameter. Lines 12 inches in diameter or larger may be designed to flow full unless direct sewer connections are planned, in which case the 70 percent pipe diameter maximum depth of flow shall govern.
3. All sanitary sewer pipe shall be designed for a minimum scour velocity of 2 feet per second at peak flows. The volume of wastewater within the pipe system as determined above shall be used when designing pipe slopes.
4. Maximum design velocity shall not exceed 10 feet per second.

- C. Capacity** – Pipe capacity, in all cases, shall be adequate to carry the Peak Wet Weather Flow (PWWF) from the entire tributary shed area even though said area may not be within the project boundaries.
- D. Hydraulic Grade Line** – The hydraulic grade line shall be determined from the design flows, based upon 100 percent development of the tributary area. Hydraulic grade line calculations must be submitted for the design of all lines 12 inches in diameter or larger.
- E. Depth** – Sewer mains with service lateral shall not exceed a depth of 15 feet. The system shall be designed to provide a minimum slope for sewer services of $\frac{1}{4}$ inch per foot with a minimum cover of 12 inches at any buildable location within the properties to be served. Proposed building pad elevations shall be a minimum six inches above the lowest upstream manhole rim. Where the building pad does not meet the elevation requirement, a backwater valve for the building shall be required. The backwater valve shall be noted on the improvement plans and building plans. Installation shall be made during construction of the underground improvements. Deed restrictions shall be put in place which hold the City harmless for failure of the backwater valves on such lots.

9-5 SEWER LOCATION AND ALIGNMENT REQUIREMENTS –
Location and alignment criteria are as follows:

- A. General** – All sanitary sewers shall be placed in rights-of-way dedicated for public streets or within easements approved by the Environmental Utilities Director. Developments with deep sewer mains or with truck mains may require dual sewer mains. There shall be a minimum horizontal clearance of 10 feet between parallel water, recycled water, and sanitary sewer mains. A minimum horizontal clearance of 5 feet shall be maintained between sewer mains, parallel storm drains, and other utilities. On crossings, water and recycled water lines shall be a minimum of 12 inches above the sewer line. If a sanitary sewer force main must cross a water or recycled water line, refer to sections 8 (Domestic Water Supply System) and 14 (Recycled Water Supply System) of these standards.
- B. Location in New Subdivisions** – In new subdivisions, sewers shall be located 5 feet south or east of street centerlines within minor and primary residential streets, or as approved by the Environmental Utilities Director.
- C. Location in Existing Streets** – When sanitary sewers are to be installed in an existing street, factors such as curbs, gutters, sidewalks, traffic conditions, traffic lane conditions, pavement conditions, future street improvement plans, and existing utilities shall be considered. The

approval of the Environmental Utilities Director and City Engineer shall be obtained in every instance.

D. Location in Unpaved Area – All mains in unpaved areas shall be marked every 133 feet maximum between manholes with a green 5-foot 6-inch composite utility marker. A decal shall be placed on marker stating “CAUTION SEWER PIPE.” Utility marker shall be Carsonite or approved equal with anchor barb kit.

E. Easement Sewer Lines – Easement sewer lines outside of the public right-of-way, or within a narrow right- of-way shall require an easement dedication to the City. Sewer lines shall be centered within their easement. Easements shall be completely on one side of the property line of fence. The easement shall be clear of permanent structures, building eaves, roof lines, and the future trunk of large tree species. Temporary construction easements of adequate size shall also be provided. The proposed easement shall be the greater of the following:

1. Minimum width of easement shall be 15 feet.
2. All easements shall have a minimum width equal to the required trench width according to the standard detail for trench backfill, plus 2 additional feet for every 1 foot of depth of the pipe as measured from the bottom of the pipe to finished grade. All sewer lines shall be centered within their easement.
3. No trees or permanent structures are allowed within the sewer easement except with the approval of the Environmental Utilities Director.

F. Public Lines in Commercial Developments – Sewer mains shall be located within drive aisles unless otherwise approved by the Environmental Utilities Director.

G. Water Well Clearance – Sewer lines shall maintain a minimum 100-foot separation from all public or private wells. (Properly abandoned wells are not included.) If a clearance of less than 100 feet is approved, the pipe material shall be approved by the Environmental Utilities Director. In no case shall the clearance be less than 50 feet.

H. Lines in Drainage Swales – Sewer lines, public or private, shall not be located within a drainage swale. The horizontal distance between the sewer line and the top of the bank shall be sufficient to maintain the integrity of the drainage swale and provide access for maintenance to the sewer line.

I. Alignment – Sewer lines and structures shall be designed to provide a minimum 12-inch vertical clearance from all utilities and/or

improvements, unless otherwise approved by the Environmental Utilities Director.

1. Horizontal alignment shall be parallel to the street centerline. Minimum radius for sanitary sewers 6 inches through 12 inches in diameter shall be 200 feet. For pipe 27 inches in diameter or larger, mitered joints, fittings, or other methods as specified in the Standard Construction Specifications may be utilized to accomplish alignment changes.
2. Vertical alignment shall provide a constant slope between manholes. If a change in grade is necessary, construction of a manhole shall be required unless the use of a vertical curve is approved by the Environmental Utilities Director. In such case, elevations shall be shown at 10-foot intervals throughout the length of the vertical curve. The maximum deflection permitted shall be two percent for each 10-foot interval.

J. Sewer Main Stub – Sewer main stubs for future development which are perpendicular to the sewer main shall be ductile iron pipe originating from the manhole. The stub shall be within 150 feet of the manhole and terminate 5 feet into the future development. Green Carsonite marker shall be installed at the end of the stub.

9-6 TRENCH LOADING CONDITIONS AND PIPE DESIGN – The loading condition and pipe design criteria for conduits are as follows:

- A. Rigid Conduit Loading** – On rigid conduits, Marston's formula shall be used to determine the load placed on the pipe by backfill. The procedure for rigid pipe is described in the ASCE Manual and Report of Engineering Practice No. 60, the Clay Pipe Engineering Manual, and in similar handbooks. In the absence of specific soils data, as determined by the soils engineer, a soil weight of 120 p.c.f. and a Ku factor of 0.110 shall be used. Minimum strength requirements for vetrified clay pipe shall be shall be as specified per ASTM C-700 "extra strength" VCP.
- B. Safety Factor** – On rigid conduits, a safety factor of 1.5 shall be used for all pipe. The three edge bearing strength of the pipe shall be used in the computation for rigid pipe.
- C. Bedding and Initial Backfill** – Unless otherwise noted on the plans, bedding and initial backfill shall be per the Construction Standards. Special backfill requirements shall be noted on the plans.
- D. Special Pipe Strength Requirements** – For sewer mains greater than 20 feet deep or mains requiring extra support strength, pipe material shall be approved by the Environmental Utilities Director. Ductile iron pipe shall be used if cover is less that three feet or insufficient clearance exists between the sewer pipe and the rigid load

transmitting structures. Such structures include large diameter storm drains and other structures subject to settlement. The ductile iron pipe shall extend 5 feet each side of the structure crossing.

9-7 MANHOLE CRITERIA - The design criteria for manholes are as follows:

- A. General** – Manholes shall be placed at the intersection of all sanitary sewer lines, at the upstream end of a pipe run, and at the end of any temporary line more than 200 feet in length. No more than three lines may enter a manhole with one line exiting. Medium-density single-family subdivisions may enter a manhole with up to 4 services with one exiting main line upon approval of the Environmental Utilities Director. Summit manholes are not permitted.
- B. Spacing** – Maximum spacing of manholes shall be 500 feet for all straight lines of 10 inches in diameter or less. Manhole spacing for mains 12 inches and larger shall be considered on a case by case basis. A line with a radius greater than 400 feet shall be considered as straight for purposes of this section. Manhole spacing on curved lines of 200-foot radius (minimum allowable) shall be 200 feet. Manhole spacing on curved lines of radii between 200 and 400 feet, or where only a portion of the line is curved, shall be adjusted proportionately. Reverse curves require a manhole at the point of tangency of the curves or as determined by the Environmental Utilities Director. A manhole shall be required at any change in vertical alignment unless use of a vertical curve is approved by the Environmental Utilities Director.
- C. Invert Elevations** – The invert elevation for pipe of the same diameter entering a manhole shall have a 0.10-foot drop between the entering and exiting pipe. Under special circumstances, the 0.10-foot drop may be waived with the approval of the Environmental Utilities Director. Invert elevations for pipe of different diameters shall match crown of exiting pipe. The crown of the entering pipe shall be at the same elevation or higher than the exit pipe. Mains with 10 or fewer services shall enter manholes at an invert to crown match with the exit pipe. Lateral mains entering trunk mains, as defined by the Environmental Utilities Director, shall enter manholes at an invert to crown match with the exit pipe.
- D. Manhole Sizing** – A standard 48 inch manhole with a 24 inch access opening shall be used for sewer mains 12 inches and smaller, and not exceeding 20 feet depth. A 60 inch manhole with a 36 inch opening shall be used for sewer trunk mains 15 inches to 36 inches in diameter. The design of larger trunk mains shall be approved on a case-by-case basis.
- E. Manhole Coatings** – Manholes coatings shall be required in areas determined to have a potential of generating excessive sulfide gases. Such manholes shall include, but are not limited to, all manholes on trunk mains 15" in diameter or larger, the first manhole originating from

a sewer trunk main 15 inches in diameter or larger, force main transition manholes, manholes designed with inside drops, or as determined by the Environmental Utilities Director.

F. Manhole Access – Provisions must be made to prevent vegetation from overgrowing the manholes. An all weather 10-ton vehicular access shall be provided to each manhole as required by the Environmental Utilities Department. Turning radii of 30 feet inside and 45 feet outside, and a vertical clearance of 14 feet are required.

G. Connection to City Mains – Improvement plans which require a connection to an existing City of Roseville sewer main or structure shall specify that such connection be performed by City forces on a time and materials basis.

9-8 DROP CONNECTION CRITERIA – Drop connections shall be permitted under special conditions and with the approval of the Environmental Utilities Director. There shall be no more that two inside drop connections into a 4-foot diameter manhole. If an elevation difference of at least 3 feet is not available, the slope of the incoming line shall be increased to eliminate the need for the drop.

9-9 MAINLINE AND DIP TRANSITIONS – Mainline transitions shall be made at a sewer manhole. Transitions for services may be made at a manhole or with the use of a specially fitted DIP piece with a VCP “speed seal” spigot. Arrangements for the special spigot shall be coordinated with the Environmental Utilities Department.

9-10 SEWER SERVICE DESIGN – The design criteria for sewer services are as follows:

A. General – Services shall be designed and constructed perpendicular to the main or as approved by the Environmental Utilities Director. The service shall extend from the main to the edge of the public right-of-way or easement. The cleanout shall be constructed per the Construction Standards. Services shall extend two feet beyond edge of pavement of private roads. Easements of adequate width to accommodate the service shall be obtained. A plan and profile of services shall be supplied to the Environmental Utilities Director on request.

1. Cleanouts shall be designed and constructed to grade with subdivision improvements or at the time connection is made to the building sewer. Unless otherwise noted on the plans, construction of the cleanout to grade is the responsibility of the contractor for the subdivision improvements. If installation of the cleanout is deferred, the plans shall call for the placement of a 4-inch by 4-inch post at the end of the service sewer extending from the flow line to not less than 12 inches above ground surface.

B. Sizing – The minimum size service for single-family developments shall be 4 inches in diameter. Services greater than 100 feet in length shall be 6 inches in diameter. Schools, commercial, industrial and multiple residential properties shall be served by a minimum 6-inch diameter service.

- 1. Connection to Sewer Mains** – Residential services shall connect to the sewer main by means of a factory fitting. Properties with services located at the end of cul-de-sacs shall enter a manhole. A 6-inch service shall enter a 6-inch main by means of a manhole. A 6-inch service entering an 8-inch or larger main must either be connected with a manhole or by means of a factory fitting with a manhole placed at the property line. Services 8 inches in diameter and larger shall be connected to the main by use of a manhole. Connection to trunk mains shall be approved by the Environmental Utilities Director. In no case shall a service connection be made with the use of a tee.
- 2. Connection to Existing Sewer Mains** - The Environmental Utilities Department reserves the right to make all sewer service taps onto existing mains upon completing an application for a permit and payment of the required connection fees. Proposed work by the City shall be performed by City forces and payment made to the City for such work will be on a time and materials basis. A note to this effect shall be placed on the plan sheet which shows a detail for the area that requires such tapping. The application shall be made to the Environmental Utilities Department. Connection fees shall be paid prior to submittal of the application. All excavation, backfill, and the installation of the remainder of the sewer service or stub shall be performed by the Contractor.
- 3. Connection Limitations** – Sewer services shall connect to 12-inch diameter and larger pipe or to lines more than 15-feet in depth at a manhole. Direct connection to trunk mains shall only be with the approval of the Environmental Utilities Director.
- 4. Material** – The service shall be of the same material as the lateral to which it connects or as specified by these standards.
- 5. Location** - A sewer service shall be constructed to each lot. In new subdivisions or developed areas, unless specifically requested otherwise in writing, sewer services shall be placed on the low side of a typical subdivision lot or similar parcel with 2 percent or greater slope across the front, or shall be placed in the center of lots of lesser slope. Trees, improvements, etc., are to maintain a minimum of 5' from the sewer service, including the cleanout and where the sewer service is extended to service the house.

If the property is located such that service is available both to a line located in an easement and also in a right-of-way, service shall be at the latter location unless otherwise approved by the Environmental Utilities Director. No sewer service shall be located such that future on-site construction will result in the line being in such proximity to a water well or water main or service that applicable health standards will be violated.

C. Depth – Adequate depth of sewer service at the edge of easement or right-of-way to service the intended parcel shall be verified. A depth of 3 to 4 feet to crown of pipe, measured from existing ground surface or edge of adjacent roadway, whichever is lower, shall be considered the standard for service sewer depth, except where the water main is to be installed at back of sidewalk as part of the subdivision improvements. In such cases, service shall have a minimum depth of cover of 4-feet 6-inches at the property line and the service shall be extended to a minimum of 7 feet back of sidewalk with the cleanout to grade remaining within 2 feet of back of sidewalk. When greater depth is required, the invert elevation of the service sewer at the edge of the right-of-way or easement shall be noted on the improvement plans. If a joint trench is being utilized for other utilities, the plans shall indicate that a joint trench will exist and service elevations shall be adjusted accordingly. Sewer service connection to the main shall not exceed 15 feet.

D. Special Requirements in Developed Areas – In developed areas, a sewer service shall be provided to each parcel participating in the project which contains a source of sewage less than 200 feet from a lateral. A property owner's request for service location shall be honored whenever practical. Parcels which have two or more sources of sewage must have an independent sewer service provided for each sewage source which can be separated from the rest of the parcel and sold. A service shall be provided to each lot. During the design period, each property owner affected by the proposed work shall be contacted in writing to determine the preferred sewer service location. In absence of a response, a sewer service shall be provided in accordance with these standards. In addition, upon staking the location of the proposed sewer services prior to construction, each property owner shall be given a final opportunity to approve the proposed sewer service location. Compilation of this information shall be furnished to the Environmental Utilities Director.

E. Warranty Inspection of Sewer Main Stubs – As a requirement, sewer stubs are provided to subdivisions as a courtesy by developers during the construction of backbone infrastructures in streets to prevent cutting up the newly paved streets when the subdivisions are ready to develop. These stubs become an integral part of the sewer system of the subdivisions and subsequently the responsibility of the developers of the subdivisions and are therefore imperiled to both **construction and warranty inspections**. This practice saves future developers

construction time and cost that would have otherwise been spent on tie-ins and street repairs and in some instances prevents delays in the event a street has a moratorium. Since these stubs are provided at no cost to future developers, it is our position, hence our policy, that it is the responsibility of contractors to test and repair these stubs, if found damage, prior to tie-ins. A note to this effect shall be placed on the improvement plans.

F. Abandoning Existing Sewer Stubs – Existing sewer stubs to be abandoned shall be abandoned per Section 91 of the Construction Standards.

G. Grease Interceptor – A grease interceptor shall be required for any business having the potential of producing grease as specified in the Roseville Municipal Code. Minimum size of the interceptor shall be 1000 gallons. Sizing of the interceptor shall be based on the 2007 California Plumbing Code.

1. General Commercial/Retail buildings shall require dedicated grease lines for future use. A location for the future grease interceptor shall be identified on the improvement plans.

H. Oil/Sand Interceptor – An oil/sand interceptor shall be installed for any business having the potential of producing oil and sand waste resulting from routine maintenance as specified in the Roseville Municipal code. Minimum size shall be 450 gallons. Sizing of the interceptor shall be based on the 2007 California Plumbing Code.

I. Automatic Car Wash – An oil/sand interceptor or an approved clarifier shall be installed for an automatic car wash as specified in the Roseville Municipal Code. The car wash shall recycle a minimum of 75% of the water used prior to discharging into the City's sewer system. Minimum size of oil/sand interceptor shall be 450 gallons. Sizing of the oil/sand interceptor shall be based on the 2007 California Plumbing Code

9-11 CREEK CROSSING DESIGN – Advance approval of the Environmental Utilities Director, City Engineer, and other appropriate agencies is necessary to initiate design. The criteria for creek crossings are as follows:

A. General – In all cases, the proposed future creek bed elevation shall be used for design purposes. Crossing details of pipe, piers, anchorage, transition couplings, etc., shall be shown on a detail sheet of the plans. The top of pipe shall have a minimum 3 feet of cover at the shallowest point of the crossing.

B. Construction and Material – For line sizes 10 inches and smaller, ductile iron pipe shall be used under the full creek width plus 10 feet each side. For line sizes 12 inches and larger, pipe used shall be as

determined by the Environmental Utilities Director. The ductile iron pipe shall be supported by steel I-beam piles. The steel I-beam pile shall be installed to a yielding depth as recommended by the soils engineer. Each stick of pipe shall be supported by a least one pile or as approved by the Environmental Utilities Director. A steel plate shall be welded on top of the I-beam. A ½-inch thick polyethylene plane shall be installed on top of the steel plate for the pipe to rest on. The pipe shall be held by two 2-inch wide galvanized steel straps, with galvanized bolts attached through the steel plate and polyethylene plate. An insulating material shall be used between the pipe and the section of strap coming into contact with the pipe. All exposed surfaces shall be coated with coal tar epoxy. A layer of 4-inch to 8-inch cobbles shall be placed and compacted on the top surface of the trench area for the full width of the creek. A trench plug shall be required at the top of the pipe at the downstream side of the crossing. The plug shall be a minimum of 4 feet in length, and shall extend 24 inches beyond the width and depth of the trench.

C. Design – Calculations shall be submitted which clearly indicate the design of the pipe and supports regarding impact, horizontal and vertical forces, overturning, pier and anchorage reactions, etc.

9-12 BORING AND JACKING REQUIREMENTS – The requirements outlined in the Construction Standards shall be followed.

9-13 PUMP STATION AND FORCE MAIN REQUIREMENTS – Every phase of pump station design, including force main design, shall be closely coordinated under the direction of the Environmental Utilities Director. The pump station and force main shall be designed and submitted concurrently. The plan sheets will show the general layout and control system required for a typical acceptable sewage pump station. The plans shall call out the testing required for acceptance of the pump station.

A. Location – The pump station and facilities shall maintain a minimum 100-foot separation from existing and proposed residential and commercial structures. Adequate maintenance access shall be provided to the pump station. The access design shall consider requirements for the removal of pump station equipment.

B. Capacity – The pump station shall be designed to accommodate ultimate buildout flows as well as initial flows. Allowances for larger or additional pumping equipment must be made for future requirements. If the design capacity is in excess of anticipated initial flow, the effects of the minimum flow condition must be estimated to prevent excessive retention of sewage in the wet well, to prevent septic conditions, and to determine whether the pumping equipment will operate within the manufacturer's guidelines. Table 3 provides planning level criteria for sizing and configuration of pump station and force main facilities.

Table 3 – Planning Level Criteria for Pump Stations and Force Mains

Pump Stations	
Capacity	PWWF (hydraulic modeling required for pipes 18 inches and larger)
Storage	4 hours
Operation	Lead/lag for duty pump(s), plus 1 standby pump
Maximum Pump Cycles	6 cycles/hour
Force Mains	
Headloss	Hazen-Williams roughness coefficient (C-factor) of 120
Maximum Velocity	7-10 feet per second
Minimum Velocity	3.0 feet per second

C. Wet Well – The wet well design and detention time shall be such that the deposition of solids is minimized and the sewage does not become septic. Provisions for 4 hour storage capacity shall be provided. An interior protective coating shall be required for the prevention of hydrogen sulfide corrosion of the structure.

D. Pumps – Pumping equipment shall consist of centrifugal pumps. Pump suction and discharge size shall be a minimum of 4 inches in diameter. Pump drive units shall be electric. A sufficient number of pumping units shall be installed such that station capacity can be maintained with any one unit out of service. Provisions for telemetry shall be included in the station control system as directed by the Environmental Utilities Director.

E. Station Pumping - Suction, discharge, and header piping within the station shall be sized to adequately handle flows. Piping less than 4 inches in diameter shall not be used for conveying sewage. Valves shall be located to allow proper equipment maintenance and operation. The design shall provide a bypass configuration back to the wet well.

F. Odor Control – If required, the station shall have equipment and/or space provided for the purpose of introducing odor control chemicals into the wet well, upstream gravity line, and/or force main. Adequate provisions shall be made for the safe handling and storage of chemical containers. The force main shall be designed to maintain a continuous uphill grade, or, as a minimum be level. All force mains shall have provisions for introduction of either air or odor control chemicals.

G. Force Mains – Force mains shall be designed such that velocities normally fall within a range from 3 to 5 feet per second. If initial capacity

of the station is considerably less than ultimate, consideration should be given to the prevention of septic conditions due to extensive detention time within the force main. The feasibility of installing dual force mains to accommodate initial and ultimate flows shall be investigated in such situations. Provisions shall be made introducing a “cleaning pig” into all force mains. The design shall also include facilities to eliminate or sufficiently dampen transient forces and/or surging in the event of an immediate station shutdown. Details shall be included in the improvement plans.

A corrosion protection study shall be included with the improvement plan submittals. Corrosion protection facilities for the force main shall be identified from the roadway with a curb stamp labeled “CP – FM”.

H. S.C.A.D.A. – SCADA requirements for pump stations shall be provided by the Environmental Utilities Department. The submittal shall be included along with the improvement plans for such facilities.

9-14 SEWER IMPROVEMENT PLAN REQUIREMENTS – Plans for the construction of sanitary sewers, whether in conjunction with other improvements or for a sewer project only, shall conform to these standards, the Construction Standards, and meet the following requirements.

A. Sewer Study – A sewer study or sewer master plan as determined by the Environmental Utilities Director may be required prior to review of the sewer design if there is a possibility that upstream or adjacent areas might require service through the subject property. The map shall show the entire area including upstream tributary and adjacent areas, and all other data necessary to determine anticipated sewage flows. The method of providing service to the entire service area, including pipe sizes and slopes, shall be shown to the extent necessary to determine the requirements within the subject property.

B. General Requirements – Plans for sewer improvement projects shall include a layout sheet, plan and profile of each public sewer line, and necessary detail drawings. Reference to the Construction Standards shall be made for all standard details.

C. Layout Sheet – Improvement plans shall include an overall map which shows the project boundaries, sewer lines, manholes, backwater valves, and other important items of the work.

1. A parcel which benefits from and financially participates in a sewer construction project, but is not included within the project boundaries, shall have a note to this effect placed on the layout map and on the plan and profile sheet if the parcel appears thereon. Parcels which make use of those facilities may be subject to additional fees at the time of connection, if the participation has not been so noted.

D. Plan and Profile Sheets – Sewer lines to be owned and maintained by the City of Roseville shall be shown on both plan and profile. The following standards, with respect to drafting and the information to be included on the plan and profile sheets, generally apply to projects in developed areas.

1. Sewer lines to be constructed shall be indicated on profile by parallel lines spaced to show the pipe diameter to scale. Manholes shall also be indicated by parallel lines spaced according to scale. Slope shall be printed 1/8-inch above, and preferably parallel to, the pipe line, or between the parallel lines. The length, size and type of pipe material between each manhole shall be printed parallel to the horizontal grid lines and approximately halfway between the ground surface and pipe line. Pipe inverts, "IN and OUT," at manholes and other structures shall be indicated on the profile. The invert elevations shall be printed parallel to the horizontal grid lines and shall be underscored by a line which then runs at a 45-degree angle to the corresponding pipe invert. Rim elevation for all manholes shall be labeled. The profile shall note all proposed manholes, special connections, and other appurtenances. Existing facilities shown on the profile shall be dashed or distinguishable from proposed improvements. Manhole identification on the plan view may be oblique. Stationing shall appear at the lower edge of the profile grid directly under the manhole. Each manhole shall be assigned a number that will appear in both plan/profile and the cover sheet.
2. Proposed sewer services shall be indicated on the plans by stationing, or an approved reference point such as a property line. The invert elevation of the service at its upstream end shall be shown on the plans whenever the standard depth is inadequate to serve the property. Standard depth shall conform to the conditions set forth in the Construction Standards.
3. Improvements or lots shown on a plan sheet but served to a line shown on another plan sheet shall have the direction of service shown by a small triangle and letter "S." "As Built" plans shall also show the service sewer location measured from the nearest downstream manhole.
4. Both permanent and working easements shall be shown to scale and dimensioned on the plans.
5. Proposed sewer lines shall be adequately dimensioned from street centerline. If the sewer is to be located in an easement, sufficient dimensions and bearings from physical features to locate the line in the field shall be shown on the plans.

6. Existing gas, water, storm drains, and all other utility lines above or below ground shall be shown on the plans.
7. Trees and other objects within 10 feet of the construction centerline shall be dimensioned on the plans relative to the construction centerline. The diameter of tree trunks and interfering heavy tree branches shall be noted. Removal of a tree or object, or other special handling shall be noted. Written documentation of any special arrangements regarding preservation of property shall be provided to the Environmental Utilities Director if no easement document is involved. If an easement is negotiated, all special arrangements shall be included in the easement document. Tree removal must be approved by the Planning Department.
8. Culverts shall be shown on both plan and profile when crossed by the construction or when parallel and within 20 feet of the construction line. Type, size, and invert elevations shall be called out.
9. No trees or permanent structures shall be placed within sewer easements without the approval of the Environmental Utilities Director.

E. Detail Drawings – Details not covered by the Construction Standard Detail sheets shall be shown on the plans.

F. Connection To Existing Facilities Where Bypassing Or Stoppage of Existing Flow Will Be Required – Upon approval of the application to connect to an existing sewer main by the Environmental Utilities Department, a coordination meeting to discuss the work plan shall be organized by the contractor a minimum of seven days prior to the proposed connection or as permitted by the City's work schedule. Should the Environmental Utilities Director determine that such work be performed by City forces, the work shall be performed on a time and material basis.

9-15 MULTI-PARCEL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS – “On-site” sewer mains for new commercial and industrial developments containing more than one parcel, shall be designed in accordance with the requirements contained in these standards or as approved by the Environmental Utilities Director. The sewer main shall be installed within a dedicated public sewer easement in accordance with these standards. Each separate parcel within a multi-parcel commercial or industrial development shall have a separate connection to the public sewer line(s).

9-16 RECROD (AS-BUILT) PLANS –The Contractor/Developer shall keep an accurate record of all approved deviations from plans and shall provide a PDF electronic, full size bond and 11 x 17 copy of the as-built plans prior to final acceptance of the completes improvements. Each sheet of the plans

shall be marked "AS-BUILT" or "RECORD DRAWING". "AS-BUILT" or "RECORD DRAWING" of signal plans, water, sewer and storm drain composite in plan view only, and parcel and final maps shall also be submitted on computer disk in DXF or DWG format.

ATTACHMENT A:
Example Design Flow Analysis for Sewers 15 Inches and Smaller

Example calculation for application of safety factor and peaking factor curve for 400-unit single family subdivisions:

ADWF^a:

$$(400 \text{ DUs}) * (190 \text{ gpd/DU}) = 76,000 \text{ gpd} = \text{ADWF}$$

Factored Flow:

$$(\text{ADWF}) * (2.0) = (76,000 \text{ gpd}) * (2.0) = 152,000 \text{ gpd} = \text{Factored Flow}$$

PWWF:

$$(\text{Factored flow}) * (3.05^b) = (152,000) * (3.05) = 464,000 \text{ gpd} = \text{PWWF}$$

Size sewer for this flow based on Section 9-4.

For example, per City of Roseville Improvement Standards, Section 9-4, a 10-inch sewer line at minimum slope is adequate for this PWWF.

^a Based on ADWF unit flow factors shown in Table 1

^b From Figure SS-1

SECTION 10

DRAINAGE

- 10-1 GENERAL** – This Section is formulated to clearly define acceptable drainage analysis and design criteria for development in the City of Roseville. Drainage facets not covered in this Section shall conform to the Placer County Flood Control and Water Conservation District “Stormwater Management Manual” (SWMM), latest edition, and good engineering practice.

The City of Roseville has adopted stormwater quality design standards to reduce water pollution generated by urban runoff. These design standards are detailed in the Stormwater Quality Design Manual for the Sacramento and South Placer Regions. This Manual is available on-line at the Sacramento Stormwater Management Partnership website, www.roseville.ca.us/civica/filebank/blobdload.asp?BlobID=19385. The Manual can also be purchased at the City’s Permit Center located on the first floor of the Civic Center Building at 311 Vernon Street downtown Roseville.

- 10-2 CITY POLICIES AND REQUIREMENTS** – All residential lots shall have minimum pad elevations of one foot above the 100 year water surface elevation and all commercial sites shall have minimum finished floor elevations of one foot above the 100 year surface elevation assuming failure of the drainage system. This requires the Consulting Engineer to provide an overland release for all projects or provide storage for the 100-year storm frequency.

The overland release path shall be constructed in a manner to transport the peak rate runoff from the 100-year storm frequency through the site assuming all storm drains are inoperative, all upstream areas are fully developed, and that antecedent rainfall has saturated the tributary watershed. Streets, parking lots, playgrounds, pedestrian areas, pedestrian walkways, utility easements, and other open space areas may be considered compatible uses within the overland release path.

Except for single family or duplex residential lots, site drainage shall be collected on-site and conveyed via an underground storm drain system to approved existing storm drainage system without flowing into existing street gutters or existing roadside ditches.

Unless regional storm water mitigation devices are available specific mitigation shall be required for the project, shall be located on-site, and shall be maintained by the landowner.

- 10-3 DEVELOPMENT IN OR ADJACENT TO A REGULATORY FLOODPLAIN** – The City’s Regulatory Floodplain boundaries are defined

in the City's General Plan – Safety Element. They are not the same as the flood hazard area shown on FEMA's Flood Insurance Rate Map (FIRM). For the most part the Regulatory Floodplain is the land inundated by the 100-year flood event, assuming build-out of the drainage basin, with a total drainage area of greater than 300 acres. Precise boundaries shall be as approved by the Public Works Director.

Residential lots developed in or adjacent to the City's Regulatory Floodplain shall have pad elevations a minimum of two feet above the City's 100-year flood elevation. A Letter Of Map Amendment (LOMA) or a Letter Of Map Revision (LOMR) is required for any residential lot in or adjacent to the flood hazard area as shown on a Flood Insurance Rate Map. Non-residential projects shall have finished floor elevations a minimum of two feet the City's 100-year flood elevation. Elevations Certificates are required for such non-residential structures. In areas where the 100-year flood depths are less than eight feet, the above freeboard requirements will be increased to a minimum of three feet.

In the case of no-grade or contour grade lots, located adjacent to the City's Regulatory Floodplain, and where a portion of the lot may become inundated with the 100-year storm event, a standard Guarantee letter shall be submitting to the Engineering Division prior to plan approval, or issuance of a building permit. The Guarantee letter shall be submitted by a Registered Civil Engineer or Land Surveyor licensed in the State of California and confirm that the lowest ground elevation adjacent to the building foundation meets the minimum requirements for pad elevations as described above.

If a tentative project is submitted which shows fill or other significant improvements within the Regulatory Floodplain, a hydraulic study shall be required to determine the effect of the encroachment. Encroachment shall not result in any off-site increase in water surface elevation. The Consulting Engineer should contact the City of Roseville's Floodplain Management Division to ascertain what existing studies, if available, should be used as a base model for the proposed development. The Consulting Engineer is responsible for assembling the necessary data and presenting the study to the City for review. The study should reflect ultimate build-out conditions of the watershed. When submitting plans that show improvements in the floodplain, the Consulting Engineer must submit a "Compliance Statement", stating that the proposed improvements shown on the plans are accurately reflected in the approved hydraulic study. A sample of the "Compliance Statement", the hydraulic study submittal requirements, and sample Hydraulic Study Worksheets are provided in the attachments at the end of this section.

Parking lots and storage areas shall be no more than 1.5 feet below the 100-year water surface elevation.

When developing property inundated by the City's Regulatory Floodplain, the portion of property that extends into the floodplain shall be dedicated to the City in fee or as a Flood Water Conservation Easement as determined by the Engineering Division. In areas where the floodplain has been dedicated as part of a Specific Plan but the 100-year flood levels are shown to extend slightly outside this dedicated floodplain area, the development shall fill the property located outside the dedicated floodplain to an elevation that is a minimum of two feet higher than the 100-year flood elevation, or incorporate that area into the floodplain.

All development in the City's Regulatory Floodplain shall comply with the regulations of the City's Flood Damage Prevention Ordinance and the City's General Plan.

NOTE: Design requirements for bike paths within the floodplains are provided in the section entitled "Bikeways" of these Design Standards.

- 10-4 FEDERAL FLOOD PROGRAM** – The City of Roseville is a participant in the National Flood Insurance Program (NFIP) and all development in the City shall comply with the regulations of the Federal Emergency Management Agency (FEMA) and the City's Flood Damage Prevention Ordinance.

Amendments of the FEMA flood maps will be required of all new developments located in a FEMA flood zone. Petitions for Letter of Map Amendment, including any fee required by FEMA, shall be submitted to the Public Works Department prior to approval of the improvement or site plans. For further information regarding these requirements, contact the City of Roseville's Floodplain Management Section.

- 10-5 DRAINAGE DIVERSIONS** – The diversion of natural drainage is allowable only within the limits of the proposed improvement. All drainage must enter and leave the improved area at its original horizontal and vertical alignment unless an agreement, approved by the City Attorney, has been executed with the affected property owners. Temporary drainage diversions during construction shall be approved by the City Engineer and shall be located and constructed in such a fashion as to permit their removal when necessary for the prevention of damage to adjoining properties.

- 10-6 DRAINAGE EASEMENTS** – Publicly owned drainage conduits and channels will not be allowed on private property unless they lie within a dedicated public drainage easement. Where minor improvement of an existing channel falls on adjacent property (such as day lighting a ditch profile) a notarized right-of-entry from the property owner(s) for such construction shall be required. A copy of the document, which grants such

approval, shall be submitted to the City Engineer prior to the approval of the improvement plans.

- A.** Easements for closed conduits shall meet the following width criteria:
 - 1.** All easements for closed conduits shall have a minimum width in feet equal to the required trench width according to the standard detail for unshored trenches and excavation backfill plus two (2') additional feet of width for every foot of depth as measured from the bottom of the pipe to finish grade. All conduits shall be centered within their easements.
 - 2.** Minimum width of any easement for closed conduit shall be 15 feet.
 - 3.** Easements adjacent to property lines shall be located entirely on one parcel.
- B.** Drainage easements for open channels shall have significant width to accommodate the following criteria:
 - 1.** Contain the channel and channel slopes.
 - 2.** Provide for fencing, where required.
 - 3.** A 15-foot wide service road and maintenance access ramps. A service road may not be required where the channel bottom is lined and a suitable access ramp is provided. Dedication of easements shall be completed and submitted to the City Engineer with copies of deeds or title reports for the affected properties before improvement plans will be approved.
- C.** Open channels (natural or man-made) with a drainage area that exceeds 300 acres shall have the 100-year water surface elevation limits dedicated to the City in-fee or as Flood Water Conservation Easement.

10-7 DRAINAGE CAPACITY/DESIGN - All drainage systems shall be designed to accommodate the ultimate development of the entire upstream watershed. The 10-year peak storm discharge shall be used in the design of local drainage systems. In addition, other facilities such as streets, bridges, open channels, and buildings have requirements that relate to the 25 and 100-year peak storm discharge. The Consulting Engineer shall calculate the 10, 25, & 100-year peak discharge and submit these calculations along with the plans for all proposed drainage systems.

10-8 DESIGN PEAK DISCHARGE METHODS – The acceptable methods for the determination of runoff quantities for the 10, 25, & 100-year peak discharge are specified in the most recent edition of the Placer County Flood

Control and Water Conservation District's (PCFCD) "Stormwater Management Manual" (SWMM). The SWMM allows for the "Unit Peak Discharge" method which is based on the relationship between the characteristic watershed response time and peak flow per unit area from precipitation patterns typical for the region, and provides a rapid evaluation of the peak flow rate from small watersheds (less than 200 acres). This method is presented in this section.

The SWMM also allows a HEC (Hydraulic Engineering Center) hydraulic analysis for watersheds larger than 200 acres. The HEC analysis must conform to the requirements of the most recent edition of the SWMM. All HEC analysis shall have the City's "HEC Hydraulic Study" Worksheet completed and included with the study. Sample worksheets and submittal requirements are provided at the end of this section.

Unit Peak Discharge Method

- A. Criteria** – Peak flow is a product of watershed area and peak discharge per unit area, which, in turn, is a function of a completed response time.

$$Q_p = qA \quad [\text{Equation 10-1}]$$

Where: Q_p = peak discharge (cfs)
 q = unit peak discharge (cfs/acre)
 A = area (acres)

- B. Response Time** – Response time (t_r) an indication of the response time of the watershed to intense precipitation. It is determined as the sum of separate response times for a path consisting of the initial, overland sheet flow and succeeding collector flows from the most hydraulic remote location in the watershed to the watershed outlet.

- 1. Overland Flow** – Overland flow includes flow over planar surfaces such as roofs, streets, lawns, parking lots and fields. The overland flow length is not always well defined in natural areas, but usually becomes concentrated in shallow rivulets or swales within no more than 300 feet. In areas with development, the point at which the overland flow is concentrated in a collector, such as a gutter or pipe, is usually identifiable. Acceptable overland flow response times for various land uses are as follows. These times should be reduced to $0.90 * t_{ro}$ in 25 year events and 0.70 in a 100 year events.

OVERLAND RESPONSE TIME: Table 10-1

LAND USE	OVERLAND RESPONSE TIME
Low Density Residential	15 minutes maximum
Medium or High Density Residential	10 minutes maximum
Commercial / Industrial	10 minutes maximum

Equation 10-2 is used to estimate the overland flow component of response time.

$$t_{ro} = \frac{.355(nL)^{0.6}}{s^{0.3}} \text{ [Equation 10-2]}$$

Where: t_{ro} = overland response time (minutes)
 n = Manning's roughness coefficient (Table 10-2)
 L = flow length (feet)
 s = slope of surface (feet/feet)

MANNING'S ROUGHNESS COEFFICIENT: Table 10-2

SURFACE	n
Smooth surfaces (concrete, asphalt, or bare soil)	.11
Grass: Short Grass Prairie	0.15
Dense Grasses	0.24
Bermuda Grass	0.40
Poor grass cover on moderately rough surface	0.40
Woods with underbrush	0.40 – 0.80

- Collector Flow – Manning's equation shall be used for estimating collector response time (t_{rc}). The velocity computed for open channel flows using Manning's equation shall be increased by an adjustment factor as follows to account for celerity:

CELERITY FACTOR: Table 10-3

CHANNEL SECTION	CELERITY FACTOR
Triangular	1.33
Wide Rectangular	1.67

In natural watersheds, it may be appropriate to use higher values of Manning's "n" for the initial collector where the flow is shallow.

C. Unit Peak Discharge – Unit peak discharge is computed from the response time, t_r and equation 10-3 as follows:

Where: $qu = C_0 t_r^{C_1}$ [Equation 10-3]
 qu = peak unadjusted unit discharge (cfs/acre)
 $t_r = t_{r0} + t_{rc}$ = response time (minutes)
 C_0, C_1 = coefficient from Table 10-4

COEFFICIENT FOR UNIT PEAK DISCHARGE: Table 10-4

Return Period (Yrs)	$t_r < 20$ minutes		$t_r > 20$ minutes	
	C_0	C_1	C_0	C_1
10	5.80	-0.50	17.80	-0.87
25	7.54	-0.50	23.14	-0.87
100	9.28	-0.50	28.48	-0.87

D. Infiltration Factor – The effect of infiltration is reflected in the infiltration factor F_i . F_i is found from the infiltration rate and Equation 10-4 as follows:

$$F_i = 1.7I \text{ [Equation 10-4]}$$

Where: F_i = infiltration factor (cfs/acre)
 I = infiltration rate (inches/hour, Table 10-5)

INFILTRATION RATES FOR URBAN COVERS: Table 10-5

COVER TYPE	QUALITY OF COVER	SOIL GROUP			
		A	B	C	D
Residential or Commercial Landscaping	Good	.48	.25	.16	.12
Open Space	Poor	.26	.09	.06	.04
	Fair	.31	.16	.09	.07
	Good	.41	.22	.12	.09
Streets and Roads: Paved with open ditches Gravel, Dirt	Poor	.07	.06	.03	.02
	Fair	.11	.06	.04	.03
	Good	.14	.08	.05	.04

Most soils within the City of Roseville are of Soil Group D. If the Consulting Engineer feels that the soil group in the area of development is of a different group, he must supply additional information to substantiate his assumption.

Soil Groups – The Soil Conservation Service (SCS) classifies soil into four hydrologic soils groups. Soils maps and soil surveys of the City are available for inspection at the Placer County Resource Conservation District and the Flood Control District.

Group A – Low runoff potential. Soils having high infiltration rates even when thoroughly wetted and consisting chiefly of deep, well to excessively drained sands or gravels. These soils have a high rate of water transmission.

Group B – Soils having moderate infiltration rates when thoroughly wetted and consisting chiefly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission.

Group C – 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. These soils have a slow rate of water transmission.

Group D – High runoff potential. Soils having very slow infiltration rates when thoroughly wetted and consisting chiefly of clay soils with high swelling potential, soils with a permanent high water table, soils with a clay pan or clay layer at or near the surface, and shallow soils over nearly impervious material. These soils have a very slow rate of water transmission.

E. Connecting Separately Connected Areas - When both pervious and connected, impervious overland flow areas are present, the estimate of combined flow is computed as a weighted adjustment to the peak unit runoff as follows in Equation 10-5:

$$Q_p = A(qu - pF_i) \text{ [Equation 10-5]}$$

Where: Q_p = peak flow(cfs)
 A = total watershed area (acres)
 qu = unit peak unadjusted runoff (cfs/acre)
 F_i = infiltration factor (cfs/acre)
 P = percent of pervious area (%)

F. Procedure – The following procedures shall be used in determination of design runoff:

- a. Determine the typical pervious and connected impervious flow paths with the longest response time.
- b. Determine the total response time for the shed being analyzed combining the overland flow elements and their common collector.
- c. Determine unit peak unadjusted runoff (qu) for the shed area using Equation 10-3.
- d. Determine the pervious infiltration factor using Equation 10-4.
- e. Complete the total peak flow using Equation 10-5.

EXAMPLE OF UNIT PEAK DISCHARGE METHOD

For this example, the following assumptions were made:

- A. Lots have constant slope of one percent.
- B. Lots have a Bermuda grass ground cover.
- C. Average elevation of subdivision is 200 feet.
- D. Class D soils.
- E. Area = 65% impervious, 35% pervious.

See Figure 10-1 for a typical lot detail. A sample computation sheet is provided the end of this Section.

Step 1 Determine overland response time t_{ro} as follows: $t_{ro} = \frac{.355(nL)^{0.6}}{S^{0.3}}$

Overland flow length = 160'
Bermuda grass cover, $n = 0.24$
Slope = 1%

Equation 10-2 gives: $t_{ro} = 12.6$ minutes

Step 2 Determine collector flow, t_{rc} , as follows:

Collector flow to inlet is assumed to be gutter flow. Gutter flow velocity = 2.0 fps.

$$t_{rc} = 420 \text{ ft} / 2 \text{ fps} = 3.5 \text{ minutes}$$

$$\text{Response time } t_r = t_{ro} + t_{rc} = 16.1 \text{ minutes}$$

Step 3 Determine the unit peak discharge for 10-year storm from Equation 10-3

$$qu = C_o t_r^{C_1} \quad [\text{Equation 10-3}]$$

$$\begin{aligned} t_r &= 16.1 \text{ minutes} \\ C_o &= 5.8 \\ C_1 &= -0.50 \\ qu &= 1.45 \text{ cfs/acre} \end{aligned}$$

Step 4 Determine infiltration factor:

Elevation = 200 feet
Class D soils, residential landscaping with good cover.
Infiltration factor = .12 (Table 10-5)

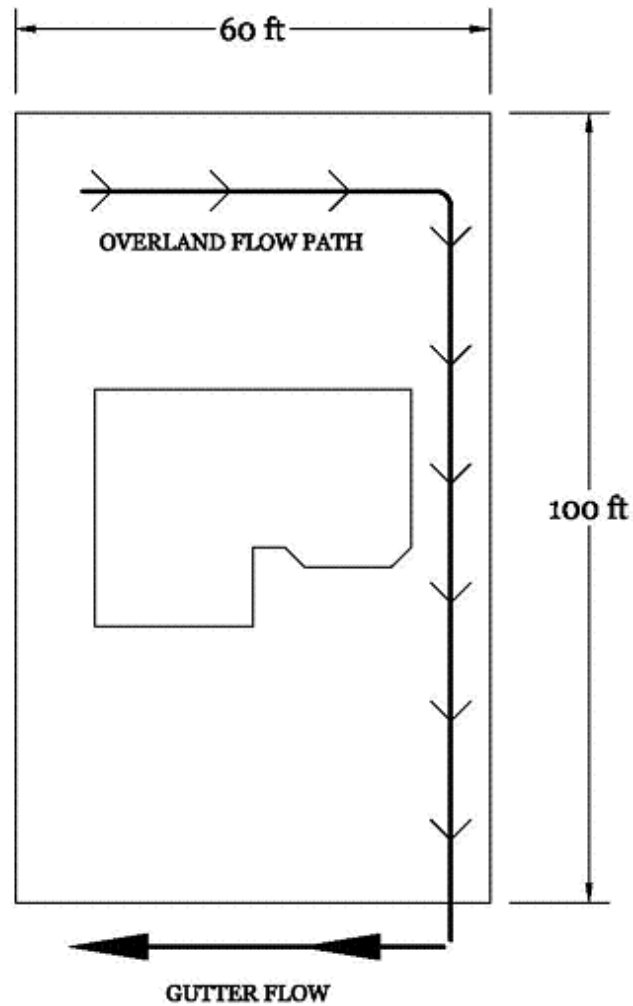
$$\begin{aligned} \text{From Equation 10-4, } F_i &= 1.71 \\ F_i &= 21 \end{aligned}$$

Step 5 Compute total peak flow:

$$\begin{aligned} \text{Pervious area} &= (.035)(1.4) = .49 \text{ acres} \\ Q_p &= 1.4(1.45) - .49(.21) = 1.93 \text{ cfs} \end{aligned}$$

This establishes flow into the drainage system. From this point, the time within the conduit is added to both the impervious response times and conduits are sized appropriately.

EXAMPLE PROBLEM



OVERLAND FLOW LENGTH = 160ft TO GUTTER
GUTTER FLOW LENGTH = 420ft TO INLET
SHED AREA TO INLET = 1.4 ACRES
35% OF SHED AREA PERVIOUS

FIGURE 10-1

10-9 HYDRAULIC STANDARDS FOR DRAINAGE SYSTEMS – All storm drain pipelines and open channels shall be designed to convey the design peak runoff calculated per Section 10-8 and shall conform to the following requirements:

A. Hydraulic Grade Line – The grade line for the 10-year discharge shall be a minimum of one foot below all inlet grates, manhole covers, and all other drainage structures in the system. The hydraulic grade line shall be shown on the plans when it is above the top of the pipe.

B. Manning's Formula – The “n” value used in Manning's formula shall conform to the following:

1. Manning's formula shall be used to compute capacities of all open and closed conduits other than culverts.
2. A minimum “n” value of 0.015 shall be used for sizing conduits.
3. Minimum velocity in closed conduits shall be 2 feet per second. Maximum velocity shall be 12 feet per second. Velocities shall be based on full flow conditions.

10-10 STREET INUNDATION REQUIREMENTS – City streets are allowed to convey runoff for storm events larger than the 10-year. The standards for street inundation are specified in Table 10-6. The Consulting Engineer shall provide calculations and an exhibit showing that these standards are met. Street inundation calculations will assume the pipe system is fully functional.

ALLOWABLE STREET INUNDATION: Table 10-6

STREET	10-YEAR STORM	25-YEAR STORM	100-YEAR STORM
LOCAL At continuous grade, uphill, and downhill At Sag Points	Traveled lanes remain clear and do not carry storm water. Storm water elevation does not exceed top back of curb or back of sidewalk. Maximum depth in traveled way is 6". Centerline shall be dry	Maximum depth at gutter flow line shall not exceed top-back-of-S/W (if no S/W, or S/W is offset) or a max. of 6". Centerline of street shall remain dry. Storm water elevation does not exceed 4" above the top back of curb. Maximum depth in traveled way – 6".	Maximum depth at gutter flow line shall not exceed 4" above the top –back-of-curb or a max. of 10". Max. depth at centerline is 4" Storm water is a maximum of one foot below building pads. Ponding does not exceed more than 120' from inlet along any street
COLLECTOR At continuous grade, uphill and downhill At Sag Points	Traveled way remains clear and does not carry storm water. Storm water elevation does not exceed top back of curb or sidewalk. Maximum depth in traveled way – 6". Centerline shall be dry.	Maximum depth at gutter flow line shall not exceed top-back-of-curb or max. of 6" Storm water elevation does not exceed 4" above the top back of curb. Maximum depth in traveled way – 6".	Storm water flow is contained within the right-of-way. The center 12 feet of roadway shall remain clear of storm water. Storm water flow is contained within the right-of-way. The center 12' of roadway shall remain clear of storm water. Note: If the roadway is separated by a median, then each half of the roadway shall maintain a 12' clear path of travel.
ARTERIAL & EXPRESSWAY At continuous grade, uphill and downhill, or at sag points			All travel lanes are clear of storm water flow. Bike lanes are allowed to be inundated. Storm flow contained within the right-of-way.

10-11 CLOSED CONDUITS – The specific type of pipe or alternate pipe to be used in any development shall be shown on the approved plans. If the Consulting Engineer proposes to use any type of pipe not shown on the approved plans, the plans shall be resubmitted to the City Engineer for approval.

A. Size and Material – Drainage systems to be maintained by the City shall have a minimum pipe diameter of 12 inches. Private, onsite drainage systems that are reviewed by the City shall have a minimum pipe diameter of 8 inches. The types of pipe materials that are allowed are stated in the City of Roseville's Construction Standards, Section 101-8 D.

B. Cover Requirements – See details DR-19 and TB-2 for minimum pipe cover requirements.

In fill areas, or in areas with poor soil conditions where it is anticipated that a good, firm, vertical-walled trench cannot be constructed, the Consulting Engineer shall design the pipe structural requirements in accordance with good engineering practice. If trench conditions are uncertain, a note shall be placed on the plans making it the Contractor's responsibility to work with the Consulting Engineer to determine and place the proper strength pipe if poor trench conditions are encountered.

C. Alignment – Pipelines for storm drainage shall have a constant slope between manholes, junction boxes, and/or catch basins. Minimum radius of horizontal curvature shall be 200 feet. In no case shall the radius of curvature be less than the manufacturer's recommendations for the particular pipe size under consideration.

Drainage pipelines shall be located in the street whenever possible. The location of storm drainage pipelines in the streets shall be 5 feet north or west of and parallel with the street centerline. A minimum angle of 90 degrees shall be accommodated for downstream flow around bends, tees, and connection points.

When storm drainage lines are to be placed in existing streets, factors such as curbs, gutters, sidewalks, traffic conditions, pavement conditions, future street improvement plans, and existing utilities shall be considered.

Open ditches, lined channels, swales, and floodplain areas shall be maintained as nearly as possible in their existing alignment. When an open ditch is to be constructed parallel to an existing roadway, the ditch

shall be constructed outside the proposed right-of-way of the ultimate street development.

10-12 MANHOLES – Standard precast concrete manholes shall be constructed as required. Where special manholes or junction boxes are required, the City Engineer must accept the design. In no case will junction boxes or manholes be allowed which are smaller than 48 inches inside diameter. Manholes shall be located at junction points, angle points, changes in gradient, changes in conduit size, end of curves and beginning of curves. Manholes or junction boxes will not be required for reach of pipe less than 80 feet in length that is to be connected to a 36 inch or larger diameter pipe, subject to approval of the City Engineer. For straight alignment, the spacing of manholes shall not exceed 500 feet. The spacing of manholes shall be nearly equal whenever possible. On curved pipe, spacing of manholes shall be as specified in Table 10-7:

MANHOLE SPACING: Table 10-7

RADIUS	PIPE DIAMETER	SPACING
400' OR LESS	ALL	300'
GREATER THAN 400'	24" OR LESS	400'
GREATER THAN 400'	GREATER THAN 24"	500'

A. Saddle Manholes – Saddle manholes may be constructed on storm drain conduit 36 inches or greater in diameter provided that no junction exists with any other storm drain conduit as determined by the Director.

B. Covers – All manholes and junction boxes, other than inlets, shall have standard manhole covers per the Standard Drawings. No pipe will be allowed to enter a manhole into the transition portion of the manhole cone. Manholes will not be allowed in gutter flow line except where approved by the City Engineer. Slotted manhole covers may be used to pick up minor drainage in non-traffic areas.

10-13 INLETS – Drop inlets in streets shall be located on property lines in residential subdivisions except at intersections, where they shall be placed at curb returns. Inlets shall be such that the length of the flow in the gutter does not exceed 500 feet. The depth of flow in the gutter at the inlet shall not exceed 4.0 inches in a 10-year storm and shall not encroach into the traveled ways as specified in Table 10-6 for other design storms. The runoff volume shall include any flow that bypasses upstream inlets.

All inlets located with the right-of-way or easements shall conform to the City of Roseville's Construction Standards. Inlets may be modified for use without curb sections for on-site drainage. Where an inlet is proposed in public streets and sidewalk is not constructed adjacent to the back of curb,

a concrete collar shall be placed behind the inlet. Type C inlets may be used as junction inlets if the flow line is 4 feet or less below the grate elevation.

Drop inlets draining public streets may be connected directly to a trunk line 36 inches in diameter or larger by means of a lateral not exceeding 15 inches in diameter and 80 feet in length.

10-14 JUNCTION BOXES – The requirement for junction boxes are as follows:

- A.** Junction boxes shall be constructed of reinforced concrete or fabricated from reinforced concrete pipe section where size limitations permit. Structural calculations shall be provided for all junction boxes.
- B.** Minimum wall thickness for reinforced concrete junction boxes shall be 6 inches.
- C.** The inside dimension of junction boxes shall be such as to provide a minimum of three inches of clearance on the outside diameter of the largest pipe in each face. All junction boxes shall be rectangular in shape unless otherwise approved by the City Engineer. Junction boxes deeper than 4 feet shall have a minimum inside dimension of 48 inches.

10-15 INLET AND OUTLET STRUCTURES – The requirements for these facilities are as follows:

- A. Headwalls, Wingwalls, and Endwalls** – All headwalls, wingwalls, endwalls, preformed end sections, guard rails and bank protection shall be considered individually and shall be, in general, designed in accordance with the Standard Specifications and Standard Plans of the California Department of Transportation and City of Roseville, Construction Standards.

Metal beam guardrails or chain link fencing may be required by the City Engineer at culverts, headwalls, box culverts, and steep side slopes.

- B. Trash Racks and Access Control Racks** – Trash racks will be provided where they are necessary to prevent clogging of culverts, storm drains, and to eliminate hazards. Access Control Racks shall be required on all pipes, 24 inches or larger in diameter.

10-16 DRAINAGE PUMPS – Drainage pumps shall be avoided whenever possible, and used only with specific approval of the City Engineer. If the use of drainage pumps is permitted, the drainage system shall be designed so as to provide for gravity outfall during the summer months and other periods of low water stages. If a low stage gravity outfall is impossible or impractical, an alternative pump of a smaller capacity for low stage flow may be used provided the City Engineer grants specific approval.

A. Design Requirements – Pumping installations shall be designed to accommodate a design storm as specified by the City Engineer. When a station contains a gravity discharge, pumping capacity must be equal to the design inflow. When the station does not have a gravity discharge, pumping units must be designed to furnish 100 percent capacity with any one pump out. Any deviation from this criteria must receive the specific approval of the City Engineer.

Pumping stations shall be designed so that gravity flow does not pass through the pump pit. No motor overload condition shall exist at any sump or flow condition. This does not preclude high sump design if low sump condition does not create an overload.

Each pumping station shall receive separate approval for the electrical system, piping system, housing installation and other miscellaneous design features. The electrical system for drainage pumps shall conform to the electrical code and the State Department of Transportation Standards.

A detailed Operation and Maintenance Plan (O&M Plan) shall be submitted to the Engineering Division for approval prior to the approval of the pumping station.

B. Maintenance Requirements – Adequate access shall be provided for cleaning the pump sump. Trash racks shall be provided upstream from the pumping plant. Provisions shall be made for easy cleaning of the trash racks. Hatch covers, where used, shall be of raised pattern aluminum floor plate, or other approved lightweight cover. Dissimilar metals shall be insulated from each other when necessary. Ladder rungs, where used, shall be of non-slip variety. All drainage pumping plant sites shall be fenced with 6-foot chain link fence with barbed wire extensions arms.

10-17 CHANNELS AND OUTFALL DESIGN – Drainage shall be conveyed in an open channel if the drainage area exceeds 300 acres. Residential lots adjacent to open channels shall have minimum pad elevations of two feet above the 100-year water surface elevation. Non-residential lots shall have the lowest ground elevation adjacent to the building foundation at least two feet above the 100-year water surface elevation.

A. Open Channel Design Requirements – Channels shall be constructed to a typical cross section. Fully lined channels shall be designed with side slopes of 1:1 or flatter. Channels with unlined sides shall be designed with side slopes of 3:1 or flatter, or as specified by the Geotechnical Engineer based on existing soil conditions. Lined channels shall have a minimum bottom width of 6 feet. Lined channels shall be

finished concrete, sacked concrete, or doweled and sacked concrete. The minimum weight of sacked concrete shall be 60 pounds per bag. Unlined channels shall be designed with a minimum “n” value of 0.085.

All open channels shall be designed to carry the 100-year frequency design storm. The hydraulic grade line of the 10 and 100-year storms shall be calculated and plotted on all channel profiles. Freeboard shall be a minimum of one foot for the 100-year event and two feet when the drainage area exceeds 300 acres. The velocity range shall be 2.5 to 6.0 feet per second in unlined open channels and 3.0 to 12.0 feet per second in lined open channels. All computations shall be clearly documented and submitted to the City Engineer for approval.

For all channels, either realigned or natural, the following shall be shown on the improvement plans in addition to the information heretofore required:

1. The profile of existing channels shall be shown for a minimum of 1000 feet at each end of the development on the construction plan to establish a minimum profile grade.
2. Typical sections and cross sections.

B. Interceptor Ditches – Interceptor ditches or approved alternates shall be placed at the top of the cut or bank where deemed necessary by the City Engineer to prevent erosion of the channel bank. Runoff shall not be allowed to sheet flow over the top of banks.

C. Outfall Profiles – All drainage outfalls shall be shown both in the plan and profile view, on the improvement plans for a distance of 1000 feet or until a definite “daylight” condition is established. All drainage ditches upstream of the improvement shall be shown on the plan and profile sheets for a distance of at least 500 feet or until an average profile grade through the improvement is established. The profiles shall include ditch flow line and top of bank elevations.

When improvements have more than one unit, the drainage outfall shall be shown as extending to the property boundary and beyond if required, although it may not be constructed with the current unit development. All temporary outfalls shall be shown both in plan and profile view, on the improvement plans.

D. Fencing – Channels exceeding three (3) feet in depth and with side slopes steeper than 3:1 shall be fenced with six(6) foot high chain link fence per Section 80-4 of the Caltrans Standard Specifications. In all other areas, fencing shall be placed as specified the City Engineer. Fences shall be located 6 inches inside the drainage easement lines and

a minimum of 12 inches from the top bank. No fencing shall be allowed within the floodway of an open watercourse without the approval of the City Engineer. Special requirements shall be specified by the City Engineer for fencing within the 100-year floodplain of any open watercourse.

Drive gates shall be provided with a minimum width of 12 feet. A minimum 4-foot wide walk gate shall also be provided.

E. Access Roads – An all-weather access road consisting of six (6) inches of compacted AB shall be provided adjacent to all channels and outfall ditches to the satisfaction of the City Engineer. Access roads shall have a minimum width of 12 feet and shall provide a bulb at end for turning movements.

10-18 CROSS CULVERTS AND BRIDGES – This section specifies criteria for relatively short circular or box culverts and bridges for transverse crossings (typically road or railroad embankments). Cross culverts shall be of the same material as allowed for closed conduits. (See Section 10-11).

Cross culvert profiles will be determined on an examination of the channel for a minimum distance of 1000 feet on each side of the installation.

Driveway culverts shall be approved by the City for size, grade, alignment and type. Driveway culverts will not be allowed unless the City has agreed to deter the construction of the curb and gutter unless it is for the temporary construction access.

New culverts or bridges for roadways that cross the City's Regulatory Floodplain shall incorporate provisions for the installation of permanent stream measuring equipment. This shall be a 10' x 10' flat pad near the 100-year water surface elevation with vehicle access. A two(2) inch diameter electrical conduit from the pad to the flow line of the channel will be installed, (see detail DR-18 of the City of Roseville Construction Standards).

A. Design Storm – Cross culvert size shall be determined on the basis of runoff as specified in the hydrology portion of this section. Cross culverts, in general, shall be designed for a 25-year storm event with no head on the inlets. They shall also be sized such that no serious damage will be incurred due to ponding as a result of a 100-year event. A flood easement shall be provided for all areas impacted due to upstream ponding in the 100-year event. Culverts across arterials shall be sized for the 100 year storm with a minimum of one foot of freeboard below the lowest travel lane. Minimum diameter of cross culverts shall be 18 inches.

To account for debris collection, a clogging factor of 150% shall be applied to all storm frequencies in the design of bridges or culverts that cross a channel or stream with a drainage area that exceeds 300 acres.

Note: New bridges along planned bike trail corridors need to be designed so that the head clearance on the trail will meet the standards of Section 13-5.

B. Computation of Flow – Inlet or outlet conditions control flow in transverse culverts. In culverts operating under inlet control, the cross-section area of the culvert barrel, the inlet geometry and the amount of headwater at the entrance are primary importance. Outlet control involves the additional consideration of the elevation of the tailwater in the outlet channel and the slope, roughness and length of the culvert barrel.

Anticipated downstream flow depth and allowable headwater depth govern the available head on culverts. The type of flow under which a culvert will operate may be determined from a given set of conditions. This may be avoided by computing headwater depths from the charts in this section for both inlet and outlet control and then using the higher value to indicate the type of control and to determine the headwater depth. This method of determining the type of control is accurate except for a few cases where the headwater depth is approximately the same for the both types of control. The monographs provided in this section shall be used for culvert design with uniform barrels. Where barrel sizes or entrance configurations differ between barrels, written calculations shall be provided to the satisfaction of the City Engineer.

The roughness coefficient, “n”, can be adjusted for the monographs by use of the following equation:

$$L_1 = L * \left[\frac{n_1}{n} \right]^2$$

10-19 DETENTION AND RETENTION BASINS – If detention or retention basins are required for peak flow reduction, the design of the basin must conform to the latest addition of the Placer County Flood Control District’s “Stormwater Management Manual”. The basin layout and design shall minimize its maintenance time and cost. The basin should be designed to allow for the 2-year storm event flows to bypass the basin. This will be key factor in the approval of the basin’s O&M Plan by the Engineering Division.

10-20 ACCESS FOR MAINTENANCE –These facilities may include, but are not limited to bridges, culverts, headwalls, lined and unlined channels/ditches, sand/oil separators, manholes, retention basins and

drain inlets. The access way shall be a minimum 12 feet wide and include six(6) inches of $\frac{3}{4}$ inch aggregate base (95% relative compaction) over six(6) inches of processed, native soil (95% RC). Upon the City Engineer's request, four (4) inches of asphalt concrete shall be added to the section and/or a cul-de-sac with a minimum diameter of 75 feet.

[illegible]

CITY OF ROSEVILLE – ENGINEERING DIVISION

SUBMITTAL REQUIREMENTS FOR ALL HEC – 1 STUDIES

Submit the items listed under each category that applies to each HEC – 1 model run that is submitted.

1. Hec-1 print out with summary tables.
The following information shall be on the cover of the print out:
 - Name of engineering firm who performed the study
 - Name of the project
 - Version of HEC-1 program
 - Date & time that the model was run
 - A statement if the model is pre-project or post-project
2. The computer model disk.
 - Disk must be clearly labeled
 - If more than one model file is on the disk, a listing and description of all files shall be included with the disk in an envelope
 - HEC-1, HEC-2 or HEC-RAS files shall be submitted on separate disks
3. City of Roseville's "Model Summary Worksheet" Pages 1-3 completed out for each HEC-1 run submitted and attached to the printout.
4. Drainage Shed map showing the following:
 - Outline of all subsheds used in the HEC-1 study
 - The label of each subshed as modeled in the HEC-1 study
 - The area of each subshed as used in the HEC-1 study
 - The location where each subshed merges with the next clearly marked
5. If the study compares pre-project to post-project HEC-1 models, the City's summary sheets shall include a listing of all the types and the locations of changes made in the model

Page 1 OF 3

Has the pre-project study been approved by the city? ___ **YES** and when _____
 ___ **NO**

Location in model	Amount of storage resulting from each design storm	Storm frequency	Max. Stage Height (ft.)	Freeboard to Spill Point (ft.)
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

**CITY OF ROSEVILLE
HEC-1 MODEL SUMMARY WORKSHEET**

Page 2 OF 3

SUBSHED INFORMATION

The total number of subsheds in the model: _____

Provide an assumed "N" factor used most often for the following surfaces:

Overland swales _____ Concrete gutters _____ Drainage Pipes _____

Earth-lined channels _____ Streams _____ Other _____

TITLE OF SUBSHED OR ROUTING LEG IN MODEL	PRIMARY LAND USES OF SUBSHED residential, open space, commercial, etc.	AREA OF SUBSHED (SQ ML)	METHOD USED IN ROUTING EXAMPLE: Kinematic wave, Muskingum	WAS DETENTION MODELED (YES OR NO)

**CITY OF ROSEVILLE
HEC-1 MODEL SUMMARY WORKSHEET**

Page 3 OF 3

PRE-PROJECT TO POST-PROJECT CHANGES

This sheet shall be completed if this HEC-1 study is used to compare pre-project to post-project runoff.

Name of pre-project HEC-1 study : _____
Run date _____

Basin's peak flow rate: Existing conditions _____

Post-development conditions _____

Has the pre-project study been approved by the City? _____ **YES** If yes, when? _____
_____ **NO**

Locations in	Types of change made
Example Shed-2S	Change earth-lined channels to drainage pipes and increased sub-shed area

CITY OF ROSEVILLE - ENGINEERING DIVISION

SUBMITTAL REQUIREMENTS FOR ALL HEC-2 or HEC-RAS STUDIES

SUBMIT THE ITEMS LISTED UNDER EACH CATEGORY THAT APPLY TO EACH **HEC-2 or HEC-RAS** MODEL RUN THAT IS SUBMITTED.

1. HEC-2 or HEC-RAS print out with summary tables,
The following information shall be on cover of the print out:
 - * Name of engineering firm who performed the study
 - * Name of project
 - * Version of HEC-2 or RAS program
 - * Date & time that the study was run
 - * Statement if the study is pre-project or post-project
2. Provide the computer model on a 3-1/4" disk or cd-rom.
 - Disk must be clearly labeled.
 - If more than one model file is on the disk, a listing and description of all files shall be included with the disk in an envelope.
 - HEC-1, HEC-2 or HEC-RAS files needs to be submitted on separate disks
3. City of Roseville's "Model Summary Worksheet" pages 1-3 filled out for each HEC-2 or HEC-RAS run that is submitted.
4. Water course map showing the following:
 - Lay out of the route of all water courses used in the HEC-2/RAS study.
 - All man-made structures with their type and size will be clearly marked and labeled (bridges, culverts, storm drain pipes, man-made channels, etc.).
 - Map of the locations and number of all cross-section used in study.
 - The starting HGL and peak flow rate for all storm frequencies modeled.
 - The location of where the flow rate changes and what the new flow rate is.
5. If the study compares pre-project to post-project HEC-2/RAS models, you shall include a summary sheet listing the locations and types of changes made between the models.

**CITY OF ROSEVILLE
HEC-2 / HEC-RAS MODEL SUMMARY WORKSHEET**

Page 1 of 3

Name of project: _____

Name of engineering firm who performed the study: _____

Contact person _____ Phone # _____

If this replaces a previous study, what is the name of that study _____

This study reflects: ☐ Existing conditions ☐ Post-development conditions

If this HEC-2/RAS study is used to compare pre-project to post-project runoff what is the name of the study that you are comparing it with _____

Run date _____

Has the pre-project study been approved by the city ☐ **yes** ☐ **no**

If yes, name and when

Total length of water course (miles) _____ Total number of cross-sections

Name of Hydrology study used to get peak Discharge?

Design storm frequency: ☐ 2 yr ☐ 5 yr ☐ 10 yr ☐ 25 yr ☐ 50 yr ☐ 100 yr ☐ Other _____

The starting HGL _____

Starting flow rate _____

How was the starting HGL determined:

Give location of cross-sections where the flow rate changes and what the new flow rate(s) are.

START	10 YEAR	50 YEAR	100 YEAR

CITY OF ROSEVILLE HEC-2 / HEC-RAS MODEL SUMMARY WORKSHEET

Page 2 of 3

CHANNEL REACH INFORMATION

Give the total number of reaches in the Model _____

Provide assumed "N" factors used most often for the following surfaces:

Overland swales _____ Concrete Gutters _____ Drainage Pipes _____

Earth-lined channels _____ Streams Channel _____ Main channel _____

Over Bank _____ other _____

Are the assumption used in hydrology study's routing section to determine peak discharge, in line with those used in this hydraulic study for the same segment of channel (channel length , "N" factor , etc.)

☐ **yes** ☐ **no** If **no** explain why. _____

BRIDGE OR CULVERT MODEL INFORMATION

Provide the following Information for all Bridge and Culvert crossings:

DOWN STREAM X-SEC. AT BRIDGE OR CULVERT	METHOD USED TO MODEL (special culvert, bridge, etc.)	IS STRUCTURE OVERTOPED example (2.1 ' in 50 yr, 3.4' in 100 yr)	WAS DETENTION MODELED (YES OR NO)

**CITY OF ROSEVILLE
HEC-2 / HEC-RAS MODEL SUMMARY WORKSHEET**

Page 3 of 3

PRE-PROJECT TO POST-PROJECT CHANGES

Name of pre-project study: _____

Run date_____

Name of post-project study: _____

Run date_____

Do you plan to place any improvements in, or change the Floodway ☐ **yes** ☐ **no** If **yes** explain.

Provide the following Information for all changes between studies:

Locations	Types of changes (added, deleted, changed)
Xsec-252	Added xsec. to reflect encroachment, Changed right overbank "N" to 0.04

Floodplain Encroachment Compliance Statements

Improvements are being proposed within the 100-year floodplain of the City of Roseville.

These improvements are shown on the plans for:

The proposed plans for: _____

Designed by: _____

Dated: _____

A hydraulic study has been completed to show the hydraulic impacts of all of the improvements proposed within the floodplain shown on these plans. The title of this study is:

Title of hydraulic study: _____

Prepared by: _____

Dated: _____

I certify that I have looked at both the plans and the study and found that the improvements that are within the 100-year floodplain shown on the plans listed above are in conformance with the hydraulic study listed above and are accurately represented in the study.

Signed

R.C.E Lic. Number _____

Expires _____

SECTION 11

GRADING

11-1 INTRODUCTION - The City's authority to regulate grading on private property varies depending on the property's location. For properties located within specific plan areas of the City, the authority is provided by the zoning ordinance for the specific plan area. For properties which are not located within a specific plan area, the City's authority for regulating grading is provided by Chapter 33 & 18 of the California Building Code (CBC). The CBC requires that a Grading Permit be obtained from the City prior to beginning any grading work unless the work meets certain exemptions specified in the CBC. This is necessary to ensure that on-site drainage adequately accommodated, off-site drainage is conveyed through the project, the proposed grading is compatible with adjacent property topography and adequate erosion and sedimentation control measures are addressed.

This section specifies design and plan submittal requirements of Grading Plans for private developments. It includes items pertinent for the City's review and reflects established professional engineering practice for preparation of Grading Plans. Questions and clarifications regarding this Section should be directed to the Engineering Division of the Development Services Department.

The City of Roseville has adopted Stormwater quality design standards to reduce water pollution generated by urban runoff. These design standards are detailed in the Stormwater Quality Design Manual for the Sacramento and South Placer Regions. This manual is available on-line at the City of Roseville website, www.roseville.ca.us/civica/filebank/blobdload.asp?BlobID=19385. The Manual can also be purchased at the City's Permit Center located on the first floor of the Civic Center Building at 311 Vernon Street downtown Roseville.

Two (2) types of Grading Plans are reviewed by the City: Finished Grading Plans and Rough Grading Plans.

Finished Grading Plans shall be submitted as part of the Improvement Plans for a project. Finished grading requirements shall be specified in Section 11-4.

Rough Grading Plans are submitted separately from and may be accepted prior to Improvement Plans. The plans should detail only preliminary grading of a site. The design shall not allow for construction of any improvements (storm drains, streets, curbs, gutters, etc.) and shall indicate positive drainage flow except in those instances provided on the

plans for erosion and/or sedimentation control. Rough grading requirements shall be as specified in Section 11-5.

11-2 FEES AND BONDS - Plan review and permit fees for grading shall be in accordance with Chapter 33 of the California Building Code (latest edition as adopted by the City). 100 percent of the plan review fees will be required at the time of submittal. See section 2-7 for Grading Permit fee schedule. The amount of the bond shall be equivalent to ten (10) percent of the cost of the grading and all erosion and sediment control measures, but not less than \$500.00.

11-3 PREPARATION - All Grading Plans shall be prepared by or under the direction of a Registered Civil Engineer. All Sheets shall be stamped and signed by a Registered Civil Engineer licensed in the State of California.

11-4 FINISHED GRADING PLAN REQUIREMENTS - Grading Plans for subdivisions and all developments located within Planned Development zones shall be submitted as part of the Improvement Plans and shall detail the following:

- A.** Slope symbols for all slopes 3:1 or steeper.
- B.** Typical lot grading details.
- C.** Proposed spot and/or pad elevations. All lot corner elevations shall be shown on the Grading Plan.
- D.** Flow directional arrows both on-site and off-site and perimeter elevation at the property line.
- E.** Existing spot elevations and or contour lines on-site and off-site around the perimeter of the development. Where the existing terrain is not relatively flat, contour lines shall be shown. Contour lines shall be in maximum increments of two (2) feet. The spot elevations or contour lines shall be extended off-site for a minimum distance of 25 feet (flat terrain-50 feet minimum).
- F.** Existing trees (variety, size and elevation at the base of all trees six (6) inches in diameter or larger). For native oak trees, the plan shall show the protected zone and the approved protective fencing locations. Encroachments into the protected zone require tree permit approval.
- G.** A Certificate of Compliance of Grading with signature blocks for both the Registered Civil Engineer and the Geotechnical Engineer licensed in the State of California shall be provided stating the following:

CERTIFICATE OF COMPLIANCE

I hereby certify that the grades shown on these plans and approved by the Development Services Department have been constructed to within 1/10th of one (1) foot of their indicated elevation for all lot pads and improvements shown.

Project Engineer

PE Number

Date

I hereby certify that the pads for the following lots for this project have been tested for compaction in accordance with generally accepted test methods and based upon the results of these tests the compaction of said pads conforms to the recommendations of this projects geotechnical report:

Lots: -----

I also state that our firm observed the grading operation to a sufficient extent to evaluate conformance with the project's geotechnical report as approved by the City, and further state that based upon our observations, the grading for this subdivision conforms with the recommendations of said soil report.

Geotechnical Engineer

PE Number

Date

- H.** Back of sidewalk elevations at property lines, curb returns, high and low points, and other areas deemed necessary by the City Engineer.
- I.** All existing and proposed surface and subsurface drainage facilities including drain inlets, underground pipes, surface swales, and any other drainage improvement proposed to be constructed with, or as a part of, the proposed work.
- J.** Location of existing and proposed buildings or structures on the site, including proposed pad and/or finished floor elevation. Proposed residential plot plans should not be shown on the Grading Plans.
- K.** Location of existing and proposed buildings or structures on the land of adjacent owners which are within fifteen (15) feet of the property and which may be impacted by the proposed grading operations.
- L.** Location of all existing and proposed retaining walls.
- M.** Typical sections across side yard property lines where the difference in finish pad elevations exceeds on (1) foot.

N. Names of adjacent subdivisions.

O. Off-site intersecting property lines.

P. For all projects involving the export of soil material:

1. Location of spoiled disposal. If spoil area is within a Specific Plan area of the City, a separate Conditional Use Permit is required for that site.

2. Spoil areas shall meet all the requirements of these standards.

Q. Silt retention and erosion control details as necessary and specified in these Design Standards.

R. Location of temporary protective fencing for environmentally sensitive areas such as: creeks, wetlands, vernal pools, perennial streams, and preserve areas.

11-5 ROUGH GRADING PLAN REQUIREMENTS - Grading Plans for subdivisions and all developments located within Planned Development zones shall conform to the same requirements as those specified for Finished Grading Plans excepting the following:

A. Improvements - Only existing improvements such as utilities, curbs, gutters, etc. shall be shown. Utilities and streets to be constructed with the Improvement Plans shall not be shown as part of the Rough Grading Plans.

B. Drainage - All rough plans shall provide for positive surface drainage flow except in those instances provided on the plans for erosion and/or sedimentation control.

11-6 DESIGN REQUIREMENTS-

A. Rolling Terrain Grading - Grading of rolling terrain shall be accomplished in a manner whereby the effect of the rolling terrain is maintained as close to that which exists, to the extent practicable. Every effort shall be made to keep grading of rolling terrain to an absolute minimum.

B. Boundary Grading - Special attention shall be given to grading adjacent to the exterior perimeter property line of a development. All adverse effects to off-site properties adjacent to new developments shall be kept to an absolute minimum. Fills and cuts adjacent to the exterior perimeter property line shall be designed in accordance with the following:

1. When grading along existing residential property, the grade should be, if at all possible, held equal to or lower than the existing property grades. When grades are to be raised higher than existing adjacent residential lots, a masonry retaining wall shall be used, regardless of the difference in elevation. The wall shall be located as close to the property line as is feasible for construction. If permission can be obtained from the adjacent property owner(s), the wall should be placed on the property line or onto the lower lot and the fence relocated to the top of the wall.
2. If possible, all exterior slopes, fill or cut, shall be constructed off-site, with the property line being situated a minimum of two (2) feet inside the higher elevation. If a right of entry cannot be obtained, a retaining wall shall be placed as near to property line as practicable.
3. A recorded notarized right of entry shall be required for all off-site fills and grading prior to plan approval.
4. Fill slopes adjacent to designated open spaces shall have a maximum slope of 3:1. Exceptions to this specification may be made where physical constraints restrict the use of 3:1 slopes, at the discretion of the City Engineer. Maximum slope of all other boundary grading shall be 2:1 or as specified by the Geotechnical Engineer.
5. All slopes steeper than 4:1 adjacent to the public right-of-way and private streets shall be protected with permanent erosion control measures.
6. All fill material shall achieve 90 percent relative compaction certified by a Registered Geotechnical Engineer.
7. When a drainage swale or ditch is proposed to run adjacent to the property line, a level area, minimum width of five (5) feet is required between the property line and the top of the slope bank.
8. A specific haul route shall be approved by the City Engineer when a large quantity of imported or exported soil is required. Where a haul route has not been determined at the time of plan approval, the permit shall be conditioned stating that no grading activities shall occur until a haul route has been approved by the City Engineer.

C. Interior Grading - Differences in elevations across interior property lines within a development, such that slopes or retaining walls are required, shall conform to the following:

1. Cross lot drainage is not allowed unless specifically approved by the City Engineer for tree preservation. All single-family residential lots

shall have Class 1 grading as per the Standard Drawings unless approved otherwise by the City Engineer. When a Class 2 or Class 3 lot grading plan is proposed as part of a tentative map application for a single-family residential subdivision, the tentative grading plan showing rear lot drains shall be supplemented with an alternative plan showing the effect on the subdivision if rear lot drains are not utilized.

2. Retaining Walls shall be required whenever adjacent side lot elevations differ by more than $\frac{1}{2}$ foot. In such cases, a minimum three (3) foot wide walk path shall be maintained adjacent to all side property lines. Where the Consulting Engineer feels that this path will be maintained without the use of a retaining wall, application for a waiver may be made by preparing and submitting a site plan scale on 8-1/2" X 11" reproducible paper for each lot which is requested to be exempted, or by submitting a standard Lot Grading and Setback Guarantee. The Lot Grading and Setback Guarantee shall specify which lots for which a waiver of the retaining wall requirement is requested, shall state the minimum setback of the proposed structure from the toe of slope, and shall state that should the minimum setback not be possible during construction, a retaining wall shall be constructed to the requirements of these Design Standards. Upon approval, a copy of these will be given to the Building Division to utilize in their review. Any deviation to these plans will be subject to the approval by the Engineering Division.
3. Property lines shall be situated a minimum of 1.0 foot inside the top of fill or cut slopes when pad elevations differ by $\frac{1}{2}$ foot or less. When retaining walls are used, the property lines shall be situated on the high side of the retaining wall with a minimum setback of 1.0 foot from the property line to the retaining wall. Where pad elevations differ by more than $\frac{1}{2}$ foot and waiver of placement of retaining walls is required per the requirements stated above, property lines shall be situated a minimum of 2.0 feet inside the top of fill or cut slopes.
4. The maximum earth slopes allowed shall be 2:1 (horizontal to vertical). Minimum asphalt concrete surface slopes shall be 1% and minimum concrete cement surface slopes shall be 0.25%. All proposed slopes that are 3:1 or steeper shall be shown on the plans by some type of slope symbol delineation.
5. Lots on the low side of streets at sag points shall have pad elevations a minimum of one (1) foot above the 100 year water surface elevation assuming failure of all subsurface drainage systems.

D. Retaining Walls - Retaining walls, when required, shall be shown on the plans and shall include all necessary information and details for construction. All retaining walls adjacent to the public right-of-way or along the exterior boundary of the project shall be masonry. Other retaining walls less than or equal to 2' -6" in height may be redwood conforming to the Standard Drawings except as specified in Section 11-6. Walls higher than 2' -6" shall be masonry. All walls higher than four (4) feet as measured from base of foundation to top of wall shall be substantiated with structural calculations stamped by a Registered Civil Engineer licensed in the State of California and a Building Permit shall be obtained from the Building Division.

E. Grading near Trees - No person shall conduct any activity within the Protected Zone of a Native Oak Tree or Landmark Tree without approval of a Grading Permit issued conformance with the Tree Permit Conditions. Great care must be exercised when work is conducted upon or around Protected Trees. The purpose of this section is to define procedures necessary to protect the health of the Protected Trees. The policies and procedures described in this section apply to all encroachments into the Protected Zone of Protected Trees. All Tree Permits shall be deemed to incorporate the provisions of this section except as the Tree Permit may otherwise specifically provide.

1. General

- a.** Trenching within the protected Zone of a Protected Tree, when permitted, may only be conducted with hand tools, in order to avoid root damage.
- b.** Minor roots less than one (1) inch in diameter may be cut, but damaged roots shall be traced back and cleanly cut behind any split, cracked or damaged area.
- c.** Major roots over one (1) inch in diameter may not be cut without approval of an Arborist. Depending upon the type of improvement being proposed, bridging techniques or a new site design may need to be employed to protect the root and the tree.
- d.** If any Native Ground Surface Fabric within the Protected Zone must be removed for any reason, it may be protected within 48 hours.
- e.** An independent low-flow irrigation system may be used for establishing drought-tolerant plants within the Protected zone of a Protected Tree. Irrigation shall be gradually reduced and discontinued after two (2) years.

- f. Planting Live material under native Oak Trees is generally discouraged and it will not be permitted within six (6) feet of the trunk of a Native Oak Tree with a DBH of eighteen (18) inches or less, or within ten (10) feet of the trunk of a Native Oak Tree with a DBH of more than eighteen (18) inches. Only drought tolerant plants will be permitted within the Protected Zone of Native Oak Trees.
- g. A minimum of four (4) foot high protective fence shall be installed at the outermost edge of the Protected Zone of each Protected Tree or group of Protected Trees. The fence shall not be removed until written authorization is received from the Planning Director. Exceptions to this policy may occur in cases where Protected Trees are located on slopes that will not be graded. However, approval must be obtained from the Planning Department to omit fences in any area of the project. The fences must be installed in accordance with the approved fencing plan prior to the commencement of any grading operations or such other time as determined by the approving body. The Developer shall call the Planning Department and Engineering Division for an inspection of the fencing prior to grading operations.

Signs must be installed on the fence in four (4) locations (equidistant) around each individual Protected Tree. The size of each sign must be a minimum of two (2) feet by two (2) feet and must contain the following language:

**WARNING:
THIS FENCE SHALL NOT BE REMOVED
OR RELOCATED WITHOUT WRITTEN
AUTHORIZATION FROM THE
PLANNING DEPARTMENT**

- h. Once approval has been obtained, the fences must remain in place throughout the entire construction period and may not be removed without obtaining written authorization from the Planning Department.
- i. A minimum of \$10,000 deposit, or amount deemed necessary by the approving body, shall be posted and maintained to insure the preservation of Protected Trees during construction. The deposit shall be posted in a form approved by the City Attorney prior to any grading or movement of heavy equipment onto the site or issuance of any permits. Each violation of any Tree Permit condition regarding Tree Preservation shall result in forfeiture of a portion of the deposit, in the discretion of the approving body.

- j. In cases where a Tree Permit has been approved for construction of a retaining wall(s) within the Protected Zone of a Protected Tree, the Developer will be required to provide for immediate protection of exposed roots from moisture loss during the time prior to completion of the wall. The retaining wall shall be constructed within 72 hours after completion of the grading.
- k. If required, preservation devices such as aeration systems, Oak Tree wells, drains, special paving and cabling systems must be installed per approved plans and certified by the Developer's Arborist.
- l. Every effort should be made to avoid cut and/or fill slopes within or in the vicinity of the Protected Zone of any tree.
- m. No grade changes are permitted which cause water to drain to within twice the longest radius of the Protected Zone of any Protected Tree.
- n. Certification letters are required for all regulated activity conducted within the Protected Zone of Protected Trees. The Developer's Arborist will be required to submit a certification letter to the Planning Department within five (5) working days of completion of such regulated activity attesting that all of the work was conducted in accordance with the appropriate permits and requirements of this section.
- o. The following information must be located and permanently retained in the construction trailer starting at the site planning meeting:
 - i. *Arborist's* report and all future modifications.
 - ii. Tree location map with a copy of the tree fencing plan.
 - iii. Tree permit and inspection card.
 - iv. Approved Construction Plans.
 - v. Tree Preservation guidelines.
 - vi. Approved Planting and Irrigation Drawings.

2. Tree Permit Construction Phase -

- a. All work conducted within the Protected Zone of any Protected Tree shall be performed as required by this section and as required in project approval.
- b. As a condition of the Tree Permit, the Developer will be required to submit a utility trenching-pathway plan for approval following approval of the project Improvement Plans. The trenching-pathway plan shall depict all of the following systems; storm drains, sewers, easements, water mains, area drains, and underground utilities. Except in lot sale subdivisions, the trenching-pathway plan must show all lateral lines serving buildings. To be completely effective, the trenching-pathway plan must include the surveyed locations of all Protected Trees on the project as well as an accurate plotting of the Protected Zone of each Protected Tree.

The trenching-pathway plan should be developed considering the following general guidelines:

- i. The trenching-pathway plan must be developed to avoid going into the Protected Zone of any Protected Tree on its path from the street to the building.
- ii. Where it is impossible to avoid encroachment, the design must minimize the extent of such encroachment. Encroachments and mitigation measures must be addressed in supplemental Arborist's report.
- c. All of the tree preservation measures required by the conditions of the discretionary project approval, the Arborist's report and the Tree Permit, as applicable, shall be completed and certified by the Developer's Arborist's prior to issuing an Occupancy Permit.

F. Stormwater Pollution Prevention Plan (SWPPP) – A site specific SWPPP shall be submitted concurrently with the Improvement and /or Grading Plans when a project disturbs land. For information concerning the preparation of a SWPPP, the Project Engineer should refer to the City of Roseville's "Stormwater BMP Guidance Manual for Construction", the California Stormwater Quality Association (CASQA). "Stormwater BMP Handbook / Construction", and the State of California NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities.

The SWPPP shall match identically to that of the SWPPP submitted to the State Water Resources Control Board via their electronic SMART system, up until the time improvement plans are approved,

encroachment and/or grading permits are issued, and construction commences.

SWPPPs are not required for projects under one acre, unless they are part of a larger development encompassing over one acre. For projects less than one-acre, an erosion and sediment control plan shall be submitted with the improvement plans to the City for approval. This is generally part of the Grading Plan for the development. The Development Services Department, Engineering Division will accept the erosion and sediment control plan upon review of the project. All erosion and sediment control devices shall be identified and implemented in the same fashion as projects with SWPPPs over one acre. Enforcement will be conducted similarly, with exception to SWPPP administrative requirements.

1. Criteria - The purpose of the SWPPP is to ensure protection of the following:

- a.** Water Quality - Measures shall be provided to prevent siltation of streams, rivers, etc; avert in stream degradation due to turbidity and pollutant load; and prevent toxic materials from leaving construction sites.
- b.** Collection System - Methods shall be provided to prevent sediment from entering the storm drainage system.
- c.** Adjacent Properties - Methods shall be employed to prevent any damage to adjacent properties.

2. SWPPP Site Plan Requirements - SWPPP site plan(s) shall be submitted along with other SWPPP State permit required documents.

The discharger shall ensure that the SWPPP for the project site is developed and amended or revised by a Qualified SWPPP Developer (QSD). The SWPPP shall be designed to address the following:

- a.** All pollutants and their sources, including sources of sediment associated with construction, construction site erosion and all other activities associated with construction activity are controlled;
- b.** Where not otherwise required to be under Regional Water Board permit, all non-storm water discharges are identified and either eliminated, controlled, or treated;
- c.** Site BMP's are effective and result in the reduction or elimination of pollutants in storm water discharges and

authorized non-storm water discharges from construction activity to the BAT/BCT standard;

- d. Calculations and design details as well as BMP controls for site run-on are complete and correct, and
- e. Stabilization BMP's installed to reduce or eliminate pollutants after construction are completed.
- f. Phasing of Erosion Control Measures - The Engineering Division may require phasing of the SWPPP plan(s) to ensure that all necessary erosion control measures are taken during separate phases of construction. As an example, this may require the Developer to construct sediment traps and basins during the first phase of grading operation.
- g. To demonstrate compliance with requirements of the SWPPP, the QSD shall include information in the SWPPP that supports the rational used in selecting BMP's including supporting soil loss calculations, if necessary, conclusions, selections, use, and maintenance of BMP's
- h. The discharger shall make the SWPPP available at the construction site during working hours while construction is occurring and shall be made available upon request by State or City inspectors. When the original SWPPP is retained by a crew member in a construction vehicle and is not currently at the construction site, current copies of the BMP's and map/drawing will be left with the field crew and the original SWPPP shall be made available via request by radio/telephone.

3. SWPPP Control Measures Requirements- The following is a list of requirements for erosion and sediment control measures, also referred to as BMPs (Best Management Practices). The following erosion and sediment control requirements shall be part of site specific SWPPP.

- a. All sediment control measures (drain inlet protection, perimeter protection, stabilized construction access, etc.) shall be implemented prior to the commencement of grading operations or other construction activities or as approved by the City Engineer. Grading during the wet season should be minimized.
- b. An adequate supply of erosion and sediment control materials (fiber rolls, blankets, mats, straw bales, silt fencing, etc.) shall be stored onsite throughout the course of construction and made available for maintenance and repair work.

- c. Straw, when used, shall be broadcasted, or hand distributed, at a rate of 4000 pounds per acre. Straw shall be anchored to soil surface by “punching”, “pressing”, or by tacking down using a tackifier.
- d. Slopes steeper than 4:1 and adjacent to the City right-of-way, flood plains, natural drainages, park land or designated open space shall be broadcast seeded and covered with a blanket material grade appropriate to the steepness and length of the slope. Alternative methods shall be approved by the Engineering Division.
- e. All areas of disturbed soil, regardless of slope, shall be protected for erosion control. For measures approved by the City for erosion control, see the City of Roseville’s Stormwater BMP Guidance Manual for Construction, and the State of California NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities.
- f. Where required, broadcast seed shall be applied as follows:

Blando Brome	12lbs/acre
Rose Clover	9lbs/acre

Areas with sandy, dry soil shall be:

Zorro Annual Fescue	12lbs/acre
Rose Clover	9 lbs/acre

16-20-0 fertilizer or equivalent shall be applied at the rate of 500 pounds per acre. If hydro-seeding/mulching is used, seed quantities shall be increased by 30 percent.

For areas adjacent to City designated open space, perennial streams, creeks, or environmentally sensitive areas, native seeds shall be used. Approved seed blends are listed below. Seed blends and proposed alternate seed blends shall be submitted to the stormwater or construction inspector for approval prior to application.

Dry Mix

Botanical Name (Common Name)	Ecotype/Orgin	Approximate Live Seeds/Bulk Lb.	Approximate Live Seeds/Sq. foot	Bulk Lb/Acre
Nassella pulchra (purple needlegrass)	Yolo County: Stone Ranch	50,000	14.9	13.00
Nassella cernua (nodding needlegrass)	Tehama County: Inks Creek	115,000	15.8	6.00
Bromus carinatus (California brome)	Amador County: Sierra Nevadas	47,000	5.4	5.00
Poa secunda (one sided bluegrass)	Yolo County: Fiske Creek	500,000	11.5	1.00
Vulpia microstachys (three weeks fescue)	Yolo County: Fiske Creek	350,000	16.1	2.00
Melica californica (California melic)	Yolo County: Fiske Creek	240,000	16.5	3.00
Total:			63.7	30.0

Swale/Wet Mix

Botanical Name (Common Name)	Ecotype/Orgin	Approximate Live Seeds/Bulk Lb.	Approximate Live Seeds/Sq. foot	Bulk Lb/Acre
Nassella pulchra (purple needlegrass)	Yolo County: Stone Ranch	50,000	9.2	8.00
Bromus carinatus (California brome)	Amador County: Sierra Nevadas	47,000	5.4	5.00
Vulpia microstachys (three weeks fescue)	Yolo County: Fiske Creek	350,000	8.0	1.00
Elymus glaucus (blue wildrye)	Butte County: Ilano Seco Ranch	120,000	11.0	4.00
Leymus triticoides (creeping wildrye)	Yolo County: Yolo Bypass	125,000	11.5	4.00
Hordeum brachyantherum (meadow barley)	Yolo County: Yolo Bypass	75,000	6.9	4.00
Elymus trachycaulus (slender wheatgrass)	Yolo County: Willow Slough	69,000	6.3	4.00
Total:			52.0	30.0

These are broadcast seeding rates. To get the hydroseeding rate, multiply the rates by 1.5 to get 45/lbs. per acre.

- g. No grading or trenching, except as required for erosion or sediment control, shall occur within 35 feet from the edge of perennial streams, creeks, or environmentally sensitive areas between October 1 and April 30 unless approved by the Engineering Division.

- h.** All erosion and sediment control measures shall be checked prior to, and following all storms to ensure that all measures are functioning properly.
- i.** Sediment and trash accumulated on-site, in drainages, or detention basins shall be removed and properly discarded as soon as possible.
- j.** Construction activities 3030 throughout the year shall have erosion and sediment control measures in place or capable of being placed within 24 hours. The Contractor shall ensure that the construction site is prepared prior to the onset of any storm. Per the States General Construction Permit, a Rain Event Action Plan (REAP) shall be reviewed and completed by a qualified SWPPP practitioner (QSP) 48 hours prior to a rain event.
- k.** The Contractor shall establish a specific site within the development for maintenance and storage of equipment or any other activity that may adversely contribute to the water quality of the runoff. This area shall include secondary containment measures such as, but not limited to weather protected bins, awnings, tubs for liquid pollutant containers, and spill kits, etc. This area shall be managed to prevent spills and storm water from coming into contact with pollutants, and shall be restored to an acceptable condition upon completion of project.
- l.** Hydro-seeding and hydro-mulching may be considered as an alternative to broadcast straw subject to the Engineering Division's approval based on a review of the existing site conditions (location, slopes, proximity to streams) and time of year.
- m.** SWPPP shall define erosion and sediment control measure objectives, and clearly identify control measure selections.

G. Mitigation Monitoring Requirement - All mitigation measures and mitigation monitoring measures as required to mitigate environmental impacts shall be complied with. The Developer is responsible for monitoring all mitigation measures and shall submit to the Planning Department a letter certifying compliance with such measures.

H. Certifying Pad Elevations - Upon completion of the grading and prior to acceptance of the subdivision improvements or issuance of building permits by the City, the Consulting Engineer shall verify the final pad elevations. The elevations shall be verified at the center and

the corners of each pad. Pad grades shall be certified to an accuracy of 0.10 feet.

A signature block (see Section 11-4G), certifying that final graded elevations in the field are the same as those shown on the plans, shall be included on the tracings of the subdivision grading plans. The Consulting Engineer shall sign the signature block, certifying to the above, and shall provide three (3) sets of record (as-built) Grading Plans to the City Engineer.

- I. Maintenance of Access to Utility Facilities** - Continuous, suitable access shall be maintained during all stages of construction to any facility owned or operated by a utility/district providing essential services (i.e. sanitary sewer, water, drainage, electricity, gas, telephone, etc.).

SECTION 12

SOUND BARRIER DESIGN

- 12-1 GENERAL** – Existing and projected noise levels adjacent to new residential developments shall not exceed 60 dba at a point (4) feet above finished floor level. Sound barriers shall be constructed, if necessary, to achieve this level.
- 12-2 SOUND STUDIES** – When required by the City Engineer, a Sound Study, prepared by an Acoustical Consultant, shall be submitted to the Development Services Department prior to approval of the Improvement Plans. Submission of this study may be required when installation of a sound barrier is required as a condition of approval of a project or when the City Engineer feels that existing or projected noise levels may necessitate the installation of such a barrier. The Sound Study shall include technical information and computations to support the recommendation.
- 12-3 LOCATION REQUIREMENTS** – Sound barriers shall be located along the rear and side property line of residential developments adjacent to freeways, arterials, collectors, and industrial streets. The wall shall be located in the public easement or right-of-way.
- 12-4 DESIGN REQUIREMENTS** – Sound barriers shall be designed in accordance with landscaping requirements for the area in which the project is located. Walls shall be designed for a minimum longevity of 50 years. Walls shall have a minimum height of six (6) feet measured from the highest adjacent grade elevation. Footings and reinforcing steel shall be designed for a height of six-feet in height plus the retaining wall height, as applicable. All soundwalls shall be designed for 75 MPH wind loads at exposure Level C. Structural calculations shall be provided to the Development Services Department for all proposed soundwalls. All construction details for sound barriers, including locations and limits, shall be shown on the improvement plans.

Anti-graffiti coating shall be applied to the City side of the soundwall. Coating shall be as specified in the Construction Standards 71-5F.

SECTION 13

BIKEWAYS

13-1 GENERAL – The City of Roseville bikeway standards are designed to insure that transportation and recreational bikeways are constructed in a manner that would provide a safe and comfortable use by both bicycles and pedestrians. Bikeways shall be designed to enhance safety and reduce maintenance.

13-2 DESIGN CRITERIA – All bikeway design shall conform to the latest editions of the following documents:

- The American Association of State Highway and Transportation Officials “Guide for the Development of Bicycle Facilities
- The State of California Department of Transportation (Caltrans) Highway Design Manual Chapter 1000, “Bikeway Planning and Design”
- The California Manual on Uniform Traffic Control Devices (California MUTCD) for Streets and Highways (FHWA’s MUTCD 2003 Edition, as amended for use in California)
- These standards and any applicable Specific Plan guidelines which pertain to various areas of the City. Specific Plan Guidelines are available from the Planning Department.

All Bikeway improvement plans shall be prepared per the requirements of Section 3, “Plan Sheet Requirements”, of these standards and shall be drawn at a scale no smaller than 1 inch = 40 feet. The plans shall show all existing and proposed grades, sidewalks, landscaping, fences, guardrails, utilities, street lights, traffic signs, and any other structure which may be impacted by revisions to grading.

13-3 PLAN ACCEPTANCE – Prior to construction of any bikeway related improvements, a complete set of bikeway improvement plans must be accepted by the Development Services Engineering Division. See Section 2, “General Requirements”, of these standards for submittal requirements of bikeway improvement plans.

13-4 CLASS I BIKEWAYS (Bike Paths) – Class I bike paths are facilities located in separate right-of-way, for the exclusive use of bicycles and pedestrians with minimal cross flow by motor vehicles. Sidewalks are not considered Class I facilities. Sidewalks, including Class IA Sidewalks, Bikeways, are not subject to this Standard. See Section 7, “Streets”, of these Standards for design requirements of sidewalks and pedestrian walks.

A. Width – The minimum paved width for a two-way bike path shall be 10 feet. The minimum width of a one-way bike path shall be 5 feet. In each case, per BK-1, a minimum of 2 feet wide graded shoulders shall be provided adjacent to the pavement. One shoulder shall consist of Class 2 Aggregate Base material and one shoulder shall consist of decomposed granite. Where profile grades are 4% or more, the decomposed granite may be stabilized with lime/fly ash or cement treatment. Otherwise, Class 2 Aggregate Base material may be considered for both shoulders.

B. Clearance to Obstructions – A minimum of 3 feet of horizontal clearance to obstructions, including post and cable fencing, retaining walls, buildings, and other permanent improvements, shall be provided adjacent to the pavement where the downgrades are less than 4% and a minimum of 5 feet from the edge of pavement where downgrades exceed 4%. If a bike path is paved contiguous with a continuous fixed object, such as a block wall, a 4-inch white edge line, 2 feet from the fixed object, is required.

Manhole covers shall be located within the bike path's shoulder area, with preference given to the Class 2 Aggregate Base shoulder. The Class 2 Aggregate Base or decomposed granite material shall be extended 1 foot beyond the rim of the manhole cover.

In conditions where the bike path is located adjacent to creeks, ditches, or down-slopes greater than 3 feet horizontal to 1 foot vertical, a minimum shoulder width of 5 feet from the edge of pavement to the top of the slope is required.

The clear width on structures between railings shall be not less than 12 feet, with a preferred width of 14 feet.

The vertical clearance to obstructions across the clear width of the bike path shall be a minimum of 12 feet when Fire Department access is required, otherwise 9 feet, including bike paths placed beneath bridge structures. The minimum elevation of the path shall coincide with the 2-year water surface elevation.

C. Signing and Delineation – For applications and placements of signs, see the California Manual on Uniform Traffic Control Devices (California MUTCD) for Streets and Highways, Section 9B.01 and figure 9B-101. For pavement markings guidance, see section 9C.03.

The sign sizes for shared-use paths shown in Table 9B-1 of the California MUTCD are preferred for all Class I bike paths. The minimum sign sizes for shared-use paths shall be used only for signs installed specifically for bicycle traffic applications. The minimum sign

sizes for bicycle facilities shall not be used for signs that are placed in a location that would have any application to other vehicles.

All Class I bike paths shall be striped per BK-2 or at intervals determined by the City Engineer.

Guide signs to roadways, parks, and other points of interest shall be provided at trail junctions and as determined by the City Engineer.

All stripes and pavement markings for Class I bike paths shall be constructed with paint per Section 84-3 of the CalTrans Standard Specifications.

D. Intersections with Roadways – Bicycle path intersections and approaches should be on relatively flat grades. Stopping sight distances at intersections shall be met for vehicle traffic per section 7-12, Design Site Distances, of these design standards and adequate warning should be given to permit bicyclists to stop before reaching the intersection, especially on downgrades. Curb ramps shall be installed with the same widths as the bicycle path.

When crossing an arterial roadway, the crossing should either occur at the pedestrian crossing or at a location completely out of the influence of any intersection to permit adequate opportunity for bicyclists to see turning vehicles.

Mid-block crossing shall be considered on a case by case basis by the City Engineer. In these instances, right-of-way should be assigned by devices such as stop signs or traffic signals which can be activated by bicyclists. Grade separations shall also be considered at the discretion of the City Engineer.

E. Entry Control – Entry points to bike paths shall be designed to prevent unauthorized vehicle entry. The approach to prevent unauthorized vehicle entry is:

- a. At a minimum, post signs identifying the entry as a bicycle path with regulatory signs prohibiting motor vehicle entry per Section 9B of the California MUTCD, or as approved by the City Engineer.
- b. Design the path entry so it does not look like a vehicle access and makes Intentional access by unauthorized users more difficult. Dividing a path into two one-way paths prior to the intersection, separated by low plantings or other features not conducive to motor vehicle use, can discourage motorists from entering and reduce driver error.

F. Separation Between Bike Paths and Roadways – Bike paths immediately adjacent to roadways and within medians are not recommended. Bike paths closer than 5 feet from back of curb shall include a physical barrier to prevent bicyclist from encroaching onto the roadway. Suitable barriers could include dense shrubs or other materials approved by the Development Services, Planning and Parks and Recreation Departments.

G. Design Speed – The minimum design speed for bike paths is 20 mph. When a downgrade exceeds 4%, the minimum design speed for the section of bike path is 30 mph.

H. Grades – The maximum grade rate recommended for bike paths is 5%. However, steeper grades can be allowed for short segments.

When using grades steeper than 5%, the following grade restrictions and grade lengths are required:

5-6%	for up to 800 feet
7%	for up to 400 feet
8%	for up to 200 feet

The bike path segment immediately following a positive grade of 8% is required to have a maximum grade of 5%. All bike paths segments with grades steeper than 5% shall be posted with the appropriate warning signs.

Any bike path segments designed with a grade greater than 8% will require approval by the City Engineer and Parks and Recreation Director.

I. Horizontal Alignment and Super elevation – A 2% cross slope is required on tangent sections. Bike paths super elevations rates may vary from a minimum of 2% to ensure drainage to a maximum of 5%.

The minimum distance for a transition from a 2% cross slope is 75 feet per one percent change in superelevation.

The minimum radius of curvature can be derived from figure 1003.1C of the CalTrans Highway Design Manual. The minimum radius with any given combination of design speed, rate of superelevation, and friction factor shall not be less than 30 feet. The minimum radius of curvature may be increased to 45 feet if the bikeway will also serve to function as a utility maintenance access.

J. Stopping Sight Distance – The minimum stopping sight distances for various design speeds and grades can be determined from figure 1003.1D of the CalTrans Highway Design Manual. For two-way bike

paths, the descending direction grade and design speed will control the design.

K. Lateral Clearance on Horizontal Curves – The minimum clearances to line of site obstructions for horizontal curves can be determined from the figure 1003.1F of the CalTrans Highway Design Manual.

Bicyclist frequently ride abreast of each other on bicycle paths, and on narrow bicycle paths, bicyclists have a tendency to ride near the middle of the path. For these reasons, and because of the serious consequences of head-on bicycle accident, lateral clearances on horizontal curves should be calculated based on the sum of the stopping sight distances for bicyclist traveling in opposite directions around the curve. Where this is not possible or feasible, consideration should be given to widening the path through the curve, installing a solid yellow centerline, installing a curve warning sign, or combination of these alternatives.

L. Vertical Curves – The minimum allowable vertical (sag or crest) curve length at the intersection of two grades shall be 50 feet; however, vertical curves may not be omitted where the algebraic difference in grades does not exceed 2.0 percent. The minimum lengths of crest vertical curves can be determined from figure 1003.1E of the CalTrans Highway Design Manual. When vertical curves are required, they shall provide for adequate sight distance based in the minimum design speeds specified in paragraph 13-4F of these standards.

M. Structural Section – Bike path structural section shall be a minimum of 2 inches of Type A asphalt concrete on 4 inches of class 2 aggregate base. In those cases where Class 1 bikeways will be accessed by maintenance and/or emergency response vehicles the bikeway shall be capable of supporting a minimum gross vehicular weight of 30,000 pounds. Based on an assumed Traffic Index equal to 4.0 for Class 1 bikeways the table shown below identifies the appropriate structural sections to support a gross vehicular weight of 30,000 pounds:

R-value Range	Bikeway Structural Section
25<	2" AC/8" AB
25-40	2" AC/6" AB
>40	2" AC/4" AB

If soils analysis along the bike path identifies an R-value less than 10, the structural section shall be modified as necessary, by the recommendation of a geotechnical engineer, to support 30,000 pounds and meet the Traffic Index Requirement 4.0. Soils tests shall be taken every 1,000 feet along the bike trail alignment or as directed by City Engineer.

N. Drainage – Bike paths constructed within cut-slopes shall have a drainage ditch of suitable dimensions along the uphill side to intercept the hillside drainage. Where necessary, drain inlets and drain pipes or other acceptable conveyance systems shall be provided to carry intercepted water across the bike path. Bike paths constructed on top of fill slopes shall have drainage ditch of suitable dimensions along the downhill side to intercept the trail's drainage. Where necessary, drain inlets and drain pipes or other acceptable conveyance systems shall be provided to carry the intercepted water over the fill slope as to control erosion of the slope.

O. Access Points – Access points with a width of 20 feet shall be placed in minimum intervals of 750 feet and the cable must be coated with yellow plastic to designate access. A Roseville Parks and Recreation Department padlock must be placed on both ends of access.

P. Temporary Bike Path Closures – Should a bike path need to be closed temporarily, at a minimum the following measures shall be taken: Signage warning users of the trail shall be provided on each side of closure. Safety cones and orange safety fencing shall be provided as appropriate. Other measures may be taken as determined by the Public Works and Parks and Recreation Departments.

Q. Bike Bridges – Bridge design shall conform to the requirements for pedestrian and bicycle bridges within the latest edition of the California Department of Transportation (CalTrans) Bridge Design Specifications.

The minimum width of a bike path bridge is 12 feet with a minimum vertical clearance of 12 feet when Fire Department access is required, otherwise 10 feet. A straight-line approach of 35 feet is required on each side of the bridge.

All bicycle bridges shall be designed for a fire access use and maintenance vehicles, capable of supporting a minimum gross vehicular weight of 30,000 pounds. All bicycle bridges shall have the maximum gross vehicular weight rating posted on each approach.

Bicycle bridges may be designed to support a gross vehicular weight of less than 30,000 pounds but shall include maintenance vehicle traffic loading with the approval of the Fire Department and City Engineer. In cases where the bike trail is not required for fire access use and bridge loading is less than 30,000 pounds, the bike trail shall be designed to accommodate a fire vehicle turn-around area on each side of the bridge and/or provisions for alternative access.

R. Lighting – Lighting is not required along bike trails. However, lighting may be required through underpasses, tunnels, roadway

intersections, mid-block crossings, and whenever security could be a problem and at the City's discretion.

Depending on the location, average maintained horizontal illumination levels within underpasses and tunnels of 50 foot-candles should be considered. Where special security problems exist, higher illumination levels may be considered. All lighting shall be designed with appropriate shielding to prevent unnecessary glare and resistant to vandalism.

Light standards should meet the recommended horizontal and vertical clearances as specified within Section 13-4B of these standards. Luminaries and standards should be at a scale appropriate for a pedestrian on bicycle path.

13-5 BIKE PATHS IN FLOODPLAINS – When a bike path is to be located in the City's Floodplain, the path shall be designed to be no more than one (1) foot below the 10-year storm event water surface elevation (10-WSE). Exceptions to this requirement may be allowed where the path goes under existing bridges to accommodate minimum vertical clearance. At these crossings, the path shall have an elevation at least as high as the 2-year storm event water surface elevation (2-WSE). All segments of the path that are below the 10-WSE shall be Portland Cement Concrete, or other approved material, with toe protection to prevent the path from being undermined during flood events. All segments of the path that are more than 45 degrees to the directional flow of the water shall be Portland Cement concrete, or other approved material, and shall have armored embankments with toe protection to prevent the path from being undermined during flood events.

13-6 BIKE BRIDGES IN FLOODPLAINS – When a bike or pedestrian bridge is to be placed in the City's Floodplain, the minimum elevation of the bridge deck shall be at or above the 10-WSE. Bridge railings shall be designed to sustain the 100-year flood event without damage and without human intervention. Hydraulic and structural calculations shall be based on the assumption that the bridge (with railings) is solid, not assuming that water will pass through the rails.

Bridge railings shall be a minimum of 54" high, and shall have a toe board at the base of the guardrail.

All material used on the bridge shall be water resistant.

A letter of map revision (LOMR) may need to be submitted to FEMA for approval, as determined by the Department of Public Works.

Approach ramps to the bridge shall be armored to allow for cross flow around the bridge with out damage to path. Where feasible, the approaches to the bridge shall contain a dip in the profile (lower than the

bridge) to facilitate the water to flow around the bridge instead of directly over it. All portions of the path that are more than 45 degrees to the flow path, shall be Portland Cement Concrete, or other approved material, and shall have armored embankments with toe protections to prevent the path from being undermined during flood events.

- 13-7 CLASS IA SIDEWALK BIKEWAYS** – Class IA sidewalk bikeways are typically located along major streets and separated from the normal vehicle lanes. They are primarily sidewalks, paseos, etc, that are wider than normal to accommodate both pedestrians and bicycles.

The design of Class IA sidewalk bikeways shall follow the design standards for pedestrian walk construction located within Section 7-7 of these standards. The location and width of Class IA sidewalk bikeways shall follow the applicable Specific Plan guidelines which pertain to various areas of the City. Specific Plan Guidelines are available from the Planning Department.

- 13-8 CLASS II BIKEWAYS** – Class II bikeways (bike lanes) shall be provided within all collectors and arterial roadways as shown per the cross sections for various roadways within these Design Standards.

A. Signing and Pavement Markings – Details for signage and pavement markings for Class II bikeways are found in the California MUTCD, and within the standard drawings for streets within these Design Standards.

B. At-grade Intersection Design – Details for design of Class II bikeways at intersections are found within the standard drawings of these Design Standards.

Bicycle-sensitive detectors, signs, and pavement markings for traffic signal actuation shall be included within the traffic signal design for all intersections requiring traffic signals and at the discretion of the City Engineer per Sections 4D.104 & 105 of the California MUTCD.

- 13-9 CLASS III BIKEWAYS** – Class III Bikeways are on-street routes designated by signs or permanent markings per the California MUTCD, and are shared by motorists. The locations of Class III bikeway route shall follow the Bicycle Master Plan and applicable Specific Plan guidelines which pertain to various areas of the City. Specific Plan Design Guidelines are available from the Planning Department.

SECTION 14

RECYCLED WATER INFRASTRUCTURE DESIGN

14-1 DETERMINATION OF USE - The City shall determine whether a given parcel or site will be furnished with recycled water or potable water for non-potable use. The determination shall be in accordance with the standards of treatment and water quality requirements for the proposed use. Guidelines are set in Title 22, Chapter 4 of the California Administrative Code, with the intent of the City to protect the public health, and with the availability and/or feasibility of making recycled water available.

14-2 DESIGN INFORMATION - Before design, the Developer, or his representative, should obtain the following from the City of Roseville Environmental Utilities Department:

- A.** Approval to use recycled water for the proposed system, as stated in the previous section.
- B.** Determination of on-site storage of recycled water will be required for peak demand use.
- C.** Verification of locations and size of proposed points of connection.
- D.** Design pressures and available flow to the proposed facilities.

14-3 CURRENT STANDARDS - Pertinent and current requirements of the following agencies or standards shall be complied with. In case of conflicting design criteria, standards set forth by the City of Roseville, as established herein, shall govern:

- A.** City of Roseville Rules and Regulations for use of recycled water.
- B.** City of Roseville Design and Construction Standards
- C.** Title 22, Chapter 4 of the California Administrative Code regarding recycled water use.
- D.** Title 17, Chapter 5, Subchapter 1 of the California Administrative Code regarding cross-connections and backflow prevention.
- E.** Guidelines for Use of Recycled Water, State of California Department of Health Services.
- F.** Guidelines for Distribution of Non-potable Water, California – Nevada Section, American Water Works Association (AWWA).

- G.** Manual of Cross Connection Control, State of California Department of Health Services.
- H.** Placer County Department of Environmental Health – regulations pertaining to recycled water.
- 14-4 RECYCLED WATER SUPPLY QUALITY** - The City of Roseville produces disinfected, tertiary-treated recycled water consistent with Title 22, Chapter 4 of the California Administrative Code.
- 14-5 OFF-SITE RECYCLED WATER FACILITIES** - Normally consists of those facilities which are or will be owned, operated, and maintained by the City of Roseville.
- 14-6 PRIVATE ON-SITE RECYCLED WATER FACILITIES** - Facilities downstream of a recycled water meter owned, operated, and maintained by the property owner. The on-site recycled water facilities shall be subject to rules and regulations set forth by the City for recycled water.
- 14-7 WATER SUPPLY PRESSURE** - Minimum operating pressure of 50 PSI shall be maintained at service connections to the distribution system.
- 14-8 TRANSMISSION SYSTEM DESIGN** - Sizing and layout of transmission mains shall conform to the Recycled Water Master Plan of the City of Roseville and as outlined herein.
 - A. Hydraulic Analysis** – A Hardy-Cross network hydraulic analysis shall be provided to the Environmental Utilities Department upon request.
 - 1.** The hydraulic analysis submitted shall include two copies of the following items:
 - 1a.** The data input files, as well as the analysis results on electronic format.
 - 1b.** Information on the development (e.g. type of development, number of acres, number of units, etc.).
 - 1c.** Data sheets outlining all assumptions including, but not limited to, method used to assign demands to corresponding junction nodes, proposed irrigation demands, and source HGLs used.
 - 1d.** Map identifying pipe and node numbers and their locations.
 - 1e.** The name and version of software used for the analysis.
 - 1f.** Elevations of junction and source nodes. (The elevations used in the network hydraulic analysis shall be based on a project grading plan or the anticipated final elevations. If the final

grading plan deviates significantly from the elevations used in the analysis, a revised analysis will be required.)

- 1g.** Staging or phasing of the development.
- 1h.** Appropriate off-site demands.
- 2.** The Hazen-Williams formula shall be used in the analysis of the system. The roughness factor shall be as follows:
 - 2a.** C=130 for all new cement-line, PVC C-900, and ductile iron pipes.
 - 2b.** C=130 for all existing pipes greater or equal to 16 inches in diameter.
 - 2c.** C=120 for all existing pipes less than or equal to 12 inches in diameter.
- B. Specifications** - Technical specifications for transmission mains shall be submitted with improvement plans.
- C. Transmission Main Size** - All transmission mains shall be sized to provide total peak demand of all customers served. Peak demand flow is determined as follows:
 - 1.** Peak day demand for irrigation customers shall be determined as a July day demand.
 - 2.** Peak demand flow for customers with on-site storage shall be peak day as a constant flow rate over a 24-hour period
 - 3.** Peak demand flow for customers without on-site storage shall be no less than peak day as a constant flow rate over a 9-hour period. Maximum design velocity in the transmission and distribution systems shall not exceed 5 feet per second. Standard acceptable pipe sizes are 6, 8, 12, 24, 30, 36, 42, 48, and 54 inches.
- D. Transmission Main Location** - All transmission mains shall be installed within public rights-of-way and easements. In every instance where a recycled water main is to be installed in a public right-of-way or easement, the Environmental Utilities Department Director shall be contacted for preferred location.
 - 1.** Mains shall be located 3 feet from the curb and gutter on the southerly and easterly side of the street. If conflicts exist at this location, then the main may be installed within an easement immediately adjacent to and behind the property line fronting the

public right-of-way, subject to approval of the Environmental Utilities Department Director.

2. If it necessary to install a recycled water main outside of the public right-of-way, an easement dedication to the City shall be required. Recycled water mains shall be centered within their easement. Easements shall be located completely on one side of a property line or fence. Dedicated easements shall be clear of all permanent structures, building eaves, roof lines and the future trucks of large tree species. Temporary construction easements of adequate size shall also be provided. The easement width shall be the greater of the following:
 - 2a. Minimum width of easement shall be 15 feet.
 - 2b. All easements shall have a minimum width equal to the required trench width according to the standard detail for trench backfill plus 2 additional feet of width for every 1 foot of depth of the pipe as measured from bottom of the pipe to finish grade. All recycled water lines shall be centered within their easement.
3. Recycled water mains located between lots shall require an access easement or pedestrian walkway as determined by the Environmental Utilities Department Director.
4. Recycled water mains shall maintain a minimum horizontal separation of 10 feet between sanitary sewer lines and potable water mains. Recycled water mains shall be higher than sewer mains and below water mains. On crossings, the recycled water line shall be a minimum of 1 foot above the sewer line and 1 foot below water mains. In cases where the recycled water main must cross under the sewer main or service, or over water mains, the recycled water line shall be ductile iron to a point 5 feet each side of crossing and be concrete-encased.
5. When crossing a sanitary sewer force main, the recycled water main shall be installed a minimum of 1 foot above the sewer line, and be of ductile iron a minimum of 5 feet on each side of the force main.
6. No parallel utilities shall be placed within 5 feet of each side of a recycled water line.
7. Mains shall maintain a minimum cover of 48 inches and a maximum depth of 60 inches as measured from gutter flowline, unless otherwise specified by the Environmental Utilities Department Director.

8. Recycled water mains shall maintain vertical separation of 12 inches between storm drains and other dry utilities. The vertical clearance may be reduced to 6 inches with the approval of the Environmental Utilities Director.
9. Recycled water mains under large structures such as culverts and large diameter storm drains shall be ductile iron and installed within a casing per these standard. The casing shall extend beyond the structure a minimum of 5 feet or the depth of the water main on each side.

E. Main Line Fittings and Connections - Recycled water transmission and distribution systems shall be designed with mechanical restraint systems to prevent thrusting forces. All fittings shall maintain a minimum of 18 feet of restrained pipe into the fitting in all directions. Thrust blocks shall only be used in special cases where approved by the Environmental Utilities Department Director. All restrained joint systems shall be shown in plan and profile and on the master recycled water plan. Design of restrained systems shall follow standard engineering practice. The Environmental Utilities Department Director shall approve the design prior to installation. Any deviation from these requirements will not be permitted without approval of the Environmental Utilities Director.

F. Recycled Water Transmission Main and Appurtenances

1. **Valves** - The distribution system shall be equipped with a sufficient number of valves so that no single shutdown will result in isolating a transmission main. Valves shall also be spaced at intervals no greater than 2,500 feet. Valves shall be located such that any section of main can be shut down without going to more than three locations to close valves. All tees shall have three valves and all crosses shall have four valves. A valve shall be installed on services immediately off the main and on the transmission main immediately downstream of the service.
2. **Inspection Manholes** - Inspection manholes shall be placed every 2,000 feet. A minimum of one inspection manhole shall be located between two valves unless otherwise approved by the Environmental Utilities Director. Inspection manholes on Ductile Iron Mains are not required.

G. Booster Pump Stations - All booster pumps stations shall be subject to criteria established and approved by the Environmental Utilities Department Director.

H. Air and Vacuum Valves and Blow-Offs - Air and vacuum valves shall be installed at all localized high points in the transmission main per standard drawings. A blow-off assembly, conforming to the

Standard Drawings, shall be installed on all permanent and temporary dead-end runs, as well as each local low point on the transmission main. Wherever possible, the blow-off shall be installed in the street right-of-way a minimum of 5 feet from the curb and gutter. In no case shall the location be such that there is a possibility of back-siphon into the distribution system. A 2-inch blow-off shall be used on mains 12 inches and smaller. A 4-inch blow-off shall be used on lines 16 inches and larger. Blow-offs shall be located within 100 feet of a sewer manhole for discharging during servicing.

- I. Corrosion Protection** – A corrosion protection study shall be included with improvement plan submittals. Corrosion protection facilities shall be identified from the roadway with the curb stamp “CP-RW”
 - J. Warranty Inspection of Recycled Water Stubs:** As a requirement, recycled water stubs are provided to subdivision, existing lots, or parcels, as a courtesy by developers during the construction of backbone infrastructures in streets to prevent cutting up the newly paved streets when the subdivisions are ready to develop. These stubs become an integral part of the recycled water system of the subdivisions, existing lots, or parcels, and subsequently the responsibility of the developers of the subdivisions, existing lots, or parcels, and are therefore imperiled to both construction and warranty inspections. This practice saves future developers construction time and cost that would have otherwise been spent on tie-ins and street repairs and in some instances prevents delays in the event a street has a moratorium. Since these stubs are provided at no cost to future developers, it is our position, hence our policy, that it is the responsibility of contractors to test and repair these stubs, if found damage, prior to tie-ins. A note to this effect shall be placed on the improvement plans.
- 14-9 SERVICE LINES** - Service lines from the recycled water main to the property line or edge of easement shall normally be installed at the time the main is constructed. Services from mains installed in private roads shall extend 2 feet beyond the edge of the pavement. Service line criteria shall be as follows:
- A.** For customers with on-site storage, service lines shall be sized to provide peak day demand as a constant flow rate over a 24-hour period. Service size subject to approval of the Environmental Utilities Department Director.
- For customers where no on-site storage is required (as determined by the Environmental Utilities Department Director), larger service lines shall be provided subject to approval of the Environmental Utilities Department Director.

Maximum design velocity in service lines larger than 4 inches shall not exceed 5 feet per second.

- B.** All services shall be installed with a corporation stop at the main and a curb stop at the property line. A gate valve shall be used when the service is larger than 2 inches.
- C.** The Environmental Utilities Department reserves the right to make all recycled water service taps into existing mains upon application for a permit and payment of the required fees. A note to this effect shall be placed on the plan sheet, which details the area that requires such tapping. Application shall be made to the Environmental Utilities Department at least two weeks in advance of the time the tap is desired. All fees shall be paid prior to application. The Contractor shall do all excavation, backfill and the installation of the remainder of the recycled water service.
- D.** Location of each service line will be determined on a case-by-case basis by the Environmental Utilities Director.
- E.** Separation of recycled water services, sanitary sewer lines, and potable water lines are described in these standards.
- F.** Meters shall be installed on all recycled water services. City staff shall install meters after permits are processed, testing has been completed per the construction standards, and fees are paid.
- G.** The curb shall be stamped with a “RW” at service locations.

14-10 ON-SITE RECYCLED WATER FACILITIES DESIGN - On-site recycled water facilities are defined as those facilities which are owned and operated by private entities. All potential on-site uses of recycled water shall be reviewed by the City of Roseville Environmental Utilities Department. If recycled water is to be used, the facilities shall be designed and constructed in accordance with the provisions set forth herein (Sections 14-10 through 14-23) for on-site recycled water facilities. Where a unique situation exists on-site that is not covered by on-site specifications, off-site specifications may apply as determined by the Environmental Utilities Department Director. In addition, all state and county regulations regarding recycled water use shall be incorporated. Potential uses of recycled water are outlined in Title 22, Chapter 4 of the California Administrative Code. The following notes shall be placed on the improvement plans, and landscape design plans:

City of Roseville Recycled Water Special On-Site Irrigation Notes

1. The installation of the recycled water system shall conform to the regulations for the construction of recycled water systems within the City of Roseville and the accompanying plans and specifications.
2. All on-site recycled and potable water piping installed on this project shall be identified in accordance with the City of Roseville Construction Standards for recycled water infrastructure and the irrigation specifications.
3. City of Roseville Environmental Utilities Department shall be notified two days prior to the start of construction at (916) 774-5750 and each workday thereafter until completion of project for commercial irrigation systems. City of Roseville Parks Department shall be notified two days prior to the start of construction at (916) 746-1758 for landscape corridors and parks. A pre-construction materials inspection must be arranged prior to the start of construction.
4. No facility is to be backfilled until inspected by the City of Roseville Environmental Utilities Department and /or Parks Department Inspector.
5. All recycled water infrastructure, both on-site and off-site, shall be inspected by City of Roseville Environmental Utilities and/or Parks Department. For inspection of recycled water system contact Environmental Utilities at 774-5750 forty-eight (48) hours in advance. Points of inspection are:
 - a. Pre-construction materials inspection.
 - b. Irrigation system installation before lines are covered.
 - c. Pressure testing.
 - d. System cross connection control test.
 - e. System coverage test.
 - f. Signage.
6. All recycled water piping shall be purple colored PVC unless otherwise specified. Where purple PVC is not used, pipe shall be identified (marked) in accordance with the City of Roseville Construction Standards.
7. Marking on the purple colored PVC pipe shall include the following:

“RECYCLED WATER- DO NOT DRINK”. Nominal pipe size. PVC-1120. Pressure rating in pounds per square inch at 73 degrees. ASTM designations such as 1785, 2241, 1672, 3139. Printing shall be placed continuously on two sides of the pipe.

- 8.** All recycled water sprinkler control valves, valve risers, sprinkler risers, and swing joints shall be tagged with identification tags or adhesive labels.
 - a.** Tags shall be weatherproof plastic, 3" x 4", purple color with the words "RECYCLED WATER - DO NOT DRINK" imprinted on one side, and "AGUA Reciclada" on the other side. Imprinting shall be permanent and black in color. Use tags as manufactured by T. Christy Enterprises or approved equal.
 - b.** One tag shall be attached to each valve as follows:
 1. Attach to valve stem directly or with plastic tie-wrap; or,
 2. Attach to solenoid wire directly or with plastic tie-wrap.
 - c.** Recycled water warning labels or stickers that are consistent with City of Roseville Construction Standards for recycled water infrastructure and the irrigation specifications must be attached to all piping not in compliance.
 - d.** All sprinkler heads must be designed for recycled water usage, with purple recycled water warning caps.
 - e.** Sprinkler risers and swing joints shall be identified with purple adhesive 3" x 3" labels. Each label shall state "Recycled Water – Do Not Drink" in English and Spanish.
- 9.** All recycled water control valve boxes shall be purple and have a warning label permanently molded into or affixed onto the lid with rivets, bolts, etc. Warning labels shall be constructed of a purple weatherproof material with the warning permanently stamped or molded into the label. The warning shall contain the following information:
 - a.** "RECYCLED WATER".
 - b.** "DO NOT DRINK" in English and Spanish.
- 10.** Recycled water quick coupling valves shall have a purple rubber or vinyl cover. The cover shall be of a locking type and have a warning permanently stamped or molded as follows: "RECYCLED WATER – DO NOT DRINK" in English and Spanish.
- 11.** Plastic warning tape shall be used on all potable water piping; potable water warning tape shall be a minimum of 3 inches wide and shall run continuously for the entire length of each line. The tape shall be attached to the top of the pipe with nylon tie-wrap banded around the warning tape and the pipe every five feet on center. Warning tape for the potable water piping shall be blue in color with words "CAUTION: POTABLE WATER LINE BURIED BELOW" imprinted in minimum 1-inch high letters, black in color. Imprinting shall be continuous and permanent.

- 12.** All pressure main line piping from the recycled water system shall be installed to maintain 10 feet minimum horizontal separation from all potable water piping. Where recycled and potable water pressure main line piping cross, the recycled water piping shall be installed 12" below the potable water piping OD to OD. Where the recycled water pressure main line must pass above potable water piping, the recycled water piping shall be installed in a class 200 purple colored PVC sleeve which extends a minimum of five feet on either side of the potable water piping. A 12" vertical separation OD to OD must be maintained. Conventional (white) PVC pipe may be used for sleeving material if it is taped with three-inch wide purple warning tape, which reads "RECYCLED WATER-DO NOT DRINK".
- 13.** All pressure main line piping from the recycled water system shall be installed to maintain a ten foot minimum horizontal separation from all sanitary sewer lines. Where recycled and sewer cross, the recycled water piping shall be installed a minimum of one foot above sewer.
- 14.** For on-site recycled water piping, the minimum depth from finish grade to top of pipe shall be as follows:

 - a.** Intermittent pressure lines (All sizes)..... 12"
 - b.** Constant pressure lines 2.5" and smaller..... 18"
 - c.** Constant pressure lines 3" and larger24"
- 15.** Pressure and cross connection testing for On-Site Recycled water systems:

 - a.** All testing of recycled water systems must be performed utilizing a potable water source via a construction water connection per City of Roseville Construction Standards. No recycled water may connect to a recycled water system until all testing is successfully complete.
 - b.** The source of potable water used for testing must have a meter and an approved back flow prevention device. These can be obtained through the City of Roseville.
 - c.** The contractor shall provide a means to plumb in pressure and cross connection testing apparatus at the point of highest elevation, for both potable and constant pressure recycled water systems.
 - d.** The constant pressure recycled water system including all appurtenances shall be tested at 125 PSI at highest point of elevation for 1 hour with no detectable leakage.
 - e.** Pressure testing must be successfully completed prior to cross connection testing.

- f.** The recycled water system shall be tested for cross-connection in accordance with Uniform Plumbing Code Appendix J prior to use.
- g.** For projects being performed in phases, a cross connection test shall be performed on each phase independently before it is put into service. The potable water source used for testing each phase must be independent of other previously completed phases.
- h.** At the time a cross connection test is to be performed, construction on both the potable and the recycled water systems being tested must be complete, and both systems fully operational and functioning as designed.
- i.** Cross connection testing shall be performed on the system by City forces with the assistance of the Contractor. The test will be coordinated through the Environmental Utilities or Parks Department inspector. Forty-eight (48) hours notice is required before the test. Depending on the complexity of the site, a preliminary field meeting may also be required.

16. Coverage test

- a.** Adjust spray heads to eliminate overspray onto native oak areas and into areas not under the control of the customer such as pool decks, private patios, streets, sidewalks, and other similar facilities.

17. Meter Installation

Once the on-site recycled water system has been properly inspected and passed pressure and cross connection testing, a meter may be installed. The meter must be purchased from the City of Roseville and installed by city forces. Coordinate meter purchase and installation with the Environmental Utilities or Parks Department inspector.

- 18.** No connection shall be made to the City's existing recycled water system until the new facilities have been successfully pressure and cross connection tested. Taps to the existing recycled system will be made by City forces only.
- 19.** Failure to comply with the above guidelines violates the City of Roseville design and construction standards for recycled water infrastructure and will result in termination of service until the appropriate corrective steps have been taken.

14-11 DETERMINATION TO USE RECYCLED WATER OR POTABLE

WATER - The City shall determine whether a given parcel or site will be furnished with recycled water or potable water for non-potable use. The determination shall be in accordance with the standards of treatment and water quality requirements for the proposed use. Guidelines are set in Title 22, Chapter 4 of the California Administrative Code, with the intent of the City to protect the public health, and with the availability and/or feasibility of making recycled water available. Additionally, a determination will be made whether the proposed use falls within the guidelines of the City's Master Reclamation Permit.

14-12 DESIGN OF RECYCLED WATER FACILITIES WITH TEMPORARY POTABLE WATER SERVICE

- Where recycled water is not immediately available for use when the design area is ready for construction, and if the City of Roseville Environmental Utilities Department has determined that recycled water will be supplied in the future, the on-site facilities shall be designed to use recycled water. The on-site system shall be designed and constructed to the Environmental Utilities Department construction specifications as set forth herein. Provisions shall be made as directed by the Environmental Utilities Department and these specifications followed to allow for connection to the recycled water facilities when they become available. In the interim, potable water will be supplied to the recycled water facilities through a temporary potable water connection. Until recycled water is available, potable water rates will be charged as set forth in Section 14 of the Roseville Municipal Code. A backflow prevention device acceptable to the local Health Department and the Environmental Utilities Department will be required as long as the on-site facilities area uses potable water. The backflow prevention device shall be downstream of the meter and a part of the on-site facilities. When recycled water becomes available, the backflow prevention device will be removed and the recycled water connection to the on-site facility made.

14-13 BACKFLOW PREVENTION DEVICES - Single check valve backflow preventors shall be required on all recycled water services 1-1/2 inches in diameter and larger. The backflow preventor shall be installed per City standards downstream of the meter. Backflows are not required on recycled water services utilizing booster pumps which incorporate a backflow preventor.

14-14 PROHIBITION AND LIMITATIONS - Design of on-site recycled water facilities shall conform to the following:

A. The recycled water systems shall be separate and independent of any potable water system. Cross-connections between potable water facilities and on-site recycled water facilities are forbidden.

B. Hose bibs on recycled water facilities are forbidden.

- C. Drinking fountains shall be protected from the spray of recycled water in a manner approved by the Environmental Utilities Department Director prior to installation.
- D. Overspray and run-off shall be limited or prevented.
- E. Potable and recycled lines are not to be installed in the same trench.
- F. Recycled water shall not be used for any purpose other than the approved uses as set forth herein.
- G. The system shall be designed to irrigate the design area within the allowable time periods as set forth herein.

14-15 CONTROL OF RUN-OFF AND APPLICATION AREAS - The City encourages new and innovative methods of irrigation. The use of drip or subsurface irrigation may prove effective in the reduction of total water consumption and control of unnecessary run-off by containment of the water to the design area. In accordance with these requirements for control of run-off and for control of the areas to which recycled water is applied, the design of irrigation systems shall conform to following:

- A. The on-site recycled water facilities shall be designed to meet the peak moisture demand of all plant materials used within the design area. The use of moisture sensors is encouraged.
- B. On-site recycled water facilities shall be designed to prevent discharge onto areas not under control of the customer. Semi-circular sprinklers shall be used adjacent to roadways and property lines to confine the discharge from sprinklers to the design area.
- C. The design of the on-site recycled water irrigation facilities shall provide for watering during periods of minimal use of the service area. All on-site recycled water irrigation systems shall be designed to operate between the hours of 9:00 PM and 6:00 AM unless otherwise directed by the Environmental Utilities Department Director.
- D. The total time required to irrigate the design area shall not exceed nine hours in any 24-hour period. Irrigation systems shall be designed to operate within this time requirement.
- E. Recycled water shall be applied at a rate that does not exceed the percolation rate of the soil. Where varying soil types are present, the design of the recycled water facilities shall be compatible with the lowest infiltration rate present. Copies of the Developer's soils test reports shall be made available to the Environmental Utilities Department upon request.

14-16 MINIMUM DEPTH TO TOP OF ON-SITE RECYCLED WATER PIPING - For on-site recycled water piping, the minimum depth from finished grade to top of pipe (minimum cover) shall be as follows:

- A.** Constant pressure lines 3 inches and larger: 24 inches
- B.** Constant pressure lines 2-1/2 inches and smaller: 18 inches
- C.** Intermittent pressure lines excluding drip tube: 12 inches

Where piping is under paved areas, these dimensions shall be considered below sub grade.

14-17 DATA REQUIRED ON PLANS - The following information shall be included on all improvement plan sets for projects with recycled water facilities:

A. Meter Data - All recycled water services shall be metered. The following information shall be supplied for each recycled water meter desired; information is to be provided and shown at each meter location.

- 1.** The meter location (distance from property lines) and size (inches); meter address.
- 2.** The peak flow through the meter (gpm).
- 3.** The (static) design pressure at the meter (PSI).
- 4.** The total area served through the irrigation meter in square feet or acres.
- 5.** An estimate of the yearly water requirement through the meter (acre-feet).

B. Drinking Fountains - Exterior drinking fountains must be shown and called out on the recycled water system plans. If no exterior drinking fountains are present in the design area, it must be specifically stated on the plans that none exist. The potable water lines supplying the drinking fountain must have an identification tape installed as provided in the Construction Standards. All existing and proposed potable water lines within the area of recycled water lines must be shown on the recycled water system plans calling out all required separations. Drinking fountains must be protected from the direct spray of recycled water either by proper placement of the drinking fountain within the design area or the use of a covered fountain approved for this purpose.

C. Irrigation Equipment Legend - For irrigation systems, a legend showing the pertinent data for the materials used in the system shall be recorded on the plans. The legend shall include a pipe schedule listing

pipe sizes, a listing of valve types including quick-coupling valves, and the following information for each type of sprinkler head:

1. Sprinkler radius (feet).
2. Operating pressure (PSI).
3. Flow (gpm).
4. Sprinkler pattern.

D. Recycled Water Warning/Information Sign - Recycled water warning/information signage locations shall be shown on the recycled water system plan. Signs shall be located at all access points to the area of recycled water use. Signs shall also be placed along frontage roads at intervals of every 500 feet or less. The signs shall be installed in accordance with the Construction Standards herein and as required by the Environmental Utilities Director.

14-18 LOCATION - All pressure main line piping from the recycled water system shall be installed to maintain a 10-foot minimum horizontal separation from all potable water piping. Where recycled and potable water pressure main line piping cross, the recycled water piping shall be installed below the potable water piping in a Class 200, purple-colored PVC sleeve which extends a minimum of 5 feet on each side of the potable water piping. Provide a minimum vertical clearance of 12 inches.

All pressure main line piping from the recycled water system shall be installed to maintain a 10-foot minimum horizontal separation from all sanitary sewer lines. Where recycled and sewer lines cross, the recycled water piping shall be installed a minimum of 1 foot above the sewer.

14-19 PLAN SUBMITTAL AND APPROVAL - Plans with recycled water systems, public and private, shall be submitted to the Environmental Utilities Department for review and approval prior to construction. A signature block shall be placed on the cover sheet for Environmental Utilities Department signature.

14-20 INSPECTION - The Environmental Utilities Department shall inspect the construction of on-site facilities per the Construction Standards for recycled water. Notification shall be made two working days in advance of construction by the applicant, owner, or customer. The Environmental Utilities Department shall be called for inspection at (916) 774-5750.

14-21 RECORD DRAWINGS - Record or "As Built" drawings shall be prepared and shall show all changes in the work constituting departures from the original contract drawings including those involving both constant-pressure and intermittent-pressure lines and appurtenances. All conceptual or major design changes including any changes that may be affected by the

requirements of these standard specifications shall be approved by the Environmental Utilities Department before implementing the change in the construction contract. Failure to receive prior approval may result in termination of service.

Upon completion of each increment of work, all required information and dimensions shall be transferred to their record drawings. Facilities and items to be located and verified on the record drawings will include, but are not limited to the following:

- A.** Point of connection.
- B.** Routing of sprinkler pressure lines.
- C.** Routing of all potable water lines both existing and proposed.
- D.** Gate valves.
- E.** Sprinkler control valves.
- F.** Quick-coupling valves.
- G.** Routing of control wires.
- H.** Other related equipment as specified by the Environmental Utilities Department or the owner.
- I.** Sprinkler head manufacturer and model number.

Changes and dimensions shall be recorded in a legible and workman-like manner. Record construction drawings shall be maintained at the job site during construction. The applicant, owner, or customer shall provide a complete set of as-built mylar drawings to the Environmental Utilities Department upon completion of construction. The applicant will also provide as-builts on diskette in .DWF or .DWG electronic format upon request.

Prior arrangements must be made with the Environmental Utilities Department if water service is to be provided prior to as-built blue line submittal. Failure to provide record drawings will result in termination of service.

14-22 CONTROLLER ACCESS - The City of Roseville Environmental Utilities Department reserves the right to have complete access to the controller clocks, for reasons of monitoring and controlling system failures. The applicant, owner, or customer shall provide the Environmental Utilities Department with two sets of all keys necessary for access to the controller clocks within the design area. The keys will then become the property of the

Environmental Utilities Department. The Environmental Utilities Department is not responsible for loss or damage to any controller.

14-23 BLOW-OFF HYDRANTS AND OTHER POINTS OF PUBLIC ACCESS – All on-site recycled water facilities shall be restricted from public access so that the general public cannot draw water from the system. Facilities, blow-offs on strainers, and other such facilities, shall be restricted from public access.

These facilities, both above and below grade, shall be housed in an approved lockable container colored purple. A sign reading “CAUTION: RECYCLED WATER – DO NOT DRINK” shall be installed in accordance with the Construction Standards herein. The Environmental Utilities Department shall approve its size. An alternative acceptable means of restricting public access is the use of valves that operate by means of a recessed key slot or by means of hexagonal heads (such as those typically found on fire hydrants). Other means of restricting public access must be approved by the Environmental Utilities Department.

14-24 Detail Drawings – Details not covered by the Construction Standard Detail sheets shall be shown on the plans.

SECTION 15

SOLID WASTE DESIGN

15-1 INTRODUCTION - These Design Standards shall govern the engineering design of all solid waste (trash) enclosures intended for service by the City of Roseville.

15-2 CURRENT STANDARDS - Pertinent and current requirements of the following agencies or standards shall be complied with. In case of conflicting design criteria, standards set forth by the City of Roseville, as established herein, shall govern:

A. Construction Standards of the City of Roseville, Department of Development Services Department.

15-3 DESIGN CRITERIA - The intent of these criteria is to provide for the serviceability of trash enclosures for commercial and multi-family areas.

A. General – A standard trash enclosure must be provided for each building or business. If a building is to have more than one solid waste customer, then a standard trash enclosure must be provided for each customer. Projects with more than one enclosure must number the enclosures and provide a map of the project showing the location of the enclosures. The type and number of the enclosures will be determined by their intended use (i.e., restaurant, office building, shopping center or small business).

Businesses served by compactors shall have an additional enclosure for recycling.

B. Walls - The trash enclosure shall have walls on three sides. Walls must be six feet in height and shall be constructed as shown on Detail SW-1 or Detail SW-2.

C. Gates - Gates are required on any trash enclosure in line of sight of the public. Gates shall be constructed to provide a minimum 12' opening and shall align with the wall of the enclosure as shown on Detail SW-1. Gates must be designed to open from the front of the enclosure and shall be equipped to be held in an open position with pins in the ground while the dumpster is being serviced. The pin hole shall be a 2 inch pipe, 6 inches deep flush to the ground. Bollards must be installed to prevent gates from opening into any parking spaces or adjacent structures.

D. Vehicle Approach and Floor - The vehicle approach apron and the enclosure floor shall be reinforced concrete a minimum of 6 inches thick. Rebar shall be #4 at 12" on center. Both the approach and the enclosure floor shall be level.

- E. Signs and Striping** – “No parking” signs shall be placed on the gates as well as painted on the approach area per details.
- F. Location** - The enclosure shall be located with the most direct path of travel and access for refuse vehicles. Path of travel shall have minimal conflict with on-site vehicle and pedestrian circulation patterns. Consideration should also be made on increasing the structural section of the on-site pavement along the path of travel of refuse vehicles. The path of travel requires any over head structures to be a minimum of 16' above grade. The trash enclosure shall be located to allow refuse vehicles a straight approach to the enclosure. A 65-foot clear area in front of the enclosure is required. Every effort should be made to prevent locating trash enclosures under overhead power lines. When it is not possible to avoid overhead power lines, then overhead power lines over the bin dumping areas must be a minimum of 26' above grade. The enclosure area shall be located away from service areas and “Loading” zones. Unobstructed access to the trash enclosure shall be provided.
- G. Path of Travel** - The improvement plans shall provide a map showing the proposed path of travel for refuse vehicles to and from the trash enclosure originating at the public roadway. The inside turning radius of the refuse vehicle is 25-feet and the outside radius is 45-feet.
- H. Back-Up Lengths** - Back-up lengths are limited to no more than 100 feet measured from the gate entry of the trash enclosure.
- I. Frontloading Compactor Enclosure** –A frontloading compactor enclosure shall be used by businesses in lieu of the standard trash enclosure. If so desired the approved Frontloading Compactor models shall be Harmony- Power Packer 200 (P200), Marathon's Untouchable VIP (Vert I Pack), or approved equal.
- J. Detail Drawings** – Details not covered by the Construction Standard Detail sheets shall be shown on the plans.

SECTION 11

PURPOSE AND DEFINITIONS

11-1 PURPOSE - The purpose of these Construction Standards is to provide minimum standards to be applied to improvements which are to be dedicated to the public and accepted by the City for maintenance or operation and certain private works, as well as improvements to be installed within existing rights-of-way and easements. This is necessary in order to provide for coordinated development of required facilities to be used by and for the protection of the public. These Construction Standards shall apply to, regulate, and guide construction of streets, highways, alleys, drainage, sewerage, traffic signals, site access, water supply facilities and related public improvements, and shall set guidelines for all private works which involve drainage, grading, and related improvements.

11-2 CONSTRUCTION PRACTICE - Because it is virtually impossible to anticipate all situations that may arise or to proscribe specifications applicable to every situation, any items or situations not included in these Construction Standards shall be constructed in accordance with the latest edition of the State of California Department of Transportation Standard Specifications, hereinafter referred to as the Caltrans Standards Specification. Caltrans Standard Specifications shall apply where not superseded by these Construction Standards. The Contractor shall follow all applicable City, County, State and Federal laws and regulations relating to construction of the improvements or as directed by the City Engineer.

Should conflicts arise between documents, specifications in these Construction Standards and the approved improvement plans shall take precedence over the State of California Department of Transportation Standard Specifications.

The City Engineer may require additional specifications and/or regulations consistent herewith when deemed necessary to protect the health, safety and welfare of the public.

11-3 DEFINITIONS - Whenever the following terms or titles are used in these specifications, or in any document or instrument where these specification govern, the intent and meaning shall be as herein defined:

- A. Applicant** - Shall mean the same as the Developer or his/her consulting engineer working on his/her behalf.
- B. Approved Plans** - Shall mean all plans prepared for construction of improvements, reviewed, approved and signed by the necessary Departments within the City of Roseville.

- C. City** - Shall mean the City of Roseville and its applicable Departments.
- D. City Construction Inspector** – Shall mean the Development Services Inspector representing the City Engineer for all infrastructure improvements within City right of way.
- E. City Engineer** - Shall mean the City Engineer of the City of Roseville, acting either directly or through the staff of the appropriate Divisions of the Development Services Department or their authorized representatives.
- F. Construction Standard Details** - Shall mean the standard construction drawings as set forth in these Design & Construction Standards and included herein, approved by the City Engineer and as amended.
- G. Consulting Engineer** - Shall mean any person or persons, firm, partnerships or corporation legally authorized to practice civil, mechanical, geotechnical, electrical engineering, or other engineering discipline in the State of California who prepares or submits improvement plans and specifications to the Development Services Department of the City of Roseville for approval.
- H. Contractor** - Shall mean any person or persons, firm, partnerships, corporation or combination thereof, licensed to perform the type of work involved, who has entered into a contract with any person, corporation or company, or his/her or their legal representatives, for the construction of any improvements, or portions of any improvements, within the City of Roseville.
- I. Development of Services Department** – Shall mean the Development Services Department of the City of Roseville.
- J. Department of Public Works** - Shall mean the Department of Public Works or Public Works Department of the City of Roseville.
- K. Developer** - Shall mean any persons, firm, partnership, corporation, or combination thereof, financially responsible for the work involved. For City projects, the term Developer shall refer to the Contractor contracted with the City.
- L. Development**- Shall mean the act or process of any construction on properties as well as subdivision improvements.
- M. Electrical Utilities Director** - Shall mean the Electrical Utilities director of the City of Roseville, acting either directly or through the

staff of the appropriate Divisions of the Electric Utilities Department or their authorized representatives.

- N. Environmental Utilities Director** - Shall mean the Environmental Utilities Director of the City of Roseville, acting either directly or through the staff of the appropriate Divisions of the Environmental Utilities Department or their authorized representatives.
- O. Geotechnical Engineer** - Shall mean a professional engineer, licensed by the State of California to practice soils engineering.
- P. Improvements**- Refers to street work, bridges, sidewalk, curb, gutter, driveways, water mains, sanitary sewer mains, reclaimed water mains, storm drainage, traffic signals, public utilities, landscaping, irrigation, parks, fences, walls and other facilities to be constructed or installed by the developer within an existing or future public right-of-way or easement and other improvements which the City of Roseville is responsible for inspection.
- Q. Laboratory** - Shall mean any testing agency or testing firm which has been approved by the Development Services Department.
- R. Certificate of Completion** - Shall mean the acceptance of the constructed improvements by the City Council of the City of Roseville.
- S. Parks and Recreation Director** - Shall mean the Parks and Recreation Director of the City of Roseville, acting either directly or through the staff of the appropriate Divisions of the Parks and Recreation Department or their authorized representatives.
- T. Planning Manager** - Shall mean the Planning Manager of the City of Roseville, acting either directly or through the staff of the appropriate Divisions of the Development Services Department or their authorized representatives.
- U. Director** - Shall mean the Planning Director of the City of Roseville, acting either directly or through the staff of the appropriate Divisions of the Planning Department or their authorized representatives.
- V. Relative Compaction** - The result of processing soil and moisture in the most effective manner to obtain the maximum density and stability (or as a minimum, the required percentage compaction). All relative compaction testing shall reference ASTM D1557-78 test methods.
- W. Soils Report** - Shall mean a report as prepared by any person or persons, firm, partnership, or corporation legally licensed to prepare "Soils Reports" in the State of California.

- X. State** - As used in State Specifications shall mean the City of Roseville.
- Y. State Highway Design Manual** - Shall mean the “Standard Plans” of the State of California, Department of Transportation, (the latest edition which specifies U.S. Customary Units of ounces and inches, currently 1992) and as specified by the City Engineer.
- Z. State Standard Specifications** - Shall mean the “Standard Specification” of the State of California, Department of Transportation, latest edition, including amendments.
- AA. State Traffic Manual** - Shall mean the “California Manual of Uniform Traffic Control Devices”.
- BB. Subdivision Ordinance** - Shall mean the “Subdivision Ordinance” of the City Code as adopted by the City Council of the City of Roseville.
- 1. Substantial Completion** - Shall mean when the approved and permitted project has been constructed in accordance with Section 21-5 MINIMUM REQUIREMENT FOR PRODUCTION HOME BUILDING PERMITS, Items A-K.
- 2. Technology Fee** – This fee is to fund the City’s permitting system and make the technology improvements needed to support the Development Services Department in the processing of building plans, fire permits, improvement plans, maps and entitlements.
- CC. Zoning Ordinance** - Shall mean the “Zoning Ordinance” of the City Code as adopted by the City Council of the City of Roseville.

SECTION 12

CONSTRUCTION AREA TRAFFIC CONTROL DEVICES

12-1.01 DESCRIPTION- Construction area traffic control shall be installed in accordance with the City accepted project specific traffic control plan, the approved improvement plans and specifications, these Construction Standards, the City Improvement Standards, The California Manual on Uniform Traffic Control Devices (CMUTCD), The State of California Standard Plans, and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the Cal Trans Standard Specs and as follows:

1. Construction that inhibits free flow traffic shall not occur between the hours of 4 p.m. to 6 p.m. on Monday through Friday without prior written approval of the Engineer. Traffic control lasting more than one hour will be subject to additional time restrictions set by the City's Traffic Section in order to minimize the impact to the public.
2. At least one lane in each direction shall remain open to traffic unless otherwise approved by the Engineer.
3. Turning movement restrictions require prior approval of the City. A changeable message sign (CMS) shall be posted in the direction of travel affected by the restriction a minimum of three days prior to the implementation of the traffic control at the contractor's expense. Wording and placement of the CMS shall be "ACCEPTED" by the City's Traffic Section prior to installation.
4. Traffic control hours are subject to limitation by the City.
5. Lane closures that affect traffic flow may require night work, changeable message signs, and/or certified flaggers at the contractor's expense. The contractor should consider traffic control included in their cost of work and may contract the City's Traffic Section for requirements prior to bidding a job.
6. Approved road closures require 72 hour advance notification to the City, the public and emergency services. Changeable message signs (CMS's) shall be posted in the directions of travel affected by the closure a minimum of 1 week prior to the implementation of the traffic control at the contractor's expense. Wording and placement of the CMS's shall be "ACCEPTED" by the City's Traffic Section prior to installation.

7. A Red Flash Request form must be submitted 48 hours prior to the time the red flash is needed. Allowable hours of flashing operation will be set by the City's Traffic Section and will require early morning, evening, or night work unless otherwise approved in writing by the City's Traffic Section. The Red Flash Request form is on ST TS-21.
8. Special events shall go through the City's special event process (Contact the City of Roseville's Parks & Recreation Dept. for a Special Events packet). Changeable message signs placed in advance of the event may be required depending upon the size of the event and its impact on traffic movement. Contact the City's Traffic Section for requirements.
9. Special holiday traffic control restrictions are in place from the Thanksgiving holiday through January 3rd each year for various roads throughout the City (ST TS-23).

Traffic Control Plans:

All traffic control plans (including signage) to be per CMUTCD (California Manual of Traffic Control Devices).

The City Construction Inspector or Engineer shall determine the necessity of a formal traffic control plan (TCP) submittal based upon the following guidelines:

A TCP submittal will be required if the TCP is any one of the following:

1. Complicated (to be determined by the City Construction Inspector)
2. Involves a signalized intersection
3. Longer than 12 hours
4. Not detailed in the CMUTCD
5. Involves road closures or detours

Traffic Control Plans require responsible party contract information, hours of operation (which may be restricted by the City), and duration of work.

TCP submittals require the following minimum review times per submittal:

Type of TCP	Min. Review Time
Lane closure	2 days
Intersection Signal Flash	2 days

One-way traffic control	2-4 days
Detour/Road Closure	3-4 weeks

Note that complicated TCP's may require more review time. Traffic control review time should be included in the contractor's work schedule.

The traffic control plan submittal process is as follows:

1. Three copies of the TCP must be submitted to the inspector.
2. The TCP is reviewed by the City Traffic Section and corrections/modifications are made by the contractor as necessary.
3. The City Traffic Section will stamp the TCP as "ACCEPTED" once the plans are to the City's satisfaction.
4. Two copies of the "ACCEPTED" TCP are returned to the inspector one copy each for the inspector and contractor.
5. The Contractor must have a copy of the "ACCEPTED" TCP on site during the entire time the TCP is in place.

Any deviation from the "ACCEPTED" TCP shall be approved by the inspector and may require re-submittal of the TCP for City review. Failure to maintain the TCP may result in shutdown of the project, suspension of inspection services, correction by the City at the Contractors expense, or any combination of the before mentioned.

SECTION 21

CONTRACTOR'S AND DEVELOPER'S RESPONSIBILITIES

21-1 GENERAL - All improvements within City of Roseville rights-of-way, and easements, and onsite private drainage improvements shall be installed in accordance with the approval improvement plans and specifications, the City of Roseville Design and Construction Standards, the Stormwater Quality Design Manual for the Sacramento and South Placer Regions, the City of Roseville Stormwater Quality BMP Guidance Manual for Construction, and the State of California Department of Transportation Standard Specifications, hereinafter referred to as the Caltrans Standard Specifications. The latest Caltrans edition which specifies U.S. Customary Units of ounces and inches shall apply to these Construction Standards with the exception of Traffic Sections 56, 82, 84, 85 and 86, which will conform to the latest edition of the Caltrans Standard Specifications. The public roadway infrastructure improvements shall be designed and constructed in accordance with these Design and Construction Standards and the latest edition of the City's American Disabilities Act (ADA) Transitions Plan. Should there be any discrepancy between these Standards and the ADA Transition Plan with respect to accessibility, the ADA Transition Plan shall have precedence. Caltrans Standard Specifications shall apply where not superseded by these Construction Standards. The Contractor shall follow all applicable City, County, State and Federal laws and regulations relating to construction on the improvements.

21-2 CONTRACTOR'S RESPONSIBILITY - It shall be the Contractor's responsibility for:

- A. Plans** - Perform construction per plans signed and approved by all required City of Roseville Departments. Any additions, deletions or changes to the approved plans shall be submitted to said departments for review and approval prior to construction.
- B. Notification** - The Contractor shall schedule a preconstruction meeting with the Development Services Department (DSD), the Environmental Utilities Departments (EUD) and any other departments reviewing and inspecting the improvements. The meeting shall take place a minimum of 48 hours prior to the start of construction. The preconstruction meeting shall not be scheduled prior to the City departments' receipt of approved plans.

Minimum advance notice to the City's Construction Inspector for inspection shall be 48 hours. The City's Construction Inspector shall

have the opportunity to inspect all underground/subsurface improvements prior to backfill or cover.

- C. U.S.A. Markings** - White paint shall be used to indicate areas to be marked by Underground Service Alert (U.S.A.). Any areas not marked shall not be included in the U.S.A. and the Contractor shall not excavate in these areas. The Contractor will be responsible for any damage resulting from excavation in unmarked areas. The Contractor or Applicant who requested the USA markings shall be responsible for the removal of the USA markings upon completion of the work, at the discretion of the City Engineer.

The location of storm drain lines is not included within the USA markings. The Contractor shall take routine precautions to ascertain the location of storm drain pipes prior to excavating around them. Contractor shall notify the City's Construction Inspector when the storm drain system is affected.

- D. Testing** - Constructed utilities shall be tested in accordance with these Construction Standards.

- E. Cultural Resources** - The Contractor shall stop construction if cultural resources are discovered during excavation operations. It is possible that previous activities have obscured surface evidence of cultural resources.

If signs of an archeological site, such as any unusual amounts of stone, bone, or shell are uncovered during grading or other construction activities, work shall be halted within 100 feet of the find and the Roseville Community Development Department shall be notified immediately. A qualified archaeologist shall be consulted for an on-site evaluation. Additional mitigation may be required by the archaeologist.

- F. Hazardous or Toxic Materials and Contaminated Soils** - Should the Contractor encounter hazardous or toxic materials, or contaminated soils, or materials which the Contractor believes may be hazardous waste during any and all excavation or grading operations, as defined in Section 25117 of the Health and Safety Code, which require them to be moved to a Class I, Class II or Class III disposal site in accordance with provisions of existing law, the City of Roseville Fire Department shall be contacted immediately. The area which contains the hazardous or toxic materials or contaminated soils shall be marked off until an investigation by a member of the Fire Department is conducted. The cost for remediation and/or removal of soil shall be bourn solely by the Contractor/Property owner. The parties intend that this provision be broadly construed.

- G. Working Hours** - In accordance with the City of Roseville's noise ordinance, the hours of project construction shall be limited to the following:

7:00AM to 7:00PM, Monday through Friday
8:00AM to 8:00PM, Saturday, Sunday and Holidays

There may be additional limitations placed on working hours specified in the project's approved plans, conditions of approval, special provisions, or encroachment permit.

- H. Emergency Contact person** - Prior to the commencement of project construction, the City's Construction Inspector shall be furnished with the name and telephone number of a contact person who can be reached 24 hours per day regarding problems or emergencies at the site.

- I. Traffic Control** - A traffic control plan (TCP) shall be submitted whenever required by the City's Construction Inspector.

Traffic control plans may not be required, when in the opinion of the City's Construction Inspector, the situation is adequately covered by the State of California Manual on Uniform Traffic Control Devices (latest edition). When the City's Construction Inspector has determined a TCP is required, the Contractor shall submit the plan to the City's Construction Inspector in accordance with Section 12 of these Standards for acceptance by the City's Traffic Engineering Section. The plan shall include: The project title, the encroachment permit number if applicable, the requested traffic alteration specifics and the requested working hours. Upon the Traffic Engineering Section's acceptance of the plan, the Contractor shall obtain it directly from the Traffic Engineering Section. Upon issuance, the TCP shall be available at the site at all times during the work. The Contractor shall assure that the traffic control equipment is erected prior to the work beginning and that it is removed immediately when appropriate.

- 1. Start of Construction** - Construction within City rights-of-way shall not start until all equipment required by the California MUTCD Part 6 has been erected, all required permits from other agencies have been obtained and the Contractor has obtained approval from the City's Construction Inspector. Parties not obtaining prior approval shall be subject to a stop-work order from the City. The TCP shall be the primary governing traffic document. All residences and businesses shall be notified by the Contractor 48 hours prior to site access being affected.

- 2. Lane Changes and Closures and Street Closures** - Lanes shall be closed or transitioned conforming to the California MUTCD, or the approved TCP. See Detail ST-40 for the standard lane closure. Lane closures shall not be allowed when the visibility is less than $\frac{1}{4}$ mile due to fog, dust or rain.

A lighted arrow board may be employed as an additional lane change measure and shall always be used for lane changes and closures $\frac{1}{2}$ hour after sunset to $\frac{1}{2}$ hour before sunrise.

Lane closures/transitions are only permitted from 8:30 AM to 4:00 PM unless otherwise noted on the approved TCP.

Traffic control devices/equipment setup/placement shall be accomplished in a manner which renders the safest condition for drivers, pedestrians and workers. As examples, warning signs should be erected prior to erection of cones or delineators.

The worker who places the cones or delineators should be accompanied by a helper to watch on-coming traffic. The reverse should apply upon removal of the equipment.

Street closures shall be subject to the approval of the Traffic Engineering Section. Appropriate traffic control and detour plans shall be submitted to the Traffic Section via the City's Construction Inspector 96 hours prior to the proposed closure. The closure shall not be scheduled until plan approval is received. Notification of all concerned agencies including City Public Information, Fire, Police, Refuse, school and public bus systems and ambulance services shall be the responsibility of the Contractor, a minimum of 48 hours in advance of the closure.

- 3. Flag Persons** - Flag persons shall be equipped as required in the governing manual with bright colored or fluorescent vests or clothing, flags and/or stop/slow paddles and other equipment as needed. During darkness, clothing shall be reflectorized and shall be visible for one thousand feet and the flag person shall be equipped with a flashlight with an orange or lime green cone. During darkness, flaggers' stations shall be illuminated per the California MUTCD.
- 4. Adjacent Roadway Excavation** - Where excavation adjacent to an existing roadway results in an elevation difference of greater than 0.16 foot, the excavated area shall be filled with compacted aggregate base ($\frac{3}{4}$ inch minus), flush with the adjacent roadway at a slope not to exceed 4:1 (horizontal to vertical) prior to the end

of each workday. Native fill may be used with the approval of the City's Construction Inspector. Delineators shall be placed two feet off the edge of pavement. The spacing (in feet) of the delineators shall correspond to the speed limit.

Where concrete forms are placed within three feet of the existing pavement edge, the preceding requirement may be exempted overnight upon the placement of appropriate delineation and the approval of the City's Construction Inspector.

Unless construction is prohibited by rain, the Contractor shall be aggressive in completing work in the City right of way following excavation and/or removal of existing improvements for same and in opening the thoroughfare up to the public as soon as is practically possible.

5. **Steel plates** - Every effort shall be made to assure the excavation in existing street is backfilled, compacted and cut-backed at the end of each work day. Plates shall be pinned at the discretion of the City's Construction Inspector.

Steel plates shall not be used over trench areas without the approval of the City's Construction Inspector. Steel plates shall have an ante-skid surface.

All excavations covered by steel plates shall be shored. Adequate temporary pavement (cut-back) shall be used to secure the plate and as a traffic transition. Grade differences between the plate and the existing pavement may require notching of pavement for acceptable transitions.

A W-33 (Rough Road") or W-37 ("Bump") sign shall be installed 200 feet ahead of the steel plate. The sign may be mounted to an operable, lighted barricade for a maximum of 24 hours. The sign shall be mounted to a 4"x4" post for a period exceeding 24 hours.

6. **Sidewalk Removal** - Barricades are required where construction requires the removal of sidewalk or curb and gutter. Wooden lathe with flagging or cones shall not be allowed. Signs indicating "Sidewalk Closed" shall be installed at the ends of construction areas, or where required by the City's Construction Inspector.
7. **Barricades** - Barricades shall be Type 2 per Caltrans Specifications. Barricades shall only be used where collision with an object would be more severe than collision with the barricade and as approved by the City's Construction Inspector. Barricades

placed in an excavated street section adjacent to a traffic lane shall be placed at a maximum 50 feet interval.

- 8. Temporary Fencing** - Any excavation exceeding two feet in depth, left unattended outside project work hours, within a close proximity to or within a City right-of-way or easement shall be enclosed with a six foot high temporary fence.

Where temporary fencing is placed along the street in the gutter-pan or at the back of City sidewalk, a delineator or cone shall be placed at a maximum 50 foot interval along the outside of the fence.

- 9. Warning Signs** - All traffic warning signs shall be a minimum 36 inches square; shall be mounted on a metal flag tree assembly and shall include two flags each, fully exposed above the sign. The sign shall only be metal, fabric or as approved by the City's Construction Inspector. The top of the sign shall be a minimum six feet high. No sign shall be placed on a barricade unless specifically allowed by the City's Construction Inspector or specified by the Traffic Control Plan.

Upon the approval of the City's Construction Inspector, signs may be placed on a 4x4 wood post for long durations. Clearance shall be seven feet from finish grade to bottom of sign.

Signs which are prefabricated to be site specific which may specify detour routing and street names shall be steel or aluminum, 0.080 gauge.

Minimum six inch black letters shall be employed on a clean, traffic orange background. The signs shall be approved by the Traffic Engineering Section prior to erection.

- 10. Cones and Delineators** - Cones shall be a minimum 28 inches in height and delineators a minimum 36 inches high by three inches in diameter. Delineators shall include white or yellow reflective stripe(s). Cones shall include a white or yellow reflective sleeve after dark. Yellow reflective material shall be used between opposing traffic and white at the side of the roadway. Only cones, delineators, k-rail, temporary striping or temporary tape shall be used to temporarily channelize traffic.

- J. Preservation of Property** - The Contractor shall take extreme care to protect existing site and adjacent improvements from damage.

The Contractor shall be responsible for any damage resulting from the construction and shall be responsible for repair or replacement conforming to the latest standards.

- K. Personnel** - Only personnel competent in the particular trade undertaken shall be employed for the construction work.
- L. Weather** - Construction work shall not commence or progress when the weather jeopardizes a safe working environment or the quality of the project in any manner.

Construction activities within or adjacent to the public right of way during inclement weather may be prohibited where the activity constitutes an unsafe condition for the public and/or the workers. This applies to the traveled way and any work area adjacent to the traveled way.

- M. Trenching Safety** – Prior to excavation of trenches 5 feet or deeper, the Contractor shall submit the following to the City's Construction Inspector:

1. A copy of the company's annual CALOSHA trenching permit.
2. A copy of the company's letter informing CALOSHA of the time the trenching is commencing and the location of the work.

Prior to trenching within any City street right-of-way or easement, an encroachment permit shall be obtained from the Development Services Department, Engineering Division.

In unimproved areas, the maximum length of open trench (five feet in depth or more) shall be that which can be trenched and backfilled in one day. Any trench left open over night and the method of protection thereof shall be approved by the City's Construction Inspector.

In existing streets, following trenching and pipe laying, backfill shall be accomplished immediately unless approved otherwise by the City's Construction Inspector. No excavation which is larger than necessary to leave the end of the pipe exposed for the next work day shall remain open at the end of the day. The excavation shall be plated and/or fenced, subject to the approval of the City's Construction Inspector and in accordance with the City's Trench Cut Ordinance.

- N. Trailer and Material Storage** - Dumpsters, construction materials or equipment shall not be placed in the City of Roseville

right-of-way without first obtaining an Encroachment Permit from the DSD. As a minimum, two, operable, Type II, lighted barricades shall be placed at each end of the obstacle. The Encroachment Permit conditions may indicate additional reflectorization requirements.

Use of the City right of way should not be requested if there is adequate storage space on-site. Construction offices or material trailers shall not be placed within the City right-of-way with one exception. A trailer with a current California license may be parked along the edge of the street within a subdivision for a period of 72 hours, provided the travel ways are unobstructed and two operable, lighted barricades are placed at each end of the trailer.

- O. Street Cleaning** - Where dirt, mud, rock, sand or other foreign material are tracked onto public street pavement, the Contractor shall clean the streets daily, or as directed by the City's Construction Inspector. If the Contractor fails to keep the streets clean, the City may clean the areas and bill the Contractor. Streets shall be cleaned with a power broom or hand brooms and shall not be washed with water without the approval of the City's Construction Inspector. Any mud displaced into the City storm drain system by the Contractor shall be removed at the discretion of the City's Construction Inspector.
- P. Interruption of Parking Areas** - Where parking needs to be interrupted by construction work, the Contractor shall place Type II barricades with "No Parking" notices behind the curb, adjacent to the respective parking area, a minimum of 24 hours prior to the start of construction. For more information on street cleaning, see Roseville's Stormwater BMP Guidance Manual for construction.

Information on the notice shall include the date and times that parking is prohibited and shall be legible from a distance of 25 feet. Barricades/notices shall be placed at a minimum interval of one per parking space.

- Q. Contractor Employee Vehicle Parking** - The Contractor's employee parking shall be limited to designated areas on-site, and shall not encroach into designated wetland areas, tree protected zones or any other areas protected by jurisdictional boundaries, Conditions of Approval or City ordinances.
- R. Construction Safety** - Construction safety within the City of Roseville shall be governed by the Construction Safety Orders of the Occupational Safety and Health Standards of Title 8 of the California Code of Regulations.

- S. Blasting and Explosive Requirements** - The contractor shall have a valid California State Blasting License issued from the State of California Department of Industrial Relations, Occupational Safety and Health Administration, and a City of Roseville Business License. Additionally, the Contractor shall obtain a City of Roseville "Explosives Application/Permit" from the City's Fire Department prior to any and all blasting within the limits of the City of Roseville. The Contractor shall have on file, and keep current, the required insurance documents established by the Risk Manager's Office. The Contractor shall notify the following City Departments 72 hours in advance of blasting. (If the blasting event involves a street closure or public safety concern, the City reserves the right to require more notification time.):

Police Dispatch:	916-774-5117
Public Information Office	916-774-5201
Development Services Engineering:	916-774-5339

- T. Pavement Milling Requirements** - All Milled edges perpendicular and diagonal to the travel way shall be temporarily transitioned at 30:1 slope with temporary pavement (cut-back). A W8-8 ("Rough Road") or W8-1 ("Bump") sign shall be installed 200 feet ahead of the pavement milled location. The sign may be mounted to a metal flag tree stand for a maximum of 24 hours. The sign shall be mounted to a "4 X 4" post for a period exceeding 24 hours.

- U. Discharge Fluid from Boring Operations** - Utilizing the City's drainage system for residual discharge from boring equipment without the required measures is prohibited. This discharge is a violation of the Clean Water Act. Discharging into an open area without the approval is also not allowed.

All street boring shall include adequate measures to mitigate muddy water discharge. An acceptable measure is pumping the discharge fluid into a tanker and hauling it away. Other measures suggested by the Contractor will be considered by the City. For more information concerning discharge fluid from boring operations, see Roseville's Stormwater BMP Guidance Manual for construction.

- V. Concrete Truck Washout Areas** - The Contractor shall use precautions and or devices for the protection of storm drain inlets, wetlands, vernal pools and sensitive open space areas which may border the respective project. The washout area shall be confined to respective site. For more information concerning concrete truck washout areas, see Roseville's Stormwater BMP Guidance Manual for Construction at:

<http://www.roseville.ca.us/civicax/filebank/blobdload.aspx?blobid=10580>

21-3 DEVELOPER'S RESPONSIBILITY - It shall be the Developer's responsibility for:

- A. Record Drawings**-PDF electronic, two sets of blue line prints (1 set of 24"x36" and 1 set of 11"x17") shall be submitted to City's Construction Inspector as a condition of the Certificate of Completion.

21-4 MINIMUM REQUIREMENTS FOR MODEL HOME BUILDING PERMITS

Model home building permits will be issued upon the City's satisfaction of all requirements specified in the "Model Home Complex application and building permit submittal and development department inspection checklist, issued by the Permit Center. This includes the following Development Services Department requirements:

- A.** The pad grades for the model home lots have been certified for compaction by a geotechnical engineer and for conformance to the grading plan elevations by a registered Civil Engineer. Original stamped certifications are required prior to formal City acceptance per Section 21-5.E.
- B.** All property corners for each of the model home lots shall be staked with permanent markers to the satisfaction of the City Engineer. If curb, gutter and sidewalk has been placed at the time for which model home permits are applied, the front property corners shall be marked per Section 71-4 F. of the Standards.
- C.** All utilities, utility crossings and utility extensions to each model home lot, located within the roadway, and Public Utility Easement (PUE) shall be installed. All utility water valves and manholes shall be raised and paved.

Utilities include, but are not limited to: natural gas, electric, cable, telephone, water, sewer and storm drain.

- D.** Access to the model homes from future streets within the subdivision or from approved alternative access does not cross the alignment of any future utility to be installed with the Subdivision Improvements, as determined by the City Engineer.
- E.** Fire hydrants must be located within 500 feet of all combustible materials and be capable of delivering adequate fire flows to the satisfaction of the Fire Marshall.

- F.** For every issuance of model permits access to the model homes must be paved and connected to a maintained public street to the satisfaction of the City Engineer.

If the sub divider intends to obtain an alternative access to the model homes from an adjacent maintained public street, the sub divider shall obtain approval from the City Engineer and Fire Marshal.

The City Engineer may require all work and construction on the model homes to cease at any time until all or additional portions of the subdivision improvements are finished in order to protect the health, safety or welfare of the public and workers.

21-5 MINIMUM REQUIREMENT FOR PRODUCTION HOME BUILDING PERMITS

Production home building permits may be issued once the subdivision improvements are substantially complete.

The subdivision shall be deemed substantially complete by the Development Services Inspector when the following items are completed or verified:

- A.** All surface street improvements (sidewalks, curbs, gutters, ramps, driveways and street paving) are installed.
- B.** Raise and pave all manholes, water valves, including survey monuments.

All water, sewer and storm drainage components shall be tested, approved and operational. This includes conformance to the City of Roseville Fire Department's minimum flows for all fire hydrants.

- C.** Ball and flush all sewers.
- D.** Install all underground gas, electric, telephone and TV cable facilities and backfill trenches.
- E.** Submit lot pad certifications for grade and compaction. Electronic signature pad certification submittal with original wet signature pad certification follow up prior to City acceptance is authorized. Original stamped certifications required prior to formal City acceptance.

In the case where a significant lapse in time has occurred between the original pad certification date and City acceptance date, at the discretion of the City Engineer, the City will honor past dated pad certifications provided the Developer's geotechnical engineer re-

submits a current wet stamped letter acknowledging the previous certifications are still valid despite the lapse of time.

- F.** Mark lot corners in City sidewalk or curb and gutter and at the back of lots.
- G.** Install erosion and sediment control measures, including storm water outfalls as shown on the approved plans and fully implement Stormwater Pollution Protection Plan, (SWPPP).
- H.** Install street name and traffic signs and striping.
- I.** Construct all common lot retaining walls per the improvement plans.
- J.** Assure final subdivision map is recorded.
- K.** Completion of sound walls, open space and post & cable fencing shall be a condition of building permit issuance, only where the sound wall, open space and post & cable fencing backs up to existing, adjacent residences, or open spaces.

21-6 REQUIREMENTS FOR SUBDIVISION CERTIFICATE OF COMPLETION (C.O.C)

Prior to acceptance of public improvements by the Roseville City Council, the following items must be completed and provided to the City's Construction Inspector:

- A.** The Contractor or Developer shall request a final inspection and punch list for the constructed improvements from the City Development Services Engineering Division. As each department approves the completion of punch list items and appropriate conditions of approval, and acknowledges department acceptance in the City's electronic database system. Upon receipt of all applicable approvals, Engineering will consolidate the C.O.C. package and forward it to City Council for approval.
- B.** PDF Electronic, two sets of blue line prints (1 set of 24"x36" and 1 set of 11"x17").
- C.** Lot pad elevation and compaction certifications, (original stamped documents).
- D.** Payment of all outstanding plan check and inspection fees.
- E.** Maintenance Bond to cover one year construction maintenance warranty period.

- F.** Written certification from the applying Contractor that anti-graffiti coat has been placed on all sound and retaining walls conforming to the Roseville Construction Standards and manufacturer's recommendations.
- G.** Per Roseville Municipal Code, Section 19.64.050 P., where model home complex trap fencing is used, it shall be placed behind the City sidewalk.
- H.** Annual Stormwater Maintenance Agreement.
- I.** Completion of the public infrastructure improvements as specified in Section 21-5, including the street lighting system.

21-7 RESIDENTIAL OCCUPANCIES DURING RESIDENTIAL BUILDING - Upon the occupancy of one or more homes in public or private subdivisions, the occupant (s) shall have a safe, clean, unobstructed travel way, including sidewalks, in accessing and exiting the area of their home, applying to newly constructed streets within the subdivision extending to the closest existing street. The following minimum standards are to be met:

- A.** Streets shall be thoroughly cleaned, back of walk to back of walk at the end of each work day.
- B.** No building materials, portable toilets or construction equipment shall be stored within the street right-of-way. Portable toilets shall be a minimum of 50 feet from drain inlets.

A trailer with a valid California license may be parked along edges of the street within a subdivision for a period of 72 hours, provided the travel ways are unobstructed and each outside corner of the trailer has lighted barricades.

Erosion control materials at drain inlets such as straw bales and gravel bags shall be removed. Silt bags which are in drain inlets fronting homes with completed landscaping shall be removed.

- C.** Landscaping related materials (such as cobbles, bark or gravel) may be staged in the streets for immediate removal. If stored overnight, a lighted barricade shall be placed on each side of the pile, toward traffic. The pile shall not extend into the street from the curb further than the width of a parked car.
- D.** Unoccupied cul-de-sacs or other section of streets for which there is no public access necessary shall be barricaded. Barricades shall be Type

III (or fencing as approved by the City Fire Department), subject to the approval of the City Engineer.

E. Completion of the street lighting system shall be a condition of Certificate of Completion (C.O.C) and not a condition of building permit issuance, temporary occupancy of model complexes, and/or subdivision occupancies.

F. All other requirements within the Subdivision Ordinance and Building Division regulations for approval of occupancy shall apply.

21-8 GUARANTEE AND WARRANTY - The Contractor shall guarantee and warrant all materials supplied as being fit for the purposes intended. The Contractor shall guarantee and warrant all work performed as having been accomplished in a proper and workman-like manner.

Should any failure of work occur within the warranty period, the Contractor shall promptly make the needed repairs at the Contractor's own expense. Should such failure of work result in excessive maintenance by the City, or in the opinion of the City, the failure is best left unrepaired, the Contractor shall incur the additional maintenance cost.

The cost shall be equal to the annual maintenance cost divided by the current prime rate. Should the Contractor not make or undertake the

Necessary repairs within 30 days of having received written notification from the City Engineer, the City may make the repairs and the Contractor shall pay the entire cost thereof.

In emergency cases, where in the opinion of the City Engineer (provided a Reasonable attempt has been made to notify the Contractor) delay would cause serious loss or damages, or a serious hazard to the public, the repairs may be made without prior notice to the Contractor, and the Contractor shall pay the entire cost thereof.

The procedures for review, repair and release of guarantee and warranty obligations shall be as follows:

A. Subdivision Improvements - The guarantee and warranty shall continue for a period of one year after Certificate of Completion for all public improvement work installed under any Subdivision Agreement. The Subdivision Agreement shall be binding in its entirety.

The following procedures shall be followed for completion of the guarantee and warranty for subdivision improvement:

1. All necessary City departments shall complete their guarantee and warranty inspections during approximately the tenth month

following the Notice of Completion and prepare and deliver a final punch list to the Contractor by approximately the end of the tenth month.

2. Within 30 days of receipt of the final punch list (during the eleventh month), the Contractor shall repair or address all items indicated. All City departments issuing a punch list shall then be notified for re-inspection of repairs.
3. Within 30 days of notifying the Contractor (by the end of the eleventh month), the City departments shall re-inspect the repaired improvements.

Upon the City's approval of the repairs, the maintenance bond will be allowed to expire, at the conclusion of one year following the Certificate of Completion. If the Contractor does not complete the required work by the end of the eleventh month, the list of repairs will be referred to the City Attorney's office for further management.

Any subdivision improvement work subject to the one year warranty shall require the issuance of an encroachment permit.

B. Encroachment Permit Improvements - The guarantee and warranty shall continue for a period of 180 days after approval from all City departments affected, for all work installed and completed under an Encroachment Permit for projects valued less than \$25,000.00. For projects valued greater than \$25,000.00, as determined by the Director, the warranty period shall be 365 days. Upon the permittee's request, the performance security shall be replaced with a warranty security equal to 10 percent of the project costs. Upon final inspection following the warranty period all securities will be released. The Encroachment Permit Shall be binding in its entirety. The following procedures shall be followed for completion of the guarantee and warranty for encroachment permit improvements:

1. All necessary City departments shall complete their guarantee and warranty inspections during the last two weeks of the fifth month following the date of the City's acceptance of the work.
2. The Contractor shall be issued a punchlist upon the conclusion of the two week inspection period.
3. The Contractor shall complete the required repair work by the end of the sixth month following the initial approval of the work.

4. Within 30 days of notification, the City departments shall re-inspect repaired improvements, and upon approval of the repaired improvements, shall notify the City Clerks office for release of the Encroachment Bond.

C. Underground Warranty Work within City Street Right-of-Way - All underground work done as a result of the one-year warranty inspection shall comply with the following:

1. All backfill in City streets shall be two sack, slurry cement.
2. The asphalt concrete patch shall conform to Construction Standard Details TB-1 or TB-3 and the Trench Cut Ordinance. Determination of Detail TB-1 or TB-3 shall be at the developer's discretion.
3. Depending upon the extent of asphalt concrete patching necessary and at the discretion of the City's Construction Inspector, a CalTrans Type II slurry seal or one inch asphalt concrete overlay of the entire street width in the area of the patches may be required.
4. Pavement cracking: Depending upon the extent of cracking and at the discretion of the City's Construction Inspector, cracks shall be sealed per Section 71-4 D (Asphalt Concrete Paving) of these Standards.

Crack sealing shall be followed with a slurry seal or one inch asphalt concrete overlay which shall be applied to the entire street width in the area of the cracks as required by the City's Construction Inspector.

D. EUD's Policy on Warrant Repairs on Sewer Stub and Services

1. Sewer Services to residential and commercial subdivision lots under warranty: Where a project inspection identifies defects in a sewer service and the sewer main is still within the warrant period, the responsibility to repair the service rests solely on the developer who installed the sewer main.
2. Sewer services to residential and commercial subdivisions outside of warranty: Where a project inspection identifies defects in a sewer service and the sewer main is no longer under warranty, the responsibility to repair the defects shall rest on both the developer and the City as follows:
 - i. The developer shall be responsible to repair defects found in any sewer service from the first joint downstream of the sewer

cleanout to the commercial or residential building (that portion of the sewer services that is considered “private”).

- ii. The City shall be responsible to repair defects found in any sewer service from the first joint downstream of the sewer cleanout to the sewer mainline (that portion of the sewer service that is considered “public”).

3. Sewer stubs to residential and commercial subdivisions: Where sewer stubs have been constructed on sewer mains, these sewer stubs become an integral part of the sewer system of the proposed residential or commercial subdivision they were designed and built to serve. The developer of the subdivisions shall be required to test and repair these stubs, if found damaged, prior to tie-ins. A note to this effect shall be placed on all Building and improvement plans to ensure the developer is aware of this requirement prior to initiating construction.

21-9 MATERIALS

- A. Approved Equal** - The words “approved equal” shall mean any public works material deemed by the EUD or DSD to be acceptable for use within the City rights-of-way or property as compared to products of specified manufacturers. Contractors proposing to use materials which are not specifically named shall submit all necessary documentation to allow use of said material as an approved equal.

The submittal shall include a letter with:

1. **Product-** A description of the product and the appropriate materials specification section number.
2. **Contact-** The name and telephone number of the contact person for the proposed product.
3. **Reference-** A list of other agencies that are using the proposed product including names and telephone numbers.

For water, sewer and reclaimed water related materials, address the letter to the EUD Engineering Division at 2005 Hilltop Circle, Roseville, CA 95747, ATTN: Senior Engineer. For streets and storm drain related materials, address the letter to 311 Vernon Street, Roseville, CA 95678, ATTN: Senior Engineer, Construction Management Section.

The Contractor shall allow eight to ten weeks review time by the City staff.

B. Unapproved Materials - Materials not approved for use on the project shall be removed from the site within 24 hours if requested by the EUD/DSD inspector.

SECTION 31

TRENCH BACKFILL

31-1 GENERAL - All trench backfill shall be mechanically compacted native soil, mechanically compacted imported fill, mechanically compacted aggregate base or slurry material, as required on the Construction Standard Details. All trenching within City Streets shall conform to the City's Trench Cut Ordinance Numbers 3524 and 3602. These ordinances represent a comprehensive pavement protection program incorporating a trench cut cost recovery fee. The trench cut fee provides funds to repair the actual accelerated street damage caused by trenching and is an incentive to promote better trench cut coordination among utility companies.

31-2 TRENCH BACKFILL - Trench backfill within the City of Roseville street rights-of-way shall conform to Construction Standard Details TB-1, TB-2, TB-3, TB-4 and TB-5. Moisture content shall be controlled to obtain the optimum density for the native soil type encountered. All compaction testing shall conform to ASTM D1557-78 test methods. Trench backfill compaction shall be tested and certified by a licensed geotechnical engineer at the Developer's expense. Certification shall be provided to the City Engineer prior to the construction of surface improvements.

Backfill for joint utility trench shall be sand compacted 85% relative compaction (TYP), above the 4 utilities occupying the joint trench. Then backfill with native material free of all deleterious materials, rocks or boulders compacted to 90% within one (1) foot of final grade and 95% the last foot. Sand Shading material to be, screened free, No. 4 sieve, 4mm maximum particle size, free of sharp edges, and approved by each utility trench inspector. (DG will not be approved).

Following paving operations and where water utility valve clusters are present, standard mechanical compaction efforts and equipment may have limited access to achieve adequate compaction per these Standards. In these cases, it is authorized that 2-sack flowable concrete slurry backfill material may be used within the water valve excavation area to just below the required concrete collar height. Once cured, placement of concrete collar and/or HMA paving operations may progress.

A. Existing Streets - Trench backfill in existing streets shall conform to Construction Standard Detail TB-1, TB-2, TB-3, TB-4 and TB-5 the City's Trench Cut Ordinance. Longitudinal trenches for dry utilities (CATV, telephone, gas, electric, traffic signal and signal interconnect cable) shall be excavated six inches clear from the gutter lip, conforming to Details TB-1 or TB-3. (For Detail TB-3, the 18 inch key nearest the gutter for the asphalt concrete patch shall be modified to six inches.) Following the patching of the trench with asphalt concrete,

the street surface shall be slurry sealed from the gutter lip to the edge of the bike lane stripe (usually four feet wide). If the bike lane stripe is obliterated in any manner by the construction process, it shall be replaced with thermoplastic per these Construction Standards.

B. Jetting - Compaction of trench backfill by jetting methods is **NOT** allowed in City of Roseville right-of-way areas or over dedicated reclaimed water, storm, sewer or water easements and mains. Jetting of joint utility trenches behind the right-of-way and within public Utility easements may be allowed under specific conditions and upon the written approval of the City's Construction Inspector and the Geotechnical Engineer.

C. Material - Material for backfilled trenches shall contain no organic material and no rocks or soil lumps exceeding four inches in diameter with the following qualifications:

1. Cobbles in the initial backfill (the first one foot above the pipe bedding covering the pipe) shall be three inch maximum diameter.
2. An exception to the four inch maximum diameter cobble is where cobbles exceed four inches in diameter and are predominant (as determined by the City's Construction Inspector and Geotechnical Engineer). In this condition, eight inches in diameter is the maximum size cobble allowed.
3. The maximum cobble size shall not be greater than that of the depth of the maximum compaction lift, for the type of equipment used.

Controlled Density Fill (CDF) may be used on a case by case basis. The Contractor shall submit proposed CDF design mix to the PWD for review and approval prior to placement.

Native soil shall not be used for bedding for utility conduits or chases within the City right-of-way, but only select bedding materials such as sand, pea gravel, and ½ inch (minus) crushed rock or two sack cement slurry.

D. Placement of Material - Equipment shall be a size and type satisfactory to the on-site geotechnical engineer or City's Construction Inspector. Impact-type pavement breakers or compactors (hydrahammers) shall not be used within 5 feet of the top of any type pipe. Material for mechanically compacted backfill shall be placed in horizontal lifts which, prior to compaction, shall not exceed the depths specified below for the type of equipment employed. Actual maximum lift depth will vary with soil conditions and compaction equipment. The

Contractor shall consult with a geotechnical engineer to determine the appropriate maximum depths.

The Contractor shall be responsible for verifying compaction requirements for each lift.

E. Typical Compaction Equipment and Maximum Lift Depths Achieved by Proper Compaction

Maximum lift depth of four (4) inches, equipment type:

Portable, engine driven pneumatic type (wacker)
Portable vibratory plate

Maximum lift depth of twelve (12) inches, equipment type:

Backhoe mounted sheep-foot
Vibratory smooth wheeled roller
Vibratory smooth wheel roller with pneumatic tires

Maximum lift depth of eighteen (18) inches, equipment type:

Impact, free-fall or stomping equipment (hydrahammer)

F. Pipe Bedding References-

See W-1 and SS-1 for water and sewer pipe bedding requirements.
See TB-2 for non-rigid storm drain pipe bedding.

SECTION 56

SIGNS

56-1.01 GENERAL - Signs shall be constructed/installed in accordance with the approved improvement plans and specifications, these Construction Standards, the City Design Standards, The California Manual on Uniform Traffic Control Devices (CMUTCD), and the Standard Highway Signs manual.

All sign materials shall be produced by same manufacturer to eliminate incompatibility issues associated with indifferent materials, (i.e. 3M high intensity prismatic sheeting and 3M electronic cut-films shall be similar material). Prior to City acceptance of new sign improvements, Contractor shall submit to City Construction Inspector either letter of authenticity by manufacturer or certification from 3M or approved equal, indicating like materials were used.

As a minimum, all signs shall be the common size as shown in the Standard Highway Signs manual. On collector and arterial streets, the minimum size of type R1 stop signs shall be 36 inches. Type R1 stop signs on other streets shall be 30 inches. Type R1 stop signs installed on bike trails may be either 24 inches or 18 inches as approved by the Engineer. Type R1 stop signs installed on alleys may be 24" as approved.

All signs shall be fabricated using HIP sheeting, except, Fluorescent Yellow Green (FYG) background colored signs shall be diamond grade sheeting and installed for the following sign types: S1-1, S3-1, S4-3, W11-1, W11-2, and W16-7p and W16-9p when used with one of the previously listed signs.

Advance D3 Guide signs shall have a 1" inch white reflective border around the perimeter of the sign as shown in Detail 17-B of these standards.

All Overhead Signs (Signal Mounted) and advance D3 Guide signs shall have a 1.25 inch white reflective border around the perimeter of the sign as shown in Code 67-1 of the CalTrans Sign Specifications.

All sign panels, except as otherwise directed in these standards, shall be fabricated using reflective high intensity prismatic (HIP) sheeting or equivalent. Message and sheeting shall be on one side of the panel only. No mixing of diamond, high intensity, or engineering grade sheeting on the same panel shall be allowed.

Overhead Signs (Signal Mounted) shall be fabricated using high intensity sheeting. All Fluorescent Yellow Green (FYG) background colored signs shall be fabricated using diamond grade sheeting. All type D3 (street name and advance street name) signs along arterials and collectors shall be high intensity grading meeting FHWA MUTCD Table 2A-3.

Where crossing the street is restricted at signalized intersections, R9-3 and R9-3bP signs shall be installed on the signal pole in the place of the pedestrian signal indication.

U-turns shall be restricted where less than 44 feet exists between the right lane line of the left turn lane and the face of curb for the opposing direction of travel for single left turn lanes, where less than 36 feet exists between the left edge of the inside left turn lane to the face of curb for the opposing direction of travel for dual turn lanes, or as required by the Engineer (TS-15).

W3-3 Signal Ahead signs shall be installed on all approaches to a signalized intersection on the day of signal activation. The signs shall be installed prior to the left or right turn pocket bay tapers at a minimum and shall be mounted on street light poles when possible. Please see Detail TS-16 for additional placement information. Immediately prior to the activation of a new traffic signal, the contractor shall install two (2) orange flags on the "Signal Ahead" signs. The flags shall remain in place for two weeks prior to removal by the contractor.

A bicycle signal actuation sign, R10-22, shall be installed in conjunction with bicycle detection. The sign shall be placed adjacent to the bicycle loop on the nearest signal pole or on a sign post per City standards as directed by the Engineer.

Subdivision Signage Requirements:

1. Subdivision Entrances

- At all entrances to a subdivision off a collector or arterial, install a type R2-1 "25 mph Speed Limit" sign.
- At the first 4-way intersection entering a subdivision, coming off a collector or arterial with a separation of less than 200 ft., install type R1-1 "Stop" signs, bars and legends on the residential minor streets.
- At the first Tee intersection entering a subdivision, coming off a collector or arterial, install type R1-2 "Yield" sign on the stem of the intersection.

- Install type R26 (CA) “No Parking Anytime” signs at the entrance to subdivision that have a small median/island just off an arterial or collector.

2. Courts

- Install a type W14-2 “NO OUTLET” sign at the entrance to all Courts or Cul-de-Sac’s when you cannot see the end of the roadway from the last intersection. Place the sign on the nearest street light pole when possible.

3. Intersections within Subdivisions

- All four-way intersections shall have right-of-way controls established on the minor street. On roadways with minor traffic Volumes expected, install type R1-2 “Yield” signs. At intersections with heavier expected traffic volumes and/or pass through traffic, install type R1-1 “Stop” signs, bars and legends.

All existing traffic signs, which are in conflict with the proposed work as shown on the plans, shall be removed by the Contractor and returned to the City. The Engineer shall make the final decision if a question arises as to what represents said conflict.

OVERHEAD SIGN STRUCTURES (Signal Mounted)

56-1.02 MATERIAL - D3 and G-8 (CA) street sign lettering shall be white high intensity prismatic (HIP) or equivalent Series C, with eight inch upper case and six inch lower case lettering. When the text is too long for a single line, lettering other than Series C, but not smaller than Series B, may be used with the approval of the Engineer.

D-3 and G-8 (CA) Signs with one line of text shall be 24 inches tall. Signs with two lines of text shall be 36 inches tall.

All white symbols and arrows on G-8 (CA) signs shall be reflectorized.

Internally Illuminated Street Name Signs (IISNS) shall require a City approved layout proof matching existing City LED IISNI's prior to ordering. Only products with prior approval from the City shall be allowed.

56-1.06 SIGN PANELS & FASTENING HARDWARE - Overhead sign structures shall be attached to signal mast arms per CalTrans Standard Detail ES-7N, or as directed by the Engineer.

All D3 street name signs mounted on signal mast arms shall not be the swinging arm type. One end of each street name sign shall be attached to the signal pole in at least two places, and the other end shall be attached to the signal mast arm. Fastener shall pass through both sign panels and stiffening braces, unless otherwise noted.

All signal mast arm mounted signs shall have back stiffening braces attached to the sign panel.

ROADSIDE SIGNS

56-2.02 MATERIAL - D3-2 and G-8 (CA) Signs with one line of text shall be 18 inches tall. Signs with two lines of text shall be 24 inches tall. At non-signalized intersections, street name signs shall be provided, and shall conform to Detail TS-17A in the City of Roseville Construction Standards.

56-2.02A METAL POLE – All roadside signs shall be installed on metal poles as specified in these standards. Wood posts shall not be allowed. See TS-17 for additional details.

Metal pole, square tube, shall conform to the standard specifications for cold rolled carbon sheet steel, commercial quality, ASTM A-446 or hot rolled carbon steel sheet, structural quality, ASTM A-570-90 and ASTM A-653-94 structural grade 50.

Square tubes shall be installed into a sleeve of same material with two holes showing above “**finished**” grade. All holes below grade shall be taped closed. The sleeve shall be embedded in concrete, per S-1. No concrete shall be allowed to enter the sleeve.

Corner weld shall be carefully rolled to size and shall be welded directly in the corner by high frequency resistance welding and externally scarfed to agree with corner radii. Corner weld shall be zinc coated after scarfing operation.

The cross section of the post shall be square tube formed of 12 gauge (.105” USS gauge) steel, carefully rolled to size and shall be welded directly in the corner by high frequency resistance welding and externally scarfed to agree with corner radii.

Posts shall be 1-3/4” x 1-3/4”, have a squariness tolerance of plus or minus 0.010”, be made of 12 gauge U.S.S., weigh 2.06 pounds per foot, and twist no more than 0.062” over 3 foot in length. Typical length of pole of pole 10, 12, 14’ (MAX) or as approved per section 56-2.04

The square tubes shall have holes that are seven-sixteenths plus or minus one sixty-fourth inches diameter on one (1) inch centers, on all four sides for the entire length of the pole. The holes shall be on the centerline of each side in true alignment and opposite to each other directly and diagonally. All posts shall be cut in such a manner to ensure hole alignment between anchors and sleeves when installed.

The length of each post shall be per plan, as required for the project, or as designated per these specifications.

The finished posts shall be straight and shall have a smooth uniform finish. All holes and ends shall be free from burrs and ends shall be cut square.

Supports shall be of sufficient size to support the sign panel. Signs on single supports shall resist the effect of eccentric wind force. A support member 10 feet long shall not rotate more than 2 degrees when test loaded with 50 foot-pounds (600 inch-pounds) torque on one end while the other end is firmly held against rotation.

Permissible variation in the straightness is one-sixteenth of an inch in three feet.

Standard outside corner radius shall be five-thirty seconds of an inch plus or minus one sixty-fourth of an inch.

Welding flash on the inside corner of the welded square tubes shall be controlled to permit a nine sixty-fourths inch radius gauge to be place in the corner.

Square tubes shall be manufactured from hot dipped galvanized steel with 1.40 ounces of zinc coating, conforming to ASTM A-653, also referred to as G-140.

Square tubes shall be produced utilizing a Polyester TGIC Powder Coating in a white high-gloss finish.

Corner weld should be zinc coated after scarfing operation. Interior and exterior walls of the tubing shall be galvanized, or tubing shall be given a triple coated protection by an in-line application of hot-dipped zinc (galvanization) per AASHTO M-120 followed by a chromate conversion coating and a clear organic exterior coating. The inside surface shall be given corrosion protection by double in-line application of a full zinc base organic coating.

56-2.02D SIGN PANEL FASTENING HARDWARE - all signs with a surface area greater than 9square feet shall have back bracing attached

from the post support to the sign panel. Sign panels 9 square feet or larger shall have adequate bracing to prevent panel flexing.

56-2.04 SIGN PANEL INSTALLATION - Efforts shall be made to ensure that all signs in the center median or shoulder areas are not installed next to landscaping or other objects which may impair visibility of the sign.

The bottom of roadside signs shall be mounted at a minimum height of seven (7) feet above the grade of the sidewalk (or traveled way if there is no sidewalk), with the following exceptions:

1. The bottom of type R4-7, W1-6, and W1-7 signs shall be mounted at a minimum height of five (5) feet.
2. The bottom of type R6-1 signs located in the median shall be mounted at a minimum height of (1.5) feet.
3. The bottom of type W1-8 signs located outside of sidewalk areas shall be mounted at a minimum height of three (3) feet.
4. At intersections in residential areas, the bottom of street name signs shall be mounted at a minimum height of eight (8) feet.

SECTION 71

STREETS

71-1 GENERAL - Street surface improvements shall include: barricades, bikeways, bridges, bollards, curb, curb & gutter, driveways, pavement, curb ramps, sidewalk, survey monuments and tunnels. These improvements shall be installed in accordance with the approved improvement plans, these Construction Standards and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the Caltrans Standard Specifications latest edition and as specified by the City Engineer. No Street shall be cut, nor any public improvement disturbed until the Developer/Contractor has obtained an encroachment permit from, and/or entered into a subdivision agreement with the City.

71-2 CONNECTION TO EXISTING IMPROVEMENTS - Connection to existing surface improvements require that the following conditions be met:

A. Existing Stub Street Connection - The Developer shall be responsible for removing and reconstructing a portion of the existing roadway to make a satisfactory connection, as required by the City Engineer.

B. Street Widening - When widening to complete a partial street along a development project, the Developer shall be responsible for saw cutting and removing a narrow strip along the outside portion of the pavement to provide a clean and stable pavement section for constructing against. The width from centerline shall be shown on the approved plans or as determined in the field, and verified by the City Engineer. Following construction of the adjacent curb and gutter, paving shall not commence until the City's Construction Inspector is satisfied that the cross grade between the existing pavement edge and the new gutter lip conforms to or approaches the City's required 2% cross grade. 3% is the maximum cross grade allowed on this AC pavement section unless shown on the approved plans.

C. Sawcutting - When sawcutting within the street for trenching or other purposes, Contractor shall grind 1-1/2 inches of pavement between the lane lines (from lane stripe to lane stripe), upon completion of the sawcutting and/or trenching work. Where the sawcutting occurs between the curb and gutter and nearest lane stripe (including bike lanes), the same 1-1/2 grind shall be required. Contractor to place a Petromat fabric or approved equal by the City, and overlay from lane stripe to lane stripe, or curb to lane stripe and restripe or replace any delineators removed during the grind.

71-3 CONSTRUCTION STAKING - Construction staking shall be provided by the Developer for all surface improvements. Such staking shall provide the station and offset, as well as the cut to the nearest hundredth (0.01) of a foot. Stakes shall be provided at a minimum of every 50 feet in tangent sections and every 25 feet in curved sections. Monuments shall have straddle ties placed.

Cut sheets for the appropriate phase of work shall be on-site and shall be furnished to the City's Construction Inspector upon request.

The engineer's surveyor shall stake the grades and location for the top and bottom of slope for all curb ramps.

71-4 INSTALLATION

A. Subgrade - Note: The geotechnical engineer shall closely monitor and test subgrade fills to assure the material meets soil R-Values identified in the street design portion of the project soils report. If R-Values differ from the soils report, structural sections shall be adjusted (including plan revisions) by the design engineer and approved by the City Engineer. Where mehrten (mehrten mudflow breccia and /or mehrten conglomerate), lava cap material, cobbles or other stable native subgrade materials are encountered upon commencement of street grading, the respective material may be substituted for processed subgrade, and/or aggregate subbase and /or aggregate base. This is conditional upon confirmation by the geotechnical and design engineers (and approval of the City Engineer) that the existing subgrade/subbase/base section thicknesses and composition will meet or exceed traffic index and R-Value requirements for the respective street. A minimum of three inches of Class II aggregate base shall be required on such substituted material on which to pave.

Soils testing for relative compaction shall reference ASTM D1557-78 test methods.

1. Subgrade for Sidewalk and Curb Ramps, Curb and Gutter, Driveways and Asphalt Concrete Paving - Subgrade shall be processed to 95% relative compaction, minimum six inches plus, and shall be tested and certified by a geotechnical engineer, licensed in California. Written certification shall be provided to the City's Construction Inspector prior to the placement of concrete (and aggregate base or aggregate subbase for asphalt concrete). For meandering sidewalks, Class II aggregate base may be substituted for native subgrade at the Contractor's discretion and shall be processed to 95 % relative compaction.

Additionally, subgrade stability for curb, gutter and sidewalk and asphalt concrete pavement shall be load tested by proof rolling with a loaded, minimum 3,000 gallon water truck (or equipment of equivalent weight as approved by the City's Construction Inspector) in the presence of the City's Construction Inspector, the Geotechnical Engineer and the Contractor. The proof roll test shall be repeated following corrective measures. Prior to placement of aggregate base, deflection in the subgrade shall be eliminated. Placement of aggregate base shall not commence without the approval of the City's Construction Inspector.

Where mehrten (mehrten mudflow breccia and/or mehrten conglomerate), lava cap material, cobbles or other native subgrade material not conducive to the operation of the concrete extruding machine are encountered, that material shall be removed to a depth of six inches below top of subgrade, and shall be replaced with native or imported soil (acceptable to the City's Construction Inspector and the geotechnical engineer) compacted as specified above.

Aggregate base is not included in the structural section for monolithic sidewalk and Type 1 (or Type 2) curb and gutter. Aggregate base may be used for meandering or otherwise detached sidewalk.

Sidewalk subgrade exposed upon removal of existing sidewalk shall remain intact unless it is determined by the City's Construction Inspector to be unstable. In this event, it shall be processed per the preceding paragraphs.

Deflecting, unstable areas shall be corrected per the recommendation of the Geotechnical Engineer and upon the approval of the City's Construction Inspector prior to placement of aggregate base, or concrete curb, gutter and sidewalk.

ORDER OF WORK: Street subgrade preparation, concrete placement and placement of any aggregate base or subbase for asphalt concrete pavement within the City right-of-way shall conform to the following sequence of operations, notwithstanding Section B. below. Prior to placement of aggregate base in the City right-of-way, the contractor shall:

- a. Complete underground work outlined in Section B, below.
- b. Process and compact subgrade for curb, gutter, sidewalk and asphalt concrete pavement, back of sidewalk to back of sidewalk.

- c. Complete construction of curb, gutter and sidewalk after approval of the subgrade by the City's Construction Inspector.
- d. In addition to Section 90-8 Protecting Concrete, the Contractor shall protect newly placed concrete finish from rainy conditions, graffiti, and weather related damage. In addition, all Contractor wheeled equipment shall not travel within one foot of the lip of gutter in the first 24 hours following concrete placement. Contractor's vibratory compaction equipment may not operate within 72 hours and until all adjacent sidewalk, curb and gutter concrete has reached a minimum of 1400 psi compressive strength.
- e. Complete finish grading of subgrade for asphaltic concrete pavement, conduct proof rolling test and begin placement of aggregate subbase and/or aggregate base after approval of the finished subgrade by the City's Construction Inspector.

B. Aggregate Base and Subbase - Roadway aggregate base and subbase, lime/cement treated base and sidewalk, curb and gutter shall not be placed until the following items of construction within the City street right-of-way and Public Utility Easement (PUE) are completed:

1. Installation of underground sewer and water systems and testing or televising, and approval of same by the EUD Inspector.

Completion of testing for the presence of bacteria and the water system tie-in shall not be requirements for the approval of commencement of surface improvement construction. However, the water main tie-in shall be completed prior to asphalt concrete paving. The Contractor shall schedule operations such that the curb, gutter and sidewalk pour shall not be conducted on the same day as the water tie-in.

2. Installation and mandrelling of the non-rigid underground storm drain pipe and approval of same by the City's Construction Inspector.
2. Installation of electric, natural gas, telephone, traffic signal (including interconnect) and cable TV, including mandrelling and testing of all conduits, installation of 4x4 markers a minimum of two feet high, painted red, buried at the crossing ends (if conduit ends do not extend up from finish grade). This includes all dry utility crossing and longitudinal trenches.

4. Backfill and compaction testing of all trenches related to the above and approval of same by the City's Construction Inspector.

All aggregate base and subbase (AB and ASB) shall be installed per provisions in Sections 25 and 26 of the Caltrans Standard Specifications. AB and ASB shall be compacted to 95% relative compaction. An oil seal is not required on the AB surface. If required by the City's Construction Inspector, AB and ASB shall be tested for compaction and approved by geotechnical engineer, licensed in California. It shall be proof rolled as specified in Section 71-4A.1 above if requested by the City's Construction Inspector. Written certification of compliance to these requirements shall be provided to the City's Construction Inspector.

Aggregate base shall be installed as a base for asphalt concrete paving where specified on the approved plans including over lime and fly ash or cement treatment is used.

Aggregate base in any thickness determined by the contractor may be used for meandering sidewalk wherever that sidewalk is not connected to the back of curb, or as a base for A-7 driveways outside the sidewalk at the curb returns. All aggregate base shall be compacted to 95%.

Where lone valley gutters are placed within the City pavement as in an alley, the aggregate base section for the gutter shall extend to the same depth as the aggregate base section for the adjacent asphalt concrete pavement.

Prior to paving, deflection in the compacted aggregate base shall be eliminated. Paving shall not commence without the approval of the City's Construction Inspector.

Lime/fly ash or other base stabilizers may be substituted for aggregate base as permitted in Section 71-5 D, Materials, provided a sacrificial two (2) inch thick layer of aggregate base is placed beneath the base lift of asphalt concrete, and compacted to 95% relative compaction. The City following addition and processing of lime/fly ash or cement shall require mandrelling of all non-rigid and shallow rigid underground utilities at the discretion of the Environmental Utilities or City's Construction Inspector. All utility systems shall be cleaned as appropriate. In the event a dig up and repair is required following lime/cement treatment; the entire excavation shall be backfilled with two-sack cement slurry, conforming to the Construction Standards.

C. Concrete - All concrete curbs, curb & gutters, sidewalks, curb ramps, driveways, bus stop pads and turnouts shall be installed per provisions in Section 73 of the Caltrans Standard Specifications, Construction

Standard Details ST-17 through ST-30 and ST-35 and ST-37 including the following provisions:

- 1. Thickness** - All residential and commercial sidewalks shall be either six" thick, or 4" thick with 4" of compacted aggregate base. Across commercial driveways, and round-a-bout centers the concrete section shall be eight (8") inches with grade 60, #4 rebar, and 18 inches on center each way, conforming to the Construction Standard Details.

All commercial driveways and bus turnouts shall be eight (8") inches thick, with number 4, grade 60 rebar, on 18-inch centers each way. Rebar shall be set on 3 inch concrete dobies/rebar supports at three foot maximum spacing each way. The dobies shall include wire ties. See the Construction Standard Details.

Base for commercial driveways may be processed native subgrade or 3/4 -inch aggregate base compacted to 95% relative compaction.

- 2. Finishing** - Concrete shall not be placed or finished in the rain. It shall be the Contractor's responsibility to schedule construction operations accordingly.

All gutters shall be flow tested with water during the pour to assure proper drainage. Following concrete finishing, no water shall pond in the gutter pan.

All concrete surfaces shall be completed with a medium broom finish unless otherwise specified. A heavy broom finish is not allowed. A concrete finish not conforming to the Caltrans Standard Specifications with regard to blemishes and alignment tolerances shall be cause for rejection of the work.

No stamps advertising construction companies or other private concerns shall be placed in the concrete.

A detectable warning (truncated dome) panel shall be placed at the back of curb line, immediately behind the curb and gutter, centered in the opening to the street (regardless of slope) at every curb ramp. (And shall not be sized as shown on the Case C ramp on Caltrans Standard Plan RNSP A88A) The panel shall consist of a one piece, four foot by three-foot panel. The four-foot dimensions of the panel shall be along the face of curb. The top, flat, dome panel surface (excluding the domes) shall be placed flush with the adjacent top of concrete surface.

Any runoff water standing behind the curb on the panel, or concrete voids under the panel shall be cause for replacement of the panel. See Section 71-5 (Materials).

- 3. Tool joints and score marks** - Tool joints and score marks shall be placed through the sidewalk, curb and gutter section at the following intervals for the sidewalk widths indicated. All tool joints shall be a minimum two inches. There shall be no expansion joint material used in the City right-of-way.

The purpose of the tool joint is to separate the aggregate and control cracking. During concrete finishing, after placement of a minimum two-inch deep tool joint, the joint shall be readdressed/finished with a 3/8-inch joint tool, per Detail ST-17.

Sidewalk Width (ft.)	Deep Tool Spacing (ft.)	Score Mark Spacing (ft.)
4	12	4
5	10	5
6	12	6
8	12	6
10	10	n/a

A score mark shall be placed at the back of the curb for the total length of all monolithic curb, gutter and sidewalk including through curb ramps and driveways. The above intervals for perpendicular score marks in sidewalk shall also apply through curb ramps and driveways.

All barrier curb and valley gutters shall include deep tool joints at 12-foot intervals maximum.

The use of sawcutting in lieu of deep tool joints is not acceptable.

- 4. Grades** - All sidewalks (including portions through driveways and curb ramps) shall be constructed with a minimum cross grade of 1% and a maximum of 2%. Parallel to the street, the grade of the curb ramp landing shall conform to the longitudinal grade of the street.

The cross-slope of curb ramps shall be 2.0% maximum. At pedestrian street crossing without yield or stop controls and at midblock pedestrian street crossings, the cross slope shall be permitted to equal the street or highway grade. However, the

designer should strive to hold the 2.0% cross slope before deciding to match the street or highway grade. In most cases, the 2.0% can be held and a detail would be needed to show the transition and the pavement/sidewalk conformance. To accomplish this, the gutter pan must be warped before additional slope, beyond the 2%, is introduced outside of the curb ramp itself (on the pavement and sidewalk). The cross slope of the curb ramp should also not exceed that of the crosswalk regardless of the roadway profile grade.

For all curb ramps the maximum of 8.33%.

For the ramp to the lower side of the landing, (where the ramp must be shortened to achieve the minimum 7% grade), four feet shall be the minimum length transition allowed.

For meandering sidewalks, the maximum grade in the direction of travel shall be 5% if the street grade allows. If the longitudinal street grade exceeds 5%, the curb side of the meandering sidewalk shall parallel the grade of the back of curb, maintaining a grade of 2% from the edge of sidewalk to the back of curb. For all meandering sidewalks, a minimum cross grade of 2% shall be maintained from the edge of sidewalk, across the planter to the back of curb. Where curb ramp landings adjoin the back of curb, the top of curb shall be sloped up from the gutter flow line 1.0 to 2% to the back of landing for Type 1 and Type 2, curb and gutter. See Detail ST-22.

Gutter slope from lip to flowline shall be as shown on Detail ST-17. The maximum grade shall not be greater than 5%. The minimum shall not be less than 4% for both the Type I or II curb and gutter.

The preceding slope specification conform to ADA, California Division of the State Architect, and Caltrans Standard Specification requirements. Any finished concrete not conforming to these slope specification shall be removed and replaced by and at the expense of the contractor.

5. **Monolithic sidewalk, curb and gutter** - All adjoining sidewalk, curb and gutter shall be poured monolithically.
6. **Curb and gutter installation in an existing street** - In an existing street, a minimum width of 24 inches of existing asphalt concrete paving shall be removed outside the proposed gutter lip and the lip poured against a form board. The resulting patch between the gutter lip and the existing pavement shall be six inches thick minimum, or the thickness of the existing pavement,

whichever is greater. The AC patch shall be placed within two weeks of the conclusion of the concrete pour.

The minimum waiting period for pavement patching is three days from the date of placement or, the length of time needed for the concrete to reach 80% of its required ultimate strength, whichever is more. The gutter may be placed against the existing pavement if the City's Construction Inspector determines the pavement edge is flawless. In this case, the gutter lip shall not be edged and shall be poured ¼ inch below the existing pavement.

- 7. Curb Ramps, General** - See Details ST-22, ST-26, and ST-27. Other ramp configurations in the Caltrans Standard Plans may be used upon the pre-approval of the City Engineer only if site conditions prohibit use of Roseville's standard ramps.

All grade changes at the back of walk for curb ramps shall be staked by a licensed surveyor, conforming to these Construction Standards.

Specifications for curb ramps in the Construction Standards take precedence over the Caltrans Standard Plans and Specifications. Where there are discrepancies between details shown on the approval plan sheets and the Construction Standards, the plans shall be revised to conform to the Construction Standards unless specifically approved by the City Engineer.

- 8. Epoxy Work** - Epoxy shall be liberally applied to a minimum of 95% of one of the existing surfaces to be connected. Epoxy shall be two part and conform to Section 71-5 (Materials).
- 9. No Sidewalk at Back of Retaining Curb** - At any curb ramp, no pedestrian surface (i.e., concrete, asphalt concrete, paving stones, etc.) adjacent to the back of sidewalk, shall be constructed within 3 feet behind the retaining curb. This area shall be finished with landscaping, cobbles or other non-pedestrian surface only. If the occasion arises wherein the City Engineer determines that placing concrete behind the retaining curb is justified, the top and face of the retaining curb shall be painted yellow.
- 10. Curb, Gutter and Sidewalk Patching** - Patch material shall conform to Section 71-5 (Materials). A professional concrete mason shall apply the patch. The patch shall be flush with the existing concrete and a similar finish shall be maintained. The City's Construction Inspector shall determine if the damage to the concrete warrants patching. Generally, any conspicuous damage shall be patched.

- 11. Dowelling New Concrete to Existing** - When pouring combinations of sidewalk or curb and gutter contiguous to existing, the existing concrete vertical face shall be doweled three feet on center with 16 inch long, grade 60, #4 rebar penetrating four inches into the existing curb, four inches below top of curb. The dowel hole shall be 5/8-inch diameter at a slight angle horizontally. The penetrating portion of the dowel and the entire cleaned vertical surface of the adjoining existing concrete shall be 95% coated with two-part epoxy. All abutting sidewalk shall be doweled mid-section with two dowels for four through six-foot wide sidewalk and three dowels for wider sidewalk. Abutting curb and gutter ends shall be doweled twice, 18 inches apart, centered on the curb and gutter section. See Section 71-5 (Materials) for epoxy.

Where the street side of the meandering sidewalk meets the back of Curb at less than a 90 degree angle, the return to the back of curb shall be a minimum 18 inch radius or 18 inch space shall be provided between the front face of sidewalk and the back of curb.

Replaced sections shall be removed back to score marks, expansion joints or deep tool joints; or at the discretion of the City's Construction Inspector.

If the existing edge is damaged during removal, the concrete shall be sawcut again at the City's Construction Inspector's discretion.

- 12. Sidewalk, curb and Gutter Replacement** - Where sidewalk and/or curb and gutter is being replaced, the maximum length of sidewalk that may be replaced non-monolithically (without the attached curb and gutter) is 20 feet. If more than 20 feet is damaged continuous, the total sidewalk, curb and gutter section shall be removed and replaced monolithically. Where sidewalk, curb and gutter or curb ramps and driveways with sidewalk, curb and gutter as portions thereof are replaced, all replacement shall conform to the latest Construction Standards.

- 13. Median Islands** - All new roadway median infill areas shall have basket weave pattern stamped concrete with brick red #1117 per Detail ST-37. Existing cobble medians in retrofit areas effected by utility cuts or damage will be replaced per the following:

Cobbles set in four inches of pea gravel concrete. The top surface of the concrete shall be flush with the top of curb. Where cobble demolition within a median amounts to 50% of the area or more, all existing cobbles to be removed and replaced with "Ashler Slate" per Detail ST-37, and at the applicant's expense.

Cobbles shall be four to six inches in size, with 1/3 exposed above the top of curb, per Caltrans Specifications. Base for concrete may be native soil compacted to 95% or Class II, ¾ inch aggregate base. On existing pavement, the two acceptable alternatives for base are 3/4 – inch aggregate base or total depth concrete. The surface of all embedment concrete shall be above the top of curb and graded/finished to drain.

Existing Grey stamped medians in retrofit areas effected by Utility cuts will be replaced per the following: Gray stamped concrete retrofit areas effected as described above shall be replaced in-kind with, four inches thick “ Ashler Slate” and standard color shall be basalt gray (QC Release Power Colors).

14. Damaged Gutter Lip - Gutter lip damaged during the grading and rocking operation shall be patched or replaced per Section 71-5, G. below. Any spall extending more than one inch into the gutter pan from the vertical face of the gutter lip shall be patched at a minimum. See Section 71-5, Materials.

15. Concrete and Asphalt Concrete Saw Cutting - Residual from sawcutting shall be removed by vacuum method and disposed of conforming to local environmental and State Stormwater Pollution Prevention Plan requirements. The down stream drain inlet shall be protected. In no case shall the residual be allowed to enter the storm drain system. The above-specified cleanup shall be the responsibility of the contractor.

16. Concrete Cure - All newly placed concrete shall be cured in accordance with the provisions in Section 90-7.01B of the State Standard Specifications and these Construction Standards. See Section 71-5.I. (Materials) of these Standards for curing compound. Exposed surfaces of all concrete sidewalk, curb and gutter, driveways, but turnouts and curb ramps shall be coated with a pigmented curing compound immediately following surface finishing, prior to the moisture sheen disappearing from the surface. Curing compound shall be applied at a rate of one gallon per 150 square feet, or per the manufacturer's recommendations, whichever is greater, unless otherwise specified.

D. Asphalt Concrete Paving - All asphalt concrete (AC) shall be installed per provisions in Section 39 of the Caltrans Standard Specifications, except as amended by Section 71, “Streets”, of the City Construction and Design Standards.

No paving shall occur until all underground work is completed, tested, and subgrade and/or aggregate base and/or lime and fly ash or cement treated base have been accepted by the City's Construction Inspector.

- 1) Mix Design** - The Contractor shall provide the asphalt concrete mix design to the Director of Development Services at least ten (10) working days prior to the start of the work on the project for review and approval. The mix design must be approved prior to commencement of work.

The asphalt concrete mix design shall indicate the following:

- a) Complete aggregate grading with the percentage of aggregate passing each sieve size.
- b) Percent air voids for each percentage of asphalt binder used in the mix design determination.
- c) Hveem Stability for each percentage of asphalt binder used in the mix design determination.
- d) Maximum theoretical density for each percentage of asphalt binder used in the mix design determination.
- e) Compacted unit weight for each percentage of asphalt binder used in the mix design determination.
- f) Percent asphalt binder recommended. (Optimum bitumen content, OBC).

The amount of asphalt binder (OBC) to be mixed with the aggregate for asphalt concrete will be recommended by the material supplier and approved by the Director of Development Services based on data from California Test Method CTM 367 provided by the Contractor. CTM 309 shall be used for determination of the theoretical maximum specific gravity at each asphalt binder content. However, the ratio for asphalt binder to the dry weight of aggregate shall be limited to 4 to 7 percent.

The actual asphalt cement content may vary up to 0.5% plus/minus from the target optimum bitumen content (OBC). At the OBC, the compacted mixture shall have a minimum Hveem stability of 37.

- 2) Spreading and Compaction Equipment** - The first paragraph of Section 39-5.01, "Spreading Equipment" of the Caltrans Standard Specifications is amended to read:

“Asphalt concrete shall be spread with a self-propelled asphalt paving machine.”

Asphalt concrete placed in layers of 0.15-foot and greater in compacted thickness or widths of 5 feet and greater shall be spread and compacted with the equipment and by the methods specified in Section 39, except as amended as follows:

- a. The entire contents of Section 39-5.02, “Compacting Equipment,” of the Caltrans Standard Specifications are replaced to read:

“39-5.02 Compacting Equipment-The Contractor shall furnish a sufficient number of rollers to obtain the specified compaction and surface finish required by these Specifications.
Each roller shall have a separate operator. All rolling equipment shall be self-propelled and reversible.

All rollers shall be equipped with pads and water systems, which prevent sticking of asphalt mixtures to the pneumatic or steel-tired wheels. A parting agent, which will not damage the asphalt mixture, as determined by the Inspector, may be used to aid the preventing the sticking of the mixture to the wheels.

- 3) Compacting** - The entire contents of Section 39-6-03, “Compacting,” of the Caltrans Standard Specifications, is replaced to read:

As per Section 39-6-01, “General Requirements” of the Caltrans Standard Specifications, asphalt concrete shall be placed only when the atmospheric temperature is above 50 degrees Fahrenheit, unless otherwise approved by the City Engineer. Asphalt concrete shall be spread at a temperature of not less than 260 degrees F.

A pass shall be one movement of a roller in either direction. Coverage shall be as many passes as are necessary to cover the entire width being paved. Overlap between passes during any coverage, made to ensure compaction without displacement of material, and shall be considered to be part of the coverage being made and not part of a subsequent coverage. Each coverage shall be completed before subsequent coverage is started.

Rolling shall commence at the lower edge and shall progress toward the highest portion, except that when compacting layers which exceed 0.25-foot in compacted thickness, and if directed by the Inspector, rolling shall commence at the center and shall progress outwards.

Rolling shall be performed so that cracking, shoving, or displacement does not occur.

When placing asphalt concrete, large aggregate that migrated to the surface during any handwork shall be returned to the pave box, rather than scattered over the surface of the mat.

Finish rolling or final compaction shall be completed while the temperature of the mixture is at or above 150° F. A vibratory roller may be used as the finish roller provided it is operated with the vibratory unit turned off.

Upon completion of rolling operations, if ordered by the City Construction Inspector, the asphalt concrete shall be cooled by applying water. Applying water shall conform to the provisions in Section 17, "Watering in the Caltrans Standard Specifications".

Asphalt concrete shall be compacted to not less than 92 percent or more than 96 percent of the theoretical maximum density as determined by CTM 309 and shall be finished to the lines, grades, and cross section shown on the Project Plans.

The City Inspector reserves the right to gather samples for material testing at random for the hot mix asphalt (HMA) material from behind the paving machine in accordance with CTM 125 to determine the maximum theoretical density of the HMA mixture in accordance with CTM 309. The theoretical maximum density results derived from the samples shall be averaged and used to determine the relative density achieved for the shift.

The pavement will be accepted for density on a lot basis. A lot will consist of 1,000 tons or portions thereof. Cores for determining the density of the compacted pavement will be taken on a lot basis. A minimum of three (3) cores shall be taken per lot. The density of each core shall be determined in accordance with CTM 308.

The Contractor shall provide daily laboratory results of CTM 308 and CTM 309 to the City's Construction Inspector.

In-place pavement density will be determined by comparing the density of cores taken from the compacted pavement to the theoretical maximum density as determined by CTM 309. Pavement cores shall be collected using a 4 to 6 inch diameter core barrel when the pavement has cooled sufficiently to minimize disturbance to the cores at the discretion of the City's Construction Inspector.

Finish, compacted pavement height shall be ¼-inch above and over the gutter lip, except for six (6) feet at the curb ramp opening, where it shall be flush with the top surface of the gutter lip. Corrective operations for recently placed pavement more than ¼-inch above the gutter lip may include reheat, knead and re-compact with pneumatic tired rollers, in order to bring the improvements into compliance.

The horizontal surface of AC paved against an existing AC surface shall be flush with the existing surface.

The completed surfacing shall be thoroughly compacted, smooth and free from ruts, humps, depressions or irregularities. Any ridges, indentations or other objectionable marks left in the surface of the asphalt concrete by blading or other equipment shall be eliminated by rolling or other means approved by the Inspector. The use of any equipment that leaves ridges, indentations or other objectionable marks in the asphalt concrete shall be discontinued, and the Contractor shall furnish acceptable equipment.

Asphalt concrete placed in layers less than 0.15-foot in compacted thickness or widths of less than 5 feet shall be spread and compacted with equipment and by the methods specified in Section 39 of the CALTRANS Standard Specifications.

- 4) Miscellaneous Paving Requirements** - When a straightedge 12 feet long is laid on the finished surface and parallel with the centerline, the surface shall not vary more than 0.01-feet from the lower edge of the straightedge. The transverse slope of the finished surface shall be uniform to a degree such that no depressions greater than 0.02-feet are present when tested with a straightedge 12 feet long laid in a direction transverse to the center line and extending from edge to edge of a 12-foot traffic lane.

If the finished surface of the asphalt concrete does not meet required surface tolerances, as specified above, the Contractor shall, at its own expense, bring pavement surface within tolerance by the following method:

- a. Cold plane asphalt pavement to a minimum depth of 0.15 feet from specified finish surface; (lateral limits shall be from edge of asphalt concrete to edge of asphalt concrete; longitudinal limits shall extend a minimum of 50 feet, starting from the outer edge of tolerance area and extending outward, and as directed by the Inspector). All grindings shall be removed and disposed of in accordance with Section 7-1.13, "Disposal of Material Outside

the Highway Right-of-Way,” of the Caltrans Standard Specifications.

- b.** The Contractor shall apply tack coat and place an overlay of asphalt concrete in accordance with the requirements of the City Standard Specifications.
- c.** The area to which asphalt emulsion has been applied shall be closed to public traffic. Care shall be taken to avoid tracking binder material onto existing pavement surfaces beyond the limits of construction.

Pavement within 50 feet of an approach to a bridge structure or approach slab shall conform to the smoothness tolerances specified in Section 51-1.17, “Finishing Bridge Decks”, of the CALTRANS Standard Specifications.”

The surface edges that abut the proposed asphalt concrete shall be clean and free of dirt and dust prior to placing a tack coat. Asphalt emulsion shall be used as a tack coat or paint binder on new pavement that is to receive a second lift that has been exposed to traffic or other sources of contaminants or on existing pavements that are to receive an asphalt concrete overlay and also along exposed edges of abutting pavement and concrete curbs and gutters. A tack coat may also be required between subsequent layers of asphalt concrete placed by the contractor when ordered by the City’s Construction Inspector. Asphalt emulsion shall conform to Section 92, “Asphalts”, of the Caltrans Standard Specifications.

Prior to City acceptance of the improvements (Certificate of Completion), and following the 12 foot straightedge test, and any remove and replace areas with new overlay pavement, streets may be flooded to check for standing water. This procedure may be repeated prior to the expiration of the warranty period. This may be accomplished with a water truck or with rainwater. All low areas in the asphalt concrete pavement holding 0.01-feet for longitudinal and 0.02-feet for transverse depressions or more of water shall be marked by the City’s Construction Inspector and milled 0.15-feet and replaced with similar material. A second water test may be necessary at the discretion of the inspector.

A micropave surface treatment or Caltrans slurry seal may be required at the City’s Construction Inspector’s discretion following cold planing as described above if it is determined the paving surface is sufficiently irregular, boney, discolored, or unsealed to warrant it.

The Contractor shall schedule paving operations such that at the end of each work shift, each layer of asphalt concrete is placed on all contiguous lanes and shoulders of a traveled way to be opened to public traffic.

At the end of each work shift, the distance between the ends of the layers of asphalt concrete on adjacent lanes shall not be greater than 10 feet nor less than 5 feet. A drop-off of more than 0.15-foot will not be allowed at any time between adjacent lanes open to public traffic.

Additional asphalt concrete shall be placed along the transverse edge at the end of each lane and along the exposed longitudinal edges between adjacent lanes, hand raked, and compacted to form temporary conforms. Kraft paper, or other approved bond breaker, may be placed under the conform tapers to facilitate the removal of the taper when paving operations resume.

Additional asphalt concrete surfacing material shall be place along the edge of the surfacing at private drives, hand raked, if necessary, and compacted to form smooth tapered conforms.

Longitudinal joints in successive pavement lifts shall be offset from lift to lift a minimum of one foot. The surface pass seam shall be located on the lane line. Where extruded concrete curb is removed for pavement widening, Contractor shall grind 1-1/2" of pavement between the nearest lane line and the existing curb and gutter line (including bike lanes). Following placement of the asphalt concrete base lift within the widening section, and 1-1/2" below the new gutter lip, Contractor to replace Petromat fabric or approved equal in grounded area, place asphalt concrete overlay, and restripe and/or replace any delineators removed during the grind.

Prior to permanent patching in a pavement removal area, fresh cut-back (temporary pavement) in a minimum thickness of two (2) inches shall be placed as a driving surface.

Whether the surface material is fog sealed or cutback or slurry, the Contractor shall be tenacious in maintaining the surface in a condition and to a grade comparable to the permanent patch. No other materials are allowed as temporary pavement. Placement of steel plates over fresh slurry may be employed per Section 21-2, I. 5. of these Standards.

The temporary surface shall be flush with the surrounding pavement and shall accommodate a smooth drive across it.

Sand and dirt shall not be allowed to accumulate on the slurry surface and adjacent street. It shall be swept daily if necessary.

Utility boxes in asphalt concrete, off-street paths shall include a 12-inch x 12 inch, concrete collar Type II “minor concrete” as defined in section 71-5 of these standards. The top of the collar shall be three inches below the surrounding pavement and the area shall be patch-paved with asphalt concrete as with manholes, water valves and monuments in the street way.

If a bucket or tank or diesel fuel is carried on the paver for the purpose of cleaning rakes and shovels, a container of grease sweep or equivalent absorbent material shall also be carried on the paver. All diesel spills shall be promptly cleaned up.

Where multiple and grouped HMA cores have been taken from new HMA roadways for the purpose of either additional testing and/or subsurface investigation, permanent patching shall consist of: “Squaring-Up” area to six (6) inches beyond outside edge of cores, mill pavement to .15 feet deep, place full depth HMA into core holes, then place paving fabric into milled surface, and repave these Standards. Patching limits shall be at the discretion of the City Engineer.

5) EXISTING PAVEMENT:

- a.** Cut lines made on existing pavement, both longitudinally and transversely, for the placing of new structural section shall be straight and smooth.
- b.** Edge grinding (Cold Planning) shall be required where existing asphalt is to be overlaid. The edge grind shall match the depth of the asphalt concrete overlay along the length of the gutter lip and abutting pavement where the asphalt concrete pavement is proposed to conform to the existing pavement.
- c.** Existing pavements to be overlaid with asphalt concrete shall include the installation of pavement reinforcing fabric in accordance with Section 88, Materials of the Caltrans Standard Specifications at the discretion of the City’s Construction Inspector.
- d.** Existing AC surfaces to remain shall be cut in a straight line parallel to the street centerline, and the exposed edge shall be tracked with SS1H emulsion or equivalent prior to paving. For moratorium defined streets, CRAFCO Pavement Adhesive, “Qwik Seal” or approved equal shall be used per manufacturer

recommendations. The exposed base material shall be graded and re-compacted per these Construction Standards prior to paving. Graded and re-compacted areas shall be approved by the City's Construction Inspector prior to paving.

- e. Where crack sealing is required: Cracks less than $\frac{1}{4}$ inch in width shall be sealed with SS1-H asphalt emulsion and 30 grit sand. Cracks from $\frac{1}{4}$ inch to $\frac{3}{4}$ inch shall be sealed with CRAFCO hot melt rubber sealant or approved equal. Excess sealant shall not extend more than one inch outside the crack onto the pavement surface or above the finished surface of the street. Where cracks larger than $\frac{3}{4}$ inch (or pavement alligator cracks) occur, asphaltic concrete patching may be required at the discretion of the City's Construction Inspector.
- f. Where an excavation in the public right of way is backfilled with two-sack cement slurry per these Construction Standards, the slurry may be brought to the top of the trench until permanent patching. Where rock-saw utility trenching is necessary in the bottom lift of asphalt concrete and prior to placement of top lift of asphalt concrete, the rock saw trench shall be covered with Glasgrid product (8512, with 100X200 KN tensile strength) or approved equal, at the manufacturers recommendations prior to the placement of top lift of asphalt.
- g. If the width of existing pavement between the gutter lip and excavated patch/pave area is three (3) feet or less, all existing pavement between the patch/pave area and the gutter lip shall be removed or milled 0.15 feet in depth, and patched conforming to the adjacent patch/pave area requirements.

E. Sound and Retaining Walls - Construction of sound and retaining walls shall conform to the approved plans. The City's Construction Inspector shall inspect all sound and retaining walls shown on the approved subdivision grading or improvement plans. An anti-graffiti coating per Section 71-5 (Materials) and per the manufacturer's recommendations shall be applied to the City side of all sound and retaining walls bounding the City right-of-way or to the side/surface of sound or retaining walls facing public-owned wetlands, open spaces, or parks, at the discretion of the City's Construction Inspector.

The City's Construction Inspector shall be furnished a letter from the applying contractor certifying that the coating has been applied per the Manufacturer's recommendations, prior to the Certificate of Completion.

The top course of loose block retaining wall such as “Keystone” type shall be epoxied on. The adhesive shall conform to Section 71-5 (Materials) below.

- F. Survey Monuments** - All survey monuments shall be installed per Detail ST-36.

Survey monument caps shall be peened and stamped and rebar shall be set at the back of lot prior to the Certificate of Completion.

All rear lot property corners shall be marked with a ½ inch rebar, 12 inches long, and the top flush with finish grade. All lot corners at the street shall be marked with a 1” brass marker wet set or drilled and epoxied into the back of sidewalk six inches from edge; or a saw-cut score mark, a minimum of 4 inches long and ¼ inch deep, at the back of the City sidewalk or (absent of sidewalk) back of curb, whichever applies, or as indicated on the recorded parcel or final map.

- G. Street Barricades** - All street and sidewalk barricades shall conform to Construction Standard Details ST-31, ST-32, ST-33, and ST-34, respectively. Sidewalk barricades are required at the termination of all new sidewalk improvements.

- H. Pavement Removal** - Upon demolition of concrete and asphalt concrete pavement, rubble shall be immediately removed or hauled from, and not piled in the City right-of-way. Disposal of such materials shall conform to all local ordinances and regulations of the City of Roseville and the County of Placer relation to land grading, flood plains, drainage facilities and disposal of surplus materials.

- I. Utility Boxes** - Boxes for dry utilities shall not be placed in asphalt concrete pavement, the gutter pan, in driveways or in the lower half of the ramped portion of curb ramps. Utility boxes may be placed in City sidewalk only upon the approval of the City’s Construction Inspector.

- J. Slurry Seal Follow-Up** - (For surfacing over asphalt concrete pavement) – Upon completion of any slurry seal, all loose, residual material shall be swept up and removed as soon as the slurried area is adequately cured to do so. The surface shall be maintained in a clean condition until such a time as raveling has stopped.

- K. Detector Loop Related Paving** - The minimum total thickness of paving within the area of detector loops is 4 inches. The first lift shall be a minimum three inches, and the second lift (covering the loops) shall be a minimum one-inch.

71-5 MATERIALS

- A. Aggregate Base and Subbase** - All aggregate base and subbase (AB and ASB) materials shall be Class 2 as specified on the approved improvement plans and shall conform to provisions in Section 26 of the Caltrans Standard Specifications.

Recycled asphalt concrete material may be used as AB or ASB provided the Contractor supplies the City written documentation and certification that the material meets the State's Class 2 specifications prior to placement.

- B. Concrete** - All Concrete curbs, gutters, driveways, island paving, sidewalks, curb ramps, driveways, island and colored concrete, and shall be constructed of minor concrete conforming to the provisions in Section 73-1.01 "Concrete Curbs and Sidewalks". The cementitious material content of concrete must be a least 463 lb./cu yd. for constructing minor concrete as listed above. The aggregate size may range from 3/8" to 1 inch. However, if 3/8" maximum size aggregate is used, cementitious material content must be a least 505 lb./cu yd,

All other minor concrete for extruded or slip-form curb construction, retaining wall footings, utility box collars, rock wheel backfill, and miscellaneous footings, shall be constructed of minor concrete conforming to the provisions in Section 90-2. Cementitious material content must be a least 505 lb./cu yd.

For stamped median concrete color, the standard color shall be Davis Style Tile Red #1117, or Scofield Systems, Chromix C-32 Quarry Red, or as approved equal. Apply 60 pounds per 80 square feet in two hand broadcast applications. Contractor may elect to incorporate approved color into concrete mix at 30 pounds of color (integrated into the mix), per cubic yard.

- C. Asphalt Concrete** - Shall comply with the provisions of Section 39 of the California State Standard Specifications and as modified herewith. The requirements provided within these provisions shall supersede State Specifications where conflicts or other disparities exist.

Asphalt binder shall be performance grade 64-10 paving asphalt conforming to Section 92, "Asphalt," of the Caltrans Standard Specifications.

Asphalt concrete for alley's residential and collector roadways shall be Type A, 1/2-inch Maximum Medium Gradation, conforming to the requirements of Section 39-2 of the State Standard Specifications.

Reclaimed Asphalt Pavement (RAP) up to 15% of aggregate blend may be substituted as part of the virgin aggregate for hot mixed asphalt and shall meet the State's quality specifications. RAP not permitted in OGFC or RHMA-G.

Asphalt concrete shall be hot plant mixed and shall be furnished from the plant at a temperature not to exceed 325 degrees F.

D. Lime/Fly Ash or Cement Treated Subbase - On a case-by-case basis, lime/fly ash or cement treated subbase may be an acceptable substitute for placement of compacted aggregate base material. Prior to plan approval, the Developer shall submit to the City Engineer for review and approval, a proposal for lime/fly ash or cement treatment sections and compaction procedures, accompanied by recommendations from a California licensed, geotechnical engineer. In no case shall asphalt concrete be placed directly on lime/fly or cement treated bases.

E. Truncated Domes - Truncated dome panels shall be of vitrified polymer composite construction, embedded type, or (surface applied for retrofit applications) manufactured by Armor Tile Tactile Systems, Buffalo, New York, ADA Solutions, N. Billerica, MA, or approved equal. The dimensions and interval of the truncated domes within the panel shall conform to Caltrans Standard Plan RNSP A88 and Division of the State Architect Accessibility Reference Manual, Figure No. 31-23A. The orientation of the dome pattern for all panels shall be parallel with the panel edges.

F. Graffiti Coating -Blok Guard® (Prosoco), Acryli-Master (Graffiti Master), GCP 1000 (Genesis Coatings Inc.), Prmakote 333, by Visual Pollution Technologies or approved equal, non-sacrificial type only.

G. Epoxies, Patching Material - Following are products specified for the indicated applications.

1. Bonding extruded curb to asphalt concrete pavement; bonding concrete to existing during pour; bonding the top course of loose block, sound/retaining wall: Burke Epoxy Binder 2104 Type 1 (Supplier: Whitecap), Rezi-Weld 1000, (Supplier: Spec-West), Sealtight Rezi-Weld ER-43 Type I, (Supplier: Spec-West) or approved equal.

2. Anchor Bolts: Seal Tight Resi-Weld Gel Paste Unitized Cartridge Epoxy (Supplier: Spec West), Covert Operations CIA Gel 7000 (Supplier: White Cap) or Rebar SETXP (Supplier: White Cap, Home Depot), SpecPoxy 2000 by SpecChem or approved equal.

3. Patching: Patchcrete (Supplier: Spec-West), Emaco R350CI Repair Mortar (Supplier: White Cap), Ardex CP (Supplier: Spec-West) or approved equal.

H. Reinforcement Bar - Rebar shall be grade 60 steel, deformed type. Smooth bar shall not be allowed. All rebar shall be number four (4) unless otherwise specified on the plans.

I. Concrete Curing Compound - Curing compound shall conform to ASTM C-309. Type 1-D and Class B, resin base, clear with fugitive red dye. Approved products include Burke Aqua Resin Cure (with dye), W.R. Meadows 1100- Clear Series (with dye) or approved equal.

J. Slurry Seal - Slurry seal shall conform to Caltrans Specifications, Section 37-2, and Type 2. A design mix shall be submitted to the Development Section for approval prior to commencing work.

SECTION 81

DOMESTIC WATER SUPPLY SYSTEM CONSTRUCTION

81-1 GENERAL- All potable water pipe, fittings, gate valves, fire hydrants, blow-offs and other appurtenances shall be installed in accordance with the requirements of the American Water Works Association (AWWA), these Construction Standards, and as recommended by the manufacturer. These Construction Standards and manufacturer's guidelines shall be present at the construction site at all times.

81-2 CONNECTION TO EXISTING FACILITIES- Connection to existing City water facilities may be made upon approval from the Environmental Utilities Department.

A. The Environmental Utilities Department has the option of making a system tap as required on the plans. Should the Environmental Utilities Department elect to perform the tap, the Contractor shall pay for such work on a time and materials reimbursement basis. The Contractor shall be responsible for the following tasks associated with the tap as determined by the Environmental Utilities Department:

1. Coordinating the work requested with the Water Division and the Environmental Utilities Department Inspector. This shall include discussions on provisions for materials and equipment required to complete the work.
2. Traffic control per the City's Public Works Department requirements.
3. Excavating the work area, as agreed upon by the Environmental Utilities Department Inspector.
4. Sheeting, shoring, and bracing as required.
5. Lighting as required if the tap is to be performed at night.
6. Backfilling, compacting, and pavement restoration of the excavation(s) upon tap completion.

B. The Contractor shall tie-in the new system to an existing stub under the following conditions:

1. With specific approval of the Environmental Utilities Department inspector.

2. Care shall be taken to provide a clean, sanitary tie-in site.
3. Dewatering of both the new and existing water mains shall take place in a way as to prevent contamination by trench water.
4. All material used in the tie-in shall be clean and swabbed with chlorine to the satisfaction of the Environmental Utilities Department inspector.
5. All tie-ins shall take place in the presence of the Environmental Utilities Department inspector.
6. Tie-ins may take place only after the newly constructed water system has successfully passed all required testing procedures as established in these Construction Standards and as determined by the Environmental Utilities Department inspector.
7. Under no circumstances shall anyone other than a representative of the Environmental Utilities Department Water Division open or close valves in a City-operated system.

81-3 CONSTRUCTION STAKING- The water main shall be staked prior to excavation. Staking shall provide the station and the offset to the water main, as well as the cut to the nearest one-tenth foot (0.1'). Stakes shall be provided at a minimum of every 50 feet in tangent sections, every 25 feet in curved sections, and every 10 feet in approved vertical curve sections.

81-4 EARTHWORK- Earthwork required to construct water facilities and appurtenances shall be performed to the lines and grades shown on the approved project plans and as specified below:

A. Excavations- Pipeline excavations shall be open-cut trenches, unless otherwise specified on the approved improvement plans, with vertical sides to the pipe crown as specified on Construction Standard Detail W-1. Excavations shall conform to all applicable Federal and State safety requirements. The contractor shall appoint a designated "competent person" during construction.

B. Trench Width- The trench bottom width to 6 inches above top of pipe shall comply with Construction Standard Detail W-1 or as approved by the Environmental Utilities Department.

C. Compaction- Compaction of the trench shall conform to Construction Standard Detail W-1. Compaction test results shall be supplied to

Environmental Utilities Department upon request. Jetting of trenches is not allowed.

D. Weather- During inclement weather, trenches shall be excavated only as far as pipe can be laid and backfilled during the course of the day.

E. Existing Roadways- Trenching in existing roadways shall be limited to the length of pipe that can be laid that day. No open trenches shall be left overnight. Exposed trenches shall be plated and backfilled as approved by the Environmental Utilities Department inspector and the Public Works Department.

F. Excess Material- Excess material and materials determined unsuitable for backfill by the Environmental Utilities Department inspector shall be removed from the project site.

81-5 DEWATERING- Dewatering for the installation of structures and pipelines shall commence when groundwater is first encountered and shall be continuous until the excavation is backfilled. Best Management Practices including but not limited to scouring and erosion measures shall be used to eliminate sediment-laden discharges in accordance with the approved SWPPP.

81-6 PIPE BEDDING- Pipe bedding shall conform to Detail W-1 and the following:

A. Bedding shall provide uniform and continuous support along the barrel of the pipe. The minimum depth of bedding material shall be provided under the bell. Blocking of the pipe is not permitted.

B. Loose material shall be removed from the trench bottom and replace with imported material.

C. Where rocky, unyielding, or unsuitable foundation material is encountered, the subgrade shall be excavated a minimum of 12 inches below the pipe and the trench width shall be increased a minimum of 12 inches. The over-excavation shall be replaced with imported material.

D. Where the trench bottom is soft, yielding or unstable, the trench bottom shall be over-excavated. Three-quarter inch crushed rock shall be placed in the trench to provide a stable foundation. The rock is in addition to the required pipe bedding used in the pipe zone.

E. Bell holes shall be excavated per manufacturer's recommendations. The minimum depth of bedding material shall be provided under the bell.

Care shall be taken to ensure that the bell hole is no larger than necessary to accomplish proper joint assembly.

81-7 CONCRETE CRADLES, ARCHES ENCASEMENTS and TRENCH DAMS- Concrete cradles, arches and encasements shall conform to Construction Standard Details W-23, W-24, and the following:

- A.** The pipe shall be placed in proper position on temporary cradles or arches consisting of concrete block or bricks. When necessary, the pipe shall be rigidly anchored or weighted to prevent flotation when the concrete is placed.
- B.** Cradles and arches shall be constructed with an ability to adjust the pipe to proper grade in order to avoid vertical joint pull. Cradles and arches shall be placed at one-third and half-way points along each pipe segment where specified. Concrete placed beneath the pipe shall be sufficiently workable to fill the voids without excessive vibration. The concrete shall be allowed to cure and remain undisturbed for a minimum of 24 hours prior to backfill and compaction of the trench.
- C.** Restrained pipe within casings, bridges, shall be fully extended or “stretched out” to remove the slack between the joints the entire length of the structure.
- D.** Water shall not be permitted to enter, seep or run onto the concrete while curing.
- E.** Trench dams shall be constructed of controlled density fill or clay as shown on the drawings or as directed by the Environmental Utilities Department inspector. Trench dam excavations shall be made into native earthen materials to the dimensions shown on the drawings or as directed by the Environmental Utilities Department inspector. Clay materials shall be moisture conditioned to near-optimum moisture content prior to placement in the excavation and compacted to the required relative compaction.

81-8 PIPE ZONE BACKFILL- Pipe zone backfill shall conform to Construction Standard Detail W-1 and the following:

- A.** Extreme care shall be taken when consolidating the backfill around the pipe zone. For pipe 12 inches in diameter and smaller, no more than one-half of the pipe shall be covered prior to shovel slicing the haunches of the pipe. For pipe greater than 12 inches in diameter, no more than the lesser of 6 inches or one-third of the pipe shall be covered prior to shovel slicing. Sufficient care shall be taken to prevent movement of the pipe and damage to the polyethylene encasement during shovel slicing.

Shovel slicing shall be witnessed by the Environmental Utilities Department Inspector prior to shading the pipe.

B. Compaction equipment shall not make direct contact with the pipe.

81-9 PIPE INSTALLATION- Water pipe shall be installed in accordance with the following provisions:

A. The contractor shall keep the pipe interior free from foreign materials and in a clean and sanitary condition until acceptance by the City. At times when pipe-laying is not in progress, the open pipe end shall be sealed with a tight cap or plug to prevent foreign matter from entering the pipe. Provisions shall apply to the noon-hour as well as overnight.

B. Trenches shall be in a reasonably dry condition when pipe is laid.

C. Care shall be taken when lowering pipe into the trench to protect the pipe from damage. Chains are not permitted. The pipe shall be laid carefully to the lines and grades shown without grade breaks, unless designed with such, or to minimum depths shown on the approved plans. If field conditions exist such that the pipe may not be laid to the specified grade, the approved plans will require revisions prior to proceeding with construction.

D. Pipe sections shall be closely jointed to form a smooth flowline. Care shall be taken in placing the pipe and making field joints.

E. No facility is to be backfilled without inspection by the Environmental Utilities Department. Improvements installed without proper inspection shall be exposed and inspected as required by the Environmental Utilities Department inspector.

F. All installations shall follow manufacturer's recommendations unless otherwise noted on the approved plans. The manufacturer's installation guide shall be on the job site at all times.

G. Pipes shall be mechanically restrained to the length specified in the approved plans, using materials specified herein.

1. Thrust blocks shall only be used where specifically shown on the plan /profile sheets and/or standard detail sheets. All fittings and appurtenances shall maintain a minimum of 18 feet of restrained pipe into the fitting from all directions. Plans should reflect the restraint lengths required for each segment and transition.

- H.** A continuous number 12 insulated tracing wire shall be attached to mains, service lines and appurtenances per the Construction Standard Details and the following:
- 1.** Tracing wire shall be continuous between mainline valve boxes and fire hydrants. It shall be attached to the top of the pipe with 10-mil vinyl tape every 5 feet.
 - 2.** Tracing wires through valve boxes shall be placed outside of riser, but inside the box.
 - 3.** Tracing wire in manholes and vaults shall be attached inside the facility within one foot of the rim.
 - 4.** Wire splices shall be located above ground and inside of valve boxes, per Details W-16, W-17, and as follows:
 - 4a.** Twist the wire together with a minimum of 5 twists.
 - 4b.** Install a copper split bolt connector on the splice.
 - 4c.** Solder all connections.
 - 4d.** Cover the splice with mastic tape and wrap with vinyl tape.
- I.** A 12-inch wide, blue plastic non-detectable water pipe marking tape, marked "Buried Water Main Below," shall be placed in all main line trenches, 12 to 24 inches from the surface. Where a water main and recycled water main intersect, the plastic marking tape shall also be attached to the top of the pipe with nylon tie-wrap banded around the warning tape and the pipe every five feet on center. The warning tape shall extend to the nearest valves located on each side of said intersection.
- J.** Mains in unpaved areas shall be marked every 150 lineal feet with a blue composite utility marker having a decal stating: "Caution Water Pipeline." Appurtenances (valves, ARV's, test stations, etc.) and angle points shall also be marked. Mains in landscaped areas shall be delineated with a brass marker set in an 8-inch concrete cylinder 4 inches above finished grade. The brass marker shall state "City of Roseville Water Main."
- K.** All underground metal (ductile iron, valves, fittings, copper, brass, etc.) shall be wrapped in 8-mils minimum thickness polyethylene encasement with ends taped off with vinyl pipe wrap tape.

L. Polyvinyl Chloride (PVC) Pressure Pipe Installation- PVC shall be installed in accordance with the AWWA Manual M23 and the manufacturer's recommendations, except as otherwise provided herein:

1. PVC Pipe shall have been manufactured within the 18 month period prior to installation.
2. Pipe and gaskets shall be kept clean and protected against sunlight and heat damage.
3. Pipe showing signs of physical damage or excessive ultraviolet exposure will be rejected and shall be immediately removed from the job site.
4. The pipe shall be installed with the manufacturing label showing on the top.
5. The reference mark or stab line on the spigot end must be flush with the bell end and visible for inspection.
6. The beveled end of the pipe shall be cut off before placement into a mechanical joint.
7. Minimum length of pipe for installation shall be 5 feet.

M. Ductile Iron Pipe (DIP)- DIP shall be installed in accordance with the standards for "Installation of Ductile Iron Water Mains and Their Appurtenances" (ANSI/AWWA C-600) and the manufacturer's recommendations, and as provided herein:

1. DIP shall be polyethylene-encased in accordance with these Construction Standards and the standard for "Polyethylene Encasement for Ductile-Iron Piping for Water and Other Liquids" (ANSI/AWWA C-105/A21.5). Polyethylene-encased pipe shall be bedded and backfilled with pea gravel to 4 inches above the crown of pipe.
2. At the direction of the City, the Contractor shall repair damages to the polyethylene encasement as described within ANSI/AWWA C-105/A21.5 or shall replace all damaged polyethylene film sections.
3. Metallic lines shall be exothermically welded and electrically continuous on DIP runs exceeding 100 feet or as approved by the Environmental Utilities Department Director. Each joint shall have two individually welded wires. Exothermic welds shall be installed per Detail W-20 and as follows:

- 3a.** Weld only against bare metal on both the bell and spigot ends of pipe.
 - 3b.** Care must be taken not to remove excess metal when removing the pipe coating.
 - 3c.** After a solid weld is made, coat the bare metal with an acceptable bituminous coating material and cover with a plastic protective cap or approved equal.
 - 3d.** DO NOT weld onto valves.
- 4.** Corrosion test stations shall be installed on metallic lines at intervals not to exceed 1,000 lineal feet or as specified on the approved plans.
- 5.** DIP cuts shall be coated with an approved bituminous material.
- 6.** Minimum length of pipe for installation shall be 2 feet.
- N. Ductile Iron Pipe Fittings-** In addition to requirements set by these standards, fittings shall be constructed per the following requirements. Mechanical joint fitting bolt threads and nut shall be coated with an approved bituminous material. Flanged bolt heads and threads shall be coated with an approved bituminous material.
- O. Transitions between DIP and PVC shall be made as follows:**
 - 1.** A PVC pipe spigot may be inserted into a DIP bell by cutting off the PVC bevel on the spigot, and leaving no more than a 1/2-inch taper. An Environmental Utilities Department Inspector shall be present to witness this process.
 - 2.** Transitions may be made by the use of DIP repair sleeve.
- P. Boring -** Borings for installation of water lines shall be made per Detail W-22 and as follows:
 - 1.** The equipment, method and sequence of operation and casing pipe grades shall be approved by the Environmental Utilities Department. A minimum of 48 hours' notice shall be given prior to the start of work. Excavation for the boring operation shall be the minimum necessary to satisfactorily complete the work. Bracing, sheeting, and shoring shall be adequate to protect workers and any adjacent structure or roadbed.

2. **Casing** - Welded steel casing pipe shall have a minimum wall thickness of a ¼-inch for pipe 24 inches in diameter and under, and 5/16-inch for pipe 27 inches through 36 inches in diameter. Casing material larger than 36 inches shall be engineered on a case by case basis. The inside diameter of the casing shall be a minimum of 10 inches larger than the outside diameter of the pipe bell or joint, as approved by the Environmental Utilities Department. A minimum of 4 inches clearance shall be required between the conducted pipe and the casing taking the skids into consideration.
3. **Installation of Casing** - The casing shall closely follow the boring operation. The bored hole shall not be more than one-tenth foot (0.10') larger in diameter than the outside diameter of the casing. Guide rails shall be accurately set to line and grade to insure installation of the casing within allowable limits.
4. **Placing Pipe in Casing** - Pipe shall be fully restrained ductile iron pipe and shall be supported by a minimum of two sets of synthetic skids per stick of pipe, or as required by the Environmental Utilities Department. Skids shall be tightly banded to pipe with steel straps. Pipe sections shall be joined outside of the conductor. The skids and casing entrance shall be lubricated prior to sliding the conducted pipe into place. The height of the skids may be adjusted to meet specified grades.

The space between the conducted pipe and casing shall be completely filled with clean, dry silica sand, blown into place. First, both ends of the casing shall be plugged with non-shrink grout a minimum of 12 inches into the casing. Both ends shall have a pipe of sufficient diameter placed through the mortar plug and parallel with the conducted pipe. One pipe shall be used for blowing the sand into the annular space. The other pipe shall remain open for venting. Prior to starting, the method of placing sand in the void shall be approved by the Environmental Utilities Department.

5. **Backfill of Voids** - When in the opinion of the Developer's design engineer or geotechnical engineer, the nature of the soil indicates the likelihood of ground loss which would result in a greater space between the outer surface of the casing than allowed, the Contractor shall take immediate steps to prevent such occurrences by installing a jacking head extending at least 18 inches from the leading edge of the casing.

The jacking head shall cover the upper two-thirds of the casing and project not more than 1/2-inch beyond the casing outer surface. Excavation shall not be made in advance of the jacking head. Voids

greater than allowable shall be filled with sand, soil, cement, grout, or as approved by the Environmental Utilities Department. Where voids are suspected, the design or geotechnical engineer may direct the Contractor to drill the casing, to pressure inject grout to refusal and repair the drilled hole. Grouting pressure shall not exceed 50 pounds per square inch at the nozzle

6. Utilizing the City's drainage system for residual discharge from boring operations without the required measures is prohibited. This discharge is a violation of the City's Stormwater Ordinance and the Clean Water Act. Discharge fluid shall be recovered, contained and discharged at an appropriate location, or if the situation allows, fluid may be discharged into an open area with the pre-written approval of the property owner and approval from the Regional Water Quality Control Board provided it does not impact sensitive areas such as wetlands, creeks, or other natural water conveyances.

All street borings shall include adequate measures to mitigate sediment laden water discharge. An acceptable measure is pumping the discharge fluid into a tanker and hauling it away. Other measures suggested by the Contractor will be considered by the City.

Q. Vertical Elevation Change- Mains designed with a vertical elevation change using angle fittings shall use ductile iron pipe with an approved restraint system between the two angle fittings.

R. Bridges and Casings- Pipe within bridges and casings shall be fully restrained and fully extended prior to closure.

81-10 SERVICE INSTALLATION- Water services shall be installed in accordance with manufacturer's recommendations, the Construction Standard Details and with the following provisions. Refer to the Table 1 or "Meter Application Table" for meter lay lengths.

- A. Services shall be continuous from the main line to the service box. Bends in copper tubing shall be made in a manner that does not crimp or flatten the tubing.
- B. Taps, service saddles and fittings attached to mains shall be separated from each other by a minimum of 24 inches.
- C. Service saddles shall be wrapped and sealed in 8-mil minimum thickness polyethylene and backfilled with sand. Use pipe wrap tape to secure and seal the polyethylene wrap.

D. Service lines shall be encased in 8-mil minimum thickness poly tubing and backfilled with clean washed well graded sand (100% passing #4 sieve and less than 10% passing #100 sieve. Use pipe wrap tape to secure and seal the polyethylene wrap.

E. Service manifolds shall be constructed per the following criteria:

1. Where a service line is extended a distance greater than 40 feet, a construction jumper shall be installed per Construction Standard Detail W-15. The new service line and manifold shall be tested in accordance with these Construction Standards.

Where a service line is extended a distance less than 40 feet, the extension shall be cleaned, swabbed with chlorine and flushed in the presence of the Environmental Utilities Department Inspector. The new service line and manifold shall be pressure tested in accordance with these Construction Standards.

In both cases, the installation shall be fully restrained by an approved restraint system, starting at the main and as required by the approved Improvement plans.

2. Service lines and manifolds 3 inches and larger shall be ductile iron.
3. No water shall be drawn through a service prior to installation of the water meter and testing of the backflow assembly.

F. A backflow assembly shall be required for construction and sales trailers having a landscape irrigation system or a septic holding tank.

G. Backflow assemblies shall be covered with a freeze protection insulated bag per these Construction Standards.

H. The curb in front of residential water services shall be stamped with a "W."

I. Service saddles shall be installed with zinc caps on all bolts, per these Construction Standards.

81-11 ABANDONMENT OF SERVICES AND MAINS- All water services requiring abandonment shall be disconnected from the main line at the corporation stop unless otherwise approved by the Environmental Utilities Department. Mainline stubs shall have the valve removed and replaced with a blind flange or as approved by the Environmental Utilities Department. The abandoned piping shall be removed or left in place as approved by Environmental Utilities Director

81-12 APPURTENANCES INSTALLATION- All appurtenances, including fire protection, blow-offs, sample stations, air release valves and fire hydrants shall be installed in accordance with manufacturer's recommendations, these Construction Standards and the following provisions:

- A.** All valves, fittings, DIP, cooper and underground brass shall be wrapped and sealed in a 8-mil minimum thickness polyethylene encasement. Use pipe wrap tape to secure and seal to the polyethylene encasement. Damaged or scratched surfaces on epoxy coated valves and appurtenances may be repaired with an epoxy kit per manufacturer's recommendations and to the satisfaction of the Environmental Utilities Department Inspector prior to wrapping. Otherwise, the damaged valve shall be replaced with a new valve.
- B.** Gate valves shall be centered in a one-piece riser stock. An operator nut extension shall be installed on valves where the operation nut exceeds 40 inches in depth from final grade. Valve extensions shall be continuous and within 24 inches of finished grade.
- C.** Buried nuts and bolts shall be coated with a bituminous material. This includes exposed bolts found on a manufactured appurtenance (i.e., valve bonnets, etc.) "T" bolt heads do not require coating.
- D.** Break-away bolts shall be used in connecting the fire hydrant to the hydrant break-off spool. Bolts shall be installed nut side up with the bolts filled and covered with silicone caulking. Clearance shall be made for removal of all bolts.
- E.** Fire hydrants shall be marked with a blue reflector placed 1 foot off of street centerline on the fire hydrant side of the street. Fire hydrants located at intersections shall be marked on both streets.
- F.** Fire hydrants shall be painted with two coats safety yellow enamel paint. "When used as blow-offs, the top 2 inches shall be painted white and marked with an "X" with black enamel paint. Private hydrants shall be painted white.
- G.** Dead-end lines, permanent and temporary, shall have a blow-off constructed per Construction Standard Detail W-4 and marked with a Carsonite marker.
- H.** Insulating kits shall be installed at transitions between dissimilar metal pipes per the Construction Details and as required by the Environmental Utilities Department.

81-13 TESTING PROCEDURES-Testing of the water system may proceed only after joint utility crossings are completed, the sewer mains and services have passed pressure test and TV inspections, the recycled water system has passed testing, and subgrade elevations have been met. Road bases to be lime-treated shall be pressure tested before and after the lime treatment process. Testing prior to subgrade placement may be subject to additional pressure tests at the discretion of the Environmental Utilities Department inspector. The new system shall be filled with potable water through an approved backflow device.

A. Pressure Test:

1. Contractor shall verify with the Environmental Utilities Department inspector that all system valves are open prior to testing.
2. The Environmental Utilities Department inspector will be present during the duration of the test.
4. Pressure testing shall be conducted for two hours at 150 pounds per square inch or at one-and-one-half times the operating pressure, whichever is higher, as measured from the system high point. The test gauge shall be liquid-filled and capable of testing up to 300 psi.

B. Chlorine Disinfection- Topside Improvements – When all water, recycled water and sewer infrastructures have passed air, vacuum, pressure and continuity test as well as CCTV inspection the EU inspector shall send a memo to the Development Services Inspector indicating that the project is ready for road bases and top side improvements only. This does not constitute approval for use of the infrastructure.

C. Chlorine Disinfection- Chlorine disinfection shall comply with the American Water Works Association Standard for Disinfection of Water Mains (C651-92) and as specified below:

1. Disinfection inspections shall begin only after passing the pressure test.
2. Prior to chlorination, pre-flush water mains and services. Pre-flushing is not permitted if using the Tablet Method for chlorination.
3. Chlorine shall be drawn through all mains, hydrant runs and services. The Environmental Utilities Department Inspector shall verify that a minimum chlorine residual of 50 parts per million (ppm) has been achieved.

4. After a 24-hour holding period, the Environmental Utilities Department inspector will verify that a minimum chlorine content of 25 ppm remains in the system.
5. Upon approval by the Environmental Utilities Department inspector, the water system shall be flushed to remove concentrated chlorine. Flushing shall be continued until the remaining water has a chlorine residual below 1 ppm and a turbidity equal to or less than 1 NTU. Chlorinated water shall be neutralized to 1 ppm chlorine residual or less prior to discharge. Discharge location and neutralization methods shall be documented in the SWPPP and coordination with and approved by the Environmental Utilities Department inspector.
6. Chlorinated water resulting from flushing newly installed water lines may be discharged into the City's sewer system with the specific permission of the Environmental Utilities Department.

Prior to discharging into the sewer system, the Contractor shall sign a form authorizing the Environmental Utilities Department to bill for the amount of water discharged into the system. At the end of each flushing exercise, and prior to tying into the City water system, the Environmental Utilities Department inspector shall prepare a bill for water usage based on the meter reading. This bill must be paid before the project is signed off by EUD.

The discharged chlorinated water shall be classified as "low-strength metered commercial users" under Title 14.16.220 of the City of Roseville Municipal Code. The sewer unit for low-strength metered commercial users shall be one sewer unit per 1,000 cubic feet. The Environmental Utilities Department shall determine the volume of discharge. Chlorinated water shall not be disposed of into environmentally-sensitive areas (i.e., under oak trees, vernal pools, man-made or natural streams, drainage systems, etc.) during any time of the year.

All discharges into the sewer system shall be governed by the following conditions:

- 6a. Water used for the purpose of flushing shall be metered.
- 6b. Discharge into the sewer system shall be done in such a manner as to avoid surcharging the sewer system.
- 6c. No discharge into the sewer system shall be permitted on rainy days.

6d. No discharge shall be permitted upstream of a small lift station.

6e. An approved air gap shall be maintained at all times. Air gap distances shall be calculated as 2.5 times the pipe diameter. In no case shall the air gap be less than 12 inches.

D. Water Quality Testing- Water quality samples shall be taken per the following procedure:

1. Once flushing has lowered the chlorine residual below 1 ppm and the turbidity is equal to or less than 1 NTU, the water system shall observe a minimum 24 hour detention time. Water may not be drawn during this time period.
2. After the 24-hour holding period has elapsed, water quality samples shall be collected by the Environmental Utilities Department Inspector for testing by the City's laboratory.
3. The laboratory shall conduct a final chlorine and turbidity test. If the sample lot does not meet the minimum chlorine residual and turbidity criteria, additional flushing shall be required. The procedure shall be repeated until the criteria are met.
4. The laboratory will require 48 hours to complete total coliform and total plate count tests. Actions allowed based on test results are as follows:

Pass Coliform Test		
(Coliform not present?)	Plate Count Results	Action
Yes	0-1,000	Connect to City
Yes	1,000-1,250	Flush water system and re-test
Yes	1,250+	Flush and re-chlorinate water system and re-test
No		Flush and re-chlorinate water System and retest

E. Tying onto the City System- A tie-in procedure shall be submitted and approved by the Environmental Utilities Department prior to the proposed work. The Contractor shall allow for up to seven days review of the procedures by the Environmental Utilities Department. The water system shall be tied into the City system within 10 working days upon completing and passing all the testing procedures. Tie-ins shall be conducted as specified in Section 81-2 of these Construction Standards.

After the tie-in has been made, the Contractor shall flush the segment tied-in to the approval of the Environmental Utilities Department Inspector.

1. If the new water system cannot be tied into the City system within 10 working days, the new system shall maintain a chlorine residual of 0.5 to 1.0 ppm or be subject to water quality testing and re-chlorination. This shall be discussed with the Environmental Utilities Department Inspector.
2. On-site private systems may connect onto the City System upon passing all testing procedures, backflow tests, and meters have been paid for and installed. A tie-in procedure shall be required per this section.

F. Continuity Testing- The Environmental Utilities Department will test continuity of the tracing wire with City standard locating equipment upon request for testing by the Contractor. Discontinuity in the tracing wire shall be repaired. It is recommended that the Contractor request continuity testing after subgrade is made, but before asphalt is placed. Final continuity testing will take place after asphalt is placed and all valve boxes are raised. Costs for said inspection shall be borne by the Contractor. Preliminary inspections may be performed by outside Contractors, but shall not be accepted by the Environmental Utilities Department as an official record.

G. Corrosion Protection System Testing- At the completion of the pipe installation and prior to curb and gutter, the corrosion engineer shall conduct a test of the corrosion monitoring system in the presence of the environmental utilities Department inspector. A report showing the test results shall be submitted to the Environmental Utilities Department for review and approval. The report shall include test station locations as called out on the approved plans, appurtenance tested, test result, and recommendations for future monitoring and maintenance.

81-14 REPAIRING INSTALLED IMPROVEMENTS- All PVC and DIP water mains shall be repaired per the following procedures:

- A.** Damaged or failed pipe sections shall be removed and replaced with new pipe in the presence of the Environmental Utilities Department inspector. Replacement can be accomplished by the use of City approved ductile iron mechanical joint repair sleeves. Pipe restraints will be required.

B. After the repair has been completed, the excavation shall be backfilled and compacted to grade as specified. The repairs shall then be retested per these Construction Standards.

C. At the direction of the City, the Contractor shall repair damage to the polyethylene encasement as described within ANSI/AWWA C-105/A21.5 or shall replace all damaged polyethylene film sections.

81-15 PUNCHLIST PROCESS- When the Contractor is satisfied that all improvements are substantially complete; a punchlist of final outstanding items may be requested. With the assistance and presence of the Contractor, the punchlist shall be generated by the Environmental Utilities Department Inspector and Water Distribution Division. The cost of generating the punchlist shall be borne by the Contractor/Developer.

A. Pre-final Requirements

In order for Environmental Utilities Department it install meters to any new residential buildings (model or production homes), the following requirements must be met:

1. The meter box must be set to finished grade. The contractor shall make sure that debris is not entering the meter box;
2. The meter box must be squared to adjacent sidewalk or property line;
3. The meter box must be in a structurally sound condition (no cracks or visible damage);
4. The box shall be cleaned/free of debris.

81-16 MATERIALS

A. Approved Equal- The words “approved equal” shall mean any material deemed by the Environmental Utilities Department to be acceptable for use within the City’s water system as compared to products of specified manufacturers. Contractors proposing to use materials which are not specifically named shall submit all necessary documentation to allow review of said material for use as an approved equal. The submittal shall include a letter with:

1. Product- A description of the product and the appropriate materials specification section number. A sample of the product may be required for review and testing.
2. Contact- The name and telephone number of the contact person for the proposed product.

3. Reference- A list of a minimum of three agencies that are using the proposed product (include names and telephone numbers).
 4. Performance- Information and reference for three locations with a performance record of three years in operation of the installation.
 5. Address the letter to the Environmental Utilities Department Engineering Division at 2005 Hilltop Circle, Roseville, CA 95747 Attn: EUD, Chairman of METAC. City staff may request a sample of the product for review.
 6. The contractor shall submit all material for review 35 days prior to contract award. All submittals shall include documentation verifying contract award date. Contractors shall allow two to four weeks review time by the Environmental Utilities Department.
- B. Conditionally Approved Material-** Materials or products that have met the reference and performance requirements shall be conditionally approved for a minimum trial period of 2 years. Upon completion of the two year period, the product may be approved, the evaluation period may be extended, or the product may be denied approval as determined by the Environmental Utilities Director. A list of conditionally approved products may be obtained from the Environmental Utilities Department.
- C. Material Defects and Failures-** Defective material and failures shall be reported immediately. The date of sale, manufacturing dates, lot numbers, and all other identifications shall be provided to the Environmental Utilities Department.
- D. Unapproved Materials-** Materials not approved for use on the project shall be removed from the site within 24 hours as requested by the Environmental Utilities Department Inspector.
- E. Water Main-** Unless noted on the approved plans, all water mains shall be either Polyvinyl Chloride Pressure Pipe (PVC) or Ductile Iron Pipe (DIP).
1. PVC Pressure Pipe-PVC Pressure Pipe shall be manufactured to a minimum Class 150 rating and shall conform to the "Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 6 inches through 12 inches, for Water" (AWWA C-900), and shall also include the following:
 - 1a. PVC Pressure Pipe shall be blue or white in color and shall have been manufactured within 18 months of installation. The pipe shall be manufacturer date coded and the City provided the

manufacturer's coding for translation. Sun damaged pipe may be rejected at the inspector's discretion.

1b. Rubber rings shall conform to the "Standard Specifications for Elastomeric Seals (Gaskets) for Joining Plastic Pipe" (ASTM F-477).

1c. Approved PVC Pressure Pipe manufacturers include: Certain Teed Certa Lock, Diamond Plastics Corporation, J-M Manufacturing, Pacific Western Pipe, Vinyl Tech-White Knight, Pressure – Flex Pipe, PW-Eagle, North American Pipe Corporation, or approved equals.

2. Ductile Iron Pipe- DIP shall be manufactured to conform to the standards ANSI/AWWA C-150/21.50 thickness design of ductile iron pipe and to "Ductile Iron Pipe Centrifugally Cast in Metal Molds or Sand-Lined Molds for Water and Other Liquids" (ANSI/AWWA C-151/A21.51) and shall also include the following:

2a. DIP shall be cement-mortar lined in accordance with the standard for "Cement-Mortar Lining for Ductile Iron Pipe and Fittings for Water" (ANSI/AWWA C-104/A21.4).

2b. Approved DIP manufacturers include: Pacific States, Tyler, US Pipes, Griffin, American or approved equals.

F. Services

1. Brass Material - In compliance with California State Assembly Bill 1953 and any amendments thereto, all brass components and pipe in contact with potable water intended to convey or dispense water for human consumption through drinking or cooking shall contain a maximum of 0.25% lead by weight. Compliant brass product shall be marked indicating the product is manufactured from a low-lead alloy. Non-compliant product shall be immediately removed from the construction site.

1a. Brass pipe - Brass pipe shall conform to ASTM B-43 standards. A listing of approved pipe include: Hallstead ¾ "through 2" Red Brass, Cambridge-Lee, Federal WW—351, Wolverine, or approved equal.

1b. Brass fittings - Brass fittings shall conform to ANSI Standard B16.15, B16.24, B2.1, T-94-1 and be a minimum of Class 125. A listing of approved manufacturers include: Lee Brass, Merritt Brass, New England Union Co., or approved equal.

- 1c.** Brass fittings for Copper Tubing - An approved listing for brass fittings for copper tube includes: Jones, Mueller, Ford or approved equal. Parts reference numbers are shown below:

- i.** Jones (3/4" through 2")
Jones Super Grip CTS x CTS E-2609SG
Jones Super Grip CTS x MIP E-2605SG
Jones Super Grip CTS x GIP E-2607SG
(2"- Compression x Compression)
- ii.** Mueller (3/4" through 2"):
Mueller-110-CTS H-15403N
Mueller-110-CTS H-15428N
Mueller-110-CTS H-15451N
- iii.** Ford (3/4" through 2"):
¾" - Ford Quick Joint CTS x CTS C44-33-Q-NL
1" - Ford Quick Joint CTS x MIP C84-44-Q-NL
2" - Ford Quick Joint CTS x FIP C14-77-Q-NL
(2"- Compression x Compression)

- 2.** Copper Tubing - Copper tubing shall be seamless, annealed copper tube and shall conform to ASTM B88 "Standard Specification for Seamless Copper Water Tube" and shall be Type K. Copper shall be grade UNS-C12200. For diameters ranging from ¾" to 1", use Type K Roll Soft Copper. For diameters ranging from 1.25" to 2", use Type K Soft 20' Sticks. Approved tubing includes: Cambridge Lee, Mueller Streamline, Aqua Shield or approved equal.

3. Corporation Stops

- 3a.** Corporation Stops shall be male, iron pipe thread by compression and full throat ball valve design. A corporation stop shall be installed at the water main for all service laterals 2 inches and smaller. Approved manufacturers of corporation stops include: Jones, Mueller, Ford, or approved equal. Part reference numbers are as shown below:

- i.** Jones: Part #E-1935SG (3/4-inch to 2 inches)
- ii.** Mueller:
Part #B-25028-MIPTXCTS-110N (Compression ¾ -inch to 2 inches)
Part #N-35028-MIPTXCTS-110N (Compression ¾ -inch to 1 inch)

- iii.** Ford: Part # FB1100-x-Q-NL (3/4-inch to 2 inches)
- iv.** AY McDonalds Mfg. Co. Brass 74704BQ 1" corp stop

4. Curb Stops

- 4a.** Approved curb stop manufacturers include: Jones Mueller, Ford, or approved equal. Part reference numbers are shown below:

- i.** Jones: Part #E1921WSG (3/4-inch to 2 inches)
- ii.** Mueller:
Part #B-25172-FIPTXCTS-110N (Compression ¾-inch to 2 inches)
- ii.** Ford: Part # B41-xxx-Q-NL (3/4-inch to 2 inches)
- iii.** AY McDonalds Mfg. Co. Brass 76102Q 1" curb stop

- 5.** Dielectric Tape- Approved manufacturers for dielectric tape include Polyken #932 Hi-Tack joint wrap tape or approved equivalent flexible dielectric tape.

6. Service Saddles

- 6a.** PVC Pressure Pipe Service Saddles manufacturers include: Jones, Mueller, Ford, or approved equal. Part reference numbers are as indicated below:

- i.** Jones: 4-inch through 12-inch saddles with ¾-inch through 2-inch tap, Part #J-996

- ii.** Mueller:

	Saddle Size	Part#
iiia.	4-inch	H-13490
iiib.	6-inch	H-13491
iiic.	8-inch	H-13492
iiid.	10-inch	H-13493
iiie.	12-inch	H-13494

- ii.** Ford:

	Saddle Size	Part#
ia.	1-inch	S912

6b. DIP Service Saddles manufacturers include: Jones, Mueller, or approved equal. Part reference numbers are as indicated below:

i. Jones: 4-inch through 12-inch saddles with ¾-inch through 2-inch taps: Part # J-979

ii. Mueller: ¾-inch through 2-inch taps:

	Saddle Size	Part#
iiia.	4-inch	BR2B0474Ip*
iiib.	6-inch	BR2B0684IP*
iiic.	8-inch	BR2B0899Ip*
iiid.	10-inch	BR2B1104IP*
iiie.	12-inch	BR2B1314IP*
iiif.	16-inch	BR2B1732IP*

*the last three numbers denote tap sizes
 (0.75"=075, 1"=100, 1.50"=150, 2"=200)

G. Appurtenances -In compliance with California State Assembly Bill 1953 and any amendments thereto, all brass components and pipe in contact with potable water intended to convey or dispense water for human consumption through drinking or cooking shall contain a maximum of 0.25% lead by weight. Compliant brass product shall be marked indicating the product is manufactured from a low-lead alloy. Non-compliant product shall be immediately removed from the construction site.

1. Air Release Valves – Air release valves shall be epoxy coated vacuum break type. A listing of approved manufacturers includes: Crispin, Valvematic, or approved equal. Part reference numbers are as shown below:

Crispin	Part#	Valvematic	Part #
1a. 1"	UL10	1"	201C
1b. 2"	UL20	2"	202C
1c. 3"	UL31	3"	203C
1d. 4"	UL41	4"	204C
1e. 6"	UL61	6"	206C
1f. 8"	UL81	8"	208C

2. Backflow Assembly – A listing of approved manufacturers and products include:

2a. Watts:

i. 009 and 909 Series, ¾" to 3"

- ii.** 909 Series, 4" to 10" (OS&Y or NRS)
- iii.** 709 DCDA Series, 3" to 10" (OS&Y)
- iv.** 909 RPDA Series, 3" to 10" (OS&Y)

2b. Wilkins:

- i.** 975 Series, ¾" to 2"
- ii.** 375AST (3", 4", 6", 8" & 10")
- iii.** 375ASTR (3", 4", 6", 8" & 10")
- iv.** 350ASTDA (3", 4", 6", 8" & 10")
- v.** 350ASTDA (3", 4", 6", 8" & 10")

2c. Ames:

- i.** 3000 DCDA Stainless Steel Series, (OS&Y), 3" to 10"
- ii.** 4000 RP Stainless Steel Series, (OS&Y or NRS), 3" to 6"
- iii.** 4000 RP Epoxy Series, (OS&Y or NRS), 8" and 10"
- iv.** 4000 B Series ¾" to 2"
- v.** 5000 RPDA Epoxy Series, (OS&Y), 4" to 10"

2d. Conbraco/Appollo:

- i.** 40-200 Series, ¾" to 2"

- 3.** Backflow Assembly Support Stands – Placer Waterworks series PW/PS or approved equal.
- 4.** Backflow Assembly Support Stand Saddles – Placer Waterworks series PW/SDL or approved equal.
- 5.** Backflow Assembly Color: All Backflow Preventer Assemblies shall be painted a "Forest Green" color to provide a deterrent to theft with the proper outreach to recyclers. The paint color code shall be RAL6004.
- 6.** Blocking for Boxes – A listing of approved materials includes: Slump Block- 4"x4"x15-1/2", or approved equal.
- 7.** Blow-Off – Approved manufacturers and products include: Kupferle, Mainguard #78 (2-inch) or approved equal.
- 8.** Cadwelds – A listing of approved materials includes:
 - 8a.** #4 jumper cable, CP cable, 18" long with 1" bare end
 - 8b.** #4 cadweld copper sleeve
 - 8c.** #4 cadweld shot with thermite mastic weld cap-t-cap
- 9.** Fittings

- 9a.** PVC- Unless otherwise specified or shown on the approved plans, all fittings to be used with PVC Pressure Pipe shall conform to the standard for “Ductile Iron Compact Fittings for Water and Other Liquids” (ANSI/AWWA C-153/A21.53 for MJ compact fittings; C110 for flange fittings). Approved fitting manufacturers include Sigma, Star, Tyler, Union and US Pipe.
 - i.** All ductile iron fittings shall be mortar lined in accordance with the standard for “Cement Mortar Lining for Ductile Iron Pipe and Fittings for Water” (ANSI/AWWA C-104/A21.4).
 - ii** All fittings shall be wrapped and sealed in accordance with these Construction Standards.
 - iii.** The Contractor may use a ductile iron mechanical joint flange adapter designed for AWWA C-900 pipe with connecting PVC Pressure Pipe to flanged fittings or flanged valves. Pipe ends must be cut smooth and square with no bevel. The joint shall be restrained to the PVC pipe using an approved restraint method.
- 9b.** Ductile Iron Pipe- Unless otherwise specified or shown on the approved plans, all fittings to be used with DIP shall employ either mechanical joints or restrained joints conforming to the standard for “Ductile Iron Compact Fittings for Water and Other Liquids” (ANSI/AWWA C-153/A21.53). Approved fitting manufacturers include Tyler, Union, and US Pipe.
 - i.** All ductile iron fittings shall be mortar lined in accordance with the standard for “Cement Mortar Lining for Ductile Iron Pipe and Fittings for Water” (ANSI/AWWA C-104/A21.4 – Double thickness mortar).
 - ii.** All fittings shall be wrapped and sealed in clear polyethylene encasement in accordance with these Construction Standards.
- 10.** Freeze Protection for Backflow Assemblies – The backflow assembly freeze protection materials shall be comprised of the following:
 - 10a.** Laminated fabric conforming to Herculite #10 by Herculite Products (fabric shall be a minimum of 10.6 oz/sq. yd.), or approved equal.

- 10b.** Brass Rolled Rim Grommet and spur washer by Astrup, or approved equal.
- 10c.** Polyester thread with a minimum strength of 14.2 pounds, Coats American's Star Ultra product line, or approved equal.
- 10d.** Fiberglass insulation R-19 rated, 6-inch minimum thickness.
- 10e.** Two-inch minimum width Velcro, or approved equal.
- 10f.** Nylon zip ties.
- 11.** Gaskets-Gaskets shall conform to the following specifications:
 - 11a.** Flange Gaskets – Flange gaskets shall be neoprene rubber, red rubber, US Pipe, Flange Tite, or approved equal.
 - 11b.** Push On Gaskets - Manufacturers recommendations.
 - 11c.** MJ Gaskets - Manufacturers recommendation.
 - 11d.** Insulating Flange Gaskets-Insulating flange gaskets shall be USSO Standard B.16.21 insulation flange kits, Type E Full Face Gasket with two-side insulation as manufactured by Calpico, or approved equal.
- 12.** Hydrants – Hydrants shall be wet barrel type bronze – lead free. Exterior shall be painted with one coat primer any two coats “safety yellow” enamel paint. Caps shall be cast iron. Approved hydrants include: James Jones (Bronze) Part # J3762-Z13, Clow (Bronze) 2060, or approved equal. The Part Number shall contain the letter “NL” to indicate the hydrant is lead free. Example: Part # Jxxx-ZxxNL.
- 13.** Hydrant Bury- Hydrant buries shall be ductile iron mechanical jointed cross flange, cement-mortar lined per AWWA C104. A list of approved hydrant buries include: South Bay Foundry MJ x Size, Clow MJ x Size or approved equal.
- 14.** Hydrant Bury Extensions- Hydrant bury extensions shall be grooved and cement-mortar lined per AWWA C104. A list of approved hydrant bury extensions include: South Bay Foundry, Clow Part # CW-EXT-BO (6” x 6” through 6” x 36”), Tyler (6” x 6”through 6” x 32”), or approved equal.

- 15.** Location Stakes – A list of approved off-sit location stakes include: Carsonite-# CUM375, 4" x 5" with anchor barb kit, Caution stickers attached-# CW-112 and organization decal # P101, City of Roseville- Call Before Digging-(916) 774-5750, or approved equal.
- 16.** Main Line Valve Lock-Out- A list of approved manufacturers and part reference numbers include: SW Services PC800, DC600, or approved equal.
- 17.** Manhole Frame and Cover- A listing of approved manufacturer and part reference number includes: South Bay Foundry (SBF1957-W), GMI Composite Frame and Cover 2600 and 3800 series, or approved equal. Manholes constructed outside of paved area shall use a GMI composite lid and frame.
- 18.** Meters- All meters shall be purchased through the Environmental Utilities Department, Water Division. Call (916) 774-5750 for information.
- 19.** Meter Idlers- A listing of approved meter idler manufacturers include: Ford, Jones, Spears, or approved equal. Part reference numbers are shown below:

19a.	Ford	Part #
i.	¾"	IDLER #3-NL
ii.	1"	IDLER #4-NL
iii.	¾" x 9"	884-090-NL
iv.	1.5"	IDLER #6-NL

19b.	Jones	Part #
i.	5/8" x 3/4"	E-2208
ii.	1" to 2"	E-2208

19c.	Spears (no lead/low lead)	Part #
i.	¾" x 7.5"	884-075
ii.	1" x 10.75"	885-107

- 20.** Meter Setters – A listing of approved meter setter manufacturers include: Ford, Jones, Mueller, or approved equal. Part reference numbers are shown below:

20a.	Ford 40 Series	Part #
i.	¾"	VBHH43-12WH-NL-FP
ii.	1"	VBHC44-15W-NL-FP
iii.	1.5"	VBB76-18HB-11-66-NL-FP
iv.	2"	VBB77-18HB-11-77-NL-FP

20b.	Jones	Part #
i.	¾" to 1"	E03-B-(C)-MT X MT-BV-SC-12
ii.	1.5"	Eo2E-FIP-FIP-BV-SC-12AS
iii.	2"	Eo2F-FIP-FIP-BV-SC-12AS
20c.	AY McDonald	Part #
i.	1"	718 412JC
20d.	Mueller	Part #
i.	¾" to 1"	B-24118-2N
ii.	1.5" to 2"	B-2423-99000N

- 21.** Meter Spud Couplers – A listing of approved meter spud couplers manufacturers include: Ford, Jones, Mueller, or approved equal. Part reference numbers are shown below:

21a.	Ford	Part #
i.	3/4"	C38-33-NL (4" and 8-1/2" Spud)
ii.	1.5"	CF31-66-NL
iii.	2"	CF31-77-NL
21b.	Jones	Part #
i.	1.5" to 2"	E-129
ii.	¾" to 12"	E-130 (3/4" or 1" use 4" and 8-1/2" Spud)
21c.	AY McDonalds	Part #
i.	1"	718412JC
21d.	Mueller	Part #
i.	1"	H-10890N
ii.	Size	10-H90-99029N(4" and 8-1/2" Spud)

22. Nuts and Bolts

- 22a.** Flange Bolts and Nuts-Flange bolts and nuts shall conform to a minimum ASTM #A307. Bolts less than ¾ inches in diameter shall be a minimum Grade B (heavy hex). Bolts ¾ inches and larger in diameter shall be a minimum Grade A (standard hex).
- 22b.** Hydrant Bolts-Hydrant bolts to be Hollow Break Away, 5/8" x 3", conforming to ASTM-A307 Grade A & B Low Carbon Steel. Insulating flange bolts, nuts, and washers shall be stainless steel Grade 316.

- 22c.** Meter Bolts-are to be stainless steel, Grade 316 with brass nuts
- 22d.** Tee Bolt-Steel bolts are to be $\frac{3}{4}$ " high strength, low alloy steel with a heavy nut, conforming to AWWA Standard C-111-90
- 23.** Nylon Bushings – Nylon bushings shall be 76-76R, 2 $\frac{1}{2}$ " MIPT x 2" FIPT.
- 24.** Patching Material – A listing of approved manufacturers and part reference numbers for patching of Dip include: Cop-Coat Carboline Company (Bitumastic No. 50, Coal Tar), Coppers Coat 50, or approved equal.
- 25.** Pipe Wrap Tape – 10-mil vinyl tape manufactured by Calpico Inc. (Calpico VI-10) or approved equal.
- 26.** Polyethylene Encasement- "Clear" non-colored polyethylene film shall be used. The polyethylene film shall have a minimum thickness of 8 mils. The thickness shall not be less than 10 percent of the nominal thickness. The polyethylene shall be in either tubular or in sheet form. Polyethylene film shall be manufactured from a Type 1, Class A raw polyethylene material conforming to "Polyethylene Encasement for Ductile-Iron Piping for Water and Other Liquids" (ANSI/AWWA C-105/A21.5). Approved manufacturers include: Fee Spec's-LP378D Northtown, Fulton Enterprise Inc., Global Polymer Tech, Unisource, or approved equal.
- 27.** Pressure Regulators- A listing of approved all brass pressure regulator systems include: Watts ($\frac{3}{4}$ " through 2", UB5-series), Wilkens ($\frac{3}{4}$ "through 2"-600 series, 2.5"through 3"-500YSBR), or approved equal.
- 28.** Restraints
- 28a.** PVC - Approved restraint systems for PVC Pressure Pipe include: Certain Teed Certa Lock (for straight runs only), Romac Grip Rings, EBAA Iron Series 2000 PV, Sigma One Lok Series "SLC", DR18 JM Eagle Loc, eagle lock , PVC Star Grip 4000 series or approved equal.
- 28b.** DIP - Approved restraint systems for DIP include: Field Lock Gaskets (3 inches through 12 inches diameter only), Mega Lug 1100 Series, TR Flex, sigma One Lok Series "SLD", Star Grip 3000 series, American Fastite Joint Assembly or approved equal.

- 29.** Riser Aligners - A listing of approved products include: Davis & Associated Riser Aligners (8"), or approved equal.
- 30.** Riser Stock For Curb Stops - Riser stock schedule 40 PVC. The riser shall be 4-inch diameter inside meter boxes, and 6-inch diameter for curb stop type valves in valve boxes.
- 31.** Riser Stock For Main Line Valves - Riser stock shall be 8-inch diameter PVC C-900 for all main line valves.
- 32.** Sampling Stations - Max Fusion or approved equal.
- 33.** Service Boxes and Lids - All box lids are to be permanently marked with the appropriate label (i.e., Water, ARV, Blow-Off, CPT, etc.). Lids shall have a 1-7/8" hole offset at upper 1/3 portion of lid measured along the long axis. In commercial project, meter lids shall be stenciled with the number address it serves. The numbers shall be painted using white enamel paint and 2-inch stenciling. A list of approved box manufacturers include: Christy, BES, Armorcast, CDR, Placer Water Works, or approved equal. Part reference numbers are shown below:

Christy	Part #
3/4" and 1" services	N-16 Box (10k load)
	N-30 box (10k load)
	B-16-61DP Cover (10k load)
	B-16CP Cover (10k load)
	FL16P001 (10k load)
	FL 30 cover (10k load)
	Placer Water Works PWW-F16 (20k load)
	(w/1-7/8" hole, off-set at upper 1/3 portion of lid, measured along the long axis)
	B-16-12 Box Extension
1.5" to 2" services	B-40 Box
	B-40-61D CoverB-40-61D Cover
	(w/1-7/8" hole, off-set at upper 1/3 portion of lid, measured along the long axis)
	B-40" x 10" Box Extension
3" meter box	B-40 Box

4" meter box	B-48 Box B-48-62DP P48-10 Extension
6" to 10" meter boxes	B-48 Box P48-10 Extension R-17P24 PIT R-17-52DP Lid R-17"x 24" Extension
6" to 8" compound meter Boxes	R37 Box and Extension R37-54H Lid
Armorcast ¾" to 1"	Part # A6000492 Box (20k load) P000492 Box (20k load) A6000489-T-H5 (20k load) A6000489-H5 (10k load) A-6000 489-TI Non Traffic Lid with 2" probe hole and metal detection device. Label "RSVL WATER"
1-1/2" to 2" services	A-6001 643-TI Non Traffic Lid with 2" probe hole and metal detection device. Label "RSVL WATER"
CDR ¾ "to 1" services	Part # WB03-1121-12 Box WC00-1121-02RR Lid (10k load)
Placer Waterworks All sizes	Part # All standard lids listed above (10k and 20k load)
Hubble Meter Box 1" meters	Part # CDR 15" X 27" straight wall style (stackable assembly) CDR 17" X 30" straight wall style (stackable assembly)

- 34.** Silicone – Silicone shall be clear, 100% silicone with a 25-year life, or approved equal.

- 35.** Traffic Boxes – A list of approved traffic box manufacturers include: Bes, Christy, or approved equal. Parts reference numbers are shown below:

35a.BES

- i.** C-17" x 30" Box-Full Traffic Concrete
- ii.** G-5 Box

35b.Christy

- i.** V-64 Box
- ii.** V-64 Box x 6" Extension
- iii.** V-64 Cover Traffic Load
- iv.** G-5 Box with D & L Lid # K6004
- v.** G-5C Lid

35c. Placer Water Works

- i.** PW/G5 Lid

- 36.** Tracing Wire-Tracing wire shall be minimum 12-gauge solid copper with UF rated plastic insulation.

- 37.** Tracing Wire Connectors-Tracing wire connectors shall be copper split-bolt type connectors. A listing of approved products include: Perminate Seal-Wire Connectors-Part #97811, Christy's (S-X), or approved equal.

- 38.** Tracing Wire Mastic Tape Seal- Tracing wire mastic tape shall be 3M Mastic Tape #2229 or approved equal.

- 39.** Valves

39a. Butterfly Valves- Butterfly valves to be used on pipe diameters ranging from 16" to 72". A list of approved valves include: Standard Pratt Ground Hog (Holiday free epoxy, interior lining and standard black asphalt varnish exterior) with MDT Traveling Nut Actuator, Mueller Linesal III (Holiday free epoxy, interior lining and standard black asphalt varnish exterior), or approved equal. Certification shall be provided by the valve manufacturer stating the epoxy lining is holiday free. The epoxy coating shall be spark tested and approved for installation by the Environmental Utilities Department inspector.

39b. Gate Valves- Gate valves for 2"-21/2" services shall be N1BCOT-113 Bronze, or approved equal. Gate valves to be used on

diameters ranging from 3" to 12" shall be grey cast iron or approved equal. A list of approved valves includes: M & H 4067 RW Gate Valve, Mueller-A-2360 RS Gate Valve, Clow, AFC or approved equal.

39c. Two part epoxy repair kit shall be provided by valve manufacturer.

40. Valve Boxes- All valve boxes in street and other traffic areas shall be designed to H-20 loading conditions. A list of approved manufacturers and part reference numbers include: Christy (Type G5, Type B 17 by 30 H-20), BES, D&L (#K-6004), or approved equal.

41. Valve Extensions-Placer Waterworks extensions model PW/VE or approved equal.

42. Water Pipe Marking Tape-Approved manufacturers and materials include: Cal Pico Inc. (Tracer Tape-non-Detectable 12" width), Reef Industries Inc., Terra Tape Extra Stretch 450 Material, or approved equal.

43. Zinc Caps-A listing of approved manufacturers include: Mars, or approved equal. Part reference numbers are shown below:

43a. Mars:

- i.** 7/16" to 1/2"—2.5 ounce weight
- ii.** 5/8" to 1"—6.0 ounce weight

H. CONDITIONALLY APPROVED

The following products are conditionally approved in the City for a period of 2 years conditional acceptance period, the product may be granted approved equal status and be added to the list of approved products in the City of Roseville Standards.

1. 1" Water Service

- a. FlowGuard Bendable PVC Pipes

2. Electrosteel USA DIP mortar lined and with Primer Shield 431.

3. Old Castle Precast (Formerly U.S. Concrete Precast)

- a. Sewer Manholes and Appurtenances
- b. Grease Interceptors

4. Traffic Boxes and Lids

- a. CDR 1" services Part# (For Tiers 15 & 22)*

*Tiers 15 22: Driveways , parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic.

METER APPLICATION TABLE 1

Size	Classification	Meter Type ^{3,4}	Mtr Length	Meter Box ²	Top of pipe to finish grade	- residential - commercial - commercial			Meter lid ¹	
						Dom.	Dom.	Irrig.		
3/4"	PD	SR II TR/PL	9"	N-16	8"-10"		x	x	CI incert / Checker plate	
3/4"	PD	SR II TRC	7 1/2"	N/A	Fire bypass				Fire backflow bypass	
1"	PD	SR II TR/PL	11"	N-16	8"-10"	x	x	x	CI incert / Checker plate	
1 1/2"	PD	SR TR/PL	13"	B-40 w/ext	10"-14"		x		Checker plate	
1 1/2"	TURBO	W-120 w/strainer	13"	B-40	8"-10"			x	Checker plate	
2"	PD	SR TR/PL	17"	B-40 w/ext	10"-14"		x		Checker plate	
2"	TURBO ³	W-160 w/strainer	17"	B-40	8"-10"			x	Checker plate	
3"	TURBO ³	W-350 w/strainer	19"	B-40 ⁵	8"-10"		x	x	Checker plate	
4"	TURBO ³	W-1000 w/strainer	23"	B-40 ⁵	8"-10"		x	x	Checker plate	
4"	COMPOUND ⁴	SRH Compound w/strainer	29 1/8"	B-48 w/ext	14"-16"		x		Kristy split-lid	
6"	TURBO ³	W-2000 w/strainer	27 1/8"	B-48	8"-10"		x	x	Checker plate/Split-lid	
6"	COMPOUND ⁴	SRH Compound w/strainer	33 1/8"	B-48 w/ext	18"-20"		x		Checker plate/Split-lid	
8"	TURBO ³	W-3500 w/strainer	30 1/8"	B-48	8"-10"		x	x	Checker plate/Split-lid	
8"	COMPOUND ⁴	SRH pre-fab pac	76 3/4"	10'x5' vault	18"-20"		x		H-20 2door spring load lid	
10"	TURBO ³	W-5500 w/stainer	41 1/8"	B-48	8"-10"		x	x	Checker plate/Split-lid	
10"	COMPOUND ⁴	FIRELINE-COMPACT	68"	9'x7' vault	30"-32"		x		H-20 2door spring load lid	
Notes:	¹ Lid shall have probe hole for TR sensor									
	² Standard meter box for City of Roseville									
	³ Turbo meters require internal strainers sizes 1 1/2"- 4"									
	⁴ All compound meters require bronze bolt-up strainers									
	⁵ Recycled water meters 3" and larger use B-48									
									by Mitch Prather	

SECTION 82

MARKERS AND DELINEATORS

82-1.01 DESCRIPTION - Markers and delineators shall be installed in accordance with the approved improvement plans and specifications, these Construction Standards, the City Design Standards, The California Manual on Uniform Traffic Control Devices (CMUTCD), the State of California Department of Transportation Standard Plans, and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the CalTrans Standard Specs.

82-1.02F REFLECTORS - Type K-4 (Type Q in the CalTrans Standard Plans) markers (aka: Superducks) shall be 36 inches tall and have 3 bands of reflective sheeting per Section A73A of the CalTrans Standard Plans.

Type K-4 markers mounted between two lanes of opposing traffic shall be yellow with yellow reflectorized sheeting. Type K-4 markers mounted between two lanes of traffic traveling in the same direction shall be white with white reflectorized sheeting.

At median curb noses, a yellow Type K-4 marker shall be mounted on top of the curb. A white Type K-4 marker shall be mounted at the nose for a Right turn “pork chop” island.

Medians within and at the entrances to subdivisions shall have three yellow reflective markers installed on top of the median curb with one at the beginning, center, and end of the median nose radius. The markers should be placed so that they face approaching traffic parallel to the centerline of the median. K-4 markers should not be used unless required by the Engineer.

SECTION 84

TRAFFIC STRIPES & PAVEMENT MARKINGS

84-1.01 DESCRIPTION - Traffic stripes and pavement markings shall be installed in accordance with the approved improvement plans and specifications, these Construction Standards, the City Design Standards, The California Manual on Uniform Traffic Control Devices (CMUTCD), The State of California Standard Plans, and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the CalTrans Standard Specs.

Sandblasting of traffic stripes shall not be permitted. Removal of traffic stripes shall be by grinding, or by other methods approved in writing by the Engineer. Drain inlets adjacent to areas to be ground shall be protected from grindings entering the storm drain system. For removal of pavement markings, a rectangular area shall be ground to prevent ghosting of the original marking and be covered with rectangular area of Type II slurry. Conflicting striping shall be removed completely. Type II slurry of conflicting striping is required when it crosses the new traveled lane. When this occurs, the entire lane shall be slurried from lane line to lane line over the entire length of the conflicting striping. This requirement will not apply to ceramic markers unless specified on the plans.

All striping or pavement markings damaged during construction shall be repaired at the contractor's expense. Repairs shall consist of complete replacement of markings or legends, replacement of sections of thermoplastic striping, and replacement of damaged or missing markers as directed by the Engineer.

All pavement markings on concrete surfaces (unless otherwise noted) shall be 3M tape or equivalent in place of thermoplastic material.

84-1.03 TOLERANCES & APPEARANCES - The following clarifications or modifications shall be applied when installing traffic stripes and pavement markings:

1. In addition to locations as shown on the plans, bike lane signs and pavement markings shall be installed at no more than one half-mile intervals and following every break in the bike lane striping. The BIKE LANE legend shall be centered in the lane to ensure the legend does not run into the lane striping.
2. A bicycle detector pavement marking shall be installed in conjunction with each bicycle detector loop at signalized intersections per

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CMUTCD Figure 9C-7 and shall be placed starting 6 inches back of the crosswalk/stop bar.

3. Unless otherwise specified on the plans, crosswalks shall be eleven (11) feet wide, measured from the centerline of the stripe.
4. Traffic stripes and pavement markings shall not be placed over utility covers including, but not limited to, manhole covers, utility boxes, hand holes, or water valve covers.
5. STOP legend pavement markings and limit lines are required with stop signs. YIELD legend pavement markings are not required with yield signs. The yield limit line shall be per the CMUTCD with CS (24" by 26" triangles).
6. Pavement arrows shall be one of the following types unless otherwise directed by the Engineer: Type II (L, R or B), Type III (L, R, or B), Type VI or Bike Lane Arrow.
7. At signalized intersections with left turn lanes longer than 150 feet, an additional Type II, or Type III arrow shall be placed 20 feet behind the limit line. Where there are dual left turn lanes with staggered limit lines, the arrows in the number 1 left turn lane (closest to the median) shall be placed 15 feet behind the limit line, and the arrow in the number 2 left turn lane shall be placed 20 feet behind the limit line. The intent is to have the two arrows line up side by side, even though the limit lines are staggered.
8. All turn lanes shall have a Type II or Type III arrow at the beginning of the turn lane such that the tail of the arrow lines up with the beginning of the Detail 38 striping. All turn lanes 150 feet or longer shall have a minimum of two Type II or Type III arrows (one arrow for every 150 feet of turn lane).
9. All traffic lane striping shall be discontinued through any four way public intersection from crosswalk to crosswalk, marked or unmarked. Striping shall be continuous through private intersections unless there is a striped left turn lane and/or traffic signal. For public "T" intersections, the through and bike lane striping shall be continuous for the non-intersection direction, i.e. "across the top of the T". However, there shall be no striping within the limits of the crosswalk.
10. At locations where bike lane striping is used to channelize traffic, right turn acceleration/deceleration lanes and bus turnouts, both strips shall be detail 38. Reflective pavement markers shall be placed to the vehicle travel lane side of both stripes.

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11. Bike lane striping shall be continuous except at right turn bay tapers, intersections with City streets, and driveways where the centerline/median is broken. See TS-18 for examples.
12. Lanes designated by the Engineer as auxiliary shall be striped as directed by the Engineer. Examples of typical auxiliary lane striping can be seen on TS-19. Bike lane striping along auxiliary lanes shall be a modified Detail 38 with 4 foot stripes at 10 feet on center.
13. Left turn arrows shall not be placed in Two Way Left Turn Lanes unless otherwise directed by the Engineer.
14. Stop and yield bars shall be 7 feet back from the center of the pedestrian access ramp unless directed otherwise by the Engineer. Where the stop sign is installed with a yellow school crosswalk, a supplemental white stop bar shall be installed 4 feet back from the crosswalk line.
15. Lane line extensions for dual turning lanes shall be placed on a continuous arc as appropriate for a turning 40 foot bus. Triple turning lanes shall be placed to accommodate the turning of a 65 foot total length (California legal) tractor truck-semitrailer (-TS-20).

THERMOPLASTIC TRAFFIC STRIPES & PAVEMENT MARKINGS

84-2.02 MATERIAL - The thermoplastic material shall conform to State Specification 8010-19A, Thermoplastic Traffic Striping Material, Alkyd Binder, White and Yellow.

84-2.04 APPLICATION

The Contractor shall apply an adhesive primer base coat prior to the application of any thermoplastic material on treated pavement, stamped pavement, colored pavement, concrete surfaces, or pavement older than 30 days.

As shown on the plans, the following permanent traffic lane striping shall be thermoplastic, and placed as one of the following types: Detail 25, 27B, 38, 39, 39A and Detail 40. Pavement Markers are also required for placement of Detail 25 and 38.

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SECTION 85

PAVEMENT MARKERS

85-1.01 DESCRIPTION - Pavement markers shall be installed in accordance with the approved improvement plans and specifications, these Construction Standards, the City Design Standards, The California Manual on Uniform Traffic Control Devices (CMUTCD), The State of California Standard Plans, and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the Cal Trans Standard Specs.

85-1.04 NON-REFLECTIVE PAVEMENT MARKERS - All non-reflective pavement markers shall be ceramic.

85-1.05 RETROREFLECTIVE PAVEMENT MARKERS - All lane line pavement markers of two and three lane arterials shall be type C Red-Clear retroreflective markers.

85-1.06 PLACEMENT - As shown on the plans, the following permanent traffic lane striping shall be raised pavement markings, and placed as one of the following types: Detail 4, 7, 10, 13, 17, 20, 23, 25, 26, 30, 33, 37C, or Detail 38. Thermoplastic striping is also required for placement of Detail 25 and 38.

Detail 26 markers shall be placed 2 inches from the face of the median curb.

At all fire hydrant locations, a blue reflective pavement marker shall be installed one foot off paved centerline or median on the hydrant side of the roadway.

All traffic lane striping shall be discontinued through any four way public intersection from crosswalk to crosswalk, marked or unmarked. Striping shall be continuous through private intersections unless there is a striped left turn lane and/or traffic signal. For public "T" intersections, the through and bike lane striping shall be continuous for the non-intersection direction, i.e. "across the top of the T". However, there shall be no striping within the limits of the crosswalk.

At locations where bike lane striping is used to channelize traffic, right turn acceleration/deceleration lanes and bus turnouts, both strips shall be detail 38. Reflective pavement markers shall be placed to the outside of the bike lane along both stripes

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See Section 84 of these Construction Standards for additional striping requirements.

SECTION 86

SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS

86-1.01 GENERAL - Signals, lighting, electrical systems shall be constructed/installed in accordance with the following standards listed in priority - the approved improvement plans and specifications, these Construction Standards and the City Design Standards, The California Manual on Uniform Traffic Control Devices (CMUTCD), The State of California Standard Plans, and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the CalTrans Standard Specs. Note that the more recent of either the City of Roseville Construction or Design Standards shall govern the older of the two.

Signal phasing shall start with phase 2 northbound and proceed in a clockwise direction unless directed otherwise due to coordinated corridor restrictions.

A copy of the Traffic Signal Inspection Check List is included on TS-22 as a reference of required inspections during construction.

86-1.04.1 EQUIPMENT LIST AND DRAWINGS - The City shall provide as discussed in these Standards, the following traffic signal equipment and materials listed below unless otherwise specified in the plans. (For signals being installed as a developer obligation, the City shall supply equipment as outlined in the City Standards at the developer's cost. Full payment is required prior to the release of the equipment. The Contractor shall identify the cost of the City furnished equipment as a bid item):

Upon ten calendar day notice to the City's Construction Inspector, the equipment and materials to be provided by the City will be available for pick-up by the Contractor at the City's Corporation Yard located at 2005 Hilltop Circle, Roseville. The Contractor shall provide all labor and equipment necessary to load, transport, and install the City-provided equipment and materials.

Traffic signal standards, posts, and mast arms shall be of the types listed below:

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STANDARD/POST	MAST ARM	LUMINAIRE ARM
Ped. Push Button	none	none
7 to 15 foot 1-B	none	none
Type 15	none	6-15 foot
Type 15TS (7.2' foundation)	none	6-15 foot
16-3-100	15-20 foot	none
17-3-100	15-20 foot	6-15 foot
18-4-100	25-30 foot	none
19-4-100	25-30 foot	6-15 foot
23-4-100	35 foot	none
24-4-100	35 foot	6-15 foot
26-4-100	40-45 foot	6-15 foot
27-4-100	40-45 foot	none
28-5-100	50-55 foot	none
29-5-100	50-55 foot	6-15 foot
60-5-100	60-65 foot	none
61-5-100	60-65 foot	6-15 foot

TABLE 6-1

The typical luminaire arm length used is 15 feet. Signal mast arms and luminaire mast arms shall be within 2 degrees of perpendicular to the centerline of the roadway. The Type 15TS pole above shall be used in conjunction with IISNS installations.

1B poles for four section and five section heads shall be 13 feet and 14 feet tall respectively.

Poles (except 1-B's) shall be permanently labeled with the pole size, manufacturer, and serial number below or above the hand hole.

Signal pole and arm welding shall be performed by individuals certified by the pole manufacturer and shall not limit the original manufacturer warranty.

86-1.06 MAINTAINING EXISTING & TEMPORARY ELECTRICAL SYSTEMS - Roadway closures requiring restrictions of turning movements and/or signal red flash operations shall be in accordance with Section 12 of these Construction Standards.

86-2.03 FOUNDATIONS - Placement (location) of all foundations shall be verified by the Engineer prior to installation.

There shall be a minimum 6-inch high curb around the signal controller/service pad, excluding the sidewalk/roadway side of the pad. The minimum curb height shall increase as necessary to ensure no

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steeper than a 2:1 slope of the native material around the pad. Masonry blocks (not gravity type blocks) may be utilized to achieve the required 2:1 slope. The Contractor shall be responsible for acquiring engineering for retaining walls if the wall is greater than four feet from base of footing to top of wall. Refer to TS-4 through TS-8 for further details.

Signal pole anchor bolts shall be aligned to ensure a maximum mast arm offset of two (2) degrees from perpendicular to the roadway.

Unless otherwise directed by the Inspector or Engineer, the Contractor is not required to place Inspection tubes in the foundations per Caltrans Standard Plan ES-7N.

86-2.04 STANDARD, STEEL PEDESTAL AND POST - Any 1B standard having a signal head display, 4 sections or larger, shall be installed under the following criteria:

1. Four (4) section displays will be side (SV-1-T or SV-2-T) mounted. The 1B standard shall be 13 feet in height. A PVC cap shall be provided as a pole cap. Special mounting instructions as described in these Standards shall apply. (See Section 86-4.06).
2. Five (5) section display shall be side (SV-1-T or SV-2-T) mounted. The 1B standard shall be 14 feet in height. A PVC cap shall be provided as a pole cap. Special mounting instructions as described in these Standards shall apply. (See Section 86-4.06).
3. Individuals certified by the pole manufacturer shall perform signal standard welding. The contractor shall give seven (7) days advance notification prior to any welding on existing poles installed in the public right- of-way. The contractor shall certify that any welding of signal standards will not degrade the integrity of the standards. Upon completion of welding on a signal mast arm, the contractor shall replace any existing electrical wires in the arm.
4. All future tenons shall be covered with a plastic cap and a pull wire shall be installed from the tenon to the side vehicle termination.

Internally Illuminated Street Name Sign (IISNS) Mast Arms shall be per TS-11 and TS-12. The loading of the mast arms and the signal pole to which the sign mast arm is attached shall be approved in writing by the manufacturer or a licensed Structural Engineer.

86-2.05A CONDUIT MATERIAL - All conduits shall be gray PVC, minimum Schedule 40.

86-2.05B CONDUIT USE - All conduits shall be two (2) to three (3) inch in

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diameter except the run to the pedestrian push button posts shall be one (1) inch.

86-2.05C CONDUIT INSTALLATION - All trenches in existing streets shall be constructed per Section 31-2 of these Standards and as required in this section. See TS-13 for trench details.

All new conduit placed in existing roadways shall be buried at a minimum depth of 18" below finished grade. All new conduit placed in new roadways shall be installed prior to any paving operations and be buried at a minimum of 18" below finished subgrade with the exception of conduit between detector handholds and the first pull box which shall be buried a minimum of 18" below finished grade. New conduit installed outside of the roadway and sidewalk shall be installed at a minimum depth of 36" below finished grade.

Unless otherwise specified, all signal interconnect (SIC) conduit shall be: 2-3 inch schedule 40 gray PVC conduit with 3 foot radius 90 degree sweeps into each number 6 pull box.

All traffic signal and SIC conduit shall have a Fiber-TEK part number WPTT1250 or approved equivalent pull tape installed along with the conductors/fibers. Approved pull tapes shall consist of a 22-AWG solid copper wire with HDPE Jacket.

End bells shall be installed on the pull box end of each 90-degree sweep conduit into all pull boxes prior to pulling the wire.

After conductors have been installed, the ends of conduits terminating in pull boxes and controller cabinets shall be sealed with a duct seal type of sealing compound.

If delay to motorists will not exceed 10 minutes, conduit may be installed as allowed by "Trenching In Pavement Method" as provided in Section 86-2.05C of the CalTrans Standard Specifications and these requirements:

1. The trench shall be maximum six inches wide and two inches wider than the outside diameter of the conduit to be installed. There shall be one inch minimum clearance between the conduit and the trench wall. The trench shall be crumbed clean prior to placement of conduit.
2. Aggregate material in concrete shall be pea gravel. Concrete shall be thoroughly consolidated around the conduit filling all voids.
3. Rock wheel trenching per detail TS-13 and conduit installation in new

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and existing roadways shall be located along the centerline of the bike lane stripe or stop bar/crosswalk striping whenever possible. The trench cut will be hidden by the stripe where applicable. Pre-existing improvements requiring deviation from the centerline of the stripe shall be accomplished within 20 feet from the beginning to the end of deviation. Deviations along bike lane lines shall be to the curb side of the stripe unless directed otherwise by the City. Deviations greater than 20 feet shall require asphalt concrete repair per Item 4 below.

4. Rock wheel trenching parallel to the roadway centerline across acceleration, deceleration, or bus turn out openings that cannot be completed per TS-13 upon the same day shall be filled with concrete to the top of the trench and the Contractor shall return to complete an 18-inch "T" grind and overlay per – Detail TB-3.
5. Saw cutting in the street other than rock wheel trenching will require pavement repair per TB-1 or TB-3 and/or grinding between lane lines per City Standards found elsewhere in this document.
6. Should the contractor fail to install the conduits in new roadways prior to the bottom lift of asphalt concrete, the City will require the installation of Tensar a Glas Grid 8502 or equivalent matt prior to the final lift of pavement.

The contractor is solely responsible to provide all labor and equipment necessary to locate existing underground facilities beyond the information provided by the U.S.A. markings including, but not limited to, metal detectors, wire locating equipment, and potholing.

86-2.06 PULL BOXES - Pull boxes shall not be placed within the area of an access ramp unless directed by the Engineer. Pull boxes should be installed a minimum offset of 1' from back of walk of walk when within the sidewalk, and from any score or expansion joint. The bottoms of pull boxes shall be bedded in 6 inches of clean crushed rock. Grout in the bottom of pull boxes is not required. The pull box rim and lid shall be flush with surrounding surface. In planter areas, the pull box rim and lid shall be 1 inch above the finish grade. Pull boxes located outside of the sidewalk or planter area behind a sidewalk shall be of the Caltrans traffic rated pull box design.

Conduit termination in the pull box shall be a minimum of 2" from the sides of the pull box, 2" above the crushed rock, and at least 8" below the bottom of the pull box cover. Conduits shall enter and exit pull box quadrants relative to the direction of the run.

All pull boxes and lids shall be precast reinforced concrete unless otherwise directed by the Engineer.

All pull boxes shall be No. 6 except as modified by the plans or the provisions below:

1. Advance loop pull boxes shall be No. 6 and shall have a minimum of 20 feet of detector lead-in cable (DLC) and 20 feet of extra loop cable spooled in the pull box.
2. The “Home Run” and “Communication Home Run” pull boxes (typically adjacent to the controller) shall be No. C48E boxes vaults with 12 inch extensions (double stack). Detector loop splicing is not allowed in the “Home Run” pull boxes.
3. Fiberlyte (FL36) + 24 inch extension vaults shall be installed at the fiber hub locations as designated by the City and at every fiber optic cable splice point. Vaults shall be installed within the controller pad whenever possible. Where a traffic rated box is required the C48 (Concrete) vault shall be used with a steel checker plate bolt down lid. See TS-14 for additional installation details.
4. An N48 Vault shall be installed near (as directed by the City) the controller cabinet for fiber.

All pull boxes to be abandoned shall have conductors removed from the pull boxes and conduits and the pull box shall be removed. The remaining hole shall be backfilled and compacted with similar material as the surrounding material. If within a sidewalk, the entire square of sidewalk shall be removed and replaced.

86-2.06B COVER MARKING - Strips shall be fastened with ¼ inch stainless steel rivets.

Pull box covers shall read “TRAFFIC SIGNAL”, except covers for pull boxes used solely for traffic signal interconnect. Should the signal interconnect pull box or vault contain any communication cable, the cover shall read “TRAFFIC SIGNAL FIBER OPTICS” instead.

86-2.08 CONDUCTORS - Conductor installation in new conduits shall be limited to 26 percent fill of the conduit maximum. Conductors installed in existing conduits shall be limited to 40 percent fill of the conduit maximum.

A Fiber-Tek part number WPT1250 or approved equivalent pull tape shall be installed in all conduits.

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Equipment grounding conductors shall be #6 stranded copper with insulation.

At new and remodeled traffic signals, a three inch, two cell "MAX CELL" or equivalent product shall be provided in all street crossing traffic signal conduits and from #1 Home run box to controller cabinet and must be installed using swivels

Three (3) category 5E cables (Mohawk Lan-Trak OSP, part number M58790), or City approved equivalent, and one (1) power cable (IMSA 14-3/20-1-STR 600V, Belden part number 601195) or City approved equivalent to top of designated pole with 10 feet of slack for each cable at the top of the pole.

In order to reduce strain on the Cat5 cabling, all cables shall be adequately supported by feeding them through a Kellems grip which is attached to and suspended from the pole cap. The hole drilled for the cabling shall be drilled on the back side of the pole three feet from the top in order to minimize the camera view obstructed by the cable and shall be threaded for a straight $\frac{3}{4}$ " strain relief cord connector. At least four feet of cable shall be pulled through and secured by the strain relief cord connector. The cables shall be looped together, adequately secured to the pole to prevent movement, and sealed on the ends to prevent moisture exposure.

The contractor shall install new wire and/or cable in conformance with guidelines below. It is assumed that all existing conductors and cables are undamaged unless inspected, documented, and reported to the inspector prior to the contractor starting that section of the work. Otherwise, any damage to City facilities shall be repaired by the contractor at the contractor's cost in conformance with City standards.

New traffic signal and SIC conductors shall be installed per the following guidelines:

- 1.** New wire may be pulled through existing conduits without removing conductors if based on common conditions:
 - a.** There are a maximum number of four, ninety degree by twenty-four inch radius bends in one conduit run between pull boxes or termination points, and
 - b.** Conductors, conduit, number of bends and length of the pull are within reasonable limits (under 175 feet for signal wiring and under 400 feet for signal interconnect wiring), and

- c. Ratio of the conduit (inside diameter) to the combined diameter of both the new and existing conductors or cables (outside diameter), otherwise known as conduit fill, does not exceed 40 percent.
2. All existing conductors shall be removed from conduits, the conduit proven, existing wires inspected, and the new wires added and re-pulled along with the wires previously removed if:
 - a. Items 1a and 1b above are met but the ratio of the conduit (inside diameter) to the combined diameter of both the new and existing conductors or cables (outside diameter), otherwise known as conduit fill, is greater than 40 percent but less than or equal to 60 percent, or
 - b. Items 1a through 1c above are met but jamming occurs.
3. New conduit shall be installed per City of Roseville Construction Standards if more than four ninety degree radii exist, the length of the pull exceeds Item #1b above, or the ratio of the conduit (inside diameter) to the combined diameter of both the new and existing conductors or cables (outside diameter), otherwise known as conduit fill, exceeds 60 percent.
4. The new wire shall be pulled as follows:
 - a. Conductors shall be pulled into conduits by hand or by approved mechanical pulling methods such as a pulley with adjustable clutch.
 - b. Only Polymer Based pulling compounds such as Aqua-Gel by Ideal or equivalent shall be used
 - c. Lubricants shall be forcefully injected into the conduit system
 - d. Only fiberglass fish tape or polyester measure tape may be used
 - e. All wiring shall be formed and bundled with tie-wraps and directed to the field wire termination area of the cabinet in the workman like manner. This work shall be approved by the traffic signal technician before the field wiring termination work begins. All wire terminations shall be crimped and soldered.

86-2.08A CONDUCTOR IDENTIFICATION - Each multiple conductor cable shall have two distinct identification markings at the signal cabinet and at each pull box as follows:

1. A distinct colored tape marking.
2. An identification tag tie-wrap to identify which signal/pedestrian pole(s) the cable services within the intersection.

All individual conductors, including those within a multiple circuit conductor cable, shall be bundled together by vehicle and pedestrian phases and banded with plastic tie-wrap labels in the signal cabinet, in every pull box (for individual conductors not within a cable), and at their field termination point(s).

Cat5 cables being installed shall be identified with electrical tape at both ends with orange for video and blue for the wireless access point.

86-2.08B MULTIPLE CIRCUIT CONDUCTORS - All new and replacement traffic signal phase wiring shall be comprised of multiple circuit conductors per Section 86.08D of the Caltrans Standard Specifications. A separate 3-conductor cable shall be provided for pedestrian pushbutton wiring. Multiple circuit conductor cable used for vehicle displays shall not be used for any part, hot or common, of the pedestrian pushbutton circuit. Unique color coding shall be provided for each wire within the cable. The number of wires per cable shall be the next common size up from that required to provide the necessary wires as specified on the plans. Phases shall be labeled as described in Section 86-2.08A.

The handling of multiple circuit conductors shall be to the best industry standard practice and as follows:

1. Razor blade knives shall not be used to strip back the outer jacket of insulation. A round cable stripper (example: Clifford #6-670-114-0 or equivalent) shall be the only means of stripping back the outer cable insulation.
2. The outer insulation jacket shall not protrude past the top of the signal cabinet entrance conduits.

86-2.08E SIGNAL INTERCONNECT CABLE - Traffic signal interconnect shall be provided for new signal installations, and for modification of existing signals which currently do not have interconnect. The interconnect cable shall have its own conduit and shall not share conduit with service conductors, signal conductors, or lead-in cables.

The interconnect shall connect the subject signal with at least one existing traffic signal. If the subject signal is between two existing signals, the interconnect shall connect all three signals.

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If a City Parcel is adjacent to a new fiber run, a fiber stub shall be provided.

Signal interconnect cable (SIC) shall be a 9/125um wavelength, 72 to 216 strand, single mode, indoor/outdoor, loose tube, all-dielectric fiber optic cable as specified on the plans.

A Type 1 splice (refer to TS-26) shall be used at traffic signal locations where two point to point fiber cables will be spliced along with a tactical cable to service the local cabinet.

A Type 2 splice (refer to TS-27) shall be used at traffic signal locations where two point to point fiber cables will be spliced along with a tactical cable to service the local cabinet and a fiber cable from an outside facility (UE, IT, etc.) is also being spliced.

A Type 3 splice (refer to TS-28) shall be used at traffic signal locations where two point to point fiber cables forming a network ring path and one fiber cable from a non-ring path will be spliced along with two tactical cables to service the local cabinet.

A Type 4 splice (refer to TS-29) shall be used at traffic signal locations where two point to point fiber cables forming a network ring path will be spliced along with a tactical cable to service the local cabinet and two point to point fiber cables forming a second network ring path will be spliced along with a tactical cable to service the local cabinet.

SIC shall have footage markings every 4 feet. This marking may be on the outside of the cover or on the inside insulation jacket.

The signal interconnect cable shall not be placed in any conduit runs or pull boxes containing live conductors, unless otherwise directed by the Engineer.

Unless specified otherwise on the plans, six (6) feet of copper and/or fifteen (15) feet of fiber optic cable slack shall be provided in each pull box. Fifty (50) feet of copper and/or one hundred (100) feet of fiber optic cable slack for each signal interconnect cable run shall be provided in the dedicated communications Home Run pull box in front of each signal controller or the last pull box before the controller if a dedicated communications Home Run pull box is not available.

At the discretion of the City Engineer existing SIC may be disconnected by the City and moved out of the work area by the contractor during construction. However, the SIC must be reinstalled by the contractor

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within seven days of its disconnection. Otherwise, all SIC must remain operational.

Existing copper SIC damaged during construction shall be replaced at the contractor's cost from controller cabinet to controller cabinet on either end of the damage. Splicing of copper SIC is not allowed. Damaged copper SIC shall be replaced with **fiber optic** SIC, conforming to current City standards including cable, conduit, splices, terminations, patch panels, and pull boxes. The contractor shall also be responsible, at the contractor's cost, to make any additional repairs needed to install the new cable from controller to controller.

Existing fiber optic SIC damaged during construction shall be repaired.

Damage

1. Fiber Optic Cable and related facilities damaged during construction shall be replaced/repared to current City standards and as specified below at the contractor's cost. This work shall include fiber optic cable, conduit, pull boxes/vaults, trenches, concrete, asphalt, traffic control, pull tape, splices, splice enclosures, terminations, labor, etc, as required.
2. Damage is described as a breach in the fiber optic cable jacket, a kink, a break of the cable, or any other condition that causes a reduction in the capacity of the cable.
3. Should fiber optic cable facilities be damaged during construction without visible damage to the cable, the cable shall be tested by a certified fiber optic technician provided by the contractor at the contractor's cost to ensure that there is no internal damage. Should the test show internal damage, the cable shall be replaced as specified below. Otherwise, the cable shall be protected and the facilities repaired to current City standards.

Repair

1. Fiber optic cable running between and terminating at adjacent traffic signals or devices shall be replaced from:
 - i. Termination to termination. All new cable and terminations shall be acceptance tested as required elsewhere in the City standards.
 - ii. If the new cable must be pulled through conduits that contain traffic signal phase wiring, then a "MAX CELL" or equivalent sleeve, per City standards, shall be installed in the conduit prior to the installation of the new fiber optic cable.
 - a. Pull box adjacent to the damage to controller cabinet.

- iii.** No more than 5 feet of slack may be used out of any one pull box.
 - iv.** Pull boxes where new splices shall occur will be replaced with C48 or PL48 vaults as specified in the City standards
 - v.** At least 50 feet of slack must be provided in the new splice vault.
 - vi.** The slack shall be provided in even amounts on either side of the splice enclosure.
 - vii.** Only fusion splicing meeting City standards by a certified fiber optic technician will be allowed.
 - viii.** All new cable, splices, and terminations shall be acceptance tested as required elsewhere in the City standards.
 - ix.** The average optical loss of each splice shall not exceed 0.10 dB. The average is determined by measuring the splice loss in both directions with an OTDR, adding the two readings, and dividing by two. Testing should be performed for both the 1310 and 1550 nm wavelengths.
 - x.** Splicing will not be allowed in pull boxes or vaults shared with non signal interconnect cables.
 - xi.** If the new cable must be pulled through conduits that contain traffic signal phase wiring, then a “MAX CELL” or equivalent sleeve, per City standards, shall be installed in the conduit prior to the installation of the new fiber optic cable.
- 2.** Fiber optic cable running continuously past multiple traffic signal devices may be repaired by splicing at adjacent pull box locations.
- a.** A single splice location may be appropriate if the damage is close enough to the adjacent pull box that the repair may be accomplished by using some of the slack in the existing cable.
 - i.** No more than 5 feet of slack may be used out of any one pull box.
 - ii.** Pull boxes where new splices shall occur will be replaced with C48 or PL48 vaults as specified in the City standards
 - iii.** At least 50 feet of slack must be provided in the new splice vault.
 - iv.** The slack shall be provided in even amounts on either side of the splice enclosure.
 - v.** Only fusion splicing meeting City standards by a certified fiber optic technician will be allowed.

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4. Should the contractor be unable to make the repairs within this time frame, the City will complete temporary repairs and bill the contractor for their time and materials at the City's billable rate. The temporary repair shall be treated with the same restrictions, requirements, and care as the original cable. The contractor will still be required to make the permanent repairs prior to completion of the project.

Temporary copper SIC repairs must be made within 48 hours of the damage and provide sufficient bandwidth and reliability for the intended purpose of the copper SIC. Permanent repairs shall be completed within 30 days of the damage. The City may make the repairs and bill the contractor for the work should the contractor be unwilling or unable to meet these requirements.

Should the copper SIC installation be required by the City, the contractor shall test all copper SIC prior to installation as follows:

1. For continuity of each wire pair. Resistance shall be consistent.
2. For high resistance (meggar) testing (250v setting):
 - a. Each wire pair to ground
 - b. Each wire pair to the cable shielding
 - c. Each wire pair to wire pair
3. The test may be in the field or shop
4. A city technician does not need to be present
5. The contractor shall be liable for all inspection costs related to the removal and re-installation of new cable should untested cable found to be faulty after installation

Fiber optic cable shall be acceptance tested, every strand, both before and after installation at both 1310 and 1550 nm wavelengths. All testing shall be documented on OTDR Acceptance Test and Splice Loss Record forms. Losses shall not exceed 1.85 dB per mile of cable including patch panels and splices.

86-2.09 WIRING - All wiring shall meet or exceed the current CalTrans Standards and National Electrical Code Standards.

86-2.09B WIRING INSTALLATION - Ends of spare conductors or conductors terminated in pull boxes shall be taped and water sealed with Scotch Kote or approved equivalent.

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86-2.09C CONNECTORS AND TERMINALS - Field conductor wiring shall not be doubled up on any single wire connector. For conductor sizes larger than number 10, connections shall be spliced by the use of "C" shaped compression connectors as shown in the CalTrans Standard Plans.

All field wiring connections shall be soldered after crimping the wire connector.

All crimp connectors shall be sized to accommodate the proper wire gauge.

86-2.09D SPLICING - Grounding conductor splicing shall be water sealed with Scotch Kote sealant or an approved equivalent. Two applications are required.

86-2.09E SPLICE INSULATION - All splices shall be Method B. Heat-shrink tubing may be used with prior approval by the Engineer.

86-2.09F FUSED SPLICE CONNECTORS - Field fuses shall be installed in the hand hole of the standard.

All ungrounded conductors shall be fused.

86-2.10 BONDING AND GROUNDING - The second paragraph of Section 86-2.10 of the CalTrans Standard Specifications is amended to read as follows:

Grounding jumper shall be attached by 3/8 inch or larger galvanized bolt in the signal standard or controller pedestal and shall be run to the conduit, ground rod or bonding wire in adjacent pull box. Grounding jumper shall be visible after cap has been placed on foundation. All ground connections shall be water tight.

Grounding electrodes shall be of copper clad steel rod, not less than 5/8 of an inch in diameter x 10 feet in length.

A grounding electrode shall be installed in all electrical services and controller foundations. They shall be spaced a minimum of 20feet apart. See NEC 2011 Part III 250.53(A)(3)

The grounding electrode rod in the pull box shall be greater than 20 feet from the service and shall be paralleled with the grounding electrode rod in the Service. This connection shall consist of a continuous stranded #6 green insulated copper conductor. The ground connection shall be on the line side of the electrical entrance terminal block.

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A continuous stranded # 6 green insulated copper conductor shall connect the ground bus in the electrical service, grounding electrode in service, grounding electrode in the pull box. See Detail TS-25.

The equipment-bonding conductor for all 1B standards shall be visible and accessible after completion of work.

In the event that ground resistance testing failed, the contractor shall install an additional eight (8) foot ground rod in the signal “Home Run” pull box. This additional ground rod shall be paralleled with the grounding electrode in the controller pad and service pad with a continuous stranded #6 green insulated copper conductor. The ground wire for this additional ground rod shall be permanently fused to the rod using a “CADWELDA –PLUS ONE SHOT” connection (See Detail TS-25).

86-2.11 SERVICE - The City shall supply an electrical service consisting of Type III AF, low body configuration, or Type 27-22 service with battery backup system.

The Contractor shall provide an address tag for the service as described in the Roseville Electric Department Specifications for Commercial Construction, Section 6, and “Panel Marking Policy”.

The service pedestal shall be installed a minimum of five (5) feet from the controller cabinet.

A City of Roseville Encroachment Permit is required for every traffic signal installation and/or modification. The project address for the permit shall be the service pedestal address. This address should be noted on the plans but is obtainable from the City in its absence. Minor modifications by City forces not involving the service pedestal are exempt from the encroachment permit requirement. Should a traffic signal be a part of a larger project, there may be an encroachment permit for the entire larger project and one or more permits for each and every signal installation/modification.

There shall be a 1 inch grouted section between the service and the foundation. A ¼ inch weep drain hole shall be installed in this grout section.

86-2.14 TESTING - The contractor shall contact the Construction Inspector at least five (5) working days prior to installation of a tested controller assembly and/or electrical service.

86.2.14B (2) GROUND – Before electrical power can be connected, then grounding electrode shall be tested for earth ground resistance. The

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City Traffic Signal Technician shall perform this ground resistance testing and said test shall be performed after the service and controller pad foundation have cured. The earth ground resistance shall be a maximum of 5 ohms. If the ground resistance testing results are greater than five (5) ohms maximum limit, refer to Section 86-2.10 and drawing TS-25 for corrective action requirements.

86-2.14C FUNCTIONAL TESTING - Functional testing shall be performed for 5 working days prior to signal activation. All systems shall be in place before functional testing can begin.

A shutdown of the electrical system resulting from damage caused by public traffic or from a power interruption shall not constitute discontinuity of the functional test.

During interconnect cable installation, the Contractor shall, in the presence of the City Traffic Signal Technician, perform a high resistance to ground test, DC resistance test and a dB attenuation loss test. The Contractor shall supply factory specifications prior to the test. The Contractor shall notify the Engineer at least 48 hour prior to interconnect cable installation.

86-2.15 SIGNAL ACTIVATION - On the day of signal activation, the contractor shall be required to have in his possession at the job site all tools, equipment and parts necessary to repair a signal malfunction. These items shall include, but not be limited to, a bucket truck, replacement LED's, wire, etc.

Immediately prior to the activation of a **NEW** traffic signal, the contractor shall install two (2) orange flags on the "Signal Ahead" signs. Flags shall remain in place for two (2) weeks.

Prior to activation of a **NEW** traffic signal, the contractor shall provide a minimum of two flaggers per intersection to control traffic. The number of flaggers may be increased at the request of the City's inspector for large intersections at no additional cost to the City. Each flagger shall wear appropriate safety gear and carry a stop paddle for controlling traffic. The flaggers shall completely stop traffic prior to the signal changing from red flash to full operation.

86-3.01 CONTROLLER CABINET ASSEMBLY - The City shall supply the controller cabinet assembly.

Wire connections and/or termination shall comply with section 86-2.08.

The traffic signal controller cabinet shall have a 1" bead of clear silicone sealant applied immediately before installation between the foundation

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and the controller cabinet bottom. The bead shall be centered 2" in from the outer edge of the controller cabinet, around the entire perimeter. All excess silicone on the outer edges shall be cleaned off.

The sealant shall be 35 year rated. There shall be no substitution for the silicone sealant.

On 332 cabinets, the field wire entrance section of the controller shall face the intersection or as directed by the Engineer.

No access to the controller shall be permitted without supervision of a City of Roseville Traffic Signal Technician, unless otherwise directed by the Engineer.

86-3.08 EMERGENCY VEHICLE PREEMPTION EQUIPMENT - The City shall supply emergency vehicle preemption equipment, with the exception of the required cabling from the optical detector to the discriminator in the Controller Cabinet Assembly.

Where existing signals are being modified, and said signals are already equipped with emergency vehicle preemption equipment, the Contractor shall perform any necessary remodel and reinstallation of said equipment as required by the plans or as directed by the City Engineer.

Preemption cables shall be labeled in the following manner:

Phase 2&5 single gray band
Phase 4&7 double gray band
Phase 1&6 triple gray band
Phase 3&8 quadruple gray band

Labels shall consist of banded colored tape visible at the preemption detector, signal standard hand hole, adjacent pull box and the Controller Cabinet. Cables in the Controller Cabinet shall have tie wrap labels with appropriate phasing descriptions.

86-4.01 VEHICLE SIGNAL FACES - All signal faces shall be aluminum. All mountings for shall be bronze metal.

Signal faces shall have 12-inch LED displays, unless otherwise specified.

Vehicle signals and pedestrian signals shall be of the following types:

MAT (3 section only)
MAS
MAS-4C (split phase operation)
SV-1-T

SV-2-TB
SV-3-TB
TV-1-T
TV-2-T
TV-3-T
SP-1-CS

The MAT mounting shall only be used for 3 section vehicle signals for protected left turn movements. All other mast arm mounted vehicle signals shall be MAS mounted.

All signal sections shall have full circle visors unless directed otherwise on the plans.

The following vehicle signal alignments are typical. Variations may be required on a case by case basis.

1. For single left turn lanes with protected left turn movement, the left turn signal shall line up with the center of the left turn lane as close as possible.
2. For dual left turn lanes (which shall have a protected movement), the left turn signal shall line up with the line between the two left turn lanes as close as possible.
3. Through movement signal indications shall align as follows:
 - 1 travel lane – the center of the lane.
 - 2 travel lanes – the lane line in-between the two lanes
 - 3 or more travel lanes – one signal indication shall be provided on each lane line between through lanes.
4. For one through lane with permissive left turn, the MAS signal shall line up as close as possible with the center of the through lane. Far left permissive signal indications shall not be used.
5. When a 4 section MAS (MAS-4C) signal is used, it shall line up with:
 - The lane line between the through and the left turn, or
 - The lane line between dual left turn lanes at a “T” intersection, or
 - The center of a single left turn lane at a “T” intersection, or
 - The center of a split phase shared through/left turn lane at a “T” intersection.

Typical indications are as follows:

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1. For protected left turn movements: one 3-section all arrow MAT and one 3-section all arrow far left side pole-mounted signal.
2. For through movements (with protected left turns): one 3-section MAS, one 3-section far right side pole-mounted signal, and one 3-section near right side or top pole-mounted signal.
3. For through movements (with permissive left turns): one 3-section MAS, one 3-section far right side pole-mounted signal, and one 3-section near right side pole-mounted signal. Far left permissive signal indications shall not be used.
4. For split phased situations: one 4-section MAS (MAS-4C w/GA), one 3-section far left side pole-mounted signal (all Arrow), one 3-section far right side pole-mounted signal, and one 3-section near right side pole-mounted signal.
5. For right turn arrow overlap situations: same as above except the far right side and near right side pole-mounted signals shall be 5-section with green and yellow arrows. Right turn arrow overlaps shall not be provided without prior approval of the City Engineer. Where right turn arrow overlaps are provided, the conflicting U-turn shall be prohibited via signage.

86-4.01B SIGNAL SECTIONS - All signal sections shall be 12-inch mold-cast aluminum.

86-4.02 LIGHT EMITTING DIODE SIGNAL AND PEDESTRIAN MODULE - All vehicle and pedestrian displays shall be supplied with LED countdown signal lamps. Contact the City Traffic Section for an approved list of vendors and model numbers.

86-4.04 BACKPLATES - All vehicle signal sections shall include aluminum backplates with perforated louvers.

86-4.05 PROGRAMMED VISIBILITY VEHICLE SIGNAL FACES (PV DISPLAY) - All programming of the optic display shall be done in accordance with the manufacturer and the City Engineers' specifications. Programmed visibility heads shall not be used without prior approval from the Engineer and shall be LED type.

86-4.05B FRONT SCREEN - The front screen shall be plastic.

86-4.06 PEDESTRIAN SIGNAL FACES - **Pedestrian** signals shall be aluminum Type "A" with international symbols.

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Pedestrian heads shall be mounted on the intersection side of the signal pole unless otherwise directed by the Engineer.

Pedestrian head indications shall be 9" LED countdown type. Contact the City for approved vendors and models.

86-4.08 SIGNAL MOUNTING ASSEMBLIES - Terminal compartments (TV & SV), mast arm slip fitters (MAS & MAT), and pedestrian clam shell mounts shall be bronze.

Signal mast arm mounted four (4) section displays shall be type MAS-4C.

Extra support shall be incorporated whenever the following conditions arise:

1. The use of a SV-3-TA or SV-3-TB display.
2. If any display on a side mount is larger than a 3-section 12" display.

The extra support method shall consist of a 1" stand off w/ ¼" X 20 threaded hole. The stand-off shall be banded to the signal standard, 3" below the bottom of the top slip fitting of the displays' 1½ inch riser. A ¼ inch hole shall be drilled in the center of the 1½ inch riser to match the position of the thread hole on the stand-off. The riser shall be attached to the standoff with a ¼" X 20 bolt, which shall include a lock washer and flat washer.

All signal display mounting assembly top members shall be watertight. The watertight sealing method shall be a ½" thick layer of clear silicone around the top jointing member of all displays. Additional sealant shall be installed in the same manner on all plugs installed in the top of any signal display. Rubber washers used for water-sealing the top assembly shall not be permitted on any display framework or MAT mounting even if supplied by the manufacturer.

All MAT mounted signal displays shall have only one (1) serrated washer installed between the lock nut and the display.

All MAT and MAS mounts shall be sealed with approved clear silicone around the tenon attachment area, including the through bolt and tenon openings.

The sealant shall be 35 year rated. There shall be no substitution for the silicone sealant.

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Where no vehicle or pedestrian displays are to be installed on the side of a signal pole, a terminal compartment only shall be installed on the signal pole at the vehicle display position. All signal display wiring from the signal mast arm shall terminate at this location.

Pedestrian head mounts shall be clam shell type with bronze mounting hardware. Mounting shall include one Allen head screw for opening and all wiring shall be quick connect type (plug in).

86-5.01A(4) VEHICLE DETECTORS CONSTRUCTION MATERIALS - The first front call loops shall be Type D or a "Quadra Circle". All other vehicle loops shall be type A. Refer to details TS-9 and TS-10 for further information. The loops nearest the stop bar shall be placed 1 foot from the stop bar. Where a loop is designated to have counting ability as discussed above, the loop shall not share an input with any other loop. Loop wire shall terminate in the nearest pull box and not the hand hole.

Vehicle loop wire shall be Type 1, RHW-USE, neoprene-jacketed, cross-linked polyethylene insulated, # 12 stranded copper.

All loops placed in concrete shall be City approved performed loops (See City approved equipment list).

Bicycle detection loops shall be Type D modified as follows:

- The loop size shall be decreased such that it is 1 foot narrower than the bike lane. A 6 foot bike lane shall have a 5 x 5 foot loop, a 5 foot bike lane shall have a 4 x 4 foot loop, etc.
- The loop shall be centered in the lane.
- The center of the loop shall be 3 feet back of the crosswalk/stop bar.
- Each bicycle loop shall have its own detector lead-in cable and shall be spliced in the pull box not the handhole.
- Each loop shall consist of five turns of 14 AWG with XLLP insulation.

Lead-in cable shall be Type B copper. Tinned copper shall not be permitted. Lead-in cable shall not be spliced between the termination point (pull box adjacent to the detector loop) and the controller cabinet terminals.

Detector hand holes shall be Type "B". Hand holes shall be placed so they line up with roadway stripes to minimize the frequency of vehicle tires driving over the handhole covers. A sufficient number of handholes shall be placed so that detector loop saw cuts shall not cross adjacent lanes of travel.

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Traffic signal detectors must remain operational at all times unless approved by the City Engineer. Damaged detectors must be replaced within 24 hours. The contractor may use temporary detection including temporary loops, tape down loops, video detection, and microwave detection should the signal loop replacement need to be delayed more than 24 hours.

86-5.01A (5) VEHICLE DETECTORS INSTALLATION DETAILS - The Engineer, prior to saw cutting, shall verify all loop locations. The contractor shall give 48 hours notice prior to loop verification. Debris from saw-cutting operations shall be recovered immediately and disposed of properly. At no time can debris from saw-cutting operations enter the storm drain system.

Signal loops installed in new pavement shall be placed in the lift of asphalt concrete (AC) immediately below the final lift. The new bottom lift of AC shall be a minimum of 2 inches thick where the traffic signal loops will be installed. New loops that will be buried under AC shall be installed in a 1¾" slot in the bottom lift. Loops installed in existing pavement where existing loops are surface cut on that same approach may also be surface cut per the State of California Standard Plans unless otherwise directed by the Engineer. Vehicle loops shall have four (4) turns of wire in the slot. Bicycle loops shall have five (5) turns.

Existing buried loops damaged by construction shall be reinstalled as if in new pavement per the above paragraph. The contractor shall grind a minimum of 1 ½ inches of pavement from lane line to lane line and at least 1 foot outside the limits of work required to install the entire loop wire. The loops shall then be covered by an asphalt concrete overlay per City Standards. Should the AC thickness be insufficient to install the loops as specified above, the contractor shall complete any additional grinding, excavating, or paving necessary to install the loops.

New loops installed in existing pavement with a Pavement Quality Index (PQI) of 8.5/85 or greater shall be installed as if in new pavement per the above paragraphs unless the roadway was recently resurfaced.

New loops installed in existing pavement with a Pavement Quality Index of 8.5/85 or greater and resurfaced within the past three years, shall be surface cut per the State of California Standard Plans. In addition, the pavement shall be resurfaced with the resurfacing material used in the previous resurfacing project or as otherwise approved by the City Engineer.

Loop wires shall be labeled in the following manner:

lane 1-black

lane 5 -yellow

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lane 2-red
lane 3-blue
lane 4-white

right turn lane - orange

1. Labels shall consist of banded colored tape visible in the pull boxes, where the loop wire is spliced to the detector lead-in cable.
2. Loop detectors shall be clearly marked to reference their location in relation to the limit line and lane. The loop closest to the crosswalk in the left most lane shall be labeled as loop number 1-1. The second loop in the same lane shall be labeled 1-2, and so on. Refer to details TS-9 and TS-10 for further information.
3. The start and end leads of a loop detector shall be clearly marked by a means of plastic tie wrap labels.

Loop Home Run slots shall be double cut to accommodate the twisted pair (3-turns/foot), or as directed by the Engineer. Sealant for filling slots shall be Hot Melt Rubberized Asphaltic Sealant or equivalent as approved by the Engineer. All excess sealant shall be squeezed off after application.

During loop installation, the Contractor shall in the presence of the Engineer, perform a high resistance test and an inductive reactance test. The Contractor shall notify the Engineer at least 48 hour prior to loop installation.

All wires for each detector loop shall terminate in the nearest pull box, not the hand hole.

Lead-in cables shall not be spliced between the termination point (the pull box adjacent to loop detectors) and the controller cabinet terminals.

Where the approved plans call for preformed detector loops, the following shall apply:

1. The conduit shall be sealed to prevent the entrance of water and the movement of wires within the conduit.
2. The loop wires from the preformed loop to the adjacent pull box or hand hole shall be twisted together into a pair (at least three (3) turns per foot) and encased in Schedule 40 or Schedule 80 PVC or polypropylene conduit (3/8 inches minimum diameter). The lead-in conduit shall be sealed to prevent the entrance of water at the pull box and hand hole end.

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3. The preformed loop and lead-in conduits shall be placed prior to pouring final concrete. The top of the conduit shall be between 2 and 3 inches below top of finished surface. Where the concrete is steel reinforced, the preformed loops may rest on the steel.
4. All detector loop shields shall be left 6" in length and wrapped around the DLC and secured with shrink wrap.

Typical vehicle detector layout and inputs shall be as follows (see details TS-9 and TS-10):

1. For permissive or protected left turn situations, the left turn lane shall have four loops with the first and second loops spaced 8 feet apart, the second and third loops spaced 9 feet apart, and the third and fourth loops spaced 10 feet apart. The fourth loop shall have counting ability. The other three loops can share one input.
2. Each through lane shall have two call loops spaced 8 feet apart with one count loop spaced 9 feet behind the second call loop and one advanced loop placed per the CMUTCD.
3. Each right turn only lane shall have one loop placed 30 feet behind the stop bar in line with the through lane count loops. The loop shall be used for counting and may be used for detection following a 10 second minimum delay.
4. For the stem of a "tee" intersection, each left turn lane shall have four loops with the first and second loops spaced 8 feet apart, the second and third loops spaced 9 feet apart, and the third and fourth loops spaced 10 feet apart. The fourth loop shall have counting ability. The other three loops can share one input. No intermediate or advanced loops will be required on "tee" stems.
5. For split phase signals with a shared through/left turn lane, the shared lane shall have four loops with the first and second loops spaced 8 feet apart, the second and third loops spaced 9 feet apart, and the third and fourth loops spaced 10 feet apart. The fourth loop shall have counting ability. There shall also be one advanced loop placed per the CMUTCD.
6. Any loop installed where the associated DLC has a run length greater than 250 feet, the loop installation shall have 4 wraps.

86-5.01E DETECTOR LOOP CIRCUITRY - Adjacent loops on the same sensor unit channel shall be wound in opposite directions (refer to details TS-9 and TS-10 for further information). All loops shall be wound in a manner such that any adjacent loop will be wound in the opposite

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direction. The loop at the limit line, closest to the center median (lane 1), shall be wound in a clockwise direction. The next loop back in the same lane shall be wound in a counter-clockwise direction and so on. The loop detector in lane 2 closest to the limit line, shall be wound in a counterclockwise direction.

86-5.02 PEDESTRIAN PUSH BUTTON ASSEMBLIES - Pedestrian push buttons shall be aluminum Type “B” with metal international symbol signs. Push buttons shall meet all Americans with Disabilities Act guidelines and be placed 36 inches above the grade of the closest edge of sidewalk and require a horizontal reach of no more than 18 inches outside the closest edge of sidewalk. Buttons shall be solid state, two tone audible, momentary LED type. Contact the City for approved vendors and models. Audible Ped APS shall be on separate posts as directed by the City. The Contractor shall provide a City approved wave file.

Pedestrian push buttons shall be within five (5) feet from the edge of the access ramp pan (CMUTCD Figure 4E-2).

86-6.01 HIGH PRESSURE SODIUM LUMINAIRES - All traffic signal luminaires shall be 400 watt equivalent LED unless directed otherwise by the City. See the City’s website for a list of approved equipment. Two (2) separate 120 volt circuits shall be provided to equally split the powerload.

86-6.065 INTERNALLY ILLUMINATED STREET NAME SIGNS - Internally illuminated street name signs shall be slim profile, LED with City logo. Contact the City for approved vendors and models. Sign proofs must be approved by the City prior to ordering equipment.

Internally Illuminated Street Name Signs (IISNS) shall require a City Traffic Engineering accepted stamp for all layout proof matching existing City LED IISNS’s prior to ordering. Only products with prior approval from the City shall be allowed.

1. Refer to City of Roseville Construction Standards Section 56 “Signs”.
2. Internally Illuminated Street Name Signs (IISNS)
 - a. All proof require a City approved layout matching existing City LED IISNS’s prior to ordering.
 - b. IISNS name panels shall be manufactured as follows:
 - i. Sign panel material shall be clear (not opaque) poly. Thickness of the panel shall be 3.5 mm/6.0 mm maximum.
 - ii. Sign panels background sheeting shall be: 3M DG3 (Diamond Grade) series 4090. Color (White).

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- iii. Etched sheeting (Street name and City of Roseville logo) shall be 3M EC 1177c material. Color (Green).
- iv. Manufacture shall warranty, no chemical reaction, shall be exhibited between the background sheeting and etched sheeting components.
- v. The IISNS shall be double sided with street names on both sides.

86-6.07 PHOTOELECTRIC CONTROLS - Photoelectric controls shall be Type II and pole top mounted.

The Contractor shall supply all equipment, supplies, and material required for mounting the photoelectric cell.

86-6.07B(4) WIRING - Wiring from the photoelectric cell assembly to the electrical service shall be # 14. Wire color for the PEU shall be as follows: black for ungrounded conductor, red for ungrounded switch-leg conductor, and white for grounded conductor.

86-7.01 REMOVING ELECTRICAL EQUIPMENT - All existing traffic control devices, lighting devices, signs, and equipment to be removed and not reused in the work shall be salvaged, unless otherwise specified or directed by the City Engineer. Salvageable equipment shall remain the property of the City. Equipment determined to be unsalvageable by the City Engineer shall become the property of the Contractor. The Contractor shall deliver salvaged equipment to the City's Corporation Yard located at 2005 Hilltop Circle, Roseville, following at least 48 hours advance notice of delivery.

Damaged conduits deemed to not be reusable shall be removed from existing pull boxes and ends plugged solid with grout. Existing conductors shall be removed from said conduits prior to plugging. Contractor shall dispose of said conductors.

Abandoned conduits deemed reusable shall have the line blown out, existing conductors shall be removed, a number 10 green locate wire shall be installed, and the ends of the conduits shall be sealed.

SECTION 91

SANITARY SEWER SYSTEM CONSTRUCTION

91-1 GENERAL – Sewer pipe and fittings shall be installed in accordance with the requirements of these Construction Standards and as recommended by the manufacturer. These Construction Standards and manufacturer's guidelines shall be present at the construction site at all times.

91-2 CONNECTION TO EXISTING FACILITIES – Connection to existing City sewer facilities may be made upon approval of the Environmental Utilities Department.

A. The Environmental Utilities Department has the option of making any system tap as required on the plans. Should the Environmental Utilities Department elect to perform the tap, the Contractor shall pay for such work on a time and materials reimbursement basis. The Contractor shall be responsible for the following task associated with the tap, and as determined by the Environmental Utilities Department:

1. Coordinating the work requested with the Sewer Division and the Environmental Utilities Department inspector. This shall include discussions on provisions for materials and equipment required to complete the work.
2. Providing traffic control per the City's Public Works Department requirements.
3. Excavating the work area, as agreed upon by the Environmental Utilities Department.
4. Providing sheeting, shoring, and bracing as required.
5. Providing lighting as required if the tap is to be performed at night.
6. Backfilling, compacting, and pavement restoration of the excavation(s) upon tap completion.

B. Existing Sewer Stubs – The contractor shall excavate and connect to an existing sewer stub in the presence of the Environmental Utilities Department inspector. Existing stubs shall be air tested by contractor and CCTV'd by Environmental Utilities before connecting. If an existing stub is found damaged, the contractor shall remove and replace prior to connecting. Contractor shall incur all expenses. A note to this effect shall be placed on the improvement plans.

C. Sewer System Outfalls – Sewer system outfalls shall be mechanically plugged and grouted. The plug shall remain in place until final acceptance by the Environmental Utilities Department.

91-3 CONSTRUCTION STAKING – The sewer main shall be staked prior to installation. Such staking shall provide the station and offset to the sewer main, as well as the cut to the nearest one-tenth foot (0.10'). Stakes shall be provided at a minimum of every 50 feet in tangent sections and every 25 feet in curved sections, and every 10 feet in approved vertical curve sections.

91-4 EARTHWORK – Earthwork required to construct sewer facilities and appurtenances shall be performed to the lines and grades shown on the approved project plans and as specified in the following:

A. Excavations – Pipeline excavations shall be open-cut trenches, unless otherwise specified on the approved improvement plans, with vertical sides to the pipe crown as specified on Construction Standard Detail SS-1. Excavations shall conform to all applicable Federal and State safety requirements. The contractor shall appoint a designated “competent person” during construction.

B. Trench Width – The trench bottom width to 6 inches above top of pipe shall comply with Construction Standard Detail SS-1 or as approved by the Environmental Utilities Department.

C. Compaction – Compaction of the trench shall conform to Construction Standard Detail SS-1. Compaction test results shall be supplied to the Environmental Utilities Department upon request. Jetting of trenches is not allowed.

D. Weather – During inclement weather, trenches shall be excavated only as far as pipe can be laid and backfilled during the course of the day.

E. Existing Roadways – Trenching in existing roadways shall be limited to the length of pipe that can be laid that day. No open trenches shall be left overnight. Exposed trenches shall be plated or backfilled as approved by the Environmental Utilities Department inspector and the Development Services Department.

F. Excess Material – Excess material and materials determined unsuitable for backfill by the Environmental Utilities Department inspector shall be removed from the project site.

91-5 DEWATERING – Dewatering for the installation of structure and pipelines shall commence when groundwater is first encountered and shall be continuous until the excavation is backfilled. Best Management Practices, including but not limited to scouring and erosion measures, shall

be used to eliminate sediment-laden discharges in accordance with the approved SWPP.

91-6 PIPE BEDDING – Conform to Construction Standard Detail SS-1 and the following:

- A.** Bedding shall provide uniform and continuous support along the barrel of the pipe. The minimum depth of bedding material shall be provided under the bell. Blocking of the pipe is not permitted.
- B.** Loose material shall be removed from the trench bottom and replaced with imported material.
- C.** Where rocky, unyielding or unsuitable foundation material is encountered, the subgrade shall be over-excavated a minimum of 4 inches and replaced with imported bedding material.
- D.** Where the trench bottom is soft, yielding or unstable, the trench bottom shall be over-excavated and $\frac{3}{4}$ -inch crushed rock shall be placed in the trench to provide a stable foundation, to the satisfaction of the Environmental Utilities Department inspector. The rock is in addition to the required pipe bedding used in the pipe zone.
- E.** Where a saturated trench condition is encountered, the trench wall and pipe shall be lined with a geotextile fabric as shown on Construction Standard Detail SS-1, and to the satisfaction of the Environmental Utilities Department inspector.
- F.** Bell holes shall be excavated per the manufacturer's recommendations. The minimum depth of bedding material shall be provided under the bell. Care shall be taken to ensure that the bell hole is no larger than necessary to accomplish proper joint assembly.

91-7 CONCRETE CRADLES, ARCHES & ENCASEMENTS and TRENCH DAMS – Concrete cradles, arches and encasements and trench dams shall conform to the Construction Standard Details W-23, W-24, and the following:

- A.** Concrete shall conform to the requirements of the construction standards.
- B.** The pipe shall be placed in proper position on temporary cradles or arches consisting of concrete block or bricks. When necessary, the pipe shall be rigidly anchored or weighted to prevent flotation when the concrete is placed.

- C.** Cradles and arches shall be constructed with an ability to adjust the pipe to proper grade in order to avoid vertical joint pull. Cradles and arches shall be placed at one-third and halfway points along each pipe segment where specified. Concrete placed beneath the pipe shall be sufficiently workable to fill the voids without excessive vibration. The concrete shall be allowed to cure and remain undisturbed for 24 hours prior to backfill and compaction of the trench.
- D.** Restrained pipe within casings, bridges, shall be fully extended or “stretched out” to remove the slack between the joints the entire length of the structure.
- E.** Water shall not be permitted to enter, seep, or run onto the concrete while curing.
- F.** Trench dams shall be constructed of controlled density fill or clay as shown on the drawings or as directed by the Environmental Utilities Department inspector. Trench dam excavations shall be made into native earthen materials to the dimensions shown on the drawings or as directed by the Environmental Utilities Department inspector. Clay materials shall be moisture conditioned to near-optimum moisture content prior to placement in the excavation and compacted to the required relative compaction.

91-8 PIPE ZONE BACKFILL – Pipe zone backfill shall conform to Construction Standard Detail SS-1 and the following:

- A.** Extreme care shall be taken when consolidating the backfill around the pipe zone. For pipe 12 inches in diameter and smaller, no more than one-half of the pipe shall be covered prior to shovel slicing the haunches of the pipe. For pipe greater than 12 inches in diameter, no more than 6 inches shall be covered prior to shovel slicing. Sufficient care shall be taken to prevent movement of the pipe and damage to the polyethylene encasement during shovel slicing. Shovel slicing shall be witnessed by the Environmental Utilities Department inspector prior to shading the pipe.
- B.** Compaction equipment shall not make direct contact with the pipe.
- C.** Where the pipe is to be installed below historic groundwater levels or where the trench is subject to inundation, crushed rock material shall be placed to the crown of the pipe. Additionally, geotextile fabric shall be installed per Construction Standard Detail SS-1.

91-9 PIPE INSTALLATION – The sewer system outfall(s) shall be mechanically plugged and grouted, and shall remain plugged until final acceptance. Sewer pipe (gravity and pressure) shall be installed in accordance with the following provisions:

- A.** The Contractor shall keep the pipe interior free from foreign materials and in a clean and sanitary condition until acceptance by the City. At times when pipe-laying is not in progress, the open pipe end shall be sealed with a tight cap or plug to prevent foreign matter from entering the pipe. Provisions shall apply to the noon-hour as well as overnight.
- B.** Trenches shall be in a reasonably dry condition when pipe is laid.
- C.** Care shall be taken, when lowering pipe into the trench, to protect the pipe from damage. Chains are not permitted. The pipe shall be laid carefully to the lines and grades shown without grade breaks, unless designed with such, or to minimum depths shown on the approved plans. If field conditions exist such that the pipe may not be laid to the specified grade, the approved plans will require revisions prior to proceeding with construction.
- D.** Pipe sections shall be closely jointed to form a smooth flowline. Care shall be taken in placing the pipe and making field joints.
- E.** Improvements installed without proper inspection shall be exposed and inspected as required by the Environmental Utilities Department inspector.
- F.** All installations shall follow manufacturer's recommendations unless otherwise noted on the approved plans. The manufacturer's installation guide shall be on the job site at all times.
- G.** A 12-inch wide metallic backfill tape with the warning "Buried Sewer Main" shall be placed in the trench lines of all mains and services, within 12 to 24 inches of the subgrade.
- H.** Mains in unpaved areas shall be marked every 125 lineal feet with a green composite utility marker having a decal stating "Caution Buried Sewer Pipeline." Appurtenances (such as manholes, valves, ARV's, test stations, etc.) and angle points shall also be marked. Mains in landscaped areas shall be delineated with a brass marker set in an 8-inch diameter concrete cylinder.
- I. Vitrified Clay Pipe (VCP) Installation** – Pipe-laying shall proceed upgrade with the bell end of the pipe placed upstream, and shall follow manufacturer's guidelines for installation.

J. Ductile Iron Pipe (DIP) Installation – DIP for sewer applications shall have an interior coating with “Protecto 401” (or approved equal) unless otherwise specified on the approved plans. The pipe shall be exothermically welded, electrically continuous as described herein. DIP shall be encased in polyethylene as specified in Section 81, Domestic Water Supply System Construction, of these Construction Standards. DIP sewer systems shall be constructed per the manufacture’s recommendations and the following:

1. Gravity Installations – Transitions from DIP to VCP pipes shall be in accordance with Section 91-9.K of these specifications.

2. Force Main Installations – The force main shall be constructed and tested in accordance with the water pressure pipe standards established in Section 81, Domestic Water Supply System Construction, of these Construction Standards, with the following deviations:

2a. The force main will not require disinfecting or water quality testing. The main shall be pre-flushed again with a properly sized “pig” after the pressure test. Flushing shall occur in the presence of an Environmental Utilities Department Inspector.

2b. Backfill tape shall be 12-inch wide green plastic stating “Buried Sewer Force Main.”

2c. Exothermic welds shall be made on the bell of the pipe as near to the edge as possible and on the weld pads provided on the spigot end of the pipe. Exothermic welds shall conform to Section 81, Domestic Water Supply System Construction, of these Construction Standards.

2d. When it is necessary to cut a “Protecto-401” treated pipe, the City’s Wastewater Division shall make all repairs prior to installation. Coordinate through the Environmental Utilities Department inspector.

2e. All DIP fittings for wastewater use shall have an interior coating with “Protecto-401.”

2f. Tracing wire shall be installed per Section 81, Domestic Water Supply System Construction, of these Standards. Above ground access to the tracing wire shall not exceed 500 linear feet along the main. Access shall be provided by raising and securing the tracing wire through a conduit into a valve box. This location shall be 2 feet minimum from back of walk and marked per standards.

K. Transitions between VCP and DIP – When specified on the approved Improvements Plans, transitions between VCP and DIP shall be made using one of the following two methods:

1. Manufactured “speed-seal” gasketed DIP spigot. The transition fitting shall be manufactured by the Environmental Utilities Department. The Contractor shall incur all expenses.
2. At a manhole. If a pre-cast manhole is to be used, a manufactured transition shall be used. If a cast-in-place manhole is used, a flex joint is not required.

L. Boring – Borings for installation of sewer lines shall be made per Detail W-22 and as follows:

1. The equipment, method and sequence of operation and casing pipe grades shall be approved by the Environmental Utilities Department. A minimum of 48 hours notice shall be given prior to the start of work. Excavation for the boring operation shall be the minimum necessary to satisfactorily complete the work. Bracing and shoring shall be adequate to protect workers and any adjacent structure or roadbed.
2. **Casing** - Welded steel casing pipe shall have a minimum wall thickness of a ¼-inch for pipe 24 inches in diameter and under, and 5/16-inch for pipe 27 inches through 36 inches in diameter. Casing material larger than 36 inches shall be engineered on a case by case basis.
3. **Installation of Casing** – The casing shall closely follow the boring operation. The bored hole shall not be more than one-tenth foot (0.10') larger in diameter than the outside diameter of the conductor. Guide rails shall be accurately set to line and grade to insure installation of the casing within allowable limits. The casing diameter shall be sufficient to allow adjustment of line and grade of the conducted pipe to meet allowable tolerances and to allow sand to be placed between the conductor and the conducted pipe.

The inside diameter of the casing shall be a minimum of 10 inches larger than the outside diameter of the conducted pipe bell or joint, as approved by the Environmental Utilities Department. A minimum of 4 inches clearance shall be required between the conducted pipe and the casing, taking the skids into consideration.

- 4. Placing Pipe in Casing** – Conducted pipe shall be fully restrained ductile iron with Protecto 401 interior coating, supported by a minimum of three sets of Calpico or equal synthetic skids per stick of pipe, or as required by the Environmental Utilities Department. Pipe sections shall be joined outside of the casing. The skids and casing entrance shall be lubricated prior to sliding the conducted pipe into place. The height of the skids may be adjusted to meet specified grades.

The space between the conducted pipe and casing shall be completely filled with clean, dry silica sand, blown into place. Both ends of the casing shall be plugged with non-shrink grout a minimum of 12 inches into the casing. Both ends shall have a pipe of sufficient diameter placed through the mortar plug and parallel with the conducted pipe. One pipe shall be used for blowing the sand into the annular space. The other pipe shall remain open for venting. Prior to starting, the method of placing sand in the void shall be approved by the Environmental Utilities Department.

- 5. Backfill of Voids** – When, in the opinion of the Developer's design engineer or geotechnical engineer, the nature of the soil indicated the likelihood of ground loss which would result in a greater space between the outer surface of the casing than allowed, the Contractor shall take immediate steps to prevent such occurrences by installing a jacking head extending at least 18 inches from the leading edge of the casing.

The jacking head shall cover the upper two-thirds of the casing and project not more than ½-inch beyond the casing outer surface. Excavation shall not be made in advance of the jacking head. Voids greater than allowable shall be filled with sand, soil cement, grout, or as approved by the Environmental Utilities Department. Where voids are suspected, the Developer's design or geotechnical engineer may direct the Contractor to drill the casing, to pressure inject grout to refusal and repair the drilled hole. Grouting pressure shall not exceed 50 pounds per square inch at the nozzle.

- 6.** Utilizing the City's drainage system for residual discharge from boring operations without the required measures is prohibited. This discharge is a violation of the City's Stormwater Ordinance and the Clean Water Act. Discharge fluid shall be recovered, contained and discharges at an appropriate location, or if the situation allows, fluid may be discarded into an open area with the pre-written approval of the property owner and approval from the Regional Water Quality Control Board (RWQCB) provided it meets RWQCB requirements and does not impact

sensitive areas such as wetlands, creeks or other natural water conveyances.

All street boring shall include adequate measures to mitigate sediment-laden water discharge. An acceptable measure is pumping the discharge fluid into a tanker and hauling it away. Other measures suggested by the Contractor will be considered by the City. The City stormwater or construction inspector shall inspect and monitor the discharge recovery, containment, and restoration process.

91-10 MANHOLE INSTALLATION – Manholes shall be installed in accordance with the Construction Standard Details and as specified herein:

- A.** Manholes shall be set flush with finish grade, unless otherwise noted on the approved plans.
- B.** Manholes placed in off-site, unimproved areas shall be constructed with the top of the casting cover a minimum of 1 foot above the final surrounding grade. A minimum 12-inch wide concrete collar with a #4 rebar ring shall be constructed around the casting and 6 inches below finish grade.
- C.** Manholes placed in landscape areas adjacent to City improvements shall be constructed with the top of the casting cover a minimum of 6 inches above the final surrounding grade. A minimum 12-inch wide concrete collar with a #4 rebar ring shall be constructed around the casting and 6 inches below finish grade.
- D.** VCP pipe entering a sewer manhole shall have a flex joint at the manhole base. A flex joint consists of a bell and spigot joint at the manhole with only bell ends cast into the manhole base, and a second bell and spigot joint located 12 inches to 24 inches outside of the manhole. Service “Y’s” shall not be installed directly onto a manhole.
- E.** Manhole lids and castings for 48 inch diameter barrels shall be 24-inch diameter. Manhole lids and castings for 60” barrels shall be 36 inch diameter. Lid shall be bolt-down type with two cast-in-place bars and a gas detector probe hole, and have no poke holes. Lids shall be bolted when a manhole is constructed outside a paved area, as specified on the approved plans, or as directed by the Environmental Utilities Department inspector. Manholes constructed outside of paved area shall use a GMI composite lid and frame.

- F.** Sewer mains or services entering an existing manhole shall be core drilled, without exception. The space between the pipe and the manhole shall be filled with non-shrink grout.
- G.** Any work on an existing sewer manhole shall require the manhole to pass a vacuum test as described in section 91-13 of these Construction Standards. The work completed shall remain exposed until the vacuum test has been accepted by the Environmental Utilities Department inspector.
- H.** Concrete manhole bases may be either pre-cast or cast-in-place. Pre-cast bases shall conform to section 91-16 of these Construction Standards. Cast-in-place manholes shall be constructed in accordance with the details provided in these Construction Standards and as follows:
 - 1.** Concrete shall be vibrated to reduce porosity for vacuum testing. Concrete shall be Class A, six sack mix conforming to ASTM C-150 Specifications with Type V cement for sulfate protection.
 - 2.** Belled pups set in the manhole base wall shall be set flush with the exterior of the wall. The “speed-seal” on the spigot end shall be cut off prior to setting.
 - 3.** Unless specified on the approved plans, there shall be a 0.10-foot drop constructed across the manhole base.
 - 4.** The top of the base shall be formed to accept the first barrel section. Wet setting is not permitted. Ram neck shall be installed on this first joint after the Environmental Utilities Department inspector has approved the manhole base for stacking.
 - 5.** The concrete on cast-in-place bases shall cure a minimum of 24 hours before stacking the barrel sections.
 - 6.** The bedding shall consist of a minimum of 4 inches of compacted crushed rock.
 - 7.** Flow through manholes shall have the pipe laid continuously as a whole pipe with flex joints and a minimum 0.10-foot drop, or as approved. After the initial 24-hour curing period, the top half of the pipe shall be carefully cut off without cracking the bottom. The sides shall be mortared smooth.

- I. Adjusting Manholes** – The manhole neck and frame shall be adjusted to grade. Use of metal grade rings is not permitted. The finished manhole shall conform to Construction Standard Detail SS-2, or as approved by the Environmental Utilities Department.
- J. Frame and Lid** – The manhole frame and lid shall be sealed with an approved rubber gasket. Manholes constructed in streets shall have the lid bolt holes filled with silicone. Manholes constructed outside of the street or paved area shall be bolted down.
- K. Epoxy Coated Manholes** – Sewer manholes requiring an epoxy coating shall first pass a vacuum test, per Section 91-12 of these Construction Standards, and shall then be constructed as follows:
1. The exterior of the manhole shall be coated with an asphaltic material and wrapped in 8-mil polyethylene sheeting prior to backfilling. Use to 10-mil vinyl tape to secure and seal the polyethylene per Section 81 of these standards.
 2. All voids and imperfections in the interior of the manhole shall be mortared or “sacked” smooth with a cement paste composed of 50 percent Portland cement and 50 percent sand. The mortar mixture shall be manually worked into the dampened surface with sufficient pressure to completely fill voids and imperfections. The surface shall then be finished smooth.
 - 2a. This process shall be continued until the entire manhole surface (base, barrel, cone, neck and joints) is smooth and free of imperfections. Note that it is not required to cover the entire interior surface area of the manhole, only where voids or imperfections exist.
 - 2b. Upon receiving the Environmental Utilities Department inspector's approval of the sacking, the outlet channel(s) of the manhole to be epoxied and the first upstream manhole shall be mechanically plugged to prevent water flow. The newly sacked manhole shall cure for a period of 28 days.
 3. The epoxy coating and applicator's certification must be submitted to the Environmental Utilities Department for approval. The approved coating may be applied after the 28-day curing period has ended. An accepted method of epoxy application is as follows:

- 3a.** Mask off the metal frame.
- 3b.** Sandblast the interior concrete surfaces of the sewer manhole.
- 3c.** Apply a sealer/primer approved by construction inspector and allow curing per the manufacturer's recommendations. Application may be withheld if, in the opinion of the Environmental Utilities Department inspector, the walls of the manhole exceed the recommended moisture content. A visqueen test may be performed to determine the absence of moisture.
- 3d.** Apply an approved epoxy to obtain a minimum thickness of 80 mils and allow curing per the manufacturer's recommendations.
- 3e.** Verify the thickness and adherence of the coating by coring samples, to the satisfaction of the Environmental Utilities Department inspector.
- 3f.** Repair the sampled areas and allow the repairs to cure.
- 3g.** "Spark test" the entire epoxy surface area. The electrode shall provide a minimum of 10,000 volts. Areas failing the spark test shall be removed, repaired and retested.
- 3h.** After approval from the Environmental Utilities Department inspector, remove the masking from the metal frame and use "Sikaflex" (or approved equal) sealant to caulk to transition joint between the epoxy coating and the metal frame.
- 3i.** Use "Sikaflex" (or approved equal) sealant at the concrete VCP interface and for all epoxy transitions.
- 3j.** Remove the plugs.
- 3k.** Calcium aluminate may be used in lieu of epoxy coating. Calcium aluminate is to be installed per manufacture specifications. When calcium aluminate is used, the contractor is to TV the line to ensure no grout entered the line during application.

91-11 SERVICE INSTALLATION – Sewer services shall be installed in accordance with Construction Standard Details SS-4 and SS-5.

- A.** Sewer services originating from sewer mains 14 feet in depth or greater shall have the crotch on the VCP “Y” fitting filled with concrete.

91-12 TESTING OF INSTALLED IMPROVEMENTS – Sewer mains, services, manholes and appurtenances shall be tested by the following procedures:

- A. Sewer Mains and Services** – Public and private sewer mains and services shall be air-tested per ASTM C828 by the Contractor and the Environmental Utilities Department shall provide closed circuit TV inspection, after installation of the joint trench utility crossings and subgrade elevations have been met. Additionally, pipeline segments beneath road bases to be lime-treated shall be tested before and after the lime treatment process.

- B. Air Pressure Test** – Sewer mains and laterals shall be pressure tested in accordance with the National Clay Pipe Institute recommended guidelines with the following amendment:

- 1.** Minimum test time shall be 60 seconds.
 - 2.** For mains installed in an area where the water table is higher than the pipe, the test pressure shall be increased 0.5 PSI per foot of water over the pipe.
 - 3.** The test gauge shall be liquid-filled, capable of testing up to 15 PSI, and graduated to 1/10 PSI.

- C. TV Inspection** – TV inspection of sewer mains and services shall be performed by the Environmental Utilities Department, Wastewater Division. Costs for said inspection shall be borne by the Contractor. Preliminary inspections may be performed by outside contractors, but shall not be accepted by the Environmental Utilities Department as an official record.

- 1.** The sewer system shall be completely cleaned by an approved method prior to TV inspection. The sewer system shall be rejected if any of the following conditions exist:
 - 1a.** Standing water or sags greater than ½-inch in depth.
 - 1b.** Standing water in services.
 - 1c.** Offset joints.

1d. Joint separations greater than ½ -inch wide.

1e. Damaged pipe.

D. Manholes – Sewer manholes shall pass a vacuum test consisting of the following criteria and procedures:

- 1.** The test shall be performed after assembly of the manhole and installation of the pipe entering or exiting the manhole, but prior to backfilling. The Contractor shall perform the test and supply all test equipment. An Environmental Utilities Department inspector shall witness the test results.
- 2.** Lift holes shall be filled with non-shrink grout prior to testing.
- 3.** Pipe entering and exiting the manhole shall be plugged. The plug shall be placed on the flex joint outside of the manhole base. Securely brace the plugs to prevent them from being drawn into the manhole. Unused channels shall be permanently plugged with a plastic or clay stopper.
- 4.** A vacuum of 10 inches of mercury shall be drawn to start the test. The amount of time required for the vacuum to drop to 9 inches shall be measured. The manhole will pass the test if the amount of elapsed time is greater than 60 seconds for a 48" manhole, 75 seconds for a 60" manhole, 90 seconds for a 72" manhole and 120 seconds for an 84" manhole. A liquid-filled vacuum gauge shall be used for testing. All detectable leaks shall be repaired with non-shrink grout while the vacuum is drawn.
- 5.** If the manhole fails the initial test, necessary repairs shall be made with a non-shrink grout while the vacuum is still being drawn. Retesting shall proceed until elapsed times are satisfactory.
- 6.** After passing the vacuum test, all joints shall then be mortared, inside and out. Outside mortared joints shall be allowed to dry 24 hours or as approved by the Environmental Utilities Department inspector before backfilling.
- 7.** If damage to the manhole is evident any time during the construction, the Environmental Utilities Department inspector may require repairs to be made on the manhole which will require a new vacuum test prior to acceptance.

E. Manholes – Topside Improvements – When all water, recycled water and sewer infrastructures have passed air, vacuum, pressure and continuity test as well as CCTV inspection the EU inspector shall send a memo to the Development Services Inspector indicating that the project is ready for road bases and top side improvements only. This does not constitute approval for use of the infrastructure.

F. Tying Into the City System – A tie-in procedure shall be submitted and approved by the Environmental Utilities Department prior to the proposed work. The contractor shall allow for up to seven days for review of the procedures by the Environmental Utilities Department. The sewer system shall be tied into the City system within 10 working days upon completing and passing all the testing procedures. Tie-ins shall be conducted as specified in Section 91-2 of these Construction Standards.

91-13 PUNCHLIST PROCESS – After the sewer manholes have been raised and finished to grade, the sewer system shall have a final ball and flushed in the presence of an Environmental Utilities Department inspector. The system shall then have a final TV inspection to ensure the entire sewer system is intact for warranty. Final ball and flush can be done by city forces on a time and material basis at the request of the contractor.

When all improvements are complete, the contractor shall provide a written request for a punch list inspection of the improvements. With the assistance and presence of the Contractor, the wastewater facilities punchlist shall be generated by the Environmental Utilities Department inspector and Wastewater Collection Division.

91-14 REPAIRING INSTALLED IMPROVEMENTS – Sewer mains, services, manholes and appurtenances shall be repaired per these Construction Standards and by the following procedures:

A. Repairing Vitrified Clay Pipe

1. Damaged pipe shall be exposed and replaced in-kind by “bridging” the new pipe into place. Coupling devices shall not be used.
2. Sagging or misaligned pipe shall be exposed and corrected in place if possible. If the pipe is defective, then a new pipe shall be bridged in place.
3. After the correction has been completed, the excavation shall be backfilled and compacted to grade as specified. The repairs

shall then be retested per section 91-12 of these Construction Standards.

91-15 ABANDONING SEWER STUBS AND SERVICES – In new construction, sewer stubs and services to be abandoned shall be removed to the main or manhole of origination. Abandonment of existing sewer stubs shall be as directed by the Environmental Utilities Director.

91-16 MATERIALS

A. Approved Equal – The words “approved equal” shall mean any material deemed by the Environmental Utilities Department to be acceptable for use within the City’s sewer system as compared to products of specified manufacturers. Contractors proposing to use materials which are not specifically named shall submit all necessary documentation to allow review of said material for use as an approved equal.

The submittal shall include a letter with:

- 1. Product** – A description of the product and the appropriate materials specification section number. A sample of the product may be required for review and testing.
- 2. Contact** – The name and telephone number of the contact person for the proposed product.
- 3. Reference** – A list of a minimum of three agencies using the proposed product (include names and telephone numbers).
- 4. Performance** – Information and reference for three locations with a performance record of three years in operation of the installation.
- 5.** Address the letter to the Environmental Utilities Department Engineering Division, 2005 Hilltop Circle, Roseville, CA 95747, ATTN: EUD, Chairman of METAC. City staff may request a sample of the product for review.
- 6.** The Contractor shall submit all material for review 35 days prior to contract award. All submittals shall include documentation verifying contract award date. Contractors shall allow two to four weeks review time by the Environmental Utilities Department.

B. Conditionally Approved Material – Materials or products that have met the reference and performance requirements shall be conditionally approved for a minimum trial period of 2 years. Upon completion of the two year period, the product may be approved, the evaluation period may be extended, or the product may be denied approval as determined by the Environmental Utilities Director. A list of conditionally approved products may be obtained from the Environmental Utilities Department.

C. Unapproved Materials – Materials not approved for use on the project shall be removed from the site within 24 hours if requested by the Environmental Utilities Department inspector.

D. Sewer Main and Services – Unless noted on the approved plans, all gravity pipe shall be Vitrified Clay Pipe Bell and Spigot (VCP), conforming to ASTM C700-C301, C828 Standards. The VCP shall be Extra Strength and shall not be dipped in solution or glazed to enhance air pressure tests.

All force main pressure pipe will be Ductile Iron Pipe (DIP) manufactured by Pacific States Company, US Pipe, Griffin, or approved equal. The interior of the DIP shall be coated with Protecto 401 from bell gasket seat to 8 inches of spigot end exterior. The Protecto 401 coated DIP shall be manufactured with an exothermic weld (cadweld) plate installed on the spigot end.

E. Manholes – Manholes, frames and covers are to be in accordance with details SS-2 and SS-3. All materials used in cast-in-place concrete or precast concrete shall conform to ASTM C-150 Specifications with Type V cement for sulfate protection.

1. Barrels, Cones, and Lids

1a. 48" Manhole Material:

- i.** Jensen Precast 36" eccentric cone, #CN48E36 or approved equal
- ii.** Jensen Precast 30" concentric cone, #CN48C30 or approved equal
- iii.** Jensen Precast 24" concentric cone, #CN48C24 or approved equal
- iv.** Jensen Precast 18" concentric cone, #CN48C18 or approved equal

- v.** Jensen Precast 12" barrel, #BL485812S or approved equal
- vi.** Jensen Precast 18" barrel, #BL485818 or approved equal
- vii.** Jensen Precast 24" barrel, #BL485824S or approved equal
- viii.** Jensen Precast 36" barrel, #BL485836S or approved equal
- ix.** Jensen Precast 48" barrel, #BL485848S or approved equal

1b. 60" Manhole Material:

- i.** Jensen Precast 36" concentric reducer cone, #CNR603636 or approved equal
- ii.** Jensen Precast 48" transition slab #TS604812 or approved equal
- iii.** Jensen Precast 36" barrel, #BL607236 or approved equal
- iv.** Jensen Precast flat lid with 24" opening, (either eccentric or concentric opening) #FT6024C or #FT6024E ++ or approved equal
- v.** Jensen Precast flat lid with 36" opening (either eccentric or concentric opening), #FT6036C or #FT6036E or approved equal

1c. 72" Manhole Material:

- i.** Jensen Precast 12" barrel section, #BL728612 or approved equal
- ii.** Jensen Precast 24" barrel section, #BL728624 or approved equal
- iii.** Jensen Precast 36" barrel section, #BL728636 or approved equal
- iv.** Jensen Precast flat lid with 24" concentrate opening, #FT7224C or approved equal

- v. Jensen Precast flat lid with 36" concentric opening, #FT7236C or approved equal

2. Grade Rings

- 2a. Jensen Precast 3" grade ring (5" walls), #GR243403 or GR304003 or approved equal
- 2b. Jensen Precast 6" grade ring (5" walls), #GR243406 or GR304006 or approved equal
- 2c. Jensen Precast 6" grade ring (6" walls), GR364806 or approved equal
- 2d. Jensen Precast 3" grade ring (6" walls), #GR364803 or approved equal

3. Manhole Frame and Cover

- 3a. **For 24" Openings:** South Bay Foundry, #SBF 1920 RV-S, GMI Composite frame and cover 2600 Series, Saint-Gobian PAM, Rexus – CDRU60EHSEW, D&L Supply - #A-1021 with "sniffer plug" and "O" ring gasket, National Casting Corporation - NC 1021 or approved equal
- 3b. **For 36" Openings:** GMI Composite frame and cover 3800 Series or approved equal due to safety reasons.

4. Precast Bottom

- 4a. Jensen Precast 6"-two way, #MBS4824-2W-6C or approved equal
- 4b. Jensen Precast 8"-two way, #MBS4824-180-8C or approved equal
- 4c. Jensen Precast 6"- 90 degree left, #MBS4824-90L-6C or approved equal
- 4d. Jensen Precast 6"-90 degree right, #MBS4824-90R-6C or approved equal
- 4e. Jensen Precast 8" - 90 degree left, #MBS4824-90L-8C or approved equal

- 4f.** Jensen Precast 8" - 90 degree right, #MBS4824-90R-8C or approved equal
- 4g.** Jensen Precast 6"- clay, three way, #MBS4824-3W-6C or approved equal
- 4h.** Jensen Precast 8"- clay, three way, #MBS4824-3W-8C or approved equal
- 4i.** Jensen Precast 6"- clay, four way, #MBS48245W-4W-6C or approved equal
- 4j.** Jensen Precast 8"- clay, four way, #MBS4824-4W-8C or approved equal
- 4k.** Jensen Precast 6" – clay outlet, 4" cul-de-sac base, #MBS4824-6W-6CUL or approved equal
- 4l.** Jensen Precast 8" – clay outlet, 4" cul-de-sac base, #MBS4824-6W8CUL or approved equal
- 4m.** Jensen Precast 10" – two way, #MBS4824-2W-10C or approved equal
- 4n.** Jensen Precast 12" – two way, #MBS4824-180-12C or approved equal

5. Precast Flat Lid

- 5a.** Jensen Precast 6" lid, 24" concentric opening, #FT4824C or approved equal
- 5b.** Jensen Precast 6" lid, 36" concentric opening, #FT4836C or approved equal

F. Appurtenances

- 1. Air Release Valve** – APCO Model 450 or approved equal.
- 2. Clay to Concrete Sealant** – Secca Flex or approved equal.
- 3. Trench Dam** – Clay or Controlled Density Fill.
- 4. Cleanout Caps** – ABS.
- 5. Couplings** – For 4-inch lines, use Flex Seal Repair Coupling for ABS cap only, or approved equal. For 4- to 12- inch lines,

use Mission Rubber Repair Coupling or approved equal. Couplings may not be used in new construction.

6. Flange Gaskets – All flange gaskets to be neoprene rubber or red rubber, USSO Standard B.16.21 insulation flange kits—Calpico Type E full-face gasket and two-side insulation.

7. Joint Sealing Compound - Ram-Nek, Con Seal Compound or approved equal.

8. Location Stakes – Carsonite 4” x 5” CUM 375 with anchor barb kit or approved equal.

8a. Caution stickers attached, #CW-112 and organization identification decal #P101, stating:

“CITY OF ROSEVILLE—CALL BEFORE DIGGING (916) 774-5750”.

8b. For pressurized sewer mains, use decal #CPS-1977. For gravity sewer mains, use decal # CS-225.

9. Mortar – Non-shrink grout during manhole vacuum testing and as specified. Standard mortar mix for all other applications.

10. Silicone – 100 percent silicone with a 25-year life, or approved equal.

11. MH Coatings – Hydro Pox 204 or approved equal.
--Calcium aluminate

12. Wastewater Marking Tape – Terra Tape Extra Stretch 450 Material, detectable, 12”-wide or approved equal. Non-Detectable for sewer force mains.

13. Grease Interceptor – Jensen Precast or approved equal.

91-17 ILLEGAL USE OF SEWER SYSTEM – If Stormwater enters the sewer system, the Contractor and/or Owner/Developer shall be charged according to Title 14.16.220 of the City of Roseville Municipal Code. Stormwater run-off shall be classified as “low-strength metered commercial users.” The sewer unit shall be one sewer unit per 1,000 cubic feet discharge. The Environmental Utilities Department shall determine the volume of discharge.

91-18. CONDITIONALLY APPROVED

The following products are conditionally approved in the City for a period of 2 years conditional acceptance period, the product may be granted approved equal status and be added to the list of approved products in the City of Roseville Standards.

- 1.** Old Castle Precast (U.S. Concrete)
 - a.** Sewer Manholes and Appurtenances
 - b.** Grease interceptors

SECTION 101

DRAINAGE

101-1 GENERAL –Drainage improvements are to include: culverts, drop inlets, lined channels, turf reinforcement matting, manholes, Stormwater quality control measures, outlet and inlet structures and storm drain pipe. These improvements shall be installed in accordance with the approved improvement plans, these Construction Standards, the Stormwater Quality Design Manual for the Sacramento and South Placer Regions, the City of Roseville Stormwater Quality BMP Guidance Manual for Construction, and the latest edition of the State of California Department of Transportation Standard Specifications hereinafter referred to as the Caltrans Standard Specifications. These Standards shall apply to the public right of way and easements and private on-site drainage improvements. Several items within this section shall apply to on-site improvements and in conformance to stormwater quality requirements

The City of Roseville has adopted Stormwater quality design standards to reduce water pollution generated by urban runoff. These design standards are detailed in the Stormwater Quality Design Manual for the Sacramento and South Placer Regions. This manual is available on-line at the Sacramento Stormwater Management partnership website, www.sacramentostormwater.org/SSQP/SSQP.asp. The Manual can also be purchased at the City's Permit Center located on the first floor of the Civic Center Building at 311 Vernon Street downtown Roseville.

Storm Water Pollution Prevention Plans (SWPPP's), as defined by the State, shall not be required for projects smaller than one acre in size, provided the project is not part of a larger project. An erosion and sediment plan shall be required as part of the project improvement plan submittal that identifies temporary and permanent Best Management Practices (BMP's).

The Owner of the property or their permit applicant representative may be responsible for Storm Water Inspection services, as required through such time the project is deemed complete.

101-2 CONSTRUCTION STAKING - The Developer for all drainage improvements shall provide Construction staking. Such staking shall provide the station and offset, as well as the cut to the nearest hundredth of a foot, 0.01 feet. Stakes shall be provided at a minimum of every 50 feet in tangent sections and every 25 feet in curved sections. Cut sheets shall be on-site and shall be furnished to the City's Construction Inspector upon request.

101-3 DROP INLET INSTALLATION - Drop inlet installations shall conform to Construction Standard Details DR-1, DR-2 and DR-3 and to provisions in Sections 51 and 52 of the Caltrans Standard Specifications. The interior of the drop inlet shall have a troweled finish; rock pockets shall be grouted and brushed; exposed top surfaces shall have a Class I Surface Finish. Within all City streets and easements and within all commercial sites and private residential subdivisions, a fish stamp conforming to Construction Standard Detail DR 20 shall be placed adjacent to all drop inlets. If the storm drain system is active and open to discharges, then immediately following installation, all storm drain inlets shall be protected with sediment control protection until construction no longer poses a risk of sediment discharges.

101-4 MANHOLE INSTALLATION

A. Bases -

- 1. Precast-** Precast bases shall be placed on a foundation of ½ inch minus crushed rock, a minimum of 4 inches thick, compacted to 90 Percent relative compaction. Elevation differentials of inlets and outlets shall conform to the approved improvement plans. Openings in the base shall align true with all inlet and outlet pipes. Stub-out or couplings provided in precast bases shall be of the same material as the pipe to which they connect, unless otherwise approved by the City's Construction Inspector.
- 2. Cast-in-Place Base -** The cast-in-place base portion shall not be placed higher than 6 inches above the outside tops of the main incoming and outgoing pipes.

The wall thicknesses for the top of the cast-in-place base sections shall conform to the following table:

Manhole Diameter	Minimum Wall Thickness
48"	5"
60"	6"
72"	7"
84"	8"
96"	9"

Inside diameters of cast-in-place base portions shall equal the inside diameter of the manhole specified. Standard precast manhole riser sections and/or cones shall be placed above the cast-in-place section to bring the manhole rim to finish grade. Upon pouring the concrete base, the top surface of the cast in place base barrel shall be stamped with a rigid impression ring in order to

match it up with the above, precast barrel section. As an alternate, a maximum one-foot barrel section may be stacked when it is determined that the concrete for the base is adequately stiff.

A 24-hour minimum curing time is required before manhole stacking is allowed.

All inlets and outlets with a 30-inch inside diameter or smaller, connecting to existing manholes, shall be core bored.

Concrete in the cast-in-place portion shall be placed against undisturbed earth or upon a base of crushed rock or sand. All loose material shall be removed from the excavation prior to installation.

B. Cones - Cone tops shall be placed within 7 to 18 inches of final street grade. Where depth is insufficient for cones, flat slab tops shall be used. Lifting rings in precast cones shall be plugged with dry packed mortar.

C. Joints - Joints in precast manhole sections shall be made with either mortar or plastic sealing compound.

1. Mortar Application - All joint surfaces and the face of the manhole base shall be thoroughly cleaned and wetted before applying mortar. Both the inside and outside of mortared joints shall be plastered with mortar, and the inside surfaces brushed to a smooth finish with a wet brush. Special precautions shall be taken to ensure that the entire joint space is filled with mortar and is water tight.

2. Plastic Sealing Compound Application - All joint surfaces and the face of the manhole base shall be thoroughly cleaned before applying plastic sealing compound. The sealing compound shall be protected from dirt during application. Ends of the compound shall be joined end-to-end and not joined by overlapping. Sufficient compound shall be used to cause a visual "squeeze-out" of the compound material when adjacent sections are seated.

Squeeze-out material on the inside of the manhole shall be neatly trimmed flush with the inside surface.

D. Connections - Pipe connections to drainage manholes shall be made so that the pipe is flush with the inside face of the manhole. These connections shall be finished so that entrances are smooth. Unless the manhole is cast around the pipe, connections shall be made with dry packed cement mortar. Pipe connections shall not be made into the cone section of the manhole unless shown on the approved plans.

- E. Grade Rings** - Grade adjustments shall be made using precast grade rings. Precast rings shall be a minimum of 0 inches in height. The total height of the grade rings, frame, and cover casting shall not exceed 18 inches.
- F. Frames and Covers** - The tops of frames and covers shall be set no more than 1/8th inch below finish grade pavement in the street and six inches above finish grade in landscape areas and 12 inches in unimproved, isolated areas unless otherwise shown on the approved plans. Per the Construction Standard Details, a 12-inch deep by 12-inch wide concrete collar shall be placed around the casting, covered by three inches of asphalt concrete paving in a street area, per Detail DR-4. The concrete collar shall be in conformance to Section 90-10, "minor concrete". All joints between the frame, grade rings, dome, barrels and base shall be sealed with non-shrink mortar, or an approved plastic sealing material. Inside the manhole, all joints where the sealing material is not flush with the inside wall shall be grouted with non-shrink mortar and finished/wet-brushed.
- G. Adjusting Existing Manhole Frames** - The frame shall be supported above the grade ring or dome by spacers, or by suspending with timber and wires. After the concrete collar is poured, any space between the frame and grade ring and dome shall be filled with non-shrink mortar, and the inside wall of the riser finished/wet-brushed.
- H. Compaction** - Compaction around storm drain manholes shall conform to Construction Standard Details TB-1 and TB-3.
- 101-5 JUNCTION BOXES/VAULTS- Manholes** shall not exceed 96 inches in diameter. Where the number of pipes and/or pipe diameters requires a larger structure than a 96-inch diameter manhole, junction boxes or vaults are required. A registered civil engineer shall design vaults. Shops drawings shall be submitted and approved by the City Engineer.
- 101-6 PIPE INSTALLATION** - All drainage improvements shall conform the following requirements:
- A. Excavation** - Pipeline excavation shall be open-cut trenches, unless otherwise specified on the approved improvement plans. All excavations shall adhere to all applicable Federal and State safety requirements. All work shall be conducted in such a manner as to prevent damage to new and existing facilities or adjoining property.
- Wherever the trench bottom is unstable, the area shall be excavated and an adequate amount of ½ inch crushed rock shall be compacted in place to provide a stable base for the pipe. Pipe bedding material, per approved plans, will be placed on top of stabilized trench bottom.

B. Trench Width - A minimum clearance of six inches shall be maintained between the pipe and the trench wall for reinforced concrete pipe and ductile iron pipe. See Detail TB-2 for trench widths for non-rigid pipe.

C. Pipe Bedding - Pipes shall be placed on a firm bed of imported granular material conforming to Details TB-1, TB-2 and TB-3. Unless unstable pipe bedding subgrade needs to be removed, pipe bedding shall only be placed on native, undisturbed soil. Prior to placing pipe bedding, the trench bottom shall be free of any loose material.

D. Laying Pipe - The pipe shall be laid up-stream with the bell end of the pipe placed up-stream. The interior of the pipe shall be kept clean as the work progresses. There shall not be a change in pipe material between storm drain structures.

1. Handling, Laying and Backfill of Polyvinyl Chloride (PVC), and High Density Polyethylene Pipe (HDPE) and Steel Reinforced High Density Polyethylene Pipe (SRHDPE) – The pipe shall be handled in accordance with the manufacturer's published recommendations. Laying and backfill shall conform to Caltrans Standard Specifications, the manufacturer's recommendations, ASTM D-2321 and Construction Standard Detail TB-2, with the following modifications:

- a. Due to the lightweight characteristic of the pipe, extreme care shall be taken to avoid displacing the pipe during the backfilling operation. Following placement of the pipe on the required bedding and to the required grade, the pipe shall be stabilized in place with ballast. At a minimum, this shall be accomplished by loading the pipe down slowly and carefully with small piles of embedment material to a minimum of one foot above the pipe on each joint and midway on each length. The pipe shall be kept centered in the trench during this operation. Every precaution shall be taken to avoid flooding the trench prior to placing backfill. The City's Construction Inspector may require dewatering the trench to confirm pipe grade, and to retest the integrity of the pipe following trench flooding.
- b. The trench shall be backfilled with embedment material 6 to 12 inches above the pipe, prior to continuing with the trench backfill.
- c. Pipe material shall not change between manhole structures or between the last structure and the discharge/inlet opening.
- d. The pipe run between the last structure and the discharge/inlet opening shall be reinforced concrete. Pipe stub runs from storm

drain mains into commercial sites shall also be reinforced concrete.

- e. No pipe, conduit or any other appurtenance shall be located within any existing or newly constructed storm drainpipe or culvert. Each run of storm drainpipe and culvert shall also be 100% clear and unobstructed the total length.

E. Non Rigid (PVC/HDPE/SRHDPE) Pipe Testing - A mandrel test shall be conducted following completion of subgrade processing and compaction for curb gutter and sidewalk and asphalt concrete pavement. Placement of curb, gutter and sidewalk and asphalt concrete pavement (and related aggregate base) shall not occur until the Public Works Inspector has approved the mandrel test. The City's Construction Inspector shall be present through the duration of the mandrel testing.

The allowable deflection (reduction in vertical inside diameter) for all non-rigid pipes shall be 7.5% maximum. The deflection shall be tested by pulling a mandrel which is 92.5% of the inside pipe diameter through all installed pipe. The mandrel shall be the "go/no-go:" type and shall be pulled per the manufacturer's recommendations without mechanical assistance. Prior to the mandrel test, the pipe shall be thoroughly flushed and cleaned, (See Subsection "J" below). Obstacles in the pipe shall be removed. At each location in which the mandrel cannot pass, the cause shall be ascertained. If it is found the deflection exceeds 7.5 % or that a gasket has been mis-installed, or that the pipe has been damaged due to construction activities, then the respective section of pipe shall be repaired and retested. Pipe section repair operations may require rebedding pipe, replacing pipe, or both as needed to properly repair pipe section. Watertight repair couplings shall be used in repair. A passing mandrel retest is required.

At the contractor's discretion, any sections of non-rigid pipe not passing the mandrel test may be televised to evaluate the problem.

F. Pipe Laying Tolerances - The pipes shall be laid true to line and grade with allowed tolerances of 0.03 foot above or below the design grade and 0.10 foot left or right of the design alignment.

G. Trench Backfill- Initial backfill material shall be place immediately after pipe joints have been completed inspected and passed by the City's Construction Inspector.

The material shall be carefully placed so as not to disturb or damage the pipe, and shall be brought up evenly on both sides. Trench backfill shall be placed in accordance with Section 111 of these Construction Standards.

H. Cast-in-Place Concrete Pipe - Cast-in-place concrete pipe shall conform to provisions in Section 63 of the Caltrans Standard Specifications. Where excavations for other utilities undermine installed cast-in-place pipe, that excavation shall be backfilled to the spring line of the cast-in-place pipe with two-sack slurry per these Standards.

I. Pavement Cutting and Repaving - When the trench line is in an existing pavement area, the pavement shall be sawed or scored and broken ahead of trenching operations.

The proper tools and equipment shall be used in marking and removal of the pavement such that it is cut accurately to a neat and parallel line on either side of the trench width required, in conformance with the Trench Cut Ordinance. All cuts in Portland cement concrete pavements shall be sawcut with equipment approved by the City's Construction Inspector. See Section 31, Trench Backfill, of these Standards.

J. Cleaning of Storm Drain System - The storm drain system shall be cleaned to the satisfaction of the City's Construction Inspector upon completion. If flushing is utilized, then the discharge shall not be routed into the existing City system. The downstream manhole shall be plugged and the discharge fluid shall be disposed of in a manner satisfactory to the City's Construction Inspector. Flushing shall comply with requirements of Section 21-2 U of these Standards.

101-7 CHANNEL LINING INSTALLATIONS - Channel lining installations shall conform to Construction Standard DR-16 and 17 and to the following specifications:

A. Surface Preparation - The surfaces of the areas to be lined shall be evenly graded to the lines and grade and sections as indicated on the approved plans. The surfaces shall be moistened thoroughly to prevent moisture from being drawn from the freshly placed lining.

All surfaces on which lining is to be placed shall be free from water, mud and debris and shall be firm enough to prevent contamination of the fresh lining by earth or other foreign material. Prior to placing any lining, the Contractor shall verify line and grade of the excavated channel.

B. Reinforcement - Welded wire fabric shall be embedded in the concrete so that it will be a minimum of 1 inch clear from either face of the concrete, unless otherwise noted.

C. Joints

- 1. Construction Joints** - Shall be square and edged with a 1/4-inch radius-edging tool. The edge shall be thoroughly wetted before the next section of lining is placed. Construction joints shall be constructed whenever the operation is halted for a period exceeding 30 minutes. Welded wire fabric reinforcing shall extend through the construction joint.
 - 2. Deep Tool Joints** - Transverse deep tool joints shall be constructed at 10-foot intervals. The aggregate shall be separated with the joint tool a minimum of two inches deep. Immediately following application of the deep tool, a 1/4-inch grooving tool shall be applied to the surface to seal the joint.
- D. Weep Holes** - On channels with side lining extending more than 18 inches vertically above the channel toe, weep holes shall be constructed at intervals of 10 feet, midway between contraction joints on each side of the channel. The weep hole elevation shall be 12 inches above the adjacent toe of slope.
- The holes shall be backed by a minimum of 1 cubic foot of aggregate material tied in a burlap bag.
- The aggregate shall extend at least 6 inches above and below and to each side of the weep hole, and at least 10 inches into the side slope. The side and back of the burlap sack shall be protected from being coated by mortar or concrete during the lining placing operation.
- On the day following the lining placement, each weep hole shall be rodded to assure it has not been blocked. The weep hole shall then be cut to fit the channel slope.
- E. Cutoff Walls** - Cutoff walls shall be constructed around the perimeter at each end of the channel lining and at all locations where the new lining meets structures or existing lining, and at all other locations shown on the approved plans. The cutoff walls shall be a minimum of 6 inches thick and 18 inches in depth, as measured from the surface of the lining. The welded wire fabric shall be bent down into the cutoff walls.
- F. Geotextile Linings** -shall follow the manufacture's recommendations for preparation of soil, seed bedding, blanket orientation, anchoring details, and appropriate seed blend and application rates.

101-8 MATERIALS

A. Backfill Material - All Drainpipe backfill material shall conform to Construction Standard Details TB-1, TB-2, TB-3, TB-4 and TB-5.

B. Drop Inlets - All drop inlets shall conform to Construction Standard Details DR-1, DR-2 and DR-3. Concrete shall conform to these standards.

C. Manholes - All precast manhole barrels, risers, cones, flat tops and grade rings shall conform to ASTM Designation C478 and shall conform to dimensions shown on Construction Standard Details DR-4 through DR-8 inclusive.

1. Bases - Bases shall be either precast or cast-in-place. Precast bases shall conform to ASTM Designation. Cast-in-place bases shall be of minor concrete with cementitious content of not less than 505 pounds per cubic yard, with a maximum size aggregate not greater than one-inch or smaller than 3/8-inch., per Section 90 of the Caltrans Standard. Slump shall not exceed 4 inches as determined by the slump cone method of ASTM Designation C143 or an equivalent slump as determined by CTM533.

2. Barrels - Manhole barrels shall conform to dimensions of Jensen Precast Products or approved equal, and shall conform to ASTM Designation C478.

3. Cones - All cones shall be concentric (unless otherwise shown on the approved improvement plans), Jensen Precast Products and conform to ASTM Designation C478.

4. Joints/Mortar - Joints shall be made with either non-shrinking mortar or with a plastic sealing compound conforming to Federal Specification SS-S-002-10. Mortar shall consist of one cubic foot of Portland cement to two cubic feet of concrete sand.

5. Manhole Frames and Covers - All manhole frames and covers shall be of cast iron or ductile iron and conform to ASTM Designation A48, C478 or ASTM A536 for Ductile Iron or, Class 30 and shall be the following or approved equal for the indicated size and application:

a. 24 inch frame and slotted cover: D&L Supply #A-1021 (standard 6 5/8-inch high) or South Bay Foundry #D1920; "D" shall be embossed in center.

b. 36 inch frame and cover: D&L Supply #A-1462 or South Bay Foundry #D1907; "D" shall be embossed in center.

- c. 24 inch frame and slotted cover: D&L Supply #C-2660 (#A-1021 with slotted cover), or South Bay Foundry #1920 (specify slotted cover).
- d. Short 24 inch frames and covers: D&L Supply #A-1022 (5-inch) and #A1023 (3-inch); South bay Foundry #1922 (5-inch) and #1923 (3-inch).
- e. Rexus Manhole Cover: Saint-Gobain Pam, CDRU6oEHDRA, 24-inch round lightweight hinged, ductile iron manhole cover.
- f. Crisp boxed survey monument with plastic form without company name is an approved alternate per Detail ST-36.

Note: Covers for all 24-inch frames are interchangeable.

D. Storm Drain Pipe - Storm drainpipe; shall conform to the following:

1. **Cast-in-Place Concrete Pipe** - Concrete shall be Type II Modified Portland Cement content of the minor concrete shall not be less than 550 pounds per cubic yard, with a maximum size aggregate not greater than one-inch or smaller than 3/8-inch, and shall conform to the requirements of Sections 63 and 90 of the Caltrans State Specifications.
2. **High Density Polyethylene Pipe (HDPE)** - HDPE shall be type "S", conforming to Section 64 of the Caltrans Standard Specifications. Joint connections shall be water tight, rubber ring gasketed. HDPE shall be Hancor (Sure Lok F477), ADS, Inc. (N-12 Pro Link Ultra) or approved equal.
3. **Polyvinyl Chloride Pipe (PVC)** - PVC shall conform to the following standards based on pipe diameter:

Pipe Diameter	ASTM Designation
12" through 15"	D3034, SDR 35
18" through 27"	F794, F2241, SDR 51
30" through 48"	F794

All PVC pipe joints shall be integral wall bell and spigot configuration, factory formed. All rubber rings shall conform to ASTM Designation F477.

4. **Precast Reinforced Concrete Pipe (RCP)** - RCP shall conform to ASTM Designation C76 for Class I, II, III, IV or V. The class of pipe shall be based on the designation conforming to the approved plans.

Joints for RCP shall be bell and spigot with rubber gasket. The gasket shall conform to Section 65 of the Caltrans Standard Specifications.

5. Steel Reinforced High Density Polyethylene Pipe (SRHDPE) – SRHDPE shall be manufactured in accordance with ASTM F2562 “Standard Specification for Steel Reinforced Thermoplastic Ribbed Pipe and Fittings for Non-Pressure Drainage and Sewerage”. SRHDPE shall be manufactured from high density polyethylene stress rated resins conforming to the minimum requirements of cell classification 345464 C per ASTM D3350 “Standard Specification for Polyethylene Plastic Pipes and Fittings Material”. Joints shall be watertight to an internal water pressure of 15 psi when tested in accordance with ASTM D3212 “Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals”. SRHDPE shall be CONTECH (DuroMaxx) or approved equal.

E. Stormwater Treatment Devices - Devices to be used in conjunction with treatment train configurations shall demonstrate removal rates of urban pollutants, measured as Total Suspended Solids (TSS), in the order of 80% reductions. All devices shall be pre-approved by the City Engineer, and identified in the projects Stormwater Pollution Prevention Plan, (SWPPP).

F. Outlet and Inlet Structures - All outlet structures shall conform to Construction Standard Details DR-9 through DR-14 inclusive.

G. Slurry Cement Backfill - Slurry cement backfill shall conform to the requirements of Section 19 of the Caltrans Standard Specifications.

H. Lined Channels - All lined channels shall conform to Construction Standard Details DR-16 and DR-17 and the following materials:

- 1. Air Blown Mortar** - Air blown mortar shall conform to provisions in Section 53 of the Caltrans Standard Specifications.
- 2. Concrete** - Concrete shall be either “Minor Concrete” with Type II cement, sacked concrete, or doweled and sacked concrete. The minimum weight of sacked concrete shall be 60 pounds per sack.
- 3. Curing Compound** - Curing Compound shall conform to provisions in Section 90-7.01B of the CalTrans Standard Specifications.
- 4. Grouted Cobbles** - Ground cobbles shall be set in six inches of “Minor Concrete” with pea gravel concrete. The top surface of the

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concrete shall be flush with adjacent finish grade. Cobbles shall be four to ten inches in size, with 1/3 exposed above the concrete surface, per Caltrans Specifications. Base for concrete shall be undisturbed native soil. If the soil is disturbed or undercut, it shall be processed to 90% relative compaction.

5. Weep Holes - All weep holes shall be 2 inches in diameter and made of: galvanized steel pipe, schedule 40 or better; PVC pipe, schedule 40 or better; or ABS pipe, schedule 40 or greater.

6. Welded Wire Fabric - Welded wire fabric to conform to ASTM Designation A 185.

I. Metal Storm Drain Marker – “No Dumping” public notices are required at all storm drain inlets within the City limits, public and private storm drain improvements. Where conditions do not warrant as defined in Detail DR-20 “Detail A” of these Design & Construction Standards, metal storm drain markers as shown on Detail DR-20 “Detail B” may be substituted as approved by the City’s Construction Inspector. “Detail B” shall be Almetek Industries Marker, “EnviroMark”, stainless matte finish SD-SP, item number SD-4, blue “No Dumping Drains to Creek” with installation methods 3,4,6,8 or 9, or approved equal may be installed per manufactures’ recommendations.

101-8A ABANDONING STORM DRAINS – In newer construction, storm drain stubs and services to be abandoned shall be either removed to the main or manhole of origin or filled solid with concrete slurry, at the discretion of the City Engineer. Abandonment of existing storm drain stubs shall be removed or left in place as directed by the Director of City’s Construction Inspector and or as shown on the approved plans.

Temporary storm drain plugs may be used when short term blockage is necessary at either the stub or lateral run to prevent storm water from entering/exiting the stub or lateral run. Material for plugs may be a combination of 6 mil plastic and rigid plywood. For longer term plugs, and at the discretion of the Construction Inspector, 6 mil plastic and one (1) foot thick of 2 sack concrete is required. In both cases, the plug shall be marked with a 4x4 temporary post.

SECTION 111

GRADING

111-1 GENERAL - Grading improvements shall include: excavation and embankment work for channels, pads and roadways, erosion control measures and retaining walls. These improvements shall be installed in accordance with the approved improvement plans, these Construction Standards, the latest edition of the California Building Code, (CBC), the City of Roseville Grading Ordinance, the SWRCB Construction General Permit No.CAS000002, (WQ ORDER No. 99-08-DWQ), The City of Roseville Stormwater Ordinance, and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the Caltrans Standard Specifications.

The City of Roseville has adopted Stormwater Quality Design Standards to reduce water pollution generated by urban runoff. These design standards are detailed in the Stormwater Quality Design Manual for the Sacramento and South Placer Regions. This Manual is available on-line at the Sacramento Stormwater Management Partnership website, www.sacramentostormwater.org/SSQP/SSQP.asp. The manual can also be purchased at the City's Permit Center located on the first floor of the Civic Center Building at 311 Vernon Street downtown Roseville.

111-2 CONSTRUCTION STAKING - Construction staking shall be provided by the Developer for all grading improvements as indicated below including adjacent to wetlands per 111-3.G: Cut sheets shall be on-site and shall be furnished to the City's Construction Inspector upon request.

A. Channels - Channel staking shall provide the station and offset, as well as the cut to the nearest tenth of a foot, 0.1 foot. Stakes shall be provided at a minimum of every 50 feet in tangent sections and every 25 feet in curved sections.

B. Erosion Control Measures - Erosion control measure shall be staked per the approved plans. Erosion control requirements shall apply to all construction sites regardless of size, which involve disturbed soil. Sites exceeding one acre of disturbed surface area are subject to the Storm Water Pollution Prevention Plan (SWPPP) requirements. Owner's SWPPP must be approved by the City prior to the commencement of grading operations.

C. Pads - Pad staking shall provide the station and offset, as well as the cut to the nearest tenth of a foot, 0.1 foot. Stakes shall be provided at each property corner, front and rear.

D. Retaining Walls - All retaining wall shall be staked for line and grade to the nearest tenth of a foot, 0.1 foot.

E. Roadways - Roadway excavation staking shall provided the station and offset, as well as the cut to the nearest tenth of a foot, 0.1 foot. Minimum staking intervals shall be 50 feet in tangent sections and 25 feet in curves. Stakes shall also be placed at curve beginnings, ends, points of reverse curvature, points of compound curves, horizontal angle points and at changes of grade.

111-3 INSTALLATION - All grading improvements shall be installed in accordance with provisions in Chapter 33 of the UBC, recommendations of site specific geotechnical reports and geotechnical engineer, provision in Sections 16 through 19 of the Caltrans Standard Specifications, the approved improvement plans and per the following specifications:

A. Channels - All fill areas in channels shall receive suitable fill material to be compacted to a minimum of 90 percent relative compaction. The Developer's geotechnical engineer will determine suitable fill material. Unsuitable materials shall be removed from the channel and replaced with suitable backfill material based on recommendations provided by a State of California licensed geotechnical engineer.

B. Erosion Control Measures - Construction sites shall have required erosion and sediment control measures in place between October 1 and April 30. All projects adjacent to creeks, wetlands, vernal pools, drainage ditches, and Stormwater drain inlets shall have adequate sediment control measures in place prior to ground disturbance regardless of time of year. If construction is in progress, the Contractor shall ensure that the construction site is prepared prior to the onset of any storm. For Stormwater quality compliance information, refer to the City's Storm Water Quality Best Management Practices (BMP) Guidance Manual for Construction Activities, latest edition. Waterways under the jurisdiction of governmental agencies other than the City of Roseville may be subject additional erosion control measures or criteria and is the responsibility of the Developer/Owner. City of Roseville erosion control provisions shall include, but are not limited to:

1. Broadcast Seed - Where required, broadcast seed shall be applied as follows:

Brando Brome	12 lbs/acre
Rose Clover	9 lbs/acre

Areas with sandy, dry soil shall receive:

Zorro Annual Fescue 6 lbs/acre

Rose Clover 9 lbs/acre

A fertilizer consisting of 16-20-0 shall be applied at a rate of 500 pounds per acre. If hydroseeding/mulching is used, seed quantities shall be increased by 30 percent.

Seed for creek banks shall conform to the latest requirements of the California Department of Fish and Wildlife.

- 2. Drainage Areas** - All bare areas, regardless of slope, within 50 feet of natural drainages and active stormwater collection systems shall be covered with straw, erosion control blankets, hydromulch, or other types of soil stabilizers suitable for elimination soil migration. A City Stormwater Inspector may require additional control measures be installed if deemed necessary.

No grading or trenching, except as required for erosion or sediment control, shall occur within 35 feet from the centerline of perennial and intermittent drainage swales between October 1 and April 30 unless approved by the Engineering Division, as well as any other governmental agency which may have additional jurisdiction and/or requirements.

3. Dust/Mud Control -

- a. Construction Access** - Where construction traffic accesses a project, on or off public streets, the contractor shall have in place prior to the start of grading, a construction access conforming the City's Stormwater Quality Best Management Practices Guidance Manual. Alternative tracking control measure will be considered provided they are equally or more effective than specified. Construction access locations shall be maintained during the course of construction.
- b. Adjacent Streets** - Adjacent street frontages shall be kept clean at all times. When tracking has occurred, the contractor must clean immediately, or as directed by the City Inspector.
- c. Construction Vehicles** - The Contractor is responsible for cleaning construction vehicles leaving the site on a daily basis to prevent dust, silt, mud and dirt from being released or tracked offsite. See the City of Roseville Stormwater Quality BMP Guidance Manual for information on vehicle and equipment cleaning requirements, and instructions concerning concrete washout areas.

- d. Grading Spoils** - Dry stock piles of soil shall be watered, covered with tarpaulins, or stabilized suitable to prevent the generation of airborne dust. Trucks transporting dry soil shall be covered with tarpaulins. Stockpiling of spoils during the wet season, (October 1 to April 30), should be avoided. If avoidable, spoil stockpiles shall be covered with plastic, or adequately stabilized by other BMP's, with a perimeter sediment barrier installed at all times. The City Stormwater Inspector may require additional control measure depending on the proximity of the stockpile to any sensitive areas and/or drainage systems.
- e. Dust Control** - Water shall be sprayed on all exposed earth surfaces during clearing, grading, earth moving and other site preparation activities. The exposed earth shall be watered throughout the day to minimize dust. Care must be taken to ensure that excessive water use doesn't create a sediment-laden discharge. Water from City hydrants is usually available to supply water, however a hydrant permit from the Environmental Utilities Department must be obtained prior to use.
- f. Wind Allowances** - Grading activities shall be restricted or halted when winds exceed 15 miles per hour as deemed necessary by the City's Construction Inspector. In addition, Placer County Air Pollution Control District may issue enforcement actions for air-borne migration violations, per their guidelines.
- 4. Drain Inlet Protection** - Drain inlet filters must be employed whenever there is risk of sediment-laden water entering the City's storm drain system. This applies to both existing and newly constructed drain inlets. If the storm drain system is active and open to discharges, then immediately following installation, all drop inlets shall be protected with silt and gravel bags until construction no longer poses a risk of sediment laden discharges. Only high flow volume bag type filter, or other devices that have been approved of the Stormwater Inspector shall be used.
- 5. Perimeter Protection** - Silt fences, and straw wattles are commonly used as perimeter sediment control BMP's. Proper installation of these is critical for their effectiveness. Refer to the City's Stormwater Quality Best Management Practices Manual, for proper installation procedure for these BMP's and for information on additional BMP's that may be available.
- 6. Slope Protection** - Disturbed exposed slopes pose the highest risk of erosion and shall be protected as required. BMP's such as blown

or broadcast straw, erosion control blankets, plastic sheeting, soil stabilizers, and linear sediment controls along the toe, face, and grade breaks of exposed slopes shall be employed to minimize or eliminate erosion. Refer to the City's Stormwater Quality Best Management Practices Manual, Temporary Soil Stabilization, for proper installation procedures.

- 7. Straw Bales** - Straw bales should strategically stockpiled on site during the "Wet Season" for the purpose of immediate broadcasting prior to storm events. Measures shall be provided to keep straw dry. Refer to the projects' SWPPP or erosion control plan for proper stockpiling of BMP's.
- 8. Alternative Control Devices** - Use of alternative sediment control devices will be approved at the discretion of the City's Stormwater Inspector.
- 9. Wildlife Friendly / Non-entrapment Materials** - Areas where permanent erosion and sediment control materials are placed, or locations adjacent to open space or other sensitive areas shall employ wildlife friendly, or non-entrapment products. (Non-entrapment products are those that use specially designed netting, biodegradable netting, or no netting at all for their blanket and waddle products, which are designed to minimize or eliminate animal entrapment). Materials shall be approved prior to placement by Development Services staff.

C. Pads - All pads shall be compacted to a minimum of 90 percent relative compaction. Unsuitable materials shall be removed from the pad areas per the recommendations of the Developer's licensed geotechnical engineer. The Developer shall submit a letter from the geotechnical engineer stating that the grading was performed in substantial conformance with the geotechnical report (and subsequent updates). Recertification of lot pad compaction/elevation certificates may be necessary due to stockpiling, rutting, sales trailers, temporary parking lots, erosion, and time lapse at the discretion of the City Construction Inspector, refer to section 21-5 E.

D. Retaining Walls -

- 1. Concrete/Masonry/Rock Walls** - All concrete, masonry, or rock walls shall be installed per the manufacturer's instructions or design engineer's recommendations.
- 2. Wood Retaining Walls** - All wood retaining walls shall be installed in accordance with Construction Standard Detail GR-3.

E. Roadways -

- 1. Compaction** - Relative compaction of not less than 95 percent shall be obtained for a minimum depth of 0.5 feet below the subgrade grading plane for the width between the outer edges of shoulder, including curb and gutter areas, whether in excavation, embankment or at original ground level. All other material shall be compacted to a relative compaction of 90 percent.
- 2. Grade Control** - When the next layer to be placed on the subgrade is an asphalt concrete pavement, asphalt concrete base or asphalt concrete subbase, the subgrade grading plane at any point shall not vary more than 0.05 foot above or below the grade established by the project surveyor.
- 3. Stability Testing** - The Contractor shall proof roll the subgrade areas with a full, 3,000 gallon water truck prior to placement of aggregate base or aggregate subbase. The City's Construction Inspector shall approve the equipment used for proof rolling.
- 4. Unsuitable Materials** - Any unsuitable material encountered within 2 feet below subgrade or 2 feet below original ground shall be removed and replaced with a suitable backfill material.

Suitable backfill materials and methods for placement are to be reviewed and approved by the on-site geotechnical engineer. Other methods for subgrade stability may be used upon review and approval of the Developer's geotechnical engineer.

- ## **F. Tree Grading**
- Grading activities within the protected zone of a Native Oak Tree or Landmark Tree shall be conducted under the conditions set forth under the Grading Permit and Tree Permit Conditions. These conditions shall also include:

- 1. Fencing** - A minimum 5-foot high chain link fence, or approved equal by the Planning Department, shall be installed at the outermost edge of the protected zone of each protected tree or group of trees. The fence shall not be removed until written authorization is received from the Planning Department.

Fences must be installed in accordance with the approved fencing plan prior to the start of any grading operations. The Contractor shall call the Planning Department for an inspection of the fencing prior to grading operations.

Signs must be installed on the fence in four locations, equidistant around the tree. On fencing around a grove of trees, the signs shall be placed at approximately 50-foot intervals. Sign verbiage is indicated in Section 111-4.B.

- 2. Grade Changes** - No grade changes are permitted which cause water to drain to within twice the longest radius of the protected zone of any protected tree.
- 3. Native Ground Surface Fabric** - Removal of any native ground surface fabric from the protected zone of the tree shall require protection of the tree within 48 hours of removal.
- 4. Preservation Devices** - Preservation devices (such as aeration systems, oak trees wells, drains, special paving and cabling systems) shall be installed per approved plans and certified by the Developers arborist.
- 5. Retaining Walls** - The Contractor shall provide immediate protection against moisture lost to exposed roots due to construction of a retaining wall within the protected zone of the tree. The retaining wall shall be constructed within 72 hours after completion of grading in the protected zone.
- 6. Roots** -
 - a. Minor roots** - Minor roots (less than 1 inch in diameter) may be cut. Damaged roots shall be traced back and cleanly cut behind any split, cracked or damaged area.
 - b. Major roots** - Major roots (over 1 inch in diameter) may not be cut without approval and supervision of the Developer's arborist.
- 7. Trenching** - Trenching within the protected zone of a tree, when permitted, may only be conducted with hand tools, in order to avoid root damage. The Contractor shall follow provisions approved in the Utility Trenching Pathway Plan, submitted by the Developer to the Planning Department.
- G. Grading Adjacent to Wetlands** - Grading activities adjacent to sensitive wetland or creek areas shall be conducted under the conditions set forth under the Grading Permit. These conditions shall also include:

1. Prior to construction within any phase of the project, high visibility temporary construction fencing shall be installed along the parcel adjacent to the Preserve or Creek. Fencing shall be maintained daily until permanent fencing is installed, at which time the temporary fencing shall be removed from the project site.
2. With the exception of access required for maintenance and/or emergency vehicles, the project shall be designed to prevent vehicle access into the Preserve. Post and cable fencing or other improvements shall be utilized to meet this requirement.
3. Landscaping adjacent to the Preserve shall be California native, drought-tolerant groundcover, shrubs, plants and trees.
4. The Pre-Construction meeting shall address the presence of the Preserve, the sensitive habitats present and minimization of disturbance to the Preserve. During grading and construction the preserve area shall be avoided and shall not be used for parking, storage, or project staging. The contractor shall remove all trash blown into the preserve from adjacent construction on a daily basis. After construction is complete, the temporary fencing shall be removed from the preserve, along with all temporary erosion control measures.

111-4 MATERIALS

A. Retaining Walls -

1. **Concrete/Masonry/Rock Walls** - All concrete, masonry, or rock walls shall conform to materials and specifications provided by the wall manufacturer or designing engineer.
2. **Wood Retaining Walls** - All wood retaining wall materials are to be in accordance with Construction Standard Detail GR-1.

B. Tree Fencing -

1. **Signs** - The size of each sign shall be a minimum of 2 feet by 2 feet and shall contain the following language.

WARNING
THIS FENCE SHALL NOT BE REMOVED
OR RELOCATED WITHOUT WRITTEN
AUTHORIZATION FROM THE
PLANNING DEPARTMENT

C. Wetland Preserve Fencing -

- 1. Signs** - The size of each sign shall be a minimum of 2 feet by 2 feet and shall contain the following language:

WARNING
THIS FENCE SHALL NOT BE REMOVED
OR RELOCATED WITHOUT WRITTEN
AUTHORIZATION FROM THE
COMMUNITY DEVELOPMENT DEPARTMENT

111-5 SOIL TESTING PROCEDURES AND FREQUENCIES

A. Field Testing -

- 1. Field Density Testing** - Field density test for earthwork and backfill will be performed by either the owner's Independent Testing Laboratory (ITL), or the City's Geotechnical Engineering Consultant, at the discretion of the City Engineer as follows:
 - a.** Private property building areas including 10'-0" outside the exterior building lines shall be tested by the property owner's Geotechnical Engineer with proper written pad certifications submitted to City Building Official prior to foundation placement.
 - b.** Public Right-of-Way - All grading operations, which involve revision to existing contours for the purpose of accepting right-of-way improvements, shall require written and stamped certification from a licensed California Geotechnical Engineer.
 - c.** Test Method-In-place nuclear density, ASTM D2922 (Method B-Direct Transmission) to check conformance to requirements of Geotechnical Report, project plans, specifications, and Section 71 of these Standards. In addition to testing, the field technicians shall observe ALL backfill operations to ensure methods consistent with those that achieved minimum required compaction results are used throughout the backfill process. The field technician shall record these observations in the Daily Field Reports (DFR's). The field technician shall perform additional testing when the operations deviate from proven practices even if testing at the frequencies required below has already been performed. Samples for compaction curves shall be taken at the discretion of the technician or as directed by the City's field representative.

- d. The City expects testing at a higher frequency at the discretion of the field technician or City's Construction Inspector if there is any reason to doubt the effectiveness of the operations or the precision of the test results, and when a material change is observed in the soil being compacted. These tests shall be recorded in the DFR.

B. Minimum Reporting Requirements -

1. **Daily Field Reports (DRF)** - All testing and observations shall be recorded in a DFR. The DFR shall include all field density testing; test tables and/or plans shall show the field-recorded dry density, moisture content, reference laboratory compaction test used and any moisture offset used based on supplemental laboratory testing. All test results indicating less than minimum compaction shall be recorded in the DFR's along with the observation of corrective operations and retest results. DFR's shall also indicate where observation and soil probing was performed in between nuclear gauge testing.

C. Mass Grading Testing Frequencies -

1. Large Area Density Testing – One test per 1,000 to 2,000 cubic yards. A separate compaction certification report is required for City right-of-way limits.
2. Small Area Density Testing – One test per 500 cubic yards or each 10,000 square feet of fill.

D. Trench Backfill Testing Frequencies -

1. Utility Installations - Observe all bedding, shading, shovel slicing, and filter fabric installation procedures for compliance with City Standards and project plans and specifications. Observations shall be documented in DFR's along with measures taken to correct noncompliant items.
2. Compaction Testing - By Nuclear Gauge Method -Tests shall be taken at a minimum frequency of one test per lift per 200 lineal foot of backfill, testing pattern should be staggered such that the location of test varies with each lift of backfill. The maximum loose lift thickness shall conform to the requirements outlined in Section 31-2E, Typical Compaction Equipment and Maximum Lift Depths Achieved by Proper Compaction, of these Standards, or as approved

by the City Engineer. The ITL shall submit copies of the field technician's DFR's and testing logs on a weekly basis to the City's Construction Inspector for review.

3. Performance Specification Observation - (Deep Trenches or Rocky Material), Performance specifications shall be used to verify compaction efforts where vertical cuts or other issues prevent safe entry for nuclear gage density testing. A series of tests will be performed at the beginning of the backfill operations in a protected area of the trench to determine the minimum number of passes, acceptable equipment, moisture conditions, and maximum loose lift thickness. Once the procedure is approved, full-time observation will be performed to check that operations comply with the approved performance specifications. The field technician shall require the contractor to provide access for further testing by the field technician if, in the opinion of the City's Construction Inspector, conditions change such that observation alone will not suffice to verify compliance or if the material or equipment used to backfill the trench changes such that re-evaluation or compaction procedures is required. Adequate compaction of material containing more than 30 percent rock larger than $\frac{3}{4}$ inch shall be verified via performance specifications. The ITL shall develop the performance specification and, if none exists, perform full-time observation of the operations to verify compliance. Field observations shall be recorded in the field technician's DFR's as described above. The DFR shall clearly reference approximate stations and elevations over which the observation of performance specification was performed.
4. Dry Utility Trenches - Installation of Electric Department facilities shall be according to Electric Department designed job print and City of Roseville Electric Department Specifications, Details: Residential 1.2, 1.2.1; Commercial 3.1, 3.2. Frequencies of testing to coincide with these Standards.
5. Manholes -Areas around manholes shall be tested every vertical foot. Testing methods and recordings shall be as described above.
6. Utility Services to Residences - Test at least every other lift on a minimum of 50 percent of the services.
7. Retrofit Utilities - See Section 31 of these Construction Standards.

SECTION 141

RECYCLED WATER SYSTEM CONSTRUCTION

141-1 GENERAL- On-site and public recycled water pipe, fittings, gate valves, fire hydrants, blow-offs and other appurtenances shall concur with the current Environmental Utilities Department list of approved materials, provided herein, and shall be installed in accordance with the requirements of the American Water Works Association (AWWA) Standards, these Construction Standards, and as recommended by the manufacturer. These Construction Standards and manufacturer's guidelines shall be present at the construction site at all times.

141-2 CONNECTION TO EXISTING FACILITIES- Connection to existing recycled water facilities may be made upon approval of the Environmental Utilities Department.

A. The Environmental Utilities Department has the option of making a system tap as required on the approved plans. Should the Environmental Utilities Department elect to perform the tap, the Contractor shall pay for such work on a time and materials reimbursement basis. The Contractor shall be responsible for the following tasks associated with the tap, or as determined by the Environmental Utilities Department:

1. Coordinating the work requested with the Environmental Utilities Department and the Environmental Utilities Department Inspector. This shall include discussions on provisions for materials and equipment required to complete the work.
2. Providing traffic control per the City's Public Works Department requirements.
3. Excavating the work area, as agreed upon by the Environmental Utilities Department Inspector.
4. Providing sheeting, shoring, and bracing as required.
5. Providing lighting as required if the tap is to be performed at night.
6. Backfilling, compacting, and pavement restoration of the excavation(s) upon tap completion.

B. The Contractor shall tie-in the new system to an existing stub under the following conditions:

1. With specific approval of the Environmental Utilities Department Inspector.
2. Care shall be taken to provide a clean, sanitary tie-in site.
3. Dewatering of both the new and existing recycled water mains shall take place in a way as to prevent contamination by trench water.
4. All material used in the tie-in shall be clean and swabbed with chlorine.
5. All tie-ins shall take place in the presence of the Environmental Utilities Department Inspector.
6. Tie-ins may take place after the newly constructed recycled water system has successfully passed all required testing procedures as established in Section 141-13 of these Construction Standards and as determined by the Environmental Utilities Department Inspector.
7. Under no circumstances shall anyone other than a representative of the Environmental Utilities Department open or close valves in a City-operated system.

141-3 CONSTRUCTION STAKING- The recycled water shall be staked prior to excavation. Staking shall provide the station and offset to the recycled water main, as well as a cut to the nearest one-tenth of a foot (0.1'). Stakes shall be provided at a minimum of every 50 feet in tangent sections and every 25 feet in curved sections and every 10 feet in approved vertical curve sections.

141-4 EARTHWORK- Earthwork required to construct recycled water facilities and appurtenances shall be performed to the lines and grades shown on the approved project plans and as specified below:

- A. Excavations-** Pipeline excavations shall be open-cut trenches, unless otherwise specified on the approved improvement plans, with vertical sides to the pipe crown as specified on Construction Standard Detail W-1. Excavations shall conform to all applicable Federal and State safety requirements. The contractor shall appoint a designated "competent person" during construction.
- B. Trench Width-**The trench bottom width to 6 inches above top of the pipe shall comply with Construction Standard Detail W-1 or as approved by the Environmental Utilities Department.

C. Compaction- Compaction of the trench shall conform to Construction Standard Detail W-1. Compaction test results shall be supplied to the Environmental Utilities Department upon request.

Jetting of trenches is not allowed.

D. Weather-During inclement weather, trenches shall be excavated only as far as pipe can be laid and backfilled during the course of the day.

E. Existing Roadways- Trenching in existing roadways shall be limited to the length of pipe that can be laid that day. No open trenches shall be left overnight. Exposed trenches shall be planted or backfilled as approved by the Environmental Utilities Department Inspector and the Development Services Department.

F. Excess Material- Excess material and materials determined unsuitable for backfill by the Environmental Utilities Department Inspector shall be removed from the project site.

141-5 DEWATERING- Dewatering for the installation of structures and pipelines shall commence when groundwater is first encountered and shall be continuous until the excavation is backfilled. Best Management Practices including, but not limited to, scouring and erosion measures shall be used to eliminate sediment-laden discharges in accordance with the approved SWPPP.

141-6 PIPE BEDDING-The gradation of allowable backfill material is as shown on the Construction Standard Detail W-1. Pipe bedding shall be installed as follows:

A. Bedding shall provide uniform and continuous support along the barrel of the pipe. The minimum depth of bedding material shall be provided under the bell. Blocking of the pipe is not permitted.

B. Loose material shall be removed from the trench bottom and replaced with imported material.

C. Where rocky unyielding, or unsuitable foundation material is encountered, the subgrade shall be excavated a minimum of 12 inches below the pipe and the trench width shall be increased a minimum of 12 inches. The over-excavation shall be replaced with imported material. DIP may be used as an alternative to the over-excavation requirements.

D. Where the trench bottom is soft, yielding or unstable, the trench bottom shall be over-excavated. Three-quarter inch crushed rock shall be placed in the trench to provide a stable foundation. The rock is in addition to the required pipe bedding used in the pipe zone.

- E.** Bell holes shall be excavated per manufacturer's recommendations. The minimum depth of bedding material shall be provided under the bell. Care shall be taken that the bell hole is no larger than necessary to accomplish proper joint assembly.

141-7 CONCRETE CRADLES, ARCHES & ENCASEMENTS and TRENCH DAMS - Concrete cradles, arches and encasements shall conform to Construction Standard Details W-23 and 24 and the following:

- A.** The pipe shall be placed in proper position on temporary cradles or arches consisting of concrete block or bricks. When necessary, the pipe shall be rigidly anchored or weighted to prevent flotation when the concrete is placed.
- B.** Cradles and arches shall be constructed with an ability to adjust the pipe to proper grade in order to avoid vertical joint pull. Cradles and arches shall be placed at one-third and half-way points along each pipe segment where specified. Concrete placed beneath the pipe shall be sufficiently workable to fill the voids without excessive vibration. The concrete shall be allowed to cure and remain undisturbed for a minimum of 24 hours prior to backfill and compaction of the trench.
- C.** Restrained pipe within casings, bridges, shall be fully extended or "stretched out" to remove the slack between the joints the entire length of the structure.
- D.** Water shall not be permitted to enter, seep or run onto the concrete while curing.
- E.** Trench dams shall be constructed of controlled density fill or clay as shown on the drawings or as directed by the Environmental Utilities Department inspector. Trench dam excavations shall be made into native earthen materials to the dimensions shown on the drawings or as directed by the Environmental Utilities Department inspector. Clay materials shall be moisture conditioned to near-optimum moisture content prior to placement in the excavation and compacted to the required relative compaction.

141-8 PIPE ZONE BACKFILL- Pipe zone backfill shall conform to Construction Standard Detail W-1 and the following:

- A.** Extreme care shall be taken when consolidating the backfill around the pipe zone. For pipe 12 inches in diameter and smaller, no more than one-half of the pipe shall be covered prior to shovel slicing the haunches of the pipe. For pipe greater than 12 inches in diameter, no more than the lesser of 6 inches or one-third the pipe diameter shall be covered prior

to shovel slicing. Sufficient care shall be taken to prevent movement of the pipe and damage to the polyethylene encasement during shovel slicing. Shovel slicing shall be witnessed by the Environmental Utilities Department Inspector prior to shading the pipe.

- B.** Compaction equipment shall not make direct contact with the pipe.
- C.** Where the pipe is to be installed below historic groundwater levels or where the trench is subject to inundation, crushed rock material shall be placed to the crown of the pipe.

141-9 PIPE INSTALLATION – Recycled water pipe shall be installed in accordance with Section 81-9 of these Construction Standards and the following provisions:

- A.** The Contractor shall keep the pipe interior free from foreign materials and in a clean and sanitary condition until acceptance by the City. At times when pipe-laying is not in progress, the open pipe end shall be sealed with a tight cap or plug to prevent foreign matter from entering the pipe. Provisions shall apply to the noon-hour as well as overnight.
- B.** Trenches shall be in a reasonably dry condition when pipe is laid.
- C.** Care shall be taken when lowering pipe into the trench to protect the pipe from damage. Chains are not permitted. The pipe shall be laid carefully to the lines and grades shown without grade breaks, unless designed with such, or to minimum depths shown on the approved plans. If field conditions exist such that the pipe may not be laid to the specified grade, the approved plans will require revisions prior to proceeding with construction.
- D.** Pipe sections shall be closely jointed to form a smooth flow line. Care shall be taken in placing the pipe and making field joints.
- E.** No facility is to be backfilled without inspection by the Environmental Utilities Department. Improvements installed without proper inspection shall be exposed and inspected as required by the Environmental Utilities Department inspector.
- F.** All installations shall follow manufacturer's recommendations unless otherwise noted on the approved plans. The manufacturer's installation guide shall be on the job site at all times.
- G.** Pipes shall be mechanically restrained to the length specified in the approved plans, using materials specified herein. Thrust blocks shall only be used where specifically shown on the plan/profile sheets and/or the standard detail sheets. All fittings and appurtenances shall maintain

a minimum of 18 feet of restrained pipe into the fitting from all directions.

H. A continuous number 12 insulated tracing wire shall be attached to mains, service lines and appurtenances per the Construction Standard Details and as follows:

1. Tracing wire shall also be continuous between main line valve boxes and fire hydrants. It shall be attached to the top of the pipe with 10-mil vinyl tape every 5 feet.
2. Tracing wires through valve boxes shall be placed outside of riser, but inside the box.
3. Tracing wire in manholes and vaults shall be attached inside the facility within one foot of the rim.
4. Wire splices shall be located above ground and inside of valve boxes and conform to Details W-16, W-17, and as follows:
 - 4a. Twist the wire together with a minimum of 5 twists.
 - 4b. Install a copper split bolt connector on the splice.
 - 4c. Solder all Connections
 - 4d. Cover the splice with mastic tape and wrap with vinyl tape.

I. A 12-inch wide plastic backfill tape with black printing on a purple field having the words “RECYCLED WATER PIPELINE BELOW” shall be installed above all mains. Tape is to be buried 12 to 24 inches below finished grade.

J. Pipe Identification – All buried recycled water piping shall be purple-colored (Pantone 522) PVC with stenciling identifying it as recycled water in accordance with the AWWA manual, Guidelines for the Distribution of Non-Potable Water. The pipe shall be installed with the manufacturing label on top. Markings shall be as specified in Section 141-16 of these Construction Standards, and as modified herein:

1. Alternate pipe with warning tape, as specified below, will be accepted as an alternative to stenciled purple-colored PVC pipe only on a project-by-project basis, with prior written approval from the Environmental Utilities Department.
2. The plastic warning tape shall be prepared with black printing on a purple field, having the words “CAUTION: RECYCLED WATER PIPELINE.” The overall width of the tape shall be 3 inches.

The warning tape shall be installed directly on top to the pipe, longitudinally and centered. The warning tape shall be installed continuous for the entire length of the pipe and shall be fastened to each pipe length by plastic tape banded around the pipe with fasteners no more than 5 feet apart. Taping attached to the section of the pipe before laying in the trench shall have flaps sufficient for continuous coverage. All risers between the main line and control valves shall be installed with warning tape.

K. Mains in unpaved areas shall be marked every 150 lineal feet with a purple composite utility marker, 5-feet 6-inches tall, having a decal stating: "CAUTION: RECYCLED WATER PIPELINE." Appurtenances (valves, ARVs, test stations, etc.) and angle points shall also be marked. Mains in landscaped areas shall be delineated with a brass marker set in an 8-inch diameter concrete cylinder 4 inches above finish grade. The brass marker shall state "City of Roseville Recycled Water Main."

L. All underground metal (ductile iron, valves, fittings, copper, brass, etc.) shall be wrapped in 8-mil minimum thickness polyethylene encasement.

M. Polyvinyl Chloride (PVC) Pressure Pipe Installation – PVC shall be installed in accordance with the AWWA Manual M23 and the manufacturer's recommendations, except as otherwise provided herein:

1. PVC Pipe shall have been manufactured with the 18-month period prior to installation.
2. Pipe and gaskets shall be kept clean and protected against sunlight and heat damage.
3. Pipe showing signs of physical damage or excessive ultraviolet exposure will be rejected, and immediately removed from the job site.
4. The pipe shall be installed with the manufacturing label on top.
5. The reference mark or stab line on the spigot end must be flush with the bell end and visible for inspection.
6. The beveled end of the pipe shall be cut off before placement in a mechanical joint.
7. Minimum length of pipe for installation shall be 5 feet.

N. Concrete Cylinder Pipe – Concrete cylinder pipe shall be installed in accordance with the manufacturer's recommendations, and in accordance with the following provisions:

1. A 3-inch wide plastic warning tape with black printing on a purple field with the words: "CAUTION: RECYCLED WATER PIPELINE" shall be installed longitudinally, and centered directly on top of the pipe. The warning tape shall be installed continuous for the entire length of the pipe and shall be fastened to each pipe length by plastic tape banded around the pipe with fasteners no more than 5 feet apart. Taping attached to the sections of pipe before laying in the trench shall have flaps sufficient for continuous coverage.

O. Ductile Iron Pipe (DIP) – DIP shall be installed in accordance with Section 81-9 of these Construction Standards. Warning tape shall be applied as specified in Section 141-9.N.1above.

P. Borings – Borings for installation of recycled water lines shall be in accordance with Section 81-9 of these Construction Standards. Utilizing the City's drainage system for residual discharge from boring operations without the required measures is prohibited. This discharge is a violation of the City's Stormwater Ordinance and the Clean Water Act. Discharge fluid shall be recovered, contained and discarded at an appropriate location, or if the situation allows, fluid may be discharged into an open area with the pre-written approval of the property owner and approval from the Regional Water Quality Control Board (RWQCB) provided it meets RWQCB requirements and does not impact sensitive areas such as wetlands, creeks or other natural water conveyances

All street boring shall include adequate measures to mitigate sediment-laden water discharge. An acceptable measure is pumping the discharge fluid into a tanker and hauling it away. Other measures suggested by the Contractor will be considered by the City. The City stormwater or construction inspector shall inspect and monitor the discharge recovery, containment, and restoration process.

141-10 SERVICE INSTALLATION – Recycled water services shall be installed in accordance with manufacturer's recommendations, per Section 81-10 of these Construction Standards, per the Construction Standard Details and with the following provisions:

- A.** Services shall be continuous from the main line to the service box. Bends in copper tubing shall be made in a manner that does not crimp or flatten the tubing.
- B.** Taps, service saddles and fittings attached to mains shall be separated from each other by a minimum of 24 inches.

- C.** Service saddles shall be wrapped and sealed in 8-mil minimum thickness polyethylene and backfilled with sand. Use pipe tape to secure and seal the polyethylene wrap.
- D.** Service lines shall be encased in 8-mil minimum thickness poly tubing and backfilled with sand. Use pipe tape to secure and seal the polyethylene wrap.
- E.** Recycled water identification shall be installed on service lines as provided for in these Construction Standards.
- F.** Service manifolds shall be constructed per the following criteria:
 - 1.** Where a service line is extended a distance greater than 40 feet, a construction jumper shall be installed per Construction Standard Detail W-15. The new service line and manifold shall be tested in accordance with Section 81-13 of these Construction Standards.

Where a service line is extended a distance less than 40 feet, the extension shall be cleaned, swabbed with chlorine and flushed in the presence of the Environmental Utilities Department inspector. The new service line and manifold shall be pressure-tested in accordance with Section 81-13 of these Construction Standards.

In both cases, the installation shall be fully restrained by an approved restraint system, starting at the main and as required by the approved Improvement plans.

- 2.** No water shall be drawn through a service prior to installation of the water meter and testing of the backflow assembly.

G. Meter installation and address

When location of meter is absolutely certain, Contractor shall call Environmental Utilities Mapping Division (916) 774-5553 to get an address for meter location. This shall be prior to payment of recycled water meter by developer/contractor.

- H.** Mow strip shall be used to separate potable and non-potable landscaping.

141-11 APPURTENANCES INSTALLATION – Appurtenances, including blow-offs, sample stations, air release valves, booster pump stations and meters shall be installed in accordance with manufacturer's recommendations, Construction Standard Details and with the following provisions:

- A.** All valves, fittings, DIP, copper and underground brass shall be wrapped and sealed in 8-mil minimum thickness polyethylene encasement. Use vinyl pipe wrap tape to secure and seal the polyethylene. Damaged or scratched surfaces on epoxy-coated valves and appurtenances may be repaired with an epoxy kit per manufacturer's recommendations and to the satisfaction of the Environmental Utilities Department inspector prior to wrapping. Otherwise, the damaged valve shall be replaced with a new valve.
- B.** Gate valves shall be centered in a one-piece riser stock. Operator nuts deeper than 40" from finished grade shall require a continuous valve nut extension to within 24" of finished grade. Extension shall conform to section 81-16.
- C.** Buried nuts and bolts shall be coated with a bituminous coating. This includes exposed bolts found on a manufactured appurtenance (i.e., valve bonnets, etc.). "T" bolt heads do not require coating.
- D.** Dead-end lines, permanent and temporary, shall have a blow-off constructed per these Construction Standards.
- E.** All appurtenances shall be marked with warning tags, signs and/or purple paint as indicated on the approved plans.
- F.** Insulating kits shall be installed at any transition between dissimilar metal pipes per the Construction Details and as required by the Environmental Utilities Department.

141-12 ON-SITE RECYCLED WATER FACILITIES – Private, on-site recycled water systems shall conform to additional specifications as described herein:

- A. Inspections** – If the on-site system is installed prior to plan approval and/or inspection, any and all portions of the systems shall be exposed, inspected and corrected as directed by the Environmental Utilities Department inspector. Failure to comply will result in termination of service. Plan changes or field modifications shall be reviewed and approved by the Environmental Utilities Department prior to installation.
- B. Coverage Test for On-site Irrigation Systems** – The Owner/Developer shall be responsible for controlling overspray and run-off on new systems or systems requesting conversion. To ensure that overspray or run-off is in accordance with the Department of Health Services regulations, inspection by the Environmental Utilities Department is required. The Environmental Utilities Department is to be contacted at (916) 774-5750 for a coverage inspection test upon

completion of the landscaping improvements involving use of recycled water.

The Owner/Developer or representative shall attend the coverage test and shall have someone attend capable of making minor adjustments to the sprinkling system. All modifications and costs are the responsibility of the Owner/Developer.

The Owner/Developer will be notified in writing of modifications to the system which could not be made during the coverage test. Such modifications shall be made in a timely manner. Failure to make timely modifications will result in termination of service.

C. Controller Charts – Controller charts shall be prepared by the Owner/Developer, approved by the Environmental Utilities Department, and then placed in the controllers prior to start of service. Failure to provide controller charts, or removal of charts from the controller will result in termination of service. Controller charts shall be prepared as set forth herein:

1. Provide one controller chart for each automatic controller, showing the area covered by the controller. The chart shall be the maximum size the controller door will physically allow.
2. The chart shall be a reduced size drawing of the actual as-built system. The line weights and lettering on the original controller chart drawing shall be drawn so that the reduced chart is clearly legible.
3. The chart shall be a black line print, with a different color used to show the area of coverage provided by the controller.
4. When completed and approved, the charts shall be hermetically sealed between two pieces of plastic, each plastic piece being a minimum of 10 mils thick.

D. Conversion From a Potable System to Recycled Water Supply - The facilities to be converted shall be investigated in detail, including review of any record drawings, preparation of required reports, findings and determinations by the Environmental Utilities Department of measures necessary to bring the system into full compliance with these Construction Standards. The Owner/Developer shall pay all costs associated with converting the system.

E. Conversion From a Recycled Water System to Potable Water Supply – If it becomes necessary to convert from a recycled water system to a potable water system, it shall be the responsibility of the

Owner/Developer to pay all costs associated with the conversion, including, but not limited to, the following items:

1. **Isolation of the Recycled Water Supply** – Service shall be removed and plugged at the main, or abandoned in a manner approved by the Environmental Utilities Department.
2. Installation of approved backflow devices on all meter connections.
3. Removal of recycled water quick couplers and replacement with approved potable water quick couplers.
4. Notification to all personnel involved.
5. Removal of all above ground warning labels.
6. Installation of potable water lines, as necessary. Potable water connection fees shall be paid prior to installation.
7. Any previously paid recycled water connection fees will not be credited toward potable water connection fees.
8. Water quality testing as specified in these standards.
9. Any other provisions necessary to meet City Water System Design and Construction Standards, as deemed necessary by the Environmental Utilities Department Director.
10. Preparation of required reports.

F. On-site Pipe Identification – All buried on-site recycled water piping shall be purple-colored (Pantone 522) PVC with stenciling identifying it as recycled water in accordance with the AWWA manual, Guidelines for the Distribution of Non-Potable Water. The pipe shall be installed with the manufacturing label on top. Markings shall be as specified in Section 141-9 of these Construction Standards, and as modified herein:

1. Alternate pipe with warning tape, as specified below, will be accepted as an alternative to stenciled purple-colored PVC pipe only on a project-by-project basis, with prior written approval from the Environmental Utilities Department.
2. The plastic warning tape shall be prepared with black printing on a purple field, having the words “CAUTION: RECYCLED WATER PIPELINE.” The overall width of the tape shall be 3 inches.

The warning tape shall be installed directly on top of the pipe, longitudinally and centered. The warning tape shall be installed continuous for the entire length of the pipe and shall be fastened to each pipe length by plastic tape banded around the pipe with fasteners no more than 5 feet apart. Taping attached to the sections of the pipe before laying in the trench shall have flaps sufficient for continuous coverage. All risers between the main line and control valves shall be installed with warning tape.

G. Quick Coupling Valves – Quick coupling valves shall conform to the following:

- 1. Recycled Water** – Quick coupling valves used for recycled water systems shall be constructed of brass with a purple rubber or vinyl cover and shall have a $\frac{3}{4}$ -inch or 1-inch inlet.

1a The cover shall be of a locking type and shall have a warning label, permanently stamped or molded into the cover, stating:

i. “RECYCLED WATER”

ii. “DO NOT DRINK” in English and Spanish

- 2. Potable Water** – Quick coupling valves used in potable water systems shall have a cover made of brass, metal or yellow rubber or vinyl. Quick coupling valves intended for recycled water use shall not be used on potable water systems.

H. Sprinklers – All sprinklers used for on-site recycled water systems shall have an exposed surface colored purple. The exposed surface shall be colored purple through the use of dyed plastic. The exposed surface shall also display either a molded or hot stamped warning, stating “DO NOT DRINK” in English and Spanish along with an international warning symbol cautioning against drinking the water emitted through the sprinkler or an identification tag conforming to these Construction Standards.

Sprinkler risers and swing joints shall be identified with purple adhesive 3” x 3” labels. Each label shall state “Recycled Water – Do Not Drink” in English and Spanish.

- I. Warning Labels** – Controller panels, wash down or blow-off fire hydrants on water trucks and temporary construction services may require installation of warning labels, as directed by the Environmental Utilities Department Director. The labels shall state “Recycled Water – Do Not Drink” in English and Spanish.

J. Valve Boxes and Tags

1. Valve Boxes – Valve boxes shall meet the following requirement:

1a. All gate valves, manual control valves, electrical control valves, and pressures relief valves for on-site recycled water systems shall be installed below grade in a purple valve box with a lid identifying use of recycled water.

1b. Electrical and manual control valve boxes shall have a warning label permanently molded into or affixed onto the lid with rivets or bolts. Warning labels shall be constructed of a purple weatherproof material with the warning permanently stamped or molded into the label. The warning shall contain the following information:

- i.** “RECYCLED WATER”
- ii.** ”DO NOT DRINK” in English and Spanish

2. Valve Tags – All recycled water sprinkler control valves shall be tagged with identification tags conforming to the following:

2a. Tags shall be weatherproof plastic, 3 inches by 4 inches, purple background with permanent black lettering, stating “RECYCLED WATER – DO NOT DRINK” imprinted on one side and “AVISA – AGUA RECICLADA – NO BEBER” on the other side.

2b. One tag shall be attached to each valve as follows:

- i.** Attach to valve stem directly or with plastic tie wrap, or;
- ii.** Attach to solenoid wire directly or with plastic tie wrap, or;
- iii.** Attach to valve cover with existing valve cover bolt.

K. Strainers – Strainers shall be installed as follows:

- 1.** Sprinkler irrigation systems shall have a “Y” or basket strainer located upstream of the meter. The strainer shall have a 30-mesh or finer screen. Strainers that have automatic backwash features will not be normally allowed unless it can be demonstrated to the Environmental Utilities Department that the backwash water will not cause run-off and is disposed of in a manner approved by the Environmental Utilities Department. The strainer drain valve shall operate with a recessed key slot.

2. All strainers shall be installed below grade in a rectangular box of sufficient size to easily allow repair or replacement of the unit(s). Box shall be permanently marked "RECYCLED WATER – DO NOT DRINK."

L. On-site Recycled Water Piping – All on-site recycled water piping shall be installed in accordance with the Uniform Plumbing Code and all other local governing codes, rules and regulations. Recycled water piping under paved or concreted areas shall be installed within a marked C900 sleeve as approved by the Environmental Utilities Director. All piping shall be continuously and permanently marked with the manufacturer's name or trademark, nominal size and schedule or class indicating the pressure rating.

1. **Minimum Requirements of Piping and Fittings** – The minimum class or schedule of piping and fittings shall be as follows:

1a. Cast-iron fittings for A.C. P.: ANSI 21.10 and AWWA C110.

1b. Galvanized steel: Schedule 40, mild steel screwed pipe.

1c. Galvanized malleable iron fittings: ANSI B-16.3.1

1d. Hard drawn copper Type K: ANSI H-26.1 and ASTM B 88.

1e. Wrought copper or bronze solder fittings: ANSI B.16.22

1f. All PVC constant pressure pipe shall be as follows:

i. Schedule 40 for lines 2-1/2" inches in diameter and smaller.

ii. Class 160 rubber-gasketed pipe for lines 3 inches and larger.

iii. C905 Class 165 for 16-inch pipe.

iv. DIP or CCP for pipe larger than 16 inches.

1g. PVC intermittent pressure lateral line piping: Schedule 40 or Class 200.

1h. PVC fittings: PVC Schedule 40 solvent weld and factory-manufactured, or Schedule 40 with rubber-ring joint. PVC schedule 80 solvent weld and factory-manufactured, or schedule 80 with rubber-ring joint.

1i. Tubing for drip irrigation systems: Manufactured from virgin polyethylene conforming to ASTM D 1248, Type II, Class C.

1j. Ductile-iron mortar lined fittings: Class 250 AWWA C110.

2. PVC Piping – PVC pipe fittings shall conform to the following:

2a. PVC plastic pipe and fittings shall be installed below grade.

2b. All PVC pipe shall be made from NSF-approved Type I, Grade I compound conforming to ASTM D 1784.

2c. All PVC Schedule 40 and Schedule 80 pipe shall be manufactured conforming to ASTM D 1785 and D 2466 and shall meet requirements set forth in Federal Specifications PS-21.

2d. All PVC Class 200 solvent weld and Ring-Tite pipe shall be manufactured conforming to ASTM D 2241 and meet requirements set forth in Federal Specification PS-22 with Standard Dimension Ratio (S.D.R.) for pressure rated pipe. Pipe shall be extruded from approved Class 12454-PVC with resin specifications conforming to ASTM D 1784 and rubber rings conforming to ASTM D 169.

2e. All PVC C900 and C905 shall be manufactured conforming to ASTM D 2241. Pipe shall be extruded from approved Class 12454 PVC with resin specifications conforming to ASTM 1784 and rubber rings manufactured conforming to ASTM F477.

2f. All pipe shall be homogeneous throughout, free from visible cracks, holes or foreign materials.

The pipe shall be free from blisters, dents, wrinkles, ripples, die and heat marks. All piping shall be manufactured per NSF specifications.

2g. All PVC plastic pipe fittings shall be rigid PVC virgin Type I, minimum Schedule 40, with working pressure no lower than that of the pipe. Sockets shall be tapered to conform to the outside diameter of the pipe, as recommended by the pipe manufacturer. All Schedule 40 fittings shall conform to ASTM D 2466. Schedule 80 fittings shall conform to ASTM D 2464 and D 2467.

2h. All fittings shall be injection-molded of an improved PVC fitting compound featuring high tensile strength, high chemical resistance and high strength. The compound must meet the requirements described in ASTM D 1784 and D 2466, cell classification 13454B. Where threads are required for plastic

fittings, they shall also be injection molded. All tees and ells shall be side gated.

2i. PVC solvent cement shall conform to ASTM D 2564.

2j. Class 160 pipe and gasket shall conform to ASTM D 1784, D2241, and D1869

M. On-site Potable Water Piping – All potable water piping installed within the same project limits as the on-site recycled water piping shall be installed in accordance with the Uniform Plumbing Code and all other local governing codes, rules and regulations, and shall also conform to the following provisions:

1. The pipe shall be continuously and permanently marked with the manufacturer's name or trademark, nominal size and schedule or class indicating the pressure rating.
2. All potable water piping shall have a blue plastic tape identifying it as a potable water line. Potable water warning tape shall be a minimum of 3 inches wide and shall run continuously for the entire length of each line. The tape shall be attached to the top of the pipe with nylon tie-wrap banded around the warning tape and the pipe every 5 feet on center. Warning tape for the potable water piping shall be blue in color with the words "CAUTION: POTABLE WATER LINE" imprinted in minimum 1-inch high, black letters. Imprinting shall be continuous and permanent.

141-13 TESTING PROCEDURES – Recycled water facilities testing shall be performed once joint utility crossings, sewer pressure test and TV inspection and subgrade is made and in accordance with Section 81-13 of these Construction Standards, and as provided herein:

A. Public System (Offsite) – Tests and procedures for recycled water systems to be accepted and maintained by the City shall consist of the following:

1. **Pressure Test** – Shall conform to Section 81-13 of these Construction Standards.
2. **Chlorine Disinfection** – Shall conform to Section 81-13 of these Construction Standards.
3. **Water Quality Testing** – Shall conform to Section 81-13 of these Construction Standards.

4. **Cross-Connection Testing** – Testing for cross-connection shall be in accordance with the California Plumbing Code, Chapter 16 part II, and the following requirements prior to acceptance and use. All potable and recycled water valves shall be in the open position prior to testing. During the potable water system pressure testing process, the recycled water system shall be depressurized to atmospheric pressure. Once the potable water system has passed the pressure test, it shall be depressurized to atmospheric pressure. The recycled water system shall be pressurized for pressure testing per these standards. The pressure testing shall be performed the same day.
5. **Continuity** – Shall be in conformance with Section 81-13 of these Construction Standards.

B. Private System (On-site) – Tests and procedures for recycled water systems for private use and maintenance shall conform to the following:

1. **Pressure Test** – The constant pressure recycled water system including appurtenances shall be tested at 125 PSI for one hour with non-detectable leakage.
2. **Cross-Connection Testing** – Testing for cross-connections shall be in accordance with the California Plumbing Code, Chapter 16 part II prior to use.

141-14 REPAIRING INSTALLED IMPROVEMENTS – All PVC and concrete cylinder pipe recycled water mains shall be repaired by the following procedure:

A. PVC – PVC repairs shall consist of the following:

1. Damaged or failed pipe sections shall be removed and replaced with new pipe in the presence of the Environmental Utilities Department Inspector. Replacement can be accomplished by the use of City-approved ductile iron mechanical joint repair sleeves. Pipe restraints may be required, depending on repair locations.
2. After the repair has been completed, the excavation shall be backfilled and compacted to grade as specified. The repairs shall then be re-tested per these Construction Standards.
3. At the direction of the City, the Contractor shall repair damage to the polyethylene encasement as described within ANSI/AWWA C-105/A21.5 or shall replace all damaged polyethylene film sections.

B. Concrete Cylinder Pipe Repairs – Concrete cylinder pipe repairs shall be coordinated with the Environmental Utilities Department on a case-by-case basis.

141-15 PUNCHLIST PROCESS – When the Contractor feels all improvements are substantially complete, a punchlist of final outstanding items may be requested. With the assistance and presence of the contractor, the punchlist shall be generated by the Environmental Utilities Department inspector. The cost in generating the punchlist shall be borne by the Contractor/Developer.

141-16 MATERIALS

A. Approved Equal – The words ‘approved equal’ shall mean any material deemed by the Environmental Utilities Department to be acceptable for use within the City’s recycled water system as compared to products of specified manufacturers. Contractors proposing to use materials which are not specifically named shall submit all necessary documentation to allow review of said material for use as an approved equal.

The submittal shall include a letter with:

- 1. Product** – A description of the product and the appropriate materials specification section number. A sample of the product may be required for review and testing.
- 2. Contact** – The name and telephone number of the contact person for the proposed product.
- 3. Reference** – A list of a minimum of three agencies that are using the proposed product (include names and telephone numbers).
- 4. Performance** – Information and reference for three locations with a performance record of three years in operation of the installation.
- 5.** Address the letter to the Environmental Utilities Department Engineering Division, 2005 Hilltop Circle, Roseville CA 95747, ATTN: EUD, Chairman of METAC. City staff may request a sample of the product for review.
- 6.** The contractor shall submit all material for review 35 day prior to contract award. All submittals shall include documentation verifying the contract award date. Contractors shall allow two to four weeks review time by the Environmental Utilities Department.

B. Conditionally Approved Material – Materials or products that have met the reference and performance requirements shall be conditionally approved for a minimum trial period of 2 years. Upon completion of the two year period. The product may be approved or the evaluation period may be extended as required by the Environmental Utilities Director. A list of conditionally approved products may be obtained from the Environmental Utilities Department.

C. Unapproved Materials – Materials not approved for use on the project shall be removed from the site within 24 hours if requested by the Environmental Utilities Department inspector.

D. Recycled Water Main – Unless noted on the approved plans, all recycled water mains shall be either Polyvinyl Chloride Pressure Pipe (PVC), Concrete Cylinder Pipe, or DIP.

1. PVC Pressure Pipe – PVC Pressure Pipe shall be manufactured in accordance with Section 81-16 of these Construction Standards, except as modified herein:

1a. All PVC transmission mains up to 16 inches in diameter shall be purple colored (Pantone 522) PVC. Mains 12 inches in diameter and smaller shall be AWWA C-900 class 150. Mains 16 inches in diameter shall be C-905 class 165. Approved PVC pipe manufacturers include: Certain Teed Certa Lock, Diamond Plastics Corporation, J-M Manufacturing, Pacific Western Pipe, Vinyl Tech-White Knight, or approved equal.

1b. PVC pipe shall be manufactured within the 18-month period prior to installation. All PVC pipe shall be purple in color with stenciling identifying it as recycled water, in accordance with the AWWA manual “Guidelines for the Distribution of Non-Potable Water”. Markings on the PVC pipe shall be placed continuous on two sides of the pipe and shall include:

i. “RECYCLED WATER – DO NOT DRINK”

ii. The pressure rating of the pipe, in pounds per square inch (PSI).

iii. The ASTM designation.

2. Concrete Cylinder Pipe (CCP) – The use of CCP is one option for recycled water transmission mains larger than 16 inches in diameter, CCP shall be in accordance with AWWA designations.

Approved concrete cylinder pipe manufacturers include: Ameron, Pacific-States, or approved equal.

3. **Ductile Iron Pipe (DIP)** – DIP may be used for any size-recycled water mains. DIP shall conform to Section 81-16 of these Construction Standards.

E. Services

1. **Brass Material** – Shall conform to Section 81-16 of these Construction Standards.
2. **Copper Tubing** – Shall conform to Section 81-16 of these Construction Standards.
3. **Corporation Stops** – Shall conform to Section 81-16 of these Construction Standards.
4. **Curb Stops** - Shall conform to Section 81-16 of these Construction Standards.
5. **Service Saddles** – PVC Pressure Pipe Saddles shall conform to Section 81-16 of these Construction Standards.

F. Appurtenances

1. **Air Release Valves** – Shall conform to Section 81-16 of these Construction Standards.
2. **Blocking for Boxes** – Shall conform to Section 81-16 of these Construction Standards.
3. **Boxes** – All box lids are to permanently be marked with the appropriate label (i.e., Recycled Water, ARV, Blow-Off, CPT, etc.). Boxes and manufacturers shall conform to Section 81-16 of these Construction Standards.
4. **Cadwelds** – Shall conform to Section 81-16 of these Construction Standards.
5. **Fittings** – PVC fittings shall conform to Section 81-16 of these Construction Standards.
6. **Gaskets** – Shall conform to Section 81-16 of these Construction Standards.

7. **Location Stakes** - Shall conform to Section 81-16 of these Construction Standards.
8. **Mainline Valve Lockout** - Shall conform to Section 81-16 of these Construction Standards.
9. **Manhole Frame and Cover** - Shall conform to Section 81-16 of these Construction Standards.
10. **Meters** – All meters are to be purchased through the Environmental Utilities Department Water Division at (916) 774-5750.
11. **Meter Idlers** – Shall conform to Section 81-16 of these Construction Standards.
12. **Meter Setters** - Shall conform to Section 81-16 of these Construction Standards.
13. **Meter Spud Couplers** - Shall conform to Section 81-16 of these Construction Standards.
14. **Nuts and Bolts** - Shall conform to Section 81-16 of these Construction Standards.
15. **Nylon Bushing** - Shall conform to Section 81-16 of these Construction Standards.
16. **Patching Material** - Shall conform to Section 81-16 of these Construction Standards.
17. **Polyethylene Encasement** - Shall conform to Section 81-16 of these Construction Standards.
18. **Pressure Regulators** - Shall conform to Section 81-16 of these Construction Standards.
19. **Restraints**
 - 19a. 12 Inches and Smaller Diameter c-900 PVC – Approved restraint systems for PVC Pressure Pipe include: Certain Teed Certa Lock (for straight runs only), Romac Grip Rings, or approved equal.
 - 19b. 16” C-905 PVC – Approved restraint systems include the following:

- i.** Uni-Flange Series 1500-C or approved equal for mechanical joint restraint.
 - ii.** Uni-Flange Series 1350-C for approval equal for bell & spigot restraint.
- 19c.** Restraint systems for pipe diameters 24 inches and larger shall conform to Section 81-16 of these Construction Standards.
- 20. Riser Aligners** - Shall conform to Section 81-16 of these Construction Standards.
- 21. Riser Stock** - Shall conform to Section 81-16 of these Construction Standards. Purple pipe shall be used.
- 22. Sampling Station** – Sampling stations shall be purchased from the Environmental Utilities Department Water Division at (916) 774-5750.
- 23. Tracing Wire** - Shall conform to Section 81-16 of these Construction Standards.
- 24. Tracing Wire Connectors** – Shall conform to Section 81-16 of these Construction Standards.
- 25. Traffic Boxes** - Shall conform to Section 81-16 of these Construction Standards.
- 26. Valves** - Shall conform to Section 81-16 of these Construction Standards.
- 27. Valve Boxes** – Shall conform to Section 81-16 of these Construction Standards.
- 28. Valve Nut Extensions** – Shall conform to Section 81-16 of these Construction Standards.
- 29. Zinc Caps** – Shall conform to Section 81-16 of these Construction Standards.

SECTION 151

SOLID WASTE CONSTRUCTION

151-1 GENERAL - Solid Waste enclosures shall be constructed in accordance with the requirements of these Construction Standards and as recommended by the manufacturer. These Construction Standards and manufacturer's guidelines shall be present at the construction site at all times.

151-2 APPROVED PLANS - Planning Department and Building Division approvals of the solid waste enclosure shall be obtained prior to beginning construction.

151-3 INSPECTION - Enclosures shall be inspected per the following procedure:

1. Contractor shall meet with the designated Environmental Utilities inspector prior to beginning work.
2. A City approved detailed structural design for the enclosure shall be provided to the inspector.
3. Footings, enclosure floor reinforcements, approach floor reinforcement, vertical wall reinforcement, and bollards shall be inspected prior to pouring concrete.
4. Gates shall be inspected prior to and after installation.
5. Signage and striping shall be inspected prior to and after installation.

151-4 PUNCHLIST PROCESS - When all improvements are substantially complete, the contractor shall provide a written request for a punchlist inspection of the improvements.

151-5 MATERIALS - Materials shall be as specified on these Construction Standards and as approved by the architect and the City for the specific project.

CITY OF ROSEVILLE

DESIGN AND CONSTRUCTION DETAILS

January 2016

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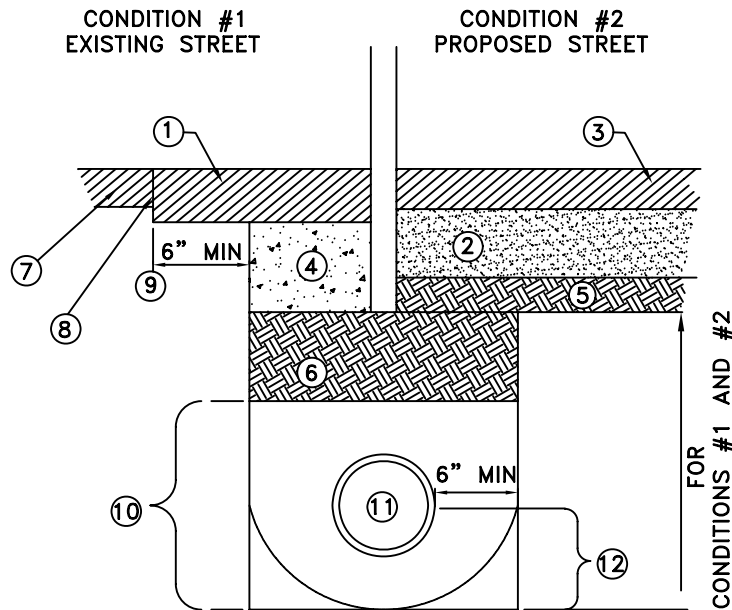
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NOTES:

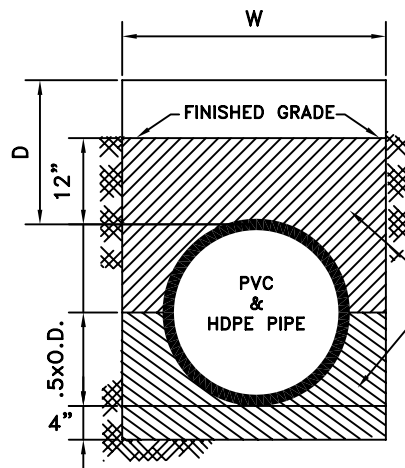
1. ASPHALT CONCRETE PATCH, 6 INCHES THICK OR THAT OF EXISTING, WHICHEVER IS MORE.
2. AGGREGATE BASE OR AGGREGATE BASE AND SUBBASE SECTION PER APPROVED PLAN. 95% RELATIVE COMPACTION.
3. ASPHALT CONCRETE PAVEMENT SECTION PER APPROVED PLANS.
4. 24 INCHES OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPEC 19-3.062
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8. TACK COAT ON ALL VERTICAL PAVEMENT SAWCUTS.
9. TYPICAL EACH SIDE OF TRENCH IN EXISTING STREET.
10. FOR PIPE EMBEDMENT SEE TB-2 FOR PLASTIC STORM DRAIN, W-1 FOR WATER PIPE, SS-1 FOR SANITARY SEWER PIPE, OF THESE CONSTRUCTION STANDARDS.
11. PIPE
12. FOR REINFORCED CONCRETE PIPE EMBEDMENT: PLACE 1/2 INCH CRUSHED ROCK UP TO SPRING LINE WITH MINIMUM OF FOUR (4) INCHES OF 1/2 INCH CRUSHED ROCK BEDDING. MAINTAIN MINIMUM OF SIX (6) INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
13. ALTERNATE TRENCH BOTTOM. THE DIAMETER OF THE ALTERNATE ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: IN CONDITION #1, TRENCH CUT FEE MAY APPLY PER CITY ORDINANCE.

RHON HERNDON

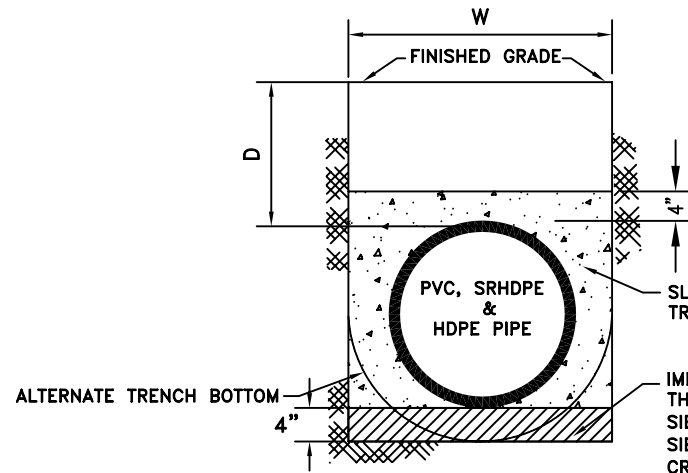
RHON HERNDON
PUBLIC WORKS DIRECTOR

		DEPARTMENT OF PUBLIC WORKS
UTILITY TRENCH PAVING BACKFILL AND EMBEDMENT		
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON		TB-1



DETAIL A
SRHDPE, PVC & HDPE
PIPE ONLY (NONRIGID)

IMPORTED MATERIAL: LESS
THAN 10% PASSING No. 8
SIEVE; 100% PASSING 1/2"
SIEVE FOR ALL PIPE (3/8"
CRUSHED ROCK)
OR
85 TO 90% PASSING 1/2"
SIEVE AND 100% PASSING
3/4" SIEVE. (1/2" CRUSHED
ROCK)



DETAIL B
SRHDPE, PVC & HDPE
PIPE ONLY (NONRIGID)

SLURRY BACKFILL PER CAL
TRANS SEC. 19-3.062

IMPORTED MATERIAL: LESS
THAN 10% PASSING No. 8
SIEVE; 100% PASSING 1/2"
SIEVE FOR ALL PIPE (3/8"
CRUSHED ROCK)
OR
85 TO 90% PASSING 1/2"
SIEVE AND 100% PASSING
3/4" SIEVE. (1/2" CRUSHED
ROCK)

NOTES:

1. TRENCH WIDTH:

PIPE SIZE	TRENCH WIDTH = W
30" AND UNDER	O.D. + 16"
OVER 30"	O.D. x 1.25 + 12"

- HIGH DENSITY POLYETHYLENE (HDPE) STORM DRAIN PIPE SHALL BE TYPE "S" AS DESCRIBED IN SECTION 64 OF THE CALTRANS STANDARD SPECIFICATIONS. PIPE INSTALLATION AND PIPE CONFIGURATION SHALL BE AS SHOWN ON THIS DRAWING AND AS DESCRIBED IN THESE GENERAL NOTES. JOINTS SHALL BE SEALED WITH A RUBBER GASKET. GASKETS SHALL MEET THE REQUIREMENT OF ASTM F-477. "
- FILL HEIGHTS "D" FOR NONRIGID (PVS & HDPE) DRAIN PIPE SHALL BE A MINIMUM OF 36 INCH AND A MAXIMUM OF 15 FEET, AND (SRHDPE) SHALL HAVE A MINIMUM OF ONE FOOT (IN ADDITION TO THE ROADWAY STRUCTURAL SECTION) AND A MAXIMUM OF 30 FEET FROM THE TOP OF PIPE FINISH GRADE. (SEE DETAILS A & B FOR TRENCH BACKFILL REQUIREMENTS. CONTRACTOR MAY USE EITHER DETAIL A OR B.)
- PIPE MATERIAL CHANGES BETWEEN STRUCTURES ARE PROHIBITED. OUTFALL/INLET RUNS AND STUBS INTO FUTURE SITES SHALL BE RCP. (SEE SECTION 101-6 D.1.C. AND 101-8 D.4. FOR CONCRETE PIPE APPLICATION.)
- REFER TO TB-1 FOR TREATMENT OF THE TOP PORTION OF THE TRENCH WITHIN THE CITY STREET.
- THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL BE EQUAL TO THE WIDTH OF THE TRENCH.

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

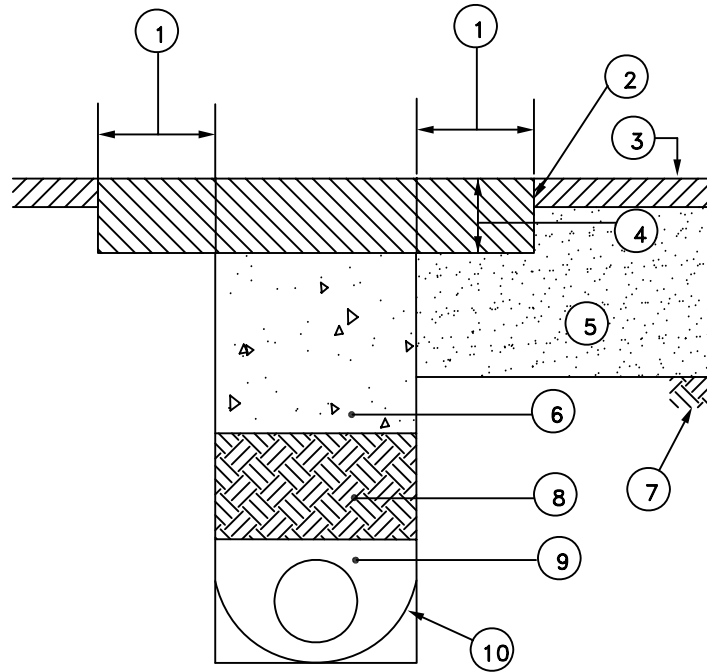


DEPARTMENT OF
PUBLIC WORKS

HDPE, SRHDPE PVC STORM DRAIN
PIPE ONLY (NONRIGID)
BEDDING AND BACKFILL

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TB-2



NOTES:

1. 18 INCH KEY OUTSIDE TRENCH LINE
2. COAT ALL EXISTING VERTICAL FACES WITH ASPHALTIC EMULSION (TACK) PRIOR TO PAVING
3. EXISTING AC PAVING
4. PATCH SHALL BE THICKNESS OF EXISTING SECTION PLUS 2 1/2 INCHES. PER CITY TRENCH CUT ORDINANCE (6 INCH MINIMUM THICKNESS).
5. AGGREGATE BASE/SUBBASE: RECOMPACT DISTURBED SURFACE AREAS TO 95%.
6. TWO FEET OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPECIFICATION 19-3.062
7. NATIVE SOIL
8. NATIVE SOIL TO BE PROCESSED TO 90% RELATIVE COMPACTION.
9. FOR PIPE EMBEDMENT, SEE THE FOLLOWING CONDITIONS:
 - a. TB-2 FOR PLASTIC STORM DRAIN PIPE
 - b. W-1 FOR WATER PIPE
 - c. SS-1 FOR WASTE WATER PIPE
 - d. FOR REINFORCED CONCRETE PIPE, PLACE 1/2 CRUSHED ROCK UP TO SPRING LINE WITH A MINIMUM OF FOUR INCHES OF BEDDING BELOW PIPE. MAINTAIN A MINIMUM OF SIX INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
10. ALTERNATE TRENCH BOTTOM. THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: THIS DETAIL APPLIES TO UTILITY TRENCHES IN WHICH TRENCH CUT FEES WERE NOT PAID BY THE APPLICANT, OR AS SPECIFIED BY THE ENGINEER.

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

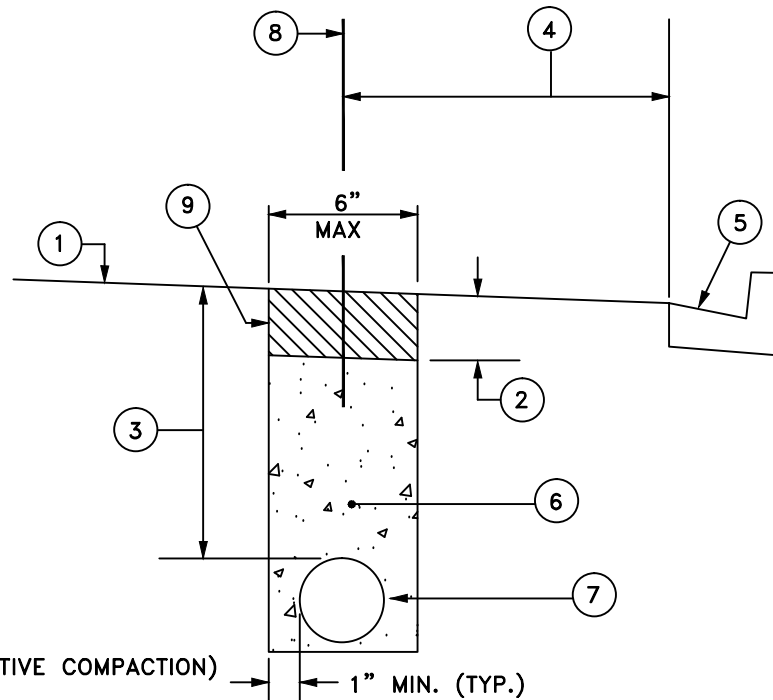


DEPARTMENT OF
PUBLIC WORKS

DEEP CUT "T"
PATCH RECONSTRUCTION

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TB-3



LEGEND:

1. SURFACE OF EXISTING STREET SECTION
2. .25' THICK ASPHALT CONCRETE PER SECTION 71-4.D. (93% RELATIVE COMPACTION)
3. PIPE COVER PER UTILITY CO. (18" MIN TO 30" MAX)
4. DISTANCE VARIES. IF LESS THAN 3 FEET, THEN CONTRACTOR IS REQUIRED TO EDGE GRIND FROM LIP OF GUTTER (.15' DEEP) TO INSIDE LIMIT LINE OF TRENCH
5. EXISTING CURB AND GUTTER
6. "MINOR CONCRETE" CONFORMING TO THE PROVISIONS IN SECTION 71-5B, "CONCRETE", WITH FINE AGGREGATE (PEA GRAVEL MIX). CONCRETE SHALL BE FLOW-ABLE AT DISCRETION OF CITY INSPECTOR
7. CONDUIT AS SPECIFIED
8. CENTER LINE OF BIKE LANE STRIPE
9. PLACE BINDER (TACK COAT) ON ALL SURFACES PRIOR TO PAVING PER SECTION 39 OF STATE STANDARD SPECIFICATIONS

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF BIKE LANE STRIPE AND LEGENDS (AFFECTED BY TRENCHING) WITH THERMOPLASTIC MATERIAL.
2. ALL EXCAVATED AREAS IN THE PAVEMENT SHALL BE BACKFILLED, EXCEPT FOR THE TOP 0.25' BY THE END OF EACH WORK DAY. THE TOP .25' SHALL BE PLACED WITHIN 3 WORKING DAYS AFTER TRENCHING. DELINEATORS SHALL BE PLACED ON TEN FOOT CENTERS, AND WITHIN 1' OF EACH SIDE OF DRIVEWAYS IN THE INTERIM. REFER TO SECTION 6.2W.5 FOR TRANSITION LOCATIONS.
3. TRENCH CUT FEE SHALL APPLY PER CITY ORDINANCE. NO ALTERNATE TRENCH CONFIGURATION IS ALLOWED.
4. SEE DETAIL TS-13 FOR MULTIPLE CONDUIT PROVISIONS.

Marc Stout

MARC STOUT
CITY ENGINEER

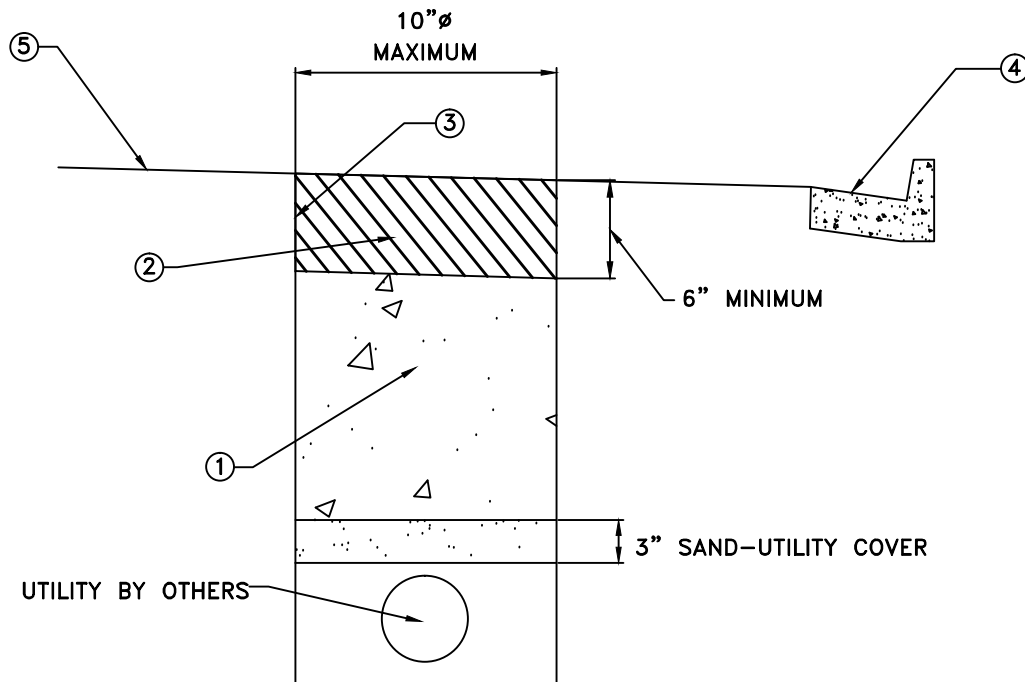


DEVELOPMENT SERVICES
DEPARTMENT

ROCK WHEEL TRENCH
(IN EXISTING STREET)

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J MCKINNEY
APPROVED BY: MARC STOUT

TB-4



LEGEND:

1. "MINOR CONCRETE" CONFORMING TO THE PROVISIONS IN SECTION 71-5B, "CONCRETE", WITH FINE AGGREGATE (PEA GRAVEL MIX).
2. 1/2" ASPHALT CONCRETE PER CONSTRUCTION STANDARDS SECTION 71-4.D. (93% RELATIVE COMPACTION)
3. PLACE BINDER (TACK COAT) ON ALL SURFACES PRIOR TO PAVING PER SECTION 39 OF STATE STANDARD SPECIFICATIONS
4. EXISTING CURB AND GUTTER
5. SURFACE EXISTING STREET SECTION (PAVEMENT)

NOTES

1. ASPHALT CONCRETE ROADWAY SURFACE POTHOLE SHALL BE SAW CUT OR JACKHAMMERED IN A UNIFORM FASHION. FOR PORTLAND CEMENT CONCRETE ROADWAYS, BRING CONCRETE BACKFILL TO SURFACE, AND FINISH WITH MEDIUM BROOM FINISH.
2. MAXIMUM POTHOLE SIZE SHALL BE 10" DIAMETER. SHOULD POTHOLE SIDEWALL CAVE-IN OCCUR DURING JET-VAC EXCAVATION ADDITIONAL EXCAVATION MAY BE REQUIRED (AT THE DISCRETION OF THE DEVELOPMENT SERVICES INSPECTOR).
3. REPLACE ALL PAVEMENT MARKINGS AND THERMOPLASTIC LEGENDS THAT WERE DAMAGED.
4. POTHOLE EXCAVATION MUST BE TEMPORARILY BACKFILLED SAME DAY AS EXCAVATION AND PERMANENTLY WITHIN SEVEN CALENDAR DAYS.
5. TEMPORARY STEEL COVERS ARE REQUIRED WHEN POTHOLING IS LOCATED WITHIN THE TRAVEL LANES, WHEN OPEN TO TRAFFIC.

Marc Stout

MARC STOUT
CITY ENGINEER

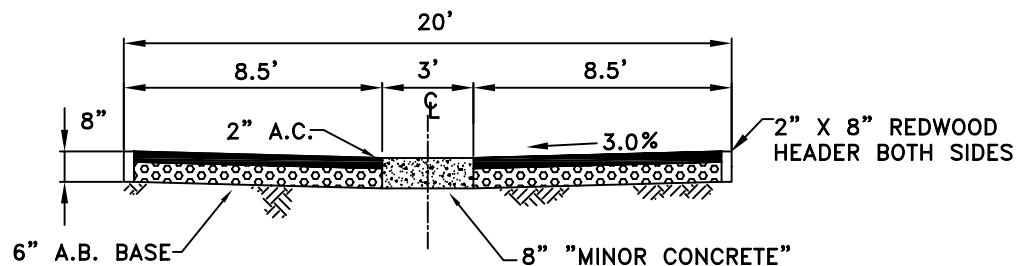
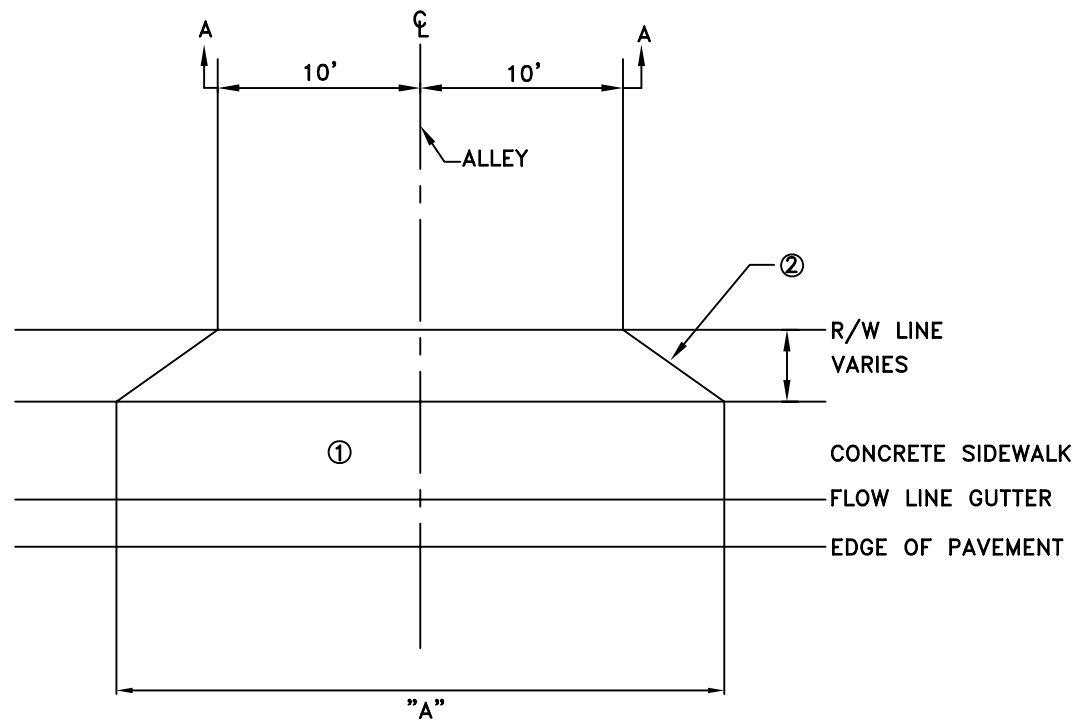


DEPARTMENT OF
PUBLIC WORKS

**POTHOLE
RECONSTRUCTION**

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J MCKINNEY
APPROVED BY: GUY HOWES

TB-5



SECTION A-A

NOTES

1. ALLEY ENTRANCE SHALL CONFORM TO DESIGN STANDARD DRAWING ST-20 OR ST-21 WITH "A" EQUAL TO 25 FEET.
2. TRANSITION FROM DRIVEWAY TO ALLEY SHALL BE MADE BETWEEN BACK OF WALK AND RIGHT OF WAY. VARIATION FROM THIS MAY REQUIRE DEDICATION OF ADDITIONAL RIGHT OF WAY FOR TRANSITION.
3. ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

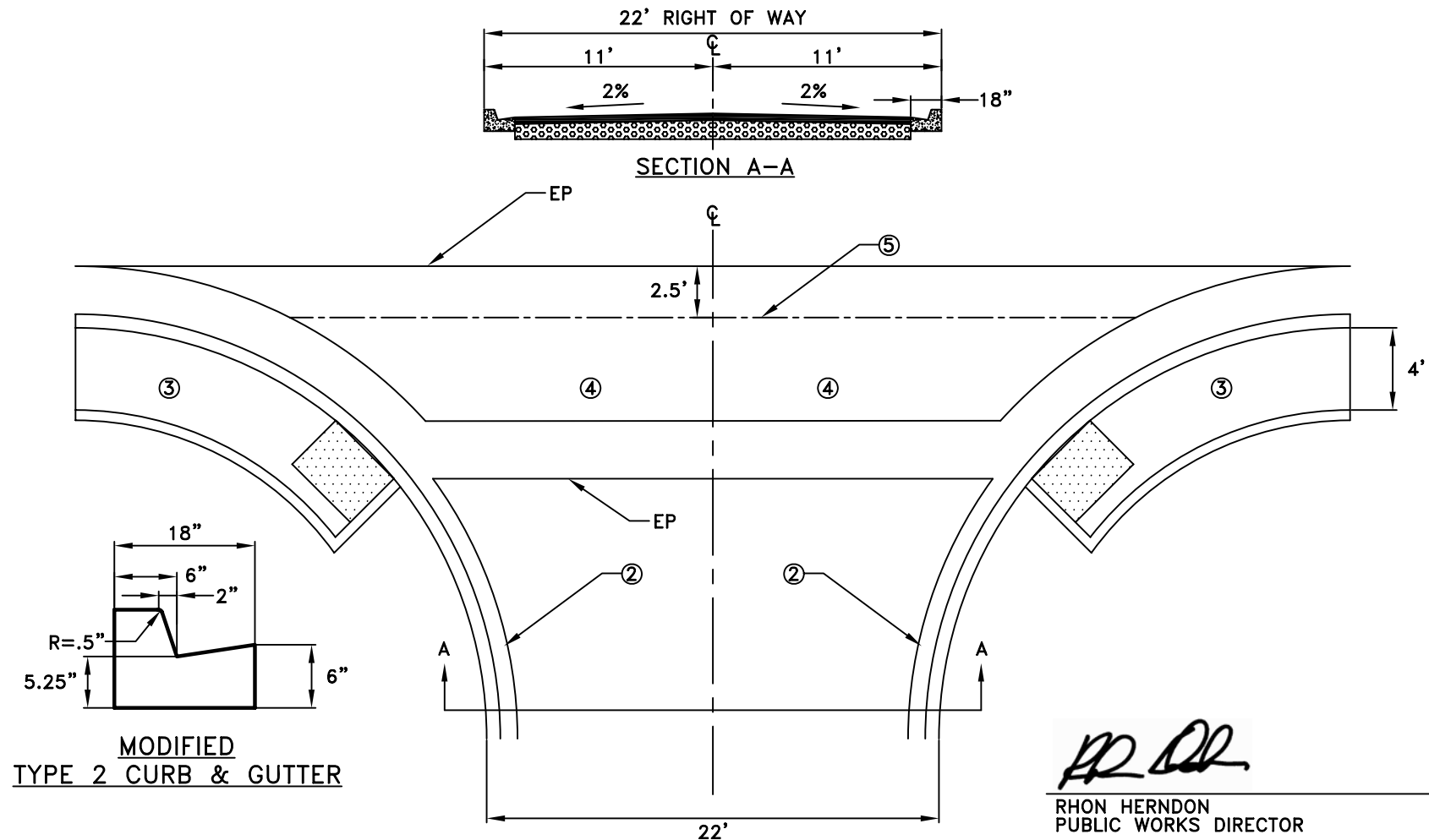


DEPARTMENT OF
PUBLIC WORKS

ALLEY DETAIL

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-1a



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

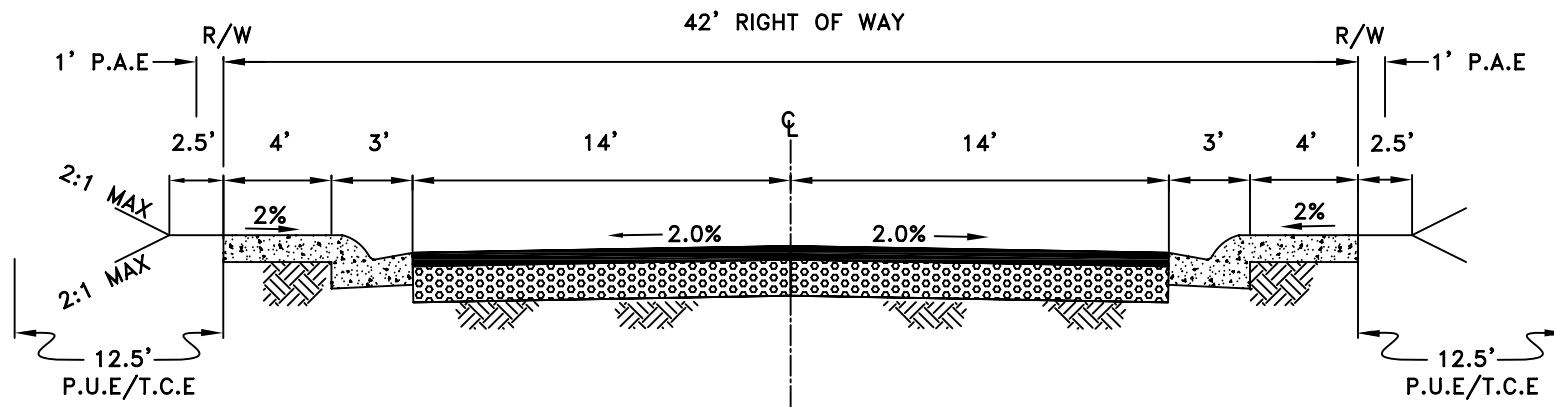
MODIFIED ALLEY RESIDENTIAL

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-1b

NOTES

1. PAVEMENT SECTION TO BE DESIGNED BASED ON A TRAFFIC INDEX (TI) OF 7. SEE SECTION 7-4 OF THE DESIGN STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
2. CURB AND GUTTER TO BE "MODIFIED TYPE 2" PER THIS DETAIL.
3. "CURB RAMP" PER DETAIL ST-22 WITH A 4' SIDEWALK.
4. ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS, AND SHALL BE 10" THICK.
5. "V-GUTTER" PER DETAIL ST-22.



MINOR RESIDENTIAL STREETS ATTACHED SIDEWALK

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. PAVEMENT SECTION TO BE A.C. ON A.B.. SEE SECTION 7-4 OF THESE STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
2. CURB AND GUTTER TO BE "TYPE 1" (ST-17) ADJACENT TO SINGLE FAMILY RESIDENTIAL LOTS. "TYPE 2" (ST-17) AT ALL OTHER LOCATIONS.
3. SIDEWALK TO HAVE EITHER THICKNESS OF 6" ON COMPACTED NATIVE SOIL OR 4" THICKNESS WITH 4" COMPACTED AGGREGATE BASE.
4. PRIVATE STREET SECTION'S WIDTH CAN BE REDUCED BY 4-FEET BY ELIMINATING SIDEWALK FROM ONE SIDE OF THE STREET WITH THE APPROVAL OF CITY ENGINEER.
5. P.U.E./T.C.E - PUBLIC UTILITY EASEMENT / TRAFFIC CONTROL EASEMENT
6. P.A.E - PEDESTRIAN ACCESS EASEMENT

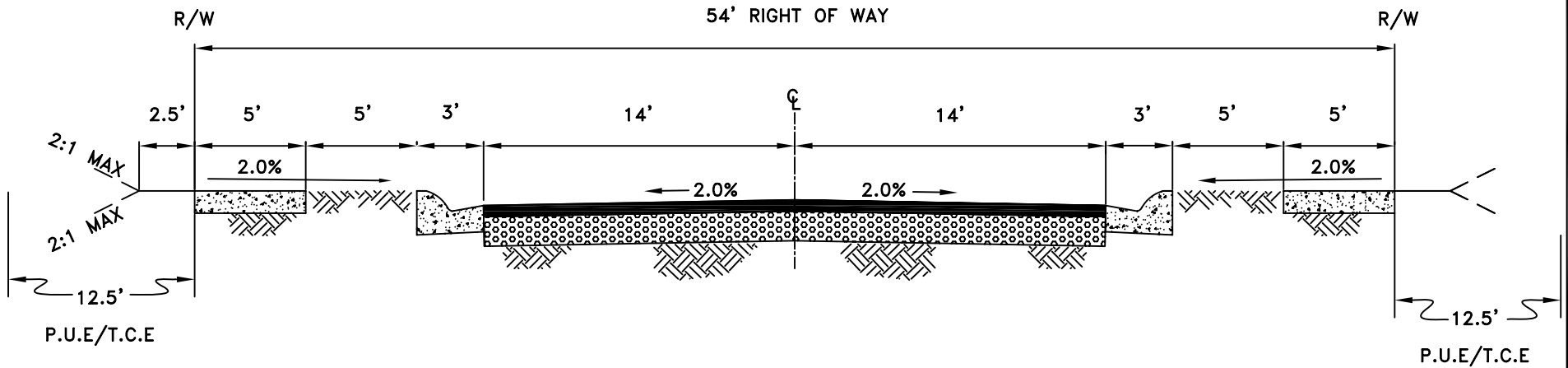


DEPARTMENT OF
PUBLIC WORKS

MINOR RESIDENTIAL STREETS ATTACHED SIDEWALK

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-2



MINOR RESIDENTIAL STREETS DETACHED SIDEWALK

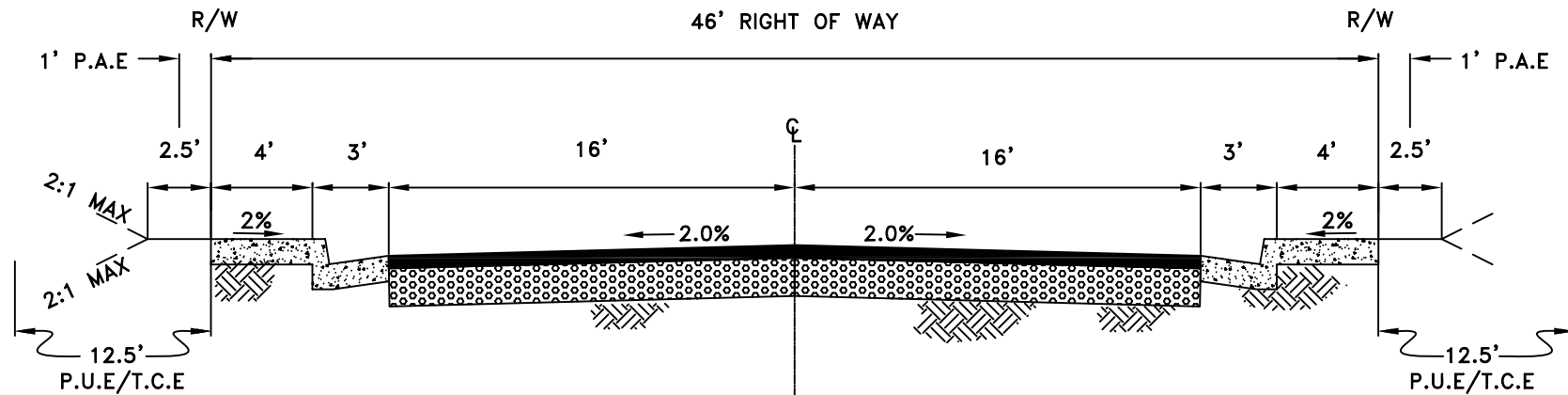
RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. PAVEMENT SECTION TO BE A.C. ON A.B.. SEE SECTION 7-4 OF THE DESIGN STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
2. CURB AND GUTTER TO BE "TYPE 1"(ST-17) ADJACENT TO SINGLE FAMILY RESIDENTIAL LOTS. "TYPE 2"(ST-17) AT ALL OTHER LOCATIONS
3. SIDEWALK TO HAVE EITHER THICKNESS OF 6" ON COMPACTED NATIVE SOIL OR 4" THICKNESS WITH 4" COMPACTED AGGREGATE BASE.
4. P.U.E/T.C.E - PUBLIC UTILITY EASEMENT / TRAFFIC CONTROL EASEMENT

		DEPARTMENT OF PUBLIC WORKS
MINOR RESIDENTIAL STREETS DETACHED SIDEWALK		
SCALE: NONE REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON		ST-3



PRIMARY RESIDENTIAL STREETS ATTACHED SIDEWALK

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. PAVEMENT SECTION TO BE A.C. ON A.B.. SEE SECTION 7-4 OF THE DESIGN STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
2. CURB AND GUTTER TO BE "TYPE 1"(ST-17) ADJACENT TO SINGLE FAMILY RESIDENTIAL LOTS. "TYPE 2"(ST-17) AT ALL OTHER LOCATIONS
3. SIDEWALK TO HAVE EITHER THICKNESS OF 6" ON COMPACTED NATIVE SOIL OR 4" THICKNESS WITH 4" COMPACTED AGGREGATE BASE.
4. P.U.E./T.C.E - PUBLIC UTILITY EASEMENT / TRAFFIC CONTROL EASEMENT
5. P.A.E - PEDESTRIAN ACCESS EASEMENT

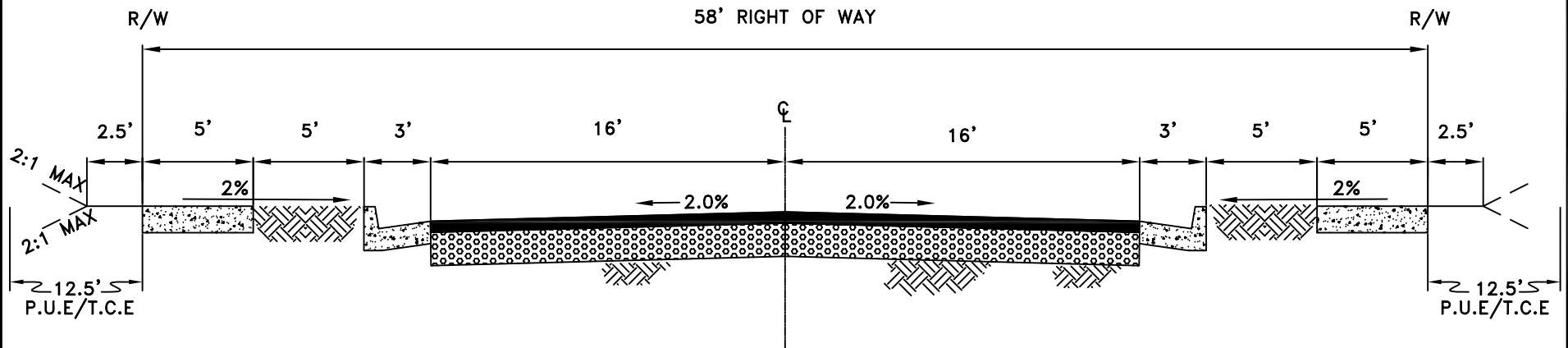


DEPARTMENT OF
PUBLIC WORKS

PRIMARY RESIDENTIAL STREETS ATTACHED SIDEWALK

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-4



PRIMARY RESIDENTIAL STREETS DETACHED SIDEWALK

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. PAVEMENT SECTION TO BE A.C. ON A.B.. SEE SECTION 7-4 OF THE DESIGN STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
2. CURB AND GUTTER TO BE "TYPE 1"(ST-17) ADJACENT TO SINGLE FAMILY RESIDENTIAL LOTS. "TYPE 2"(ST-17) AT ALL OTHER LOCATIONS
3. SIDEWALK TO HAVE EITHER THICKNESS OF 6" ON COMPACTED NATIVE SOIL OR 4" THICKNESS WITH 4" COMPACTED AGGREGATE BASE.
4. P.U.E./T.C.E - PUBLIC UTILITY EASEMENT / TRAFFIC CONTROL EASEMENT



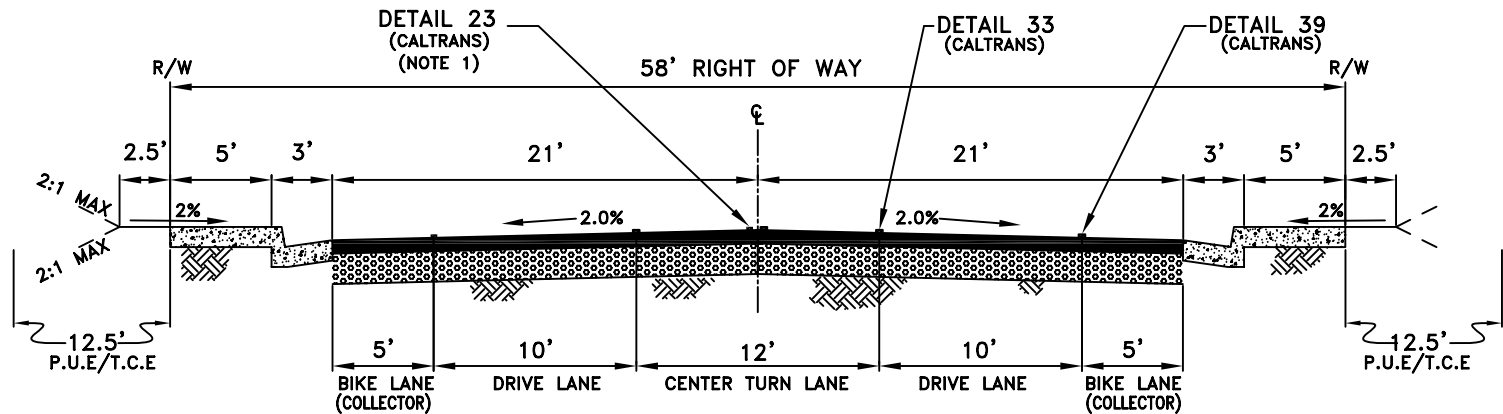
DEPARTMENT OF
PUBLIC WORKS

PRIMARY RESIDENTIAL STREETS DETACHED SIDEWALK

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

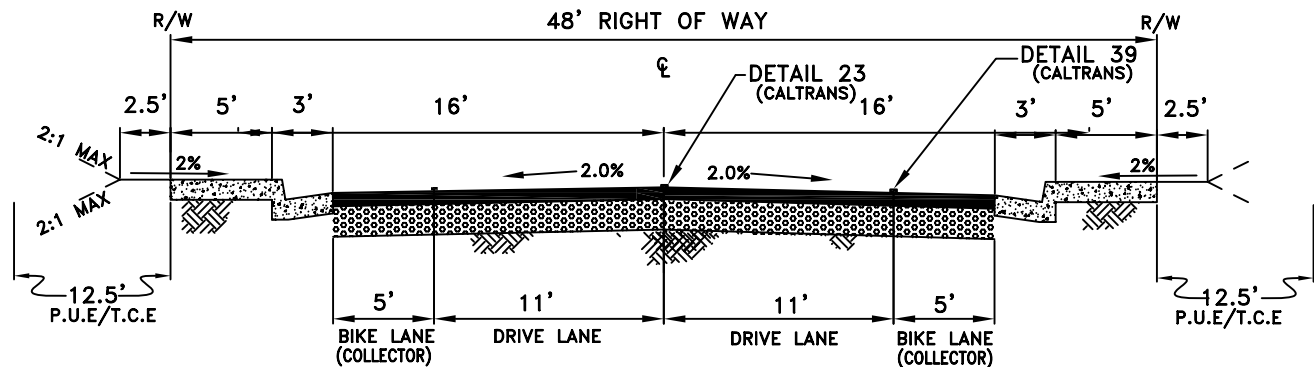
ST-5

OPTION A



OPTION B

(SEE NOTE #8)



NOTES:

1. ON INDUSTRIAL STREETS THE CENTER TWO WAY LEFT TURN (DETAIL 33) SHALL BE REPLACED BY A DETAIL "23"(CALTRANS) CENTERLINE STRIPING AND TURN LANES AS MAY BE REQUIRED. NO BIKE LANES ARE REQUIRED.
2. PAVEMENT SECTION SHALL BE AC ON AB. SEE SECTION 7-4 OF THE DESIGN STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
3. CURB AND GUTTER SHALL BE "TYPE 2"(ST-17) AND SIDEWALK TO HAVE EITHER THICKNESS OF 6" ON COMPACTED NATIVE SOIL OR 4" THICKNESS WITH 4" COMPACTED AGGREGATE BASE.
4. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS.
5. P.U.E./T.C.E – PUBLIC UTILITY EASEMENT / TRAFFIC CONTROL EASEMENT
6. "NO PARKING"(R-26) SIGNS SHALL BE PLACED ON STREET LIGHT POLES WHERE BIKE LANE EXIST OR AS DIRECTED BY CITY ENGINEER.
7. SIGN DETAIL NUMBERS REFERENCE 2012 CALIFORNIA MUTCD.
8. IN CERTAIN INSTANCES, WITH THE RECOMMENDATION OF THE PUBLIC WORKS DIRECTOR, AND APPROVAL OF THE CITY COUNCIL, THIS ROADWAY STANDARD MAY BE MODIFIED WITH THE DEMONSTRATION THAT "BLUEPRINT" GOALS AND OBJECTIVES OF A WALKABLE COMMUNITY ARE BEING ACHIEVED WITHIN A COMMUNITY PLAN.

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

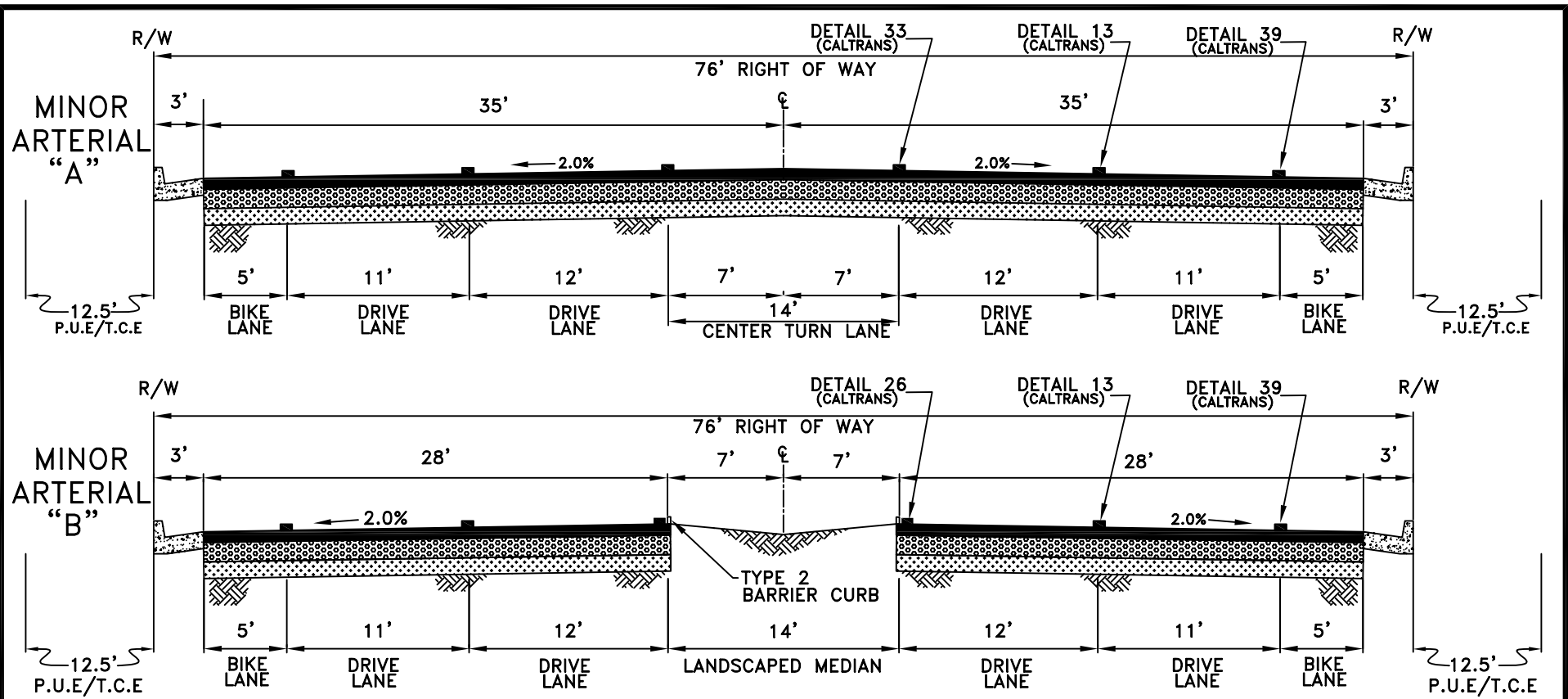


DEPARTMENT OF
PUBLIC WORKS

COLLECTOR/INDUSTRIAL STREETS
ATTACHED SIDEWALK

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-6



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. MINOR ARTERIAL "A" SHALL BE USED WHEN CENTER TURN LANES ARE TO BE INSTALLED.
2. MINOR ARTERIAL "B" SHALL BE USED WHEN LANDSCAPED MEDIAN ARE TO BE INSTALLED.
3. PAVEMENT SECTION SHALL BE AC ON AB. SEE SECTION 7-4 OF THE DESIGN STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
4. CURB AND GUTTER SHALL BE "TYPE 2"(ST-17). MEDIAN CURBS SHALL BE "TYPE 1"(ST-18) BARRIER CURB WHEN SOLID MEDIAN ARE INSTALLED AND "TYPE 2"(ST-18) BARRIER CURB WHEN LANDSCAPED MEDIAN ARE INSTALLED.
5. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS.
6. P.U.E./T.C.E - PUBLIC UTILITY EASEMENT / TRAFFIC CONTROL EASEMENT.

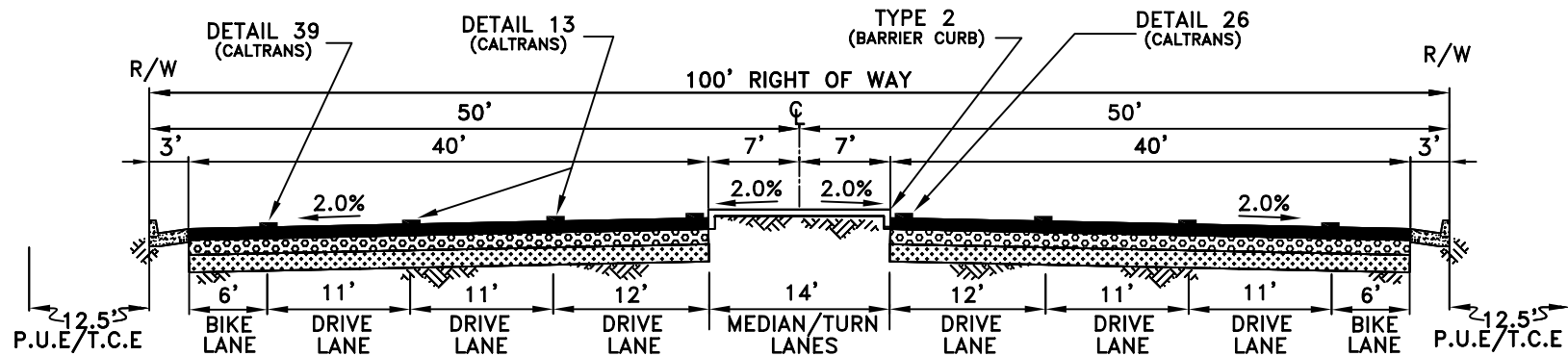


DEPARTMENT OF
PUBLIC WORKS

MINOR ARTERIAL STREETS

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-8



MAJOR ARTERIAL STREETS

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

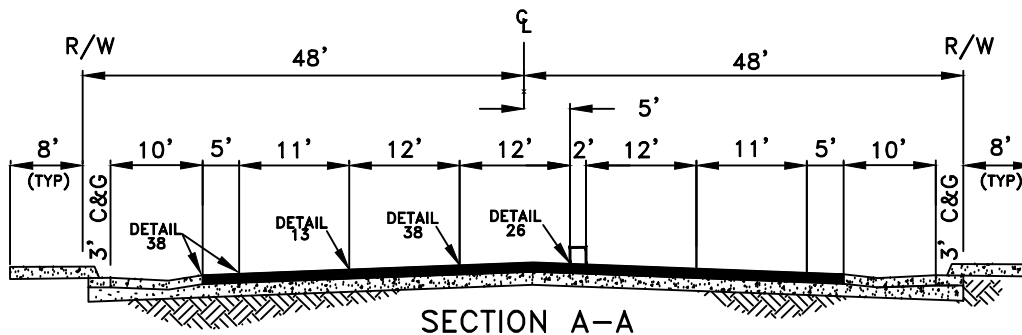
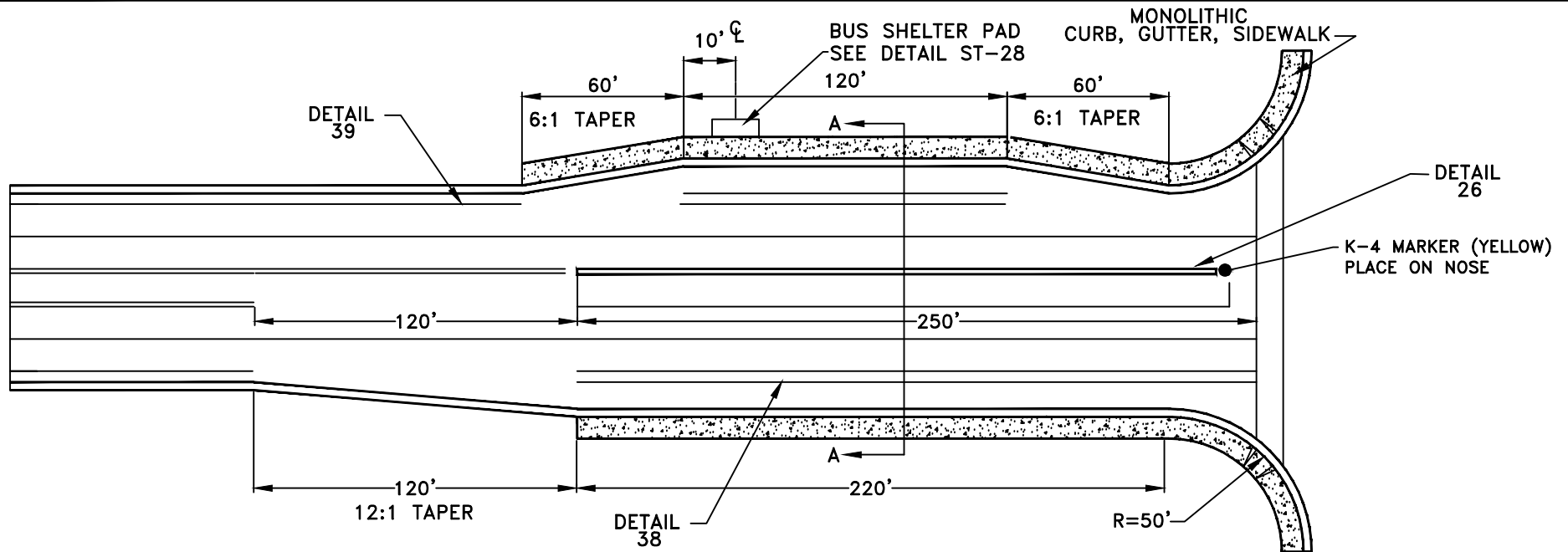
NOTES:

1. CURB AND GUTTER SHALL BE "TYPE 2"(ST-17) AND THE MEDIAN CURB SHALL BE "TYPE 2"(ST-18) BARRIER CURB.
2. PAVEMENT SECTION SHALL BE A.C. ON A.B. SEE SECTION 7-4 OF THE DESIGN STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
3. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS.
4. P.U.E./T.C.E - PUBLIC UTILITY EASEMENT / TRAFFIC CONTROL EASEMENT.

MAJOR ARTERIAL STREETS

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-9



NOTES:

1. RIGHT OF WAY SHALL BE DEDICATED TO ACCOMMODATE DUAL LEFT TURNS AS SPECIFIED IN DESIGN STANDARD DRAWING ST-11.
2. STOP BAR FOR LEFT TURN LANE SHALL BE TEN FEET BACK OF NEAR CROSSWALK STRIPE.
3. NOSE OF MEDIAN SHALL BE 15 FEET BACK OF NEAR CROSSWALK STRIPE.
4. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS.
5. SIGN DETAIL NUMBERS REFERENCE 2012 CALIFORNIA MUTCD.

Marc Stout

MARC STOUT
CITY ENGINEER

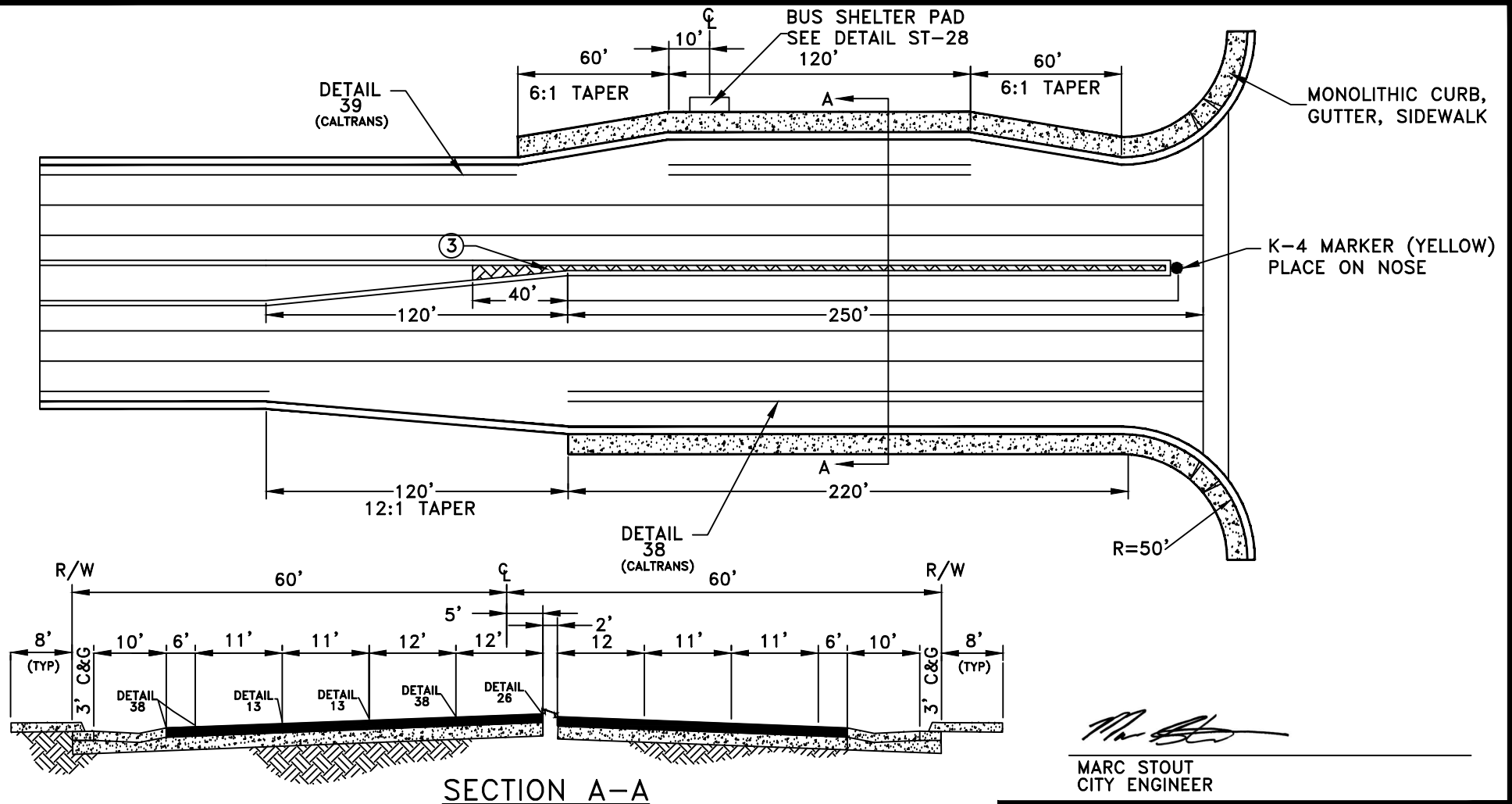
CITY OF
ROSEVILLE
CALIFORNIA

DEVELOPMENT SERVICES
DEPARTMENT

FOUR-LANE ARTERIAL SINGLE LEFT TURNS

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J MCKINNEY
APPROVED BY: MARC STOUT

ST-10



Marc Stout

MARC STOUT
CITY ENGINEER



DEVELOPMENT SERVICES
DEPARTMENT

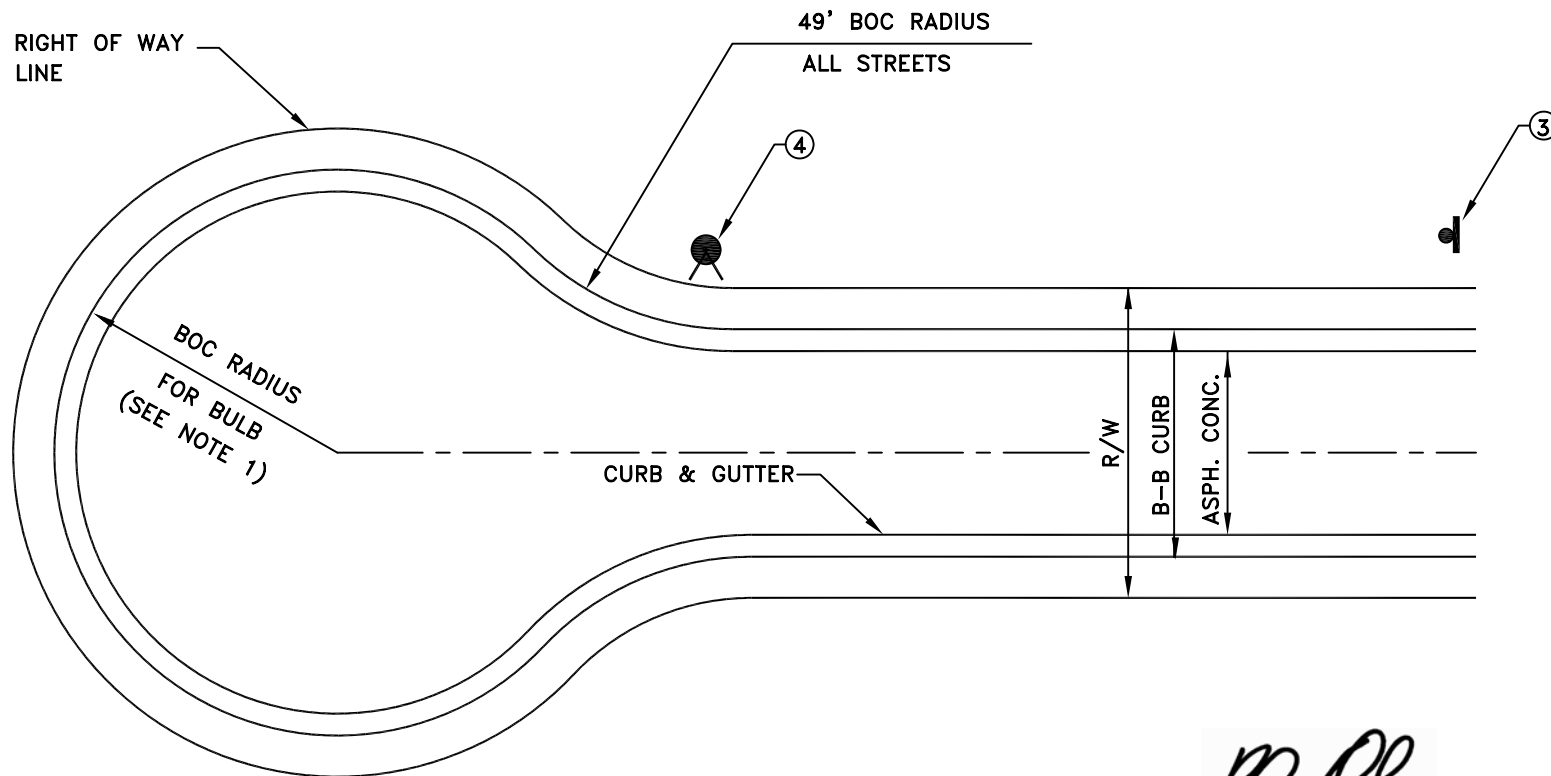
SIX-LANE ARTERIAL
SINGLE LEFT TURNS

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J MCKINNEY
APPROVED BY: MARC STOUT

ST-12

NOTES:

1. STOP BAR FOR LEFT TURN LANE SHALL BE TEN FEET BACK OF NEAR CROSSWALK STRIPE.
2. NOSE OF MEDIAN SHALL BE 15 FEET BACK OF NEAR CROSSWALK.
3. "STAMPED CONCRETE" SEE DETAIL ST-37.
4. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS.
5. SIGN DETAIL NUMBERS REFERENCE 2012 CALIFORNIA MUTCD.



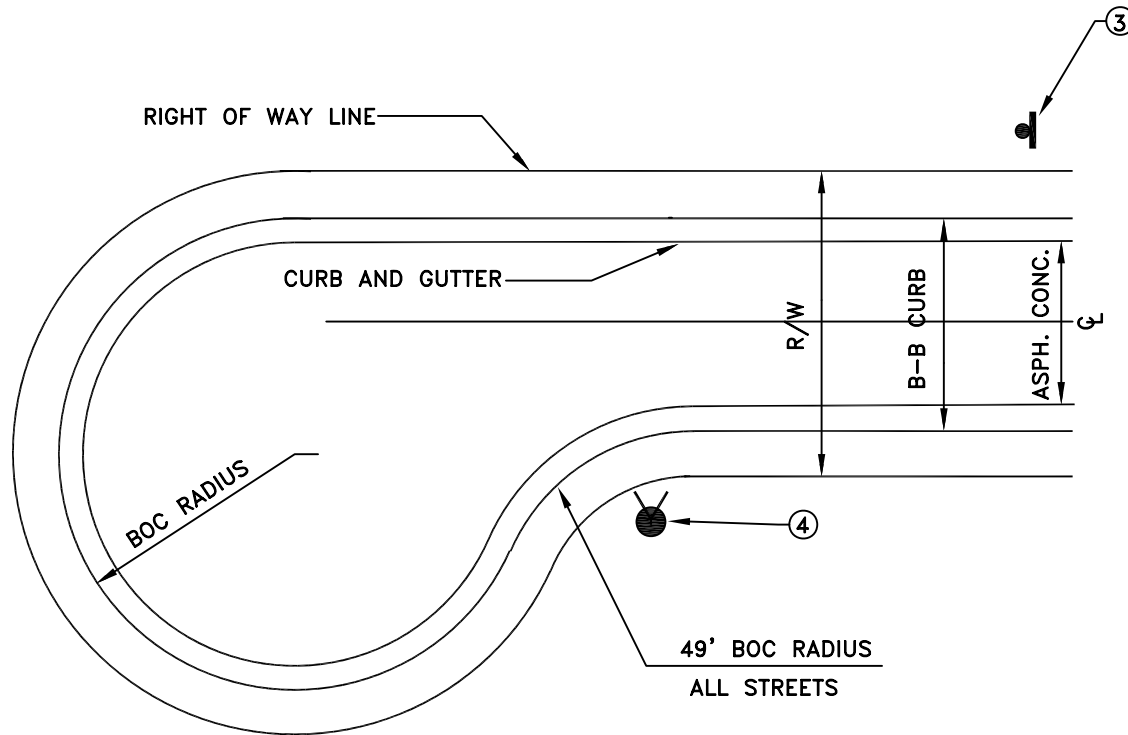
RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. BACK OF CURB RADIUS FOR BULB SHALL BE AS FOLLOWS:
INDUSTRIAL STREET / RESIDENTIAL STREET - 39 FEET
2. LENGTH OF CUL-DE-SAC STREETS SHALL BE MEASURED FROM CENTER OF BULB TO CENTER LINE OF INTERSECTING STREET. CUL-DE-SAC LENGTH SHALL NOT EXCEED 500 FEET WITHOUT THE APPROVAL OF THE CITY ENGINEER.
3. INSTALL "NOT A THROUGH STREET"(CALTRANS W-53) SIGN ON STREET LIGHT POLE WHEN END OF CUL-DE-SAC IS NOT VISIBLE FROM ADJACENT STREET.
4. ALL CUL-DE-SACS IN EXCESS OF 200' SHALL HAVE A FIRE HYDRANT INSTALLED AT THE BULB. SUBJECT TO THE APPROVAL OF THE FIRE DEPARTMENT.

	DEPARTMENT OF PUBLIC WORKS			
CUL-DE-SAC STREET				
SCALE: NONE REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON		ST-14		



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. BACK OF CURB RADIUS FOR BULB SHALL BE AS FOLLOWS:
INDUSTRIAL STREET / RESIDENTIAL STREET - 39 FEET
2. LENGTH OF CUL-DE-SAC STREETS SHALL BE MEASURED FROM CENTER OF BULB TO CENTER LINE OF INTERSECTING STREET. CUL-DE-SAC LENGTH SHALL NOT EXCEED 500 FEET WITHOUT THE APPROVAL OF THE CITY ENGINEER.
3. INSTALL "NOT A THROUGH STREET"(CALTRANS W-53) SIGN ON STREET LIGHT POLE WHEN END OF CUL-DE-SAC IS NOT VISIBLE FROM ADJACENT STREET.
4. ALL CUL-DE-SACS IN EXCESS OF 200' SHALL HAVE A FIRE HYDRANT INSTALLED AT THE BULB.

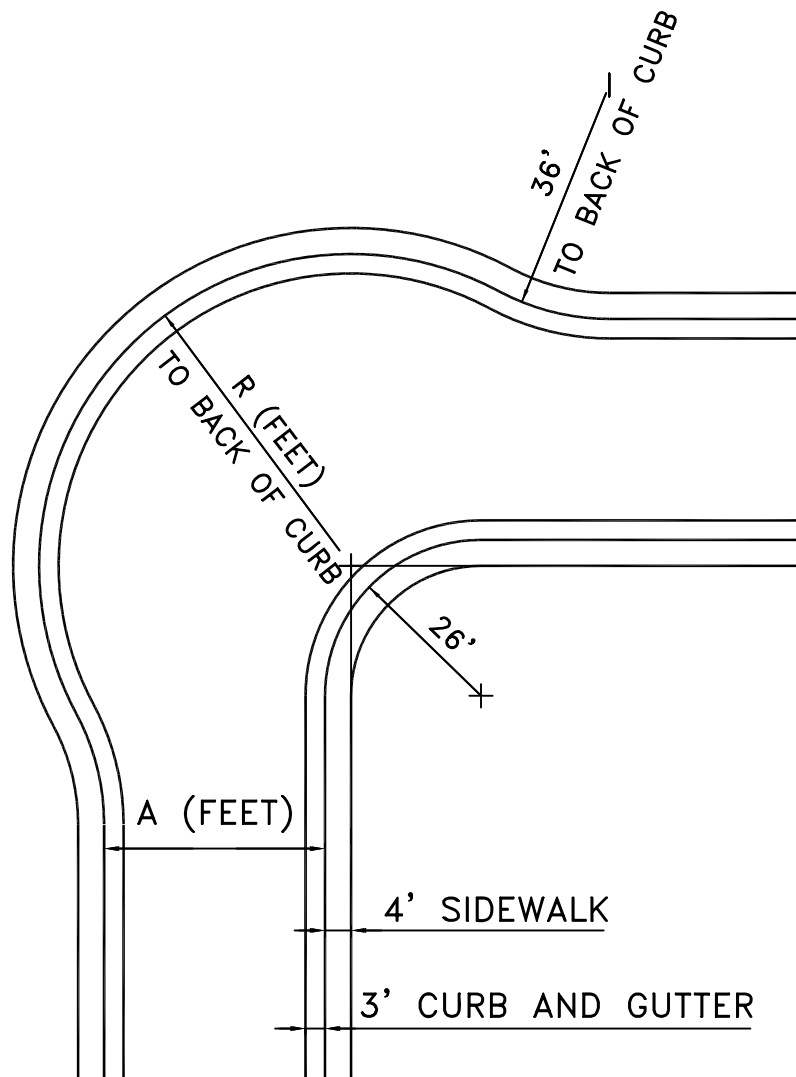


DEPARTMENT OF
PUBLIC WORKS

OFFSET CUL-DE-SAC
STREET

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-15



A (FEET)

34
38
40
48

R (FEET)

48
52
54
62

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

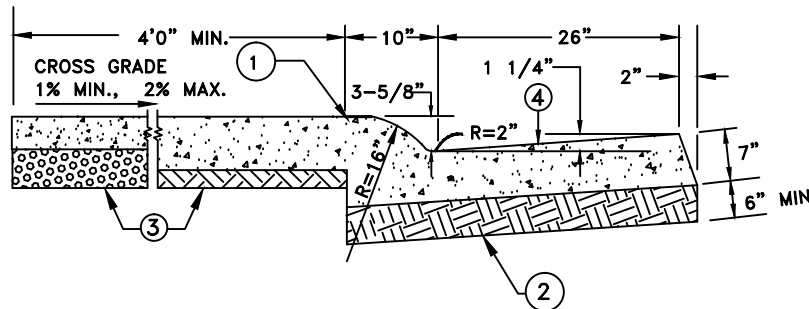
CITY OF
ROSEVILLE
CALIFORNIA

DEPARTMENT OF
PUBLIC WORKS

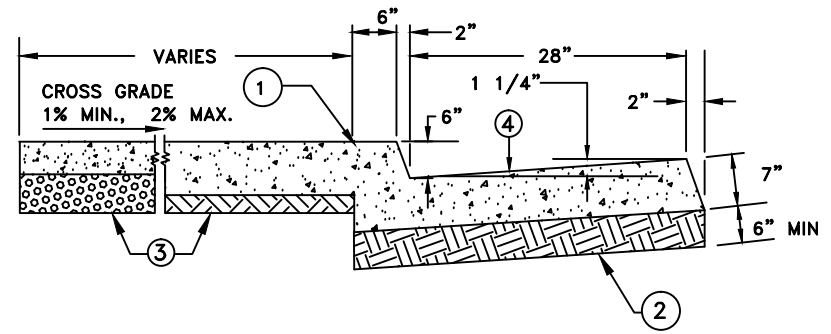
STANDARD ELBOW

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

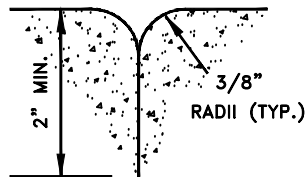
ST-16



TYPE 1
ROLLED CURB & GUTTER



TYPE 2
VERTICAL CURB & GUTTER
(OPTION 1)



TOOL JOINT
(TYP.)

SEE SECTION 71-4.C.3.
(CONSTRUCTION STANDARDS)

LEGEND:

1. SCORE MARK, 1/8" DEEP
2. SUBGRADE PROCESSED TO 95% RELATIVE COMPACTION.
3. ALL SIDEWALK HAS OPTION OF 4" CONCRETE ON 4" AGGREGATE BASE, IN LIEU OF 6" CONCRETE ON NATIVE.
4. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX, OR BE LESS THAN 4%.

NOTES:

- A. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
- B. SEE SECTION 71-4 C OF THE CITY CONSTRUCTION STANDARDS FOR FINISH AND JOINTS.
- C. ALL ADJOINING SIDEWALK, CURB AND GUTTER SHALL BE POURED MONOLITHIC.

Marc Stout

MARC STOUT
CITY ENGINEER

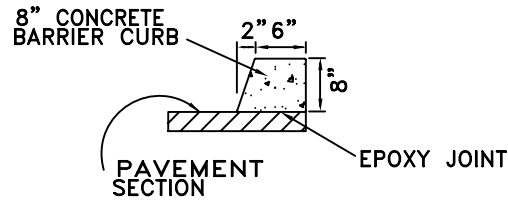


DEVELOPMENT SERVICES
DEPARTMENT

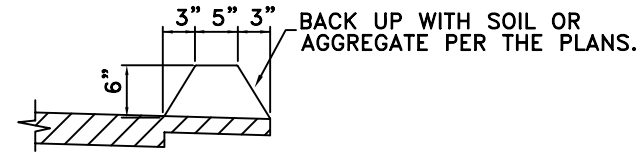
TYPE 1 AND 2 CURB AND
GUTTER WITH SIDEWALK

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

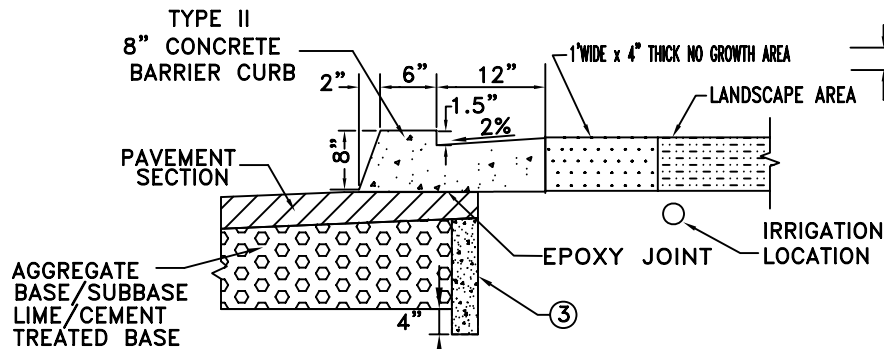
ST-17



TYPE 1 BARRIER CURB
(ADJACENT TO UNIRRIGATED AREAS)

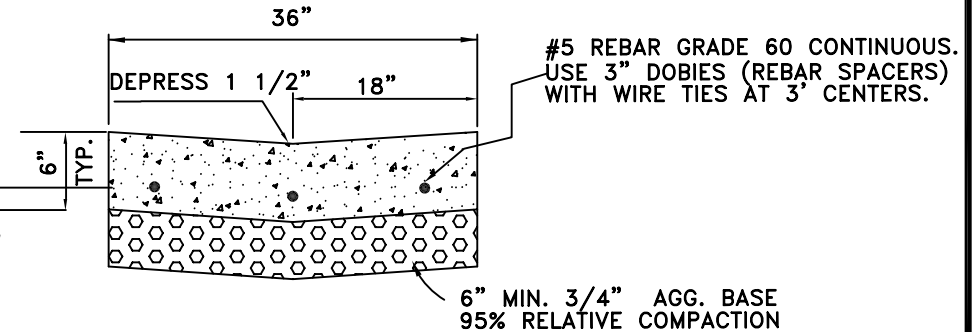


STATE "TYPE A" HIGH DIKE
(ASPHALT CONCRETE DIKE)



TYPE 2 BARRIER CURB
(ADJACENT TO IRRIGATED AREAS)

NOTE: CUTOFF WALL MAY EXTEND UP TO PAVEMENT SURFACE OR AS SHOWN ABOVE.



36 INCH VALLEY GUTTER
(ALLEYS ONLY)

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS UNLESS OTHERWISE NOTED.
2. TOOL JOINTS" SEE DETAIL ST-17.
3. 4" THICK CONCRETE SLURRY CUTOFF WALL REQUIRED ADJACENT TO TURFED MEDIANS, AS ALLOWED PER THE CITY'S WATER EFFICIENT LANDSCAPE ORDINANCE.

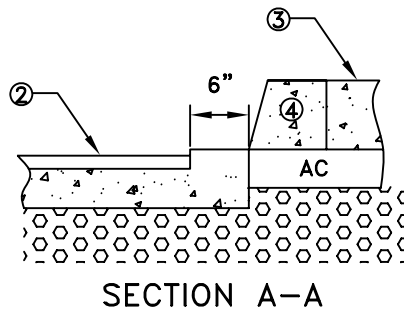
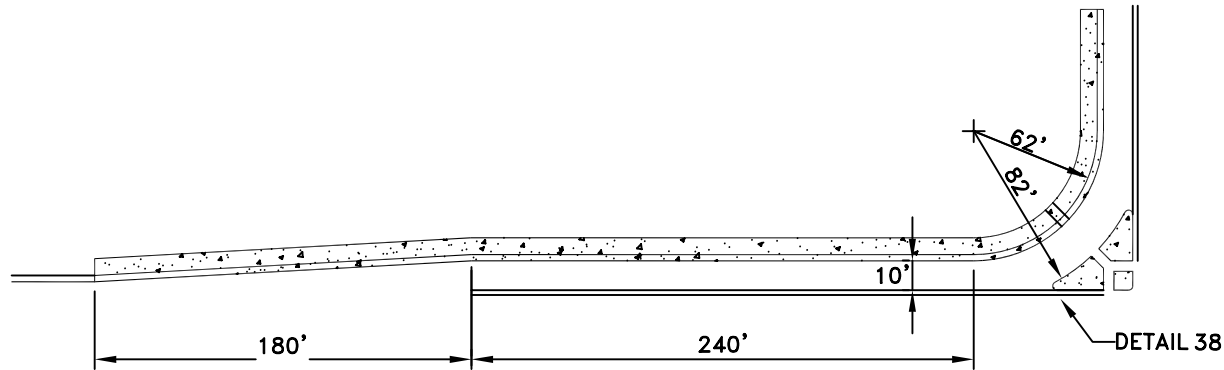


DEPARTMENT OF
PUBLIC WORKS

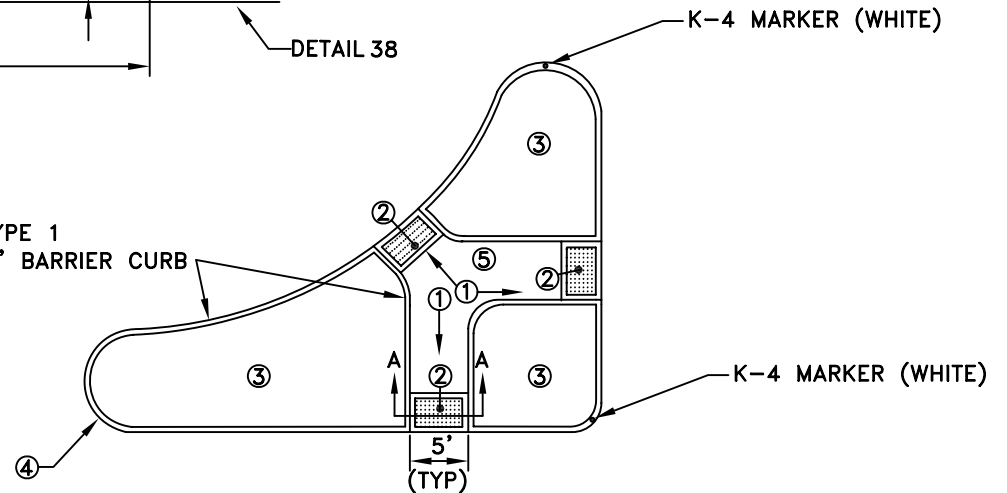
**BARRIER CURBS
AND
VALLEY GUTTERS**

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-18



TYPE 1
8" BARRIER CURB



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. 1% TO 2% SLOPE SHALL BE MAINTAINED.
2. 3' X 4' DETECTABLE WARNING PANEL PER SECTION 71-5.E. OF THE CITY OF ROSEVILLE CONSTRUCTION STANDARDS. FLAT SURFACES SHALL BE FLUSH WITH CONCRETE AND ADJACENT AC. CONCRETE BORDER AROUND PANEL SHALL BE 6" ADJACENT AC. (TYP)
3. "STAMPED CONCRETE" SEE DETAIL ST-37
4. FACE OF "TYPE 1"(ST-18) EIGHT INCH BARRIER CURB, PAVEMENT EDGE. (TYPICAL)
5. PLACE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
6. STRIPING DETAILS REFERENCE CALTRANS STANDRDS.



DEPARTMENT OF
PUBLIC WORKS

ACCELERATION LANE FOR
FREE RIGHTS

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

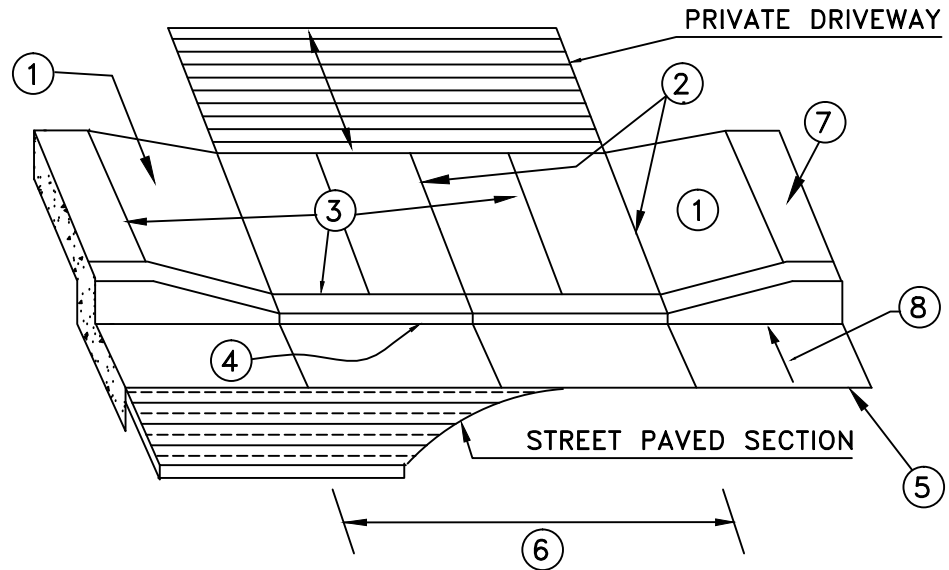
ST-19

LEGEND:

1. THE MAX. GRADE IS 5% IF LONGITUDINAL STREET GRADE ALLOWS. THE MAX. TRANSITION TO OBTAIN 5% IS 15 FEET. OTHERWISE, A MAX. GRADE OF 8.33% SHALL BE OBTAINED BETWEEN 15 AND 25 FEET. 25 FEET IS THE MAX. TRANSITION REQUIRED/ALLOWED, REGARDLESS OF LONGITUDINAL STREET GRADE.
2. "TOOL JOINT" SEE DETAIL ST-17.
3. SCORE MARKS EVERY 4 FEET FOR 4 FOOT SIDEWALK AND 5 FEET FOR 5 FOOT SIDEWALK ETC.
4. 1 INCH HIGH LIP AT 45 DEGREE BATTER.
5. "TYPE 2"(ST-17) CURB AND GUTTER.
6. DRIVEWAY WIDTH PER THE APPROVED PLAN. (MIN. 25',MAX 40' FOR COMMERCIAL 32' FOR RESIDENTIAL)
7. ADJACENT SIDEWALK.
8. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX.

NOTES:

- A. SIDEWALK CROSS GRADE THROUGH THE ENTIRE DRIVEWAY SHALL BE 1% MINIMUM, 2% MAXIMUM.
- B. FOR COMMERCIAL DRIVEWAY: SIDEWALK, APRON AND GUTTER PAN SHALL BE 8" THICK WITH NO. 4, GRADE 60 REBAR ON 18" CENTERS EACH WAY. USE 3" DOBIES (REBAR SPACERS) AT 3' INTERVALS. FOR RESIDENTIAL: WALK, APRON, AND GUTTER PAN SHALL BE 7" THICK NONREINFORCED. FOR COMMERCIAL AND RESIDENTIAL, SIDEWALK, APRON AND GUTTER PAN SHALL BE PLACED MONOLITHICALLY. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
- C. BASE FOR CONCRETE SHALL BE NATIVE SOIL OR CLASS 2, 3/4 INCH AGGREGATE BASE, EITHER PROCESSED 6 INCHES THICK TO 95% RELATIVE COMPACTION.
- D. SEE SECTION 71-4 C.6. OF THE CONSTRUCTION STANDARDS FOR AC PATCH ADJACENT TO GUTTER LIP.
- E. FROM 8 TO 20 FEET BACK OF SIDEWALK, RAISE PRIVATE PAVING/LANDSCAPING TO A MINIMUM HEIGHT OF THE HIGHEST TOP OF CURB ELEVATION AT THE DRIVEWAY.



Marc Stout

MARC STOUT
CITY ENGINEER



DEVELOPMENT SERVICES
DEPARTMENT

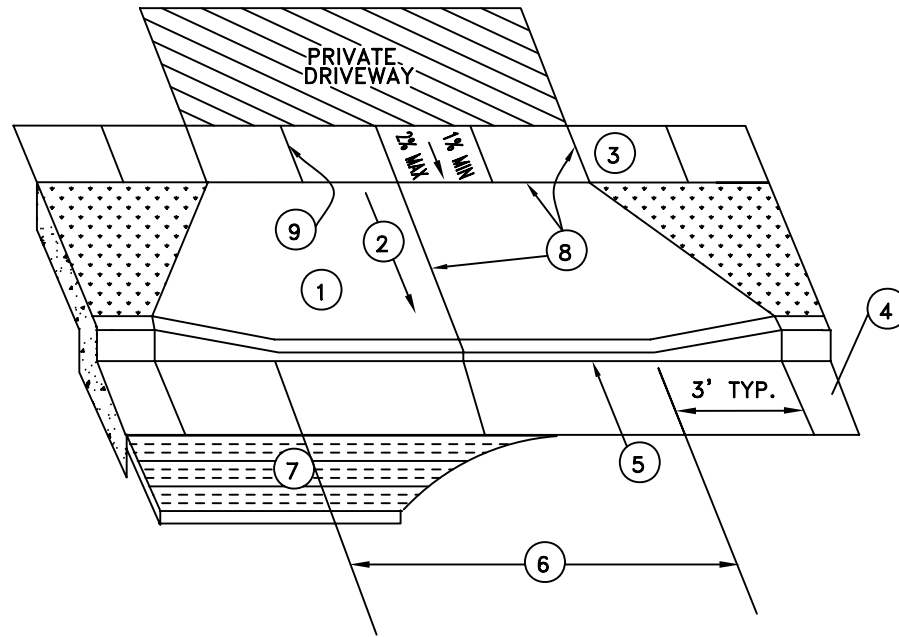
"TYPE S"
DRIVEWAY APRON

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

ST-20

NOTES:

1. FOR COMMERCIAL DRIVEWAY: SIDEWALK, APRON AND GUTTER PAN SHALL BE 8 INCHES THICK WITH NO. 4, GRADE 60 REBAR ON 18 INCH CENTERS EACH WAY. USE 3 INCH DOBIES (REBAR SPACERS) AT 3 FOOT INTERVALS. FOR RESIDENTIAL: WALK, APRON AND GUTTER PAN SHALL BE 7 INCHES THICK, NONREINFORCED. FOR COMMERCIAL AND RESIDENTIAL, SIDEWALK, APRON AND GUTTER PAN SHALL BE PLACED MONOLITHICALLY. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
2. STRAIGHT GRADE FROM SIDEWALK TO LIP AT FLOWLINE.
3. ADJACENT SIDEWALK: IF EXISTING SIDEWALK EXCEEDS 2% CROSS GRADE, REPLACE 5 FEET ADDITIONAL EXISTING AND TRANSITION TO ACCOMMODATE 2% MAXIMUM CROSS GRADE IN SIDEWALK WITHIN DRIVEWAY.
4. "TYPE 2"(ST-17) CURB AND GUTTER: IF EXISTING IS NOT "TYPE 2" SECTION, MATCH THE EXISTING GUTTER PAN UNLESS OTHERWISE REQUIRED PER THE APPROVED PLAN.
5. 1 INCH HIGH LIP AT 45 DEGREE BATTER.
6. DRIVEWAY WIDTH PER THE APPROVED PLAN. MINIMUM 25' MAXIMUM OF 40' FOR COMMERCIAL, 32' FOR RESIDENTIAL.
7. SEE SECTION 71-4 C.6. OF THE CONSTRUCTION STANDARDS FOR AC PATCH ADJACENT TO GUTTER LIP.
8. "TOOL JOINT" SEE DETAIL ST-17.
9. SCORE MARKS EVERY FOUR FEET FOR FOUR FOOT SIDEWALK AND FIVE FEET FOR FIVE FOOT SIDEWALK, ETC.
10. SUBGRADE BASE FOR CONCRETE WITHIN CITY RIGHT-OF-WAY SHALL BE 6 INCHES OF NATIVE SOIL, OR CLASS II, 3/4 INCH AGGREGATE BASE, BOTH AT 95% RELATIVE COMPACTION.



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



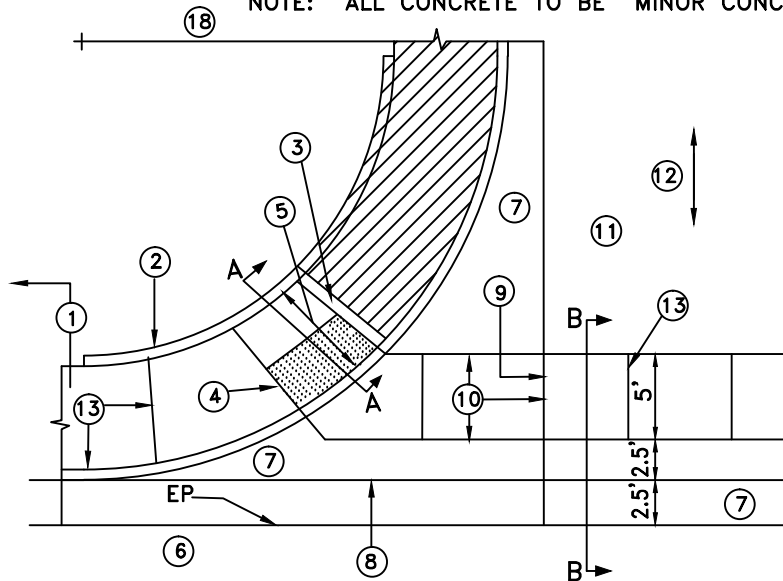
DEPARTMENT OF
PUBLIC WORKS

"TYPE D"
DRIVEWAY APRON

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

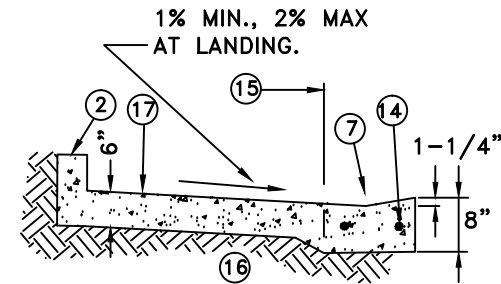
ST-21

NOTE: ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS

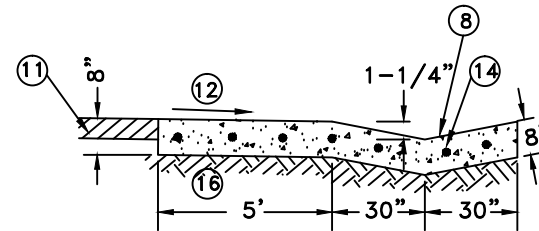


LEGEND

1. "TYPE 2"(ST-17) CURB AND GUTTER WITH SIDEWALK OUTSIDE DRIVEWAY AREA
2. RETAINING CURB AT BACK OF WALK, HEIGHT VARIES.
3. PLACE RAMP IF SIDEWALK EXTENDS ON SITE (CROSSHATCHED AREA); EXTEND RETAINING CURB IF NO ON-SITE SIDEWALK. (AT #3 ARROW)
4. CASE C RAMP WITH TRUNCATED DOME PANEL; NUMBER 4 LINE COINCIDES WITH BACK OF V GUTTER (TYP). SLOPE TOP OF CURB 1/2 INCH AT OPENING. NO LIP. SEE SECTION 71-4 C.4. (CONSTRUCTION STANDARDS).
5. LANDING DEPTH IS 6 FEET DEEP. TRANSITION TO ADJACENT WALK WIDTH FROM LANDING TO CURB RETURN.
6. STREET PAVING.
7. DRIVEWAY 8 INCHES THICK PER SECTION B-B, SIDEWALK 6 INCHES PER SECTION A-A.
8. GUTTER FLOW LINE.
9. PLACE GUTTER, WALKS AND CURBS MONOLITHICALLY. POUR MAY BE SEPARATED WITH COLD JOINT AT NUMBER 9 LINE.
10. "TOOL JOINT" SEE DETAIL ST-17.
11. PRIVATE PAVING PER APPROVED PLANS.
12. MAXIMUM GRADE OF 2%, MINIMUM GRADE OF 1%. THESE GRADE REQUIREMENTS SHALL EXTEND A MINIMUM DISTANCE OF 15 FEET BACK OF V-GUTTER.
13. SCORE MARKS, TYPICAL, 1/8 INCH DEEP.
14. NO. 4 REBAR, 18 INCHES O.C. EACH WAY, 3 INCH DOBIES WITH WIRE TIES AT 3 FOOT INTERVALS, EACH WAY.
15. EXTENDED CURB FACE.
16. IN DRIVEWAY, CLASS B, 3/4 INCH AGGREGATE BASE OR NATIVE SUBGRADE; EITHER PROCESSED TO 95% RELATIVE COMPACTION. UNDER SIDEWALK, NATIVE SOIL, MINIMUM 6 INCH, PROCESSED TO 95% RELATIVE COMPACTION AGGREGATE BASE THICKNESS SHALL BE AT THE CONTRACTOR'S DISCRETION.
17. ALL SIDEWALK 1% MINIMUM, 2% MAXIMUM CROSS GRADE TOWARD STREET.
18. STANDARD RADIUS IS 20- FEET. WHERE DELIVERY TRUCKS WILL ACCESS DRIVEWAYS RADIUS WILL BE INCREASED TO 30- FEET.



SECTION A-A



SECTION B-B

Marc Stout

MARC STOUT
CITY ENGINEER

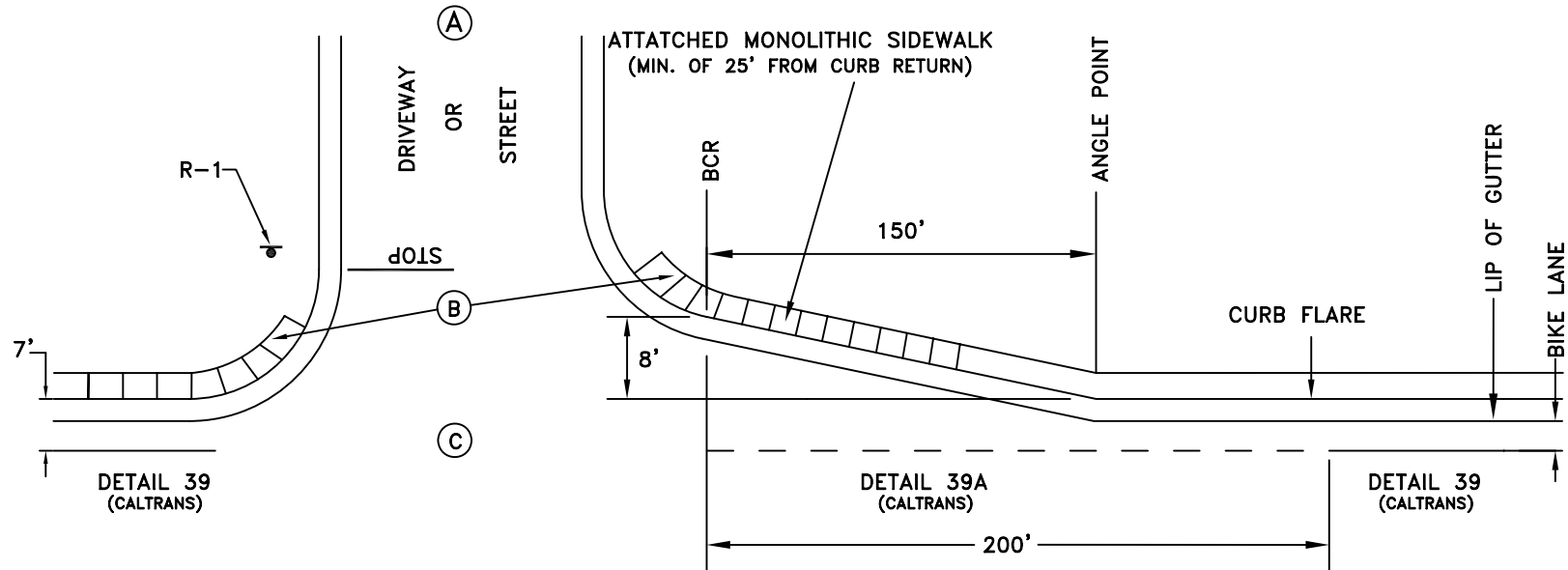
CITY OF
ROSEVILLE
CALIFORNIA

DEVELOPMENT SERVICES
DEPARTMENT

"TYPE A-7"
DRIVEWAY

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

ST-22



LEGEND

- A. ON-SITE PAVEMENT
- B. CURB RAMPS AND SIDEWALK
- C. ASPHALT CONCRETE PAVEMENT PER DESIGN STANDARDS
- D. BCR - BEGINNING OF CURB RETURN

NOTES:

1. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS
2. DRIVEWAYS WHERE THE MEDIAN IS NOT BROKEN SHALL HAVE THE DETAIL 39 CONTINUE THROUGH THE CURB FLARE AND DRIVEWAY.
3. SIGN DETAIL NUMBERS REFERENCE 2012 CALIFORNIA MUTCD.
4. STOP BAR TO BE PLACED AT BEGINNING OF CURB RETURN.

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

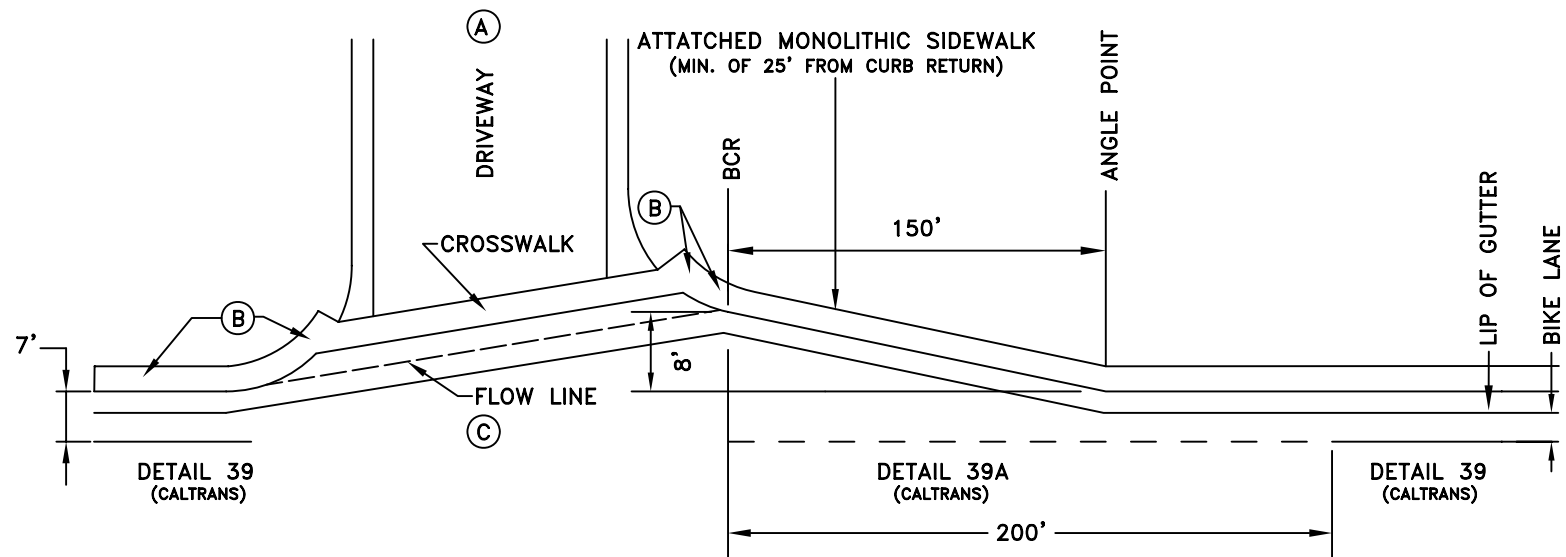


DEPARTMENT OF
PUBLIC WORKS

RIGHT TURN CURB FLARE

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-23



LEGEND

- A. ON-SITE PAVEMENT
- B. CURB RAMPS AND SIDEWALK
- C. ASPHALT CONCRETE PAVEMENT PER DESIGN STANDARDS
- D. BCR - BEGINNING OF CURB RETURN

NOTES:

1. WHEN A CURB FLARE IS PROVIDED AT AN A-7 DRIVEWAY, THE FLOWLINE SHALL BE CONSTRUCTED WITH A CONCRETE VALLEY GUTTER EXTENDING FROM THE OUTSIDE END OF EACH CURB RETURN. DRAIN INLETS MAY BE REQUIRED ON DRIVEWAY LEG TO INTERCEPT WATER LEAVING THE SITE.
2. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS.
3. FOR "A-7 DRIVEWAY" SEE DETAIL ST-23.
4. DRIVEWAYS WHERE THE MEDIAN IS NOT BROKEN SHALL HAVE THE DETAIL 39 CONTINUE THROUGH THE CURB FLARE AND DRIVEWAY.

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

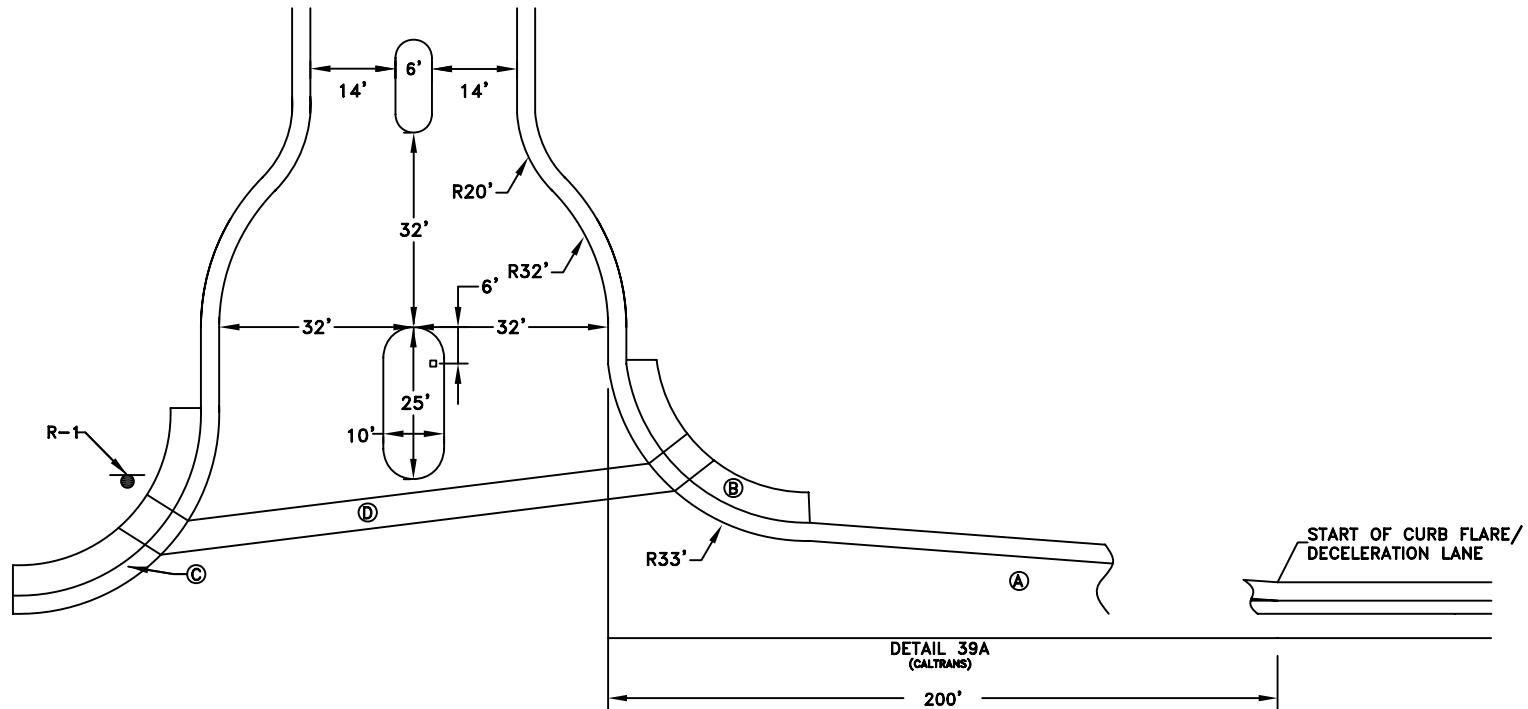


DEPARTMENT OF
PUBLIC WORKS

RIGHT TURN CURB FLARE (WITH "TYPE A-7" DRIVEWAY)

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-24



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

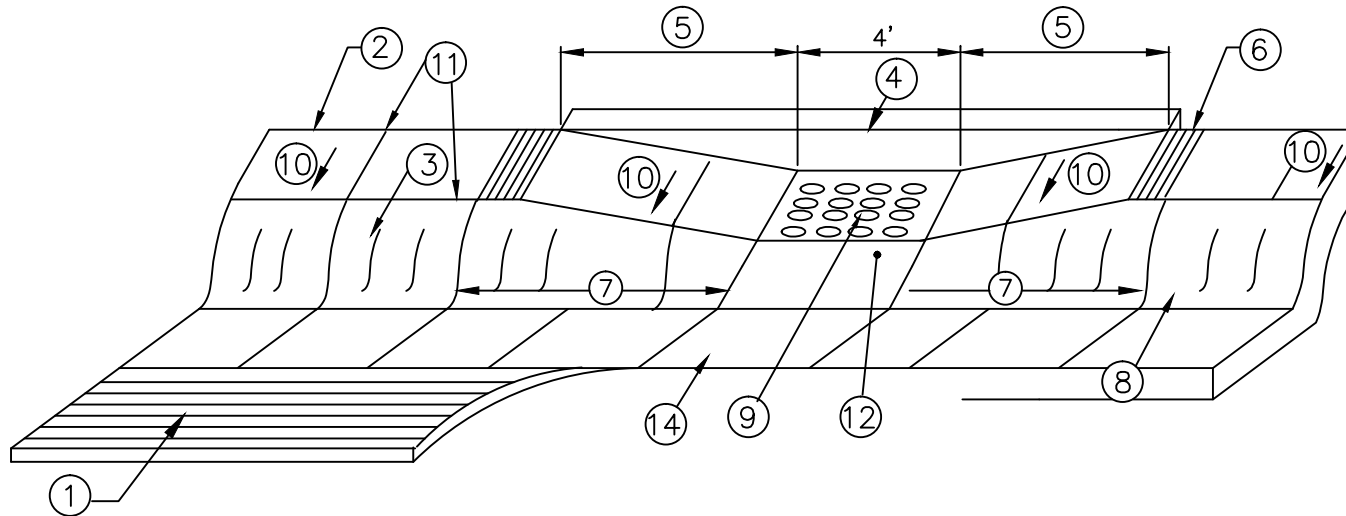
LEGEND

- A. STANDARD CURB FLARE OR DECELERATION LANE SEE DETAIL ST-23
- B. SIDEWALK WIDTH PER PLANS, 5 FOOT MINIMUM
- C. CURB AND GUTTER TO BE "TYPE 1" ST-17.
- D. PLACE CROSS WALK

NOTES

1. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS
2. SIGN DETAIL NUMBERS REFERENCE 2006 CALIFORNIA MUTCD
3. DRIVEWAYS WHERE THE MEDIAN IS NOT BROKEN SHALL HAVE THE DETAIL 39 CONTINUE THROUGH THE CURB FLARE AND DRIVEWAY.

	DEPARTMENT OF PUBLIC WORKS
PRIVATE GATED ENTRANCE	
SCALE: NONE REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	ST-25



NOTES:

1. STREET PAVEMENT.
2. STANDARD SIDEWALK WIDTH IS 5 FEET FOR COMMERCIAL AND 4 FEET FOR RESIDENTIAL (BACK OF WALK TO BACK OF CURB FOR BOTH UNLESS SHOWN OTHERWISE ON PLANS).
3. TOP FACE OF CURB, STANDARD 6 INCH HIGH FOR COMMERCIAL, 3-5/8 INCH FOR RESIDENTIAL.
4. 6 INCH WIDE RETAINING CURB, HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE. POUR MONOLITHIC WITH SIDEWALK; MINIMUM DEPTH SECTION FLUSH WITH BOTTOM OF SIDEWALK.
5. THE MAXIMUM 8.33%. FOR CASE C RAMPS, ON STEEPER GRADES WHERE 8.33% CANNOT BE ACHIEVED, 25 FEET IS THE MAXIMUM LENGTH TRANSITION REQUIRED.
6. GROOVES PER STATE STANDARD, TYP.
7. "TOOL JOINT" SEE DETAIL ST-13.
8. GUTTER PAN, FLOW LINE.
9. TRUNCATED DOMES: SEE SECTION 71-4 C.2. AND 71-5 OF THE CONSTRUCTION STANDARDS FOR REQUIRED PRODUCT OR APPROVED EQUAL INFORMATION. 1% TO 2% GRADE TO STREET.
10. CROSS-GRADE SHALL BE 1% MIN, 2% MAX. (LANDING 1% MIN. TO STREET). PLEASE REFER TO SECTION 71-4.C.4.
11. SCORE MARK TYPICAL.
12. ACROSS THE 4 FOOT WIDTH OF THE CURB RAMP OPENING, THE TOP OF CURB SHALL BE SLOPED UP FROM THE FLOWLINE TO THE BACK OF RAMP LANDING 1% TO 2% SLOPE.
13. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
14. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX.

Marc Stout

MARC STOUT
CITY ENGINEER

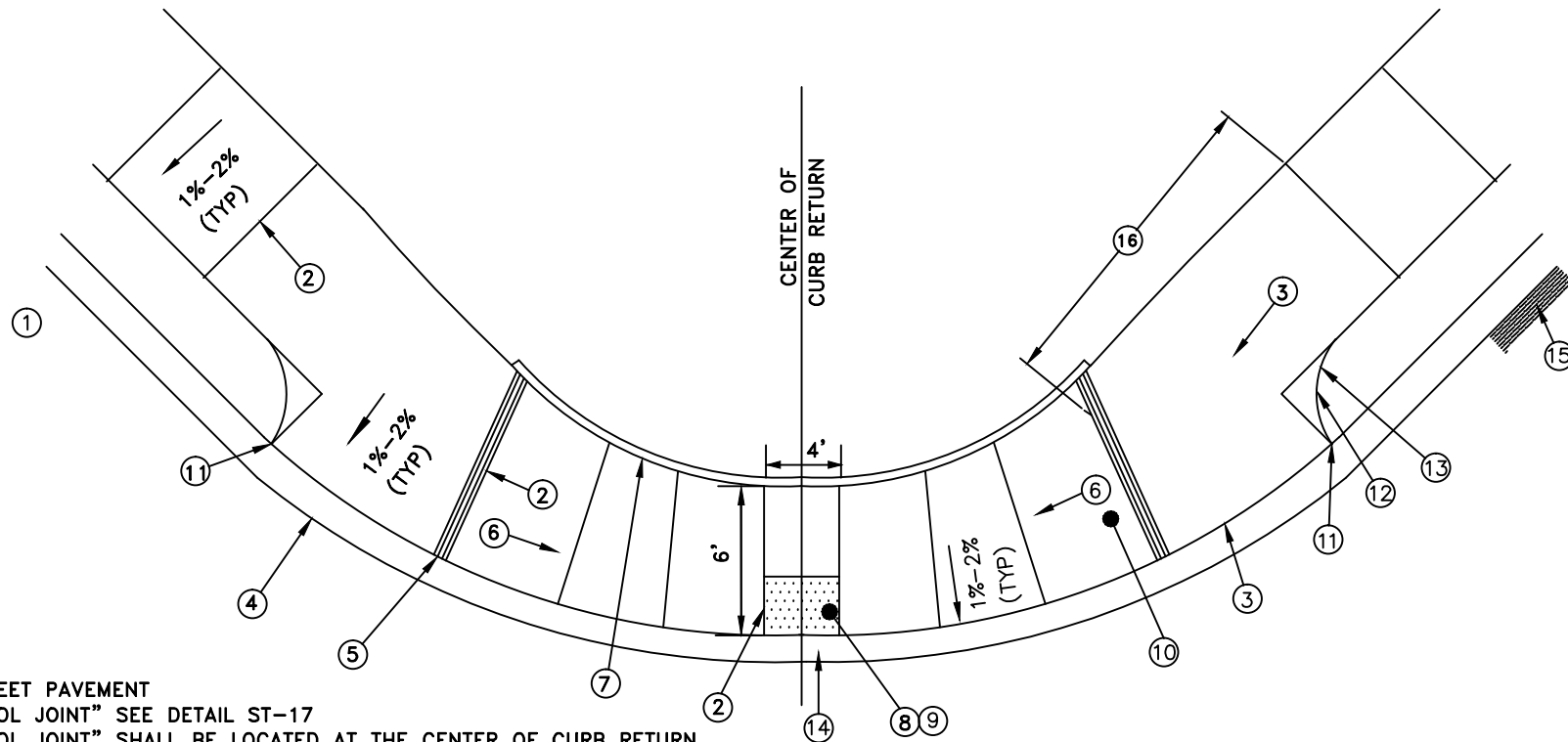


DEVELOPMENT SERVICES
DEPARTMENT

CASE "C" PEDESTRIAN CURB RAMP ATTACHED SIDEWALK

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

ST-26



NOTES:

1. STREET PAVEMENT
2. "TOOL JOINT" SEE DETAIL ST-17
3. "TOOL JOINT" SHALL BE LOCATED AT THE CENTER OF CURB RETURN
4. "TYPE 2"(ST-17) CURB AND GUTTER
5. GROOVES PER CALTRANS STANDARD PLAN A88A (TYP)
6. THE MAXIMUM IS 8.33%. FOR "CASE C" RAMPS, ON STEEPER GRADES WHERE 8.33% CANNOT BE ACHIEVED, 25 FEET IS THE MAXIMUM LENGTH TRANSITION REQUIRED.
7. 6 INCH WIDE RETAINING CURB, HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE. POUR MONOLITHIC WITH SIDEWALK; MINIMUM DEPTH SECTION FLUSH WITH BOTTOM OF SIDEWALK.
8. DETECTABLE WARNING PANEL, TRUNCATED DOMES"(ST-35) SEE SECTIONS 71-4, C.2, AND 71-5 OF THE CONSTRUCTION STANDARDS. 1% TO 2% GRADE TO FLOW LINE.
9. SLOPE TOP OF CURB DOWN TO FLOWLINE 1% TO 2% FOR TYPE 2"(ST-17) CURB AND GUTTER AT RAMP OPENING; NO LIP. SEE SECTION 71-4 C.40 F THE CONSTRUCTION STANDARDS.
10. TRANSITION FROM 6 FOOT DEEP OPENING TO MEANDERING WALK WIDTH.
11. TERMINATE PLANTER RADIUS AT CURB RETURN. RADIUS SHALL MATCH PLANTER WIDTH.
12. RADIUS OR SQUARE AS SHOWN ON PLANS. PLANTER WIDTH VARIES.
13. SIDEWALK TO HAVE EITHER THICKNESS OF 6" ON COMPACTED NATIVE SOIL OR 4" THICKNESS WITH 4" COMPACTED AGGREGATE BASE.
14. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX. IN PATH OF TRAVEL.
15. SEE SECTION 71-4 C.6. OF CONSTRUCTION STANDARDS FOR AC PATCH ADJACENT TO GUTTER LIP.
16. REVERSE CURVE TRANSITION FROM TOP OF RAMP TO BACK OF MEANDERING SIDEWALK.

Marc Stout

MARC STOUT
CITY ENGINEER

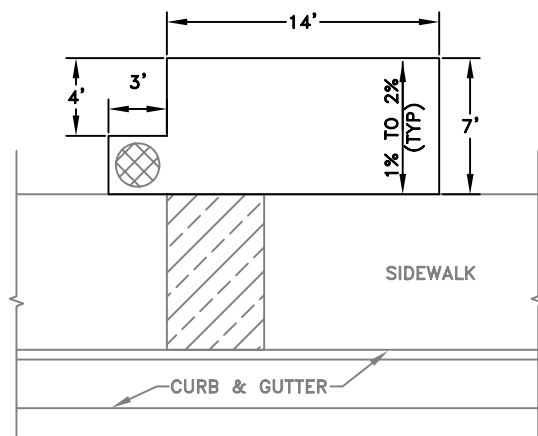


DEVELOPMENT SERVICES
DEPARTMENT

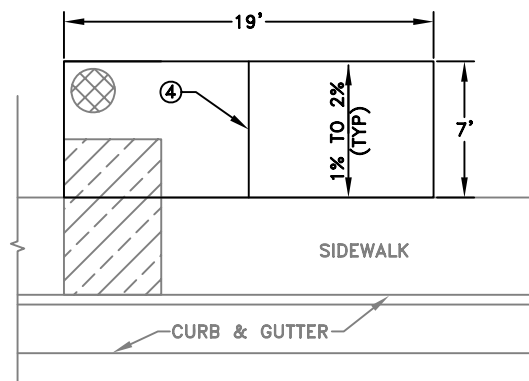
**CASE "C" PEDESTRIAN CURB RAMP
AT CURB RETURN
DETACHED SIDEWALK**

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

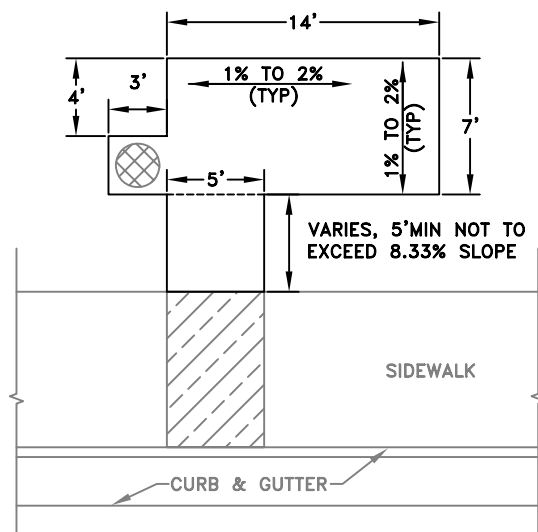
ST-27



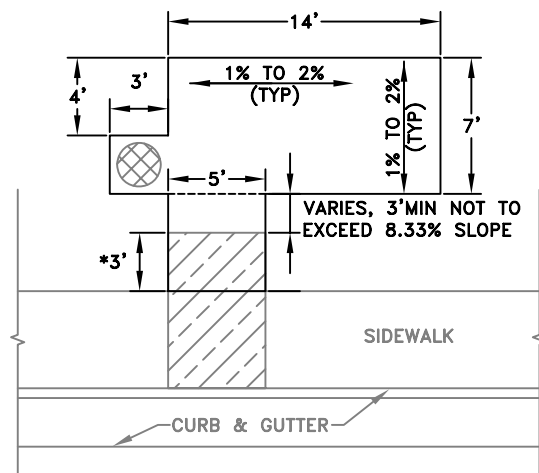
STREET GRADE $\leq$ 2%
8' SIDEWALK



STREET GRADE $\leq$ 2%
5' SIDEWALK



STREET GRADE $>$ 2%
8' SIDEWALK



STREET GRADE $>$ 2%
5' SIDEWALK

NOTES:

1. ALL CONCRETE SLABS SHALL BE 6 INCHES THICK, "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS. SIX INCHES OF SUBGRADE SHALL BE PROCESSED TO 95% RELATIVE COMPACTION.
2. FOR APPROVED BUS SHELTER STRUCTURES, SEE "CITY OF ROSEVILLE BUS SHELTER REQUIREMENTS" SHEET, LATEST EDITION, ALTERNATIVE TRANSPORTATION DIVISION, PUBLIC WORKS DEPARTMENT.
3. WHEN CONCRETE SLAB IS POURED SEPARATELY TO EXISTING SIDEWALK SLAB SHALL BE DOWELED PER CITY STANDARDS.
4. "TOOL JOINT" SEE DETAIL ST-17
5. PROVIDE A 3 FOOT CLEAR WORKING SPACE AROUND THE SHELTER PAD. NO SLOPES GREATER THAN 2% WILL BE ALLOWED WITHIN THE 3 FOOT CLEAR AREA. A RETAINING WALL MAY BE REQUIRED TO MAINTAIN THE 2% MAXIMUM GRADE. ONLY TURF OR LOW GROWTH GROUND COVER LESS THAN 4 INCHES IN HEIGHT AND SUITABLE FOR WALKING ON ARE PERMITTED WITH THE CLEAR AREA.
6. REFERENCE ST-48 AND ST-49 FOR LOCATION OF BUS SHELTER PAD.

LEGEND:

- * FROM BACK OF SIDEWALK, FIRST 3' SLAB OFFSET TO MATCH SIDEWALK SLOPE, REMAINING OFFSET SLAB TO WARP TO CONFORM TO BUS SHELTER PAD.



AREA FOR TRASH RECEPTACLE



8'x5' MINIMUM ADA LANDING PAD PER CITY ADA TRANSITION PLAN.

RHON HERNDON
PUBLIC WORKS DIRECTOR

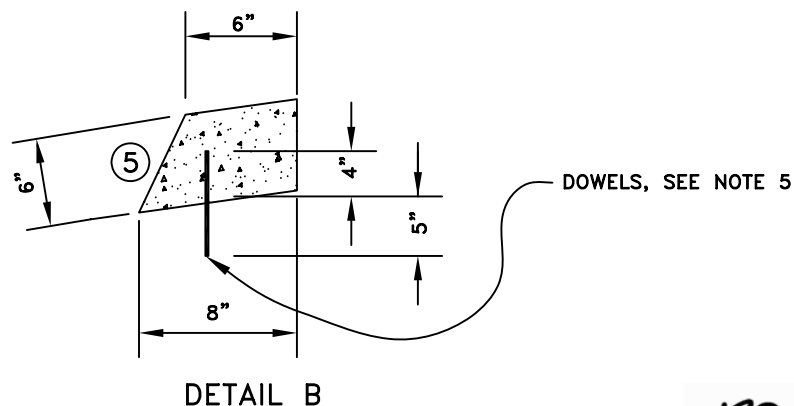
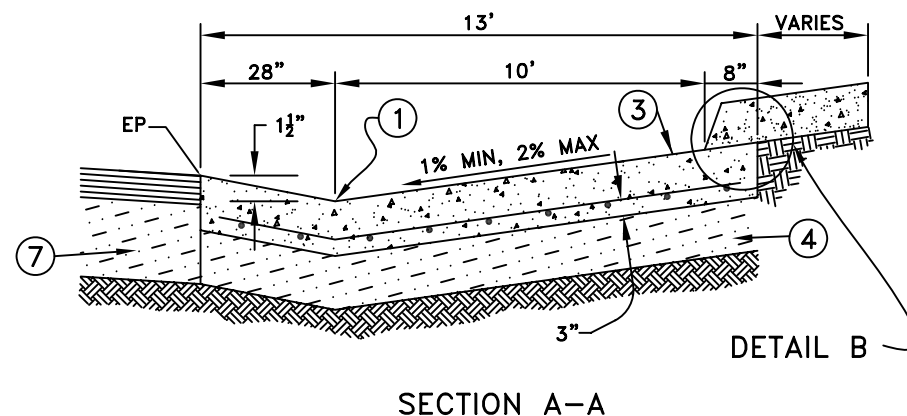
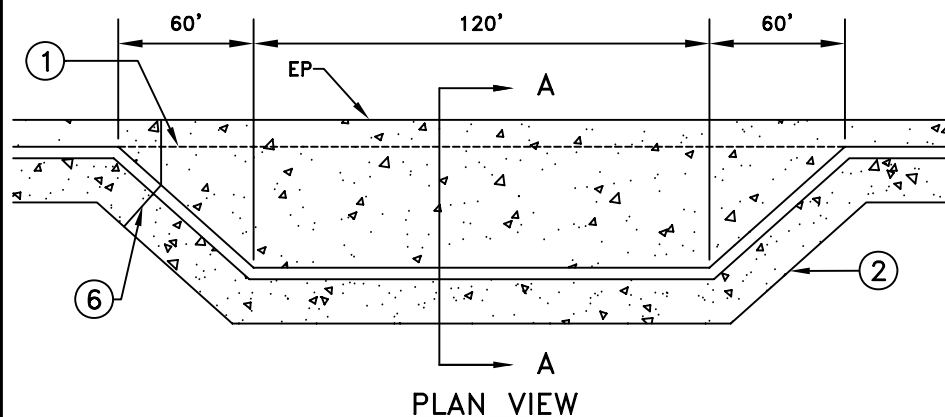


DEPARTMENT OF
PUBLIC WORKS

BUS STOP SHELTER PAD

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-28



NOTES:

1. GUTTER FLOWLINE.
2. SIDEWALK AND CURB.
3. CONCRETE SHALL BE EIGHT INCHES THICK WITH #4, GRADE 60 REBAR AT 18 INCH CENTERS EACH WAY. USE THREE INCH DOBIES (REBAR SPACERS WITH WIRE TIES). CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS, ALL FINISH SHALL BE MEDIUM BROOM
4. PLACE SIX INCHES OF 3/4 INCH AGGREGATE BASE AT 95% RELATIVE COMPACTION. THE TOP SIX INCHES OF SUBGRADE SHALL BE PROCESSED TO 95% RELATIVE COMPACTION. THE TOP SIX INCHES OF SIDEWALK SUBGRADE SHALL BE PROCESSED TO 95% RELATIVE COMPACTION PER THESE CONSTRUCTION STANDARDS.
5. THE SLAB FOR THE BUS TURNOUT MAY BE PLACED MONOLITHICALLY WITH THE CURB AND SIDEWALK (PREFERRED). IF CONCRETE IS PLACED WITH A COLD JOINT BETWEEN THE BOTTOM OF THE CURB AND THE TURNOUT SLAB, THEN THE CURB SHALL BE DOWELED (WET SET) TO THE SLAB WITH #4, GRADE 60 REBAR AT FOUR FOOT CENTERS. CURB SHALL ALSO BE EPOXYED TO THE SLAB. SIDEWALK SHALL CONFORM TO SECTION 71 OF THE CONSTRUCTION STANDARDS.
6. PLACE 2 INCH DEEP TOOL JOINTS AT 12 FOOT CENTERS, PERPENDICULAR TO THE LIP OF GUTTER IN THE TURNOUT SLAB AND EXTENDED PERPENDICULAR TO THE FACE OF CURB IN THE CURB AND SIDEWALK. SEE DETAIL ST-17.
7. EXISTING STRUCTURAL SECTION OR PER PLANS.

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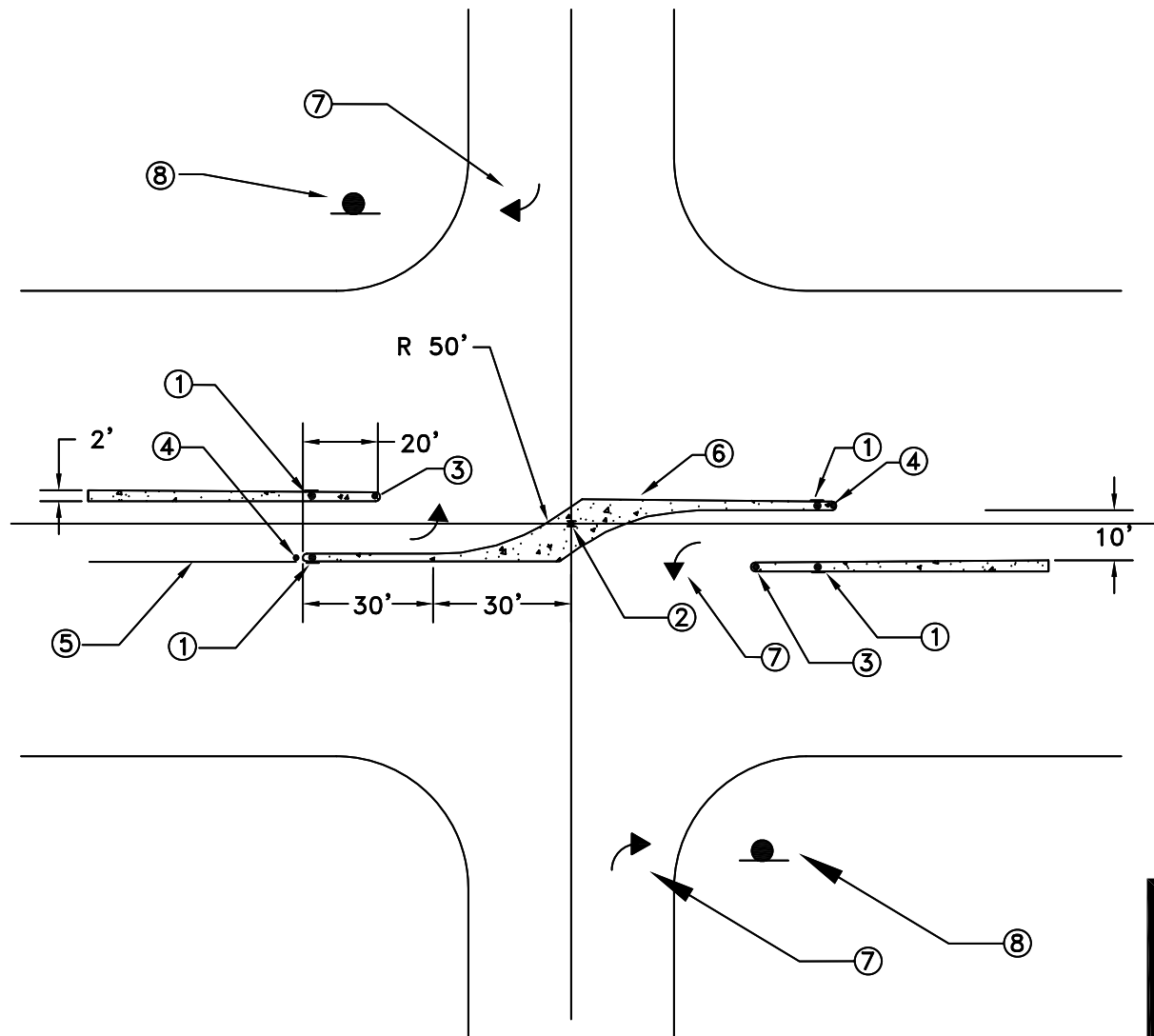
CITY OF
ROSEVILLE
CALIFORNIA

DEPARTMENT OF
PUBLIC WORKS

**BUS TURNOUT
CONCRETE SLAB**

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-29



NOTES:

1. PLACE LOW MOUNTED R-96 (TYP) AT INTERSECTIONS OF PUBLIC STREETS. NOT REQUIRED FOR PRIVATE OF PUBLIC STREETS.
2. PLACE TWO (2) R10(R) ON ONE POLE
3. PLACE YELLOW SUPERDUCK (TYP)
4. PLACE WHITE SUPERDUCK (TYP)
5. CALTRANS DETAIL 38 (TYP)
6. INSTALL DETAIL 26 MARKINGS ALONG RAISED MEDIAN 4 INCH OFF EDGE OF CURB.
7. TYPE III PAVEMENT ARROW (TYP)
8. PLACE ONE(1) R41(R) ON POLE
9. SIGN DETAIL NUMBERS REFERENCE 2012 CALIFORNIA MUTCD.

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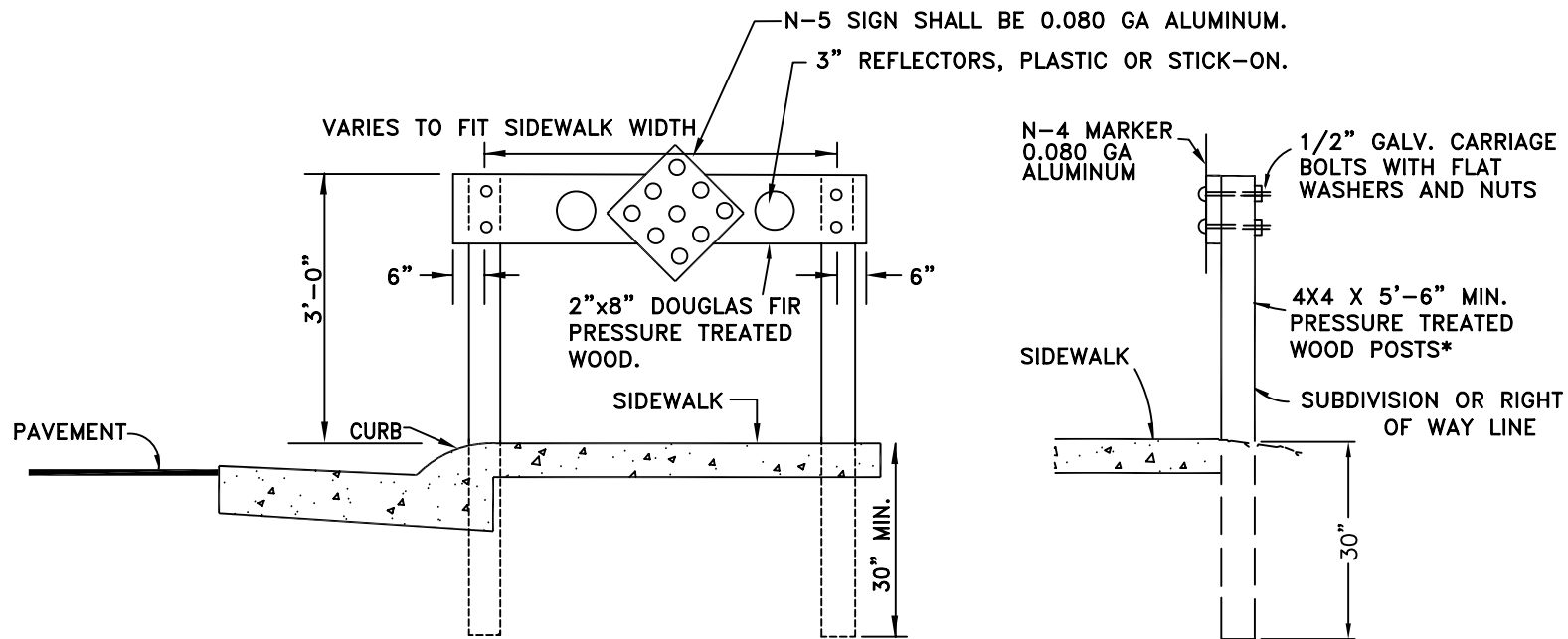


DEPARTMENT OF
PUBLIC WORKS

GULL WING DESIGN

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-30



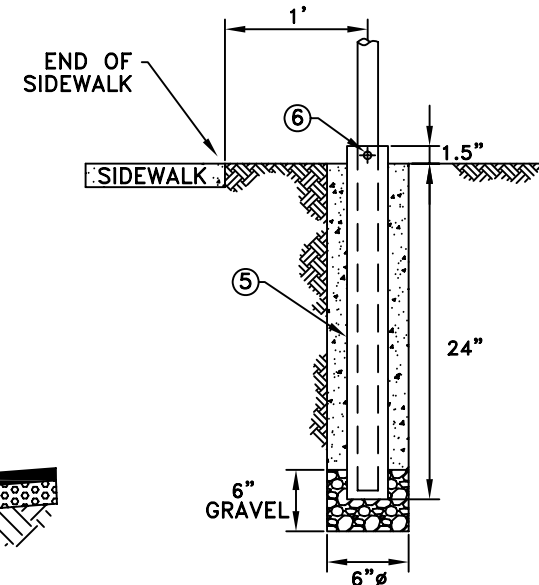
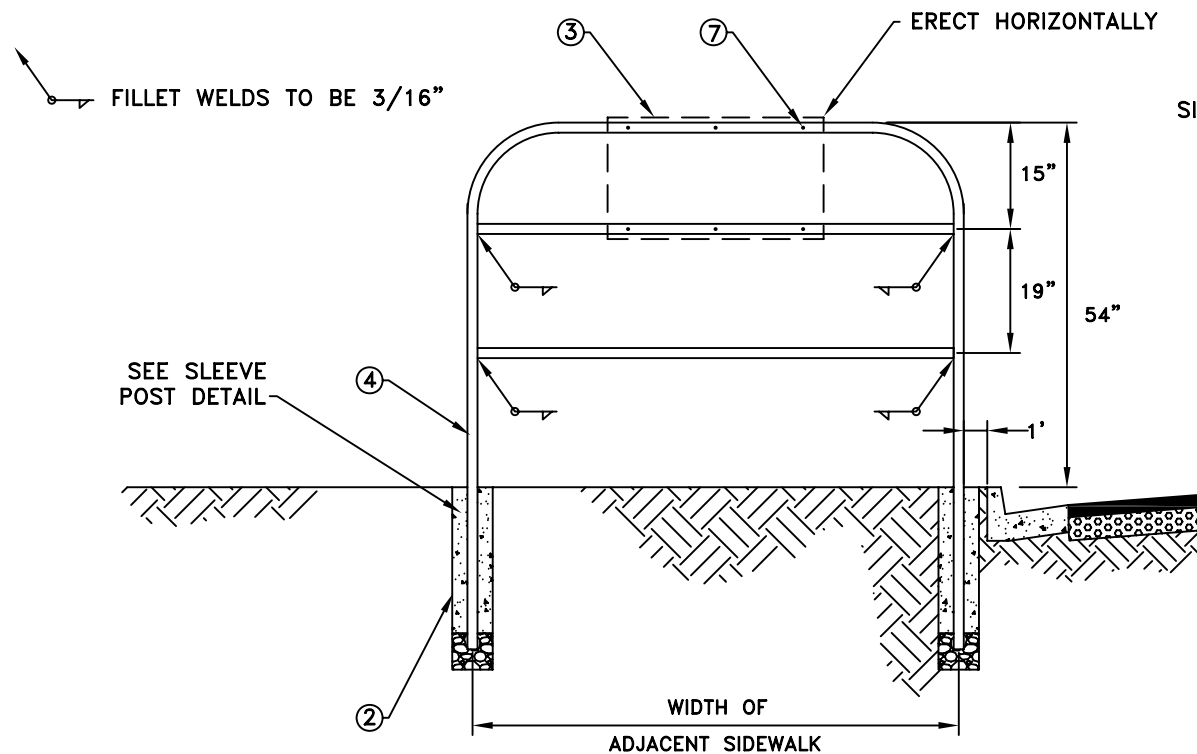
RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. SIDEWALK BARRICADES SHALL BE ERECTED WHERE SATISFACTORY PROVISIONS CANNOT BE MADE FOR PEDESTRIAN TO CONTINUE BEYOND THE TERMINUS OF SIDEWALK.
2. ALL EXPOSED WOOD SURFACES SHALL BE PAINTED WITH TWO (2) COATS OF WHITE PAINT CONFORMING TO SECTION 91-3.02 OF STATE SPECIFICATIONS.

	DEPARTMENT OF PUBLIC WORKS
TEMPORARY SIDEWALK BARRICADE	
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	ST-31



SLEEVE POST DETAIL

NOTES:

1. SIDEWALK BARRICADES SHALL BE PLACED ADJACENT TO BACK OF CURB. SIDEWALK SHALL BE PLACED ADJACENT TO CURB, AND CENTERED ON SIDEWALK WHEN SIDEWALK IS DETACHED FROM CURBS.
2. CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
3. PLACE A R5-10c SIGN (SIGN DETAILS REFERENCE 2012 CALIFORNIA MUTCD).
4. USE 1.5" DIAMETER NPS, GALVANIZED STANDARD PIPE
5. STEEL SLEEVE TO BE CONSTRUCTED WITH A 1/10" LARGER DIAMETER THEN POST. WALL THICKNESS OF SLEEVE TO BE SAME AS POST OR LARGER.
6. 3/8" DIAMETER GALVANIZED BOLT, WITH NUT AND WASHER. DEFORM THREADS (TYP)
7. DRILL 1/2" DIAMETERS HOLES. TOTAL OF 6
8. ALL SURFACES SHALL BE PAINTED WITH TWO COATS OF WHITE PAINT CONFORMING TO SECTION 91-3.02 OF THE STATE SPECIFICATIONS.

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PUBLIC WORKS DIRECTOR

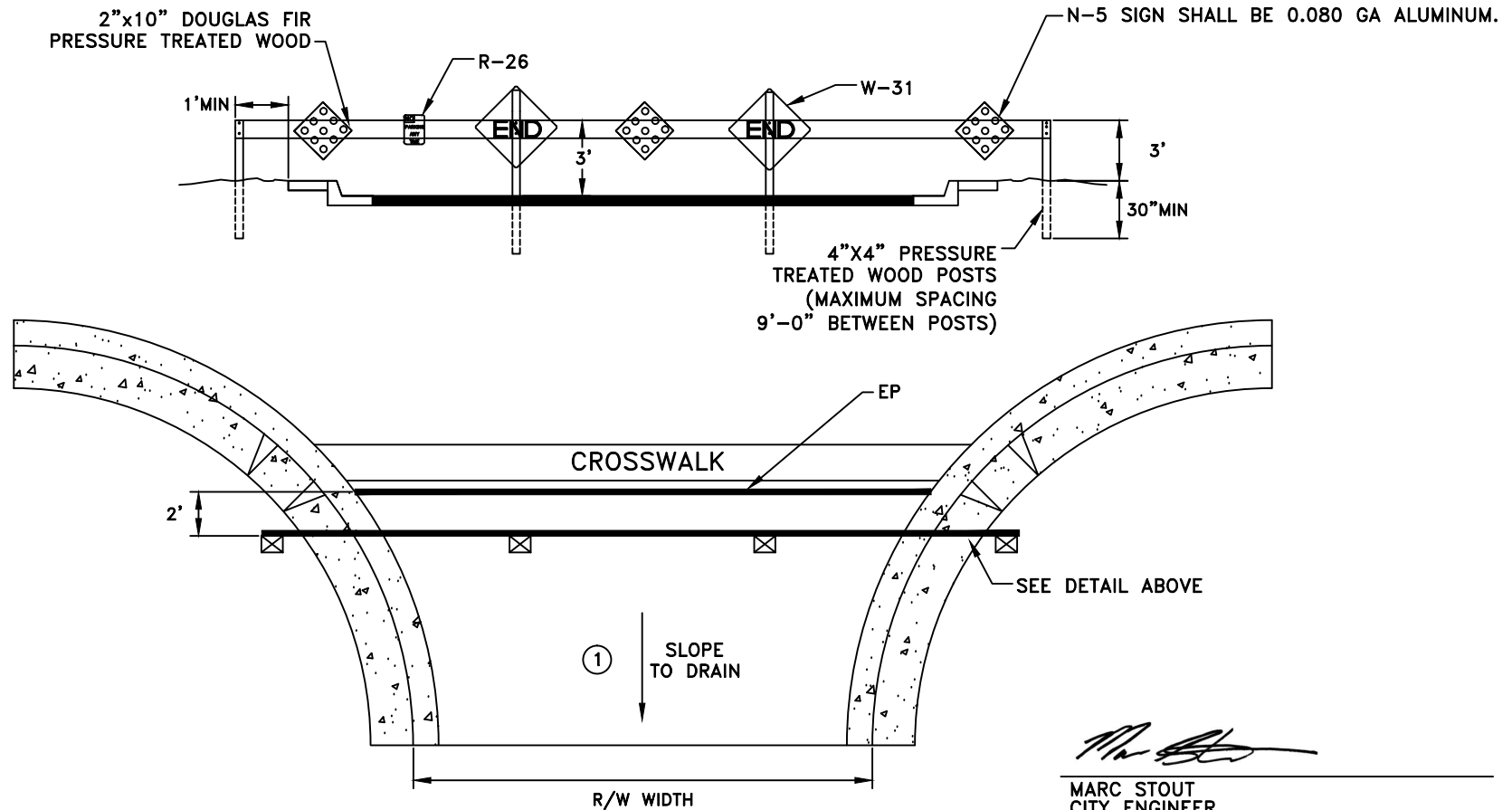


DEPARTMENT OF
PUBLIC WORKS

PEDESTRIAN BARRICADE

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-32



NOTES:

1. ASPHALT BASE MATERIAL BACKFILLED TO 90% RELATIVE COMPACTION.
2. SIGN DETAIL NUMBERS REFERENCE 2012 CALIFORNIA MUTCD.
3. ALL EXPOSED SURFACES SHALL BE PAINTED WITH TWO COATS OF WHITE PAINT CONFORMING TO SECTION 91-3.02 OF THE STATE SPECIFICATIONS.
4. ALL FASTENED POINTS SHALL USE 1/2" DIAMETER GALVANIZED CARRIAGE BOLTS WITH FLAT WASHERS AND NUTS. (DEFORM THREADS TYP.)

MARC STOUT
CITY ENGINEER

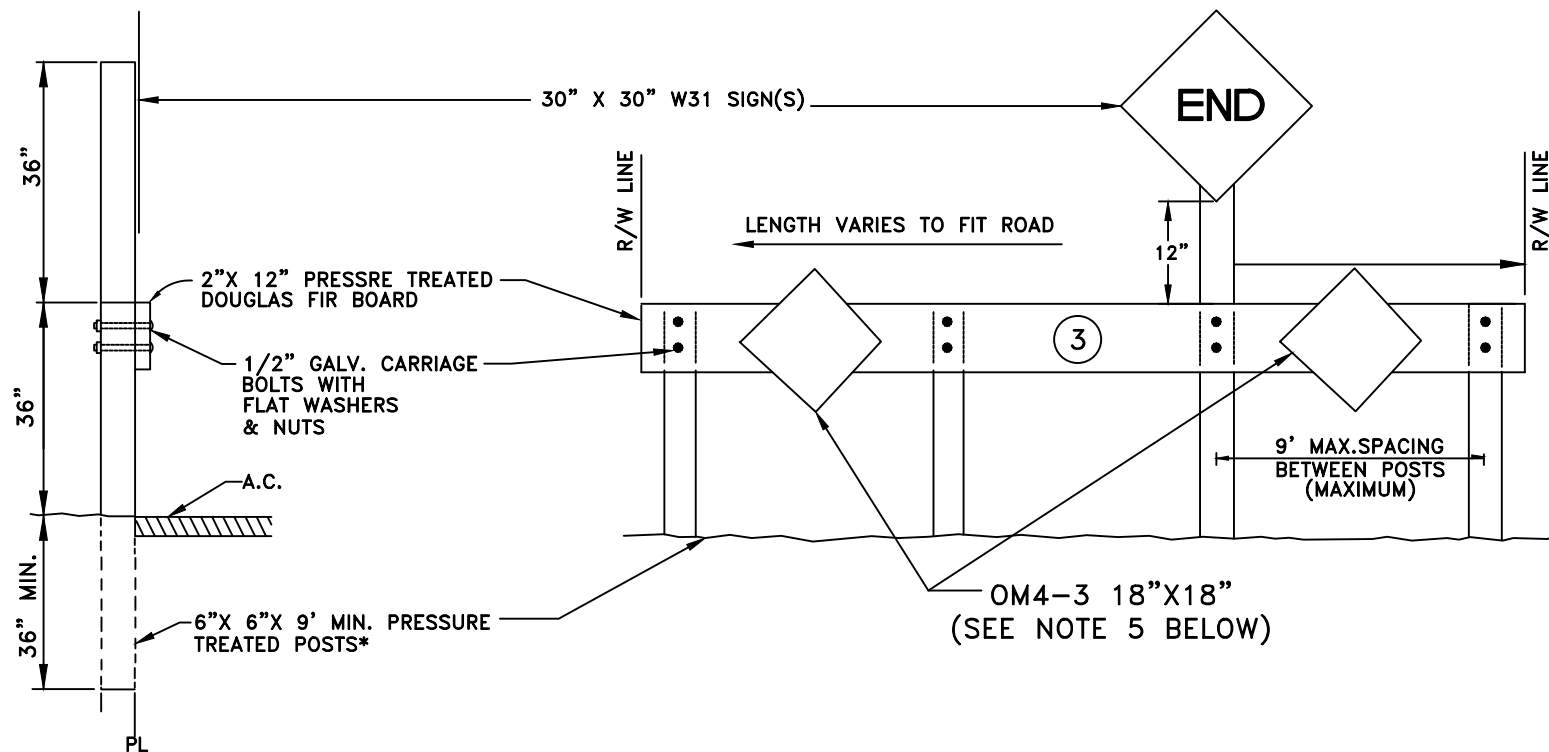


DEVELOPMENT SERVICES
DEPARTMENT

STUB STREET BARRICADE

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J MCKINNEY
APPROVED BY: MARC STOUT

ST-33



NOTES:

1. ALL EXPOSED SURFACES SHALL BE PAINTED WITH 2 (TWO) COATS OF WHITE PAINT CONFORMING TO SECTION 91-3.02 OF THE STATE SPECIFICATIONS.
2. ALL SIGNS SHALL BE 0.080 GA ALUMINUM.
3. "NO PARKING" (R-26) SHALL BE POSTED ON RAILS. SIGN DETAIL NUMBERS REFERENCE THE 2012 CALIFORNIA MUTCD.
4. SIGN POST SHALL BE 9- FEET MINIMUM.
5. OM4-3 SIGN SHEETING MATERIAL TO BE RETROREFLECTIVE.

Marc Stout

MARC STOUT
CITY ENGINEER

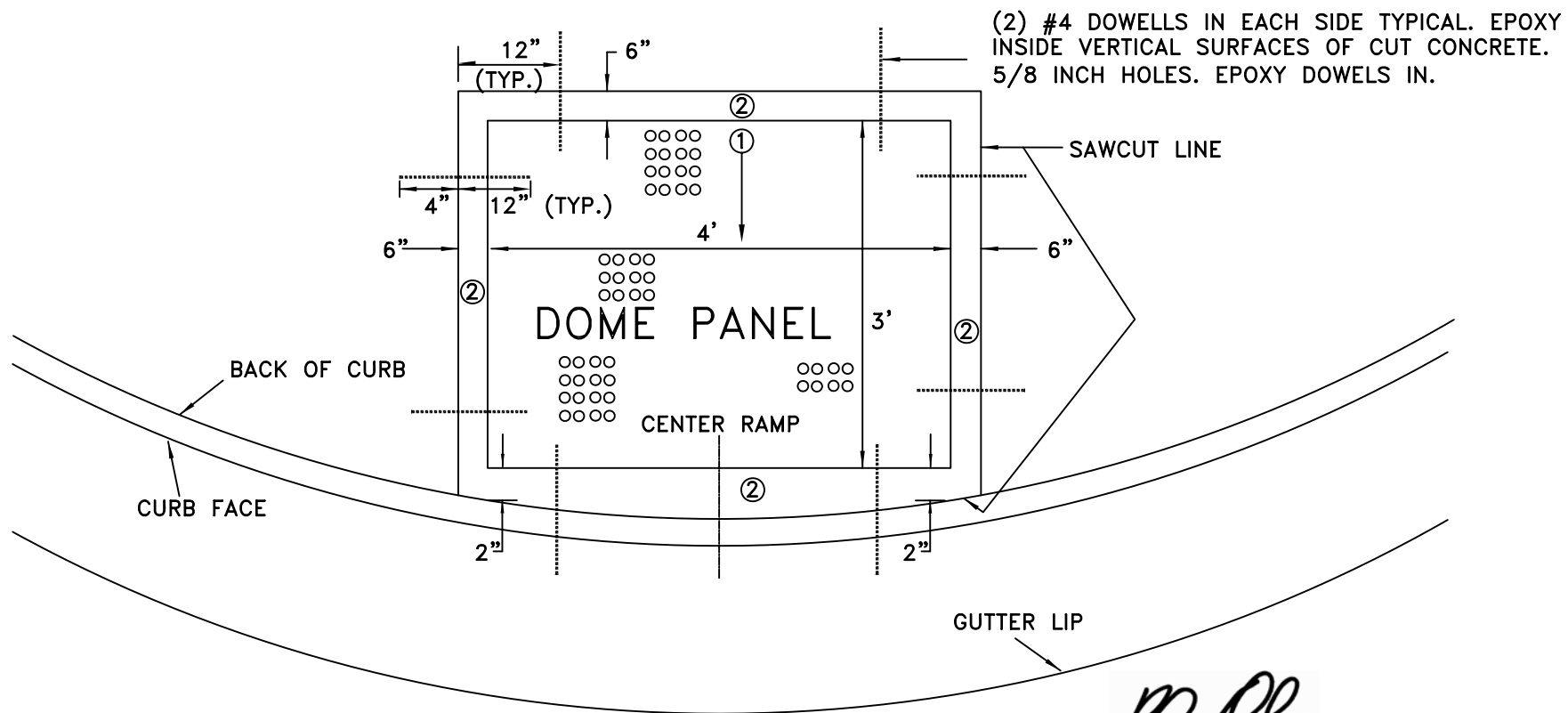


DEVELOPMENT SERVICES
DEPARTMENT

END OF STREET
TIMBER BARRICADE

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

ST-34



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RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

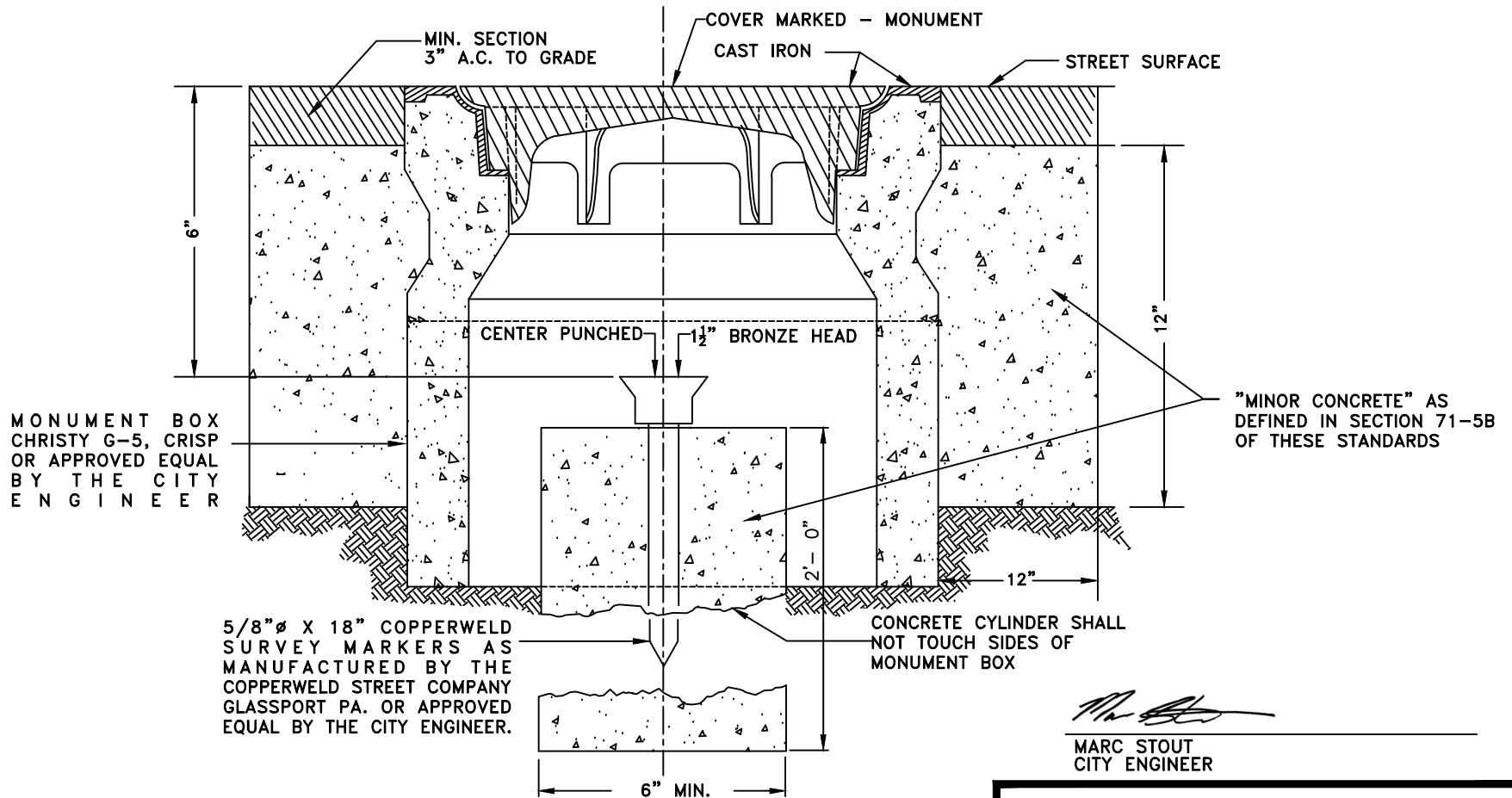
DETECTABLE WARNING
(TRUNCATED DOME PANEL)
RETROFIT OR REPLACEMENT

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-35

NOTES:

1. PRIOR TO RETROFITTING TRUNCATED DOME PANEL, ASSURE GRADES CONFORM TO CITY REQUIREMENTS.
2. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.



Marc Stout

MARC STOUT
CITY ENGINEER

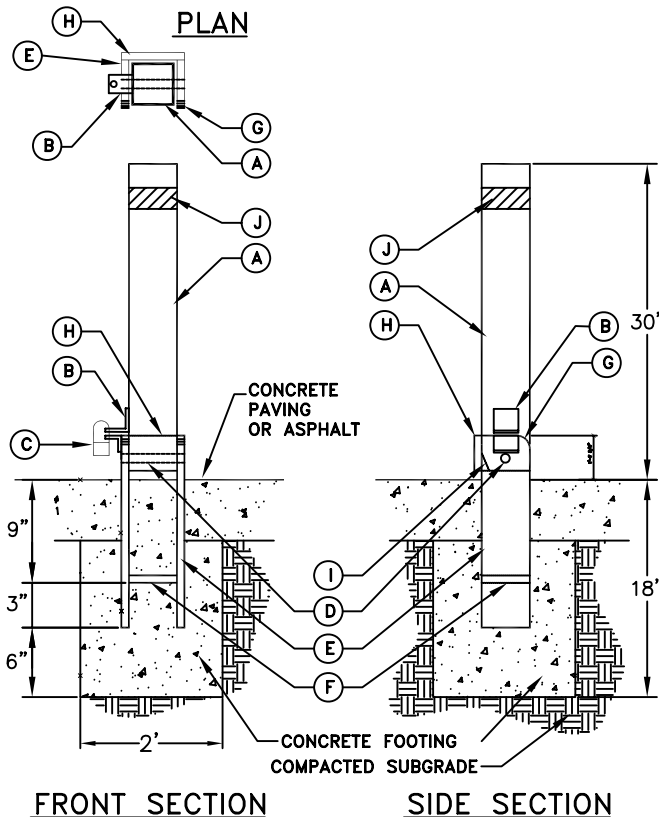


DEVELOPMENT SERVICES
DEPARTMENT

BOXED SURVEY MONUMENT

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

ST-36

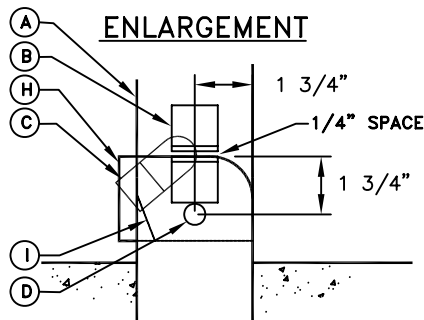


LEGEND

- A. 3 1/2" O.D. 1/4" WALL STEEL TUBE WITH CAP WELDED ON TOP, 3/4" HOLES FOR SWIVEL ROD. EASE ALL EDGES OF STEEL TUBE.
- B. 1 1/2" X 1 1/2" ANGLE IRON (2) WELDED TO TUBE AND BASE. PLACE 1/2" HOLE DRILLED 1/4" FROM END OF ANGLE IRON. ANGLE IRON ON BASE SIZE AS NECESSARY TO EQUAL LENGTH OF ANGLE IRON ON TUBE.
- C. PADLOCK, TO BE PROVIDED BY CITY.
- D. 5/8" DIA. STEEL SWIVEL ROD, WELD SWIVEL ROD TO SIDE PLATES.
- E. 3/8" x 16" x 4" STEEL BASE PLATE WITH 1 1/2" RADIUS CORNERS. EASE ALL EDGES.
- F. 3/8" STEEL BRACE. FILET WELD BOTH SIDES TO BASE PLATES.
- G. 1 1/2" RADIUS CORNERS, TYP.
- H. 4" X 4" x 3/8" STEEL BACK PLATE WELDED TO BASE PLATE.
- I. FISH MOUTH GRIND AT BOTTOM BACK CORNER OF TUBE.
- J. PLACE 2" WHITE REFLECTIVE TAPE.

NOTES

1. ALL TUBING SHALL BE BLACK STEEL PIPE.
2. ALL JOINTS SHALL BE WELDED IN ACCORDANCE WITH CA STATE STANDARD SPECIFICATIONS FOR WELDING STRUCTURAL STEEL AND GROUND SMOOTH.
3. ALL PARTS (EXCEPT PADLOCK) SHALL BE PAINTED WITH TWO COATS ZINC CHROMATE PRIMER AND TWO COATS EXTERIOR ENAMEL. COLOR: YELLOW
4. BOLLARD SHALL BE INSTALLED SUCH THAT IT LAYS FLAT WHEN FOLDED.
5. CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.



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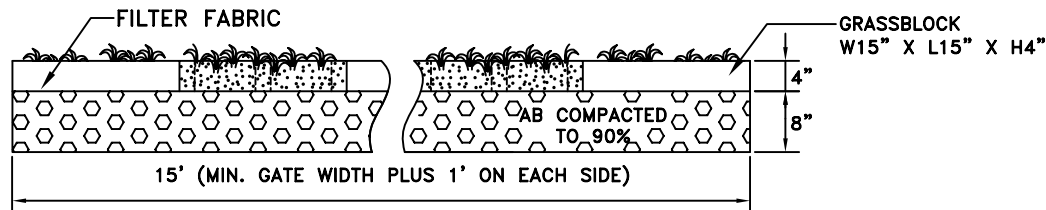
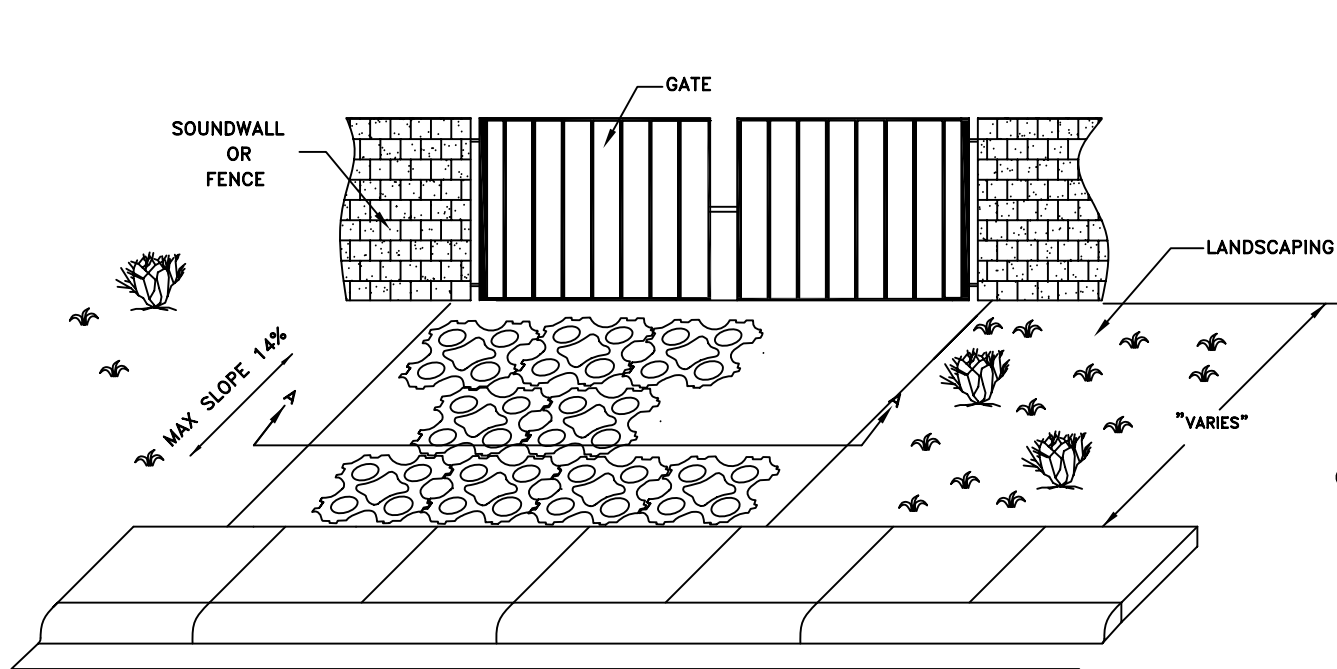


DEPARTMENT OF
PUBLIC WORKS

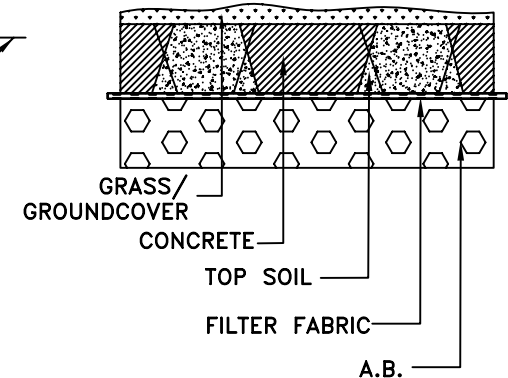
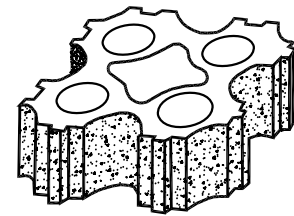
BOLLARD

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-38



SECTION A-A



SECTION

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DEPARTMENT OF
PUBLIC WORKS

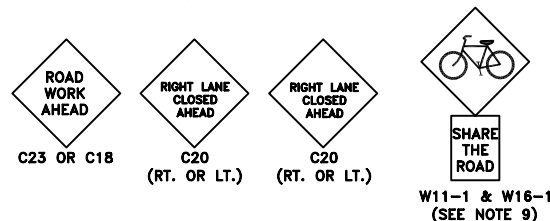
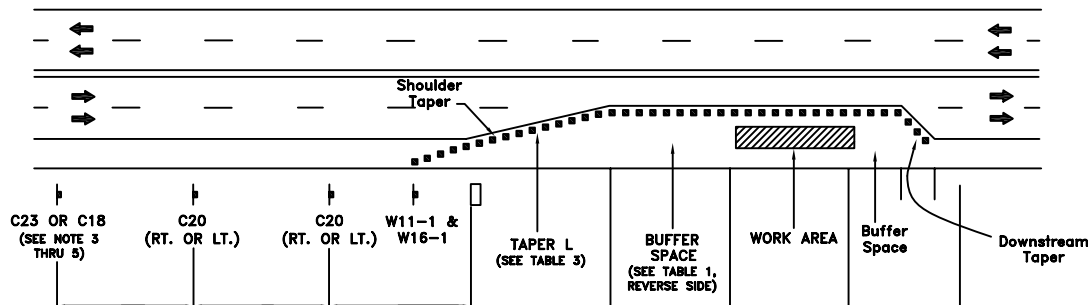
EMERGENCY ACCESS GATE THROUGH LANDSCAPE MEDIAN

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-39

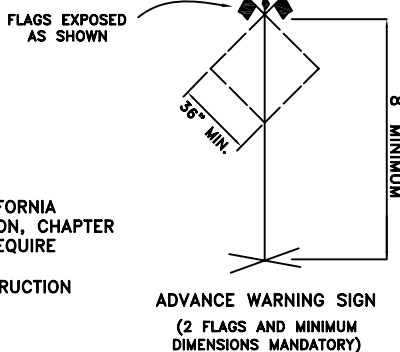
NOTES:

1. STANDARD GRASSBLOCK OR TURFSTONE
2. PLACE FILTER FABRIC UNDER GRASSBLOCK.
3. PLACE TOP SOIL ON GRASS BLOCK AND COMPACT TO 90%.
4. ACCESS DRIVEWAY TO CONTINUE THROUGH GATE TO BACK OF ADJOINING CURB OR SIDEWALK.
5. IRRIGATION LINES SHALL BE SLEAVED IN AREAS UNDER STRUCTURAL SECTION AND VEHICULAR WHEEL LOADS. AREA SHALL BE IRRIGATED WITH PERIMETER HEADS.



SPECIAL NOTES:

THIS DETAIL IS REPRODUCED FROM FIGURE 6C-1 OF THE CALIFORNIA MANUAL ON UNIFORMED TRAFFIC CONTROL DEVICES 2012 EDITION, CHAPTER 6-TEMPORARY TRAFFIC CONTROL. FIELD CONDITIONS COULD REQUIRE DEVIATIONS FROM THESE PLANS AND ACCOMPANYING NOTES. SEE SECTION 21-2 OF THE CITY OF ROSEVILLE DESIGN/CONSTRUCTION STANDARDS FOR CONES AND DELINEATORS.



LEGEND:

- └ SIGN
- CONE OR PORTABLE DELINEATOR
- ➔ DIRECTION OF TRAFFIC
- FLASHING ARROW SIGN

NOTES:

TAPER FORMULA:

$L = WS^2/60$ FOR SPEEDS OF 40 MPH OR LESS

$L = S \times W$ FOR SPEEDS OF 45 MPH OR MORE

WHERE:

L = MINIMUM LENGTH OF TAPER

S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85th PERCENTILE SPEED

W = WIDTH OF OFFSET

TABLE 3

Speed in Miles per Hour	Length of Taper in Feet	
	11 Feet	12 Feet
25	115	125
30	165	180
35	225	245
40	293	320
45	495	540
50	550	600
55	605	660
60	660	720
65	715	780
70+	770	1000

TABLE 2

Advance Warning Sign Spacing	
Speed Limits	Distance Between Signs in Feet
25 mph or less	100
30 or more	350
Rural	500
Expressway	1000

NOTES:

1. THIS PLAN DOES NOT APPLY WHERE THERE ARE EMERGENCY CONDITIONS. UNDER EMERGENCY CONDITIONS, EQUIPMENT AND PERSONNEL WHICH ARE AVAILABLE SHOULD BE UTILIZED TO IMPLEMENT A CLOSURE, EVEN THOUGH SUCH CLOSURE DOES NOT MEET THE STANDARDS CONTAINED IN THIS PLAN. AS EQUIPMENT OR PERSONNEL BECOME AVAILABLE, AN IMMEDIATE EFFORT SHOULD THEN BE MADE TO IMPLEMENT THE STANDARDS SHOWN ON THIS PLAN.
2. ALL ADVANCE WARNING SIGNS SHALL BE 36" X 36" MINIMUM. (SEE NOTE 5)
3. ALL WARNING SIGNS FOR NIGHT CLOSURES SHALL BE EITHER ILLUMINATED OR RETROREFLECTORIZED.
4. A "C18 ROAD CONSTRUCTION AHEAD" SIGN MAY BE USED IN LIEU OF THE C23. (SEE NOTE 3)
5. WARNING (W) SERIES SIGNS USED IN WORK ZONES SHALL BE BLACK ON ORANGE. EXISTING YELLOW WARNING SIGNS ALREADY IN PLACE WITHIN THESE AREAS MAY REMAIN IN USE.
6. PAYEMENT MARKINGS FOR CLOSURES SHALL CONFORM TO SECTION 6 OF THE CALIFORNIA MUTCD 2006 EDITION AND CALTRANS STANDARD PLANS.
7. ALL CONES SHALL BE INTERNALLY ILLUMINATED OR FITTED WITH RETROREFLECTIVE WHITE SLEEVES FOR NIGHT CLOSURES. (SEE SECTION 6-6F.59 OF THE CALIFORNIA MUTCD MANUAL)
8. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL TO THE SPEED LIMIT.
9. W11-1 AND W16-1 REQUIRED ONLY WHEN TAPER CROSSES A MARKED BICYCLE LANE.

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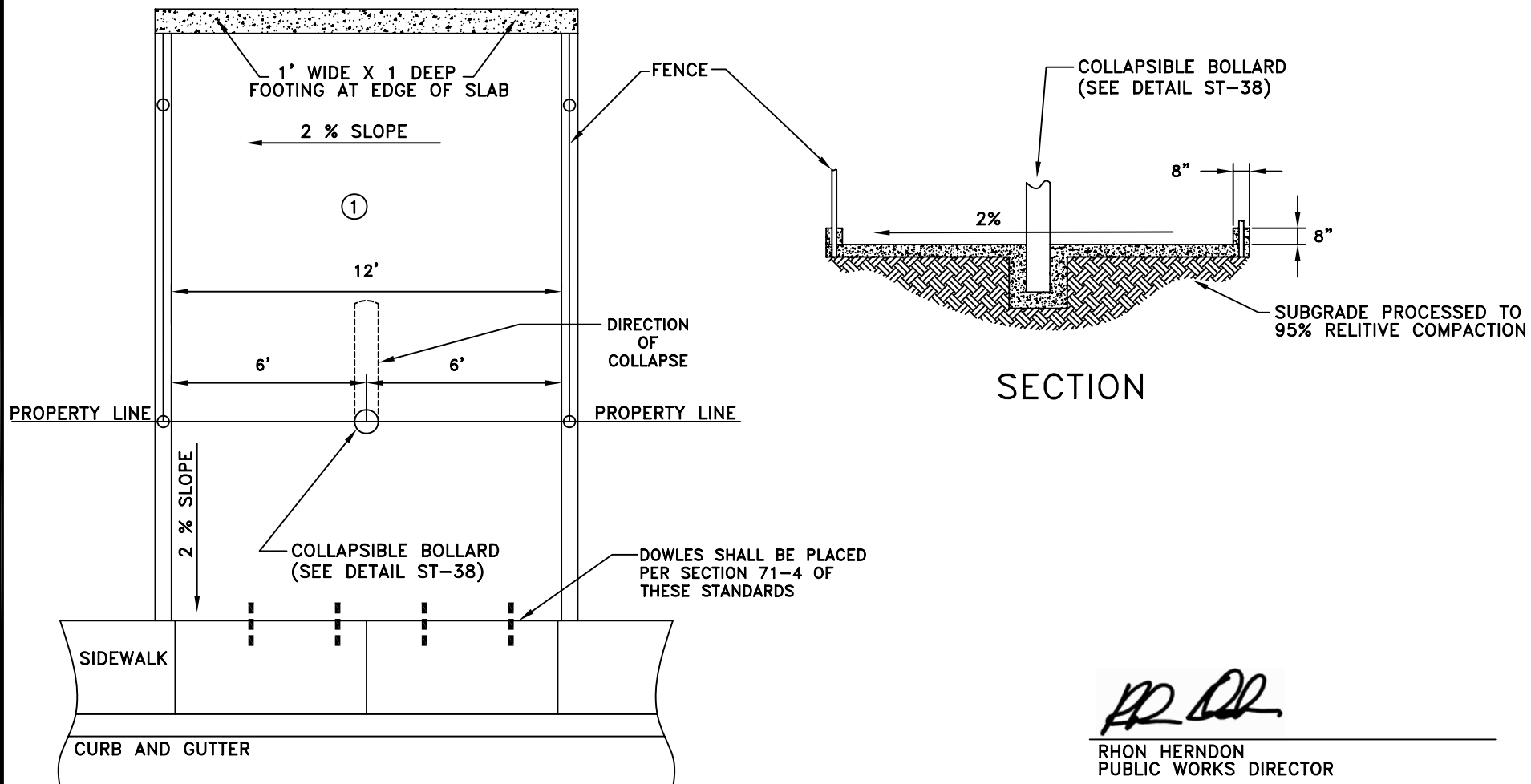


DEPARTMENT OF
PUBLIC WORKS

TYPICAL TRAFFIC CONTROL LANE CLOSURE/TRANSITION

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-40



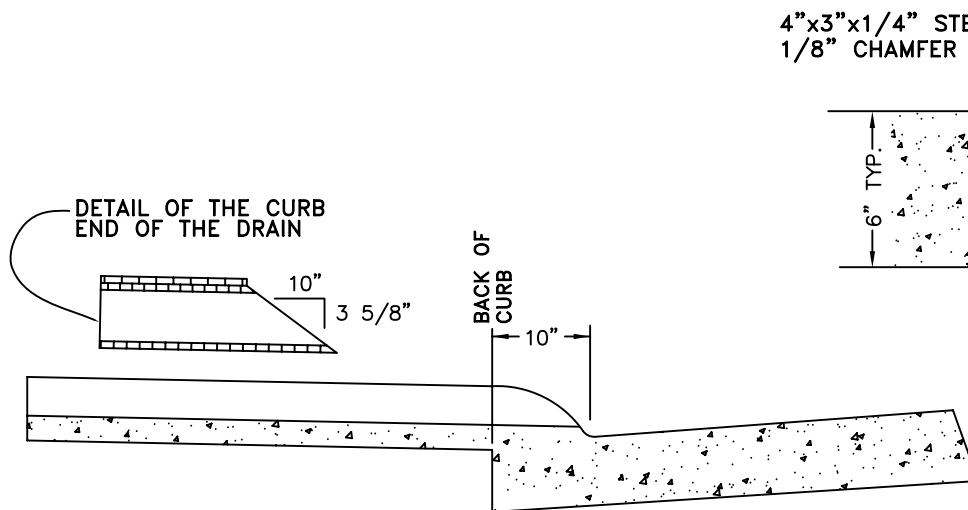
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	DEPARTMENT OF PUBLIC WORKS
GREEN BELT ACCESS	
SCALE: NONE REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	ST-41

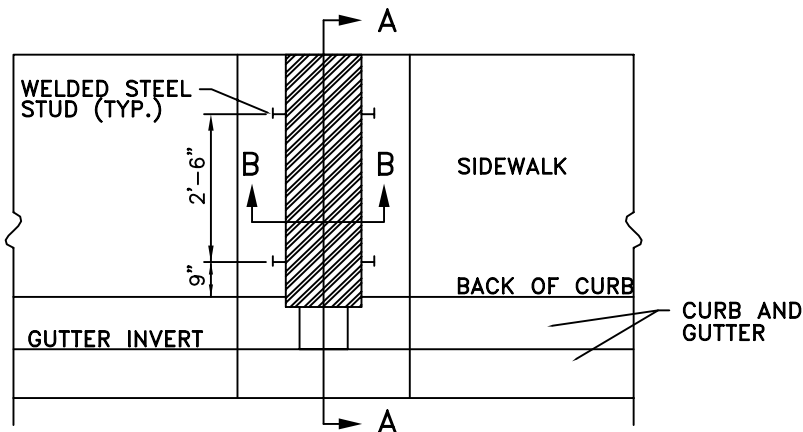
NOTES:

1. 6" CONCRETE SLAB SECTION TO BE 6" A.B. COMPACTED SUBGRADE, 95% COMPACTION.
2. CHAIN LINK OR ROD IRON FENCE MAY NOT EXCEED 3' IN HEIGHT WITHIN BUILDING SET BACK, 6' IN HEIGHT THEREAFTER.
3. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.



SECTION A-A
FOR TYPE 1 CURB

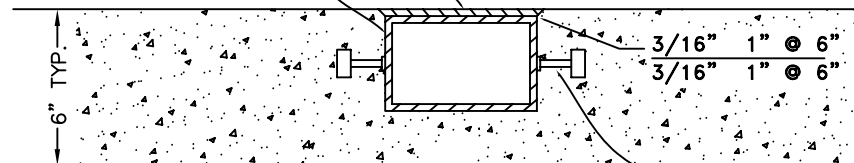
(FOR TYPE II CURB & GUTTER, ASSEMBLY SHALL MATCH CURB BATTER)



PLAN VIEW OF CURB, GUTTER & SIDEWALK

4"x3"x1/4" STEEL TUBE
1/8" CHAMFER BOTH ENDS.

1/4"x 0'-5" CHECKER PLATE



1/2"x 2" WELDED STEEL
STUD OR #4 REBAR,
2 REQUIRED EACH SIDE.

SECTION B-B

WHEN PLACING IN EXISTING SIDEWALK, SAWCUT AND REPLACE A LENGTH OF CURB, GUTTER AND SIDEWALK EQUAL TO THE SIDEWALK WIDTH. IF THE ASPHALT CONCRETE EDGE IS DAMAGED, SAWCUT THE PAVEMENT AND PAVE A TWO FOOT WIDE BY SIX INCH DEEP PATCH AT THE GUTTER LIP.

ALL HARDWARE SHALL BE GALVANIZED PER CALTRANS SPECIFICATIONS.

RHON HERNDON

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PUBLIC WORKS DIRECTOR

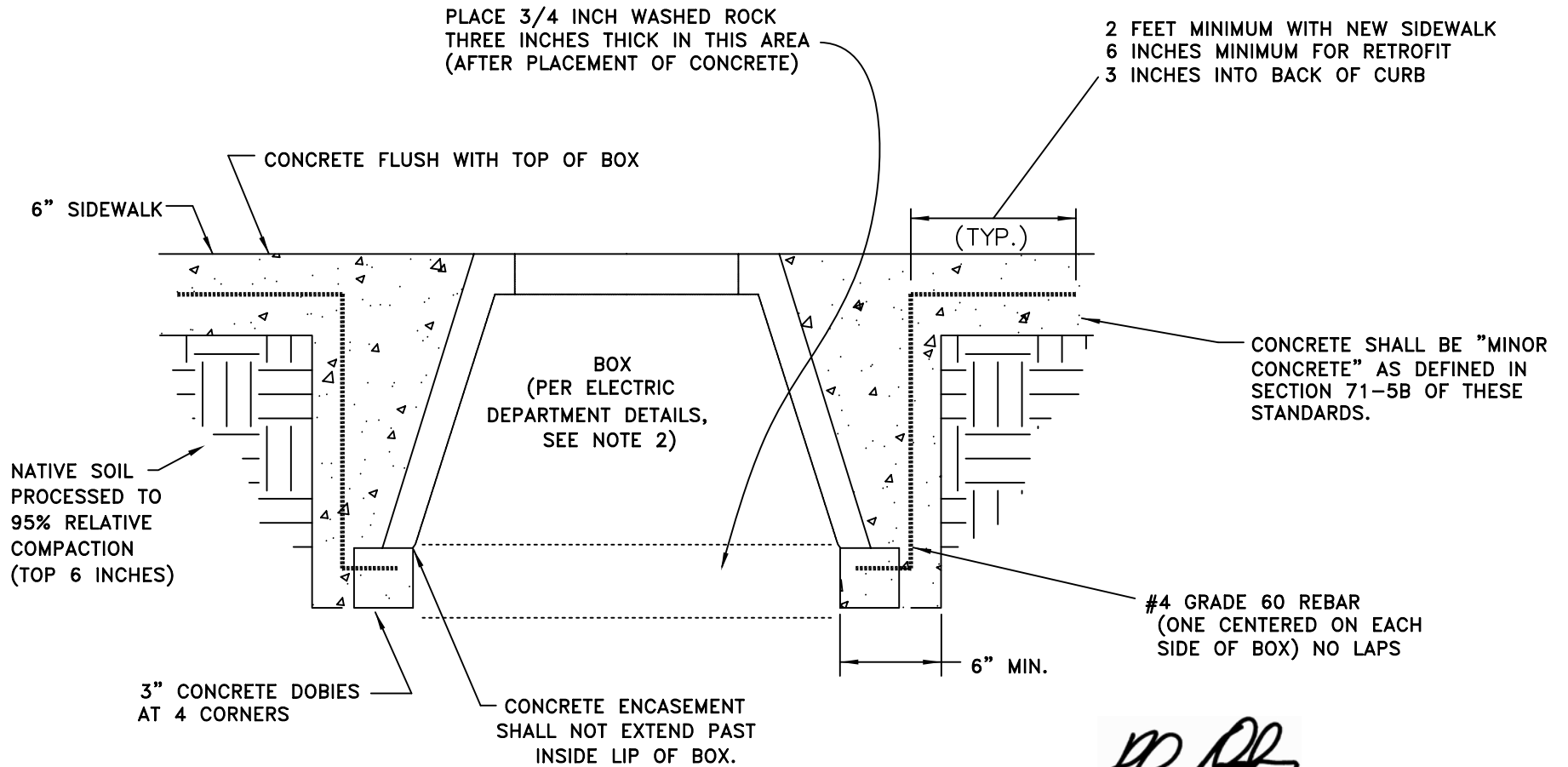
CITY OF
ROSEVILLE
CALIFORNIA

DEPARTMENT OF
PUBLIC WORKS

UNDER WALK DRAIN

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-42



RHON HERNDON

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PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

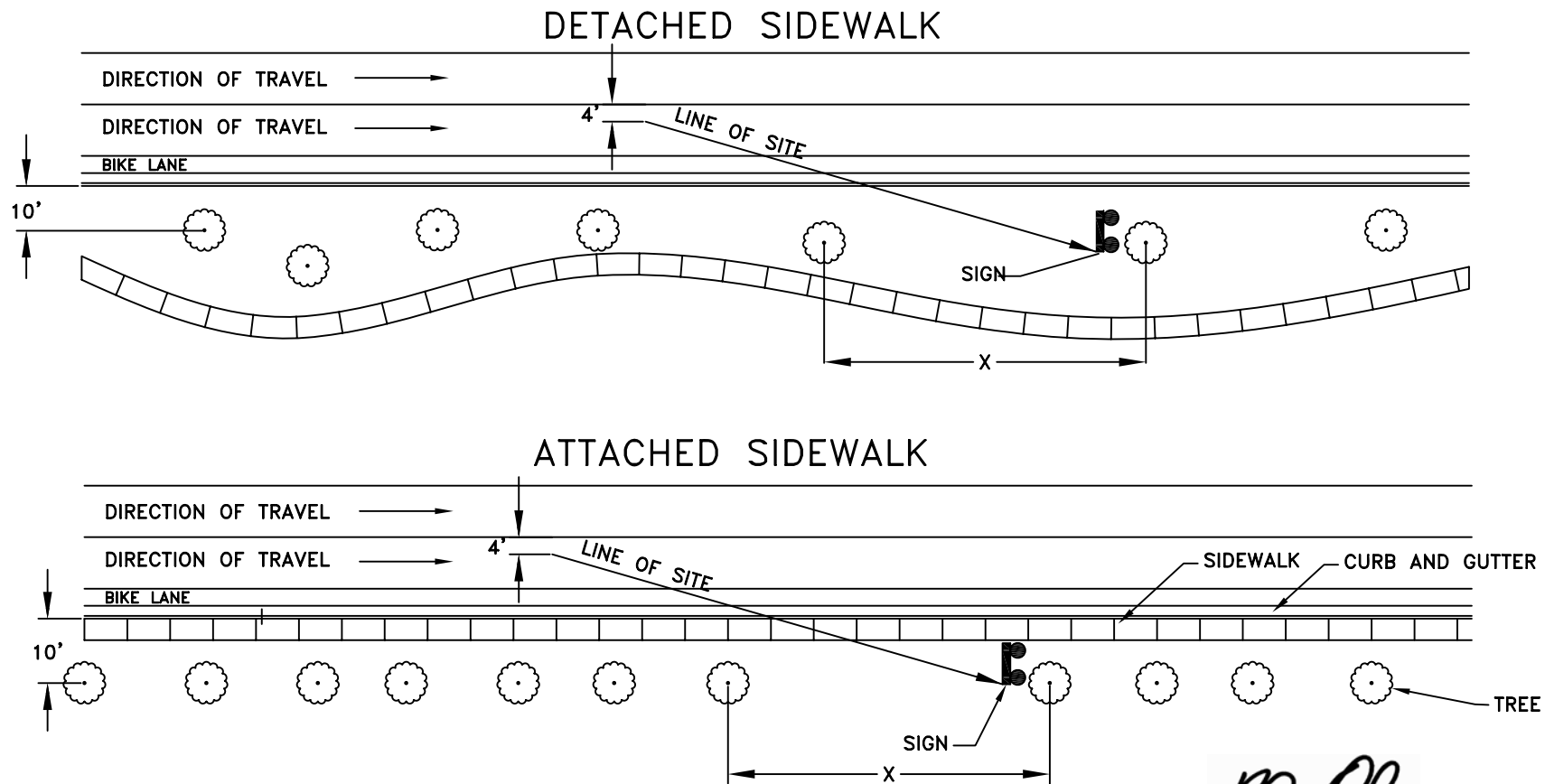
ENCASEMENT FOR ALL ROSEVILLE ELECTRIC JUNCTION BOXES IN CITY SIDEWALKS

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-43

NOTES:

1. IF A BOX EXTENDS OUTSIDE BACK OF SIDEWALK, PROVIDE ONE FOOT WIDE BY SIX INCH THICK CONCRETE COLLAR AROUND FULL PERIMETER. (EXTEND REBAR 10 INCHES INTO COLLAR.)
2. SEE ELECTRIC DEPARTMENT DETAIL PAGES 6.1 AND 6.2 (RESIDENTIAL) AND PAGES 8.1 AND 8.2 (COMMERCIAL).



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. THESE ARE MINIMUM DISTANCES FOR TREES ALONG ROADWAYS.
2. DISTANCE FROM BACK OF CURB TO CENTER OF TREE IS TO BE GREATER THEN OR EQUAL TO 10'

SPEED MPH	MINIUM CLEARANCE FOR LINE OF SITE "X"
25	75 -ft
30	90 -ft
40	120 -ft
50	150 -ft
60	180 -ft

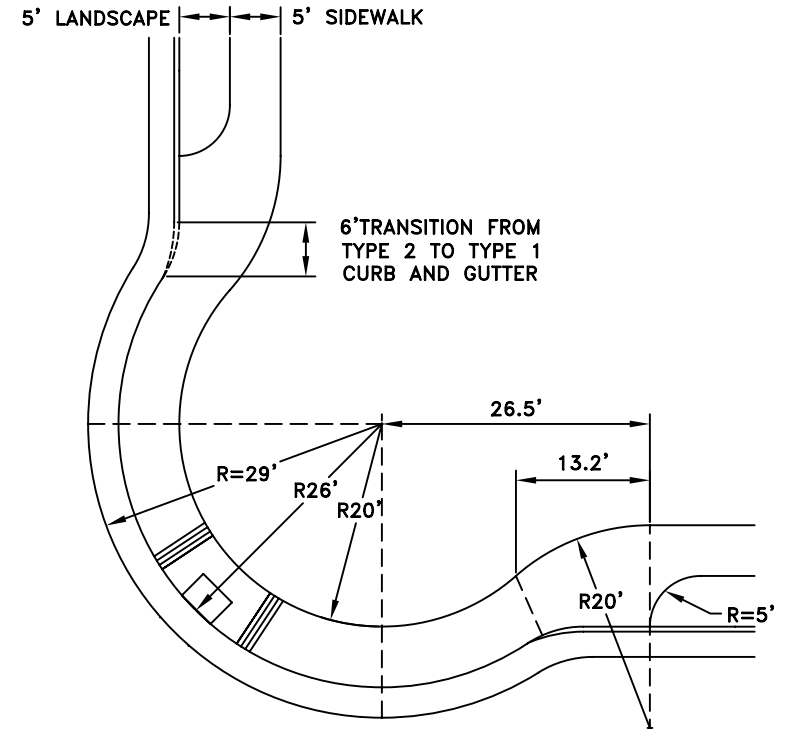
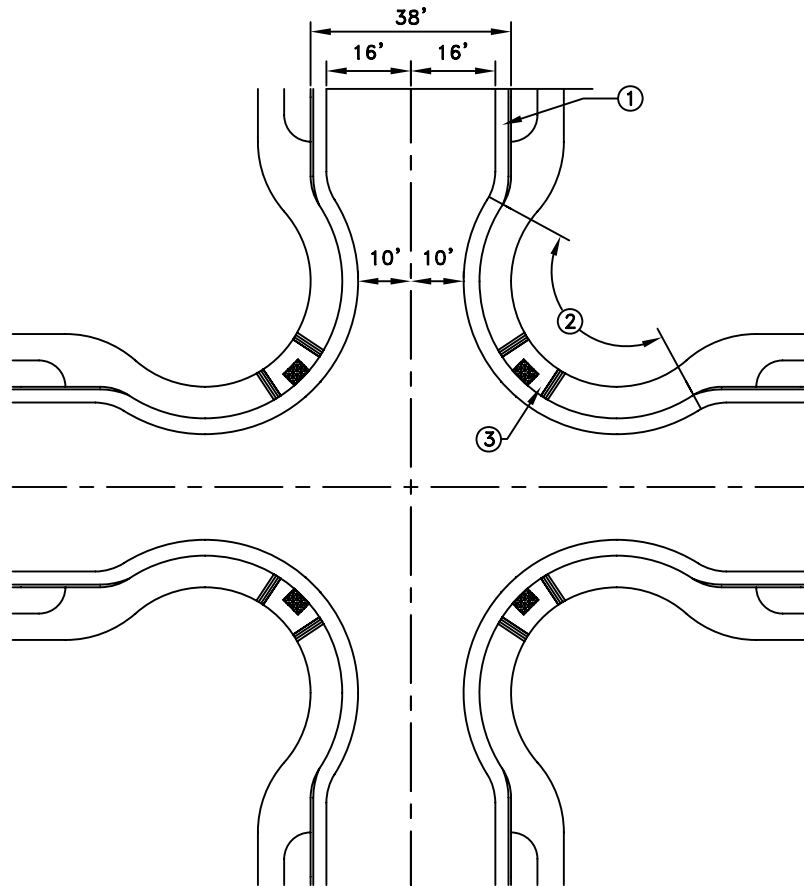


DEPARTMENT OF
PUBLIC WORKS

LANDSCAPE SIGHT DISTANCE

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-44



RHON HERNDON

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LEGEND

1. TYPE 2 CURB AND GUTTER
2. TYPE 1 CURB AND GUTTER AND SIDEWALK TO BE 10" THICK "MINOR CONCRETE"
3. PLACE CASE "C" PEDESTRIAN RAMP, SEE DETAIL "ST-27".

NOTES:

1. ALL CONCRETE TO "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THE STANDARDS.

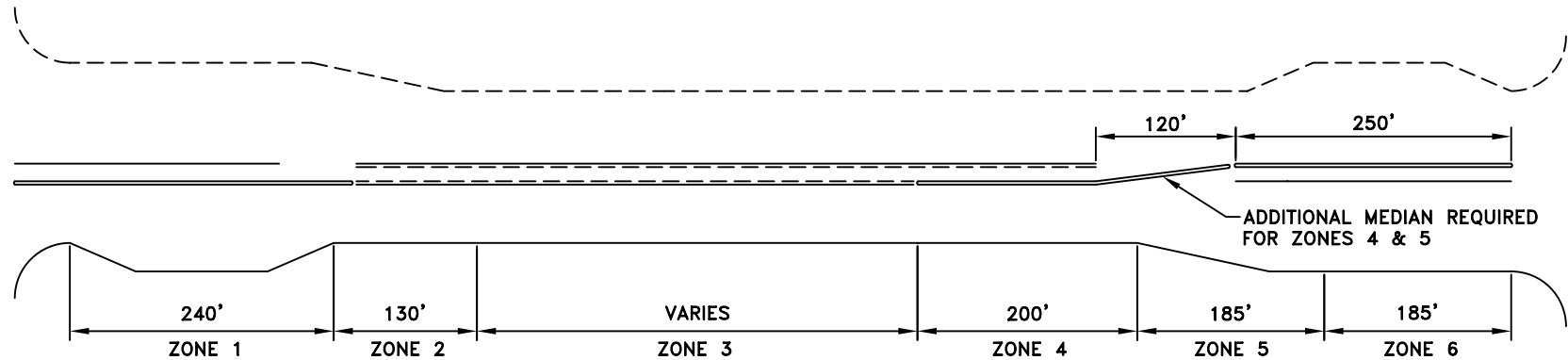


DEPARTMENT OF
PUBLIC WORKS

RESIDENTIAL BULBED INTERSECTION

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-45



- ZONE 1 NO DRIVEWAYS OR STREETS ALLOWED.
- ZONE 2 DRIVEWAYS AND STREETS ALLOWED. LEFT TURN OUT PROHIBITED. WHERE THE ADJACENT STREET WILL HAVE DUAL LEFT TURN LANES, ZONE 2 SHALL BE INCREASED TO 190 FEET.
- ZONE 3 DRIVEWAYS AND STREETS ALLOWED. ALL TURNING MOVEMENTS PERMITTED.
- ZONE 4 DRIVEWAYS AND STREETS ALLOWED. LEFT TURNS IN AND OUT PROHIBITED. ADDITIONAL MEDIAN REQUIRED.
- ZONE 5 DRIVEWAYS ARE ALLOWED. STREETS ARE PROHIBITED. LEFT TURNS IN AND OUT ARE PROHIBITED. ADDITIONAL MEDIAN REQUIRED.
- ZONE 6 NO DRIVEWAYS OR STREETS ALLOWED.

NOTES:

1. OPPOSING DRIVEWAYS SHOULD ALIGN WITH EACH OTHER, IF NOT SEE DETAIL "ST-47" FOR MINIMUM OFFSETS.
2. SEE DETAIL "ST-48" OR "ST-49" FOR DRIVEWAYS NEAR BUS TURNOUTS.

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



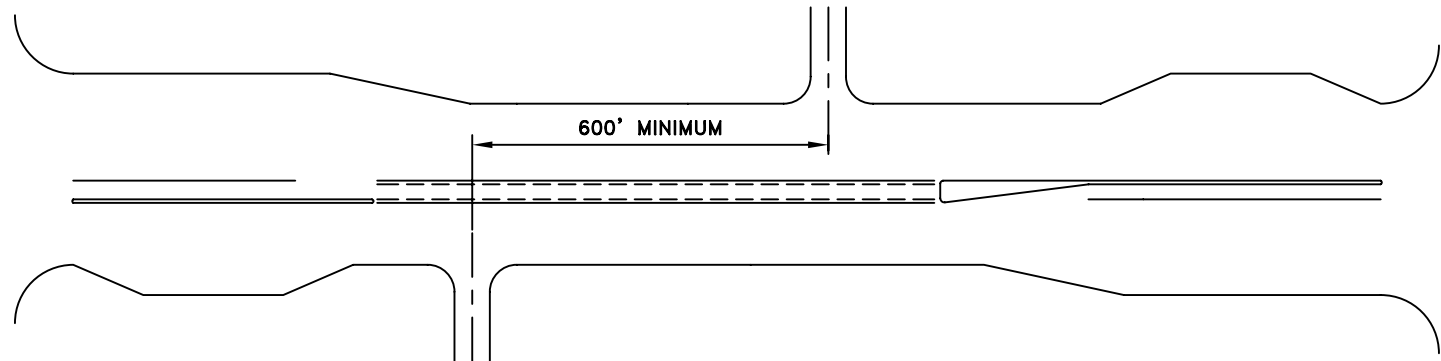
DEPARTMENT OF
PUBLIC WORKS

PERMITTED DRIVEWAYS
STREETS OR MINOR ARTERIALS

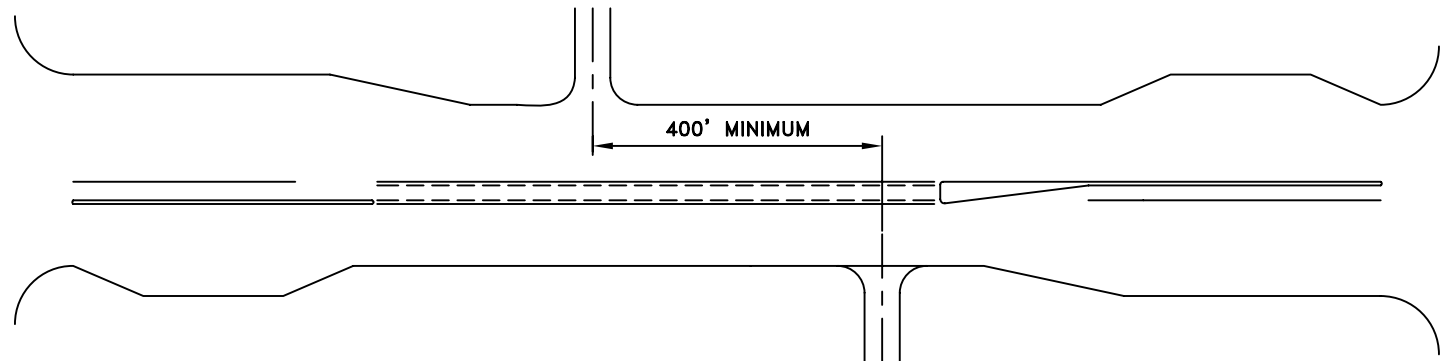
SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: R HERNDON

ST-46

RIGHT HAND OFFSET



LEFT HAND OFFSET



RH Herndon

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

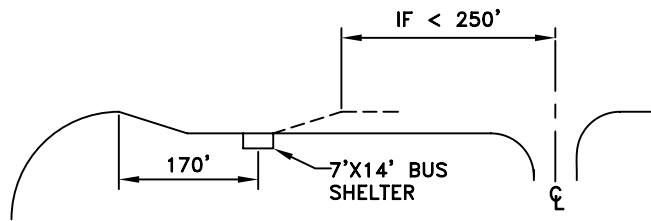
MINIMUM DRIVEWAY
OR STREET OFFSET ON
MINOR ARTERIAL

NOTES:

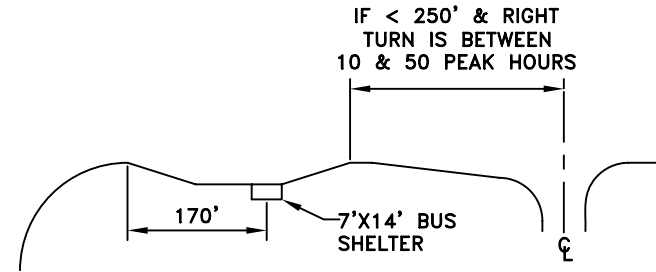
1. SEE DETAIL "ST-46" FOR PERMITTED LOCATIONS AND TURNING MOVEMENTS.

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: R HERNDON

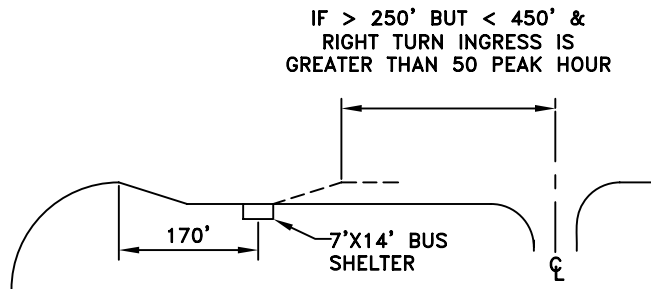
ST-47



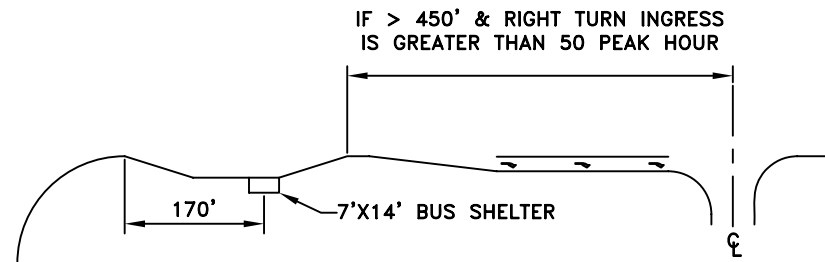
CASE 1



CASE 2



CASE 3



CASE 4

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

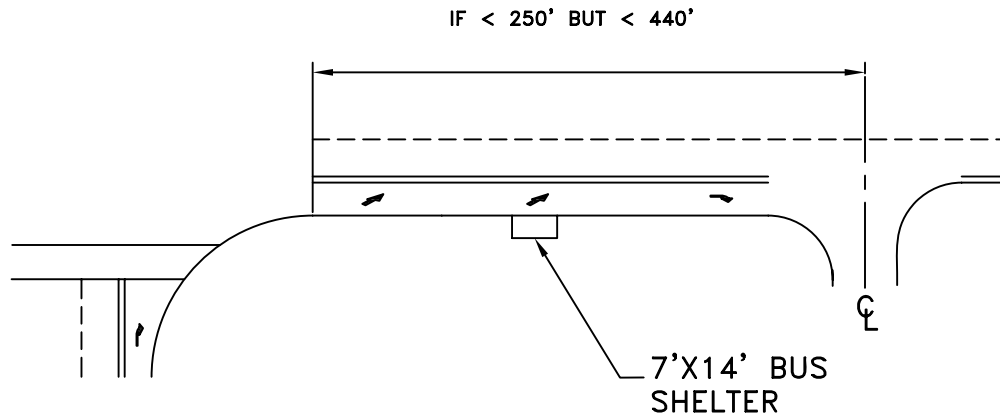
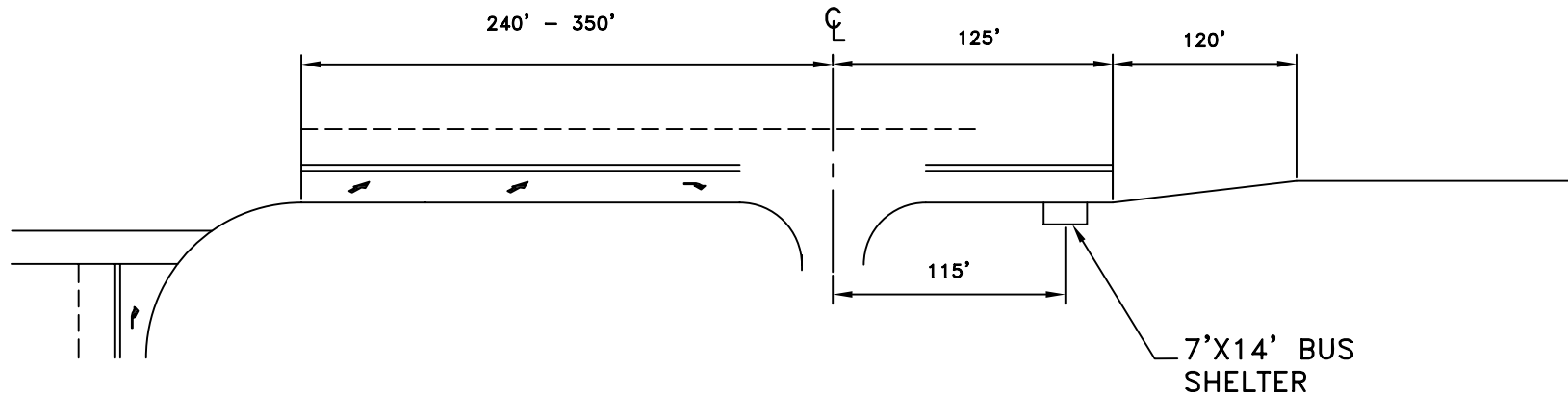


DEPARTMENT OF
PUBLIC WORKS

BUS SHELTER/DRIVEWAY LOCATIONS

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: R HERNDON

ST-48



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

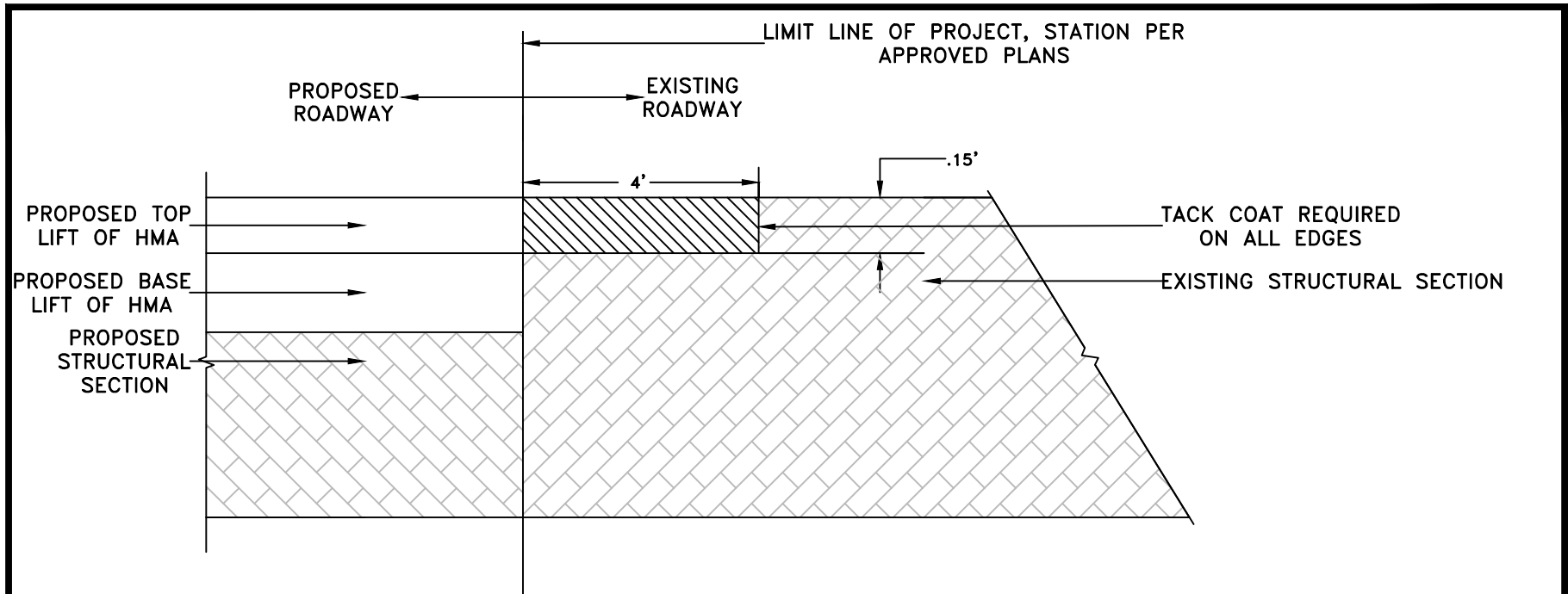


DEPARTMENT OF
PUBLIC WORKS

BUS SHELTER/DRIVEWAY LOCATIONS

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: R HERNDON

ST-49



SECTION DETAIL

LEGEND:



MILLED ASPHALT CONCRETE

NOTES:

1. ALL MATERIAL AND COMPACTION REQUIREMENTS SHALL CONFORM TO CITY CONSTRUCTION STANDARDS.
2. ROADWAY CONFORMS INTENDED FOR ALL ARTERIAL & COLLECTOR ROADWAYS WHERE PHASED CONSTRUCTION EXISTS.
3. LIMITS OF RESIDENTIAL ROADWAY CONFORMS, INCLUDING STUB STREETS, SHALL BE AT THE CITY INSPECTORS DISCRETION.
4. ROADWAY STRUCTURAL COMPONENTS MAY VARY IN THICKNESS BETWEEN NEW AND EXISTING ROADWAYS. WHERE THIS OCCURS, EXISTING COMPONENTS SHALL BE TIED-IN AT CITY INSPECTORS DISCRETION.
5. FIRST 4 FEET OF MILLED ASPHALT CONCRETE FROM LIMIT LINE SHALL BE MILLED .15'.

MARC STOUT
CITY ENGINEER

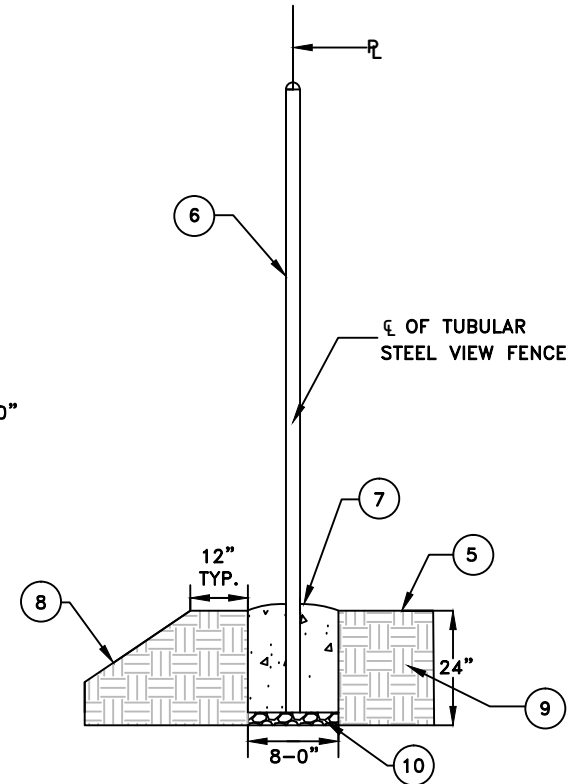
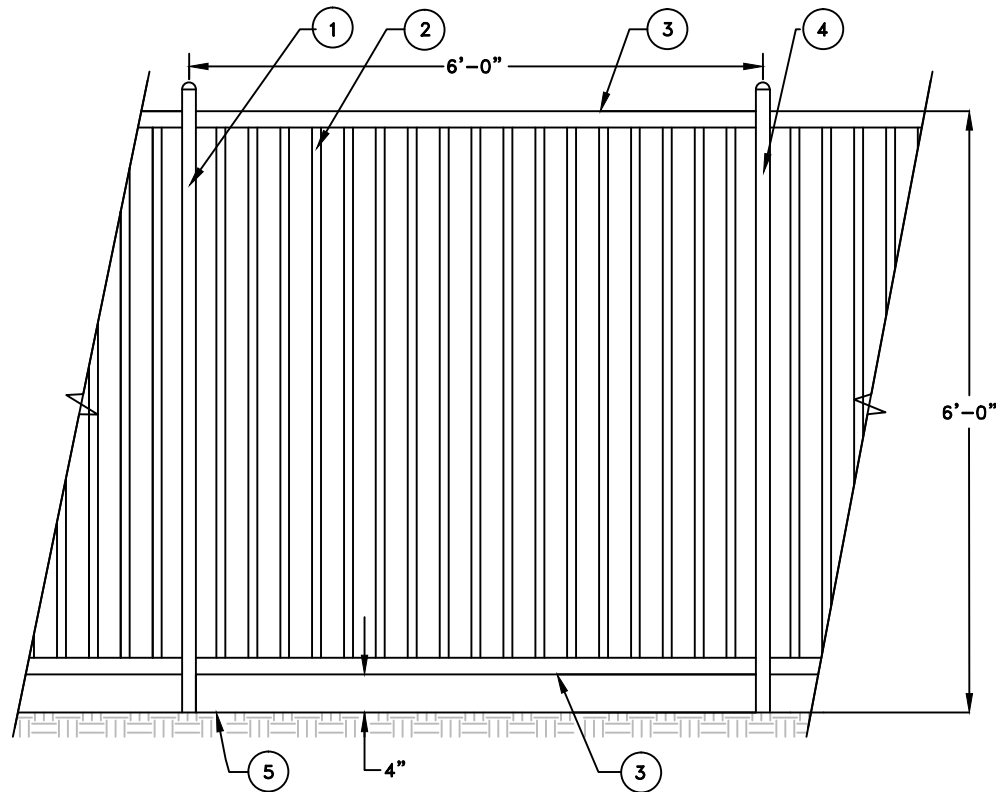


DEVELOPMENT SERVICES
DEPARTMENT

ROADWAY STRUCTURAL
SECTION CONFORM

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: G. HOWES

ST-50



LEGEND:

1. TERMINAL POST, LOCATE AT ALL DIRECTIONAL CHANGES AND ALL PROPERTY LINE CORNERS AND TERMINATIONS, TYP.
2. 1"X14 GA. PICKET
3. 1-3/4"X14 GA. RAIL (TOP & BOTTOM)
4. 12 GA. POST W/ CAP, TYP.
5. FINISH GRADE AT RESIDENTIAL LOT PAD
6. CONSTRUCT ON PROPERTY LINE UNLESS OTHERWISE NOTED ON APPROVED PLAN
7. TOP OF CONCRETE FOOTING EXPOSED MIN. 1" ABOVE EXISTING GRADE SLOPE TO DRAIN, TYP. MINOR CONCRETE AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
8. FINISH GRADE BEHIND REAR PROPERTY LINE (SLOPE VARIES)
9. COMPACTED SUBGRADE TO 90% RELATIVE DENSITY, TYP.
10. 2" INCH THICK 3/4" CRUSHED ROCK.

NOTES:

1. ALL FENCE PARTS TO BE PREFINISHED BLACK POWDER COATED TUBULAR STEEL. GRIND SMOOTH ALL WELDS.
2. ALL PAINT AND PRIMER SHALL BE APPLIED TO CLEAN SURFACES IN 5 MIL. COATS. FINISH COLOR SHALL MATCH POWDER COAT SHEEN, AND BE RUSTOLEUM TYPE PAINT OR APPROVED EQUAL.
3. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
4. DESIGN ENGINEER TO SUBMIT MODIFIED FOOTING DESIGN DETAIL TO CITY FOR APPROVAL PRIOR TO CONSTRUCTION WHEN VIEW FENCE TERMINAL POST CANNOT BE CONSTRUCTED PER THIS DETAIL AS IN THE CASE OF A KEYSTONE BLOCK CONFIGURATION.

Marc Stout

MARC STOUT
CITY ENGINEER

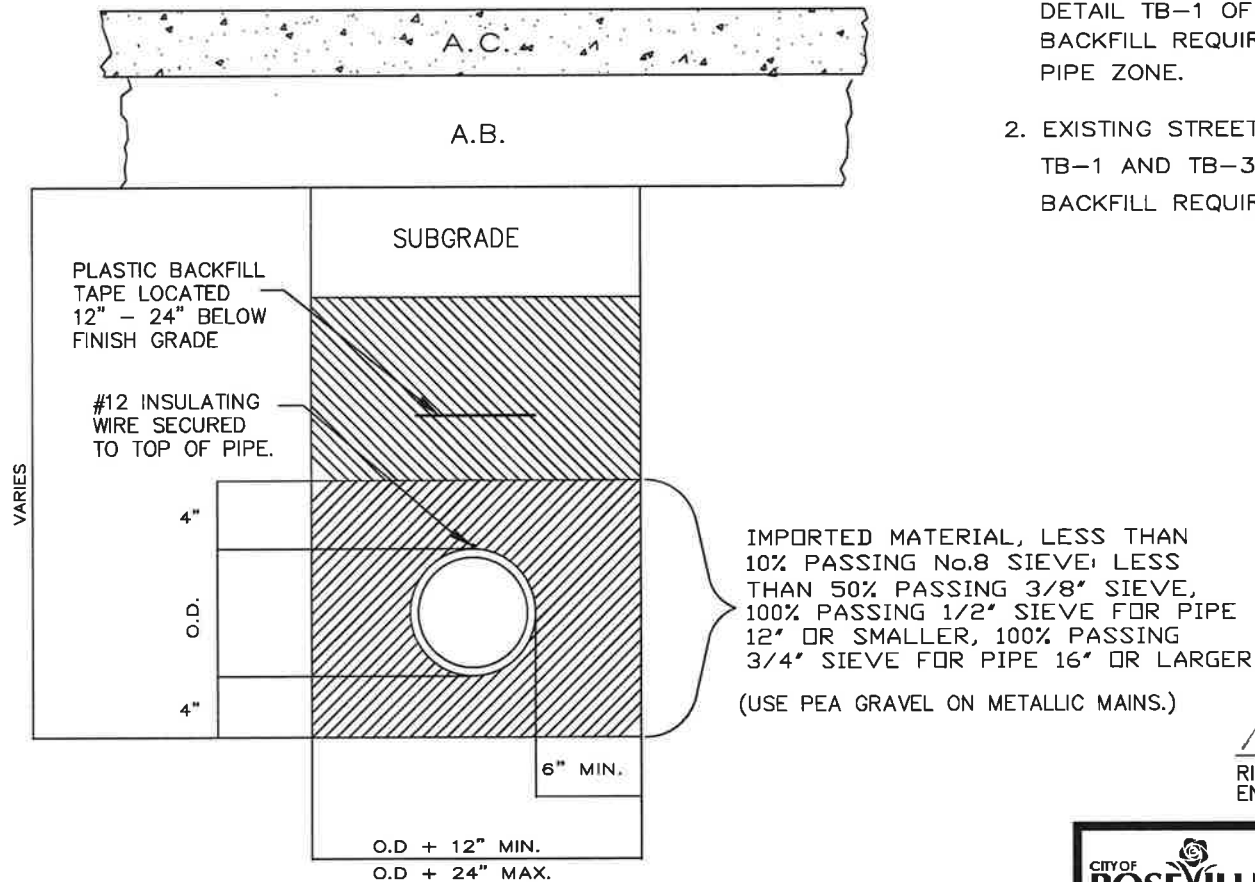


DEVELOPMENT SERVICES
DEPARTMENT

**6' HIGH TUBULAR
STEEL VIEW FENCE**

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: G. HOWES

ST-51



TRENCH BACKFILL REQUIREMENTS:

1. PROPOSED STREETS — REFER TO DETAIL TB-1 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.
2. EXISTING STREETS — REFER TO DETAILS TB-1 AND TB-3 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.

Richard D. Plecker
 RICHARD PLECKER
 ENVIRONMENTAL UTILITIES DIRECTOR

NOTES:

BACKFILL SHALL BE MECHANICALLY CONSOLIDATED OR SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE.

IN ROCKY OR UNYIELDING SOIL, THE TRENCH SHALL BE EXCAVATED A MINIMUM OF 12" BELOW THE PIPE AND THE TRENCH WIDTH SHALL BE INCREASED BY 12".

ONE 12" WIDE STRIP OF BACKFILL TAPE SHALL BE USED FOR EVERY 12" PIPE DIAMETER OR FRACTION THERE OF.



ENVIRONMENTAL UTILITIES
 DEPARTMENT

WATER MAIN TRENCH AND BACKFILL

SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

W-1

NOTES:

NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

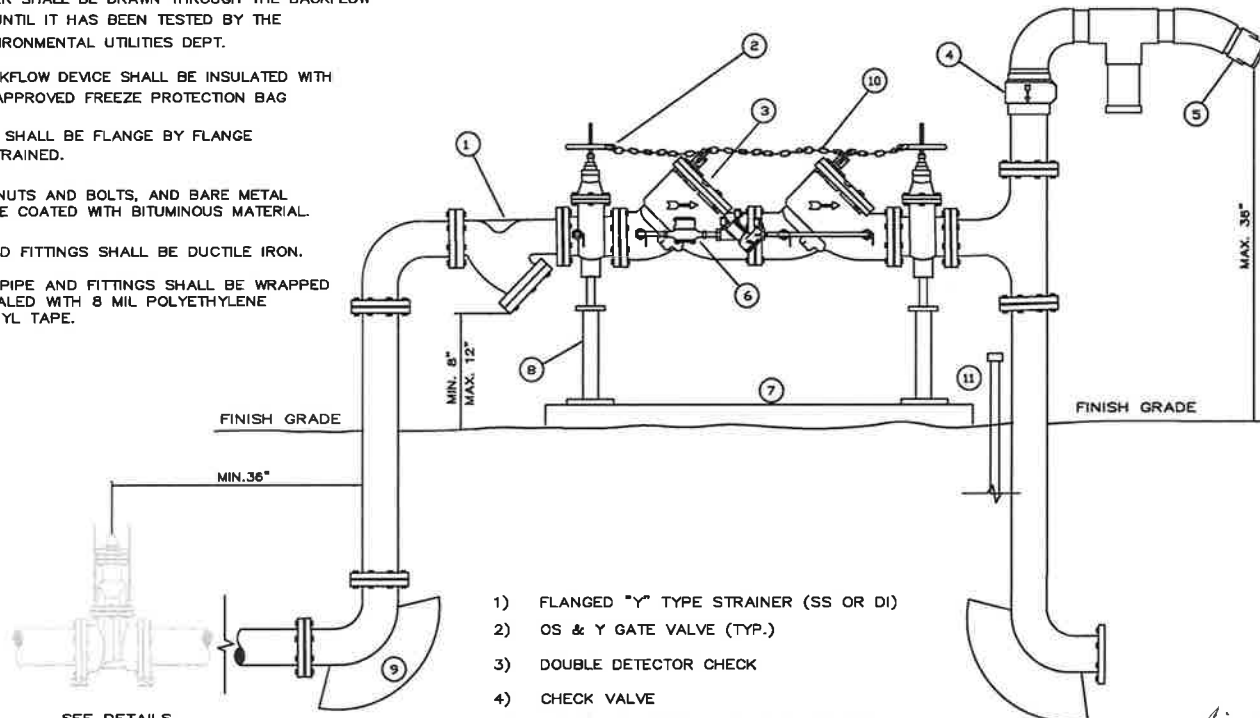
THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG

FITTINGS SHALL BE FLANGE BY FLANGE OR RESTRAINED.

BURIED NUTS AND BOLTS, AND BARE METAL SHALL BE COATED WITH BITUMINOUS MATERIAL.

PIPE AND FITTINGS SHALL BE DUCTILE IRON.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED AND SEALED WITH 8 MIL POLYETHYLENE AND VINYL TAPE.



SEE DETAILS
W-15 AND W-16
FOR VALVE

- 1) FLANGED "Y" TYPE STRAINER (SS OR DI)
- 2) OS & Y GATE VALVE (TYP.)
- 3) DOUBLE DETECTOR CHECK
- 4) CHECK VALVE
- 5) SIAMESE 45 DEGREE FDC WITH END CAPS
- 6) WATER METER
- 7) 3 1/2" THICK REINFORCED CONCRETE SLAB.
- 8) SUPPORTS 2-TYP. SHALL BE BOLTED DOWN WITH A MINIMUM OF TWO BOLTS EACH
- 9) THRUST BLOCK (TYP.)
- 10) 1/4" NON CASE HARDENED CHAIN WITH BREAKAWAY LOCK BETWEEN VALVES.
- 11) VALVE TAMPER SWITCH CONDUIT TO BUILDING FIRE CONTROL ROOM

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

**FIRE PROTECTION
ASSEMBLY**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-2

NOTES:

NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

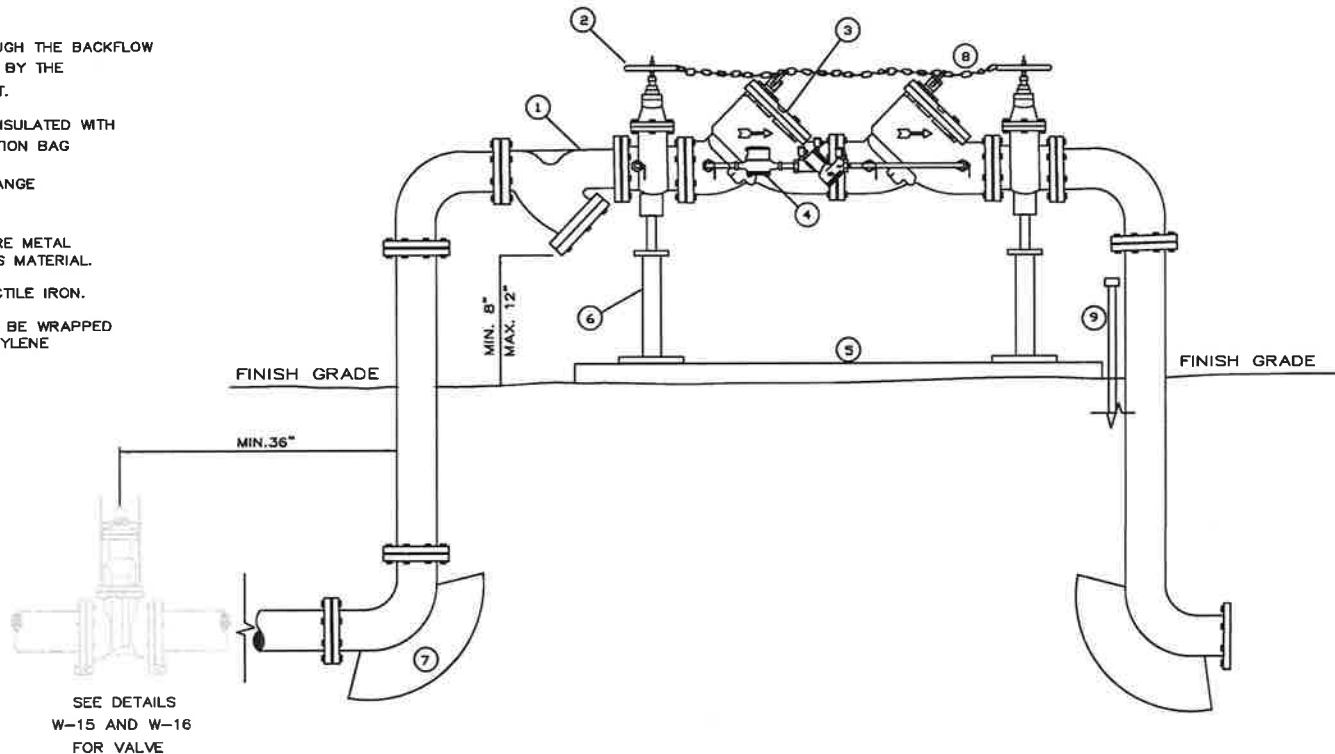
THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG

FITTINGS SHALL BE FLANGE BY FLANGE OR RESTRAINED.

BURIED NUTS AND BOLTS, AND BARE METAL SHALL BE COATED WITH BITUMINOUS MATERIAL.

PIPE AND FITTINGS SHALL BE DUCTILE IRON.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED AND SEALED WITH 8 MIL POLYETHYLENE AND VINYL TAPE.



- 1) FLANGED "Y" TYPE STRAINER
- 2) OS & Y GATE VALVE (TYP.)
- 3) DOUBLE DETECTOR CHECK
- 4) WATER METER
- 5) 3 1/2" THICK REINFORCED CONCRETE SLAB.
- 6) SUPPORTS 2-TYP. SHALL BE BOLTED DOWN WITH A MINIMUM OF TWO BOLTS EACH
- 7) THRUST BLOCK (TYP.)
- 8) 1/4" NON CASE HARDENED CHAIN WITH BREAKAWAY LOCK BETWEEN VALVES.
- 9) VALVE TAMPER SWITCH CONDUIT TO BUILDING FIRE CONTROL ROOM.

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

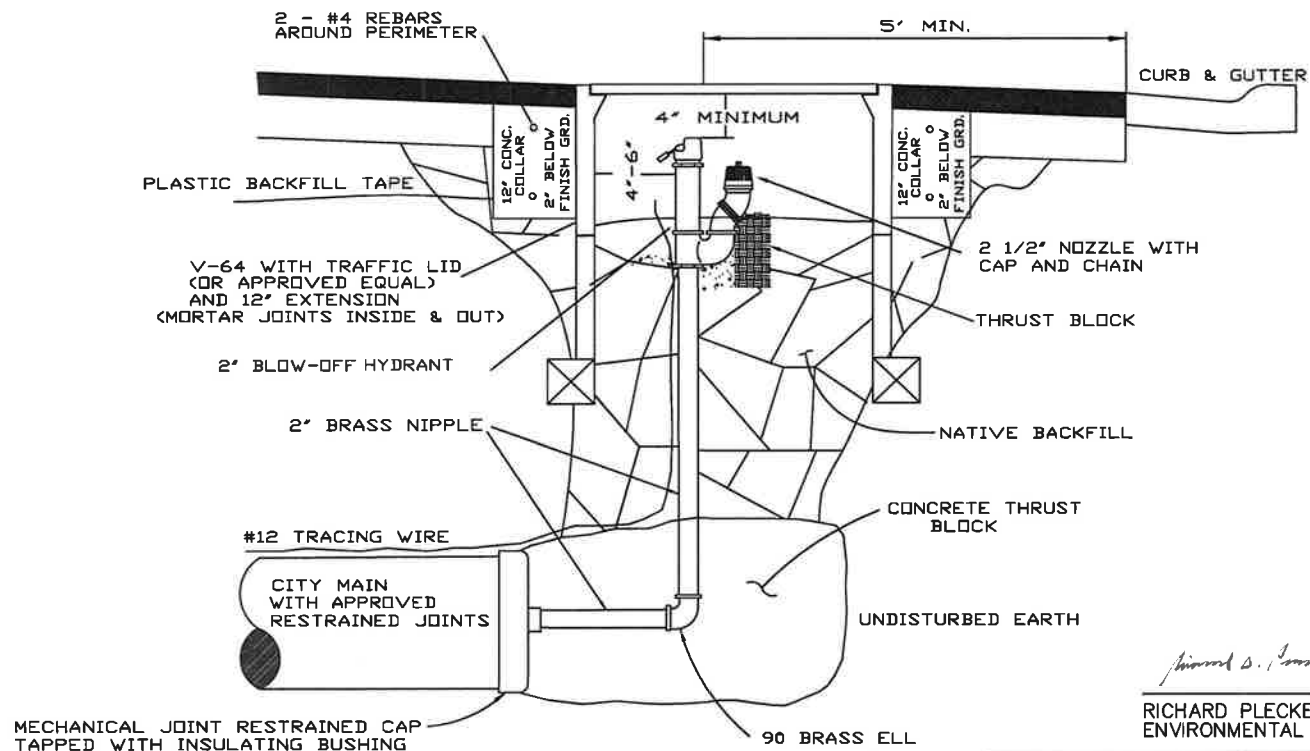


ENVIRONMENTAL UTILITIES
DEPARTMENT

**ONSITE FIRE
PROTECTION**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-3



Richard D. Plecker
 RICHARD PLECKER
 ENVIRONMENTAL UTILITIES DIRECTOR

NOTE:

BURIED BRASS PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE OR APPROVED EQUAL.

BLOWOFFS OUTSIDE OF PAVED AREAS SHALL BE A MINIMUM OF 6" ABOVE GRADE AND MARKED WITH A CARSONITE MARKER.



ENVIRONMENTAL UTILITIES
 DEPARTMENT

**2" BLOWOFF HYDRANT
 ASSEMBLY**

SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

W-4

CURB STAMPED "W"
AT SERVICE LOCATION

NOTES:

WATER METERS SHALL BE PURCHASED THROUGH THE CITY. PURCHASE INCLUDES INSTALLATION.

INSTALL CONCRETE BLOCKING (4"x4"x 15 1/2" SOLID SLUMP BLOCK) UNDER ENTIRE UTILITY BOX PERIMETER TIGHT TO BOTTOM OF BOX NO GAPS ALLOWED

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE OR APPROVED EQUAL.

SEE TAPPING
SADDLE DETAIL
(W-26)

1/2" DRAIN ROCK 2" BELOW IDLER
TO 12" BELOW METER SETTER

- 1) METER SETTER WITH IDLER
- 2) N-30 UTILITY BOX WITH FL 30 METER LID FOR 1" SERVICE
- 3) WATER METER (PURCHASED THROUGH CITY)
- 4) CURB STOP (COMPRESSION X FIPT)
- 5) 4" DIA. RISER (NOTCHED OVER PIPE AT BASE)
- 6) 4" METER SPUD
- 7) BRASS COUPLING (FIPT X FIPT)
- 8) 18" BRASS NIPPLE WITH END CAP (FOR ATTACHED SIDEWALK)
- 9) SCH. 40 PVC THROUGH PIPE EYE
- 10) BRASS-PVC ADAPTER
- 11) 1 1/2" PVC
- 12) PVC END CAP
- 13) 2"x2" RDWD. STAKE PAINTED BLUE

Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF
ROSEVILLE
CALIFORNIA

ENVIRONMENTAL UTILITIES
DEPARTMENT

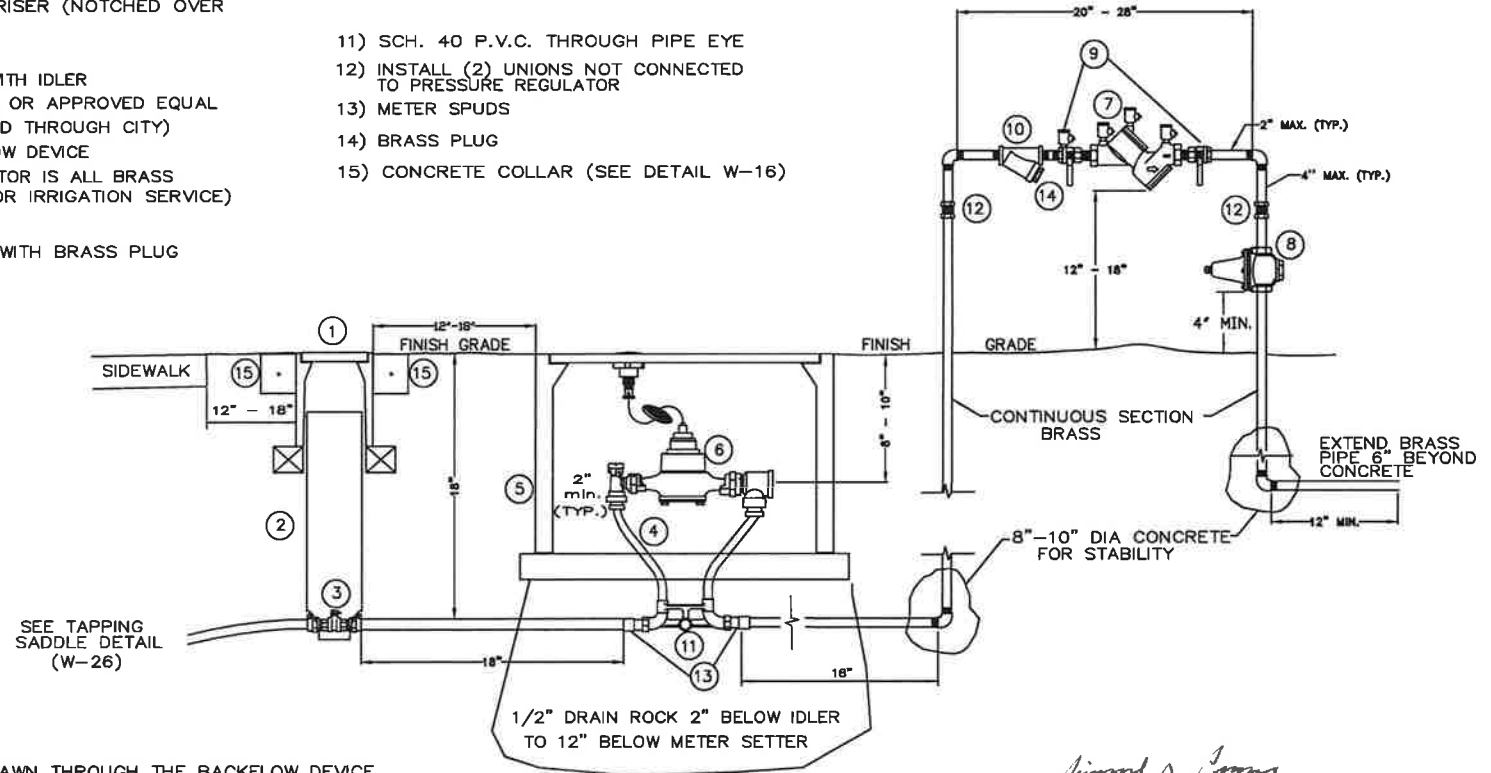
**RESIDENTIAL 1"
SERVICE LINE**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-5

- 1) CONCRETE VALVE BOX (G-5 PER DETAIL W-16)
- 2) 6" CONTINUOUS RISER (NOTCHED OVER PIPE AT BASE)
- 3) CURB STOP
- 4) METER RESETTER WITH IDLER
- 5) N-16 UTILITY BOX OR APPROVED EQUAL
- 6) METER (PURCHASED THROUGH CITY)
- 7) R.P. TYPE BACKFLOW DEVICE
- 8) PRESSURE REGULATOR IS ALL BRASS (NOT REQUIRED FOR IRRIGATION SERVICE)
- 9) BALL VALVES
- 10) BRASS STRAINER WITH BRASS PLUG

- 11) SCH. 40 P.V.C. THROUGH PIPE EYE
- 12) INSTALL (2) UNIONS NOT CONNECTED TO PRESSURE REGULATOR
- 13) METER SPUDS
- 14) BRASS PLUG
- 15) CONCRETE COLLAR (SEE DETAIL W-16)



NOTES:

NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

ALL FITTINGS AND PIPING SHALL BE BRASS BEGINNING AT CURB STOP

IF USED FOR IRRIGATION DO NOT INCLUDE PRESSURE REGULATOR.

INSTALL CONCRETE BLOCKING (4" X 4" X 15 1/2" SOLID SLUMP BLOCK) UNDER PERIMETER OF UTILITY BOXES.

WATER METERS SHALL BE PURCHASED THROUGH THE CITY. PURCHASE INCLUDES INSTALLATION.

THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE OR APPROVED EQUAL.

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

COMMERCIAL 3/4" & 1"
SERVICE LINE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-6

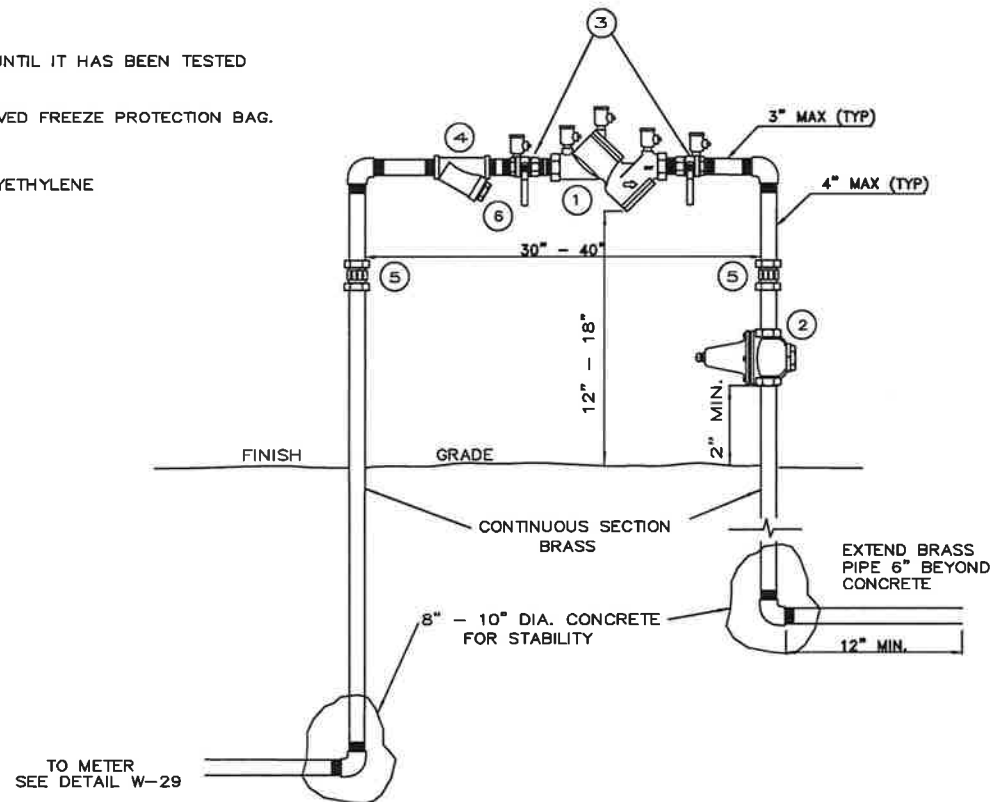
NOTES:

NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.

FITTINGS AND PIPING SHALL BE BRASS.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE OR APPROVED EQUAL.



Richard D. Larson
 RICHARD PLECKER
 ENVIRONMENTAL UTILITIES DIRECTOR

- 1) R.P. TYPE BACKFLOW DEVICE
- 2) BRASS PRESSURE REGULATOR
(NOT NEEDED FOR IRRIGATION)
- 3) BALL VALVES
- 4) BRASS "Y" STRAINER WITH BRASS PLUG.
- 5) INSTALL (2) UNIONS NOT CONNECTED
TO REGULATOR
- 6) BRASS PLUG



ENVIRONMENTAL UTILITIES
 DEPARTMENT

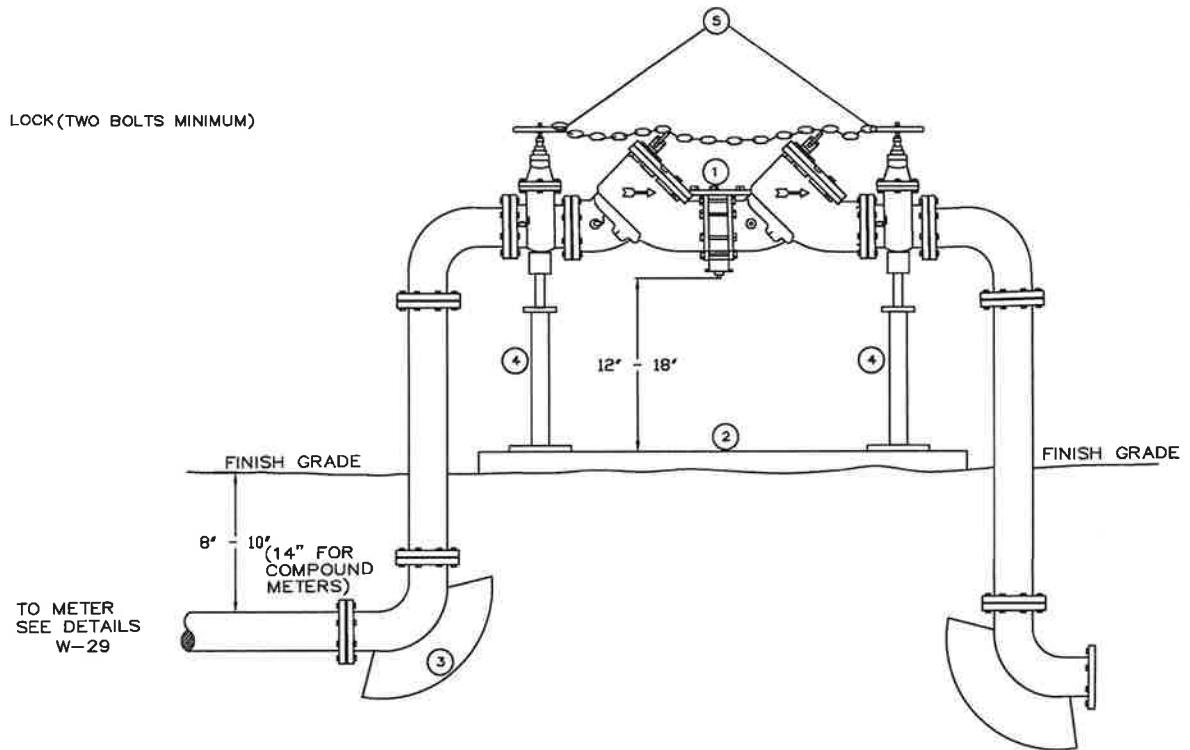
IRRIGATION/COMMERCIAL
 1 1/2" & 2" SERVICE LINE

SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

W-7

MATERIALS:

- 1) R.P. TYPE BACKFLOW DEVICE (CITY APPROVED)
- 2) 4" THICK REINFORCED CONCRETE SLAB
- 3) THRUST BLOCKS (TYP.)
- 4) SUPPORT STANDS BOLTED INTO CONCRETE
- 5) 1/4" NON-CASE HARDENED CHAIN WITH BREAKAWAY LOCK (TWO BOLTS MINIMUM)



NOTES:

NO WATER IS TO BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

PIPE SHALL BE DUCTILE IRON.

PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL. POLYETHYLENE

USE CITY APPROVED RESTRAINED JOINTS OR FLANGED SPOOLS

THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

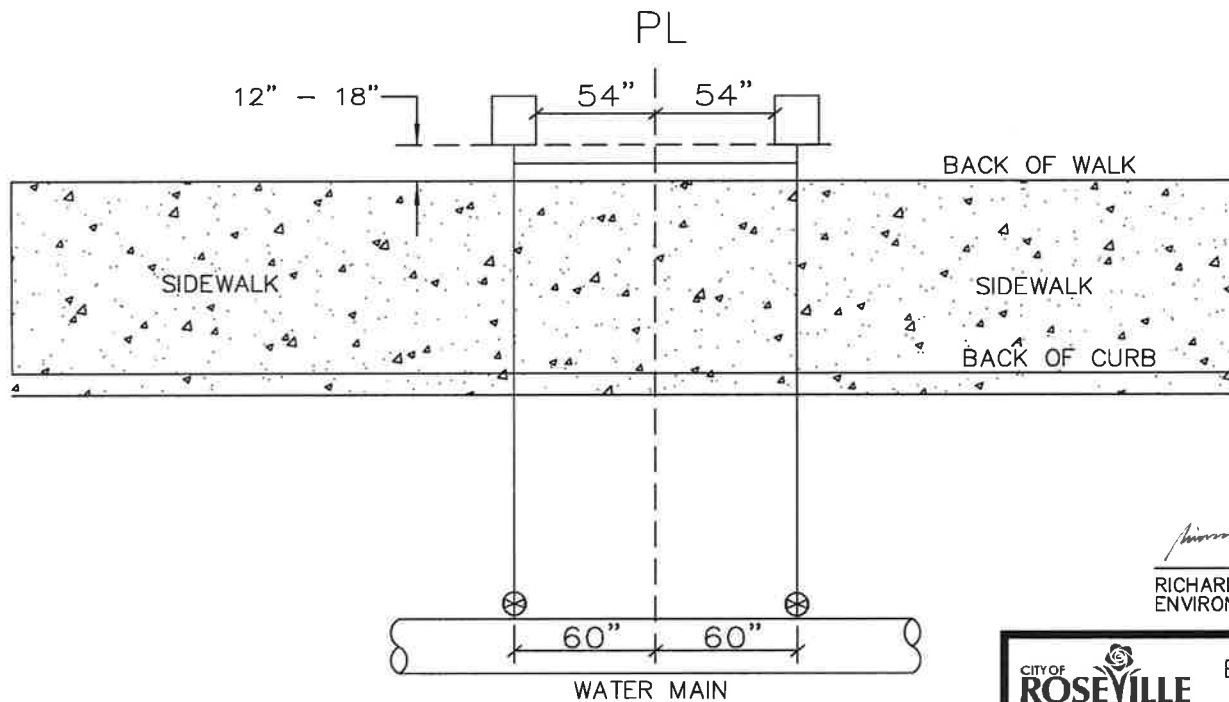


ENVIRONMENTAL UTILITIES
DEPARTMENT

COMMERCIAL 3" & LARGER
SERVICE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-8



NOTE: REFER TO DETAIL W-18 FOR "WATER SERVICE TRENCH AND BACKFILL"

Richard D. Plecker
 RICHARD PLECKER
 ENVIRONMENTAL UTILITIES DIRECTOR

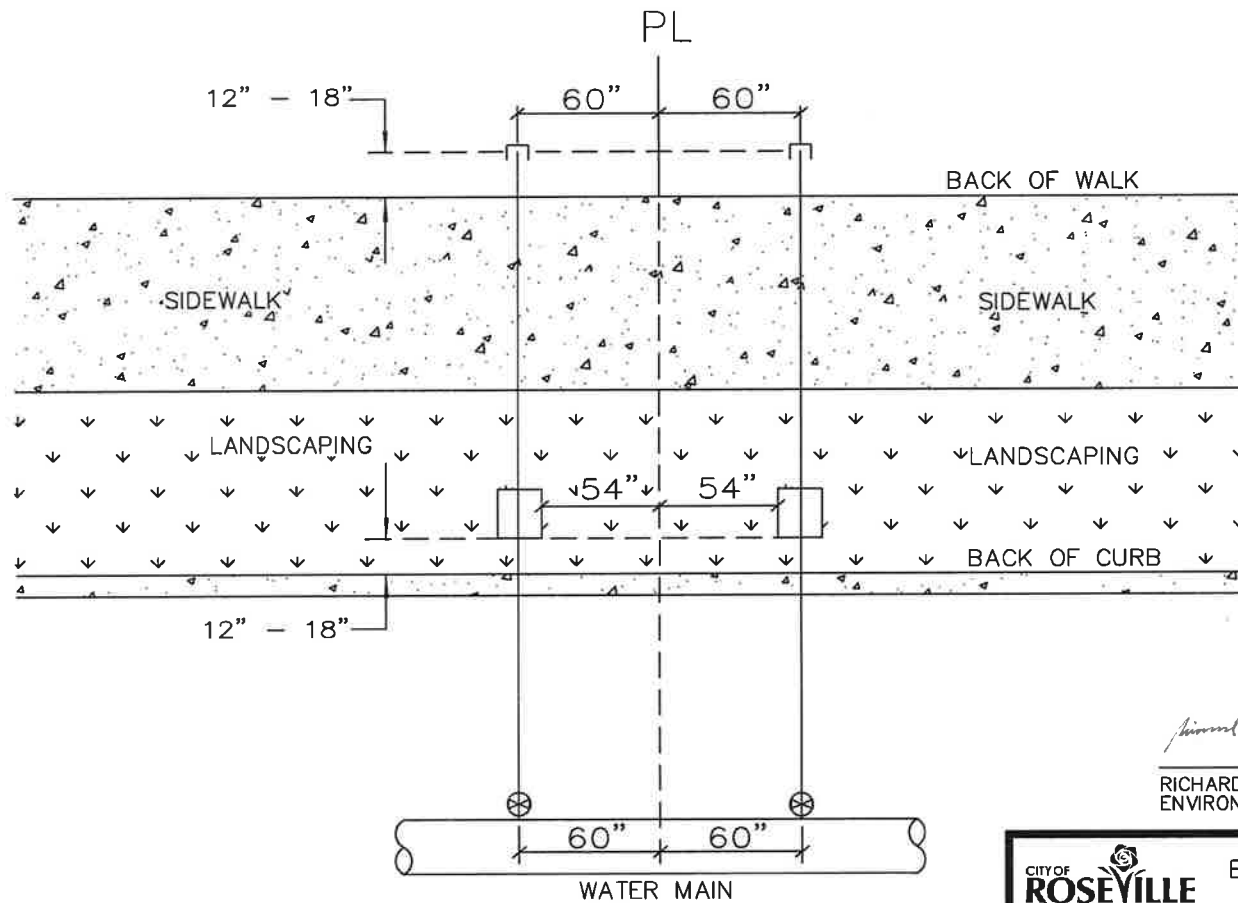
CITY OF
ROSEVILLE
 CALIFORNIA

ENVIRONMENTAL UTILITIES
 DEPARTMENT

RESIDENTIAL WATER SERVICE

SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

W-9



NOTE: REFER TO DETAIL W-18 FOR "WATER SERVICE TRENCH AND BACKFILL"

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



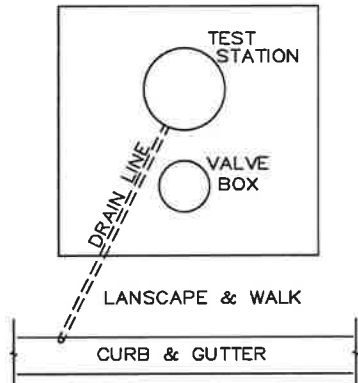
ENVIRONMENTAL UTILITIES
DEPARTMENT

RESIDENTIAL WATER SERVICE FOR SEPARATED SIDEWALKS

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

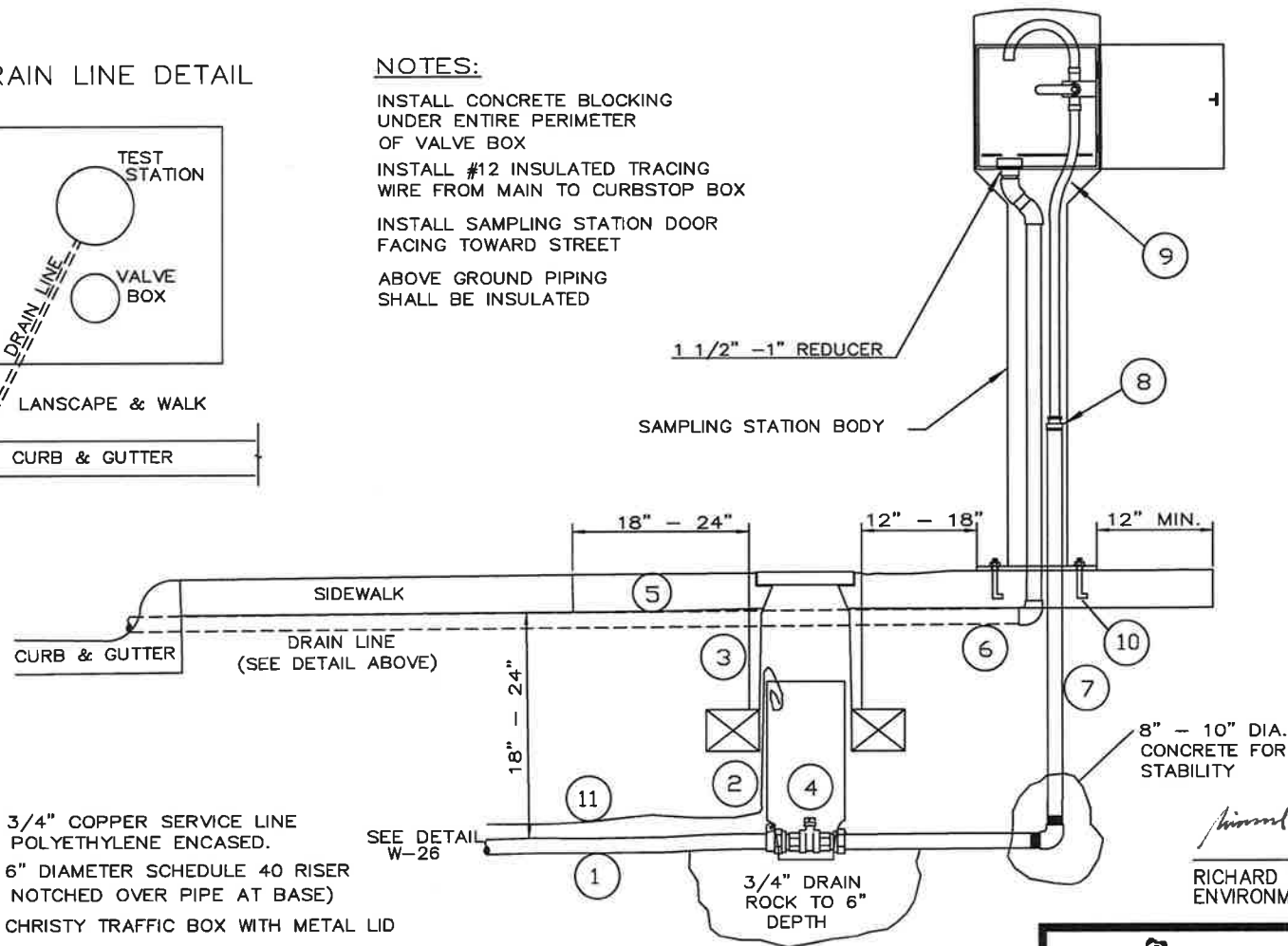
W-10

DRAIN LINE DETAIL



NOTES:

- INSTALL CONCRETE BLOCKING UNDER ENTIRE PERIMETER OF VALVE BOX
- INSTALL #12 INSULATED TRACING WIRE FROM MAIN TO CURBSTOP BOX
- INSTALL SAMPLING STATION DOOR FACING TOWARD STREET
- ABOVE GROUND PIPING SHALL BE INSULATED



- 1) 3/4" COPPER SERVICE LINE POLYETHYLENE ENCASED.
- 2) 6" DIAMETER SCHEDULE 40 RISER NOTCHED OVER PIPE AT BASE)
- 3) CHRISTY TRAFFIC BOX WITH METAL LID
- 4) CURBSTOP
- 5) 3 1/2" THICK REINFORCED CONCRETE SLAB
- 6) 1" SCH. 40 PVC DRAIN TO GUTTER
- 7) 3/4" BRASS PIPE
- 8) 3/4" TO 1/2" REDUCER (BRASS)
- 9) 1/2" COPPER TUBING
- 10) (4) ANCHOR BOLTS WITH WASHERS & NUTS
- 11) INSTALL TRACING WIRE FROM MAIN TO CURB STOP. PLACE WIRE OUTSIDE THE RISER, BUT INSIDE THE BOX.

SEE DETAIL
W-26

3/4" DRAIN
ROCK TO 6"
DEPTH

8" - 10" DIA.
CONCRETE FOR
STABILITY

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

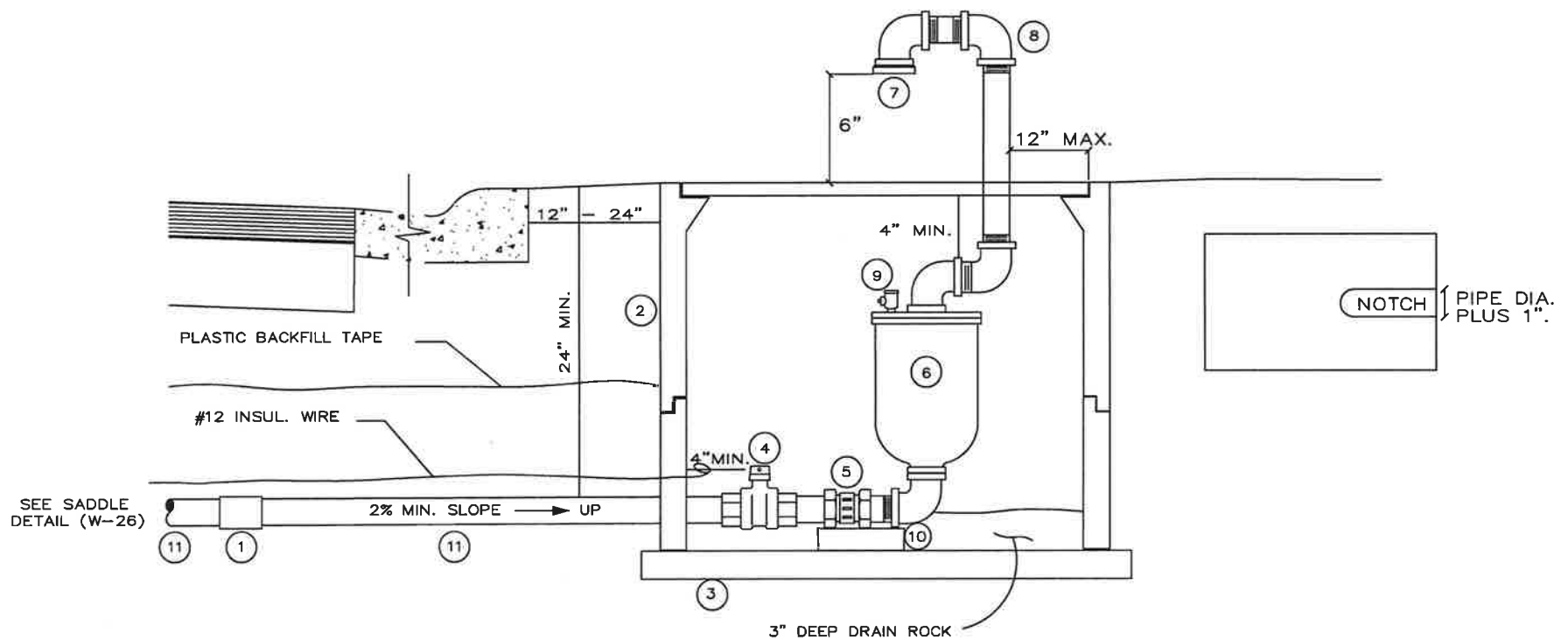


ENVIRONMENTAL UTILITIES
DEPARTMENT

SAMPLING STATION

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-11



- 1) BRASS THREADED COUPLING (IF REQUIRED)
- 2) B-40 UTILITY BOX W/TRAFFIC COVER MARKED, "RSVL ARV"
IF EXTENSION IS REQ. MOTAR EXTENSION JOINT INSIDE & OUT.
- 3) CONCRETE BLOCKING (4X4X15 1/2" SOLID SLUMP BLOCK UNDER
ENTIRE PERIMETER OF UTILITY BOX.
- 4) CURB STOP
- 5) BRASS UNION
- 6) COMBINATION AIR / VACUUM VALVE
- 7) BRASS CAP WITH 9 DRILLED 1/16" HOLES OR APPROVED EQUAL.
- 8) USE GALVANIZED PIPE AND FITTINGS ABOVE GROUND
- 9) 1/4" TEST COCK
- 10) CONCRETE BLOCK FOR SUPPORT
- 11) THREADED BRASS PIPE

NOTE:

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL
POLYETHYLENE OR APPROVED EQUAL.

Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

1" AND 2" AIR RELEASE VALVE ASSEMBLY

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-12

NOTES:

FITTINGS SHALL BE DUCTILE IRON

VALVES AND FITTINGS SHALL BE WRAPPED
IN 8 MIL. OR THICKER POLYETHYLENE.

BURIED NUTS AND BOLTS SHALL BE COATED WITH A
BITUMINOUS MATERIAL. *T* BOLT HEADS DO NOT
REQUIRE COATING.

HYDRANT BOLTS SHALL BE BREAK AWAY TYPE
INSTALLED NUT SIDE UP AND FILLED
WITH 25 YEAR SILICONE CAULK.

VALVE SHALL BE A MINIMUM OF 15' FROM HYDRANT.

USE APPROVED RESTRAINING JOINTS FROM
VALVE TO HYDRANT BURY.

MARK THE LOCATION OF THE HYDRANT WITH A BLUE
REFLECTOR PLACED 1' OFF STREET CENTERLINE.
HYDRANTS LOCATED AT INTERSECTIONS SHALL BE MARKED
ON BOTH STREETS, PER PROVISIONS IN SECTION 84
OF THE CALTRANS SPECIFICATIONS.

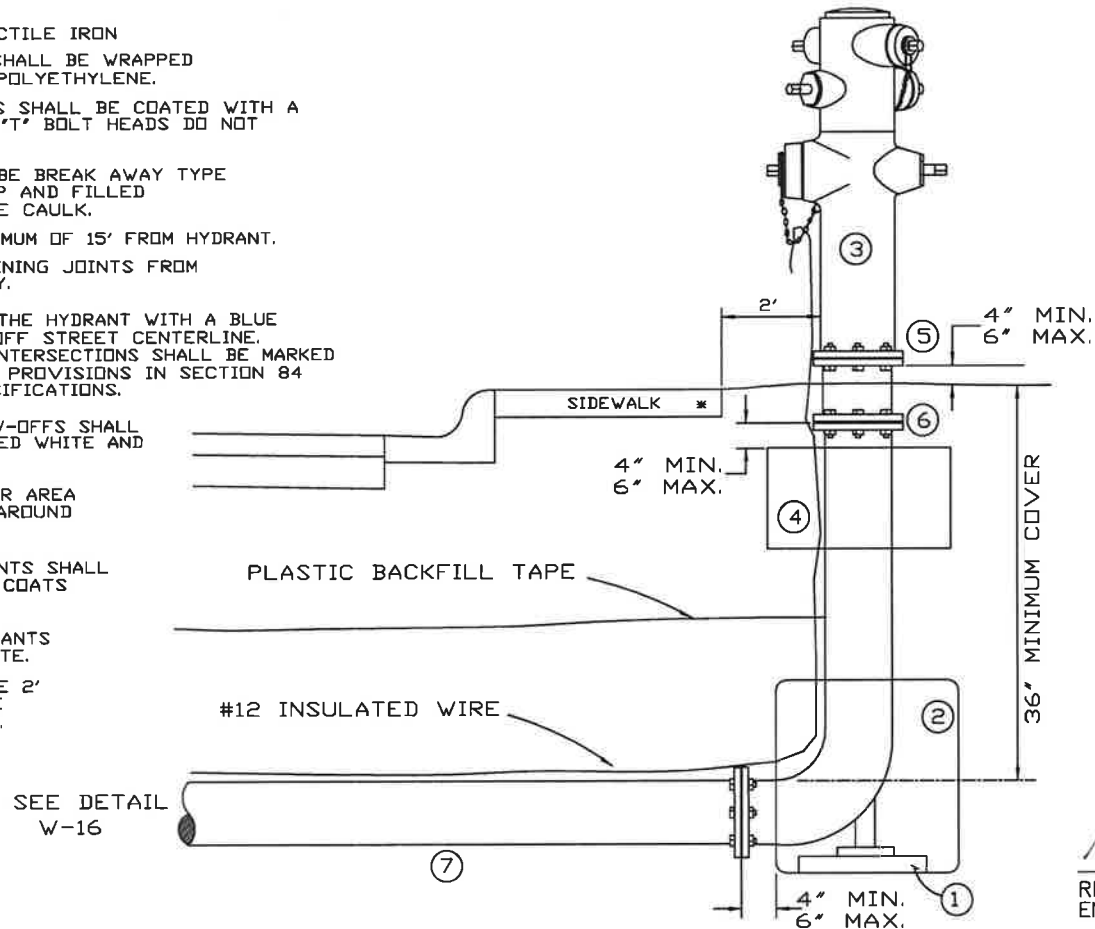
HYDRANTS USED AS BLOW-OFFS SHALL
HAVE THE TOP 2' PAINTED WHITE AND
BE MARKED WITH AN 'X'.

A MINIMUM 3 FOOT CLEAR AREA
SHALL BE MAINTAINED AROUND
THE FIRE HYDRANT.

CITY MAINTAINED HYDRANTS SHALL
BE PAINTED WITH TWO COATS
SAFETY-YELLOW.

PRIVATELY OWNED HYDRANTS
SHALL BE PAINTED WHITE.

* - HYDRANTS SHALL BE 2'
BEHIND CURB WHEN THE
SIDEWALK IS DETACHED.



Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

MATERIALS:

- 1) CONCRETE BLOCKING
- 2) CONCRETE SUPPORT AGAINST
UNDISTURBED SOIL
- 3) FIRE HYDRANT (LEAD FREE)
- 4) 12" X 12" X 12" CONCRETE COLLAR FOR STABILITY
- 5) BREAK AWAY SPOOL WITH BREAK AWAY
BOLTS ON HYDRANT FLANGE ONLY
- 6) NON-BREAKAWAY BOLTS
- 7) DUCTILE IRON PIPE ENTIRE LENGTH

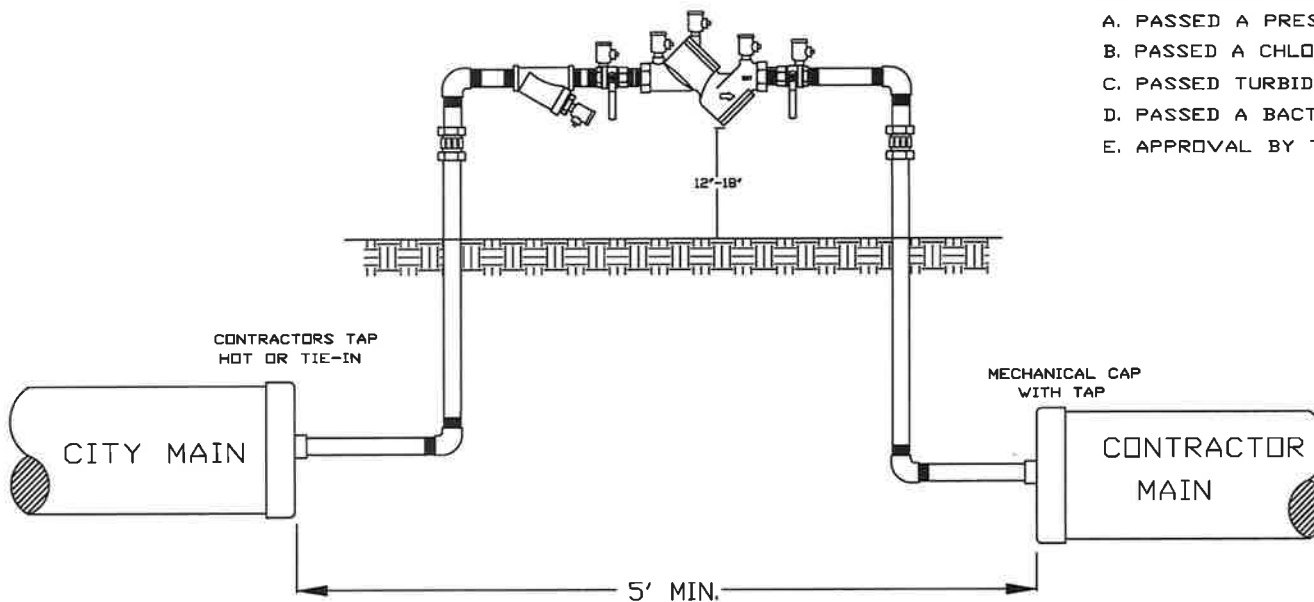


ENVIRONMENTAL UTILITIES
DEPARTMENT

FIRE HYDRANT ASSEMBLY

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-13



PRIOR TO CONNECTION TO THE CITY MAIN,
THE FOLLOWING CONDITIONS SHALL BE MET:

- A. PASSED A PRESSURE TEST
- B. PASSED A CHLORINE TEST
- C. PASSED TURBIDITY TEST
- D. PASSED A BACTII TEST
- E. APPROVAL BY THE EUD INSPECTOR

NOTES:

WATER SHALL ONLY BE DRAWN INTO THE CONTRACTORS MAIN THROUGH A CITY APPROVED RP TYPE BACKFLOW DEVICE WHICH HAS BEEN TESTED AND TAGGED BY THE ENVIRONMENTAL UTILITIES DEPARTMENT.

FINAL SYSTEM COMPONENTS NECESSARY FOR TIE-IN SHALL BE PRE-CHLORINATED AND PRE-FLUSHED IN THE PRESENCE OF AN ENVIRONMENTAL UTILITIES DEPARTMENT INSPECTOR.

UPON COMPLETION OF THE CONDITIONS NOTED ABOVE AND WITH THE APPROVAL OF THE EUD INSPECTOR, CONNECTION TO THE CITY SYSTEM MAY BE MADE. THE EUD INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF WORK.

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ENVIRONMENTAL UTILITIES DIRECTOR

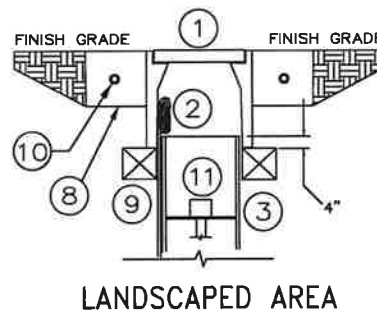
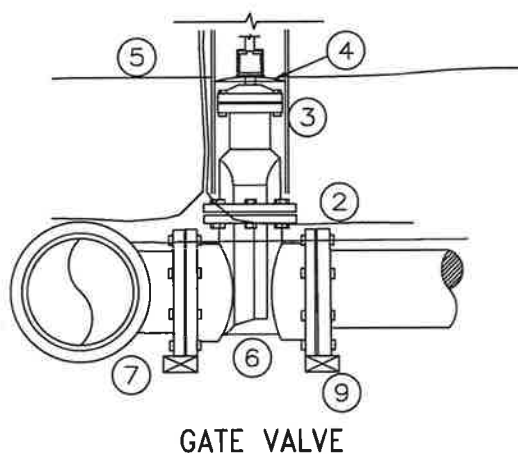
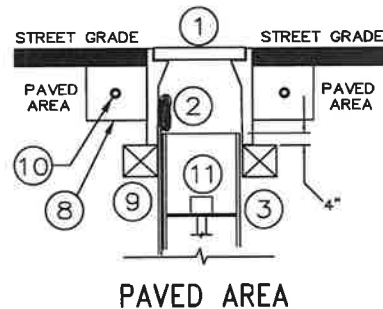
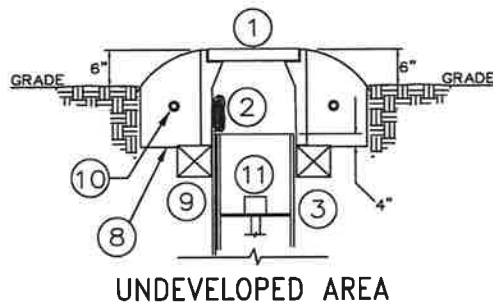


CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES DEPT.

CONSTRUCTION WATER DETAIL

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-14



MATERIALS

- 1) CONCRETE VALVE BOX
- 2) #12 INSULATED TRACING WIRE OUTSIDE RISER
- 3) 8" RISER STOCK
- 4) RISER ALIGNER
- 5) PLASTIC BACKFILL TAPE
- 6) GATE VALVE
- 7) DUCTILE IRON TEE
- 8) CONCRETE COLLAR (SEE NOTES)
- 9) SLUMP BLOCKING (SEE NOTES)
- 10) #4 REBAR AROUND CIRCUM. (TYP.)
- 11) VALVE EXTENSION PER SECTION 81-12.B

NOTES:

TRACING WIRE THROUGH VALVE BOXES SHALL BE PLACED OUTSIDE OF RISER BUT INSIDE OF BOX.

TRACING WIRE SHALL BE SPLICED INSIDE THE VALVE BOX PER (W-17) AND SHALL LOOP WITHIN THE VALVE BOX WITH 18" OF SLACK WIRE

ALL GATE VALVES SHALL BE CENTERED IN A ONE PIECE RISER STOCK WITH THE USE OF A RISER ALIGNER

OPERATOR NUTS DEEPER THAN 40 INCHES FROM FINISH GRADE SHALL REQUIRE A VALVE NUT EXTENSION 2 FEET MINIMUM IN LENGTH.

VALVE BOXES LOCATED IN A PAVED AREA SHALL BE PLACED IN A 6" X 6" CONCRETE COLLAR A MINIMUM OF 3" BELOW PAVEMENT

VALVE BOXES LOCATED IN A LANDSCAPED AREA SHALL BE PLACED IN A 6" X 6" CONCRETE COLLAR AT FINISHED GRADE.

VALVE BOXES LOCATED IN AN UNDEVELOPED AREA SHALL BE PLACED IN A 12" DEEP BY 6" WIDE CONCRETE COLLAR 6 INCHES ABOVE GRADE.

INSTALL (4" X 4" SOLID SLUMP BLOCK) UNDER ENTIRE PERIMETER OF BOX.

VALVES AND FITTINGS SHALL BE WRAPPED AND SEALED IN 8 MIL POLYETHYLENE

VALVE RISOR STOCK SHALL BE A MINIMUM OF 4" INSIDE VALVE BOX

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ENVIRONMENTAL UTILITIES DIRECTOR

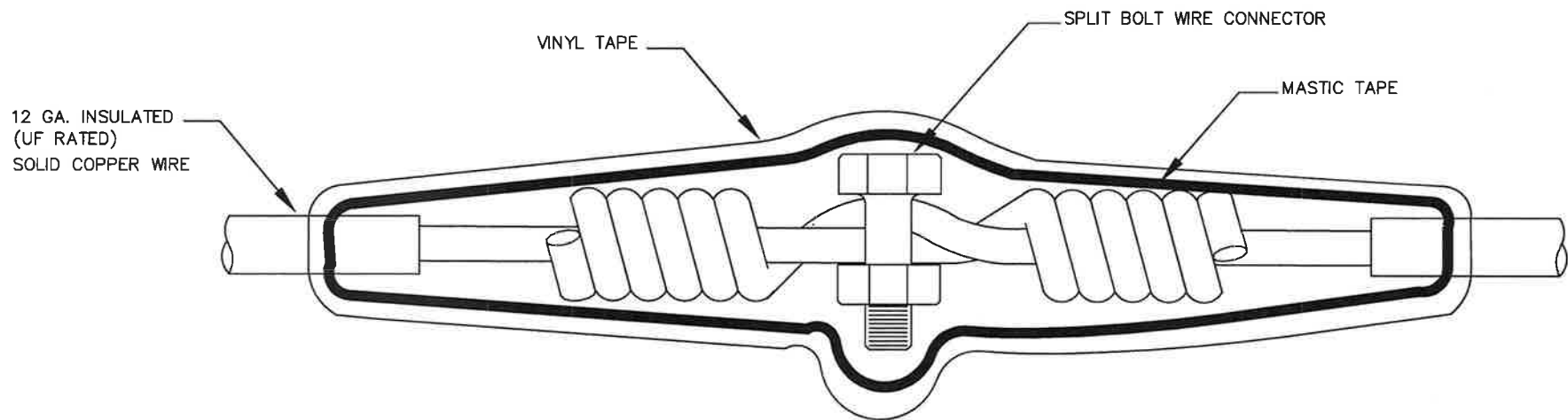


ENVIRONMENTAL UTILITIES
DEPARTMENT

GATE VALVE & BOX

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-16



NOTES:

1. TWIST THE WIRE A MINIMUM OF (5) TIMES ON EACH END.
2. INSTALL SPLIT BOLT CONNECTOR.
3. SOLDER WIRE
4. COVER THE ENTIRE SPLICE WITH MASTIC TAPE WRAP
5. WRAP MASTIC WITH VINYL TAPE.
6. WIRE SPLICES SHALL BE LOCATED WITHIN A VALVE BOX PER DETAIL W-16.

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ENVIRONMENTAL UTILITIES DIRECTOR

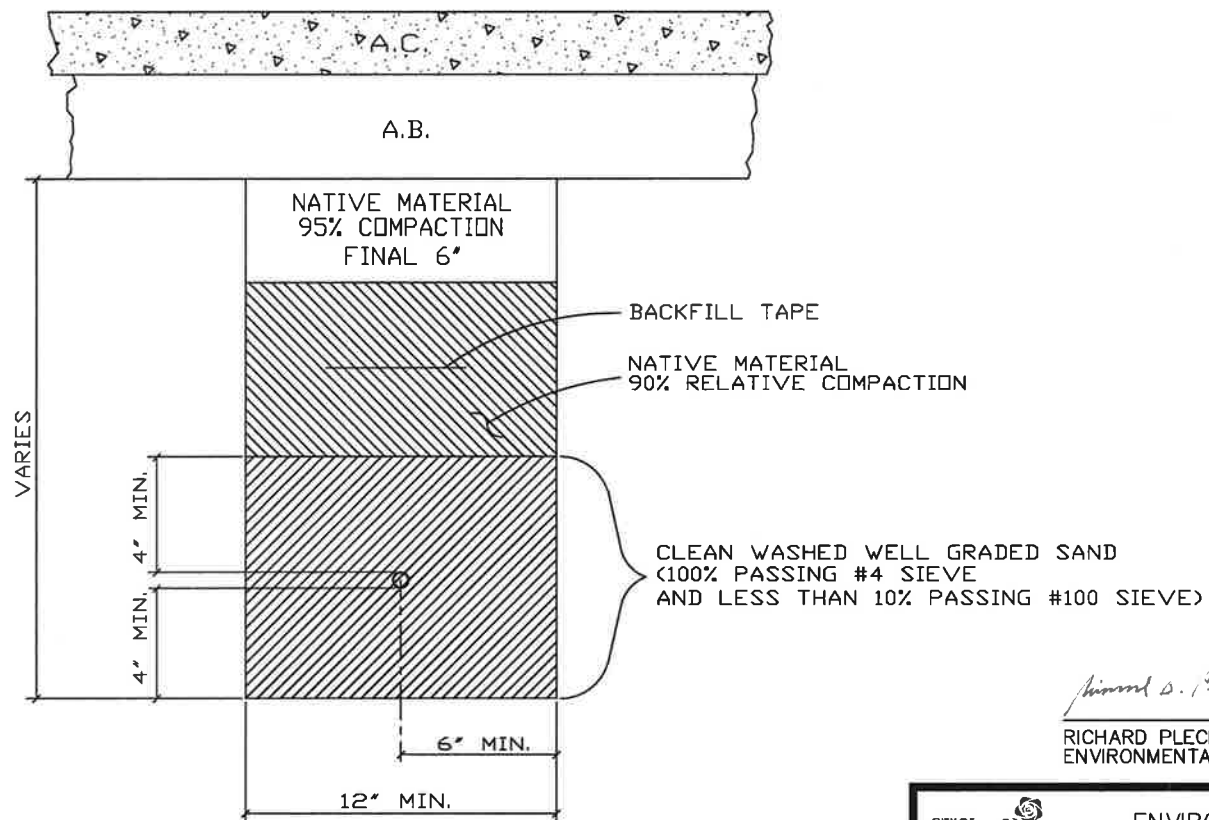


ENVIRONMENTAL UTILITIES
DEPARTMENT

TRACING WIRE SPLICE

SCALE: NONE
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DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-17



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ENVIRONMENTAL UTILITIES
 DEPARTMENT

TRENCH AND BACKFILL FOR ALL
 WATER LINES 2" AND SMALLER

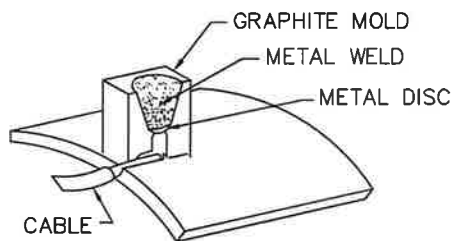
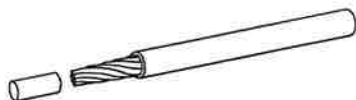
SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

W-18

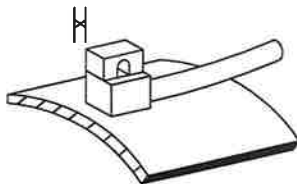
1) FILE TO BARE METAL & CLEAN OVER SURFACE



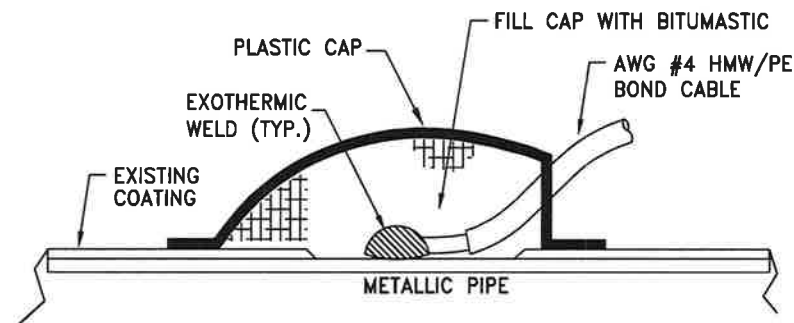
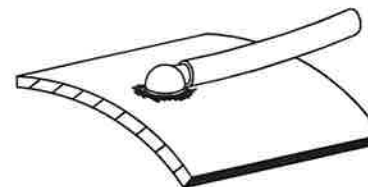
2) STRIP INSULATION FROM WIRE AND ATTACH SLEEVE



3) HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR, IGNITE WITH FLINT GUN



4) REMOVE SLAG FROM CONNECTION, COVER CONNECTION WITH COMPATIBLE COATING AND CAP OVER ALL EXPOSED METAL



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NOTE:
EACH JOINT SHALL HAVE TWO
SEPARATE WELD WIRES.

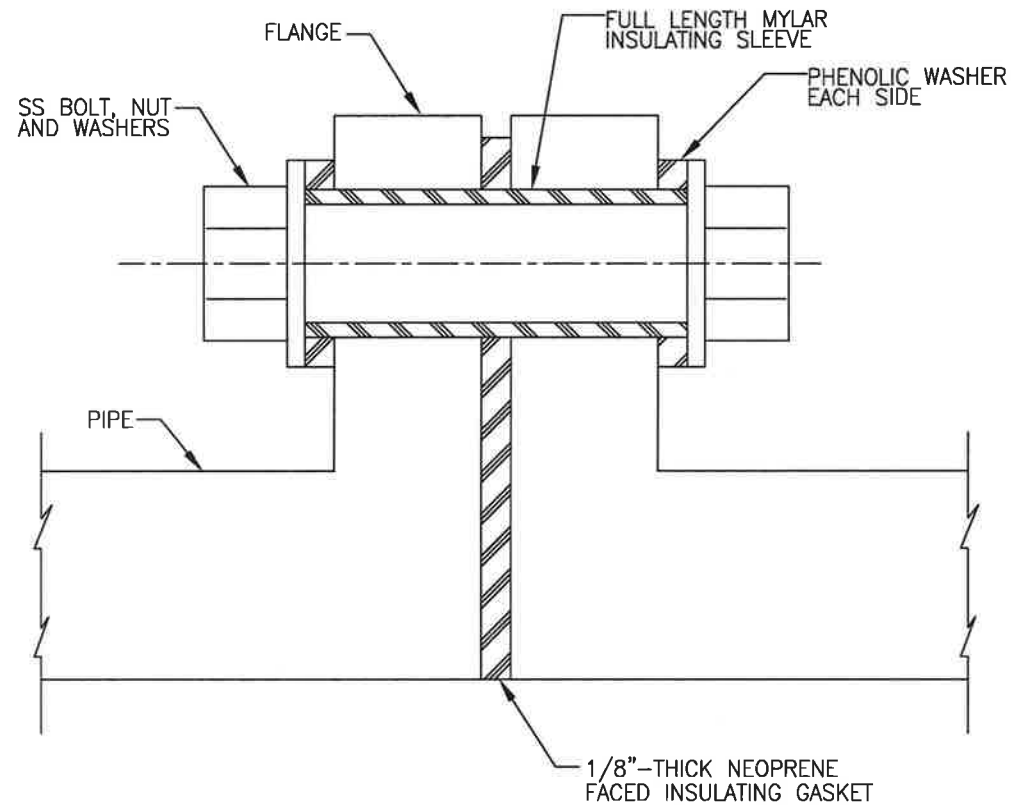
CITY OF
ROSEVILLE
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ENVIRONMENTAL UTILITIES
DEPARTMENT

EXOTHERMIC WELD

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-20



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 ENVIRONMENTAL UTILITIES DIRECTOR

NOTES:

1. DIELECTRIC FLANGE KITS SHALL BE MANUFACTURED BY F.H. MALONEY CP., CALPICO OR APPROVED EQUAL
2. PROVIDE AN INSULATING FLANGE TEST STATION FOR THE INSULATED FLANGE.

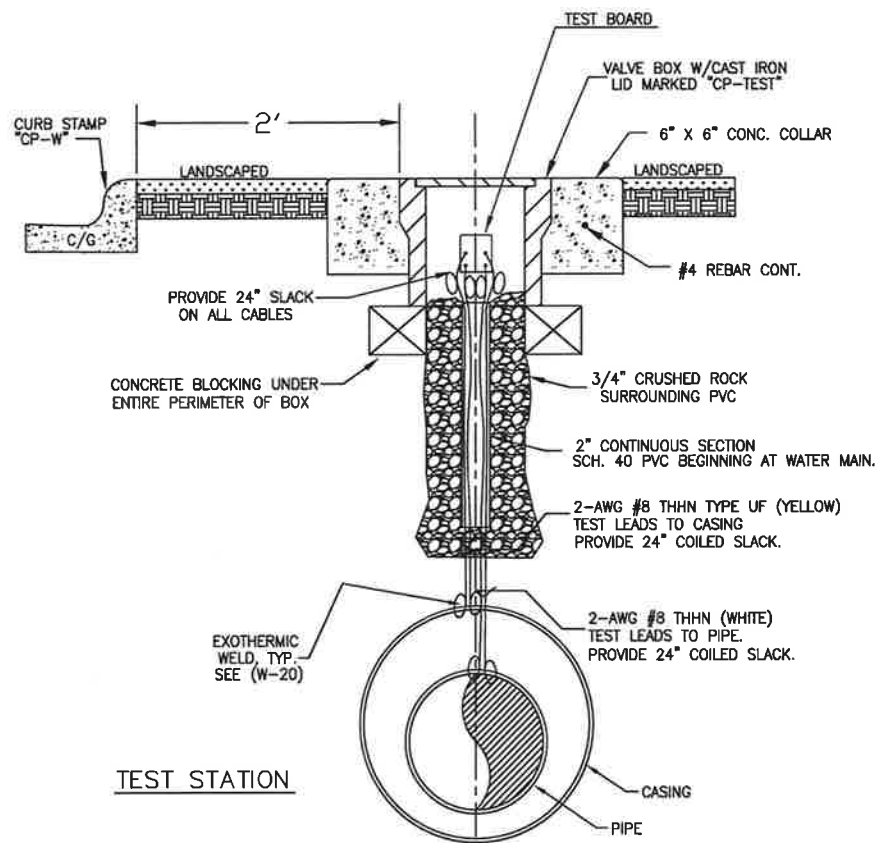


ENVIRONMENTAL UTILITIES
 DEPARTMENT

INSULATED FLANGE

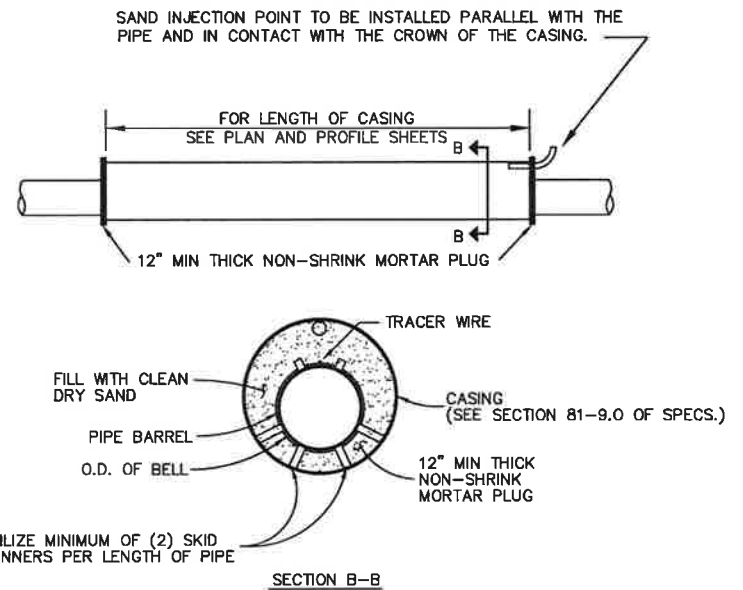
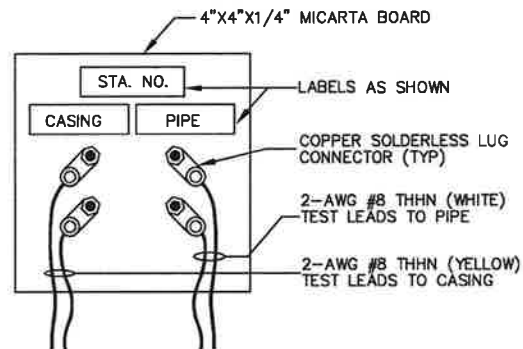
SCALE: NONE
 REVISED: JANUARY 2015
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

W-21



TEST STATION

TEST BOARD



NOTES:

1. THE MINIMUM STRENGTH FOR STEEL CASING SHALL BE 35,000 PSI
2. 18 MIL COAL TAR EPOXY SHALL BE APPLIED ON THE INSIDE & OUTSIDE OF THE STEEL CASING.
3. RESTRAINED PIPE WITHIN CASINGS OR BRIDGES SHALL BE FULLY EXTENDED OR "STRETCHED OUT" TO REMOVE THE SLACK BETWEEN THE JOINTS THE ENTIRE LENGTH OF THE STRUCTURE.

CASING DETAIL

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ENVIRONMENTAL UTILITIES DIRECTOR

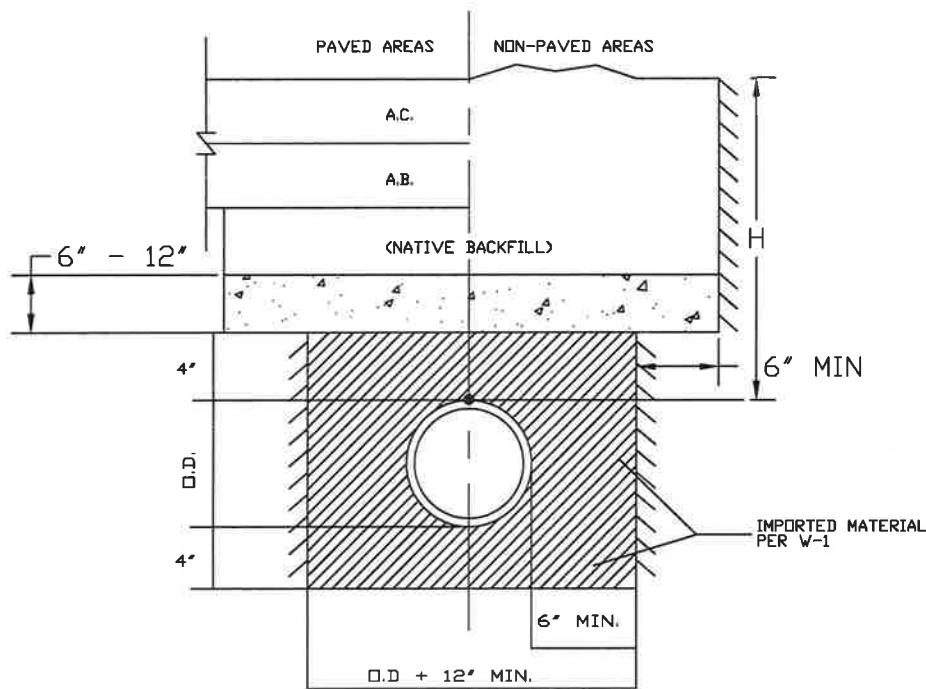


ENVIRONMENTAL UTILITIES
DEPARTMENT

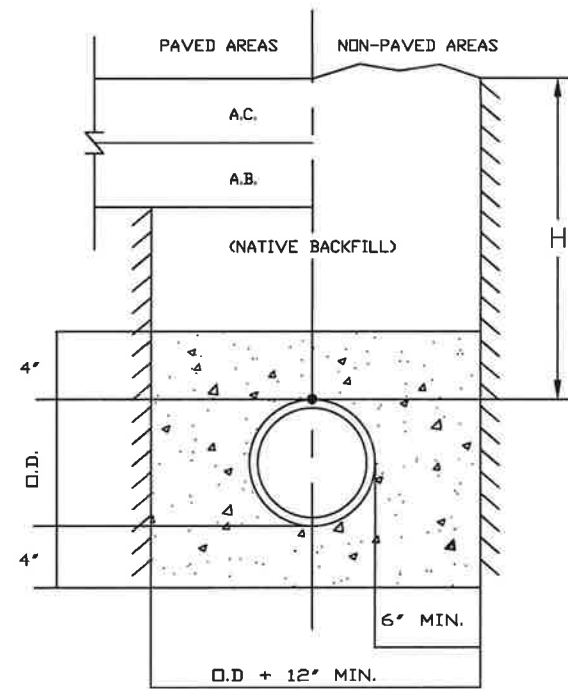
CASING & TEST STATION

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-22



CONCRETE CAP



CONCRETE ENCASEMENT

APPLICATION:

- WHERE $30" < H < 36"$, USE DIP ONLY
- WHERE $20" < H < 30"$
 - WITH SERVICES, USE DIP AND CONCRETE CAP
 - WITHOUT SERVICES, USE DIP AND CONCRETE ENCASE (WRAP DIP IN FOAM PRIOR TO ENCASEMENT)
- WHERE $H < 20"$, REDESIGN WATERLINE

NOTE:

THIS DETAIL SHALL BE USED ON A CASE-BY-CASE BASIS WITH THE APPROVAL OF THE EUD DIRECTOR. IN MOST CASES, THE 36" MINIMUM COVER SHALL PREVAIL.

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ENVIRONMENTAL UTILITIES DIRECTOR

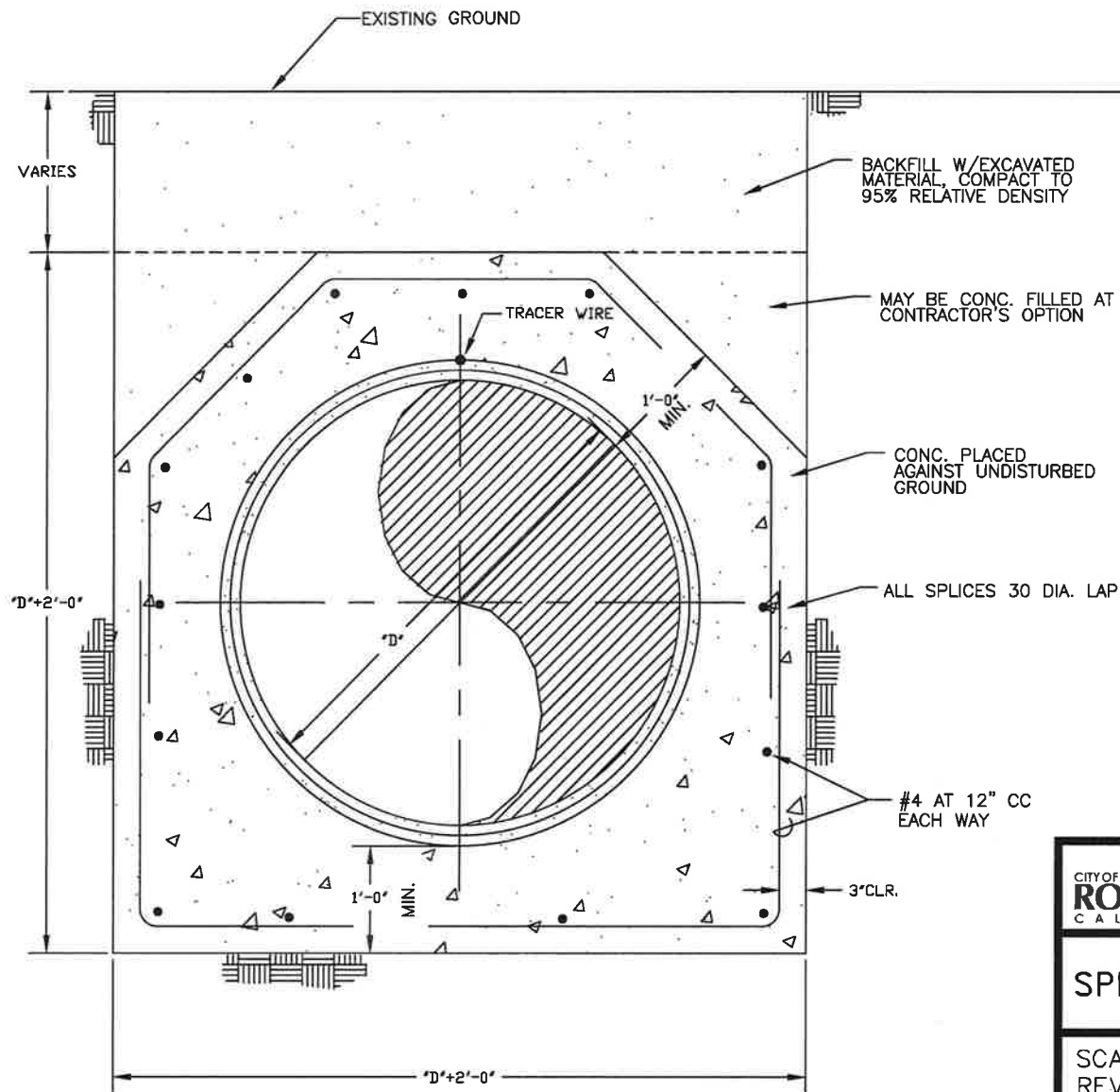


ENVIRONMENTAL UTILITIES
DEPARTMENT

SHALLOW WATER MAINS

SCALE: NONE
REVISED: JANUARY 2015
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-23



NOTES:

1. RESTRAINED PIPE WITHIN CASINGS OR BRIDGES SHALL BE FULLY EXTENDED OR "STRETCHED OUT" TO REMOVE THE SLACK BETWEEN THE JOINTS THE ENTIRE LENGTH OF THE STRUCTURE.

Richard D. Plecker

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ENVIRONMENTAL UTILITIES DIRECTOR



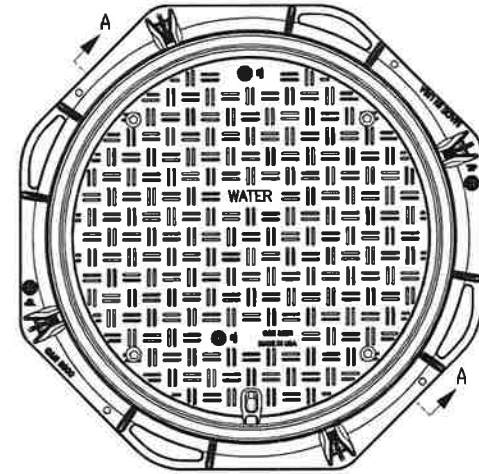
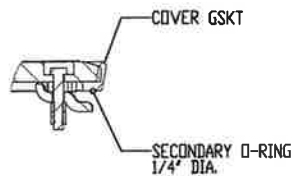
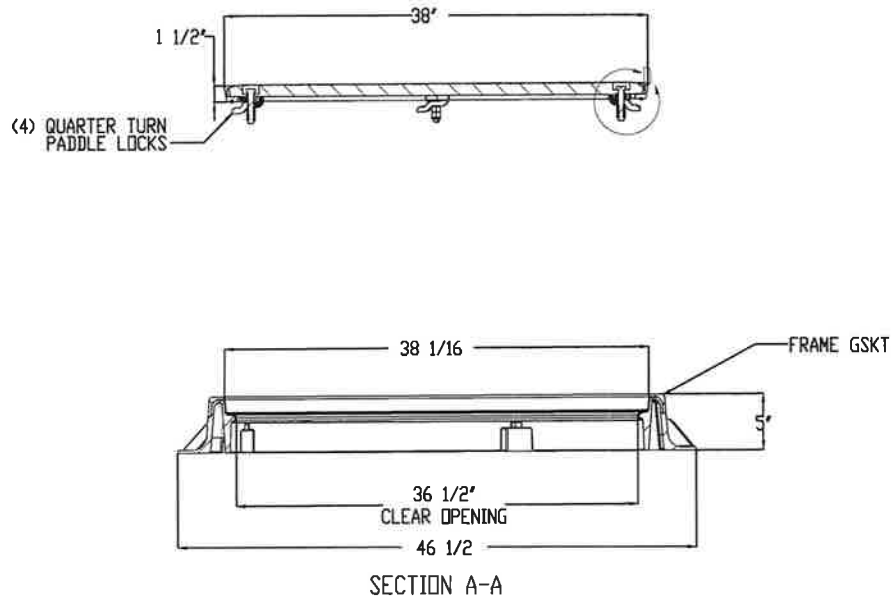
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DEPARTMENT

SPECIAL CONCRETE ENCASEMENT

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
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W-24

Cover and Frame Assembly



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ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

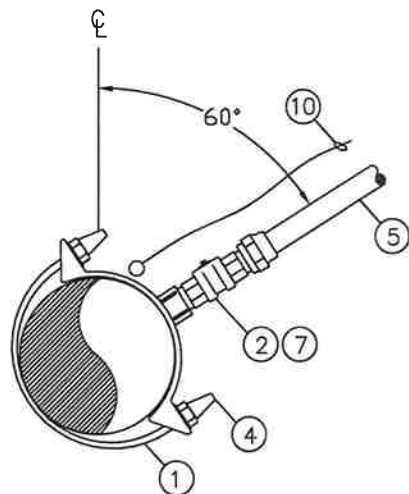
36" MANHOLE RING AND COVER

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

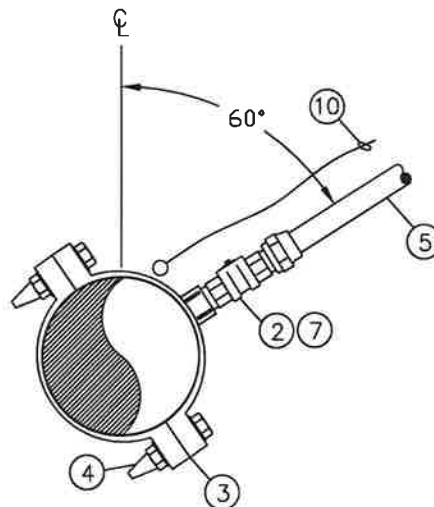
W-25

NOTES:

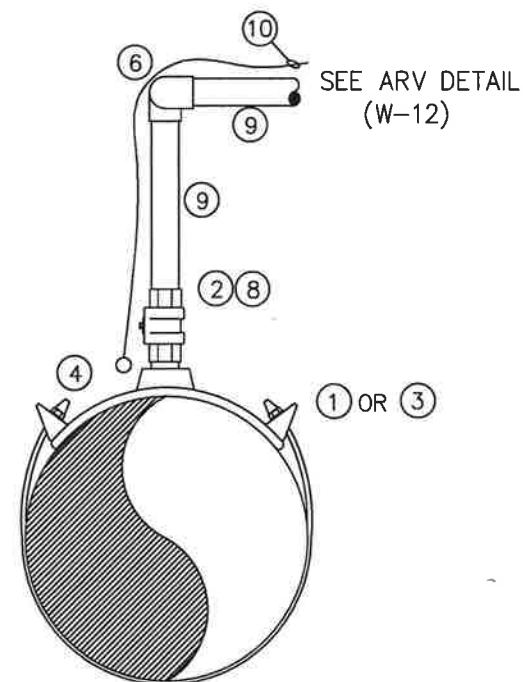
TO CONFORM TO AASHTO M306-05, H-20 AND H-25 EN/24 D4000.



DOUBLE STRAP
DUCTILE IRON PIPE SADDLE



PVC PIPE SADDLE



ARV SADDLE

MATERIALS:

- 1.) DOUBLE STRAP BRASS SADDLE FOR DUCTILE IRON MAIN
- 2.) INSULATING CORPORATION STOP OR NON INSULATED CORPORATION STOP WITH NYLON BUSHING
- 3.) BRASS SADDLE FOR PVC MAIN
- 4.) ZINC CAPS ON ALL BOLTS (ONLY WITH NON-INSULATED CORPORATION STOP)
- 5.) COPPER SERVICE
- 6.) SWING JOINT (2 - 90° BRASS FITTINGS)
- 7.) CORP STOP W/COMPRESSION COUPLING
- 8.) CORP STOP W/THREADED COUPLING
- 9.) THREADED BRASS PIPE
- 10.) TRACING WIRE (FOR COMMERCIAL SERVICES ONLY)

NOTES:

WRAP CORPORATION STOP AND COPPER SERVICE A MINIMUM OF 3' WITH AN APPROVED DIELECTRIC TAPE AND POLYKEN PRIMER PER MANUFACTURER'S RECOMMENDATIONS.

SADDLES SHALL BE WRAPPED IN 8 MIL POLYETHYLENE AND BACKFILLED WITH SAND.

TRACING WIRE SHALL BE REQUIRED ON ARV, HYDRANT RUNS, BLOW OFFS, SERVICES WITHOUT CONTINUOUS COPPER PIPE, AND OTHER MAJOR APPURTENANCES.

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ENVIRONMENTAL UTILITIES DIRECTOR



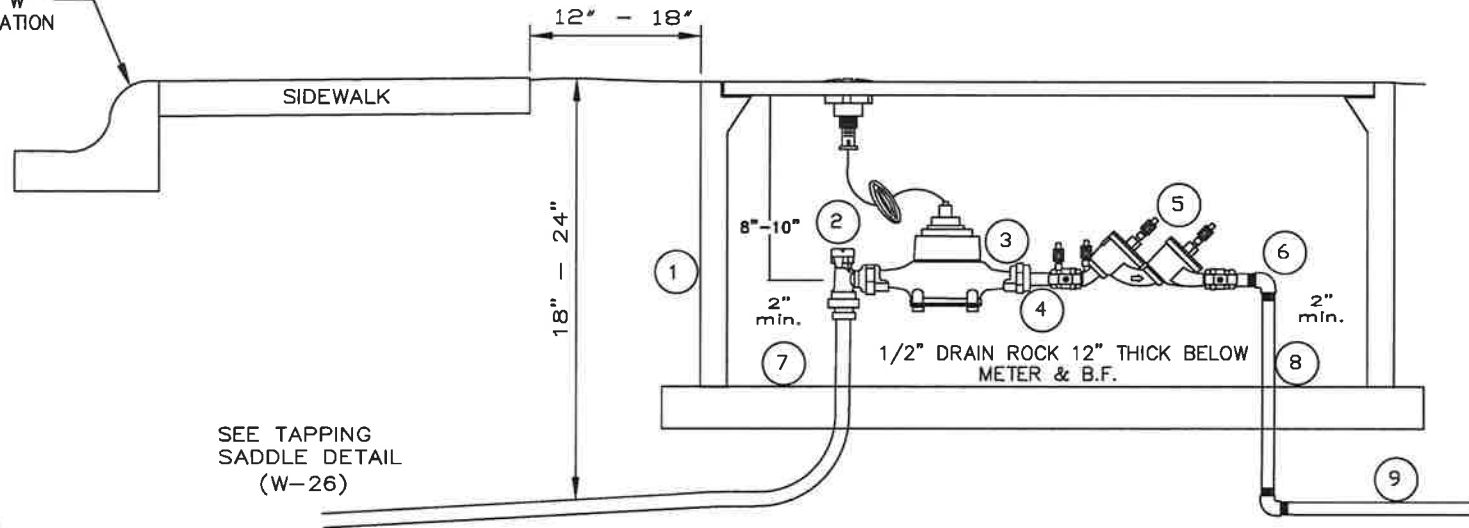
ENVIRONMENTAL UTILITIES
DEPARTMENT

SADDLE DETAIL

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-26

CURB STAMPED "W"
AT SERVICE LOCATION



SEE TAPPING
SADDLE DETAIL
(W-26)

NOTES:

WATER METERS SHALL BE PURCHASED THROUGH THE CITY
PURCHASE INCLUDES INSTALLATION.

INSTALL CONCRETE BLOCKING (4"x4"x 15 1/2" SOLID SLUMP BLOCK)
UNDER ENTIRE UTILITY BOX PERIMETER.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL
POLYETHYLENE OR APPROVED EQUAL.

- 1) N 36 UTILITY BOX
- 2) ANGLED METER VALVE W/PADLOCK WINGS (PACK JOINT)
- 3) WATER METER (PURCHASED THROUGH CITY)
- 4) 4" BRASS NIPPLE
- 5) DOUBLE CHECK VALVE (WATTS SERIES 719)
- 6) STREET "L" (BRASS)
- 7) SLUMP BLOCK (SOLID 4" X 4" X 15 1/2")
UNDER ENTIRE PERIMETER OF BOX.
- 8) 12" BRASS NIPPLE
- 9) 18" BRASS NIPPLE (MIN.)

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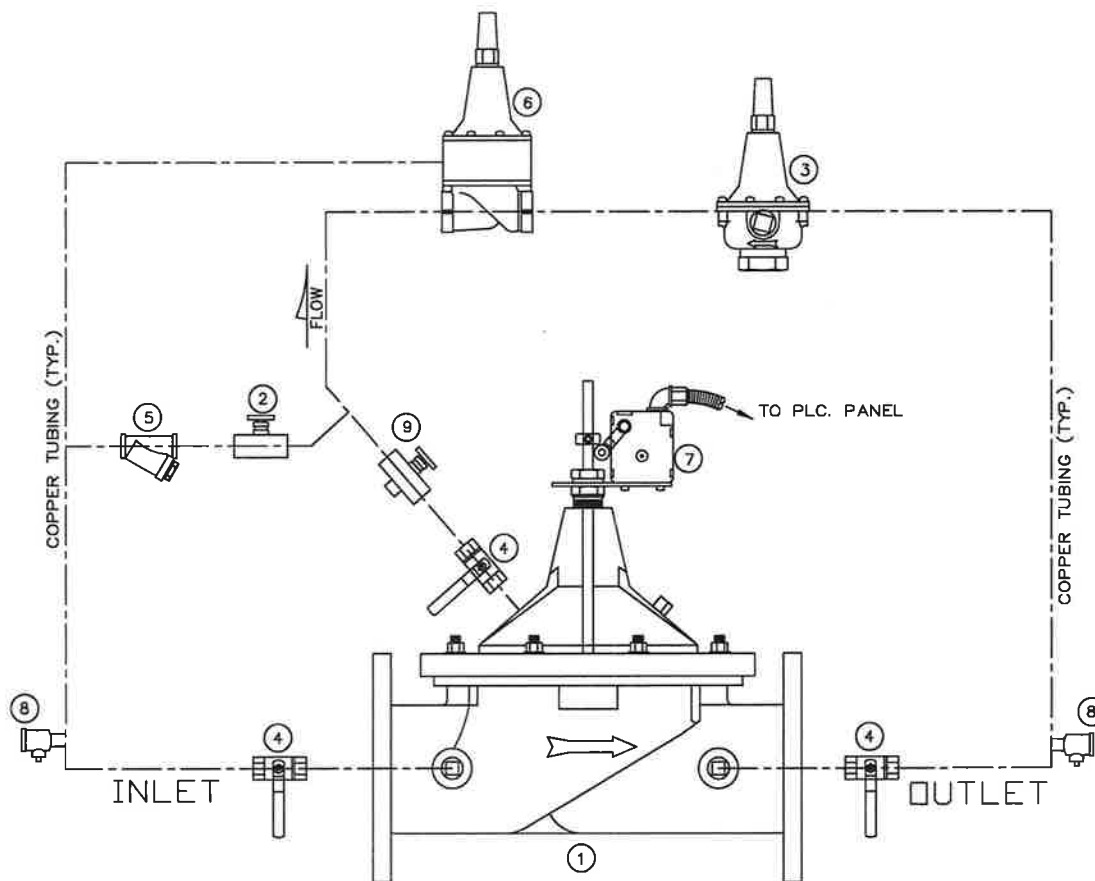


ENVIRONMENTAL UTILITIES
DEPARTMENT

**DUAL WATER USE (POTABLE)
3/4" & 1" SERVICE LINE**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-27



- 1) MAIN VALVE, STAINLESS STEEL BODY, AMES, CLA VAL
- 2) NEEDLE VALVE, DELTRO
- 3) PRESSURE REDUCING CONTROL, AMES CP-15,
- 4) BALL VALVES, APOLLO OR HOKE
- 5) "Y" STRAINER WITH BRASS PLUG 1/4"NPT
- 6) PRESSURE SUSTAINING VALVE, AMES CP-16,
- 7) OPEN LIMIT SWITCH, MICROSWITCH
- 8) TEST COCK, MIPT 1/4" BRASS
- 9) OPENING SPEED CONTROL, DELTRO

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ENVIRONMENTAL UTILITIES DIRECTOR

NOTES:

CITY APPROVED GATE VALVES SHALL BE PLACED UP AND DOWN STREAM OF MAIN VALVE.

FITTINGS SHALL BE BRASS COMPRESSION TYPE



ENVIRONMENTAL UTILITIES
DEPARTMENT

COMBINATION PRESSURE REDUCING AND
PRESSURE SUSTAINING VALVE

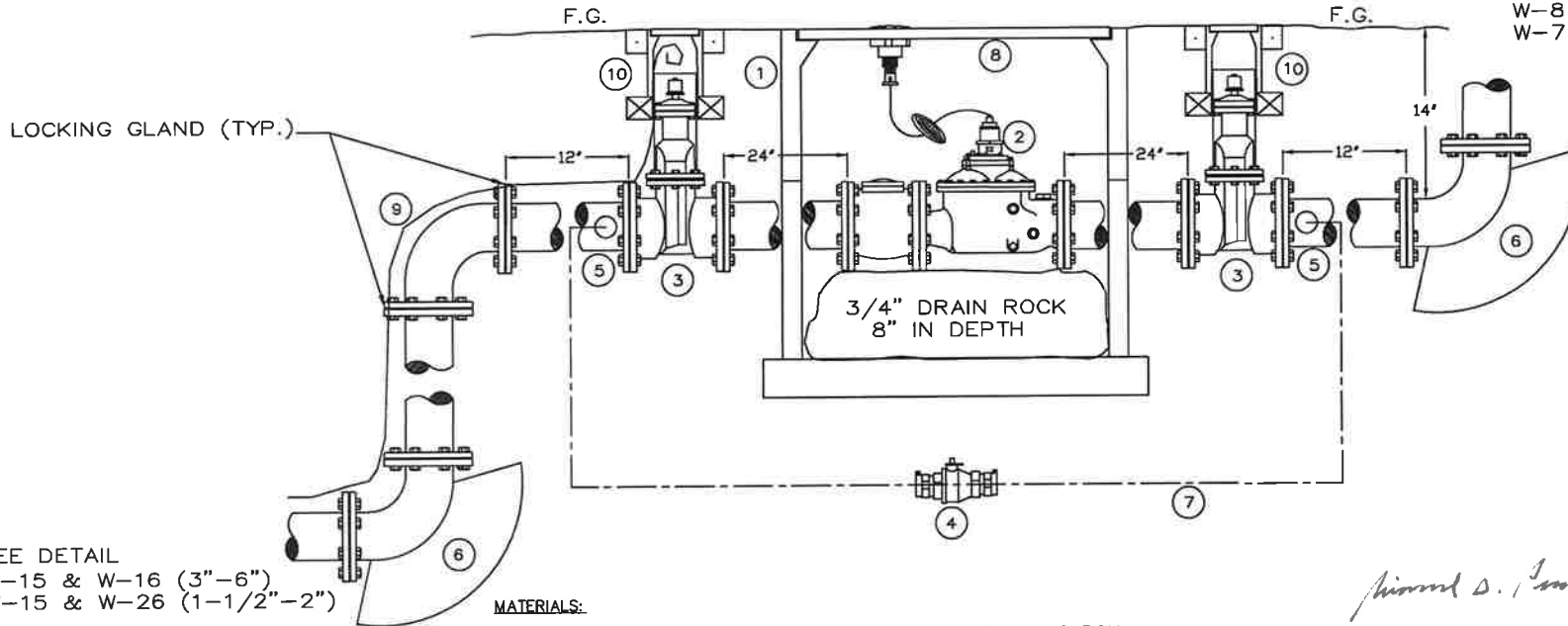
SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-28

NOTES:

PIPE SHALL BE DUCTILE IRON FOR 3" AND LARGER. PIPE SHALL BE BRASS FOR 2" AND SMALLER.
 INSTALL CONCRETE BLOCKING (4" X 4" SOLID SLUMP BLOCK) UNDER ENTIRE PERIMETER OF THE UTILITY BOX.
 PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL. POLYETHYLENE
 USE CITY APPROVED RESTRAINED JOINTS OR FLANGED SPOOLS
 WATER METER SHALL BE PURCHASED THROUGH THE CITY. PURCHASE INCLUDES INSTALLATION.
 USE TURBO METER FOR IRRIGATION & COMPOUND METER FOR COMMERCIAL SERVICE.

TO BACKFLOW
 SEE DETAIL
 W-8 (3"-6")
 W-7 (1-1/2"-2")



SEE DETAIL
 W-15 & W-16 (3"-6")
 W-15 & W-26 (1-1/2"-2")

MATERIALS:

- 1) REFER TO TABLE 1 FOR UTILITY BOX SIZING. OR B-48 BOX WITH EXTENSION
- 2) METER WITH STRAINER (PURCHASED THROUGH CITY) INSTALL IDLER SPOOL DURING INSTALLATION OF METER BOX.
- 3) RESILENT SEAT GATE VALVE (3"-6") OR LOCKING CURB STOP FOR 1-1/2" TO 2" SERVICES
- 4) 2" LOCKING CURB STOP IN G-5 BOX FOR 3"-6" SERVICES OR 3/4" LOCKING CURB STOP FOR 1 1/2"-2" SERVICES. SEE W-16
- 5) 2" DOUBLE STRAP BRASS SADDLE FOR DUCTILE IRON MAIN WITH 2" MIPT BY COMPRESSION ADAPTER
- 6) THRUST BLOCKS (TYP.)
- 7) 3/4" or 2" BYPASS PIPE MATERIAL TO BE SOFT COPPER TYPE K AND FITTINGS TO BE BRASS COMPRESSION TYPE.
- 8) METAL TRAFFIC LID WELD MARKED "RSVL WATER"
- 9) TRACING WIRE
- 10) SEE W-16 FOR VALVE BOX AND RISER DETAIL

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 ENVIRONMENTAL UTILITIES DIRECTOR

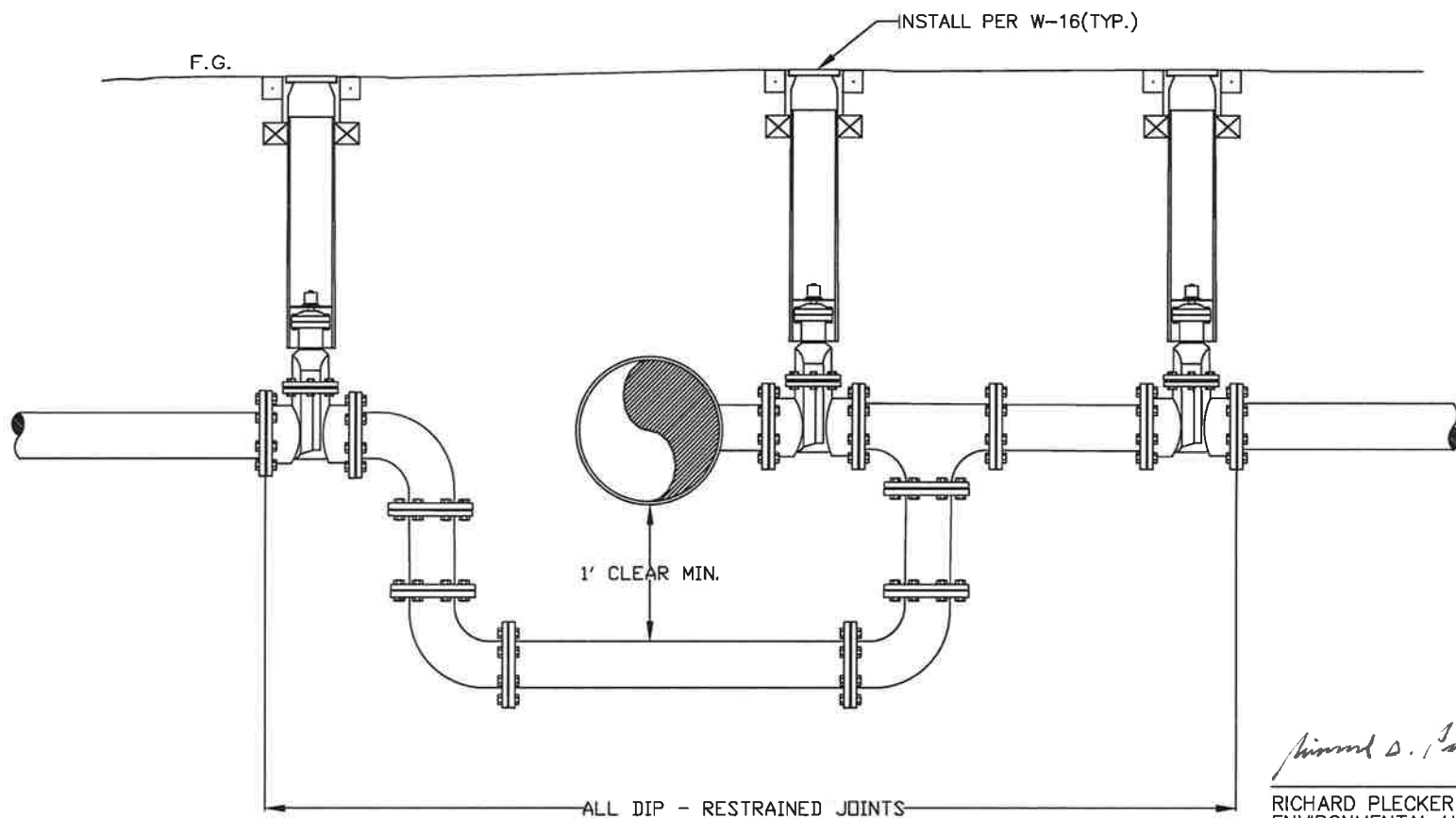
CITY OF
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 DEPARTMENT

1-1/2", 2", 3", 4", 6" COMPOUND &
 TURBO METER WITH BYPASS

SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

W-29



Richard D. Plecker

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ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

FLOW THRU DETAIL

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-30

CHRISTY B1730 H/20 RATED UTILITY BOX EQUIV.
BROOKS OR EQUAL. PROVIDE GALV. STEEL
CHECKERED PLATE COVER, SCREW DOWN TYPE,
MARKED "B.O."

VALVE BOX W/LID
MARKED "B.O."
INSTALL PER W-16.

11" Ø OD X 4" Ø
RED. FLANGE X NPT

4" 45 EL

4" NPT TO NSHT NIPPLE

4" NSHT CAP

F.G.

6" MAX.

#4 CONT.

6" DRAIN ROCK

TRACING WIRE

WATER MAIN

FLANGED
GATE VALVE

6" Ø FIRE HYDRANT BURY

INSULATING FLANGE

6"

2'-9"

6" Ø FLANGED DIP AND
FITTINGS, SEE PLANS
FOR LENGTH,
ORIENTATION AND
LOCATION

NOTE:

ALL THREADED PIPE
FITTINGS SHALL BE
BRASS

CONCRETE INSTALLED
FOR STABILITY

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

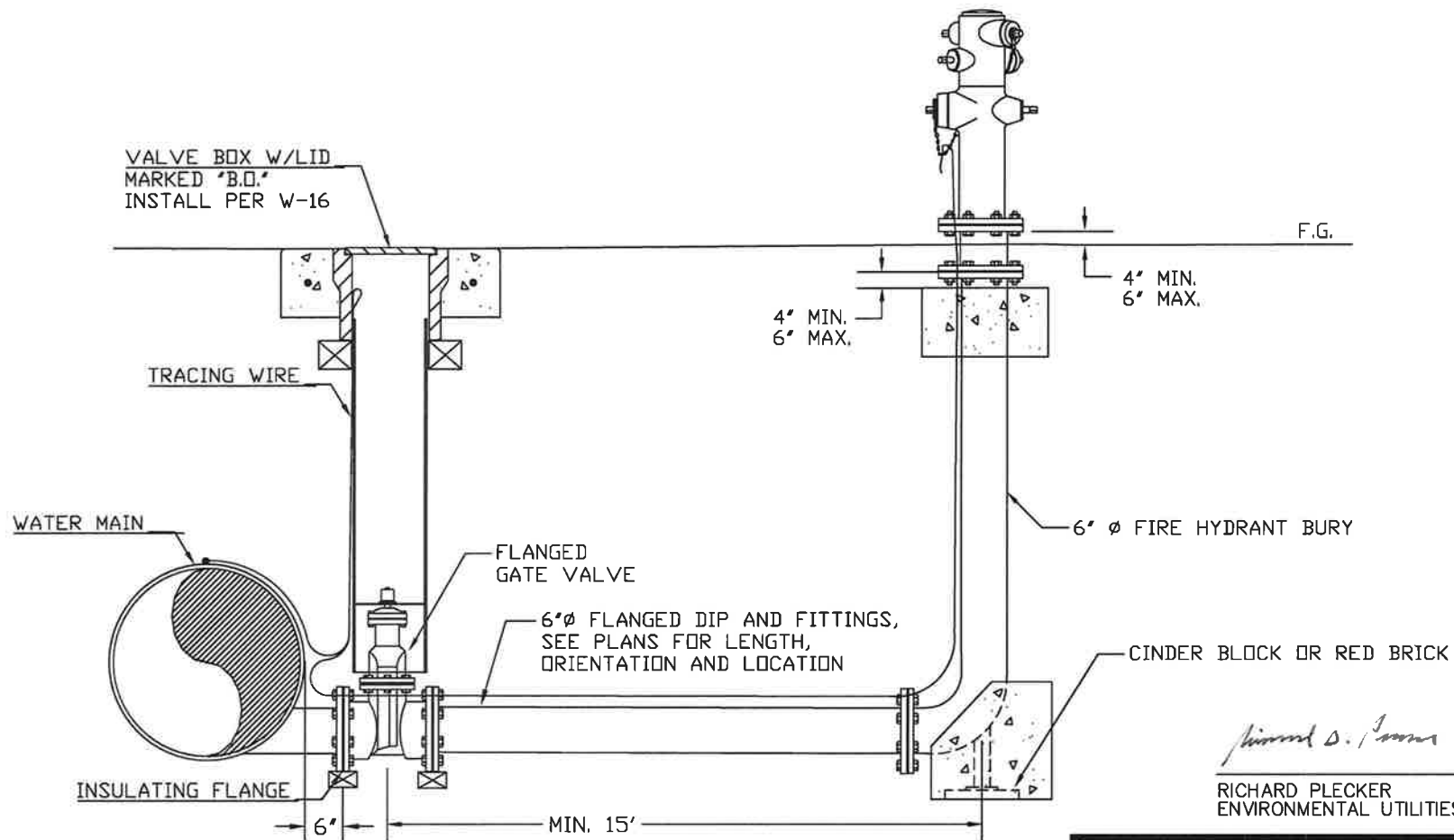


ENVIRONMENTAL UTILITIES
DEPARTMENT

TRANSMISSION MAIN
SUBSURFACE BLOW OFF

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-31



Richard D. Plecker
 RICHARD PLECKER
 ENVIRONMENTAL UTILITIES DIRECTOR

NOTES:

1. STATION LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. PLACE BLOW-OFFS ADJACENT TO LOW POINT IN MAIN LINE.
2. ALL FITTINGS SHALL BE DIP.
3. HYDRANT BOLTS SHALL BE BREAK AWAY. INSTALLED NUT SIDE UP AND FILLED WITH 25 YEAR (MIN) SILICONE CAULK.
4. ENTIRE LENGTH TO BE RESTRAINED.
5. CONTRACTOR HAS THE OPTION OF USING MECHANICAL JOINT (MJ) FITTING. IF MJ FITTINGS ARE USED, MEGALUGS SHALL BE INSTALLED.
6. CONCRETE INSTALLED FOR STABILITY.

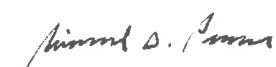


ENVIRONMENTAL UTILITIES
 DEPARTMENT

TRANSMISSION MAIN HYDRANT BLOW OFF

SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

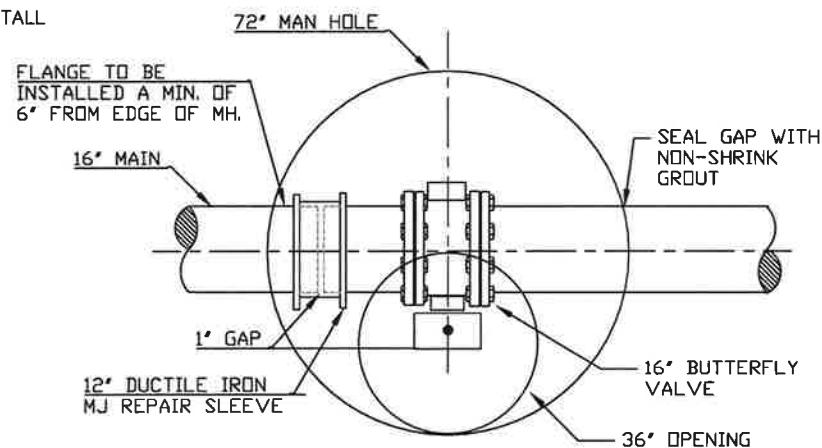
W-32



CITY OF
ROSEVILLE
CALIFORNIA

W-33

1. SEE VALVE BONDING DETAIL FOR ADDITIONAL REQUIREMENTS.



Alvin D. Jones

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

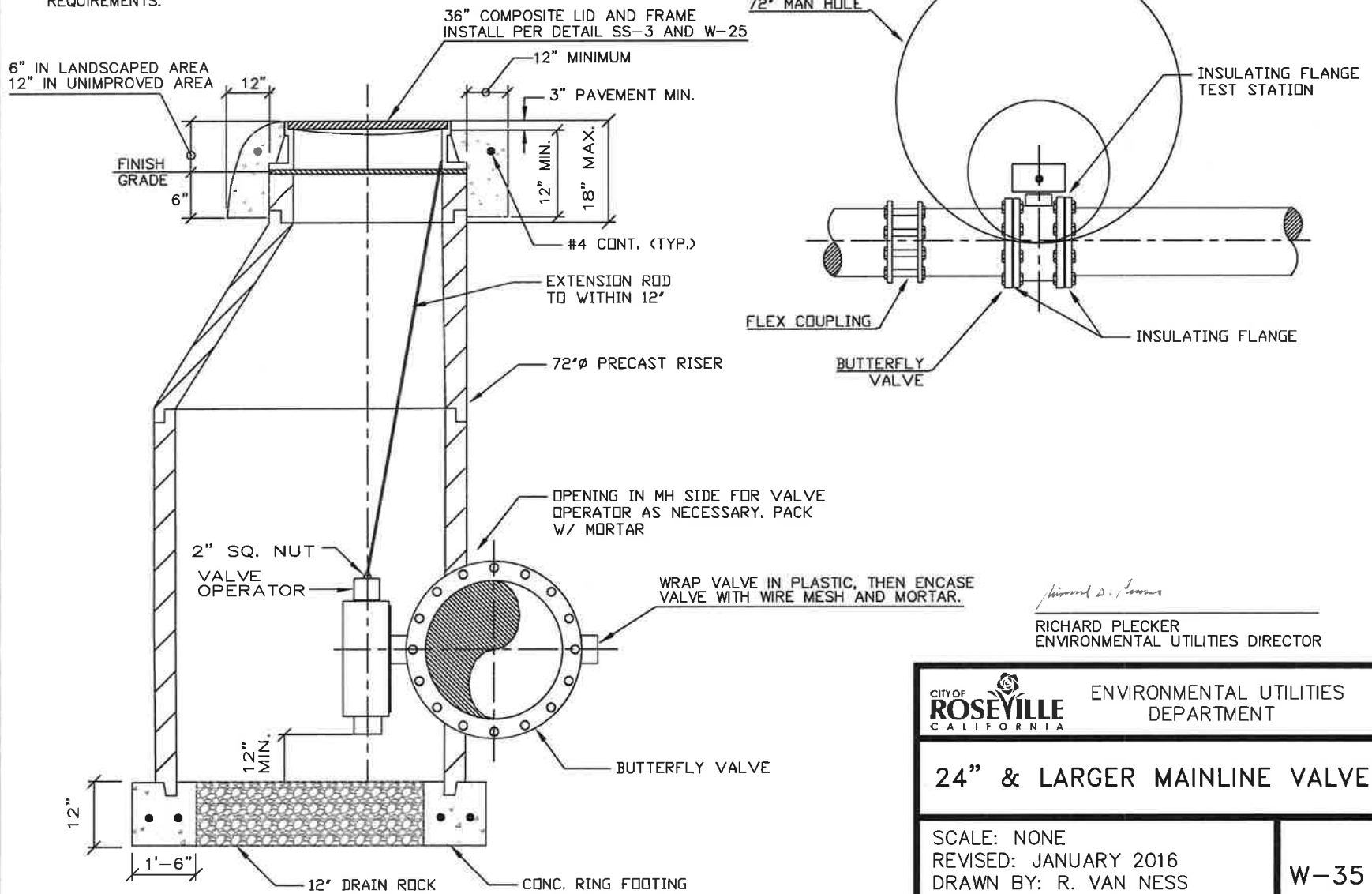
16" MAINLINE VALVE ENCLOSURE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-34

NOTES

1. SEE VALVE BONDING DETAIL FOR ADDITIONAL REQUIREMENTS.



RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



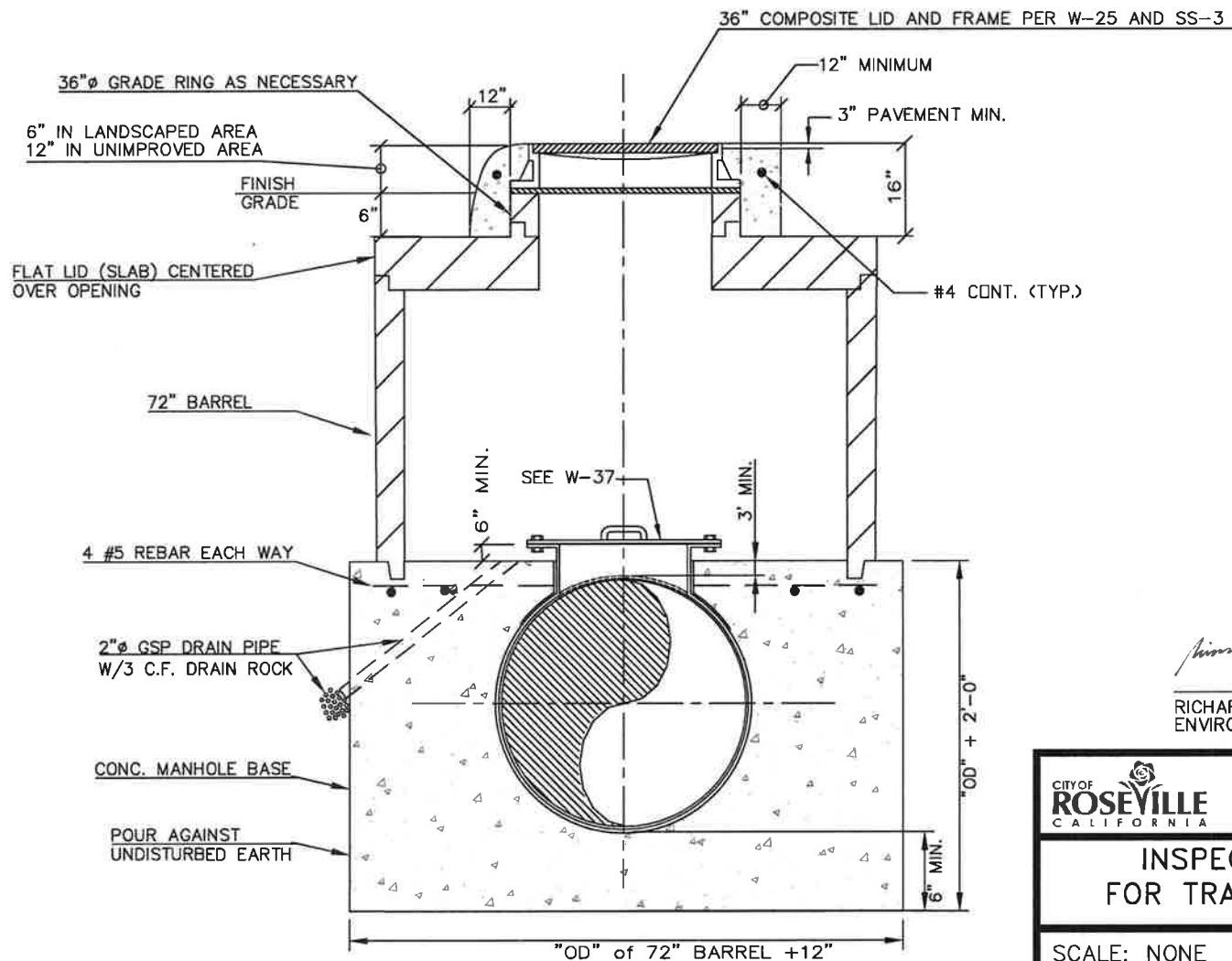
CITY OF
ROSEVILLE
CALIFORNIA

ENVIRONMENTAL UTILITIES
DEPARTMENT

24" & LARGER MAINLINE VALVE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-35



Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

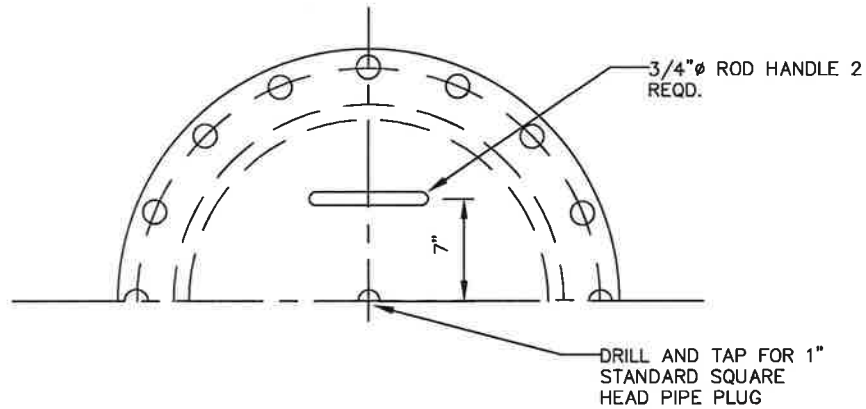


ENVIRONMENTAL UTILITIES
DEPARTMENT

INSPECTION MANHOLE FOR TRANSMISSION MAINS

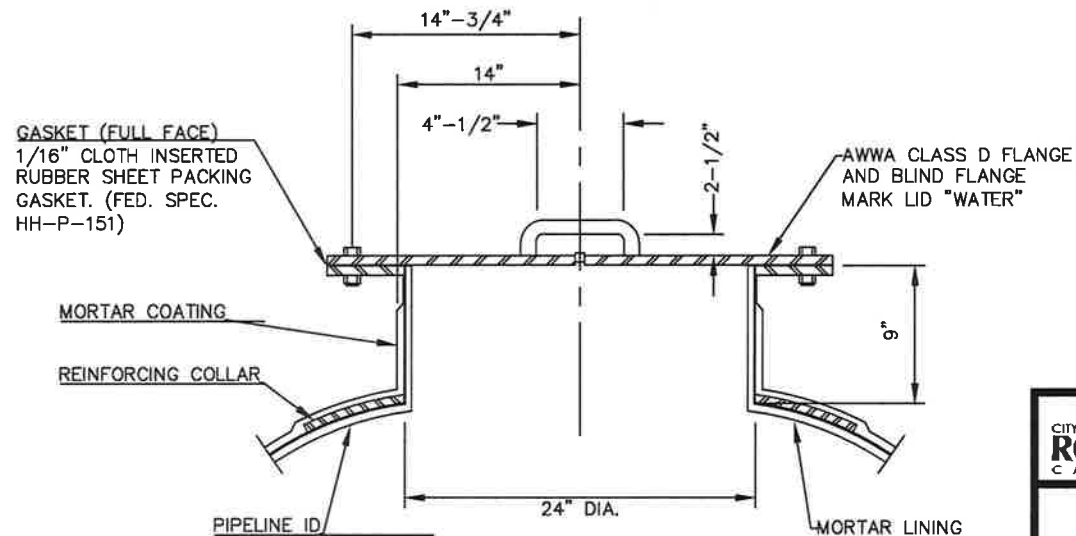
SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-36



NOTES

CONSTRUCT MANHOLE PER AWWA C208 AND C303. DESIGN PRESSURE SHALL MEET OR EXCEED PIPELINE DESIGN PRESSURE.



Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

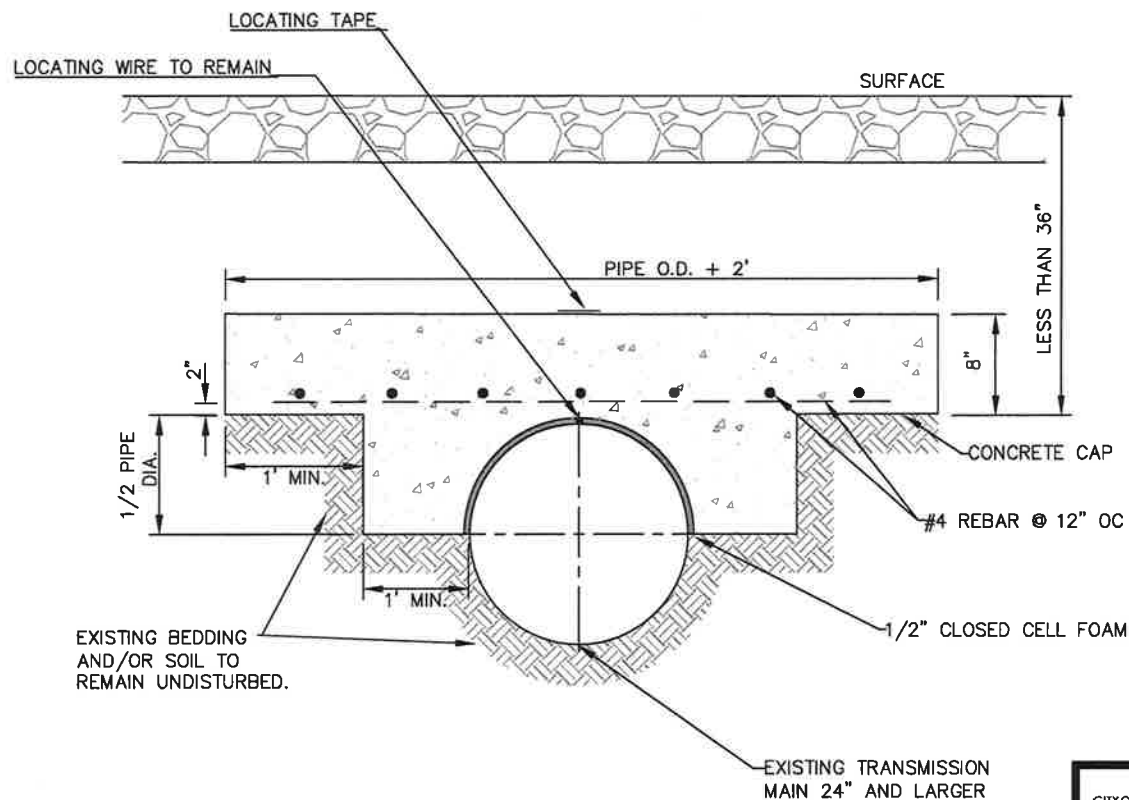


ENVIRONMENTAL UTILITIES
DEPARTMENT

INSPECTION PORT FOR TRANSMISSION MAINS

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-37



NOTES

1. CONCRETE CAP REQUIRED FOR ALL AREAS WITH LESS THAN 36" COVER
2. CONCRETE SHALL BE 5 SACK MIX MECHANICALLY TAMPED TO ELIMINATE VOIDS.

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

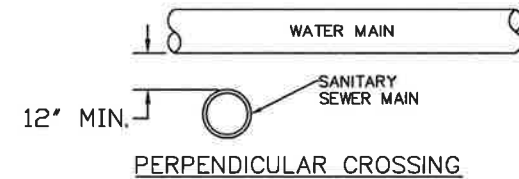
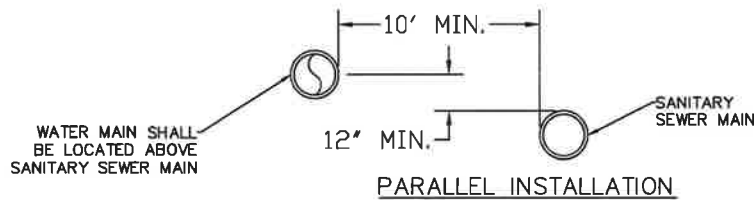


ENVIRONMENTAL UTILITIES
DEPARTMENT

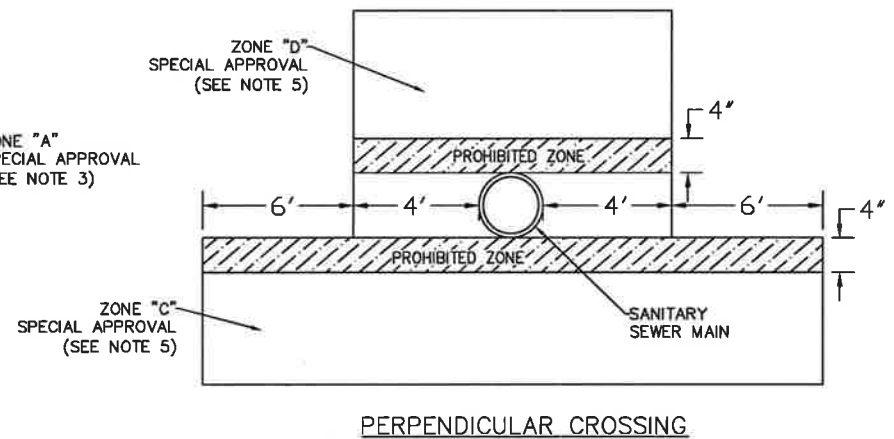
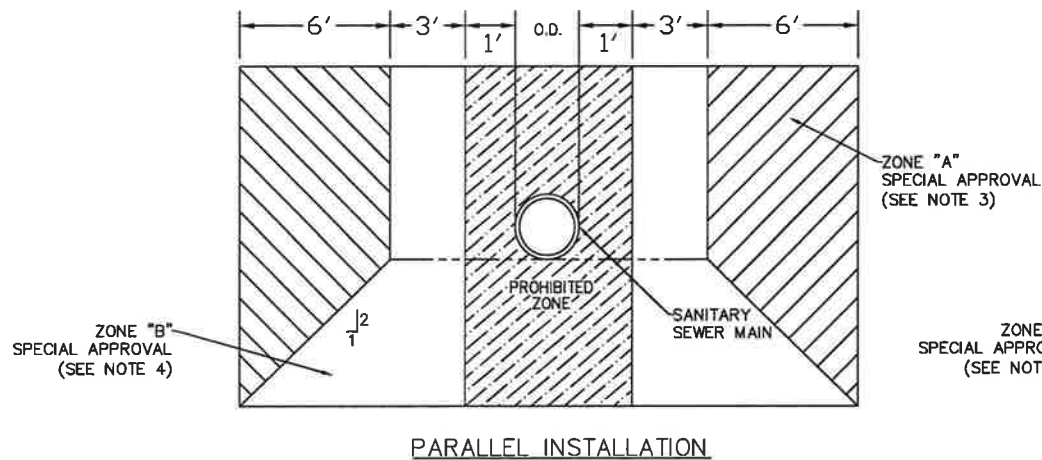
CONCRETE CAP ON SHALLOW C.C.P. TRANSMISSION MAIN

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-38



BASIC SEPERATION REQUIREMENTS



NOTES:

1. THE CONTRACTOR SHALL FOLLOW THE CITY OF ROSEVILLE STANDARDS AND TITLE 22 OF THE CALIFORNIA ADMINISTRATIVE CODE FOR THE SEPARATION REQUIREMENTS BETWEEN WATER MAINS AND SANITARY SEWER MAINS GUIDELINES PREPARED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES.
2. WHEN THE BASIC SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL INSTALL WATER MAINS ACCORDING TO THE SPECIAL SEPARATION REQUIREMENTS.
3. WHEN LOCATED IN ZONE "A", THE WATER MAIN SHALL BE DUCTILE IRON PIPE (DIP) PER CITY OF ROSEVILLE STANDARDS.
4. NO WATER MAINS PARALLEL TO SANITARY SEWER MAINS SHALL BE INSTALLED WITHIN ZONE "B" WITHOUT SPECIAL APPROVAL FROM THE DEPARTMENT OF HEALTH SERVICES.
5. WHEN LOCATED IN ZONE "C", THE WATER MAIN SHALL HAVE NO JOINTS WITHIN FIVE FEET (5') FROM EITHER SIDE OF THE SANITARY SEWER CROSSING AND BE DUCTILE IRON PIPE (DIP) AND CONCRETE ENCASED.
6. WHEN LOCATED IN ZONE "D", THE WATER MAIN SHALL HAVE NO JOINTS WITHIN FIVE FEET (5') FROM EITHER SIDE OF THE SANITARY SEWER CROSSING AND BE DUCTILE IRON PIPE (DIP) PER CITY OF ROSEVILLE STANDARDS.
7. WATER MAINS AND SANITARY SEWER MAINS SHALL NOT BE INSTALLED IN THE SAME TRENCH.

Rich Plecker
RICH PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

WATER MAIN AND SEWER MAIN CROSSING

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: J. CUMMINGS
APPROVED BY: R. PLECKER

W-39

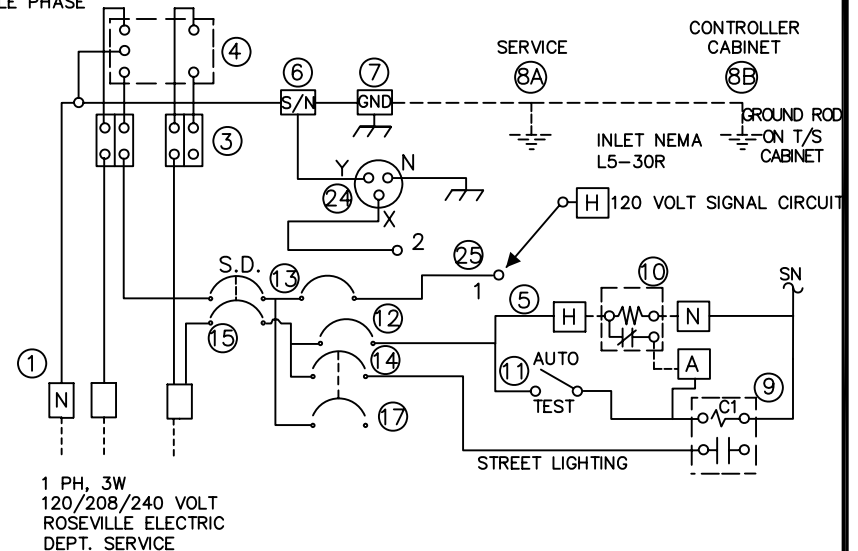
TYPE III-AF SERVICE EQUIPMENT SCHEDULE

	COMPONENT	NAME PLATE DESCRIPTION
①	NEUTRAL LUG	
②	LANDING LUG	
③	TEST BYPASS FACILITIES	
④	METER SOCKET AND SUPPORT	
⑤	TERMINAL BLOCKS	
⑥	SOLID NEUTRAL BUS	
⑦	GROUND BUS	
⑧	GROUND ROD	
⑨	35A MERCURY CONTACTOR	
⑩	PHOTO ELECTRIC UNIT	
⑪	15 AMP SWITCH SPST	LIGHTING TEST SWITCH
⑫	15A,120V,1P,CKT.BKR.	LIGHTING CONTROL
⑬	50A,120V,1P,CKT.BKR.	SIGNALS
⑭	20A,240V,1P,CKT.BKR.	STREET LIGHTS (TRAF.SIG.)
⑮	100A,240V,2P,CKT.BKR.	SERVICE DISCONNECT
⑰	20A,120V,1P,CKT.BKR.	SPARE
⑳	50A,120V,FLANGED RECEPTACLE	
㉑	55A,120V,1P	TRANSFER SWITCH

SERVICE ENCLOSURE WIRING DIAGRAM

METERED PER UTILITY REQUIREMENTS

METER SOCKET
WIRED FOR
120/240 OR
208/240V
SINGLE PHASE



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

TYPICAL SERVICE AND WIRING SCHEDULE

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-1

EQUIPMENT SCHEDULE										
STANDARD		SIG. MA (FEET)	LUM. MA (FEET)	VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL MOUNTING	PPB Ø	ARROW	HPS LUMINAIRE WATTAGE	REMARKS
LOC	TYPE			MAST ARM	POLE					
(A)	61-5-129 *	65'	15'	MAT MAS MAS	SV-1-T	SP-1-CS	-	-	400W	INSTALL EVD AND R73-5 ON SMA. INSTALL IISNS MAST ARM AND CITY SUPPLIED IISNS (Fiddymnt Rd) ON POLE AT 25'.
(B)	PPB POST	-	-	-	-	-	Ø6 Ø8	LEFT RIGHT	-	
(C)	1-B	-	-	-	TV-2-T	SP-1-CS	-	-	-	
(D)	61-5-129 *	65'	15'	MAT MAS	SV-1-T	SP-1-CS	-	-	400W	INSTALL EVA AND R73-5 ON SMA. INSTALL IISNS MAST ARM AND CITY SUPPLIED IISNS (Blue Oaks Blvd) ON POLE AT 25'.
(E)	PPB POST	-	-	-	-	-	Ø2 Ø8	RIGHT LEFT	-	
(F)	1-B	-	-	-	TV-2-T	SP-1-CS	-	-	-	
(G)	61-5-129 *	65'	15'	MAT MAS MAS	SV-1-T	SP-1-CS	-	-	400W	INSTALL EVB AND R73-5 ON SMA. INSTALL IISNS MAST ARM AND CITY SUPPLIED IISNS (Fiddymnt Rd) ON POLE AT 25' MIN. INSTALL WIFI CABLE AND PAN, TILT, ZOOM (PTZ) CAMERA CABLES TO TOP OF POLE WITH 10' SLACK. CITY WILL INSTALL PTZ CAMERA. PEU ATOP THIS POLE.
(H)	PPB POST	-	-	-	-	-	Ø2 Ø4	LEFT RIGHT	-	
(I)	1-B	-	-	-	TV-2-T	SP-1-CS	-	-	-	
(J)	61-5-129 *	65'	15'	MAT MAS	SV-1-T	SP-1-CS	-	-	400W	INSTALL EVC AND R73-5 ON SMA. INSTALL IISNS MAST ARM AND CITY SUPPLIED IISNS (Blue Oaks Blvd) ON POLE AT 25'.
(K)	PPB POST	-	-	-	-	-	Ø4 Ø6	LEFT RIGHT	-	
(L)	1-B	-	-	-	TV-2-T	SP-1-CS	-	-	-	

* CONTRACTOR SHALL PROVIDE TO THE CITY, ENGINEERING CALCULATIONS FROM THE POLE MANUFACTURER FOR LOADING CONDITIONS IF NOT ALREADY ON FILE WITH THE CITY.



RHON HERNDON
PUBLIC WORKS DIRECTOR

	DEPARTMENT OF PUBLIC WORKS
TYPICAL POLE AND EQUITMENT SCHEDULE	
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	TS-2

CONDUCTOR SCHEDULE												
CONDUIT RUNS												
AWG	CIRCUIT	1	2	3	4	5	6	7	8	9	10	11
#14	Ø1						3	3	3	3	3	
	Ø2			3	3	3	3	3	3	3		
	Ø3	3	3	3	3	3	6	6	6	6	3	3
	Ø4					3	6	6	6	6	3	3
	Ø5		3	3	3	3	3	3	3	3		
	Ø6		3	3	3	3	6	6	6	6	3	
	Ø7				3	3	3	3	3	3		
	Ø8	3	3	3	3	3	3	3	3	3		
	(FUT) OLA			3	3	3	3	3	3	3		
	Ø2 PED			2	2	2	2	2	2	2		
	Ø4 PED					2	4	4	4	4	2	2
	Ø6 PED		2	2	2	2	4	4	4	4	2	
	Ø8 PED	2	2	2	2	2	2	2	2	2		
	Ø2 PPB			1	1	1	1	1	1	1		
	Ø4 PPB					1	2	2	2	2	1	
	Ø6 PPB	1	1	1	1	1	2	2	2	2	1	
	Ø8 PPB	1	1	1	1	1	1	1	1	1		
	PPB COMMON	1	1	1	1	1	2	2	2	2	1	
	SPARES	3	3	3	3	3	6	6	6	6	3	3
	PEU					3	3	3	3			
	TOTAL	14	22	31	34	43	65	65	65	62	22	11
#8	SIGNAL COMMON	1	1	1	1	1	2	2	2	2	1	1
	LUMINAIRES	2	2	2	2	2	4	4	4		2	
	INSULATED (GREEN) STRANDED	1	1	1	1	1	1	1	1	1	1	1
	TOTAL	4	4	4	4	4	7	7	7	3	7	2
#10	PULLWIRE +	1	1	1	1	1	1	1	1	1	1	1
#12	IISNS	2	2	2	2	2	2	2	2		2	
DLC	Ø1		4	4	4	4	4	4	4	4		
	Ø2								4	5		
	Ø3				4	4	4	4	4	4		
	Ø4						7	7	7	7	7	7
	Ø5							4	4	4		
	Ø6		5	5	5	5	5	5	5	5		
	Ø7						4	4	4	4	4	4
	Ø8				7	7	7	7	7	7		
	TOTAL	—	9	9	20	20	31	35	39	40	11	11
EVP		1	1	2	2	3	4	4	4	4	1	
	PTZ CCTV WIFI CABLE ⊙					2	2	2	2	2		
	PTZ CCTV POWER CABLE *					1	1	1	1	1		
	CONDUIT SIZE	2"	3"	2-3"	2-3"	2-3"	3-3"	3-3"	3-3"	3-3"	3"	3"
	PERCENT FILL	25	22	15	21	26	25	27	28	26	24	15

'+' = PROVIDE 1#10 GREEN PULLWIRE IN EACH CONDUIT

⊙ = FURNISH AND INSTALL COMMScope, ULTRA II ENHANCED CAT 5e CABLE, PART NUMBER 5NF4 - 4 TWISTED PAIR FLOODED CABLE OR APPROVED EQUAL

'*' = FURNISH AND INSTALL IMSA -14-3/20-1-STR CAMERA POWER CABLE. CABLE SHALL BE 600 VOLT AND 90 DEGREE C. COLOR CODE 3/C: BLACK, WHITE, & GREEN. (BELDEN PN 601195 OR CITY APPROVED EQUIVALENT)



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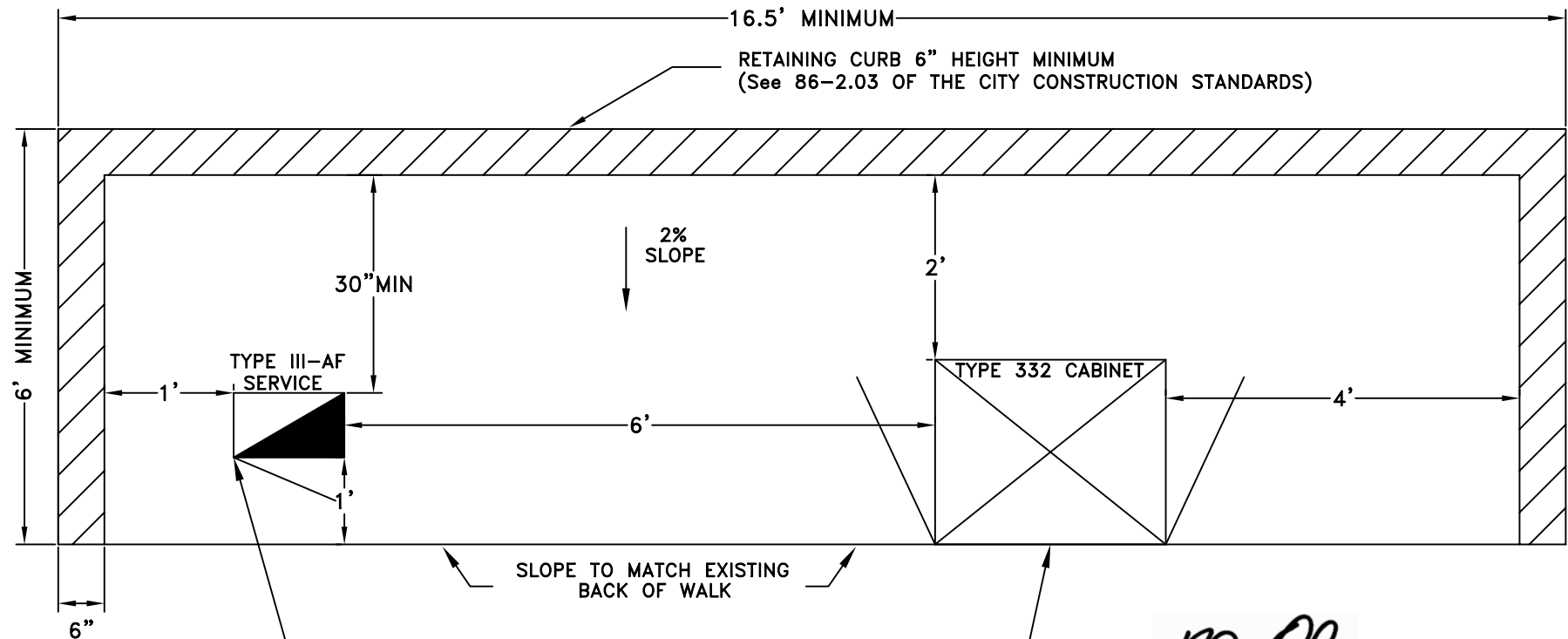


DEPARTMENT OF
PUBLIC WORKS

TYPICAL CONDUCTOR SCHEDULE

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-3



SERVICE FOUNDATION
SHALL BE PER CALTRANS
STANDARD PLANS ES-2D

CONTROLLER FOUNDATION
SHALL BE PER CALTRANS
STANDARD PLANS ES-3C

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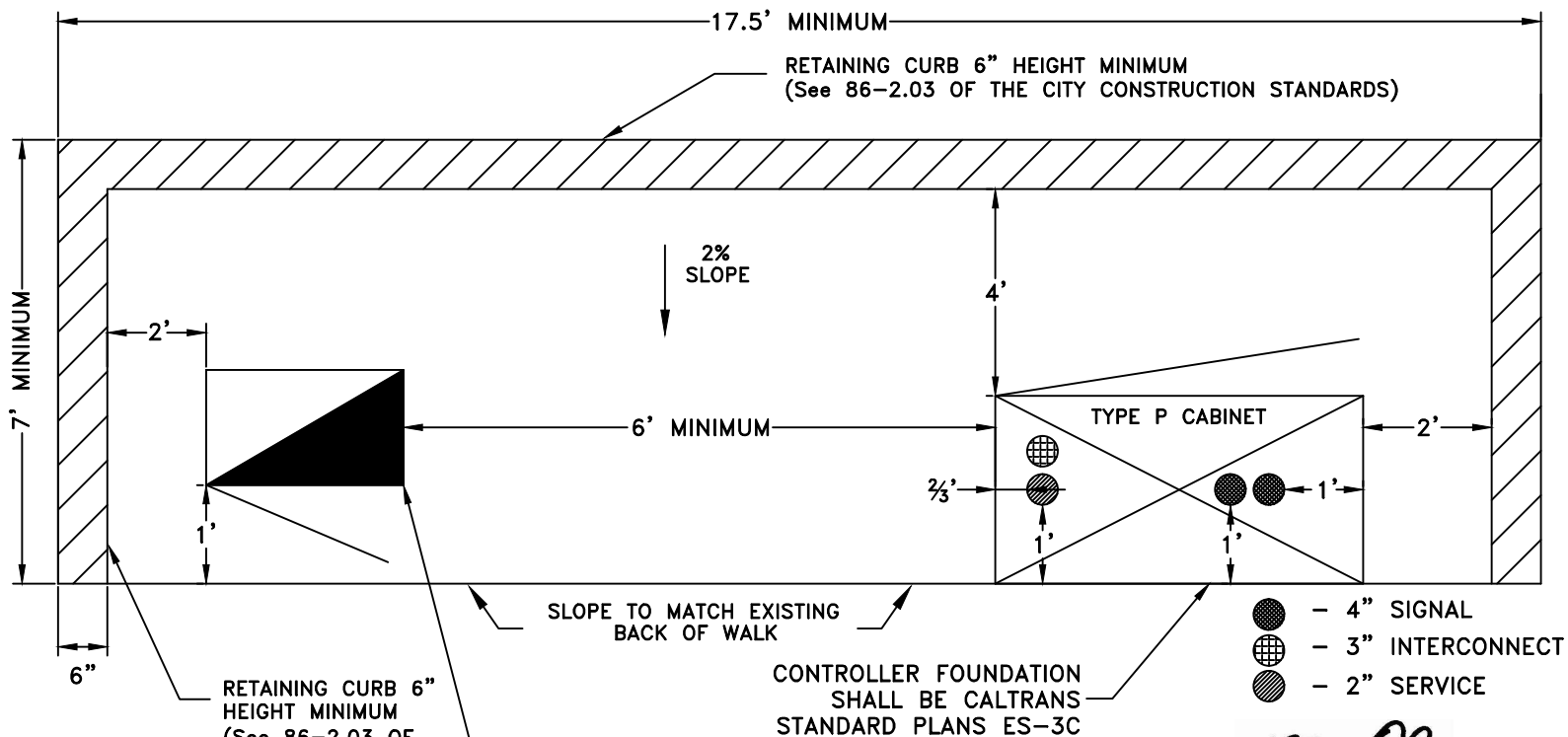


DEPARTMENT OF
PUBLIC WORKS

332 CONTROLLER/SERVICE CABINET PAD DETAIL

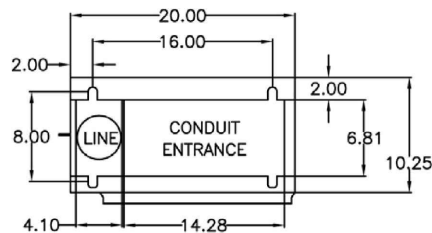
SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-4



RH

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PUBLIC WORKS DIRECTOR



**BASE PLATE LAYOUT
FOR COMBO SERVICE**

TESCO TYPE 27-22 SERVICE WITH BATTERY BACK-UP SYSTEM EQUIVALENT) (OR APPROVED SERVICE FOUNDATION SHALL BE 21"(W)X21"(D)X24*(H) AND LEVEL. REFER TO MANUFACTURES SPECS FOR ADDITIONAL INFORMATION

* TOP OF FOUNDATION SHALL BE A MINIMUM OF 4" ABOVE THE CONTROLLER/SERVICE PAD

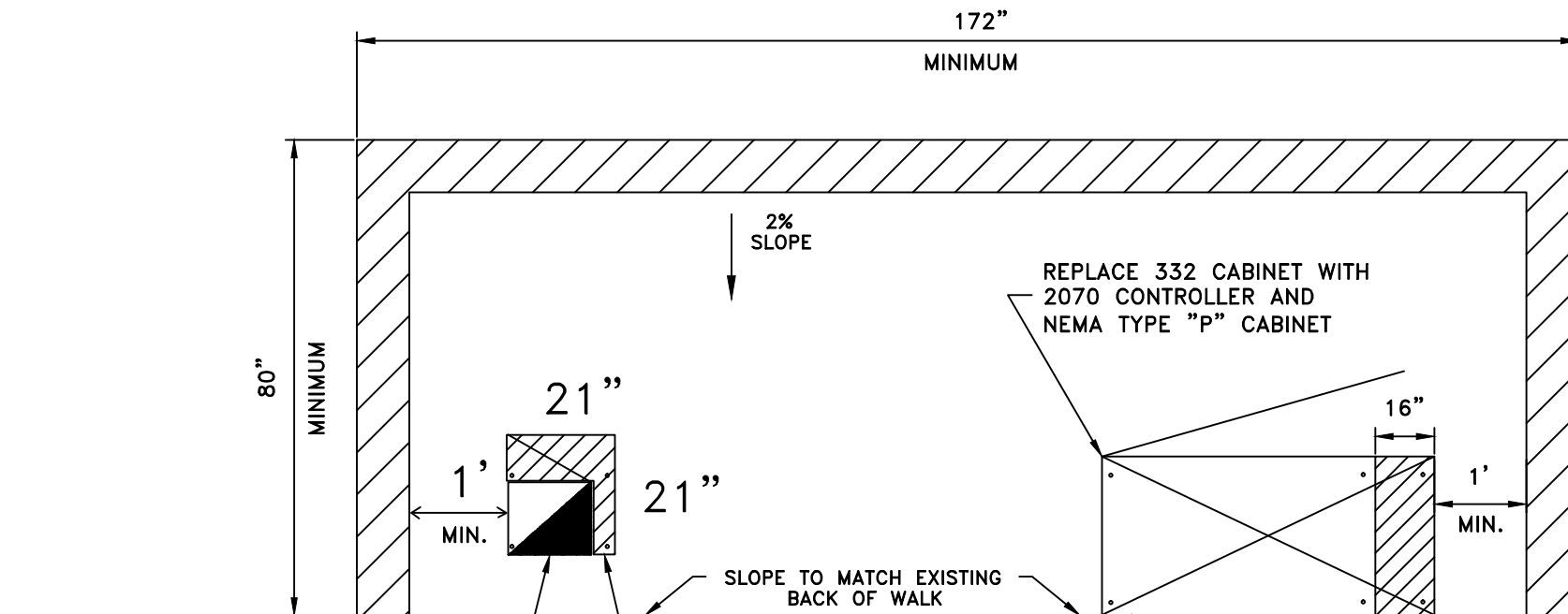


DEPARTMENT OF
PUBLIC WORKS

**NEMA 2070 CONTROLLER/SERVICE
CABINET PAD DETAIL**

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J PASTOR
APPROVED BY: J CERVANTES

TS-5



RETAINING CURB 6" HEIGHT MINIMUM (SEE 86-2.03 OF THE CITY CONSTRUCTION STANDARDS)

SERVICE FOUNDATION SHALL BE MODIFIED PER CONSTRUCTION STANDARD DETAIL TS-8. IF (E) ABOVE GROUND FOUNDATION IS GROUTE MATERIAL, REPOUR ENTIRE FOUNDATION PER TS-5.

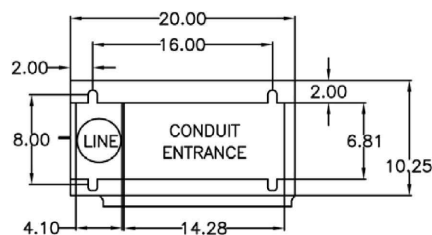
REPLACE (E) TYPE III-AF SERVICE WITH A (N) TESCO 27-22 SERVICE/ BATTERY BACK-UP SYSTEM OR APPROVED EQUIVALENT WITH PEU (OR APPROVED EQUIVALENT). SERVICE FOUNDATION SHALL BE LEVEL.

CABINET FOUNDATION SHALL BE MODIFIED PER CONSTRUCTION STANDARD DETAIL TS-7. REFER TO CALTRANS STANDARD PLANS ES-3A FOR MORE CABINET INFORMATION. CABINET FOUNDATION SHALL BE LEVEL.

ROADWAY/SIDEWALK SIDE

RH

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PUBLIC WORKS DIRECTOR



BASE PLATE LAYOUT
FOR COMBO SERVICE

CITY OF
ROSEVILLE
CALIFORNIA

DEPARTMENT OF
PUBLIC WORKS

332 TO TYPE "P" CABINET/SERVICE PAD CONVERSION DETAIL

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J PASTOR
APPROVED BY: J CERVANTES

TS-6

A= EXISTING 332 CABINET FOUNDATION
PER STANDARD PLANS DRAWING ES-3B.

B= EXISTING PAD AROUND THE 332
CABINET IS TO BE REMOVED AND
REPLACED PER CONSTRUCTION STD.
DRAWING TS-6 WHEN POSSIBLE.

C= EXISTING 332 CABINET MOUNTING BOLTS
TO BE CUT OFF FLUSH WITH PAD.

D= INSTALL TWO NEW CABINET BOLTS
PER STD. PLANS ES-4A SPACING.

E= INSTALL NEW FOUNDATION EXTENSION
TO ACCOMMODATE TYPE "P" CABINET.

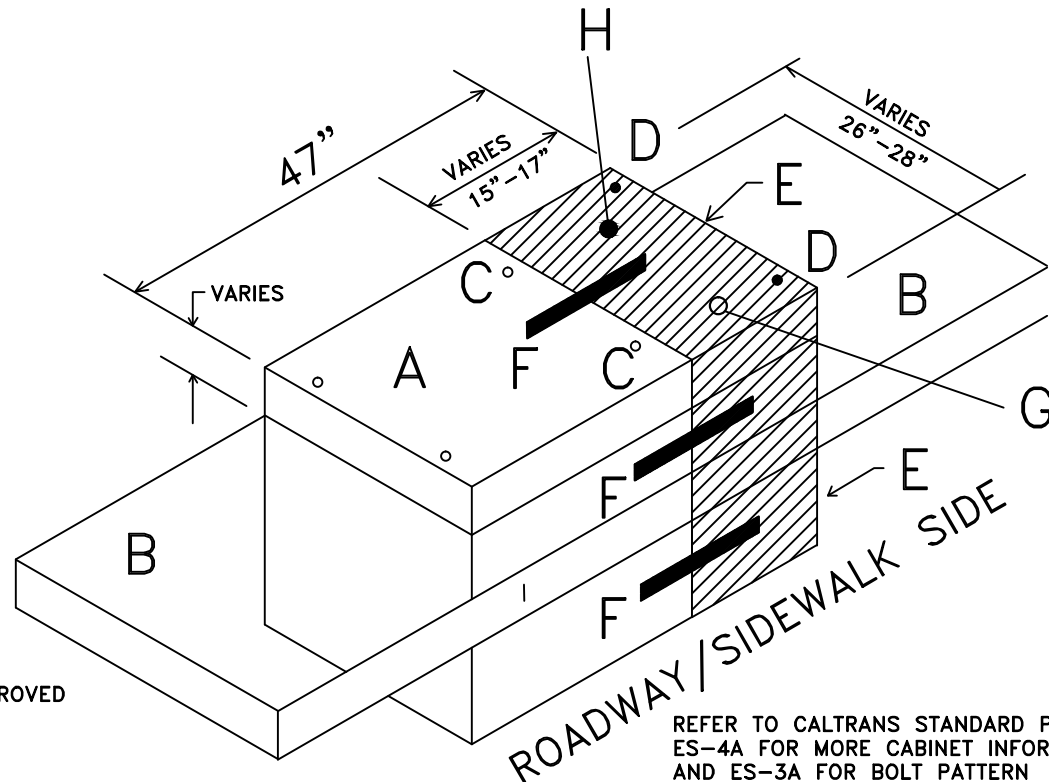
F= INSTALL A MINIMUM OF (3) 5/8" X 17"
METAL DOWELS & TWO PART EPOXY
PER SECTION 71, PARAGRAPH 11
OF THE CITY CONSTRUCTION
STANDARDS.

G= SHOULD THE (E) 332 CABINET NOT HAVE
A CONDUIT INTO THE SERVICE FOUNDATION,
INSTALL ONE 2" C FROM THE NEW 'P' CABINET
FOUNDATION TO THE NEW COMBO/SERVICE
FOUNDATION.

H= SHOULD THE (E) 332 CABINET NOT HAVE AN APPROVED
GROUND ROD, INSTALL GROUND ROD IN NEW
FOUNDATION AREA.

CAUTION: LOCATE (E) CONDUITS IN (E) FOUNDATION
PRIOR TO DRILLING FOR DOWELS TO AVOID
ELECTRICAL SHOCK HAZARD.

- NOTE:** 1) (E) 332 CABINET & 170 CONTROLLER ARE TO REMAIN IN OPERATION WHILE
NEW FOUNDATION & PAD ARE POURED. CONVERSION TO THE NEW TYPE "P" CABINET
& 2070 CONTROLLER ARE TO OCCUR ONLY AFTER COMPLETION OF ALL CONCRETE WORK,
WITH MINIMAL TRAFFIC SIGNAL DOWN TIME.
- 2) THE TYPE "P" CABINET MOUNTING HOLES WILL HAVE TO BE RE-DRILLED ON ONE SIDE TO
MATCH (E) BOLT PATTERN ON (E) FOUNDATION SIDE.
- 3) NEW GROUND ROD AND/OR CONDUITS INSTALLED IN NEW FOUNDATION AREA SHALL
BE LOCATED AT LEAST 3" INSIDE THE NEW CABINET BOLTS TO AVOID HITTING THE NEW
'P' CABINET WHEN INSTALLED.



REFER TO CALTRANS STANDARD PLANS
ES-4A FOR MORE CABINET INFORMATION
AND ES-3A FOR BOLT PATTERN

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PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

EXISTING 332 TO TYPE "P" CABINET PAD CONVERSION DETAIL

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J PASTOR
APPROVED BY: J CERVANTES

TS-7

A= EXISTING TYPE III-AF CABINET FOUNDATION
PER STANDARD PLANS DRAWING ES-2D.

B= EXISTING PAD AROUND THE TYPE III-AF
SERVICE TO BE REMOVED AND REPLACED
PER CONSTRUCTION STANDARD TS-6.

C= EXISTING TYPE III-AF CABINET MOUNTING
BOLTS TO BE CUT OFF FLUSH WITH PAD.

D= INSTALL THREE (3) NEW CABINET BOLTS
PER TESCO 27/22 PLAN SPACING.

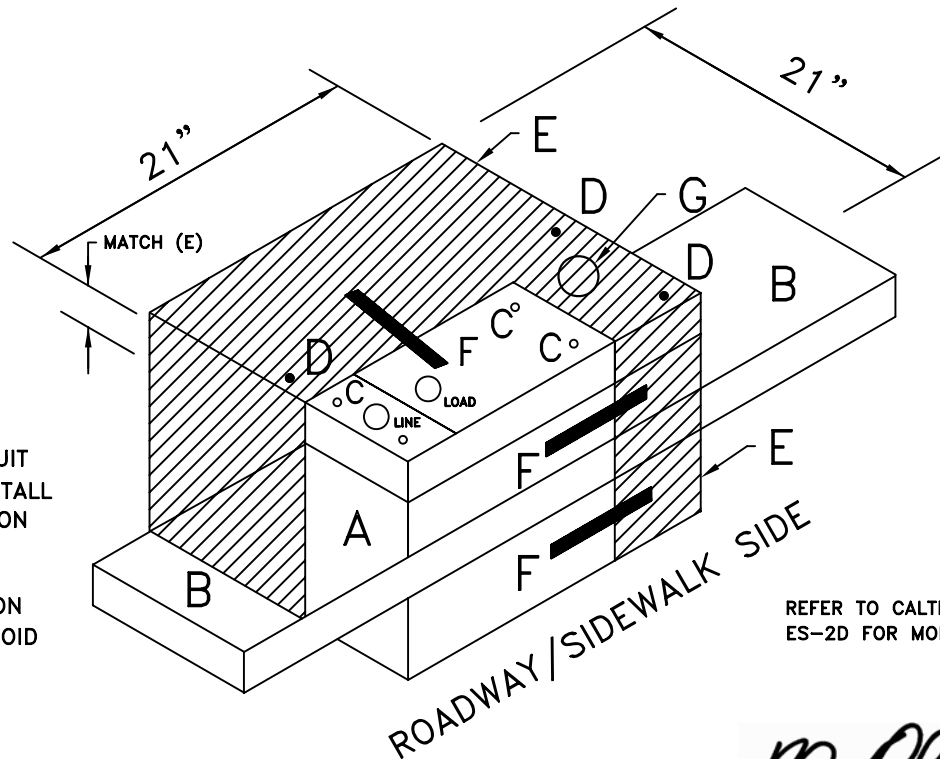
E= INSTALL NEW FOUNDATION EXTENSION
TO ACCOMMODATE TESCO 27-22 OR
APPROVED EQUIVALENT CABINET.

F= INSTALL A MINIMUM OF (4) 5/8" X 12"
METAL DOWELS & TWO PART EPOXY
PER SECTION 71, PARAGRAPH 11
OF THE CITY CONSTRUCTION
STANDARDS.

G= SHOULD THE (E) SERVICE NOT HAVE A CONDUIT
DIRECTLY INTO THE CONTROLLER CABINET, INSTALL
ONE 2" C FROM THE NEW SERVICE FOUNDATION
TO THE NEW 'P' CABINET FOUNDATION.

CAUTION: LOCATE (E) CONDUITS IN (E) FOUNDATION
PRIOR TO DRILLING FOR DOWELS TO AVOID
ELECTRICAL SHOCK HAZARD.

- NOTE:** 1) (E) TYPE III-AF CABINET & SERVICE
ARE TO REMAIN IN OPERATION WHILE
NEW FOUNDATION & PAD ARE POURED.
CONVERSION TO THE NEW COMBO SERVICE/
BATTERY BACK-UP ARE TO OCCUR ONLY
AFTER COMPLETION OF ALL CONCRETE WORK, WITH
MINIMAL TRAFFIC SIGNAL DOWN TIME.
- 2) THE COMBO 22-27 CABINET MOUNTING HOLES MAY
HAVE TO BE RE-DRILLED ON ONE SIDE OF CABINET TO
MATCH (E) BOLT PATTERN ON (E) FOUNDATION SIDE.
- 3) IF (E) ABOVE GROUND FOUNDATION IS GROUT MATERIAL,
REMOVE GROUT AND REPOUR AREA WITH THE NEW
FOUNDATION EXTENSION.
- 4) ANY CONDUITS INSTALLED IN NEW PAD DETAIL SHALL BE
LOCATED AT LEAST 3" INSIDE THE NEW COMBO/SERVICE BOLTS
TO AVOID HITTING THE NEW COMBO/SERVICE CABINET WHEN INSTALLED.



REFER TO CALTRANS STANDARD PLANS
ES-2D FOR MORE CABINET INFORMATION

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DEPARTMENT OF
PUBLIC WORKS

EXISTING TYPE III-AF 27-22 COMBO PAD CONVERSION DETAIL

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-8

```

A= TYPE "A" OR "E" LOOP
C= CLOCKWISE WOUND LOOP
CC= COUNTER CLOCKWISE WOUND LOOP
D= TYPE "D" LOOP OR QUADRACIRCLE
1-1= LANE # , LOOP#
COUNT= COUNT LOOP

```

* CENTER LOOPS IN EFFECTIVE AREA.

* HANDHOLES SHALL BE PLACED BETWEEN PRESENCE & COUNT LOOPS IN THE THROUGH LANES.

THROUGH LANE

THROUGH LANE

LEFT TURN LANE

	(1)		(2)		(1)		(2)		(3)	
	LT		LT		THRU		THRU		THRU	
	170	2070	170	2070	170	2070	170	2070	170	2070
CALL TYPE 3/QUEUE ⑥	111U 315U 5J1U 7J5U	1 7 15 21	111L 315L 5J1L 7J5L	1 7 15 21	214U 6 418U 12 6J4U 20 8J8U 26				214L 6 418L 12 6J4L 20 8J8L 26	
COUNT/VOLUME TYPE 3/QUEUE #	119U 13 319L 14 5J9U 27 7J9L 28				213U 4 417U 10 6J3U 18 8J7U 24	212U 2 416U 8 6J2U 16 8J6U 22	2 8 16 22	212L 3 416L 9 6J2L 17 8J6L 23	3 9 17 23	
EXTENSION					213L 5 417L 11 6J3L 19 8J7L 25					

= L/T's are Count-Volume/Extension Detectors

* Separate DLC's shall be provided for each loop detector and a permanent label shall be provided to designate their location.

RR RR.

RHON HERNDON
PUBLIC WORKS DIRECTOR

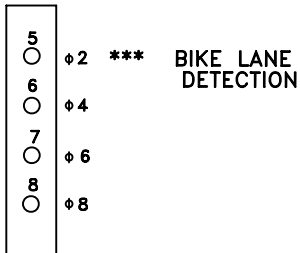
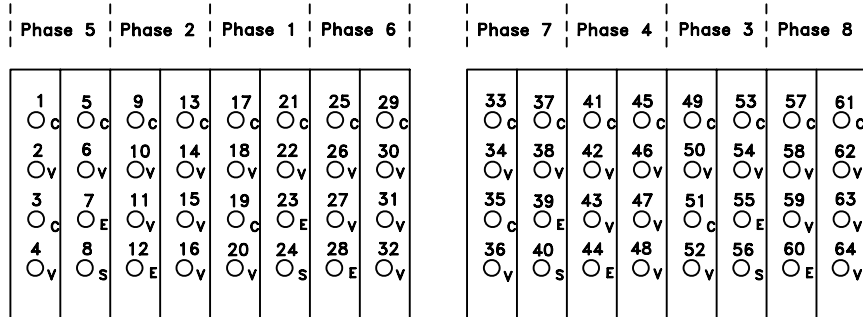
DEPARTMENT OF
PUBLIC WORKS

332 TYPICAL LOOP DETECTOR LAYOUT

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

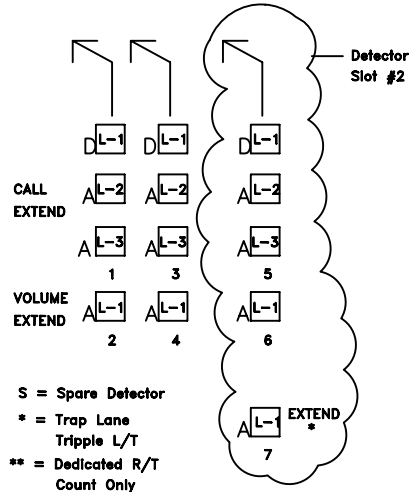
TS-9

TYPE "P" CABINET DETECTOR LAYOUT

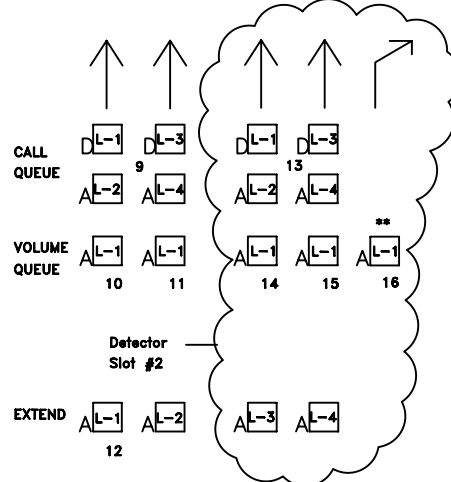


A = TYPE "A" OR "E" LOOP
D = TYPE "D" OR QUADRACIRCLE

TYPICAL LEFT TURNS



TYPICAL THRU LANES



NOTE: Separate DLC's shall be provided for each loop detector and a permanent label shall be provided to designate their location.

2070 LOOP DETECTOR ASSIGNMENTS

	(1) THRU	(2) THRU	(3) THRU	(4) THRU	(5) R/T
CALL QUEUE C	1/17 3/49 5/1 7/33	1/19 3/51 5/3 7/35	1/21 3/53 5/5 7/37	2/9 4/41 6/25 8/57	2/13 4/45 6/29 8/61
VOLUME QUEUE V	1/18 3/50 5/2 7/34	1/20 3/52 5/4 7/36	1/22 3/54 5/6 7/38	2/10 4/42 6/26 8/58	2/11 4/43 6/27 8/59
EXTENSION E	1/23 3/55 5/7 7/39	2/12 4/44 6/28 8/60			

© = L/T's are Call/Extension Detectors

= L/T's are Volume/Extension Detectors

*** = If Phase 5 is a Tripple L/T use the Phase 1 Second Slot for Bike Lane Detection

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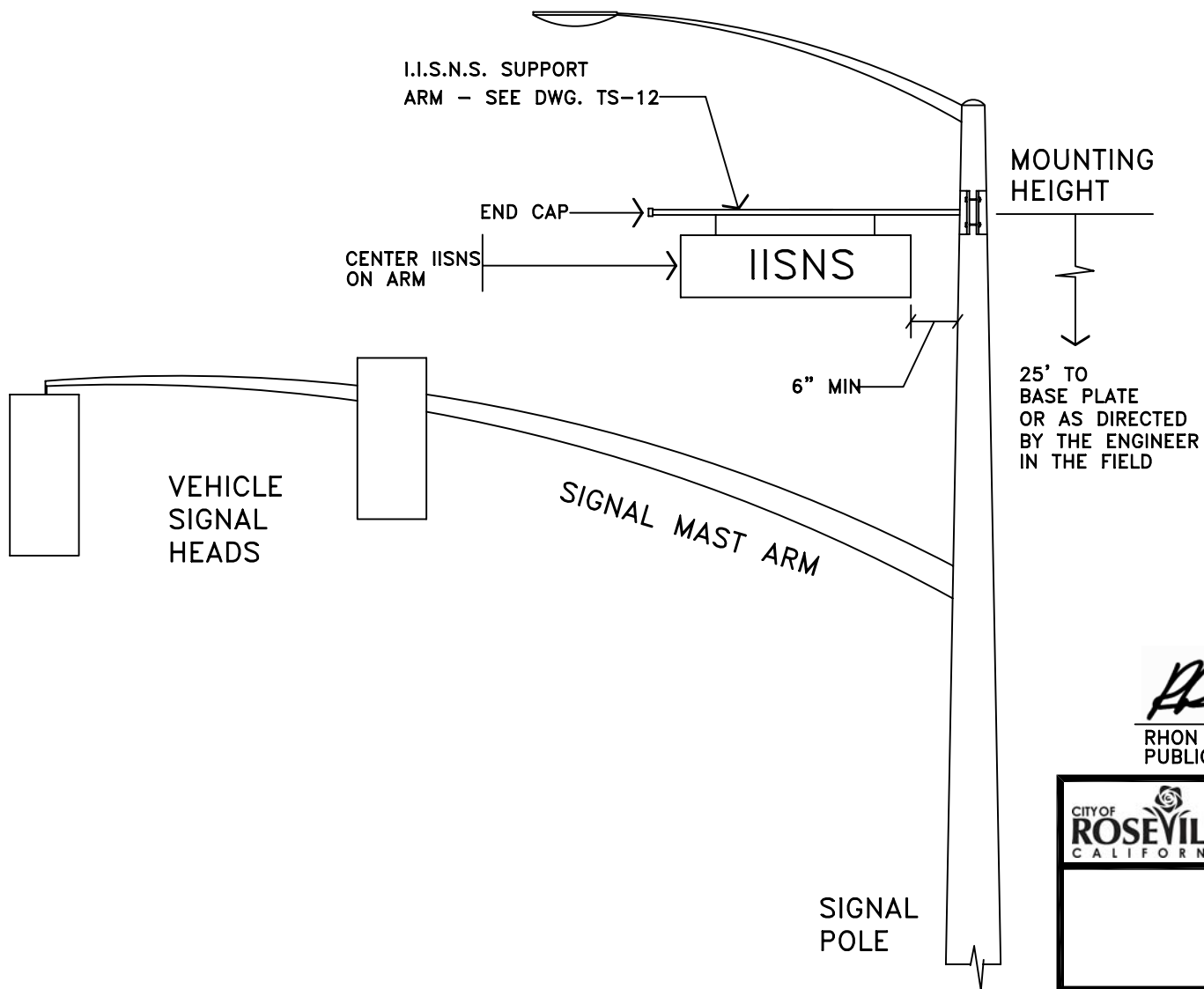


DEPARTMENT OF
PUBLIC WORKS

TYPE P CABINET LOOP DETECTOR
LAYOUT

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-10



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PUBLIC WORKS DIRECTOR

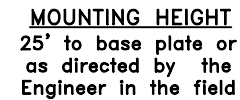


DEPARTMENT OF
PUBLIC WORKS

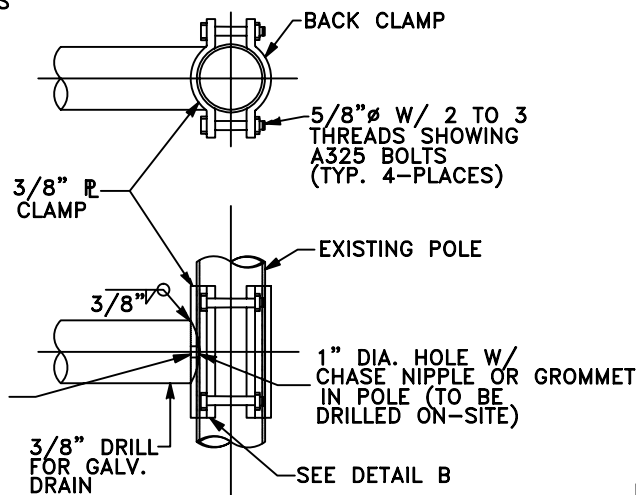
IISNS SUPPORT ARM
MOUNTING DETAIL

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-11



A SEPARATE LIGHTING CIRCUIT SHALL BE INSTALLED TO POWER THE SIGNS.
(120 V./TWO #12 AWG CONDUCTORS).
A 3/4" LB CONDOLET SHALL BE INSTALLED AS A DISCONNECTING POINT BETWEEN THE SIGN AND THE SYSTEM POWER SOURCE.



RHON HERNDON
PUBLIC WORKS DIRECTOR



CITY OF
ROSEVILLE
CALIFORNIA

DEPARTMENT OF
PUBLIC WORKS

IISNS SUPPORT ARM TYPICAL CLAMP DETAIL

NOTE: FURNISH SEPARATE CIRCUIT FOR IISNS
TO BE CONNECTED TO THE BATTERY BACKUP

*INCLUDE ENGINEERED SUPPORT ARM AND
SIGNAL POLE LOAD CALCULATIONS IF NOT
ALREADY ON FILE WITH THE CITY.*

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

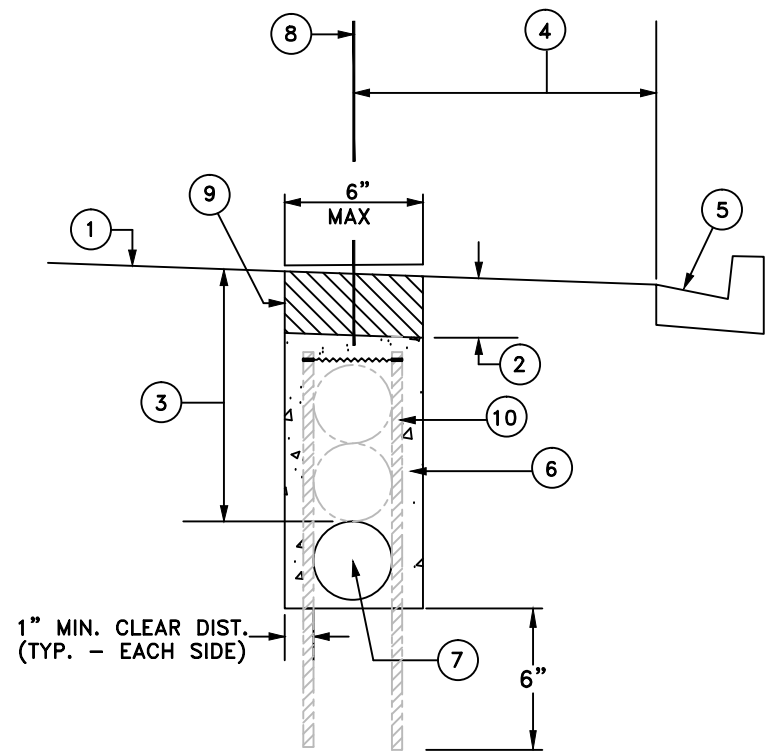
TS-12

LEGEND:

1. SURFACE OF EXISTING STREET SECTION.
2. .25' THICK ASPHALT CONCRETE PER SECTION 71-4.D. (93% RELATIVE COMPACTION).
3. PIPE COVER TO BE A MINIMUM 18" (18" MIN TO 30" MAX).
4. DISTANCE VARIES. IF LESS THAN 3 FEET, THEN CONTRACTOR IS REQUIRED TO EDGE GRIND FROM LIP OF GUTTER (.15' DEEP) TO INSIDE LIMIT LINE OF TRENCH.
5. EXISTING CURB AND GUTTER.
6. "MINOR CONCRETE" CONFORMING TO THE PROVISIONS IN SECTION 71-5B, "CONCRETE", WITH FINE AGGREGATE (PEA GRAVEL MIX). CONCRETE SHALL BE FLOW-ABLE AT DISCRETION OF CITY INSPECTOR.
7. CONDUIT(S) AS SPECIFIED.
8. CENTER LINE OF BIKE LANE STRIPE.
9. PLACE BINDER (TACK COAT) ON ALL SURFACES PRIOR TO PAVING PER SECTION 39 OF STATE STANDARD SPECIFICATIONS.
10. REINFORCING BARS 2 - #3 TO SUPPORT MULTIPLE CONDUITS, VERTICAL ALIGNMENT ONLY. REINFORCING BARS SHALL BE DRIVEN 6" INTO BOTTOM OF TRENCH AND WIRED TOGETHER AT THE TOP. REINFORCING BAR SUPPORTS SHALL BE 8'-0" ON CENTER. MAXIMUM 3 - 3" CONDUITS PER ROCKWHEEL TRENCH.

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF BIKE LANE STRIPE AND LEGENDS (AFFECTED BY TRENCHING) WITH THERMOPLASTIC MATERIAL.
2. ALL EXCAVATED AREAS IN THE PAVEMENT SHALL BE BACKFILLED, EXCEPT FOR THE TOP 0.25' BY THE END OF EACH WORK DAY. THE TOP .25' SHALL BE PLACED WITHIN 3 WORKING DAYS AFTER TRENCHING. DELINEATORS SHALL BE PLACED ON TEN FOOT CENTERS, AND WITHIN 1' OF EACH SIDE OF DRIVEWAYS IN THE INTERIM. REFER TO SECTION 6.2.W.5. FOR TRANSITION LOCATIONS.
3. TRENCH CUT FEE SHALL APPLY PER CITY ORDINANCE. NO ALTERNATE TRENCH CONFIGURATION IS ALLOWED.
4. DETECTOR HANDHOLES (DH's) CONDUIT SHALL BE INSTALLED IN A SEPARATE TRENCH.



RHON HERNDON
DIRECTOR OF PUBLIC WORKS

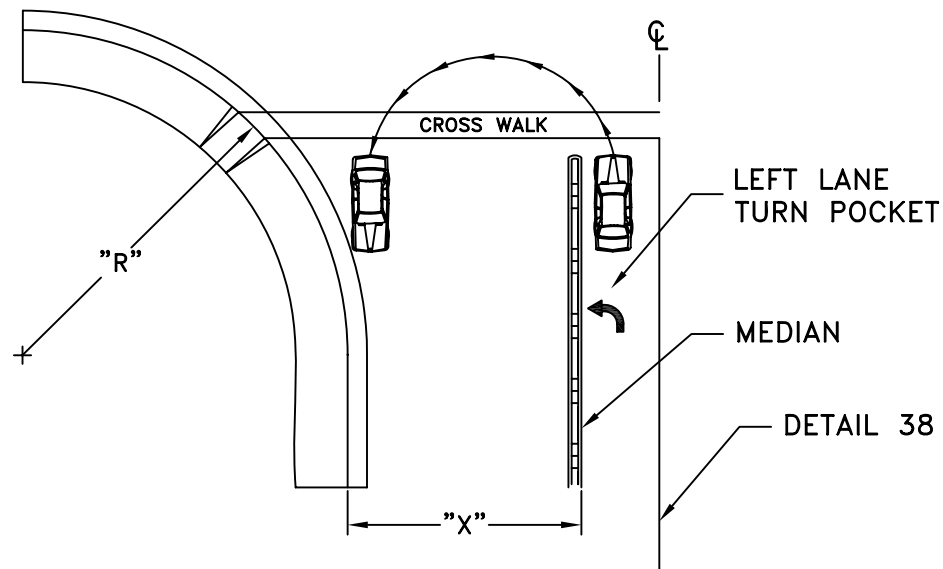


DEPARTMENT OF
PUBLIC WORKS

TRAFFIC SIGNAL ROCK WHEEL TRENCH
(IN EXISTING STREET)

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J PASTOR
APPROVED BY: G HOWES

TS-13



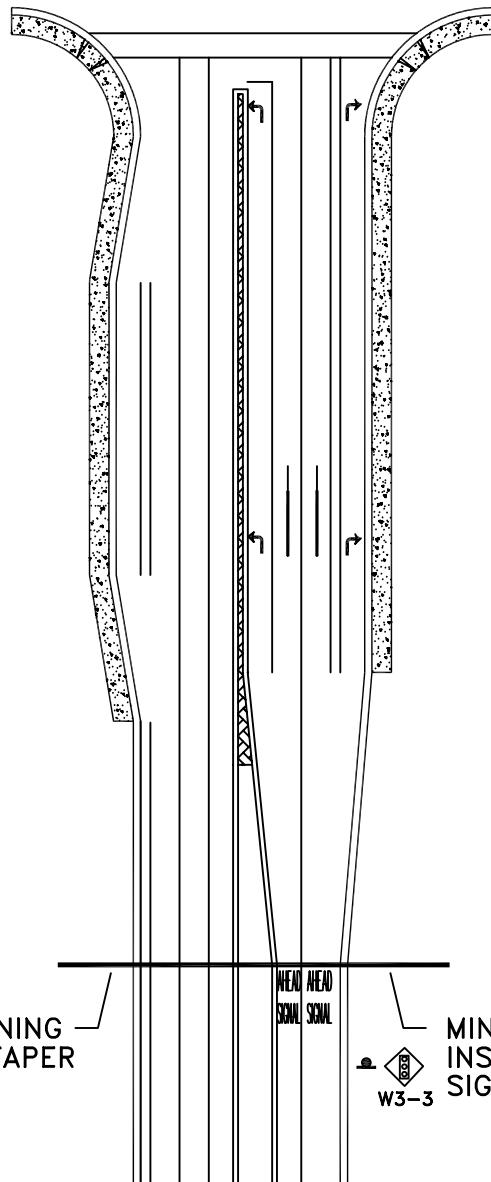
RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. U-TURNS ARE PERMISSIBLE UNDER THE FOLLOWING CONDITIONS:
IF "R" < 50', THEN "X" ≥ 35'
IF "R" ≥ 50', THEN "X" ≥ 30'
2. U-TURNS MAY BE RESTRICTED DUE TO RIGHT TURN OVERLAPS OR OTHER CONDITIONS DETERMINED BY THE CITY ENGINEER.
3. SIGN DETAILS NUMBERS REFERENCE THE 2006 CALIFORNIA MUTCD.
4. INSTALL TYPE R73-5 SIGN WHERE DUAL LEFT TURNS AND U-TURNS ARE PERMITTED.
5. WHERE U-TURNS ARE PERMITTED FOR A SINGLE LEFT TURN, NO SIGNS ARE NECESSARY.

	DEPARTMENT OF PUBLIC WORKS	
U-TURNS		
SCALE: NONE REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON		TS-15



POSTED OR 85TH PERCENTILE SPEED	ADVANCED STREET G7 SIGNS	ADVANCED W3-1, W3-3, SIGNS	NO PARKING SIGNS
20MPH	175FT	N/A	300FT
25MPH	250FT	N/A	300FT
30MPH	325FT	100FT	300FT
35MPH	400FT	150FT	300FT
40MPH	475FT	225FT	300FT
45MPH	550FT	300FT	300FT
50MPH	625FT	375FT	300FT
55MPH	700FT	450FT	300FT
60MPH	775FT	550FT	300FT
65MPH	850FT	650FT	300FT

* USE EXISTING STREET LIGHT POLES WHERE POSSIBLE

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

ADVANCED SIGN SPACING REQUIREMENTS

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

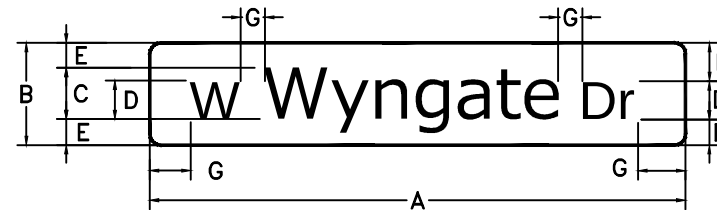
TS-16

LEGEND:

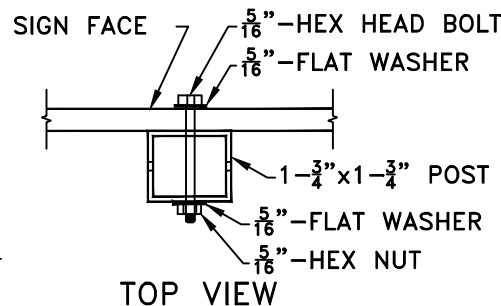
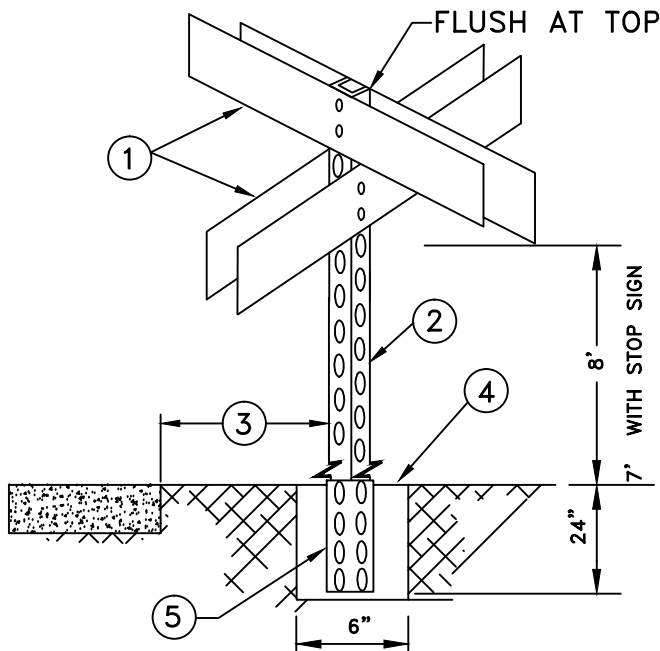
1. STREET NAME SIGNS.
2. SIGN POST SHALL BE SQUARE METAL WHITE POWDER COATED 12 GAUGE POSTS. REFER TO SECTION 56.02A.
3. EDGE OF STREET NAME SIGN SHALL BE A MINIMUM OF 2' FROM FACE OF CURB OR AT BACK OF SIDEWALK.
4. POST HOLE FOOTING SHALL BE 24" DEEP AND $\phi 6"$ IN DIAMETER AND BACKFILLED WITH MINOR CONCRETE.
5. 24" GALVANIZED ANCHOR SLEEVE SHALL BE INSTALLED IN POST FOOTING. TOP TWO HOLES OF ANCHOR SLEEVE SHALL REMAIN ABOVE FINISH GRADE OF CONCRETE, HOLES BELOW FISH GRADE SHALL BE TAPED CLOSED. NO MATERIAL OTHER THAN SQUARE POST SHALL INTRUDE INTO SLEEVE. THE SQUARE POST SHALL MOVE FREELY IN THE SLEEVE IN A VERTICAL DIRECTION UPON INSTALLATION.
6. SIGN PLATE ATTACHMENT SHALL USE $\frac{5}{16}" \times 2\frac{1}{2}"$ ZINC PLATED HEX HEAD BOLTS AND NUTS. $\frac{5}{16}"$ ZINC PLATED WASHERS SHALL BE USED INSIDE OF BOLT AND NUT PER TOP VIEW DETAIL BELOW.

SIGN PLATE SPECIFICATIONS:

- A. SIGN PLATES SHALL BE 8" OR 12" TALL AND 24" TO 48" LONG IN 6" INCREMENTS.
- B. SIGN PLATES SHALL BE 0.080 GAUGE ALUMINUM.
- C. SIGN PLATE FINISH SHALL BE 3M HIGH INTENSITY PRISMATIC GRADE RETRO REFLECTIVE BACKGROUND WITH 3M ELECTRONIC CUTTABLE GREEN FILM SHEETING OR APPROVED EQUIVALENT. LETTER OF AUTHENTICITY IS REQUIRED. FOR SIGN REQUIREMENTS SEE CONSTRUCTION STANDARDS SEC. 56 - SIGNS 56-1.01.
- D. FONT FOR STREET NAME SIGNS SHALL BE FHWA SERIES "D" 2000EX. IF STREET NAME TEXT IS TOO LONG FOR 48" SIGN PLATE, SERIES "C" FHwy FONT MAY BE USED UPON APPROVAL FROM PUBLIC WORKS DIRECTOR.



SIGN DIMENSIONS							
MPH	A	B	C	D	E	F	G
25	VARIABLE	8"	4"	3"	2"	3"	3"
≥30	VARIABLE	12"	6"	4"	3"	5"	4.5"



Marc Stout

MARC STOUT
CITY ENGINEER

CITY OF
ROSEVILLE
CALIFORNIA

DEVELOPMENT SERVICES
DEPARTMENT

ROADWAY SIGNS

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

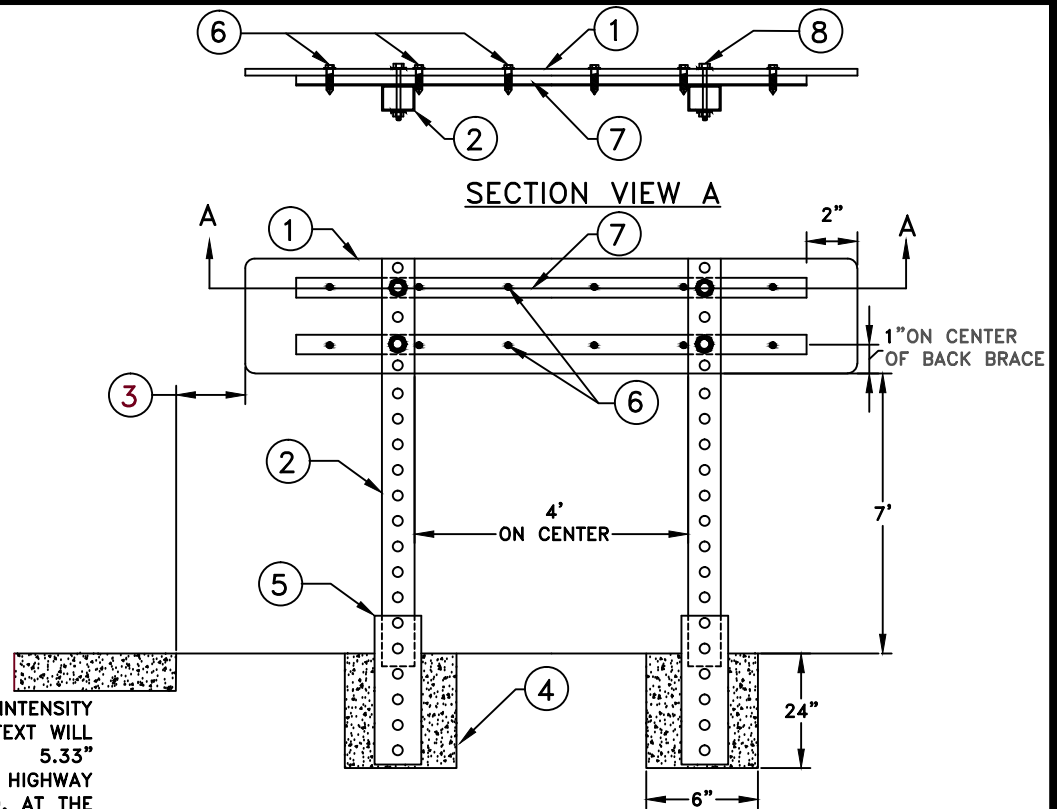
TS-17A

LEGEND:

1. STREET NAME SIGNS, D3 OR G8 GUIDE SIGN.
2. SIGN POST SHALL BE SQUARE METAL WHITE POWDER COATED 12 GAUGE POSTS. REFER TO SECTION 56.02A.
3. EDGE OF STREET NAME SIGN SHALL BE A MINIMUM OF 2' FROM FACE OF CURB OR AT BACK OF SIDEWALK.
4. POST HOLE FOOTING SHALL BE 24" DEEP AND $\phi 6"$ IN DIAMETER AND BACKFILLED WITH MINOR CONCRETE.
5. 24" GALVANIZED ANCHOR SLEEVE SHALL BE INSTALLED IN POST FOOTING. TOP TWO HOLES OF ANCHOR SLEEVE SHALL REMAIN ABOVE FINISH GRADE OF CONCRETE, HOLES BELOW FISH GRADE SHALL BE TAPED CLOSED. NO MATERIAL OTHER THAN SQUARE POST SHALL INTRUDE INTO SLEEVE. THE SQUARE POST SHALL MOVE FREELY IN THE SLEEVE IN A VERTICAL DIRECTION UPON INSTALLATION.
6. THE SIGN MUST BE FASTENED TO THE BACK BRACING USING NO.14 $\times \frac{3}{4}"$ LONG SELF TAPPING SCREWS, RIVETS OR APPROVED EQUAL AND SPACED 10" OFF CENTER.
7. BACK BRACING FOR SIGNS OVER FIVE SQUARE FEET SHALL BE CONNECTED TO THE POST. THE BACK BRACING SHALL BE MINIMUM OF $1-\frac{5}{8}" \times \frac{1}{8}" \times L$ (LENGTH VARIES), 14 GAUGE MINIMUM. A USTRUT, U-CHANNEL, SQUARE TUBING, C-CHANNEL OR APPROVED EQUAL CAN BE USED.
8. SIGN PLATE AND BACK BRACING ATTACHMENT SHALL USE $\frac{5}{8}"-18 \times 3-\frac{1}{2}"$ ZINC PLATED HEX HEAD BOLTS WITH $\frac{5}{8}"$ ZINC PLATED HEX NUTS USING $\frac{5}{8}"$ WASHER BETWEEN BOLT/HEAD AND SIGN PLATE. THREADS SHALL NOT PROTRUDE FARTHER THEN $\frac{1}{4}"$ PAST THE HEX NUT.

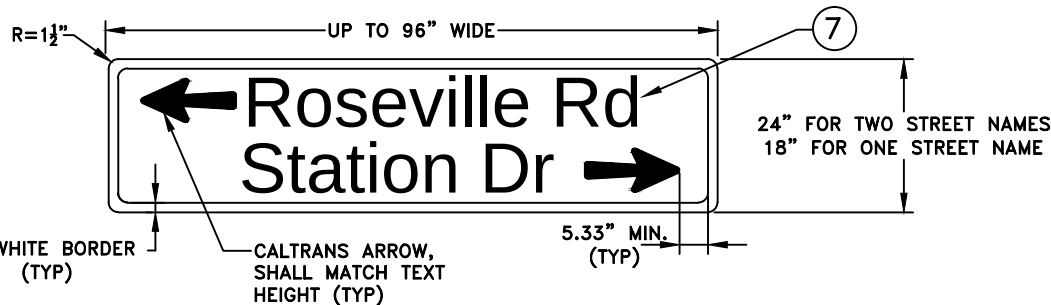
SIGN PLATE SPECIFICATIONS:

- A. TEXT SIZE SHALL BE 8" UPPER AND LOWER CASE WHITE HIGH INTENSITY PRISMATIC (HIP) OR APPROVED EQUAL. SERIES C HIGHWAY FONT TEXT WILL BE CENTERED TOP AND BOTTOM AND SIDES HAVE A MINIMUM 5.33" CLEAR SPACE FROM EDGE OF SIGN PLATE. IN THE EVENT A 8" HIGHWAY FONT EXCEEDS 96", 7" SERIES "C" HIGHWAY FONT MAY BE USED, AT THE DISCRETION OF THE PUBLIC WORKS DIRECTOR
- B. SIGN PLATES SHALL BE 0.080 GAUGE ALUMINUM.
- C. SIGN PLATE FINISH SHALL BE 3M HIGH INTENSITY PRISMATIC GRADE RETRO REFLECTIVE BACKGROUND WITH 3M ELECTRONIC CUTTABLE GREEN FILM SHEETING OR APPROVED EQUIVALENT. LETTER OF AUTHENTICITY IS REQUIRED. SEE CONSTRUCTION STANDARDS SEC 56 - SIGNS, 56 - 1.01.
- D. SIGNS SHALL BE D3 OR G8 GUIDE SIGNS.



Marc Stout

MARC STOUT
CITY ENGINEER



DEVELOPMENT SERVICES
DEPARTMENT

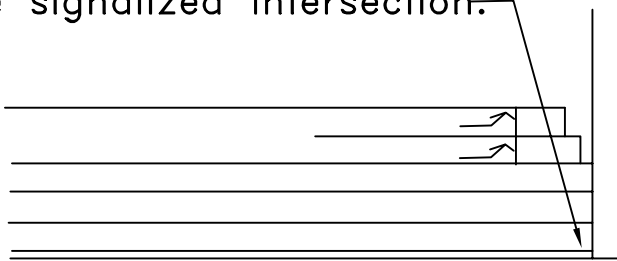
MID BLOCK ROADWAY SIGNS

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

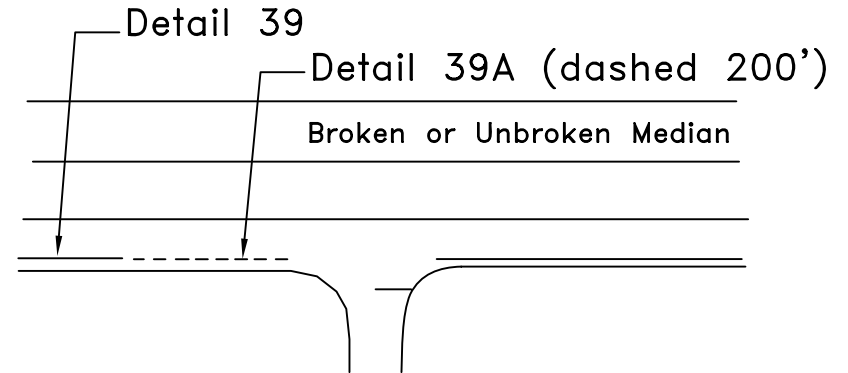
TS-17B

SIGNALIZED INTERSECTIONS

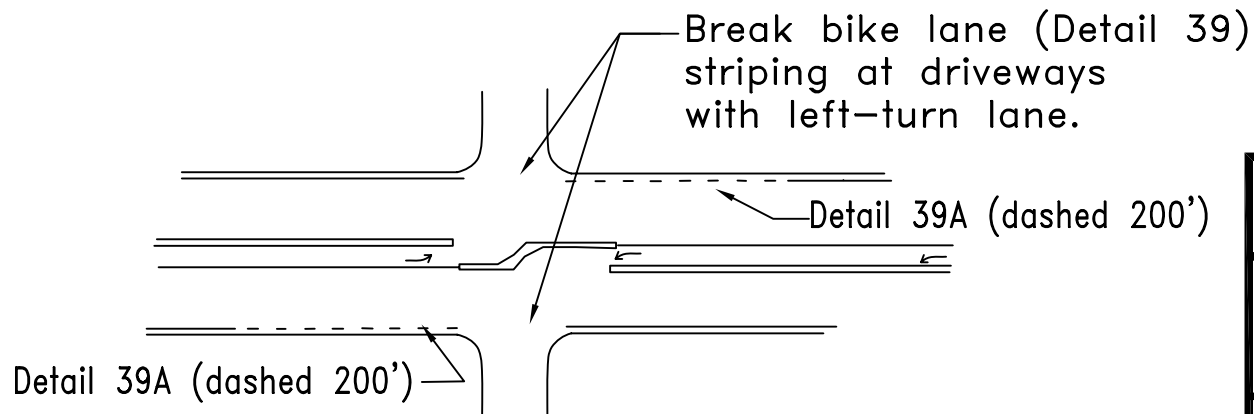
Extend bike lane (Detail 39) to the signalized intersection.



PUBLIC ROADWAYS



PRIVATE DRIVEWAYS WITH A LEFT-TURN LANE



RHON HERNDON
PUBLIC WORKS DIRECTOR



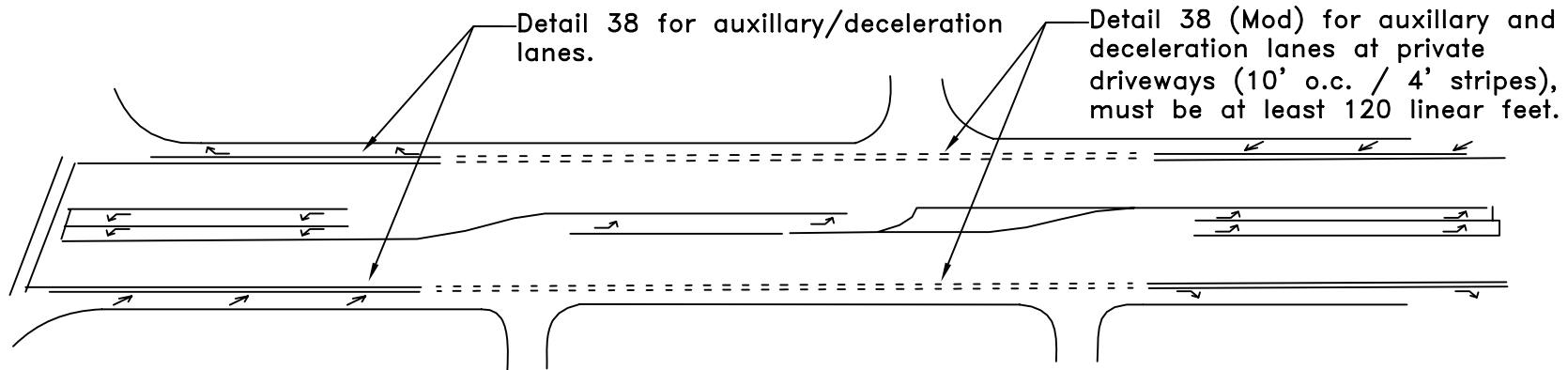
DEPARTMENT OF
PUBLIC WORKS

STREET NAME SIGNS

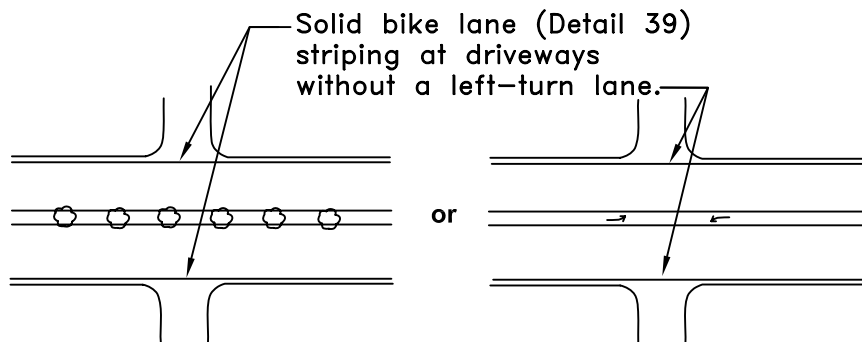
SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-18

AUXILLARY LANES



PRIVATE DRIVEWAYS WITHOUT A LEFT-TURN LANE



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

BIKE LANE STRIPING

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-19



RH

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

TRIPLE LEFT STRIPING

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-20

INTERSECTION RED FLASH APPROVAL

With stamped approval of this letter by the Traffic Section, Red Flash/Dark Signal is approved for the following intersection as specified below:

LOCATION: _____

PROJECT ACCOUNT NUMBER: _____

DATE: _____

TIME/DURATION: _____

☐ RED FLASH APPROVED:

1. Contractor shall contact the City Inspector 48 hours prior to needing the intersection in red flash. Signal shutdown shall be performed only by City personnel, unless otherwise directed by the Engineer.
2. The contractor shall contact the Traffic Signal Technician either by telephone at **(916)746-1760** or by email or text message at pagesignaltechnicians@roseville.ca.us one hour prior to needing the traffic signal placed into or removed from red flash.
3. Contractor shall notify City Police and Fire at 774-5118 one hour prior to placing signal in red flash and 10 minutes after removing signal from red flash.
4. The Contractor shall reimburse the City for the actual cost of all inspection, including City Traffic Signal Technician time as required.

☐ DARK SIGNAL APPROVED – ADDITIONAL REQUIREMENTS

1. The Contractor shall place "Stop Ahead" C-W17 and "Stop" R-1 signs to direct vehicle and pedestrian traffic through the intersection during traffic signal system shutdown. Temporary "Stop Ahead" and "Stop" signs shall be removed when the system is turned on.
2. "Stop Ahead" and "Stop" signs shall be furnished by the Contractor. Minimum size of "Stop" signs shall be 36" for single sign placements and 24" for dual sign placements. Signs shall be mounted at a **height of 84"**.
3. One "Stop Ahead" sign and one "Stop" sign shall be placed for each direction of traffic. For approaches with two or more through or left turn lanes, two "Stop" signs shall be placed. Typical sign placement should be between the left turn and through lanes. Additional "Stop" signs should be placed on the shoulder. No "Stop" signs shall be placed in a manner that blocks bike lanes.
4. "Stop Ahead" and "Stop" signs shall be in place in each direction immediately prior to the intersection going dark and removed immediately after the intersection is placed back into red flash.
5. **Red flashing beacons or flares shall** be placed and maintained at each "Stop" sign during nighttime (dark) hours.
6. Traffic control must be verified by the Public Works Construction Inspector prior to the signal being deactivated.

☐ **I have read the above Intersection Red Flash Approval requirements.**

REQUESTOR
INFO:

Name of Company

Print Name of Requestor

Contact Phone Number

SIGNATURE: **X** _____ / /
Date

INSPECTOR NAME: _____ Inspector. Phone #: _____

Copy To: Contractor, Public Works Inspector, Signal Technicians, File

NOTE: Contractor is required to follow all requirements of this letter and keep a signed and stamped copy at job site.

Traffic Signal Inspection Check List

PWI – Public Works Inspector

TECH – Signal Technician

ENG – City Traffic Engineer

PRIOR TO BEGINNING WORK

- ☐ **Pre-Job – PWI** - PWI to e-mail the Signal Technicians a minimum of 24 hours prior to the scheduled project pre-job meeting. The TECH assigned to the project will respond to the PWI's e-mail confirming attendance.
- ☐ **Communications – PWI** - At the pre-job meeting, the chain of communication shall be clearly defined. Requests for inspection, City supplied equipment, beginning of functional testing, and the scheduling of signal turn-on must be through the PWI. All other communication should either go through or be relayed to the PWI.

DURING CONSTRUCTION

- ☐ **Approve Pole Locations – PWI, TECH, ENG** – Pole locations, face of curb, utilities, limit lines, and lane lines shall be clearly marked and checked by the PWI prior to requesting inspection by the TECH and ENG.
- ☐ **Approve Controller and Service Cabinet Locations – PWI, TECH, ENG** – Face of curb, back of walk, and signal poles shall be clearly marked and verified by the PWI prior to requesting inspection by the TECH and ENG
- ☐ **Approve PTZ Camera Location – PWI, TECH, ENG**
- ☐ **Approve Loop/Handhole Layout – PWI, TECH, ENG** – Lane lines, limit lines, and medians shall be clearly marked and verified by the PWI prior to inspection by TECH and ENG.
- ☐ **Inspect Signal Pole Foundation – PWI** - including size, reinforcement cage, foundation conduit, bolt pattern, bolt orientation, and foundation height
- ☐ **Inspect Conduit Trenches – PWI** - including depth, width, and location
- ☐ **Inspect Controller and Service Cabinet Foundations – PWI**
- ☐ **Inspect Conduit, Pull Box, and Handhole Installations – PWI** – Handholes must be located on the lane lines. Check conduit/Pull Box sizes.
- ☐ **Inspect Loop Installation – TECH**
- ☐ **Inspect Trench Backfill – PWI** - including AC/PCC repair
- ☐ **Inspect DLC Installation – TECH**
- ☐ **Inspect Signal Pole Installation – PWI, TECH**
- ☐ **Inspect Phase and Service Wire Installation – TECH**
- ☐ **Inspect Signal Head Installation and Alignment – TECH**
- ☐ **Request City Supplied Equipment – TECH, ENG** – requires 10 day notice and prepayment for equipment prior to contractor pick-up unless exempt (contact Engineering for invoice)
- ☐ **Inspect Controller and Service Cabinet Installations – TECH** – PWI to notify the TECH 48 hours prior to the contractor's scheduled equipment pickup date.
- ☐ **Inspect Pedestrian Push Button, Opticom, and Luminaire Installation – TECH**
- ☐ **Inspect SIC Installation - TECH**

PRIOR TO SIGNAL ACTIVATION

- ☐ **Install/Verify Approved Signal Timing - TECH**
- ☐ **5 Day Functional Test – TECH**
- ☐ **Flash Out Signal – TECH**
- ☐ **Initiate QuicNet Communication – TECH**
- ☐ **Verify Final Striping – PWI, TECH, ENG**
- ☐ **Signal Turn-On – PWI, TECH, ENG**

POST SIGNAL ACTIVATION

- ☐ **Verify all Signal Indications and Pedestrian Phases Operational – TECH, ENG**
- ☐ **Monitor Signal Timing – TECH, ENG**
- ☐ **Generate Signal Punch List – TECH, ENG**

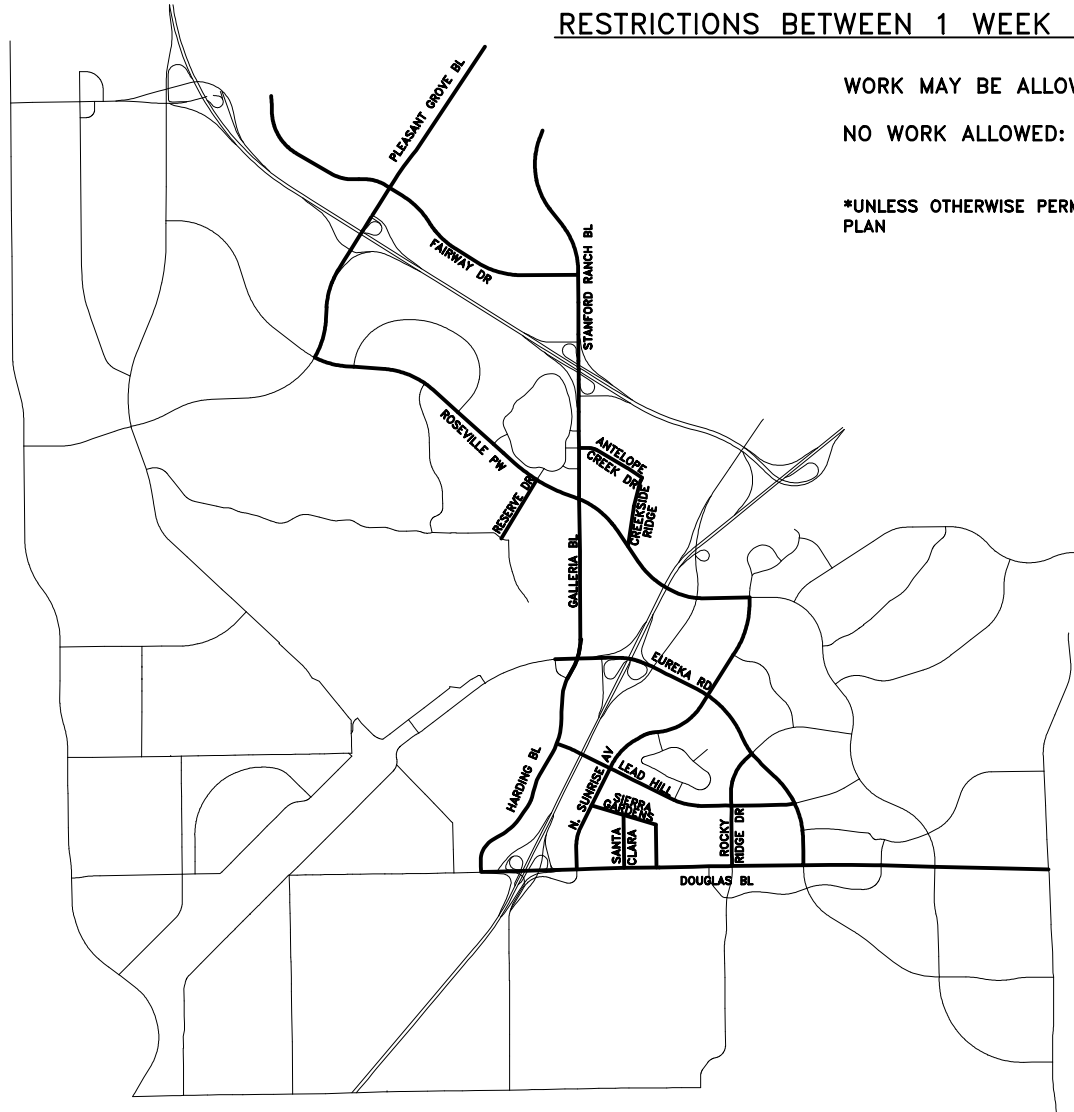
48 hour notice required for inspections, Functional testing, and Signal Turn-On without prior approval.

RESTRICTIONS BETWEEN 1 WEEK PRIOR TO THANKSGIVING & JANUARY 3RD

WORK MAY BE ALLOWED: WEEKDAYS 9PM TO 11AM

NO WORK ALLOWED: WEEKDAYS 11AM TO 9PM
WEEKENDS/HOLIDAYS

*UNLESS OTHERWISE PERMITTED BY AN APPROVED TRAFFIC CONTROL PLAN



LEGEND

— RESTRICTED ROADWAYS

RH Herndon

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PUBLIC WORKS DIRECTOR

CITY OF
ROSEVILLE
CALIFORNIA

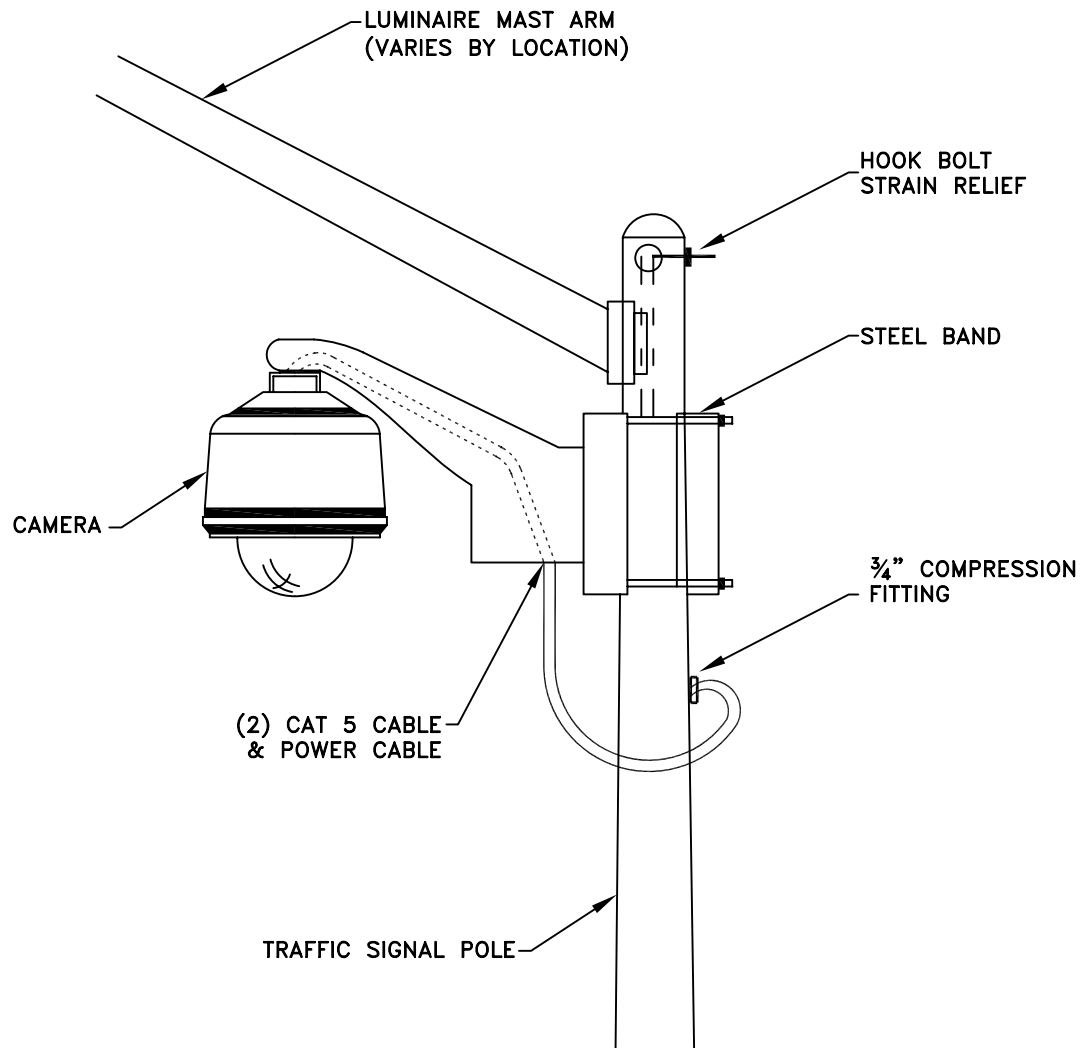
DEPARTMENT OF
PUBLIC WORKS

**HOLIDAY TRAFFIC CONTROL
RESTRICTIONS**

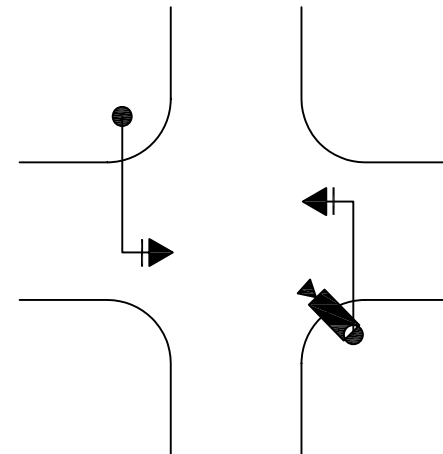
(IN ADDITIONS TO CITY STANDARDS WORKING HOUR RESTRICTIONS)

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J PASTOR
APPROVED BY: J CERVANTES

TS-23



CCTV MOUNTING ASSEMBLY ORIENTATION



THE ROTATION OF THE CCTV MOUNT SHALL BE ALIGNED TO A POINT AT THE TRAFFIC SIGNAL POLE ON THE DIAGONALLY OPPOSITE CORNER.

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RHON HERNDON
PUBLIC WORKS DIRECTOR

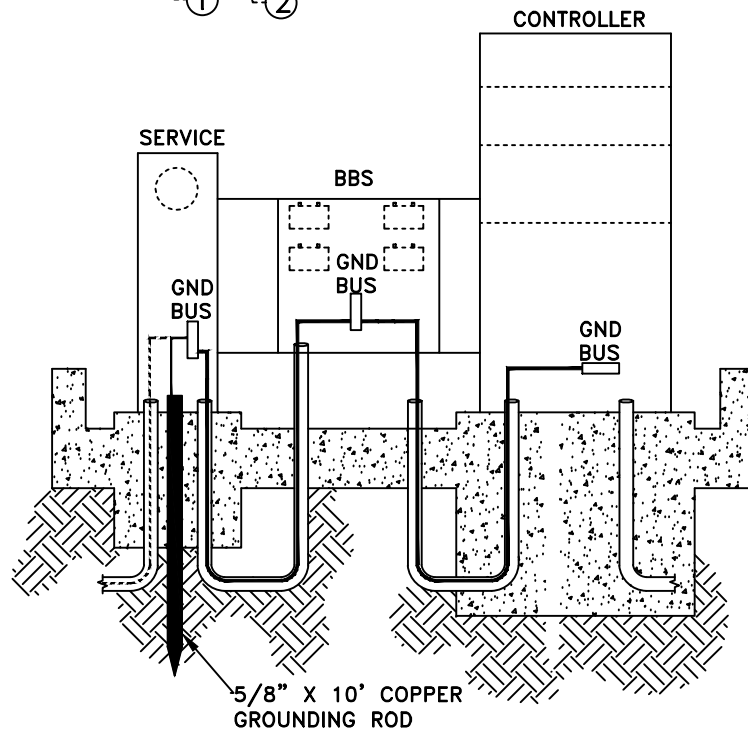
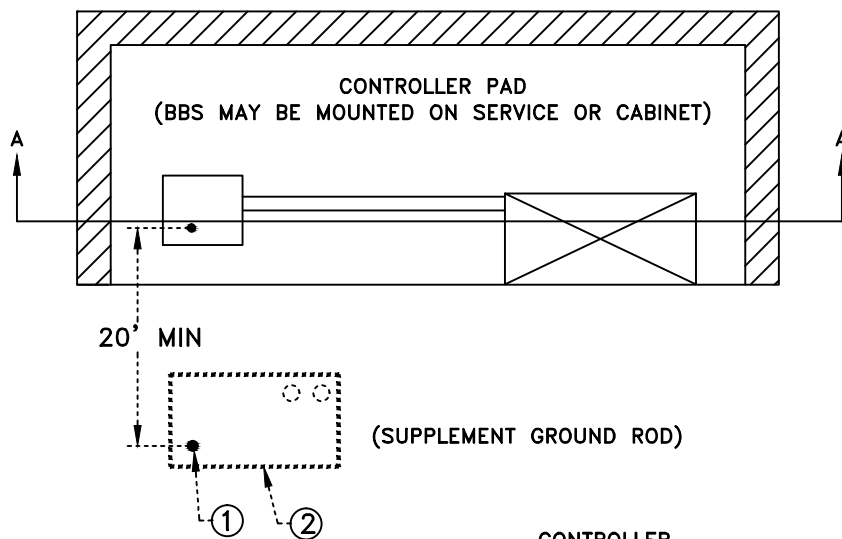


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CCTV MOUNTING ASSEMBLY

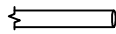
SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

TS-24



SECTION A

LEGEND

-  $\phi 5/8"$ x 10' GROUNDING ROD
-  CONDUIT
-  GROUNDING ELECTRODE CONDUCTOR #6 STRANDED WITH THW INSULATION (COLOR GREEN)
-  EQUIPMENT GROUNDING CONDUCTOR - #8 STRANDED WITH THW INSULATION (COLOR GREEN)

NOTE (SUPPLEMENTAL GROUND ROD):

THE COMBINED GROUND ROD RESISTANCE BETWEEN THE SERVICE AND N-36 PULLBOX WITH EXTENSION SHOULD BE LESS THAN 5 Ω . IF RESISTANCE IS GREATER THAN 5 Ω , A THIRD GROUND ROD MAY BE NECESSARY (SEE CITY STAFF FOR FURTHER DIRECTION).

LEGEND (SUPPLEMENTAL GROUND ROD)

1. $\phi 1"$ X 10'(L) GROUND ROD SHALL BE INSTALLED A MINIMUM OF 20' FROM SERVICE GROUND ROD. GROUND ROD TO BE PLACED ON STREET SIDE CORNER OF PULL BOX. ELECTRICAL CONNECTION SHALL BE EXOTHERMIC (CAD) WELDED TERMINATION. GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS TO THE SERVICE GROUND ROD AND CONTINUE TO THE SERVICE GROUND BUS.
2. THE SUPPLEMENTAL GROUND ROD SHALL BE LOCATED IN A N-36 PULLBOX WITH EXTENSION THAT HAS A HORIZONTAL SEPARATION OF 20' OR GREATER FROM THE SERVICE GROUND ROD.



DEPARTMENT OF
PUBLIC WORKS

CONTROLLER/SERVICE GROUNDING DIAGRAM

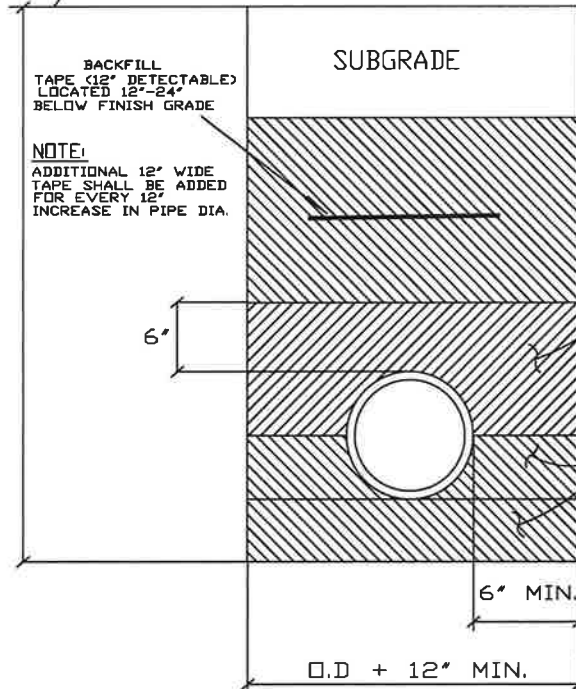
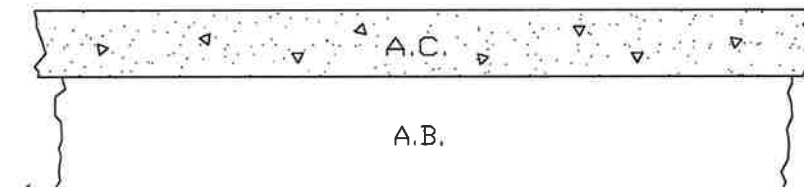
SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J PASTOR
APPROVED BY: J CERVANTES

TS-25

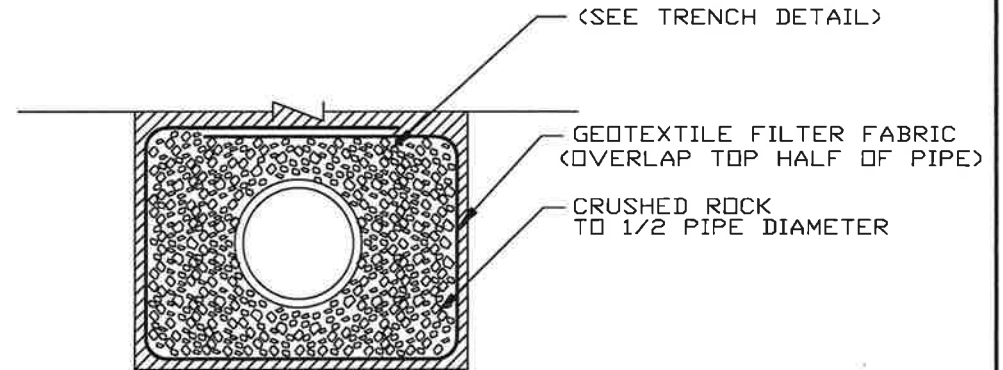

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PUBLIC WORKS DIRECTOR

TRENCH BACKFILL REQUIREMENTS:

1. PROPOSED STREETS- REFER TO DETAIL TB-1 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.
2. EXISTING STREETS- REFER TO DETAIL TB-1 AND TB-3 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.



NOTE: BACKFILL SHALL BE MECHANICALLY CONSOLIDATED OR SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE



SATURATED PIPE TRENCH

IMPORTED MATERIAL 100% PASSING 3/4" SIEVE MIN. SAND EQUIVALENT OF 50

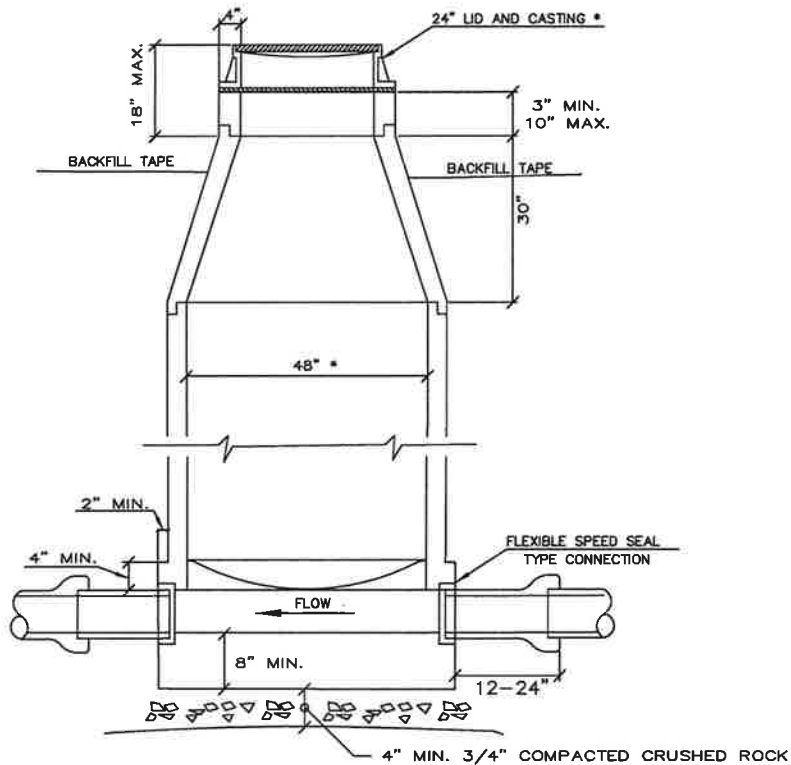
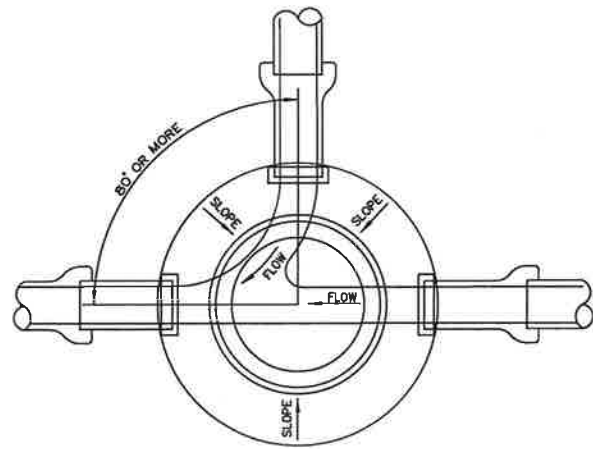
ALTERNATE BACKFILL ABOVE SPRING-LINE ONLY: NATIVE MATERIAL 90% RELATIVE COMPACTION

IMPORTED MATERIAL, LESS THAN 10% PASSING No.8 SIEVE; LESS THAN 50% PASSING 3/8" SIEVE, 100% PASSING 1/2" SIEVE FOR PIPE 12" OR SMALLER, 100% PASSING 3/4" SIEVE FOR PIPE OVER 12"

3" FOR UNDER 12" PIPE
4" FOR 12" OR LARGER PIPE
(ADD 4" TO THE EXCAVATION IN ROCKY OR UNYIELDING SOIL)

Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

	ENVIRONMENTAL UTILITIES DEPARTMENT
	SEWER MAIN TRENCH AND BACKFILL
SCALE: NONE REVISED: JANUARY 2016 DRAWN BY: R. VAN NESS APPROVED BY: RICHARD PLECKER	SS-1



NOTES

MANHOLE LIDS SHALL BE SEALED WITH AN APPROVED RUBBER GASKET.

JOINTS SHALL BE MORTARED INSIDE AND OUT.

UNUSED CHANNELS SHALL BE COMPLETELY FILLED WITH GROUT.

STUBS SHALL BE PLUGGED AND END MARKED ABOVE FINISHED GRADE WITH A REDWOOD 4 BY 4 POST PAINTED GREEN

IF AN ECCENTRIC CONE IS USED, PLACE SUCH THAT THE OPENING IS OVER THE UPSTREAM INVERT.

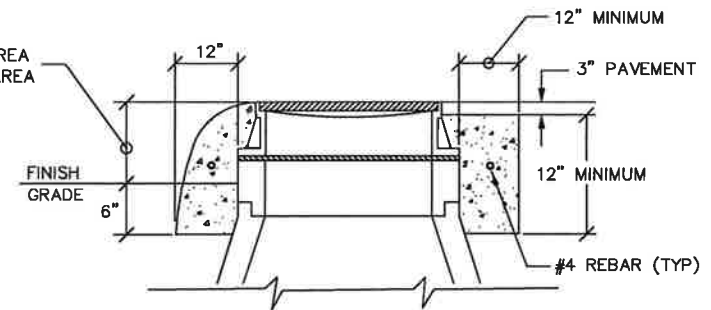
NO CAULDER OR REPAIR COUPLINGS SHALL BE USED ON NEW CONSTRUCTION

FLOW LINES SHALL HAVE A 1/10 DROP OR AS INDICATED ON PLANS

MANHOLES WITH DROPS SHALL BE EPOXY COATED. THE COATING SHALL BE APPLIED PER SEC. 91-10K OF THESE STANDARDS.

* 60" & 72" MANHOLES SHALL USE A 36" COMPOSITE LID AND FRAME,

6" IN LANDSCAPED AREA
12" IN UNIMPROVED AREA



CONCRETE COLLAR DETAIL

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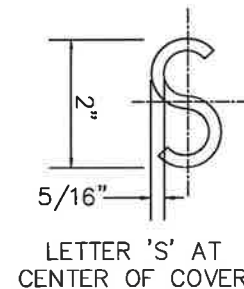
CITY OF
ROSEVILLE
CALIFORNIA

ENVIRONMENTAL UTILITIES
DEPARTMENT

SEWER MANHOLE STANDARD 48 INCH

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-2



Technical drawing of a cross-section of a 12-inch diameter manhole. The drawing shows a 12-inch diameter opening at the bottom, surrounded by a 34-inch wide base. The top of the manhole is covered by a 28 1/2-inch wide frame. The frame consists of a 1 1/8-inch thick top flange and a 1 1/8-inch thick side flange. A 1/2-inch rubber plug (cast iron only) is shown in the center of the top flange. A 0-inch ring groove and gasket is located between the top and side flanges. Dimensions are given in inches and fractions of an inch.

NOTES: SEE SECTION 91-16.E.3 FOR APPROVED LIST OF SEWER MANHOLE FRAME AND COVER

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ENVIRONMENTAL UTILITIES
DEPARTMENT

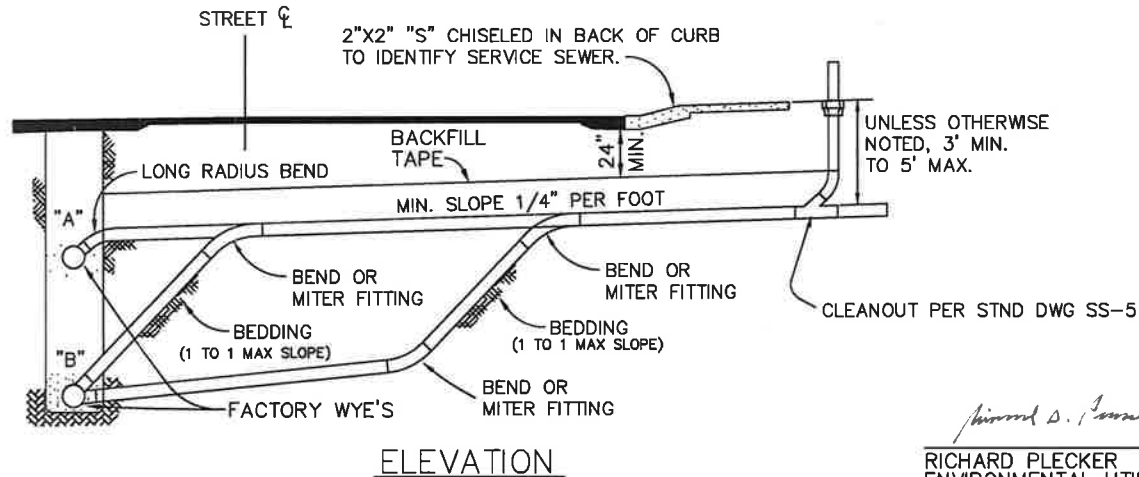
STANDARD SEWER MANHOLE FRAME AND COVER

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

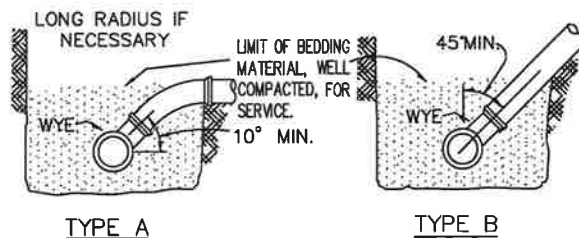
SS-3

GENERAL NOTES:

1. ALL SERVICE LINES SHALL BE 4" FOR RESIDENTIAL AND 6" FOR COMMERCIAL UNLESS OTHERWISE NOTED.
2. SERVICES SHALL HAVE SAME BEDDING AND BACKFILL AS LATERAL SEWER.
3. CONTRACTOR SHALL USE THE MOST APPROPRIATE TYPE CONNECTION (A OR B) FOR THE PARTICULAR SITUATION ENCOUNTERED.
4. SERVICE SEWER SHALL HAVE MINIMUM 3'-0" COVER AT PROPERTY LINE WHENEVER LATERAL DEPTH AND SERVICE SEWER SLOPE OF 1/4" PER FOOT (MINIMUM) PERMIT. SEE NOTE 10.
5. WHEN THE LATERAL SEWER DEPTH IS SUCH THAT MINIMUM COVER AT PROPERTY LINE CANNOT BE MET, THE MINIMUM SLOPE OF 1/4" PER FOOT SHALL GOVERN THE COVER.
6. MIN. SPECIFIED COVER AT THE PROPERTY LINE SHALL BE MEASURED FROM EXISTING GROUND SURFACE OR EDGE OF ADJACENT ROADWAY, WHICHEVER IS LOWER.
7. A SPECIFIC ELEVATION AT THE PROPERTY LINE, WHEN SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER, SHALL GOVERN.
8. MITER FITTING SHALL BE MAX. 45°.
9. MINIMUM DEPTH OF COVER SHALL BE INCREASED TO 4'-6" WHERE A WATER MAIN IS TO BE INSTALLED AT BACK OF SIDEWALK AS PART OF THE SUBDIVISION IMPROVEMENTS. IN SUCH CASES, THE SERVICE SHALL BE EXTENDED TO A MINIMUM OF 7' BACK OF SIDEWALK; CLEANOUT TO GRADE SHALL REMAIN WITHIN 3' OF BACK OF SIDEWALK.
10. SEWER SERVICES ORIGINATING FROM SEWER MAINS 14 FT AND GREATER IN DEPTH SHALL HAVE THE CROTCH OF THE VCP "WYE" FITTING FILLED WITH CONCRETE.
11. UNDERGROUND CONTRACTOR SHALL END SEWER SERVICE 2-3' UPSTREAM OF SEWER CLEANOUT. SEE STANDARD DETAIL SS-5.



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CONNECTION DETAILS

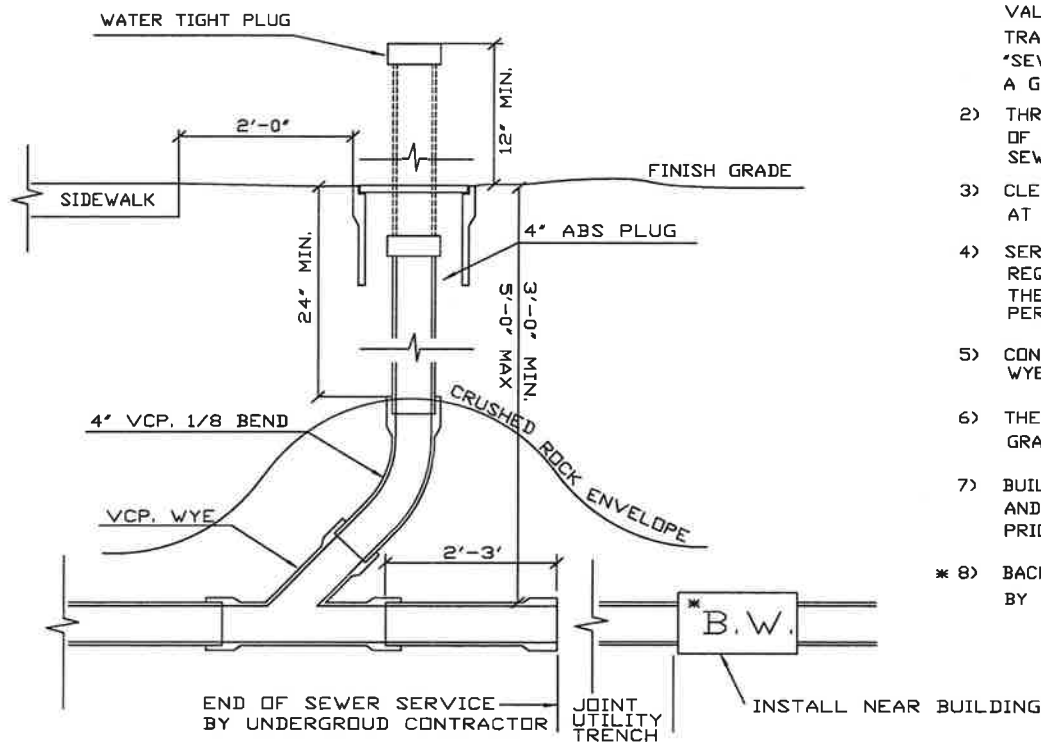
CITY OF
ROSEVILLE
 CALIFORNIA

ENVIRONMENTAL UTILITIES
 DEPARTMENT

SEWER SERVICE

SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

SS-4



NOTES:

- 1) INSTALL ROUND NON-TRAFFIC TYPE CONCRETE VALVE BOX & COVER MARKED "SEWER" IN A NON - TRAFFIC AREA . INSTALL METAL LID MARKED "SEWER" IN AREAS WITH POTENTIAL TRAFFIC. A G5 BOX SHALL BE INSTALLED IN TRAFFIC AREAS.
- 2) THREE FOOT VCP STUB SHALL BE INSTALLED UPSTREAM OF CLEANOUT. 2' VCP SHALL BE INSTALLED WHERE SEWER SERVICE ENTERS OVER JOINT UTILITY TRENCH
- 3) CLEANOUT BOX TO BE FREE OF ALL DIRT AND READY AT TIME OF PRE-FINAL INSPECTION.
- 4) SERVICES OVER 100' LONG AND COMMERCIAL SERVICES REQUIRE A MIN. 6' CLEANOUT WITH 6' FITTINGS. THE CLEANOUT BOX SHALL BE CONSTRUCTED PER W-16.
- 5) CONNECTION TO MAIN SHALL BE WITH A FACTORY WYE OR AT A MANHOLE.
- 6) THE CLEANOUT RISER SHALL BE INSTALLED 12" ABOVE GRADE PRIOR TO BUILDING CONSTRUCTION.
- 7) BUILDING CONTRACTOR SHALL SET BOX TO FINISH GRADE AND INSTALL AN ABS PLUG SET 6' BELOW THE SURFACE PRIOR TO BUILDING PRE-FINAL.
- * 8) BACKWATER VALVE IF REQUIRED SHALL BE INSTALLED BY THE BUILDING CONTRACTOR

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 ENVIRONMENTAL UTILITIES DIRECTOR

- 9) 2' VCP SHALL BE INSTALLED WHERE SEWER SERVICE ENTERS OVER JOINT UTILITY TRENCH.
- 10) TREES ARE TO BE PLACED 7 1/2' FROM CLEAN OUT.
- 11) INSTALL A CITY CLEANOUT AT A MINIMUM 5' FROM COMMERCIAL BUILDINGS.

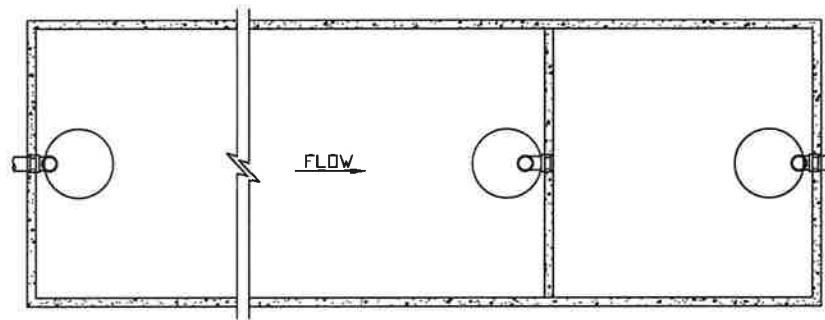


ENVIRONMENTAL UTILITIES
 DEPARTMENT

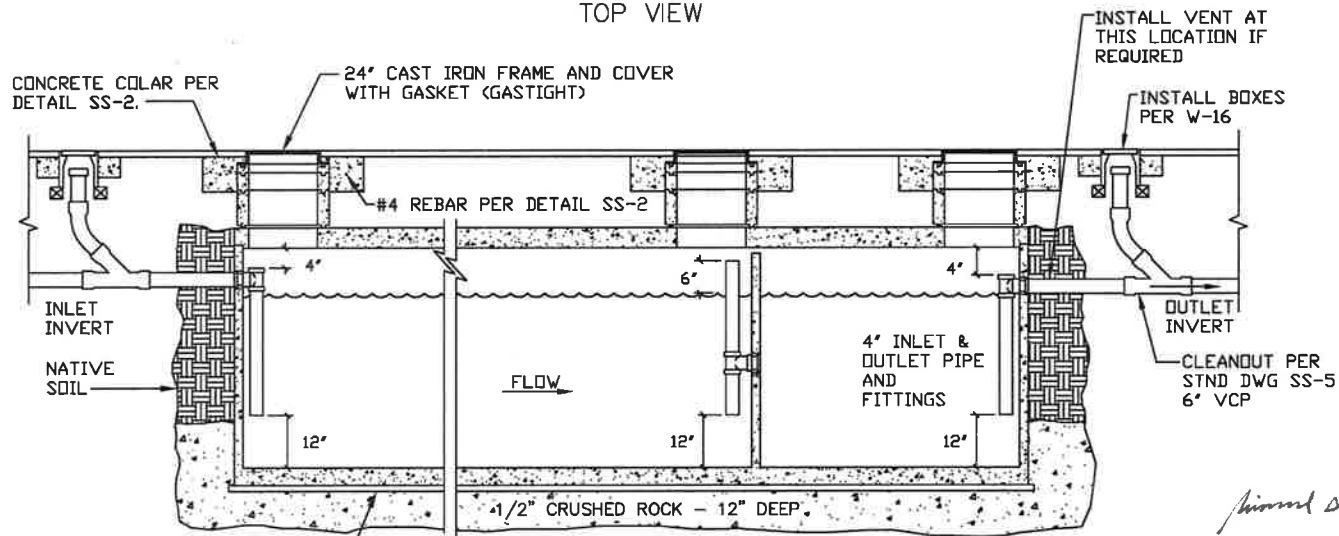
SEWER SERVICE CLEANOUT

SCALE: NONE
 REVISED: JANUARY 2016
 DRAWN BY: R. VAN NESS
 APPROVED BY: RICHARD PLECKER

SS-5



TOP VIEW



SIDE VIEW (CUT AWAY)

MIN. BOX DESIGN LOAD: H-20 TRAFFIC

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ENVIRONMENTAL UTILITIES DIRECTOR

*NOTE: THE PRECAST CONCRETE UNITS SHALL BE PLACED ON LEVEL UNDISTURBED SOIL, W/1/2" CRUSHED ROCK 12" DEEP. TWO 2x6 REDWOOD GRADE BOARDS SHALL BE PLACED BELOW THE TANK SIDE WALLS ALONG THE LONG DIMENSION PER THE MANUFACTURERS GUIDELINES.

SIZING SHALL BE BASED ON UPC APPENDIX H

*NOTE: PRIOR TO BACKFILL, INTERCEPTOR SHALL BE FILLED WITH WATER AND HELD FOR 24HRS WITH NO VISIBLE LEAKAGE.

*NOTE: IF SIZE IS <1000 GAL, INTERCEPTOR DOES NOT HAVE MIDDLE MANHOLE



ENVIRONMENTAL UTILITIES
DEPARTMENT

GREASE INTERECEPTOR (TYP.)

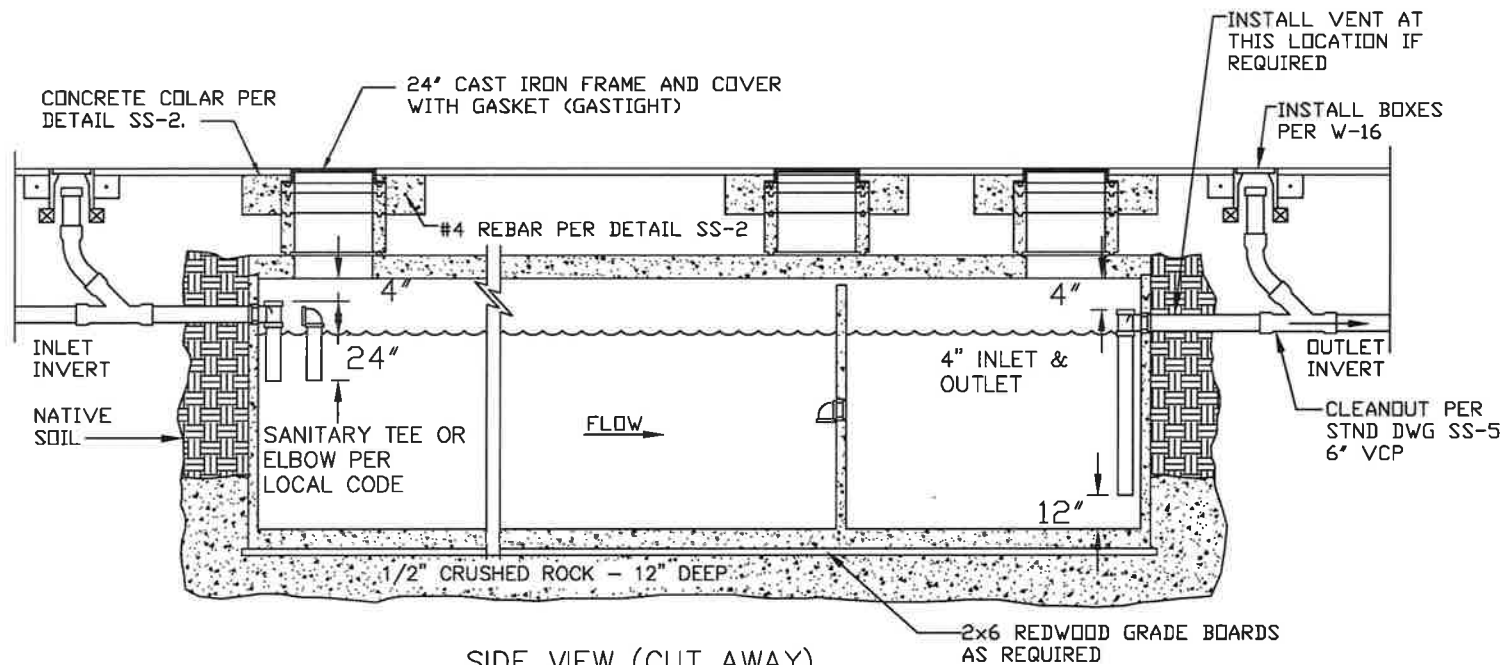
SCALE: NONE

REVISED: JANUARY 2016

DRAWN BY: R. VAN NESS

APPROVED BY: RICHARD PLECKER

SS-6



SIDE VIEW (CUT AWAY)

MIN. BOX DESIGN LOAD: H-20 TRAFFIC

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

*NOTE: THE PRECAST CONCRETE UNITS SHALL BE PLACED ON LEVEL UNDISTURBED SOIL, W/1/2" CRUSHED ROCK 12" DEEP. TWO 2x6 REDWOOD GRADE BOARDS SHALL BE PLACED BELOW THE TANK SIDE WALLS ALONG THE LONG DIMENSION PER THR MANUFACTURERS GUIDELINES.

SIZING SHALL BE BASED ON UPC APPENDIX H & K.

*NOTE: PRIOR TO BACKFILL, INTERCEPTOR SHALL BE FILLED WITH WATER AND HELD FOR 24HRS WITH NO VISIBLE LEAKAGE.

*NOTE: IF SIZE IS <1000 GAL, INTERCEPTOR DOES NOT HAVE MIDDLE MANHOLE



ENVIRONMENTAL UTILITIES
DEPARTMENT

SAND/OIL INTERECEPTOR

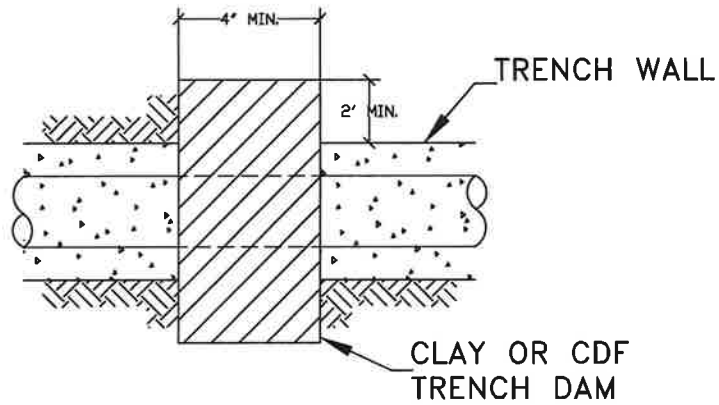
SCALE: NONE

REVISED: JANUARY 2016

DRAWN BY: R. VAN NESS

APPROVED BY: RICHARD PLECKER

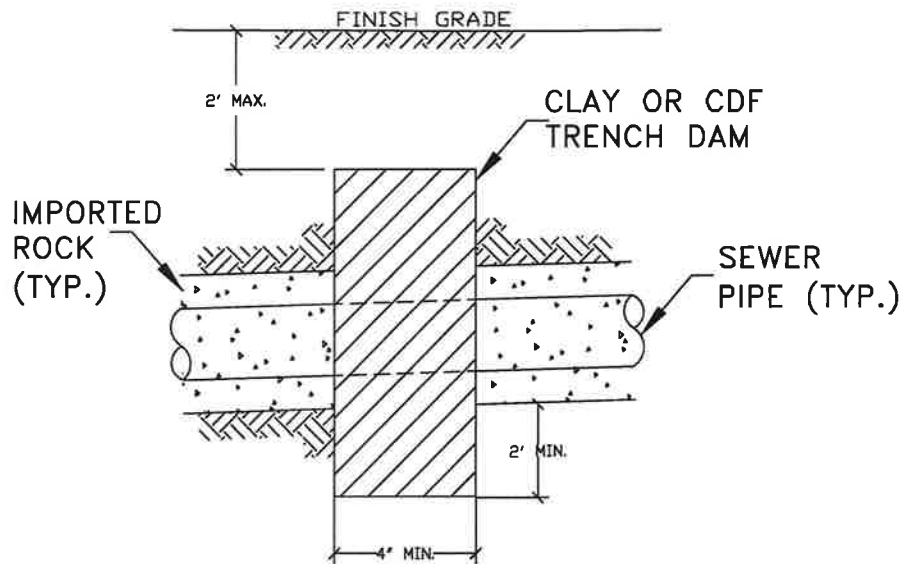
SS-7



PLAN VIEW

NOTE:

TRENCH DAM SHALL BE CONSTRUCTED OF
CLEAN CLAY MATERIAL OR CONTROLLED DENSITY FILL.



PROFILE VIEW

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ENVIRONMENTAL UTILITIES DIRECTOR

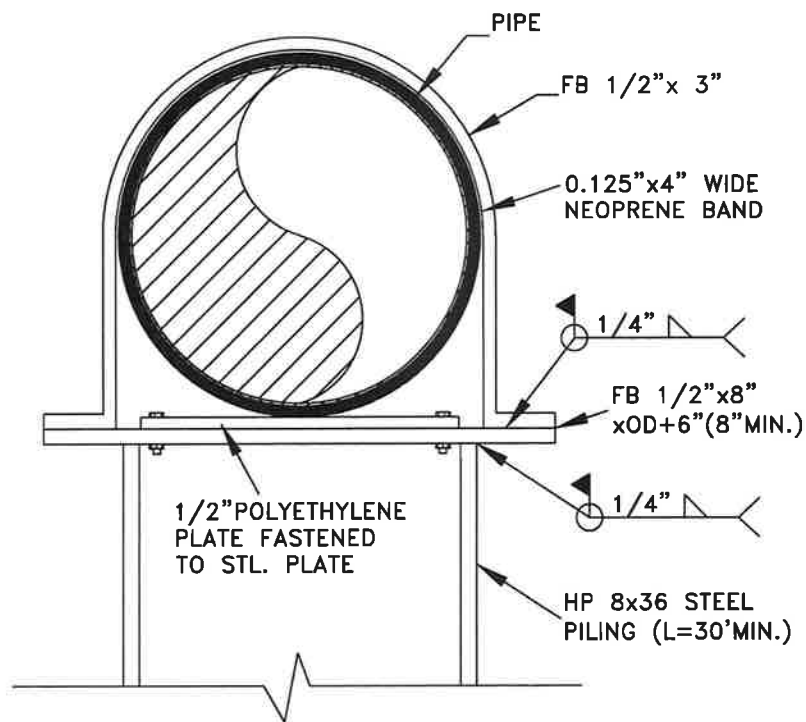


ENVIRONMENTAL UTILITIES
DEPARTMENT

TRENCH DAM

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-8



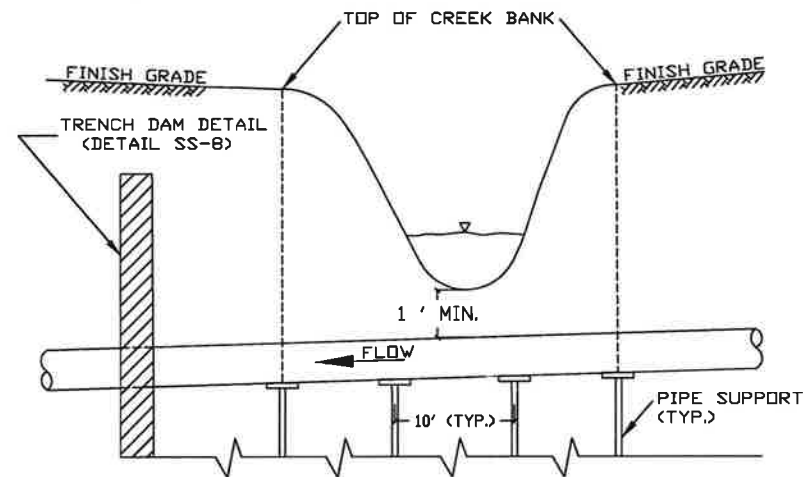
PIPE SUPPORT DETAIL

MTRL. NOTES:

1. STRUCTURAL STL. SHALL BE A36 (Fy=36ksi)
2. WELDING RODS SHALL BE E70 (Fy=70ksi)

DESIGN NOTES:

1. PILES SHALL BE 10' ON CENTER BEGINNING AND ENDING AT CREEK BOTH SIDES 'TOP OF BANK' AND AS NOTED ON THE PROJECT PLANS.



CREEK CROSSING

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RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

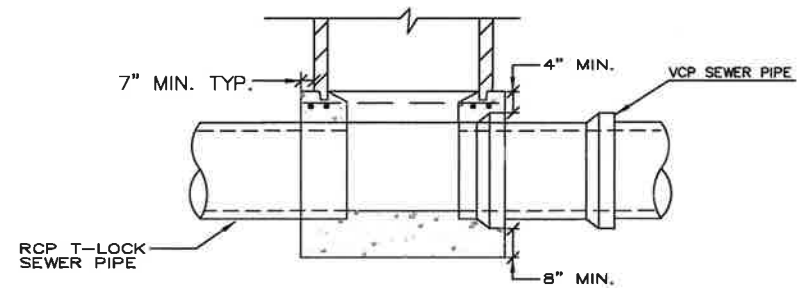
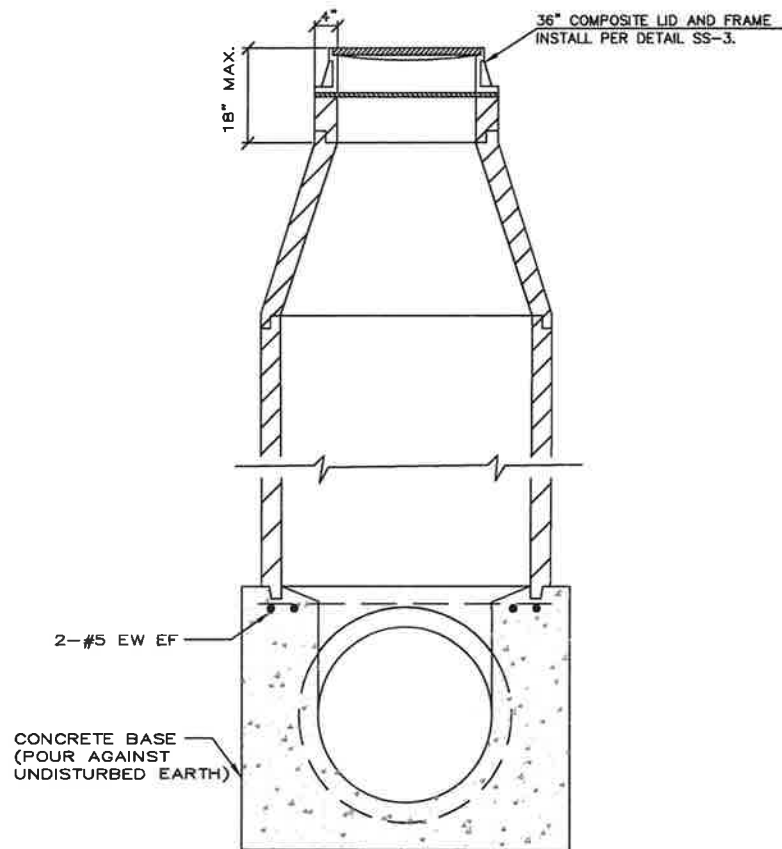
CREEK CROSSING SUPPORT

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

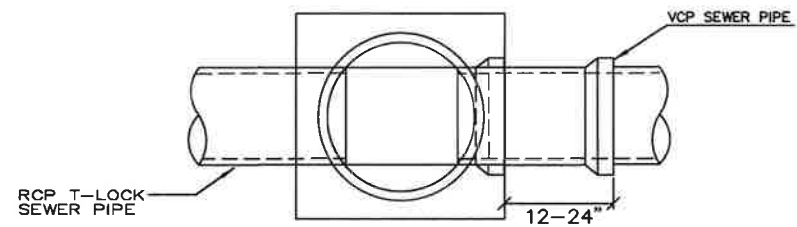
SS-9

NOTES

1. MANHOLE LID SHALL BE SEALED WITH AN APPROVED RUBBER GASKET.
2. JOINTS SHALL BE MORTARED INSIDE AND OUT.
3. APPLY EPOXY COATING TO INTERIOR SURFACES OF MANHOLE IN ACCORDANCE WITH CITY STANDARDS 91-10 K.
4. PROVIDE SPARK TEST OVER ENTIRE PROTECTIVE COATINGS AFTER INSTALLATION.
5. SEE STANDARD DETAIL SS-2 FOR ADDITIONAL REQUIREMENTS.



PROFILE



PLAN

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

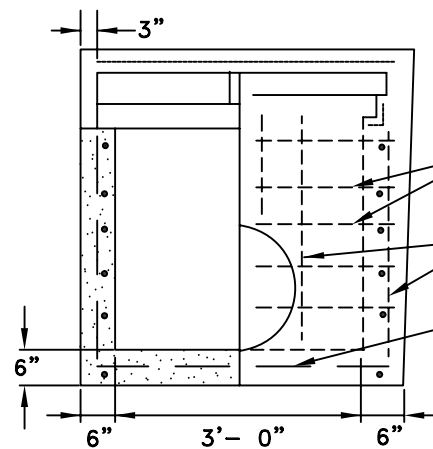
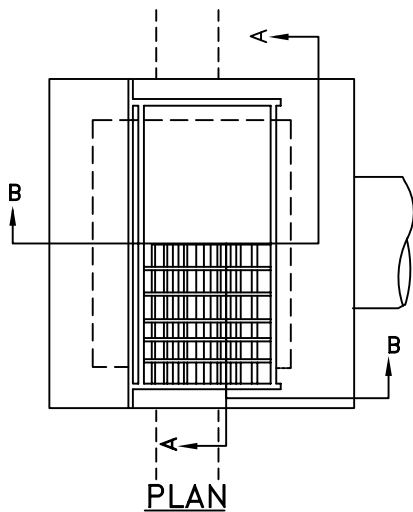


ENVIRONMENTAL UTILITIES
DEPARTMENT

60"+ SEWER TRUNK MAIN
MANHOLE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

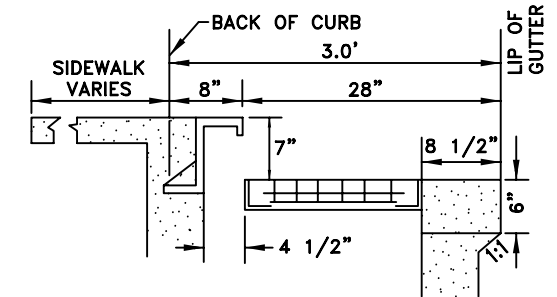
SS-10



REINFORCEMENT REQUIRED
WHEN E=48" OR MORE.
NO.4 BARS @ 6"CENTRS.
(HORZ) TYP 4 SIDES
SEE NOTE 6.

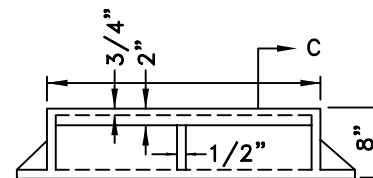
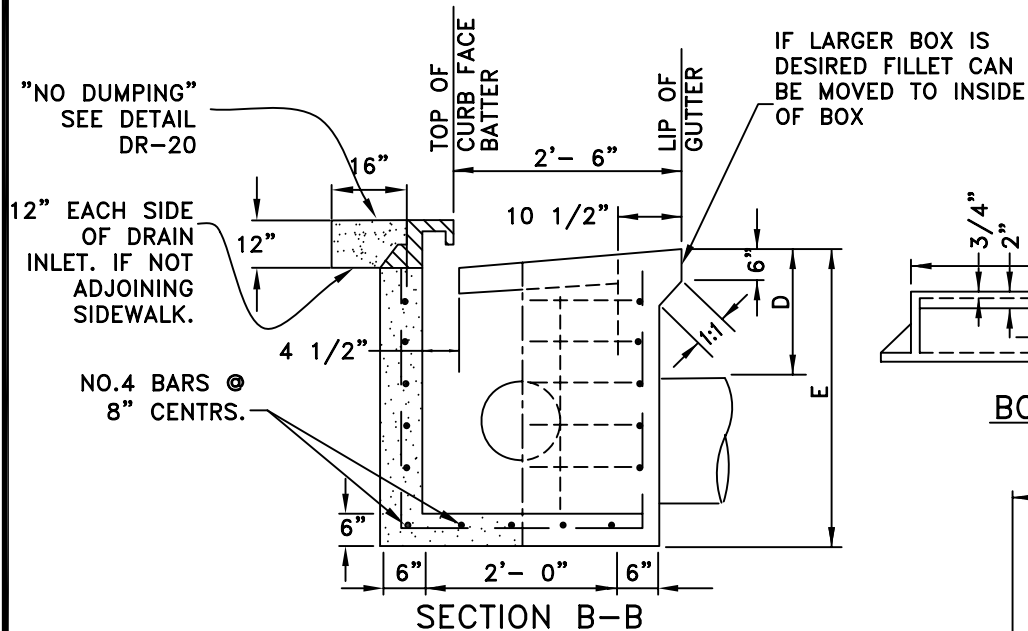
NO.4 BARS @ 12"CENTRS.
(VERT) TYP 4 SIDES

NO.4 BARS @
8"CENTRS.

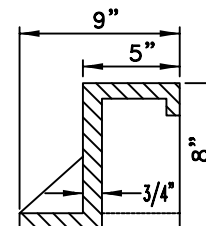


NOTES:

1. DIMENSIONS D AND E MAY VARY WITH EACH LOCATION.
2. SEE STANDARD DETAIL DR-9 FOR INLET GRATE.
3. THE INSIDE SURFACE OF FRONT AND BACK WALLS OF THE CATCH BASIN SHALL NOT DEVIATE MORE THEN 2" IN ALIGNMENT FROM INSIDE SURFACE OF THE WALLS OF THE TOP INLET PORTION.
4. SLOPE FLOOR 2" TO OUTLET.
5. CONCRETE SHALL BE "MINOR CONCRETE" AS DESCRIBED IN 71-5B OF THESE STANDARDS.
6. 6X6, 4 GAUGE WELDED WIRE FABRIC MAY BE USED IN LIEU OF #4 REBAR.
7. ALL REINFORCEMENT BAR SHALL BE GRADE 60.



SECTION C-C



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

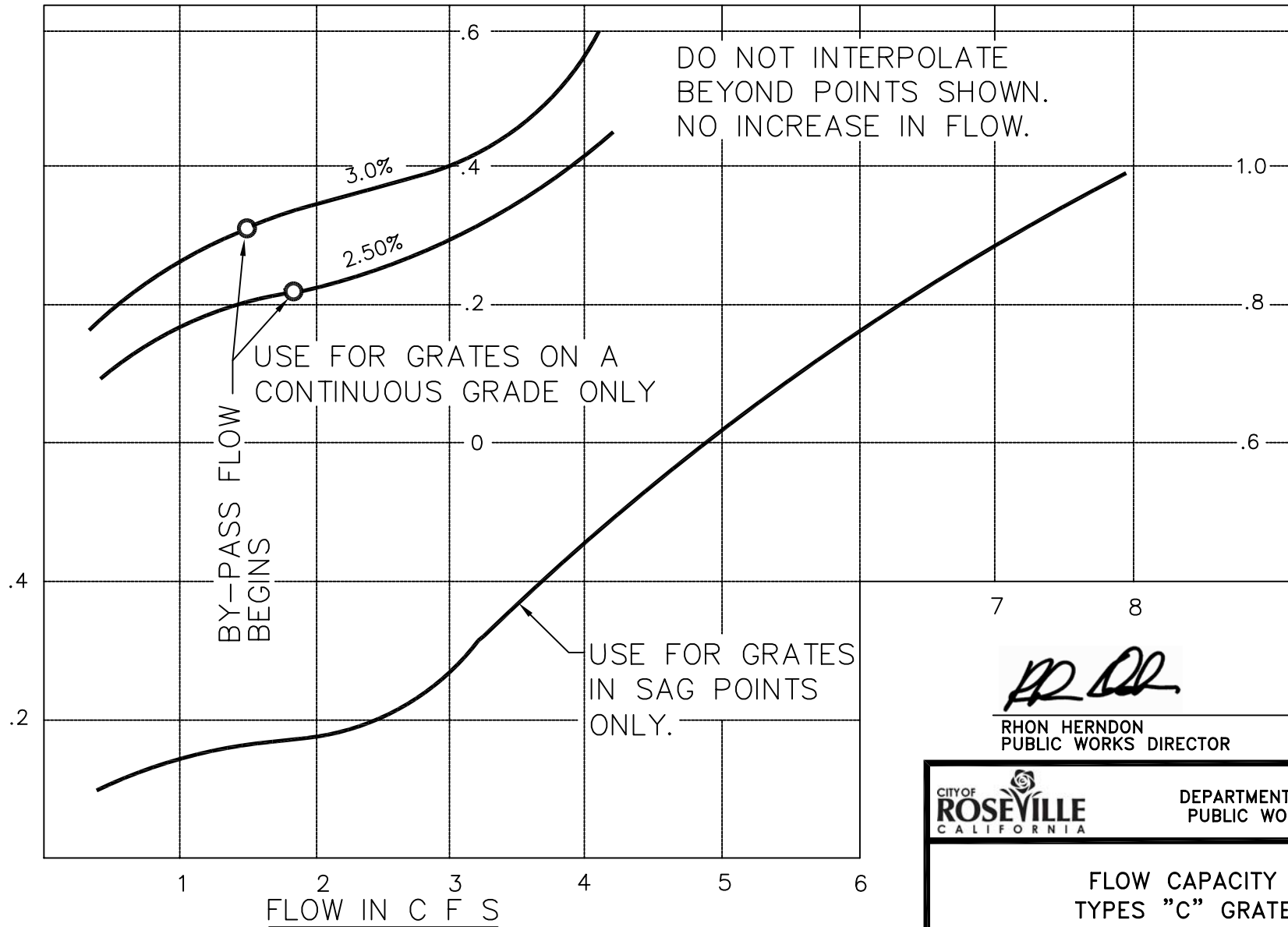
DROP INLET
TYPE "C"

FRAME, HOOD AND GRATE (OR APPROVED EQUAL APPLIES)
D&L SUPPLY: #I-3542 (FRAME), #I-3543 (GRATE), #I3541 (HOOD)
SOUTH BAY FOUNDRY: #1904 (FRAME, GRATE, HOOD)

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-1

DEPTH IN FEET AT GUTTER FLOWLINE (SUMP)



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

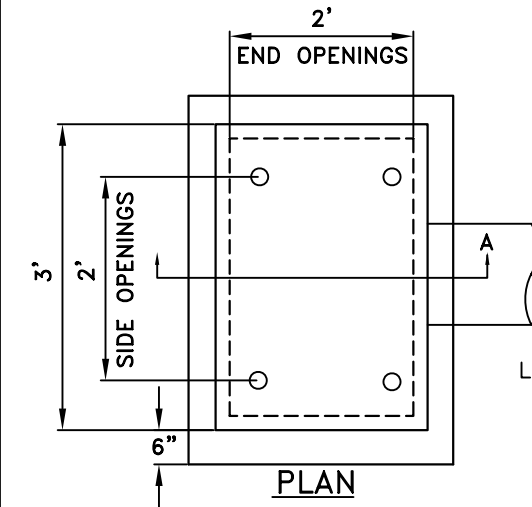


DEPARTMENT OF
PUBLIC WORKS

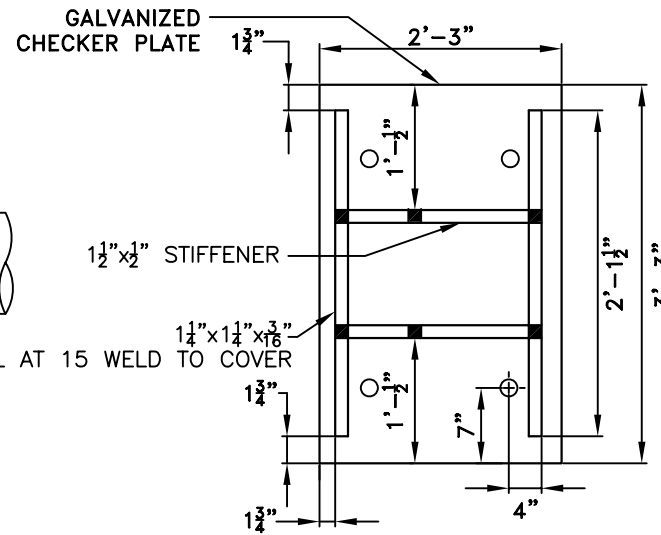
FLOW CAPACITY
TYPES "C" GRATE

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

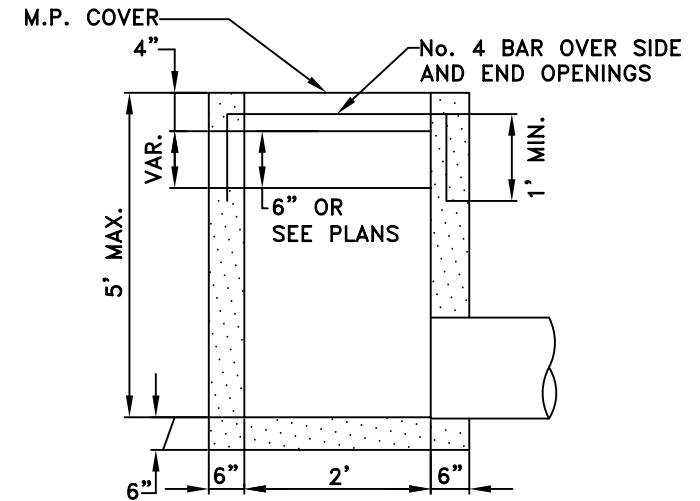
DR-2



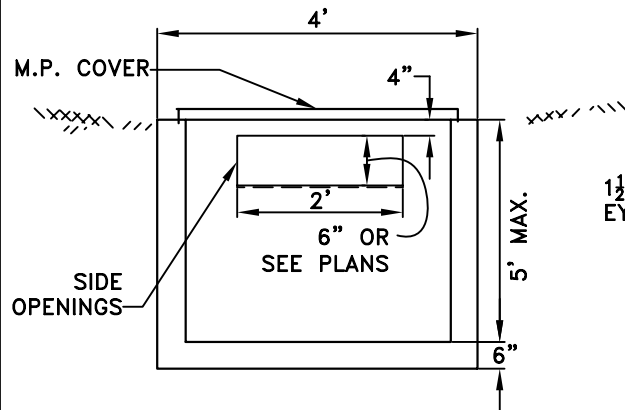
PLAN



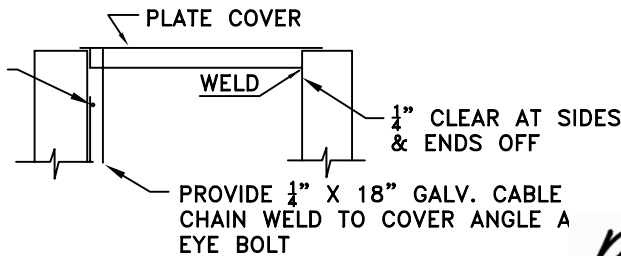
(UNDERSIDE)
PLAN



SECTION A-A



1 1/2" X 6" GALV.
EYE BOLT



SECTION
METAL PLATE COVER

NOTES:

1. METAL PLATE COVER TO BE GALVANIZED.
2. THIS STRUCTURE TO BE USED ONLY TO PICKUP ON SITE DRAINAGE ON PRIVATE PROPERTY UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR.
3. DRAIN INLETS NOT WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 6" THICK CONCRETE.
4. THE INSIDE SURFACE OF FRONT AND BACK WALLS OF THE CATCH BASIN SHALL NOT DEVIATE MORE THEN 2" OF VERTICAL ALIGNMENT.
5. SLOPE FLOOR 2" TO OUTLET.
6. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
7. PROVIDE END OR SIDE OPENINGS AS SHOWN ELSEWHERE ON PLANS OR CROSS SECTIONS.
8. TOP OF ALL WALLS SHALL BE FINISHED TO A LEVEL PAN TO PROVIDE EVEN BEARING FOR PLATE COVER.
9. SEE DETAIL DR-1 FOR REINFORCEMENT REQUIREMENTS.

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DEPARTMENT OF
PUBLIC WORKS

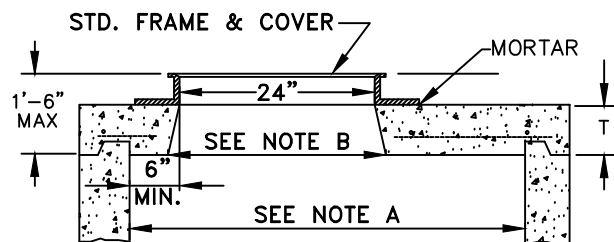
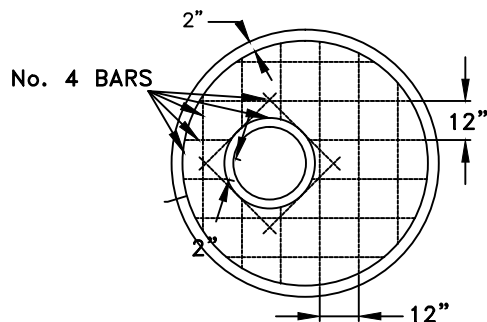
DROP INLET
TYPE "F"

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-3

A	B	T MIN.
48"	18"	6"
60"	30"	8"
72"	42"	8"
84"	54"	12"
96"	12" (FLAT)	12"

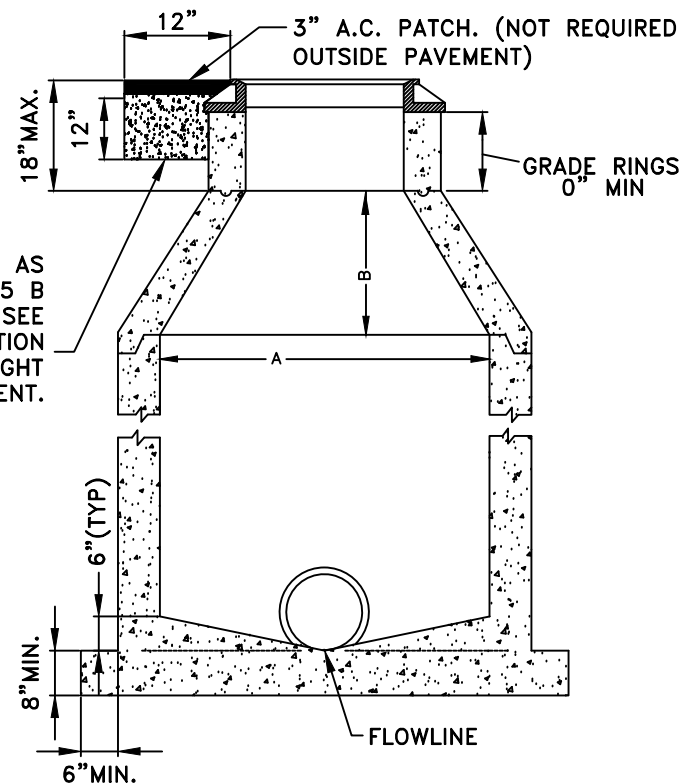
RISER SECTIONS. CONES, AND ADJUSTING RINGS SHALL CONFORM TO ASTM DESIGNATION C-478



- A. A FLAT TOP SLAB SHALL BE USED WHEN A SHALLOW LINE DOES NOT PERMIT USE OF A TAPERED DOME.
- B. IF THE BOTTOM, INSIDE DIAMETER OF THE FLAT TOP OPENING IS 28 INCHES OR MORE, THE THICKNESS OF THE SLAB MAY BE DISREGARDED IN COMPUTING THE MAXIMUM 18 INCH HEIGHT OF THE OPENING.

NOTES:

1. ECCENTRIC CONES SHALL BE USED WHERE SPECIFIED ON THE PLANS.
2. JOINT MAY BE EITHER KEYED OR TONGUE AND GROOVE.
3. SEE SECTION 101-8 (MATERIALS) FOR JOINT COMPOUND. (ALL MANHOLE JOINTS)
4. TOP OF FRAME SHALL BE 1/8 INCH BELOW ADJACENT PAVEMENT.
5. 0.20 FOOT MINIMUM FALL THROUGH MANHOLE.
6. O.D. OF PIPE SHALL NOT EXCEED I.D. OF ITS MANHOLE BARREL.
7. WHERE SHORT 24" FRAMES ARE USED, TO ACHIEVE FULL 3 INCH AC PATCH
SLOPE CONCRETE FROM BASE OF FRAME TO 3 INCHES BELOW FINISH GRADE.



MARC STOUT
CITY ENGINEER

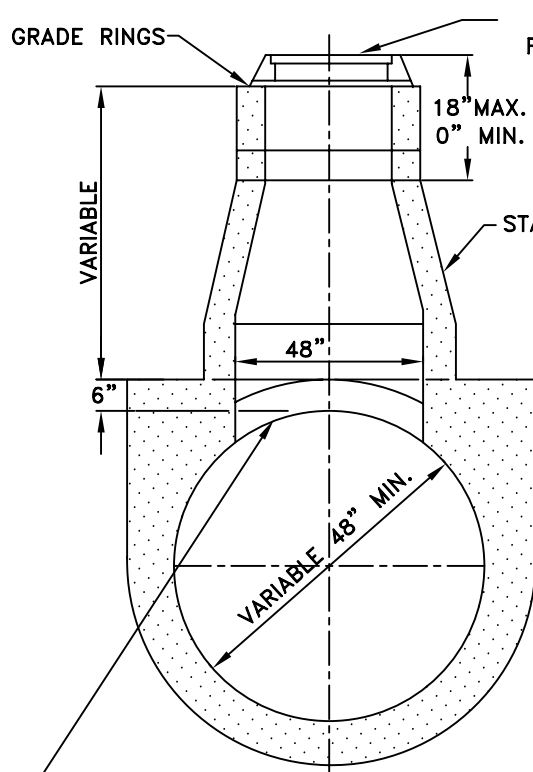


DEVELOPMENT SERVICES
DEPARTMENT

STANDARD PRECAST MANHOLE (DRAINAGE)

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

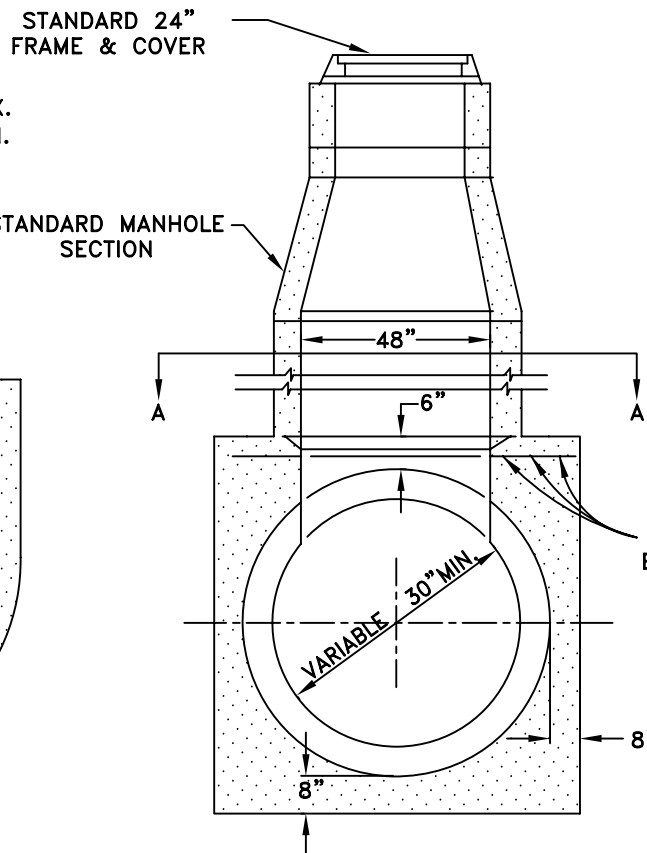
DR-4



TYPE A
CAST-IN-PLACE PIPE ONLY

NOTE:
REMOVE CONCRETE IN MANHOLE OPENING
AND CONSTRUCTION RISER BASE WHILE
CONCRETE IS STILL FRESH

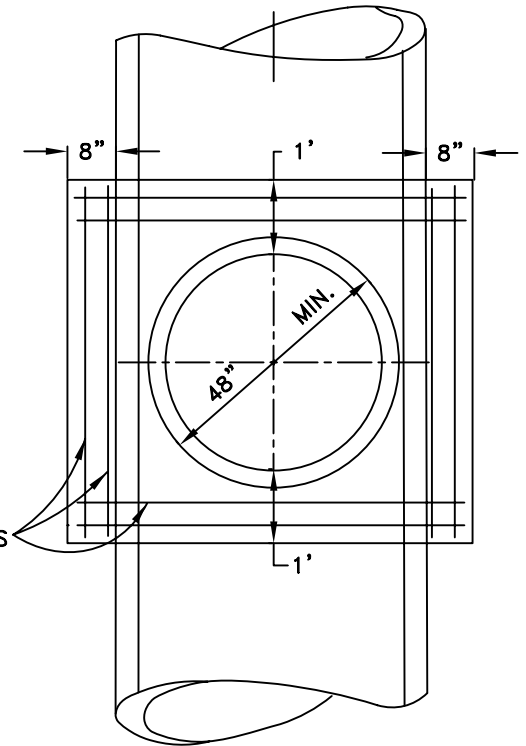
PLACE RISER SECTION AFTER CONCRETE
HAS SET



TYPE B

1. ALL PIPE OTHER THAN
CAST-IN-PLACE PIPE
2. CAST-IN-PLACE PIPE
LESS THAN 48" DIA.

2-#5 BARS
EACH WAY



SECTION A-A

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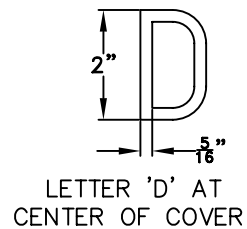


DEPARTMENT OF
PUBLIC WORKS

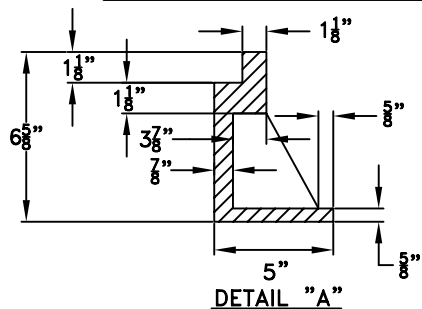
TYPE A & B
SADDLE MANHOLE

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

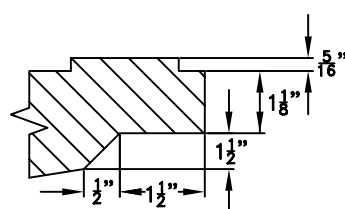
DR-5



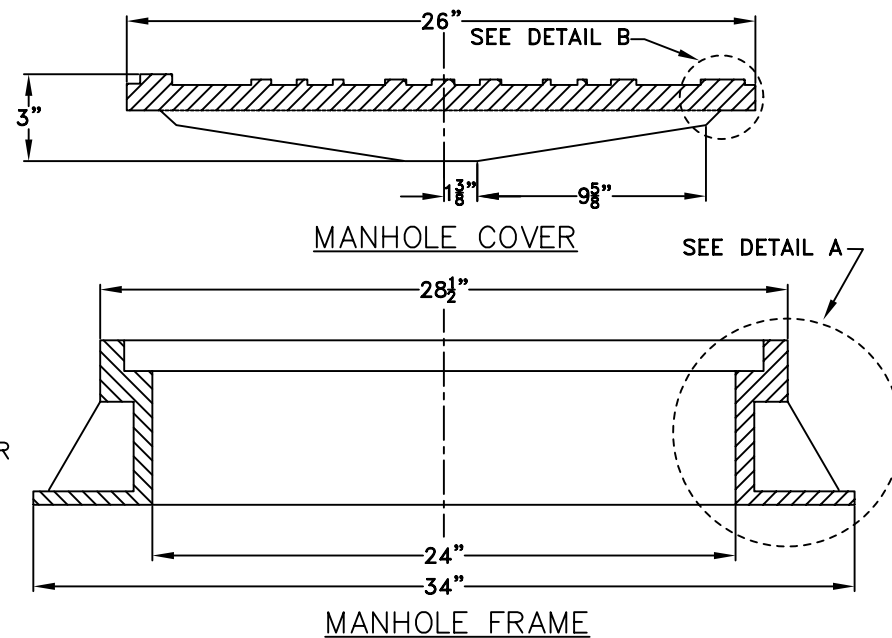
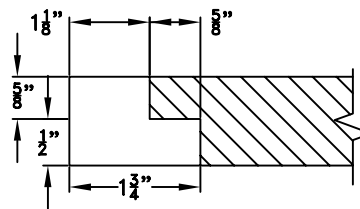
HALF PLAN OF HEAD AND COVER



DETAIL "B"



DETAIL "C"
SECTION THROUGH
CENTER OF PICK HOLE



1. REMOVE CONCRETE IN MANHOLE OPENING AND CONSTRUCTION RISER BASE WHILE CONCRETE IS STILL FRESH
2. PLACE RISER SECTION AFTER CONCRETE HAS SET.
3. A SHORT FRAME REQUIRES APPROVAL OF THE PUBLIC WORKS INSPECTOR.
4. ALL MANHOLE COVERS ARE TO HAVE A ANTI SKID PATTERN
5. SEE SECTION 101-8 MATERIALS OF THE THESE CONSTRUCTION STANDARDS (DR 9 of 11) FOR APPROVED FRAME AND COVERS.

PR DR

RHON HERNDON
PUBLIC WORKS DIRECTOR

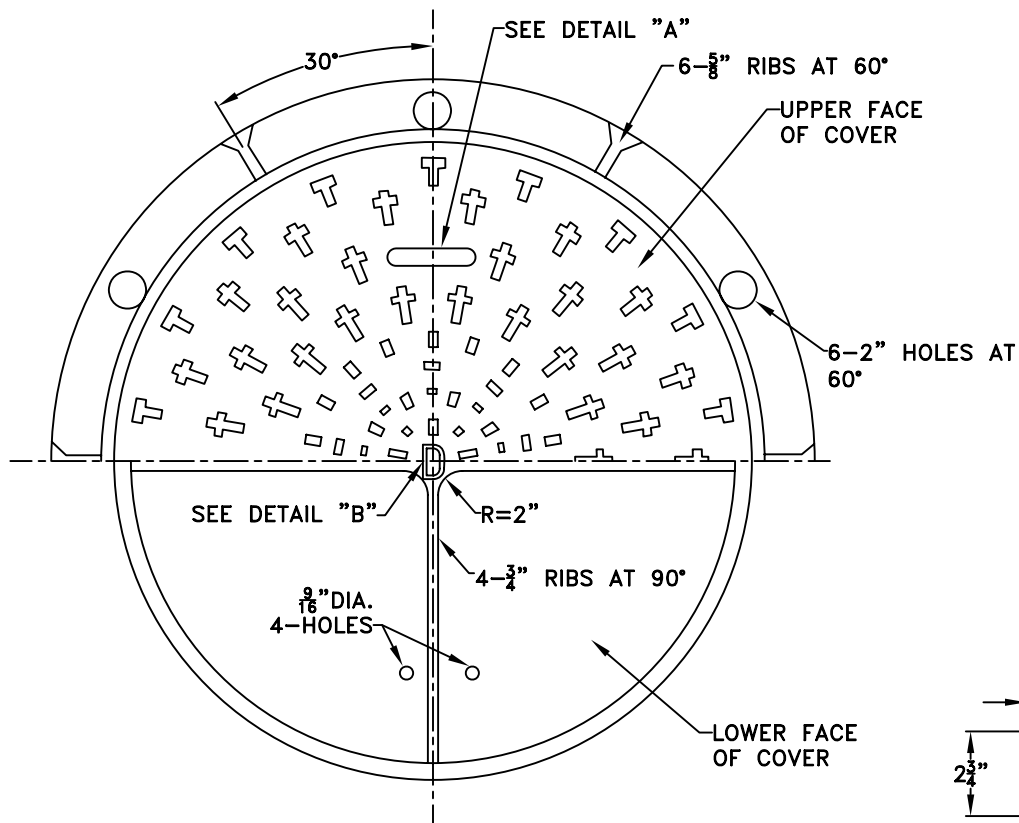


DEPARTMENT OF
PUBLIC WORKS

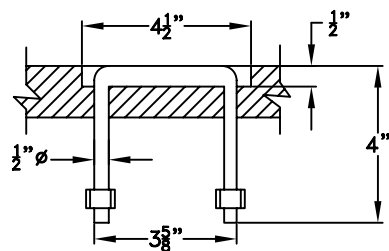
STANDARD DRAINAGE MANHOLE FRAME AND COVER

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

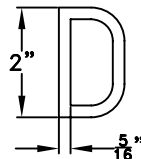
DR-6



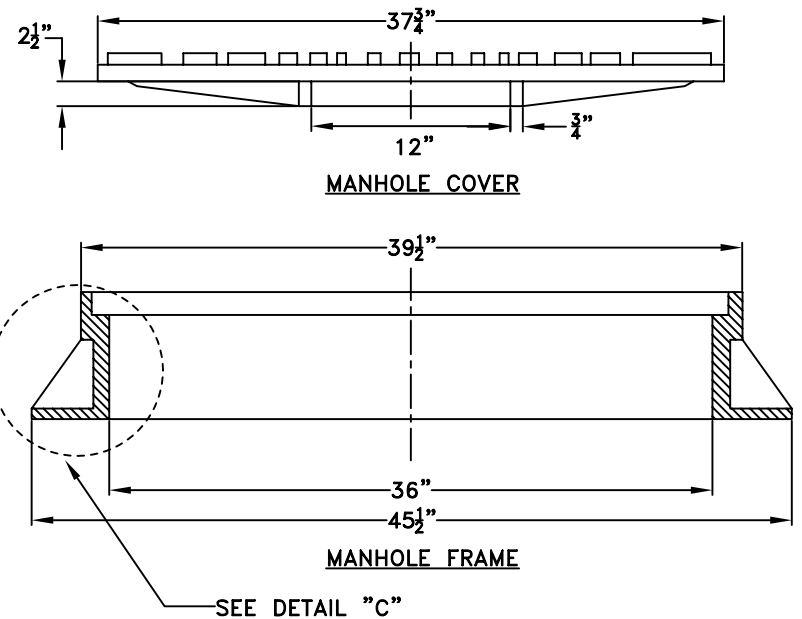
HALF PLAN OF MANHOLE COVER AND FRAME



DETAIL "A" HANDLE



DETAIL "B"
LETTER 'D' AT CENTER OF
COVER



NOTE:

FRAME WT. APPROX. 300 LBS.
COVER WT. APPROX. 375 LBS.

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DEPARTMENT OF
PUBLIC WORKS

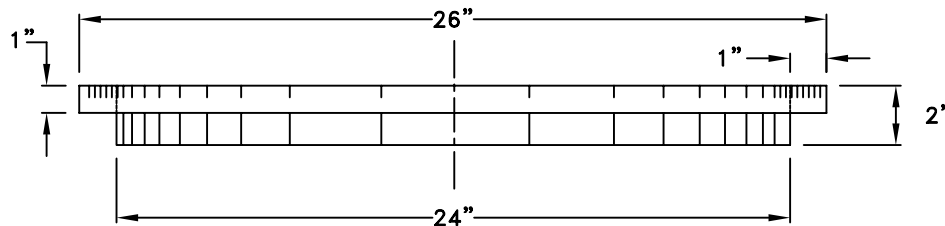
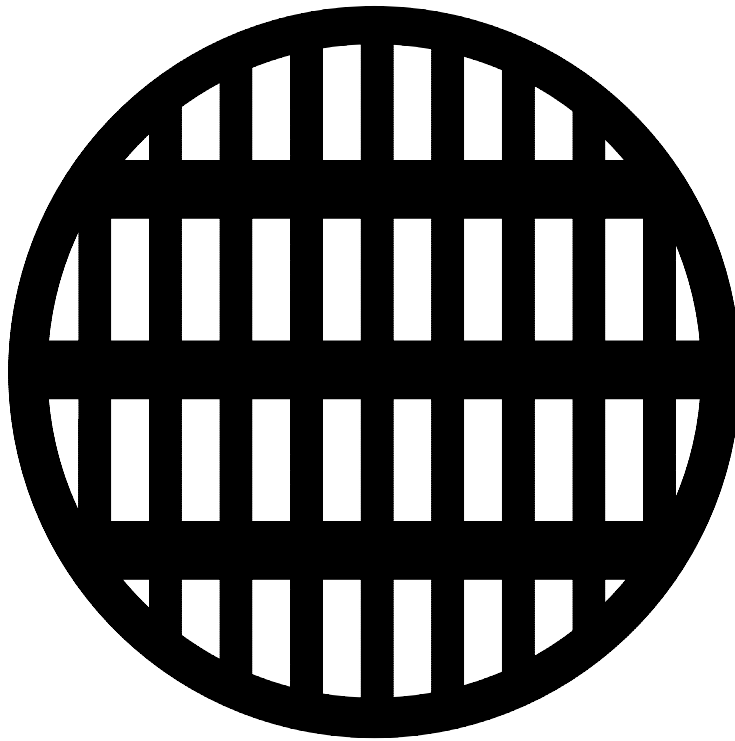
STANDARD 36" MANHOLE
FRAME AND COVER

NOTES:

1. ALL MANHOLE COVERS ARE TO HAVE A ANTI SKID PATTERN
2. SEE SECTION 101-8 MATERIALS OF THE THESE CONSTRUCTION STANDARDS (DR 9 of 11) FOR APPROVED FRAME AND COVERS.

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-7



NOTES:

1. DRAIN INLET AND NON DRAIN INLET FRAMES ARE IDENTICAL.
2. A SHORT FRAME REQUIRES APPROVAL OF THE PUBLIC WORKS INSPECTOR

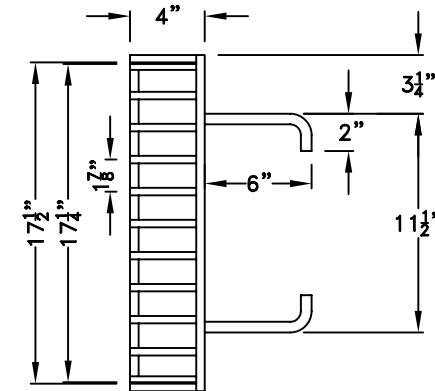
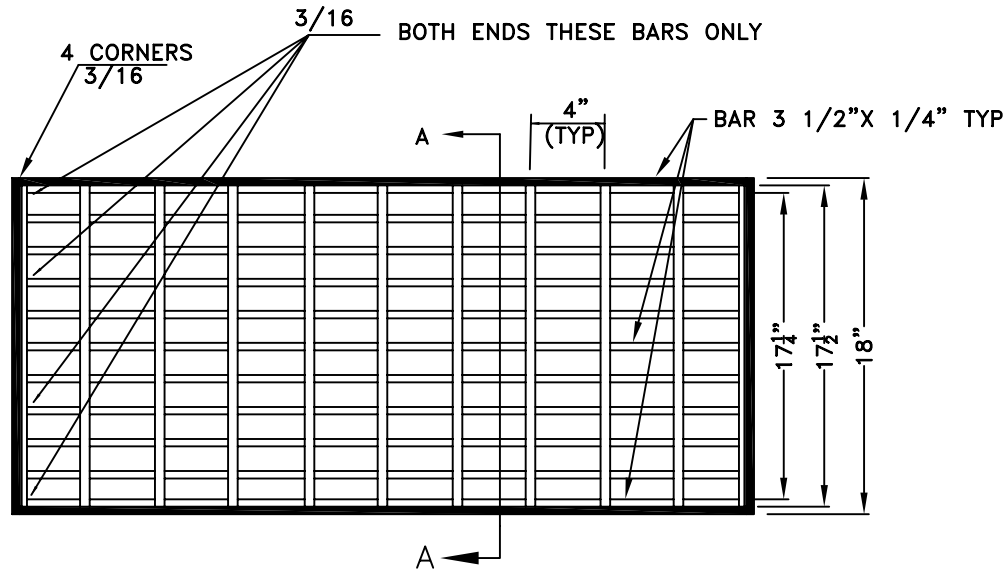
DRAIN INLET FRAME AND COVER ASSEMBLIES
(OR APPROVED EQUAL APPLIES)

D&L SUPPLY: #C-2660 (6 5/8 INCH HIGH STANDARD CASTING), #C-2661 (5 INCH), #C-2662 (3 INCH)
SOUTH BAY FOUNDRY: #1920 (6 5/8 INCH). #1922 (5 INCH), #1923 (3 INCH), (SPECIFY DRAIN INLET TYPE)

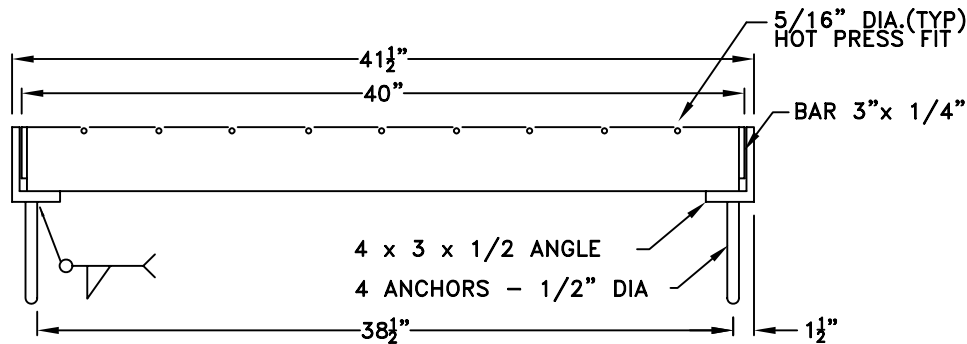
RHON HERNDON

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PUBLIC WORKS DIRECTOR

	DEPARTMENT OF PUBLIC WORKS
GRATE TYPE MANHOLE COVER	
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	DR-8



SECTION A-A



NOTES:

1. FOR CATCH BASINS EXCEEDING FOUR FEET IN DEPTH, AN 18 INCH LONG, 1/4 INCH X 1/8 INCH PROOF COIL CHAIN SHALL CONNECT THE GRATE AND FRAME. THE CHAIN SHALL BE WELDED TO THE STREET SIDE OF THE FRAME AND THE CURB SIDE OF THE GRATE AT THE SAME END.
2. AT THE CONTRACTOR'S OPTION, END SPACING OF 5/16" CROSS RODS MAY BE 2". INTERIOR SPACING SHALL REMAIN 4".

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PUBLIC WORKS DIRECTOR

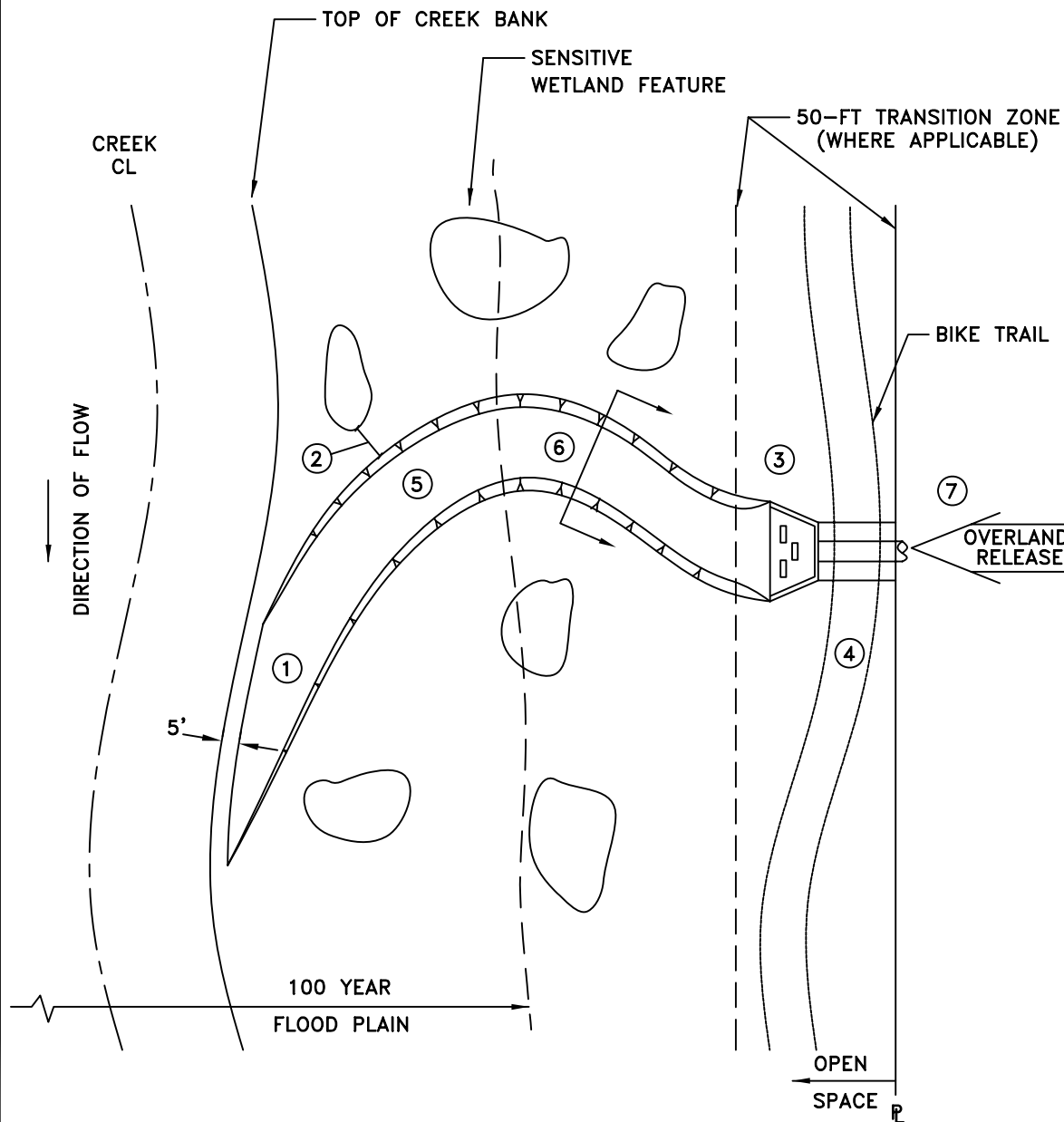


DEPARTMENT OF
PUBLIC WORKS

**DROP INLET FRAME AND GRATE
FOR TYPE "C" INLETS**

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-9



NOTES:

- ① DRAINAGE SWALE (DR-11) SHALL DAYLIGHT 5-FT PRIOR TO TOP OF CREEK BANK. FLOW VELOCITY SHALL BE AT 2 FPS PRIOR TO DAYLIGHT.
- ② EDGE OF DRAINAGE SWALE SHALL REMAIN A MINIMUM OF 5-FT FROM ANY SENSITIVE WETLAND FEATURES.
- ③ OUTFALL STRUCTURE (DR-12) MAY BE PLACED WITHIN 50-FT TRANSITION ZONE. IN AREAS WHERE A TRANSITION ZONE DOES NOT EXIST, THE LOCATION OF THE OUTFALL STRUCTURE SHALL BE ONSITE OR AS APPROVED BY THE CITY ENGINEER.
- ④ IF A BIKE TRAIL IS LOCATED WITHIN THE OPEN SPACE, THEN THE OUTFALL STRUCTURE SHALL BE PLACED ON THE STREAM SIDE OF THE BIKE TRAIL.
- ⑤ VELOCITY CHECK DAMS DR-14 SHALL BE USED WHEN DESIGN FLOW VELOCITY EXCEEDS 5 FPS.
- ⑥ SEE STANDARD DETAIL DR-11 FOR SWALE CROSS SECTION.
- ⑦ OVERLAND RELEASE SHALL TIE INTO HEADWALL STRUCTURE PER DETAIL DR-12.
- ⑧ SWALE LENGTH IS A FUNCTION OF CONTACT TIME AS REQUIRED FOR STORM WATER TREATMENT.

RHON HERNDON

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PUBLIC WORKS DIRECTOR

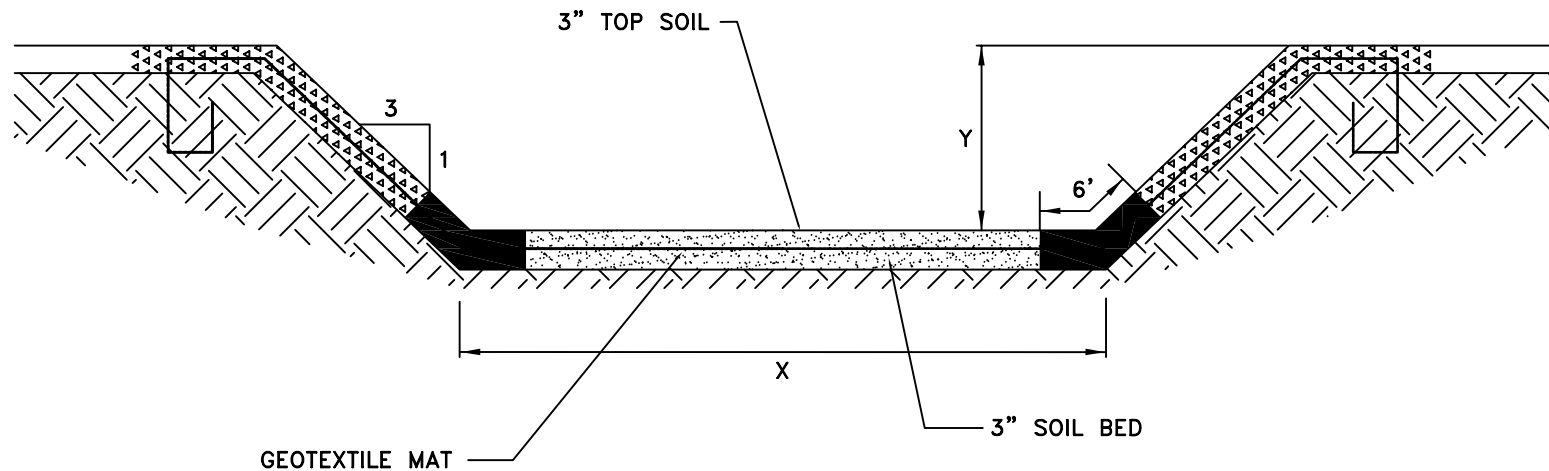


DEPARTMENT OF
PUBLIC WORKS

**WATER QUALITY OUTFALL SWALE
WITHIN OPEN SPACE**

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-10



KEY:

-  SWALE/WET NATIVE SEED MIX
(SEE SECTION 11, GRADING FOR SEED MIX)
-  DRY NATIVE SEED MIX
(SEE SECTION 11, GRADING FOR SEED MIX)
-  SWALE/WET AND DRY SEED MIX
- X CHANNEL BASE
- Y CHANNEL DEPTH

NOTES

1. PYRAMAT HPTRM OR APPROVED EQUAL SHALL BE PLACED ON TOP OF 3-IN SEEDED SOIL BED AND WILL BE INSTALLED PER THE MANUFACTURE'S SPECIFICATIONS.
2. SKIM COAT OF SEEDED TOPSOIL SHALL BE PLACED ON TOP OF THE HPTRM.
3. WETLAND AND UPLAND SEEDING SHALL OVERLAP AT THE TRAPEZOIDAL HINGE POINT.
4. IF SWALE IS BEING USED FOR STORM WATER TREATMENT, THEN THE CHANNEL GEOMETRIC DESIGN SHALL FOLLOW THE GUIDLINES FOR CONTACT TIME FROM THE STORMWATER QUALITY DESIGN MANUAL FOR THE SACRAMENTO AND SOUTH PLACER REGIONS.
5. ALL SWALES SHALL BE DESIGNED TO CONVEY THE 10-YEAR STORM EVENT.

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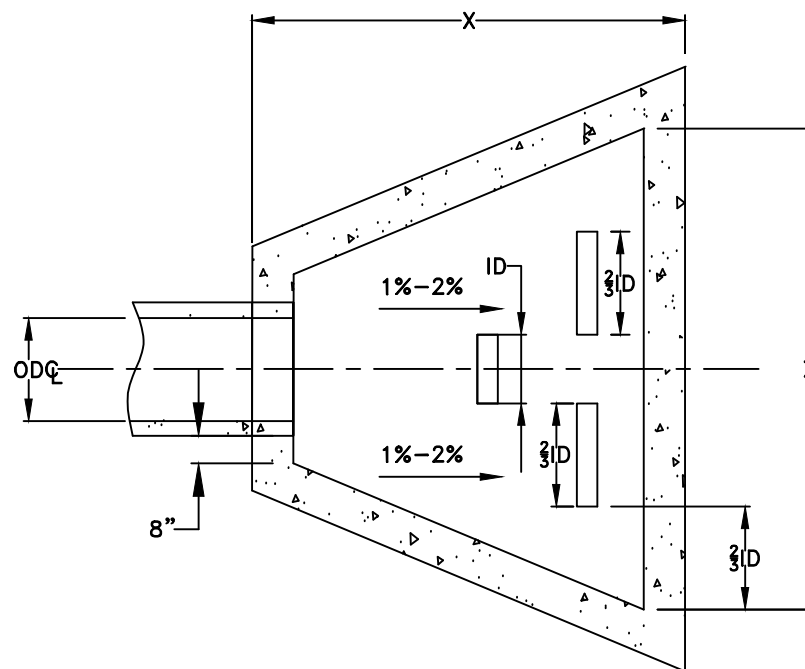


DEPARTMENT OF
PUBLIC WORKS

WATER QUALITY OUTFALL SWALE

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-11



MARC STOUT
CITY ENGINEER

6. REFER TO STANDARD DETAIL DR-16 FOR ACCESS CONTROL RACK REQUIREMENTS



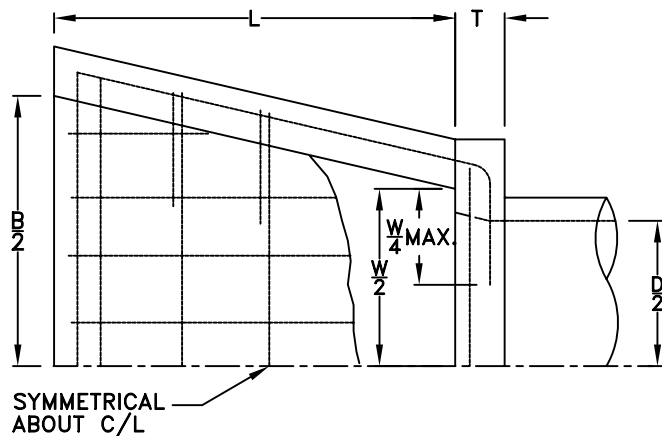
CITY OF
ROSEVILLE
CALIFORNIA

DEVELOPMENT SERVICES
DEPARTMENT

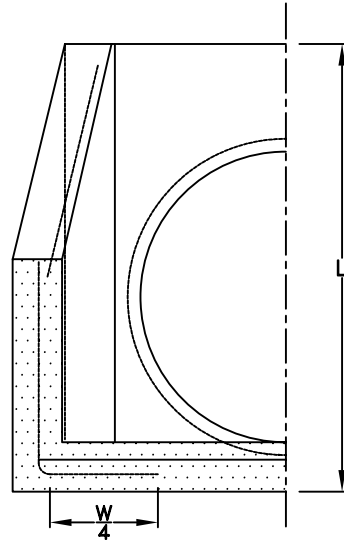
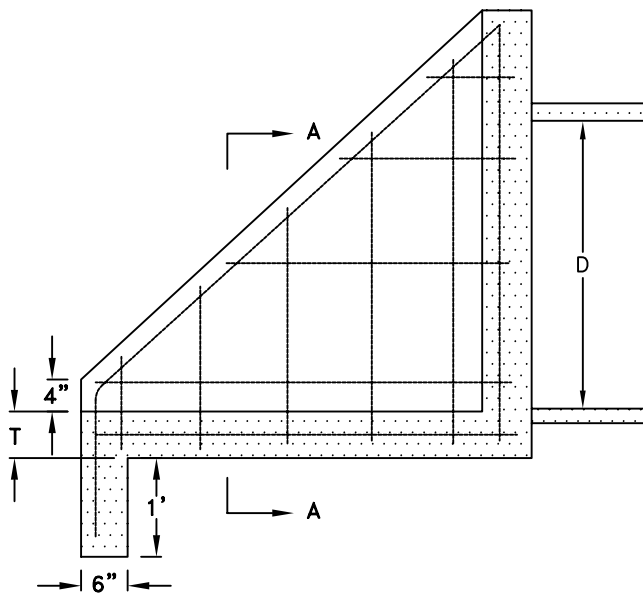
HEADWALL

DRAWN BY: J MCKINNEY
APPROVED BY: MARC STOUT

DR-12



DIMENSIONS & REINFORCING					
D	W	B	L	T	ALL REINFORCING
33"	3'- 5"	5'- 3"	4'- 0"	6"	# 5 @ 12"
36"	3'- 8"	5'- 8"	4'- 2"	6"	# 5 @ 12"
42"	4'- 4"	6'- 4"	4'- 8"	6"	# 5 @ 12"
48"	4'-10"	7'- 2"	5'- 2"	8"	# 6 @ 12"
54"	5'- 4"	8'- 0"	6'- 0"	8"	# 6 @ 12"
60"	6'- 0"	8'-10"	6'- 6"	8"	# 6 @ 12"



HALF SECTION A-A

RHON HERNDON

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DEPARTMENT OF
PUBLIC WORKS

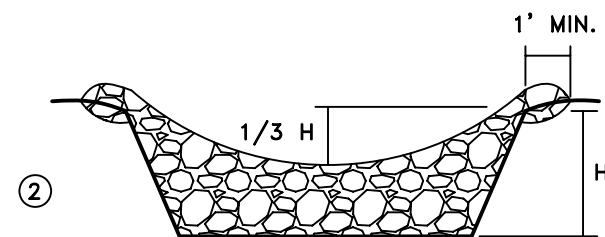
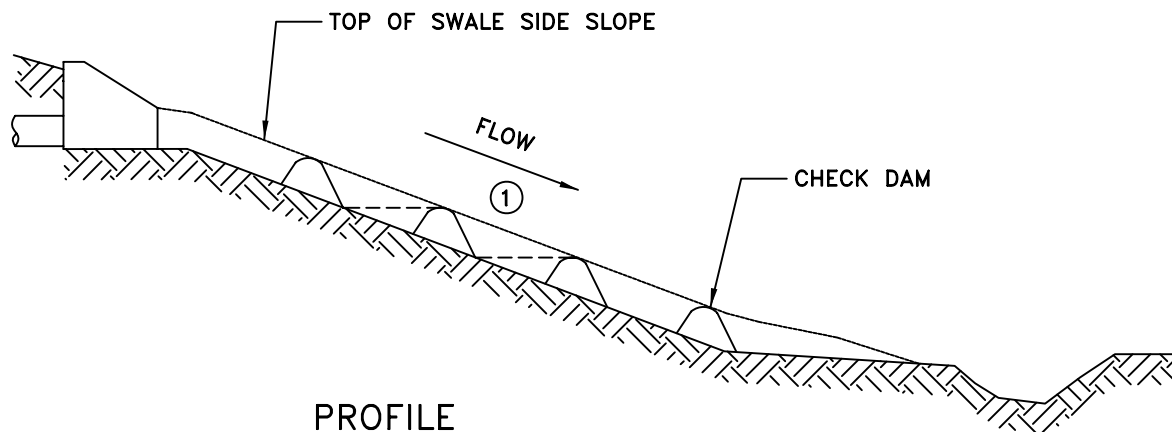
PIPE INLET STRUCTURE

NOTES:

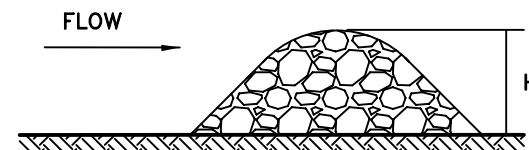
- "B" MAY BE REDUCED IF REQUIRED BY CHANNEL DIMENSIONS
- REINFORCING BAR SPACING SHOWN IS MAXIMUM SPACING.
- ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
- SEE DR-15 FOR TRASH RACK DETAIL.

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-13



FRONT VIEW



SIDE VIEW

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

- ① CHECK DAMS SHALL BE SPACED SUCH THAT THE TOP OF THE DOWNSTREAM CHECK DAM ALIGNS WITH THE BOTTOM OF THE UPSTREAM CHECK DAM.
- ② RIP-RAP SHALL BE 4-INCH TO 6-INCH ANGULAR ROCK.
- ③ H = CHANNEL DEPTH

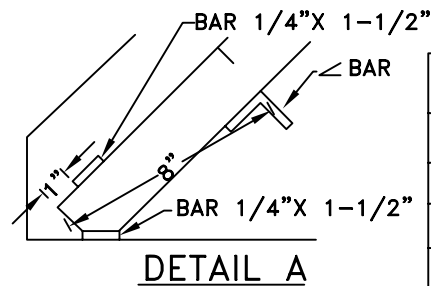
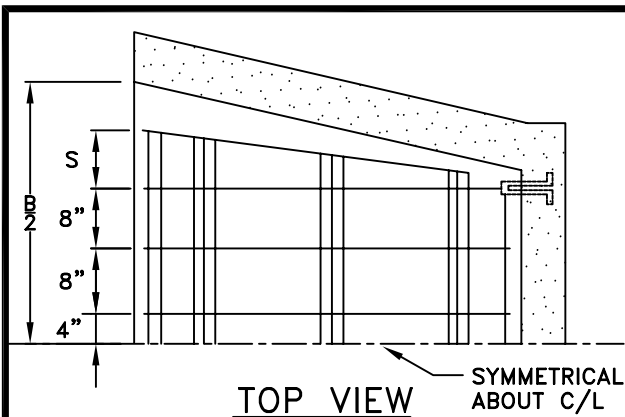


DEPARTMENT OF
PUBLIC WORKS

VELOCITY CHECK DAM

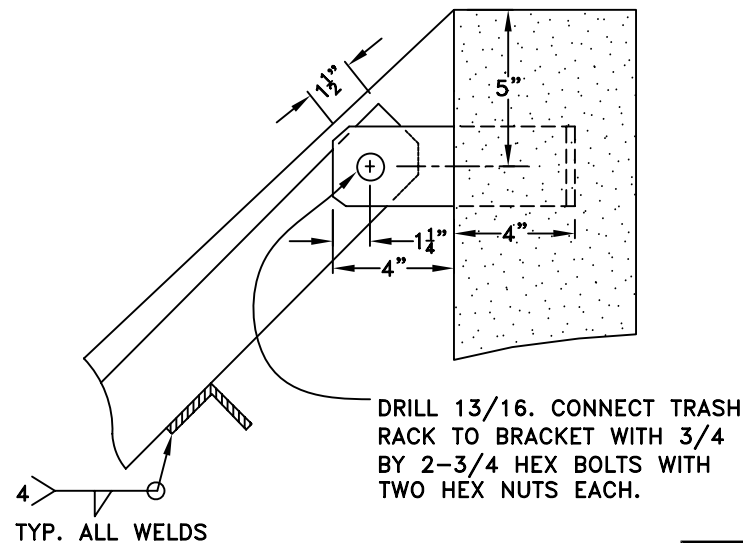
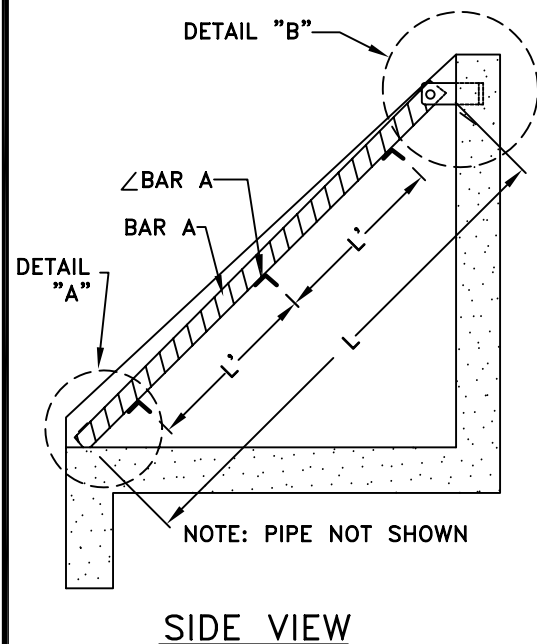
SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-14



TRASH RACK DIMENSIONS

DIA.	NUMBER & SIZE		L	L ¹	S	H
	BAR A	L BAR				
33"	8-3/8 X 2 1/2	3-2 X 2 X 1/4	5'-1"	1'-10"	8"	3"-8"
36"	"	"	5'-4"	1'-11"	8"	3'-10"
42"	9-3/8 X 2 1/2	"	5'-11"	2'-3"	9"	4'-4"
48"	"	4-2 X 2 X 1/4	6'-7"	1'-9"	10"	4'-10"
54"	10-3/8 X 3	4-3 X 3 X 1/4	7'-9"	2'-1 1/2"	10 1/2"	5'-8"
60"	11-3/8 X 3 1/2	"	8'-5"	2'-4"	11"	6'-2"

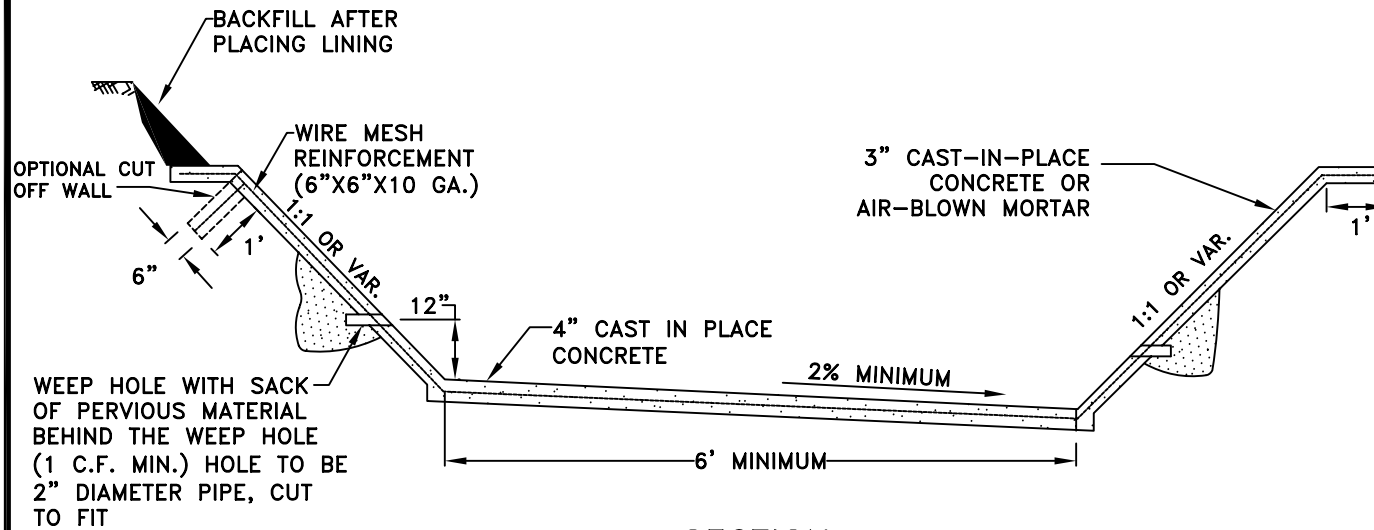


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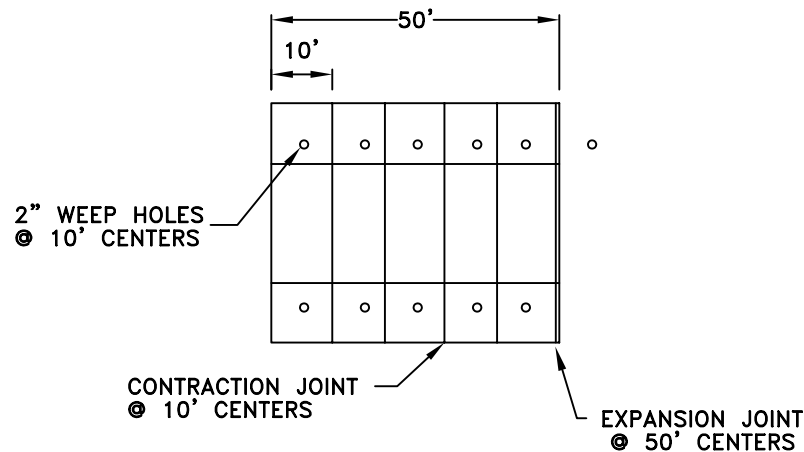
NOTES

1. THIS TRASH RACK MAY BE USED WITH PIPE INLET STRUCTURES.
2. MATERIAL TO CONFORM TO ASTM DESIGNATION A-36.
3. 'S' MAY VARY WITH 'B'. SEE PLATE.
4. ALL FILLET WELDS TO BE 3/16"
5. TWO HINGES REQUIRED FOR 33, 36 & 42 INCH PIPES. THREE HINGES REQUIRED FOR 48, 54 & 60 INCH PIPES.

	DEPARTMENT OF PUBLIC WORKS			
INLET TRASH RACK 33" PIPE OR LARGER				
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON		DR-15		



SECTION



PLAN

NOTE:

1. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.

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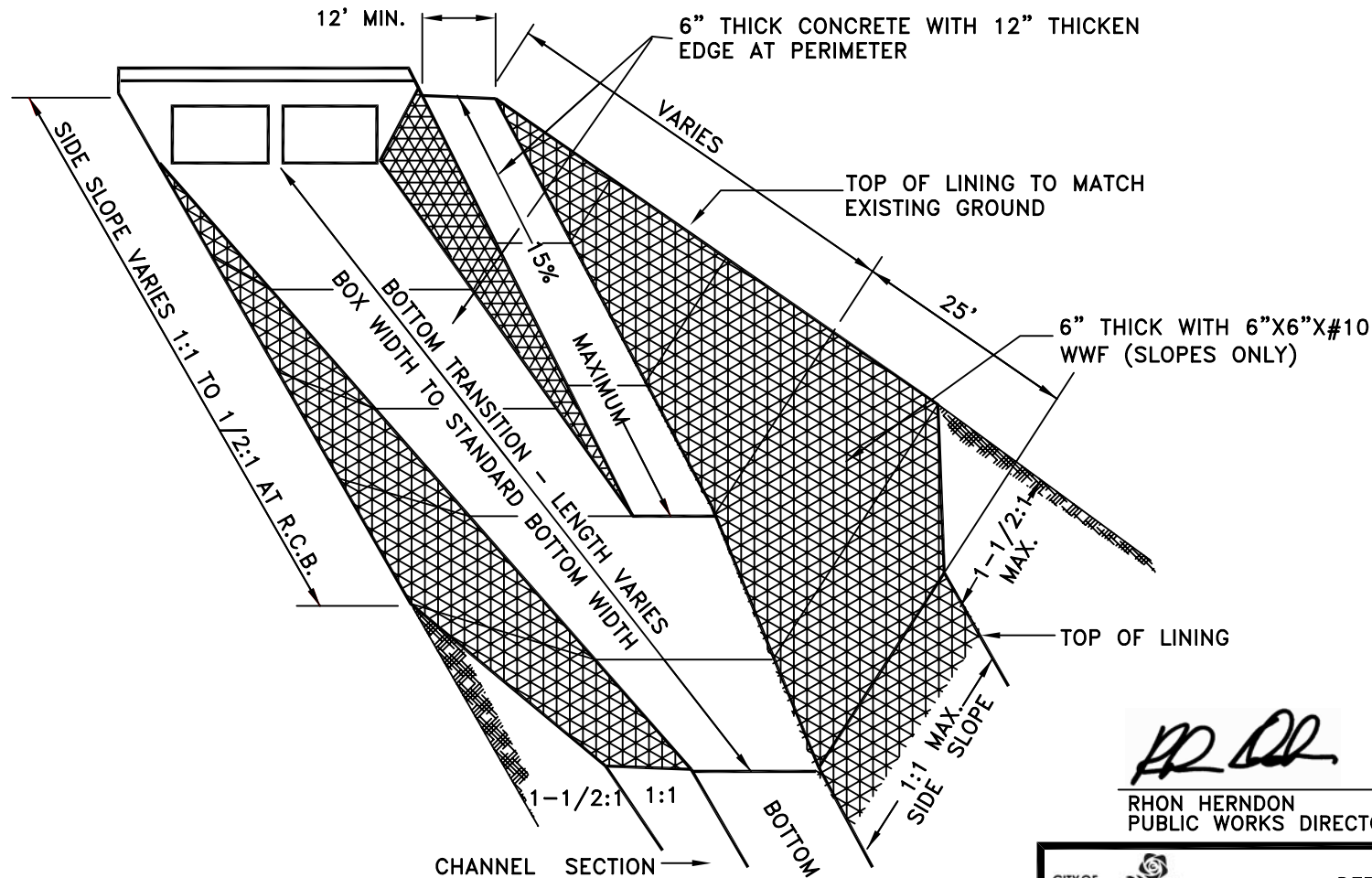


DEPARTMENT OF
PUBLIC WORKS

LINED CHANNEL SECTION

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-17



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DEPARTMENT OF
PUBLIC WORKS

TYPICAL RAMP & TRANSITION

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-18

NOTES:

1. BOTTOM TRANSITION 25' MINIMUM LENGTH WITH NO RAMP.
2. WEEP HOLES AND JOINTS AS REQUIRED FOR ALL LINED CHANNEL SECTIONS (SEE DETAIL DR-17).
3. LOW SIDE OF CHANNEL TO BE OPPOSITE RAMP.
4. SIDE SLOPE LINING MAY BE DELETED ON CHANNELS WITH BOTTOM LINING ONLY
5. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.

MAXIMUM TRENCH DEPTH MEASURED SURFACE TO BOTTOM OF TRENCH IN FEET						
DIAMETER	REINFORCED CONCRETE PIPE -CLASS-					CAST IN PLACE
	I	II	III	IV	V	
10	NOT PERMITTED					NO LIMIT
12		8	12	30		
15		10	15	35		
18		11	16	38		
21		12	17	39		
24		12	18	39		
27		13	19	39		
30		14	19	38		
33		14	20	38		
36		13	17	27	69	
42		14	18	29	62	
48		15	19	30	60	
54		16	20	31	58	
60	14	16	21	31	57	45
66	15	17	22	32	56	35
72	15	18	23	33	56	30

NOTES:

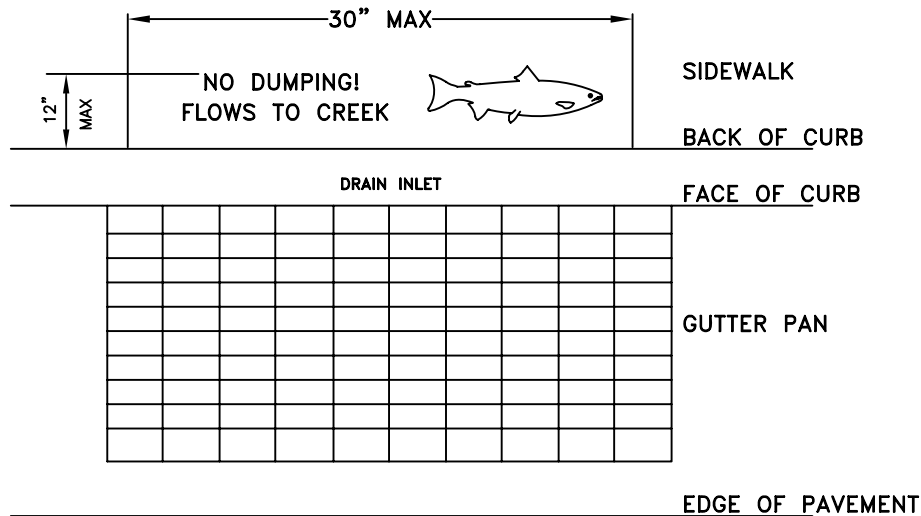
1. ALL DEPTHS SHOWN ARE FLEXIBLE PAVEMENT AND TRENCH WIDTH EQUAL TO O.D. OF PIPE PLUS 16" FOR PIPE 33" AND SMALLER IN INSIDE DIAMETER.
2. TRENCH WIDTH EQUALS O.D. OF PIPE PLUS 24" FOR PIPE 36" AND LARGER IN INSIDE DIAMETER. TRENCH WIDTH MEASURED AT TOP OF PIPE.

MINIMUM COVER MEASURED SURFACE TO TOP OF PIPE IN INCHES			
TYPE	CLASS	MIN. COVER	
		STREET	OFF ST.
REINFORCED CONCRETE	I	27	12
	II	24	12
	III	18	12
	IV	12	12
	V	12	12
CAST PLACE CONC. PIPE	-----	24	12
PVC PIPE		36	24

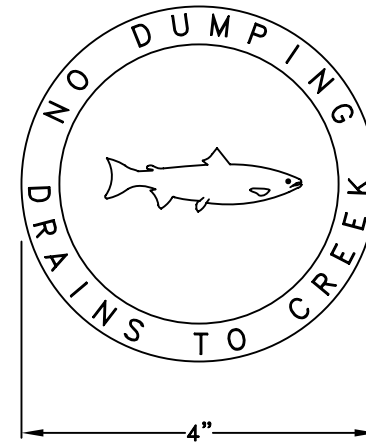


RHON HERNDON
PUBLIC WORKS DIRECTOR

	DEPARTMENT OF PUBLIC WORKS			
TRENCH DEPTH AND MINIMUM COVER REQUIREMENTS				
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON		DR-19		



DETAIL "A"



DETAIL "B"

NOTES:

1. DETAIL "A" LETTERING SHALL BE 1 1/4 TO 1 1/2 INCHES HIGH. THE MESSAGE AND SYMBOL SHALL BE DEPRESSED 1/8 TO 1/4 INCH INTO THE CONCRETE. THE FISH SYMBOL SHALL BE A MINIMUM OF 11 INCHES LONG AND 3 1/2 INCHES HIGH.
2. DETAIL "A" SHALL BE PRE APPROVED BY THE CONSTRUCTION INSPECTOR PRIOR TO ITS USE.
3. DETAIL "A" SHALL APPLY TO ALL DRAIN INLET DESIGNS. WHERE THE SIDEWALK DOES NOT ADJOIN THE BACK OF CURB, THE NOTICE SHALL BE STAMPED IN THE CONCRETE BACKUP, BEHIND THE DRAIN INLET. WHERE THE DRAIN INLET IS PLACED IN A "V" GUTTER WITHOUT A CURB INLET, THE NOTICE SHALL BE STAMPED ON ONE SIDE OR THE OTHER, PARALLEL TO THE LENGTH OF THE INLET.
4. DETAIL "B" MAY BE PLACED WHERE DETAIL "A" DOES NOT WARRANT INSTALLATION AT THE DISCRETION OF THE PUBLIC WORKS CONSTRUCTION INSPECTOR. SEE DRAINAGE SECTION 101-8 OF THE DESIGN AND CONSTRUCTION STANDARDS FOR SPECIFICATIONS.
5. THE MESSAGE SHALL BE FREE OF BLEMISHES, LEGIBLE AND ACCEPTABLE TO THE CONSTRUCTION INSPECTOR.

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

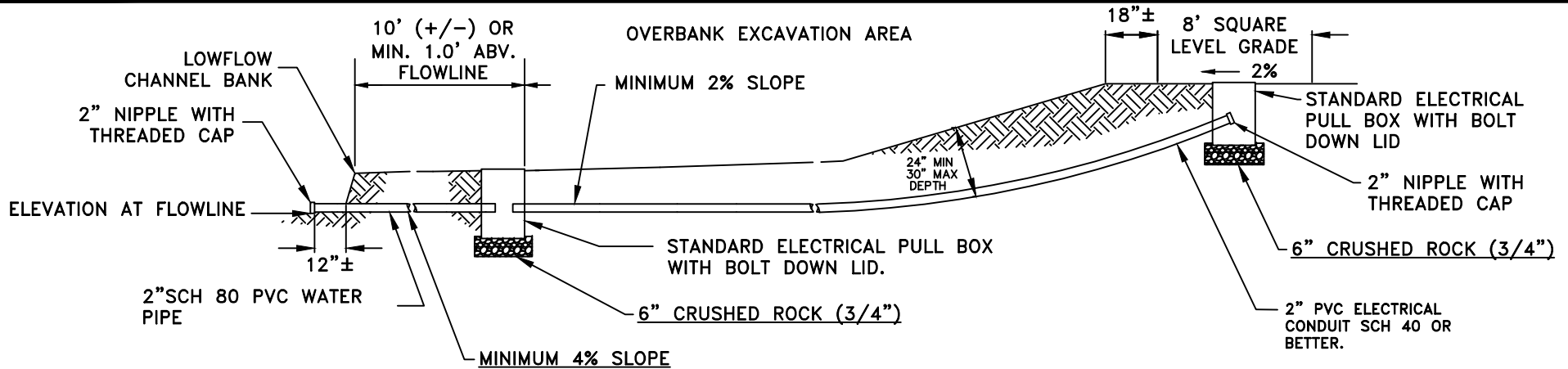


DEPARTMENT OF
PUBLIC WORKS

"NO DUMPING"
PUBLIC NOTICE

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-20

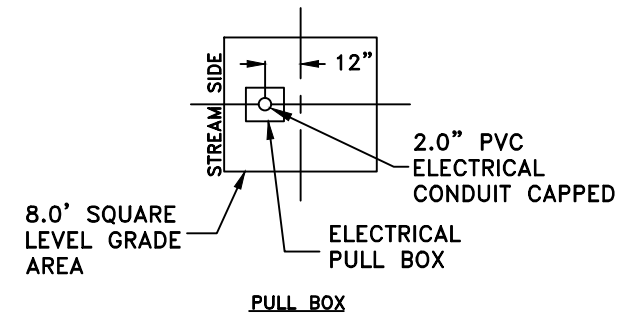


NOTE:
SLOPE PIPES TOWARD THE CREEK.

NOTES ON TYPICAL STREAM GAUGING PAD ADJACENT TO NEW BRIDGE CONSTRUCTION OVER CITY OF ROSEVILLE CREEKS.

EACH STREAM GAUGING CONDUIT WILL HAVE FOUR COMMON PRINCIPAL COMPONENTS:

1. A PAD GRADE AREA 8.0 FEET SQUARE WITH 2% SLOPE TOWARD THE STREAM SIDE. AN ELECTRICAL PULL BOX WILL BE INSTALLED 12 INCHES OFF CENTER OF THE PAD TOWARD THE STREAM SIDE.
2. TWO INCH ELECTRICAL PVC CONDUIT SCH. 40 OR BETTER COMMENCING AT THE ELECTRICAL PULL BOX ON THE PAD AND TERMINATING IN AN ELECTRICAL PULL BOX 10 FEET +/- FROM THE LOW FLOW CHANNEL BANK OR 1 FOOT +/- ABOVE THE LOW FLOW. THE CONDUIT SHOULD NOT INCLUDE ONLY LONG RADIUS ELBOWS TO DROP IT DOWN TO THE APPROPRIATE ELEVATION. A PULL STRING 1/4" NYLON PULL ROPE SHALL BE BLOWN INTO THE CONDUIT FROM THE ELECTRICAL PULL BOX ON THE PAD AREA TO THE ELECTRICAL PULL BOX ADJACENT TO THE LOW FLOW CHANNEL.
3. STANDARD NO. 5 ELECTRICAL PULL BOXES WITH BOLT DOWN LIDS WILL BE USED. THE BOTTOMS OF PULL BOXES SHALL BE BEDDED IN 6 INCHES OF CLEAN CRUSHED ROCK. CONDUIT TERMINATION IN THE PULL BOX SHALL BE A MINIMUM OF 2 INCHES FROM THE SIDES OF THE PULL BOX, 6 INCHES ABOVE THE CRUSHED ROCK. PULL BOX RIM AND LID SHALL BE 1 1/2" ABOVE FINISH GRADE.
4. LOCATION OF THIS STRUCTURE SHOULD BE ON THE UPSTREAM SIDE OF THE BRIDGE AND BE ACCESSIBLE BY FOOT AT ALL POINTS FROM THE LEVEL GRADE AREA TO THE TERMINATION AT THE LOW FLOW CHANNEL. TRUCK ACCESS IS NECESSARY TO THE 8.0 SQUARE FOOT PAD AREA BUT NOT TO OTHER POINTS ALONG THE CONDUIT. ALONG WITH THIS PHYSICAL ACCESS CONCOMITANT RIGHTS OF ACCESS AND/OR EASEMENTS WILL BE GRANTED BY PROPERTY OWNER TO ALLOW FOR MAINTENANCE OF CITY EQUIPMENT INSTALLED ON THIS SITE.



Marc Stout

MARC STOUT
CITY ENGINEER

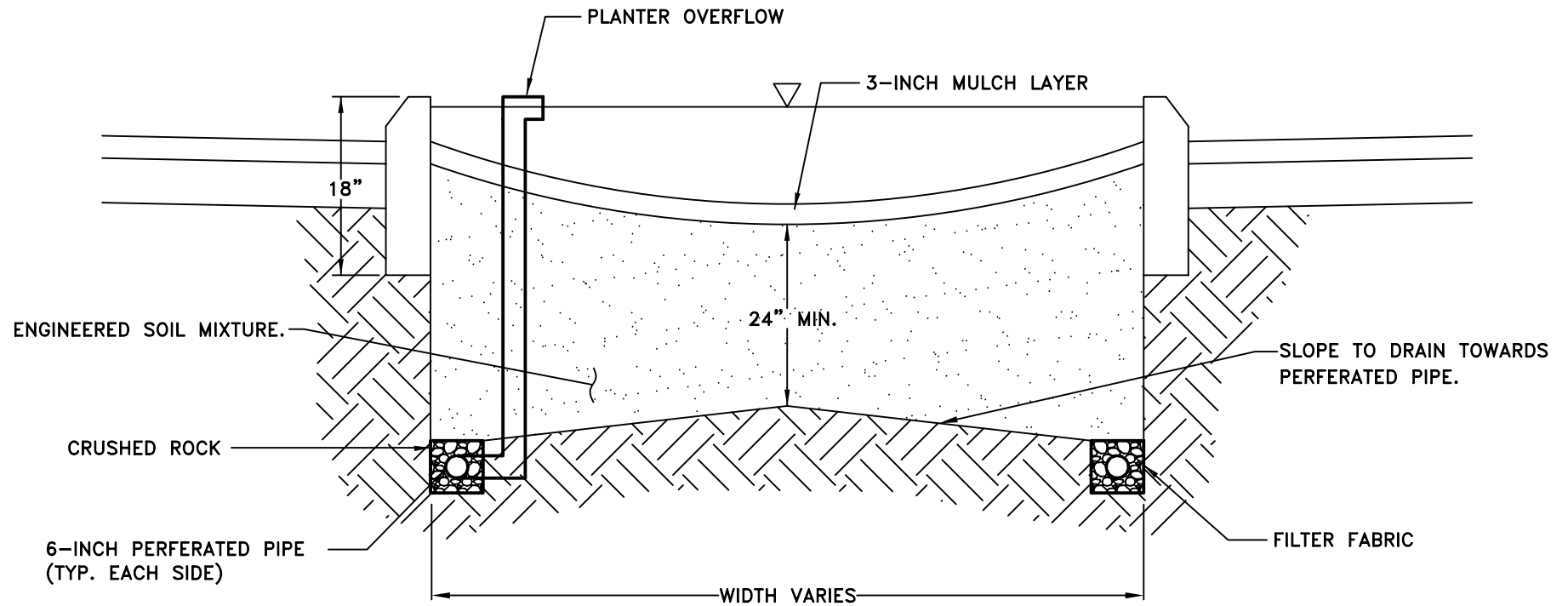


DEVELOPMENT SERVICES
DEPARTMENT

STREAM GAUGING STATION

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

DR-21



NOTE:

ENGINEERED SOIL SHALL CONTAIN
THE FOLLOWING MIX:

- 50% SAND
- 30% TOP SOIL
- 20% LEAF COMPOST

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

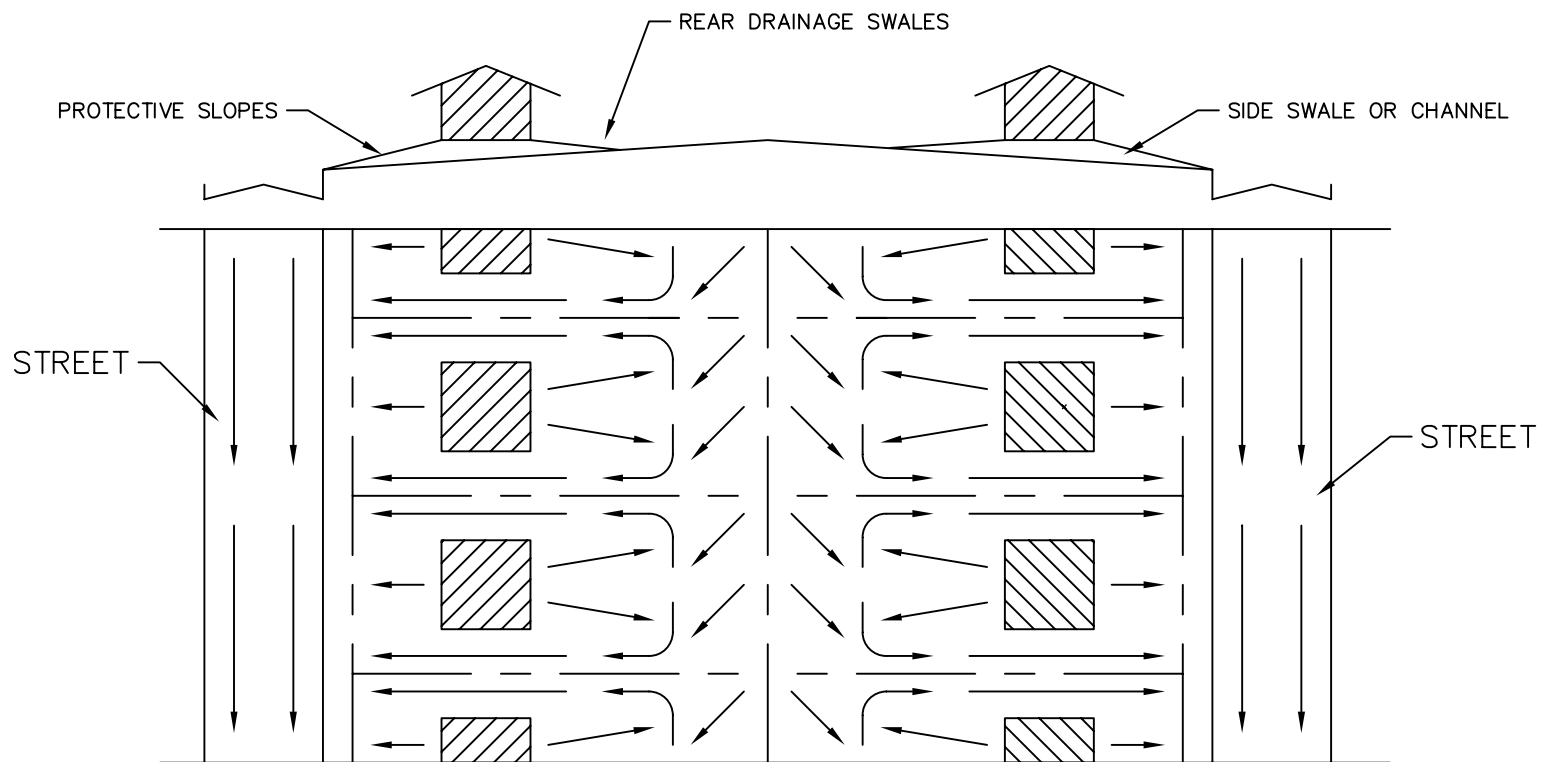


DEPARTMENT OF
PUBLIC WORKS

PRIVATE
BIORETENTION PLANTER

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-22



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

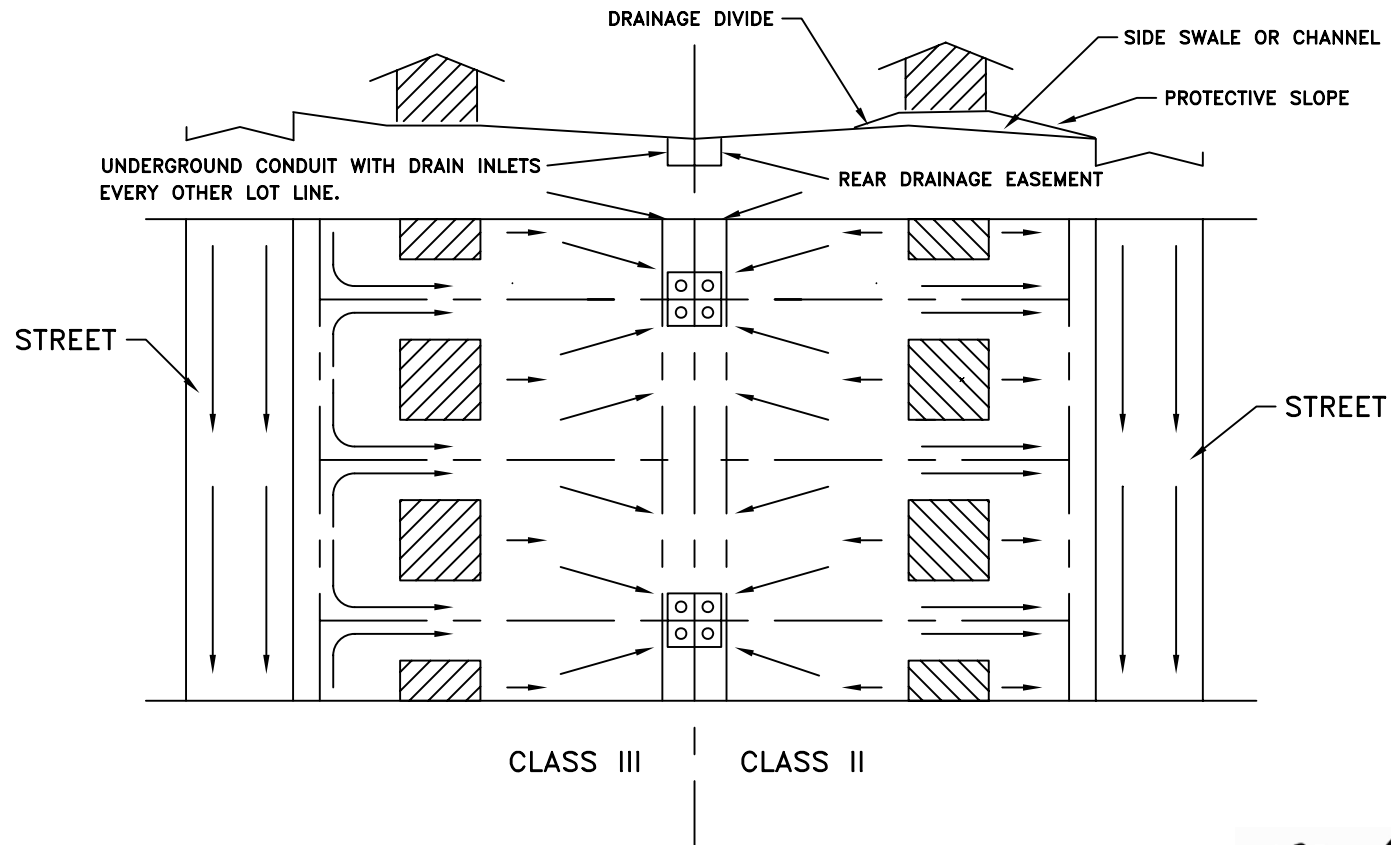
CLASS 1 LOT GRADING

NOTES:

1. LOTS CAN BE GRADED AS A PAD WITH A MINIMUM 1% GRADE TOWARD THE STREET -OR- LOTS CAN GRADED FLAT WITH DRAINAGE DITCHES EXTENDING THE LENGTH OF THE SIDE LOT LINE WITH A MINIMUM 1% GRADE TOWARD THE STREET.

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

GR-1



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. THOSE LOTS WHICH DO NOT DRAIN TOWARDS EXISTING OR FUTURE LOTS MAY ELIMINATE THE USE OF REAR LOT DRAINS PROVIDED ADDITIONAL EROSION CONTROL MEASURES ARE IMPLEMENTED SUBJECT TO APPROVAL OF THE CITY ENGINEER.
2. EACH LOT TO HAVE IT'S OWN INLET.
3. STORM DRAIN SYSTEM SHALL BE LOCATED IN A PRIVATE DRAINAGE EASEMENT AND MAINTAINED BY PROPERTY OWNER.

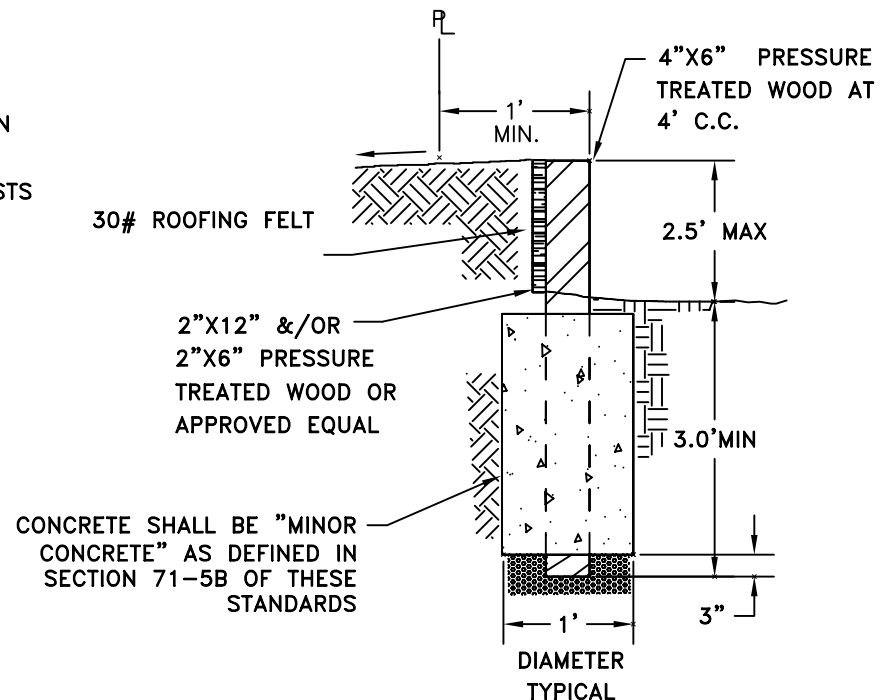
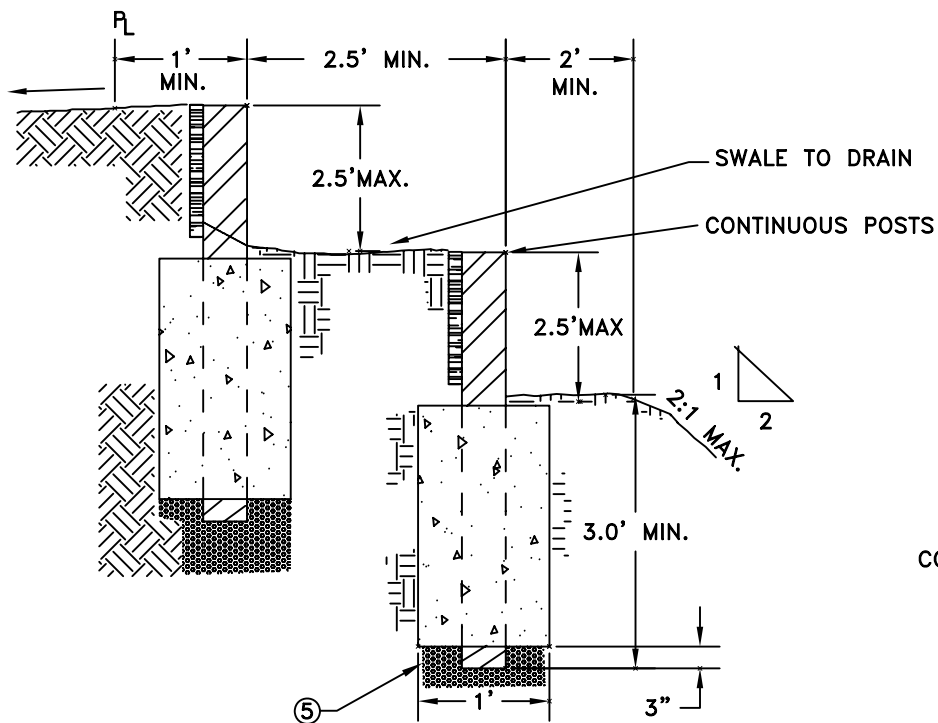


DEPARTMENT OF
PUBLIC WORKS

LOT GRADING
CLASS II AND III

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

GR-2



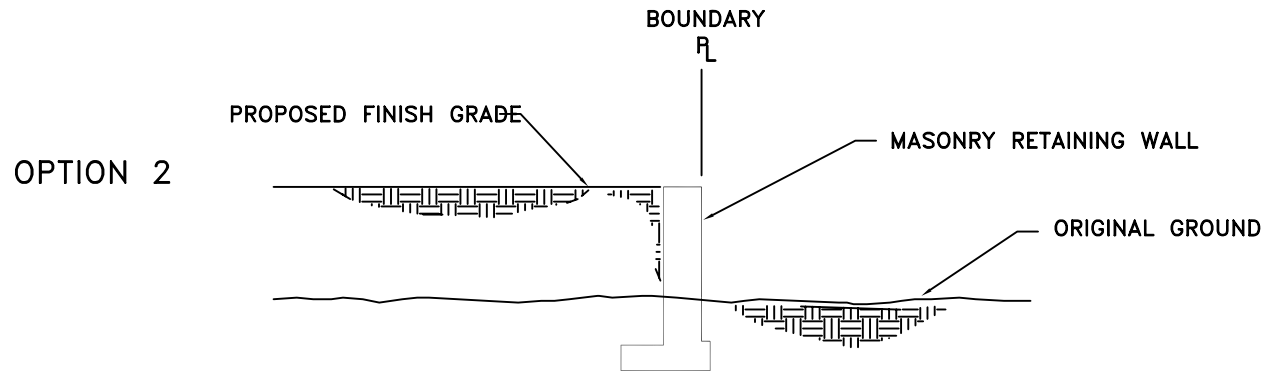
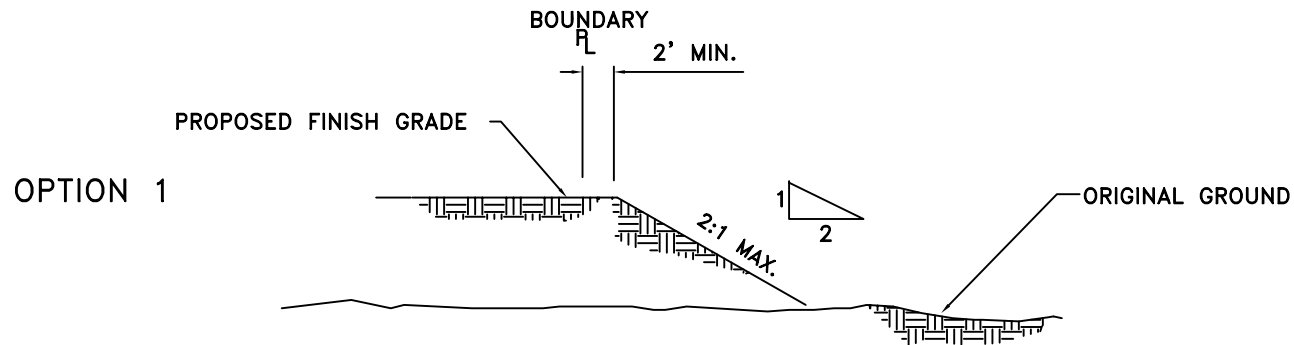
RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES:

1. MATERIAL FOR WOODEN WALLS SHALL BE PRESSURE TREATED WOOD OR APPROVED EQUAL BY THE CITY ENGINEER PRIOR TO INSTALLATION.
2. ALL METAL HARDWARE TO BE CORROSIVE RESISTANT PER UBC STANDARDS.
3. WOODEN WALLS SHALL NOT BE USED ADJACENT TO STREET RIGHT OF WAYS.
4. 4" X 6" POSTS AT 4' CENTERS SHALL BE USED WHEN FENCES ARE ATTACHED TO RETAINING WALLS; MINIMUM EMBEDMENT FOR POSTS SHALL BE 3.0'. -MEETS U.B.C. STANDARDS
5. DRAIN ROCK SHALL BE PLACED AT BASE OF ALL POST HOLES.

	DEPARTMENT OF PUBLIC WORKS
WOOD RETAINING WALL	
SCALE: NONE REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	GR-3



RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

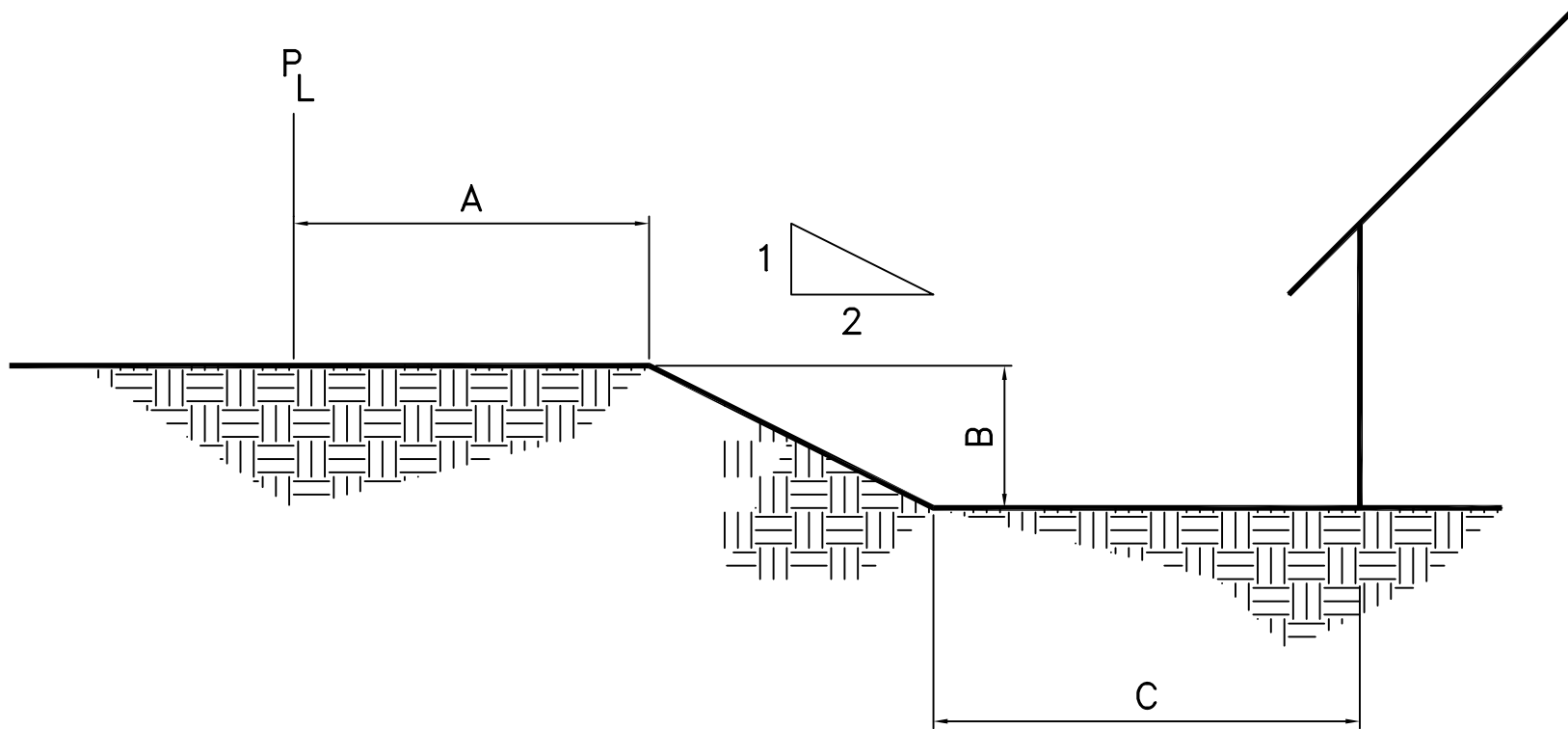
EXTERIOR PERIMETER
PROPERTY LINE GRADING

NOTE:

1. A NOTARIZED RIGHT OF ENTRY IS REQUIRED FROM ADJACENT PROPERTY OWNER FOR OPTION 1.

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

GR-4



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

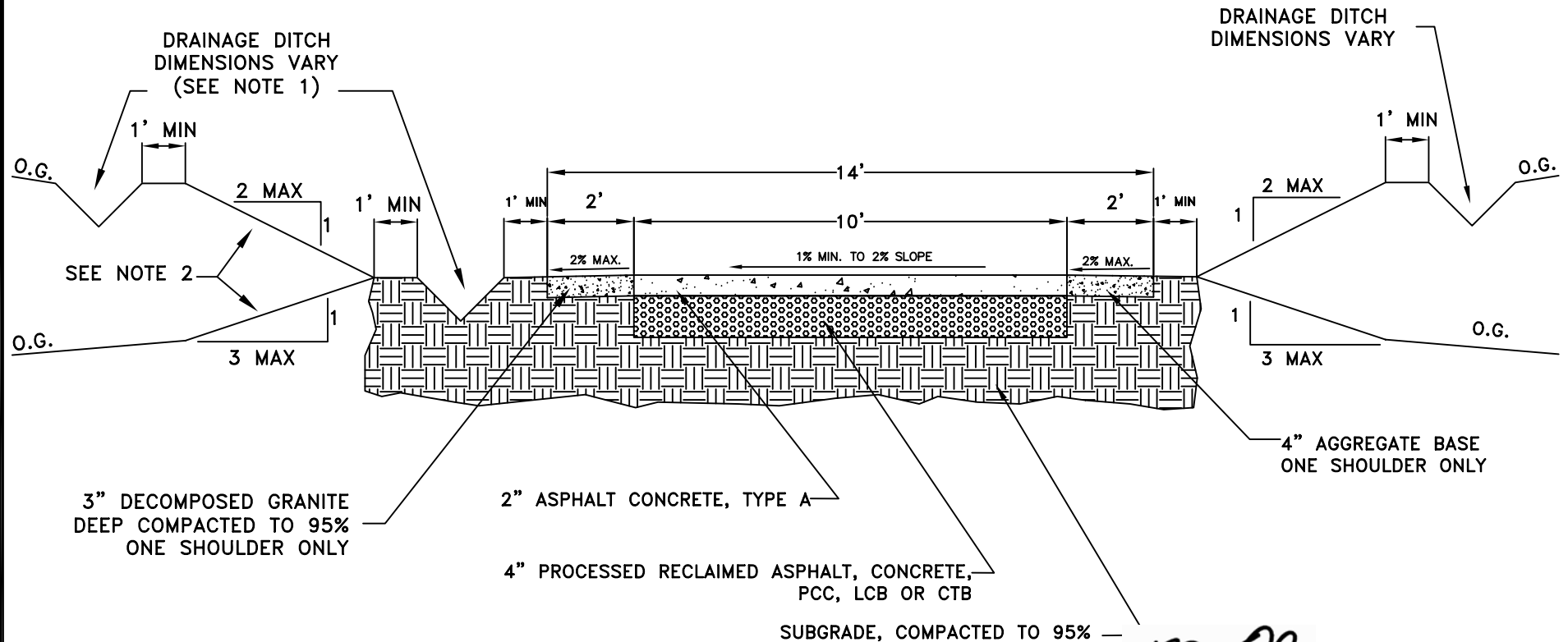
INTERIOR PROPERTY
LINE GRADING

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

GR-5

NOTES:

1. WHEN "B" IS LESS THAN OR EQUAL TO 0.5 FEET, "A" = 1.0 FEET.
2. WHEN "B" IS GREATER THAN 0.5 FEET, A RETAINING WALL IS REQUIRED OR A STANDARD LOT SETBACK GUARANTEE PROVIDED. IN SUCH CASE, "A" SHALL EQUAL 2.0 FEET AND "C" SHALL BE A MINIMUM OF 3.0 FEET.



RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

NOTES

- BIKE PATHS CONSTRUCTED WITHIN CUT-SLOPES SHALL HAVE A DRAINAGE DITCH OF SUITABLE DIMENSIONS ALONG THE UPHILL SIDE TO INTERCEPT THE HILLSIDE DRAINAGE. BIKE PATHS CONSTRUCTED ON TOP OF FILL SLOPES SHALL HAVE A DRAINAGE DITCH OF SUITABLE DIMENSIONS ALONG THE DOWNHILL SIDE TO INTERCEPT THE TRAIL'S DRAINAGE.
- MAXIMUM SLOPE RATE FOR CUT AND FILL SLOPES SHALL BE PER THE RECOMMENDATIONS OF A LICENSED GEOTECHNICAL ENGINEER OR AS MODIFIED BY THE APPROVED PLANS. IN LOCATIONS ADJACENT TO CREEKS, DITCHES, OR DOWN-SLOPES GREATER THAN 3 FEET HORIZONTAL TO 1 FOOT VERTICAL, A MINIMUM SHOULDER WIDTH OF 5 FEET FROM THE EDGE OF PAVEMENT TO THE TOP OF SLOPE IS REQUIRED.
- WHEN FIRE DEPARTMENT REQUIRES ACCESS ON BIKEWAYS, STRUCTURAL SECTION SHALL BE CAPABLE OF SUPPORTING A MINIMUM GROSS VEHICULAR WEIGHT OF 30,000 POUNDS. IF SOILS ANALYSIS IDENTIFIES AN R-VALUE LESS THAN 10, THE STRUCTURAL SECTION SHALL BE MODIFIED AS NECESSARY TO SUPPORT 30,000 POUNDS.

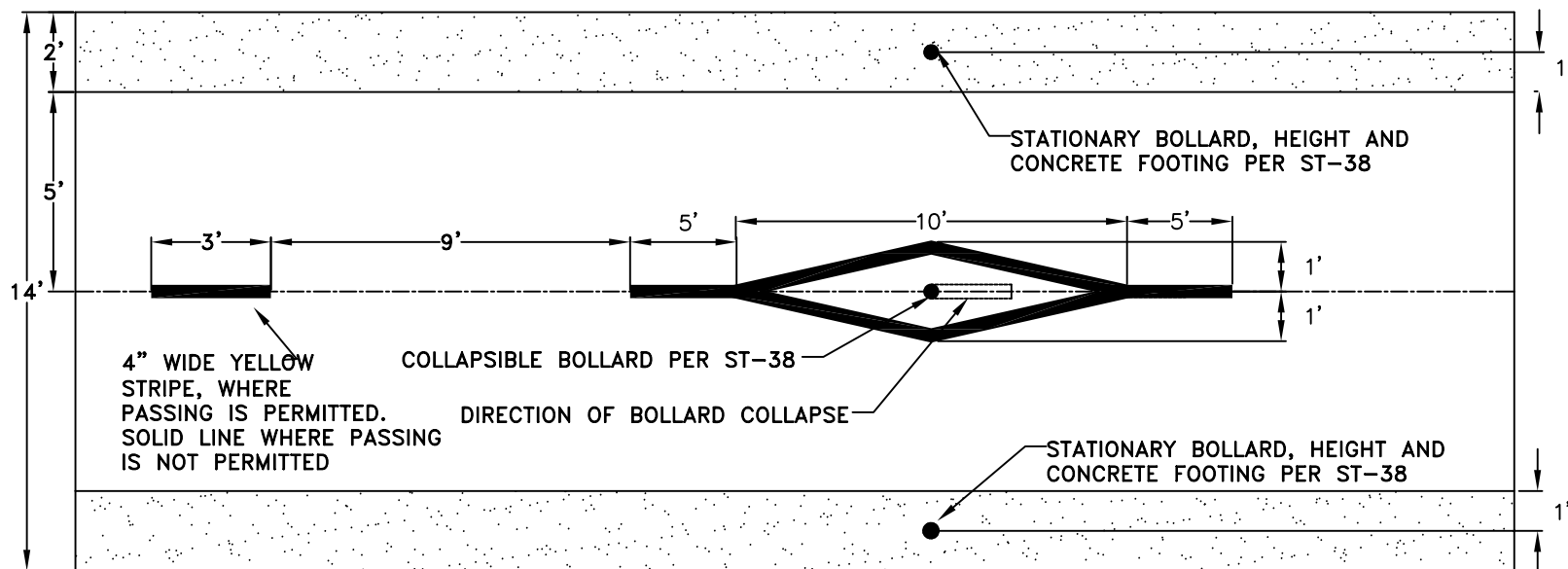


DEPARTMENT OF
PUBLIC WORKS

CLASS 1 BIKEWAY GRADING

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

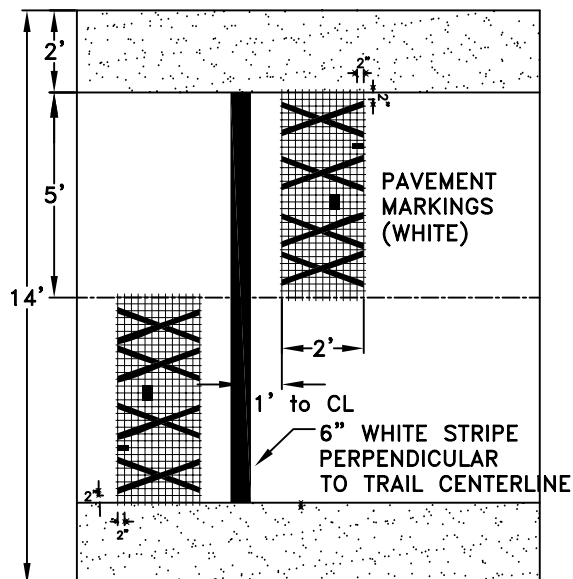
BK-1



BIKEWAY AND BOLLARD STRIPING DETAIL

NOTES:

1. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE CONSTRUCTED WITH PAINT PER CALTRANS STANDARD SPECIFICATIONS SECTION 84-3.
2. BOLLARD STRIPING SHALL CONFORM WITH CALTRANS HIGHWAY DESIGN MANUAL, SECTION 1003.1.15 AND THE CALIFORNIA MUTCD SECTION 9C.101
3. INSTALL RETROREFLECTIVE MARKERS ON ALL BOLLARDS PER CALIFORNIA MUTCD SECTION 9C.101
4. MILEAGE MARKER DESIGNATIONS AND LOCATIONS SHALL BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.



MILEAGE MARKER DETAIL

RHON HERNDON

RHON HERNDON
PUBLIC WORKS DIRECTOR

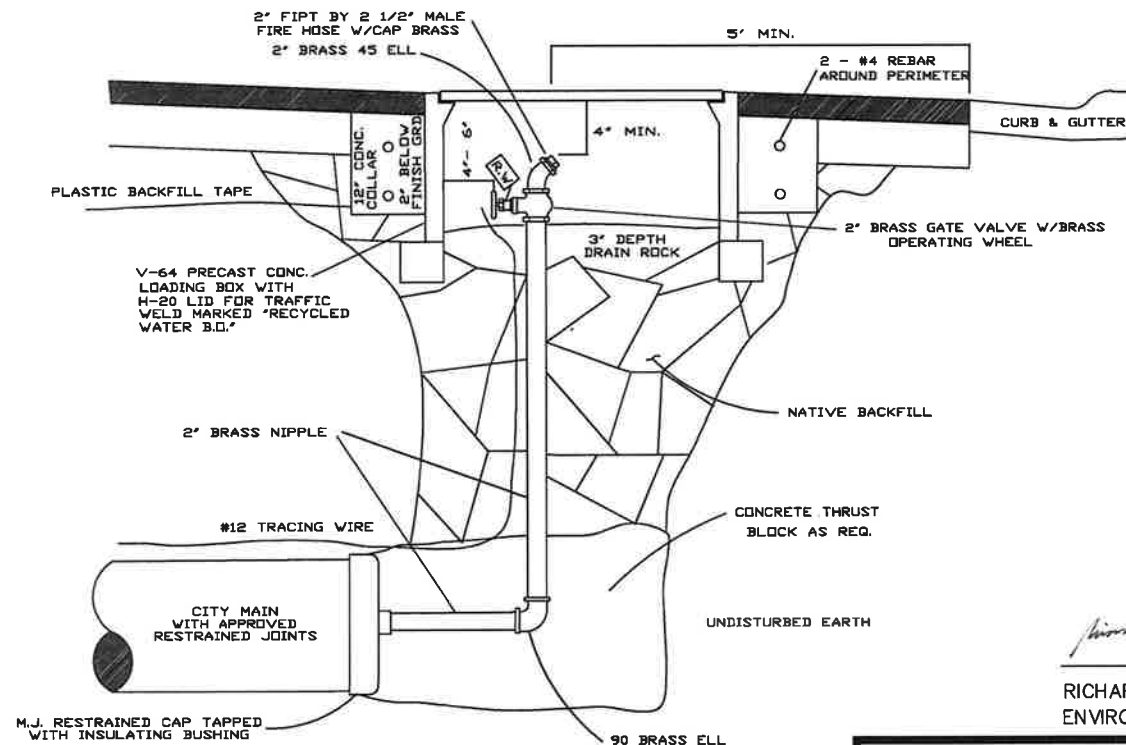


DEPARTMENT OF
PUBLIC WORKS

CLASS 1 BIKEWAY
STRIPING DETAILS

SCALE: NONE
REVISED: JANUARY 1, 2010
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

BK-2



NOTE: ALL PIPING INCLUDING BRASS TO BE 8 MIL POLY SEALED.

WRAP BRASS SPOOLS WITH RECYCLED WATER ID TAPE. TAPE TO BE PLACED OUTSIDE OF POLY SEAL.

INSTALL RECYCLED WATER TAG TO VALVE STEM.

BLOWOFFS OUTSIDE OF PAVED AREAS SHALL BE A MINIMUM OF 6" ABOVE GRADE AND MARKED WITH A CARSONITE MARKER.

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

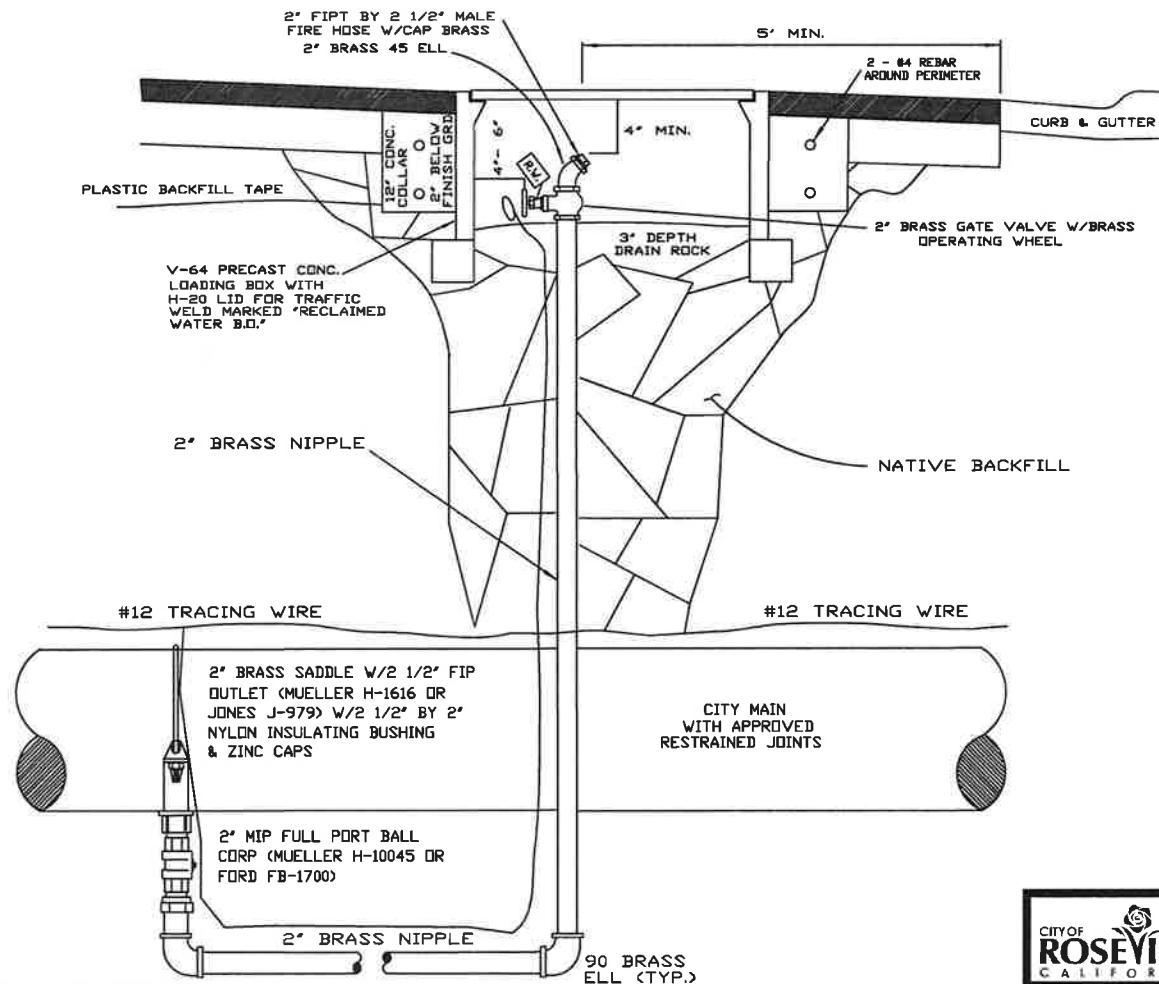


ENVIRONMENTAL UTILITIES
DEPARTMENT

RECYCLED WATER 2" INCH BLOWOFF ASSEMBLY (ALL BRASS)

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

RW-1



NOTES:

- ALL PIPING INCLUDING BRASS TO BE 8 MIL POLY SEALED. WRAP BRASS WITH RECYCLED WATER ID TAPE. TAPE TO BE PLACED OUTSIDE OF POLY SEAL.
- INSTALL RECYCLED WATER TAG TO VALVE OPERATOR STEM.
- POUR (1) FOOT DEEP BY 6" WIDE CONCRETE COLLAR AROUND UTILITY BOX IF OUTSIDE PAVEMENT AREA.
- BLOWOFFS OUTSIDE OF PAVED AREAS SHALL BE A MINIMUM OF 6" ABOVE GRADE AND MARKED WITH A CARSONITE MARKER.

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

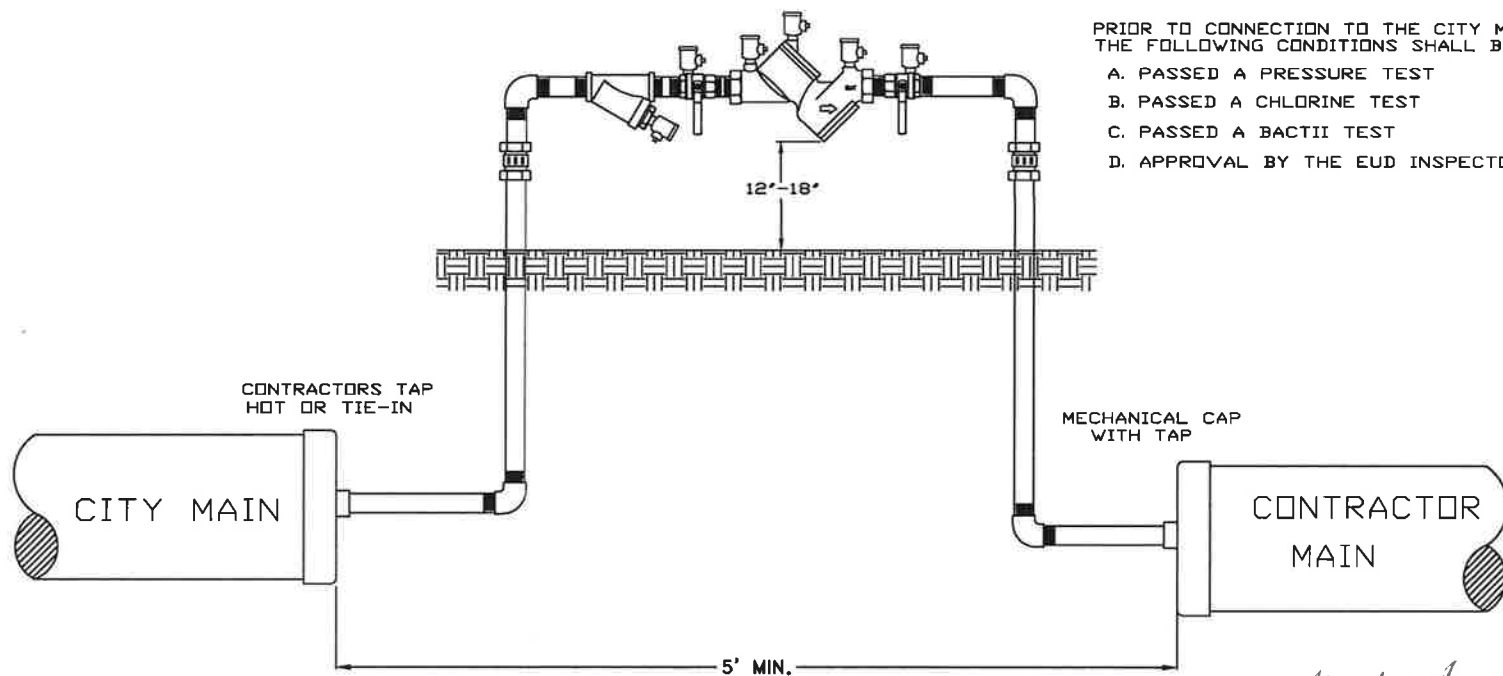


ENVIRONMENTAL UTILITIES
DEPARTMENT

RECYCLED WATER INLINE 2" BLOWOFF ASSEMBLY (ALL BRASS)

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

RW-2



PRIOR TO CONNECTION TO THE CITY MAIN,
THE FOLLOWING CONDITIONS SHALL BE MET:

- A. PASSED A PRESSURE TEST
- B. PASSED A CHLORINE TEST
- C. PASSED A BACTII TEST
- D. APPROVAL BY THE EUD INSPECTOR

NOTES:

WATER SHALL ONLY BE DRAWN INTO THE CONTRACTORS MAIN THROUGH A CITY APPROVED RP TYPE BACKFLOW DEVICE WHICH HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPARTMENT.

FINAL SYSTEM COMPONENTS NECESSARY FOR TIE-IN SHALL BE PRE-CHLORINATED AND PRE-FLUSHED IN THE PRESENCE OF AN ENVIRONMENTAL UTILITIES DEPARTMENT INSPECTOR.

UPON COMPLETION OF THE CONDITIONS NOTED ABOVE AND WITH THE APPROVAL OF THE EUD INSPECTOR, CONNECTION TO THE CITY SYSTEM MAY BE MADE. THE EUD INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF WORK.

Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

RECYCLED WATER CONSTRUCTION WATER

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

RW-3

NOTES:

NO WATER IS TO BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

PIPE SHALL BE DUCTILE IRON.

SPOOLS UPSTREAM & DOWNSTREAM OF METER SHALL BE 5X THE PIPE DIAMETER

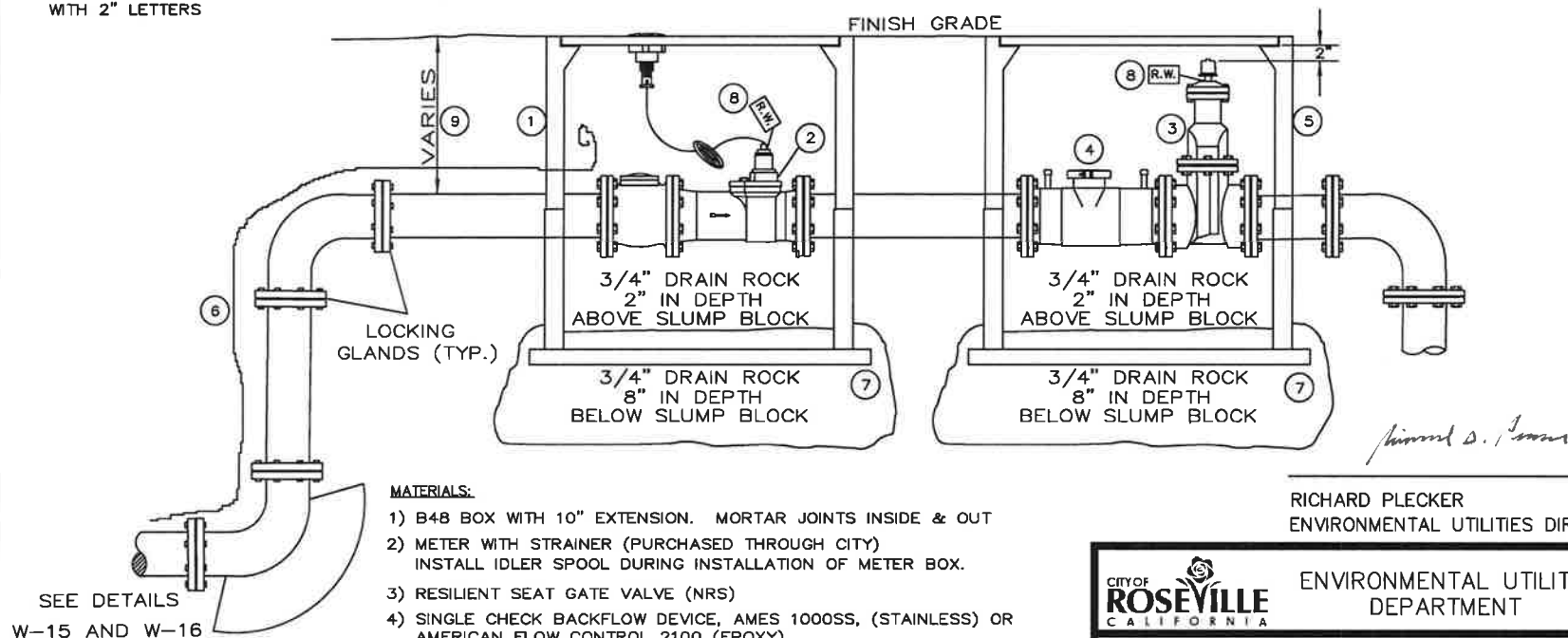
INSTALL CONCRETE BLOCKING UNDER ENTIRE PERIMETER OF UTILITY BOX.

PIPE AND FITTINGS SHALL BE WRAPPED 8 MIL POLYETHYLENE

USE CITY APPROVED RESTRAINED JOINTS OR FLANGED SPOOLS

WATER METER SHALL BE PURCHASED THROUGH THE CITY. PURCHASE INCLUDES INSTALLATION.

BOXES SHALL HAVE METAL LIDS MARKED "RECYCLED WATER" WITH 2" LETTERS



MATERIALS:

- 1) B48 BOX WITH 10" EXTENSION. MORTAR JOINTS INSIDE & OUT
- 2) METER WITH STRAINER (PURCHASED THROUGH CITY)
INSTALL IDLER SPOOL DURING INSTALLATION OF METER BOX.
- 3) RESILIENT SEAT GATE VALVE (NRS)
- 4) SINGLE CHECK BACKFLOW DEVICE, AMES 1000SS, (STAINLESS) OR
AMERICAN FLOW CONTROL 2100 (EPOXY)
- 5) B48 BOX WITH 10" EXTENSION. MORTAR JOINTS INSIDE & OUT
- 6) CITY APPROVED TRACING WIRE
- 7) INSTALL CONCRETE BLOCKING (4" X 4" X 15 1/2")
SLUMP BLOCK UNDER ENTIRE PERIMETER OF BOXES
- 8) RECYCLED WATER ID TAG
- 9) 3"-6" PIPE SHALL BE 16" MIN. TO 20" MAX.
8" OR 10" PIPE SHALL BE 22" MIN. TO 26" MAX.

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

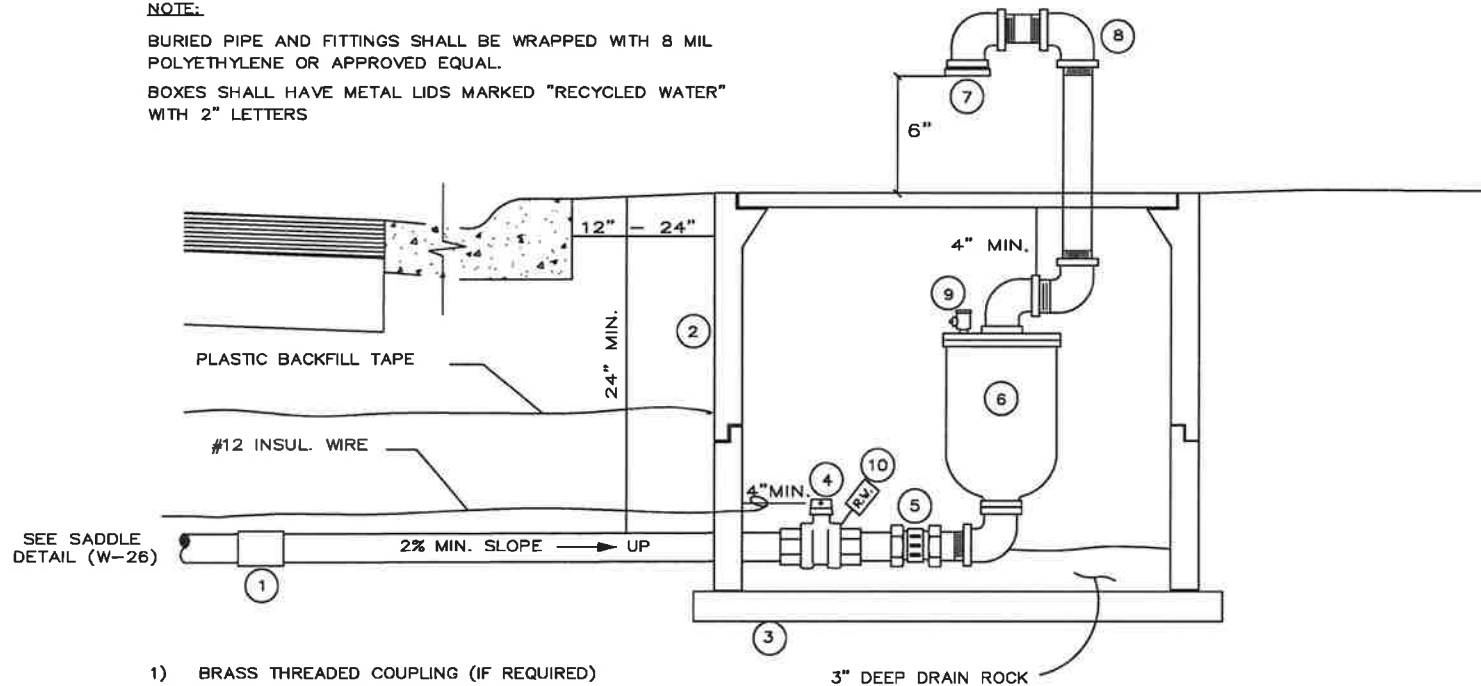
**RECYCLED WATER
3" & LARGER SERVICE**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

RW-4

NOTE:

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE OR APPROVED EQUAL.
BOXES SHALL HAVE METAL LIDS MARKED "RECYCLED WATER" WITH 2" LETTERS



- 1) BRASS THREADED COUPLING (IF REQUIRED)
- 2) B-40 UTILITY BOX W/TRAFFIC COVER MARKED, "RECYCLED WATER ARV". IF EXTENSION IS REQ. MORTAR EXTENSION JOINT INSIDE & OUT.
- 3) CONCRETE BLOCKING (4X4X15 1/2" SOLID SLUMP BLOCK UNDER ENTIRE PERIMETER OF UTILITY BOX.
- 4) CURB STOP
- 5) BRASS UNION
- 6) COMBINATION AIR / VACUUM VALVE CRISPIN UL-20, APCO 145C OR APPROVED EQUAL.
- 7) BRASS CAP WITH 9 DRILLED 1/16" HOLES OR APPROVED EQUAL.
- 8) USE GALVANIZED PIPE AND FITTINGS ABOVE GROUND
- 9) 1/4" TEST COCK
- 10) RECYCLED WATER I.D. TAG

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF
ROSEVILLE
CALIFORNIA

ENVIRONMENTAL UTILITIES
DEPARTMENT

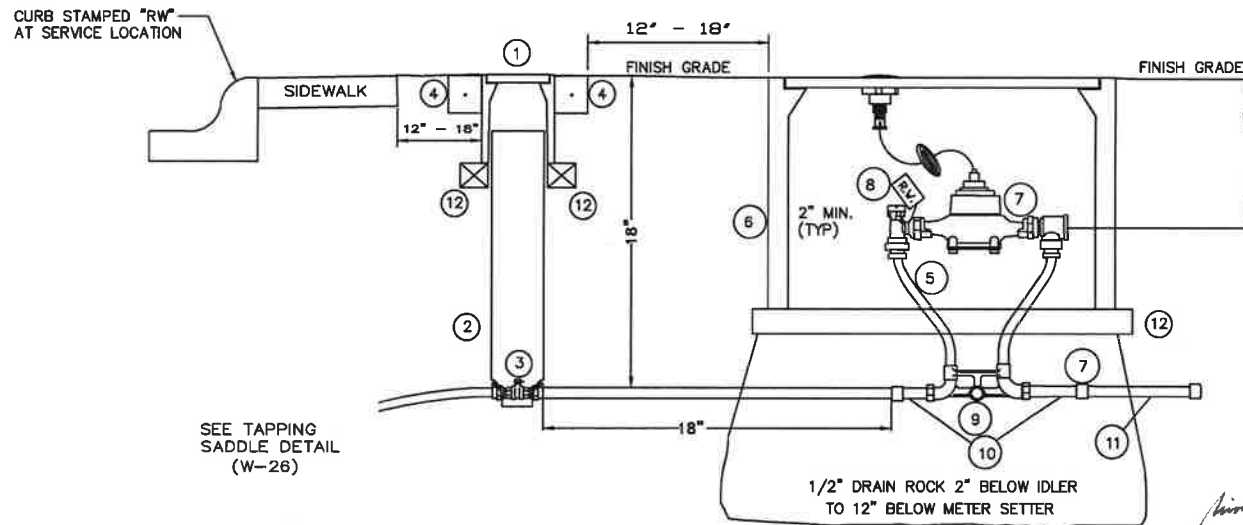
**1" AND 2" AIR RELEASE
VALVE ASSEMBLY**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

RW-5

- 1) CONCRETE VALVE BOX (G-5 PER DETAIL W-16)
BOX LID SHALL BE MARKED "RECYCLED WATER"
- 2) 6" CONTINUOUS RISER (NOTCHED OVER
PIPE AT BASE)
- 3) CURB STOP (COMPRESSION X FIPT)
- 4) CONCRETE COLLAR (SEE DETAIL W-16)
- 5) METER SETTER WITH IDLER
- 6) N-16 UTILITY BOX OR APPROVED EQUAL

- 7) METER (PURCHASED THROUGH CITY)
- 8) RECYCLED WATER I.D. TAG
- 9) SCH. 40 PVC THROUGH PIPE EYE
- 10) METER SPUD
- 11) 18" BRASS NIPPLE WITH END CAP
- 12) INSTALL CONCRETE BLOCKING
(4" X 4" X 15 1/2")
UNDER ENTIRE PERIMETER OF BOXES



NOTES:

ALL FITTINGS AND PIPING SHALL BE BRASS BEGINNING AT THE CURB STOP

WATER METERS SHALL BE PURCHASED THROUGH THE CITY
PURCHASE INCLUDES INSTALLATION.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL
POLYETHYLENE OR APPROVED EQUAL.

BOXES SHALL HAVE METAL LIDS AND WILL BE MARKED
"RECYCLED WATER" WITH 2" LETTERS

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF
ROSEVILLE
CALIFORNIA

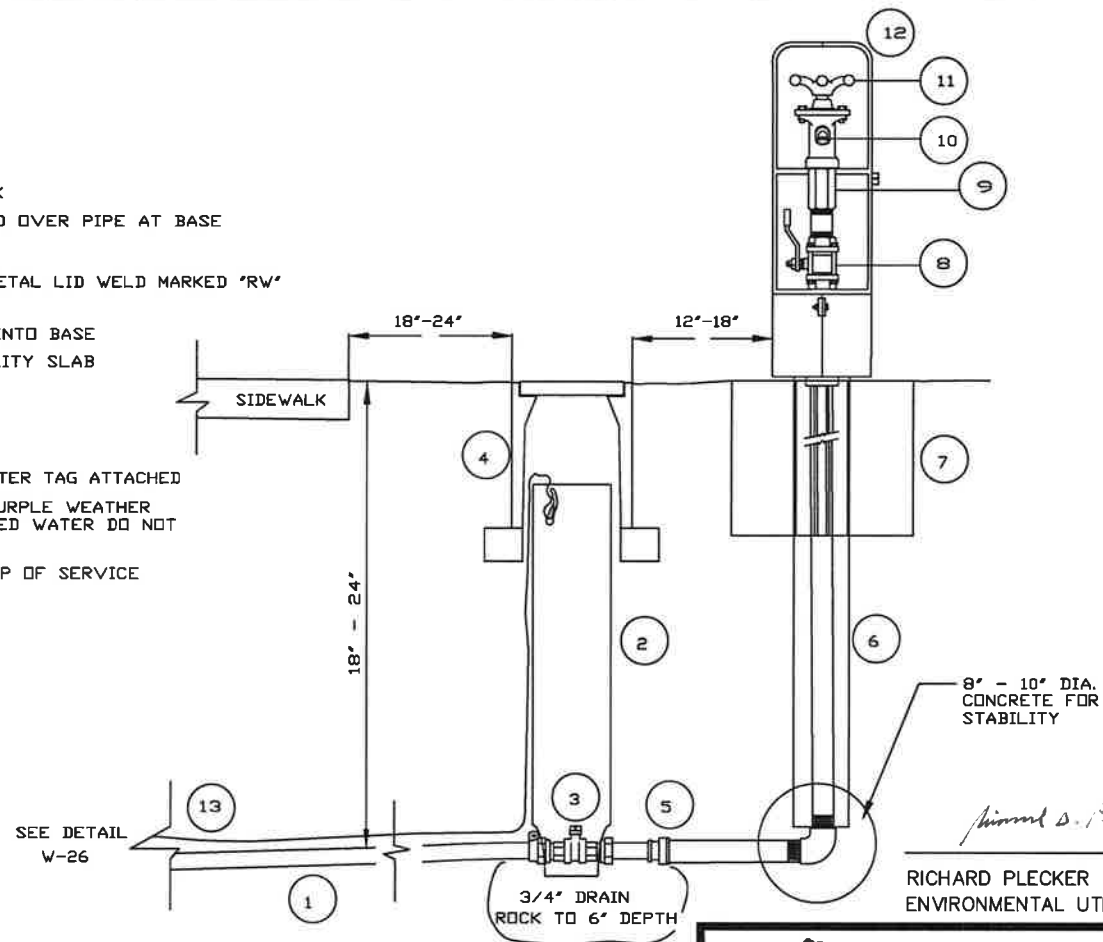
ENVIRONMENTAL UTILITIES
DEPARTMENT

3/4" & 1"
SERVICE LINE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

RW-6

- 1) 3/4" COPPER SERVICE LINE - TYPE K
- 2) 6" DIA. SCHEDULE 40 RISER NOTCHED OVER PIPE AT BASE
- 3) CURB STOP
- 4) CHRISTY G-5 TRAFFIC BOX W/ ALL METAL LID WELD MARKED "RW"
- 5) 3/4" TO 1" REDUCER ALL BRASS
- 6) 4" LIGHT WELL STEEL PIPE BOLTED INTO BASE
- 7) 12" BY 12" BY 12" CONCRETE STABILITY SLAB
- 8) 1" BRASS BALL VALVE
- 9) HYDRANT STYLE BRASS VALVE
- 10) UNTHREADED BRASS NOZZLE
- 11) HANDLE OPERATOR WITH RECYCLED WATER TAG ATTACHED
- 12) ALUMINUM CAST BOX PAINTED WITH PURPLE WEATHER PROOF PAINT. STENCIL MARK "RECYCLED WATER DO NOT DRINK" ON MINIMUM OF (2) SIDES
- 13) LAY RECYCLED WATER ID TAPE ON TOP OF SERVICE



CITY OF
ROSEVILLE
CALIFORNIA

RECYCLED WATER #88-V ECLIPSE
SAMPLING STATION FOR WARM CLIMATES

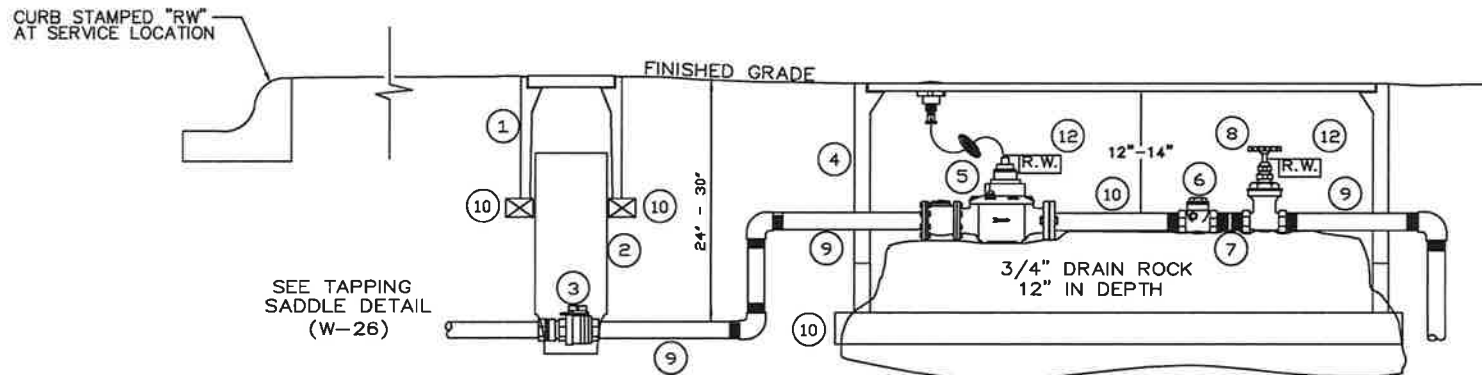
SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

RW-7

INSTALL CONCRETE BLOCKING (4' X 4' SOLID SLUMP BLOCK) UNDER ENTIRE PERIMETER OF THE BOX.

ALL PIPING FROM REDUCER THROUGH
TEST STATION TO BE 1" BRASS

ALL FITTINGS TO BE BRASS



NOTES:

NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

CONTRACTOR SHALL LAY 3/4\" DRAIN ROCK TO 12\" DEPTH UNDER CONCRETE BLOCKING AT METER

WATER METERS SHALL BE PURCHASED THROUGH THE CITY. PURCHASE INCLUDES INSTALLATION.

THERE SHALL BE NO FLOW ALTERING DEVICES 5X THE PIPE DIAMETER UPSTREAM AND DOWNSTREAM OF THE METER.

CURBSTOP SHALL BE BETWEEN 12\" & 18\" OF EASEMENT.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE OR APPROVED EQUAL.

SINGLE CHECK BACKFLOWS: WATTS CVY (BRONZE), WATTS WCV -2 (BRASS W/RUBBER DISK SEALS) WATTS 806 (316 STAINLESS STL.), MATCO/NORCA MODEL 530 (BRONZE)

BOXES SHALL HAVE METAL LIDS MARKED \"RECYCLED WATER\" WITH 2\" LETTERS.

- 1) G-5 VALVE BOX (PER DETAIL W-16)
- 2) 6\" CONTINUOUS RISER (NOTCHED OVER PIPE AT BASE)
- 3) CURB STOP COMPRESSION X FIPT
- 4) B-48 UTILITY BOX W/ EXTENSION (MORTAR JOINTS INSIDE & OUT)
- 5) TURBO METER WITH STRAINER (PURCHASED THROUGH CITY). INSTALL IDLER SPOOL DURING INSTALLATION OF METER BOX.
- 6) SINGLE CHECK (SEE NOTES)

- 7) 3\" BRASS NIPPLE
- 8) ALL BRASS GATE VALVE (FIPT X FIPT)
- 9) 12\" BRASS NIPPLE
- 10) 6\" BRASS NIPPLE
- 11) INSTALL CONCRETE BLOCKING (4\" X 4\" 15 1/2\") SOLID SLUMP BLOCK UNDER ENTIRE PERIMETER OF UTILITY BOXES
- 12) RECYCLED WATER ID TAG

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

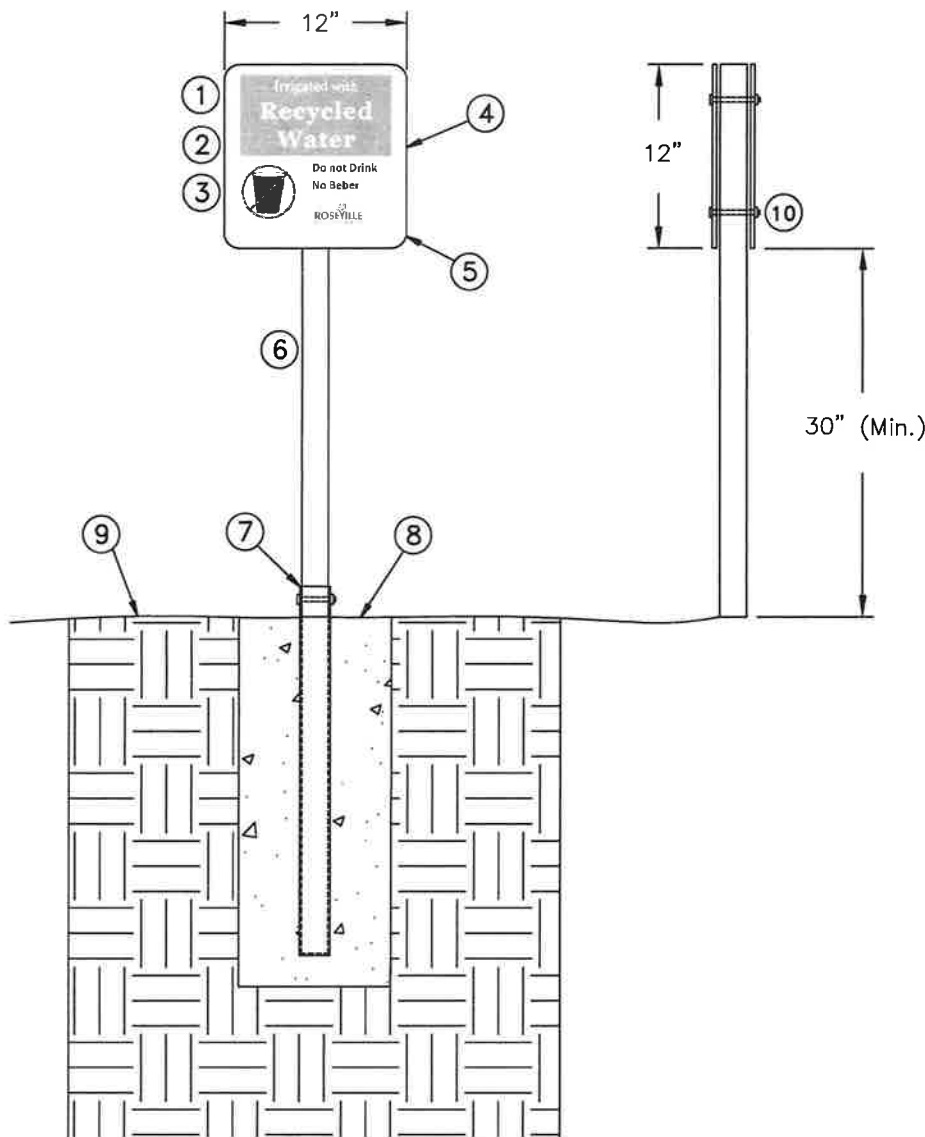


ENVIRONMENTAL UTILITIES
DEPARTMENT

1 1/2\" & 2\"
RECYCLED WATER SERVICE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

RW-8

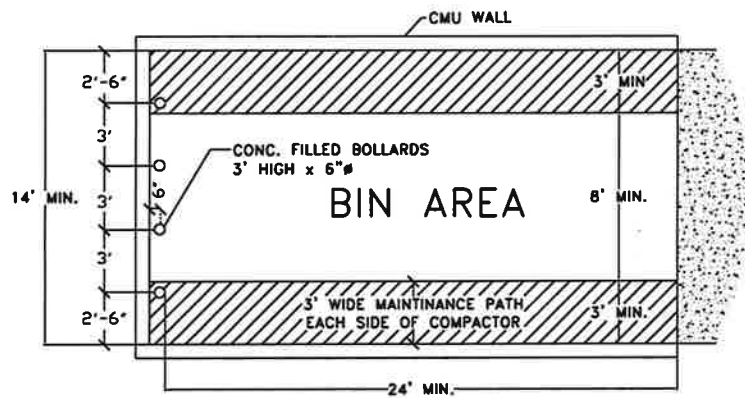


- 1) SIGN: BLANKS TO BE ALUMINUM SHEET ALLOY 0.80 GAUGE CORNERS TO HAVE 1" RADIUS ARC. SIGN TO BE PAINTED AS SHOWN WITH REFLECTIVE WHITE BACK. SIGN TO BE DOUBLE SIDED.
- 2) THE PURPLE AREA AS SHOWN SHALL BE PER THE FOLLOWING:
ALL LETTERS WHITE, FONT TYPE GEORGIA, "Irrigated with" SHALL BE 72 PT AND "Recycled Water" SHALL BE 120 PT. BOLD MATCH CASE.
- 3) INTERNATIONAL "DO NOT DRINK" SYMBOL: BLACK CUP 3" IN HT. SYMBOL WITH RED CIRCLE 3 1/2" DIA. AND SLASH.
- 4) THE BLACK LETTERING AS SHOWN SHALL BE PER THE FOLLOWING:
ALL LETTERS BLACK, FONT TYPE ARIAL AND 60 PT. BOLD, MATCH CASE.
- 5) CURRENT APPROVED CITY OF ROSEVILLE LOGO PLACED AS SHOWN.
- 6) 1 3/4" SQUARE PERFORATED STEEL POST POWDER COATED WHITE.
- 7) 2" SQUARE GALV. STEEL ANCHOR SLEEVE MIN. 24" DEEP. SET SLEEVE 2" ABOVE FINISH GRADE AND PROVIDE HOLES FOR THE 5/16" HEX HEAD CAP BOLT.
- 8) 10" DIAMETER BY 24" DEEP CONCRETE FOOTING.
- 9) FINISHED GRADE.
- 10) 5/16" GALV. STL. HEX HEAD CAP BOLTS WITH NUTS
- 11) MOUNTING HARDWARE SHALL NOT OBSTRUCT THE VIEW OF ANY LETTERING LOGOS, OR SYMBOLS.
- 12) FINISHED SIGNS MAY BE PURCHASED FROM ENVIRONMENTAL UTILITIES.

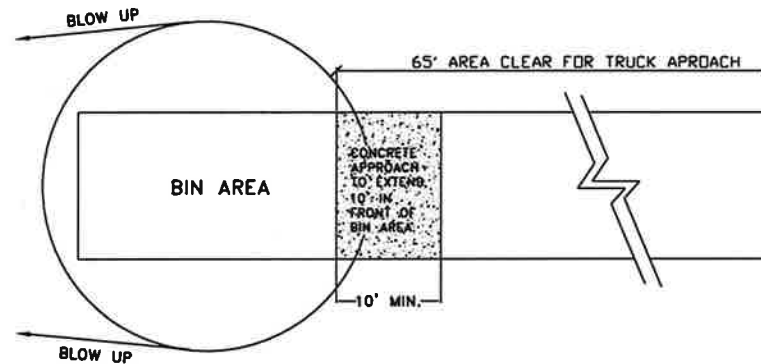
Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

	ENVIRONMENTAL UTILITIES DEPARTMENT
RECYCLED WATER USE SIGNAGE	
SCALE: NONE REVISED: JANUARY 2016 DRAWN BY: R. VAN NESS APPROVED BY: RICHARD PLECKER	
RW-9	



PLAN
COMPACTOR BIN

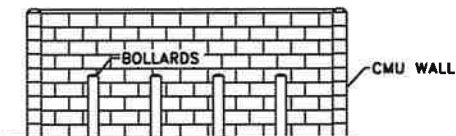


PLAN
BIN & APPROACH

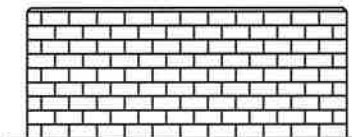
NOTES:

1. APPROACH SHALL BE 6" THICK REINFORCED CONCRETE SLAB ON GRADE. IT SHALL BE PAINTED "NO PARKING" IN 12" LETTERS AND STRIPED WITH 4" DIAGONAL LINES.
 2. THE EXTERIOR FINISH AND COLOR OF THE ENCLOSURE SHALL MATCH THE BUILDING PER THE DESIGN REVIEW PERMIT EXHIBITS AND/OR CONDITIONS OF APPROVAL
- THE APPROVED FINISH (PER THE ARCHITECT) SHALL BE:

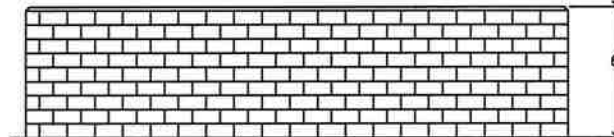
THE APPROVED COLOR (PER THE ARCHITECT) SHALL BE:



FRONT



BACK



RIGHT SIDE

ELEVATIONS

Derrick Whitehead
DERRICK WHITEHEAD
ENVIRONMENTAL UTILITIES DIRECTOR

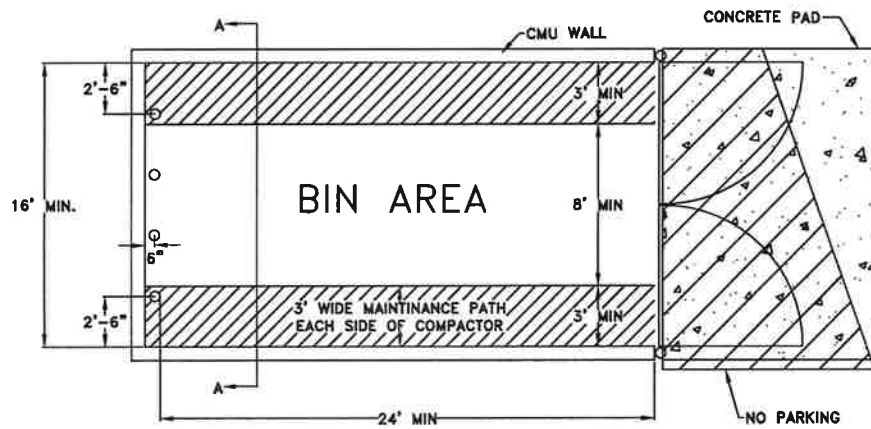


ENVIRONMENTAL UTILITIES
DEPARTMENT

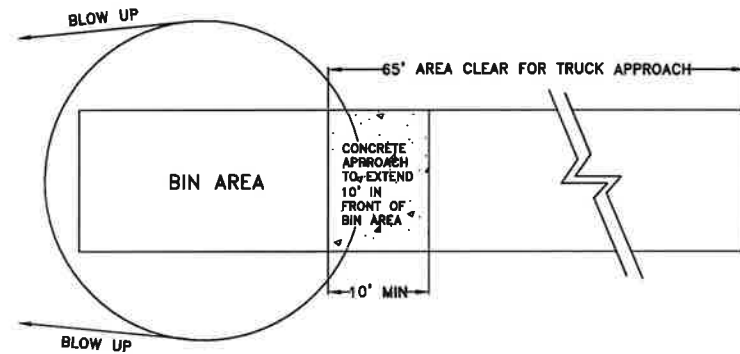
COMPACTOR ENCLOSURE

SCALE: NONE
REVISED: JANUARY 2010
DRAWN BY: R. VAN NESS
APPROVED BY: D. WHITEHEAD

SW-2



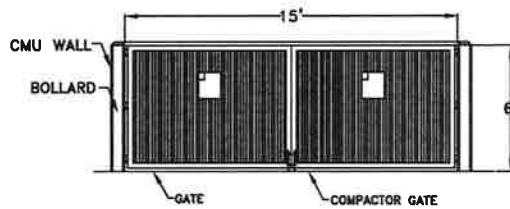
PLAN
COMPACTOR BIN



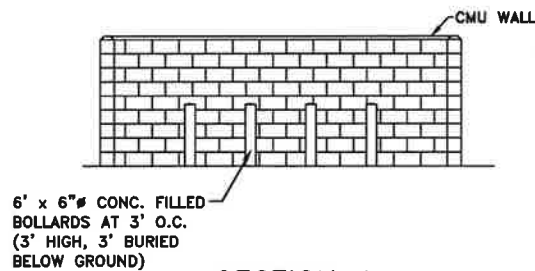
PLAN
BIN & APPROACH

NOTES:

1. APPROACH SHALL BE 6" THICK REINFORCED CONCRETE SLAB ON GRADE. IT SHALL BE PAINTED "NO PARKING" IN 12" LETTERS AND STRIPED WITH 4" DIAGONAL LINES.
2. THE EXTERIOR FINISH AND COLOR OF THE ENCLOSURE SHALL MATCH THE BUILDING PER THE DESIGN REVIEW PERMIT EXHIBITS AND/OR CONDITIONS OF APPROVAL



FRONT



SECTION A
BOLLARD CONFIGURATION

ELEVATIONS

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

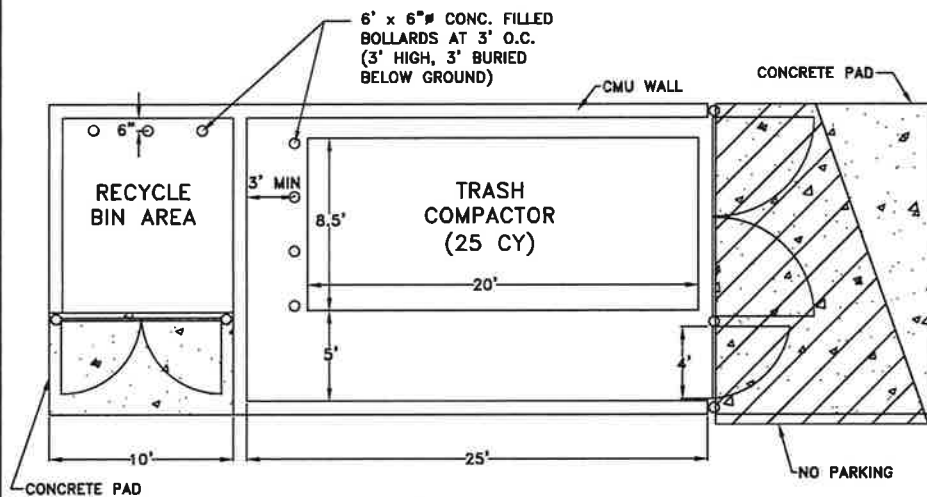
CITY OF
ROSEVILLE
CALIFORNIA

ENVIRONMENTAL UTILITIES
DEPARTMENT

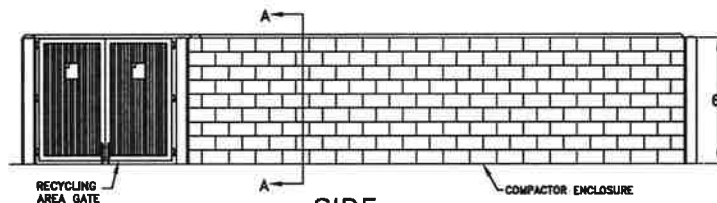
**COMMERCIAL
COMPACTOR ENCLOSURE**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

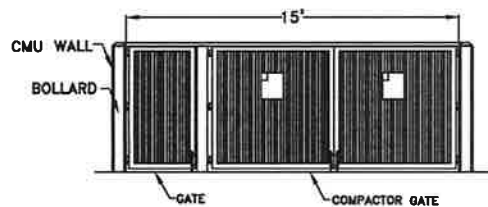
SW-3



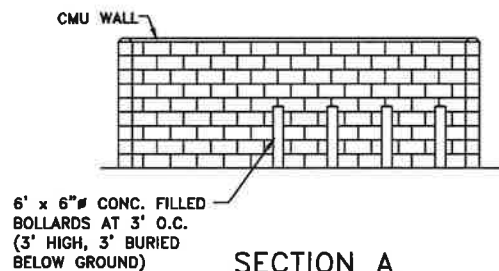
PLAN
COMPACTOR BIN



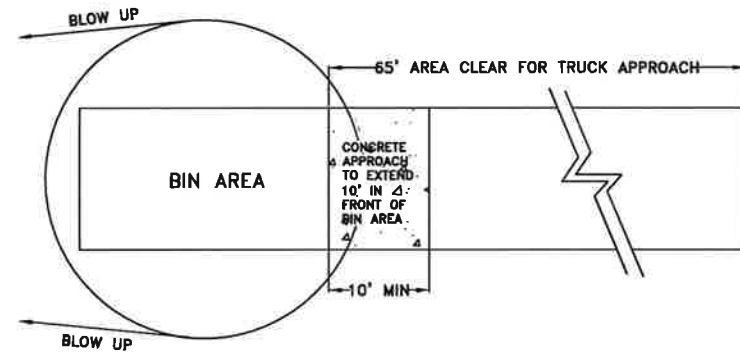
SIDE



FRONT



SECTION A
BOLLARD CONFIGURATION
(TRASH COMPACTOR)



PLAN
BIN & APPROACH

NOTES:

1. APPROACH SHALL BE 6" THICK REINFORCED CONCRETE SLAB ON GRADE. IT SHALL BE PAINTED "NO PARKING" IN 12" LETTERS AND STRIPED WITH 4" DIAGONAL LINES.
2. THE EXTERIOR FINISH AND COLOR OF THE ENCLOSURE SHALL MATCH THE BUILDING PER THE DESIGN REVIEW PERMIT EXHIBITS AND/OR CONDITIONS OF APPROVAL
3. IF GREASE/TALLOW BIN IS REQUIRED, SEE SW-1 AND SW-2 FOR DETAILS

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

**RESIDENTIAL/COMMERCIAL
COMPACTOR ENCLOSURE**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SW-4



COUNCIL COMMUNICATION

CC #: 7472
File #: 0900-02

Title: Republican Alley 12" Water Main Slip Line Project- Notice of Completion
Contact: Edward Winston 774-5566 ewinston@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.10.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council accept the Republican Alley 12" Water Main Slip Line Project (#103001) as complete and authorize the Director of Environmental Utilities to execute the Notice of Completion (Attachment A).

BACKGROUND

A construction contract was awarded to Caggiano General Engineering, Inc. of El Dorado Hills, California on August 19, 2015 for the Republican Alley 12" Water Main Slip Line Project. The limits of the project are shown in Exhibit A of the Notice of Completion form (Attachment A). The City Environmental Utilities Department finished final inspection of the project and found the work to be completed in accordance with the improvement plans and specifications and is now ready for acceptance. No stop payment notices or preliminary notices were filed with the City Clerk during the project. In accordance with the specifications and Faithful Performance bond, the contractor shall guarantee the installation of all improvements for a period of twelve months from the date of Council acceptance.

FISCAL IMPACT

A construction contract for \$523,525 was awarded to Caggiano General Engineering, Inc. for the Republican Alley 12" Water Main Slip Line Project. Council also approved an allowance to pay construction contract change orders of up to 10% (\$52,352.50) of the award price. The total amount of change orders occurring throughout the project totaled \$51,616.57 (9.86%) resulting in a total contract price of \$575,141.57. Change order costs were approved to provide additional 8" water service stubs off the new 12" water main that improve system flexibility and cover unforeseen construction expenses encountered by the contractor in the field. Additional unforeseen costs included additional concrete removal and replacement, 12" water main extension to Douglas Blvd., a customized 16" Ameron water line tie-in near Pratt Street, and the installation of safety bollards near the relocated air release valve. The project was funded under the Water Rehabilitation Fund.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not applicable.

ENVIRONMENTAL REVIEW

The project involved the reconstruction of existing structures and facilities. This activity is categorically exempt from CEQA as a Class 2 Exemption (State CEQA Guidelines Section 15302). The Exemption has been prepared and no further CEQA action is required.

Respectfully Submitted,

Edward Winston, Associate Engineer

Richard Plecker, Environmental Utilities Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-68

NOC - Republican Alley 12" Water Main Slip Line

Exhibit "A"

Performance Bond

RESOLUTION NO. 16-68

ACCEPTING THE PUBLIC WORK KNOWN AS THE REPUBLICAN ALLEY 12" WATER
MAIN SLIP LINE PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND
AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID
NOTICE ON BEHALF OF THE CITY OF ROSEVILLE

BE IT RESOLVED by the City Council of the City of Roseville as follows:

1. The "Notice of Completion" on file in the City Clerk's Department relative to that public work known as the Republican Alley 12" Water Main Slip Line Project has been approved and the public work accepted.
2. The Environmental Utilities Director is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of
_____, 20____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

AFTER RECORDING RETURN TO:
CITY CLERK
311 VERNON STREET
ROSEVILLE, CA 95678

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work known as Republican Alley 12" Water Main Slip Line Project, was completed and accepted by the City of Roseville on _____. The location is indicated on the attached map, marked as Exhibit "A" and incorporated herein by this reference.

The general contractor on said project was Caggiano General Engineering, Inc.

The surety on said project was American Contractors Indemnity Company.

ATTEST:

RICHARD D. PLECKER
Director of Environmental Utilities
City of Roseville

SONIA OROZCO, CITY CLERK
STATE OF CALIFORNIA)
COUNTY OF PLACER)

I, Richard D. Plecker, being first duly sworn, depose and say: I am the Director of Environmental Utilities of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Notice of Completion and know its contents and the facts stated therein are true.

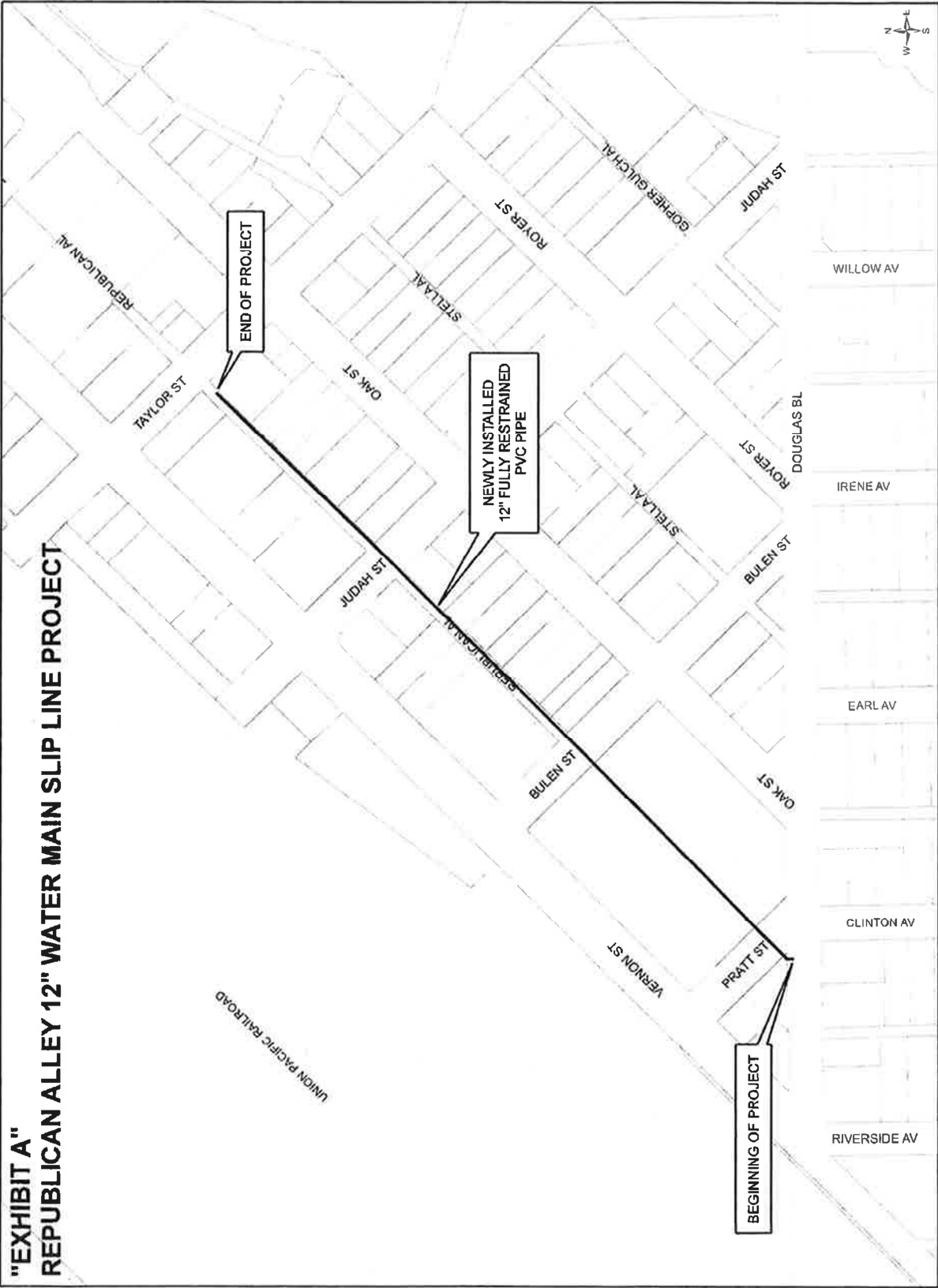
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

RICHARD D. PLECKER
Director of Environmental Utilities
City of Roseville

State of California)
County of Placer)

Subscribed and sworn to (or affirmed) before me on this ____ day of _____, 2016,
by _____ proved to me on the basis of satisfactory evidence to be the person(s)
who appeared before me.

Notary Public in and for said County and State





COUNCIL COMMUNICATION

CC #: 7490
File #: 0800-03

Title: Douglas Substation Stormwater Permitting and Inspections - Service Agreement Amendment
Contact: Chris Porter 774-5615 cporter@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.11.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council adopt a resolution authorizing the City Manager to execute the attached amendment to the Service Agreement S1504332 with Wallace-Kuhl and Associates, for continued storm water monitoring activities at Douglas Substation. The amendment will increase the agreement by \$15,000.00 for a total of \$33,987.50.

BACKGROUND

Roseville Electric Utility initiated a capital improvement project to rebuild and rehabilitate the Douglas Substation in FY2013/14 to maintain the high reliability of the electric system. The first phase of construction consists of replacing the existing 12kV outdoor circuit breakers and open air 12kV bus with modern metal-clad switchgear. The existing breakers are over 40 years old and their degradation in performance requires their replacement.

Construction activities began in January 2015. As part of the construction, a Stormwater Pollution Prevention Plan (SWPPP) was developed and a Construction General Permit was obtained from the State Water Resources Control Board. A service agreement was established with Wallace-Kuhl and Associates to prepare the SWPPP and to perform all required inspections to maintain compliance with the SWPPP and the Construction General Permit.

Delays due to unforeseen technical difficulties extended the construction into summer 2015. The hot temperatures experienced during summer months create the largest amount of demand on the electric system, so the decision was made to postpone construction activities until the temperatures decreased in October in order to maintain electric system reliability.

To maintain compliance with the SWPPP and the Construction General Permit, SWPPP monitoring activities must continue until the entire project is complete. The additional funds are required to maintain these monitoring activities until all construction activities are complete by the end of winter 2016.

FISCAL IMPACT

The Service Agreement will increase by \$15,000.00, from \$18,987.50 to \$33,987.50. Funding is available in the Douglas Substation Rehabilitation Capital Improvement Project in FY2015/16.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not applicable.

ENVIRONMENTAL REVIEW

The Service Agreement amendment with Wallace-Kuhl and Associates is not considered a "project" as defined by the California Environmental Quality Act (CEQA) (CEQA Guidelines §15378). Consequently no CEQA action is required.

Respectfully Submitted,

Chris Porter, Senior Power Engineer

Michelle Bertolino, Electric Utility Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-73

S1504332 Service Agreement Amendment

RESOLUTION NO. 16-73

APPROVING A FIRST AMENDMENT TO SERVICE AGREEMENT
BETWEEN CITY OF ROSEVILLE AND WALLACE-KUHL & ASSOCIATES, AND
AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF
ROSEVILLE

WHEREAS, a first amendment to service agreement (Service Agreement No. S1504332) between City of Roseville and Wallace-Kuhl & Associates, has been prepared and reviewed by the Council;

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment to service agreement is approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



PURCHASING
CITY OF ROSEVILLE

2005 HILLTOP CIRCLE, ROSEVILLE, CA 95747
(916) 774-5720 • TDD (916) 774-5220 • FAX (916) 774-5736

**SERVICE AGREEMENT
AMENDMENT**

SERVICE AGREEMENT No: S1504332
AMENDMENT No.: 01

SERVICE LOCATION: CITY OF ROSEVILLE
AS DIRECTED

Contractor No.: V09312

SUBMIT ALL INVOICES TO:
CITY OF ROSEVILLE
Finance Department
311 Vernon Street
Roseville, CA 95678

Contractor License No.: _____

Business License No.: _____

Telephone No.: 916-372-1434 Fax: 916-372-2565

Department: ELECTRIC

Contractor: WALLACE-KUHL & ASSOCIATES
3050 INDUSTRIAL BLVD
WEST SACRAMENTO, CA 95691

Acct. Code: 40002-6130/144001-30

Buyer: PETER BREVIK
Phone: 916-774-5724

Service Agreement Number S1504332 ("Agreement"), which was executed on 10/28/14 and last amended on N/A is hereby modified as follows:

Select all provisions that apply:

- ☐ The term of the Agreement is extended for an additional _____ (days/months/years) and the expiration date of the Agreement is changed from _____ to _____.
- ☐ The term of the Agreement is reduced by _____ (days/months/years) and the expiration date of the Agreement is changed from _____ to _____.
- ☒ The Total Cost of Service payable under this Agreement is modified from \$18,987.50 to \$33,987.50. The purpose of this modification is: Continue to perform Stormwater Pollution Prevention Plan (SWPPP), permitting and inspections to the Douglas Substation site.
- ☐ City desires to increase the original scope of work under the Agreement and Contractor is willing and able to provide the following additional services: _____. The Total Cost of Service payable under this Agreement is hereby modified from \$ _____ to \$ _____ as a result of the increase in the original scope of work under the Agreement.
- ☐ The original scope of work under the Agreement is hereby decreased and the following services have been removed from the original Agreement _____. The purpose of this modification is: _____.
- ☐ Provision _____ on the reverse side of the Agreement is amended to read as follows: _____.
- ☐ The terms of payment under this Agreement have been modified as follows: _____.

All other provisions of the Agreement shall remain unchanged and in full force and effect.

CONTRACTOR: *RIVER CITY GEOPROFESSIONALS INC.,*
aka WALLACE-KUHL ASSOCIATES

By: *DAVID R. GIGS, JR.*

Title: *President*

By: *ANDREW S. WALLACE*

Title: *CFO/COO*

CITY OF ROSEVILLE,
A MUNICIPAL CORPORATION:

By: _____
Rob Jensen
City Manager

Distribution: 1- Purchasing, 1 - Contractor, 1 - Originating Dept

1. To the fullest extent allowed by law, Consultant shall defend, indemnify, and save and hold harmless City, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of Consultant's willful misconduct or negligent act or omission while engaged in the performance of obligations or exercise of rights created by this Agreement, except those matters arising from City's sole negligence or willful misconduct. The parties intend that this provision shall be broadly construed. Consultant's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.
2. Consultant is an independent contractor, and shall not be considered an officer, agent or employee of the City.
3. Without the written consent of the City, this Agreement is not assignable by Consultant either in whole or in part.
4. Time is of the essence of this Agreement.
5. At any time during the term of this Agreement, the City has the right to terminate this Agreement provided Consultant is given a thirty (30) day notice.
6. This Agreement may only be amended or modified in writing. It is integrated and contains the complete understanding of the parties.
7. All equipment, supplies and services sold to the City of Roseville shall conform to the general safety orders of the State of California.
8. Unless notified to the contrary, in writing, the City assumes that the Consultant has accepted the work in accordance with the plans and specifications (if any) and agrees to do the work in compliance with this Agreement.
9. All fair employment practices must be adhered to.
- 10a. Unless otherwise specified, the Consultant shall maintain the policies of insurance outlined in Attachment A, incorporated herein by this reference, in full force and effect during the term of this Agreement. The City of Roseville retains sole discretion in determining the types and proper levels of insurance coverage.
- 10b. Form. Consultant shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.
- 10c. Additional Insureds. Consultant shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insureds for each type of coverage, except for Workers' Compensation and Professional Liability. Such insurance shall specifically cover the contractual liability of Consultant. The additional insured coverage under the Consultant's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from City's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office ("ISO") CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.
- 10d. Cancellation/Modification. Consultant shall provide ten (10) days written notice to City prior to cancellation or modification of any insurance required by this Agreement.
- 10e. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of City (if agreed to in a written contract) before City's own insurance shall be called upon to protect it as a named insured.
- 10f. Subconsultants. Consultant agrees to include in its contracts with all subconsultants the same requirements and provisions of this Agreement, including the indemnity and insurance requirements, to the extent they apply to the scope of the subconsultant's work. Furthermore, Consultant shall require its subconsultants to agree to be bound to Consultant and City in the same manner and to the same extent as Consultant is bound to City under this Agreement. Additionally, Consultant shall obligate its subconsultants to comply with these same provisions with respect to any tertiary subconsultant, regardless of tier. A copy of City's indemnity and insurance provisions will be furnished to the subconsultant or tertiary subconsultant upon request.
- 10g. Self-Insured Retentions. All self-insured retentions ("SIR") must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
- 10h. Waiver of Subrogation. Consultant hereby agrees to waive subrogation which any insurer of Consultant may acquire from Consultant by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of City, its officers, agents, employees and volunteers for all work performed by Consultant, its employees, agents and subconsultants.
- 10i. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Consultant of liability in excess of such coverage, nor shall it preclude City from taking such other actions as are available to it under any other provisions of this Agreement or law.
11. Consultant shall comply with all federal, state and local laws and ordinances as may be applicable to the performance of services under this Agreement. Failure to comply with local ordinances may result in monetary fines and cancellation of this Agreement.
12. In the event that the terms of any attachment or exhibit conflict with any terms of this Service Agreement, the terms of this Service Agreement shall control.
13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together

shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof.

14. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorneys' fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.
15. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.
16. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.
17. For purposes of this Agreement, the terms "Contractor" and "Consultant" are used interchangeably.
18. If the project referenced on this service agreement is a Public Works project, then the following shall apply. No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this agreement, Contractor and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

City reserves the right to withhold any payments to Consultant in the event of noncompliance with insurance requirements or if required by law.

ATTACHMENT A

HUMAN RESOURCES/RISK MANAGEMENT DIVISION INSURANCE REQUIREMENTS – SERVICE AGREEMENT PROFESSIONAL - CONSULTANT

Required Coverage:

- General Liability: \$1,000,000 per occurrence
\$2,000,000 aggregate
Personal Injury:
\$1,000,000 per occurrence
\$2,000,000 aggregate
- Automobile Liability: \$1,000,000 combined single limit
- Workers' Compensation: Statutory
- Professional Liability: \$1,000,000 per claim

- *Policies must be primary and non-contributory
- *Policies must contain a waiver of subrogation
- *A 10 day notice of cancellation must be provided
- *The policies may not contain language which prohibits additional insured or other insurers from satisfying the self-insured retention or deductible
- *All Self Insured Retentions must be listed on the certificate

Required Documentation:

- A certificate(s) of insurance listing the required coverage and naming the City of Roseville as Certificate Holder. The Certificate should be addressed to:

The City of Roseville
Insurance Compliance
P.O. Box 12010-R1, Hemet, CA 92546-8010

- Additional Insured Endorsement- General Liability policy: CG 20 10 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsement shall cover the City of Roseville, its officers, agents, employees and volunteers as additional insured
- Waiver of Subrogation Endorsements
- Primary and Non-Contributory Coverage Endorsement – CG 20 01 04 13 or an equivalent

***NOTE: statements on the certificate of insurance in lieu of the documentation required above will not be accepted.**

Questions concerning any of the above should be directed to Ebix Customer Service
Phone: 951-652-4239 /fax 770-325-5727 or email: Roseville@ebix.com



COUNCIL COMMUNICATION

CC #: 7491

File #: 0900-04-02

Title: Atlantic Street/Eureka Road/Westbound I-80 On-Ramp Widening Project - Cooperative Agreement

Contact: Hossein Naghibzadeh 746-1300 hnaghibzadeh@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.12.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council authorize the City Manager to execute the Cooperative Agreement and the Closure Statement between the City of Roseville (City) and The State of California Department of Transportation (Caltrans) for the widening of the Atlantic Street/Eureka Road/Westbound I-80 On-Ramp Project.

BACKGROUND

On January 6, 2016 the City Council awarded a Professional Services Agreement to Quincy Engineering for the preliminary engineering and environmental documentation required for the widening of the westbound Atlantic/Eureka/I-80 on-ramp. The widening will increase the number of lanes on the on-ramp from one to three lanes (one HOV and two mixed flow lanes). The work is all within the State's right of way and as such, the attached cooperative agreement between the City and Caltrans must be executed before the design work can begin. The agreement identifies each agency's roles and responsibilities in completing the tasks listed in the cooperative agreement. The agreement also includes a Closure Statement which needs to be signed by both parties to verify the completion of all obligations included in the agreement (sample attached). Below is a summary of the City's responsibilities as outlined in the cooperative agreement:

- City is the sponsor of this project from inception to the completion of the Project Approval and Environmental Document (PA&ED);
- City will only cover the cost of preparing the PA&ED, Caltrans will secure other funding sources for completion of the final design and construction;
- City will ensure that PA&ED documents are prepared per Caltrans policies and guidelines; and
- City will provide the approved PA&ED to Caltrans once it has been completed.

Upon completion of this phase, Caltrans will begin the final design phase which is expected to be

completed by December 2017. Construction is tentatively scheduled to begin in Summer of 2018.

FISCAL IMPACT

\$600,000.00 in Traffic Mitigation Funds (TMF) were previously approved at the July 15, 2015 Council meeting for the Preliminary Engineering and Environmental phase of the project. These funds will be reimbursed by the South Placer Regional Transportation Authority (SPRTA) as funds become available. Funding for the final design and construction will be provided by Caltrans. No General Funds will be used for this work.

ECONOMIC DEVELOPMENT / JOBS CREATED

The execution of the Cooperative Agreement does not create any jobs.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines 15061(b)(3)). The action of approving the proposed Cooperative Agreement and Closure Statement does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Hossein Naghibzadeh, Associate Engineer

Rhon Herndon, Public Works Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-74

coop agreement

closure statement, coop

RESOLUTION NO. 16-74

APPROVING A COOPERATIVE AGREEMENT
BETWEEN CITY OF ROSEVILLE AND STATE OF CALIFORNIA, DEPARTMENT OF
TRANSPORTATION (CALTRANS) AND AUTHORIZING THE CITY MANAGER TO
EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a Cooperative Agreement to widen Atlantic Street On-Ramp to Westbound Interstate 80, between the City of Roseville and State of California, Department of Transportation (Caltrans), has been reviewed by the Council,

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said cooperative agreement is approved and that the City Manager is authorized to execute it on behalf of the City of Roseville, upon receipt and approval by the City Attorney.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

COOPERATIVE AGREEMENT

State Independent Quality Assurance

This AGREEMENT, effective on _____, is between the State of California, acting through its Department of Transportation, referred to as CALTRANS, and:

City of Roseville, a body politic and municipal corporation or chartered city of the State of California, referred to hereinafter as CITY.

RECITALS

1. PARTNERS are authorized to enter into a cooperative agreement for improvements to the state highway system (SHS) per the California Streets and Highways Code sections 114 and 130.
2. For the purpose of this AGREEMENT, *Widen Atlantic Street On-Ramp to Westbound Interstate 80* will be referred to hereinafter as PROJECT. The project scope of work is defined in the PROJECT initiation and approval documents (e.g. Project Study Report, Permit Engineering Evaluation Report, or Project Report).
3. All responsibilities assigned in this AGREEMENT to complete the following PROJECT COMPONENTS will be referred to hereinafter as OBLIGATIONS:
 - Project Approval and Environmental Document (PA&ED)
4. This AGREEMENT is separate from and does not modify or replace any other cooperative agreement or memorandum of understanding between PARTNERS regarding the PROJECT.
5. No PROJECT deliverables have been completed prior to this AGREEMENT.
6. In this AGREEMENT capitalized words represent defined terms, initializes, or acronyms.
7. PARTNERS hereby set forth the terms, covenants, and conditions of this AGREEMENT, under which they will accomplish OBLIGATIONS.

RESPONSIBILITIES

Sponsorship

8. CITY is the SPONSOR for the PROJECT COMPONENT in this AGREEMENT.

Funding

9. Funding sources, funding amounts, and invoicing/payment details are documented in the FUNDING SUMMARY. The FUNDING SUMMARY is incorporated and made an express part of this AGREEMENT.

PARTNERS will execute a new FUNDING SUMMARY each time the funding details change. The FUNDING SUMMARY will be executed by a legally authorized representative of the respective PARTNERS. The most current fully executed FUNDING SUMMARY supersedes any previous FUNDING SUMMARY created for this AGREEMENT.

Replacement of the FUNDING SUMMARY will not require an amendment to the body of this AGREEMENT unless the funding changes require it.

10. Each PARTNER is responsible for the costs they incur in performing the OBLIGATIONS of this AGREEMENT unless otherwise stated in this AGREEMENT.

Implementing Agency

11. CITY is the IMPLEMENTING AGENCY for PA&ED.
12. The IMPLEMENTING AGENCY for a PROJECT COMPONENT will provide a Quality Management Plan (QMP) for that component as part of the PROJECT MANAGEMENT PLAN. The Quality Management Plan describes the IMPLEMENTING AGENCY's quality policy and how it will be used. The Quality Management Plan is subject to CALTRANS review and approval.
13. Any PARTNER responsible for completing WORK shall make its personnel and consultants that prepare WORK available to help resolve WORK-related problems and changes for the entire duration of the PROJECT including PROJECT COMPONENT work that may occur under separate agreements.

Independent Quality Assurance

14. CALTRANS will provide Independent Quality Assurance for the portions of WORK within the existing and proposed SHS right-of-way.

CALTRANS' Independent Quality Assurance efforts are to ensure that CITY's quality assurance activities result in WORK being developed in accordance with the applicable standards and within an established Quality Management Plan. Independent Quality Assurance does not include any efforts necessary to develop or deliver WORK or any validation by verifying or rechecking work performed by another party.

When CALTRANS performs Independent Quality Assurance it does so for its own benefit. No one can assign liability to CALTRANS due to its Independent Quality Assurance.

Environmental Document Quality Control (EDQC) Program

15. Per NEPA assignment and CEQA statutes, CALTRANS will perform Environmental Document Quality Control and NEPA Assignment Review Procedures for environmental documentation. CALTRANS quality control and quality assurance procedures for all environmental documents are described in the Jay Norvell Memos dated October 1, 2012 (available at http://www.dot.ca.gov/ser/memos.htm#LinkTarget_705). This also includes the independent judgment analysis and determination under CEQA that the environmental documentation meets CEQA requirements.

CEQA/NEPA Lead Agency

16. CALTRANS is the CEQA Lead Agency for the PROJECT.
17. CALTRANS is the NEPA Lead Agency for the PROJECT.

Environmental Permits, Approvals and Agreements

18. PARTNERS will comply with the commitments and conditions set forth in the environmental documentation, environmental permits, approvals, and applicable agreements as those commitments and conditions apply to each PARTNER's responsibilities in this AGREEMENT.
19. Unless otherwise assigned in this AGREEMENT, the IMPLEMENTING AGENCY for a PROJECT COMPONENT is responsible for all PROJECT COMPONENT WORK associated with coordinating, obtaining, implementing, renewing, and amending the PROJECT permits, agreements, and approvals whether they are identified in the planned project scope of work or become necessary in the course of completing the PROJECT.
20. The PROJECT requires the following environmental requirements/approvals:

ENVIRONMENTAL PERMITS/REQUIREMENTS	
404, US Army Corps Of Engineers	
401, Regional Water Quality Control Board	
National Pollutant Discharge Elimination System (NPDES), State Water Resources Control Board	
Department of Fish and Wildlife	
U.S. Fish & Wildlife Service	

Project Approval and Environmental Document (PA&ED)

21. As IMPLEMENTING AGENCY for PA&ED, CITY is responsible for all PA&ED WORK except those PA&ED activities and responsibilities that are assigned to another PARTNER in this AGREEMENT and those activities that may be specifically excluded.
22. CALTRANS will be responsible for completing the following PA&ED activities:

CALTRANS Work Breakdown Structure Identifier (If Applicable)
Independent Quality Assurance
Environmental Document Quality Control
165.15.15.xx Section 7 Consultation
165.25.25 Approval to Circulate Resolution
175.20 Project Preferred Alternative
180.10.05 Approved Final Environmental Document
180.15.05 Record of Decision (NEPA)
180.15.10 Notice of Determination (CEQA)

23. Any PARTNER preparing environmental documentation, including studies and reports, will ensure that qualified personnel remain available to help resolve environmental issues and perform any necessary work to ensure that the PROJECT remains in environmental compliance.

California Environmental Quality Act (CEQA)

24. CALTRANS will determine the type of CEQA documentation and will cause that documentation to be prepared in accordance with CEQA requirements.
25. Any PARTNER involved in the preparation of CEQA environmental documentation will prepare the documentation to meet CEQA requirements and follow CALTRANS' standards that apply to the CEQA process.
26. Any PARTNER preparing any portion of the CEQA environmental documentation, including any studies and reports, will submit that portion of the documentation to the CEQA Lead Agency for review, comment, and approval at appropriate stages of development prior to public availability.

27. CITY will submit CEQA-related public notices to CALTRANS for review, comment, and approval prior to publication and circulation.
28. CITY will submit all CEQA-related public meeting materials to CALTRANS for review, comment, and approval at least ten (10) working days prior to the public meeting date. If CALTRANS makes any changes to the materials, then CALTRANS will allow CITY to review, comment, and concur on those changes at least three (3) working days prior to the public meeting date.
29. CALTRANS will attend all CEQA-related public meetings.
30. If a PARTNER who is not the CEQA lead agency holds a public meeting about the PROJECT, that PARTNER must clearly state its role in the PROJECT and the identity of the CEQA lead agency on all meeting publications. All meeting publications must also inform the attendees that public comments collected at the meetings are not part of the CEQA public review process.

That PARTNER will submit all meeting advertisements, agendas, exhibits, handouts, and materials to the CEQA lead agency for review, comment, and approval at least ten (10) working days prior to publication or use. If that PARTNER makes any changes to the materials, it will allow the CEQA lead agency to review, comment on, and approve those changes at least three (3) working days prior to the public meeting date.

The CEQA lead agency maintains final editorial control with respect to text or graphics that could lead to public confusion over CEQA-related roles and responsibilities.

National Environmental Policy Act (NEPA)

31. Pursuant to Chapter 3 of Title 23, United States Code (23 U.S.C. 326) and 23 U.S.C. 327, CALTRANS is the NEPA lead agency for the PROJECT. CALTRANS is responsible for NEPA compliance, will determine the type of NEPA documentation, and will cause that documentation to be prepared in accordance with NEPA requirements.

CALTRANS, as the NEPA lead agency for PROJECT, will review, comment, and approve all environmental documentation (including, but not limited to, studies, reports, public notices, and public meeting materials, determinations, administrative drafts, and final environmental documents) at appropriate stages of development prior to approval and public availability.

When required as NEPA lead agency, CALTRANS will conduct consultation and coordination and obtain, renew, or amend approvals pursuant to the Federal Endangered Species Act, and Essential Fish Habitat.

When required as NEPA lead agency, CALTRANS will conduct consultation and coordination approvals pursuant to Section 106 of the National Historic Preservation Act.

32. Any PARTNER involved in the preparation of NEPA environmental documentation will follow FHWA and CALTRANS STANDARDS that apply to the NEPA process including, but not limited to, the guidance provided in the FHWA Environmental Guidebook (available at www.fhwa.dot.gov/hep/index.htm) and the CALTRANS Standard Environmental Reference.
33. Any PARTNER preparing any portion of the NEPA environmental documentation (including, but not limited to, studies, reports, public notices, and public meeting materials, determinations, administrative drafts, and final environmental documents) will submit that portion of the documentation to CALTRANS for CALTRANS' review, comment, and approval prior to public availability.
34. CITY will prepare, publicize, and circulate all NEPA-related public notices, except Federal Register notices. CITY will submit all notices to CALTRANS for CALTRANS' review, comment, and approval prior to publication and circulation.

CALTRANS will work with the appropriate federal agency to publish notices in the Federal Register.

35. CALTRANS will attend all NEPA-related public meetings.
36. CITY will submit all NEPA-related public meeting materials to CALTRANS for CALTRANS' review, comment, and approval at least ten (10) working days prior to the public meeting date.
37. If a PARTNER who is not the NEPA lead agency holds a public meeting about the PROJECT, that PARTNER must clearly state its role in the PROJECT and the identity of the NEPA lead agency on all meeting publications. All meeting publications must also inform the attendees that public comments collected at the meetings are not part of the NEPA public review process.

That PARTNER will submit all meeting advertisements, agendas, exhibits, handouts, and materials to the NEPA lead agency for review, comment, and approval at least ten (10) working days prior to publication or use. If that PARTNER makes any changes to the materials, it will allow the NEPA lead agency to review, comment on, and approve those changes at least three (3) working days prior to the public meeting date.

The NEPA lead agency has final approval authority with respect to text or graphics that could lead to public confusion over NEPA-related roles and responsibilities.

Schedule

38. PARTNERS will manage the schedule for OBLIGATIONS through the work plan included in the PROJECT MANAGEMENT PLAN.

Additional Provisions

39. PARTNERS will perform all OBLIGATIONS in accordance with federal and California laws, regulations, and standards; FHWA STANDARDS; and CALTRANS STANDARDS.
40. CALTRANS retains the right to reject noncompliant WORK, protect public safety, preserve property rights, and ensure that all WORK is in the best interest of the SHS.
41. Each PARTNER will ensure that personnel participating in OBLIGATIONS are appropriately qualified or licensed to perform the tasks assigned to them.
42. PARTNERS will invite each other to participate in the selection of any consultants who participate in OBLIGATIONS.
43. CALTRANS will issue, upon proper application, the encroachment permits required for WORK within SHS right-of-way. Contractors and/or agents, and utility owners will not work within the SHS right-of-way without an encroachment permit issued in their name. CALTRANS will provide encroachment permits to PARTNERS, their contractors, consultants and agents, and utility owners at no cost. If the encroachment permit and this AGREEMENT conflict, the requirements of this AGREEMENT shall prevail.
44. The IMPLEMENTING AGENCY for a PROJECT COMPONENT will coordinate, prepare, obtain, implement, renew, and amend any encroachment permits needed to complete the PROJECT COMPONENT WORK.
45. If any PARTNER discovers unanticipated cultural, archaeological, paleontological, or other protected resources during WORK, all WORK in that area will stop and that PARTNER will notify all PARTNERS within twenty-four (24) hours of discovery. WORK may only resume after a qualified professional has evaluated the nature and significance of the discovery and a plan is approved for its removal or protection.
46. PARTNERS will hold all administrative drafts and administrative final reports, studies, materials, and documentation relied upon, produced, created, or utilized for the PROJECT in confidence to the extent permitted by law and where applicable, the provisions of California Government Code section 6254.5(e) shall protect the confidentiality of such documents in the event that said documents are shared between PARTNERS.

PARTNERS will not distribute, release, or share said documents with anyone other than employees, agents, and consultants who require access to complete the PROJECT without the written consent of the PARTNER authorized to release them, unless required or authorized to do so by law.

47. If a PARTNER receives a public records request pertaining to OBLIGATIONS, that PARTNER will notify PARTNERS within five (5) working days of receipt and make PARTNERS aware of any disclosed public documents. PARTNERS will consult with each other prior to the release of any public documents related to the PROJECT.
48. If HM-1 or HM-2 is found during a PROJECT COMPONENT, the IMPLEMENTING AGENCY for that PROJECT COMPONENT will immediately notify PARTNERS.
49. CALTRANS, independent of the PROJECT, is responsible for any HM-1 found within the existing SHS right-of-way. CALTRANS will undertake, or cause to be undertaken, HM MANAGEMENT ACTIVITIES related to HM-1 with minimum impact to the PROJECT schedule.

CALTRANS, independent of the PROJECT will pay, or cause to be paid, the cost of HM MANAGEMENT ACTIVITIES related to HM-1 found within the existing SHS right-of-way.

50. CITY, independent of the PROJECT, is responsible for any HM-1 found within the PROJECT limits and outside the existing SHS right-of-way. CITY will undertake, or cause to be undertaken, HM MANAGEMENT ACTIVITIES related to HM-1 with minimum impact to the PROJECT schedule.

CITY, independent of the PROJECT, will pay, or cause to be paid, the cost of HM MANAGEMENT ACTIVITIES related to HM-1 found within the PROJECT limits and outside of the existing SHS right-of-way.

51. If HM-2 is found within the PROJECT limits, the public agency responsible for the advertisement, award, and administration (AAA) of the PROJECT construction contract will be responsible for HM MANAGEMENT ACTIVITIES related to HM-2.
52. CALTRANS' acquisition or acceptance of title to any property on which any HM-1 or HM-2 is found will proceed in accordance with CALTRANS' policy on such acquisition.
53. CITY will accept, reject, compromise, settle, or litigate claims of any non-AGREEMENT parties hired to complete OBLIGATIONS.

54. PARTNERS will confer on any claim that may affect OBLIGATIONS or PARTNERS' liability or responsibility under this AGREEMENT in order to retain resolution possibilities for potential future claims. No PARTNER will prejudice the rights of another PARTNER until after PARTNERS confer on the claim.
55. If the PROJECT expends state or federal funds, each PARTNER will comply with the federal Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards of 2 CFR, Part 200. PARTNERS will ensure that any for-profit party hired to participate in the OBLIGATIONS will comply with the requirements in 48 CFR, Chapter 1, Part 31. When state or federal funds are expended on the PROJECT these principles and requirements apply to all funding types included in this AGREEMENT.
56. If the PROJECT expends state or federal funds, each PARTNER will undergo an annual audit in accordance with the Single Audit Act and the federal Office of Management and Budget (OMB) Circular A-133.
57. If the PROJECT expends federal funds, any PARTNER that hires an A&E consultant to perform WORK on any part of the PROJECT will ensure that the procurement of the consultant and the consultant overhead costs are in accordance with Chapter 10 of the *Local Assistance Procedures Manual*.
58. If WORK stops for any reason, IMPLEMENTING AGENCY will place the PROJECT right-of-way in a safe and operable condition acceptable to CALTRANS.
59. If WORK stops for any reason, each PARTNER will continue to implement all of its applicable commitments and conditions included in the PROJECT environmental documentation, permits, agreements, or approvals that are in effect at the time that WORK stops, as they apply to each PARTNER's responsibilities in this AGREEMENT, in order to keep the PROJECT in environmental compliance until WORK resumes.
60. Fines, interest, or penalties levied against a PARTNER will be paid by the PARTNER whose action or lack of action caused the levy.
61. If there are insufficient funds available in this AGREEMENT to place PROJECT right-of-way in a safe and operable condition, the appropriate IMPLEMENTING AGENCY will fund these activities until such time as PARTNERS amend this AGREEMENT.

That IMPLEMENTING AGENCY may request reimbursement for these costs during the amendment process.

62. CITY will furnish CALTRANS with the Project History Files related to the PROJECT facilities on SHS within sixty (60) days following the completion of each PROJECT COMPONENT. CITY will prepare the Project History File in accordance with the Project Development Procedures Manual, Chapter 7. All material will be submitted neatly in a three-ring binder and on a CD ROM in PDF format.

GENERAL CONDITIONS

63. PARTNERS understand that this AGREEMENT is in accordance with and governed by the Constitution and laws of the State of California. This AGREEMENT will be enforceable in the State of California. Any PARTNER initiating legal action arising from this AGREEMENT will file and maintain that legal action in the Superior Court of the county in which the CALTRANS district office that is signatory to this AGREEMENT resides, or in the Superior Court of the county in which the PROJECT is physically located.
64. All CALTRANS' OBLIGATIONS under this AGREEMENT are subject to the appropriation of resources by the Legislature, the State Budget Act authority, and the allocation of funds by the California Transportation Commission.
65. Neither CITY nor any officer or employee thereof is responsible for any injury, damage or liability occurring by reason of anything done or omitted to be done by CALTRANS, its contractors, sub-contractors, and/or its agents under or in connection with any work, authority, or jurisdiction conferred upon CALTRANS under this AGREEMENT. It is understood and agreed that CALTRANS, to the extent permitted by law, will defend, indemnify, and save harmless CITY and all of its officers and employees from all claims, suits, or actions of every name, kind, and description brought forth under, but not limited to, tortious, contractual, inverse condemnation, or other theories and assertions of liability occurring by reason of anything done or omitted to be done by CALTRANS, its contractors, sub-contractors, and/or its agents under this AGREEMENT.
66. Neither CALTRANS nor any officer or employee thereof is responsible for any injury, damage, or liability occurring by reason of anything done or omitted to be done by CITY, its contractors, sub-contractors, and/or its agents under or in connection with any work, authority, or jurisdiction conferred upon CITY under this AGREEMENT. It is understood and agreed that CITY, to the extent permitted by law, will defend, indemnify, and save harmless CALTRANS and all of its officers and employees from all claims, suits, or actions of every name, kind, and description brought forth under, but not limited to, tortious, contractual, inverse condemnation, or other theories and assertions of liability occurring by reason of anything done or omitted to be done by CITY, its contractors, sub-contractors, and/or its agents under this AGREEMENT.

67. PARTNERS do not intend this AGREEMENT to create a third party beneficiary or define duties, obligations, or rights in parties not signatory to this AGREEMENT. PARTNERS do not intend this AGREEMENT to affect their legal liability by imposing any standard of care for fulfilling OBLIGATIONS different from the standards imposed by law.
68. PARTNERS will not assign or attempt to assign OBLIGATIONS to parties not signatory to this AGREEMENT without an amendment to this AGREEMENT.
69. CITY will not interpret any ambiguity contained in this AGREEMENT against CALTRANS. CITY waives the provisions of California Civil Code section 1654.

A waiver of a PARTNER's performance under this AGREEMENT will not constitute a continuous waiver of any other provision.

70. A delay or omission to exercise a right or power due to a default does not negate the use of that right or power in the future when deemed necessary.
71. If any PARTNER defaults in its OBLIGATIONS, a non-defaulting PARTNER will request in writing that the default be remedied within thirty (30) calendar days. If the defaulting PARTNER fails to do so, the non-defaulting PARTNER may initiate dispute resolution.
72. PARTNERS will first attempt to resolve AGREEMENT disputes at the PROJECT team level. If they cannot resolve the dispute themselves, the CALTRANS district director and the executive officer of CITY will attempt to negotiate a resolution. If PARTNERS do not reach a resolution, PARTNERS' legal counsel will initiate mediation. PARTNERS agree to participate in mediation in good faith and will share equally in its costs.

Neither the dispute nor the mediation process relieves PARTNERS from full and timely performance of OBLIGATIONS in accordance with the terms of this AGREEMENT. However, if any PARTNER stops fulfilling OBLIGATIONS, any other PARTNER may seek equitable relief to ensure that OBLIGATIONS continue.

Except for equitable relief, no PARTNER may file a civil complaint until after mediation, or forty-five (45) calendar days after filing the written mediation request, whichever occurs first.

PARTNERS will file any civil complaints in the Superior Court of the county in which the CALTRANS district office signatory to this AGREEMENT resides or in the Superior Court of the county in which the PROJECT is physically located. The prevailing PARTNER will be entitled to an award of all costs, fees, and expenses, including reasonable attorney fees as a result of litigating a dispute under this AGREEMENT or to enforce the provisions of this article including equitable relief.

73. PARTNERS maintain the ability to pursue alternative or additional dispute remedies if a previously selected remedy does not achieve resolution.
74. If any provisions in this AGREEMENT are found by a court of competent jurisdiction to be, or are in fact, illegal, inoperative, or unenforceable, those provisions do not render any or all other AGREEMENT provisions invalid, inoperative, or unenforceable, and those provisions will be automatically severed from this AGREEMENT.
75. If during performance of WORK additional activities or environmental documentation is necessary to keep the PROJECT in environmental compliance, PARTNERS will amend this AGREEMENT to include completion of those additional tasks.
76. Except as otherwise provided in the AGREEMENT, PARTNERS will execute a formal written amendment if there are any changes to OBLIGATIONS.
77. When WORK performed on the PROJECT is done under contract and falls within the Labor Code section 1720(a)(1) definition of "public works" in that it is construction, alteration, demolition, installation, or repair; or maintenance work under Labor Code section 1771, PARTNERS shall conform to the provisions of Labor Code sections 1720 through 1815, and all applicable provisions of California Code of Regulations found in Title 8, Division 1, Chapter 8, Subchapter 3, Articles 1-7. PARTNERS shall include prevailing wage requirements in contracts for public work and require contractors to include the same prevailing wage requirements in all subcontracts. Work performed by a PARTNER's own employees is exempt from the Labor Code's Prevailing Wage requirements.
78. If WORK is paid for, in whole or part, with federal funds and is of the type of work subject to federal prevailing wage requirements, PARTNERS shall conform to the provisions of the Davis-Bacon and Related Acts, 40 U.S.C. § 276(a).

When applicable, PARTNERS shall include federal prevailing wage requirements in contracts for public work. WORK performed by a PARTNER's employees is exempt from federal prevailing wage requirements.

79. PARTNERS agree to sign a CLOSURE STATEMENT to terminate this AGREEMENT. However, all indemnification, document retention, audit, claims, environmental commitment, legal challenge, maintenance and ownership articles will remain in effect until terminated or modified in writing by mutual agreement or expire by the statute of limitations.
80. PARTNERS intend this AGREEMENT to be their final expression that supersedes any oral understanding or writings pertaining to the OBLIGATIONS. The requirements of this agreement shall preside over any conflicting requirements in any documents that are made an express part of this AGREEMENT.

DEFINITIONS

AGREEMENT – This agreement including any attachments, exhibits, and amendments.

CALTRANS STANDARDS – CALTRANS policies and procedures, including, but not limited to, the guidance provided in the Project Development Procedures Manual (PDPM) and the CALTRANS Workplan Standards Guide for the Delivery of Capital Projects (WSG) [which contains the CALTRANS Work Breakdown Structure (WBS) and was previously known as the WBS Guide] and is available at <http://www.dot.ca.gov/hq/projmgmt/guidance.htm>.

CEQA (California Environmental Quality Act) – The act (California Public Resources Code, sections 21000 et seq.) that requires state and local agencies to identify the significant environmental impacts of their actions and to avoid or mitigate those significant impacts, if feasible.

CFR (Code of Federal Regulations) – The general and permanent rules published in the Federal Register by the executive departments and agencies of the federal government.

CLOSURE STATEMENT – A document signed by PARTNERS that verifies the completion of all OBLIGATIONS included in this AGREEMENT and in all amendments to this AGREEMENT.

EDQC (Environmental Document Quality Control) - CALTRANS quality control and quality assurance procedures for all environmental documents as described in the Jay Norvell Memos dated October 1, 2012 (available at http://www.dot.ca.gov/ser/memos.htm#LinkTarget_705). This also includes the independent judgment analysis and determination under CEQA that the environmental documentation meets CEQA requirements.

FHWA – Federal Highway Administration.

FHWA STANDARDS – FHWA regulations, policies and procedures, including, but not limited to, the guidance provided at www.fhwa.dot.gov/topics.htm.

FUNDING PARTNER – A PARTNER that commits funds in this AGREEMENT to fulfill OBLIGATIONS. A FUNDING PARTNER accepts the responsibility to provide the funds it commits in this Agreement.

FUNDING SUMMARY – An executed document that includes a FUNDING TABLE and invoicing and payment methods.

FUNDING TABLE – The table that designates funding sources, types of funds, and the PROJECT COMPONENT in which the funds are to be spent. Funds listed on the FUNDING TABLE are “not-to-exceed” amounts for each FUNDING PARTNER.

GAAP (Generally Accepted Accounting Principles) – Uniform minimum standards and guidelines for financial accounting and reporting issued by the Federal Accounting Standards Advisory Board that serve to achieve some level of standardization. See <http://www.fasab.gov/accepted.html>.

HM-1 – Hazardous material (including, but not limited to, hazardous waste) that may require removal and disposal pursuant to federal or state law whether it is disturbed by the PROJECT or not.

HM-2 – Hazardous material (including, but not limited to, hazardous waste) that may require removal and disposal pursuant to federal or state law only if disturbed by the PROJECT.

HM MANAGEMENT ACTIVITIES – Management activities related to either HM-1 or HM-2 including, without limitation, any necessary manifest requirements and disposal facility designations.

IMPLEMENTING AGENCY – The PARTNER responsible for managing the scope, cost, and schedule of a PROJECT COMPONENT to ensure the completion of that component.

IQA (Independent Quality Assurance) – CALTRANS' efforts to ensure that another PARTNER's quality assurance activities are in accordance with the applicable standards and the PROJECT's Quality Management Plan (QMP). When CALTRANS performs Independent Quality Assurance it does not develop, produce, validate, verify, re-check, or quality control another PARTNER's work products.

NEPA (National Environmental Policy Act of 1969) – This federal act establishes a national policy for the environment and a process to disclose the adverse impacts of projects with a federal nexus.

OBLIGATIONS – All WORK responsibilities and their associated costs.

OBLIGATION COMPLETION – PARTNERS have fulfilled all OBLIGATIONS included in this AGREEMENT and have signed a COOPERATIVE AGREEMENT CLOSURE STATEMENT.

PA&ED (Project Approval and Environmental Document) – See PROJECT COMPONENT

PARTNER – Any individual signatory party to this AGREEMENT.

PARTNERS – The term that collectively references all of the signatory agencies to this AGREEMENT. This term only describes the relationship between these agencies to work together to achieve a mutually beneficial goal. It is not used in the traditional legal sense in which one PARTNER's individual actions legally bind the other PARTNER.

PROJECT COMPONENT – A distinct portion of the planning and project development process of a capital project as outlined in California Government Code, section 14529(b).

- **PID (Project Initiation Document)** – The work required to deliver the project initiation document for the PROJECT in accordance with CALTRANS STANDARDS.
- **PA&ED (Project Approval and Environmental Document)** – The work required to deliver the project approval and environmental documentation for the PROJECT in accordance with CALTRANS STANDARDS.
- **PS&E (Plans, Specifications, and Estimate)** – The work required to deliver the plans, specifications, and estimate for the PROJECT in accordance with CALTRANS STANDARDS.
- **R/W (Right of Way)** – The project components for the purpose of acquiring real property interests for the PROJECT in accordance with CALTRANS STANDARDS.
 - **R/W (Right of Way) SUPPORT** – The work required to obtain all property interests for the PROJECT.
 - **R/W (Right of Way) CAPITAL** – The funds for acquisition of property rights for the PROJECT.
- **CONSTRUCTION** – The project components for the purpose of completing the construction of the PROJECT in accordance with CALTRANS STANDARDS.
 - **CONSTRUCTION SUPPORT** – The work required for the administration, acceptance, and final documentation of the construction contract for the PROJECT.
 - **CONSTRUCTION CAPITAL** – The funds for the construction contract.

PROJECT MANAGEMENT PLAN – A group of documents used to guide the PROJECT's execution and control throughout that project's lifecycle.

QMP (Quality Management Plan) – An integral part of the PROJECT MANAGEMENT PLAN that describes IMPLEMENTING AGENCY's quality policy and how it will be used.

SHS (State Highway System) – All highways, right-of-way, and related facilities acquired, laid out, constructed, improved, or maintained as a state highway pursuant to constitutional or legislative authorization.

SPONSOR – Any PARTNER that accepts the responsibility to establish scope of the PROJECT and the obligation to secure financial resources to fund the PROJECT COMPONENTS in this AGREEMENT. A SPONSOR is responsible for adjusting the PROJECT scope to match committed funds or securing additional funds to fully fund the PROJECT COMPONENTS in this AGREEMENT. If this AGREEMENT has more than one SPONSOR, funding adjustments will be made by percentage (as outlined in Responsibilities). Scope adjustments must be developed through the project development process and must be approved by CALTRANS as the owner/operator of the SHS.

WORK – All efforts to complete the OBLIGATIONS included in this AGREEMENT as described by the activities in the CALTRANS Workplan Standards Guide for the Delivery of Capital Projects (WSG).

SIGNATURES

PARTNERS are empowered by California Streets and Highways Code section 114 and 130 to enter into this AGREEMENT and have delegated to the undersigned the authority to execute this AGREEMENT on behalf of the respective agencies and covenants to have followed all the necessary legal requirements to validly execute this AGREEMENT.

Signatories may execute this AGREEMENT through individual signature pages provided that each signature is an original. This AGREEMENT is not fully executed until all original signatures are attached.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Thomas L. Brannon
Deputy District Director,
D3 Program / Project Management

Certified as to funds:

District Project Control Officer

CITY OF ROSEVILLE

Rob Jensen
City Manager

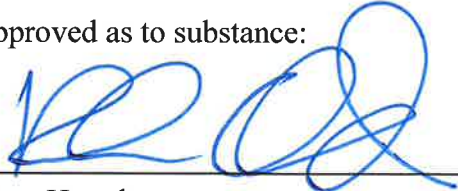
Attest:

Sonia Orozco
City Clerk

Approved as to form:

Robert R. Schmitt
City Attorney

Approved as to substance:



Rhon Herndon,
Public Works Director

FUNDING SUMMARY NO. 01

FUNDING TABLE					v.1
Source		FUNDING PARTNER	IMPLEMENTING AGENCY →		
			Fund Type	CITY	Totals
Local	CITY		Local	600,000	600,000
Totals				600,000	600,000

Funding

Invoicing and Payment

Project Approval and Environmental Document (PA&ED)

1. No invoicing or reimbursement will occur for the PA&ED PROJECT COMPONENT.

Signatures

PARTNERS are empowered by California Streets and Highways Code sections 114 and 130 to enter into this AGREEMENT and have delegated to the undersigned the authority to execute this FUNDING SUMMARY on behalf of the respective agencies and covenants to have followed all the necessary legal requirements to validly execute this FUNDING SUMMARY.

Signatories may execute this FUNDING SUMMARY through individual signature pages provided that each signature is an original. This FUNDING SUMMARY is not fully executed until all original signatures are attached.

**STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION**

Thomas L. Brannon
Deputy District Director,
D3 Program / Project Management

Date _____

District Project Control Officer



HQ Accounting

CITY OF ROSEVILLE

Rob Jensen
City Manager

Date _____



COUNCIL COMMUNICATION

CC #: 7495
File #: 0800-02

Title: Programming Services and Process Control Standards Update - Professional Services Agreement Amendment
Contact: Charles Aycock 746-1887 caycock@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.13.

RECOMMENDATION TO COUNCIL

Recommend Council adopt a resolution authorizing the City Manager to execute the first amendment to Professional Services Agreement with EMA, Inc. in the amount of \$18,490.00 for programmable logic controller programming services, and related Process Control Standards updates.

BACKGROUND

As the unprecedented drought drove water levels in Folsom Lake to record lows in January 2014, staff submitted and the City Council approved the design and construction of two permanent pump stations to transfer water. One inter-agency pump station is to move water from Sacramento Suburban Water District (SSWD) to the City and one transfer pump station is within the City to move water from pressure zone 4 to pressure zone 1. Discussion of each pump station follows:

Intertie Pump Station: As part of the 2008 American River Basin Conjunctive Use Program, interconnections between the City of Roseville and other water agencies were envisioned to further the program's objectives of improving the reliability of the regional water system, helping preserve the groundwater basin for use in drought years, and better managing surface and groundwater resources (conjunctive use). Major water suppliers for these regional interconnections with the City include San Juan Water District (SJWD), Placer County Water Agency (PCWA) and SSWD. Transmission pipelines to connect regional water systems have been completed in several previous capital improvement projects.

Because of varying geography and operational criteria, the different water systems operate at different pressures. To allow for transfer of water between agencies through these interconnections, booster pump stations are required to overcome these pressure differentials.

Zone 4 Transfer Pump Station: The majority of the City's groundwater supply wells are located within pressure zone 4 on the west side of the City where groundwater is stored at high quantities

in alluvial aquifers as the Sacramento Valley slopes to the west from the Sierras. During critical drought periods, in order to move groundwater produced in zone 4, a lower pressure zone, to the primary pressure zone 1 of the City where the water demand is greater, pump stations are needed.

Construction

EMA, Inc. was retained by the City to perform the programmable logic controller programming and associated standards updates for the two new pumping stations. The current not to exceed Professional Services Agreement is \$82,912.00. During construction, additional expenses were incurred due to unforeseen conditions, and general construction delays. The total Agreement Amendment is in the amount of \$18,490.00. Staff is requesting to amend the Agreement to a total amount of \$101,402.00.

FISCAL IMPACT

The additional cost for this Amendment is \$18,490.00 and will be split between three approved Capital Improvement Projects (CIP). The Intertie construction project CIP 143001, which is funded by the Water Construction Fund and will fund task 7, totaling \$5,300.00. The Process Control Standards CIPs 073508 and 073002 are funded by the South Placer Wastewater Authority (SPWA) partners and Water Construction Funds, respectively, and are the funding source for task #8 for \$13,190.00. In total, The City of Roseville is responsible for 63.34% of the SPWA share and the City of Roseville is fully liable for the Water Construction Fund costs; therefore City of Roseville is responsible for \$22,667.27 of Amendment 1.

ECONOMIC DEVELOPMENT / JOBS CREATED

Approximately 3 temporary jobs will be created by this amendment.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15061(b)(3)). Approval of the Professional Services Agreement Amendment for development of a Intertie and Zone 4 Transfer Pump Stations Programming project does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Charles Aycock, EIM Systems Coordinator

Richard Plecker, Environmental Utilities Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution 16-77

EMA PSA.Amendment #1

RESOLUTION NO. 16-77

APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT
BETWEEN THE CITY OF ROSEVILLE AND EMA, INC., AND AUTHORIZING THE CITY
MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to professional services agreement for programming services, by and between the City of Roseville and EMA, Inc., has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES AGREEMENT**

Project: Programming Services

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and EMA, Inc., a Minnesota corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Professional Services Agreement dated May 20, 2015 ("Agreement") regarding programming services; and

WHEREAS, CITY desires to amend the Agreement to include additional services as described in CONSULTANT's letter/proposal dated January 15, 2016, which is attached hereto as Exhibit "A" and incorporated herein by reference; and

WHEREAS, CONSULTANT is willing and able to provide such additional services; and

NOW, THEREFORE, the parties agree as follows:

1. CONSULTANT shall provide additional services as described in Exhibit "A" of this First Amendment to Agreement.
2. Paragraph 2 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY shall pay eighteen thousand, four hundred ninety dollars (\$18,490), in consideration of the additional services as set forth in Exhibit "A" to the First

Amendment to Agreement. This brings the total not to exceed contract amount to one hundred one thousand, four hundred two dollars (\$101,402).”

3. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

BY: _____
ROB JENSEN
City Manager

ATTEST:

BY: _____
SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: Richard D. Plecker
RICHARD D. PLECKER
Environmental Utilities Director

EMA, INC., a
Minnesota corporation

BY: Brian Bil
its: VP Finance

and

BY: Calvin R. Noel
its: Vice President

EXHIBIT “A”



EMA, Inc.
4742 N. Oracle Rd., Suite 310
Tucson, AZ 85705-1675

phone 520 299 0992
www.ema-inc.com

January 15, 2016

Mr. Charles Aycock
EIM Systems Coordinator
City of Roseville Environmental Utilities
1800 Booth Road
Roseville, CA 95747

SUBJECT: Proposal for Additional Programming Services

Dear Mr. Aycock:

EMA is pleased to submit herewith a proposal providing the additional programming professional services you requested. These services include the following Tasks 7 and 8. Tasks 1-6 of the existing contract remain unchanged.

SCOPE OF SERVICES

Task 7 – Startup and Testing Assistance at PG BPS and PFE Pump Station during Barton Road SCADA IFIX Cutover.

EMA will provide on-site assistance during testing of the new Barton Road IFIX SCADA Screens for the PG BPS and PFE Pump Stations.

Deliverables: Revised PLC Programs (as needed).

Task 8 – Standard User Defined Function Block Library Development.

EMA will work with the City of Roseville to develop a library of Standard User Defined Function Blocks. This library shall be provided during future projects to allow standardization of the City's control programs.

EMA will program and test the Function Blocks using Schneider Electric's Unity Pro Software.

EMA will update the Programming Standards document with a new section describing the function and use of the Defined Function Blocks.

Deliverables: User Defined Function Block program files, revised Programming Standards document.

Mr. Charles Aycock
January 15, 2016

COMMERCIAL TERMS

EMA is prepared to provide services for additional Tasks 7 and 8. A cost breakdown by task is included in the following table.

Task	Task Description	Cost
7	Startup and Testing Assistance at PG BPS and PFE Pump Station during Barton Road SCADA IFIX Cutover.	\$5,300
8	Standard User Defined Function Block Library Development.	\$13,190
Total		\$18,490

We appreciate the opportunity to provide you with these services. If you have any questions, please call me direct at (520) 529-4443.

Sincerely,



Calvin R. Rooker, PE
Vice President
EMA, Inc.

File Y:\Marketing\Proposals\2015 Proposals\City of Roseville PLC Programming Services\PLC Programming Standards\Additional Programming Services_v1.docx



COUNCIL COMMUNICATION

CC #: 7494

File #: 0206-03-01

Title:	HP Campus Oaks Community Facilities District Funding, Construction and Acquisition Agreement
Contact:	Jeannine Thrash 774-5473 jthrash@roseville.ca.us Monty Hanks 774-5313 mhanks@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.14.

RECOMMENDATION TO COUNCIL

It is requested that the City Council adopt the following resolution:

- A Resolution Approving the Funding, Construction and Acquisition Agreement for and on Behalf of the City of Roseville HP Campus Oaks Community Facilities District No. 1(Public Facilities)

BACKGROUND

On September 22, 2015, the City Council adopted Resolution No. 15-443, which formed HP Campus Oaks Community Facilities District ("CFD") No. 1. The resolution being requested for approval pertains to the HP Campus Oaks Funding, Construction and Acquisition Agreement. The purpose of the Acquisition Agreement is to provide agreement between the City and the Developer, BBC Roseville Oaks, LLC (BBC), as to the use of the proceeds of the bonds for the acquisition of public facilities authorized to be financed by the CFD by setting forth the mechanics and requirements for reimbursement to BBC of costs incurred for the public facilities. BBC seeks approximately \$20 million to be financed by the bonds and staff is working with the City's consultants to structure the bonds in a manner which generates the targeted amount. In the event bond proceeds fall short of that amount or facilities costs exceed that amount by up to 10% (\$2 million), this agreement includes a provision for funding the shortfall by increasing the levy of the special tax for not to exceed 10 years (as a "pay-as-you-go" component of the levy, in excess of bond debt service) to achieve the not to exceed \$22 million cost estimate. The foregoing provision is pursuant to and conforms with the agreement of the City for pay as you go funding set forth in the Development Agreement. Construction of public infrastructure at the site is underway and bonds are expected to be issued in late March, at which time, if approved by the Council, this agreement will be executed.

FISCAL IMPACT

Approving the Funding, Construction and Acquisition Agreement has no impact on the City's General Fund. The CFDs will generate special taxes that will be paid by the property owners sufficient to pay the costs for debt service, CFD administration, and any authorized pay-as-you-go facilities.

ECONOMIC DEVELOPMENT / JOBS CREATED

The approval of this resolution will have an impact on economic development and job creation.

ENVIRONMENTAL REVIEW

This agreement is not considered a "project" as defined by the California Environmental Quality Act (CEQA), Section 15273 of the CEQA guidelines and therefore no CEQA action is required.

Respectfully Submitted,

Jeannine Thrash, Administrative Analyst

Monty Hanks, Finance Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-76

Campus Oaks Acq Agr

RESOLUTION NO. 16-76

A RESOLUTION APPROVING FUNDING, CONSTRUCTION AND ACQUISITION AGREEMENT IN CONNECTION WITH HP CAMPUS OAKS COMMUNITY FACILITIES DISTRICT NO. 1 (PUBLIC FACILITIES)

WHEREAS, on December 16, 2015, this City Council (the "Council") of the City of Roseville (the "City") adopted Resolution No. 15-528 (the "Prior Resolution") with respect to HP Campus Oaks Community Facilities District No. 1 (Public Facilities) (the "CFD") of the City that, among other things, authorized the Authorized Officers (as defined herein) to draft, negotiate and execute a Funding, Construction and Acquisition Agreement (the "Acquisition Agreement") by and between the City, for itself and on behalf of the CFD, and BBC Roseville Oaks, LLC (the "Developer"), the owner of all the land within the CFD; and

WHEREAS, the Authorized Officers have drafted and negotiated a form of Acquisition Agreement with the Developer and wishes to bring it to this Council for final approval prior to the execution thereof.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF ROSEVILLE RESOLVES AS FOLLOWS:

1. **Approval of Acquisition Agreement.** As a part of the proceedings for the CFD, this Council hereby approves the Funding, Construction and Acquisition Agreement (the "Acquisition Agreement") by and between the City and the Developer, the form of which is on file with the City Clerk. The purpose of the Acquisition Agreement is to provide for the acquisition of certain public facilities and payment of certain incidental expenses relating thereto, all benefiting the property in the CFD, the issuance and sale of the bonds for the CFD financing, including incidental expenses, and to provide the terms of any reimbursement to owners of land within the CFD. The Mayor, the Finance Director, the City Manager, the City Attorney or such other person or persons as any one of them may designate (collectively, the "Authorized Officers"), each acting alone or together with any other Authorized Officer, is authorized and directed, on behalf of the City, to execute and deliver the Acquisition Agreement.

2. **Actions Authorized.** All actions heretofore taken by the Authorized Officers and other officers and agents of the City with respect to the Acquisition Agreement are hereby approved, confirmed and ratified, and each of the Authorized Officers is hereby authorized and directed to do any and all things and take any and all actions and execute any and all certificates, agreements and other documents, which or any of them may deem necessary or advisable in order to carry out the purpose of this Resolution, and any certificate, agreement, and other document described in the documents herein approved. All actions to be taken by an Authorized Officer may be taken by such Authorized Officer or any designee, with the same force and effect as if taken by the Authorized Officer.

3. **Effectiveness.** This Resolution shall take effect upon its adoption.

I hereby certify that the foregoing Resolution was duly adopted by the City Council of the City of Roseville, California, at a regularly scheduled meeting thereof, held on the ____ day of _____, 2016, by the following vote of the City Council:

AYES:	COUNCILMEMBERS
NOES:	COUNCILMEMBERS
ABSENT:	COUNCILMEMBERS
ABSTAIN:	COUNCILMEMBERS

Mayor

ATTEST:

City Clerk

**FUNDING, CONSTRUCTION AND ACQUISITION AGREEMENT
HP CAMPUS OAKS COMMUNITY FACILITIES DISTRICT NO. 1
(City of Roseville)**

This Funding, Construction and Acquisition Agreement ("**Agreement**") is entered into as of the ____ day of _____, 2016, by and between the **CITY OF ROSEVILLE**, a California charter city and municipal corporation (the "**City**"), and **BBC ROSEVILLE OAKS, LLC**, an Illinois limited liability company ("**Owner**").

Recitals

A. On September 22, 2015, the City Council of the City adopted Resolution No. 15-443 entitled "A RESOLUTION OF FORMATION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE TO FORM HP CAMPUS OAKS COMMUNITY FACILITIES DISTRICT NO. 1 (PUBLIC FACILITIES)" (the "**Resolution of Formation**") with respect to HP Campus Oaks Community Facilities District No. 1 (Public Facilities) (the "**District**") of the City pursuant to the Mello-Roos Community Facilities Act of 1982, as amended, Chapter 2.5 of Part 1 of Division 2 of Title 5, commencing with Section 53311, of the California Government Code (the "**Act**"), and subsequently authorized the issuance of bonds to finance District authorized improvements for development within the District; and

B. Owner owns all of the real property in the District, which is shown on the map recorded in the Placer County Recorder's Office on September 3, 2015 in Book 3 at Page 72, as Document No. 2015-0077844 of Maps of Assessment and Community Facilities Districts (the "**Property**"). The Property is located within the corporate limits of the City and comprises the land within the District.

C. Owner proposes to make improvements to the Property (the development of the Property is defined herein as the "**Project**") as required by the Project Approvals (as defined below), which Project includes construction of public facilities authorized to be financed by the District (the "**Public Facilities**" or separately, a "**Public Facility**"), described in the Resolution of Formation and attached as Exhibit A hereto, needed for development of the Project and authorized to be financed by special taxes of the District.

D. On August 1, 1996, the City and Hewlett-Packard Company ("**Hewlett-Packard**") entered into that certain agreement entitled "Development Agreement By and Between The City of Roseville and Hewlett-Packard Company Relative to the Roseville Master Plan" (the "**Original Development Agreement**"). The Original Development Agreement was recorded in the Official Records of Placer County on August 16, 1996, as Instrument No. 96-0047544 and re-recorded on March 25, 1998 as Instrument No. 98-0019739. On May 23, 2001, the City and Hewlett-Packard entered into that certain amendment entitled "First Amendment of Development Agreement By and Between The City of Roseville and Hewlett-Packard Relative to the Roseville Master Plan" ("**First Amendment**"); the First Amendment was recorded in the Official Records of Placer County on June 7, 2001, as Instrument No. 2001-0056191. On August 19, 2015, the City, Hewlett-Packard and Owner entered into that certain amendment entitled "Second Amendment for Parcels 1 and 4 of the Development Agreement By and Between The City of Roseville and Hewlett-Packard Company and BBC Roseville Oaks, LLC Relative to the Roseville Master Plan" (the "**Second Amendment**"); the Second Amendment was recorded in the Official Records of Placer County on August 21, 2015, as Instrument No.

2015-0073371. Also on August 19, 2015, the Original Development Agreement was amended by a "Third Amendment of Development Agreement By and Between The City of Roseville and Hewlett-Packard Company Relative to the Hewlett-Packard Property of the Roseville Master Plan" and a "Fourth Amendment of Development Agreement By and Between The City of Roseville and BBC Roseville Oaks, LLC Relative to the Campus Oaks Property of the Roseville Master Plan"; the Third Amendment and the Fourth Amendment were recorded in the Official Records of Placer County on September 16, 2015, as Instrument No. 2015-0081192 and Instrument No. 2015-0081193, respectively. The Original Development Agreement, as amended by the aforementioned amendments and any subsequent amendments, is referred to herein as the **"Development Agreement."** The Development Agreement, including conditions of approval, and other existing and subsequent approvals granted by City and agreements between Owner and City in implementation of the Project, as the same may be amended from time to time, including amendments thereto, are herein collectively referred to as the **"Project Approvals."**

E. Section 53313.5 of the California Government Code provides that a community facilities district may finance the purchase of public facilities completed after the adoption of the resolution of formation establishing the community facilities district if the facilities have been constructed as if they had been constructed under the direction and supervision, or under the authority of, the local agency whose governing body is conducting proceedings for the establishment of the District.

F. The purpose of this Agreement is to provide for the acquisition of public facilities authorized to be financed by the District, the issuance and sale of the bonds for the District to finance the design and acquisition of such public facilities and expenses incidental thereto and to provide the terms of any reimbursement to Owner.

AGREEMENTS

NOW, THEREFORE, in consideration of the preceding recitals and the mutual covenants hereinafter contained, the parties agree as follows:

1. **Establishment of District.** The City has conducted proceedings pursuant to the Act for the establishment of the District. Such proceedings included but are not limited to, elections pursuant to Sections 53326 and 53327 of the California Government Code on the questions of (i) the issuance of bonds for the District to finance the construction or acquisition of the Public Facilities, (ii) the annual levy of special taxes on all taxable property within the District to finance the Public Facilities and certain incidental expenses, including payment of certain impact fees and annual administrative expenses of the City and the District, including paying the principal and interest on bonds of the District, providing for the registration, exchange and transfer of such bonds, costs of issuance, including the fees of fiscal agents and paying agents, and any necessary replenishment for the reserve fund for such bonds, accumulation of funds for future bond payments, and (iii) the establishment of an appropriations limit for the District. Owner shall cooperate with City in its conduct of the proceedings for the establishment of the District.

Resolution No. 15-447 adopted on September 22, 2015 by the City Council of the City authorized the issuance of bonds payable from special taxes levied on taxable property within the District according to a methodology approved by the City and qualified electors in the District in order to finance a portion of the Public Facilities. An aggregate principal amount of \$36,000,000 of bonds are authorized to be issued by the District. It has not yet been

determined whether one series or multiple series of bonds will be issued. The timing of the issuance and sale of bonds, the aggregate principal amount thereof, and the terms and conditions upon which they shall be sold shall be reasonably determined by the City.

This Agreement is applicable to proceeds from the first series of such bonds only; such first series, as described in Section 2 hereof, is herein referred to as the “**Bonds.**” In the event additional series of bonds are issued, disbursement of proceeds of such later series of bonds for Public Facilities shall be as set forth in a separate agreement or amendment to this Agreement.

2. Sale of Bonds. The City shall proceed, as hereinafter provided, with the sale of bonds for the District in an aggregate amount to be determined by the City not to exceed \$36,000,000, for the purpose of raising an amount to pay for the design and construction or acquisition of a portion of the Public Facilities, impact fees for Public Facilities and related expenses. Said authorized Public Facilities and the estimated costs thereof are described in the Resolution of Formation.

3. Tax Requirements. The City shall take all actions which, in the opinion of City's bond counsel, are necessary in order to avoid classification of the Bonds as "arbitrage bonds" or the loss of tax exemption for the Bonds for any other reason.

4. Amounts to be Included in Bonds. The aggregate principal amount of the Bonds shall include an amount needed to fund a reserve fund for the payment of principal of and interest on the Bonds as is determined by the City to be necessary and appropriate, capitalized interest on the Bonds for such period as the City shall determine is appropriate, the amount of the discount of the underwriter who purchases the Bonds, and other expenses incurred by the City in connection with the issuance and sale of the Bonds, including bond counsel fees, legal fees, fees of the bank which will act as transfer agent, registrar and paying or fiscal agent for the Bonds, other fees and costs normally incidental to the sale of Bonds, and such other fees and costs enumerated in Section 53345.3 of the California Government Code as the City determines are necessary and appropriate. The City may also include within the aggregate principal amount of the Bonds an amount determined by the City to equitably reimburse Owner for costs and expenses incurred by it which are related to the establishment of the District and the design and construction of the Public Facilities; provided that the City shall determine the amount to be so reimbursed on the basis of detailed itemizations of costs provided by Owner and the decision of the City shall be final. In no event shall Owner be reimbursed from Bond proceeds for (i) in-house administrative overhead (except that Owner shall be entitled to payment equal to four percent (4%) of actual construction costs as and for project and construction management services, unless otherwise agreed by the City), (ii) interest expense incurred by Owner on moneys advanced during the proceedings for formation of the District and issuance of Bonds, and during construction of the Public Facilities; and (iii) any other costs and expenses incurred by Owner which are not authorized by the Act.

5. Design; Reimbursements. Public Facilities to be acquired by the City shall be designed in conformance with all applicable City standards and requirements, and the Development Agreement. Upon completion of the design of each such Public Facility to the satisfaction of the City and when Owner has paid to the City all applicable plan checking and other fees, the City shall notify Owner that the design of the Public Facility is completed and acceptable to the City. It shall be the responsibility of Owner, not the City, to determine the requirements for design and construction of Public Facilities to be acquired by or dedicated to

other public agencies, and City's acceptance of Owner's design shall not relieve Owner of this responsibility.

Owner has been authorized by the City to commence the design of the Public Facilities, and the City has approved Owner's retention of Morton & Pitalo, civil engineers, to design streets, traffic signals, water, sewer and storm drainage facilities, and [Fuhrman Leamy](#), landscape architects, to plan and design street median and open space landscaping. Owner may, after obtaining approval of the City, retain the services of additional consultants to design other portions of the Public Facilities. Any substitution of consultants after initial selection and approval shall require City's approval.

Owner shall be reimbursed out of the proceeds of the sale of the Bonds for Owner's expenses incurred in designing the Public Facilities, including all applicable plan checking and other fees paid by Owner as provided above in this Section, subject to the City's determination of the amount to be so reimbursed pursuant to the terms hereof, and subject to the limitation that reimbursement in all cases is to be made from available Bond proceeds and from no other source.

Notwithstanding the preceding provisions of this Section, if the City determines that Owner is not proceeding with the design of the Public Facilities on a reasonable schedule which will enable the City to insure that construction of all of the Public Facilities can be completed within the time specified in Section 6 hereof, the City may take over the design of the Public Facilities by giving Owner written notice thereof as provided in Section 14. If the City takes over the design of the Public Facilities, the City shall reimburse Owner from the proceeds of the sale of the Bonds a reasonable amount, reasonably determined by the City, for the expenses incurred by Owner in connection with the design of the Public Facilities which have not previously been reimbursed, provided there are sufficient funds remaining, after payment for the Public Facilities, to do so.

6. Construction for Acquisition. The City shall only be required to acquire from Owner those Public Facilities which will ultimately be owned by the City. Owner shall proceed with the construction of the Public Facilities in accordance with the approved plans and specifications (either prior to or following the formation and confirmation of the authority of the District). For construction of Public Facilities under this Section, Owner shall comply with all of the following requirements to insure that the Public Facilities will be constructed as if they had been constructed under the direction and supervision, or under the authority of the City:

The plans and specifications, the bidding and contract award procedures, and the bidding and contract documents shall be approved by the City Engineer for conformance with City Codes and policy.

Based on qualifications submitted by the contractors, Owner, in consultation with the City Engineer, shall select a list of qualified bidders for each element of work. If Owner determines that the nature of a particular element of the construction does not require a pre-qualified bid list, Owner may allow a particular element of the work to be publicly bid without a pre-qualified bid list.

(a) Owner shall receive and open bids, and report the results to the City Engineer. On elements of work with a pre-qualified bid list, bids will only be accepted from pre-qualified bidders. Any value engineering proposals shall be submitted to the

City Engineer for approval. The City Engineer may, after consulting with Owner, require changes to the work. Owner shall promptly order such changes. The City Engineer shall be consulted with respect to any proposed change to the originally-approved design. The contract or contracts for the construction of the Public Facilities shall be awarded to the lowest responsive, responsible bidder(s) for the construction of the Public Facilities, as determined by Owner.

(b) Owner is required, and the specifications and bid and contract documents shall require all contractors and subcontractors, to pay prevailing wages and to otherwise comply with applicable provisions of the California Labor Code, Government Code and Public Contract Code relating to public works projects of cities and as required by the procedures and standards of the City with respect to the construction of its public works projects.

(c) All contractors and subcontractors shall be required to provide proof of insurance coverage throughout the term of the construction of the Public Facilities which they will construct in conformance with the City's standard procedures and requirements.

(d) No contractor or subcontractor may be listed on a bid proposal for the Public Facilities unless registered with the Department of Industrial Relations pursuant to California Labor Code section 1725.5. No contractor or subcontractor may work on the Public Facilities unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. Owner shall be responsible for ensuring that these contractor registration requirements are adhered to since the Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

(e) As required by California Senate Bill 854 (Stat. 2014, chapter 28), Owner shall notify the Department of Industrial Relations of the Project within five (5) calendar days of the award of a contract to a contractor for the Public Facilities.

Owner shall cause the Public Facilities to be constructed in an expeditious manner so that construction of all such Public Facilities shall be completed by March 2019, or such earlier date as may be required by the Development Agreement or upon a later date which the City and Owner may agree; provided, however, that the construction of the Public Facilities shall proceed and be completed so that the proceeds of the Bonds may be expended for the construction or acquisition of the Public Facilities within three (3) years from the date of their issuance.

7. Payment; Cost Overruns; Shortfalls. The City and Owner agree that it is in their mutual best interest for Owner to construct the Public Facilities with the understanding that the City shall acquire those portions of the Public Facilities constructed by Owner as may be paid for with the proceeds of the sale of the Bonds; interest earnings on the reserve fund and improvement fund established in connection with the sale of the Bonds; excess special taxes, if available and in accordance with the Development Agreement and this Agreement and as determined by City; and Owner contributions. All portions of the Public Facilities not acquired with the proceeds of the Bonds shall nonetheless be constructed by Owner, as required by the Project Approvals. All cost overruns in the construction of the Public Facilities shall be the responsibility of Owner. Any cost savings achieved in an element of any of the Public Facilities constructed in whole or in part with the proceeds of the sale of the Bonds shall be aggregated with all other such savings achieved throughout the District, and shall be used for any other element of the Public Facilities, as approved by the City.

8. Inspection and Approval of Construction. The City shall provide such level of inspection of the progress of construction of the Public Facilities to be constructed by Owner for acquisition by the City as it deems necessary, and its inspectors shall have access to the construction sites at all times for the purpose of conducting their inspection. Owner and its contractors shall cooperate in every way with the City and its inspectors to ensure that they are afforded an adequate opportunity to inspect each and every phase of the progress of construction of each and every such Public Facility. Upon completion of the construction of a Public Facility (either in its entirety, or a portion thereof), constructed by Owner, and upon receipt of written notification from City's inspectors that construction thereof has been completed in accordance with the plans and specifications thereof and the City's standard requirements, and upon receipt of satisfactory proof, based on the records of Owner and the City and such certifications as the City may require, that the requirements of Section 6 hereof have been satisfied, the City shall notify Owner in writing that the construction of the Public Facility, or portion thereof has been satisfactorily completed; provided, however, that Owner, not the City, shall be responsible for determining satisfaction of requirements of other public agencies with respect to the Public Facilities. Upon receiving such notification of a completed Public Facility, the City Clerk staff shall file with the County Recorder of the County of Placer a Notice of Completion pursuant to the provision of Section 8182 of the California Civil Code, and supply to Owner a duplicate copy of each such Notice of Completion showing thereon the date of filing with the County Records. The costs incurred by the City in inspecting and approving the construction of the Public Facilities may be paid or reimbursed from the proceeds of the sale of the Bonds and any excess special taxes.

9. Liens. Upon the expiration of the time for the recording of claims of liens as prescribed by Section 8412 and Section 8414 of the California Civil Code, Owner shall provide to the City such evidence or proof as the City shall require that all persons, firms and corporations supplying work, labor, materials, supplies and equipment to the construction of the Public Facilities (or approved portion thereof) constructed by Owner for acquisition by the City have been paid, and that no claims of liens have been recorded by or on behalf of any such person, firm or corporation.

10. Acquisition; Maintenance. Upon completion of the construction of each Public Facility or portion thereof constructed by Owner for acquisition by the City, the City shall determine the acquisition price to be paid by the City for the acquisition of the completed Public Facility or portion thereof from Owner. The acquisition price as to each Public Facility or portion thereof shall include the actual cost of construction thereof as determined by the contract prices as set forth in contracts and purchase orders entered into by Owner with its contractors, and suppliers, in accordance with standards and procedures therefor as prescribed by the City. Owner shall furnish to the City such proof of the amounts which Owner contends should be included in the acquisition price for a completed Public Facility or portion thereof as the City shall require, together with lien releases from all contractors and suppliers providing work and materials for the completed Public Facility or portion thereof in form satisfactory to the City. The City shall have ten (10) calendar days to determine the acquisition price. The determination of the City as to the acquisition price for a completed Public Facility or portion thereof shall be final.

Upon determining the acquisition price for a completed Public Facility or portion thereof, the City shall promptly notify Owner in writing of such acquisition price. Upon presentation by Owner to the City of such documents, including lien releases, as the City shall require as to the completed Public Facility or portion thereof, the City shall, within ten (10) calendar days

thereafter, pay from the proceeds of the sale of the Bonds the amount of the acquisition price for the completed Public Facility or portion thereof but, in the case of a completed Public Facility for which certain Punch List work remains to be completed, less a retention of one hundred and fifty percent (150%) of the value of Punch List work not completed. Upon payment and acceptance of the acquisition price for each completed Public Facility or portion thereof, Owner shall have no further claim for payment from the City with respect to the retentions until completion of the Punch List work. The City shall hold the retention amount on all Public Facilities acquired until the Punch List work is completed and accepted by the City.

The administrative procedure to implement the foregoing is as follows, and may be subject to revision by City upon notice to Owner. Owner shall notify the City Engineer that a Public Facility, or particular stage of the Public Facility, is complete and shall furnish proof of the amounts to be included in the acquisition price, together with lien releases. Development Services staff shall then inspect the Public Facility to confirm completion. Development Services staff shall then notify City's Finance Department regarding completion and shall request payment to Owner. Within ten (10) calendar days thereafter, and provided that the improvement has been conveyed to City or irrevocably offered for dedication, or, in the case of Public Facilities for which progress payments are provided for in the Development Agreement, invoices for actual work constructed have been presented by Owner to the City and the particular Public Facilities have been signed off by City inspectors, City shall issue payment to Owner in the requested amount, further provided and to the extent that funds are available, except that Owner shall choose one of the following options prior to release of the final five percent (5%): (1) City shall retain five percent (5%) of the acquisition price until expiration of the one-year warranty period for the subject Public Facility; or (2) Owner shall obtain a maintenance bond until expiration of the one-year warranty period for the subject Public Facility. Upon expiration of the one-year warranty period, the five percent (5%) retention shall be disbursed to Owner or the maintenance bond shall be released, less any amounts utilized by the City for warranty work. Notwithstanding the preceding provisions of this Section, the City will not pay for the acquisition of any Public Facilities or portion thereof unless and until the street, drainage or other utility rights of way where they are located have been irrevocably offered to the City for dedication, except in the case of Public Facilities for which progress payments are to be paid by City as provided for in the Development Agreement, based on invoices for actual work constructed that have been signed off by City inspectors.

Until a Public Facility is acquired by the City, Owner shall maintain it, and shall transfer it to the City free of any liens and in good operating condition. Upon the acquisition of a Public Facility by the City, the City shall, except as otherwise provided in the Project Approvals, become responsible for its maintenance, subject to any contractor's warranty or maintenance provisions of bonds required under the Final Map or other City approval, or under any other agreement.

11. Indemnification; Insurance. To the fullest extent allowed by law, Owner shall defend, indemnify and hold harmless the City, the District, and their officers, agents, employees, and volunteers from any and all liability, cost and expense in connection with the construction of the Public Facilities to be constructed by Owner for acquisition by the City, including, but not limited to, liability, costs, expenses and claims arising, under the procedures set forth in Section 6. Owner shall also defend, indemnify and hold harmless the City, the District, and their officers, agents, employees, and volunteers from any and all liability, cost and expense in connection with the ownership of the Public Facilities to be constructed by Owner for acquisition by the City prior to the time the City accepts the Public Facilities, whether or not such Public Facilities are to be acquired with bond proceeds. Owner shall procure and provide or cause its general contractor to procure and provide, until construction of all of the

Public Facilities to be constructed by Owner is completed and acceptance thereof by the City has occurred, a broad form comprehensive general liability policy of insurance, in a form acceptable to the City, naming the City, the District and their officers, agents, employees, and volunteers as additional insureds, in the amount of: (i) for construction of a Public Facility over \$1,000,000, Five Million Dollars (\$5,000,000) each occurrence and Ten Million Dollars (\$10,000,000) aggregate as to all coverages provided thereby, and (ii) for construction of a Public Facility under \$1,000,000, Two Million Dollars (\$2,000,000) each occurrence and Four Million Dollars (\$4,000,000) aggregate as to all coverages provided thereby. Before commencing the construction of any Public Facility, Owner shall provide the City with a certification of insurance and endorsement as to such insurance in a form acceptable to the City, and Owner shall upon each renewal of such insurance policy provide the City with a new certificate of insurance with respect thereto.

Owner shall also furnish to the City, prior to commencing the construction of any Public Facility to be constructed by Owner for acquisition by the City, a certificate of insurance evidencing that Owner has procured or caused its general contractor to procure and has in force a current policy of workers' compensation insurance in compliance with California law as to all workers to be employed by Owner in connection with the design and construction of the Public Facilities. Owner shall require each person, firm or corporation with whom it contracts in connection with the design and construction of the Public Facilities to provide and maintain such workers' compensation insurance and a broad form, comprehensive general liability insurance policy in the amount hereinabove specified and in a form acceptable to the City. Owner shall provide to the City proof, in the form described below, that each contractor with whom it contracts has procured and is maintaining such insurance.

Upon the execution of each contract with each person, firm or corporation with whom Owner contracts in connection with the design and construction of the Public Facilities and prior to permitting any such person, firm or corporation to commence work under such contract, Owner shall provide to the City a certificate from the insurance providers for each such contractor that the contractor has in force the insurance policies required of it under this Section 11, that the City is named as an additional insured on the broad form comprehensive general liability insurance policy of such contractor, and that the policies will not be canceled, modified or allowed to lapse without thirty (30) calendar days written notice to the City.

The premiums paid by Owner for the insurance required by this Section may be included in the acquisition price to be paid by the City for the Public Facilities to be constructed by Owner as an incidental cost.

12. Ownership of Facilities. Notwithstanding that some of the Public Facilities to be constructed by Owner for acquisition by the City may be constructed in dedicated street rights-of-way or on property which has been or will be dedicated or offered for dedication to the City, the District or a public utility, such Public Facilities or any portion thereof shall be and remain the property of Owner, and Owner shall be responsible for any loss or damage thereto or liability arising therefrom, until they are acquired by the City or other agencies. Such ownership by Owner shall likewise not be affected by any agreement which Owner may enter into with the City pursuant to the provisions of the Subdivision Map Act, Section 66410 et seq. of the California Government Code, which may contain or include provisions with respect to the construction and ownership of public facilities which may seem to be contradictory to the provision of this Agreement, and the provisions of this Section shall control.

13. Improvement Security. Notwithstanding any other provisions of this Agreement, Owner shall be required to agree to construct and to secure the construction and completion of construction of the Public Facilities, or portions thereof, as a condition precedent to the approval of subdivision or parcel maps for portions of the Property as required by the City pursuant to Section 66462 and Sections 66499 through 66499.10 of the California Government Code.

The aggregate principal amount of the improvement bonds or other security provided by Owner pursuant to this Section shall be reduced by such amount as the City shall determine is appropriate upon receipt of the proceeds from the sale of the Bonds. The amount of the reduction of such aggregate principal amount shall be determined by the City based on the amount of each such improvement bond or other security which relates to the Public Facilities to be constructed or acquired with the proceeds of the sale of the Bonds.

All subdivision and performance bonds shall provide, inter alia, that the principal thereof whether that be Owner or its contractor(s), guarantees that the completed Public Facilities shall be free from defects resulting from faulty workmanship and materials for a period of one year from the date of acceptance by the City, and the obligation of the surety shall extend to the fulfilling of that guarantee. At the end of said one year period and subject to certification of the City Engineer that any defects have been corrected, the obligation of the principal and surety named therein shall cease.

14. Failure to Complete Construction. Notwithstanding the preceding provisions of this Agreement, if Owner fails to expeditiously prosecute the construction of the Public Facilities to be constructed by Owner for acquisition by the City, the City shall have the right and may elect to take over the construction of such Public Facilities, or any part thereof, if City determines it is necessary for City to so proceed in order to protect the City's interests. If the City elects to so proceed, it shall notify Owner in writing that if Owner does not satisfy the City that construction is proceeding expeditiously on the construction of a Public Facility within thirty (30) calendar days after receipt of such notice, the City will take over the construction of such Public Facilities. If after receiving such a written notification, Owner does not satisfy the City that it is proceeding expeditiously to construct that portion of the Public Facilities identified in the written notification to the satisfaction of the City, within thirty (30) calendar days from the date of receipt thereof, Owner shall relinquish to the City all design documents, plans and specifications, and shall cooperate with the City in every way to ensure that the construction of the Public Facilities will be completed expeditiously.

Notwithstanding the provisions of this Section, the only sources of funds to be utilized by the City for the construction of any such Public Facilities shall be (i) the proceeds of the sale of the Bonds and, at City's discretion, (ii) the proceeds of applicable City development fees collected pursuant to the applicable codes, ordinances and policies of the City, including development fees paid through levies of the special taxes of the District, (iii) proceeds from the sale of the bonds of another community facilities district or assessment district established over and including property in the City, (iv) interest earnings on the reserve fund for the Bonds, to the extent such earnings are determined by the City to be available for construction of the Public Facilities, (v) Owner's subdivision bond or bonds to the extent applicable, (vi) any other performance security that may have been provided by Owner, and (vii) Owner's and/or contractors' performance bonds. To the extent that the proceeds of the sale of the Bonds and such other funds may be insufficient to pay for the construction of a Public Facility which will be constructed by the City pursuant to this Section, the City may either construct only those Public Facilities which can be constructed within the total of the amounts of the proceeds from the sale of the Bonds and such other funds which are available therefor, or the City may proceed to

complete the Public Facilities and charge Owner, Owner's bond or any contractor's bond for the costs thereof.

15. Owner Responsibility for Satisfaction of Improvements required by Conditions of Approval. If the Bonds are not sold in an aggregate principal amount sufficient to construct and acquire all of the Public Facilities, Owner shall nevertheless construct and dedicate to the City the Public Facilities required by the Project Approvals, and the City may require such assurances of performance as the City deems appropriate, provided however the City shall cooperate with Owner to provide for a levy of the component of the special taxes referred to in the Rate and Method of Apportionment, and Manner of Collection of Special Tax (the "**RMA**") for the District as the "Pay-As-You-Go-Basis" (as defined in the RMA) component, for a period not exceeding the first 10 years of the Special Tax levy to reimburse Owner for an amount, when added to the amount deposited into the Improvement Fund established under the Fiscal Agent Agreement upon issuance of the Bonds, equal to \$22 million, representing that amount of costs of Public Facilities not paid from proceeds of the Bonds. Such pay-as-you-go component shall be generated by levying 100% of the maximum special tax on all Taxable Parcels within the District during such 10-year period, consistent with the RMA and this Agreement (excluding, however, the period when no special tax would otherwise be levied in consideration of the reservation of capitalized interest from the Bond sale). In addition to such reimbursement City and Developer agree that Developer shall receive an interest component amount, as referred to in Section 3.22.1(i)(e) of the Development Agreement, for any authorized Public Facility reimbursed provided with pay-as-you-go proceeds at a rate based on the then most recent May rate established by the Engineering News-Record Construction Cost Index for the Twenty (20) City Average plus San Francisco, calculated for a time period from the date of approval by the City of the reimbursement request to the date of payment.

16. Construction of Other Facilities. Owner shall also proceed expeditiously with the design and construction of the other improvements and facilities, other than the Public Facilities, which are necessary to the development of the Property and the provision of municipal services within the District and to the residents therein. Such other public improvements and facilities shall be designed and constructed on a schedule which will not delay or interfere in any way with the design and construction of the Public Facilities. The provisions of this Section shall not supersede those of any other agreement between Owner and the City.

17. Development Schedule. Owner shall also proceed with the development of the Property with all reasonable diligence to ensure that such development is completed in a reasonable time. If Owner does not so proceed with the development of the Property, the City may take action as specified in Section 14 hereof and, in addition, may withhold payment of acquisition costs hereunder.

18. Termination. If for any reason the City is unable to sell the Bonds, this Agreement shall not become effective.

19. Binding on Community Facilities District. The District shall automatically become a party to this Agreement to the extent permitted by California law, and all provisions hereof which apply to the City shall also apply to the District. The City Council of the City, acting as the legislative body of the District, shall perform all parts of this Agreement which require performance on the part of the District.

20. Assignment. Owner may not assign this Agreement or any right or duty hereunder without the express written approval of the City. The City may condition any such

approval on proof of the financial responsibility and experience of a proposed assignee to undertake and perform the duties and responsibilities of Owner under this Agreement. The City's approval of an assignment of this Agreement and the rights and duties of Owner hereunder shall not be unreasonably withheld.

21. Prompt Action. All consents, approvals and determinations required of either the City or Owner pursuant to this Agreement shall be promptly given or made, and shall not be unreasonably withheld.

22. General. This Agreement, together with the agreements and other undertakings described herein, contains the entire agreement between the parties with respect to the matters herein provided for, and may be amended by a subsequent written agreement signed on behalf of both parties. This Agreement is for the exclusive benefit of Owner and the City and shall not be construed to confer any rights or benefits upon any persons other than the City and Owner. This Agreement shall, however, inure to the benefit of and be binding upon the successors and assigns of the parties. This Agreement shall be construed and governed by the Constitution and laws of the State of California. Should either party to this Agreement commence a court action or proceeding against the other party with respect to this Agreement or the design and acquisition or construction of the Public Facilities, the party prevailing in such action or proceeding shall be entitled to receive from the losing party its attorney's fees, expert witness fees, court costs, and other costs incurred by it in prosecuting or defending such action or proceeding. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. The captions of the sections of this Agreement are provided for convenience temporarily, and shall not have any bearing on the interpretation of any section hereof. This Agreement may be executed in several counterparts, each of which shall be an original of the same Agreement. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Agreement by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____ adopted by the Council of the City of Roseville on the ____ day of _____, 2016.

CITY:

CITY OF ROSEVILLE,
a municipal corporation

By: _____
Rob Jensen, City Manager

ATTEST:

Sonia Orozco, City Clerk

APPROVED AS TO FORM:

Robert R. Schmitt, City Attorney

APPROVED AS TO SUBSTANCE:

Jay Panzica
Chief Financial Officer

OWNER:

BBC ROSEVILLE OAKS, LLC,
an Illinois limited liability company

By: _____
Stephen L. Des Jardins
Member

EXHIBIT A

DESCRIPTION OF THE FACILITIES

Transportation Improvements

Improvements to the following roadways, as well as other public roadway improvements designed to meet the needs of the project:

- Woodcreek Oaks Boulevard
- Blue Oaks Boulevard
- HP Way
- Painted Desert Drive
- Crimson Ridge Drive
- New Meadow Drive

Eligible roadway improvements include, but are not limited to, these: acquisition of land and easements; roadway design; project management; bridge crossings and culverts; clearing, grubbing, and demolition; grading, soil import/export, paving (including slurry seal), and decorative/enhanced pavement concrete or pavers; joint trenches, underground utilities, and undergrounding of existing utilities; dry utilities and appurtenances; curbs, gutters, sidewalks, bike trails (including onsite and off-site), enhanced fencing, and access ramps; street lights, signalization, and traffic signal control systems; bus turnouts and shelters; signs and striping; erosion control; median and parkway landscaping and irrigation; entry monumentation; Bus Rapid Transit improvements, including transfer stations and park-and-ride facilities; regional public transit improvements; masonry walls; traffic control and agency fees; and other improvements related thereto. Eligible improvements for the roads listed above also include any and all necessary underground potable and non-potable water, sanitary sewer, and storm drainage system improvements.

Potable and Non-Potable Water System Improvements

Authorized facilities include any and all on- and off-site backbone water and recycled (or non-potable) water facilities designed to meet the needs of development of the project. These facilities include, but are not limited to, potable and non-potable mains, valves, services, and appurtenances; wells; and water treatment and storage facilities.

Facility improvements include, but are not limited to, these: site clearing, grading, and paving; curbs and gutters; recycled water storage tanks, booster pump stations, and all appurtenances thereto; wells; water treatment; stand-by generator; site lighting, drainage, sanitary sewer, and water service; landscaping and irrigation; access gates and fencing; and striping and signage:

- Water lines in all authorized facility roads.
- Recycled water lines in all authorized facility roads.
- Recycled water lines in all City parks.
- Well construction on Lot 24 (CO-76).
- Off-site recycled water pump station improvements.

Drainage System Improvements

Authorized facilities include any and all on-site and off-site backbone drainage and storm drainage improvements designed to meet the needs of development of the Project. These facilities include, but are not limited to, mains, pipelines and appurtenances; outfalls and water quality measures, temporary drainage facilities, detention/retention basins, and drainage pretreatment facilities; drainage ways/channels, pump stations, landscaping, and irrigation; access roads, gates, and fencing; and striping and signage:

- All storm drain lines and facilities in authorized facility roadways.
- Detention and drainage facilities.
- Outfall channel improvements on Lots 1, 2, 4, and 5 (CO-31, CO-41, CO-42, and CO-51).

Wastewater System Improvements

Authorized facilities include any and all backbone wastewater facilities designed to meet the needs of development of the Project. These facilities include, but are not limited to, pipelines and all appurtenances thereto, manholes, tie-in to existing main line, force mains, lift stations, odor-control facilities, sewer treatment plant improvements and permitting related thereto, and related sewer system improvements:

- All wastewater facilities in authorized facility roadways.

Park and Paseo Improvements

Authorized facilities include any and all improvements to parks and paseos located in the Project:

- Construction of Park Sites HP-2, CO-64, CO-61, and CO-62.
- Construction of Paseo Sites CO-63 and CO-65.

Open Space Improvements

Authorized facilities include any and all open space improvements designed to meet the needs of development of the Project, including, but not limited to, bike trails, bike/pedestrian bridges, storm drain crossings, storm drain detention/retention, wetland mitigation, tree mitigation, off-site hawk mitigation, agricultural mitigation or wetland mitigation, property acquisition, endowment payments for open space management, landscaping and irrigation, access gates and fencing, and related open space improvements:

- Improvements related to CO-81 and CO-82 other than those included in the Storm Drain section above. Wetland creation mitigation, fencing, etc.

Utilities

Authorized facilities include any and all utility improvements designed to meet the needs of development of the Project. All utility improvements, easement payments, and land acquisition not located under or alongside transportation improvements are considered authorized facilities.

Other Public Facilities

Authorized facilities include any and all public facilities or infrastructure, including the Project's pro rata contribution to the land acquisition of the off-site fire station site; site clearing; grading; and street frontage improvements, including curbs, gutters, and paving:

- Fire Station site acquisition and improvement obligations on Lot 6 (CO-75).

Formation, Administrative, and Incidental Expenses

In addition to the above facilities, other incidental expenses as authorized by the Mello-Roos Community Facilities Act of 1982, include, but are not limited to, these: the cost of planning, permitting, approving, and designing the facilities (including the cost of environmental evaluation, orthophotography, environmental remediation/mitigation, and preparation of an overarching Operation and Maintenance [O&M] Plan for the City of Roseville Open Space Preserves); land acquisition and easement payments for authorized CFD facilities; project management, construction staking; engineering studies and preparation of an engineer's report for the use of recycled water; utility relocation and demolition costs incidental to the construction of the public facilities; cost associated with the creation of the CFD, issuance of bonds, determination of the amount of taxes, collection of taxes, payment of taxes or costs otherwise incurred to carry out the authorized purposes of the CFD; reimbursements to other areas for infrastructure facilities or planning purposes serving development in the CFD; and any other expenses incidental to the construction, completion, and inspection of the facilities and related expenses associated with any of the foregoing.



COUNCIL COMMUNICATION

CC #: 7481

File #: 0201-01 & 0203-06

Title: Accela Hardware Purchase - Budget Adjustment
Contact: Brandy LeBeau 774-5278 blebeau@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.15.

RECOMMENDATION TO COUNCIL

Adopt an ordinance approving a Budget Adjustment for the future purchase of Accela related hardware from the Development Services Engineering and Building Divisions Budgets to the Accela Project Budget.

BACKGROUND

On December 12, 2011 the City authorized the City Manager to enter into a Licensing Agreement with Accela Inc. for Accela Automation - Land Management, Citizen Access, Mobile Office and Geographic Information System (GIS) software to upgrade the City's permit system. The upgrade to the permitting system was done to enhance transparency and accountability by providing on-line access to City processes and project information (i.e. permit and inspection status). The project enhances the quality of service by reducing processing time, increasing accessibility of information and provides consistency in the work product. The Accela Automation project has resulted in a multi-department integration that provides a high level of customer service.

Since the original approval, the software has been installed and historical data has been migrated to the new system. The City has had a very successful launch of the new system on July 1, 2013, bringing the project to a go live status on schedule and within budget.

At this time, the Mobile Office component of this project is being developed and tested, but the equipment will be purchased in FY17. The funding for the Engineering field inspectors and Building inspectors hardware needs was established in the FY16 budget. In an effort to ensure that the funding for the hardware purchase is complete, monies from the Development Services Engineering and Building Division budget in the combined amount of \$43,000 are requested to be transferred to the Accela CIP project budget.

FISCAL IMPACT

There will be no fiscal impact to the City as a result of this action. These monies are budgeted in

the FY16 Development Services Building and Engineering Division budgets. This budget adjustment simply allocates the funds to the Accela project fund.

ECONOMIC DEVELOPMENT / JOBS CREATED

Based on federal guidelines approximately one job is created for every \$92,000 in direct government spending. Since this is a budget adjustment, no jobs will be created.

ENVIRONMENTAL REVIEW

A budget adjustment is not considered a project defined by the California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines 15061(b) (3)).

Respectfully Submitted,

Brandy LeBeau, Administrative Analyst

Kevin Payne, Development Services Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Ordinance No. 5637

Accela Budget Adjustment

ORDINANCE NO. 5637

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16
BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY
EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2015-16, is hereby amended by transferring appropriation to and from the activities indicated below:

Appropriate funds for Accela Hardware per request of the Development Services Department, as listed on the attached Request for Budget Adjustment in the amount of \$43,000.00.

SECTION 2. This ordinance is hereby declared to be an appropriation measure, immediately effective pursuant to the provisions of Section 5.03 of the Charter.

SECTION 3. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the ordinance book, under the record of the ordinance, a certificate under her hand stating the time and place of such publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville, this
_____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



REQUEST FOR BUDGET ADJUSTMENT
FINANCE DEPARTMENT

Instructions: Complete all necessary fields. Fields marked with an asterisk (*) are mandatory and required for processing. Obtain required approvals and process according to the procedure outlined in:
A.R. 6.01 Budget Adjustment Policy & Procedure.

REQUESTER*: Brandy LeBeau

DEPARTMENT/DIVISION*: Development Services

FISCAL YEAR/EFFECTIVE DATE*: FY16 - January 29, 2016

PROPOSED COUNCIL DATE (if applicable):

For more detailed budget adjustment training information, including examples, please click on the following link:
Miscellaneous Budget Training Information.

USE OF FUNDS*						
AMOUNT*	ACCOUNT NUMBER					Account Title/Activity Description*
	GL			JL		
	ORG KEY*	OBJECT*	FUND*	PROJECT	ACTIVITY	
30,000	90016	5216	216	129006	40	Accela Hardware for Building Inspectors
13,000	90016	5216	216	129006	40	Accela Hardware for Engineering Inspectors
43,000	00216	3902	216	129006		Transfer from GF
\$ 86,000	TOTAL					

SOURCE OF FUNDS*						
AMOUNT*	ACCOUNT NUMBER					Account Title/Activity Description*
	GL			JL		
	ORG KEY	OBJECT	FUND*	PROJECT	ACTIVITY	
30,000	08810	5216	0100			Accela Hardware for Inspectors
13,000	08820	5216	010			Accela Hardware for Inspectors
43,000	00100	8902	100	129006		Transfer to Fund 216
\$ 86,000	TOTAL					

FINANCE USE	Approved: BUDGET MANAGER / DESIGNEE	DATE: 2/17/16	Comments:
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Justification for Budget Adjustment*:

Moving the Accela Hardware for Mobile Office budget from the individual org keys to the CIP project.

Approved: REQUESTING DEPARTMENT HEAD / DESIGNER	DATE: 2/17/17	Approved: CITY MANAGER	DATE:
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COUNCIL COMMUNICATION

CC #: 7486

File #: 0201-01 & 0717-01

Title: Fiddymment House Improvements - Budget Adjustment

Contact: Tara Gee 774-5253 tgee@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.16.

RECOMMENDATION TO COUNCIL

1) Approve the budget adjustment request allocating:

a) \$200,000.00 from the Public Facilities Fund for a historic preservation assessment and first phase renovations to the historic Fiddymment homestead, located on parcel F-56; and

b) \$71,000.00 from the West Roseville City-wide Park Fund for demolition of the house off of Fiddymment Road and security fencing of the padded area for storage and an initial home inspection of the historic homestead, which is planned for preservation.

BACKGROUND

In late 2015, parcel F-54 adjacent to Fiddymment Road was deeded to the City. Approximately half of this 91 acre parcel is Preserve containing a creekway and Oak woodlands. This parcel also has a house and pool that is currently unoccupied. As is, it poses a concern regarding vandalism and illegal activities. Since the house has no historic value, plans are to demolish the house and use the padded areas for future support facilities for the park and maintenance operations. In the interim, between demolition and development, the padded area will be used as a fenced satellite corporation area.

Parcel F-56 is approximately 44 acres and is the site of the historic Fiddymment homestead and future joint use/regional park site. The location is off of High School Road on the east and bounded on the west by West Park Drive. A portion of this site is also slated to be developed as part of the Placer Valley Sports Complex (PVSC). Funding is being requested to secure the homestead area with fencing, hire a historic preservationist to assess the house and immediate surroundings, make recommendations to restore the house and surroundings consistent with the 1800s and to make any immediate repairs that may be necessary to preserve the house from further deterioration. This parcel is in the process of being deeded to the City.

FISCAL IMPACT

The budget adjustment requests \$200,000.00 from the Public Facilities Fund, focused on the historic homestead and \$71,00.00 from the West Roseville City-wide Park Fund for demolition, fencing and inspection. These improvements will result in a short term savings of staff resources by ensuring a level of security and removing an attractive nuisance:

- 1.) Demolition of house on Fiddymont Road
- 2.) Security fencing and
- 3.) A historical assessment to preserve the Historical Fiddymont Homestead.

ECONOMIC DEVELOPMENT / JOBS CREATED

The work described will be performed by multiple trades and experts. Based on Federal guidelines, there is one job created for every \$92,000.00 in direct government spending. Based on that figure, 2.9 new jobs will be created as a result of this project.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15061(b)(3)). The budget adjustment for this project does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Tara Gee, Park Planning & Development Superintendent

Dion Louthan, Parks, Recreation & Libraries Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Ordinance No. 5640

Budget Adjustment

ORDINANCE NO. 5640

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16
BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY
EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2015-16, is hereby amended by transferring appropriation to and from the activities indicated below:

Appropriate funds for the Fiddymment House Improvements Project per request of the Parks, Recreation & Libraries Department, as listed on the attached Request for Budget Adjustment in the amount of \$270,750.00.

SECTION 2. This ordinance is hereby declared to be an appropriation measure, immediately effective pursuant to the provisions of Section 5.03 of the Charter.

SECTION 3. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the ordinance book, under the record of the ordinance, a certificate under her hand stating the time and place of such publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville, this
_____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



REQUEST FOR BUDGET ADJUSTMENT FINANCE DEPARTMENT

Instructions: Complete all necessary fields. Fields marked with an asterisk (*) are mandatory and required for processing. Obtain required approvals and process according to the procedure outlined in: [A.R. 6.01 Budget Adjustment Policy & Procedure.](#)

REQUESTER*: Dion Louthan/Tara Gee/Genna Martin

DEPARTMENT/DIVISION*: Parks, Recreation & Libraries

FISCAL YEAR/EFFECTIVE DATE*: FY2015-16

PROPOSED COUNCIL DATE (if applicable): 03/02/2016

For more detailed budget adjustment training information, including examples, please click on the following link:
[Miscellaneous Budget Training Information.](#)

USE OF FUNDS*						
AMOUNT*	ACCOUNT NUMBER					Account Title/Activity Description*
	GL			JL		
	ORG KEY*	OBJECT*	FUND*	PROJECT	ACTIVITY	
270,750	50105	6130	229	TBD		Fiddymment Houses Capital Improvement Project
200,000	00229	3902	229			Transfer In to City-Wide Parks-WRSP (229)
						from Public Facilities Fund (222)
\$ 470,750	TOTAL					

SOURCE OF FUNDS*						
AMOUNT*	ACCOUNT NUMBER					Account Title/Activity Description*
	GL			JL		
	ORG KEY	OBJECT	FUND*	PROJECT	ACTIVITY	
70,750			229			City-Wide Parks-WRSP - Fund Balance
200,000			222			Public Facilities Fund - Fund Balance
200,000	00222	8902	222			Transfer Out from Public Facilities Fund (222)
						to City-Wide Parks-WRSP (229)
\$ 470,750	TOTAL					

FINANCE USE	Approved:	Comments:
	 BUDGET MANAGER/DESIGNEE	2/10/16 DATE

Justification for Budget Adjustment*:

The PR&L Department is requesting authority to establish a new Fiddymment Houses Capital Improvement Project (Project TBD) (\$270,750). This project will be funded with available fund balance from the Public Facilities Fund (Fund 222) (\$200,000) and the Citywide Park Development - WRSP Fund (Fund 229) (\$70,750), so there is no impact to the General Fund.

Approved:	Approved:
 REQUESTING DEPARTMENT HEAD / DESIGNEE	2-10-16 DATE
	CITY MANAGER DATE



COUNCIL COMMUNICATION

CC #: 7488

File #: 0201-01 & 0800-02

Title: Water Contracting Support - Professional Services Agreement Amendment and Budget Adjustment

Contact: Carol Margetich 746-1712 cmargetich@roseville.ca.us

Meeting Date: 3/2/2016

Item #: 7.17.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution authorizing the City Manager to execute an amendment to a professional services agreement with Municipal Consulting Group, LLP, and adopt an ordinance to approve a budget adjustment in the amount of \$88,400 from the Environmental Utilities Water Operations Fund

BACKGROUND

The Environmental Utilities Department has contracted with Municipal Consulting for support responding to Bureau of Reclamation (USBR) cost allocation, rate setting and financial management. The USBR has proposed actions that warrant supplemental efforts on the part of both staff and consultant services. Staff is requesting the proposed amendment to the existing contract for continued support on USBR water rate, budget and financial issues including review and constructing a joint regional solution to proposed policies for Warren Act rates, assessing impacts to water rates of future CVPIA and Cal WaterFix related costs, and strategies for involvement in Reclamation's budget formulation process.

FISCAL IMPACT

The approved FY16 budget allocated monies to cover the cost of expected consulting services. However, unanticipated issues warrant supplemental consulting expertise. The requested increase of \$88,400.00 is included in the Environmental Utilities Water Operations Fund. Funds are available to cover the cost of these additional services to support the City's efforts.

ECONOMIC DEVELOPMENT / JOBS CREATED

This Professional Services Agreement amendment, by itself, does not create additional jobs.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15061(b)(3)). The consulting services in support of Bureau of Reclamation cost allocation, water rates, budget and financial issues does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Carol Margetich, Business Services Administrator

Richard Plecker, Environmental Utilities Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-71

PSA 1st Amendment MCG

MCG Scope of Work

Ordinance No. 5641

Budget Adjustment

RESOLUTION NO. 16-71

APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT BY
AND BETWEEN THE CITY OF ROSEVILLE AND MUNICIPAL CONSULTING GROUP,
LLP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE
CITY OF ROSEVILLE

WHEREAS, a first amendment to professional services agreement regarding the State
and Regional Water Supply Support Project, by and between the City of Roseville and Municipal
Consulting Group, LLP, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that
said first amendment is hereby approved and that the City Manager is authorized to execute it on
behalf of the City of Roseville; and

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of
_____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES AGREEMENT**

Project: State and Regional Water Supply Support

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and Municipal Consulting Group, LLP, a California limited liability partnership ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Professional Services Agreement dated November 5, 2015 ("Agreement") regarding State and Regional Water Supply Support ("Project"); and

WHEREAS, CITY desires to amend the Agreement to include additional services as described in CONSULTANT's letter/proposal dated February 5, 2016, which is attached hereto as Exhibit "A" and incorporated herein by reference; and

WHEREAS, CONSULTANT is willing and able to provide such additional services; and

NOW, THEREFORE, the parties agree as follows:

1. CONSULTANT shall provide additional services as described in Exhibit "A" of this First Amendment to Agreement.
2. Paragraph 2 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY shall pay eighty-eight thousand, four hundred dollars (\$88,400), in consideration of the additional services as set forth in Exhibit "A" to the First Amendment to Agreement. This brings the total not to exceed contract amount to one hundred nine thousand, nine hundred dollars (\$109,900)."

3. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

MUNICIPAL CONSULTING GROUP,
LLP, a limited liability partnership

BY: _____
ROB JENSEN
City Manager

BY: 
its: Owner / Partner

ATTEST:

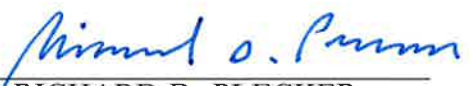
BY: _____
SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

[SIGNATURES CONTINUED ON NEXT PAGE]

APPROVED AS TO SUBSTANCE:

BY: 

RICHARD D. PLECKER
Environmental Utilities Director

EXHIBIT “A”



Municipal Consulting Group, LLP

Scope of Work Task Summary

Task	Description	Consultant	
		Hours	Cost
1	Bureau of Reclamation cost allocation, rate setting and financial management. Continued support on Reclamation cost allocation, water rate, budget and financial issues including review and joint regional solution to proposed policies for Warren Act rates, assessing impacts to water rates of future CVPIA and Cal WaterFix related costs, and strategies for involvement in Reclamation's budget formulation process.	150	21,000
2	USBR Long-Term Contract Renewal - The City currently is on an "Interim Renewal Contract" with the Bureau of Reclamation for their long-term water supply. The Record of Decision was Recently signed by Reclamation's Commissioner which opened the door to re-engage Reclamation to finalize the "Long-term Contract". MCG and their Sub-Consultants will assist the City in working with the Bureau to finalize the City's "Long-Term Contract". shepherding the process through the various Actions needed to complete the contract.	35	7,000
3	Folsom Pumping Plant Capacity Allocation - Roseville's initial Long-Term contract with the Bureau of Reclamation identified a delivery capacity that was available to the City, "If" they expanded the existing pump station at Folsom Dam. The City facilitated that expansion and received federal funding for the project, but has not yet formalized the allocation of capacity among the partners that use the facility. To ensure that the City has access to 150 cfs (96.8 mgd) of delivery capacity, and agreement between Roseville, San Juan Water District, City of Folsom and the Bureau needs to be put in place. MCG and their Sub-Consultants will assist the City in developing the contract as well as facilitating the meetings with their partners and shepherding the contract through the various processes needed to complete the contract.	41	8,200
4	USBR Section 215 Contract - Assist the City in developing a renewable 215 Water Supply Contract. This contract, when exercised, will enable the City to purchase "spilled" water for flood control for a substantially reduced price. This water can then be used as a supply source for the City's Aquifer Storage and Recovery Program. MCG and Sub Consultants will work with both Reclamation Staff and City Staff to secure a renewable contract template to acquire Section 215 Water from the Bureau when it is available.	16	3,200
5	Miscellaneous Support - MCG and their Sub Consultants will be on call to provide support on various topics like federal actions being taken by the Bureau of Reclamation, State Water Topics, or issues Staff may need assistance with. A pool of hours for both MCG and their Sub Consultants is being established for this purpose.	200	18,000
		442	88,400



The table on the previous page summarizes the Scope of Work we've been asked to provide. The identified amount of \$88,400 is a not to exceed amount unless authorized by the Roseville City Council.

If you have any future questions, please don't hesitate to give us a call.

Thank You
Derrick Whitehead, PE
Partner, Municipal Consulting Group

ORDINANCE NO. 5641

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16
BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY
EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2015-16, is hereby amended by transferring appropriation to and from the activities indicated below:

Appropriate funds for State and Regional Water Supply Support per request of the Environmental Utilities Department, as listed on the attached Request for Budget Adjustment in the amount of \$88,400.00.

SECTION 2. This ordinance is hereby declared to be an appropriation measure, immediately effective pursuant to the provisions of Section 5.03 of the Charter.

SECTION 3. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the ordinance book, under the record of the ordinance, a certificate under her hand stating the time and place of such publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville, this
_____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



REQUEST FOR BUDGET ADJUSTMENT FINANCE DEPARTMENT

Instructions: Complete all necessary fields. Fields marked with an asterisk (*) are mandatory and required for processing. Obtain required approvals and process according to the procedure outlined in:

[A.R. 6.01 Budget Adjustment Policy & Procedure.](#)

For more detailed budget adjustment training information, including examples, please click on the following link:

[Miscellaneous Budget Training Information.](#)

REQUESTER*: Carol Margetich, Business Services Administrator

DEPARTMENT/DIVISION*: Environmental Utilities, Business Services

FISCAL YEAR/EFFECTIVE DATE*: FY16

PROPOSED COUNCIL DATE (if applicable): 03/02/2016

USE OF FUNDS*						
AMOUNT*	ACCOUNT NUMBER					Account Title/Activity Description*
	GL			JL		
	ORG KEY*	OBJECT*	FUND*	PROJECT	ACTIVITY	
88,400	08430	5101	480			Water Utility Administration
\$ 88,400	TOTAL					

SOURCE OF FUNDS*						
AMOUNT*	ACCOUNT NUMBER					Account Title/Activity Description*
	GL			JL		
	ORG KEY	OBJECT	FUND*	PROJECT	ACTIVITY	
88,400			480			Environmental Utilities Water Operations
\$ 88,400	TOTAL					

FINANCE USE	Approved: <i>Shirley Cullen</i> 2/14/16 BUDGET MANAGER/DESIGNEE DATE	Comments:
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Justification for Budget Adjustment*:

Staff is requesting the proposed amendment to the existing contract for continued support on USBR water rate, budget and financial issues including review and constructing a joint regional solution to proposed policies for Warren Act rates, assessing impacts to water rates of future CVPIA and Cal WaterFix related costs, and strategies for involvement in Reclamation's budget formulation process.

Approved: <i>Michael D. Parnas</i> 2/14/16 REQUESTING DEPARTMENT HEAD / DESIGNEE DATE	Approved: CITY MANAGER DATE
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COUNCIL COMMUNICATION

CC #: 7497
File #: 0600-01

Title: Staffing and Salary Schedule Changes
Contact: Linda Hampton 774-5215 lhampton@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.18.

RECOMMENDATION TO COUNCIL

Staff recommends deleting the classifications of E-Government Analyst I/II, IT Planning and Policy Supervisor and Building Maintenance Supervisor and approving allocation changes to reflect current staffing levels. Also staff is requesting increasing a Payroll Clerk allocation in the Finance Department from a 0.5 FTE (full time equivalent) to a 0.6 FTE and reclassifying a vacant Office Assistant allocation to an Administrative allocation in the Electric Department to better meet the business needs of the City. In addition to correct an administrative error, staff is requesting the approval of the CCAP salary schedule to reflect already approved salary changes. It is recommended that City Council take the following actions:

1. Adopt an ordinance to approve the attached Local 39 A & B salary schedules (Appendix B) reflecting the deletion of E-Government Analyst I/II (1707/1709, B436/B437) and IT Planning & Policy Analyst I/II (3613/3614, B468/B467) effective March 5, 2016; and,
2. Adopt an ordinance to approve the attached CCAP salary schedule (Appendix B) reflecting a 2% increase approved by council on January 6, 2016 effective January 9, 2016; and,
3. Adopt an ordinance to approve the attached Management A & B salary schedules (Appendix B) reflecting the deletion of IT Planning & Policy Supervisor (3600, B780) and Building Maintenance Supervisor (1025, B716) effective March 5, 2016; and,
4. Motion to approve the attached city-wide allocation schedule effective March 5, 2016.

BACKGROUND

As part of the Municipal Code, the Human Resources Department is charged with maintaining the City's classification plan.

Throughout the year, council has approved new allocations as promotional opportunities with the agreement that positions would be identified for elimination after the promotional recruitment

process was complete. Periodically, staff will be coming to council to make these adjustments to the allocation schedule to reflect these eliminated allocations. Staff is requesting the following allocations be deleted from the allocation schedule:

Job Title	Division
Administrative Analyst	08400
Office Assistant	02000
Building Maintenance Supervisor	03331
E-Government Analyst	03120
IT Planning & Policy Supervisor	03120
Administrative Analyst	05514
Acting City Manager	01500

Staff is also recommending that the following classifications be deleted from the appropriate salary schedules as they will no longer be utilized:

Job Title	Bargaining Group
E-Government Analyst I/II	Local 39
IT Planning & Policy Analyst I/II	Local 39
Building Maintenance Supervisor	Management
IT Planning & Policy Supervisor	Management

Additionally, staff is requesting the following allocation changes and salary schedule correction:

Payroll Clerk:

The Payroll division of the Finance department is requesting to increase the Payroll Clerk from a 0.5 FTE (full time equivalent) to a 0.6 FTE. The Payroll Clerk has been working more that the allotted 0.5 FTE for the last 9 months to help ensure that employees get paid on time and correctly. The Payroll Clerk is primarily responsible for the large number of temporary employees being paid in the City. The addition of the new California Sick Leave law has increased the amount of work needed to accurately accrue and pay sick leave to temporary employees. The salary & benefits impact can be absorbed in the current Finance department budget.

Administrative Technician:

The Engineering division of the Electric department is requesting that a vacant Office Assistant I/II allocation be reclassified to an Administrative Technician allocation. The recently completed Roseville Electric five year distribution system plan includes a number of large projects requiring substantial engineering, project management, purchasing and resource coordination. Overall, these projects will increase the Engineering and New Services team work load by approximately 20%. With this growth, it will be necessary for the division to have a higher level of administrative support than in the past. The salary & benefits impact can be absorbed in the current Electric department budget.

City Council Appointed Positions Salary Schedule:

At the January 6, 2016 council meeting, a two percent general wage increase was approved for those positions on the CCAP salary schedule. The salary schedule brought forth at that meeting did not reflect the increase and staff is requesting the approval of the CCAP salary schedule (Appendix B) to reflect the already approved salary changes. The fiscal impact is reflected in the current budget. This action is administrative in nature.

FISCAL IMPACT

The proposed changes will result in an annual cost of \$25,673 and a fiscal impact of \$9,874.

From	To	Current Salary & Benefits	Proposed Salary & Benefits	Total Fiscal Impact
Payroll Clerk (.5 FTE)	Payroll Clerk (.6 FTE)	\$44,957	\$53,948	\$3,458
Office Assistant II	Administrative Technician	\$73,757	\$90,439	\$6,416
				\$9,874

ECONOMIC DEVELOPMENT / JOBS CREATED

No new jobs will be created by this action.

ENVIRONMENTAL REVIEW

Salary schedule and staffing changes are not considered a “project” as defined by the California Environmental Quality Act (CEQA) (CEQA Guidelines 15378). Consequently no CEQA action is required.

Respectfully Submitted,

Linda Hampton, Senior Human Resources Analyst

Gayle Satchwell, Human Resources Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Ordinance No. 5642

03-05-2016 Local 39 A Salary Schedule

03-05-2016 Local 39 B Salary Schedule

Ordinance No. 5643

03-05-2016 MGMT A Salary Schedule

03-05-2016 MGMT B Salary Schedule

Ordinance No. 5644

01-09-2016 Amended CCAP Salary Schedule

03-05-2016 Allocation Schedule

ORDINANCE NO. 5642

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING
ORDINANCE NO. 5626, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED
BY THE INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY
ENGINEERS, LOCAL 39, AS AMENDED BY APPENDIX "B" TO BE EFFECTIVE
MARCH 5, 2016, AS AN URGENCY MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Title and Purpose.

Ordinance No. 5626, the Salary Ordinance for employees represented by Local 39, is hereby amended as shown on Appendix "B" attached hereto, to reflect the following changes:

DELETION OF CLASSIFICATION:

<u>Classification No.</u>	<u>Position Title</u>	<u>Salary Range</u>
1707/1709	E-Government Analyst I/II	3504/3855
B436/B437	E-Government Analyst I/II	3504/3855
3613/3614	IT Planning & Policy Analyst I/II	3850/4235
B468/B467	IT Planning & Policy Analyst I/II	3850/4235

SECTION 2. Salary Plan Effective Date.

This Ordinance shall be effective March 5, 2016 as an urgency measure.

SECTION 3. Urgency Ordinance.

This ordinance is hereby declared to be an urgency measure, immediately necessary for the public peace, health and safety and shall take effect March 5, 2016. A statement of urgency is as follows:

It is necessary to amend the Salary Ordinance to comply with recently approved changes for the orderly and necessary continuance of operations of the City.

SECTION 4. Posting.

The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three conspicuous locations in the City and she shall immediately after such posting enter in the Ordinance Book under the record of the ordinance a certificate under her hand stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

ATTEST:

MAYOR

City Clerk

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
0035	ACCOUNTANT I	STEP A	25.4192	38.1288	2,033.53	4,405.99	52,871.93
		STEP B	26.6900	40.0350	2,135.20	4,626.26	55,515.20
		STEP C	28.0246	42.0369	2,241.96	4,857.59	58,291.16
		STEP D	29.4259	44.1388	2,354.07	5,100.48	61,205.87
		STEP E	30.8971	46.3456	2,471.76	5,355.49	64,265.96
		STEP F	32.4420	48.6630	2,595.36	5,623.28	67,479.36
		STEP G	34.0643	51.0964	2,725.14	5,904.47	70,853.74
		STEP H	35.7673	53.6509	2,861.38	6,199.66	74,395.98
0040	ACCOUNTANT II	STEP A	27.9730	41.9595	2,237.84	4,848.65	58,183.84
		STEP B	29.3715	44.0572	2,349.72	5,091.06	61,092.72
		STEP C	30.8399	46.2598	2,467.19	5,345.58	64,146.99
		STEP D	32.3820	48.5730	2,590.56	5,612.88	67,354.56
		STEP E	34.0010	51.0015	2,720.08	5,893.50	70,722.08
		STEP F	35.7013	53.5519	2,856.10	6,188.22	74,258.70
		STEP G	37.4865	56.2297	2,998.92	6,497.66	77,971.92
		STEP H	39.3605	59.0407	3,148.84	6,822.48	81,869.84
0084	ADMIN TECHNICIAN	STEP A	20.7915	31.1872	1,663.32	3,603.86	43,246.32
		STEP B	21.8313	32.7469	1,746.50	3,784.09	45,409.10
		STEP C	22.9228	34.3842	1,833.82	3,973.28	47,679.42
		STEP D	24.0689	36.1033	1,925.51	4,171.94	50,063.31
		STEP E	25.2723	37.9084	2,021.78	4,380.53	52,566.38
		STEP F	26.5360	39.8040	2,122.88	4,599.57	55,194.88
		STEP G	27.8627	41.7940	2,229.01	4,829.53	57,954.41
		STEP H	29.2559	43.8838	2,340.47	5,071.02	60,852.27
0820	ASSOC ENGINEER	STEP A	33.9437	50.9155	2,715.49	5,883.57	70,602.89
		STEP B	35.6407	53.4610	2,851.25	6,177.72	74,132.65
		STEP C	37.4230	56.1345	2,993.84	6,486.65	77,839.84
		STEP D	39.2942	58.9413	3,143.53	6,810.99	81,731.93
		STEP E	41.2590	61.8885	3,300.72	7,151.56	85,818.72
		STEP F	43.3219	64.9828	3,465.75	7,509.12	90,109.55
		STEP G	45.4878	68.2317	3,639.02	7,884.55	94,614.62
		STEP H	47.7623	71.6434	3,820.98	8,278.79	99,345.58

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SALARY SCHEDULE A

Appendix: B

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
0900	ASSOC PLANNER	STEP A	30.3640	45.5460	2,429.12	5,263.09	63,157.12
		STEP B	31.8820	47.8230	2,550.56	5,526.21	66,314.56
		STEP C	33.4763	50.2144	2,678.10	5,802.55	69,630.70
		STEP D	35.1501	52.7251	2,812.00	6,092.68	73,112.20
		STEP E	36.9075	55.3612	2,952.60	6,397.30	76,767.60
		STEP F	38.7529	58.1293	3,100.23	6,717.16	80,606.03
		STEP G	40.6905	61.0357	3,255.24	7,053.02	84,636.24
		STEP H	42.7249	64.0873	3,417.99	7,405.64	88,867.79
0376	ASST CHILD CARE SITE COORD	STEP A	16.4385	24.6577	1,315.08	2,849.34	34,192.08
		STEP B	17.2604	25.8906	1,380.83	2,991.80	35,901.63
		STEP C	18.1234	27.1851	1,449.87	3,141.38	37,696.67
		STEP D	19.0296	28.5444	1,522.36	3,298.46	39,581.56
		STEP E	19.9813	29.9719	1,598.50	3,463.42	41,561.10
		STEP F	20.9802	31.4703	1,678.41	3,636.56	43,638.81
		STEP G	22.0290	33.0435	1,762.32	3,818.36	45,820.32
		STEP H	23.1306	34.6959	1,850.44	4,009.30	48,111.64
0338	ASST ENGINEER	STEP A	30.7531	46.1296	2,460.24	5,330.53	63,966.44
		STEP B	32.2906	48.4359	2,583.24	5,597.03	67,164.44
		STEP C	33.9051	50.8576	2,712.40	5,876.88	70,522.60
		STEP D	35.6005	53.4007	2,848.04	6,170.75	74,049.04
		STEP E	37.3805	56.0707	2,990.44	6,479.28	77,751.44
		STEP F	39.2494	58.8741	3,139.95	6,803.22	81,638.75
		STEP G	41.2119	61.8178	3,296.95	7,143.39	85,720.75
		STEP H	43.2725	64.9087	3,461.80	7,500.56	90,006.80
0650	ASST PLANNER	STEP A	26.4024	39.6036	2,112.19	4,576.41	54,916.99
		STEP B	27.7226	41.5839	2,217.80	4,805.25	57,663.00
		STEP C	29.1087	43.6630	2,328.69	5,045.50	60,546.09
		STEP D	30.5641	45.8461	2,445.12	5,297.77	63,573.32
		STEP E	32.0924	48.1386	2,567.39	5,562.68	66,752.19
		STEP F	33.6969	50.5453	2,695.75	5,840.79	70,089.55
		STEP G	35.3818	53.0727	2,830.54	6,132.84	73,594.14
		STEP H	37.1508	55.7262	2,972.06	6,439.47	77,273.66

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
1018	BLDG INSPECTOR I	STEP A	24.0170	36.0255	1,921.36	4,162.94	49,955.36
		STEP B	25.2177	37.8265	2,017.41	4,371.06	52,452.81
		STEP C	26.4787	39.7180	2,118.29	4,589.64	55,075.69
		STEP D	27.8023	41.7034	2,224.18	4,819.06	57,828.78
		STEP E	29.1926	43.7889	2,335.40	5,060.05	60,720.60
		STEP F	30.6523	45.9784	2,452.18	5,313.06	63,756.78
		STEP G	32.1851	48.2776	2,574.80	5,578.75	66,945.00
		STEP H	33.7942	50.6913	2,703.53	5,857.66	70,291.93
1019	BLDG INSPECTOR II	STEP A	26.4186	39.6279	2,113.48	4,579.22	54,950.68
		STEP B	27.7395	41.6092	2,219.16	4,808.18	57,698.16
		STEP C	29.1264	43.6896	2,330.11	5,048.57	60,582.91
		STEP D	30.5828	45.8742	2,446.62	5,301.01	63,612.22
		STEP E	32.1120	48.1680	2,568.96	5,566.08	66,792.96
		STEP F	33.7176	50.5764	2,697.40	5,844.38	70,132.60
		STEP G	35.4034	53.1051	2,832.27	6,136.58	73,639.07
		STEP H	37.1736	55.7604	2,973.88	6,443.42	77,321.08
1030	BLDG MAINT WORKER I	STEP A	19.8795	29.8192	1,590.36	3,445.78	41,349.36
		STEP B	20.8734	31.3101	1,669.87	3,618.05	43,416.67
		STEP C	21.9171	32.8756	1,753.36	3,798.96	45,587.56
		STEP D	23.0129	34.5193	1,841.03	3,988.90	47,866.83
		STEP E	24.1637	36.2455	1,933.09	4,188.37	50,260.49
		STEP F	25.3718	38.0577	2,029.74	4,397.77	52,773.34
		STEP G	26.6404	39.9606	2,131.23	4,617.66	55,412.03
		STEP H	27.9724	41.9586	2,237.79	4,848.54	58,182.59
1032	BLDG MAINT WORKER II	STEP A	21.8667	32.8000	1,749.33	3,790.22	45,482.73
		STEP B	22.9599	34.4398	1,836.79	3,979.71	47,756.59
		STEP C	24.1077	36.1615	1,928.61	4,178.66	50,144.01
		STEP D	25.3133	37.9699	2,025.06	4,387.63	52,651.66
		STEP E	26.5788	39.8682	2,126.30	4,606.99	55,283.90
		STEP F	27.9078	41.8617	2,232.62	4,837.35	58,048.22
		STEP G	29.3034	43.9551	2,344.27	5,079.25	60,951.07
		STEP H	30.7685	46.1527	2,461.48	5,333.20	63,998.48

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
1045	BLDG PLANS EXAMINER I						
		STEP A	24.2958	36.4437	1,943.66	4,211.27	50,535.26
		STEP B	25.5105	38.2657	2,040.84	4,421.82	53,061.84
		STEP C	26.7861	40.1791	2,142.88	4,642.92	55,715.08
		STEP D	28.1251	42.1876	2,250.00	4,875.01	58,500.20
		STEP E	29.5316	44.2974	2,362.52	5,118.81	61,425.72
		STEP F	31.0082	46.5123	2,480.65	5,374.75	64,497.05
		STEP G	32.5588	48.8382	2,604.70	5,643.52	67,722.30
		STEP H	34.1865	51.2797	2,734.92	5,925.66	71,107.92
1047	BLDG PLANS EXAMINER II						
		STEP A	26.7254	40.0881	2,138.03	4,632.40	55,588.83
		STEP B	28.0616	42.0924	2,244.92	4,864.01	58,368.12
		STEP C	29.4646	44.1969	2,357.16	5,107.19	61,286.36
		STEP D	30.9379	46.4068	2,475.03	5,362.56	64,350.83
		STEP E	32.4849	48.7273	2,598.79	5,630.71	67,568.59
		STEP F	34.1091	51.1636	2,728.72	5,912.24	70,946.92
		STEP G	35.8144	53.7216	2,865.15	6,207.82	74,493.95
		STEP H	37.6052	56.4078	3,008.41	6,518.23	78,218.81
1361	BUSINESS SYSTEMS ANALYST I						
		STEP A	27.3634	41.0451	2,189.07	4,742.98	56,915.87
		STEP B	28.7315	43.0972	2,298.52	4,980.12	59,761.52
		STEP C	30.1680	45.2520	2,413.44	5,229.12	62,749.44
		STEP D	31.6765	47.5147	2,534.12	5,490.59	65,887.12
		STEP E	33.2604	49.8906	2,660.83	5,765.13	69,181.63
		STEP F	34.9234	52.3851	2,793.87	6,053.38	72,640.67
		STEP G	36.6695	55.0042	2,933.56	6,356.04	76,272.56
		STEP H	38.5030	57.7545	3,080.24	6,673.85	80,086.24
1362	BUSINESS SYSTEMS ANALYST II						
		STEP A	30.0999	45.1498	2,407.99	5,217.31	62,607.79
		STEP B	31.6048	47.4072	2,528.38	5,478.16	65,737.98
		STEP C	33.1850	49.7775	2,654.80	5,752.06	69,024.80
		STEP D	34.8442	52.2663	2,787.53	6,039.66	72,475.93
		STEP E	36.5865	54.8797	2,926.92	6,341.66	76,099.92
		STEP F	38.4160	57.6240	3,073.28	6,658.77	79,905.28
		STEP G	40.3366	60.5049	3,226.92	6,991.67	83,900.12
		STEP H	42.3533	63.5299	3,388.26	7,341.23	88,094.86

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
1055	BUYER I	STEP A	21.1152	31.6728	1,689.21	3,659.96	43,919.61
		STEP B	22.1710	33.2565	1,773.68	3,842.97	46,115.68
		STEP C	23.2797	34.9195	1,862.37	4,035.14	48,421.77
		STEP D	24.4436	36.6654	1,955.48	4,236.89	50,842.68
		STEP E	25.6659	38.4988	2,053.27	4,448.75	53,385.07
		STEP F	26.9491	40.4236	2,155.92	4,671.17	56,054.12
		STEP G	28.2965	42.4447	2,263.72	4,904.72	58,856.72
		STEP H	29.7114	44.5671	2,376.91	5,149.97	61,799.71
1060	BUYER II	STEP A	23.2267	34.8400	1,858.13	4,025.96	48,311.53
		STEP B	24.3880	36.5820	1,951.04	4,227.25	50,727.04
		STEP C	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP D	26.8879	40.3318	2,151.03	4,660.56	55,926.83
		STEP E	28.2322	42.3483	2,258.57	4,893.58	58,722.97
		STEP F	29.6438	44.4657	2,371.50	5,138.25	61,659.10
		STEP G	31.1261	46.6891	2,490.08	5,395.19	64,742.28
		STEP H	32.6824	49.0236	2,614.59	5,664.94	67,979.39
1225	CHILD CARE SITE COORDINATOR	STEP A	19.6833	29.5249	1,574.66	3,411.77	40,941.26
		STEP B	20.6675	31.0012	1,653.40	3,582.36	42,988.40
		STEP C	21.7009	32.5513	1,736.07	3,761.48	45,137.87
		STEP D	22.7859	34.1788	1,822.87	3,949.55	47,394.67
		STEP E	23.9253	35.8879	1,914.02	4,147.05	49,764.62
		STEP F	25.1215	37.6822	2,009.72	4,354.39	52,252.72
		STEP G	26.3775	39.5662	2,110.20	4,572.10	54,865.20
		STEP H	27.6963	41.5444	2,215.70	4,800.69	57,608.30
1226	CITY CLERK TECHNICIAN I	STEP A	20.2827	30.4240	1,622.61	3,515.66	42,188.01
		STEP B	21.2969	31.9453	1,703.75	3,691.46	44,297.55
		STEP C	22.3617	33.5425	1,788.93	3,876.02	46,512.33
		STEP D	23.4798	35.2197	1,878.38	4,069.83	48,837.98
		STEP E	24.6537	36.9805	1,972.29	4,273.30	51,279.69
		STEP F	25.8864	38.8296	2,070.91	4,486.97	53,843.71
		STEP G	27.1808	40.7712	2,174.46	4,711.33	56,536.06
		STEP H	28.5397	42.8095	2,283.17	4,946.88	59,362.57

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1227	CITY CLERK TECHNICIAN II						
		STEP A	22.3118	33.4677	1,784.94	3,867.37	46,408.54
		STEP B	23.4272	35.1408	1,874.17	4,060.71	48,728.57
		STEP C	24.5986	36.8979	1,967.88	4,263.75	51,165.08
		STEP D	25.8287	38.7430	2,066.29	4,476.97	53,723.69
		STEP E	27.1202	40.6803	2,169.61	4,700.83	56,410.01
		STEP F	28.4762	42.7143	2,278.09	4,935.87	59,230.49
		STEP G	29.8998	44.8497	2,391.98	5,182.63	62,191.58
		STEP H	31.3948	47.0922	2,511.58	5,441.76	65,301.18
1366	CODE ENFORCEMENT INSPECTOR						
		STEP A	23.8335	35.7502	1,906.68	4,131.14	49,573.68
		STEP B	25.0251	37.5376	2,002.00	4,337.68	52,052.20
		STEP C	26.2764	39.4146	2,102.11	4,554.57	54,654.91
		STEP D	27.5899	41.3848	2,207.19	4,782.24	57,386.99
		STEP E	28.9696	43.4544	2,317.56	5,021.39	60,256.76
		STEP F	30.4181	45.6271	2,433.44	5,272.47	63,269.64
		STEP G	31.9392	47.9088	2,555.13	5,536.12	66,433.53
		STEP H	33.5360	50.3040	2,682.88	5,812.90	69,754.88
1401	COMMUNITY RELATIONS ANALYST						
		STEP A	25.5570	38.3355	2,044.56	4,429.88	53,158.56
		STEP B	26.8349	40.2523	2,146.79	4,651.38	55,816.59
		STEP C	28.1767	42.2650	2,254.13	4,883.96	58,607.53
		STEP D	29.5856	44.3784	2,366.84	5,128.17	61,538.04
		STEP E	31.0649	46.5973	2,485.19	5,384.58	64,614.99
		STEP F	32.6182	48.9273	2,609.45	5,653.82	67,845.85
		STEP G	34.2490	51.3735	2,739.92	5,936.49	71,237.92
		STEP H	35.9615	53.9422	2,876.92	6,233.32	74,799.92
1248	CONSTRUCTION INSPECTION SUPV						
		STEP A	31.2610	46.8915	2,500.88	5,418.57	65,022.88
		STEP B	32.8239	49.2358	2,625.91	5,689.47	68,273.71
		STEP C	34.4652	51.6978	2,757.21	5,973.96	71,687.61
		STEP D	36.1882	54.2823	2,895.05	6,272.62	75,271.45
		STEP E	37.9979	56.9968	3,039.83	6,586.30	79,035.63
		STEP F	39.8980	59.8470	3,191.84	6,915.65	82,987.84
		STEP G	41.8925	62.8387	3,351.40	7,261.36	87,136.40
		STEP H	43.9874	65.9811	3,518.99	7,624.48	91,493.79

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1432	CONSTRUCTION INSPECTOR I						
		STEP A	22.4649	33.6973	1,797.19	3,893.91	46,726.99
		STEP B	23.5882	35.3823	1,887.05	4,088.62	49,063.45
		STEP C	24.7674	37.1511	1,981.39	4,293.01	51,516.19
		STEP D	26.0058	39.0087	2,080.46	4,507.67	54,092.06
		STEP E	27.3064	40.9596	2,184.51	4,733.10	56,797.31
		STEP F	28.6715	43.0072	2,293.72	4,969.72	59,636.72
		STEP G	30.1050	45.1575	2,408.40	5,218.20	62,618.40
		STEP H	31.6105	47.4157	2,528.84	5,479.15	65,749.84
1434	CONSTRUCTION INSPECTOR II						
		STEP A	24.7122	37.0683	1,976.97	4,283.44	51,401.37
		STEP B	25.9480	38.9220	2,075.84	4,497.65	53,971.84
		STEP C	27.2453	40.8679	2,179.62	4,722.51	56,670.22
		STEP D	28.6076	42.9114	2,288.60	4,958.65	59,503.80
		STEP E	30.0379	45.0568	2,403.03	5,206.56	62,478.83
		STEP F	31.5396	47.3094	2,523.16	5,466.86	65,602.36
		STEP G	33.1168	49.6752	2,649.34	5,740.24	68,882.94
		STEP H	34.7726	52.1589	2,781.80	6,027.25	72,327.00
1450	COURIER						
		STEP A	15.4152	23.1228	1,233.21	2,671.96	32,063.61
		STEP B	16.1861	24.2791	1,294.88	2,805.59	33,667.08
		STEP C	16.9952	25.4928	1,359.61	2,945.83	35,350.01
		STEP D	17.8450	26.7675	1,427.60	3,093.13	37,117.60
		STEP E	18.7375	28.1062	1,499.00	3,247.83	38,974.00
		STEP F	19.6741	29.5111	1,573.92	3,410.17	40,922.12
		STEP G	20.6580	30.9870	1,652.64	3,580.72	42,968.64
		STEP H	21.6907	32.5360	1,735.25	3,759.72	45,116.65
1485	CUSTODIAN						
		STEP A	17.0782	25.6173	1,366.25	2,960.22	35,522.65
		STEP B	17.9321	26.8981	1,434.56	3,108.23	37,298.76
		STEP C	18.8287	28.2430	1,506.29	3,263.64	39,163.69
		STEP D	19.7700	29.6550	1,581.60	3,426.80	41,121.60
		STEP E	20.7585	31.1377	1,660.68	3,598.14	43,177.68
		STEP F	21.7964	32.6946	1,743.71	3,778.04	45,336.51
		STEP G	22.8865	34.3297	1,830.92	3,966.99	47,603.92
		STEP H	24.0307	36.0460	1,922.45	4,165.32	49,983.85

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
1546	DATA MANAGEMENT SPECIALIST I						
		STEP A	27.9531	41.9296	2,236.24	4,845.20	58,142.44
		STEP B	28.9835	43.4752	2,318.68	5,023.80	60,285.68
		STEP C	30.4327	45.6490	2,434.61	5,275.00	63,300.01
		STEP D	31.9545	47.9317	2,556.36	5,538.78	66,465.36
		STEP E	33.5521	50.3281	2,684.16	5,815.69	69,788.36
		STEP F	35.2298	52.8447	2,818.38	6,106.49	73,277.98
		STEP G	36.9911	55.4866	2,959.28	6,411.79	76,941.48
		STEP H	38.8407	58.2610	3,107.25	6,732.38	80,788.65
1548	DATA MANAGEMENT SPECIALIST II						
		STEP A	30.3640	45.5460	2,429.12	5,263.09	63,157.12
		STEP B	31.8820	47.8230	2,550.56	5,526.21	66,314.56
		STEP C	33.4763	50.2144	2,678.10	5,802.55	69,630.70
		STEP D	35.1501	52.7251	2,812.00	6,092.68	73,112.20
		STEP E	36.9075	55.3612	2,952.60	6,397.30	76,767.60
		STEP F	38.7529	58.1293	3,100.23	6,717.16	80,606.03
		STEP G	40.6905	61.0357	3,255.24	7,053.02	84,636.24
		STEP H	42.7249	64.0873	3,417.99	7,405.64	88,867.79
1551	DATABASE ANALYST I						
		STEP A	30.0525	45.0787	2,404.20	5,209.10	62,509.20
		STEP B	31.5550	47.3325	2,524.40	5,469.53	65,634.40
		STEP C	33.1329	49.6993	2,650.63	5,743.03	68,916.43
		STEP D	34.7894	52.1841	2,783.15	6,030.16	72,361.95
		STEP E	36.5290	54.7935	2,922.32	6,331.69	75,980.32
		STEP F	38.3554	57.5331	3,068.43	6,648.26	79,779.23
		STEP G	40.2732	60.4098	3,221.85	6,980.68	83,768.25
		STEP H	42.2869	63.4303	3,382.95	7,329.72	87,956.75
1552	DATABASE ANALYST II						
		STEP A	33.0578	49.5867	2,644.62	5,730.01	68,760.22
		STEP B	34.7107	52.0660	2,776.85	6,016.52	72,198.25
		STEP C	36.4464	54.6696	2,915.71	6,317.37	75,808.51
		STEP D	38.2686	57.4029	3,061.48	6,633.22	79,598.68
		STEP E	40.1821	60.2731	3,214.56	6,964.89	83,578.76
		STEP F	42.1912	63.2868	3,375.29	7,313.14	87,757.69
		STEP G	44.3007	66.4510	3,544.05	7,678.78	92,145.45
		STEP H	46.5155	69.7732	3,721.24	8,062.68	96,752.24

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
1660	DEPUTY CITY CLERK I	STEP A	15.6463	23.4694	1,251.70	2,712.02	32,544.30
		STEP B	16.4288	24.6432	1,314.30	2,847.65	34,171.90
		STEP C	17.2501	25.8751	1,380.00	2,990.01	35,880.20
		STEP D	18.1126	27.1689	1,449.00	3,139.51	37,674.20
		STEP E	19.0183	28.5274	1,521.46	3,296.50	39,558.06
		STEP F	19.9694	29.9541	1,597.55	3,461.36	41,536.35
		STEP G	20.9677	31.4515	1,677.41	3,634.40	43,612.81
		STEP H	22.0162	33.0243	1,761.29	3,816.14	45,793.69
1665	DEPUTY CITY CLERK II	STEP A	17.2109	25.8163	1,376.87	2,983.22	35,798.67
		STEP B	18.0715	27.1072	1,445.72	3,132.39	37,588.72
		STEP C	18.9750	28.4625	1,518.00	3,289.00	39,468.00
		STEP D	19.9239	29.8858	1,593.91	3,453.47	41,441.71
		STEP E	20.9200	31.3800	1,673.60	3,626.13	43,513.60
		STEP F	21.9660	32.9490	1,757.28	3,807.44	45,689.28
		STEP G	23.0643	34.5964	1,845.14	3,997.81	47,973.74
		STEP H	24.2176	36.3264	1,937.40	4,197.71	50,372.60
1670	DEVELOPMENT TECHNICIAN I	STEP A	21.5373	32.3059	1,722.98	3,733.13	44,797.58
		STEP B	22.6142	33.9213	1,809.13	3,919.79	47,037.53
		STEP C	23.7448	35.6172	1,899.58	4,115.76	49,389.18
		STEP D	24.9322	37.3983	1,994.57	4,321.58	51,858.97
		STEP E	26.1788	39.2682	2,094.30	4,537.65	54,451.90
		STEP F	27.4878	41.2317	2,199.02	4,764.55	57,174.62
		STEP G	28.8621	43.2931	2,308.96	5,002.76	60,033.16
		STEP H	30.3052	45.4578	2,424.41	5,252.90	63,034.81
1672	DEVELOPMENT TECHNICIAN II	STEP A	23.6910	35.5365	1,895.28	4,106.44	49,277.28
		STEP B	24.8757	37.3135	1,990.05	4,311.78	51,741.45
		STEP C	26.1193	39.1789	2,089.54	4,527.34	54,328.14
		STEP D	27.4254	41.1381	2,194.03	4,753.73	57,044.83
		STEP E	28.7966	43.1949	2,303.72	4,991.41	59,896.92
		STEP F	30.2366	45.3549	2,418.92	5,241.01	62,892.12
		STEP G	31.7483	47.6224	2,539.86	5,503.03	66,036.46
		STEP H	33.3357	50.0035	2,666.85	5,778.18	69,338.25

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
2466	ENERGY PROGRAM TECHNICIAN						
		STEP A	20.7915	31.1872	1,663.32	3,603.86	43,246.32
		STEP B	21.8313	32.7469	1,746.50	3,784.09	45,409.10
		STEP C	22.9228	34.3842	1,833.82	3,973.28	47,679.42
		STEP D	24.0689	36.1033	1,925.51	4,171.94	50,063.31
		STEP E	25.2723	37.9084	2,021.78	4,380.53	52,566.38
		STEP F	26.5360	39.8040	2,122.88	4,599.57	55,194.88
		STEP G	27.8627	41.7940	2,229.01	4,829.53	57,954.41
		STEP H	29.2559	43.8838	2,340.47	5,071.02	60,852.27
1300	ENGINEERING TECHNICIAN I						
		STEP A	20.1226	30.1839	1,609.80	3,487.91	41,855.00
		STEP B	21.1287	31.6930	1,690.29	3,662.30	43,947.69
		STEP C	22.1853	33.2779	1,774.82	3,845.45	46,145.42
		STEP D	23.2945	34.9417	1,863.56	4,037.71	48,452.56
		STEP E	24.4592	36.6888	1,956.73	4,239.59	50,875.13
		STEP F	25.6820	38.5230	2,054.56	4,451.54	53,418.56
		STEP G	26.9663	40.4494	2,157.30	4,674.15	56,089.90
		STEP H	28.3146	42.4719	2,265.16	4,907.86	58,894.36
1350	ENGINEERING TECHNICIAN II						
		STEP A	22.1349	33.2023	1,770.79	3,836.71	46,040.59
		STEP B	23.2417	34.8625	1,859.33	4,028.56	48,342.73
		STEP C	24.4038	36.6057	1,952.30	4,229.99	50,759.90
		STEP D	25.6241	38.4361	2,049.92	4,441.51	53,298.12
		STEP E	26.9052	40.3578	2,152.41	4,663.56	55,962.81
		STEP F	28.2504	42.3756	2,260.03	4,896.73	58,760.83
		STEP G	29.6629	44.4943	2,373.03	5,141.56	61,698.83
		STEP H	31.1461	46.7191	2,491.68	5,398.65	64,783.88
2542	ENVIRONMENTAL COMPL SPEC I						
		STEP A	20.5911	30.8866	1,647.28	3,569.12	42,829.48
		STEP B	21.6206	32.4309	1,729.64	3,747.57	44,970.84
		STEP C	22.7016	34.0524	1,816.12	3,934.94	47,219.32
		STEP D	23.8368	35.7552	1,906.94	4,131.71	49,580.54
		STEP E	25.0286	37.5429	2,002.28	4,338.29	52,059.48
		STEP F	26.2800	39.4200	2,102.40	4,555.20	54,662.40
		STEP G	27.5941	41.3911	2,207.52	4,782.97	57,395.72
		STEP H	28.9737	43.4605	2,317.89	5,022.10	60,265.29

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2544	ENVIRONMENTAL COMPL SPEC II						
		STEP A	22.6494	33.9741	1,811.95	3,925.89	47,110.75
		STEP B	23.7819	35.6728	1,902.55	4,122.19	49,466.35
		STEP C	24.9710	37.4565	1,997.68	4,328.30	51,939.68
		STEP D	26.2196	39.3294	2,097.56	4,544.73	54,536.76
		STEP E	27.5306	41.2959	2,202.44	4,771.97	57,263.64
		STEP F	28.9071	43.3606	2,312.56	5,010.56	60,126.76
		STEP G	30.3524	45.5286	2,428.19	5,261.08	63,132.99
		STEP H	31.8702	47.8053	2,549.61	5,524.16	66,290.01
2560	EQUIPMENT SERVICEWORKER						
		STEP A	18.7292	28.0938	1,498.33	3,246.39	38,956.73
		STEP B	19.6657	29.4985	1,573.25	3,408.72	40,904.65
		STEP C	20.6491	30.9736	1,651.92	3,579.17	42,950.12
		STEP D	21.6816	32.5224	1,734.52	3,758.14	45,097.72
		STEP E	22.7656	34.1484	1,821.24	3,946.03	47,352.44
		STEP F	23.9039	35.8558	1,912.31	4,143.34	49,720.11
		STEP G	25.0990	37.6485	2,007.92	4,350.49	52,205.92
		STEP H	26.3541	39.5311	2,108.32	4,568.04	54,816.52
3334	FINANCE CLERK I						
		STEP A	16.1857	24.2785	1,294.85	2,805.52	33,666.25
		STEP B	16.9949	25.4923	1,359.59	2,945.78	35,349.39
		STEP C	17.8447	26.7670	1,427.57	3,093.08	37,116.97
		STEP D	18.7371	28.1056	1,498.96	3,247.76	38,973.16
		STEP E	19.6738	29.5107	1,573.90	3,410.12	40,921.50
		STEP F	20.6576	30.9864	1,652.60	3,580.65	42,967.80
		STEP G	21.6904	32.5356	1,735.23	3,759.66	45,116.03
		STEP H	22.7750	34.1625	1,822.00	3,947.66	47,372.00
3335	FINANCE CLERK II						
		STEP A	17.8043	26.7064	1,424.34	3,086.07	37,032.94
		STEP B	18.6947	28.0420	1,495.57	3,240.41	38,884.97
		STEP C	19.6293	29.4439	1,570.34	3,402.41	40,828.94
		STEP D	20.6106	30.9159	1,648.84	3,572.50	42,870.04
		STEP E	21.6413	32.4619	1,731.30	3,751.15	45,013.90
		STEP F	22.7233	34.0849	1,817.86	3,938.70	47,264.46
		STEP G	23.8595	35.7892	1,908.76	4,135.64	49,627.76
		STEP H	25.0524	37.5786	2,004.19	4,342.41	52,108.99

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3325	FINANCE TECHNICIAN I	STEP A	18.5859	27.8788	1,486.87	3,221.55	38,658.67
		STEP B	19.5152	29.2728	1,561.21	3,382.63	40,591.61
		STEP C	20.4910	30.7365	1,639.28	3,551.77	42,621.28
		STEP D	21.5154	32.2731	1,721.23	3,729.33	44,752.03
		STEP E	22.5913	33.8869	1,807.30	3,915.82	46,989.90
		STEP F	23.7208	35.5812	1,897.66	4,111.60	49,339.26
		STEP G	24.9069	37.3603	1,992.55	4,317.19	51,806.35
		STEP H	26.1522	39.2283	2,092.17	4,533.04	54,396.57
3326	FINANCE TECHNICIAN II	STEP A	20.4446	30.6669	1,635.56	3,543.73	42,524.76
		STEP B	21.4667	32.2000	1,717.33	3,720.89	44,650.73
		STEP C	22.5404	33.8106	1,803.23	3,907.00	46,884.03
		STEP D	23.6671	35.5006	1,893.36	4,102.29	49,227.56
		STEP E	24.8504	37.2756	1,988.03	4,307.40	51,688.83
		STEP F	26.0931	39.1396	2,087.44	4,522.80	54,273.64
		STEP G	27.3977	41.0965	2,191.81	4,748.93	56,987.21
		STEP H	28.7674	43.1511	2,301.39	4,986.34	59,836.19
3316	FINANCIAL ANALYST I	STEP A	29.7162	44.5743	2,377.29	5,150.80	61,809.69
		STEP B	31.2020	46.8030	2,496.16	5,408.34	64,900.16
		STEP C	32.7622	49.1433	2,620.97	5,678.78	68,145.37
		STEP D	34.4000	51.6000	2,752.00	5,962.66	71,552.00
		STEP E	36.1202	54.1803	2,889.61	6,260.83	75,130.01
		STEP F	37.9261	56.8891	3,034.08	6,573.85	78,886.28
		STEP G	39.8224	59.7336	3,185.79	6,902.54	82,830.59
		STEP H	41.8136	62.7204	3,345.08	7,247.69	86,972.28
3318	FINANCIAL ANALYST II	STEP A	33.5734	50.3601	2,685.87	5,819.38	69,832.67
		STEP B	35.2520	52.8780	2,820.16	6,110.34	73,324.16
		STEP C	37.0145	55.5217	2,961.16	6,415.84	76,990.16
		STEP D	38.8654	58.2981	3,109.23	6,736.66	80,840.03
		STEP E	40.8085	61.2127	3,264.68	7,073.47	84,881.68
		STEP F	42.8490	64.2735	3,427.92	7,427.16	89,125.92
		STEP G	44.9914	67.4871	3,599.31	7,798.50	93,582.11
		STEP H	47.2411	70.8616	3,779.28	8,188.45	98,261.48

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
3387	FIRE TECHNICIAN I	STEP A	18.3946	27.5919	1,471.56	3,188.39	38,260.76
		STEP B	19.3141	28.9711	1,545.12	3,347.77	40,173.32
		STEP C	20.2799	30.4198	1,622.39	3,515.18	42,182.19
		STEP D	21.2940	31.9410	1,703.52	3,690.96	44,291.52
		STEP E	22.3587	33.5380	1,788.69	3,875.50	46,506.09
		STEP F	23.4765	35.2147	1,878.12	4,069.26	48,831.12
		STEP G	24.6503	36.9754	1,972.02	4,272.71	51,272.62
		STEP H	25.8828	38.8242	2,070.62	4,486.35	53,836.22
3389	FIRE TECHNICIAN II	STEP A	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP B	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP C	23.2269	34.8403	1,858.15	4,026.00	48,311.95
		STEP D	24.3885	36.5827	1,951.08	4,227.34	50,728.08
		STEP E	25.6077	38.4115	2,048.61	4,438.66	53,264.01
		STEP F	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP G	28.2324	42.3486	2,258.59	4,893.61	58,723.39
		STEP H	29.6442	44.4663	2,371.53	5,138.32	61,659.93
3319	FLEET MANAGEMENT TECHNICIAN	STEP A	26.0606	39.0909	2,084.84	4,517.17	54,206.04
		STEP B	27.3636	41.0454	2,189.08	4,743.02	56,916.28
		STEP C	28.7319	43.0978	2,298.55	4,980.19	59,762.35
		STEP D	30.1682	45.2523	2,413.45	5,229.15	62,749.85
		STEP E	31.6768	47.5152	2,534.14	5,490.64	65,887.74
		STEP F	33.2607	49.8910	2,660.85	5,765.18	69,182.25
		STEP G	34.9237	52.3855	2,793.89	6,053.44	72,641.29
		STEP H	36.6698	55.0047	2,933.58	6,356.09	76,273.18
3410	GIS ANALYST I	STEP A	25.9797	38.9695	2,078.37	4,503.14	54,037.77
		STEP B	27.2787	40.9180	2,182.29	4,728.30	56,739.69
		STEP C	28.6427	42.9640	2,291.41	4,964.73	59,576.81
		STEP D	30.0748	45.1122	2,405.98	5,212.96	62,555.58
		STEP E	31.5786	47.3679	2,526.28	5,473.62	65,683.48
		STEP F	33.1574	49.7361	2,652.59	5,747.28	68,967.39
		STEP G	34.8154	52.2231	2,785.23	6,034.66	72,416.03
		STEP H	36.5560	54.8340	2,924.48	6,336.37	76,036.48

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
3412	GIS ANALYST II	STEP A	28.7899	43.1848	2,303.19	4,990.24	59,882.99
		STEP B	30.2294	45.3441	2,418.35	5,239.76	62,877.15
		STEP C	31.7408	47.6112	2,539.26	5,501.73	66,020.86
		STEP D	33.3277	49.9915	2,666.21	5,776.80	69,321.61
		STEP E	34.9942	52.4913	2,799.53	6,065.66	72,787.93
		STEP F	36.7440	55.1160	2,939.52	6,368.96	76,427.52
		STEP G	38.5811	57.8716	3,086.48	6,687.39	80,248.68
		STEP H	40.5101	60.7651	3,240.80	7,021.75	84,261.00
3401	HOUSING ANALYST I	STEP A	26.1457	39.2185	2,091.65	4,531.92	54,383.05
		STEP B	27.4530	41.1795	2,196.24	4,758.52	57,102.24
		STEP C	28.8256	43.2384	2,306.04	4,996.43	59,957.24
		STEP D	30.2668	45.4002	2,421.34	5,246.24	62,954.94
		STEP E	31.7801	47.6701	2,542.40	5,508.55	66,102.60
		STEP F	33.3693	50.0539	2,669.54	5,784.01	69,408.14
		STEP G	35.0377	52.5565	2,803.01	6,073.20	72,878.41
		STEP H	36.7896	55.1844	2,943.16	6,376.86	76,522.36
3402	HOUSING ANALYST II	STEP A	28.7602	43.1403	2,300.81	4,985.10	59,821.21
		STEP B	30.1983	45.2974	2,415.86	5,234.37	62,812.46
		STEP C	31.7083	47.5624	2,536.66	5,496.10	65,953.26
		STEP D	33.2936	49.9404	2,663.48	5,770.89	69,250.68
		STEP E	34.9586	52.4379	2,796.68	6,059.49	72,713.88
		STEP F	36.7064	55.0596	2,936.51	6,362.44	76,349.31
		STEP G	38.5420	57.8130	3,083.36	6,680.61	80,167.36
		STEP H	40.4687	60.7030	3,237.49	7,014.57	84,174.89
3591	HOUSING TECHNICIAN I	STEP A	18.4854	27.7281	1,478.83	3,204.13	38,449.63
		STEP B	19.4096	29.1144	1,552.76	3,364.33	40,371.96
		STEP C	20.3801	30.5701	1,630.40	3,532.55	42,390.60
		STEP D	21.3991	32.0986	1,711.92	3,709.17	44,510.12
		STEP E	22.4691	33.7036	1,797.52	3,894.64	46,735.72
		STEP F	23.5925	35.3887	1,887.40	4,089.36	49,072.40
		STEP G	24.7722	37.1583	1,981.77	4,293.84	51,526.17
		STEP H	26.0107	39.0160	2,080.85	4,508.52	54,102.25

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3592	HOUSING TECHNICIAN II						
		STEP A	20.3346	30.5019	1,626.76	3,524.66	42,295.96
		STEP B	21.3514	32.0271	1,708.11	3,700.90	44,410.91
		STEP C	22.4186	33.6279	1,793.48	3,885.89	46,630.68
		STEP D	23.5397	35.3095	1,883.17	4,080.21	48,962.57
		STEP E	24.7167	37.0750	1,977.33	4,284.22	51,410.73
		STEP F	25.9524	38.9286	2,076.19	4,498.41	53,980.99
		STEP G	27.2501	40.8751	2,180.00	4,723.35	56,680.20
		STEP H	28.6127	42.9190	2,289.01	4,959.53	59,514.41
3604	INDUSTRIAL WASTE SPECIALIST						
		STEP A	26.6112	39.9168	2,128.89	4,612.60	55,351.29
		STEP B	27.9416	41.9124	2,235.32	4,843.21	58,118.52
		STEP C	29.3386	44.0079	2,347.08	5,085.35	61,024.28
		STEP D	30.8057	46.2085	2,464.45	5,339.65	64,075.85
		STEP E	32.3460	48.5190	2,587.68	5,606.64	67,279.68
		STEP F	33.9632	50.9448	2,717.05	5,886.95	70,643.45
		STEP G	35.6614	53.4921	2,852.91	6,181.30	74,175.71
		STEP H	37.4445	56.1667	2,995.56	6,490.38	77,884.56
3610	INDUSTRIAL WASTE TECHNICIAN						
		STEP A	23.1393	34.7089	1,851.14	4,010.81	48,129.74
		STEP B	24.2962	36.4443	1,943.69	4,211.34	50,536.09
		STEP C	25.5111	38.2666	2,040.88	4,421.92	53,063.08
		STEP D	26.7866	40.1799	2,142.92	4,643.01	55,716.12
		STEP E	28.1260	42.1890	2,250.08	4,875.17	58,502.08
		STEP F	29.5323	44.2984	2,362.58	5,118.93	61,427.18
		STEP G	31.0090	46.5135	2,480.72	5,374.89	64,498.72
		STEP H	32.5593	48.8389	2,604.74	5,643.61	67,723.34
3730	INTERPRETIVE SRVC SPECIALST I						
		STEP A	19.6833	29.5249	1,574.66	3,411.77	40,941.26
		STEP B	20.6675	31.0012	1,653.40	3,582.36	42,988.40
		STEP C	21.7008	32.5512	1,736.06	3,761.47	45,137.66
		STEP D	22.7859	34.1788	1,822.87	3,949.55	47,394.67
		STEP E	23.9252	35.8878	1,914.01	4,147.03	49,764.41
		STEP F	25.1214	37.6821	2,009.71	4,354.37	52,252.51
		STEP G	26.3774	39.5661	2,110.19	4,572.08	54,864.99
		STEP H	27.6963	41.5444	2,215.70	4,800.69	57,608.30

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3732	INTERPRETIVE SRVC SPECIALST II						
		STEP A	21.6515	32.4772	1,732.12	3,752.92	45,035.12
		STEP B	22.7343	34.1014	1,818.74	3,940.61	47,287.34
		STEP C	23.8709	35.8063	1,909.67	4,137.62	49,651.47
		STEP D	25.0644	37.5966	2,005.15	4,344.49	52,133.95
		STEP E	26.3177	39.4765	2,105.41	4,561.73	54,740.81
		STEP F	27.6334	41.4501	2,210.67	4,789.78	57,477.47
		STEP G	29.0152	43.5228	2,321.21	5,029.30	60,351.61
		STEP H	30.4659	45.6988	2,437.27	5,280.75	63,369.07
5075	IRRIGATION TECHNICIAN						
		STEP A	24.2277	36.3415	1,938.21	4,199.46	50,393.61
		STEP B	25.4391	38.1586	2,035.12	4,409.44	52,913.32
		STEP C	26.7110	40.0665	2,136.88	4,629.90	55,558.88
		STEP D	28.0465	42.0697	2,243.72	4,861.39	58,336.72
		STEP E	29.4489	44.1733	2,355.91	5,104.47	61,253.71
		STEP F	30.9213	46.3819	2,473.70	5,359.69	64,316.30
		STEP G	32.4674	48.7011	2,597.39	5,627.68	67,532.19
		STEP H	34.0907	51.1360	2,727.25	5,909.05	70,908.65
3793	IT ANALYST I						
		STEP A	27.3989	41.0983	2,191.91	4,749.14	56,989.71
		STEP B	28.7688	43.1532	2,301.50	4,986.59	59,839.10
		STEP C	30.2072	45.3108	2,416.57	5,235.91	62,830.97
		STEP D	31.7176	47.5764	2,537.40	5,497.71	65,972.60
		STEP E	33.3036	49.9554	2,664.28	5,772.62	69,271.48
		STEP F	34.9688	52.4532	2,797.50	6,061.25	72,735.10
		STEP G	36.7171	55.0756	2,937.36	6,364.29	76,371.56
		STEP H	38.5530	57.8295	3,084.24	6,682.52	80,190.24
3794	IT ANALYST II						
		STEP A	30.1390	45.2085	2,411.12	5,224.09	62,689.12
		STEP B	31.6458	47.4687	2,531.66	5,485.27	65,823.26
		STEP C	33.2281	49.8421	2,658.24	5,759.53	69,114.44
		STEP D	34.8894	52.3341	2,791.15	6,047.49	72,569.95
		STEP E	36.6340	54.9510	2,930.72	6,349.89	76,198.72
		STEP F	38.4659	57.6988	3,077.27	6,667.42	80,009.07
		STEP G	40.3890	60.5835	3,231.12	7,000.76	84,009.12
		STEP H	42.4083	63.6124	3,392.66	7,350.77	88,209.26

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3616	IT PLANNING & POLICY TECH	STEP A	21.4856	32.2284	1,718.84	3,724.17	44,690.04
		STEP B	22.5596	33.8394	1,804.76	3,910.33	46,923.96
		STEP C	23.6879	35.5318	1,895.03	4,105.90	49,270.83
		STEP D	24.8723	37.3084	1,989.78	4,311.19	51,734.38
		STEP E	26.1157	39.1735	2,089.25	4,526.72	54,320.65
		STEP F	27.4216	41.1324	2,193.72	4,753.07	57,036.92
		STEP G	28.7928	43.1892	2,303.42	4,990.75	59,889.02
		STEP H	30.2321	45.3481	2,418.56	5,240.23	62,882.76
3617	IT TECHNICIAN I	STEP A	20.8834	31.3251	1,670.67	3,619.78	43,437.47
		STEP B	21.9275	32.8912	1,754.20	3,800.76	45,609.20
		STEP C	23.0238	34.5357	1,841.90	3,990.79	47,889.50
		STEP D	24.1752	36.2628	1,934.01	4,190.36	50,284.41
		STEP E	25.3840	38.0760	2,030.72	4,399.89	52,798.72
		STEP F	26.6531	39.9796	2,132.24	4,619.87	55,438.44
		STEP G	27.9858	41.9787	2,238.86	4,850.87	58,210.46
		STEP H	29.3850	44.0775	2,350.80	5,093.40	61,120.80
3618	IT TECHNICIAN II	STEP A	22.9719	34.4578	1,837.75	3,981.79	47,781.55
		STEP B	24.1202	36.1803	1,929.61	4,180.83	50,170.01
		STEP C	25.3265	37.9897	2,026.12	4,389.92	52,679.12
		STEP D	26.5928	39.8892	2,127.42	4,609.41	55,313.02
		STEP E	27.9223	41.8834	2,233.78	4,839.86	58,078.38
		STEP F	29.3185	43.9777	2,345.48	5,081.87	60,982.48
		STEP G	30.7845	46.1767	2,462.76	5,335.98	64,031.76
		STEP H	32.3235	48.4852	2,585.88	5,602.74	67,232.88
3792	JR ENGINEER	STEP A	27.9568	41.9352	2,236.54	4,845.84	58,150.14
		STEP B	29.3546	44.0319	2,348.36	5,088.13	61,057.56
		STEP C	30.8224	46.2336	2,465.79	5,342.54	64,110.59
		STEP D	32.3635	48.5452	2,589.08	5,609.67	67,316.08
		STEP E	33.9816	50.9724	2,718.52	5,890.14	70,681.72
		STEP F	35.6807	53.5210	2,854.45	6,184.65	74,215.85
		STEP G	37.4652	56.1978	2,997.21	6,493.96	77,927.61
		STEP H	39.3384	59.0076	3,147.07	6,818.65	81,823.87

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
4010	LABORATORY TECHNICIAN I						
		STEP A	18.9491	28.4236	1,515.92	3,284.51	39,414.12
		STEP B	19.8967	29.8450	1,591.73	3,448.76	41,385.13
		STEP C	20.8915	31.3372	1,671.32	3,621.19	43,454.32
		STEP D	21.9361	32.9041	1,754.88	3,802.25	45,627.08
		STEP E	23.0328	34.5492	1,842.62	3,992.35	47,908.22
		STEP F	24.1847	36.2770	1,934.77	4,192.01	50,304.17
		STEP G	25.3940	38.0910	2,031.52	4,401.62	52,819.52
		STEP H	26.6636	39.9954	2,133.08	4,621.69	55,460.28
4020	LABORATORY TECHNICIAN II						
		STEP A	21.0357	31.5535	1,682.85	3,646.18	43,754.25
		STEP B	22.0875	33.1312	1,767.00	3,828.50	45,942.00
		STEP C	23.1919	34.7878	1,855.35	4,019.92	48,239.15
		STEP D	24.3516	36.5274	1,948.12	4,220.94	50,651.32
		STEP E	25.5691	38.3536	2,045.52	4,431.97	53,183.72
		STEP F	26.8477	40.2715	2,147.81	4,653.60	55,843.21
		STEP G	28.1901	42.2851	2,255.20	4,886.28	58,635.40
		STEP H	29.5995	44.3992	2,367.96	5,130.58	61,566.96
4151	LIBRARIAN I						
		STEP A	20.5906	30.8859	1,647.24	3,569.03	42,828.44
		STEP B	21.6201	32.4301	1,729.60	3,747.48	44,969.80
		STEP C	22.7012	34.0518	1,816.09	3,934.87	47,218.49
		STEP D	23.8362	35.7543	1,906.89	4,131.60	49,579.29
		STEP E	25.0280	37.5420	2,002.24	4,338.18	52,058.24
		STEP F	26.2794	39.4191	2,102.35	4,555.09	54,661.15
		STEP G	27.5933	41.3899	2,207.46	4,782.83	57,394.06
		STEP H	28.9731	43.4596	2,317.84	5,022.00	60,264.04
4152	LIBRARIAN II						
		STEP A	22.6496	33.9744	1,811.96	3,925.93	47,111.16
		STEP B	23.7820	35.6730	1,902.56	4,122.21	49,466.56
		STEP C	24.9713	37.4569	1,997.70	4,328.35	51,940.30
		STEP D	26.2198	39.3297	2,097.58	4,544.76	54,537.18
		STEP E	27.5310	41.2965	2,202.48	4,772.04	57,264.48
		STEP F	28.9072	43.3608	2,312.57	5,010.58	60,126.97
		STEP G	30.3530	45.5295	2,428.24	5,261.18	63,134.24
		STEP H	31.8703	47.8054	2,549.62	5,524.18	66,290.22

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4200	LIBRARY ASSISTANT I	STEP A	16.0709	24.1063	1,285.67	2,785.62	33,427.47
		STEP B	16.8746	25.3119	1,349.96	2,924.93	35,099.16
		STEP C	17.7182	26.5773	1,417.45	3,071.15	36,853.85
		STEP D	18.6042	27.9063	1,488.33	3,224.72	38,696.73
		STEP E	19.5343	29.3014	1,562.74	3,385.94	40,631.34
		STEP F	20.5111	30.7666	1,640.88	3,555.25	42,663.08
		STEP G	21.5366	32.3049	1,722.92	3,733.01	44,796.12
		STEP H	22.6134	33.9201	1,809.07	3,919.65	47,035.87
4210	LIBRARY ASSISTANT II	STEP A	17.6780	26.5170	1,414.24	3,064.18	36,770.24
		STEP B	18.5621	27.8431	1,484.96	3,217.43	38,609.16
		STEP C	19.4901	29.2351	1,559.20	3,378.28	40,539.40
		STEP D	20.4645	30.6967	1,637.16	3,547.18	42,566.16
		STEP E	21.4878	32.2317	1,719.02	3,724.55	44,694.62
		STEP F	22.5622	33.8433	1,804.97	3,910.78	46,929.37
		STEP G	23.6903	35.5354	1,895.22	4,106.31	49,275.82
		STEP H	24.8748	37.3122	1,989.98	4,311.63	51,739.58
4250	LIBRARY TECHNICIAN	STEP A	21.5303	32.2954	1,722.42	3,731.91	44,783.02
		STEP B	22.6070	33.9105	1,808.56	3,918.54	47,022.56
		STEP C	23.7372	35.6058	1,898.97	4,114.44	49,373.37
		STEP D	24.9241	37.3861	1,993.92	4,320.17	51,842.12
		STEP E	26.1703	39.2554	2,093.62	4,536.18	54,434.22
		STEP F	27.4787	41.2180	2,198.29	4,762.97	57,155.69
		STEP G	28.8527	43.2790	2,308.21	5,001.13	60,013.61
		STEP H	30.2953	45.4429	2,423.62	5,251.18	63,014.22
4516	MARKETING & COMMUNIC ANLYST I	STEP A	23.2339	34.8508	1,858.71	4,027.20	48,326.51
		STEP B	24.3953	36.5929	1,951.62	4,228.51	50,742.22
		STEP C	25.6152	38.4228	2,049.21	4,439.96	53,279.61
		STEP D	26.8960	40.3440	2,151.68	4,661.97	55,943.68
		STEP E	28.2407	42.3610	2,259.25	4,895.05	58,740.65
		STEP F	29.6529	44.4793	2,372.23	5,139.83	61,678.03
		STEP G	31.1355	46.7032	2,490.84	5,396.82	64,761.84
		STEP H	32.6923	49.0384	2,615.38	5,666.66	67,999.98

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4517	MARKETING & COMMUNIC ANLYST II						
		STEP A	25.5570	38.3355	2,044.56	4,429.88	53,158.56
		STEP B	26.8349	40.2523	2,146.79	4,651.38	55,816.59
		STEP C	28.1767	42.2650	2,254.13	4,883.96	58,607.53
		STEP D	29.5856	44.3784	2,366.84	5,128.17	61,538.04
		STEP E	31.0649	46.5973	2,485.19	5,384.58	64,614.99
		STEP F	32.6182	48.9273	2,609.45	5,653.82	67,845.85
		STEP G	34.2490	51.3735	2,739.92	5,936.49	71,237.92
		STEP H	35.9615	53.9422	2,876.92	6,233.32	74,799.92
4500	MECHANIC I						
		STEP A	21.5375	32.3062	1,723.00	3,733.16	44,798.00
		STEP B	22.6145	33.9217	1,809.16	3,919.84	47,038.16
		STEP C	23.7451	35.6176	1,899.60	4,115.81	49,389.80
		STEP D	24.9324	37.3986	1,994.59	4,321.61	51,859.39
		STEP E	26.1791	39.2686	2,094.32	4,537.71	54,452.52
		STEP F	27.4880	41.2320	2,199.04	4,764.58	57,175.04
		STEP G	28.8624	43.2936	2,308.99	5,002.81	60,033.79
		STEP H	30.3055	45.4582	2,424.44	5,252.95	63,035.44
4501	MECHANIC II						
		STEP A	23.6913	35.5369	1,895.30	4,106.49	49,277.90
		STEP B	24.8760	37.3140	1,990.08	4,311.84	51,742.08
		STEP C	26.1198	39.1797	2,089.58	4,527.43	54,329.18
		STEP D	27.4259	41.1388	2,194.07	4,753.82	57,045.87
		STEP E	28.7972	43.1958	2,303.77	4,991.51	59,898.17
		STEP F	30.2371	45.3556	2,418.96	5,241.09	62,893.16
		STEP G	31.7490	47.6235	2,539.92	5,503.16	66,037.92
		STEP H	33.3367	50.0050	2,666.93	5,778.36	69,340.33
4540	METER READER						
		STEP A	19.1087	28.6630	1,528.69	3,312.17	39,746.09
		STEP B	20.0642	30.0963	1,605.13	3,477.79	41,733.53
		STEP C	21.0673	31.6009	1,685.38	3,651.66	43,819.98
		STEP D	22.1207	33.1810	1,769.65	3,834.25	46,011.05
		STEP E	23.2267	34.8400	1,858.13	4,025.96	48,311.53
		STEP F	24.3881	36.5821	1,951.04	4,227.27	50,727.24
		STEP G	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP H	26.8880	40.3320	2,151.04	4,660.58	55,927.04

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
4534	METER SERVICE WORKER						
		STEP A	20.0640	30.0960	1,605.12	3,477.76	41,733.12
		STEP B	21.0670	31.6005	1,685.36	3,651.61	43,819.36
		STEP C	22.1205	33.1807	1,769.64	3,834.22	46,010.64
		STEP D	23.2265	34.8397	1,858.12	4,025.92	48,311.12
		STEP E	24.3878	36.5817	1,951.02	4,227.21	50,726.62
		STEP F	25.6072	38.4108	2,048.57	4,438.58	53,262.97
		STEP G	26.8874	40.3311	2,150.99	4,660.48	55,925.79
		STEP H	28.2319	42.3478	2,258.55	4,893.52	58,722.35
4862	NATURAL RESOURCES TECHNICIAN						
		STEP A	23.6910	35.5365	1,895.28	4,106.44	49,277.28
		STEP B	24.8757	37.3135	1,990.05	4,311.78	51,741.45
		STEP C	26.1193	39.1789	2,089.54	4,527.34	54,328.14
		STEP D	27.4254	41.1381	2,194.03	4,753.73	57,044.83
		STEP E	28.7966	43.1949	2,303.72	4,991.41	59,896.92
		STEP F	30.2366	45.3549	2,418.92	5,241.01	62,892.12
		STEP G	31.7483	47.6224	2,539.86	5,503.03	66,036.46
		STEP H	33.3357	50.0035	2,666.85	5,778.18	69,338.25
4870	NATURAL RESOURCES WKR I						
		STEP A	18.2400	27.3600	1,459.20	3,161.60	37,939.20
		STEP B	19.1521	28.7281	1,532.16	3,319.69	39,836.36
		STEP C	20.1097	30.1645	1,608.77	3,485.68	41,828.17
		STEP D	21.1152	31.6728	1,689.21	3,659.96	43,919.61
		STEP E	22.1709	33.2563	1,773.67	3,842.95	46,115.47
		STEP F	23.2795	34.9192	1,862.36	4,035.11	48,421.36
		STEP G	24.4435	36.6652	1,955.48	4,236.87	50,842.48
		STEP H	25.6656	38.4984	2,053.24	4,448.70	53,384.44
4872	NATURAL RESOURCES WKR II						
		STEP A	20.0642	30.0963	1,605.13	3,477.79	41,733.53
		STEP B	21.0675	31.6012	1,685.40	3,651.70	43,820.40
		STEP C	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP D	23.2268	34.8402	1,858.14	4,025.97	48,311.74
		STEP E	24.3882	36.5823	1,951.05	4,227.28	50,727.45
		STEP F	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP G	26.8880	40.3320	2,151.04	4,660.58	55,927.04
		STEP H	28.2324	42.3486	2,258.59	4,893.61	58,723.39

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
4956	OFFICE ASSISTANT I	STEP A	15.4152	23.1228	1,233.21	2,671.96	32,063.61
		STEP B	16.1861	24.2791	1,294.88	2,805.59	33,667.08
		STEP C	16.9952	25.4928	1,359.61	2,945.83	35,350.01
		STEP D	17.8450	26.7675	1,427.60	3,093.13	37,117.60
		STEP E	18.7375	28.1062	1,499.00	3,247.83	38,974.00
		STEP F	19.6741	29.5111	1,573.92	3,410.17	40,922.12
		STEP G	20.6580	30.9870	1,652.64	3,580.72	42,968.64
		STEP H	21.6907	32.5360	1,735.25	3,759.72	45,116.65
4957	OFFICE ASSISTANT II	STEP A	16.9566	25.4349	1,356.52	2,939.14	35,269.72
		STEP B	17.8045	26.7067	1,424.36	3,086.11	37,033.36
		STEP C	18.6948	28.0422	1,495.58	3,240.43	38,885.18
		STEP D	19.6295	29.4442	1,570.36	3,402.44	40,829.36
		STEP E	20.6108	30.9162	1,648.86	3,572.53	42,870.46
		STEP F	21.6415	32.4622	1,731.32	3,751.19	45,014.32
		STEP G	22.7236	34.0854	1,817.88	3,938.75	47,265.08
		STEP H	23.8597	35.7895	1,908.77	4,135.68	49,628.17
5070	PARKS MAINTENANCE WORKER I	STEP A	17.3715	26.0572	1,389.72	3,011.06	36,132.72
		STEP B	18.2402	27.3603	1,459.21	3,161.63	37,939.61
		STEP C	19.1521	28.7281	1,532.16	3,319.69	39,836.36
		STEP D	20.1098	30.1647	1,608.78	3,485.69	41,828.38
		STEP E	21.1151	31.6726	1,689.20	3,659.95	43,919.40
		STEP F	22.1708	33.2562	1,773.66	3,842.93	46,115.26
		STEP G	23.2795	34.9192	1,862.36	4,035.11	48,421.36
		STEP H	24.4435	36.6652	1,955.48	4,236.87	50,842.48
5080	PARKS MAINTENANCE WORKER II	STEP A	19.1087	28.6630	1,528.69	3,312.17	39,746.09
		STEP B	20.0642	30.0963	1,605.13	3,477.79	41,733.53
		STEP C	21.0673	31.6009	1,685.38	3,651.66	43,819.98
		STEP D	22.1207	33.1810	1,769.65	3,834.25	46,011.05
		STEP E	23.2267	34.8400	1,858.13	4,025.96	48,311.53
		STEP F	24.3884	36.5826	1,951.07	4,227.32	50,727.87
		STEP G	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP H	26.8880	40.3320	2,151.04	4,660.58	55,927.04

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
5045	PARKS, REC & LIBRARIES TECH						
		STEP A	22.1530	33.2295	1,772.24	3,839.85	46,078.24
		STEP B	23.2608	34.8912	1,860.86	4,031.87	48,382.46
		STEP C	24.4237	36.6355	1,953.89	4,233.44	50,801.29
		STEP D	25.6449	38.4673	2,051.59	4,445.11	53,341.39
		STEP E	26.9272	40.3908	2,154.17	4,667.38	56,008.57
		STEP F	28.2734	42.4101	2,261.87	4,900.72	58,808.67
		STEP G	29.6872	44.5308	2,374.97	5,145.78	61,749.37
		STEP H	31.1715	46.7572	2,493.72	5,403.06	64,836.72
5245	PERMIT ANALYST						
		STEP A	30.3640	45.5460	2,429.12	5,263.09	63,157.12
		STEP B	31.8820	47.8230	2,550.56	5,526.21	66,314.56
		STEP C	33.4763	50.2144	2,678.10	5,802.55	69,630.70
		STEP D	35.1501	52.7251	2,812.00	6,092.68	73,112.20
		STEP E	36.9075	55.3612	2,952.60	6,397.30	76,767.60
		STEP F	38.7529	58.1293	3,100.23	6,717.16	80,606.03
		STEP G	40.6905	61.0357	3,255.24	7,053.02	84,636.24
		STEP H	42.7249	64.0873	3,417.99	7,405.64	88,867.79
5277	PERMITS TECHNICIAN I						
		STEP A	21.5373	32.3059	1,722.98	3,733.13	44,797.58
		STEP B	22.6142	33.9213	1,809.13	3,919.79	47,037.53
		STEP C	23.7448	35.6172	1,899.58	4,115.76	49,389.18
		STEP D	24.9322	37.3983	1,994.57	4,321.58	51,858.97
		STEP E	26.1788	39.2682	2,094.30	4,537.65	54,451.90
		STEP F	27.4878	41.2317	2,199.02	4,764.55	57,174.62
		STEP G	28.8621	43.2931	2,308.96	5,002.76	60,033.16
		STEP H	30.3052	45.4578	2,424.41	5,252.90	63,034.81
5279	PERMITS TECHNICIAN II						
		STEP A	23.6910	35.5365	1,895.28	4,106.44	49,277.28
		STEP B	24.8757	37.3135	1,990.05	4,311.78	51,741.45
		STEP C	26.1193	39.1789	2,089.54	4,527.34	54,328.14
		STEP D	27.4254	41.1381	2,194.03	4,753.73	57,044.83
		STEP E	28.7966	43.1949	2,303.72	4,991.41	59,896.92
		STEP F	30.2366	45.3549	2,418.92	5,241.01	62,892.12
		STEP G	31.7483	47.6224	2,539.86	5,503.03	66,036.46
		STEP H	33.3357	50.0035	2,666.85	5,778.18	69,338.25

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
5311	PLANNING SYSTEMS ANALYST						
		STEP A	30.3640	45.5460	2,429.12	5,263.09	63,157.12
		STEP B	31.8820	47.8230	2,550.56	5,526.21	66,314.56
		STEP C	33.4763	50.2144	2,678.10	5,802.55	69,630.70
		STEP D	35.1501	52.7251	2,812.00	6,092.68	73,112.20
		STEP E	36.9075	55.3612	2,952.60	6,397.30	76,767.60
		STEP F	38.7529	58.1293	3,100.23	6,717.16	80,606.03
		STEP G	40.6905	61.0357	3,255.24	7,053.02	84,636.24
		STEP H	42.7249	64.0873	3,417.99	7,405.64	88,867.79
5314	PLANNING SYSTEMS TECHNICIAN I						
		STEP A	21.5373	32.3059	1,722.98	3,733.13	44,797.58
		STEP B	22.6142	33.9213	1,809.13	3,919.79	47,037.53
		STEP C	23.7449	35.6173	1,899.59	4,115.78	49,389.39
		STEP D	24.9322	37.3983	1,994.57	4,321.58	51,858.97
		STEP E	26.1788	39.2682	2,094.30	4,537.65	54,451.90
		STEP F	27.4879	41.2318	2,199.03	4,764.56	57,174.83
		STEP G	28.8622	43.2933	2,308.97	5,002.78	60,033.37
		STEP H	30.3053	45.4579	2,424.42	5,252.91	63,035.02
5315	PLANNING SYSTEMS TECHNICIAN II						
		STEP A	23.6910	35.5365	1,895.28	4,106.44	49,277.28
		STEP B	24.8757	37.3135	1,990.05	4,311.78	51,741.45
		STEP C	26.1193	39.1789	2,089.54	4,527.34	54,328.14
		STEP D	27.4254	41.1381	2,194.03	4,753.73	57,044.83
		STEP E	28.7966	43.1949	2,303.72	4,991.41	59,896.92
		STEP F	30.2366	45.3549	2,418.92	5,241.01	62,892.12
		STEP G	31.7483	47.6224	2,539.86	5,503.03	66,036.46
		STEP H	33.3357	50.0035	2,666.85	5,778.18	69,338.25
5560	PROJECT COORDINATOR						
		STEP A	27.1835	40.7752	2,174.68	4,711.80	56,541.68
		STEP B	28.5427	42.8140	2,283.41	4,947.40	59,368.81
		STEP C	29.9697	44.9545	2,397.57	5,194.74	62,336.97
		STEP D	31.4681	47.2021	2,517.44	5,454.47	65,453.64
		STEP E	33.0416	49.5624	2,643.32	5,727.21	68,726.52
		STEP F	34.6937	52.0405	2,775.49	6,013.57	72,162.89
		STEP G	36.4285	54.6427	2,914.28	6,314.27	75,771.28
		STEP H	38.2498	57.3747	3,059.98	6,629.96	79,559.58

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
5562	PROJECT PLANNER						
		STEP A	33.3995	50.0992	2,671.96	5,789.24	69,470.96
		STEP B	35.0693	52.6039	2,805.54	6,078.67	72,944.14
		STEP C	36.8228	55.2342	2,945.82	6,382.61	76,591.42
		STEP D	38.6640	57.9960	3,093.12	6,701.76	80,421.12
		STEP E	40.5972	60.8958	3,247.77	7,036.84	84,442.17
		STEP F	42.6270	63.9405	3,410.16	7,388.68	88,664.16
		STEP G	44.7584	67.1376	3,580.67	7,758.12	93,097.47
		STEP H	46.9963	70.4944	3,759.70	8,146.02	97,752.30
6121	RECREATION COORDINATOR I						
		STEP A	19.6833	29.5249	1,574.66	3,411.77	40,941.26
		STEP B	20.6675	31.0012	1,653.40	3,582.36	42,988.40
		STEP C	21.7008	32.5512	1,736.06	3,761.47	45,137.66
		STEP D	22.7859	34.1788	1,822.87	3,949.55	47,394.67
		STEP E	23.9252	35.8878	1,914.01	4,147.03	49,764.41
		STEP F	25.1214	37.6821	2,009.71	4,354.37	52,252.51
		STEP G	26.3774	39.5661	2,110.19	4,572.08	54,864.99
		STEP H	27.6963	41.5444	2,215.70	4,800.69	57,608.30
6122	RECREATION COORDINATOR II						
		STEP A	21.6515	32.4772	1,732.12	3,752.92	45,035.12
		STEP B	22.7343	34.1014	1,818.74	3,940.61	47,287.34
		STEP C	23.8709	35.8063	1,909.67	4,137.62	49,651.47
		STEP D	25.0644	37.5966	2,005.15	4,344.49	52,133.95
		STEP E	26.3177	39.4765	2,105.41	4,561.73	54,740.81
		STEP F	27.6334	41.4501	2,210.67	4,789.78	57,477.47
		STEP G	29.0152	43.5228	2,321.21	5,029.30	60,351.61
		STEP H	30.4659	45.6988	2,437.27	5,280.75	63,369.07
6225	REFUSE MAINTENANCE WORKER I						
		STEP A	16.8361	25.2541	1,346.88	2,918.25	35,019.08
		STEP B	17.6779	26.5168	1,414.23	3,064.16	36,770.03
		STEP C	18.5620	27.8430	1,484.96	3,217.41	38,608.96
		STEP D	19.4900	29.2350	1,559.20	3,378.26	40,539.20
		STEP E	20.4644	30.6966	1,637.15	3,547.16	42,565.95
		STEP F	21.4877	32.2315	1,719.01	3,724.53	44,694.41
		STEP G	22.5621	33.8431	1,804.96	3,910.76	46,929.16
		STEP H	23.6901	35.5351	1,895.20	4,106.28	49,275.40

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Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
6226	REFUSE MAINTENANCE WORKER II	STEP A	20.0640	30.0960	1,605.12	3,477.76	41,733.12
		STEP B	21.0670	31.6005	1,685.36	3,651.61	43,819.36
		STEP C	22.1205	33.1807	1,769.64	3,834.22	46,010.64
		STEP D	23.2265	34.8397	1,858.12	4,025.92	48,311.12
		STEP E	24.3878	36.5817	1,951.02	4,227.21	50,726.62
		STEP F	25.6072	38.4108	2,048.57	4,438.58	53,262.97
		STEP G	26.8874	40.3311	2,150.99	4,660.48	55,925.79
		STEP H	28.2319	42.3478	2,258.55	4,893.52	58,722.35
6302	REFUSE TRUCK DRIVER I	STEP A	17.9684	26.9526	1,437.47	3,114.52	37,374.27
		STEP B	18.8668	28.3002	1,509.34	3,270.24	39,242.94
		STEP C	19.8102	29.7153	1,584.81	3,433.76	41,205.21
		STEP D	20.8008	31.2012	1,664.06	3,605.47	43,265.66
		STEP E	21.8408	32.7612	1,747.26	3,785.73	45,428.86
		STEP F	22.9329	34.3993	1,834.63	3,975.03	47,700.43
		STEP G	24.0795	36.1192	1,926.36	4,173.78	50,085.36
		STEP H	25.2834	37.9251	2,022.67	4,382.45	52,589.47
6304	REFUSE TRUCK DRIVER II	STEP A	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP B	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP C	23.2269	34.8403	1,858.15	4,026.00	48,311.95
		STEP D	24.3885	36.5827	1,951.08	4,227.34	50,728.08
		STEP E	25.6077	38.4115	2,048.61	4,438.66	53,264.01
		STEP F	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP G	28.2324	42.3486	2,258.59	4,893.61	58,723.39
		STEP H	29.6442	44.4663	2,371.53	5,138.32	61,659.93
7324	SOLID WASTE BILLING TECH	STEP A	20.4446	30.6669	1,635.56	3,543.73	42,524.76
		STEP B	21.4667	32.2000	1,717.33	3,720.89	44,650.73
		STEP C	22.5404	33.8106	1,803.23	3,907.00	46,884.03
		STEP D	23.6671	35.5006	1,893.36	4,102.29	49,227.56
		STEP E	24.8504	37.2756	1,988.03	4,307.40	51,688.83
		STEP F	26.0931	39.1396	2,087.44	4,522.80	54,273.64
		STEP G	27.3977	41.0965	2,191.81	4,748.93	56,987.21
		STEP H	28.7674	43.1511	2,301.39	4,986.34	59,836.19

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
7117	SR BUILDING INSPECTOR						
		STEP A	29.0604	43.5906	2,324.83	5,037.13	60,445.63
		STEP B	30.5134	45.7701	2,441.07	5,288.98	63,467.87
		STEP C	32.0392	48.0588	2,563.13	5,553.46	66,641.53
		STEP D	33.6411	50.4616	2,691.28	5,831.12	69,973.48
		STEP E	35.3232	52.9848	2,825.85	6,122.68	73,472.25
		STEP F	37.0895	55.6342	2,967.16	6,428.84	77,146.16
		STEP G	38.9438	58.4157	3,115.50	6,750.25	81,003.10
		STEP H	40.8910	61.3365	3,271.28	7,087.77	85,053.28
7119	SR BUILDING MAINTENANCE WKR						
		STEP A	24.2471	36.3706	1,939.76	4,202.83	50,433.96
		STEP B	25.4593	38.1889	2,036.74	4,412.94	52,955.34
		STEP C	26.7325	40.0987	2,138.60	4,633.63	55,603.60
		STEP D	28.0691	42.1036	2,245.52	4,865.31	58,383.72
		STEP E	29.4726	44.2089	2,357.80	5,108.58	61,303.00
		STEP F	30.9463	46.4194	2,475.70	5,364.02	64,368.30
		STEP G	32.4934	48.7401	2,599.47	5,632.18	67,586.27
		STEP H	34.1181	51.1771	2,729.44	5,913.80	70,965.64
7195	SR BUILDING PLANS EXAMINER						
		STEP A	29.3978	44.0967	2,351.82	5,095.61	61,147.42
		STEP B	30.8677	46.3015	2,469.41	5,350.40	64,204.81
		STEP C	32.4112	48.6168	2,592.89	5,617.94	67,415.29
		STEP D	34.0317	51.0475	2,722.53	5,898.82	70,785.93
		STEP E	35.7333	53.5999	2,858.66	6,193.77	74,325.26
		STEP F	37.5201	56.2801	3,001.60	6,503.48	78,041.80
		STEP G	39.3960	59.0940	3,151.68	6,828.64	81,943.68
		STEP H	41.3658	62.0487	3,309.26	7,170.07	86,040.86
7134	SR CODE ENFORCEMENT INSPECTOR						
		STEP A	29.0604	43.5906	2,324.83	5,037.13	60,445.63
		STEP B	30.5134	45.7701	2,441.07	5,288.98	63,467.87
		STEP C	32.0392	48.0588	2,563.13	5,553.46	66,641.53
		STEP D	33.6411	50.4616	2,691.28	5,831.12	69,973.48
		STEP E	35.3232	52.9848	2,825.85	6,122.68	73,472.25
		STEP F	37.0895	55.6342	2,967.16	6,428.84	77,146.16
		STEP G	38.9438	58.4157	3,115.50	6,750.25	81,003.10
		STEP H	40.8910	61.3365	3,271.28	7,087.77	85,053.28

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
7121	SR CONSTRUCTION INSPECTOR						
		STEP A	27.1835	40.7752	2,174.68	4,711.80	56,541.68
		STEP B	28.5427	42.8140	2,283.41	4,947.40	59,368.81
		STEP C	29.9697	44.9545	2,397.57	5,194.74	62,336.97
		STEP D	31.4681	47.2021	2,517.44	5,454.47	65,453.64
		STEP E	33.0415	49.5622	2,643.32	5,727.19	68,726.32
		STEP F	34.6937	52.0405	2,775.49	6,013.57	72,162.89
		STEP G	36.4286	54.6429	2,914.28	6,314.29	75,771.48
		STEP H	38.2498	57.3747	3,059.98	6,629.96	79,559.58
7144	SR CUSTODIAN						
		STEP A	18.7860	28.1790	1,502.88	3,256.24	39,074.88
		STEP B	19.7253	29.5879	1,578.02	3,419.05	41,028.62
		STEP C	20.7114	31.0671	1,656.91	3,589.97	43,079.71
		STEP D	21.7470	32.6205	1,739.76	3,769.48	45,233.76
		STEP E	22.8342	34.2513	1,826.73	3,957.92	47,495.13
		STEP F	23.9761	35.9641	1,918.08	4,155.85	49,870.28
		STEP G	25.1749	37.7623	2,013.99	4,363.64	52,363.79
		STEP H	26.4336	39.6504	2,114.68	4,581.82	54,981.88
7162	SR ENGINEERING TECHNICIAN						
		STEP A	24.4691	36.7036	1,957.52	4,241.31	50,895.72
		STEP B	25.6929	38.5393	2,055.43	4,453.43	53,441.23
		STEP C	26.9773	40.4659	2,158.18	4,676.06	56,112.78
		STEP D	28.3262	42.4893	2,266.09	4,909.87	58,918.49
		STEP E	29.7425	44.6137	2,379.40	5,155.36	61,864.40
		STEP F	31.2295	46.8442	2,498.36	5,413.11	64,957.36
		STEP G	32.7913	49.1869	2,623.30	5,683.82	68,205.90
		STEP H	34.4307	51.6460	2,754.45	5,967.98	71,615.85
7146	SR FINANCE CLERK						
		STEP A	19.5821	29.3731	1,566.56	3,394.23	40,730.76
		STEP B	20.5612	30.8418	1,644.89	3,563.94	42,767.29
		STEP C	21.5893	32.3839	1,727.14	3,742.14	44,905.74
		STEP D	22.6687	34.0030	1,813.49	3,929.24	47,150.89
		STEP E	23.8022	35.7033	1,904.17	4,125.71	49,508.57
		STEP F	24.9923	37.4884	1,999.38	4,332.00	51,983.98
		STEP G	26.2418	39.3627	2,099.34	4,548.57	54,582.94
		STEP H	27.5540	41.3310	2,204.32	4,776.02	57,312.32

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
7147	SR FINANCE TECHNICIAN						
		STEP A	22.4889	33.7333	1,799.11	3,898.07	46,776.91
		STEP B	23.6134	35.4201	1,889.07	4,092.98	49,115.87
		STEP C	24.7941	37.1911	1,983.52	4,297.64	51,571.72
		STEP D	27.3356	41.0034	2,186.84	4,738.17	56,858.04
		STEP F	28.7024	43.0536	2,296.19	4,975.08	59,700.99
		STEP G	30.1373	45.2059	2,410.98	5,223.79	62,685.58
		STEP H	31.6442	47.4663	2,531.53	5,484.99	65,819.93
7148	SR HOUSING TECHNICIAN						
		STEP A	23.0572	34.5858	1,844.57	3,996.58	47,958.97
		STEP B	24.2100	36.3150	1,936.80	4,196.40	50,356.80
		STEP C	25.4206	38.1309	2,033.64	4,406.23	52,874.84
		STEP D	26.6915	40.0372	2,135.32	4,626.52	55,518.32
		STEP E	28.0263	42.0394	2,242.10	4,857.89	58,294.70
		STEP F	29.4275	44.1412	2,354.20	5,100.76	61,209.20
		STEP G	30.8989	46.3483	2,471.91	5,355.80	64,269.71
		STEP H	32.4439	48.6658	2,595.51	5,623.60	67,483.31
7149	SR IT TECHNICIAN						
		STEP A	25.2686	37.9029	2,021.48	4,379.89	52,558.68
		STEP B	26.5322	39.7983	2,122.57	4,598.91	55,186.97
		STEP C	27.8588	41.7882	2,228.70	4,828.85	57,946.30
		STEP D	29.2516	43.8774	2,340.12	5,070.27	60,843.32
		STEP E	30.7143	46.0714	2,457.14	5,323.81	63,885.74
		STEP F	32.2500	48.3750	2,580.00	5,590.00	67,080.00
		STEP G	33.8626	50.7939	2,709.00	5,869.51	70,434.20
		STEP H	35.5557	53.3335	2,844.45	6,162.98	73,955.85
7189	SR MECHANIC						
		STEP A	26.0606	39.0909	2,084.84	4,517.17	54,206.04
		STEP B	27.3636	41.0454	2,189.08	4,743.02	56,916.28
		STEP C	28.7319	43.0978	2,298.55	4,980.19	59,762.35
		STEP D	30.1682	45.2523	2,413.45	5,229.15	62,749.85
		STEP E	31.6768	47.5152	2,534.14	5,490.64	65,887.74
		STEP F	33.2607	49.8910	2,660.85	5,765.18	69,182.25
		STEP G	34.9237	52.3855	2,793.89	6,053.44	72,641.29
		STEP H	36.6698	55.0047	2,933.58	6,356.09	76,273.18

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
7200	SR METER SERVICE WORKER						
		STEP A	22.0704	33.1056	1,765.63	3,825.53	45,906.43
		STEP B	23.1739	34.7608	1,853.91	4,016.80	48,201.71
		STEP C	24.3324	36.4986	1,946.59	4,217.61	50,611.39
		STEP D	25.5493	38.3239	2,043.94	4,428.54	53,142.54
		STEP E	26.8267	40.2400	2,146.13	4,649.96	55,799.53
		STEP F	28.1680	42.2520	2,253.44	4,882.45	58,589.44
		STEP G	29.5764	44.3646	2,366.11	5,126.57	61,518.91
		STEP H	31.0552	46.5828	2,484.41	5,382.90	64,594.81
7154	SR NATURAL RESOURCES WORKER						
		STEP A	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP B	23.2269	34.8403	1,858.15	4,026.00	48,311.95
		STEP C	24.3883	36.5824	1,951.06	4,227.30	50,727.66
		STEP D	25.6077	38.4115	2,048.61	4,438.66	53,264.01
		STEP E	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP F	28.2325	42.3487	2,258.60	4,893.63	58,723.60
		STEP G	29.6441	44.4661	2,371.52	5,138.31	61,659.72
		STEP H	31.1263	46.6894	2,490.10	5,395.22	64,742.70
7192	SR PARKS MAINTENANCE WORKER						
		STEP A	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP B	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP C	23.2269	34.8403	1,858.15	4,026.00	48,311.95
		STEP D	24.3885	36.5827	1,951.08	4,227.34	50,728.08
		STEP E	25.6077	38.4115	2,048.61	4,438.66	53,264.01
		STEP F	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP G	28.2324	42.3486	2,258.59	4,893.61	58,723.39
		STEP H	29.6442	44.4663	2,371.53	5,138.32	61,659.93
7129	SR REFUSE TRUCK DRIVER						
		STEP A	23.2266	34.8399	1,858.12	4,025.94	48,311.32
		STEP B	24.3879	36.5818	1,951.03	4,227.23	50,726.83
		STEP C	25.6074	38.4111	2,048.59	4,438.61	53,263.39
		STEP D	26.8877	40.3315	2,151.01	4,660.53	55,926.41
		STEP E	28.2321	42.3481	2,258.56	4,893.56	58,722.76
		STEP F	29.6436	44.4654	2,371.48	5,138.22	61,658.68
		STEP G	31.1259	46.6888	2,490.07	5,395.15	64,741.87
		STEP H	32.6822	49.0233	2,614.57	5,664.91	67,978.97

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SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
7187	SR STREET MAINTENANCE WORKER						
		STEP A	22.0348	33.0522	1,762.78	3,819.36	45,832.38
		STEP B	23.1365	34.7047	1,850.92	4,010.32	48,123.92
		STEP C	24.2933	36.4399	1,943.46	4,210.83	50,530.06
		STEP D	25.5080	38.2620	2,040.64	4,421.38	53,056.64
		STEP E	26.7834	40.1751	2,142.67	4,642.45	55,709.47
		STEP F	28.1226	42.1839	2,249.80	4,874.58	58,495.00
		STEP G	29.5287	44.2930	2,362.29	5,118.30	61,419.69
		STEP H	31.0049	46.5073	2,480.39	5,374.18	64,490.19
7201	SR TREE TRIMMER						
		STEP A	22.0706	33.1059	1,765.64	3,825.57	45,906.84
		STEP B	23.1741	34.7611	1,853.92	4,016.84	48,202.12
		STEP C	24.3327	36.4990	1,946.61	4,217.66	50,612.01
		STEP D	25.5495	38.3242	2,043.96	4,428.58	53,142.96
		STEP E	26.8270	40.2405	2,146.16	4,650.01	55,800.16
		STEP F	28.1683	42.2524	2,253.46	4,882.50	58,590.06
		STEP G	29.5766	44.3649	2,366.12	5,126.61	61,519.32
		STEP H	31.0556	46.5834	2,484.44	5,382.97	64,595.64
7203	SR WAREHOUSE WORKER						
		STEP A	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP B	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP C	23.2269	34.8403	1,858.15	4,026.00	48,311.95
		STEP D	24.3885	36.5827	1,951.08	4,227.34	50,728.08
		STEP E	25.6077	38.4115	2,048.61	4,438.66	53,264.01
		STEP F	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP G	28.2324	42.3486	2,258.59	4,893.61	58,723.39
		STEP H	29.6442	44.4663	2,371.53	5,138.32	61,659.93
7525	STREET MAINT WORKER I						
		STEP A	18.1835	27.2752	1,454.68	3,151.80	37,821.68
		STEP B	19.0927	28.6390	1,527.41	3,309.40	39,712.81
		STEP C	20.0474	30.0711	1,603.79	3,474.88	41,698.59
		STEP D	21.0496	31.5744	1,683.96	3,648.59	43,783.16
		STEP E	22.1020	33.1530	1,768.16	3,831.01	45,972.16
		STEP F	23.2074	34.8111	1,856.59	4,022.61	48,271.39
		STEP G	24.3677	36.5515	1,949.41	4,223.73	50,684.81
		STEP H	25.5860	38.3790	2,046.88	4,434.90	53,218.88

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SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
7530	STREET MAINT WORKER II						
		STEP A	20.0017	30.0025	1,600.13	3,466.96	41,603.53
		STEP B	21.0019	31.5028	1,680.15	3,640.32	43,683.95
		STEP C	22.0519	33.0778	1,764.15	3,822.32	45,867.95
		STEP D	23.1546	34.7319	1,852.36	4,013.46	48,161.56
		STEP E	24.3125	36.4687	1,945.00	4,214.16	50,570.00
		STEP F	25.5280	38.2920	2,042.24	4,424.85	53,098.24
		STEP G	26.8045	40.2067	2,144.36	4,646.11	55,753.36
		STEP H	28.1446	42.2169	2,251.56	4,878.39	58,540.76
7540	STREET SWEEPER OPERATOR						
		STEP A	21.0010	31.5015	1,680.08	3,640.17	43,682.08
		STEP B	22.0510	33.0765	1,764.08	3,822.17	45,866.08
		STEP C	23.1536	34.7304	1,852.28	4,013.29	48,159.48
		STEP D	24.3114	36.4671	1,944.91	4,213.97	50,567.71
		STEP E	25.5270	38.2905	2,042.16	4,424.68	53,096.16
		STEP F	26.8031	40.2046	2,144.24	4,645.87	55,750.44
		STEP G	28.1434	42.2151	2,251.47	4,878.18	58,538.27
		STEP H	29.5505	44.3257	2,364.04	5,122.08	61,465.04
8310	TREE TRIMMER						
		STEP A	20.0641	30.0961	1,605.12	3,477.77	41,733.32
		STEP B	21.0672	31.6008	1,685.37	3,651.64	43,819.77
		STEP C	22.1207	33.1810	1,769.65	3,834.25	46,011.05
		STEP D	23.2266	34.8399	1,858.12	4,025.94	48,311.32
		STEP E	24.3880	36.5820	1,951.04	4,227.25	50,727.04
		STEP F	25.6075	38.4112	2,048.60	4,438.63	53,263.60
		STEP G	26.8879	40.3318	2,151.03	4,660.56	55,926.83
		STEP H	28.2321	42.3481	2,258.56	4,893.56	58,722.76
8938	VEHICLE MAINT PARTS BUYER						
		STEP A	21.0641	31.5961	1,685.12	3,651.11	43,813.32
		STEP B	22.1173	33.1759	1,769.38	3,833.66	46,003.98
		STEP C	23.2234	34.8351	1,857.87	4,025.38	48,304.67
		STEP D	24.3845	36.5767	1,950.76	4,226.64	50,719.76
		STEP E	25.6039	38.4058	2,048.31	4,438.00	53,256.11
		STEP F	26.8838	40.3257	2,150.70	4,659.85	55,918.30
		STEP G	28.2280	42.3420	2,258.24	4,892.85	58,714.24
		STEP H	29.6394	44.4591	2,371.15	5,137.49	61,649.95

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Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
8940	VEHICLE MAINT SERVICEWRITER						
		STEP A	26.0606	39.0909	2,084.84	4,517.17	54,206.04
		STEP B	27.3636	41.0454	2,189.08	4,743.02	56,916.28
		STEP C	28.7319	43.0978	2,298.55	4,980.19	59,762.35
		STEP D	30.1682	45.2523	2,413.45	5,229.15	62,749.85
		STEP E	31.6768	47.5152	2,534.14	5,490.64	65,887.74
		STEP F	33.2607	49.8910	2,660.85	5,765.18	69,182.25
		STEP G	34.9237	52.3855	2,793.89	6,053.44	72,641.29
		STEP H	36.6698	55.0047	2,933.58	6,356.09	76,273.18
8951	WAREHOUSE WORKER I						
		STEP A	16.8361	25.2541	1,346.88	2,918.25	35,019.08
		STEP B	17.6779	26.5168	1,414.23	3,064.16	36,770.03
		STEP C	18.5620	27.8430	1,484.96	3,217.41	38,608.96
		STEP D	19.4900	29.2350	1,559.20	3,378.26	40,539.20
		STEP E	20.4644	30.6966	1,637.15	3,547.16	42,565.95
		STEP F	21.4877	32.2315	1,719.01	3,724.53	44,694.41
		STEP G	22.5621	33.8431	1,804.96	3,910.76	46,929.16
		STEP H	23.6901	35.5351	1,895.20	4,106.28	49,275.40
8952	WAREHOUSE WORKER II						
		STEP A	19.1087	28.6630	1,528.69	3,312.17	39,746.09
		STEP B	20.0642	30.0963	1,605.13	3,477.79	41,733.53
		STEP C	21.0673	31.6009	1,685.38	3,651.66	43,819.98
		STEP D	22.1207	33.1810	1,769.65	3,834.25	46,011.05
		STEP E	23.2267	34.8400	1,858.13	4,025.96	48,311.53
		STEP F	24.3881	36.5821	1,951.04	4,227.27	50,727.24
		STEP G	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP H	26.8880	40.3320	2,151.04	4,660.58	55,927.04
9200	WATER TRMT PLT OPR GD I 24HR						
		STEP A	14.3310	21.4965	1,605.07	3,477.65	41,731.87
		STEP B	15.0477	22.5715	1,685.34	3,651.57	43,818.90
		STEP C	15.7998	23.6997	1,769.57	3,834.08	46,009.01
		STEP D	16.5899	24.8848	1,858.06	4,025.81	48,309.78
		STEP E	17.4196	26.1294	1,951.00	4,227.15	50,725.87
		STEP F	18.2904	27.4356	2,048.52	4,438.47	53,261.64
		STEP G	19.2050	28.8075	2,150.96	4,660.41	55,924.96
		STEP H	20.1651	30.2476	2,258.49	4,893.39	58,720.77

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
9232	WATER TRMT PLT OPR GD I 8HR						
		STEP A	20.0635	30.0952	1,605.08	3,477.67	41,732.08
		STEP B	21.0667	31.6000	1,685.33	3,651.56	43,818.73
		STEP C	22.1201	33.1801	1,769.60	3,834.15	46,009.80
		STEP D	23.2261	34.8391	1,858.08	4,025.85	48,310.28
		STEP E	24.3875	36.5812	1,951.00	4,227.16	50,726.00
		STEP F	25.6068	38.4102	2,048.54	4,438.51	53,262.14
		STEP G	26.8871	40.3306	2,150.96	4,660.43	55,925.16
		STEP H	28.2316	42.3474	2,258.52	4,893.47	58,721.72
9210	WATER TRMT PLT OPR GD II 24HR						
		STEP A	15.8140	23.7210	1,771.16	3,837.53	46,050.36
		STEP B	16.6047	24.9070	1,859.72	4,029.40	48,352.88
		STEP C	17.4349	26.1523	1,952.70	4,230.86	50,770.42
		STEP D	18.3066	27.4599	2,050.33	4,442.40	53,308.81
		STEP E	19.2221	28.8331	2,152.87	4,664.56	55,974.75
		STEP F	20.1830	30.2745	2,260.49	4,897.74	58,772.89
		STEP G	21.1922	31.7883	2,373.52	5,142.64	61,711.68
		STEP H	22.2519	33.3778	2,492.21	5,399.79	64,797.53
9234	WATER TRMT PLT OPR GD II 8HR						
		STEP A	22.1395	33.2092	1,771.16	3,837.51	46,050.16
		STEP B	23.2466	34.8699	1,859.72	4,029.41	48,352.92
		STEP C	24.4090	36.6135	1,952.72	4,230.89	50,770.72
		STEP D	25.6294	38.4441	2,050.35	4,442.42	53,309.15
		STEP E	26.9110	40.3665	2,152.88	4,664.57	55,974.88
		STEP F	28.2569	42.3853	2,260.55	4,897.86	58,774.35
		STEP G	29.6698	44.5047	2,373.58	5,142.76	61,713.18
		STEP H	31.1530	46.7295	2,492.24	5,399.85	64,798.24
9230	WATER TRMT PLT OPR GD III 24HR						
		STEP A	20.1660	30.2490	2,258.59	4,893.61	58,723.39
		STEP B	21.1745	31.7617	2,371.54	5,138.34	61,660.14
		STEP C	22.2330	33.3495	2,490.09	5,395.20	64,742.49
		STEP D	23.3445	35.0167	2,614.58	5,664.93	67,979.18
		STEP E	24.5119	36.7678	2,745.33	5,948.22	71,378.65
		STEP F	25.7376	38.6064	2,882.61	6,245.65	74,947.89
		STEP G	27.0245	40.5367	3,026.74	6,557.94	78,695.34
		STEP H	28.3754	42.5631	3,178.04	6,885.76	82,629.16

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
9229	WATER TRMT PLT OPR GD III 8HR						
		STEP A	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP B	28.2324	42.3486	2,258.59	4,893.61	58,723.39
		STEP C	29.6441	44.4661	2,371.52	5,138.31	61,659.72
		STEP D	31.1263	46.6894	2,490.10	5,395.22	64,742.70
		STEP E	32.6826	49.0239	2,614.60	5,664.98	67,979.80
		STEP F	34.3170	51.4755	2,745.36	5,948.28	71,379.36
		STEP G	36.0326	54.0489	2,882.60	6,245.65	74,947.80
		STEP H	37.8344	56.7516	3,026.75	6,557.96	78,695.55
9000	WSTWTR TRMT PLT OPR GD I						
		STEP A	20.0636	30.0954	1,605.08	3,477.69	41,732.28
		STEP B	21.0668	31.6002	1,685.34	3,651.57	43,818.94
		STEP C	22.1203	33.1804	1,769.62	3,834.18	46,010.22
		STEP D	23.2263	34.8394	1,858.10	4,025.89	48,310.70
		STEP E	24.3876	36.5814	1,951.00	4,227.18	50,726.20
		STEP F	25.6069	38.4103	2,048.55	4,438.52	53,262.35
		STEP G	26.8872	40.3308	2,150.97	4,660.44	55,925.37
		STEP H	28.2316	42.3474	2,258.52	4,893.47	58,721.72
9010	WSTWTR TRMT PLT OPR GD II						
		STEP A	22.1397	33.2095	1,771.17	3,837.54	46,050.57
		STEP B	23.2466	34.8699	1,859.72	4,029.41	48,352.92
		STEP C	24.4090	36.6135	1,952.72	4,230.89	50,770.72
		STEP D	25.6293	38.4439	2,050.34	4,442.41	53,308.94
		STEP E	26.9109	40.3663	2,152.87	4,664.55	55,974.67
		STEP F	28.2563	42.3844	2,260.50	4,897.75	58,773.10
		STEP G	29.6694	44.5041	2,373.55	5,142.69	61,712.35
		STEP H	31.1527	46.7290	2,492.21	5,399.80	64,797.61
9025	WSTWTR TRMT PLT OPR GD III						
		STEP A	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP B	28.2324	42.3486	2,258.59	4,893.61	58,723.39
		STEP C	29.6441	44.4661	2,371.52	5,138.31	61,659.72
		STEP D	31.1263	46.6894	2,490.10	5,395.22	64,742.70
		STEP E	32.6826	49.0239	2,614.60	5,664.98	67,979.80
		STEP F	34.3163	51.4744	2,745.30	5,948.15	71,377.90
		STEP G	36.0328	54.0492	2,882.62	6,245.68	74,948.22
		STEP H	37.8342	56.7513	3,026.73	6,557.92	78,695.13

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

LO39 LOCAL 39

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
9030	WSTWTR TRMT PLT OPR GD IV						
		STEP A	32.3733	48.5599	2,589.86	5,611.37	67,336.46
		STEP B	33.9919	50.9878	2,719.35	5,891.92	70,703.15
		STEP C	35.6914	53.5371	2,855.31	6,186.50	74,238.11
		STEP D	37.4760	56.2140	2,998.08	6,495.84	77,950.08
		STEP E	39.3499	59.0248	3,147.99	6,820.64	81,847.79
		STEP F	41.3173	61.9759	3,305.38	7,161.66	85,939.98
		STEP G	43.3833	65.0749	3,470.66	7,519.77	90,237.26
		STEP H	45.5524	68.3286	3,644.19	7,895.74	94,748.99
9020	WSTWTR TRMT PLT OPR GDIII 24HR						
		STEP A	20.6462	30.9693	2,312.37	5,010.14	60,121.73
		STEP B	21.6786	32.5179	2,428.00	5,260.67	63,128.08
		STEP C	22.7623	34.1434	2,549.37	5,523.65	66,283.81
		STEP D	23.9007	35.8510	2,676.87	5,799.90	69,598.83
		STEP E	25.0956	37.6434	2,810.70	6,089.86	73,078.38
		STEP F	26.3505	39.5257	2,951.25	6,394.38	76,732.65
		STEP G	27.6679	41.5018	3,098.80	6,714.07	80,568.92
		STEP H	29.0512	43.5768	3,253.73	7,049.75	84,597.09

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B400	ACCOUNTANT I	STEP A	25.4192	38.1288	2,033.53	4,405.99	52,871.93
		STEP B	26.0468	39.0702	2,083.74	4,514.77	54,177.34
		STEP C	26.6900	40.0350	2,135.20	4,626.26	55,515.20
		STEP D	27.3491	41.0236	2,187.92	4,740.51	56,886.12
		STEP E	28.0245	42.0367	2,241.96	4,857.58	58,290.96
		STEP F	28.7166	43.0749	2,297.32	4,977.54	59,730.52
		STEP G	29.4258	44.1387	2,354.06	5,100.47	61,205.66
		STEP H	30.1525	45.2287	2,412.20	5,226.43	62,717.20
		STEP I	30.8971	46.3456	2,471.76	5,355.49	64,265.96
		STEP J	31.6601	47.4901	2,532.80	5,487.75	65,853.00
		STEP K	32.4420	48.6630	2,595.36	5,623.28	67,479.36
		STEP L	33.2431	49.8646	2,659.44	5,762.13	69,145.64
		STEP M	34.0641	51.0961	2,725.12	5,904.44	70,853.32
		STEP N	34.9053	52.3579	2,792.42	6,050.25	72,603.02
		STEP O	35.7673	53.6509	2,861.38	6,199.66	74,395.98
B401	ACCOUNTANT II	STEP A	27.9730	41.9595	2,237.84	4,848.65	58,183.84
		STEP B	28.6634	42.9951	2,293.07	4,968.32	59,619.87
		STEP C	29.3713	44.0569	2,349.70	5,091.02	61,092.30
		STEP D	30.0966	45.1449	2,407.72	5,216.74	62,600.92
		STEP E	30.8399	46.2598	2,467.19	5,345.58	64,146.99
		STEP F	31.6015	47.4022	2,528.12	5,477.59	65,731.12
		STEP G	32.3819	48.5728	2,590.55	5,612.86	67,354.35
		STEP H	33.1816	49.7724	2,654.52	5,751.47	69,017.72
		STEP I	34.0010	51.0015	2,720.08	5,893.50	70,722.08
		STEP J	34.8407	52.2610	2,787.25	6,039.05	72,468.65
		STEP K	35.7011	53.5516	2,856.08	6,188.19	74,258.28
		STEP L	36.5827	54.8740	2,926.61	6,341.00	76,092.01
		STEP M	37.4862	56.2293	2,998.89	6,497.60	77,971.29
		STEP N	38.4119	57.6178	3,072.95	6,658.06	79,896.75
		STEP O	39.3605	59.0407	3,148.84	6,822.48	81,869.84
B402	ADMIN TECHNICIAN	STEP A	20.7915	31.1872	1,663.32	3,603.86	43,246.32
		STEP B	21.3050	31.9575	1,704.40	3,692.86	44,314.40
		STEP C	21.8311	32.7466	1,746.48	3,784.05	45,408.68
		STEP D	22.3702	33.5553	1,789.61	3,877.50	46,530.01
		STEP E	22.9227	34.3840	1,833.81	3,973.26	47,679.21
		STEP F	23.4888	35.2332	1,879.10	4,071.39	48,856.70
		STEP G	24.0688	36.1032	1,925.50	4,171.92	50,063.10
		STEP H	24.6632	36.9948	1,973.05	4,274.95	51,299.45
		STEP I	25.2723	37.9084	2,021.78	4,380.53	52,566.38
		STEP J	25.8964	38.8446	2,071.71	4,488.70	53,864.51
		STEP K	26.5359	39.8038	2,122.87	4,599.55	55,194.67
		STEP L	27.1912	40.7868	2,175.29	4,713.14	56,557.69
		STEP M	27.8627	41.7940	2,229.01	4,829.53	57,954.41
		STEP N	28.5508	42.8262	2,284.06	4,948.80	59,385.66
		STEP O	29.2559	43.8838	2,340.47	5,071.02	60,852.27

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B404	ASSOC ENGINEER	STEP A	33.9437	50.9155	2,715.49	5,883.57	70,602.89
		STEP B	34.7819	52.1728	2,782.55	6,028.86	72,346.35
		STEP C	35.6408	53.4612	2,851.26	6,177.73	74,132.86
		STEP D	36.5210	54.7815	2,921.68	6,330.30	75,963.68
		STEP E	37.4229	56.1343	2,993.83	6,486.63	77,839.63
		STEP F	38.3471	57.5206	3,067.76	6,646.83	79,761.96
		STEP G	39.2941	58.9411	3,143.52	6,810.97	81,731.72
		STEP H	40.2644	60.3966	3,221.15	6,979.16	83,749.95
		STEP I	41.2588	61.8882	3,300.70	7,151.52	85,818.30
		STEP J	42.2777	63.4165	3,382.21	7,328.13	87,937.61
		STEP K	43.3218	64.9827	3,465.74	7,509.11	90,109.34
		STEP L	44.3916	66.5874	3,551.32	7,694.54	92,334.52
		STEP M	45.4879	68.2318	3,639.03	7,884.56	94,614.83
		STEP N	46.6112	69.9168	3,728.89	8,079.27	96,951.29
		STEP O	47.7623	71.6434	3,820.98	8,278.79	99,345.58
B405	ASSOC PLANNER	STEP A	30.3640	45.5460	2,429.12	5,263.09	63,157.12
		STEP B	31.1135	46.6702	2,489.08	5,393.00	64,716.08
		STEP C	31.8819	47.8228	2,550.55	5,526.19	66,314.35
		STEP D	32.6692	49.0038	2,613.53	5,662.66	67,951.93
		STEP E	33.4760	50.2140	2,678.08	5,802.50	69,630.08
		STEP F	34.3027	51.4540	2,744.21	5,945.80	71,349.61
		STEP G	35.1498	52.7247	2,811.98	6,092.63	73,111.58
		STEP H	36.0178	54.0267	2,881.42	6,243.08	74,917.02
		STEP I	36.9073	55.3609	2,952.58	6,397.26	76,767.18
		STEP J	37.8187	56.7280	3,025.49	6,555.24	78,662.89
		STEP K	38.7527	58.1290	3,100.21	6,717.13	80,605.61
		STEP L	39.7097	59.5645	3,176.77	6,883.01	82,596.17
		STEP M	40.6904	61.0356	3,255.23	7,053.00	84,636.03
		STEP N	41.6952	62.5428	3,335.61	7,227.16	86,726.01
		STEP O	42.7249	64.0873	3,417.99	7,405.64	88,867.79
B403	ASST CHILD CARE SITE COORD	STEP A	16.4385	24.6577	1,315.08	2,849.34	34,192.08
		STEP B	16.8444	25.2666	1,347.55	2,919.69	35,036.35
		STEP C	17.2603	25.8904	1,380.82	2,991.78	35,901.42
		STEP D	17.6866	26.5299	1,414.92	3,065.67	36,788.12
		STEP E	18.1234	27.1851	1,449.87	3,141.38	37,696.67
		STEP F	18.5709	27.8563	1,485.67	3,218.95	38,627.47
		STEP G	19.0296	28.5444	1,522.36	3,298.46	39,581.56
		STEP H	19.4995	29.2492	1,559.96	3,379.91	40,558.96
		STEP I	19.9810	29.9715	1,598.48	3,463.37	41,560.48
		STEP J	20.4745	30.7117	1,637.96	3,548.91	42,586.96
		STEP K	20.9801	31.4701	1,678.40	3,636.55	43,638.60
		STEP L	21.4982	32.2473	1,719.85	3,726.35	44,716.25
		STEP M	22.0291	33.0436	1,762.32	3,818.37	45,820.52
		STEP N	22.5731	33.8596	1,805.84	3,912.67	46,952.04
		STEP O	23.1306	34.6959	1,850.44	4,009.30	48,111.64

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B406	ASST ENGINEER	STEP A	30.7531	46.1296	2,460.24	5,330.53	63,966.44
		STEP B	31.5123	47.2684	2,520.98	5,462.13	65,545.58
		STEP C	32.2905	48.4357	2,583.24	5,597.02	67,164.24
		STEP D	33.0879	49.6318	2,647.03	5,735.23	68,822.83
		STEP E	33.9050	50.8575	2,712.40	5,876.86	70,522.40
		STEP F	34.7423	52.1134	2,779.38	6,022.00	72,263.98
		STEP G	35.6003	53.4004	2,848.02	6,170.71	74,048.62
		STEP H	36.4795	54.7192	2,918.36	6,323.11	75,877.36
		STEP I	37.3803	56.0704	2,990.42	6,479.25	77,751.02
		STEP J	38.3035	57.4552	3,064.28	6,639.27	79,671.28
		STEP K	39.2494	58.8741	3,139.95	6,803.22	81,638.75
		STEP L	40.2187	60.3280	3,217.49	6,971.24	83,654.89
		STEP M	41.2119	61.8178	3,296.95	7,143.39	85,720.75
		STEP N	42.2296	63.3444	3,378.36	7,319.79	87,837.56
		STEP O	43.2725	64.9087	3,461.80	7,500.56	90,006.80
B407	ASST PLANNER	STEP A	26.4024	39.6036	2,112.19	4,576.41	54,916.99
		STEP B	27.0543	40.5814	2,164.34	4,689.41	56,272.94
		STEP C	27.7224	41.5836	2,217.79	4,805.21	57,662.59
		STEP D	28.4070	42.6105	2,272.56	4,923.88	59,086.56
		STEP E	29.1085	43.6627	2,328.68	5,045.47	60,545.68
		STEP F	29.8274	44.7411	2,386.19	5,170.08	62,040.99
		STEP G	30.5640	45.8460	2,445.12	5,297.76	63,573.12
		STEP H	31.3188	46.9782	2,505.50	5,428.59	65,143.10
		STEP I	32.0922	48.1383	2,567.37	5,562.64	66,751.77
		STEP J	32.8847	49.3270	2,630.77	5,700.01	68,400.17
		STEP K	33.6968	50.5452	2,695.74	5,840.77	70,089.34
		STEP L	34.5290	51.7935	2,762.32	5,985.02	71,820.32
		STEP M	35.3817	53.0725	2,830.53	6,132.82	73,593.93
		STEP N	36.2555	54.3832	2,900.44	6,284.28	75,411.44
		STEP O	37.1508	55.7262	2,972.06	6,439.47	77,273.66
B408	BLDG INSPECTOR I	STEP A	24.0170	36.0255	1,921.36	4,162.94	49,955.36
		STEP B	24.6099	36.9148	1,968.79	4,265.71	51,188.59
		STEP C	25.2177	37.8265	2,017.41	4,371.06	52,452.81
		STEP D	25.8404	38.7606	2,067.23	4,479.00	53,748.03
		STEP E	26.4786	39.7179	2,118.28	4,589.62	55,075.48
		STEP F	27.1325	40.6987	2,170.60	4,702.96	56,435.60
		STEP G	27.8025	41.7037	2,224.20	4,819.10	57,829.20
		STEP H	28.4891	42.7336	2,279.12	4,938.11	59,257.32
		STEP I	29.1926	43.7889	2,335.40	5,060.05	60,720.60
		STEP J	29.9136	44.8704	2,393.08	5,185.02	62,220.28
		STEP K	30.6523	45.9784	2,452.18	5,313.06	63,756.78
		STEP L	31.4093	47.1139	2,512.74	5,444.27	65,331.34
		STEP M	32.1849	48.2773	2,574.79	5,578.71	66,944.59
		STEP N	32.9798	49.4697	2,638.38	5,716.49	68,597.98
		STEP O	33.7942	50.6913	2,703.53	5,857.66	70,291.93

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B409	BLDG INSPECTOR II	STEP A	26.4186	39.6279	2,113.48	4,579.22	54,950.68
		STEP B	27.0709	40.6063	2,165.67	4,692.28	56,307.47
		STEP C	27.7394	41.6091	2,219.15	4,808.16	57,697.95
		STEP D	28.4244	42.6366	2,273.95	4,926.89	59,122.75
		STEP E	29.1264	43.6896	2,330.11	5,048.57	60,582.91
		STEP F	29.8457	44.7685	2,387.65	5,173.25	62,079.05
		STEP G	30.5827	45.8740	2,446.61	5,301.00	63,612.01
		STEP H	31.3380	47.0070	2,507.04	5,431.92	65,183.04
		STEP I	32.1119	48.1678	2,568.95	5,566.06	66,792.75
		STEP J	32.9049	49.3573	2,632.39	5,703.51	68,442.19
		STEP K	33.7175	50.5762	2,697.40	5,844.36	70,132.40
		STEP L	34.5502	51.8253	2,764.01	5,988.70	71,864.41
		STEP M	35.4034	53.1051	2,832.27	6,136.58	73,639.07
		STEP N	36.2777	54.4165	2,902.21	6,288.13	75,457.61
		STEP O	37.1736	55.7604	2,973.88	6,443.42	77,321.08
B410	BLDG MAINT WORKER I	STEP A	19.8795	29.8192	1,590.36	3,445.78	41,349.36
		STEP B	20.3703	30.5554	1,629.62	3,530.85	42,370.22
		STEP C	20.8734	31.3101	1,669.87	3,618.05	43,416.67
		STEP D	21.3888	32.0832	1,711.10	3,707.39	44,488.70
		STEP E	21.9170	32.8755	1,753.36	3,798.94	45,587.36
		STEP F	22.4583	33.6874	1,796.66	3,892.77	46,713.26
		STEP G	23.0129	34.5193	1,841.03	3,988.90	47,866.83
		STEP H	23.5812	35.3718	1,886.49	4,087.40	49,048.89
		STEP I	24.1636	36.2454	1,933.08	4,188.35	50,260.28
		STEP J	24.7603	37.1404	1,980.82	4,291.78	51,501.42
		STEP K	25.3718	38.0577	2,029.74	4,397.77	52,773.34
		STEP L	25.9983	38.9974	2,079.86	4,506.37	54,076.46
		STEP M	26.6404	39.9606	2,131.23	4,617.66	55,412.03
		STEP N	27.2983	40.9474	2,183.86	4,731.70	56,780.46
		STEP O	27.9724	41.9586	2,237.79	4,848.54	58,182.59
B411	BLDG MAINT WORKER II	STEP A	21.8667	32.8000	1,749.33	3,790.22	45,482.73
		STEP B	22.4065	33.6097	1,792.52	3,883.79	46,605.52
		STEP C	22.9598	34.4397	1,836.78	3,979.69	47,756.38
		STEP D	23.5268	35.2902	1,882.14	4,077.97	48,935.74
		STEP E	24.1078	36.1617	1,928.62	4,178.68	50,144.22
		STEP F	24.7032	37.0548	1,976.25	4,281.88	51,382.65
		STEP G	25.3133	37.9699	2,025.06	4,387.63	52,651.66
		STEP H	25.9384	38.9076	2,075.07	4,495.98	53,951.87
		STEP I	26.5789	39.8683	2,126.31	4,607.00	55,284.11
		STEP J	27.2353	40.8529	2,178.82	4,720.78	56,649.42
		STEP K	27.9079	41.8618	2,232.63	4,837.36	58,048.43
		STEP L	28.5971	42.8956	2,287.76	4,956.83	59,481.96
		STEP M	29.3033	43.9549	2,344.26	5,079.23	60,950.86
		STEP N	30.0270	45.0405	2,402.16	5,204.68	62,456.16
		STEP O	30.7685	46.1527	2,461.48	5,333.20	63,998.48

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B412	BLDG PLANS EXAMINER I	STEP A	24.2958	36.4437	1,943.66	4,211.27	50,535.26
		STEP B	24.8956	37.3434	1,991.64	4,315.23	51,782.84
		STEP C	25.5104	38.2656	2,040.83	4,421.80	53,061.63
		STEP D	26.1404	39.2106	2,091.23	4,531.00	54,372.03
		STEP E	26.7859	40.1788	2,142.87	4,642.88	55,714.67
		STEP F	27.4474	41.1711	2,195.79	4,757.54	57,090.59
		STEP G	28.1252	42.1878	2,250.01	4,875.03	58,500.41
		STEP H	28.8198	43.2297	2,305.58	4,995.43	59,945.18
		STEP I	29.5315	44.2972	2,362.52	5,118.79	61,425.52
		STEP J	30.2608	45.3912	2,420.86	5,245.20	62,942.46
		STEP K	31.0081	46.5121	2,480.64	5,374.73	64,496.84
		STEP L	31.7739	47.6608	2,541.91	5,507.47	66,089.71
		STEP M	32.5586	48.8379	2,604.68	5,643.49	67,721.88
		STEP N	33.3626	50.0439	2,669.00	5,782.85	69,394.20
		STEP O	34.1865	51.2797	2,734.92	5,925.66	71,107.92
B413	BLDG PLANS EXAMINER II	STEP A	26.7254	40.0881	2,138.03	4,632.40	55,588.83
		STEP B	27.3852	41.0778	2,190.81	4,746.76	56,961.21
		STEP C	28.0615	42.0922	2,244.92	4,863.99	58,367.92
		STEP D	28.7545	43.1317	2,300.36	4,984.11	59,809.36
		STEP E	29.4646	44.1969	2,357.16	5,107.19	61,286.36
		STEP F	30.1922	45.2883	2,415.37	5,233.31	62,799.77
		STEP G	30.9378	46.4067	2,475.02	5,362.55	64,350.62
		STEP H	31.7018	47.5527	2,536.14	5,494.97	65,939.74
		STEP I	32.4847	48.7270	2,598.77	5,630.68	67,568.17
		STEP J	33.2869	49.9303	2,662.95	5,769.72	69,236.75
		STEP K	34.1090	51.1635	2,728.72	5,912.22	70,946.72
		STEP L	34.9513	52.4269	2,796.10	6,058.22	72,698.70
		STEP M	35.8145	53.7217	2,865.16	6,207.84	74,494.16
		STEP N	36.6989	55.0483	2,935.91	6,361.14	76,333.71
		STEP O	37.6052	56.4078	3,008.41	6,518.23	78,218.81
B414	BUSINESS SYSTEMS ANALYST I	STEP A	27.3634	41.0451	2,189.07	4,742.98	56,915.87
		STEP B	28.0390	42.0585	2,243.12	4,860.09	58,321.12
		STEP C	28.7314	43.0971	2,298.51	4,980.10	59,761.31
		STEP D	29.4410	44.1615	2,355.28	5,103.10	61,237.28
		STEP E	30.1680	45.2520	2,413.44	5,229.12	62,749.44
		STEP F	30.9130	46.3695	2,473.04	5,358.25	64,299.04
		STEP G	31.6764	47.5146	2,534.11	5,490.57	65,886.91
		STEP H	32.4587	48.6880	2,596.69	5,626.17	67,514.09
		STEP I	33.2603	49.8904	2,660.82	5,765.11	69,181.42
		STEP J	34.0817	51.1225	2,726.53	5,907.49	70,889.93
		STEP K	34.9233	52.3849	2,793.86	6,053.37	72,640.46
		STEP L	35.7858	53.6787	2,862.86	6,202.87	74,434.46
		STEP M	36.6695	55.0042	2,933.56	6,356.04	76,272.56
		STEP N	37.5751	56.3626	3,006.00	6,513.01	78,156.20
		STEP O	38.5030	57.7545	3,080.24	6,673.85	80,086.24

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B415	BUSINESS SYSTEMS ANALYST II	STEP A	30.0999	45.1498	2,407.99	5,217.31	62,607.79
		STEP B	30.8429	46.2643	2,467.43	5,346.10	64,153.23
		STEP C	31.6046	47.4069	2,528.36	5,478.13	65,737.56
		STEP D	32.3851	48.5776	2,590.80	5,613.41	67,361.00
		STEP E	33.1848	49.7772	2,654.78	5,752.03	69,024.38
		STEP F	34.0043	51.0064	2,720.34	5,894.07	70,728.94
		STEP G	34.8441	52.2661	2,787.52	6,039.64	72,475.72
		STEP H	35.7046	53.5569	2,856.36	6,188.79	74,265.56
		STEP I	36.5863	54.8794	2,926.90	6,341.62	76,099.50
		STEP J	37.4898	56.2347	2,999.18	6,498.23	77,978.78
		STEP K	38.4156	57.6234	3,073.24	6,658.70	79,904.44
		STEP L	39.3643	59.0464	3,149.14	6,823.14	81,877.74
		STEP M	40.3365	60.5047	3,226.92	6,991.66	83,899.92
		STEP N	41.3326	61.9989	3,306.60	7,164.31	85,971.80
		STEP O	42.3533	63.5299	3,388.26	7,341.23	88,094.86
B416	BUYER I	STEP A	21.1152	31.6728	1,689.21	3,659.96	43,919.61
		STEP B	21.6367	32.4550	1,730.93	3,750.36	45,004.33
		STEP C	22.1710	33.2565	1,773.68	3,842.97	46,115.68
		STEP D	22.7185	34.0777	1,817.48	3,937.87	47,254.48
		STEP E	23.2796	34.9194	1,862.36	4,035.13	48,421.56
		STEP F	23.8545	35.7817	1,908.36	4,134.78	49,617.36
		STEP G	24.4436	36.6654	1,955.48	4,236.89	50,842.68
		STEP H	25.0472	37.5708	2,003.77	4,341.51	52,098.17
		STEP I	25.6658	38.4987	2,053.26	4,448.73	53,384.86
		STEP J	26.2996	39.4494	2,103.96	4,558.59	54,703.16
		STEP K	26.9491	40.4236	2,155.92	4,671.17	56,054.12
		STEP L	27.6146	41.4219	2,209.16	4,786.53	57,438.36
		STEP M	28.2966	42.4449	2,263.72	4,904.74	58,856.92
		STEP N	28.9953	43.4929	2,319.62	5,025.85	60,310.22
		STEP O	29.7114	44.5671	2,376.91	5,149.97	61,799.71
B417	BUYER II	STEP A	23.2267	34.8400	1,858.13	4,025.96	48,311.53
		STEP B	23.8003	35.7004	1,904.02	4,125.38	49,504.62
		STEP C	24.3880	36.5820	1,951.04	4,227.25	50,727.04
		STEP D	24.9903	37.4854	1,999.22	4,331.65	51,979.82
		STEP E	25.6074	38.4111	2,048.59	4,438.61	53,263.39
		STEP F	26.2398	39.3597	2,099.18	4,548.23	54,578.78
		STEP G	26.8878	40.3317	2,151.02	4,660.55	55,926.62
		STEP H	27.5518	41.3277	2,204.14	4,775.64	57,307.74
		STEP I	28.2322	42.3483	2,258.57	4,893.58	58,722.97
		STEP J	28.9294	43.3941	2,314.35	5,014.42	60,173.15
		STEP K	29.6439	44.4658	2,371.51	5,138.27	61,659.31
		STEP L	30.3759	45.5638	2,430.07	5,265.15	63,181.87
		STEP M	31.1261	46.6891	2,490.08	5,395.19	64,742.28
		STEP N	31.8947	47.8420	2,551.57	5,528.41	66,340.97
		STEP O	32.6824	49.0236	2,614.59	5,664.94	67,979.39

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B418	CHILD CARE SITE COORDINATOR						
		STEP A	19.6833	29.5249	1,574.66	3,411.77	40,941.26
		STEP B	20.1692	30.2538	1,613.53	3,495.99	41,951.93
		STEP C	20.6673	31.0009	1,653.38	3,582.33	42,987.98
		STEP D	21.1777	31.7665	1,694.21	3,670.80	44,049.61
		STEP E	21.7007	32.5510	1,736.05	3,761.45	45,137.45
		STEP F	22.2366	33.3549	1,778.92	3,854.34	46,252.12
		STEP G	22.7858	34.1787	1,822.86	3,949.53	47,394.46
		STEP H	23.3485	35.0227	1,867.88	4,047.07	48,564.88
		STEP I	23.9251	35.8876	1,914.00	4,147.01	49,764.20
		STEP J	24.5159	36.7738	1,961.27	4,249.42	50,993.07
		STEP K	25.1213	37.6819	2,009.70	4,354.35	52,252.30
		STEP L	25.7417	38.6125	2,059.33	4,461.89	53,542.73
		STEP M	26.3774	39.5661	2,110.19	4,572.08	54,864.99
		STEP N	27.0288	40.5432	2,162.30	4,684.99	56,219.90
		STEP O	27.6963	41.5444	2,215.70	4,800.69	57,608.30
B419	CITY CLERK TECHNICIAN I						
		STEP A	20.2827	30.4240	1,622.61	3,515.66	42,188.01
		STEP B	20.7834	31.1751	1,662.67	3,602.45	43,229.47
		STEP C	21.2967	31.9450	1,703.73	3,691.42	44,297.13
		STEP D	21.8226	32.7339	1,745.80	3,782.58	45,391.00
		STEP E	22.3615	33.5422	1,788.92	3,875.99	46,511.92
		STEP F	22.9138	34.3707	1,833.10	3,971.72	47,660.70
		STEP G	23.4796	35.2194	1,878.36	4,069.79	48,837.56
		STEP H	24.0595	36.0892	1,924.76	4,170.31	50,043.76
		STEP I	24.6536	36.9804	1,972.28	4,273.29	51,279.48
		STEP J	25.2625	37.8937	2,021.00	4,378.83	52,546.00
		STEP K	25.8863	38.8294	2,070.90	4,486.95	53,843.50
		STEP L	26.5256	39.7884	2,122.04	4,597.77	55,173.24
		STEP M	27.1806	40.7709	2,174.44	4,711.30	56,535.64
		STEP N	27.8519	41.7778	2,228.15	4,827.66	57,931.95
		STEP O	28.5397	42.8095	2,283.17	4,946.88	59,362.57
B420	CITY CLERK TECHNICIAN II						
		STEP A	22.3118	33.4677	1,784.94	3,867.37	46,408.54
		STEP B	22.8626	34.2939	1,829.00	3,962.85	47,554.20
		STEP C	23.4272	35.1408	1,874.17	4,060.71	48,728.57
		STEP D	24.0057	36.0085	1,920.45	4,160.98	49,931.85
		STEP E	24.5986	36.8979	1,967.88	4,263.75	51,165.08
		STEP F	25.2060	37.8090	2,016.48	4,369.04	52,428.48
		STEP G	25.8285	38.7427	2,066.28	4,476.94	53,723.28
		STEP H	26.4664	39.6996	2,117.31	4,587.50	55,050.11
		STEP I	27.1200	40.6800	2,169.60	4,700.80	56,409.60
		STEP J	27.7897	41.6845	2,223.17	4,816.88	57,802.57
		STEP K	28.4760	42.7140	2,278.08	4,935.84	59,230.08
		STEP L	29.1792	43.7688	2,334.33	5,057.72	60,692.73
		STEP M	29.8998	44.8497	2,391.98	5,182.63	62,191.58
		STEP N	30.6382	45.9573	2,451.05	5,310.62	63,727.45
		STEP O	31.3948	47.0922	2,511.58	5,441.76	65,301.18

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B421	CODE ENFORCEMENT INSPECTOR	STEP A	23.8335	35.7502	1,906.68	4,131.14	49,573.68
		STEP B	24.4219	36.6328	1,953.75	4,233.12	50,797.55
		STEP C	25.0250	37.5375	2,002.00	4,337.66	52,052.00
		STEP D	25.6430	38.4645	2,051.44	4,444.78	53,337.44
		STEP E	26.2763	39.4144	2,102.10	4,554.55	54,654.70
		STEP F	26.9252	40.3878	2,154.01	4,667.03	56,004.41
		STEP G	27.5901	41.3851	2,207.20	4,782.28	57,387.40
		STEP H	28.2714	42.4071	2,261.71	4,900.37	58,804.51
		STEP I	28.9696	43.4544	2,317.56	5,021.39	60,256.76
		STEP J	29.6850	44.5275	2,374.80	5,145.40	61,744.80
		STEP K	30.4181	45.6271	2,433.44	5,272.47	63,269.64
		STEP L	31.1693	46.7539	2,493.54	5,402.67	64,832.14
		STEP M	31.9390	47.9085	2,555.12	5,536.09	66,433.12
		STEP N	32.7278	49.0917	2,618.22	5,672.81	68,073.82
		STEP O	33.5360	50.3040	2,682.88	5,812.90	69,754.88
B422	COMMUNITY RELATIONS ANALYST	STEP A	25.5570	38.3355	2,044.56	4,429.88	53,158.56
		STEP B	26.1882	39.2823	2,095.05	4,539.28	54,471.45
		STEP C	26.8349	40.2523	2,146.79	4,651.38	55,816.59
		STEP D	27.4976	41.2464	2,199.80	4,766.25	57,195.00
		STEP E	28.1767	42.2650	2,254.13	4,883.96	58,607.53
		STEP F	28.8725	43.3087	2,309.80	5,004.56	60,054.80
		STEP G	29.5855	44.3782	2,366.84	5,128.15	61,537.84
		STEP H	30.3162	45.4743	2,425.29	5,254.80	63,057.69
		STEP I	31.0648	46.5972	2,485.18	5,384.56	64,614.78
		STEP J	31.8320	47.7480	2,546.56	5,517.54	66,210.56
		STEP K	32.6181	48.9271	2,609.44	5,653.80	67,845.64
		STEP L	33.4236	50.1354	2,673.88	5,793.42	69,521.08
		STEP M	34.2490	51.3735	2,739.92	5,936.49	71,237.92
		STEP N	35.0948	52.6422	2,807.58	6,083.09	72,997.18
		STEP O	35.9615	53.9422	2,876.92	6,233.32	74,799.92
B423	CONSTRUCTION INSPECTION SUPV	STEP A	31.2610	46.8915	2,500.88	5,418.57	65,022.88
		STEP B	32.0329	48.0493	2,562.63	5,552.36	66,628.43
		STEP C	32.8240	49.2360	2,625.92	5,689.49	68,273.92
		STEP D	33.6346	50.4519	2,690.76	5,830.00	69,959.96
		STEP E	34.4652	51.6978	2,757.21	5,973.96	71,687.61
		STEP F	35.3163	52.9744	2,825.30	6,121.49	73,457.90
		STEP G	36.1885	54.2827	2,895.08	6,272.67	75,272.08
		STEP H	37.0821	55.6231	2,966.56	6,427.56	77,130.76
		STEP I	37.9979	56.9968	3,039.83	6,586.30	79,035.63
		STEP J	38.9363	58.4044	3,114.90	6,748.95	80,987.50
		STEP K	39.8978	59.8467	3,191.82	6,915.61	82,987.42
		STEP L	40.8831	61.3246	3,270.64	7,086.40	85,036.84
		STEP M	41.8927	62.8390	3,351.41	7,261.40	87,136.81
		STEP N	42.9273	64.3909	3,434.18	7,440.73	89,288.78
		STEP O	43.9874	65.9811	3,518.99	7,624.48	91,493.79

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B424	CONSTRUCTION INSPECTOR I						
		STEP A	22.4649	33.6973	1,797.19	3,893.91	46,726.99
		STEP B	23.0197	34.5295	1,841.57	3,990.08	47,880.97
		STEP C	23.5882	35.3823	1,887.05	4,088.62	49,063.45
		STEP D	24.1707	36.2560	1,933.65	4,189.58	50,275.05
		STEP E	24.7676	37.1514	1,981.40	4,293.05	51,516.60
		STEP F	25.3792	38.0688	2,030.33	4,399.06	52,788.73
		STEP G	26.0060	39.0090	2,080.48	4,507.70	54,092.48
		STEP H	26.6482	39.9723	2,131.85	4,619.02	55,428.25
		STEP I	27.3063	40.9594	2,184.50	4,733.09	56,797.10
		STEP J	27.9806	41.9709	2,238.44	4,849.97	58,199.64
		STEP K	28.6716	43.0074	2,293.72	4,969.74	59,636.92
		STEP L	29.3797	44.0695	2,350.37	5,092.48	61,109.77
		STEP M	30.1052	45.1578	2,408.41	5,218.23	62,618.81
		STEP N	30.8487	46.2730	2,467.89	5,347.10	64,165.29
		STEP O	31.6105	47.4157	2,528.84	5,479.15	65,749.84
B425	CONSTRUCTION INSPECTOR II						
		STEP A	24.7122	37.0683	1,976.97	4,283.44	51,401.37
		STEP B	25.3224	37.9836	2,025.79	4,389.21	52,670.59
		STEP C	25.9478	38.9217	2,075.82	4,497.61	53,971.42
		STEP D	26.5885	39.8827	2,127.08	4,608.67	55,304.08
		STEP E	27.2452	40.8678	2,179.61	4,722.50	56,670.01
		STEP F	27.9180	41.8770	2,233.44	4,839.12	58,069.44
		STEP G	28.6074	42.9111	2,288.59	4,958.61	59,503.39
		STEP H	29.3139	43.9708	2,345.11	5,081.07	60,972.91
		STEP I	30.0378	45.0567	2,403.02	5,206.55	62,478.62
		STEP J	30.7796	46.1694	2,462.36	5,335.13	64,021.56
		STEP K	31.5397	47.3095	2,523.17	5,466.88	65,602.57
		STEP L	32.3186	48.4779	2,585.48	5,601.89	67,222.68
		STEP M	33.1167	49.6750	2,649.33	5,740.22	68,882.73
		STEP N	33.9346	50.9019	2,714.76	5,882.00	70,583.96
		STEP O	34.7726	52.1589	2,781.80	6,027.25	72,327.00
B426	COURIER						
		STEP A	13.0156	19.5234	1,041.24	2,256.03	27,072.44
		STEP B	13.3371	20.0056	1,066.96	2,311.76	27,741.16
		STEP C	13.6664	20.4996	1,093.31	2,368.84	28,426.11
		STEP D	14.0039	21.0058	1,120.31	2,427.34	29,128.11
		STEP E	14.3498	21.5247	1,147.98	2,487.29	29,847.58
		STEP F	14.7041	22.0561	1,176.32	2,548.71	30,584.52
		STEP G	15.0673	22.6009	1,205.38	2,611.66	31,339.98
		STEP H	15.4394	23.1591	1,235.15	2,676.16	32,113.95
		STEP I	15.8206	23.7309	1,265.64	2,742.23	32,906.84
		STEP J	16.2113	24.3169	1,296.90	2,809.95	33,719.50
		STEP K	16.6117	24.9175	1,328.93	2,879.36	34,552.33
		STEP L	17.0219	25.5328	1,361.75	2,950.46	35,405.55
		STEP M	17.4423	26.1634	1,395.38	3,023.33	36,279.98
		STEP N	17.8730	26.8095	1,429.84	3,097.98	37,175.84
		STEP O	18.3144	27.4716	1,465.15	3,174.49	38,093.95

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B427	CUSTODIAN	STEP A	15.2303	22.8454	1,218.42	2,639.91	31,679.02
		STEP B	15.6064	23.4096	1,248.51	2,705.10	32,461.31
		STEP C	15.9918	23.9877	1,279.34	2,771.91	33,262.94
		STEP D	16.3867	24.5800	1,310.93	2,840.36	34,084.33
		STEP E	16.7914	25.1871	1,343.31	2,910.50	34,926.11
		STEP F	17.2061	25.8091	1,376.48	2,982.39	35,788.68
		STEP G	17.6310	26.4465	1,410.48	3,056.04	36,672.48
		STEP H	18.0664	27.0996	1,445.31	3,131.50	37,578.11
		STEP I	18.5125	27.7687	1,481.00	3,208.83	38,506.00
		STEP J	18.9697	28.4545	1,517.57	3,288.08	39,456.97
		STEP K	19.4382	29.1573	1,555.05	3,369.28	40,431.45
		STEP L	19.9182	29.8773	1,593.45	3,452.48	41,429.85
		STEP M	20.4101	30.6151	1,632.80	3,537.75	42,453.00
		STEP N	20.9141	31.3711	1,673.12	3,625.11	43,501.32
		STEP O	21.4306	32.1459	1,714.44	3,714.63	44,575.64
B428	DATA MANAGEMENT SPECIALIST I	STEP A	27.9531	41.9296	2,236.24	4,845.20	58,142.44
		STEP B	28.2849	42.4273	2,262.79	4,902.71	58,832.59
		STEP C	28.9834	43.4751	2,318.67	5,023.78	60,285.47
		STEP D	29.6992	44.5488	2,375.93	5,147.86	61,774.33
		STEP E	30.4326	45.6489	2,434.60	5,274.98	63,299.80
		STEP F	31.1842	46.7763	2,494.73	5,405.26	64,863.13
		STEP G	31.9543	47.9314	2,556.34	5,538.74	66,464.94
		STEP H	32.7434	49.1151	2,619.47	5,675.52	68,106.27
		STEP I	33.5520	50.3280	2,684.16	5,815.68	69,788.16
		STEP J	34.3806	51.5709	2,750.44	5,959.30	71,511.64
		STEP K	35.2296	52.8444	2,818.36	6,106.46	73,277.56
		STEP L	36.0996	54.1494	2,887.96	6,257.26	75,087.16
		STEP M	36.9911	55.4866	2,959.28	6,411.79	76,941.48
		STEP N	37.9046	56.8569	3,032.36	6,570.13	78,841.56
		STEP O	38.8407	58.2610	3,107.25	6,732.38	80,788.65
B429	DATA MANAGEMENT SPECIALIST II	STEP A	30.3640	45.5460	2,429.12	5,263.09	63,157.12
		STEP B	31.1135	46.6702	2,489.08	5,393.00	64,716.08
		STEP C	31.8819	47.8228	2,550.55	5,526.19	66,314.35
		STEP D	32.6692	49.0038	2,613.53	5,662.66	67,951.93
		STEP E	33.4760	50.2140	2,678.08	5,802.50	69,630.08
		STEP F	34.3027	51.4540	2,744.21	5,945.80	71,349.61
		STEP G	35.1498	52.7247	2,811.98	6,092.63	73,111.58
		STEP H	36.0178	54.0267	2,881.42	6,243.08	74,917.02
		STEP I	36.9073	55.3609	2,952.58	6,397.26	76,767.18
		STEP J	37.8187	56.7280	3,025.49	6,555.24	78,662.89
		STEP K	38.7527	58.1290	3,100.21	6,717.13	80,605.61
		STEP L	39.7097	59.5645	3,176.77	6,883.01	82,596.17
		STEP M	40.6904	61.0356	3,255.23	7,053.00	84,636.03
		STEP N	41.6952	62.5428	3,335.61	7,227.16	86,726.01
		STEP O	42.7249	64.0873	3,417.99	7,405.64	88,867.79

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B430	DATABASE ANALYST I	STEP A	27.8241	41.7361	2,225.92	4,822.84	57,874.12
		STEP B	28.5112	42.7668	2,280.89	4,941.94	59,303.29
		STEP C	29.2153	43.8229	2,337.22	5,063.98	60,767.82
		STEP D	29.9368	44.9052	2,394.94	5,189.04	62,268.54
		STEP E	30.6761	46.0141	2,454.08	5,317.19	63,806.28
		STEP F	31.4337	47.1505	2,514.69	5,448.50	65,382.09
		STEP G	32.2100	48.3150	2,576.80	5,583.06	66,996.80
		STEP H	33.0054	49.5081	2,640.43	5,720.93	68,651.23
		STEP I	33.8205	50.7307	2,705.64	5,862.22	70,346.64
		STEP J	34.6557	51.9835	2,772.45	6,006.98	72,083.85
		STEP K	35.5115	53.2672	2,840.92	6,155.32	73,863.92
		STEP L	36.3885	54.5827	2,911.08	6,307.34	75,688.08
		STEP M	37.2871	55.9306	2,982.96	6,463.09	77,557.16
		STEP N	38.2079	57.3118	3,056.63	6,622.70	79,472.43
		STEP O	39.1515	58.7272	3,132.12	6,786.26	81,435.12
B431	DATABASE ANALYST II	STEP A	30.6046	45.9069	2,448.36	5,304.79	63,657.56
		STEP B	31.3604	47.0406	2,508.83	5,435.80	65,229.63
		STEP C	32.1349	48.2023	2,570.79	5,570.04	66,840.59
		STEP D	32.9285	49.3927	2,634.28	5,707.60	68,491.28
		STEP E	33.7417	50.6125	2,699.33	5,848.56	70,182.73
		STEP F	34.5749	51.8623	2,765.99	5,992.98	71,915.79
		STEP G	35.4288	53.1432	2,834.30	6,140.99	73,691.90
		STEP H	36.3037	54.4555	2,904.29	6,292.64	75,511.69
		STEP I	37.2002	55.8003	2,976.01	6,448.03	77,376.41
		STEP J	38.1189	57.1783	3,049.51	6,607.27	79,287.31
		STEP K	39.0603	58.5904	3,124.82	6,770.45	81,245.42
		STEP L	40.0249	60.0373	3,201.99	6,937.64	83,251.79
		STEP M	41.0133	61.5199	3,281.06	7,108.97	85,307.66
		STEP N	42.0261	63.0391	3,362.08	7,284.52	87,414.28
		STEP O	43.0640	64.5960	3,445.12	7,464.42	89,573.12
B432	DEPUTY CITY CLERK I	STEP A	14.6095	21.9142	1,168.76	2,532.31	30,387.76
		STEP B	14.9703	22.4554	1,197.62	2,594.85	31,138.22
		STEP C	15.3400	23.0100	1,227.20	2,658.93	31,907.20
		STEP D	15.7188	23.5782	1,257.50	2,724.59	32,695.10
		STEP E	16.1070	24.1605	1,288.56	2,791.88	33,502.56
		STEP F	16.5047	24.7570	1,320.37	2,860.81	34,329.77
		STEP G	16.9123	25.3684	1,352.98	2,931.46	35,177.58
		STEP H	17.3300	25.9950	1,386.40	3,003.86	36,046.40
		STEP I	17.7580	26.6370	1,420.64	3,078.05	36,936.64
		STEP J	18.1965	27.2947	1,455.72	3,154.06	37,848.72
		STEP K	18.6459	27.9688	1,491.67	3,231.95	38,783.47
		STEP L	19.1063	28.6594	1,528.50	3,311.75	39,741.10
		STEP M	19.5782	29.3673	1,566.25	3,393.55	40,722.65
		STEP N	20.0617	30.0925	1,604.93	3,477.36	41,728.33
		STEP O	20.5571	30.8356	1,644.56	3,563.23	42,758.76

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B433	DEPUTY CITY CLERK II	STEP A	16.0707	24.1060	1,285.65	2,785.58	33,427.05
		STEP B	16.4676	24.7014	1,317.40	2,854.38	34,252.60
		STEP C	18.8743	28.3114	1,509.94	3,271.54	39,258.54
		STEP D	17.2910	25.9365	1,383.28	2,997.10	35,965.28
		STEP E	17.7180	26.5770	1,417.44	3,071.12	36,853.44
		STEP F	18.1555	27.2332	1,452.44	3,146.95	37,763.44
		STEP G	18.6039	27.9058	1,488.31	3,224.67	38,696.11
		STEP H	19.0633	28.5949	1,525.06	3,304.30	39,651.66
		STEP I	19.5341	29.3011	1,562.72	3,385.91	40,630.92
		STEP J	20.0165	30.0247	1,601.32	3,469.52	41,634.32
		STEP K	20.5108	30.7662	1,640.86	3,555.20	42,662.46
		STEP L	21.0173	31.5259	1,681.38	3,643.00	43,715.98
		STEP M	21.5364	32.3046	1,722.91	3,732.97	44,795.71
		STEP N	22.0682	33.1023	1,765.45	3,825.15	45,901.85
		STEP O	22.6132	33.9198	1,809.05	3,919.62	47,035.45
B434	DEVELOPMENT TECHNICIAN I	STEP A	20.0598	30.0897	1,604.78	3,477.03	41,724.38
		STEP B	20.5552	30.8328	1,644.41	3,562.90	42,754.81
		STEP C	21.0628	31.5942	1,685.02	3,650.88	43,810.62
		STEP D	21.5830	32.3745	1,726.64	3,741.05	44,892.64
		STEP E	22.1160	33.1740	1,769.28	3,833.44	46,001.28
		STEP F	22.6621	33.9931	1,812.96	3,928.09	47,137.16
		STEP G	23.2218	34.8327	1,857.74	4,025.11	48,301.34
		STEP H	23.7953	35.6929	1,903.62	4,124.51	49,494.22
		STEP I	24.3829	36.5743	1,950.63	4,226.36	50,716.43
		STEP J	24.9850	37.4775	1,998.80	4,330.73	51,968.80
		STEP K	25.6021	38.4031	2,048.16	4,437.69	53,252.36
		STEP L	26.2343	39.3514	2,098.74	4,547.27	54,567.34
		STEP M	26.8822	40.3233	2,150.57	4,659.58	55,914.97
		STEP N	27.5460	41.3190	2,203.68	4,774.64	57,295.68
		STEP O	28.2263	42.3394	2,258.10	4,892.55	58,710.70
B435	DEVELOPMENT TECHNICIAN II	STEP A	22.0658	33.0987	1,765.26	3,824.73	45,896.86
		STEP B	22.6107	33.9160	1,808.85	3,919.18	47,030.25
		STEP C	23.1691	34.7536	1,853.52	4,015.97	48,191.72
		STEP D	23.7412	35.6118	1,899.29	4,115.14	49,381.69
		STEP E	24.3275	36.4912	1,946.20	4,216.76	50,601.20
		STEP F	24.9283	37.3924	1,994.26	4,320.90	51,850.86
		STEP G	25.5439	38.3158	2,043.51	4,427.60	53,131.31
		STEP H	26.1748	39.2622	2,093.98	4,536.96	54,443.58
		STEP I	26.8212	40.2318	2,145.69	4,649.00	55,788.09
		STEP J	27.4835	41.2252	2,198.68	4,763.80	57,165.68
		STEP K	28.1622	42.2433	2,252.97	4,881.44	58,577.37
		STEP L	28.8577	43.2865	2,308.61	5,002.00	60,024.01
		STEP M	29.5704	44.3556	2,365.63	5,125.53	61,506.43
		STEP N	30.3006	45.4509	2,424.04	5,252.10	63,025.24
		STEP O	31.0489	46.5733	2,483.91	5,381.80	64,581.71

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B438	ENERGY PROGRAM TECHNICIAN	STEP A	20.7915	31.1872	1,663.32	3,603.86	43,246.32
		STEP B	21.3050	31.9575	1,704.40	3,692.86	44,314.40
		STEP C	21.8311	32.7466	1,746.48	3,784.05	45,408.68
		STEP D	22.3702	33.5553	1,789.61	3,877.50	46,530.01
		STEP E	22.9227	34.3840	1,833.81	3,973.26	47,679.21
		STEP F	23.4888	35.2332	1,879.10	4,071.39	48,856.70
		STEP G	24.0688	36.1032	1,925.50	4,171.92	50,063.10
		STEP H	24.6632	36.9948	1,973.05	4,274.95	51,299.45
		STEP I	25.2723	37.9084	2,021.78	4,380.53	52,566.38
		STEP J	25.8964	38.8446	2,071.71	4,488.70	53,864.51
		STEP K	26.5359	39.8038	2,122.87	4,599.55	55,194.67
		STEP L	27.1912	40.7868	2,175.29	4,713.14	56,557.69
		STEP M	27.8627	41.7940	2,229.01	4,829.53	57,954.41
		STEP N	28.5508	42.8262	2,284.06	4,948.80	59,385.66
		STEP O	29.2559	43.8838	2,340.47	5,071.02	60,852.27
B440	ENGINEERING TECHNICIAN I	STEP A	20.1226	30.1839	1,609.80	3,487.91	41,855.00
		STEP B	20.6195	30.9292	1,649.56	3,574.04	42,888.56
		STEP C	21.1287	31.6930	1,690.29	3,662.30	43,947.69
		STEP D	21.6505	32.4757	1,732.04	3,752.75	45,033.04
		STEP E	22.1852	33.2778	1,774.81	3,845.43	46,145.21
		STEP F	22.7330	34.0995	1,818.64	3,940.38	47,284.64
		STEP G	23.2944	34.9416	1,863.55	4,037.69	48,452.35
		STEP H	23.8697	35.8045	1,909.57	4,137.41	49,648.97
		STEP I	24.4592	36.6888	1,956.73	4,239.59	50,875.13
		STEP J	25.0632	37.5948	2,005.05	4,344.28	52,131.45
		STEP K	25.6821	38.5231	2,054.56	4,451.56	53,418.76
		STEP L	26.3164	39.4746	2,105.31	4,561.50	54,738.11
		STEP M	26.9663	40.4494	2,157.30	4,674.15	56,089.90
		STEP N	27.6322	41.4483	2,210.57	4,789.58	57,474.97
		STEP O	28.3146	42.4719	2,265.16	4,907.86	58,894.36
B441	ENGINEERING TECHNICIAN II	STEP A	22.1349	33.2023	1,770.79	3,836.71	46,040.59
		STEP B	22.6815	34.0222	1,814.52	3,931.46	47,177.52
		STEP C	23.2416	34.8624	1,859.32	4,028.54	48,342.52
		STEP D	23.8156	35.7234	1,905.24	4,128.03	49,536.44
		STEP E	24.4037	36.6055	1,952.29	4,229.97	50,759.69
		STEP F	25.0064	37.5096	2,000.51	4,334.44	52,013.31
		STEP G	25.6239	38.4358	2,049.91	4,441.47	53,297.71
		STEP H	26.2567	39.3850	2,100.53	4,551.16	54,613.93
		STEP I	26.9051	40.3576	2,152.40	4,663.55	55,962.60
		STEP J	27.5696	41.3544	2,205.56	4,778.73	57,344.76
		STEP K	28.2504	42.3756	2,260.03	4,896.73	58,760.83
		STEP L	28.9480	43.4220	2,315.84	5,017.65	60,211.84
		STEP M	29.6629	44.4943	2,373.03	5,141.56	61,698.83
		STEP N	30.3955	45.5932	2,431.64	5,268.55	63,222.64
		STEP O	31.1461	46.7191	2,491.68	5,398.65	64,783.88

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B442	ENVIRONMENTAL COMPL SPEC I						
		STEP A	20.5911	30.8866	1,647.28	3,569.12	42,829.48
		STEP B	21.0995	31.6492	1,687.96	3,657.24	43,886.96
		STEP C	21.6205	32.4307	1,729.64	3,747.55	44,970.64
		STEP D	22.1545	33.2317	1,772.36	3,840.11	46,081.36
		STEP E	22.7016	34.0524	1,816.12	3,934.94	47,219.32
		STEP F	23.2622	34.8933	1,860.97	4,032.11	48,385.37
		STEP G	23.8367	35.7550	1,906.93	4,131.69	49,580.33
		STEP H	24.4253	36.6379	1,954.02	4,233.71	50,804.62
		STEP I	25.0285	37.5427	2,002.28	4,338.27	52,059.28
		STEP J	25.6466	38.4699	2,051.72	4,445.41	53,344.92
		STEP K	26.2800	39.4200	2,102.40	4,555.20	54,662.40
		STEP L	26.9290	40.3935	2,154.32	4,667.69	56,012.32
		STEP M	27.5940	41.3910	2,207.52	4,782.96	57,395.52
		STEP N	28.2754	42.4131	2,262.03	4,901.06	58,812.83
		STEP O	28.9737	43.4605	2,317.89	5,022.10	60,265.29
B443	ENVIRONMENTAL COMPL SPEC II						
		STEP A	22.6494	33.9741	1,811.95	3,925.89	47,110.75
		STEP B	23.2088	34.8132	1,856.70	4,022.85	48,274.30
		STEP C	23.7819	35.6728	1,902.55	4,122.19	49,466.35
		STEP D	24.3692	36.5538	1,949.53	4,223.99	50,687.93
		STEP E	24.9711	37.4566	1,997.68	4,328.32	51,939.88
		STEP F	25.5877	38.3815	2,047.01	4,435.20	53,222.41
		STEP G	26.2196	39.3294	2,097.56	4,544.73	54,536.76
		STEP H	26.8671	40.3006	2,149.36	4,656.96	55,883.56
		STEP I	27.5306	41.2959	2,202.44	4,771.97	57,263.64
		STEP J	28.2105	42.3157	2,256.84	4,889.82	58,677.84
		STEP K	28.9072	43.3608	2,312.57	5,010.58	60,126.97
		STEP L	29.6210	44.4315	2,369.68	5,134.30	61,611.68
		STEP M	30.3526	45.5289	2,428.20	5,261.11	63,133.40
		STEP N	31.1021	46.6531	2,488.16	5,391.03	64,692.36
		STEP O	31.8702	47.8053	2,549.61	5,524.16	66,290.01
B444	EQUIPMENT SERVICEWORKER						
		STEP A	18.7292	28.0938	1,498.33	3,246.39	38,956.73
		STEP B	19.1918	28.7877	1,535.34	3,326.57	39,918.94
		STEP C	19.6658	29.4987	1,573.26	3,408.73	40,904.86
		STEP D	20.1514	30.2271	1,612.11	3,492.90	41,914.91
		STEP E	20.6491	30.9736	1,651.92	3,579.17	42,950.12
		STEP F	21.1590	31.7385	1,692.72	3,667.56	44,010.72
		STEP G	21.6815	32.5222	1,734.52	3,758.12	45,097.52
		STEP H	22.2170	33.3255	1,777.36	3,850.94	46,211.36
		STEP I	22.7656	34.1484	1,821.24	3,946.03	47,352.44
		STEP J	23.3278	34.9917	1,866.22	4,043.48	48,521.82
		STEP K	23.9039	35.8558	1,912.31	4,143.34	49,720.11
		STEP L	24.4942	36.7413	1,959.53	4,245.66	50,947.93
		STEP M	25.0991	37.6486	2,007.92	4,350.51	52,206.12
		STEP N	25.7190	38.5785	2,057.52	4,457.96	53,495.52
		STEP O	26.3541	39.5311	2,108.32	4,568.04	54,816.52

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B445	FINANCE CLERK I	STEP A	16.1857	24.2785	1,294.85	2,805.52	33,666.25
		STEP B	16.5854	24.8781	1,326.83	2,874.80	34,497.63
		STEP C	16.9950	25.4925	1,359.60	2,945.80	35,349.60
		STEP D	17.4147	26.1220	1,393.17	3,018.54	36,222.57
		STEP E	17.8448	26.7672	1,427.58	3,093.09	37,117.18
		STEP F	18.2854	27.4281	1,462.83	3,169.46	38,033.63
		STEP G	18.7370	28.1055	1,498.96	3,247.74	38,972.96
		STEP H	19.1997	28.7995	1,535.97	3,327.94	39,935.37
		STEP I	19.6739	29.5108	1,573.91	3,410.14	40,921.71
		STEP J	20.1597	30.2395	1,612.77	3,494.34	41,932.17
		STEP K	20.6576	30.9864	1,652.60	3,580.65	42,967.80
		STEP L	21.1677	31.7515	1,693.41	3,669.06	44,028.81
		STEP M	21.6905	32.5357	1,735.24	3,759.68	45,116.24
		STEP N	22.2261	33.3391	1,778.08	3,852.52	46,230.28
		STEP O	22.7750	34.1625	1,822.00	3,947.66	47,372.00
B446	FINANCE CLERK II	STEP A	17.8043	26.7064	1,424.34	3,086.07	37,032.94
		STEP B	18.2439	27.3658	1,459.51	3,162.27	37,947.31
		STEP C	18.6944	28.0416	1,495.55	3,240.36	38,884.35
		STEP D	19.1561	28.7341	1,532.48	3,320.39	39,844.68
		STEP E	19.6291	29.4436	1,570.32	3,402.37	40,828.52
		STEP F	20.1139	30.1708	1,609.11	3,486.40	41,836.91
		STEP G	20.6106	30.9159	1,648.84	3,572.50	42,870.04
		STEP H	21.1196	31.6794	1,689.56	3,660.73	43,928.76
		STEP I	21.6412	32.4618	1,731.29	3,751.14	45,013.69
		STEP J	22.1756	33.2634	1,774.04	3,843.77	46,125.24
		STEP K	22.7232	34.0848	1,817.85	3,938.68	47,264.25
		STEP L	23.2844	34.9266	1,862.75	4,035.96	48,431.55
		STEP M	23.8594	35.7891	1,908.75	4,135.62	49,627.55
		STEP N	24.4486	36.6729	1,955.88	4,237.75	50,853.08
		STEP O	25.0524	37.5786	2,004.19	4,342.41	52,108.99
B447	FINANCE TECHNICIAN I	STEP A	18.5859	27.8788	1,486.87	3,221.55	38,658.67
		STEP B	19.0448	28.5672	1,523.58	3,301.09	39,613.18
		STEP C	19.5151	29.2726	1,561.20	3,382.61	40,591.40
		STEP D	19.9970	29.9955	1,599.76	3,466.14	41,593.76
		STEP E	20.4909	30.7363	1,639.27	3,551.75	42,621.07
		STEP F	20.9969	31.4953	1,679.75	3,639.46	43,673.55
		STEP G	21.5154	32.2731	1,721.23	3,729.33	44,752.03
		STEP H	22.0468	33.0702	1,763.74	3,821.44	45,857.34
		STEP I	22.5912	33.8868	1,807.29	3,915.80	46,989.69
		STEP J	23.1491	34.7236	1,851.92	4,012.51	48,150.12
		STEP K	23.7208	35.5812	1,897.66	4,111.60	49,339.26
		STEP L	24.3066	36.4599	1,944.52	4,213.14	50,557.72
		STEP M	24.9068	37.3602	1,992.54	4,317.17	51,806.14
		STEP N	25.5219	38.2828	2,041.75	4,423.79	53,085.55
		STEP O	26.1522	39.2283	2,092.17	4,533.04	54,396.57

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B448	FINANCE TECHNICIAN II	STEP A	20.4446	30.6669	1,635.56	3,543.73	42,524.76
		STEP B	20.9492	31.4238	1,675.93	3,631.19	43,574.33
		STEP C	21.4666	32.1999	1,717.32	3,720.87	44,650.52
		STEP D	21.9967	32.9950	1,759.73	3,812.76	45,753.13
		STEP E	22.5399	33.8098	1,803.19	3,906.91	46,882.99
		STEP F	23.0966	34.6449	1,847.72	4,003.41	48,040.92
		STEP G	23.6670	35.5005	1,893.36	4,102.28	49,227.36
		STEP H	24.2514	36.3771	1,940.11	4,203.57	50,442.91
		STEP I	24.8503	37.2754	1,988.02	4,307.38	51,688.62
		STEP J	25.4640	38.1960	2,037.12	4,413.76	52,965.12
		STEP K	26.0928	39.1392	2,087.42	4,522.75	54,273.02
		STEP L	26.7372	40.1058	2,138.97	4,634.44	55,613.37
		STEP M	27.3975	41.0962	2,191.80	4,748.90	56,986.80
		STEP N	28.0741	42.1111	2,245.92	4,866.17	58,394.12
		STEP O	28.7674	43.1511	2,301.39	4,986.34	59,836.19
B449	FINANCIAL ANALYST I	STEP A	29.7162	44.5743	2,377.29	5,150.80	61,809.69
		STEP B	30.4499	45.6748	2,435.99	5,277.98	63,335.79
		STEP C	31.2018	46.8027	2,496.14	5,408.31	64,899.74
		STEP D	31.9724	47.9586	2,557.79	5,541.88	66,502.59
		STEP E	32.7619	49.1428	2,620.95	5,678.72	68,144.75
		STEP F	33.5710	50.3565	2,685.68	5,818.97	69,827.68
		STEP G	34.4001	51.6001	2,752.00	5,962.68	71,552.20
		STEP H	35.2496	52.8744	2,819.96	6,109.93	73,319.16
		STEP I	36.1201	54.1801	2,889.60	6,260.81	75,129.80
		STEP J	37.0121	55.5181	2,960.96	6,415.43	76,985.16
		STEP K	37.9261	56.8891	3,034.08	6,573.85	78,886.28
		STEP L	38.8627	58.2940	3,109.01	6,736.20	80,834.41
		STEP M	39.8225	59.7337	3,185.80	6,902.56	82,830.80
		STEP N	40.8059	61.2088	3,264.47	7,073.02	84,876.27
		STEP O	41.8136	62.7204	3,345.08	7,247.69	86,972.28
B450	FINANCIAL ANALYST II	STEP A	33.5734	50.3601	2,685.87	5,819.38	69,832.67
		STEP B	34.4023	51.6034	2,752.18	5,963.06	71,556.78
		STEP C	35.2519	52.8778	2,820.15	6,110.32	73,323.95
		STEP D	36.1225	54.1837	2,889.80	6,261.23	75,134.80
		STEP E	37.0145	55.5217	2,961.16	6,415.84	76,990.16
		STEP F	37.9286	56.8929	3,034.28	6,574.29	78,891.48
		STEP G	38.8653	58.2979	3,109.22	6,736.65	80,839.82
		STEP H	39.8251	59.7376	3,186.00	6,903.01	82,836.20
		STEP I	40.8086	61.2129	3,264.68	7,073.49	84,881.88
		STEP J	41.8163	62.7244	3,345.30	7,248.15	86,977.90
		STEP K	42.8490	64.2735	3,427.92	7,427.16	89,125.92
		STEP L	43.9072	65.8608	3,512.57	7,610.58	91,326.97
		STEP M	44.9915	67.4872	3,599.32	7,798.52	93,582.32
		STEP N	46.1026	69.1539	3,688.20	7,991.11	95,893.40
		STEP O	47.2411	70.8616	3,779.28	8,188.45	98,261.48

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B451	FIRE TECHNICIAN I	STEP A	18.3946	27.5919	1,471.56	3,188.39	38,260.76
		STEP B	18.8486	28.2729	1,507.88	3,267.09	39,205.08
		STEP C	19.3141	28.9711	1,545.12	3,347.77	40,173.32
		STEP D	19.7910	29.6865	1,583.28	3,430.44	41,165.28
		STEP E	20.2798	30.4197	1,622.38	3,515.16	42,181.98
		STEP F	20.7806	31.1709	1,662.44	3,601.97	43,223.64
		STEP G	21.2938	31.9407	1,703.50	3,690.92	44,291.10
		STEP H	21.8196	32.7294	1,745.56	3,782.06	45,384.76
		STEP I	22.3585	33.5377	1,788.68	3,875.47	46,505.68
		STEP J	22.9106	34.3659	1,832.84	3,971.17	47,654.04
		STEP K	23.4764	35.2146	1,878.11	4,069.24	48,830.91
		STEP L	24.0562	36.0843	1,924.49	4,169.74	50,036.89
		STEP M	24.6503	36.9754	1,972.02	4,272.71	51,272.62
		STEP N	25.2590	37.8885	2,020.72	4,378.22	52,538.72
		STEP O	25.8828	38.8242	2,070.62	4,486.35	53,836.22
B452	FIRE TECHNICIAN II	STEP A	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP B	21.5878	32.3817	1,727.02	3,741.88	44,902.62
		STEP C	22.1209	33.1813	1,769.67	3,834.28	46,011.47
		STEP D	22.6672	34.0008	1,813.37	3,928.98	47,147.77
		STEP E	23.2269	34.8403	1,858.15	4,026.00	48,311.95
		STEP F	23.8005	35.7007	1,904.04	4,125.42	49,505.04
		STEP G	24.3883	36.5824	1,951.06	4,227.30	50,727.66
		STEP H	24.9906	37.4859	1,999.24	4,331.70	51,980.44
		STEP I	25.6077	38.4115	2,048.61	4,438.66	53,264.01
		STEP J	26.2401	39.3601	2,099.20	4,548.28	54,579.40
		STEP K	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP L	27.5521	41.3281	2,204.16	4,775.69	57,308.36
		STEP M	28.2326	42.3489	2,258.60	4,893.65	58,723.80
		STEP N	28.9298	43.3947	2,314.38	5,014.49	60,173.98
		STEP O	29.6442	44.4663	2,371.53	5,138.32	61,659.93
B453	FLEET MANAGEMENT TECHNICIAN	STEP A	26.0606	39.0909	2,084.84	4,517.17	54,206.04
		STEP B	26.7040	40.0560	2,136.32	4,628.69	55,544.32
		STEP C	27.3635	41.0452	2,189.08	4,743.00	56,916.08
		STEP D	28.0392	42.0588	2,243.13	4,860.12	58,321.53
		STEP E	28.7317	43.0975	2,298.53	4,980.16	59,761.93
		STEP F	29.4412	44.1618	2,355.29	5,103.14	61,237.69
		STEP G	30.1683	45.2524	2,413.46	5,229.17	62,750.06
		STEP H	30.9133	46.3699	2,473.06	5,358.30	64,299.66
		STEP I	31.6767	47.5150	2,534.13	5,490.62	65,887.53
		STEP J	32.4590	48.6885	2,596.72	5,626.22	67,514.72
		STEP K	33.2605	49.8907	2,660.84	5,765.15	69,181.84
		STEP L	34.0819	51.1228	2,726.55	5,907.52	70,890.35
		STEP M	34.9236	52.3854	2,793.88	6,053.42	72,641.08
		STEP N	35.7860	53.6790	2,862.88	6,202.90	74,434.88
		STEP O	36.6698	55.0047	2,933.58	6,356.09	76,273.18

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B454	GIS ANALYST I	STEP A	25.9797	38.9695	2,078.37	4,503.14	54,037.77
		STEP B	26.6211	39.9316	2,129.68	4,614.32	55,371.88
		STEP C	27.2785	40.9177	2,182.28	4,728.27	56,739.28
		STEP D	27.9522	41.9283	2,236.17	4,845.04	58,140.57
		STEP E	28.6425	42.9637	2,291.40	4,964.70	59,576.40
		STEP F	29.3498	44.0247	2,347.98	5,087.29	61,047.58
		STEP G	30.0746	45.1119	2,405.96	5,212.93	62,555.16
		STEP H	30.8173	46.2259	2,465.38	5,341.66	64,099.98
		STEP I	31.5784	47.3676	2,526.27	5,473.58	65,683.07
		STEP J	32.3582	48.5373	2,588.65	5,608.75	67,305.05
		STEP K	33.1573	49.7359	2,652.58	5,747.26	68,967.18
		STEP L	33.9762	50.9643	2,718.09	5,889.20	70,670.49
		STEP M	34.8152	52.2228	2,785.21	6,034.63	72,415.61
		STEP N	35.6750	53.5125	2,854.00	6,183.66	74,204.00
		STEP O	36.5560	54.8340	2,924.48	6,336.37	76,036.48
B455	GIS ANALYST II	STEP A	28.7899	43.1848	2,303.19	4,990.24	59,882.99
		STEP B	29.5006	44.2509	2,360.04	5,113.43	61,361.24
		STEP C	30.2291	45.3436	2,418.32	5,239.71	62,876.52
		STEP D	30.9757	46.4635	2,478.05	5,369.12	64,429.45
		STEP E	31.7406	47.6109	2,539.24	5,501.70	66,020.44
		STEP F	32.5245	48.7867	2,601.96	5,637.58	67,650.96
		STEP G	33.3277	49.9915	2,666.21	5,776.80	69,321.61
		STEP H	34.1507	51.2260	2,732.05	5,919.45	71,033.45
		STEP I	34.9941	52.4911	2,799.52	6,065.64	72,787.72
		STEP J	35.8573	53.7859	2,868.58	6,215.26	74,583.18
		STEP K	36.7438	55.1157	2,939.50	6,368.92	76,427.10
		STEP L	37.6512	56.4768	3,012.09	6,526.20	78,314.49
		STEP M	38.5810	57.8715	3,086.48	6,687.37	80,248.48
		STEP N	39.5338	59.3007	3,162.70	6,852.52	82,230.30
		STEP O	40.5101	60.7651	3,240.80	7,021.75	84,261.00
B456	HOUSING ANALYST I	STEP A	26.1457	39.2185	2,091.65	4,531.92	54,383.05
		STEP B	26.7912	40.1868	2,143.29	4,643.80	55,725.69
		STEP C	27.4529	41.1793	2,196.23	4,758.50	57,102.03
		STEP D	28.1308	42.1962	2,250.46	4,876.00	58,512.06
		STEP E	28.8255	43.2382	2,306.04	4,996.42	59,957.04
		STEP F	29.5374	44.3061	2,362.99	5,119.81	61,437.79
		STEP G	30.2668	45.4002	2,421.34	5,246.24	62,954.94
		STEP H	31.0143	46.5214	2,481.14	5,375.81	64,509.74
		STEP I	31.7802	47.6703	2,542.41	5,508.56	66,102.81
		STEP J	32.5650	48.8475	2,605.20	5,644.60	67,735.20
		STEP K	33.3692	50.0538	2,669.53	5,783.99	69,407.93
		STEP L	34.1933	51.2899	2,735.46	5,926.83	71,122.06
		STEP M	35.0377	52.5565	2,803.01	6,073.20	72,878.41
		STEP N	35.9030	53.8545	2,872.24	6,223.18	74,678.24
		STEP O	36.7896	55.1844	2,943.16	6,376.86	76,522.36

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B457	HOUSING ANALYST II	STEP A	28.7602	43.1403	2,300.81	4,985.10	59,821.21
		STEP B	29.4705	44.2057	2,357.64	5,108.22	61,298.64
		STEP C	30.1983	45.2974	2,415.86	5,234.37	62,812.46
		STEP D	30.9440	46.4160	2,475.52	5,363.62	64,363.52
		STEP E	31.7082	47.5623	2,536.65	5,496.08	65,953.05
		STEP F	32.4912	48.7368	2,599.29	5,631.80	67,581.69
		STEP G	33.2936	49.9404	2,663.48	5,770.89	69,250.68
		STEP H	34.1158	51.1737	2,729.26	5,913.40	70,960.86
		STEP I	34.9583	52.4374	2,796.66	6,059.43	72,713.26
		STEP J	35.8216	53.7324	2,865.72	6,209.07	74,508.92
		STEP K	36.7063	55.0594	2,936.50	6,362.42	76,349.10
		STEP L	37.6127	56.4190	3,009.01	6,519.53	78,234.41
		STEP M	38.5416	57.8124	3,083.32	6,680.54	80,166.52
		STEP N	39.4934	59.2401	3,159.47	6,845.52	82,146.27
		STEP O	40.4687	60.7030	3,237.49	7,014.57	84,174.89
B458	HOUSING TECHNICIAN I	STEP A	18.4854	27.7281	1,478.83	3,204.13	38,449.63
		STEP B	18.9417	28.4125	1,515.33	3,283.22	39,398.73
		STEP C	19.4095	29.1142	1,552.76	3,364.31	40,371.76
		STEP D	19.8880	29.8320	1,591.04	3,447.25	41,367.04
		STEP E	20.3800	30.5700	1,630.40	3,532.53	42,390.40
		STEP F	20.8833	31.3249	1,670.66	3,619.77	43,437.26
		STEP G	21.3990	32.0985	1,711.92	3,709.16	44,509.92
		STEP H	21.9275	32.8912	1,754.20	3,800.76	45,609.20
		STEP I	22.4690	33.7035	1,797.52	3,894.62	46,735.52
		STEP J	23.0239	34.5358	1,841.91	3,990.80	47,889.71
		STEP K	23.5924	35.3886	1,887.39	4,089.34	49,072.19
		STEP L	24.1751	36.2626	1,934.00	4,190.35	50,284.20
		STEP M	24.7721	37.1581	1,981.76	4,293.83	51,525.96
		STEP N	25.3838	38.0757	2,030.70	4,399.85	52,798.30
		STEP O	26.0107	39.0160	2,080.85	4,508.52	54,102.25
B459	HOUSING TECHNICIAN II	STEP A	20.3346	30.5019	1,626.76	3,524.66	42,295.96
		STEP B	20.8366	31.2549	1,666.92	3,611.67	43,340.12
		STEP C	21.3512	32.0268	1,708.09	3,700.87	44,410.49
		STEP D	21.8784	32.8176	1,750.27	3,792.25	45,507.07
		STEP E	22.4187	33.6280	1,793.49	3,885.90	46,630.89
		STEP F	22.9724	34.4586	1,837.79	3,981.88	47,782.59
		STEP G	23.5397	35.3095	1,883.17	4,080.21	48,962.57
		STEP H	24.1210	36.1815	1,929.68	4,180.97	50,171.68
		STEP I	24.7167	37.0750	1,977.33	4,284.22	51,410.73
		STEP J	25.3271	37.9906	2,026.16	4,390.03	52,680.36
		STEP K	25.9525	38.9287	2,076.20	4,498.43	53,981.20
		STEP L	26.5934	39.8901	2,127.47	4,609.52	55,314.27
		STEP M	27.2502	40.8753	2,180.01	4,723.36	56,680.41
		STEP N	27.9231	41.8846	2,233.84	4,840.00	58,080.04
		STEP O	28.6127	42.9190	2,289.01	4,959.53	59,514.41

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B460	INDUSTRIAL WASTE SPECIALIST	STEP A	26.6112	39.9168	2,128.89	4,612.60	55,351.29
		STEP B	27.2682	40.9023	2,181.45	4,726.48	56,717.85
		STEP C	27.9416	41.9124	2,235.32	4,843.21	58,118.52
		STEP D	28.6316	42.9474	2,290.52	4,962.81	59,553.72
		STEP E	29.3387	44.0080	2,347.09	5,085.37	61,024.49
		STEP F	30.0632	45.0948	2,405.05	5,210.95	62,531.45
		STEP G	30.8056	46.2084	2,464.44	5,339.63	64,075.64
		STEP H	31.5664	47.3496	2,525.31	5,471.50	65,658.11
		STEP I	32.3459	48.5188	2,587.67	5,606.62	67,279.47
		STEP J	33.1447	49.7170	2,651.57	5,745.08	68,940.97
		STEP K	33.9632	50.9448	2,717.05	5,886.95	70,643.45
		STEP L	34.8020	52.2030	2,784.16	6,032.34	72,388.16
		STEP M	35.6614	53.4921	2,852.91	6,181.30	74,175.71
		STEP N	36.5421	54.8131	2,923.36	6,333.96	76,007.56
		STEP O	37.4445	56.1667	2,995.56	6,490.38	77,884.56
B461	INDUSTRIAL WASTE TECHNICIAN	STEP A	23.1393	34.7089	1,851.14	4,010.81	48,129.74
		STEP B	23.7106	35.5659	1,896.84	4,109.83	49,318.04
		STEP C	24.2962	36.4443	1,943.69	4,211.34	50,536.09
		STEP D	24.8962	37.3443	1,991.69	4,315.34	51,784.09
		STEP E	25.5110	38.2665	2,040.88	4,421.90	53,062.88
		STEP F	26.1410	39.2115	2,091.28	4,531.10	54,373.28
		STEP G	26.7865	40.1797	2,142.92	4,642.99	55,715.92
		STEP H	27.4481	41.1721	2,195.84	4,757.67	57,092.04
		STEP I	28.1259	42.1888	2,250.07	4,875.15	58,501.87
		STEP J	28.8205	43.2307	2,305.64	4,995.55	59,946.64
		STEP K	29.5322	44.2983	2,362.57	5,118.91	61,426.97
		STEP L	30.2615	45.3922	2,420.92	5,245.32	62,943.92
		STEP M	31.0088	46.5132	2,480.70	5,374.85	64,498.30
		STEP N	31.7746	47.6619	2,541.96	5,507.59	66,091.16
		STEP O	32.5593	48.8389	2,604.74	5,643.61	67,723.34
B463	INTERPRETIVE SRVC SPECIALST I	STEP A	19.6833	29.5249	1,574.66	3,411.77	40,941.26
		STEP B	20.1692	30.2538	1,613.53	3,495.99	41,951.93
		STEP C	20.6673	31.0009	1,653.38	3,582.33	42,987.98
		STEP D	21.1777	31.7665	1,694.21	3,670.80	44,049.61
		STEP E	21.7007	32.5510	1,736.05	3,761.45	45,137.45
		STEP F	22.2366	33.3549	1,778.92	3,854.34	46,252.12
		STEP G	22.7858	34.1787	1,822.86	3,949.53	47,394.46
		STEP H	23.3485	35.0227	1,867.88	4,047.07	48,564.88
		STEP I	23.9251	35.8876	1,914.00	4,147.01	49,764.20
		STEP J	24.5159	36.7738	1,961.27	4,249.42	50,993.07
		STEP K	25.1213	37.6819	2,009.70	4,354.35	52,252.30
		STEP L	25.7417	38.6125	2,059.33	4,461.89	53,542.73
		STEP M	36.3774	54.5661	2,910.19	6,305.41	75,664.99
		STEP N	27.0288	40.5432	2,162.30	4,684.99	56,219.90
		STEP O	27.6963	41.5444	2,215.70	4,800.69	57,608.30

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B462	INTERPRETIVE SRVC SPECIALST II	STEP A	21.6515	32.4772	1,732.12	3,752.92	45,035.12
		STEP B	22.1861	33.2791	1,774.88	3,845.59	46,147.08
		STEP C	22.7340	34.1010	1,818.72	3,940.56	47,286.72
		STEP D	23.2955	34.9432	1,863.64	4,037.88	48,454.64
		STEP E	23.8708	35.8062	1,909.66	4,137.60	49,651.26
		STEP F	24.4603	36.6904	1,956.82	4,239.78	50,877.42
		STEP G	25.0643	37.5964	2,005.14	4,344.47	52,133.74
		STEP H	25.6833	38.5249	2,054.66	4,451.77	53,421.26
		STEP I	26.3175	39.4762	2,105.40	4,561.70	54,740.40
		STEP J	26.9675	40.4512	2,157.40	4,674.36	56,092.40
		STEP K	27.6334	41.4501	2,210.67	4,789.78	57,477.47
		STEP L	28.3159	42.4738	2,265.27	4,908.08	58,897.07
		STEP M	29.0151	43.5226	2,321.20	5,029.28	60,351.40
		STEP N	29.7317	44.5975	2,378.53	5,153.49	61,841.93
		STEP O	30.4659	45.6988	2,437.27	5,280.75	63,369.07
B464	IRRIGATION TECHNICIAN	STEP A	24.2277	36.3415	1,938.21	4,199.46	50,393.61
		STEP B	24.8258	37.2387	1,986.06	4,303.13	51,637.66
		STEP C	25.4389	38.1583	2,035.11	4,409.40	52,912.91
		STEP D	26.0671	39.1006	2,085.36	4,518.29	54,219.56
		STEP E	26.7109	40.0663	2,136.87	4,629.88	55,558.67
		STEP F	27.3705	41.0557	2,189.64	4,744.22	56,930.64
		STEP G	28.0464	42.0696	2,243.71	4,861.37	58,336.51
		STEP H	28.7391	43.1086	2,299.12	4,981.44	59,777.32
		STEP I	29.4488	44.1732	2,355.90	5,104.45	61,253.50
		STEP J	30.1760	45.2640	2,414.08	5,230.50	62,766.08
		STEP K	30.9212	46.3818	2,473.69	5,359.67	64,316.09
		STEP L	31.6848	47.5272	2,534.78	5,492.03	65,904.38
		STEP M	32.4673	48.7009	2,597.38	5,627.66	67,531.98
		STEP N	33.2691	49.9036	2,661.52	5,766.64	69,199.72
		STEP O	34.0907	51.1360	2,727.25	5,909.05	70,908.65
B465	IT ANALYST I	STEP A	27.3989	41.0983	2,191.91	4,749.14	56,989.71
		STEP B	28.0754	42.1131	2,246.03	4,866.40	58,396.83
		STEP C	28.7687	43.1530	2,301.49	4,986.57	59,838.89
		STEP D	29.4792	44.2188	2,358.33	5,109.72	61,316.73
		STEP E	30.2072	45.3108	2,416.57	5,235.91	62,830.97
		STEP F	30.9532	46.4298	2,476.25	5,365.22	64,382.65
		STEP G	31.7176	47.5764	2,537.40	5,497.71	65,972.60
		STEP H	32.5008	48.7512	2,600.06	5,633.47	67,601.66
		STEP I	33.3035	49.9552	2,664.28	5,772.60	69,271.28
		STEP J	34.1259	51.1888	2,730.07	5,915.15	70,981.87
		STEP K	34.9687	52.4530	2,797.49	6,061.24	72,734.89
		STEP L	35.8322	53.7483	2,866.57	6,210.91	74,530.97
		STEP M	36.7171	55.0756	2,937.36	6,364.29	76,371.56
		STEP N	37.6239	56.4358	3,009.91	6,521.47	78,257.71
		STEP O	38.5530	57.8295	3,084.24	6,682.52	80,190.24

CITY OF ROSEVILLE
SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B466	IT ANALYST II	STEP A	30.1390	45.2085	2,411.12	5,224.09	62,689.12
		STEP B	30.8829	46.3243	2,470.63	5,353.03	64,236.43
		STEP C	31.6456	47.4684	2,531.64	5,485.23	65,822.84
		STEP D	32.4271	48.6406	2,594.16	5,620.69	67,448.36
		STEP E	33.2279	49.8418	2,658.23	5,759.50	69,114.03
		STEP F	34.0485	51.0727	2,723.88	5,901.74	70,820.88
		STEP G	34.8893	52.3339	2,791.14	6,047.47	72,569.74
		STEP H	35.7509	53.6263	2,860.07	6,196.82	74,361.87
		STEP I	36.6338	54.9507	2,930.70	6,349.85	76,198.30
		STEP J	37.5385	56.3077	3,003.08	6,506.67	78,080.08
		STEP K	38.4655	57.6982	3,077.24	6,667.35	80,008.24
		STEP L	39.4155	59.1232	3,153.24	6,832.02	81,984.24
		STEP M	40.3888	60.5832	3,231.10	7,000.72	84,008.70
		STEP N	41.3863	62.0794	3,310.90	7,173.62	86,083.50
		STEP O	42.4083	63.6124	3,392.66	7,350.77	88,209.26
B469	IT PLANNING & POLICY TECH	STEP A	21.4856	32.2284	1,718.84	3,724.17	44,690.04
		STEP B	22.0159	33.0238	1,761.27	3,816.08	45,793.07
		STEP C	22.5596	33.8394	1,804.76	3,910.33	46,923.96
		STEP D	23.1167	34.6750	1,849.33	4,006.89	48,082.73
		STEP E	23.6876	35.5314	1,895.00	4,105.85	49,270.20
		STEP F	24.2725	36.4087	1,941.80	4,207.23	50,486.80
		STEP G	24.8720	37.3080	1,989.76	4,311.14	51,733.76
		STEP H	25.4862	38.2293	2,038.89	4,417.60	53,011.29
		STEP I	26.1156	39.1734	2,089.24	4,526.70	54,320.44
		STEP J	26.7605	40.1407	2,140.84	4,638.48	55,661.84
		STEP K	27.4214	41.1321	2,193.71	4,753.04	57,036.51
		STEP L	28.0986	42.1479	2,247.88	4,870.42	58,445.08
		STEP M	28.7925	43.1887	2,303.40	4,990.70	59,888.40
		STEP N	29.5035	44.2552	2,360.28	5,113.94	61,367.28
		STEP O	30.2321	45.3481	2,418.56	5,240.23	62,882.76
B470	IT TECHNICIAN I	STEP A	20.8834	31.3251	1,670.67	3,619.78	43,437.47
		STEP B	21.3990	32.0985	1,711.92	3,709.16	44,509.92
		STEP C	21.9275	32.8912	1,754.20	3,800.76	45,609.20
		STEP D	22.4690	33.7035	1,797.52	3,894.62	46,735.52
		STEP E	23.0238	34.5357	1,841.90	3,990.79	47,889.50
		STEP F	23.5924	35.3886	1,887.39	4,089.34	49,072.19
		STEP G	24.1751	36.2626	1,934.00	4,190.35	50,284.20
		STEP H	24.7721	37.1581	1,981.76	4,293.83	51,525.96
		STEP I	25.3838	38.0757	2,030.70	4,399.85	52,798.30
		STEP J	26.0107	39.0160	2,080.85	4,508.52	54,102.25
		STEP K	26.6530	39.9795	2,132.24	4,619.85	55,438.24
		STEP L	27.3112	40.9668	2,184.89	4,733.94	56,807.29
		STEP M	27.9857	41.9785	2,238.85	4,850.85	58,210.25
		STEP N	28.6768	43.0152	2,294.14	4,970.64	59,647.74
		STEP O	29.3850	44.0775	2,350.80	5,093.40	61,120.80

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B471	IT TECHNICIAN II	STEP A	22.9719	34.4578	1,837.75	3,981.79	47,781.55
		STEP B	23.5389	35.3083	1,883.11	4,080.07	48,960.91
		STEP C	24.1202	36.1803	1,929.61	4,180.83	50,170.01
		STEP D	24.7159	37.0738	1,977.27	4,284.08	51,409.07
		STEP E	25.3262	37.9893	2,026.09	4,389.87	52,678.49
		STEP F	25.9517	38.9275	2,076.13	4,498.29	53,979.53
		STEP G	26.5926	39.8889	2,127.40	4,609.38	55,312.60
		STEP H	27.2493	40.8739	2,179.94	4,723.21	56,678.54
		STEP I	27.9222	41.8833	2,233.77	4,839.84	58,078.17
		STEP J	28.6118	42.9177	2,288.94	4,959.37	59,512.54
		STEP K	29.3183	43.9774	2,345.46	5,081.83	60,982.06
		STEP L	30.0424	45.0636	2,403.39	5,207.34	62,488.19
		STEP M	30.7843	46.1764	2,462.74	5,335.94	64,031.34
		STEP N	31.5445	47.3167	2,523.56	5,467.71	65,612.56
		STEP O	32.3235	48.4852	2,585.88	5,602.74	67,232.88
B472	JR ENGINEER	STEP A	27.9568	41.9352	2,236.54	4,845.84	58,150.14
		STEP B	28.6474	42.9711	2,291.79	4,965.54	59,586.59
		STEP C	29.3548	44.0322	2,348.38	5,088.16	61,057.98
		STEP D	30.0797	45.1195	2,406.37	5,213.81	62,565.77
		STEP E	30.8226	46.2339	2,465.80	5,342.58	64,111.00
		STEP F	31.5837	47.3755	2,526.69	5,474.50	65,694.09
		STEP G	32.3637	48.5455	2,589.09	5,609.70	67,316.49
		STEP H	33.1630	49.7445	2,653.04	5,748.25	68,979.04
		STEP I	33.9819	50.9728	2,718.55	5,890.19	70,682.35
		STEP J	34.8211	52.2316	2,785.68	6,035.65	72,427.88
		STEP K	35.6810	53.5215	2,854.48	6,184.70	74,216.48
		STEP L	36.5622	54.8433	2,924.97	6,337.44	76,049.37
		STEP M	37.4651	56.1976	2,997.20	6,493.95	77,927.40
		STEP N	38.3903	57.5854	3,071.22	6,654.31	79,851.82
		STEP O	39.3384	59.0076	3,147.07	6,818.65	81,823.87
B473	LABORATORY TECHNICIAN I	STEP A	18.9491	28.4236	1,515.92	3,284.51	39,414.12
		STEP B	19.4172	29.1258	1,553.37	3,365.64	40,387.77
		STEP C	19.8967	29.8450	1,591.73	3,448.76	41,385.13
		STEP D	20.3881	30.5821	1,631.04	3,533.93	42,407.24
		STEP E	20.8916	31.3374	1,671.32	3,621.21	43,454.52
		STEP F	21.4075	32.1112	1,712.60	3,710.63	44,527.60
		STEP G	21.9362	32.9043	1,754.89	3,802.27	45,627.29
		STEP H	22.4779	33.7168	1,798.23	3,896.16	46,754.03
		STEP I	23.0330	34.5495	1,842.64	3,992.38	47,908.64
		STEP J	23.6018	35.4027	1,888.14	4,090.97	49,091.74
		STEP K	24.1846	36.2769	1,934.76	4,192.00	50,303.96
		STEP L	24.7819	37.1728	1,982.55	4,295.52	51,546.35
		STEP M	25.3939	38.0908	2,031.51	4,401.60	52,819.31
		STEP N	26.0210	39.0315	2,081.68	4,510.30	54,123.68
		STEP O	26.6636	39.9954	2,133.08	4,621.69	55,460.28

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B474	LABORATORY TECHNICIAN II						
		STEP A	21.0357	31.5535	1,682.85	3,646.18	43,754.25
		STEP B	21.5552	32.3328	1,724.41	3,736.23	44,834.81
		STEP C	22.0875	33.1312	1,767.00	3,828.50	45,942.00
		STEP D	22.6330	33.9495	1,810.64	3,923.05	47,076.64
		STEP E	23.1919	34.7878	1,855.35	4,019.92	48,239.15
		STEP F	23.7646	35.6469	1,901.16	4,119.19	49,430.36
		STEP G	24.3515	36.5272	1,948.12	4,220.92	50,651.12
		STEP H	24.9529	37.4293	1,996.23	4,325.16	51,902.03
		STEP I	25.5691	38.3536	2,045.52	4,431.97	53,183.72
		STEP J	26.2006	39.3009	2,096.04	4,541.43	54,497.24
		STEP K	26.8476	40.2714	2,147.80	4,653.58	55,843.00
		STEP L	27.5106	41.2659	2,200.84	4,768.50	57,222.04
		STEP M	28.1900	42.2850	2,255.20	4,886.26	58,635.20
		STEP N	28.8861	43.3291	2,310.88	5,006.92	60,083.08
		STEP O	29.5995	44.3992	2,367.96	5,130.58	61,566.96
B475	LIBRARIAN I						
		STEP A	20.5906	30.8859	1,647.24	3,569.03	42,828.44
		STEP B	21.0990	31.6485	1,687.92	3,657.16	43,885.92
		STEP C	21.6201	32.4301	1,729.60	3,747.48	44,969.80
		STEP D	22.1540	33.2310	1,772.32	3,840.02	46,080.32
		STEP E	22.7011	34.0516	1,816.08	3,934.85	47,218.28
		STEP F	23.2617	34.8925	1,860.93	4,032.02	48,384.33
		STEP G	23.8362	35.7543	1,906.89	4,131.60	49,579.29
		STEP H	24.4248	36.6372	1,953.98	4,233.63	50,803.58
		STEP I	25.0280	37.5420	2,002.24	4,338.18	52,058.24
		STEP J	25.6461	38.4691	2,051.68	4,445.32	53,343.88
		STEP K	26.2794	39.4191	2,102.35	4,555.09	54,661.15
		STEP L	26.9284	40.3926	2,154.27	4,667.58	56,011.07
		STEP M	27.5934	41.3901	2,207.47	4,782.85	57,394.27
		STEP N	28.2748	42.4122	2,261.98	4,900.96	58,811.58
		STEP O	28.9731	43.4596	2,317.84	5,022.00	60,264.04
B476	LIBRARIAN II						
		STEP A	22.6496	33.9744	1,811.96	3,925.93	47,111.16
		STEP B	23.2089	34.8133	1,856.71	4,022.87	48,274.51
		STEP C	23.7820	35.6730	1,902.56	4,122.21	49,466.56
		STEP D	24.3693	36.5539	1,949.54	4,224.01	50,688.14
		STEP E	24.9711	37.4566	1,997.68	4,328.32	51,939.88
		STEP F	25.5878	38.3817	2,047.02	4,435.21	53,222.62
		STEP G	26.2197	39.3295	2,097.57	4,544.74	54,536.97
		STEP H	26.8672	40.3008	2,149.37	4,656.98	55,883.77
		STEP I	27.5307	41.2960	2,202.45	4,771.98	57,263.85
		STEP J	28.2106	42.3159	2,256.84	4,889.83	58,678.04
		STEP K	28.9073	43.3609	2,312.58	5,010.59	60,127.18
		STEP L	29.6211	44.4316	2,369.68	5,134.32	61,611.88
		STEP M	30.3526	45.5289	2,428.20	5,261.11	63,133.40
		STEP N	31.1022	46.6533	2,488.17	5,391.04	64,692.57
		STEP O	31.8703	47.8054	2,549.62	5,524.18	66,290.22

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B477	LIBRARY ASSISTANT I	STEP A	16.0709	24.1063	1,285.67	2,785.62	33,427.47
		STEP B	16.4677	24.7015	1,317.41	2,854.40	34,252.81
		STEP C	16.8744	25.3116	1,349.95	2,924.89	35,098.75
		STEP D	17.2911	25.9366	1,383.28	2,997.12	35,965.48
		STEP E	17.7181	26.5771	1,417.44	3,071.13	36,853.64
		STEP F	18.1557	27.2335	1,452.45	3,146.98	37,763.85
		STEP G	18.6041	27.9061	1,488.32	3,224.71	38,696.52
		STEP H	19.0635	28.5952	1,525.08	3,304.34	39,652.08
		STEP I	19.5343	29.3014	1,562.74	3,385.94	40,631.34
		STEP J	20.0167	30.0250	1,601.33	3,469.56	41,634.73
		STEP K	20.5110	30.7665	1,640.88	3,555.24	42,662.88
		STEP L	21.0175	31.5262	1,681.40	3,643.03	43,716.40
		STEP M	21.5366	32.3049	1,722.92	3,733.01	44,796.12
		STEP N	22.0684	33.1026	1,765.47	3,825.18	45,902.27
		STEP O	22.6134	33.9201	1,809.07	3,919.65	47,035.87
B478	LIBRARY ASSISTANT II	STEP A	17.6780	26.5170	1,414.24	3,064.18	36,770.24
		STEP B	18.1145	27.1717	1,449.16	3,139.84	37,678.16
		STEP C	18.5619	27.8428	1,484.95	3,217.39	38,608.75
		STEP D	19.0203	28.5304	1,521.62	3,296.85	39,562.22
		STEP E	19.4900	29.2350	1,559.20	3,378.26	40,539.20
		STEP F	19.9713	29.9569	1,597.70	3,461.69	41,540.30
		STEP G	20.4645	30.6967	1,637.16	3,547.18	42,566.16
		STEP H	20.9699	31.4548	1,677.59	3,634.78	43,617.39
		STEP I	21.4877	32.2315	1,719.01	3,724.53	44,694.41
		STEP J	22.0184	33.0276	1,761.47	3,816.52	45,798.27
		STEP K	22.5621	33.8431	1,804.96	3,910.76	46,929.16
		STEP L	23.1193	34.6789	1,849.54	4,007.34	48,088.14
		STEP M	23.6903	35.5354	1,895.22	4,106.31	49,275.82
		STEP N	24.2753	36.4129	1,942.02	4,207.71	50,492.62
		STEP O	24.8748	37.3122	1,989.98	4,311.63	51,739.58
B479	LIBRARY TECHNICIAN	STEP A	20.1889	30.2833	1,615.11	3,499.40	41,992.91
		STEP B	20.6874	31.0311	1,654.99	3,585.81	43,029.79
		STEP C	21.1983	31.7974	1,695.86	3,674.37	44,092.46
		STEP D	21.7218	32.5827	1,737.74	3,765.11	45,181.34
		STEP E	22.2583	33.3874	1,780.66	3,858.10	46,297.26
		STEP F	22.8079	34.2118	1,824.63	3,953.36	47,440.43
		STEP G	23.3712	35.0568	1,869.69	4,051.00	48,612.09
		STEP H	23.9484	35.9226	1,915.87	4,151.05	49,812.67
		STEP I	24.5398	36.8097	1,963.18	4,253.56	51,042.78
		STEP J	25.1458	37.7187	2,011.66	4,358.60	52,303.26
		STEP K	25.7668	38.6502	2,061.34	4,466.24	53,594.94
		STEP L	26.4031	39.6046	2,112.24	4,576.53	54,918.44
		STEP M	27.0551	40.5826	2,164.40	4,689.55	56,274.60
		STEP N	27.7233	41.5849	2,217.86	4,805.37	57,664.46
		STEP O	28.4079	42.6118	2,272.63	4,924.03	59,088.43

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B481	MARKETING & COMMUNIC ANALYST I						
		STEP A	23.2339	34.8508	1,858.71	4,027.20	48,326.51
		STEP B	23.8075	35.7112	1,904.60	4,126.63	49,519.60
		STEP C	24.3954	36.5931	1,951.63	4,228.53	50,742.43
		STEP D	24.9979	37.4968	1,999.83	4,332.96	51,995.63
		STEP E	25.6152	38.4228	2,049.21	4,439.96	53,279.61
		STEP F	26.2478	39.3717	2,099.82	4,549.61	54,595.42
		STEP G	26.8960	40.3440	2,151.68	4,661.97	55,943.68
		STEP H	27.5602	41.3403	2,204.81	4,777.10	57,325.21
		STEP I	28.2408	42.3612	2,259.26	4,895.07	58,740.86
		STEP J	28.9382	43.4073	2,315.05	5,015.95	60,191.45
		STEP K	29.6528	44.4792	2,372.22	5,139.81	61,677.82
		STEP L	30.3851	45.5776	2,430.80	5,266.75	63,201.00
		STEP M	31.1355	46.7032	2,490.84	5,396.82	64,761.84
		STEP N	31.9044	47.8566	2,552.35	5,530.09	66,361.15
		STEP O	32.6923	49.0384	2,615.38	5,666.66	67,999.98
B480	MARKETING & COMMUNIC ANALYST II						
		STEP A	25.5570	38.3355	2,044.56	4,429.88	53,158.56
		STEP B	26.1882	39.2823	2,095.05	4,539.28	54,471.45
		STEP C	26.8349	40.2523	2,146.79	4,651.38	55,816.59
		STEP D	27.4976	41.2464	2,199.80	4,766.25	57,195.00
		STEP E	28.1767	42.2650	2,254.13	4,883.96	58,607.53
		STEP F	28.8725	43.3087	2,309.80	5,004.56	60,054.80
		STEP G	29.5855	44.3782	2,366.84	5,128.15	61,537.84
		STEP H	30.3162	45.4743	2,425.29	5,254.80	63,057.69
		STEP I	31.0648	46.5972	2,485.18	5,384.56	64,614.78
		STEP J	31.8320	47.7480	2,546.56	5,517.54	66,210.56
		STEP K	32.6181	48.9271	2,609.44	5,653.80	67,845.64
		STEP L	33.4236	50.1354	2,673.88	5,793.42	69,521.08
		STEP M	34.2490	51.3735	2,739.92	5,936.49	71,237.92
		STEP N	35.0948	52.6422	2,807.58	6,083.09	72,997.18
		STEP O	35.9615	53.9422	2,876.92	6,233.32	74,799.92
B482	MECHANIC I						
		STEP A	21.5375	32.3062	1,723.00	3,733.16	44,798.00
		STEP B	22.0693	33.1039	1,765.54	3,825.34	45,904.14
		STEP C	22.6143	33.9214	1,809.14	3,919.81	47,037.74
		STEP D	23.1728	34.7592	1,853.82	4,016.61	48,199.42
		STEP E	23.7451	35.6176	1,899.60	4,115.81	49,389.80
		STEP F	24.3315	36.4972	1,946.52	4,217.46	50,609.52
		STEP G	24.9323	37.3984	1,994.58	4,321.59	51,859.18
		STEP H	25.5481	38.3221	2,043.84	4,428.33	53,140.04
		STEP I	26.1790	39.2685	2,094.32	4,537.69	54,452.32
		STEP J	26.8255	40.2382	2,146.04	4,649.75	55,797.04
		STEP K	27.4879	41.2318	2,199.03	4,764.56	57,174.83
		STEP L	28.1668	42.2502	2,253.34	4,882.24	58,586.94
		STEP M	28.8624	43.2936	2,308.99	5,002.81	60,033.79
		STEP N	29.5751	44.3626	2,366.00	5,126.35	61,516.20
		STEP O	30.3055	45.4582	2,424.44	5,252.95	63,035.44

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B483	MECHANIC II	STEP A	23.6913	35.5369	1,895.30	4,106.49	49,277.90
		STEP B	24.2767	36.4150	1,942.13	4,207.96	50,495.53
		STEP C	24.8763	37.3144	1,990.10	4,311.89	51,742.70
		STEP D	25.4906	38.2359	2,039.24	4,418.37	53,020.44
		STEP E	26.1201	39.1801	2,089.60	4,527.48	54,329.80
		STEP F	26.7651	40.1476	2,141.20	4,639.28	55,671.40
		STEP G	27.4261	41.1391	2,194.08	4,753.85	57,046.28
		STEP H	28.1034	42.1551	2,248.27	4,871.25	58,455.07
		STEP I	28.7974	43.1961	2,303.79	4,991.54	59,898.59
		STEP J	29.5086	44.2629	2,360.68	5,114.82	61,377.88
		STEP K	30.2373	45.3559	2,418.98	5,241.13	62,893.58
		STEP L	30.9841	46.4761	2,478.72	5,370.57	64,446.92
		STEP M	31.7492	47.6238	2,539.93	5,503.19	66,038.33
		STEP N	32.5333	48.7999	2,602.66	5,639.10	67,669.26
		STEP O	33.3367	50.0050	2,666.93	5,778.36	69,340.33
B484	METER READER	STEP A	17.6607	26.4910	1,412.85	3,061.18	36,734.25
		STEP B	18.0968	27.1452	1,447.74	3,136.77	37,641.34
		STEP C	18.5438	27.8157	1,483.50	3,214.25	38,571.10
		STEP D	19.0017	28.5025	1,520.13	3,293.62	39,523.53
		STEP E	19.4710	29.2065	1,557.68	3,374.97	40,499.68
		STEP F	19.9518	29.9277	1,596.14	3,458.31	41,499.74
		STEP G	20.4445	30.6667	1,635.56	3,543.71	42,524.56
		STEP H	20.9494	31.4241	1,675.95	3,631.22	43,574.75
		STEP I	21.4668	32.2002	1,717.34	3,720.91	44,650.94
		STEP J	21.9969	32.9953	1,759.75	3,812.79	45,753.55
		STEP K	22.5401	33.8101	1,803.20	3,906.95	46,883.40
		STEP L	23.0967	34.6450	1,847.73	4,003.42	48,041.13
		STEP M	23.6671	35.5006	1,893.36	4,102.29	49,227.56
		STEP N	24.2516	36.3774	1,940.12	4,203.61	50,443.32
		STEP O	24.8505	37.2757	1,988.04	4,307.42	51,689.04
B485	METER SERVICE WORKER	STEP A	18.5410	27.8115	1,483.28	3,213.77	38,565.28
		STEP B	18.9988	28.4982	1,519.90	3,293.12	39,517.50
		STEP C	19.4680	29.2020	1,557.44	3,374.45	40,493.44
		STEP D	19.9488	29.9232	1,595.90	3,457.79	41,493.50
		STEP E	20.4414	30.6621	1,635.31	3,543.17	42,518.11
		STEP F	20.9462	31.4193	1,675.69	3,630.67	43,568.09
		STEP G	21.4635	32.1952	1,717.08	3,720.34	44,644.08
		STEP H	21.9936	32.9904	1,759.48	3,812.22	45,746.68
		STEP I	22.5367	33.8050	1,802.93	3,906.36	46,876.33
		STEP J	23.0933	34.6399	1,847.46	4,002.83	48,034.06
		STEP K	23.6636	35.4954	1,893.08	4,101.69	49,220.28
		STEP L	24.2479	36.3718	1,939.83	4,202.96	50,435.63
		STEP M	24.8467	37.2700	1,987.73	4,306.76	51,681.13
		STEP N	25.4603	38.1904	2,036.82	4,413.11	52,957.42
		STEP O	26.0891	39.1336	2,087.12	4,522.11	54,265.32

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B486	NATURAL RESOURCES TECHNICIAN						
		STEP A	21.8607	32.7910	1,748.85	3,789.18	45,470.25
		STEP B	22.4005	33.6007	1,792.04	3,882.75	46,593.04
		STEP C	22.9537	34.4305	1,836.29	3,978.64	47,743.69
		STEP D	23.5206	35.2809	1,881.64	4,076.90	48,922.84
		STEP E	24.1014	36.1521	1,928.11	4,177.57	50,130.91
		STEP F	24.6966	37.0449	1,975.72	4,280.74	51,368.92
		STEP G	25.3065	37.9597	2,024.52	4,386.46	52,637.52
		STEP H	25.9315	38.8972	2,074.52	4,494.79	53,937.52
		STEP I	26.5719	39.8578	2,125.75	4,605.79	55,269.55
		STEP J	27.2281	40.8421	2,178.24	4,719.53	56,634.44
		STEP K	27.9005	41.8507	2,232.04	4,836.08	58,033.04
		STEP L	28.5895	42.8842	2,287.16	4,955.51	59,466.16
		STEP M	29.2955	43.9432	2,343.64	5,077.88	60,934.64
		STEP N	30.0190	45.0285	2,401.52	5,203.29	62,439.52
		STEP O	30.7603	46.1404	2,460.82	5,331.78	63,981.42
B487	NATURAL RESOURCES WKR I						
		STEP A	18.2400	27.3600	1,459.20	3,161.60	37,939.20
		STEP B	18.6904	28.0356	1,495.23	3,239.66	38,876.03
		STEP C	19.1520	28.7280	1,532.16	3,319.68	39,836.16
		STEP D	19.6250	29.4375	1,570.00	3,401.66	40,820.00
		STEP E	20.1096	30.1644	1,608.76	3,485.66	41,827.96
		STEP F	20.6062	30.9093	1,648.49	3,571.74	42,860.89
		STEP G	21.1151	31.6726	1,689.20	3,659.95	43,919.40
		STEP H	21.6365	32.4547	1,730.92	3,750.32	45,003.92
		STEP I	22.1709	33.2563	1,773.67	3,842.95	46,115.47
		STEP J	22.7184	34.0776	1,817.47	3,937.85	47,254.27
		STEP K	23.2794	34.9191	1,862.35	4,035.09	48,421.15
		STEP L	23.8543	35.7814	1,908.34	4,134.74	49,616.94
		STEP M	24.4434	36.6651	1,955.47	4,236.85	50,842.27
		STEP N	25.0471	37.5706	2,003.76	4,341.49	52,097.96
		STEP O	25.6656	38.4984	2,053.24	4,448.70	53,384.44
B488	NATURAL RESOURCES WKR II						
		STEP A	20.0642	30.0963	1,605.13	3,477.79	41,733.53
		STEP B	20.5596	30.8394	1,644.76	3,563.66	42,763.96
		STEP C	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP D	21.5876	32.3814	1,727.00	3,741.85	44,902.20
		STEP E	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP F	22.6670	34.0005	1,813.36	3,928.94	47,147.36
		STEP G	23.2268	34.8402	1,858.14	4,025.97	48,311.74
		STEP H	23.8004	35.7006	1,904.03	4,125.40	49,504.83
		STEP I	24.3882	36.5823	1,951.05	4,227.28	50,727.45
		STEP J	24.9904	37.4856	1,999.23	4,331.66	51,980.03
		STEP K	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP L	26.2400	39.3600	2,099.20	4,548.26	54,579.20
		STEP M	26.8880	40.3320	2,151.04	4,660.58	55,927.04
		STEP N	27.5520	41.3280	2,204.16	4,775.68	57,308.16
		STEP O	28.2324	42.3486	2,258.59	4,893.61	58,723.39

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B489	OFFICE ASSISTANT I	STEP A	15.4152	23.1228	1,233.21	2,671.96	32,063.61
		STEP B	15.7958	23.6937	1,263.66	2,737.93	32,855.26
		STEP C	16.1859	24.2788	1,294.87	2,805.55	33,666.67
		STEP D	16.5856	24.8784	1,326.84	2,874.83	34,498.04
		STEP E	16.9952	25.4928	1,359.61	2,945.83	35,350.01
		STEP F	17.4149	26.1223	1,393.19	3,018.58	36,222.99
		STEP G	17.8449	26.7673	1,427.59	3,093.11	37,117.39
		STEP H	18.2856	27.4284	1,462.84	3,169.50	38,034.04
		STEP I	18.7372	28.1058	1,498.97	3,247.78	38,973.37
		STEP J	19.1999	28.7998	1,535.99	3,327.98	39,935.79
		STEP K	19.6741	29.5111	1,573.92	3,410.17	40,922.12
		STEP L	20.1599	30.2398	1,612.79	3,494.38	41,932.59
		STEP M	20.6578	30.9867	1,652.62	3,580.68	42,968.22
		STEP N	21.1679	31.7518	1,693.43	3,669.10	44,029.23
		STEP O	21.6907	32.5360	1,735.25	3,759.72	45,116.65
B490	OFFICE ASSISTANT II	STEP A	16.9566	25.4349	1,356.52	2,939.14	35,269.72
		STEP B	17.3753	26.0629	1,390.02	3,011.71	36,140.62
		STEP C	17.8044	26.7066	1,424.35	3,086.09	37,033.15
		STEP D	18.2441	27.3661	1,459.52	3,162.31	37,947.72
		STEP E	18.6946	28.0419	1,495.56	3,240.39	38,884.76
		STEP F	19.1563	28.7344	1,532.50	3,320.42	39,845.10
		STEP G	19.6294	29.4441	1,570.35	3,402.42	40,829.15
		STEP H	20.1141	30.1711	1,609.12	3,486.44	41,837.32
		STEP I	20.6109	30.9163	1,648.87	3,572.55	42,870.67
		STEP J	21.1199	31.6798	1,689.59	3,660.78	43,929.39
		STEP K	21.6414	32.4621	1,731.31	3,751.17	45,014.11
		STEP L	22.1759	33.2638	1,774.07	3,843.82	46,125.87
		STEP M	22.7235	34.0852	1,817.88	3,938.74	47,264.88
		STEP N	23.2847	34.9270	1,862.77	4,036.01	48,432.17
		STEP O	23.8597	35.7895	1,908.77	4,135.68	49,628.17
B491	PARKS MAINTENANCE WORKER I	STEP A	17.3715	26.0572	1,389.72	3,011.06	36,132.72
		STEP B	17.8005	26.7007	1,424.04	3,085.42	37,025.04
		STEP C	18.2400	27.3600	1,459.20	3,161.60	37,939.20
		STEP D	18.6905	28.0357	1,495.24	3,239.68	38,876.24
		STEP E	19.1521	28.7281	1,532.16	3,319.69	39,836.36
		STEP F	19.6250	29.4375	1,570.00	3,401.66	40,820.00
		STEP G	20.1097	30.1645	1,608.77	3,485.68	41,828.17
		STEP H	20.6063	30.9094	1,648.50	3,571.75	42,861.10
		STEP I	21.1152	31.6728	1,689.21	3,659.96	43,919.61
		STEP J	21.6366	32.4549	1,730.92	3,750.34	45,004.12
		STEP K	22.1709	33.2563	1,773.67	3,842.95	46,115.47
		STEP L	22.7185	34.0777	1,817.48	3,937.87	47,254.48
		STEP M	23.2795	34.9192	1,862.36	4,035.11	48,421.36
		STEP N	23.8544	35.7816	1,908.35	4,134.76	49,617.15
		STEP O	24.4435	36.6652	1,955.48	4,236.87	50,842.48

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B492	PARKS MAINTENANCE WORKER II	STEP A	19.1087	28.6630	1,528.69	3,312.17	39,746.09
		STEP B	19.5806	29.3709	1,566.44	3,393.97	40,727.64
		STEP C	20.0642	30.0963	1,605.13	3,477.79	41,733.53
		STEP D	20.5597	30.8395	1,644.77	3,563.68	42,764.17
		STEP E	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP F	21.5877	32.3815	1,727.01	3,741.86	44,902.41
		STEP G	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP H	22.6670	34.0005	1,813.36	3,928.94	47,147.36
		STEP I	23.2268	34.8402	1,858.14	4,025.97	48,311.74
		STEP J	23.8004	35.7006	1,904.03	4,125.40	49,504.83
		STEP K	24.3882	36.5823	1,951.05	4,227.28	50,727.45
		STEP L	24.9905	37.4857	1,999.24	4,331.68	51,980.24
		STEP M	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP N	26.2400	39.3600	2,099.20	4,548.26	54,579.20
		STEP O	26.8880	40.3320	2,151.04	4,660.58	55,927.04
B493	PARKS, REC & LIBRARIES TECH	STEP A	22.1529	33.2293	1,772.23	3,839.83	46,078.03
		STEP B	22.7000	34.0500	1,816.00	3,934.66	47,216.00
		STEP C	23.2606	34.8909	1,860.84	4,031.83	48,382.04
		STEP D	23.8350	35.7525	1,906.80	4,131.40	49,576.80
		STEP E	24.4236	36.6354	1,953.88	4,233.42	50,801.08
		STEP F	25.0268	37.5402	2,002.14	4,337.97	52,055.74
		STEP G	25.6448	38.4672	2,051.58	4,445.09	53,341.18
		STEP H	26.2781	39.4171	2,102.24	4,554.87	54,658.44
		STEP I	26.9271	40.3906	2,154.16	4,667.36	56,008.36
		STEP J	27.5920	41.3880	2,207.36	4,782.61	57,391.36
		STEP K	28.2734	42.4101	2,261.87	4,900.72	58,808.67
		STEP L	28.9717	43.4575	2,317.73	5,021.76	60,261.13
		STEP M	29.6871	44.5306	2,374.96	5,145.76	61,749.16
		STEP N	30.4203	45.6304	2,433.62	5,272.85	63,274.22
		STEP O	31.1715	46.7572	2,493.72	5,403.06	64,836.72
B546	PERMIT ANALYST	STEP A	30.3640	45.5460	2,429.12	5,263.09	63,157.12
		STEP B	31.1135	46.6702	2,489.08	5,393.00	64,716.08
		STEP C	31.8819	47.8228	2,550.55	5,526.19	66,314.35
		STEP D	32.6692	49.0038	2,613.53	5,662.66	67,951.93
		STEP E	33.4760	50.2140	2,678.08	5,802.50	69,630.08
		STEP F	34.3027	51.4540	2,744.21	5,945.80	71,349.61
		STEP G	35.1498	52.7247	2,811.98	6,092.63	73,111.58
		STEP H	36.0178	54.0267	2,881.42	6,243.08	74,917.02
		STEP I	36.9073	55.3609	2,952.58	6,397.26	76,767.18
		STEP J	37.8187	56.7280	3,025.49	6,555.24	78,662.89
		STEP K	38.7527	58.1290	3,100.21	6,717.13	80,605.61
		STEP L	39.7097	59.5645	3,176.77	6,883.01	82,596.17
		STEP M	40.6904	61.0356	3,255.23	7,053.00	84,636.03
		STEP N	41.6952	62.5428	3,335.61	7,227.16	86,726.01
		STEP O	42.7249	64.0873	3,417.99	7,405.64	88,867.79

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B494	PERMITS TECHNICIAN I	STEP A	19.6549	29.4823	1,572.39	3,406.84	40,882.19
		STEP B	20.1403	30.2104	1,611.22	3,490.98	41,891.82
		STEP C	20.6376	30.9564	1,651.00	3,577.18	42,926.20
		STEP D	21.1473	31.7209	1,691.78	3,665.53	43,986.38
		STEP E	21.6695	32.5042	1,733.56	3,756.04	45,072.56
		STEP F	22.2047	33.3070	1,776.37	3,848.81	46,185.77
		STEP G	22.7530	34.1295	1,820.24	3,943.85	47,326.24
		STEP H	23.3149	34.9723	1,865.19	4,041.24	48,494.99
		STEP I	23.8907	35.8360	1,911.25	4,141.05	49,692.65
		STEP J	24.4807	36.7210	1,958.45	4,243.32	50,919.85
		STEP K	25.0852	37.6278	2,006.81	4,348.10	52,177.21
		STEP L	25.7047	38.5570	2,056.37	4,455.48	53,465.77
		STEP M	26.3395	39.5092	2,107.16	4,565.51	54,786.16
		STEP N	26.9900	40.4850	2,159.20	4,678.26	56,139.20
		STEP O	27.6565	41.4847	2,212.52	4,793.79	57,525.52
B495	PERMITS TECHNICIAN II	STEP A	21.6204	32.4306	1,729.63	3,747.53	44,970.43
		STEP B	22.1543	33.2314	1,772.34	3,840.07	46,080.94
		STEP C	22.7014	34.0521	1,816.11	3,934.90	47,218.91
		STEP D	23.2620	34.8930	1,860.96	4,032.08	48,384.96
		STEP E	23.8365	35.7547	1,906.92	4,131.66	49,579.92
		STEP F	24.4252	36.6378	1,954.01	4,233.70	50,804.41
		STEP G	25.0284	37.5426	2,002.27	4,338.25	52,059.07
		STEP H	25.6464	38.4696	2,051.71	4,445.37	53,344.51
		STEP I	26.2798	39.4197	2,102.38	4,555.16	54,661.98
		STEP J	26.9288	40.3932	2,154.30	4,667.65	56,011.90
		STEP K	27.5938	41.3907	2,207.50	4,782.92	57,395.10
		STEP L	28.2752	42.4128	2,262.01	4,901.03	58,812.41
		STEP M	28.9735	43.4602	2,317.88	5,022.07	60,264.88
		STEP N	29.6980	44.5470	2,375.84	5,147.65	61,771.84
		STEP O	30.4222	45.6333	2,433.77	5,273.18	63,278.17
B496	PLANNING SYSTEMS ANALYST	STEP A	30.3640	45.5460	2,429.12	5,263.09	63,157.12
		STEP B	31.1135	46.6702	2,489.08	5,393.00	64,716.08
		STEP C	31.8819	47.8228	2,550.55	5,526.19	66,314.35
		STEP D	32.6692	49.0038	2,613.53	5,662.66	67,951.93
		STEP E	33.4760	50.2140	2,678.08	5,802.50	69,630.08
		STEP F	34.3027	51.4540	2,744.21	5,945.80	71,349.61
		STEP G	35.1498	52.7247	2,811.98	6,092.63	73,111.58
		STEP H	36.0178	54.0267	2,881.42	6,243.08	74,917.02
		STEP I	36.9073	55.3609	2,952.58	6,397.26	76,767.18
		STEP J	37.8187	56.7280	3,025.49	6,555.24	78,662.89
		STEP K	38.7527	58.1290	3,100.21	6,717.13	80,605.61
		STEP L	39.7097	59.5645	3,176.77	6,883.01	82,596.17
		STEP M	40.6904	61.0356	3,255.23	7,053.00	84,636.03
		STEP N	41.6952	62.5428	3,335.61	7,227.16	86,726.01
		STEP O	42.7249	64.0873	3,417.99	7,405.64	88,867.79

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B497	PLANNING SYSTEMS TECHNICIAN I	STEP A	20.0599	30.0898	1,604.79	3,477.04	41,724.59
		STEP B	20.5553	30.8329	1,644.42	3,562.91	42,755.02
		STEP C	21.0629	31.5943	1,685.03	3,650.90	43,810.83
		STEP D	21.5831	32.3746	1,726.64	3,741.07	44,892.84
		STEP E	22.1161	33.1741	1,769.28	3,833.45	46,001.48
		STEP F	22.6622	33.9933	1,812.97	3,928.11	47,137.37
		STEP G	23.2219	34.8328	1,857.75	4,025.12	48,301.55
		STEP H	23.7953	35.6929	1,903.62	4,124.51	49,494.22
		STEP I	24.3830	36.5745	1,950.64	4,226.38	50,716.64
		STEP J	24.9851	37.4776	1,998.80	4,330.75	51,969.00
		STEP K	25.6021	38.4031	2,048.16	4,437.69	53,252.36
		STEP L	26.2344	39.3516	2,098.75	4,547.29	54,567.55
		STEP M	26.8823	40.3234	2,150.58	4,659.59	55,915.18
		STEP N	27.5461	41.3191	2,203.68	4,774.65	57,295.88
		STEP O	28.2264	42.3396	2,258.11	4,892.57	58,710.91
B498	PLANNING SYSTEMS TECHNICIAN II	STEP A	22.0658	33.0987	1,765.26	3,824.73	45,896.86
		STEP B	22.6107	33.9160	1,808.85	3,919.18	47,030.25
		STEP C	23.1691	34.7536	1,853.52	4,015.97	48,191.72
		STEP D	23.7412	35.6118	1,899.29	4,115.14	49,381.69
		STEP E	24.3275	36.4912	1,946.20	4,216.76	50,601.20
		STEP F	24.9283	37.3924	1,994.26	4,320.90	51,850.86
		STEP G	25.5439	38.3158	2,043.51	4,427.60	53,131.31
		STEP H	26.1748	39.2622	2,093.98	4,536.96	54,443.58
		STEP I	26.8212	40.2318	2,145.69	4,649.00	55,788.09
		STEP J	27.4835	41.2252	2,198.68	4,763.80	57,165.68
		STEP K	28.1622	42.2433	2,252.97	4,881.44	58,577.37
		STEP L	28.8577	43.2865	2,308.61	5,002.00	60,024.01
		STEP M	29.5704	44.3556	2,365.63	5,125.53	61,506.43
		STEP N	30.3006	45.4509	2,424.04	5,252.10	63,025.24
		STEP O	31.0489	46.5733	2,483.91	5,381.80	64,581.71
B499	PROJECT COORDINATOR	STEP A	27.1835	40.7752	2,174.68	4,711.80	56,541.68
		STEP B	27.8546	41.7819	2,228.36	4,828.13	57,937.56
		STEP C	28.5425	42.8137	2,283.40	4,947.36	59,368.40
		STEP D	29.2473	43.8709	2,339.78	5,069.53	60,834.38
		STEP E	29.9696	44.9544	2,397.56	5,194.73	62,336.76
		STEP F	30.7097	46.0645	2,456.77	5,323.01	63,876.17
		STEP G	31.4681	47.2021	2,517.44	5,454.47	65,453.64
		STEP H	32.2452	48.3678	2,579.61	5,589.16	67,070.01
		STEP I	33.0416	49.5624	2,643.32	5,727.21	68,726.52
		STEP J	33.8575	50.7862	2,708.60	5,868.63	70,423.60
		STEP K	34.6937	52.0405	2,775.49	6,013.57	72,162.89
		STEP L	35.5504	53.3256	2,844.03	6,162.06	73,944.83
		STEP M	36.4284	54.6426	2,914.27	6,314.25	75,771.07
		STEP N	37.3280	55.9920	2,986.24	6,470.18	77,642.24
		STEP O	38.2498	57.3747	3,059.98	6,629.96	79,559.58

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B500	PROJECT PLANNER	STEP A	33.3995	50.0992	2,671.96	5,789.24	69,470.96
		STEP B	34.2241	51.3361	2,737.92	5,932.17	71,186.12
		STEP C	35.0692	52.6038	2,805.53	6,078.66	72,943.93
		STEP D	35.9353	53.9029	2,874.82	6,228.78	74,745.42
		STEP E	36.8227	55.2340	2,945.81	6,382.60	76,591.21
		STEP F	37.7321	56.5981	3,018.56	6,540.23	78,482.76
		STEP G	38.6639	57.9958	3,093.11	6,701.74	80,420.91
		STEP H	39.6187	59.4280	3,169.49	6,867.24	82,406.89
		STEP I	40.5971	60.8956	3,247.76	7,036.83	84,441.96
		STEP J	41.5997	62.3995	3,327.97	7,210.61	86,527.37
		STEP K	42.6270	63.9405	3,410.16	7,388.68	88,664.16
		STEP L	43.6797	65.5195	3,494.37	7,571.14	90,853.77
		STEP M	44.7584	67.1376	3,580.67	7,758.12	93,097.47
		STEP N	45.8637	68.7955	3,669.09	7,949.70	95,396.49
		STEP O	46.9963	70.4944	3,759.70	8,146.02	97,752.30
B501	RECREATION COORDINATOR I	STEP A	19.6833	29.5249	1,574.66	3,411.77	40,941.26
		STEP B	20.1692	30.2538	1,613.53	3,495.99	41,951.93
		STEP C	20.6673	31.0009	1,653.38	3,582.33	42,987.98
		STEP D	21.1777	31.7665	1,694.21	3,670.80	44,049.61
		STEP E	21.7007	32.5510	1,736.05	3,761.45	45,137.45
		STEP F	22.2366	33.3549	1,778.92	3,854.34	46,252.12
		STEP G	22.7858	34.1787	1,822.86	3,949.53	47,394.46
		STEP H	23.3485	35.0227	1,867.88	4,047.07	48,564.88
		STEP I	23.9251	35.8876	1,914.00	4,147.01	49,764.20
		STEP J	24.5159	36.7738	1,961.27	4,249.42	50,993.07
		STEP K	25.1213	37.6819	2,009.70	4,354.35	52,252.30
		STEP L	25.7417	38.6125	2,059.33	4,461.89	53,542.73
		STEP M	26.3774	39.5661	2,110.19	4,572.08	54,864.99
		STEP N	27.0288	40.5432	2,162.30	4,684.99	56,219.90
		STEP O	27.6963	41.5444	2,215.70	4,800.69	57,608.30
B502	RECREATION COORDINATOR II	STEP A	21.6515	32.4772	1,732.12	3,752.92	45,035.12
		STEP B	22.1861	33.2791	1,774.88	3,845.59	46,147.08
		STEP C	22.7340	34.1010	1,818.72	3,940.56	47,286.72
		STEP D	23.2955	34.9432	1,863.64	4,037.88	48,454.64
		STEP E	23.8708	35.8062	1,909.66	4,137.60	49,651.26
		STEP F	24.4603	36.6904	1,956.82	4,239.78	50,877.42
		STEP G	25.0643	37.5964	2,005.14	4,344.47	52,133.74
		STEP H	25.6833	38.5249	2,054.66	4,451.77	53,421.26
		STEP I	26.3175	39.4762	2,105.40	4,561.70	54,740.40
		STEP J	26.9675	40.4512	2,157.40	4,674.36	56,092.40
		STEP K	27.6334	41.4501	2,210.67	4,789.78	57,477.47
		STEP L	28.3159	42.4738	2,265.27	4,908.08	58,897.07
		STEP M	29.0151	43.5226	2,321.20	5,029.28	60,351.40
		STEP N	29.7317	44.5975	2,378.53	5,153.49	61,841.93
		STEP O	30.4659	45.6988	2,437.27	5,280.75	63,369.07

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B503	REFUSE MAINTENANCE WORKER I	STEP A	15.4607	23.1910	1,236.85	2,679.85	32,158.25
		STEP B	15.8425	23.7637	1,267.40	2,746.03	32,952.40
		STEP C	16.2338	24.3507	1,298.70	2,813.85	33,766.30
		STEP D	16.6347	24.9520	1,330.77	2,883.34	34,600.17
		STEP E	17.0455	25.5682	1,363.64	2,954.55	35,454.64
		STEP F	17.4664	26.1996	1,397.31	3,027.50	36,330.11
		STEP G	17.8978	26.8467	1,431.82	3,102.28	37,227.42
		STEP H	18.3398	27.5097	1,467.18	3,178.89	38,146.78
		STEP I	18.7927	28.1890	1,503.41	3,257.40	39,088.81
		STEP J	19.2568	28.8852	1,540.54	3,337.84	40,054.14
		STEP K	19.7323	29.5984	1,578.58	3,420.26	41,043.18
		STEP L	20.2196	30.3294	1,617.56	3,504.73	42,056.76
		STEP M	20.7189	31.0783	1,657.51	3,591.27	43,095.31
		STEP N	21.2306	31.8459	1,698.44	3,679.97	44,159.64
		STEP O	21.7549	32.6323	1,740.39	3,770.84	45,250.19
B504	REFUSE MAINTENANCE WORKER II	STEP A	16.6144	24.9216	1,329.15	2,879.82	34,557.95
		STEP B	17.0247	25.5370	1,361.97	2,950.94	35,411.37
		STEP C	17.4452	26.1678	1,395.61	3,023.83	36,286.01
		STEP D	17.8760	26.8140	1,430.08	3,098.50	37,182.08
		STEP E	18.3175	27.4762	1,465.40	3,175.03	38,100.40
		STEP F	18.7698	28.1547	1,501.58	3,253.43	39,041.18
		STEP G	19.2333	28.8499	1,538.66	3,333.77	40,005.26
		STEP H	19.7083	29.5624	1,576.66	3,416.10	40,993.26
		STEP I	20.1950	30.2925	1,615.60	3,500.46	42,005.60
		STEP J	20.6937	31.0405	1,655.49	3,586.90	43,042.89
		STEP K	21.2048	31.8072	1,696.38	3,675.49	44,105.98
		STEP L	21.7284	32.5926	1,738.27	3,766.25	45,195.07
		STEP M	22.2650	33.3975	1,781.20	3,859.26	46,311.20
		STEP N	22.8149	34.2223	1,825.19	3,954.58	47,454.99
		STEP O	23.3783	35.0674	1,870.26	4,052.23	48,626.86
B505	REFUSE TRUCK DRIVER I	STEP A	17.9684	26.9526	1,437.47	3,114.52	37,374.27
		STEP B	18.4121	27.6181	1,472.96	3,191.43	38,297.16
		STEP C	18.8668	28.3002	1,509.34	3,270.24	39,242.94
		STEP D	19.3327	28.9990	1,546.61	3,351.00	40,212.01
		STEP E	19.8101	29.7151	1,584.80	3,433.75	41,205.00
		STEP F	20.2994	30.4491	1,623.95	3,518.56	42,222.75
		STEP G	20.8007	31.2010	1,664.05	3,605.45	43,265.45
		STEP H	21.3143	31.9714	1,705.14	3,694.47	44,333.74
		STEP I	21.8407	32.7610	1,747.25	3,785.72	45,428.65
		STEP J	22.3801	33.5701	1,790.40	3,879.21	46,550.60
		STEP K	22.9328	34.3992	1,834.62	3,975.01	47,700.22
		STEP L	23.4991	35.2486	1,879.92	4,073.17	48,878.12
		STEP M	24.0794	36.1191	1,926.35	4,173.76	50,085.15
		STEP N	24.6741	37.0111	1,973.92	4,276.84	51,322.12
		STEP O	25.2834	37.9251	2,022.67	4,382.45	52,589.47

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B506	REFUSE TRUCK DRIVER II						
		STEP A	19.6896	29.5344	1,575.16	3,412.86	40,954.36
		STEP B	20.1759	30.2638	1,614.07	3,497.15	41,965.87
		STEP C	20.6741	31.0111	1,653.92	3,583.51	43,002.12
		STEP D	21.1847	31.7770	1,694.77	3,672.01	44,064.17
		STEP E	21.7078	32.5617	1,736.62	3,762.68	45,152.22
		STEP F	22.2439	33.3658	1,779.51	3,855.60	46,267.31
		STEP G	22.7932	34.1898	1,823.45	3,950.82	47,409.85
		STEP H	23.3561	35.0341	1,868.48	4,048.39	48,580.68
		STEP I	23.9329	35.8993	1,914.63	4,148.36	49,780.43
		STEP J	24.5240	36.7860	1,961.92	4,250.82	51,009.92
		STEP K	25.1296	37.6944	2,010.36	4,355.79	52,269.56
		STEP L	25.7502	38.6253	2,060.01	4,463.36	53,560.41
		STEP M	26.3861	39.5791	2,110.88	4,573.59	54,883.08
		STEP N	27.0377	40.5565	2,163.01	4,686.53	56,238.41
		STEP O	27.7054	41.5581	2,216.43	4,802.26	57,627.23
B507	SOLID WASTE BILLING TECH						
		STEP A	20.4446	30.6669	1,635.56	3,543.73	42,524.76
		STEP B	20.9492	31.4238	1,675.93	3,631.19	43,574.33
		STEP C	21.4666	32.1999	1,717.32	3,720.87	44,650.52
		STEP D	21.9967	32.9950	1,759.73	3,812.76	45,753.13
		STEP E	22.5399	33.8098	1,803.19	3,906.91	46,882.99
		STEP F	23.0966	34.6449	1,847.72	4,003.41	48,040.92
		STEP G	23.6670	35.5005	1,893.36	4,102.28	49,227.36
		STEP H	24.2514	36.3771	1,940.11	4,203.57	50,442.91
		STEP I	24.8503	37.2754	1,988.02	4,307.38	51,688.62
		STEP J	25.4640	38.1960	2,037.12	4,413.76	52,965.12
		STEP K	26.0928	39.1392	2,087.42	4,522.75	54,273.02
		STEP L	26.7372	40.1058	2,138.97	4,634.44	55,613.37
		STEP M	27.3975	41.0962	2,191.80	4,748.90	56,986.80
		STEP N	28.0741	42.1111	2,245.92	4,866.17	58,394.12
		STEP O	28.7674	43.1511	2,301.39	4,986.34	59,836.19
B508	SR BUILDING INSPECTOR						
		STEP A	29.0604	43.5906	2,324.83	5,037.13	60,445.63
		STEP B	29.7780	44.6670	2,382.24	5,161.52	61,938.24
		STEP C	30.5134	45.7701	2,441.07	5,288.98	63,467.87
		STEP D	31.2669	46.9003	2,501.35	5,419.59	65,035.15
		STEP E	32.0391	48.0586	2,563.12	5,553.44	66,641.32
		STEP F	32.8303	49.2454	2,626.42	5,690.58	68,287.02
		STEP G	33.6410	50.4615	2,691.28	5,831.10	69,973.28
		STEP H	34.4718	51.7077	2,757.74	5,975.11	71,701.34
		STEP I	35.3231	52.9846	2,825.84	6,122.67	73,472.04
		STEP J	36.1954	54.2931	2,895.63	6,273.86	75,286.43
		STEP K	37.0893	55.6339	2,967.14	6,428.81	77,145.74
		STEP L	38.0052	57.0078	3,040.41	6,587.56	79,050.81
		STEP M	38.9439	58.4158	3,115.51	6,750.27	81,003.31
		STEP N	39.9055	59.8582	3,192.44	6,916.95	83,003.44
		STEP O	40.8910	61.3365	3,271.28	7,087.77	85,053.28

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B509	SR BUILDING MAINTENANCE WKR	STEP A	24.2471	36.3706	1,939.76	4,202.83	50,433.96
		STEP B	24.8458	37.2687	1,987.66	4,306.60	51,679.26
		STEP C	25.4594	38.1891	2,036.75	4,412.96	52,955.55
		STEP D	26.0881	39.1321	2,087.04	4,521.93	54,263.24
		STEP E	26.7323	40.0984	2,138.58	4,633.59	55,603.18
		STEP F	27.3925	41.0887	2,191.40	4,748.03	56,976.40
		STEP G	28.0690	42.1035	2,245.52	4,865.29	58,383.52
		STEP H	28.7621	43.1431	2,300.96	4,985.43	59,825.16
		STEP I	29.4724	44.2086	2,357.79	5,108.54	61,302.59
		STEP J	30.2003	45.3004	2,416.02	5,234.71	62,816.62
		STEP K	30.9461	46.4191	2,475.68	5,363.99	64,367.88
		STEP L	31.7103	47.5654	2,536.82	5,496.45	65,957.42
		STEP M	32.4934	48.7401	2,599.47	5,632.18	67,586.27
		STEP N	33.2958	49.9437	2,663.66	5,771.27	69,255.26
		STEP O	34.1181	51.1771	2,729.44	5,913.80	70,965.64
B510	SR BUILDING PLANS EXAMINER	STEP A	29.3978	44.0967	2,351.82	5,095.61	61,147.42
		STEP B	30.1238	45.1857	2,409.90	5,221.45	62,657.50
		STEP C	30.8677	46.3015	2,469.41	5,350.40	64,204.81
		STEP D	31.6300	47.4450	2,530.40	5,482.53	65,790.40
		STEP E	32.4111	48.6166	2,592.88	5,617.92	67,415.08
		STEP F	33.2115	49.8172	2,656.92	5,756.66	69,079.92
		STEP G	34.0317	51.0475	2,722.53	5,898.82	70,785.93
		STEP H	34.8721	52.3081	2,789.76	6,044.49	72,533.96
		STEP I	35.7333	53.5999	2,858.66	6,193.77	74,325.26
		STEP J	36.6157	54.9235	2,929.25	6,346.72	76,160.65
		STEP K	37.5200	56.2800	3,001.60	6,503.46	78,041.60
		STEP L	38.4465	57.6697	3,075.72	6,664.06	79,968.72
		STEP M	39.3960	59.0940	3,151.68	6,828.64	81,943.68
		STEP N	40.3689	60.5533	3,229.51	6,997.27	83,967.31
		STEP O	41.3658	62.0487	3,309.26	7,170.07	86,040.86
B511	SR CODE ENFORCEMENT INSPECTOR	STEP A	29.0604	43.5906	2,324.83	5,037.13	60,445.63
		STEP B	29.7780	44.6670	2,382.24	5,161.52	61,938.24
		STEP C	30.5134	45.7701	2,441.07	5,288.98	63,467.87
		STEP D	31.2669	46.9003	2,501.35	5,419.59	65,035.15
		STEP E	32.0391	48.0586	2,563.12	5,553.44	66,641.32
		STEP F	32.8303	49.2454	2,626.42	5,690.58	68,287.02
		STEP G	33.6410	50.4615	2,691.28	5,831.10	69,973.28
		STEP H	34.4718	51.7077	2,757.74	5,975.11	71,701.34
		STEP I	35.3231	52.9846	2,825.84	6,122.67	73,472.04
		STEP J	36.1954	54.2931	2,895.63	6,273.86	75,286.43
		STEP K	37.0893	55.6339	2,967.14	6,428.81	77,145.74
		STEP L	38.0052	57.0078	3,040.41	6,587.56	79,050.81
		STEP M	38.9438	58.4157	3,115.50	6,750.25	81,003.10
		STEP N	39.9055	59.8582	3,192.44	6,916.95	83,003.44
		STEP O	40.8910	61.3365	3,271.28	7,087.77	85,053.28

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B512	SR CONSTRUCTION INSPECTOR						
		STEP A	27.1835	40.7752	2,174.68	4,711.80	56,541.68
		STEP B	27.8546	41.7819	2,228.36	4,828.13	57,937.56
		STEP C	28.5425	42.8137	2,283.40	4,947.36	59,368.40
		STEP D	29.2473	43.8709	2,339.78	5,069.53	60,834.38
		STEP E	29.9696	44.9544	2,397.56	5,194.73	62,336.76
		STEP F	30.7097	46.0645	2,456.77	5,323.01	63,876.17
		STEP G	31.4681	47.2021	2,517.44	5,454.47	65,453.64
		STEP H	32.2452	48.3678	2,579.61	5,589.16	67,070.01
		STEP I	33.0416	49.5624	2,643.32	5,727.21	68,726.52
		STEP J	33.8575	50.7862	2,708.60	5,868.63	70,423.60
		STEP K	34.6937	52.0405	2,775.49	6,013.57	72,162.89
		STEP L	35.5504	53.3256	2,844.03	6,162.06	73,944.83
		STEP M	36.4284	54.6426	2,914.27	6,314.25	75,771.07
		STEP N	37.3280	55.9920	2,986.24	6,470.18	77,642.24
		STEP O	38.2498	57.3747	3,059.98	6,629.96	79,559.58
B513	SR CUSTODIAN						
		STEP A	16.7550	25.1325	1,340.40	2,904.20	34,850.40
		STEP B	17.1688	25.7532	1,373.50	2,975.92	35,711.10
		STEP C	17.5928	26.3892	1,407.42	3,049.41	36,593.02
		STEP D	18.0272	27.0408	1,442.17	3,124.71	37,496.57
		STEP E	18.4724	27.7086	1,477.79	3,201.88	38,422.59
		STEP F	18.9286	28.3929	1,514.28	3,280.95	39,371.48
		STEP G	19.3961	29.0941	1,551.68	3,361.99	40,343.88
		STEP H	19.8751	29.8126	1,590.00	3,445.01	41,340.20
		STEP I	20.3659	30.5488	1,629.27	3,530.08	42,361.07
		STEP J	20.8688	31.3032	1,669.50	3,617.25	43,407.10
		STEP K	21.3842	32.0763	1,710.73	3,706.59	44,479.13
		STEP L	21.9123	32.8684	1,752.98	3,798.13	45,577.58
		STEP M	22.4534	33.6801	1,796.27	3,891.92	46,703.07
		STEP N	23.0079	34.5118	1,840.63	3,988.03	47,856.43
		STEP O	23.5761	35.3641	1,886.08	4,086.52	49,038.28
B514	SR ENGINEERING TECHNICIAN						
		STEP A	24.4691	36.7036	1,957.52	4,241.31	50,895.72
		STEP B	25.0734	37.6101	2,005.87	4,346.05	52,152.67
		STEP C	25.6926	38.5389	2,055.40	4,453.38	53,440.60
		STEP D	26.3271	39.4906	2,106.16	4,563.36	54,760.36
		STEP E	26.9773	40.4659	2,158.18	4,676.06	56,112.78
		STEP F	27.6435	41.4652	2,211.48	4,791.54	57,498.48
		STEP G	28.3262	42.4893	2,266.09	4,909.87	58,918.49
		STEP H	29.0257	43.5385	2,322.05	5,031.12	60,373.45
		STEP I	29.7425	44.6137	2,379.40	5,155.36	61,864.40
		STEP J	30.4770	45.7155	2,438.16	5,282.68	63,392.16
		STEP K	31.2296	46.8444	2,498.36	5,413.13	64,957.56
		STEP L	32.0008	48.0012	2,560.06	5,546.80	66,561.66
		STEP M	32.7911	49.1866	2,623.28	5,683.79	68,205.48
		STEP N	33.6009	50.4013	2,688.07	5,824.15	69,889.87
		STEP O	34.4307	51.6460	2,754.45	5,967.98	71,615.85

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B545	SR FINANCE CLERK	STEP A	19.5821	29.3731	1,566.56	3,394.23	40,730.76
		STEP B	20.0656	30.0984	1,605.24	3,478.03	41,736.44
		STEP C	20.5611	30.8416	1,644.88	3,563.92	42,767.08
		STEP D	21.0689	31.6033	1,685.51	3,651.94	43,823.31
		STEP E	21.5892	32.3838	1,727.13	3,742.12	44,905.53
		STEP F	22.1224	33.1836	1,769.79	3,834.54	46,014.59
		STEP G	22.6687	34.0030	1,813.49	3,929.24	47,150.89
		STEP H	23.2285	34.8427	1,858.28	4,026.27	48,315.28
		STEP I	23.8021	35.7031	1,904.16	4,125.69	49,508.36
		STEP J	24.3899	36.5848	1,951.19	4,227.58	50,730.99
		STEP K	24.9923	37.4884	1,999.38	4,332.00	51,983.98
		STEP L	25.6095	38.4142	2,048.76	4,438.98	53,267.76
		STEP M	26.2419	39.3628	2,099.35	4,548.59	54,583.15
		STEP N	26.8899	40.3348	2,151.19	4,660.91	55,930.99
		STEP O	27.5540	41.3310	2,204.32	4,776.02	57,312.32
B515	SR FINANCE TECHNICIAN	STEP A	22.4889	33.7333	1,799.11	3,898.07	46,776.91
		STEP B	23.0442	34.5663	1,843.53	3,994.32	47,931.93
		STEP C	23.6133	35.4199	1,889.06	4,092.97	49,115.66
		STEP D	24.1964	36.2946	1,935.71	4,194.04	50,328.51
		STEP E	24.7940	37.1910	1,983.52	4,297.62	51,571.52
		STEP F	25.4063	38.1094	2,032.50	4,403.75	52,845.10
		STEP G	26.0337	39.0505	2,082.69	4,512.50	54,150.09
		STEP H	26.6766	40.0149	2,134.12	4,623.94	55,487.32
		STEP I	27.3354	41.0031	2,186.83	4,738.13	56,857.63
		STEP J	28.0105	42.0157	2,240.84	4,855.15	58,261.84
		STEP K	28.7022	43.0533	2,296.17	4,975.04	59,700.57
		STEP L	29.4110	44.1165	2,352.88	5,097.90	61,174.88
		STEP M	30.1373	45.2059	2,410.98	5,223.79	62,685.58
		STEP N	30.8816	46.3224	2,470.52	5,352.81	64,233.72
		STEP O	31.6442	47.4663	2,531.53	5,484.99	65,819.93
B516	SR HOUSING TECHNICIAN	STEP A	23.0572	34.5858	1,844.57	3,996.58	47,958.97
		STEP B	23.6266	35.4399	1,890.12	4,095.27	49,143.32
		STEP C	24.2100	36.3150	1,936.80	4,196.40	50,356.80
		STEP D	24.8079	37.2118	1,984.63	4,300.03	51,600.43
		STEP E	25.4206	38.1309	2,033.64	4,406.23	52,874.84
		STEP F	26.0483	39.0724	2,083.86	4,515.03	54,180.46
		STEP G	26.6916	40.0374	2,135.32	4,626.54	55,518.52
		STEP H	27.3508	41.0262	2,188.06	4,740.80	56,889.66
		STEP I	28.0262	42.0393	2,242.09	4,857.87	58,294.49
		STEP J	28.7183	43.0774	2,297.46	4,977.83	59,734.06
		STEP K	29.4275	44.1412	2,354.20	5,100.76	61,209.20
		STEP L	30.1543	45.2314	2,412.34	5,226.74	62,720.94
		STEP M	30.8989	46.3483	2,471.91	5,355.80	64,269.71
		STEP N	31.6620	47.4930	2,532.96	5,488.08	65,856.96
		STEP O	32.4439	48.6658	2,595.51	5,623.60	67,483.31

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B517	SR IT TECHNICIAN	STEP A	25.2686	37.9029	2,021.48	4,379.89	52,558.68
		STEP B	25.8927	38.8390	2,071.41	4,488.06	53,856.81
		STEP C	26.5321	39.7981	2,122.56	4,598.89	55,186.76
		STEP D	27.1873	40.7809	2,174.98	4,712.46	56,549.58
		STEP E	27.8587	41.7880	2,228.69	4,828.84	57,946.09
		STEP F	28.5467	42.8200	2,283.73	4,948.09	59,377.13
		STEP G	29.2517	43.8775	2,340.13	5,070.29	60,843.53
		STEP H	29.9741	44.9611	2,397.92	5,195.51	62,346.12
		STEP I	30.7143	46.0714	2,457.14	5,323.81	63,885.74
		STEP J	31.4728	47.2092	2,517.82	5,455.28	65,463.42
		STEP K	32.2500	48.3750	2,580.00	5,590.00	67,080.00
		STEP L	33.0465	49.5697	2,643.72	5,728.06	68,736.72
		STEP M	33.8626	50.7939	2,709.00	5,869.51	70,434.20
		STEP N	34.6988	52.0482	2,775.90	6,014.45	72,173.50
		STEP O	35.5557	53.3335	2,844.45	6,162.98	73,955.85
B518	SR MECHANIC	STEP A	26.0606	39.0909	2,084.84	4,517.17	54,206.04
		STEP B	26.7040	40.0560	2,136.32	4,628.69	55,544.32
		STEP C	27.3635	41.0452	2,189.08	4,743.00	56,916.08
		STEP D	28.0392	42.0588	2,243.13	4,860.12	58,321.53
		STEP E	28.7317	43.0975	2,298.53	4,980.16	59,761.93
		STEP F	29.4412	44.1618	2,355.29	5,103.14	61,237.69
		STEP G	30.1683	45.2524	2,413.46	5,229.17	62,750.06
		STEP H	30.9133	46.3699	2,473.06	5,358.30	64,299.66
		STEP I	31.6767	47.5150	2,534.13	5,490.62	65,887.53
		STEP J	32.4590	48.6885	2,596.72	5,626.22	67,514.72
		STEP K	33.2605	49.8907	2,660.84	5,765.15	69,181.84
		STEP L	34.0819	51.1228	2,726.55	5,907.52	70,890.35
		STEP M	34.9236	52.3854	2,793.88	6,053.42	72,641.08
		STEP N	35.7860	53.6790	2,862.88	6,202.90	74,434.88
		STEP O	36.6698	55.0047	2,933.58	6,356.09	76,273.18
B519	SR METER SERVICE WORKER	STEP A	20.3987	30.5980	1,631.89	3,535.77	42,429.29
		STEP B	20.9025	31.3537	1,672.20	3,623.10	43,477.20
		STEP C	21.4187	32.1280	1,713.49	3,712.57	44,550.89
		STEP D	21.9476	32.9214	1,755.80	3,804.25	45,651.00
		STEP E	22.4896	33.7344	1,799.16	3,898.19	46,778.36
		STEP F	23.0450	34.5675	1,843.60	3,994.46	47,933.60
		STEP G	23.6141	35.4211	1,889.12	4,093.11	49,117.32
		STEP H	24.1973	36.2959	1,935.78	4,194.19	50,330.38
		STEP I	24.7949	37.1923	1,983.59	4,297.78	51,573.39
		STEP J	25.4072	38.1108	2,032.57	4,403.91	52,846.97
		STEP K	26.0346	39.0519	2,082.76	4,512.66	54,151.96
		STEP L	26.6776	40.0164	2,134.20	4,624.11	55,489.40
		STEP M	27.3364	41.0046	2,186.91	4,738.30	56,859.71
		STEP N	28.0114	42.0171	2,240.91	4,855.30	58,263.71
		STEP O	28.7032	43.0548	2,296.25	4,975.22	59,702.65

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B520	SR NATURAL RESOURCES WORKER						
		STEP A	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP B	22.6671	34.0006	1,813.36	3,928.96	47,147.56
		STEP C	23.2268	34.8402	1,858.14	4,025.97	48,311.74
		STEP D	23.8004	35.7006	1,904.03	4,125.40	49,504.83
		STEP E	24.3882	36.5823	1,951.05	4,227.28	50,727.45
		STEP F	24.9905	37.4857	1,999.24	4,331.68	51,980.24
		STEP G	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP H	26.2400	39.3600	2,099.20	4,548.26	54,579.20
		STEP I	26.8880	40.3320	2,151.04	4,660.58	55,927.04
		STEP J	27.5520	41.3280	2,204.16	4,775.68	57,308.16
		STEP K	28.2324	42.3486	2,258.59	4,893.61	58,723.39
		STEP L	28.9296	43.3944	2,314.36	5,014.46	60,173.56
		STEP M	29.6441	44.4661	2,371.52	5,138.31	61,659.72
		STEP N	30.3761	45.5641	2,430.08	5,265.19	63,182.28
		STEP O	31.1263	46.6894	2,490.10	5,395.22	64,742.70
B521	SR PARKS MAINTENANCE WORKER						
		STEP A	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP B	21.5878	32.3817	1,727.02	3,741.88	44,902.62
		STEP C	22.1209	33.1813	1,769.67	3,834.28	46,011.47
		STEP D	22.6672	34.0008	1,813.37	3,928.98	47,147.77
		STEP E	23.2269	34.8403	1,858.15	4,026.00	48,311.95
		STEP F	23.8005	35.7007	1,904.04	4,125.42	49,505.04
		STEP G	24.3883	36.5824	1,951.06	4,227.30	50,727.66
		STEP H	24.9906	37.4859	1,999.24	4,331.70	51,980.44
		STEP I	25.6077	38.4115	2,048.61	4,438.66	53,264.01
		STEP J	26.2401	39.3601	2,099.20	4,548.28	54,579.40
		STEP K	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP L	27.5521	41.3281	2,204.16	4,775.69	57,308.36
		STEP M	28.2326	42.3489	2,258.60	4,893.65	58,723.80
		STEP N	28.9298	43.3947	2,314.38	5,014.49	60,173.98
		STEP O	29.6442	44.4663	2,371.53	5,138.32	61,659.93
B522	SR REFUSE TRUCK DRIVER						
		STEP A	21.6531	32.4796	1,732.24	3,753.20	45,038.44
		STEP B	22.1878	33.2817	1,775.02	3,845.88	46,150.62
		STEP C	22.7358	34.1037	1,818.86	3,940.87	47,290.46
		STEP D	23.2972	34.9458	1,863.77	4,038.18	48,458.17
		STEP E	23.8726	35.8089	1,909.80	4,137.91	49,655.00
		STEP F	24.4621	36.6931	1,956.96	4,240.09	50,881.16
		STEP G	25.0662	37.5993	2,005.29	4,344.80	52,137.69
		STEP H	25.6852	38.5278	2,054.81	4,452.10	53,425.21
		STEP I	26.3195	39.4792	2,105.56	4,562.04	54,744.56
		STEP J	26.9695	40.4542	2,157.56	4,674.71	56,096.56
		STEP K	27.6355	41.4532	2,210.84	4,790.15	57,481.84
		STEP L	28.3180	42.4770	2,265.44	4,908.45	58,901.44
		STEP M	29.0173	43.5259	2,321.38	5,029.66	60,355.98
		STEP N	29.7339	44.6008	2,378.71	5,153.87	61,846.51
		STEP O	30.4682	45.7023	2,437.45	5,281.15	63,373.85

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B523	SR STREET MAINTENANCE WORKER						
		STEP A	22.0348	33.0522	1,762.78	3,819.36	45,832.38
		STEP B	22.5787	33.8680	1,806.29	3,913.64	46,963.69
		STEP C	23.1362	34.7043	1,850.89	4,010.27	48,123.29
		STEP D	23.7076	35.5614	1,896.60	4,109.31	49,311.80
		STEP E	24.2931	36.4396	1,943.44	4,210.80	50,529.64
		STEP F	24.8930	37.3395	1,991.44	4,314.78	51,777.44
		STEP G	25.5077	38.2615	2,040.61	4,421.33	53,056.01
		STEP H	26.1377	39.2065	2,091.01	4,530.53	54,366.41
		STEP I	26.7831	40.1746	2,142.64	4,642.40	55,708.84
		STEP J	27.4446	41.1669	2,195.56	4,757.06	57,084.76
		STEP K	28.1233	42.1849	2,249.86	4,874.70	58,496.46
		STEP L	28.8168	43.2252	2,305.34	4,994.91	59,938.94
		STEP M	29.5285	44.2927	2,362.28	5,118.27	61,419.28
		STEP N	30.2577	45.3865	2,420.61	5,244.66	62,936.01
		STEP O	31.0049	46.5073	2,480.39	5,374.18	64,490.19
B524	SR TREE TRIMMER						
		STEP A	22.0706	33.1059	1,765.64	3,825.57	45,906.84
		STEP B	22.6156	33.9234	1,809.24	3,920.03	47,040.44
		STEP C	23.1741	34.7611	1,853.92	4,016.84	48,202.12
		STEP D	23.7464	35.6196	1,899.71	4,116.04	49,392.51
		STEP E	24.3328	36.4992	1,946.62	4,217.68	50,612.22
		STEP F	24.9337	37.4005	1,994.69	4,321.84	51,862.09
		STEP G	25.5495	38.3242	2,043.96	4,428.58	53,142.96
		STEP H	26.1804	39.2706	2,094.43	4,537.93	54,455.23
		STEP I	26.8269	40.2403	2,146.15	4,650.00	55,799.95
		STEP J	27.4894	41.2341	2,199.15	4,764.82	57,177.95
		STEP K	28.1683	42.2524	2,253.46	4,882.50	58,590.06
		STEP L	28.8639	43.2958	2,309.11	5,003.07	60,036.91
		STEP M	29.5767	44.3650	2,366.13	5,126.62	61,519.53
		STEP N	30.3072	45.4608	2,424.57	5,253.24	63,038.97
		STEP O	31.0556	46.5834	2,484.44	5,382.97	64,595.64
B525	SR WAREHOUSE WORKER						
		STEP A	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP B	21.5878	32.3817	1,727.02	3,741.88	44,902.62
		STEP C	22.1209	33.1813	1,769.67	3,834.28	46,011.47
		STEP D	22.6672	34.0008	1,813.37	3,928.98	47,147.77
		STEP E	23.2269	34.8403	1,858.15	4,026.00	48,311.95
		STEP F	23.8005	35.7007	1,904.04	4,125.42	49,505.04
		STEP G	24.3883	36.5824	1,951.06	4,227.30	50,727.66
		STEP H	24.9906	37.4859	1,999.24	4,331.70	51,980.44
		STEP I	25.6077	38.4115	2,048.61	4,438.66	53,264.01
		STEP J	26.2401	39.3601	2,099.20	4,548.28	54,579.40
		STEP K	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP L	27.5521	41.3281	2,204.16	4,775.69	57,308.36
		STEP M	28.2326	42.3489	2,258.60	4,893.65	58,723.80
		STEP N	28.9298	43.3947	2,314.38	5,014.49	60,173.98
		STEP O	29.6442	44.4663	2,371.53	5,138.32	61,659.93

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B526	STREET MAINT WORKER I						
		STEP A	18.1835	27.2752	1,454.68	3,151.80	37,821.68
		STEP B	18.6325	27.9487	1,490.60	3,229.63	38,755.60
		STEP C	19.0926	28.6389	1,527.40	3,309.38	39,712.60
		STEP D	19.5641	29.3461	1,565.12	3,391.11	40,693.32
		STEP E	20.0472	30.0708	1,603.77	3,474.84	41,698.17
		STEP F	20.5423	30.8134	1,643.38	3,560.66	42,727.98
		STEP G	21.0496	31.5744	1,683.96	3,648.59	43,783.16
		STEP H	21.5694	32.3541	1,725.55	3,738.69	44,864.35
		STEP I	22.1021	33.1531	1,768.16	3,831.03	45,972.36
		STEP J	22.6479	33.9718	1,811.83	3,925.63	47,107.63
		STEP K	23.2072	34.8108	1,856.57	4,022.58	48,270.97
		STEP L	23.7803	35.6704	1,902.42	4,121.91	49,463.02
		STEP M	24.3676	36.5514	1,949.40	4,223.71	50,684.60
		STEP N	24.9694	37.4541	1,997.55	4,328.02	51,936.35
		STEP O	25.5860	38.3790	2,046.88	4,434.90	53,218.88
B527	STREET MAINT WORKER II						
		STEP A	20.0017	30.0025	1,600.13	3,466.96	41,603.53
		STEP B	20.4957	30.7435	1,639.65	3,552.58	42,631.05
		STEP C	21.0019	31.5028	1,680.15	3,640.32	43,683.95
		STEP D	21.5205	32.2807	1,721.64	3,730.22	44,762.64
		STEP E	22.0520	33.0780	1,764.16	3,822.34	45,868.16
		STEP F	22.5965	33.8947	1,807.72	3,916.72	47,000.72
		STEP G	23.1546	34.7319	1,852.36	4,013.46	48,161.56
		STEP H	23.7264	35.5896	1,898.11	4,112.57	49,350.91
		STEP I	24.3123	36.4684	1,944.98	4,214.13	50,569.58
		STEP J	24.9127	37.3690	1,993.01	4,318.20	51,818.41
		STEP K	25.5279	38.2918	2,042.23	4,424.83	53,098.03
		STEP L	26.1584	39.2376	2,092.67	4,534.12	54,409.47
		STEP M	26.8044	40.2066	2,144.35	4,646.09	55,753.15
		STEP N	27.4663	41.1994	2,197.30	4,760.82	57,129.90
		STEP O	28.1446	42.2169	2,251.56	4,878.39	58,540.76
B528	STREET SWEEPER OPERATOR						
		STEP A	21.0010	31.5015	1,680.08	3,640.17	43,682.08
		STEP B	21.5195	32.2792	1,721.56	3,730.04	44,760.56
		STEP C	22.0510	33.0765	1,764.08	3,822.17	45,866.08
		STEP D	22.5955	33.8932	1,807.64	3,916.55	46,998.64
		STEP E	23.1535	34.7302	1,852.28	4,013.27	48,159.28
		STEP F	23.7253	35.5879	1,898.02	4,112.38	49,348.62
		STEP G	24.3112	36.4668	1,944.89	4,213.94	50,567.29
		STEP H	24.9116	37.3674	1,992.92	4,318.01	51,816.12
		STEP I	25.5268	38.2902	2,042.14	4,424.64	53,095.74
		STEP J	26.1572	39.2358	2,092.57	4,533.91	54,406.97
		STEP K	26.8031	40.2046	2,144.24	4,645.87	55,750.44
		STEP L	27.4651	41.1976	2,197.20	4,760.61	57,127.40
		STEP M	28.1433	42.2149	2,251.46	4,878.17	58,538.06
		STEP N	28.8383	43.2574	2,307.06	4,998.63	59,983.66
		STEP O	29.5505	44.3257	2,364.04	5,122.08	61,465.04

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B529	TREE TRIMMER	STEP A	20.0641	30.0961	1,605.12	3,477.77	41,733.32
		STEP B	20.5594	30.8391	1,644.75	3,563.62	42,763.55
		STEP C	21.0671	31.6006	1,685.36	3,651.63	43,819.56
		STEP D	21.5874	32.3811	1,726.99	3,741.81	44,901.79
		STEP E	22.1205	33.1807	1,769.64	3,834.22	46,010.64
		STEP F	22.6668	34.0002	1,813.34	3,928.91	47,146.94
		STEP G	23.2266	34.8399	1,858.12	4,025.94	48,311.32
		STEP H	23.8001	35.7001	1,904.00	4,125.35	49,504.20
		STEP I	24.3879	36.5818	1,951.03	4,227.23	50,726.83
		STEP J	24.9902	37.4853	1,999.21	4,331.63	51,979.61
		STEP K	25.6073	38.4109	2,048.58	4,438.59	53,263.18
		STEP L	26.2397	39.3595	2,099.17	4,548.21	54,578.57
		STEP M	26.8877	40.3315	2,151.01	4,660.53	55,926.41
		STEP N	27.5517	41.3275	2,204.13	4,775.62	57,307.53
		STEP O	28.2321	42.3481	2,258.56	4,893.56	58,722.76
B530	VEHICLE MAINT PARTS BUYER	STEP A	21.0641	31.5961	1,685.12	3,651.11	43,813.32
		STEP B	21.5843	32.3764	1,726.74	3,741.27	44,895.34
		STEP C	22.1173	33.1759	1,769.38	3,833.66	46,003.98
		STEP D	22.6635	33.9952	1,813.08	3,928.34	47,140.08
		STEP E	23.2232	34.8348	1,857.85	4,025.35	48,304.25
		STEP F	23.7967	35.6950	1,903.73	4,124.76	49,497.13
		STEP G	24.3843	36.5764	1,950.74	4,226.61	50,719.34
		STEP H	24.9865	37.4797	1,998.92	4,330.99	51,971.92
		STEP I	25.6036	38.4054	2,048.28	4,437.95	53,255.48
		STEP J	26.2359	39.3538	2,098.87	4,547.55	54,570.67
		STEP K	26.8838	40.3257	2,150.70	4,659.85	55,918.30
		STEP L	27.5477	41.3215	2,203.81	4,774.93	57,299.21
		STEP M	28.2280	42.3420	2,258.24	4,892.85	58,714.24
		STEP N	28.9251	43.3876	2,314.00	5,013.68	60,164.20
		STEP O	29.6394	44.4591	2,371.15	5,137.49	61,649.95
B531	VEHICLE MAINT SERVICEWRITER	STEP A	26.0606	39.0909	2,084.84	4,517.17	54,206.04
		STEP B	26.7040	40.0560	2,136.32	4,628.69	55,544.32
		STEP C	27.3635	41.0452	2,189.08	4,743.00	56,916.08
		STEP D	28.0392	42.0588	2,243.13	4,860.12	58,321.53
		STEP E	28.7317	43.0975	2,298.53	4,980.16	59,761.93
		STEP F	29.4412	44.1618	2,355.29	5,103.14	61,237.69
		STEP G	30.1683	45.2524	2,413.46	5,229.17	62,750.06
		STEP H	30.9133	46.3699	2,473.06	5,358.30	64,299.66
		STEP I	31.6767	47.5150	2,534.13	5,490.62	65,887.53
		STEP J	32.4590	48.6885	2,596.72	5,626.22	67,514.72
		STEP K	33.2605	49.8907	2,660.84	5,765.15	69,181.84
		STEP L	34.0819	51.1228	2,726.55	5,907.52	70,890.35
		STEP M	34.9236	52.3854	2,793.88	6,053.42	72,641.08
		STEP N	35.7860	53.6790	2,862.88	6,202.90	74,434.88
		STEP O	36.6698	55.0047	2,933.58	6,356.09	76,273.18

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B532	WAREHOUSE WORKER I						
		STEP A	16.8361	25.2541	1,346.88	2,918.25	35,019.08
		STEP B	17.2518	25.8777	1,380.14	2,990.31	35,883.74
		STEP C	17.6779	26.5168	1,414.23	3,064.16	36,770.03
		STEP D	18.1144	27.1716	1,449.15	3,139.82	37,677.95
		STEP E	18.5618	27.8427	1,484.94	3,217.37	38,608.54
		STEP F	19.0201	28.5301	1,521.60	3,296.81	39,561.80
		STEP G	19.4899	29.2348	1,559.19	3,378.24	40,538.99
		STEP H	19.9712	29.9568	1,597.69	3,461.67	41,540.09
		STEP I	20.4644	30.6966	1,637.15	3,547.16	42,565.95
		STEP J	20.9697	31.4545	1,677.57	3,634.74	43,616.97
		STEP K	21.4876	32.2314	1,719.00	3,724.51	44,694.20
		STEP L	22.0182	33.0273	1,761.45	3,816.48	45,797.85
		STEP M	22.5620	33.8430	1,804.96	3,910.74	46,928.96
		STEP N	23.1192	34.6788	1,849.53	4,007.32	48,087.93
		STEP O	23.6901	35.5351	1,895.20	4,106.28	49,275.40
B533	WAREHOUSE WORKER II						
		STEP A	19.1087	28.6630	1,528.69	3,312.17	39,746.09
		STEP B	19.5806	29.3709	1,566.44	3,393.97	40,727.64
		STEP C	20.0642	30.0963	1,605.13	3,477.79	41,733.53
		STEP D	20.5597	30.8395	1,644.77	3,563.68	42,764.17
		STEP E	21.0674	31.6011	1,685.39	3,651.68	43,820.19
		STEP F	21.5877	32.3815	1,727.01	3,741.86	44,902.41
		STEP G	22.1208	33.1812	1,769.66	3,834.27	46,011.26
		STEP H	22.6670	34.0005	1,813.36	3,928.94	47,147.36
		STEP I	23.2268	34.8402	1,858.14	4,025.97	48,311.74
		STEP J	23.8004	35.7006	1,904.03	4,125.40	49,504.83
		STEP K	24.3882	36.5823	1,951.05	4,227.28	50,727.45
		STEP L	24.9905	37.4857	1,999.24	4,331.68	51,980.24
		STEP M	25.6076	38.4114	2,048.60	4,438.65	53,263.80
		STEP N	26.2400	39.3600	2,099.20	4,548.26	54,579.20
		STEP O	26.8880	40.3320	2,151.04	4,660.58	55,927.04
B534	WATER TRMT PLT OPR GD I 24HR						
		STEP A	14.3310	21.4965	1,605.07	3,477.65	41,731.87
		STEP B	14.6848	22.0272	1,644.69	3,563.51	42,762.13
		STEP C	15.0475	22.5712	1,685.32	3,651.52	43,818.32
		STEP D	15.4191	23.1286	1,726.93	3,741.70	44,900.41
		STEP E	15.7998	23.6997	1,769.57	3,834.08	46,009.01
		STEP F	16.1900	24.2850	1,813.28	3,928.77	47,145.28
		STEP G	16.5898	24.8847	1,858.05	4,025.79	48,309.49
		STEP H	16.9995	25.4992	1,903.94	4,125.21	49,502.54
		STEP I	17.4193	26.1289	1,950.96	4,227.08	50,725.00
		STEP J	17.8495	26.7742	1,999.14	4,331.47	51,977.74
		STEP K	18.2903	27.4354	2,048.51	4,438.44	53,261.35
		STEP L	18.7420	28.1130	2,099.10	4,548.05	54,576.70
		STEP M	19.2048	28.8072	2,150.93	4,660.36	55,924.37
		STEP N	19.6791	29.5186	2,204.05	4,775.46	57,305.53
		STEP O	20.1651	30.2476	2,258.49	4,893.39	58,720.77

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B535	WATER TRMT PLT OPR GD I 8HR						
		STEP A	20.0635	30.0952	1,605.08	3,477.67	41,732.08
		STEP B	20.5591	30.8386	1,644.72	3,563.57	42,762.92
		STEP C	21.0668	31.6002	1,685.34	3,651.57	43,818.94
		STEP D	21.5870	32.3805	1,726.96	3,741.74	44,900.96
		STEP E	22.1201	33.1801	1,769.60	3,834.15	46,009.80
		STEP F	22.6664	33.9996	1,813.31	3,928.84	47,146.11
		STEP G	23.2261	34.8391	1,858.08	4,025.85	48,310.28
		STEP H	23.7997	35.6995	1,903.97	4,125.28	49,503.37
		STEP I	24.3875	36.5812	1,951.00	4,227.16	50,726.00
		STEP J	24.9897	37.4845	1,999.17	4,331.54	51,978.57
		STEP K	25.0609	37.5913	2,004.87	4,343.88	52,126.67
		STEP L	26.2392	39.3588	2,099.13	4,548.12	54,577.53
		STEP M	26.8872	40.3308	2,150.97	4,660.44	55,925.37
		STEP N	27.5512	41.3268	2,204.09	4,775.54	57,306.49
		STEP O	28.2316	42.3474	2,258.52	4,893.47	58,721.72
B536	WATER TRMT PLT OPR GD II 24HR						
		STEP A	15.8140	23.7210	1,771.16	3,837.53	46,050.36
		STEP B	16.2045	24.3067	1,814.90	3,932.29	47,187.50
		STEP C	16.6046	24.9069	1,859.71	4,029.38	48,352.59
		STEP D	17.0147	25.5220	1,905.64	4,128.90	49,546.80
		STEP E	17.4349	26.1523	1,952.70	4,230.86	50,770.42
		STEP F	17.8655	26.7982	2,000.93	4,335.36	52,024.33
		STEP G	18.3066	27.4599	2,050.33	4,442.40	53,308.81
		STEP H	18.7587	28.1380	2,100.97	4,552.11	54,625.33
		STEP I	19.2220	28.8330	2,152.86	4,664.53	55,974.46
		STEP J	19.6967	29.5450	2,206.03	4,779.73	57,356.79
		STEP K	20.1831	30.2746	2,260.50	4,897.76	58,773.18
		STEP L	20.6815	31.0222	2,316.32	5,018.71	60,224.52
		STEP M	21.1923	31.7884	2,373.53	5,142.66	61,711.97
		STEP N	21.7156	32.5734	2,432.14	5,269.65	63,235.82
		STEP O	22.2519	33.3778	2,492.21	5,399.79	64,797.53
B537	WATER TRMT PLT OPR GD II 8HR						
		STEP A	22.1395	33.2092	1,771.16	3,837.51	46,050.16
		STEP B	22.6865	34.0297	1,814.92	3,932.32	47,187.92
		STEP C	23.2468	34.8702	1,859.74	4,029.44	48,353.34
		STEP D	23.8208	35.7312	1,905.66	4,128.93	49,547.26
		STEP E	24.4091	36.6136	1,952.72	4,230.91	50,770.92
		STEP F	25.0119	37.5178	2,000.95	4,335.39	52,024.75
		STEP G	25.6296	38.4444	2,050.36	4,442.46	53,309.56
		STEP H	26.2625	39.3937	2,101.00	4,552.16	54,626.00
		STEP I	26.9111	40.3666	2,152.88	4,664.59	55,975.08
		STEP J	27.5757	41.3635	2,206.05	4,779.78	57,357.45
		STEP K	28.2567	42.3850	2,260.53	4,897.82	58,773.93
		STEP L	28.9545	43.4317	2,316.36	5,018.78	60,225.36
		STEP M	29.6695	44.5042	2,373.56	5,142.71	61,712.56
		STEP N	30.4022	45.6033	2,432.17	5,269.71	63,236.57
		STEP O	31.1530	46.7295	2,492.24	5,399.85	64,798.24

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B538	WATER TRMT PLT OPR GD III 24HR						
		STEP A	20.1660	30.2490	2,258.59	4,893.61	58,723.39
		STEP B	20.6638	30.9957	2,314.34	5,014.41	60,172.98
		STEP C	21.1741	31.7611	2,371.49	5,138.24	61,658.97
		STEP D	21.6970	32.5455	2,430.06	5,265.13	63,181.66
		STEP E	22.2328	33.3492	2,490.07	5,395.15	64,741.91
		STEP F	22.7818	34.1727	2,551.56	5,528.38	66,340.60
		STEP G	23.3445	35.0167	2,614.58	5,664.93	67,979.18
		STEP H	23.9210	35.8815	2,679.15	5,804.82	69,657.95
		STEP I	24.5117	36.7675	2,745.31	5,948.17	71,378.07
		STEP J	25.1170	37.6755	2,813.10	6,095.05	73,140.70
		STEP K	25.7373	38.6059	2,882.57	6,245.58	74,947.01
		STEP L	26.3729	39.5593	2,953.76	6,399.82	76,797.88
		STEP M	27.0242	40.5363	3,026.71	6,557.87	78,694.47
		STEP N	27.6915	41.5372	3,101.44	6,719.80	80,637.64
		STEP O	28.3754	42.5631	3,178.04	6,885.76	82,629.16
B539	WATER TRMT PLT OPR GD III 8HR						
		STEP A	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP B	27.5521	41.3281	2,204.16	4,775.69	57,308.36
		STEP C	28.2325	42.3487	2,258.60	4,893.63	58,723.60
		STEP D	28.9297	43.3945	2,314.37	5,014.48	60,173.77
		STEP E	29.6441	44.4661	2,371.52	5,138.31	61,659.72
		STEP F	30.3762	45.5643	2,430.09	5,265.20	63,182.49
		STEP G	31.1264	46.6896	2,490.11	5,395.24	64,742.91
		STEP H	31.8951	47.8426	2,551.60	5,528.48	66,341.80
		STEP I	32.6827	49.0240	2,614.61	5,665.00	67,980.01
		STEP J	33.4898	50.2347	2,679.18	5,804.89	69,658.78
		STEP K	34.3169	51.4753	2,745.35	5,948.26	71,379.15
		STEP L	35.1643	52.7464	2,813.14	6,095.14	73,141.74
		STEP M	36.0327	54.0490	2,882.61	6,245.66	74,948.01
		STEP N	36.9226	55.3839	2,953.80	6,399.91	76,799.00
		STEP O	37.8344	56.7516	3,026.75	6,557.96	78,695.55
B540	WSTWTR TRMT PLT OPR GD I						
		STEP A	20.0636	30.0954	1,605.08	3,477.69	41,732.28
		STEP B	20.5591	30.8386	1,644.72	3,563.57	42,762.92
		STEP C	21.0668	31.6002	1,685.34	3,651.57	43,818.94
		STEP D	21.5870	32.3805	1,726.96	3,741.74	44,900.96
		STEP E	22.1201	33.1801	1,769.60	3,834.15	46,009.80
		STEP F	22.6664	33.9996	1,813.31	3,928.84	47,146.11
		STEP G	23.2261	34.8391	1,858.08	4,025.85	48,310.28
		STEP H	23.7997	35.6995	1,903.97	4,125.28	49,503.37
		STEP I	24.3875	36.5812	1,951.00	4,227.16	50,726.00
		STEP J	24.9897	37.4845	1,999.17	4,331.54	51,978.57
		STEP K	25.6069	38.4103	2,048.55	4,438.52	53,262.35
		STEP L	26.2392	39.3588	2,099.13	4,548.12	54,577.53
		STEP M	26.8872	40.3308	2,150.97	4,660.44	55,925.37
		STEP N	27.5512	41.3268	2,204.09	4,775.54	57,306.49
		STEP O	28.2316	42.3474	2,258.52	4,893.47	58,721.72

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B541	WSTWTR TRMT PLT OPR GD II						
		STEP A	22.1397	33.2095	1,771.17	3,837.54	46,050.57
		STEP B	22.6863	34.0294	1,814.90	3,932.29	47,187.50
		STEP C	23.2465	34.8697	1,859.72	4,029.39	48,352.72
		STEP D	23.8206	35.7309	1,905.64	4,128.90	49,546.84
		STEP E	24.4089	36.6133	1,952.71	4,230.87	50,770.51
		STEP F	25.0117	37.5175	2,000.93	4,335.36	52,024.33
		STEP G	25.6293	38.4439	2,050.34	4,442.41	53,308.94
		STEP H	26.2623	39.3934	2,100.98	4,552.13	54,625.58
		STEP I	26.9108	40.3662	2,152.86	4,664.53	55,974.46
		STEP J	27.5754	41.3631	2,206.03	4,779.73	57,356.83
		STEP K	28.2564	42.3846	2,260.51	4,897.77	58,773.31
		STEP L	28.9542	43.4313	2,316.33	5,018.72	60,224.73
		STEP M	29.6692	44.5038	2,373.53	5,142.66	61,711.93
		STEP N	30.4019	45.6028	2,432.15	5,269.66	63,235.95
		STEP O	31.1527	46.7290	2,492.21	5,399.80	64,797.61
B542	WSTWTR TRMT PLT OPR GD III						
		STEP A	26.8881	40.3321	2,151.04	4,660.60	55,927.24
		STEP B	27.5519	41.3278	2,204.15	4,775.66	57,307.95
		STEP C	28.2324	42.3486	2,258.59	4,893.61	58,723.39
		STEP D	28.9296	43.3944	2,314.36	5,014.46	60,173.56
		STEP E	29.6440	44.4660	2,371.52	5,138.29	61,659.52
		STEP F	30.3761	45.5641	2,430.08	5,265.19	63,182.28
		STEP G	31.1262	46.6893	2,490.09	5,395.20	64,742.49
		STEP H	31.8949	47.8423	2,551.59	5,528.44	66,341.39
		STEP I	32.6825	49.0237	2,614.60	5,664.96	67,979.60
		STEP J	33.4897	50.2345	2,679.17	5,804.88	69,658.57
		STEP K	34.3167	51.4750	2,745.33	5,948.22	71,378.73
		STEP L	35.1642	52.7463	2,813.13	6,095.12	73,141.53
		STEP M	36.0325	54.0487	2,882.60	6,245.63	74,947.60
		STEP N	36.9224	55.3836	2,953.79	6,399.88	76,798.59
		STEP O	37.8342	56.7513	3,026.73	6,557.92	78,695.13
B544	WSTWTR TRMT PLT OPR GD IV						
		STEP A	32.3733	48.5599	2,589.86	5,611.37	67,336.46
		STEP B	33.1726	49.7589	2,653.80	5,749.91	68,999.00
		STEP C	33.9918	50.9877	2,719.34	5,891.91	70,702.94
		STEP D	34.8312	52.2468	2,786.49	6,037.40	72,448.89
		STEP E	35.6914	53.5371	2,855.31	6,186.50	74,238.11
		STEP F	36.5728	54.8592	2,925.82	6,339.28	76,071.42
		STEP G	37.4760	56.2140	2,998.08	6,495.84	77,950.08
		STEP H	38.4015	57.6022	3,072.12	6,656.26	79,875.12
		STEP I	39.3498	59.0247	3,147.98	6,820.63	81,847.58
		STEP J	40.3216	60.4824	3,225.72	6,989.07	83,868.92
		STEP K	41.3173	61.9759	3,305.38	7,161.66	85,939.98
		STEP L	42.3377	63.5065	3,387.01	7,338.53	88,062.41
		STEP M	43.3832	65.0748	3,470.65	7,519.75	90,237.05
		STEP N	44.4546	66.6819	3,556.36	7,705.46	92,465.56
		STEP O	45.5524	68.3286	3,644.19	7,895.74	94,748.99

CITY OF ROSEVILLE
SALARY SCHEDULE - B

Appendix: B

Percentage: 1.000

Effective Date: 03/05/2016

L39B LOCAL 39-B

Job Code	Title	Step	Hourly	O/T Hrly	Bi-weekly	Monthly	Annual
B543	WSTWTR TRMT PLT OPR GDIII 24HR						
		STEP A	20.6462	30.9693	2,312.37	5,010.14	60,121.73
		STEP B	21.1559	31.7338	2,369.46	5,133.83	61,605.98
		STEP C	21.6784	32.5176	2,427.98	5,260.62	63,127.50
		STEP D	22.2137	33.3205	2,487.93	5,390.52	64,686.29
		STEP E	22.7623	34.1434	2,549.37	5,523.65	66,283.81
		STEP F	23.3244	34.9866	2,612.33	5,660.05	67,920.65
		STEP G	23.9004	35.8506	2,676.84	5,799.83	69,597.96
		STEP H	24.4907	36.7360	2,742.95	5,943.07	71,316.91
		STEP I	25.0955	37.6432	2,810.69	6,089.84	73,078.09
		STEP J	25.7152	38.5728	2,880.10	6,240.22	74,882.66
		STEP K	26.3503	39.5254	2,951.23	6,394.33	76,732.07
		STEP L	27.0010	40.5015	3,024.11	6,552.24	78,626.91
		STEP M	27.6678	41.5017	3,098.79	6,714.05	80,568.63
		STEP N	28.3511	42.5266	3,175.32	6,879.86	82,558.40
		STEP O	29.0512	43.5768	3,253.73	7,049.75	84,597.09

ORDINANCE NO. 5643

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING
ORDINANCE NO. 5613, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES,
AS AMENDED BY APPENDIX "B" TO BE EFFECTIVE
MARCH 5, 2016, AS AN URGENCY MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Title and Purpose.

Ordinance No. 5613, the Salary Ordinance for Management Employees, is hereby amended as shown on Appendix "B" attached hereto, to reflect the following changes:

DELETION OF CLASSIFICATION:

<u>Classification No.</u>	<u>Position Title</u>	<u>Salary Range</u>
3600/B780	IT Planning & Policy Supervisor	4870
1025/B716	Building Maintenance Supervisor	4669

SECTION 2. Salary Plan Effective Date.

This Ordinance shall be effective March 5, 2016 as an urgency measure.

SECTION 3. Urgency Ordinance.

This ordinance is hereby declared to be an urgency measure, immediately necessary for the public peace, health and safety and shall take effect March 5, 2016. A statement of urgency is as follows:

It is necessary to amend the Salary Ordinance to comply with recently approved changes for the orderly and necessary continuance of operations of the City.

SECTION 4. Posting.

The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the Ordinance Book under the record of the ordinance a certificate under her hand stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
0041	ACCOUNTING MANAGER					
		STEP A	43.9697	3,517.57	7,621.41	91,456.97
		STEP B	46.1683	3,693.46	8,002.50	96,030.06
		STEP C	48.4769	3,878.15	8,402.66	100,831.95
		STEP D	50.9007	4,072.05	8,822.78	105,873.45
		STEP E	53.4457	4,275.65	9,263.92	111,167.05
		STEP F	56.1177	4,489.41	9,727.06	116,724.81
		STEP G	58.9238	4,713.90	10,213.45	122,561.50
0043	ACCOUNTING SUPERVISOR					
		STEP A	40.5385	3,243.08	7,026.67	84,320.08
		STEP B	42.5655	3,405.24	7,378.02	88,536.24
		STEP C	44.6937	3,575.49	7,746.90	92,962.89
		STEP D	46.9284	3,754.27	8,134.25	97,611.07
		STEP E	49.2748	3,941.98	8,540.96	102,491.58
		STEP F	51.7386	4,139.08	8,968.02	107,616.28
		STEP G	54.3255	4,346.04	9,416.42	112,997.04
0045	ADMIN ANALYST I					
		STEP A	33.2609	2,660.87	5,765.22	69,182.67
		STEP B	34.9239	2,793.91	6,053.47	72,641.71
		STEP C	36.6700	2,933.60	6,356.13	76,273.60
		STEP D	38.5037	3,080.29	6,673.97	80,087.69
		STEP E	40.4288	3,234.30	7,007.65	84,091.90
		STEP F	42.4503	3,396.02	7,358.05	88,296.62
		STEP G	44.5728	3,565.82	7,725.95	92,711.42
0050	ADMIN ANALYST II					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	38.4165	3,073.32	6,658.86	79,906.32
		STEP C	40.3372	3,226.97	6,991.78	83,901.37
		STEP D	42.3541	3,388.32	7,341.37	88,096.52
		STEP E	44.4717	3,557.73	7,708.42	92,501.13
		STEP F	46.6954	3,735.63	8,093.86	97,126.43
		STEP G	49.0301	3,922.40	8,498.55	101,982.60
0086	ALTERNATIVE TRANSP ANALYST I					
		STEP A	33.7583	2,700.66	5,851.43	70,217.26
		STEP B	35.4464	2,835.71	6,144.04	73,728.51
		STEP C	37.2187	2,977.49	6,451.24	77,414.89
		STEP D	39.0796	3,126.36	6,773.79	81,285.56
		STEP E	41.0335	3,282.68	7,112.47	85,349.68
		STEP F	43.0852	3,446.81	7,468.10	89,617.21
		STEP G	45.2396	3,619.16	7,841.53	94,098.36

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
0088	ALTERNATIVE TRANSP ANALYST II					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	38.4165	3,073.32	6,658.86	79,906.32
		STEP C	40.3372	3,226.97	6,991.78	83,901.37
		STEP D	42.3541	3,388.32	7,341.37	88,096.52
		STEP E	44.4717	3,557.73	7,708.42	92,501.13
		STEP F	46.6954	3,735.63	8,093.86	97,126.43
		STEP G	49.0301	3,922.40	8,498.55	101,982.60
0090	ALTERNATIVE TRANSP MGR					
		STEP A	46.6032	3,728.25	8,077.88	96,934.65
		STEP B	48.9333	3,914.66	8,481.77	101,781.26
		STEP C	51.3798	4,110.38	8,905.83	106,869.98
		STEP D	53.9487	4,315.89	9,351.10	112,213.29
		STEP E	56.6460	4,531.68	9,818.64	117,823.68
		STEP F	59.4785	4,758.28	10,309.60	123,715.28
		STEP G	62.4520	4,996.16	10,825.01	129,900.16
0245	ASST CITY ATTORNEY					
		STEP A	68.7340	5,498.72	11,913.89	142,966.72
		STEP B	72.1707	5,773.65	12,509.58	150,115.05
		STEP C	75.7791	6,062.32	13,135.04	157,620.52
		STEP D	79.5682	6,365.45	13,791.82	165,501.85
		STEP E	83.5467	6,683.73	14,481.42	173,777.13
		STEP F	87.7239	7,017.91	15,205.47	182,465.71
		STEP G	92.1102	7,368.81	15,965.76	191,589.21
0250	ASST CITY CLERK					
		STEP A	35.4741	2,837.92	6,148.84	73,786.12
		STEP B	37.2478	2,979.82	6,456.28	77,475.42
		STEP C	39.1102	3,128.81	6,779.10	81,349.21
		STEP D	41.0657	3,285.25	7,118.05	85,416.65
		STEP E	43.1191	3,449.52	7,473.97	89,687.72
		STEP F	45.2750	3,622.00	7,847.66	94,172.00
		STEP G	47.5387	3,803.09	8,240.04	98,880.49
0325	ASST CITY MANAGER					
		STEP A	74.0814	5,926.51	12,840.77	154,089.31
		STEP B	77.7854	6,222.83	13,482.80	161,793.63
		STEP C	81.6747	6,533.97	14,156.94	169,883.37
		STEP D	85.7585	6,860.68	14,864.80	178,377.68
		STEP E	90.0464	7,203.71	15,608.04	187,296.51
		STEP F	94.5487	7,563.89	16,388.44	196,661.29
		STEP G	99.2762	7,942.09	17,207.87	206,494.49

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
8553	ASST ELEC UTIL DIR-RESOURCES					
		STEP A	77.7298	6,218.38	13,473.16	161,677.98
		STEP B	81.6164	6,529.31	14,146.84	169,762.11
		STEP C	85.6972	6,855.77	14,854.18	178,250.17
		STEP D	89.9819	7,198.55	15,596.86	187,162.35
		STEP E	94.4811	7,558.48	16,376.72	196,520.68
		STEP F	99.2051	7,936.40	17,195.55	206,346.60
		STEP G	104.1655	8,333.24	18,055.35	216,664.24
0395	ASST ELEC UTIL DIRECTOR					
		STEP A	70.9719	5,677.75	12,301.79	147,621.55
		STEP B	74.5206	5,961.64	12,916.90	155,002.84
		STEP C	78.2466	6,259.72	13,562.74	162,752.92
		STEP D	82.1588	6,572.70	14,240.85	170,890.30
		STEP E	86.2668	6,901.34	14,952.91	179,434.94
		STEP F	90.5802	7,246.41	15,700.56	188,406.81
		STEP G	95.1093	7,608.74	16,485.61	197,827.34
0411	ASST EU DIRECTOR					
		STEP A	62.1514	4,972.11	10,772.90	129,274.91
		STEP B	65.2588	5,220.70	11,311.52	135,738.30
		STEP C	68.5218	5,481.74	11,877.11	142,525.34
		STEP D	71.9478	5,755.82	12,470.95	149,651.42
		STEP E	75.5453	6,043.62	13,094.51	157,134.22
		STEP F	79.3225	6,345.80	13,749.23	164,990.80
		STEP G	83.2886	6,663.08	14,436.69	173,240.28
0480	ASST FIRE CHIEF					
		STEP A	61.2592	4,900.73	10,618.26	127,419.13
		STEP B	64.3221	5,145.76	11,149.16	133,789.96
		STEP C	67.5383	5,403.06	11,706.63	140,479.66
		STEP D	70.9152	5,673.21	12,291.96	147,503.61
		STEP E	74.4609	5,956.87	12,906.55	154,878.67
		STEP F	78.1839	6,254.71	13,551.87	162,622.51
		STEP G	82.0932	6,567.45	14,229.48	170,753.85
0510	ASST POLICE CHIEF					
		STEP A	66.6657	5,333.25	11,555.38	138,664.65
		STEP B	69.9990	5,599.92	12,133.16	145,597.92
		STEP C	73.4990	5,879.92	12,739.82	152,877.92
		STEP D	77.1738	6,173.90	13,376.79	160,521.50
		STEP E	81.0326	6,482.60	14,045.65	168,547.80
		STEP F	85.0843	6,806.74	14,747.94	176,975.34
		STEP G	89.3384	7,147.07	15,485.32	185,823.87

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
0920	BILLING SERVICES MANAGER					
		STEP A	43.9697	3,517.57	7,621.41	91,456.97
		STEP B	46.1683	3,693.46	8,002.50	96,030.06
		STEP C	48.4769	3,878.15	8,402.66	100,831.95
		STEP D	50.9007	4,072.05	8,822.78	105,873.45
		STEP E	53.4457	4,275.65	9,263.92	111,167.05
		STEP F	56.1177	4,489.41	9,727.06	116,724.81
		STEP G	58.9238	4,713.90	10,213.45	122,561.50
1017	BLDG INSPECTION SUPERVISOR					
		STEP A	40.3307	3,226.45	6,990.65	83,887.85
		STEP B	42.3473	3,387.78	7,340.19	88,082.38
		STEP C	44.4646	3,557.16	7,707.19	92,486.36
		STEP D	46.6877	3,735.01	8,092.53	97,110.41
		STEP E	49.0223	3,921.78	8,497.19	101,966.38
		STEP F	51.4734	4,117.87	8,922.05	107,064.67
		STEP G	54.0470	4,323.76	9,368.14	112,417.76
1043	BLDG OFFICIAL					
		STEP A	49.8118	3,984.94	8,634.04	103,608.54
		STEP B	52.3024	4,184.19	9,065.74	108,788.99
		STEP C	54.9176	4,393.40	9,519.05	114,228.60
		STEP D	57.6634	4,613.07	9,994.98	119,939.87
		STEP E	60.5466	4,843.72	10,494.74	125,936.92
		STEP F	63.5740	5,085.92	11,019.49	132,233.92
		STEP G	66.7526	5,340.20	11,570.45	138,845.40
0910	BUDGET ANALYST I					
		STEP A	34.4334	2,754.67	5,968.45	71,621.47
		STEP B	36.1549	2,892.39	6,266.84	75,202.19
		STEP C	37.9628	3,037.02	6,580.21	78,962.62
		STEP D	39.8610	3,188.88	6,909.24	82,910.88
		STEP E	41.8541	3,348.32	7,254.71	87,056.52
		STEP F	43.9466	3,515.72	7,617.41	91,408.92
		STEP G	46.1440	3,691.52	7,998.29	95,979.52
0915	BUDGET ANALYST II					
		STEP A	37.3182	2,985.45	6,468.48	77,621.85
		STEP B	39.1840	3,134.72	6,791.89	81,502.72
		STEP C	41.1434	3,291.47	7,131.52	85,578.27
		STEP D	43.2005	3,456.04	7,488.08	89,857.04
		STEP E	45.3605	3,628.84	7,862.48	94,349.84
		STEP F	47.6286	3,810.28	8,255.62	99,067.48
		STEP G	50.0100	4,000.80	8,668.40	104,020.80

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
0930	BUDGET MANAGER					
		STEP A	43.9697	3,517.57	7,621.41	91,456.97
		STEP B	46.1683	3,693.46	8,002.50	96,030.06
		STEP C	48.4769	3,878.15	8,402.66	100,831.95
		STEP D	50.9007	4,072.05	8,822.78	105,873.45
		STEP E	53.4457	4,275.65	9,263.92	111,167.05
		STEP F	56.1177	4,489.41	9,727.06	116,724.81
		STEP G	58.9238	4,713.90	10,213.45	122,561.50
1050	BUSINESS SVCS ADMINISTRATOR					
		STEP A	42.3780	3,390.24	7,345.52	88,146.24
		STEP B	44.4970	3,559.76	7,712.81	92,553.76
		STEP C	46.7217	3,737.73	8,098.42	97,181.13
		STEP D	49.0581	3,924.64	8,503.40	102,040.84
		STEP E	51.5108	4,120.86	8,928.53	107,142.46
		STEP F	54.0864	4,326.91	9,374.97	112,499.71
		STEP G	56.7907	4,543.25	9,843.72	118,124.65
1125	CENTRAL SERVICES DIRECTOR					
		STEP A	55.5189	4,441.51	9,623.27	115,479.31
		STEP B	58.2948	4,663.58	10,104.43	121,253.18
		STEP C	61.2096	4,896.76	10,609.66	127,315.96
		STEP D	64.2701	5,141.60	11,140.15	133,681.80
		STEP E	67.4837	5,398.69	11,697.17	140,366.09
		STEP F	70.8579	5,668.63	12,282.03	147,384.43
		STEP G	74.4007	5,952.05	12,896.12	154,753.45
1245	CHIEF FINANCIAL OFFICER					
		STEP A	86.5875	6,927.00	15,008.50	180,102.00
		STEP B	90.9169	7,273.35	15,758.92	189,107.15
		STEP C	95.4628	7,637.02	16,546.88	198,562.62
		STEP D	100.2359	8,018.87	17,374.22	208,490.67
		STEP E	105.2477	8,419.81	18,242.93	218,915.21
		STEP F	110.5101	8,840.80	19,155.08	229,861.00
		STEP G	116.0356	9,282.84	20,112.83	241,354.04
1180	CHIEF INFORMATION OFFICER					
		STEP A	60.9892	4,879.13	10,571.46	126,857.53
		STEP B	64.0388	5,123.10	11,100.05	133,200.70
		STEP C	67.2407	5,379.25	11,655.05	139,860.65
		STEP D	70.6027	5,648.21	12,237.80	146,853.61
		STEP E	74.1329	5,930.63	12,849.70	154,196.43
		STEP F	77.8396	6,227.16	13,492.19	161,906.36
		STEP G	81.7316	6,538.52	14,166.81	170,001.72

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
1220	CITY CLERK					
		STEP A	55.5188	4,441.50	9,623.25	115,479.10
		STEP B	58.2948	4,663.58	10,104.43	121,253.18
		STEP C	61.2096	4,896.76	10,609.66	127,315.96
		STEP D	64.2701	5,141.60	11,140.15	133,681.80
		STEP E	67.4836	5,398.68	11,697.15	140,365.88
		STEP F	70.8579	5,668.63	12,282.03	147,384.43
		STEP G	74.4006	5,952.04	12,896.10	154,753.24
1224	CITY LIBRARIAN					
		STEP A	50.0106	4,000.84	8,668.50	104,022.04
		STEP B	52.5111	4,200.88	9,101.92	109,223.08
		STEP C	55.1365	4,410.92	9,556.99	114,683.92
		STEP D	57.8936	4,631.48	10,034.89	120,418.68
		STEP E	60.7880	4,863.04	10,536.58	126,439.04
		STEP F	63.8276	5,106.20	11,063.45	132,761.40
		STEP G	67.0190	5,361.52	11,616.62	139,399.52
1645	DEPT PUBLIC INFO OFFICER					
		STEP A	38.3214	3,065.71	6,642.37	79,708.51
		STEP B	40.2376	3,219.00	6,974.51	83,694.20
		STEP C	42.2491	3,379.92	7,323.17	87,878.12
		STEP D	44.3617	3,548.93	7,689.36	92,272.33
		STEP E	46.5799	3,726.39	8,073.84	96,886.19
		STEP F	48.9088	3,912.70	8,477.52	101,730.30
		STEP G	51.3546	4,108.36	8,901.46	106,817.56
1655	DEPUTY CITY ATTORNEY I					
		STEP A	49.3957	3,951.65	8,561.92	102,743.05
		STEP B	51.8655	4,149.24	8,990.02	107,880.24
		STEP C	54.4587	4,356.69	9,439.50	113,274.09
		STEP D	57.1817	4,574.53	9,911.49	118,937.93
		STEP E	60.0408	4,803.26	10,407.07	124,884.86
		STEP F	63.0429	5,043.43	10,927.43	131,129.23
		STEP G	66.1950	5,295.60	11,473.80	137,685.60
1658	DEPUTY CITY ATTORNEY II					
		STEP A	54.3352	4,346.81	9,418.10	113,017.21
		STEP B	57.0521	4,564.16	9,889.03	118,668.36
		STEP C	59.9047	4,792.37	10,383.48	124,601.77
		STEP D	62.8998	5,031.98	10,902.63	130,831.58
		STEP E	66.0450	5,283.60	11,447.80	137,373.60
		STEP F	69.3472	5,547.77	12,020.18	144,242.17
		STEP G	72.8145	5,825.16	12,621.18	151,454.16

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
1659	DEPUTY CITY MANAGER					
		STEP A	55.5189	4,441.51	9,623.27	115,479.31
		STEP B	58.2948	4,663.58	10,104.43	121,253.18
		STEP C	61.2096	4,896.76	10,609.66	127,315.96
		STEP D	64.2701	5,141.60	11,140.15	133,681.80
		STEP E	67.4837	5,398.69	11,697.17	140,366.09
		STEP F	70.8579	5,668.63	12,282.03	147,384.43
		STEP G	74.4007	5,952.05	12,896.12	154,753.45
1674	DEVELOPMENT ANALYST I					
		STEP A	33.2609	2,660.87	5,765.22	69,182.67
		STEP B	34.9239	2,793.91	6,053.47	72,641.71
		STEP C	36.6700	2,933.60	6,356.13	76,273.60
		STEP D	38.5037	3,080.29	6,673.97	80,087.69
		STEP E	40.4288	3,234.30	7,007.65	84,091.90
		STEP F	42.4503	3,396.02	7,358.05	88,296.62
		STEP G	44.5728	3,565.82	7,725.95	92,711.42
1675	DEVELOPMENT ANALYST II					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	38.4165	3,073.32	6,658.86	79,906.32
		STEP C	40.3372	3,226.97	6,991.78	83,901.37
		STEP D	42.3541	3,388.32	7,341.37	88,096.52
		STEP E	44.4717	3,557.73	7,708.42	92,501.13
		STEP F	46.6954	3,735.63	8,093.86	97,126.43
		STEP G	49.0301	3,922.40	8,498.55	101,982.60
1676	DEVELOPMENT SERVICES DIRECTOR					
		STEP A	67.1903	5,375.22	11,646.31	139,755.82
		STEP B	70.5498	5,643.98	12,228.63	146,743.58
		STEP C	74.0772	5,926.17	12,840.04	154,080.57
		STEP D	77.7812	6,222.49	13,482.07	161,784.89
		STEP E	81.6702	6,533.61	14,156.16	169,874.01
		STEP F	85.7538	6,860.30	14,863.99	178,367.90
		STEP G	90.0416	7,203.32	15,607.21	187,286.52
1695	DEVELOPMENT SERVICES MANAGER					
		STEP A	55.5189	4,441.51	9,623.27	115,479.31
		STEP B	58.2948	4,663.58	10,104.43	121,253.18
		STEP C	61.2096	4,896.76	10,609.66	127,315.96
		STEP D	64.2701	5,141.60	11,140.15	133,681.80
		STEP E	67.4837	5,398.69	11,697.17	140,366.09
		STEP F	70.8579	5,668.63	12,282.03	147,384.43
		STEP G	74.4007	5,952.05	12,896.12	154,753.45

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
1710	ECONOMIC DEVELOPMENT DIRECTOR					
		STEP A	64.6607	5,172.85	11,207.85	134,494.25
		STEP B	67.8939	5,431.51	11,768.27	141,219.31
		STEP C	71.2886	5,703.08	12,356.69	148,280.28
		STEP D	74.8529	5,988.23	12,974.50	155,694.03
		STEP E	78.5957	6,287.65	13,623.25	163,479.05
		STEP F	82.5255	6,602.04	14,304.42	171,653.04
		STEP G	86.6518	6,932.14	15,019.64	180,235.74
1712	ECONOMIC DEVELOPMENT MANAGER					
		STEP A	50.1075	4,008.60	8,685.30	104,223.60
		STEP B	52.6130	4,209.04	9,119.58	109,435.04
		STEP C	55.2436	4,419.48	9,575.55	114,906.68
		STEP D	58.0058	4,640.46	10,054.33	120,652.06
		STEP E	60.9060	4,872.48	10,557.04	126,684.48
		STEP F	63.9516	5,116.12	11,084.94	133,019.32
		STEP G	67.1490	5,371.92	11,639.16	139,669.92
1310	ELECTRIC BUSINESS ANALYST I					
		STEP A	39.3071	3,144.56	6,813.23	81,758.76
		STEP B	41.2726	3,301.80	7,153.91	85,847.00
		STEP C	43.3361	3,466.88	7,511.59	90,139.08
		STEP D	45.5029	3,640.23	7,887.16	94,646.03
		STEP E	47.7780	3,822.24	8,281.52	99,378.24
		STEP F	50.1669	4,013.35	8,695.59	104,347.15
		STEP G	52.6752	4,214.01	9,130.36	109,564.41
1312	ELECTRIC BUSINESS ANALYST II					
		STEP A	43.2416	3,459.32	7,495.21	89,942.52
		STEP B	45.4038	3,632.30	7,869.99	94,439.90
		STEP C	47.6740	3,813.92	8,263.49	99,161.92
		STEP D	50.0576	4,004.60	8,676.65	104,119.80
		STEP E	52.5605	4,204.84	9,110.48	109,325.84
		STEP F	55.1886	4,415.08	9,566.02	114,792.28
		STEP G	57.9480	4,635.84	10,044.32	120,531.84
2335	ELECTRIC COMPLIANCE ANALYST					
		STEP A	45.0209	3,601.67	7,803.62	93,643.47
		STEP B	47.2719	3,781.75	8,193.79	98,325.55
		STEP C	49.6356	3,970.84	8,603.50	103,242.04
		STEP D	52.1174	4,169.39	9,033.68	108,404.19
		STEP E	54.7232	4,377.85	9,485.35	113,824.25
		STEP F	57.4593	4,596.74	9,959.61	119,515.34
		STEP G	60.3323	4,826.58	10,457.59	125,491.18

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
2284	ELECTRIC ENGINEERING TECH SUPV					
		STEP A	47.8512	3,828.09	8,294.20	99,530.49
		STEP B	50.2436	4,019.48	8,708.89	104,506.68
		STEP C	52.7559	4,220.47	9,144.35	109,732.27
		STEP D	55.3937	4,431.49	9,601.57	115,218.89
		STEP E	58.1633	4,653.06	10,081.63	120,979.66
		STEP F	61.0715	4,885.72	10,585.72	127,028.72
		STEP G	64.1251	5,130.00	11,115.01	133,380.20
2280	ELECTRIC LINE CONST SUPERVISOR					
		STEP A	61.4415	4,915.32	10,649.86	127,798.32
		STEP B	64.5137	5,161.09	11,182.37	134,188.49
		STEP C	67.7392	5,419.13	11,741.46	140,897.53
		STEP D	71.1263	5,690.10	12,328.55	147,942.70
		STEP E	74.6826	5,974.60	12,944.98	155,339.80
		STEP F	78.4168	6,273.34	13,592.24	163,106.94
		STEP G	82.3374	6,586.99	14,271.81	171,261.79
2338	ELECTRIC OPERATIONS MANAGER					
		STEP A	67.5845	5,406.76	11,714.64	140,575.76
		STEP B	70.9637	5,677.09	12,300.37	147,604.49
		STEP C	74.5119	5,960.95	12,915.39	154,984.75
		STEP D	78.2374	6,258.99	13,561.14	162,733.79
		STEP E	82.1493	6,571.94	14,239.21	170,870.54
		STEP F	86.2569	6,900.55	14,951.19	179,414.35
		STEP G	90.5697	7,245.57	15,698.74	188,384.97
2346	ELECTRIC RATES & FINANCL ADMIN					
		STEP A	58.3337	4,666.69	10,111.17	121,334.09
		STEP B	61.2503	4,900.02	10,616.71	127,400.62
		STEP C	64.3128	5,145.02	11,147.55	133,770.62
		STEP D	67.5284	5,402.27	11,704.92	140,459.07
		STEP E	70.9049	5,672.39	12,290.18	147,482.19
		STEP F	74.4500	5,956.00	12,904.66	154,856.00
		STEP G	78.1726	6,253.80	13,549.91	162,599.00
2348	ELECTRIC REGU COMPLNCE ADMNSTR					
		STEP A	67.5845	5,406.76	11,714.64	140,575.76
		STEP B	70.9637	5,677.09	12,300.37	147,604.49
		STEP C	74.5119	5,960.95	12,915.39	154,984.75
		STEP D	78.2374	6,258.99	13,561.14	162,733.79
		STEP E	82.1493	6,571.94	14,239.21	170,870.54
		STEP F	86.2569	6,900.55	14,951.19	179,414.35
		STEP G	90.5697	7,245.57	15,698.74	188,384.97

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
2314	ELECTRIC RESOURCES ANALYST I					
		STEP A	47.9688	3,837.50	8,314.59	99,775.10
		STEP B	50.3673	4,029.38	8,730.33	104,763.98
		STEP C	52.8855	4,230.84	9,166.82	110,001.84
		STEP D	55.5300	4,442.40	9,625.20	115,502.40
		STEP E	58.3064	4,664.51	10,106.44	121,277.31
		STEP F	61.2217	4,897.73	10,611.76	127,341.13
		STEP G	64.2828	5,142.62	11,142.35	133,708.22
2316	ELECTRIC RESOURCES ANALYST II					
		STEP A	52.7703	4,221.62	9,146.85	109,762.22
		STEP B	55.4088	4,432.70	9,604.19	115,250.30
		STEP C	58.1792	4,654.33	10,084.39	121,012.73
		STEP D	61.0883	4,887.06	10,588.63	127,063.66
		STEP E	64.1427	5,131.41	11,118.06	133,416.81
		STEP F	67.3498	5,387.98	11,673.96	140,087.58
		STEP G	70.7172	5,657.37	12,257.64	147,091.77
6280	ELECTRIC RETAIL SERVICES SUPV					
		STEP A	54.7676	4,381.40	9,493.05	113,916.60
		STEP B	57.5059	4,600.47	9,967.68	119,612.27
		STEP C	60.3812	4,830.49	10,466.07	125,592.89
		STEP D	63.4002	5,072.01	10,989.36	131,872.41
		STEP E	66.5703	5,325.62	11,538.85	138,466.22
		STEP F	69.8987	5,591.89	12,115.77	145,389.29
		STEP G	73.3937	5,871.49	12,721.57	152,658.89
2354	ELECTRIC RISK MGMT ADMNSTR					
		STEP A	64.1688	5,133.50	11,122.59	133,471.10
		STEP B	67.3774	5,390.19	11,678.74	140,144.99
		STEP C	70.7462	5,659.69	12,262.67	147,152.09
		STEP D	74.2836	5,942.68	12,875.82	154,509.88
		STEP E	77.9977	6,239.81	13,519.60	162,235.21
		STEP F	81.8976	6,551.80	14,195.58	170,347.00
		STEP G	85.9924	6,879.39	14,905.34	178,864.19
2352	ELECTRIC SAFETY COORDINATOR					
		STEP A	36.5871	2,926.96	6,341.76	76,101.16
		STEP B	38.4164	3,073.31	6,658.84	79,906.11
		STEP C	40.3371	3,226.96	6,991.76	83,901.16
		STEP D	42.3539	3,388.31	7,341.34	88,096.11
		STEP E	44.4716	3,557.72	7,708.41	92,500.92
		STEP F	46.6952	3,735.61	8,093.83	97,126.01
		STEP G	49.0301	3,922.40	8,498.55	101,982.60

CITY OF ROSEVILLE

SALARY SCHEDULE A

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MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
2319	ELECTRIC SUBSTATION SUPERVISOR					
		STEP A	61.4415	4,915.32	10,649.86	127,798.32
		STEP B	64.5137	5,161.09	11,182.37	134,188.49
		STEP C	67.7392	5,419.13	11,741.46	140,897.53
		STEP D	71.1263	5,690.10	12,328.55	147,942.70
		STEP E	74.6826	5,974.60	12,944.98	155,339.80
		STEP F	78.4168	6,273.34	13,592.24	163,106.94
		STEP G	82.3374	6,586.99	14,271.81	171,261.79
2358	ELECTRIC TECHNOLOGY SYST SUPV					
		STEP A	50.0104	4,000.83	8,668.46	104,021.63
		STEP B	52.5110	4,200.88	9,101.90	109,222.88
		STEP C	55.1365	4,410.92	9,556.99	114,683.92
		STEP D	57.8934	4,631.47	10,034.85	120,418.27
		STEP E	60.7880	4,863.04	10,536.58	126,439.04
		STEP F	63.8273	5,106.18	11,063.39	132,760.78
		STEP G	67.0187	5,361.49	11,616.57	139,398.89
2320	ELECTRIC UTILITY DIRECTOR					
		STEP A	92.9432	7,435.45	16,110.15	193,321.85
		STEP B	97.5900	7,807.20	16,915.60	202,987.20
		STEP C	102.4696	8,197.56	17,761.39	213,136.76
		STEP D	107.5931	8,607.44	18,649.47	223,793.64
		STEP E	112.9728	9,037.82	19,581.95	234,983.42
		STEP F	118.6215	9,489.72	20,561.06	246,732.72
		STEP G	124.5526	9,964.20	21,589.11	259,069.40
2378	ELECTRONIC MAINT COORDINATOR					
		STEP A	39.2746	3,141.96	6,807.59	81,691.16
		STEP B	41.2384	3,299.07	7,147.98	85,775.87
		STEP C	43.3003	3,464.02	7,505.38	90,064.62
		STEP D	45.4653	3,637.22	7,880.65	94,567.82
		STEP E	47.7384	3,819.07	8,274.65	99,295.87
		STEP F	50.1254	4,010.03	8,688.40	104,260.83
		STEP G	52.6317	4,210.53	9,122.82	109,473.93
2415	EMS QUAL ASSURANCE COORDINATOR					
		STEP A	45.1917	3,615.33	7,833.22	93,998.73
		STEP B	47.4512	3,796.09	8,224.87	98,698.49
		STEP C	49.8239	3,985.91	8,636.14	103,633.71
		STEP D	52.3152	4,185.21	9,067.96	108,815.61
		STEP E	54.9309	4,394.47	9,521.35	114,256.27
		STEP F	57.6775	4,614.20	9,997.43	119,969.20
		STEP G	60.5613	4,844.90	10,497.29	125,967.50

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Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
2500	ENERGY SERVICES ACCOUNT REP I					
		STEP A	39.3599	3,148.79	6,822.38	81,868.59
		STEP B	41.3279	3,306.23	7,163.50	85,962.03
		STEP C	43.3942	3,471.53	7,521.66	90,259.93
		STEP D	45.5640	3,645.12	7,897.76	94,773.12
		STEP E	47.8421	3,827.36	8,292.63	99,511.56
		STEP F	50.2342	4,018.73	8,707.26	104,487.13
		STEP G	52.7459	4,219.67	9,142.62	109,711.47
2501	ENERGY SERVICES ACCOUNT REP II					
		STEP A	43.2959	3,463.67	7,504.62	90,055.47
		STEP B	45.4605	3,636.84	7,879.82	94,557.84
		STEP C	47.7337	3,818.69	8,273.84	99,286.09
		STEP D	50.1204	4,009.63	8,687.53	104,250.43
		STEP E	52.6264	4,210.11	9,121.90	109,462.91
		STEP F	55.2577	4,420.61	9,578.00	114,936.01
		STEP G	58.0206	4,641.64	10,056.90	120,682.84
1277	ENGINEERING MANAGER					
		STEP A	56.5013	4,520.10	9,793.55	117,522.70
		STEP B	59.3265	4,746.12	10,283.26	123,399.12
		STEP C	62.2925	4,983.40	10,797.36	129,568.40
		STEP D	65.4073	5,232.58	11,337.26	136,047.18
		STEP E	68.6775	5,494.20	11,904.10	142,849.20
		STEP F	72.1113	5,768.90	12,499.29	149,991.50
		STEP G	75.7169	6,057.35	13,124.26	157,491.15
2540	ENVIRONMENTAL COORDINATOR					
		STEP A	42.0752	3,366.01	7,293.03	87,516.41
		STEP B	44.1791	3,534.32	7,657.71	91,892.52
		STEP C	46.3881	3,711.04	8,040.60	96,487.24
		STEP D	48.7074	3,896.59	8,442.61	101,311.39
		STEP E	51.1428	4,091.42	8,864.75	106,377.02
		STEP F	53.6998	4,295.98	9,307.96	111,695.58
		STEP G	56.3849	4,510.79	9,773.38	117,280.59
2541	ENVIRONMENTAL UTIL COMPL ADMIN					
		STEP A	42.0733	3,365.86	7,292.70	87,512.46
		STEP B	44.1769	3,534.15	7,657.32	91,887.95
		STEP C	46.3857	3,710.85	8,040.18	96,482.25
		STEP D	48.7050	3,896.40	8,442.20	101,306.40
		STEP E	51.1401	4,091.20	8,864.28	106,371.40
		STEP F	53.6972	4,295.77	9,307.51	111,690.17
		STEP G	56.3820	4,510.56	9,772.88	117,274.56

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Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
1684	ENVIRONMENTAL UTIL DIRECTOR					
		STEP A	74.5054	5,960.43	12,914.26	154,971.23
		STEP B	78.2306	6,258.44	13,559.97	162,719.64
		STEP C	82.1421	6,571.36	14,237.96	170,855.56
		STEP D	86.2493	6,899.94	14,949.87	179,398.54
		STEP E	90.5617	7,244.93	15,697.36	188,368.33
		STEP F	95.0898	7,607.18	16,482.23	197,786.78
		STEP G	99.8443	7,987.54	17,306.34	207,676.14
2565	EQUIPMENT MAINT SUPERVISOR					
		STEP A	31.4681	2,517.44	5,454.47	65,453.64
		STEP B	33.0415	2,643.32	5,727.19	68,726.32
		STEP C	34.6936	2,775.48	6,013.55	72,162.68
		STEP D	36.4283	2,914.26	6,314.23	75,770.86
		STEP E	38.2497	3,059.97	6,629.94	79,559.37
		STEP F	40.1622	3,212.97	6,961.44	83,537.37
		STEP G	42.1703	3,373.62	7,309.51	87,714.22
3395	FACILITIES MANAGER					
		STEP A	40.5824	3,246.59	7,034.28	84,411.39
		STEP B	42.6113	3,408.90	7,385.95	88,631.50
		STEP C	44.7419	3,579.35	7,755.26	93,063.15
		STEP D	46.9790	3,758.32	8,143.02	97,716.32
		STEP E	49.3282	3,946.25	8,550.22	102,602.65
		STEP F	51.7947	4,143.57	8,977.74	107,732.97
		STEP G	54.3840	4,350.72	9,426.56	113,118.72
3301	FINANCE DIRECTOR					
		STEP A	67.0881	5,367.04	11,628.60	139,543.24
		STEP B	70.4426	5,635.40	12,210.05	146,520.60
		STEP C	73.9648	5,917.18	12,820.56	153,846.78
		STEP D	77.6629	6,213.03	13,461.56	161,538.83
		STEP E	81.5462	6,523.69	14,134.67	169,616.09
		STEP F	85.6235	6,849.88	14,841.40	178,096.88
		STEP G	89.9047	7,192.37	15,583.48	187,001.77
2900	FINANCE MANAGER					
		STEP A	43.9697	3,517.57	7,621.41	91,456.97
		STEP B	46.1683	3,693.46	8,002.50	96,030.06
		STEP C	48.4769	3,878.15	8,402.66	100,831.95
		STEP D	50.9007	4,072.05	8,822.78	105,873.45
		STEP E	53.4457	4,275.65	9,263.92	111,167.05
		STEP F	56.1177	4,489.41	9,727.06	116,724.81
		STEP G	58.9238	4,713.90	10,213.45	122,561.50

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Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
3310	FINANCE SUPERVISOR					
		STEP A	36.3377	2,907.01	6,298.53	75,582.41
		STEP B	38.1543	3,052.34	6,613.41	79,360.94
		STEP C	40.0622	3,204.97	6,944.11	83,329.37
		STEP D	42.0654	3,365.23	7,291.33	87,496.03
		STEP E	44.1686	3,533.48	7,655.89	91,870.68
		STEP F	46.3770	3,710.16	8,038.68	96,464.16
		STEP G	48.6957	3,895.65	8,440.58	101,287.05
3391	FIRE BATTALLION CHIEF (8HR)					
		STEP A	51.1945	4,095.56	8,873.71	106,484.56
		STEP B	53.1586	4,252.68	9,214.15	110,569.88
		STEP C	55.8162	4,465.29	9,674.80	116,097.69
		STEP D	58.6075	4,688.60	10,158.63	121,903.60
		STEP E	61.5376	4,923.00	10,666.51	127,998.20
		STEP F	64.6146	5,169.16	11,199.86	134,398.36
		STEP G	67.8453	5,427.62	11,759.85	141,118.22
0905	FIRE BATTALION CHIEF (24HR)					
		STEP A	36.1622	4,050.16	8,775.36	105,304.32
		STEP B	37.9704	4,252.68	9,214.15	110,569.80
		STEP C	39.8687	4,465.29	9,674.80	116,097.65
		STEP D	41.8625	4,688.60	10,158.63	121,903.60
		STEP E	43.9555	4,923.01	10,666.53	127,998.41
		STEP F	46.1533	5,169.16	11,199.86	134,398.40
		STEP G	48.4609	5,427.62	11,759.84	141,118.14
3330	FIRE CHIEF					
		STEP A	72.7667	5,821.33	12,612.89	151,354.73
		STEP B	76.4051	6,112.40	13,243.55	158,922.60
		STEP C	80.2252	6,418.01	13,905.70	166,868.41
		STEP D	84.2366	6,738.92	14,601.01	175,212.12
		STEP E	88.4484	7,075.87	15,331.05	183,972.67
		STEP F	92.8706	7,429.64	16,097.57	193,170.84
		STEP G	97.5142	7,801.13	16,902.46	202,829.53
3332	FIRE DIVISION CHIEF					
		STEP A	55.6902	4,455.21	9,652.96	115,835.61
		STEP B	58.4747	4,677.97	10,135.61	121,627.37
		STEP C	61.3984	4,911.87	10,642.38	127,708.67
		STEP D	64.4683	5,157.46	11,174.50	134,094.06
		STEP E	67.6918	5,415.34	11,733.24	140,798.94
		STEP F	71.0764	5,686.11	12,319.90	147,838.91
		STEP G	74.6301	5,970.40	12,935.88	155,230.60

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Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
3392	FLEET MANAGER	STEP A	40.5824	3,246.59	7,034.28	84,411.39
		STEP B	42.6113	3,408.90	7,385.95	88,631.50
		STEP C	44.7419	3,579.35	7,755.26	93,063.15
		STEP D	46.9790	3,758.32	8,143.02	97,716.32
		STEP E	49.3282	3,946.25	8,550.22	102,602.65
		STEP F	51.7947	4,143.57	8,977.74	107,732.97
		STEP G	54.3840	4,350.72	9,426.56	113,118.72
3451	GOVERNMENT RELATIONS ADMINISTR	STEP A	43.9043	3,512.34	7,610.07	91,320.94
		STEP B	46.0995	3,687.96	7,990.58	95,886.96
		STEP C	48.4044	3,872.35	8,390.09	100,681.15
		STEP D	50.8248	4,065.98	8,809.63	105,715.58
		STEP E	53.3660	4,269.28	9,250.10	111,001.28
		STEP F	56.0343	4,482.74	9,712.61	116,551.34
		STEP G	58.8358	4,706.86	10,198.20	122,378.46
3590	HOUSING SUPERVISOR	STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	38.4165	3,073.32	6,658.86	79,906.32
		STEP C	40.3372	3,226.97	6,991.78	83,901.37
		STEP D	42.3541	3,388.32	7,341.37	88,096.52
		STEP E	44.4717	3,557.73	7,708.42	92,501.13
		STEP F	46.6954	3,735.63	8,093.86	97,126.43
		STEP G	49.0301	3,922.40	8,498.55	101,982.60
3594	HUMAN RESOURCES ANALYST I	STEP A	32.2511	2,580.08	5,590.19	67,082.28
		STEP B	33.8636	2,709.08	5,869.69	70,436.28
		STEP C	35.5567	2,844.53	6,163.16	73,957.93
		STEP D	37.3346	2,986.76	6,471.33	77,655.96
		STEP E	39.2014	3,136.11	6,794.90	81,538.91
		STEP F	41.1614	3,292.91	7,134.64	85,615.71
		STEP G	43.2195	3,457.56	7,491.38	89,896.56
3596	HUMAN RESOURCES ANALYST II	STEP A	35.4797	2,838.37	6,149.81	73,797.77
		STEP B	37.2537	2,980.29	6,457.30	77,487.69
		STEP C	39.1163	3,129.30	6,780.15	81,361.90
		STEP D	41.0722	3,285.77	7,119.18	85,430.17
		STEP E	43.1258	3,450.06	7,475.13	89,701.66
		STEP F	45.2821	3,622.56	7,848.89	94,186.76
		STEP G	47.5462	3,803.69	8,241.34	98,896.09

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Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
3598	HUMAN RESOURCES DIRECTOR					
		STEP A	61.0708	4,885.66	10,585.60	127,027.26
		STEP B	64.1243	5,129.94	11,114.87	133,378.54
		STEP C	67.3305	5,386.44	11,670.62	140,047.44
		STEP D	70.6971	5,655.76	12,254.16	147,049.96
		STEP E	74.2321	5,938.56	12,866.89	154,402.76
		STEP F	77.9437	6,235.49	13,510.24	162,122.89
		STEP G	81.8408	6,547.26	14,185.73	170,228.86
3599	HUMAN RESOURCES MANAGER					
		STEP A	41.6683	3,333.46	7,222.50	86,670.06
		STEP B	43.7518	3,500.14	7,583.64	91,003.74
		STEP C	45.9395	3,675.16	7,962.84	95,554.16
		STEP D	48.2364	3,858.91	8,360.97	100,331.71
		STEP E	50.6482	4,051.85	8,779.02	105,348.25
		STEP F	53.1808	4,254.46	9,218.00	110,616.06
		STEP G	55.8398	4,467.18	9,678.89	116,146.78
3625	INFO SECURITY ADMINISTRATOR					
		STEP A	42.8581	3,428.64	7,428.73	89,144.84
		STEP B	45.0010	3,600.08	7,800.17	93,602.08
		STEP C	47.2510	3,780.08	8,190.17	98,282.08
		STEP D	49.6135	3,969.08	8,599.67	103,196.08
		STEP E	52.0942	4,167.53	9,029.66	108,355.93
		STEP F	54.6989	4,375.91	9,481.14	113,773.71
		STEP G	57.4339	4,594.71	9,955.20	119,462.51
3740	INTERPRETIVE SRVCS SUPERVISOR					
		STEP A	34.8445	2,787.56	6,039.71	72,476.56
		STEP B	36.5866	2,926.92	6,341.67	76,100.12
		STEP C	38.4161	3,073.28	6,658.79	79,905.48
		STEP D	40.3369	3,226.95	6,991.72	83,900.75
		STEP E	42.3537	3,388.29	7,341.30	88,095.69
		STEP F	44.4713	3,557.70	7,708.35	92,500.30
		STEP G	46.6949	3,735.59	8,093.78	97,125.39
3601	IT DIVISION MANAGER					
		STEP A	48.3018	3,864.14	8,372.31	100,467.74
		STEP B	50.7170	4,057.36	8,790.94	105,491.36
		STEP C	53.2529	4,260.23	9,230.50	110,766.03
		STEP D	55.9154	4,473.23	9,692.00	116,304.03
		STEP E	58.7112	4,696.89	10,176.60	122,119.29
		STEP F	61.6468	4,931.74	10,685.44	128,225.34
		STEP G	64.7291	5,178.32	11,219.71	134,636.52

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Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
3602	IT PROGRAM MANAGER					
		STEP A	43.9092	3,512.73	7,610.92	91,331.13
		STEP B	46.1046	3,688.36	7,991.46	95,897.56
		STEP C	48.4098	3,872.78	8,391.03	100,692.38
		STEP D	50.8304	4,066.43	8,810.60	105,727.23
		STEP E	53.3719	4,269.75	9,251.12	111,013.55
		STEP F	56.0403	4,483.22	9,713.65	116,563.82
		STEP G	58.8424	4,707.39	10,199.34	122,392.19
3810	KEY ACCOUNTS REPRESENTATIVE					
		STEP A	47.6233	3,809.86	8,254.70	99,056.46
		STEP B	50.0044	4,000.35	8,667.42	104,009.15
		STEP C	52.5047	4,200.37	9,100.81	109,209.77
		STEP D	55.1299	4,410.39	9,555.84	114,670.19
		STEP E	57.8863	4,630.90	10,033.62	120,403.50
		STEP F	60.7806	4,862.44	10,535.30	126,423.64
		STEP G	63.8196	5,105.56	11,062.06	132,744.76
4246	LIBRARY SUPERVISOR					
		STEP A	32.1157	2,569.25	5,566.72	66,800.65
		STEP B	33.7218	2,697.74	5,845.11	70,141.34
		STEP C	35.4077	2,832.61	6,137.33	73,648.01
		STEP D	37.1782	2,974.25	6,444.22	77,330.65
		STEP E	39.0370	3,122.96	6,766.41	81,196.96
		STEP F	40.9889	3,279.11	7,104.74	85,256.91
		STEP G	43.0383	3,443.06	7,459.97	89,519.66
4449	MANAGEMENT ANALYST					
		STEP A	38.4165	3,073.32	6,658.86	79,906.32
		STEP B	40.3372	3,226.97	6,991.78	83,901.37
		STEP C	42.3541	3,388.32	7,341.37	88,096.52
		STEP D	44.4717	3,557.73	7,708.42	92,501.13
		STEP E	46.6954	3,735.63	8,093.86	97,126.43
		STEP F	49.0301	3,922.40	8,498.55	101,982.60
		STEP G	51.4815	4,118.52	8,923.46	107,081.52
4509	MAPPING SUPERVISOR					
		STEP A	36.5871	2,926.96	6,341.76	76,101.16
		STEP B	38.4164	3,073.31	6,658.84	79,906.11
		STEP C	40.3371	3,226.96	6,991.76	83,901.16
		STEP D	42.3539	3,388.31	7,341.34	88,096.11
		STEP E	44.4716	3,557.72	7,708.41	92,500.92
		STEP F	46.6952	3,735.61	8,093.83	97,126.01
		STEP G	49.0301	3,922.40	8,498.55	101,982.60

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
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Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
4546	METER SERVICES SUPERVISOR					
		STEP A	32.1143	2,569.14	5,566.47	66,797.74
		STEP B	33.7200	2,697.60	5,844.80	70,137.60
		STEP C	35.4061	2,832.48	6,137.05	73,644.68
		STEP D	37.1762	2,974.09	6,443.87	77,326.49
		STEP E	39.0351	3,122.80	6,766.08	81,193.00
		STEP F	40.9869	3,278.95	7,104.39	85,252.75
		STEP G	43.0360	3,442.88	7,459.57	89,514.88
4960	OPEN SPACE SUPERINTENDENT					
		STEP A	40.3361	3,226.88	6,991.59	83,899.08
		STEP B	42.3530	3,388.24	7,341.18	88,094.24
		STEP C	44.4707	3,557.65	7,708.25	92,499.05
		STEP D	46.6942	3,735.53	8,093.66	97,123.93
		STEP E	49.0292	3,922.33	8,498.39	101,980.73
		STEP F	51.4803	4,118.42	8,923.25	107,079.02
		STEP G	54.0543	4,324.34	9,369.41	112,432.94
5020	PARK DEVELOPMENT ANALYST I					
		STEP A	33.2609	2,660.87	5,765.22	69,182.67
		STEP B	34.9239	2,793.91	6,053.47	72,641.71
		STEP C	36.6700	2,933.60	6,356.13	76,273.60
		STEP D	38.5037	3,080.29	6,673.97	80,087.69
		STEP E	40.4288	3,234.30	7,007.65	84,091.90
		STEP F	42.4503	3,396.02	7,358.05	88,296.62
		STEP G	44.5728	3,565.82	7,725.95	92,711.42
5022	PARK DEVELOPMENT ANALYST II					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	38.4165	3,073.32	6,658.86	79,906.32
		STEP C	40.3372	3,226.97	6,991.78	83,901.37
		STEP D	42.3541	3,388.32	7,341.37	88,096.52
		STEP E	44.4717	3,557.73	7,708.42	92,501.13
		STEP F	46.6954	3,735.63	8,093.86	97,126.43
		STEP G	49.0301	3,922.40	8,498.55	101,982.60
5024	PARK PLANNING & DEVELOPMT SUPT					
		STEP A	40.3363	3,226.90	6,991.62	83,899.50
		STEP B	42.3531	3,388.24	7,341.20	88,094.44
		STEP C	44.4708	3,557.66	7,708.27	92,499.26
		STEP D	46.6942	3,735.53	8,093.66	97,123.93
		STEP E	49.0293	3,922.34	8,498.41	101,980.94
		STEP F	51.4805	4,118.44	8,923.28	107,079.44
		STEP G	54.0543	4,324.34	9,369.41	112,432.94

CITY OF ROSEVILLE

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Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
5090	PARKS SUPERINTENDENT					
		STEP A	40.3363	3,226.90	6,991.62	83,899.50
		STEP B	42.3531	3,388.24	7,341.20	88,094.44
		STEP C	44.4708	3,557.66	7,708.27	92,499.26
		STEP D	46.6942	3,735.53	8,093.66	97,123.93
		STEP E	49.0293	3,922.34	8,498.41	101,980.94
		STEP F	51.4805	4,118.44	8,923.28	107,079.44
		STEP G	54.0543	4,324.34	9,369.41	112,432.94
5069	PARKS SUPERVISOR					
		STEP A	34.8445	2,787.56	6,039.71	72,476.56
		STEP B	36.5867	2,926.93	6,341.69	76,100.33
		STEP C	38.4162	3,073.29	6,658.80	79,905.69
		STEP D	40.3369	3,226.95	6,991.72	83,900.75
		STEP E	42.3537	3,388.29	7,341.30	88,095.69
		STEP F	44.4713	3,557.70	7,708.35	92,500.30
		STEP G	46.6949	3,735.59	8,093.78	97,125.39
5082	PARKS,REC & LIBRARIES DIRECTOR					
		STEP A	66.0802	5,286.41	11,453.90	137,446.81
		STEP B	69.3842	5,550.73	12,026.59	144,319.13
		STEP C	72.8533	5,828.26	12,627.90	151,534.86
		STEP D	76.4960	6,119.68	13,259.30	159,111.68
		STEP E	80.3208	6,425.66	13,922.27	167,067.26
		STEP F	84.3370	6,746.96	14,618.41	175,420.96
		STEP G	88.5538	7,084.30	15,349.32	184,191.90
5010	PARKS,REC & LIBRARY BUS ADMSTR					
		STEP A	40.2452	3,219.61	6,975.83	83,710.01
		STEP B	42.2576	3,380.60	7,324.65	87,895.80
		STEP C	44.3703	3,549.62	7,690.85	92,290.22
		STEP D	46.5888	3,727.10	8,075.39	96,904.70
		STEP E	48.9184	3,913.47	8,479.18	101,750.27
		STEP F	51.3641	4,109.12	8,903.11	106,837.32
		STEP G	53.9324	4,314.59	9,348.28	112,179.39
5309	PLANNING MANAGER					
		STEP A	55.5189	4,441.51	9,623.27	115,479.31
		STEP B	58.2948	4,663.58	10,104.43	121,253.18
		STEP C	61.2096	4,896.76	10,609.66	127,315.96
		STEP D	64.2701	5,141.60	11,140.15	133,681.80
		STEP E	67.4837	5,398.69	11,697.17	140,366.09
		STEP F	70.8579	5,668.63	12,282.03	147,384.43
		STEP G	74.4007	5,952.05	12,896.12	154,753.45

CITY OF ROSEVILLE

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MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
5400	POLICE CAPTAIN	STEP A	57.9703	4,637.62	10,048.18	120,578.22
		STEP B	60.8689	4,869.51	10,550.60	126,607.31
		STEP C	63.9122	5,112.97	11,078.11	132,937.37
		STEP D	67.1080	5,368.64	11,632.05	139,584.64
		STEP E	70.4634	5,637.07	12,213.65	146,563.87
		STEP F	73.9863	5,918.90	12,824.29	153,891.50
		STEP G	77.6857	6,214.85	13,465.52	161,586.25
5410	POLICE CHIEF	STEP A	77.9578	6,236.62	13,512.68	162,152.22
		STEP B	81.8558	6,548.46	14,188.33	170,260.06
		STEP C	85.9485	6,875.88	14,897.74	178,772.88
		STEP D	90.2460	7,219.68	15,642.64	187,711.68
		STEP E	94.7583	7,580.66	16,424.77	197,097.26
		STEP F	99.4962	7,959.69	17,246.00	206,952.09
		STEP G	104.4707	8,357.65	18,108.25	217,299.05
5420	POLICE LIEUTENANT	STEP A	52.6215	4,209.72	9,121.06	109,452.72
		STEP B	55.2526	4,420.20	9,577.11	114,925.40
		STEP C	58.0155	4,641.24	10,056.02	120,672.24
		STEP D	60.9162	4,873.29	10,558.80	126,705.69
		STEP E	63.9619	5,116.95	11,086.72	133,040.75
		STEP F	67.1599	5,372.79	11,641.04	139,692.59
		STEP G	70.5178	5,641.42	12,223.08	146,677.02
5489	POLICE SERVICES ADMINISTRATOR	STEP A	41.4691	3,317.52	7,187.97	86,255.72
		STEP B	43.5427	3,483.41	7,547.40	90,568.81
		STEP C	45.7198	3,657.58	7,924.76	95,097.18
		STEP D	48.0058	3,840.46	8,321.00	99,852.06
		STEP E	50.4061	4,032.48	8,737.05	104,844.68
		STEP F	52.9264	4,234.11	9,173.90	110,086.91
		STEP G	55.5728	4,445.82	9,632.61	115,591.42
5485	POLICE SOCIAL SVCS ADMINSTR	STEP A	43.9043	3,512.34	7,610.07	91,320.94
		STEP B	46.0995	3,687.96	7,990.58	95,886.96
		STEP C	48.4044	3,872.35	8,390.09	100,681.15
		STEP D	50.8248	4,065.98	8,809.63	105,715.58
		STEP E	53.3660	4,269.28	9,250.10	111,001.28
		STEP F	56.0343	4,482.74	9,712.61	116,551.34
		STEP G	58.8358	4,706.86	10,198.20	122,378.46

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MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
5505	POWER ENGINEERING MANAGER					
		STEP A	67.5845	5,406.76	11,714.64	140,575.76
		STEP B	70.9637	5,677.09	12,300.37	147,604.49
		STEP C	74.5119	5,960.95	12,915.39	154,984.75
		STEP D	78.2374	6,258.99	13,561.14	162,733.79
		STEP E	82.1493	6,571.94	14,239.21	170,870.54
		STEP F	86.2569	6,900.55	14,951.19	179,414.35
		STEP G	90.5697	7,245.57	15,698.74	188,384.97
5600	POWER GENERATION SUPERTINDENT					
		STEP A	62.0272	4,962.17	10,751.38	129,016.57
		STEP B	65.1286	5,210.28	11,288.95	135,467.48
		STEP C	68.3849	5,470.79	11,853.38	142,240.59
		STEP D	71.8041	5,744.32	12,446.04	149,352.52
		STEP E	75.3944	6,031.55	13,068.36	156,820.35
		STEP F	79.1642	6,333.13	13,721.79	164,661.53
		STEP G	83.1225	6,649.80	14,407.90	172,894.80
5530	POWER PLANT OPS & MAINT SUPV					
		STEP A	59.0692	4,725.53	10,238.66	122,863.93
		STEP B	62.0227	4,961.81	10,750.60	129,007.21
		STEP C	65.1239	5,209.91	11,288.14	135,457.71
		STEP D	68.3800	5,470.40	11,852.53	142,230.40
		STEP E	71.7990	5,743.92	12,445.16	149,341.92
		STEP F	75.3889	6,031.11	13,067.40	156,808.91
		STEP G	79.1584	6,332.67	13,720.78	164,649.47
5535	POWER SUPPLY & PORTFOLIO ADMST					
		STEP A	64.1688	5,133.50	11,122.59	133,471.10
		STEP B	67.3774	5,390.19	11,678.74	140,144.99
		STEP C	70.7462	5,659.69	12,262.67	147,152.09
		STEP D	74.2836	5,942.68	12,875.82	154,509.88
		STEP E	77.9977	6,239.81	13,519.60	162,235.21
		STEP F	81.8976	6,551.80	14,195.58	170,347.00
		STEP G	85.9924	6,879.39	14,905.34	178,864.19
5519	PREVENTATIVE MAINT SUPERVISOR					
		STEP A	42.7162	3,417.29	7,404.14	88,849.69
		STEP B	44.8518	3,588.14	7,774.31	93,291.74
		STEP C	47.0943	3,767.54	8,163.01	97,956.14
		STEP D	49.4492	3,955.93	8,571.19	102,854.33
		STEP E	51.9218	4,153.74	8,999.77	107,997.34
		STEP F	54.5179	4,361.43	9,449.76	113,397.23
		STEP G	57.2435	4,579.48	9,922.20	119,066.48

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MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
5514	PRINCIPAL ENGINEER					
		STEP A	50.2219	4,017.75	8,705.12	104,461.55
		STEP B	52.7328	4,218.62	9,140.35	109,684.22
		STEP C	55.3696	4,429.56	9,597.39	115,168.76
		STEP D	58.1381	4,651.04	10,077.27	120,927.24
		STEP E	61.0451	4,883.60	10,581.15	126,973.80
		STEP F	64.0975	5,127.80	11,110.23	133,322.80
		STEP G	67.3020	5,384.16	11,665.68	139,988.16
5513	PRINCIPAL PLANNER					
		STEP A	46.3792	3,710.33	8,039.06	96,468.73
		STEP B	48.6982	3,895.85	8,441.02	101,292.25
		STEP C	51.1330	4,090.64	8,863.05	106,356.64
		STEP D	53.6897	4,295.17	9,306.21	111,674.57
		STEP E	56.3742	4,509.93	9,771.52	117,258.33
		STEP F	59.1928	4,735.42	10,260.08	123,121.02
		STEP G	62.1526	4,972.20	10,773.11	129,277.40
5515	PUB AFFAIRS&COMMUNICAT ADMNSTR					
		STEP A	43.9043	3,512.34	7,610.07	91,320.94
		STEP B	46.0995	3,687.96	7,990.58	95,886.96
		STEP C	48.4044	3,872.35	8,390.09	100,681.15
		STEP D	50.8248	4,065.98	8,809.63	105,715.58
		STEP E	53.3660	4,269.28	9,250.10	111,001.28
		STEP F	56.0343	4,482.74	9,712.61	116,551.34
		STEP G	58.8358	4,706.86	10,198.20	122,378.46
5610	PUBLIC AFFAIRS&COMMNCT DIRCTOR					
		STEP A	55.5188	4,441.50	9,623.25	115,479.10
		STEP B	58.2948	4,663.58	10,104.43	121,253.18
		STEP C	61.2096	4,896.76	10,609.66	127,315.96
		STEP D	64.2701	5,141.60	11,140.15	133,681.80
		STEP E	67.4836	5,398.68	11,697.15	140,365.88
		STEP F	70.8579	5,668.63	12,282.03	147,384.43
		STEP G	74.4006	5,952.04	12,896.10	154,753.24
5565	PUBLIC INFORMATION OFFICER					
		STEP A	39.5842	3,166.73	6,861.26	82,335.13
		STEP B	41.5635	3,325.08	7,204.34	86,452.08
		STEP C	43.6417	3,491.33	7,564.56	90,774.73
		STEP D	45.8237	3,665.89	7,942.77	95,313.29
		STEP E	48.1148	3,849.18	8,339.89	100,078.78
		STEP F	50.5207	4,041.65	8,756.92	105,083.05
		STEP G	53.0467	4,243.73	9,194.76	110,337.13

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MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
5635	PUBLIC WORKS DIRECTOR					
		STEP A	60.9892	4,879.13	10,571.46	126,857.53
		STEP B	64.0388	5,123.10	11,100.05	133,200.70
		STEP C	67.2407	5,379.25	11,655.05	139,860.65
		STEP D	70.6027	5,648.21	12,237.80	146,853.61
		STEP E	74.1329	5,930.63	12,849.70	154,196.43
		STEP F	77.8396	6,227.16	13,492.19	161,906.36
		STEP G	81.7316	6,538.52	14,166.81	170,001.72
5652	PURCHASING & WAREHOUSE MANAGER					
		STEP A	40.7316	3,258.52	7,060.14	84,721.72
		STEP B	42.7680	3,421.44	7,413.12	88,957.44
		STEP C	44.9065	3,592.52	7,783.79	93,405.52
		STEP D	47.1518	3,772.14	8,172.97	98,075.74
		STEP E	49.5096	3,960.76	8,581.66	102,979.96
		STEP F	51.9851	4,158.80	9,010.75	108,129.00
		STEP G	54.5840	4,366.72	9,461.22	113,534.72
6125	RECREATION MANAGER					
		STEP A	46.0837	3,686.69	7,987.84	95,854.09
		STEP B	48.3880	3,871.04	8,387.25	100,647.04
		STEP C	50.8072	4,064.57	8,806.58	105,678.97
		STEP D	53.3476	4,267.80	9,246.91	110,963.00
		STEP E	56.0151	4,481.20	9,709.28	116,511.40
		STEP F	58.8160	4,705.28	10,194.77	122,337.28
		STEP G	61.7566	4,940.52	10,704.47	128,453.72
6145	RECREATION SUPERINTENDENT					
		STEP A	40.3363	3,226.90	6,991.62	83,899.50
		STEP B	42.3531	3,388.24	7,341.20	88,094.44
		STEP C	44.4708	3,557.66	7,708.27	92,499.26
		STEP D	46.6942	3,735.53	8,093.66	97,123.93
		STEP E	49.0293	3,922.34	8,498.41	101,980.94
		STEP F	51.4805	4,118.44	8,923.28	107,079.44
		STEP G	54.0543	4,324.34	9,369.41	112,432.94
6147	RECREATION SUPERVISOR					
		STEP A	34.8445	2,787.56	6,039.71	72,476.56
		STEP B	36.5867	2,926.93	6,341.69	76,100.33
		STEP C	38.4162	3,073.29	6,658.80	79,905.69
		STEP D	40.3369	3,226.95	6,991.72	83,900.75
		STEP E	42.3537	3,388.29	7,341.30	88,095.69
		STEP F	44.4713	3,557.70	7,708.35	92,500.30
		STEP G	46.6949	3,735.59	8,093.78	97,125.39

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Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
6231	REFUSE SUPERINTENDENT					
		STEP A	40.0712	3,205.69	6,945.67	83,348.09
		STEP B	42.0747	3,365.97	7,292.94	87,515.37
		STEP C	44.1783	3,534.26	7,657.57	91,890.86
		STEP D	46.3875	3,711.00	8,040.50	96,486.00
		STEP E	48.7067	3,896.53	8,442.49	101,309.93
		STEP F	51.1420	4,091.36	8,864.61	106,375.36
		STEP G	53.6991	4,295.92	9,307.84	111,694.12
6235	REFUSE SUPERVISOR					
		STEP A	33.7592	2,700.73	5,851.59	70,219.13
		STEP B	35.4472	2,835.77	6,144.18	73,730.17
		STEP C	37.2197	2,977.57	6,451.41	77,416.97
		STEP D	39.0799	3,126.39	6,773.84	81,286.19
		STEP E	41.0339	3,282.71	7,112.54	85,350.51
		STEP F	43.0854	3,446.83	7,468.13	89,617.63
		STEP G	45.2399	3,619.19	7,841.58	94,098.99
6242	REFUSE UTILITY MANAGER					
		STEP A	50.8512	4,068.09	8,814.20	105,770.49
		STEP B	53.3936	4,271.48	9,254.89	111,058.68
		STEP C	56.0634	4,485.07	9,717.65	116,611.87
		STEP D	58.8664	4,709.31	10,203.50	122,442.11
		STEP E	61.8098	4,944.78	10,713.69	128,564.38
		STEP F	64.9004	5,192.03	11,249.40	134,992.83
		STEP G	68.1453	5,451.62	11,811.85	141,742.22
6450	RISK MANAGER					
		STEP A	44.2702	3,541.61	7,673.50	92,082.01
		STEP B	46.4838	3,718.70	8,057.19	96,686.30
		STEP C	48.8080	3,904.64	8,460.05	101,520.64
		STEP D	51.2482	4,099.85	8,883.02	106,596.25
		STEP E	53.8108	4,304.86	9,327.20	111,926.46
		STEP F	56.5012	4,520.09	9,793.54	117,522.49
		STEP G	59.3263	4,746.10	10,283.22	123,398.70
6500	SAFETY COORDINATOR					
		STEP A	36.5871	2,926.96	6,341.76	76,101.16
		STEP B	38.4164	3,073.31	6,658.84	79,906.11
		STEP C	40.3371	3,226.96	6,991.76	83,901.16
		STEP D	42.3539	3,388.31	7,341.34	88,096.11
		STEP E	44.4716	3,557.72	7,708.41	92,500.92
		STEP F	46.6952	3,735.61	8,093.83	97,126.01
		STEP G	49.0301	3,922.40	8,498.55	101,982.60

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
7130	SR BUSINESS SYSTEMS ANALYST					
		STEP A	34.7663	2,781.30	6,026.15	72,313.90
		STEP B	36.5046	2,920.36	6,327.46	75,929.56
		STEP C	38.3298	3,066.38	6,643.83	79,725.98
		STEP D	40.2463	3,219.70	6,976.02	83,712.30
		STEP E	42.2586	3,380.68	7,324.82	87,897.88
		STEP F	44.3716	3,549.72	7,691.07	92,292.92
		STEP G	46.5900	3,727.20	8,075.60	96,907.20
7145	SR DATABASE ANALYST					
		STEP A	38.1818	3,054.54	6,618.17	79,418.14
		STEP B	40.0910	3,207.28	6,949.10	83,389.28
		STEP C	42.0955	3,367.64	7,296.55	87,558.64
		STEP D	44.2002	3,536.01	7,661.36	91,936.41
		STEP E	46.4103	3,712.82	8,044.45	96,533.42
		STEP F	48.7307	3,898.45	8,446.65	101,359.85
		STEP G	51.1673	4,093.38	8,869.00	106,427.98
7123	SR DEPUTY CITY ATTORNEY					
		STEP A	59.7687	4,781.49	10,359.90	124,318.89
		STEP B	62.7574	5,020.59	10,877.94	130,535.39
		STEP C	65.8951	5,271.60	11,421.81	137,061.80
		STEP D	69.1899	5,535.19	11,992.91	143,914.99
		STEP E	72.6495	5,811.96	12,592.58	151,110.96
		STEP F	76.2818	6,102.54	13,222.17	158,666.14
		STEP G	80.0958	6,407.66	13,883.27	166,599.26
7128	SR ELECTRIC BUSINESS ANALYST					
		STEP A	47.5668	3,805.34	8,244.91	98,938.94
		STEP B	49.9452	3,995.61	8,657.16	103,886.01
		STEP C	52.4425	4,195.40	9,090.03	109,080.40
		STEP D	55.0646	4,405.16	9,544.53	114,534.36
		STEP E	57.8179	4,625.43	10,021.76	120,261.23
		STEP F	60.7088	4,856.70	10,522.85	126,274.30
		STEP G	63.7442	5,099.53	11,048.99	132,587.93
7163	SR ENERGY SERVICES ACCOUNT REP					
		STEP A	47.6233	3,809.86	8,254.70	99,056.46
		STEP B	50.0044	4,000.35	8,667.42	104,009.15
		STEP C	52.5047	4,200.37	9,100.81	109,209.77
		STEP D	55.1299	4,410.39	9,555.84	114,670.19
		STEP E	57.8863	4,630.90	10,033.62	120,403.50
		STEP F	60.7806	4,862.44	10,535.30	126,423.64
		STEP G	63.8196	5,105.56	11,062.06	132,744.76

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
7142	SR ENGINEER					
		STEP A	42.7247	3,417.97	7,405.61	88,867.37
		STEP B	44.8610	3,588.88	7,775.90	93,310.88
		STEP C	47.1040	3,768.32	8,164.69	97,976.32
		STEP D	49.4593	3,956.74	8,572.94	102,875.34
		STEP E	51.9321	4,154.56	9,001.56	108,018.76
		STEP F	54.5288	4,362.30	9,451.65	113,419.90
		STEP G	57.2552	4,580.41	9,924.23	119,090.81
7150	SR HUMAN RESOURCES ANALYST					
		STEP A	38.4165	3,073.32	6,658.86	79,906.32
		STEP B	40.3372	3,226.97	6,991.78	83,901.37
		STEP C	42.3541	3,388.32	7,341.37	88,096.52
		STEP D	44.4717	3,557.73	7,708.42	92,501.13
		STEP E	46.6954	3,735.63	8,093.86	97,126.43
		STEP F	49.0301	3,922.40	8,498.55	101,982.60
		STEP G	51.4815	4,118.52	8,923.46	107,081.52
7194	SR IT ANALYST					
		STEP A	34.8115	2,784.92	6,033.99	72,407.92
		STEP B	36.5520	2,924.16	6,335.68	76,028.16
		STEP C	38.3796	3,070.36	6,652.46	79,829.56
		STEP D	40.2987	3,223.89	6,985.10	83,821.29
		STEP E	42.3135	3,385.08	7,334.34	88,012.08
		STEP F	44.4293	3,554.34	7,701.07	92,412.94
		STEP G	46.6506	3,732.04	8,086.10	97,033.24
7180	SR PLANNER					
		STEP A	40.3307	3,226.45	6,990.65	83,887.85
		STEP B	42.3473	3,387.78	7,340.19	88,082.38
		STEP C	44.4646	3,557.16	7,707.19	92,486.36
		STEP D	46.6877	3,735.01	8,092.53	97,110.41
		STEP E	49.0223	3,921.78	8,497.19	101,966.38
		STEP F	51.4734	4,117.87	8,922.05	107,064.67
		STEP G	54.0470	4,323.76	9,368.14	112,417.76
7151	SR POWER ENGINEER					
		STEP A	59.8134	4,785.07	10,367.65	124,411.87
		STEP B	62.8043	5,024.34	10,886.07	130,632.94
		STEP C	65.9443	5,275.54	11,430.34	137,164.14
		STEP D	69.2416	5,539.32	12,001.87	144,022.52
		STEP E	72.7036	5,816.28	12,601.95	151,223.48
		STEP F	76.3389	6,107.11	13,232.07	158,784.91
		STEP G	80.1558	6,412.46	13,893.67	166,724.06

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
5555	SR POWER PLANT ENGINEER					
		STEP A	59.8134	4,785.07	10,367.65	124,411.87
		STEP B	62.8043	5,024.34	10,886.07	130,632.94
		STEP C	65.9443	5,275.54	11,430.34	137,164.14
		STEP D	69.2416	5,539.32	12,001.87	144,022.52
		STEP E	72.7036	5,816.28	12,601.95	151,223.48
		STEP F	76.3389	6,107.11	13,232.07	158,784.91
		STEP G	80.1558	6,412.46	13,893.67	166,724.06
7520	STREET MAINT SUPERINTENDENT					
		STEP A	42.7162	3,417.29	7,404.14	88,849.69
		STEP B	44.8518	3,588.14	7,774.31	93,291.74
		STEP C	47.0943	3,767.54	8,163.01	97,956.14
		STEP D	49.4492	3,955.93	8,571.19	102,854.33
		STEP E	51.9218	4,153.74	8,999.77	107,997.34
		STEP F	54.5179	4,361.43	9,449.76	113,397.23
		STEP G	57.2435	4,579.48	9,922.20	119,066.48
7522	STREET MAINT SUPERVISOR					
		STEP A	32.5213	2,601.70	5,637.02	67,644.30
		STEP B	34.1472	2,731.77	5,918.84	71,026.17
		STEP C	35.8546	2,868.36	6,214.79	74,577.56
		STEP D	37.6474	3,011.79	6,525.54	78,306.59
		STEP E	39.5298	3,162.38	6,851.83	82,221.98
		STEP F	41.5063	3,320.50	7,194.42	86,333.10
		STEP G	43.5816	3,486.52	7,554.14	90,649.72
8762	URBAN FORESTER					
		STEP A	34.8445	2,787.56	6,039.71	72,476.56
		STEP B	36.5866	2,926.92	6,341.67	76,100.12
		STEP C	38.4161	3,073.28	6,658.79	79,905.48
		STEP D	40.3369	3,226.95	6,991.72	83,900.75
		STEP E	42.3537	3,388.29	7,341.30	88,095.69
		STEP F	44.4713	3,557.70	7,708.35	92,500.30
		STEP G	46.6949	3,735.59	8,093.78	97,125.39
9047	WATER CONSERVATION ADMINSTR					
		STEP A	38.4381	3,075.04	6,662.60	79,951.24
		STEP B	40.3601	3,228.80	6,995.75	83,949.00
		STEP C	42.3780	3,390.24	7,345.52	88,146.24
		STEP D	44.4970	3,559.76	7,712.81	92,553.76
		STEP E	46.7218	3,737.74	8,098.44	97,181.34
		STEP F	49.0582	3,924.65	8,503.42	102,041.05
		STEP G	51.5109	4,120.87	8,928.55	107,142.67

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
9084	WATER DISTRIBUTION SUPERVISOR					
		STEP A	34.8445	2,787.56	6,039.71	72,476.56
		STEP B	36.5867	2,926.93	6,341.69	76,100.33
		STEP C	38.4162	3,073.29	6,658.80	79,905.69
		STEP D	40.3369	3,226.95	6,991.72	83,900.75
		STEP E	42.3537	3,388.29	7,341.30	88,095.69
		STEP F	44.4713	3,557.70	7,708.35	92,500.30
		STEP G	46.6949	3,735.59	8,093.78	97,125.39
9101	WATER QUALITY LAB SUPERVISOR					
		STEP A	36.5854	2,926.83	6,341.46	76,097.63
		STEP B	38.4146	3,073.16	6,658.53	79,902.36
		STEP C	40.3354	3,226.83	6,991.46	83,897.63
		STEP D	42.3521	3,388.16	7,341.03	88,092.36
		STEP E	44.4698	3,557.58	7,708.09	92,497.18
		STEP F	46.6932	3,735.45	8,093.48	97,121.85
		STEP G	49.0277	3,922.21	8,498.13	101,977.61
9175	WATER TRMT PLT CHIEF OPERATOR					
		STEP A	41.8116	3,344.92	7,247.34	86,968.12
		STEP B	43.9023	3,512.18	7,609.73	91,316.78
		STEP C	46.0973	3,687.78	7,990.19	95,882.38
		STEP D	48.4023	3,872.18	8,389.73	100,676.78
		STEP E	50.8222	4,065.77	8,809.18	105,710.17
		STEP F	53.3634	4,269.07	9,249.65	110,995.87
		STEP G	56.0315	4,482.52	9,712.12	116,545.52
9244	WATER UTILITY MANAGER					
		STEP A	56.5013	4,520.10	9,793.55	117,522.70
		STEP B	59.3265	4,746.12	10,283.26	123,399.12
		STEP C	62.2925	4,983.40	10,797.36	129,568.40
		STEP D	65.4073	5,232.58	11,337.26	136,047.18
		STEP E	68.6775	5,494.20	11,904.10	142,849.20
		STEP F	72.1113	5,768.90	12,499.29	149,991.50
		STEP G	75.7169	6,057.35	13,124.26	157,491.15
8980	WSTWTR COLLECTION SUPT					
		STEP A	42.7094	3,416.75	7,402.96	88,835.55
		STEP B	44.8448	3,587.58	7,773.09	93,277.18
		STEP C	47.0871	3,766.96	8,161.76	97,941.16
		STEP D	49.4415	3,955.32	8,569.86	102,838.32
		STEP E	51.9135	4,153.08	8,998.34	107,980.08
		STEP F	54.5093	4,360.74	9,448.27	113,379.34
		STEP G	57.2346	4,578.76	9,920.66	119,047.96

CITY OF ROSEVILLE

SALARY SCHEDULE A

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGMT MANAGEMENT

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
8978	WSTWTR COLLECTION SUPV					
		STEP A	34.8446	2,787.56	6,039.73	72,476.76
		STEP B	36.5867	2,926.93	6,341.69	76,100.33
		STEP C	38.4162	3,073.29	6,658.80	79,905.69
		STEP D	40.3369	3,226.95	6,991.72	83,900.75
		STEP E	42.3538	3,388.30	7,341.32	88,095.90
		STEP F	44.4713	3,557.70	7,708.35	92,500.30
		STEP G	46.6949	3,735.59	8,093.78	97,125.39
9040	WSTWTR TRMT PLT CHIEF OPERATOR					
		STEP A	45.9928	3,679.42	7,972.08	95,665.02
		STEP B	48.2926	3,863.40	8,370.71	100,448.60
		STEP C	50.7070	4,056.56	8,789.21	105,470.56
		STEP D	53.2425	4,259.40	9,228.70	110,744.40
		STEP E	55.9044	4,472.35	9,690.09	116,281.15
		STEP F	58.6998	4,695.98	10,174.63	122,095.58
		STEP G	61.6346	4,930.76	10,683.33	128,199.96
9045	WSTWTR UTILITY MANAGER					
		STEP A	56.5013	4,520.10	9,793.55	117,522.70
		STEP B	59.3265	4,746.12	10,283.26	123,399.12
		STEP C	62.2925	4,983.40	10,797.36	129,568.40
		STEP D	65.4073	5,232.58	11,337.26	136,047.18
		STEP E	68.6775	5,494.20	11,904.10	142,849.20
		STEP F	72.1113	5,768.90	12,499.29	149,991.50
		STEP G	75.7169	6,057.35	13,124.26	157,491.15

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B700	ACCOUNTING MANAGER					
		STEP A	43.9697	3,517.57	7,621.41	91,456.97
		STEP B	45.0552	3,604.41	7,809.56	93,714.81
		STEP C	46.1679	3,693.43	8,002.43	96,029.23
		STEP D	47.3081	3,784.64	8,200.07	98,400.84
		STEP E	48.4764	3,878.11	8,402.57	100,830.91
		STEP F	49.6736	3,973.88	8,610.09	103,321.08
		STEP G	50.9003	4,072.02	8,822.71	105,872.62
		STEP H	52.1574	4,172.59	9,040.61	108,487.39
		STEP I	53.4454	4,275.63	9,263.86	111,166.43
		STEP J	54.7653	4,381.22	9,492.65	113,911.82
		STEP K	56.1178	4,489.42	9,727.08	116,725.02
		STEP L	57.5037	4,600.29	9,967.30	119,607.69
		STEP M	58.9238	4,713.90	10,213.45	122,561.50
B701	ACCOUNTING SUPERVISOR					
		STEP A	40.5385	3,243.08	7,026.67	84,320.08
		STEP B	41.5392	3,323.13	7,200.12	86,401.53
		STEP C	42.5651	3,405.20	7,377.95	88,535.40
		STEP D	43.6163	3,489.30	7,560.15	90,721.90
		STEP E	44.6934	3,575.47	7,746.85	92,962.27
		STEP F	45.7971	3,663.76	7,938.16	95,257.96
		STEP G	46.9282	3,754.25	8,134.22	97,610.65
		STEP H	48.0871	3,846.96	8,335.09	100,021.16
		STEP I	49.2747	3,941.97	8,540.94	102,491.37
		STEP J	50.4915	4,039.32	8,751.86	105,022.32
		STEP K	51.7385	4,139.08	8,968.00	107,616.08
		STEP L	53.0162	4,241.29	9,189.47	110,273.69
		STEP M	54.3255	4,346.04	9,416.42	112,997.04
B702	ADMIN ANALYST I					
		STEP A	33.2609	2,660.87	5,765.22	69,182.67
		STEP B	34.0820	2,726.56	5,907.54	70,890.56
		STEP C	34.9236	2,793.88	6,053.42	72,641.08
		STEP D	35.7861	2,862.88	6,202.92	74,435.08
		STEP E	36.6699	2,933.59	6,356.11	76,273.39
		STEP F	37.5755	3,006.04	6,513.08	78,157.04
		STEP G	38.5035	3,080.28	6,673.94	80,087.28
		STEP H	39.4543	3,156.34	6,838.74	82,064.94
		STEP I	40.4287	3,234.29	7,007.64	84,091.69
		STEP J	41.4271	3,314.16	7,180.69	86,168.36
		STEP K	42.4502	3,396.01	7,358.03	88,296.41
		STEP L	43.4986	3,479.88	7,539.75	90,477.08
		STEP M	44.5728	3,565.82	7,725.95	92,711.42

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B703	ADMIN ANALYST II					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	37.4902	2,999.21	6,498.30	77,979.61
		STEP C	38.4160	3,073.28	6,658.77	79,905.28
		STEP D	39.3647	3,149.17	6,823.21	81,878.57
		STEP E	40.3369	3,226.95	6,991.72	83,900.75
		STEP F	41.3331	3,306.64	7,164.40	85,972.84
		STEP G	42.3538	3,388.30	7,341.32	88,095.90
		STEP H	43.3998	3,471.98	7,522.63	90,271.58
		STEP I	44.4716	3,557.72	7,708.41	92,500.92
		STEP J	45.5699	3,645.59	7,898.78	94,785.39
		STEP K	46.6952	3,735.61	8,093.83	97,126.01
		STEP L	47.8484	3,827.87	8,293.72	99,524.67
		STEP M	49.0301	3,922.40	8,498.55	101,982.60
B704	ALTERNATIVE TRANSP ANALYST I					
		STEP A	33.7583	2,700.66	5,851.43	70,217.26
		STEP B	34.5918	2,767.34	5,995.91	71,950.94
		STEP C	35.4461	2,835.68	6,143.99	73,727.88
		STEP D	36.3215	2,905.72	6,295.72	75,548.72
		STEP E	37.2185	2,977.48	6,451.20	77,414.48
		STEP F	38.1376	3,051.00	6,610.51	79,326.20
		STEP G	39.0795	3,126.36	6,773.78	81,285.36
		STEP H	40.0446	3,203.56	6,941.06	83,292.76
		STEP I	41.0335	3,282.68	7,112.47	85,349.68
		STEP J	42.0469	3,363.75	7,288.12	87,457.55
		STEP K	43.0853	3,446.82	7,468.11	89,617.42
		STEP L	44.1493	3,531.94	7,652.54	91,830.54
		STEP M	45.2396	3,619.16	7,841.53	94,098.36
B705	ALTERNATIVE TRANSP ANALYST II					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	37.4902	2,999.21	6,498.30	77,979.61
		STEP C	38.4160	3,073.28	6,658.77	79,905.28
		STEP D	39.3647	3,149.17	6,823.21	81,878.57
		STEP E	40.3369	3,226.95	6,991.72	83,900.75
		STEP F	41.3331	3,306.64	7,164.40	85,972.84
		STEP G	42.3538	3,388.30	7,341.32	88,095.90
		STEP H	43.3998	3,471.98	7,522.63	90,271.58
		STEP I	44.4716	3,557.72	7,708.41	92,500.92
		STEP J	45.5699	3,645.59	7,898.78	94,785.39
		STEP K	46.6952	3,735.61	8,093.83	97,126.01
		STEP L	47.8484	3,827.87	8,293.72	99,524.67
		STEP M	49.0301	3,922.40	8,498.55	101,982.60

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B706	ALTERNATIVE TRANSP MGR					
		STEP A	46.6032	3,728.25	8,077.88	96,934.65
		STEP B	47.7530	3,820.24	8,277.18	99,326.24
		STEP C	48.9323	3,914.58	8,481.59	101,779.18
		STEP D	50.1408	4,011.26	8,691.07	104,292.86
		STEP E	51.3790	4,110.32	8,905.69	106,868.32
		STEP F	52.6479	4,211.83	9,125.63	109,507.63
		STEP G	53.9481	4,315.84	9,351.00	112,212.04
		STEP H	55.2804	4,422.43	9,581.93	114,983.23
		STEP I	56.6456	4,531.64	9,818.57	117,822.84
		STEP J	58.0445	4,643.56	10,061.04	120,732.56
		STEP K	59.4780	4,758.24	10,309.52	123,714.24
		STEP L	60.9469	4,875.75	10,564.12	126,769.55
		STEP M	62.4520	4,996.16	10,825.01	129,900.16
B711	ASST CITY ATTORNEY					
		STEP A	68.7340	5,498.72	11,913.89	142,966.72
		STEP B	70.4307	5,634.45	12,207.98	146,495.85
		STEP C	72.1701	5,773.60	12,509.48	150,113.80
		STEP D	73.9524	5,916.19	12,818.41	153,820.99
		STEP E	75.7787	6,062.29	13,134.97	157,619.69
		STEP F	77.6502	6,212.01	13,459.36	161,512.41
		STEP G	79.5678	6,365.42	13,791.75	165,501.02
		STEP H	81.5328	6,522.62	14,132.35	169,588.22
		STEP I	83.5464	6,683.71	14,481.37	173,776.51
		STEP J	85.6096	6,848.76	14,839.00	178,067.96
		STEP K	87.7238	7,017.90	15,205.45	182,465.50
		STEP L	89.8903	7,191.22	15,580.98	186,971.82
		STEP M	92.1102	7,368.81	15,965.76	191,589.21
B712	ASST CITY CLERK					
		STEP A	35.4741	2,837.92	6,148.84	73,786.12
		STEP B	36.3498	2,907.98	6,300.63	75,607.58
		STEP C	37.2475	2,979.80	6,456.23	77,474.80
		STEP D	38.1673	3,053.38	6,615.66	79,387.98
		STEP E	39.1099	3,128.79	6,779.04	81,348.59
		STEP F	40.0758	3,206.06	6,946.47	83,357.66
		STEP G	41.0655	3,285.24	7,118.02	85,416.24
		STEP H	42.0796	3,366.36	7,293.79	87,525.56
		STEP I	43.1188	3,449.50	7,473.92	89,687.10
		STEP J	44.1837	3,534.69	7,658.50	91,902.09
		STEP K	45.2749	3,621.99	7,847.64	94,171.79
		STEP L	46.3930	3,711.44	8,041.45	96,497.44
		STEP M	47.5387	3,803.09	8,240.04	98,880.49

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B707	ASST CITY MANAGER					
		STEP A	74.0814	5,926.51	12,840.77	154,089.31
		STEP B	75.9101	6,072.80	13,157.75	157,893.00
		STEP C	77.7848	6,222.78	13,482.69	161,792.38
		STEP D	79.7058	6,376.46	13,815.67	165,788.06
		STEP E	81.6742	6,533.93	14,156.86	169,882.33
		STEP F	83.6912	6,695.29	14,506.47	174,077.69
		STEP G	85.7581	6,860.64	14,864.73	178,376.84
		STEP H	87.8759	7,030.07	15,231.82	182,781.87
		STEP I	90.0461	7,203.68	15,607.99	187,295.88
		STEP J	92.2699	7,381.59	15,993.44	191,921.39
		STEP K	94.5486	7,563.88	16,388.42	196,661.08
		STEP L	96.8836	7,750.68	16,793.15	201,517.88
		STEP M	99.2762	7,942.09	17,207.87	206,494.49
B940	ASST ELEC UTIL DIR-RESOURCES					
		STEP A	77.7298	6,218.38	13,473.16	161,677.98
		STEP B	79.6487	6,371.89	13,805.77	165,669.29
		STEP C	81.6157	6,529.25	14,146.72	169,760.65
		STEP D	83.6312	6,690.49	14,496.07	173,952.89
		STEP E	85.6966	6,855.72	14,854.07	178,248.92
		STEP F	87.8130	7,025.04	15,220.92	182,651.04
		STEP G	89.9816	7,198.52	15,596.81	187,161.72
		STEP H	92.2038	7,376.30	15,981.99	191,783.90
		STEP I	94.4808	7,558.46	16,376.67	196,520.06
		STEP J	96.8141	7,745.12	16,781.11	201,373.32
		STEP K	99.2051	7,936.40	17,195.55	206,346.60
		STEP L	101.6550	8,132.40	17,620.20	211,442.40
		STEP M	104.1655	8,333.24	18,055.35	216,664.24
B708	ASST ELEC UTIL DIRECTOR					
		STEP A	70.9719	5,677.75	12,301.79	147,621.55
		STEP B	72.7240	5,817.92	12,605.49	151,265.92
		STEP C	74.5200	5,961.60	12,916.80	155,001.60
		STEP D	76.3603	6,108.82	13,235.78	158,829.42
		STEP E	78.2461	6,259.68	13,562.65	162,751.88
		STEP F	80.1785	6,414.28	13,897.60	166,771.28
		STEP G	82.1585	6,572.68	14,240.80	170,889.68
		STEP H	84.1875	6,735.00	14,592.50	175,110.00
		STEP I	86.2666	6,901.32	14,952.87	179,434.52
		STEP J	88.3971	7,071.76	15,322.16	183,865.96
		STEP K	90.5801	7,246.40	15,700.55	188,406.60
		STEP L	92.8171	7,425.36	16,088.29	193,059.56
		STEP M	95.1093	7,608.74	16,485.61	197,827.34

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B709	ASST EU DIRECTOR	STEP A	62.1514	4,972.11	10,772.90	129,274.91
		STEP B	63.6854	5,094.83	11,038.80	132,465.63
		STEP C	65.2582	5,220.65	11,311.42	135,737.05
		STEP D	66.8698	5,349.58	11,590.76	139,089.18
		STEP E	68.5212	5,481.69	11,877.00	142,524.09
		STEP F	70.2134	5,617.07	12,170.32	146,043.87
		STEP G	71.9474	5,755.79	12,470.88	149,650.59
		STEP H	73.7242	5,897.93	12,778.86	153,346.33
		STEP I	75.5449	6,043.59	13,094.44	157,133.39
		STEP J	77.4106	6,192.84	13,417.83	161,014.04
		STEP K	79.3223	6,345.78	13,749.19	164,990.38
		STEP L	81.2813	6,502.50	14,088.75	169,065.10
		STEP M	83.2886	6,663.08	14,436.69	173,240.28
B713	ASST FIRE CHIEF	STEP A	61.2592	4,900.73	10,618.26	127,419.13
		STEP B	62.7714	5,021.71	10,880.37	130,564.51
		STEP C	64.3216	5,145.72	11,149.07	133,788.92
		STEP D	65.9101	5,272.80	11,424.41	137,093.00
		STEP E	67.5378	5,403.02	11,706.55	140,478.62
		STEP F	69.2057	5,536.45	11,995.65	143,947.85
		STEP G	70.9148	5,673.18	12,291.89	147,502.78
		STEP H	72.6661	5,813.28	12,595.45	151,145.48
		STEP I	74.4607	5,956.85	12,906.52	154,878.25
		STEP J	76.2996	6,103.96	13,225.26	158,703.16
		STEP K	78.1839	6,254.71	13,551.87	162,622.51
		STEP L	80.1147	6,409.17	13,886.54	166,638.57
		STEP M	82.0932	6,567.45	14,229.48	170,753.85
B710	ASST POLICE CHIEF	STEP A	66.6657	5,333.25	11,555.38	138,664.65
		STEP B	68.3113	5,464.90	11,840.62	142,087.50
		STEP C	69.9983	5,599.86	12,133.03	145,596.46
		STEP D	71.7270	5,738.16	12,432.68	149,192.16
		STEP E	73.4984	5,879.87	12,739.72	152,876.67
		STEP F	75.3135	6,025.08	13,054.34	156,652.08
		STEP G	77.1735	6,173.88	13,376.74	160,520.88
		STEP H	79.0793	6,326.34	13,707.07	164,484.94
		STEP I	81.0323	6,482.58	14,045.59	168,547.18
		STEP J	83.0334	6,642.67	14,392.45	172,709.47
		STEP K	85.0840	6,806.72	14,747.89	176,974.72
		STEP L	87.1853	6,974.82	15,112.11	181,345.42
		STEP M	89.3384	7,147.07	15,485.32	185,823.87

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B714	BILLING SERVICES MANAGER					
		STEP A	43.9697	3,517.57	7,621.41	91,456.97
		STEP B	45.0552	3,604.41	7,809.56	93,714.81
		STEP C	46.1679	3,693.43	8,002.43	96,029.23
		STEP D	47.3081	3,784.64	8,200.07	98,400.84
		STEP E	48.4764	3,878.11	8,402.57	100,830.91
		STEP F	49.6736	3,973.88	8,610.09	103,321.08
		STEP G	50.9003	4,072.02	8,822.71	105,872.62
		STEP H	52.1574	4,172.59	9,040.61	108,487.39
		STEP I	53.4454	4,275.63	9,263.86	111,166.43
		STEP J	54.7653	4,381.22	9,492.65	113,911.82
		STEP K	56.1178	4,489.42	9,727.08	116,725.02
		STEP L	57.5037	4,600.29	9,967.30	119,607.69
		STEP M	58.9238	4,713.90	10,213.45	122,561.50
B715	BLDG INSPECTION SUPERVISOR					
		STEP A	40.3307	3,226.45	6,990.65	83,887.85
		STEP B	41.3263	3,306.10	7,163.22	85,958.70
		STEP C	42.3469	3,387.75	7,340.12	88,081.55
		STEP D	43.3927	3,471.41	7,521.40	90,256.81
		STEP E	44.4643	3,557.14	7,707.14	92,485.74
		STEP F	45.5624	3,644.99	7,897.48	94,769.79
		STEP G	46.6876	3,735.00	8,092.51	97,110.20
		STEP H	47.8406	3,827.24	8,292.37	99,508.44
		STEP I	49.0220	3,921.76	8,497.14	101,965.76
		STEP J	50.2327	4,018.61	8,707.00	104,484.01
		STEP K	51.4732	4,117.85	8,922.02	107,064.25
		STEP L	52.7444	4,219.55	9,142.36	109,708.35
		STEP M	54.0470	4,323.76	9,368.14	112,417.76
B717	BLDG OFFICIAL					
		STEP A	49.8118	3,984.94	8,634.04	103,608.54
		STEP B	51.0414	4,083.31	8,847.17	106,166.11
		STEP C	52.3019	4,184.15	9,065.66	108,787.95
		STEP D	53.5936	4,287.48	9,289.55	111,474.68
		STEP E	54.9171	4,393.36	9,518.96	114,227.56
		STEP F	56.2734	4,501.87	9,754.05	117,048.67
		STEP G	57.6631	4,613.04	9,994.93	119,939.24
		STEP H	59.0871	4,726.96	10,241.76	122,901.16
		STEP I	60.5464	4,843.71	10,494.70	125,936.51
		STEP J	62.0416	4,963.32	10,753.87	129,046.52
		STEP K	63.5738	5,085.90	11,019.45	132,233.50
		STEP L	65.1438	5,211.50	11,291.59	135,499.10
		STEP M	66.7526	5,340.20	11,570.45	138,845.40

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B718	BUDGET ANALYST I					
		STEP A	34.4334	2,754.67	5,968.45	71,621.47
		STEP B	35.2833	2,822.66	6,115.77	73,389.26
		STEP C	36.1547	2,892.37	6,266.81	75,201.77
		STEP D	37.0476	2,963.80	6,421.58	77,059.00
		STEP E	37.9625	3,037.00	6,580.16	78,962.00
		STEP F	38.9000	3,112.00	6,742.66	80,912.00
		STEP G	39.8607	3,188.85	6,909.18	82,910.25
		STEP H	40.8451	3,267.60	7,079.81	84,957.80
		STEP I	41.8538	3,348.30	7,254.65	87,055.90
		STEP J	42.8874	3,430.99	7,433.81	89,205.79
		STEP K	43.9466	3,515.72	7,617.41	91,408.92
		STEP L	45.0319	3,602.55	7,805.52	93,666.35
		STEP M	46.1440	3,691.52	7,998.29	95,979.52
B719	BUDGET ANALYST II					
		STEP A	37.3182	2,985.45	6,468.48	77,621.85
		STEP B	38.2394	3,059.15	6,628.16	79,537.95
		STEP C	39.1838	3,134.70	6,791.85	81,502.30
		STEP D	40.1515	3,212.12	6,959.59	83,515.12
		STEP E	41.1431	3,291.44	7,131.47	85,577.64
		STEP F	42.1591	3,372.72	7,307.57	87,690.92
		STEP G	43.2003	3,456.02	7,488.05	89,856.62
		STEP H	44.2672	3,541.37	7,672.98	92,075.77
		STEP I	45.3604	3,628.83	7,862.46	94,349.63
		STEP J	46.4806	3,718.44	8,056.63	96,679.64
		STEP K	47.6285	3,810.28	8,255.60	99,067.28
		STEP L	48.8047	3,904.37	8,459.48	101,513.77
		STEP M	50.0100	4,000.80	8,668.40	104,020.80
B720	BUDGET MANAGER					
		STEP A	43.9697	3,517.57	7,621.41	91,456.97
		STEP B	45.0552	3,604.41	7,809.56	93,714.81
		STEP C	46.1679	3,693.43	8,002.43	96,029.23
		STEP D	47.3081	3,784.64	8,200.07	98,400.84
		STEP E	48.4764	3,878.11	8,402.57	100,830.91
		STEP F	49.6736	3,973.88	8,610.09	103,321.08
		STEP G	50.9003	4,072.02	8,822.71	105,872.62
		STEP H	52.1574	4,172.59	9,040.61	108,487.39
		STEP I	53.4454	4,275.63	9,263.86	111,166.43
		STEP J	54.7653	4,381.22	9,492.65	113,911.82
		STEP K	56.1178	4,489.42	9,727.08	116,725.02
		STEP L	57.5037	4,600.29	9,967.30	119,607.69
		STEP M	58.9238	4,713.90	10,213.45	122,561.50

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B721	BUSINESS SVCS ADMINISTRATOR					
		STEP A	42.3780	3,390.24	7,345.52	88,146.24
		STEP B	43.4242	3,473.93	7,526.86	90,322.33
		STEP C	44.4966	3,559.72	7,712.74	92,552.92
		STEP D	45.5955	3,647.64	7,903.22	94,838.64
		STEP E	46.7215	3,737.72	8,098.39	97,180.72
		STEP F	47.8753	3,830.02	8,298.38	99,580.62
		STEP G	49.0577	3,924.61	8,503.33	102,040.01
		STEP H	50.2692	4,021.53	8,713.32	104,559.93
		STEP I	51.5107	4,120.85	8,928.52	107,142.25
		STEP J	52.7828	4,222.62	9,149.01	109,788.22
		STEP K	54.0863	4,326.90	9,374.95	112,499.50
		STEP L	55.4220	4,433.76	9,606.48	115,277.76
		STEP M	56.7907	4,543.25	9,843.72	118,124.65
B722	CENTRAL SERVICES DIRECTOR					
		STEP A	55.5189	4,441.51	9,623.27	115,479.31
		STEP B	56.8894	4,551.15	9,860.82	118,329.95
		STEP C	58.2944	4,663.55	10,104.36	121,252.35
		STEP D	59.7340	4,778.72	10,353.89	124,246.72
		STEP E	61.2092	4,896.73	10,609.59	127,315.13
		STEP F	62.7208	5,017.66	10,871.60	130,459.26
		STEP G	64.2698	5,141.58	11,140.09	133,681.18
		STEP H	65.8570	5,268.56	11,415.21	136,982.56
		STEP I	67.4834	5,398.67	11,697.12	140,365.47
		STEP J	69.1500	5,532.00	11,986.00	143,832.00
		STEP K	70.8577	5,668.61	12,282.00	147,384.01
		STEP L	72.6076	5,808.60	12,585.31	151,023.80
		STEP M	74.4007	5,952.05	12,896.12	154,753.45
B723	CHIEF FINANCIAL OFFICER					
		STEP A	86.5875	6,927.00	15,008.50	180,102.00
		STEP B	88.7250	7,098.00	15,379.00	184,548.00
		STEP C	90.9161	7,273.28	15,758.79	189,105.48
		STEP D	93.1614	7,452.91	16,147.97	193,775.71
		STEP E	95.4621	7,636.96	16,546.76	198,561.16
		STEP F	97.8196	7,825.56	16,955.39	203,464.76
		STEP G	100.2354	8,018.83	17,374.13	208,489.63
		STEP H	102.7108	8,216.86	17,803.20	213,638.46
		STEP I	105.2473	8,419.78	18,242.86	218,914.38
		STEP J	107.8465	8,627.72	18,693.39	224,320.72
		STEP K	110.5099	8,840.79	19,155.04	229,860.59
		STEP L	113.2390	9,059.12	19,628.09	235,537.12
		STEP M	116.0356	9,282.84	20,112.83	241,354.04

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B724	CHIEF INFORMATION OFFICER					
		STEP A	60.9892	4,879.13	10,571.46	126,857.53
		STEP B	62.4949	4,999.59	10,832.44	129,989.39
		STEP C	64.0383	5,123.06	11,099.97	133,199.66
		STEP D	65.6198	5,249.58	11,374.09	136,489.18
		STEP E	67.2403	5,379.22	11,654.98	139,859.82
		STEP F	68.9009	5,512.07	11,942.82	143,313.87
		STEP G	70.6024	5,648.19	12,237.74	146,852.99
		STEP H	72.3460	5,787.68	12,539.97	150,479.68
		STEP I	74.1327	5,930.61	12,849.66	154,196.01
		STEP J	75.9635	6,077.08	13,167.00	158,004.08
		STEP K	77.8395	6,227.16	13,492.18	161,906.16
		STEP L	79.7618	6,380.94	13,825.37	165,904.54
		STEP M	81.7316	6,538.52	14,166.81	170,001.72
B725	CITY CLERK					
		STEP A	49.4890	3,959.12	8,578.09	102,937.12
		STEP B	50.7112	4,056.89	8,789.94	105,479.29
		STEP C	51.9636	4,157.08	9,007.02	108,084.28
		STEP D	53.2468	4,259.74	9,229.44	110,753.34
		STEP E	54.5618	4,364.94	9,457.37	113,488.54
		STEP F	55.9093	4,472.74	9,690.94	116,291.34
		STEP G	57.2900	4,583.20	9,930.26	119,163.20
		STEP H	58.7049	4,696.39	10,175.51	122,106.19
		STEP I	60.1546	4,812.36	10,426.79	125,121.56
		STEP J	61.6402	4,931.21	10,684.30	128,211.61
		STEP K	63.1625	5,053.00	10,948.16	131,378.00
		STEP L	64.7223	5,177.78	11,218.53	134,622.38
		STEP M	66.3207	5,305.65	11,495.58	137,947.05
B726	CITY LIBRARIAN					
		STEP A	43.4443	3,475.54	7,530.34	90,364.14
		STEP B	44.5172	3,561.37	7,716.31	92,595.77
		STEP C	45.6166	3,649.32	7,906.87	94,882.52
		STEP D	46.7432	3,739.45	8,102.15	97,225.85
		STEP E	47.8976	3,831.80	8,302.25	99,627.00
		STEP F	49.0804	3,926.43	8,507.26	102,087.23
		STEP G	50.2925	4,023.40	8,717.36	104,608.40
		STEP H	51.5345	4,122.76	8,932.64	107,191.76
		STEP I	52.8072	4,224.57	9,153.24	109,838.97
		STEP J	54.1114	4,328.91	9,379.30	112,551.71
		STEP K	55.4477	4,435.81	9,610.93	115,331.21
		STEP L	56.8170	4,545.36	9,848.28	118,179.36
		STEP M	58.2202	4,657.61	10,091.50	121,098.01

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B728	DEPT PUBLIC INFO OFFICER					
		STEP A	38.3214	3,065.71	6,642.37	79,708.51
		STEP B	39.2676	3,141.40	6,806.38	81,676.60
		STEP C	40.2373	3,218.98	6,974.46	83,693.58
		STEP D	41.2310	3,298.48	7,146.70	85,760.48
		STEP E	42.2493	3,379.94	7,323.21	87,878.54
		STEP F	43.2926	3,463.40	7,504.05	90,048.60
		STEP G	44.3618	3,548.94	7,689.37	92,272.54
		STEP H	45.4574	3,636.59	7,879.28	94,551.39
		STEP I	46.5800	3,726.40	8,073.86	96,886.40
		STEP J	47.7303	3,818.42	8,273.25	99,279.02
		STEP K	48.9091	3,912.72	8,477.57	101,730.92
		STEP L	50.1169	4,009.35	8,686.92	104,243.15
		STEP M	51.3546	4,108.36	8,901.46	106,817.56
B729	DEPUTY CITY ATTORNEY I					
		STEP A	49.3957	3,951.65	8,561.92	102,743.05
		STEP B	50.6151	4,049.20	8,773.28	105,279.40
		STEP C	51.8650	4,149.20	8,989.93	107,879.20
		STEP D	53.1459	4,251.67	9,211.95	110,543.47
		STEP E	54.4584	4,356.67	9,439.45	113,273.47
		STEP F	55.8033	4,464.26	9,672.57	116,070.86
		STEP G	57.1814	4,574.51	9,911.44	118,937.31
		STEP H	58.5936	4,687.48	10,156.22	121,874.68
		STEP I	60.0406	4,803.24	10,407.03	124,884.44
		STEP J	61.5234	4,921.87	10,664.05	127,968.67
		STEP K	63.0427	5,043.41	10,927.40	131,128.81
		STEP L	64.5996	5,167.96	11,197.26	134,367.16
		STEP M	66.1950	5,295.60	11,473.80	137,685.60
B730	DEPUTY CITY ATTORNEY II					
		STEP A	54.3352	4,346.81	9,418.10	113,017.21
		STEP B	55.6766	4,454.12	9,650.61	115,807.32
		STEP C	57.0516	4,564.12	9,888.94	118,667.32
		STEP D	58.4605	4,676.84	10,133.15	121,597.84
		STEP E	59.9042	4,792.33	10,383.39	124,600.73
		STEP F	61.3836	4,910.68	10,639.82	127,677.88
		STEP G	62.8996	5,031.96	10,902.59	130,831.16
		STEP H	64.4529	5,156.23	11,171.83	134,062.03
		STEP I	66.0447	5,283.57	11,447.74	137,372.97
		STEP J	67.6757	5,414.05	11,730.45	140,765.45
		STEP K	69.3470	5,547.76	12,020.14	144,241.76
		STEP L	71.0596	5,684.76	12,317.00	147,803.96
		STEP M	72.8145	5,825.16	12,621.18	151,454.16

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B731	DEPUTY CITY MANAGER					
		STEP A	55.5189	4,441.51	9,623.27	115,479.31
		STEP B	56.8894	4,551.15	9,860.82	118,329.95
		STEP C	58.2944	4,663.55	10,104.36	121,252.35
		STEP D	59.7340	4,778.72	10,353.89	124,246.72
		STEP E	61.2092	4,896.73	10,609.59	127,315.13
		STEP F	62.7208	5,017.66	10,871.60	130,459.26
		STEP G	64.2698	5,141.58	11,140.09	133,681.18
		STEP H	65.8570	5,268.56	11,415.21	136,982.56
		STEP I	67.4834	5,398.67	11,697.12	140,365.47
		STEP J	69.1500	5,532.00	11,986.00	143,832.00
		STEP K	70.8577	5,668.61	12,282.00	147,384.01
		STEP L	72.6076	5,808.60	12,585.31	151,023.80
		STEP M	74.4007	5,952.05	12,896.12	154,753.45
B732	DEVELOPMENT ANALYST I					
		STEP A	33.2609	2,660.87	5,765.22	69,182.67
		STEP B	34.0820	2,726.56	5,907.54	70,890.56
		STEP C	34.9236	2,793.88	6,053.42	72,641.08
		STEP D	35.7861	2,862.88	6,202.92	74,435.08
		STEP E	36.6699	2,933.59	6,356.11	76,273.39
		STEP F	37.5755	3,006.04	6,513.08	78,157.04
		STEP G	38.5035	3,080.28	6,673.94	80,087.28
		STEP H	39.4543	3,156.34	6,838.74	82,064.94
		STEP I	40.4287	3,234.29	7,007.64	84,091.69
		STEP J	41.4271	3,314.16	7,180.69	86,168.36
		STEP K	42.4502	3,396.01	7,358.03	88,296.41
		STEP L	43.4986	3,479.88	7,539.75	90,477.08
		STEP M	44.5728	3,565.82	7,725.95	92,711.42
B733	DEVELOPMENT ANALYST II					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	37.4902	2,999.21	6,498.30	77,979.61
		STEP C	38.4160	3,073.28	6,658.77	79,905.28
		STEP D	39.3647	3,149.17	6,823.21	81,878.57
		STEP E	40.3369	3,226.95	6,991.72	83,900.75
		STEP F	41.3331	3,306.64	7,164.40	85,972.84
		STEP G	42.3538	3,388.30	7,341.32	88,095.90
		STEP H	43.3998	3,471.98	7,522.63	90,271.58
		STEP I	44.4716	3,557.72	7,708.41	92,500.92
		STEP J	45.5699	3,645.59	7,898.78	94,785.39
		STEP K	46.6952	3,735.61	8,093.83	97,126.01
		STEP L	47.8484	3,827.87	8,293.72	99,524.67
		STEP M	49.0301	3,922.40	8,498.55	101,982.60

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B734	DEVELOPMENT SERVICES DIRECTOR					
		STEP A	67.1903	5,375.22	11,646.31	139,755.82
		STEP B	68.8490	5,507.92	11,933.82	143,205.92
		STEP C	70.5493	5,643.94	12,228.54	146,742.54
		STEP D	72.2916	5,783.32	12,530.54	150,366.52
		STEP E	74.0769	5,926.15	12,840.00	154,079.95
		STEP F	75.9063	6,072.50	13,157.09	157,885.10
		STEP G	77.7809	6,222.47	13,482.02	161,784.27
		STEP H	79.7018	6,376.14	13,814.97	165,779.74
		STEP I	81.6701	6,533.60	14,156.15	169,873.80
		STEP J	83.6870	6,694.96	14,505.74	174,068.96
		STEP K	85.7538	6,860.30	14,863.99	178,367.90
		STEP L	87.8715	7,029.72	15,231.06	182,772.72
		STEP M	90.0416	7,203.32	15,607.21	187,286.52
B735	DEVELOPMENT SERVICES MANAGER					
		STEP A	55.5189	4,441.51	9,623.27	115,479.31
		STEP B	56.8894	4,551.15	9,860.82	118,329.95
		STEP C	58.2944	4,663.55	10,104.36	121,252.35
		STEP D	59.7340	4,778.72	10,353.89	124,246.72
		STEP E	61.2092	4,896.73	10,609.59	127,315.13
		STEP F	62.7208	5,017.66	10,871.60	130,459.26
		STEP G	64.2698	5,141.58	11,140.09	133,681.18
		STEP H	65.8570	5,268.56	11,415.21	136,982.56
		STEP I	67.4834	5,398.67	11,697.12	140,365.47
		STEP J	69.1500	5,532.00	11,986.00	143,832.00
		STEP K	70.8577	5,668.61	12,282.00	147,384.01
		STEP L	72.6076	5,808.60	12,585.31	151,023.80
		STEP M	74.4007	5,952.05	12,896.12	154,753.45
B736	ECONOMIC DEVELOPMENT DIRECTOR					
		STEP A	64.6607	5,172.85	11,207.85	134,494.25
		STEP B	66.2571	5,300.56	11,484.56	137,814.76
		STEP C	67.8933	5,431.46	11,768.17	141,218.06
		STEP D	69.5700	5,565.60	12,058.80	144,705.60
		STEP E	71.2881	5,703.04	12,356.60	148,279.24
		STEP F	73.0487	5,843.89	12,661.77	151,941.29
		STEP G	74.8527	5,988.21	12,974.46	155,693.61
		STEP H	76.7012	6,136.09	13,294.87	159,538.49
		STEP I	78.5955	6,287.64	13,623.22	163,478.64
		STEP J	80.5364	6,442.91	13,959.64	167,515.71
		STEP K	82.5254	6,602.03	14,304.40	171,652.83
		STEP L	84.5634	6,765.07	14,657.65	175,891.87
		STEP M	86.6518	6,932.14	15,019.64	180,235.74

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B737	ECONOMIC DEVELOPMENT MANAGER					
		STEP A	43.4443	3,475.54	7,530.34	90,364.14
		STEP B	44.5172	3,561.37	7,716.31	92,595.77
		STEP C	45.6166	3,649.32	7,906.87	94,882.52
		STEP D	46.7432	3,739.45	8,102.15	97,225.85
		STEP E	47.8976	3,831.80	8,302.25	99,627.00
		STEP F	49.0804	3,926.43	8,507.26	102,087.23
		STEP G	50.2925	4,023.40	8,717.36	104,608.40
		STEP H	51.5345	4,122.76	8,932.64	107,191.76
		STEP I	52.8072	4,224.57	9,153.24	109,838.97
		STEP J	54.1114	4,328.91	9,379.30	112,551.71
		STEP K	55.4477	4,435.81	9,610.93	115,331.21
		STEP L	56.8170	4,545.36	9,848.28	118,179.36
		STEP M	58.2202	4,657.61	10,091.50	121,098.01
B738	ELECTRIC BUSINESS ANALYST I					
		STEP A	39.3071	3,144.56	6,813.23	81,758.76
		STEP B	40.2773	3,222.18	6,981.39	83,776.78
		STEP C	41.2720	3,301.76	7,153.81	85,845.76
		STEP D	42.2913	3,383.30	7,330.49	87,965.90
		STEP E	43.3357	3,466.85	7,511.52	90,138.25
		STEP F	44.4059	3,552.47	7,697.02	92,364.27
		STEP G	45.5026	3,640.20	7,887.11	94,645.40
		STEP H	46.6263	3,730.10	8,081.89	96,982.70
		STEP I	47.7778	3,822.22	8,281.48	99,377.82
		STEP J	48.9577	3,916.61	8,486.00	101,832.01
		STEP K	50.1668	4,013.34	8,695.57	104,346.94
		STEP L	51.4057	4,112.45	8,910.32	106,923.85
		STEP M	52.6752	4,214.01	9,130.36	109,564.41
B739	ELECTRIC BUSINESS ANALYST II					
		STEP A	43.2416	3,459.32	7,495.21	89,942.52
		STEP B	44.3091	3,544.72	7,680.24	92,162.92
		STEP C	45.4034	3,632.27	7,869.92	94,439.07
		STEP D	46.5246	3,721.96	8,064.26	96,771.16
		STEP E	47.6736	3,813.88	8,263.42	99,161.08
		STEP F	48.8510	3,908.08	8,467.50	101,610.08
		STEP G	50.0574	4,004.59	8,676.61	104,119.39
		STEP H	51.2936	4,103.48	8,890.89	106,690.68
		STEP I	52.5604	4,204.83	9,110.46	109,325.63
		STEP J	53.8584	4,308.67	9,335.45	112,025.47
		STEP K	55.1885	4,415.08	9,566.00	114,792.08
		STEP L	56.5514	4,524.11	9,802.24	117,626.91
		STEP M	57.9480	4,635.84	10,044.32	120,531.84

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B740	ELECTRIC COMPLIANCE ANALYST					
		STEP A	45.0209	3,601.67	7,803.62	93,643.47
		STEP B	46.1322	3,690.57	7,996.24	95,954.97
		STEP C	47.2715	3,781.72	8,193.72	98,324.72
		STEP D	48.4389	3,875.11	8,396.07	100,752.91
		STEP E	49.6352	3,970.81	8,603.43	103,241.21
		STEP F	50.8610	4,068.88	8,815.90	105,790.88
		STEP G	52.1170	4,169.36	9,033.61	108,403.36
		STEP H	53.4041	4,272.32	9,256.71	111,080.52
		STEP I	54.7230	4,377.84	9,485.32	113,823.84
		STEP J	56.0744	4,485.95	9,719.56	116,634.75
		STEP K	57.4592	4,596.73	9,959.59	119,515.13
		STEP L	58.8782	4,710.25	10,205.55	122,466.65
		STEP M	60.3323	4,826.58	10,457.59	125,491.18
B741	ELECTRIC ENGINEERING TECH SUPV					
		STEP A	47.8512	3,828.09	8,294.20	99,530.49
		STEP B	49.0323	3,922.58	8,498.93	101,987.18
		STEP C	50.2432	4,019.45	8,708.82	104,505.85
		STEP D	51.4840	4,118.72	8,923.89	107,086.72
		STEP E	52.7555	4,220.44	9,144.28	109,731.44
		STEP F	54.0583	4,324.66	9,370.10	112,441.26
		STEP G	55.3934	4,431.47	9,601.52	115,218.27
		STEP H	56.7614	4,540.91	9,838.64	118,063.71
		STEP I	58.1631	4,653.04	10,081.60	120,979.24
		STEP J	59.5995	4,767.96	10,330.58	123,966.96
		STEP K	61.0714	4,885.71	10,585.70	127,028.51
		STEP L	62.5796	5,006.36	10,847.13	130,165.56
		STEP M	64.1251	5,130.00	11,115.01	133,380.20
B742	ELECTRIC LINE CONST SUPERVISOR					
		STEP A	61.4415	4,915.32	10,649.86	127,798.32
		STEP B	62.9581	5,036.64	10,912.73	130,952.84
		STEP C	64.5129	5,161.03	11,182.23	134,186.83
		STEP D	66.1061	5,288.48	11,458.39	137,500.68
		STEP E	67.7387	5,419.09	11,741.37	140,896.49
		STEP F	69.4116	5,552.92	12,031.34	144,376.12
		STEP G	71.1258	5,690.06	12,328.47	147,941.66
		STEP H	72.8823	5,830.58	12,632.93	151,595.18
		STEP I	74.6822	5,974.57	12,944.91	155,338.97
		STEP J	76.5265	6,122.12	13,264.59	159,175.12
		STEP K	78.4164	6,273.31	13,592.17	163,106.11
		STEP L	80.3530	6,428.24	13,927.85	167,134.24
		STEP M	82.3374	6,586.99	14,271.81	171,261.79

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B743	ELECTRIC OPERATIONS MANAGER					
		STEP A	67.5845	5,406.76	11,714.64	140,575.76
		STEP B	69.2528	5,540.22	12,003.81	144,045.82
		STEP C	70.9631	5,677.04	12,300.27	147,603.24
		STEP D	72.7156	5,817.24	12,604.03	151,248.44
		STEP E	74.5114	5,960.91	12,915.30	154,983.71
		STEP F	76.3515	6,108.12	13,234.26	158,811.12
		STEP G	78.2371	6,258.96	13,561.09	162,733.16
		STEP H	80.1692	6,413.53	13,895.99	166,751.93
		STEP I	82.1491	6,571.92	14,239.17	170,870.12
		STEP J	84.1778	6,734.22	14,590.81	175,089.82
		STEP K	86.2567	6,900.53	14,951.16	179,413.93
		STEP L	88.3869	7,070.95	15,320.39	183,844.75
		STEP M	90.5697	7,245.57	15,698.74	188,384.97
B744	ELECTRIC RATES & FINANCL ADMIN					
		STEP A	58.3337	4,666.69	10,111.17	121,334.09
		STEP B	59.7736	4,781.88	10,360.75	124,329.08
		STEP C	61.2497	4,899.97	10,616.61	127,399.37
		STEP D	62.7623	5,020.98	10,878.79	130,545.58
		STEP E	64.3123	5,144.98	11,147.46	133,769.58
		STEP F	65.9006	5,272.04	11,422.77	137,073.24
		STEP G	67.5281	5,402.24	11,704.87	140,458.44
		STEP H	69.1957	5,535.65	11,993.92	143,927.05
		STEP I	70.9046	5,672.36	12,290.13	147,481.56
		STEP J	72.6557	5,812.45	12,593.65	151,123.85
		STEP K	74.4500	5,956.00	12,904.66	154,856.00
		STEP L	76.2886	6,103.08	13,223.35	158,680.28
		STEP M	78.1726	6,253.80	13,549.91	162,599.00
B745	ELECTRIC REGU COMPLNCE ADMNSTR					
		STEP A	67.5845	5,406.76	11,714.64	140,575.76
		STEP B	69.2528	5,540.22	12,003.81	144,045.82
		STEP C	70.9631	5,677.04	12,300.27	147,603.24
		STEP D	72.7156	5,817.24	12,604.03	151,248.44
		STEP E	74.5114	5,960.91	12,915.30	154,983.71
		STEP F	76.3515	6,108.12	13,234.26	158,811.12
		STEP G	78.2371	6,258.96	13,561.09	162,733.16
		STEP H	80.1692	6,413.53	13,895.99	166,751.93
		STEP I	82.1491	6,571.92	14,239.17	170,870.12
		STEP J	84.1778	6,734.22	14,590.81	175,089.82
		STEP K	85.2567	6,820.53	14,777.82	177,333.93
		STEP L	88.3869	7,070.95	15,320.39	183,844.75
		STEP M	90.5697	7,245.57	15,698.74	188,384.97

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B746	ELECTRIC RESOURCES ANALYST I					
		STEP A	47.9688	3,837.50	8,314.59	99,775.10
		STEP B	49.1529	3,932.23	8,519.83	102,238.03
		STEP C	50.3668	4,029.34	8,730.24	104,762.94
		STEP D	51.6107	4,128.85	8,945.85	107,350.25
		STEP E	52.8852	4,230.81	9,166.76	110,001.21
		STEP F	54.1913	4,335.30	9,393.15	112,717.90
		STEP G	55.5296	4,442.36	9,625.13	115,501.56
		STEP H	56.9010	4,552.08	9,862.84	118,354.08
		STEP I	58.3062	4,664.49	10,106.40	121,276.89
		STEP J	59.7461	4,779.68	10,355.99	124,271.88
		STEP K	61.2216	4,897.72	10,611.74	127,340.92
		STEP L	62.7335	5,018.68	10,873.80	130,485.68
		STEP M	64.2828	5,142.62	11,142.35	133,708.22
B747	ELECTRIC RESOURCES ANALYST II					
		STEP A	52.7703	4,221.62	9,146.85	109,762.22
		STEP B	54.0729	4,325.83	9,372.63	112,471.63
		STEP C	55.4083	4,432.66	9,604.10	115,249.26
		STEP D	56.7766	4,542.12	9,841.27	118,095.32
		STEP E	58.1788	4,654.30	10,084.32	121,011.90
		STEP F	59.6156	4,769.24	10,333.37	124,000.44
		STEP G	61.0878	4,887.02	10,588.55	127,062.62
		STEP H	62.5965	5,007.72	10,850.06	130,200.72
		STEP I	64.1424	5,131.39	11,118.01	133,416.19
		STEP J	65.7264	5,258.11	11,392.57	136,710.91
		STEP K	67.3496	5,387.96	11,673.93	140,087.16
		STEP L	69.0129	5,521.03	11,962.23	143,546.83
		STEP M	70.7172	5,657.37	12,257.64	147,091.77
B748	ELECTRIC RETAIL SERVICES SUPV					
		STEP A	54.7676	4,381.40	9,493.05	113,916.60
		STEP B	56.1194	4,489.55	9,727.36	116,728.35
		STEP C	57.5054	4,600.43	9,967.60	119,611.23
		STEP D	58.9255	4,714.04	10,213.75	122,565.04
		STEP E	60.3807	4,830.45	10,465.98	125,591.85
		STEP F	61.8719	4,949.75	10,724.46	128,693.55
		STEP G	63.3999	5,071.99	10,989.31	131,871.79
		STEP H	64.9656	5,197.24	11,260.70	135,128.44
		STEP I	66.5700	5,325.60	11,538.80	138,465.60
		STEP J	68.2140	5,457.12	11,823.76	141,885.12
		STEP K	69.8986	5,591.88	12,115.75	145,389.08
		STEP L	71.6249	5,729.99	12,414.98	148,979.79
		STEP M	73.3937	5,871.49	12,721.57	152,658.89

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B749	ELECTRIC RISK MGMT ADMNSTR					
		STEP A	64.1688	5,133.50	11,122.59	133,471.10
		STEP B	65.7529	5,260.23	11,397.16	136,766.03
		STEP C	67.3767	5,390.13	11,678.62	140,143.53
		STEP D	69.0406	5,523.24	11,967.03	143,604.44
		STEP E	70.7457	5,659.65	12,262.58	147,151.05
		STEP F	72.4928	5,799.42	12,565.41	150,785.02
		STEP G	74.2831	5,942.64	12,875.73	154,508.84
		STEP H	76.1176	6,089.40	13,193.71	158,324.60
		STEP I	77.9974	6,239.79	13,519.54	162,234.59
		STEP J	79.9236	6,393.88	13,853.42	166,241.08
		STEP K	81.8974	6,551.79	14,195.54	170,346.59
		STEP L	83.9199	6,713.59	14,546.11	174,553.39
		STEP M	85.9924	6,879.39	14,905.34	178,864.19
B750	ELECTRIC SAFETY COORDINATOR					
		STEP A	36.5871	2,926.96	6,341.76	76,101.16
		STEP B	37.4902	2,999.21	6,498.30	77,979.61
		STEP C	38.4160	3,073.28	6,658.77	79,905.28
		STEP D	39.3647	3,149.17	6,823.21	81,878.57
		STEP E	40.3369	3,226.95	6,991.72	83,900.75
		STEP F	41.3331	3,306.64	7,164.40	85,972.84
		STEP G	42.3538	3,388.30	7,341.32	88,095.90
		STEP H	43.3998	3,471.98	7,522.63	90,271.58
		STEP I	44.4716	3,557.72	7,708.41	92,500.92
		STEP J	45.5699	3,645.59	7,898.78	94,785.39
		STEP K	46.6952	3,735.61	8,093.83	97,126.01
		STEP L	47.8484	3,827.87	8,293.72	99,524.67
		STEP M	49.0301	3,922.40	8,498.55	101,982.60
B751	ELECTRIC SUBSTATION SUPERVISOR					
		STEP A	61.4415	4,915.32	10,649.86	127,798.32
		STEP B	62.9581	5,036.64	10,912.73	130,952.84
		STEP C	64.5129	5,161.03	11,182.23	134,186.83
		STEP D	66.1061	5,288.48	11,458.39	137,500.68
		STEP E	67.7387	5,419.09	11,741.37	140,896.49
		STEP F	69.4116	5,552.92	12,031.34	144,376.12
		STEP G	71.1258	5,690.06	12,328.47	147,941.66
		STEP H	72.8823	5,830.58	12,632.93	151,595.18
		STEP I	74.6822	5,974.57	12,944.91	155,338.97
		STEP J	76.5265	6,122.12	13,264.59	159,175.12
		STEP K	78.4164	6,273.31	13,592.17	163,106.11
		STEP L	80.3530	6,428.24	13,927.85	167,134.24
		STEP M	82.3374	6,586.99	14,271.81	171,261.79

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B752	ELECTRIC TECHNOLOGY SYST SUPV					
		STEP A	50.0104	4,000.83	8,668.46	104,021.63
		STEP B	51.2449	4,099.59	8,882.44	106,589.39
		STEP C	52.5104	4,200.83	9,101.80	109,221.63
		STEP D	53.8072	4,304.57	9,326.58	111,918.97
		STEP E	55.1361	4,410.88	9,556.92	114,683.08
		STEP F	56.4977	4,519.81	9,792.93	117,515.21
		STEP G	57.8930	4,631.44	10,034.78	120,417.44
		STEP H	59.3227	4,745.81	10,282.60	123,391.21
		STEP I	60.7877	4,863.01	10,536.53	126,438.41
		STEP J	62.2889	4,983.11	10,796.74	129,560.91
		STEP K	63.8272	5,106.17	11,063.38	132,760.57
		STEP L	65.4035	5,232.28	11,336.60	136,039.28
		STEP M	67.0187	5,361.49	11,616.57	139,398.89
B753	ELECTRIC UTILITY DIRECTOR					
		STEP A	83.4769	6,678.15	14,469.32	173,631.95
		STEP B	85.5374	6,842.99	14,826.48	177,917.79
		STEP C	87.6499	7,011.99	15,192.64	182,311.79
		STEP D	89.8145	7,185.16	15,567.84	186,814.16
		STEP E	92.0325	7,362.60	15,952.30	191,427.60
		STEP F	94.3053	7,544.42	16,346.25	196,155.02
		STEP G	96.6343	7,730.74	16,749.94	200,999.34
		STEP H	99.0208	7,921.66	17,163.60	205,963.26
		STEP I	101.4662	8,117.29	17,587.47	211,049.69
		STEP J	103.9720	8,317.76	18,021.81	216,261.76
		STEP K	106.5397	8,523.17	18,466.88	221,602.57
		STEP L	109.1708	8,733.66	18,922.93	227,075.26
		STEP M	111.8669	8,949.35	19,390.26	232,683.15
B754	ELECTRONIC MAINT COORDINATOR					
		STEP A	35.2965	2,823.72	6,118.06	73,416.72
		STEP B	36.1682	2,893.45	6,269.15	75,229.85
		STEP C	37.0614	2,964.91	6,423.97	77,087.71
		STEP D	37.9766	3,038.12	6,582.61	78,991.32
		STEP E	38.9145	3,113.16	6,745.18	80,942.16
		STEP F	39.8755	3,190.04	6,911.75	82,941.04
		STEP G	40.8603	3,268.82	7,082.45	84,989.42
		STEP H	41.8694	3,349.55	7,257.36	87,088.35
		STEP I	42.9034	3,432.27	7,436.58	89,239.07
		STEP J	43.9629	3,517.03	7,620.23	91,442.83
		STEP K	45.0486	3,603.88	7,808.42	93,701.08
		STEP L	46.1612	3,692.89	8,001.27	96,015.29
		STEP M	47.3012	3,784.09	8,198.87	98,386.49

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B755	EMS QUAL ASSURANCE COORDINATOR					
		STEP A	45.1917	3,615.33	7,833.22	93,998.73
		STEP B	46.3073	3,704.58	8,026.59	96,319.18
		STEP C	47.4509	3,796.07	8,224.82	98,697.87
		STEP D	48.6228	3,889.82	8,427.95	101,135.42
		STEP E	49.8236	3,985.88	8,636.09	103,633.08
		STEP F	51.0540	4,084.32	8,849.36	106,192.32
		STEP G	52.3148	4,185.18	9,067.89	108,814.78
		STEP H	53.6068	4,288.54	9,291.84	111,502.14
		STEP I	54.9307	4,394.45	9,521.32	114,255.85
		STEP J	56.2873	4,502.98	9,756.46	117,077.58
		STEP K	57.6773	4,614.18	9,997.39	119,968.78
		STEP L	59.1017	4,728.13	10,244.29	122,931.53
		STEP M	60.5613	4,844.90	10,497.29	125,967.50
B939	ENERGY SERVICES ACCOUNT REP I					
		STEP A	39.3599	3,148.79	6,822.38	81,868.59
		STEP B	40.3314	3,226.51	6,990.77	83,889.31
		STEP C	41.3274	3,306.19	7,163.41	85,960.99
		STEP D	42.3480	3,387.84	7,340.32	88,083.84
		STEP E	43.3939	3,471.51	7,521.60	90,259.31
		STEP F	44.4655	3,557.24	7,707.35	92,488.24
		STEP G	45.5636	3,645.08	7,897.69	94,772.28
		STEP H	46.6889	3,735.11	8,092.74	97,112.91
		STEP I	47.8419	3,827.35	8,292.59	99,511.15
		STEP J	49.0234	3,921.87	8,497.38	101,968.67
		STEP K	50.2341	4,018.72	8,707.24	104,486.92
		STEP L	51.4747	4,117.97	8,922.28	107,067.37
		STEP M	52.7459	4,219.67	9,142.62	109,711.47
B756	ENERGY SERVICES ACCOUNT REP II					
		STEP A	43.2959	3,463.67	7,504.62	90,055.47
		STEP B	44.3646	3,549.16	7,689.86	92,278.36
		STEP C	45.4602	3,636.81	7,879.76	94,557.21
		STEP D	46.5829	3,726.63	8,074.36	96,892.43
		STEP E	47.7333	3,818.66	8,273.77	99,285.26
		STEP F	48.9122	3,912.97	8,478.11	101,737.37
		STEP G	50.1201	4,009.60	8,687.48	104,249.80
		STEP H	51.3579	4,108.63	8,902.03	106,824.43
		STEP I	52.6262	4,210.09	9,121.87	109,462.49
		STEP J	53.9259	4,314.07	9,347.15	112,165.87
		STEP K	55.2576	4,420.60	9,577.98	114,935.80
		STEP L	56.6223	4,529.78	9,814.53	117,774.38
		STEP M	58.0206	4,641.64	10,056.90	120,682.84

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B757	ENGINEERING MANAGER					
		STEP A	56.5013	4,520.10	9,793.55	117,522.70
		STEP B	57.8958	4,631.66	10,035.27	120,423.26
		STEP C	59.3256	4,746.04	10,283.10	123,397.24
		STEP D	60.7907	4,863.25	10,537.05	126,444.65
		STEP E	62.2920	4,983.36	10,797.28	129,567.36
		STEP F	63.8304	5,106.43	11,063.93	132,767.23
		STEP G	65.4068	5,232.54	11,337.17	136,046.14
		STEP H	67.0220	5,361.76	11,617.14	139,405.76
		STEP I	68.6772	5,494.17	11,904.04	142,848.57
		STEP J	70.3733	5,629.86	12,198.03	146,376.46
		STEP K	72.1112	5,768.89	12,499.27	149,991.29
		STEP L	73.8921	5,911.36	12,807.96	153,695.56
		STEP M	75.7169	6,057.35	13,124.26	157,491.15
B758	ENVIRONMENTAL COORDINATOR					
		STEP A	42.0752	3,366.01	7,293.03	87,516.41
		STEP B	43.1139	3,449.11	7,473.07	89,676.91
		STEP C	44.1786	3,534.28	7,657.62	91,891.48
		STEP D	45.2697	3,621.57	7,846.74	94,160.97
		STEP E	46.3877	3,711.01	8,040.53	96,486.41
		STEP F	47.5333	3,802.66	8,239.10	98,869.26
		STEP G	48.7071	3,896.56	8,442.56	101,310.76
		STEP H	49.9100	3,992.80	8,651.06	103,812.80
		STEP I	51.1426	4,091.40	8,864.71	106,376.60
		STEP J	52.4056	4,192.44	9,083.63	109,003.64
		STEP K	53.6998	4,295.98	9,307.96	111,695.58
		STEP L	55.0260	4,402.08	9,537.84	114,454.08
		STEP M	56.3849	4,510.79	9,773.38	117,280.59
B761	ENVIRONMENTAL UTIL COMPL ADMIN					
		STEP A	42.0733	3,365.86	7,292.70	87,512.46
		STEP B	43.1117	3,448.93	7,472.69	89,672.33
		STEP C	44.1764	3,534.11	7,657.24	91,886.91
		STEP D	45.2674	3,621.39	7,846.34	94,156.19
		STEP E	46.3853	3,710.82	8,040.11	96,481.42
		STEP F	47.5308	3,802.46	8,238.67	98,864.06
		STEP G	48.7046	3,896.36	8,442.13	101,305.56
		STEP H	49.9074	3,992.59	8,650.61	103,807.39
		STEP I	51.1400	4,091.20	8,864.26	106,371.20
		STEP J	52.4029	4,192.23	9,083.16	108,998.03
		STEP K	53.6970	4,295.76	9,307.48	111,689.76
		STEP L	55.0231	4,401.84	9,537.33	114,448.04
		STEP M	56.3820	4,510.56	9,772.88	117,274.56

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B759	ENVIRONMENTAL UTIL DIRECTOR					
		STEP A	74.5054	5,960.43	12,914.26	154,971.23
		STEP B	76.3445	6,107.56	13,233.04	158,796.56
		STEP C	78.2299	6,258.39	13,559.84	162,718.19
		STEP D	80.1619	6,412.95	13,894.72	166,736.75
		STEP E	82.1416	6,571.32	14,237.87	170,854.52
		STEP F	84.1701	6,733.60	14,589.48	175,073.80
		STEP G	86.2488	6,899.90	14,949.79	179,397.50
		STEP H	88.3788	7,070.30	15,318.99	183,827.90
		STEP I	90.5614	7,244.91	15,697.30	188,367.71
		STEP J	92.7979	7,423.83	16,084.96	193,019.63
		STEP K	95.0896	7,607.16	16,482.19	197,786.36
		STEP L	97.4380	7,795.04	16,889.25	202,671.04
		STEP M	99.8443	7,987.54	17,306.34	207,676.14
B760	EQUIPMENT MAINT SUPERVISOR					
		STEP A	31.4681	2,517.44	5,454.47	65,453.64
		STEP B	32.2449	2,579.59	5,589.11	67,069.39
		STEP C	33.0412	2,643.29	5,727.14	68,725.69
		STEP D	33.8572	2,708.57	5,868.58	70,422.97
		STEP E	34.6934	2,775.47	6,013.52	72,162.27
		STEP F	35.5501	2,844.00	6,162.01	73,944.20
		STEP G	36.4281	2,914.24	6,314.20	75,770.44
		STEP H	37.3277	2,986.21	6,470.13	77,641.61
		STEP I	38.2496	3,059.96	6,629.93	79,559.16
		STEP J	39.1942	3,135.53	6,793.66	81,523.93
		STEP K	40.1621	3,212.96	6,961.43	83,537.16
		STEP L	41.1540	3,292.32	7,133.36	85,600.32
		STEP M	42.1703	3,373.62	7,309.51	87,714.22
B762	FACILITIES MANAGER					
		STEP A	40.5824	3,246.59	7,034.28	84,411.39
		STEP B	41.5839	3,326.71	7,207.87	86,494.51
		STEP C	42.6109	3,408.87	7,385.88	88,630.67
		STEP D	43.6632	3,493.05	7,568.28	90,819.45
		STEP E	44.7415	3,579.32	7,755.19	93,062.32
		STEP F	45.8465	3,667.72	7,946.72	95,360.72
		STEP G	46.9787	3,758.29	8,142.97	97,715.69
		STEP H	48.1389	3,851.11	8,344.07	100,128.91
		STEP I	49.3277	3,946.21	8,550.13	102,601.61
		STEP J	50.5459	4,043.67	8,761.28	105,135.47
		STEP K	51.7942	4,143.53	8,977.66	107,731.93
		STEP L	53.0733	4,245.86	9,199.37	110,392.46
		STEP M	54.3840	4,350.72	9,426.56	113,118.72

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B763	FINANCE DIRECTOR					
		STEP A	67.0881	5,367.04	11,628.60	139,543.24
		STEP B	68.7443	5,499.54	11,915.67	142,988.14
		STEP C	70.4421	5,635.36	12,209.96	146,519.56
		STEP D	72.1817	5,774.53	12,511.49	150,137.93
		STEP E	73.9643	5,917.14	12,820.47	153,845.74
		STEP F	75.7909	6,063.27	13,137.08	157,645.07
		STEP G	77.6626	6,213.00	13,461.51	161,538.20
		STEP H	79.5806	6,366.44	13,793.97	165,527.64
		STEP I	81.5459	6,523.67	14,134.62	169,615.47
		STEP J	83.5598	6,684.78	14,483.69	173,804.38
		STEP K	85.6234	6,849.87	14,841.38	178,096.67
		STEP L	87.7379	7,019.03	15,207.90	182,494.83
		STEP M	89.9047	7,192.37	15,583.48	187,001.77
B764	FINANCE MANAGER					
		STEP A	43.9697	3,517.57	7,621.41	91,456.97
		STEP B	45.0552	3,604.41	7,809.56	93,714.81
		STEP C	46.1679	3,693.43	8,002.43	96,029.23
		STEP D	47.3081	3,784.64	8,200.07	98,400.84
		STEP E	48.4764	3,878.11	8,402.57	100,830.91
		STEP F	49.6736	3,973.88	8,610.09	103,321.08
		STEP G	50.9003	4,072.02	8,822.71	105,872.62
		STEP H	52.1574	4,172.59	9,040.61	108,487.39
		STEP I	53.4454	4,275.63	9,263.86	111,166.43
		STEP J	54.7653	4,381.22	9,492.65	113,911.82
		STEP K	56.1178	4,489.42	9,727.08	116,725.02
		STEP L	57.5037	4,600.29	9,967.30	119,607.69
		STEP M	58.9238	4,713.90	10,213.45	122,561.50
B765	FINANCE SUPERVISOR					
		STEP A	36.3377	2,907.01	6,298.53	75,582.41
		STEP B	37.2345	2,978.76	6,453.98	77,447.76
		STEP C	38.1540	3,052.32	6,613.36	79,360.32
		STEP D	39.0963	3,127.70	6,776.69	81,320.30
		STEP E	40.0618	3,204.94	6,944.04	83,328.54
		STEP F	41.0511	3,284.08	7,115.52	85,386.28
		STEP G	42.0649	3,365.19	7,291.24	87,494.99
		STEP H	43.1038	3,448.30	7,471.32	89,655.90
		STEP I	44.1683	3,533.46	7,655.83	91,870.06
		STEP J	45.2591	3,620.72	7,844.91	94,138.92
		STEP K	46.3768	3,710.14	8,038.64	96,463.74
		STEP L	47.5221	3,801.76	8,237.16	98,845.96
		STEP M	48.6957	3,895.65	8,440.58	101,287.05

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B766	FIRE BATALION CHIEF (8HR)					
		STEP A	51.1945	4,095.56	8,873.71	106,484.56
		STEP B	51.8769	4,150.15	8,992.00	107,903.95
		STEP C	53.1581	4,252.64	9,214.07	110,568.84
		STEP D	54.4709	4,357.67	9,441.62	113,299.47
		STEP E	55.8161	4,465.28	9,674.79	116,097.48
		STEP F	57.1945	4,575.56	9,913.71	118,964.56
		STEP G	58.6070	4,688.56	10,158.54	121,902.56
		STEP H	60.0544	4,804.35	10,409.42	124,913.15
		STEP I	61.5375	4,923.00	10,666.50	127,998.00
		STEP J	63.0572	5,044.57	10,929.91	131,158.97
		STEP K	64.6145	5,169.16	11,199.84	134,398.16
		STEP L	66.2102	5,296.81	11,476.43	137,717.21
		STEP M	67.8453	5,427.62	11,759.85	141,118.22
B767	FIRE BATTALION CHIEF (24HR)					
		STEP A	36.1622	4,050.16	8,775.36	105,304.32
		STEP B	37.0549	4,150.14	8,991.98	107,903.86
		STEP C	37.9700	4,252.64	9,214.05	110,568.64
		STEP D	38.9077	4,357.66	9,441.60	113,299.22
		STEP E	39.8686	4,465.28	9,674.78	116,097.36
		STEP F	40.8532	4,575.55	9,913.70	118,964.51
		STEP G	41.8621	4,688.55	10,158.53	121,902.43
		STEP H	42.8959	4,804.34	10,409.40	124,912.86
		STEP I	43.9553	4,922.99	10,666.48	127,997.83
		STEP J	45.0408	5,044.56	10,929.90	131,158.80
		STEP K	46.1532	5,169.15	11,199.84	134,398.11
		STEP L	47.2930	5,296.81	11,476.43	137,717.21
		STEP M	48.4609	5,427.62	11,759.84	141,118.14
B768	FIRE CHIEF					
		STEP A	72.7667	5,821.33	12,612.89	151,354.73
		STEP B	74.5628	5,965.02	12,924.21	155,090.62
		STEP C	76.4042	6,112.33	13,243.39	158,920.73
		STEP D	78.2911	6,263.28	13,570.45	162,845.48
		STEP E	80.2246	6,417.96	13,905.59	166,867.16
		STEP F	82.2058	6,576.46	14,249.00	170,988.06
		STEP G	84.2360	6,738.88	14,600.90	175,210.88
		STEP H	86.3163	6,905.30	14,961.49	179,537.90
		STEP I	88.4479	7,075.83	15,330.96	183,971.63
		STEP J	90.6322	7,250.57	15,709.58	188,514.97
		STEP K	92.8705	7,429.64	16,097.55	193,170.64
		STEP L	95.1640	7,613.12	16,495.09	197,941.12
		STEP M	97.5142	7,801.13	16,902.46	202,829.53

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B769	FIRE DIVISION CHIEF					
		STEP A	55.6902	4,455.21	9,652.96	115,835.61
		STEP B	57.0648	4,565.18	9,891.23	118,694.78
		STEP C	58.4741	4,677.92	10,135.51	121,626.12
		STEP D	59.9182	4,793.45	10,385.82	124,629.85
		STEP E	61.3979	4,911.83	10,642.30	127,707.63
		STEP F	62.9142	5,033.13	10,905.12	130,861.53
		STEP G	64.4679	5,157.43	11,174.43	134,093.23
		STEP H	66.0600	5,284.80	11,450.40	137,404.80
		STEP I	67.6915	5,415.32	11,733.19	140,798.32
		STEP J	69.3632	5,549.05	12,022.95	144,275.45
		STEP K	71.0762	5,686.09	12,319.87	147,838.49
		STEP L	72.8315	5,826.52	12,624.12	151,489.52
		STEP M	74.6301	5,970.40	12,935.88	155,230.60
B770	FLEET MANAGER					
		STEP A	40.5824	3,246.59	7,034.28	84,411.39
		STEP B	41.5839	3,326.71	7,207.87	86,494.51
		STEP C	42.6109	3,408.87	7,385.88	88,630.67
		STEP D	43.6632	3,493.05	7,568.28	90,819.45
		STEP E	44.7415	3,579.32	7,755.19	93,062.32
		STEP F	45.8465	3,667.72	7,946.72	95,360.72
		STEP G	46.9787	3,758.29	8,142.97	97,715.69
		STEP H	48.1389	3,851.11	8,344.07	100,128.91
		STEP I	49.3277	3,946.21	8,550.13	102,601.61
		STEP J	50.5459	4,043.67	8,761.28	105,135.47
		STEP K	51.7942	4,143.53	8,977.66	107,731.93
		STEP L	53.0733	4,245.86	9,199.37	110,392.46
		STEP M	54.3840	4,350.72	9,426.56	113,118.72
B771	GOVERNMENT RELATIONS ADMINISTR					
		STEP A	43.9043	3,512.34	7,610.07	91,320.94
		STEP B	44.9880	3,599.04	7,797.92	93,575.04
		STEP C	46.0990	3,687.92	7,990.49	95,885.92
		STEP D	47.2374	3,778.99	8,187.81	98,253.79
		STEP E	48.4040	3,872.32	8,390.02	100,680.32
		STEP F	49.5994	3,967.95	8,597.22	103,166.75
		STEP G	50.8243	4,065.94	8,809.54	105,714.54
		STEP H	52.0795	4,166.36	9,027.11	108,325.36
		STEP I	53.3656	4,269.24	9,250.03	111,000.44
		STEP J	54.6835	4,374.68	9,478.47	113,741.68
		STEP K	56.0340	4,482.72	9,712.56	116,550.72
		STEP L	57.4178	4,593.42	9,952.41	119,429.02
		STEP M	58.8358	4,706.86	10,198.20	122,378.46

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B772	HOUSING SUPERVISOR					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	37.4902	2,999.21	6,498.30	77,979.61
		STEP C	38.4160	3,073.28	6,658.77	79,905.28
		STEP D	39.3647	3,149.17	6,823.21	81,878.57
		STEP E	40.3369	3,226.95	6,991.72	83,900.75
		STEP F	41.3331	3,306.64	7,164.40	85,972.84
		STEP G	42.3538	3,388.30	7,341.32	88,095.90
		STEP H	43.3998	3,471.98	7,522.63	90,271.58
		STEP I	44.4716	3,557.72	7,708.41	92,500.92
		STEP J	45.5699	3,645.59	7,898.78	94,785.39
		STEP K	46.6952	3,735.61	8,093.83	97,126.01
		STEP L	47.8484	3,827.87	8,293.72	99,524.67
		STEP M	49.0301	3,922.40	8,498.55	101,982.60
B773	HUMAN RESOURCES ANALYST I					
		STEP A	32.2511	2,580.08	5,590.19	67,082.28
		STEP B	33.0472	2,643.77	5,728.18	68,738.17
		STEP C	33.8633	2,709.06	5,869.63	70,435.66
		STEP D	34.6996	2,775.96	6,014.59	72,175.16
		STEP E	35.5565	2,844.52	6,163.12	73,957.52
		STEP F	36.4346	2,914.76	6,315.33	75,783.96
		STEP G	37.3344	2,986.75	6,471.29	77,655.55
		STEP H	38.2564	3,060.51	6,631.10	79,573.31
		STEP I	39.2012	3,136.09	6,794.87	81,538.49
		STEP J	40.1693	3,213.54	6,962.67	83,552.14
		STEP K	41.1614	3,292.91	7,134.64	85,615.71
		STEP L	42.1779	3,374.23	7,310.83	87,730.03
		STEP M	43.2195	3,457.56	7,491.38	89,896.56
B774	HUMAN RESOURCES ANALYST II					
		STEP A	35.4797	2,838.37	6,149.81	73,797.77
		STEP B	36.3555	2,908.44	6,301.62	75,619.44
		STEP C	37.2534	2,980.27	6,457.25	77,487.07
		STEP D	38.1734	3,053.87	6,616.72	79,400.67
		STEP E	39.1161	3,129.28	6,780.12	81,361.48
		STEP F	40.0821	3,206.56	6,947.56	83,370.76
		STEP G	41.0720	3,285.76	7,119.14	85,429.76
		STEP H	42.0863	3,366.90	7,294.95	87,539.50
		STEP I	43.1256	3,450.04	7,475.10	89,701.24
		STEP J	44.1907	3,535.25	7,659.72	91,916.65
		STEP K	45.2820	3,622.56	7,848.88	94,186.56
		STEP L	46.4003	3,712.02	8,042.71	96,512.62
		STEP M	47.5462	3,803.69	8,241.34	98,896.09

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B775	HUMAN RESOURCES DIRECTOR					
		STEP A	61.0708	4,885.66	10,585.60	127,027.26
		STEP B	62.5784	5,006.27	10,846.92	130,163.07
		STEP C	64.1238	5,129.90	11,114.79	133,377.50
		STEP D	65.7074	5,256.59	11,389.28	136,671.39
		STEP E	67.3301	5,386.40	11,670.55	140,046.60
		STEP F	68.9929	5,519.43	11,958.76	143,505.23
		STEP G	70.6968	5,655.74	12,254.11	147,049.34
		STEP H	72.4427	5,795.41	12,556.73	150,680.81
		STEP I	74.2318	5,938.54	12,866.84	154,402.14
		STEP J	76.0650	6,085.20	13,184.60	158,215.20
		STEP K	77.9435	6,235.48	13,510.20	162,122.48
		STEP L	79.8684	6,389.47	13,843.85	166,126.27
		STEP M	81.8408	6,547.26	14,185.73	170,228.86
B776	HUMAN RESOURCES MANAGER					
		STEP A	41.6683	3,333.46	7,222.50	86,670.06
		STEP B	42.6971	3,415.76	7,400.83	88,809.96
		STEP C	43.7516	3,500.12	7,583.61	91,003.32
		STEP D	44.8320	3,586.56	7,770.88	93,250.56
		STEP E	45.9392	3,675.13	7,962.79	95,553.53
		STEP F	47.0737	3,765.89	8,159.44	97,913.29
		STEP G	48.2363	3,858.90	8,360.95	100,331.50
		STEP H	49.4275	3,954.20	8,567.43	102,809.20
		STEP I	50.6482	4,051.85	8,779.02	105,348.25
		STEP J	51.8990	4,151.92	8,995.82	107,949.92
		STEP K	53.1807	4,254.45	9,217.98	110,615.85
		STEP L	54.4940	4,359.52	9,445.62	113,347.52
		STEP M	55.8398	4,467.18	9,678.89	116,146.78
B777	INFO SECURITY ADMINISTRATOR					
		STEP A	42.8581	3,428.64	7,428.73	89,144.84
		STEP B	43.9160	3,513.28	7,612.10	91,345.28
		STEP C	45.0006	3,600.04	7,800.10	93,601.24
		STEP D	46.1119	3,688.95	7,992.72	95,912.75
		STEP E	47.2507	3,780.05	8,190.12	98,281.45
		STEP F	48.4176	3,873.40	8,392.38	100,708.60
		STEP G	49.6133	3,969.06	8,599.63	103,195.66
		STEP H	50.8385	4,067.08	8,812.00	105,744.08
		STEP I	52.0941	4,167.52	9,029.64	108,355.72
		STEP J	53.3806	4,270.44	9,252.63	111,031.64
		STEP K	54.6989	4,375.91	9,481.14	113,773.71
		STEP L	56.0497	4,483.97	9,715.28	116,583.37
		STEP M	57.4339	4,594.71	9,955.20	119,462.51

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B778	INTERPRETIVE SRVCS SUPERVISOR					
		STEP A	31.2307	2,498.45	5,413.32	64,959.85
		STEP B	32.0020	2,560.16	5,547.01	66,564.16
		STEP C	32.7923	2,623.38	5,684.00	68,207.98
		STEP D	33.6022	2,688.17	5,824.38	69,892.57
		STEP E	34.4320	2,754.56	5,968.21	71,618.56
		STEP F	35.2823	2,822.58	6,115.59	73,387.18
		STEP G	36.1537	2,892.29	6,266.64	75,199.69
		STEP H	37.0465	2,963.72	6,421.39	77,056.72
		STEP I	37.9614	3,036.91	6,579.97	78,959.71
		STEP J	38.8989	3,111.91	6,742.47	80,909.71
		STEP K	39.8596	3,188.76	6,909.00	82,907.96
		STEP L	40.8439	3,267.51	7,079.60	84,955.31
		STEP M	41.8526	3,348.20	7,254.45	87,053.40
B779	IT DIVISION MANAGER					
		STEP A	44.7165	3,577.32	7,750.86	93,010.32
		STEP B	45.8208	3,665.66	7,942.27	95,307.26
		STEP C	46.9524	3,756.19	8,138.41	97,660.99
		STEP D	48.1119	3,848.95	8,339.39	100,072.75
		STEP E	49.3001	3,944.00	8,545.35	102,544.20
		STEP F	50.5176	4,041.40	8,756.38	105,076.60
		STEP G	51.7652	4,141.21	8,972.63	107,671.61
		STEP H	53.0436	4,243.48	9,194.22	110,330.68
		STEP I	54.3535	4,348.28	9,421.27	113,055.28
		STEP J	55.6958	4,455.66	9,653.93	115,847.26
		STEP K	57.0713	4,565.70	9,892.35	118,708.30
		STEP L	58.4807	4,678.45	10,136.65	121,639.85
		STEP M	59.9250	4,794.00	10,387.00	124,644.00
B781	IT PROGRAM MANAGER					
		STEP A	40.6545	3,252.36	7,046.78	84,561.36
		STEP B	41.6585	3,332.68	7,220.80	86,649.68
		STEP C	42.6873	3,414.98	7,399.13	88,789.58
		STEP D	43.7415	3,499.32	7,581.86	90,982.32
		STEP E	44.8217	3,585.73	7,769.09	93,229.13
		STEP F	45.9286	3,674.28	7,960.95	95,531.48
		STEP G	47.0629	3,765.03	8,157.56	97,890.83
		STEP H	48.2252	3,858.01	8,359.03	100,308.41
		STEP I	49.4161	3,953.28	8,565.45	102,785.48
		STEP J	50.6365	4,050.92	8,776.99	105,323.92
		STEP K	51.8870	4,150.96	8,993.74	107,924.96
		STEP L	53.1684	4,253.47	9,215.85	110,590.27
		STEP M	54.4815	4,358.52	9,443.46	113,321.52

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B782	KEY ACCOUNTS REPRESENTATIVE					
		STEP A	47.6233	3,809.86	8,254.70	99,056.46
		STEP B	48.7987	3,903.89	8,458.44	101,501.29
		STEP C	50.0039	4,000.31	8,667.34	104,008.11
		STEP D	51.2388	4,099.10	8,881.39	106,576.70
		STEP E	52.5042	4,200.33	9,100.72	109,208.73
		STEP F	53.8008	4,304.06	9,325.47	111,905.66
		STEP G	55.1295	4,410.36	9,555.78	114,669.36
		STEP H	56.4909	4,519.27	9,791.75	117,501.07
		STEP I	57.8860	4,630.88	10,033.57	120,402.88
		STEP J	59.3156	4,745.24	10,281.37	123,376.44
		STEP K	60.7805	4,862.44	10,535.28	126,423.44
		STEP L	62.2815	4,982.52	10,795.46	129,545.52
		STEP M	63.8196	5,105.56	11,062.06	132,744.76
B783	LIBRARY SUPERVISOR					
		STEP A	32.1157	2,569.25	5,566.72	66,800.65
		STEP B	32.9086	2,632.68	5,704.15	68,449.88
		STEP C	33.7213	2,697.70	5,845.02	70,140.30
		STEP D	34.5541	2,764.32	5,989.37	71,872.52
		STEP E	35.4075	2,832.60	6,137.30	73,647.60
		STEP F	36.2819	2,902.55	6,288.86	75,466.35
		STEP G	37.1779	2,974.23	6,444.16	77,330.03
		STEP H	38.0960	3,047.68	6,603.30	79,239.68
		STEP I	39.0369	3,122.95	6,766.39	81,196.75
		STEP J	40.0009	3,200.07	6,933.48	83,201.87
		STEP K	40.9888	3,279.10	7,104.72	85,256.70
		STEP L	42.0010	3,360.08	7,280.17	87,362.08
		STEP M	43.0383	3,443.06	7,459.97	89,519.66
B784	MANAGEMENT ANALYST					
		STEP A	38.4165	3,073.32	6,658.86	79,906.32
		STEP B	39.3646	3,149.16	6,823.19	81,878.36
		STEP C	40.3367	3,226.93	6,991.69	83,900.33
		STEP D	41.3329	3,306.63	7,164.36	85,972.43
		STEP E	42.3537	3,388.29	7,341.30	88,095.69
		STEP F	43.3996	3,471.96	7,522.59	90,271.16
		STEP G	44.4714	3,557.71	7,708.37	92,500.51
		STEP H	45.5697	3,645.57	7,898.74	94,784.97
		STEP I	46.6951	3,735.60	8,093.81	97,125.80
		STEP J	47.8483	3,827.86	8,293.70	99,524.46
		STEP K	49.0299	3,922.39	8,498.51	101,982.19
		STEP L	50.2408	4,019.26	8,708.40	104,500.86
		STEP M	51.4815	4,118.52	8,923.46	107,081.52

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B785	MAPPING SUPERVISOR					
		STEP A	36.5871	2,926.96	6,341.76	76,101.16
		STEP B	37.4902	2,999.21	6,498.30	77,979.61
		STEP C	38.4160	3,073.28	6,658.77	79,905.28
		STEP D	39.3647	3,149.17	6,823.21	81,878.57
		STEP E	40.3369	3,226.95	6,991.72	83,900.75
		STEP F	41.3331	3,306.64	7,164.40	85,972.84
		STEP G	42.3538	3,388.30	7,341.32	88,095.90
		STEP H	43.3998	3,471.98	7,522.63	90,271.58
		STEP I	44.4716	3,557.72	7,708.41	92,500.92
		STEP J	45.5699	3,645.59	7,898.78	94,785.39
		STEP K	46.6952	3,735.61	8,093.83	97,126.01
		STEP L	47.8484	3,827.87	8,293.72	99,524.67
		STEP M	49.0301	3,922.40	8,498.55	101,982.60
B786	METER SERVICES SUPERVISOR					
		STEP A	24.2042	1,936.33	4,195.39	50,344.73
		STEP B	24.8019	1,984.15	4,299.00	51,587.95
		STEP C	25.4144	2,033.15	4,405.16	52,861.95
		STEP D	26.0421	2,083.36	4,513.96	54,167.56
		STEP E	26.6852	2,134.81	4,625.43	55,505.21
		STEP F	27.3442	2,187.53	4,739.66	56,875.93
		STEP G	28.0195	2,241.56	4,856.71	58,280.56
		STEP H	28.7115	2,296.92	4,976.66	59,719.92
		STEP I	29.4205	2,353.64	5,099.55	61,194.64
		STEP J	30.1471	2,411.76	5,225.49	62,705.96
		STEP K	30.8916	2,471.32	5,354.54	64,254.52
		STEP L	31.6545	2,532.36	5,486.78	65,841.36
		STEP M	32.4363	2,594.90	5,622.29	67,467.50
B787	OPEN SPACE SUPERINTENDENT					
		STEP A	37.0282	2,962.25	6,418.22	77,018.65
		STEP B	37.9426	3,035.40	6,576.71	78,920.60
		STEP C	38.8797	3,110.37	6,739.14	80,869.77
		STEP D	39.8398	3,187.18	6,905.56	82,866.78
		STEP E	40.8237	3,265.89	7,076.10	84,913.29
		STEP F	41.8319	3,346.55	7,250.86	87,010.35
		STEP G	42.8650	3,429.20	7,429.93	89,159.20
		STEP H	43.9236	3,513.88	7,613.42	91,361.08
		STEP I	45.0083	3,600.66	7,801.43	93,617.26
		STEP J	46.1198	3,689.58	7,994.09	95,929.18
		STEP K	47.2588	3,780.70	8,191.52	98,298.30
		STEP L	48.4259	3,874.07	8,393.82	100,725.87
		STEP M	49.6218	3,969.74	8,601.11	103,213.34

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B788	PARK DEVELOPMENT ANALYST I					
		STEP A	33.2609	2,660.87	5,765.22	69,182.67
		STEP B	34.0820	2,726.56	5,907.54	70,890.56
		STEP C	34.9236	2,793.88	6,053.42	72,641.08
		STEP D	35.7861	2,862.88	6,202.92	74,435.08
		STEP E	36.6699	2,933.59	6,356.11	76,273.39
		STEP F	37.5755	3,006.04	6,513.08	78,157.04
		STEP G	38.5035	3,080.28	6,673.94	80,087.28
		STEP H	39.4543	3,156.34	6,838.74	82,064.94
		STEP I	40.4287	3,234.29	7,007.64	84,091.69
		STEP J	41.4271	3,314.16	7,180.69	86,168.36
		STEP K	42.4502	3,396.01	7,358.03	88,296.41
		STEP L	43.4986	3,479.88	7,539.75	90,477.08
		STEP M	44.5728	3,565.82	7,725.95	92,711.42
B789	PARK DEVELOPMENT ANALYST II					
		STEP A	36.5872	2,926.97	6,341.78	76,101.37
		STEP B	37.4902	2,999.21	6,498.30	77,979.61
		STEP C	38.4160	3,073.28	6,658.77	79,905.28
		STEP D	39.3647	3,149.17	6,823.21	81,878.57
		STEP E	40.3369	3,226.95	6,991.72	83,900.75
		STEP F	41.3331	3,306.64	7,164.40	85,972.84
		STEP G	42.3538	3,388.30	7,341.32	88,095.90
		STEP H	43.3998	3,471.98	7,522.63	90,271.58
		STEP I	44.4716	3,557.72	7,708.41	92,500.92
		STEP J	45.5699	3,645.59	7,898.78	94,785.39
		STEP K	46.6952	3,735.61	8,093.83	97,126.01
		STEP L	47.8484	3,827.87	8,293.72	99,524.67
		STEP M	49.0301	3,922.40	8,498.55	101,982.60
B790	PARK PLANNING & DEVELOPMT SUPT					
		STEP A	37.0282	2,962.25	6,418.22	77,018.65
		STEP B	37.9426	3,035.40	6,576.71	78,920.60
		STEP C	38.8797	3,110.37	6,739.14	80,869.77
		STEP D	39.8398	3,187.18	6,905.56	82,866.78
		STEP E	40.8237	3,265.89	7,076.10	84,913.29
		STEP F	41.8319	3,346.55	7,250.86	87,010.35
		STEP G	42.8650	3,429.20	7,429.93	89,159.20
		STEP H	43.9236	3,513.88	7,613.42	91,361.08
		STEP I	45.0083	3,600.66	7,801.43	93,617.26
		STEP J	46.1198	3,689.58	7,994.09	95,929.18
		STEP K	47.2588	3,780.70	8,191.52	98,298.30
		STEP L	48.4259	3,874.07	8,393.82	100,725.87
		STEP M	49.6218	3,969.74	8,601.11	103,213.34

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B791	PARKS SUPERINTENDENT					
		STEP A	37.0282	2,962.25	6,418.22	77,018.65
		STEP B	37.9426	3,035.40	6,576.71	78,920.60
		STEP C	38.8797	3,110.37	6,739.14	80,869.77
		STEP D	39.8398	3,187.18	6,905.56	82,866.78
		STEP E	40.8237	3,265.89	7,076.10	84,913.29
		STEP F	41.8319	3,346.55	7,250.86	87,010.35
		STEP G	42.8650	3,429.20	7,429.93	89,159.20
		STEP H	43.9236	3,513.88	7,613.42	91,361.08
		STEP I	45.0083	3,600.66	7,801.43	93,617.26
		STEP J	46.1198	3,689.58	7,994.09	95,929.18
		STEP K	47.2588	3,780.70	8,191.52	98,298.30
		STEP L	48.4259	3,874.07	8,393.82	100,725.87
		STEP M	49.6218	3,969.74	8,601.11	103,213.34
B792	PARKS SUPERVISOR					
		STEP A	29.9659	2,397.27	5,194.08	62,329.07
		STEP B	30.7059	2,456.47	5,322.35	63,868.27
		STEP C	31.4642	2,517.13	5,453.79	65,445.53
		STEP D	32.2413	2,579.30	5,588.49	67,061.90
		STEP E	33.0375	2,643.00	5,726.50	68,718.00
		STEP F	33.8534	2,708.27	5,867.92	70,415.07
		STEP G	34.6895	2,775.16	6,012.84	72,154.16
		STEP H	35.5461	2,843.68	6,161.32	73,935.88
		STEP I	36.4240	2,913.92	6,313.49	75,761.92
		STEP J	37.3235	2,985.88	6,469.40	77,632.88
		STEP K	38.2453	3,059.62	6,629.18	79,550.22
		STEP L	39.1898	3,135.18	6,792.89	81,514.78
		STEP M	40.1576	3,212.60	6,960.65	83,527.80
B794	PARKS,REC & LIBRARIES DIRECTOR					
		STEP A	66.0802	5,286.41	11,453.90	137,446.81
		STEP B	67.7114	5,416.91	11,736.64	140,839.71
		STEP C	69.3836	5,550.68	12,026.49	144,317.88
		STEP D	71.0971	5,687.76	12,323.49	147,881.96
		STEP E	72.8529	5,828.23	12,627.83	151,534.03
		STEP F	74.6521	5,972.16	12,939.69	155,276.36
		STEP G	76.4957	6,119.65	13,259.25	159,111.05
		STEP H	78.3848	6,270.78	13,586.69	163,040.38
		STEP I	80.3206	6,425.64	13,922.23	167,066.84
		STEP J	82.3042	6,584.33	14,266.06	171,192.73
		STEP K	84.3368	6,746.94	14,618.37	175,420.54
		STEP L	86.4196	6,913.56	14,979.39	179,752.76
		STEP M	88.5538	7,084.30	15,349.32	184,191.90

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B793	PARKS,REC & LIBRARY BUS ADMSTR					
		STEP A	37.0442	2,963.53	6,420.99	77,051.93
		STEP B	37.9591	3,036.72	6,579.57	78,954.92
		STEP C	38.8965	3,111.72	6,742.06	80,904.72
		STEP D	39.8571	3,188.56	6,908.56	82,902.76
		STEP E	40.8414	3,267.31	7,079.17	84,950.11
		STEP F	41.8500	3,348.00	7,254.00	87,048.00
		STEP G	42.8836	3,430.68	7,433.15	89,197.88
		STEP H	43.9426	3,515.40	7,616.71	91,400.60
		STEP I	45.0278	3,602.22	7,804.81	93,657.82
		STEP J	46.1398	3,691.18	7,997.56	95,970.78
		STEP K	47.2793	3,782.34	8,195.07	98,340.94
		STEP L	48.4469	3,875.75	8,397.46	100,769.55
		STEP M	49.6433	3,971.46	8,604.83	103,258.06
B795	PLANNING MANAGER					
		STEP A	55.5189	4,441.51	9,623.27	115,479.31
		STEP B	56.8894	4,551.15	9,860.82	118,329.95
		STEP C	58.2944	4,663.55	10,104.36	121,252.35
		STEP D	59.7340	4,778.72	10,353.89	124,246.72
		STEP E	61.2092	4,896.73	10,609.59	127,315.13
		STEP F	62.7208	5,017.66	10,871.60	130,459.26
		STEP G	64.2698	5,141.58	11,140.09	133,681.18
		STEP H	65.8570	5,268.56	11,415.21	136,982.56
		STEP I	67.4834	5,398.67	11,697.12	140,365.47
		STEP J	69.1500	5,532.00	11,986.00	143,832.00
		STEP K	70.8577	5,668.61	12,282.00	147,384.01
		STEP L	72.6076	5,808.60	12,585.31	151,023.80
		STEP M	74.4007	5,952.05	12,896.12	154,753.45
B796	POLICE CAPTAIN					
		STEP A	57.9703	4,637.62	10,048.18	120,578.22
		STEP B	59.4013	4,752.10	10,296.22	123,554.70
		STEP C	60.8682	4,869.45	10,550.48	126,605.85
		STEP D	62.3714	4,989.71	10,811.04	129,732.51
		STEP E	63.9118	5,112.94	11,078.04	132,936.54
		STEP F	65.4901	5,239.20	11,351.61	136,219.40
		STEP G	67.1075	5,368.60	11,631.96	139,583.60
		STEP H	68.7648	5,501.18	11,919.23	143,030.78
		STEP I	70.4630	5,637.04	12,213.58	146,563.04
		STEP J	72.2031	5,776.24	12,515.20	150,182.44
		STEP K	73.9862	5,918.89	12,824.27	153,891.29
		STEP L	75.8134	6,065.07	13,140.98	157,691.87
		STEP M	77.6857	6,214.85	13,465.52	161,586.25

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B797	POLICE CHIEF	STEP A	77.9578	6,236.62	13,512.68	162,152.22
		STEP B	79.8820	6,390.56	13,846.21	166,154.56
		STEP C	81.8548	6,548.38	14,188.16	170,257.98
		STEP D	83.8763	6,710.10	14,538.55	174,462.70
		STEP E	85.9477	6,875.81	14,897.60	178,771.21
		STEP F	88.0702	7,045.61	15,265.50	183,186.01
		STEP G	90.2452	7,219.61	15,642.50	187,710.01
		STEP H	92.4739	7,397.91	16,028.80	192,345.71
		STEP I	94.7577	7,580.61	16,424.66	197,096.01
		STEP J	97.0978	7,767.82	16,830.28	201,963.42
		STEP K	99.4957	7,959.65	17,245.92	206,951.05
		STEP L	101.9529	8,156.23	17,671.83	212,062.03
		STEP M	104.4707	8,357.65	18,108.25	217,299.05
B798	POLICE LIEUTENANT	STEP A	52.6215	4,209.72	9,121.06	109,452.72
		STEP B	53.9204	4,313.63	9,346.20	112,154.43
		STEP C	55.2520	4,420.16	9,577.01	114,924.16
		STEP D	56.6165	4,529.32	9,813.52	117,762.32
		STEP E	58.0148	4,641.18	10,055.89	120,670.78
		STEP F	59.4475	4,755.80	10,304.23	123,650.80
		STEP G	60.9156	4,873.24	10,558.70	126,704.44
		STEP H	62.4200	4,993.60	10,819.46	129,833.60
		STEP I	63.9615	5,116.92	11,086.66	133,039.92
		STEP J	65.5411	5,243.28	11,360.45	136,325.48
		STEP K	67.1597	5,372.77	11,641.01	139,692.17
		STEP L	68.8183	5,505.46	11,928.50	143,142.06
		STEP M	70.5178	5,641.42	12,223.08	146,677.02
B799	POLICE SERVICES ADMINISTRATOR	STEP A	41.4691	3,317.52	7,187.97	86,255.72
		STEP B	42.4929	3,399.43	7,365.43	88,385.23
		STEP C	43.5424	3,483.39	7,547.34	90,568.19
		STEP D	44.6177	3,569.41	7,733.73	92,804.81
		STEP E	45.7196	3,657.56	7,924.73	95,096.76
		STEP F	46.8486	3,747.88	8,120.42	97,445.08
		STEP G	48.0056	3,840.44	8,320.97	99,851.64
		STEP H	49.1912	3,935.29	8,526.47	102,317.69
		STEP I	50.4060	4,032.48	8,737.04	104,844.48
		STEP J	51.6508	4,132.06	8,952.80	107,433.66
		STEP K	52.9264	4,234.11	9,173.90	110,086.91
		STEP L	54.2335	4,338.68	9,400.47	112,805.68
		STEP M	55.5728	4,445.82	9,632.61	115,591.42

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B800	POLICE SOCIAL SVCS ADMINSTR					
		STEP A	43.9043	3,512.34	7,610.07	91,320.94
		STEP B	44.9880	3,599.04	7,797.92	93,575.04
		STEP C	46.0990	3,687.92	7,990.49	95,885.92
		STEP D	47.2374	3,778.99	8,187.81	98,253.79
		STEP E	48.4040	3,872.32	8,390.02	100,680.32
		STEP F	49.5994	3,967.95	8,597.22	103,166.75
		STEP G	50.8243	4,065.94	8,809.54	105,714.54
		STEP H	52.0795	4,166.36	9,027.11	108,325.36
		STEP I	53.3656	4,269.24	9,250.03	111,000.44
		STEP J	54.6835	4,374.68	9,478.47	113,741.68
		STEP K	56.0340	4,482.72	9,712.56	116,550.72
		STEP L	57.4178	4,593.42	9,952.41	119,429.02
		STEP M	58.8358	4,706.86	10,198.20	122,378.46
B801	POWER ENGINEERING MANAGER					
		STEP A	67.5845	5,406.76	11,714.64	140,575.76
		STEP B	69.2528	5,540.22	12,003.81	144,045.82
		STEP C	70.9631	5,677.04	12,300.27	147,603.24
		STEP D	72.7156	5,817.24	12,604.03	151,248.44
		STEP E	74.5114	5,960.91	12,915.30	154,983.71
		STEP F	76.3515	6,108.12	13,234.26	158,811.12
		STEP G	78.2371	6,258.96	13,561.09	162,733.16
		STEP H	80.1692	6,413.53	13,895.99	166,751.93
		STEP I	82.1491	6,571.92	14,239.17	170,870.12
		STEP J	84.1778	6,734.22	14,590.81	175,089.82
		STEP K	86.2567	6,900.53	14,951.16	179,413.93
		STEP L	88.3869	7,070.95	15,320.39	183,844.75
		STEP M	90.5697	7,245.57	15,698.74	188,384.97
B802	POWER GENERATION SUPERTINDENT					
		STEP A	62.0272	4,962.17	10,751.38	129,016.57
		STEP B	63.5584	5,084.67	11,016.78	132,201.47
		STEP C	65.1281	5,210.24	11,288.87	135,466.44
		STEP D	66.7365	5,338.92	11,567.66	138,811.92
		STEP E	68.3846	5,470.76	11,853.33	142,239.96
		STEP F	70.0734	5,605.87	12,146.05	145,752.67
		STEP G	71.8040	5,744.32	12,446.02	149,352.32
		STEP H	73.5772	5,886.17	12,753.38	153,040.57
		STEP I	75.3943	6,031.54	13,068.34	156,820.14
		STEP J	77.2562	6,180.49	13,391.07	160,692.89
		STEP K	79.1641	6,333.12	13,721.77	164,661.32
		STEP L	81.1192	6,489.53	14,060.66	168,727.93
		STEP M	83.1225	6,649.80	14,407.90	172,894.80

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B803	POWER PLANT OPS & MAINT SUPV					
		STEP A	59.0692	4,725.53	10,238.66	122,863.93
		STEP B	60.5273	4,842.18	10,491.39	125,896.78
		STEP C	62.0221	4,961.76	10,750.49	129,005.96
		STEP D	63.5538	5,084.30	11,015.99	132,191.90
		STEP E	65.1233	5,209.86	11,288.03	135,456.46
		STEP F	66.7316	5,338.52	11,566.81	138,801.72
		STEP G	68.3796	5,470.36	11,852.46	142,229.56
		STEP H	70.0683	5,605.46	12,145.17	145,742.06
		STEP I	71.7987	5,743.89	12,445.10	149,341.29
		STEP J	73.5719	5,885.75	12,752.46	153,029.55
		STEP K	75.3888	6,031.10	13,067.39	156,808.70
		STEP L	77.2506	6,180.04	13,390.10	160,681.24
		STEP M	79.1584	6,332.67	13,720.78	164,649.47
B804	POWER SUPPLY & PORTFOLIO ADMST					
		STEP A	64.1688	5,133.50	11,122.59	133,471.10
		STEP B	65.7529	5,260.23	11,397.16	136,766.03
		STEP C	67.3767	5,390.13	11,678.62	140,143.53
		STEP D	69.0406	5,523.24	11,967.03	143,604.44
		STEP E	70.7457	5,659.65	12,262.58	147,151.05
		STEP F	72.4928	5,799.42	12,565.41	150,785.02
		STEP G	74.2831	5,942.64	12,875.73	154,508.84
		STEP H	76.1176	6,089.40	13,193.71	158,324.60
		STEP I	77.9974	6,239.79	13,519.54	162,234.59
		STEP J	79.9236	6,393.88	13,853.42	166,241.08
		STEP K	81.8974	6,551.79	14,195.54	170,346.59
		STEP L	83.9199	6,713.59	14,546.11	174,553.39
		STEP M	85.9924	6,879.39	14,905.34	178,864.19
B805	PREVENTATIVE MAINT SUPERVISOR					
		STEP A	42.7162	3,417.29	7,404.14	88,849.69
		STEP B	43.7704	3,501.63	7,586.86	91,042.43
		STEP C	44.8514	3,588.11	7,774.24	93,290.91
		STEP D	45.9590	3,676.72	7,966.22	95,594.72
		STEP E	47.0940	3,767.52	8,162.96	97,955.52
		STEP F	48.2571	3,860.56	8,364.56	100,374.76
		STEP G	49.4488	3,955.90	8,571.12	102,853.50
		STEP H	50.6700	4,053.60	8,782.80	105,393.60
		STEP I	51.9214	4,153.71	8,999.70	107,996.51
		STEP J	53.2036	4,256.28	9,221.95	110,663.48
		STEP K	54.5175	4,361.40	9,449.70	113,396.40
		STEP L	55.8639	4,469.11	9,683.07	116,196.91
		STEP M	57.2435	4,579.48	9,922.20	119,066.48

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B806	PRINCIPAL ENGINEER					
		STEP A	50.2219	4,017.75	8,705.12	104,461.55
		STEP B	51.4615	4,116.92	8,919.99	107,039.92
		STEP C	52.7324	4,218.59	9,140.28	109,683.39
		STEP D	54.0347	4,322.77	9,366.01	112,392.17
		STEP E	55.3691	4,429.52	9,597.31	115,167.72
		STEP F	56.7365	4,538.92	9,834.32	118,011.92
		STEP G	58.1377	4,651.01	10,077.20	120,926.41
		STEP H	59.5735	4,765.88	10,326.07	123,912.88
		STEP I	61.0447	4,883.57	10,581.08	126,972.97
		STEP J	62.5522	5,004.17	10,842.38	130,108.57
		STEP K	64.0970	5,127.76	11,110.14	133,321.76
		STEP L	65.6800	5,254.40	11,384.53	136,614.40
		STEP M	67.3020	5,384.16	11,665.68	139,988.16
B807	PRINCIPAL PLANNER					
		STEP A	46.3792	3,710.33	8,039.06	96,468.73
		STEP B	47.5241	3,801.92	8,237.51	98,850.12
		STEP C	48.6977	3,895.81	8,440.93	101,291.21
		STEP D	49.9004	3,992.03	8,649.40	103,792.83
		STEP E	51.1327	4,090.61	8,863.00	106,356.01
		STEP F	52.3955	4,191.64	9,081.88	108,982.64
		STEP G	53.6895	4,295.16	9,306.18	111,674.16
		STEP H	55.0154	4,401.23	9,536.00	114,432.03
		STEP I	56.3740	4,509.92	9,771.49	117,257.92
		STEP J	57.7663	4,621.30	10,012.82	120,153.90
		STEP K	59.1928	4,735.42	10,260.08	123,121.02
		STEP L	60.6547	4,852.37	10,513.48	126,161.77
		STEP M	62.1526	4,972.20	10,773.11	129,277.40
B808	PUB AFFAIRS&COMMUNICAT ADMNSTR					
		STEP A	43.9043	3,512.34	7,610.07	91,320.94
		STEP B	44.9880	3,599.04	7,797.92	93,575.04
		STEP C	46.0990	3,687.92	7,990.49	95,885.92
		STEP D	47.2374	3,778.99	8,187.81	98,253.79
		STEP E	48.4040	3,872.32	8,390.02	100,680.32
		STEP F	49.5994	3,967.95	8,597.22	103,166.75
		STEP G	50.8243	4,065.94	8,809.54	105,714.54
		STEP H	52.0795	4,166.36	9,027.11	108,325.36
		STEP I	53.3656	4,269.24	9,250.03	111,000.44
		STEP J	54.6835	4,374.68	9,478.47	113,741.68
		STEP K	56.0340	4,482.72	9,712.56	116,550.72
		STEP L	57.4178	4,593.42	9,952.41	119,429.02
		STEP M	58.8358	4,706.86	10,198.20	122,378.46

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B809	PUBLIC AFFAIRS&COMMNCT DIRCTOR					
		STEP A	55.5188	4,441.50	9,623.25	115,479.10
		STEP B	56.8894	4,551.15	9,860.82	118,329.95
		STEP C	58.2943	4,663.54	10,104.34	121,252.14
		STEP D	59.7339	4,778.71	10,353.87	124,246.51
		STEP E	61.2091	4,896.72	10,609.57	127,314.92
		STEP F	62.7207	5,017.65	10,871.58	130,459.05
		STEP G	64.2697	5,141.57	11,140.08	133,680.97
		STEP H	65.8569	5,268.55	11,415.19	136,982.35
		STEP I	67.4833	5,398.66	11,697.10	140,365.26
		STEP J	69.1499	5,531.99	11,985.98	143,831.79
		STEP K	70.8576	5,668.60	12,281.98	147,383.80
		STEP L	72.6075	5,808.60	12,585.30	151,023.60
		STEP M	74.4006	5,952.04	12,896.10	154,753.24
B810	PUBLIC INFORMATION OFFICER					
		STEP A	39.5842	3,166.73	6,861.26	82,335.13
		STEP B	40.5614	3,244.91	7,030.64	84,367.71
		STEP C	41.5631	3,325.04	7,204.27	86,451.24
		STEP D	42.5895	3,407.16	7,382.18	88,586.16
		STEP E	43.6413	3,491.30	7,564.49	90,773.90
		STEP F	44.7191	3,577.52	7,751.31	93,015.72
		STEP G	45.8235	3,665.88	7,942.74	95,312.88
		STEP H	46.9551	3,756.40	8,138.88	97,666.60
		STEP I	48.1147	3,849.17	8,339.88	100,078.57
		STEP J	49.3030	3,944.24	8,545.85	102,550.24
		STEP K	50.5206	4,041.64	8,756.90	105,082.84
		STEP L	51.7682	4,141.45	8,973.15	107,677.85
		STEP M	53.0467	4,243.73	9,194.76	110,337.13
B811	PUBLIC WORKS DIRECTOR					
		STEP A	60.9892	4,879.13	10,571.46	126,857.53
		STEP B	62.4949	4,999.59	10,832.44	129,989.39
		STEP C	64.0383	5,123.06	11,099.97	133,199.66
		STEP D	65.6198	5,249.58	11,374.09	136,489.18
		STEP E	67.2403	5,379.22	11,654.98	139,859.82
		STEP F	68.9009	5,512.07	11,942.82	143,313.87
		STEP G	70.6024	5,648.19	12,237.74	146,852.99
		STEP H	72.3460	5,787.68	12,539.97	150,479.68
		STEP I	74.1327	5,930.61	12,849.66	154,196.01
		STEP J	75.9635	6,077.08	13,167.00	158,004.08
		STEP K	77.8395	6,227.16	13,492.18	161,906.16
		STEP L	79.7618	6,380.94	13,825.37	165,904.54
		STEP M	81.7316	6,538.52	14,166.81	170,001.72

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B812	PURCHASING & WAREHOUSE MANAGER					
		STEP A	40.7316	3,258.52	7,060.14	84,721.72
		STEP B	41.7369	3,338.95	7,234.39	86,812.75
		STEP C	42.7676	3,421.40	7,413.05	88,956.60
		STEP D	43.8238	3,505.90	7,596.12	91,153.50
		STEP E	44.9061	3,592.48	7,783.72	93,404.68
		STEP F	46.0151	3,681.20	7,975.95	95,711.40
		STEP G	47.1515	3,772.12	8,172.92	98,075.12
		STEP H	48.3159	3,865.27	8,374.75	100,497.07
		STEP I	49.5091	3,960.72	8,581.57	102,978.92
		STEP J	50.7318	4,058.54	8,793.51	105,522.14
		STEP K	51.9847	4,158.77	9,010.68	108,128.17
		STEP L	53.2685	4,261.48	9,233.20	110,798.48
		STEP M	54.5840	4,366.72	9,461.22	113,534.72
B813	RECREATION MANAGER					
		STEP A	41.2998	3,303.98	7,158.63	85,903.58
		STEP B	42.3197	3,385.57	7,335.41	88,024.97
		STEP C	43.3649	3,469.19	7,516.58	90,198.99
		STEP D	44.4358	3,554.86	7,702.20	92,426.46
		STEP E	45.5332	3,642.65	7,892.42	94,709.05
		STEP F	46.6577	3,732.61	8,087.33	97,048.01
		STEP G	47.8099	3,824.79	8,287.04	99,444.59
		STEP H	48.9907	3,919.25	8,491.72	101,900.65
		STEP I	50.2005	4,016.04	8,701.42	104,417.04
		STEP J	51.4403	4,115.22	8,916.31	106,995.82
		STEP K	52.7106	4,216.84	9,136.50	109,638.04
		STEP L	54.0124	4,320.99	9,362.14	112,345.79
		STEP M	55.3463	4,427.70	9,593.35	115,120.30
B814	RECREATION SUPERINTENDENT					
		STEP A	35.8423	2,867.38	6,212.66	74,551.98
		STEP B	36.7275	2,938.20	6,366.10	76,393.20
		STEP C	37.6345	3,010.76	6,523.31	78,279.76
		STEP D	38.5639	3,085.11	6,684.40	80,212.91
		STEP E	39.5163	3,161.30	6,849.49	82,193.90
		STEP F	40.4922	3,239.37	7,018.64	84,223.77
		STEP G	41.4922	3,319.37	7,191.98	86,303.77
		STEP H	42.5169	3,401.35	7,369.59	88,435.15
		STEP I	43.5669	3,485.35	7,551.59	90,619.15
		STEP J	44.6428	3,571.42	7,738.08	92,857.02
		STEP K	45.7453	3,659.62	7,929.18	95,150.22
		STEP L	46.8750	3,750.00	8,125.00	97,500.00
		STEP M	48.0326	3,842.60	8,325.65	99,907.80

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B815	RECREATION SUPERVISOR					
		STEP A	31.2307	2,498.45	5,413.32	64,959.85
		STEP B	32.0020	2,560.16	5,547.01	66,564.16
		STEP C	32.7923	2,623.38	5,684.00	68,207.98
		STEP D	33.6022	2,688.17	5,824.38	69,892.57
		STEP E	34.4320	2,754.56	5,968.21	71,618.56
		STEP F	35.2823	2,822.58	6,115.59	73,387.18
		STEP G	36.1537	2,892.29	6,266.64	75,199.69
		STEP H	37.0465	2,963.72	6,421.39	77,056.72
		STEP I	37.9614	3,036.91	6,579.97	78,959.71
		STEP J	38.8989	3,111.91	6,742.47	80,909.71
		STEP K	39.8596	3,188.76	6,909.00	82,907.96
		STEP L	40.8439	3,267.51	7,079.60	84,955.31
		STEP M	41.8526	3,348.20	7,254.45	87,053.40
B816	REFUSE SUPERINTENDENT					
		STEP A	40.0712	3,205.69	6,945.67	83,348.09
		STEP B	41.0602	3,284.81	7,117.10	85,405.21
		STEP C	42.0743	3,365.94	7,292.87	87,514.54
		STEP D	43.1133	3,449.06	7,472.97	89,675.66
		STEP E	44.1781	3,534.24	7,657.53	91,890.44
		STEP F	45.2691	3,621.52	7,846.64	94,159.72
		STEP G	46.3871	3,710.96	8,040.43	96,485.16
		STEP H	47.5326	3,802.60	8,238.98	98,867.80
		STEP I	48.7065	3,896.52	8,442.46	101,309.52
		STEP J	49.9093	3,992.74	8,650.94	103,811.34
		STEP K	51.1419	4,091.35	8,864.59	106,375.15
		STEP L	52.4049	4,192.39	9,083.51	109,002.19
		STEP M	53.6991	4,295.92	9,307.84	111,694.12
B817	REFUSE SUPERVISOR					
		STEP A	33.7592	2,700.73	5,851.59	70,219.13
		STEP B	34.5920	2,767.36	5,995.94	71,951.36
		STEP C	35.4463	2,835.70	6,144.02	73,728.30
		STEP D	36.3217	2,905.73	6,295.76	75,549.13
		STEP E	37.2187	2,977.49	6,451.24	77,414.89
		STEP F	38.1379	3,051.03	6,610.56	79,326.83
		STEP G	39.0797	3,126.37	6,773.81	81,285.77
		STEP H	40.0448	3,203.58	6,941.09	83,293.18
		STEP I	41.0338	3,282.70	7,112.52	85,350.30
		STEP J	42.0471	3,363.76	7,288.16	87,457.96
		STEP K	43.0855	3,446.84	7,468.15	89,617.84
		STEP L	44.1496	3,531.96	7,652.59	91,831.16
		STEP M	45.2399	3,619.19	7,841.58	94,098.99

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B818	REFUSE UTILITY MANAGER					
		STEP A	50.8512	4,068.09	8,814.20	105,770.49
		STEP B	52.1063	4,168.50	9,031.75	108,381.10
		STEP C	53.3931	4,271.44	9,254.80	111,057.64
		STEP D	54.7117	4,376.93	9,483.36	113,800.33
		STEP E	56.0629	4,485.03	9,717.56	116,610.83
		STEP F	57.4474	4,595.79	9,957.54	119,490.59
		STEP G	58.8662	4,709.29	10,203.47	122,441.69
		STEP H	60.3199	4,825.59	10,455.44	125,465.39
		STEP I	61.8096	4,944.76	10,713.66	128,563.96
		STEP J	63.3360	5,066.88	10,978.24	131,738.88
		STEP K	64.9002	5,192.01	11,249.36	134,992.41
		STEP L	66.5029	5,320.23	11,527.16	138,326.03
		STEP M	68.1453	5,451.62	11,811.85	141,742.22
B819	RISK MANAGER					
		STEP A	44.2702	3,541.61	7,673.50	92,082.01
		STEP B	45.3630	3,629.04	7,862.92	94,355.04
		STEP C	46.4833	3,718.66	8,057.10	96,685.26
		STEP D	47.6312	3,810.49	8,256.07	99,072.89
		STEP E	48.8075	3,904.60	8,459.96	101,519.60
		STEP F	50.0129	4,001.03	8,668.90	104,026.83
		STEP G	51.2480	4,099.84	8,882.98	106,595.84
		STEP H	52.5136	4,201.08	9,102.35	109,228.28
		STEP I	53.8105	4,304.84	9,327.15	111,925.84
		STEP J	55.1394	4,411.15	9,557.49	114,689.95
		STEP K	56.5011	4,520.08	9,793.52	117,522.28
		STEP L	57.8965	4,631.72	10,035.39	120,424.72
		STEP M	59.3263	4,746.10	10,283.22	123,398.70
B820	SAFETY COORDINATOR					
		STEP A	36.5871	2,926.96	6,341.76	76,101.16
		STEP B	37.4902	2,999.21	6,498.30	77,979.61
		STEP C	38.4160	3,073.28	6,658.77	79,905.28
		STEP D	39.3647	3,149.17	6,823.21	81,878.57
		STEP E	40.3369	3,226.95	6,991.72	83,900.75
		STEP F	41.3331	3,306.64	7,164.40	85,972.84
		STEP G	42.3538	3,388.30	7,341.32	88,095.90
		STEP H	43.3998	3,471.98	7,522.63	90,271.58
		STEP I	44.4716	3,557.72	7,708.41	92,500.92
		STEP J	45.5699	3,645.59	7,898.78	94,785.39
		STEP K	46.6952	3,735.61	8,093.83	97,126.01
		STEP L	47.8484	3,827.87	8,293.72	99,524.67
		STEP M	49.0301	3,922.40	8,498.55	101,982.60

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B821	SR BUSINESS SYSTEMS ANALYST					
		STEP A	34.7663	2,781.30	6,026.15	72,313.90
		STEP B	35.6244	2,849.95	6,174.89	74,098.75
		STEP C	36.5042	2,920.33	6,327.39	75,928.73
		STEP D	37.4057	2,992.45	6,483.65	77,803.85
		STEP E	38.3294	3,066.35	6,643.76	79,725.15
		STEP F	39.2760	3,142.08	6,807.84	81,694.08
		STEP G	40.2460	3,219.68	6,975.97	83,711.68
		STEP H	41.2399	3,299.19	7,148.24	85,778.99
		STEP I	42.2584	3,380.67	7,324.78	87,897.47
		STEP J	43.3020	3,464.16	7,505.68	90,068.16
		STEP K	44.3713	3,549.70	7,691.02	92,292.30
		STEP L	45.4671	3,637.36	7,880.96	94,571.56
		STEP M	46.5900	3,727.20	8,075.60	96,907.20
B822	SR DATABASE ANALYST					
		STEP A	35.3507	2,828.05	6,127.45	73,529.45
		STEP B	36.2237	2,897.89	6,278.77	75,345.29
		STEP C	37.1183	2,969.46	6,433.83	77,206.06
		STEP D	38.0350	3,042.80	6,592.73	79,112.80
		STEP E	38.9743	3,117.94	6,755.54	81,066.54
		STEP F	39.9368	3,194.94	6,922.37	83,068.54
		STEP G	40.9231	3,273.84	7,093.33	85,120.04
		STEP H	41.9337	3,354.69	7,268.50	87,222.09
		STEP I	42.9693	3,437.54	7,448.01	89,376.14
		STEP J	44.0305	3,522.44	7,631.95	91,583.44
		STEP K	45.1179	3,609.43	7,820.43	93,845.23
		STEP L	46.2321	3,698.56	8,013.56	96,162.76
		STEP M	47.3738	3,789.90	8,211.45	98,537.50
B823	SR DEPUTY CITY ATTORNEY					
		STEP A	59.7687	4,781.49	10,359.90	124,318.89
		STEP B	61.2441	4,899.52	10,615.64	127,387.72
		STEP C	62.7566	5,020.52	10,877.81	130,533.72
		STEP D	64.3064	5,144.51	11,146.44	133,757.31
		STEP E	65.8945	5,271.56	11,421.71	137,060.56
		STEP F	67.5219	5,401.75	11,703.79	140,445.55
		STEP G	69.1894	5,535.15	11,992.82	143,913.95
		STEP H	70.8981	5,671.84	12,289.00	147,468.04
		STEP I	72.6490	5,811.92	12,592.49	151,109.92
		STEP J	74.4431	5,955.44	12,903.47	154,841.64
		STEP K	76.2816	6,102.52	13,222.14	158,665.72
		STEP L	78.1654	6,253.23	13,548.66	162,584.03
		STEP M	80.0958	6,407.66	13,883.27	166,599.26

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B824	SR ELECTRIC BUSINESS ANALYST					
		STEP A	47.5668	3,805.34	8,244.91	98,938.94
		STEP B	48.7411	3,899.28	8,448.45	101,381.48
		STEP C	49.9448	3,995.58	8,657.09	103,885.18
		STEP D	51.1782	4,094.25	8,870.88	106,450.65
		STEP E	52.4421	4,195.36	9,089.96	109,079.56
		STEP F	53.7372	4,298.97	9,314.44	111,773.37
		STEP G	55.0643	4,405.14	9,544.47	114,533.74
		STEP H	56.4242	4,513.93	9,780.19	117,362.33
		STEP I	57.8177	4,625.41	10,021.73	120,260.81
		STEP J	59.2455	4,739.64	10,269.22	123,230.64
		STEP K	60.7087	4,856.69	10,522.84	126,274.09
		STEP L	62.2079	4,976.63	10,782.70	129,392.43
		STEP M	63.7442	5,099.53	11,048.99	132,587.93
B825	SR ENERGY SERVICES ACCOUNT REP					
		STEP A	47.6233	3,809.86	8,254.70	99,056.46
		STEP B	48.7987	3,903.89	8,458.44	101,501.29
		STEP C	50.0039	4,000.31	8,667.34	104,008.11
		STEP D	51.2388	4,099.10	8,881.39	106,576.70
		STEP E	52.5042	4,200.33	9,100.72	109,208.73
		STEP F	53.8008	4,304.06	9,325.47	111,905.66
		STEP G	55.1295	4,410.36	9,555.78	114,669.36
		STEP H	56.4909	4,519.27	9,791.75	117,501.07
		STEP I	57.8860	4,630.88	10,033.57	120,402.88
		STEP J	59.3156	4,745.24	10,281.37	123,376.44
		STEP K	60.7805	4,862.44	10,535.28	126,423.44
		STEP L	62.2815	4,982.52	10,795.46	129,545.52
		STEP M	63.8196	5,105.56	11,062.06	132,744.76
B826	SR ENGINEER					
		STEP A	42.7247	3,417.97	7,405.61	88,867.37
		STEP B	43.7794	3,502.35	7,588.42	91,061.15
		STEP C	44.8605	3,588.84	7,775.82	93,309.84
		STEP D	45.9684	3,677.47	7,967.85	95,614.27
		STEP E	47.1037	3,768.29	8,164.64	97,975.69
		STEP F	48.2669	3,861.35	8,366.26	100,395.15
		STEP G	49.4589	3,956.71	8,572.87	102,874.51
		STEP H	50.6804	4,054.43	8,784.60	105,415.23
		STEP I	51.9320	4,154.56	9,001.54	108,018.56
		STEP J	53.2145	4,257.16	9,223.84	110,686.16
		STEP K	54.5287	4,362.29	9,451.64	113,419.69
		STEP L	55.8753	4,470.02	9,685.05	116,220.62
		STEP M	57.2552	4,580.41	9,924.23	119,090.81

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B827	SR HUMAN RESOURCES ANALYST					
		STEP A	38.4165	3,073.32	6,658.86	79,906.32
		STEP B	39.3646	3,149.16	6,823.19	81,878.36
		STEP C	40.3367	3,226.93	6,991.69	83,900.33
		STEP D	41.3329	3,306.63	7,164.36	85,972.43
		STEP E	42.3537	3,388.29	7,341.30	88,095.69
		STEP F	43.3996	3,471.96	7,522.59	90,271.16
		STEP G	44.4714	3,557.71	7,708.37	92,500.51
		STEP H	45.5697	3,645.57	7,898.74	94,784.97
		STEP I	46.6951	3,735.60	8,093.81	97,125.80
		STEP J	47.8483	3,827.86	8,293.70	99,524.46
		STEP K	49.0299	3,922.39	8,498.51	101,982.19
		STEP L	50.2408	4,019.26	8,708.40	104,500.86
		STEP M	51.4815	4,118.52	8,923.46	107,081.52
B828	SR IT ANALYST					
		STEP A	34.8115	2,784.92	6,033.99	72,407.92
		STEP B	35.6707	2,853.65	6,182.92	74,195.05
		STEP C	36.5516	2,924.12	6,335.61	76,027.32
		STEP D	37.4543	2,996.34	6,492.07	77,904.94
		STEP E	38.3793	3,070.34	6,652.41	79,828.94
		STEP F	39.3271	3,146.16	6,816.69	81,800.36
		STEP G	40.2983	3,223.86	6,985.03	83,820.46
		STEP H	41.2935	3,303.48	7,157.54	85,890.48
		STEP I	42.3133	3,385.06	7,334.30	88,011.66
		STEP J	43.3583	3,468.66	7,515.43	90,185.26
		STEP K	44.4291	3,554.32	7,701.04	92,412.52
		STEP L	45.5263	3,642.10	7,891.22	94,694.70
		STEP M	46.6506	3,732.04	8,086.10	97,033.24
B829	SR PLANNER					
		STEP A	40.3307	3,226.45	6,990.65	83,887.85
		STEP B	41.3263	3,306.10	7,163.22	85,958.70
		STEP C	42.3469	3,387.75	7,340.12	88,081.55
		STEP D	43.3927	3,471.41	7,521.40	90,256.81
		STEP E	44.4643	3,557.14	7,707.14	92,485.74
		STEP F	45.5624	3,644.99	7,897.48	94,769.79
		STEP G	46.6876	3,735.00	8,092.51	97,110.20
		STEP H	47.8406	3,827.24	8,292.37	99,508.44
		STEP I	49.0220	3,921.76	8,497.14	101,965.76
		STEP J	50.2327	4,018.61	8,707.00	104,484.01
		STEP K	51.4732	4,117.85	8,922.02	107,064.25
		STEP L	52.7444	4,219.55	9,142.36	109,708.35
		STEP M	54.0470	4,323.76	9,368.14	112,417.76

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B830	SR POWER ENGINEER					
		STEP A	59.8134	4,785.07	10,367.65	124,411.87
		STEP B	61.2900	4,903.20	10,623.60	127,483.20
		STEP C	62.8036	5,024.28	10,885.95	130,631.48
		STEP D	64.3546	5,148.36	11,154.79	133,857.56
		STEP E	65.9439	5,275.51	11,430.27	137,163.31
		STEP F	67.5725	5,405.80	11,712.56	140,550.80
		STEP G	69.2412	5,539.29	12,001.80	144,021.69
		STEP H	70.9512	5,676.09	12,298.20	147,578.49
		STEP I	72.7034	5,816.27	12,601.92	151,223.07
		STEP J	74.4989	5,959.91	12,913.14	154,957.71
		STEP K	76.3387	6,107.09	13,232.04	158,784.49
		STEP L	78.2240	6,257.92	13,558.82	162,705.92
		STEP M	80.1558	6,412.46	13,893.67	166,724.06
B831	SR POWER PLANT ENGINEER					
		STEP A	59.8134	4,785.07	10,367.65	124,411.87
		STEP B	61.2900	4,903.20	10,623.60	127,483.20
		STEP C	62.8036	5,024.28	10,885.95	130,631.48
		STEP D	64.3546	5,148.36	11,154.79	133,857.56
		STEP E	65.9439	5,275.51	11,430.27	137,163.31
		STEP F	67.5725	5,405.80	11,712.56	140,550.80
		STEP G	69.2412	5,539.29	12,001.80	144,021.69
		STEP H	70.9512	5,676.09	12,298.20	147,578.49
		STEP I	72.7034	5,816.27	12,601.92	151,223.07
		STEP J	74.4989	5,959.91	12,913.14	154,957.71
		STEP K	76.3387	6,107.09	13,232.04	158,784.49
		STEP L	78.2240	6,257.92	13,558.82	162,705.92
		STEP M	80.1558	6,412.46	13,893.67	166,724.06
B833	STREET MAINT SUPERINTENDENT					
		STEP A	42.7162	3,417.29	7,404.14	88,849.69
		STEP B	43.7704	3,501.63	7,586.86	91,042.43
		STEP C	44.8514	3,588.11	7,774.24	93,290.91
		STEP D	45.9590	3,676.72	7,966.22	95,594.72
		STEP E	47.0940	3,767.52	8,162.96	97,955.52
		STEP F	48.2571	3,860.56	8,364.56	100,374.76
		STEP G	49.4488	3,955.90	8,571.12	102,853.50
		STEP H	50.6700	4,053.60	8,782.80	105,393.60
		STEP I	51.9214	4,153.71	8,999.70	107,996.51
		STEP J	53.2036	4,256.28	9,221.95	110,663.48
		STEP K	54.5175	4,361.40	9,449.70	113,396.40
		STEP L	55.8639	4,469.11	9,683.07	116,196.91
		STEP M	57.2435	4,579.48	9,922.20	119,066.48

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B832	STREET MAINT SUPERVISOR					
		STEP A	32.5213	2,601.70	5,637.02	67,644.30
		STEP B	33.3240	2,665.92	5,776.16	69,313.92
		STEP C	34.1470	2,731.76	5,918.81	71,025.76
		STEP D	34.9903	2,799.22	6,064.98	72,779.82
		STEP E	35.8544	2,868.35	6,214.76	74,577.15
		STEP F	36.7399	2,939.19	6,368.24	76,418.99
		STEP G	37.6472	3,011.77	6,525.51	78,306.17
		STEP H	38.5770	3,086.16	6,686.68	80,240.16
		STEP I	39.5297	3,162.37	6,851.81	82,221.77
		STEP J	40.5059	3,240.47	7,021.02	84,252.27
		STEP K	41.5062	3,320.49	7,194.40	86,332.89
		STEP L	42.5312	3,402.49	7,372.07	88,464.89
		STEP M	43.5816	3,486.52	7,554.14	90,649.72
B834	URBAN FORESTER					
		STEP A	34.8445	2,787.56	6,039.71	72,476.56
		STEP B	35.7046	2,856.36	6,188.79	74,265.56
		STEP C	36.5863	2,926.90	6,341.62	76,099.50
		STEP D	37.4899	2,999.19	6,498.24	77,978.99
		STEP E	38.4157	3,073.25	6,658.72	79,904.65
		STEP F	39.3644	3,149.15	6,823.16	81,877.95
		STEP G	40.3366	3,226.92	6,991.67	83,900.12
		STEP H	41.3327	3,306.61	7,164.33	85,972.01
		STEP I	42.3535	3,388.28	7,341.27	88,095.28
		STEP J	43.3995	3,471.96	7,522.58	90,270.96
		STEP K	44.4713	3,557.70	7,708.35	92,500.30
		STEP L	45.5695	3,645.56	7,898.71	94,784.56
		STEP M	46.6949	3,735.59	8,093.78	97,125.39
B835	WATER CONSERVATION ADMINSTR					
		STEP A	38.4381	3,075.04	6,662.60	79,951.24
		STEP B	39.3871	3,150.96	6,827.09	81,925.16
		STEP C	40.3598	3,228.78	6,995.69	83,948.38
		STEP D	41.3565	3,308.52	7,168.46	86,021.52
		STEP E	42.3778	3,390.22	7,345.48	88,145.82
		STEP F	43.4244	3,473.95	7,526.89	90,322.75
		STEP G	44.4968	3,559.74	7,712.77	92,553.34
		STEP H	45.5957	3,647.65	7,903.25	94,839.05
		STEP I	46.7217	3,737.73	8,098.42	97,181.13
		STEP J	47.8756	3,830.04	8,298.43	99,581.24
		STEP K	49.0579	3,924.63	8,503.36	102,040.43
		STEP L	50.2694	4,021.55	8,713.36	104,560.35
		STEP M	51.5109	4,120.87	8,928.55	107,142.67

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B836	WATER DISTRIBUTION SUPERVISOR					
		STEP A	34.8445	2,787.56	6,039.71	72,476.56
		STEP B	35.7046	2,856.36	6,188.79	74,265.56
		STEP C	36.5863	2,926.90	6,341.62	76,099.50
		STEP D	37.4899	2,999.19	6,498.24	77,978.99
		STEP E	38.4157	3,073.25	6,658.72	79,904.65
		STEP F	39.3644	3,149.15	6,823.16	81,877.95
		STEP G	40.3366	3,226.92	6,991.67	83,900.12
		STEP H	41.3327	3,306.61	7,164.33	85,972.01
		STEP I	42.3535	3,388.28	7,341.27	88,095.28
		STEP J	43.3995	3,471.96	7,522.58	90,270.96
		STEP K	44.4713	3,557.70	7,708.35	92,500.30
		STEP L	45.5695	3,645.56	7,898.71	94,784.56
		STEP M	46.6949	3,735.59	8,093.78	97,125.39
B837	WATER QUALITY LAB SUPERVISOR					
		STEP A	36.5854	2,926.83	6,341.46	76,097.63
		STEP B	37.4883	2,999.06	6,497.97	77,975.66
		STEP C	38.4141	3,073.12	6,658.44	79,901.32
		STEP D	39.3628	3,149.02	6,822.88	81,874.62
		STEP E	40.3349	3,226.79	6,991.38	83,896.59
		STEP F	41.3310	3,306.48	7,164.04	85,968.48
		STEP G	42.3517	3,388.13	7,340.96	88,091.53
		STEP H	43.3977	3,471.81	7,522.26	90,267.21
		STEP I	44.4694	3,557.55	7,708.02	92,496.35
		STEP J	45.5676	3,645.40	7,898.38	94,780.60
		STEP K	46.6930	3,735.44	8,093.45	97,121.44
		STEP L	47.8461	3,827.68	8,293.32	99,519.88
		STEP M	49.0277	3,922.21	8,498.13	101,977.61
B838	WATER TRMT PLT CHIEF OPERATOR					
		STEP A	41.8116	3,344.92	7,247.34	86,968.12
		STEP B	42.8437	3,427.49	7,426.24	89,114.89
		STEP C	43.9018	3,512.14	7,609.64	91,315.74
		STEP D	44.9859	3,598.87	7,797.55	93,570.67
		STEP E	46.0969	3,687.75	7,990.12	95,881.55
		STEP F	47.2353	3,778.82	8,187.45	98,249.42
		STEP G	48.4019	3,872.15	8,389.66	100,675.95
		STEP H	49.5972	3,967.77	8,596.84	103,162.17
		STEP I	50.8220	4,065.76	8,809.14	105,709.76
		STEP J	52.0771	4,166.16	9,026.69	108,320.36
		STEP K	53.3632	4,269.05	9,249.62	110,995.45
		STEP L	54.6811	4,374.48	9,478.05	113,736.68
		STEP M	56.0315	4,482.52	9,712.12	116,545.52

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B839	WATER UTILITY MANAGER					
		STEP A	56.5013	4,520.10	9,793.55	117,522.70
		STEP B	57.8958	4,631.66	10,035.27	120,423.26
		STEP C	59.3256	4,746.04	10,283.10	123,397.24
		STEP D	60.7907	4,863.25	10,537.05	126,444.65
		STEP E	62.2920	4,983.36	10,797.28	129,567.36
		STEP F	63.8304	5,106.43	11,063.93	132,767.23
		STEP G	65.4068	5,232.54	11,337.17	136,046.14
		STEP H	67.0220	5,361.76	11,617.14	139,405.76
		STEP I	68.6772	5,494.17	11,904.04	142,848.57
		STEP J	70.3733	5,629.86	12,198.03	146,376.46
		STEP K	72.1112	5,768.89	12,499.27	149,991.29
		STEP L	73.8921	5,911.36	12,807.96	153,695.56
		STEP M	75.7169	6,057.35	13,124.26	157,491.15
B840	WSTWTR COLLECTION SUPT					
		STEP A	42.7094	3,416.75	7,402.96	88,835.55
		STEP B	43.7636	3,501.08	7,585.69	91,028.28
		STEP C	44.8444	3,587.55	7,773.02	93,276.35
		STEP D	45.9519	3,676.15	7,965.00	95,579.95
		STEP E	47.0867	3,766.93	8,161.69	97,940.33
		STEP F	48.2496	3,859.96	8,363.26	100,359.16
		STEP G	49.4411	3,955.28	8,569.79	102,837.48
		STEP H	50.6621	4,052.96	8,781.43	105,377.16
		STEP I	51.9133	4,153.06	8,998.30	107,979.66
		STEP J	53.1953	4,255.62	9,220.51	110,646.22
		STEP K	54.5090	4,360.72	9,448.22	113,378.72
		STEP L	55.8552	4,468.41	9,681.56	116,178.81
		STEP M	57.2346	4,578.76	9,920.66	119,047.96
B841	WSTWTR COLLECTION SUPV					
		STEP A	34.8446	2,787.56	6,039.73	72,476.76
		STEP B	35.7046	2,856.36	6,188.79	74,265.56
		STEP C	36.5863	2,926.90	6,341.62	76,099.50
		STEP D	37.4899	2,999.19	6,498.24	77,978.99
		STEP E	38.4157	3,073.25	6,658.72	79,904.65
		STEP F	39.3644	3,149.15	6,823.16	81,877.95
		STEP G	40.3366	3,226.92	6,991.67	83,900.12
		STEP H	41.3327	3,306.61	7,164.33	85,972.01
		STEP I	42.3535	3,388.28	7,341.27	88,095.28
		STEP J	43.3995	3,471.96	7,522.58	90,270.96
		STEP K	44.4713	3,557.70	7,708.35	92,500.30
		STEP L	45.5695	3,645.56	7,898.71	94,784.56
		STEP M	46.6949	3,735.59	8,093.78	97,125.39

CITY OF ROSEVILLE

SALARY SCHEDULE - B

Appendix: B
Percentage:1.000

Effective Date: 03/05/2016

MGTB MANAGEMENT-B

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
B842	WSTWTR TRMT PLT CHIEF OPERATOR					
		STEP A	45.9993	3,679.94	7,973.21	95,678.54
		STEP B	47.1280	3,770.24	8,168.85	98,026.24
		STEP C	48.2919	3,863.35	8,370.59	100,447.15
		STEP D	49.4845	3,958.76	8,577.31	102,927.76
		STEP E	50.7066	4,056.52	8,789.14	105,469.72
		STEP F	51.9588	4,156.70	9,006.19	108,074.30
		STEP G	53.2420	4,259.36	9,228.61	110,743.36
		STEP H	54.5569	4,364.55	9,456.52	113,478.35
		STEP I	55.9042	4,472.33	9,690.06	116,280.73
		STEP J	57.2848	4,582.78	9,929.36	119,152.38
		STEP K	58.6995	4,695.96	10,174.58	122,094.96
		STEP L	60.1492	4,811.93	10,425.86	125,110.33
		STEP M	61.6346	4,930.76	10,683.33	128,199.96
B843	WSTWTR UTILITY MANAGER					
		STEP A	56.5013	4,520.10	9,793.55	117,522.70
		STEP B	57.8958	4,631.66	10,035.27	120,423.26
		STEP C	59.3256	4,746.04	10,283.10	123,397.24
		STEP D	60.7907	4,863.25	10,537.05	126,444.65
		STEP E	62.2920	4,983.36	10,797.28	129,567.36
		STEP F	63.8304	5,106.43	11,063.93	132,767.23
		STEP G	65.4068	5,232.54	11,337.17	136,046.14
		STEP H	67.0220	5,361.76	11,617.14	139,405.76
		STEP I	68.6772	5,494.17	11,904.04	142,848.57
		STEP J	70.3733	5,629.86	12,198.03	146,376.46
		STEP K	72.1112	5,768.89	12,499.27	149,991.29
		STEP L	73.8921	5,911.36	12,807.96	153,695.56
		STEP M	75.7169	6,057.35	13,124.26	157,491.15

ORDINANCE NO. 5644

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING
ORDINANCE NO. 5614, THE SALARY ORDINANCE FOR CITY COUNCIL APPOINTED
POSITIONS, AS AMENDED BY APPENDIX "B" TO BE EFFECTIVE
MARCH 5, 2016, AS AN URGENCY MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Title and Purpose.

Ordinance No. 5614, the Salary Ordinance for City Council Appointed Positions, is hereby amended as shown on Appendix "B" attached hereto and which shall operate retroactively as of January 9, 2016.

SECTION 2. Salary Plan Effective Date.

This Ordinance shall be effective March 5, 2016 as an urgency measure.

SECTION 3. Urgency Ordinance.

This ordinance is hereby declared to be an urgency measure, immediately necessary for the public peace, health and safety and shall take effect March 5, 2016. A statement of urgency is as follows:

It is necessary to amend the Salary Ordinance to comply with recently approved changes for the orderly and necessary continuance of operations of the City.

SECTION 4. Posting.

The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the Ordinance Book under the record of the ordinance a certificate under her hand stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

CITY OF ROSEVILLE
SALARY SCHEDULE

Effective Date: 01/09/2016

CCAP CITY COUNCIL APPOINTED POS

Job Code	Title	Step	Hourly	Bi-weekly	Monthly	Annual
1235	ACTING CITY MANAGER	STEP A	120.14430	9,611.54	20,825.01	249,900.14
1200	CITY ATTORNEY	STEP A	115.73080	9,258.46	20,060.00	240,720.06
1240	CITY MANAGER	STEP A	127.02560	10,162.04	22,017.77	264,213.24

Position Allocation/Staffing Report
by Department and Location ("Division")

1.0	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
Department: 20 CITY ATTORNEY				
Div/Loc: 02000 - CITY ATTORNEY				
020000245	ASSISTANT CITY ATTORNEY	1.000	1.000	
020001200	CITY ATTORNEY	1.000	1.000	
020001655	DEPUTY CITY ATTORNEY I	0.000	1.000	(1.000)
020001658	DEPUTY CITY ATTORNEY II	2.000	2.000	
020004094	LEGAL CLERK I (C)	0.000	0.750	(.750)
020004096	LEGAL CLERK II (C)	2.000	1.000	1.000
020005015	PARALEGAL (C)	1.000	1.000	
020007123	SR DEPUTY CITY ATTORNEY	2.000	1.000	1.000
TOTAL FOR LOC/DIV 02000 - CITY ATTORNEY:		9.000	8.750	.250
TOTAL FOR DEPARTMENT 20 - CITY ATTORNEY:		9.000	8.750	.250
Department: 30 CITY MANAGER				
Div/Loc: 01500 - CITY MANAGER - ADMINISTRATION				
015001245	CHIEF FINANCIAL OFFICER	1.000	1.000	
015001240	CITY MANAGER	1.000	1.000	
015002550	EXECUTIVE ASST TO THE CITY MGR	1.000	1.000	
015004457	MANAGEMENT ASSISTANT II	2.000	2.000	
TOTAL FOR LOC/DIV 01500 - CITY MANAGER - ADMINISTRATION:		5.000	5.000	
Div/Loc: 01520 - PUBLIC AFFAIRS & COMMUNICATION				
015203451	GOVERNMENT RELATIONS ADMISTRAT	1.000	1.000	
015205615	PUB AFFAIRS&COMMUNICATN ADMNST	1.000	1.000	
015205610	PUBLIC AFFAIRS-COMMUNIC DIRECT	1.000	1.000	
015205565	PUBLIC INFORMATION OFFICER	1.000	1.000	
TOTAL FOR LOC/DIV 01520 - PUBLIC AFFAIRS & COMMUNICATION:		4.000	4.000	
Div/Loc: 08100 - DEVELOPMENT AND OPS-ADMIN				
081000325	ASSISTANT CITY MANAGER	1.000	1.000	
081002540	ENVIRONMENTAL COORDINATOR	1.000	1.000	
081004457	MANAGEMENT ASSISTANT II	1.000	1.000	
TOTAL FOR LOC/DIV 08100 - DEVELOPMENT AND OPS-ADMIN:		3.000	3.000	
TOTAL FOR DEPARTMENT 30 - CITY MANAGER:		12.000	12.000	
Department: 31 ECONOMIC DEVELOPMENT				
Div/Loc: 08110 - HOUSING ADMIN				
081103318	FINANCIAL ANALYST II	1.000	1.000	
081103402	HOUSING ANALYST II	3.000	0.000	3.000
081103590	HOUSING SUPERVISOR	1.000	1.000	
081103592	HOUSING TECHNICIAN II	3.000	2.900	.100
081104957	OFFICE ASSISTANT II	1.000	0.000	1.000
081107148	SR HOUSING TECHNICIAN	1.000	1.000	
081103401	HOUSING ANALYST I	0.000	2.000	(2.000)
TOTAL FOR LOC/DIV 08110 - HOUSING ADMIN:		10.000	7.900	2.100
Div/Loc: 08123 - ECONOMIC DEVELOPMENT				
081231675	DEVELOPMENT ANALYST II	1.000	1.000	
081231710	ECONOMIC DEVELOPMENT DIRECTOR	1.000	1.000	
081231712	ECONOMIC DEVELOPMENT MANAGER	1.000	1.000	
TOTAL FOR LOC/DIV 08123 - ECONOMIC DEVELOPMENT:		3.000	3.000	
Page:			1	Date: 03/05/2016
Report: HR_ALLOC_STAFF_DEPT_LOC_ROSEV - HR: Allocation by Department, DivLoc - No Names			Time: 10:17:50	

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
TOTAL FOR DEPARTMENT 31 - ECONOMIC DEVELOPMENT:		13.000	10.900	2.100
Department: 41 FINANCE				
Div/Loc: 05000 - FINANCE ADMINISTRATION				
050000050	ADMIN ANALYST II	1.000	1.000	
050000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
050003301	FINANCE DIRECTOR	1.000	1.000	
TOTAL FOR LOC/DIV 05000 - FINANCE ADMINISTRATION:		3.000	3.000	
Div/Loc: 05010 - BUDGET				
050100915	BUDGET ANALYST II	2.750	2.500	.250
050100930	BUDGET MANAGER	1.000	1.000	
TOTAL FOR LOC/DIV 05010 - BUDGET:		3.750	3.500	.250
Div/Loc: 05011 - PAYROLL				
050112900	FINANCE MANAGER	1.000	1.000	
050115103	PAYROLL CLERK II (C)	0.500	0.500	
050115101	PAYROLL TECHNICIAN II	2.000	2.000	
050117141	SR PAYROLL TECHNICIAN	1.000	1.000	
TOTAL FOR LOC/DIV 05011 - PAYROLL:		4.500	4.500	
Div/Loc: 05012 - ACCOUNTS PAYABLE				
050123335	FINANCE CLERK II	2.000	2.000	
050124957	OFFICE ASSISTANT II	0.625	0.625	
050127146	SR FINANCE CLERK	1.000	1.000	
050127147	SR FINANCE TECHNICIAN	1.000	1.000	
TOTAL FOR LOC/DIV 05012 - ACCOUNTS PAYABLE:		4.625	4.625	
Div/Loc: 05030 - CASH MANAGEMENT				
050303335	FINANCE CLERK II	0.500	0.500	
050303326	FINANCE TECHNICIAN II	1.000	1.000	
050303318	FINANCIAL ANALYST II	1.000	1.000	
TOTAL FOR LOC/DIV 05030 - CASH MANAGEMENT:		2.500	2.500	
Div/Loc: 05040 - UTIL BILLING & SERV - ADMIN				
050400920	BILLING SERVICES MANAGER	1.000	1.000	
TOTAL FOR LOC/DIV 05040 - UTIL BILLING & SERV - ADMIN:		1.000	1.000	
Div/Loc: 05041 - UTIL BILLING & SRV-FIELD SRV				
050414540	METER READER	4.500	4.500	
050414534	METER SERVICE WORKER	2.000	1.000	1.000
050414546	METER SERVICES SUPERVISOR	1.000	1.000	
050417200	SR METER SERVICE WORKER	1.000	1.000	
TOTAL FOR LOC/DIV 05041 - UTIL BILLING & SRV-FIELD SRV:		8.500	7.500	1.000
Div/Loc: 05042 - UTIL BILLING & SRV - BILLING				
050423326	FINANCE TECHNICIAN II	4.000	4.000	
050427147	SR FINANCE TECHNICIAN	2.000	2.000	
TOTAL FOR LOC/DIV 05042 - UTIL BILLING & SRV - BILLING:		6.000	6.000	
Div/Loc: 05043 - UTIL BILLING & SRV-SERVICES				
050433335	FINANCE CLERK II	11.750	10.250	1.500
050433310	FINANCE SUPERVISOR	1.000	1.000	
050433326	FINANCE TECHNICIAN II	1.000	1.000	
050437146	SR FINANCE CLERK	1.000	0.000	1.000

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
050433334	FINANCE CLERK I	0.000	2.500	(2.500)
TOTAL FOR LOC/DIV 05043 - UTIL BILLING & SRV-SERVICES:		14.750	14.750	
Div/Loc: 05050 - GEN ACCT - ADMINISTRATION				
050500040	ACCOUNTANT II	1.000	1.000	
050500041	ACCOUNTING MANAGER	1.000	1.000	
050500043	ACCOUNTING SUPERVISOR	1.000	1.000	
TOTAL FOR LOC/DIV 05050 - GEN ACCT - ADMINISTRATION:		3.000	3.000	
Div/Loc: 05053 - GEN ACCT - ACCOUNTING				
050533326	FINANCE TECHNICIAN II	1.000	0.000	1.000
050533318	FINANCIAL ANALYST II	2.000	1.000	1.000
TOTAL FOR LOC/DIV 05053 - GEN ACCT - ACCOUNTING:		3.000	1.000	2.000
TOTAL FOR DEPARTMENT 41 - FINANCE:		54.625	51.375	3.250
Department: 42 HUMAN RESOURCES				
Div/Loc: 03100 - HUMAN RESOURCES				
031000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
031003596	HUMAN RESOURCES ANALYST II	1.000	0.000	1.000
031003598	HUMAN RESOURCES DIRECTOR	1.000	1.000	
031003599	HUMAN RESOURCES MANAGER	1.000	1.000	
031005235	HUMAN RESOURCES TECH (C)	6.000	4.000	2.000
031007150	SR HUMAN RESOURCES ANALYST	1.000	1.000	
03100B102	HUMAN RESOURCES TECH (C)	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 03100 - HUMAN RESOURCES:		11.000	9.000	2.000
Div/Loc: 03110 - RISK MGMT - ADMINISTRATION				
031103620	INSURANCE & CONTRACT TECH	1.000	1.000	
031106450	RISK MANAGER	1.000	1.000	
031107178	SR HUMAN RESOURCES TECH (C)	1.000	1.000	
031105235	HUMAN RESOURCES TECH (C)	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 03110 - RISK MGMT - ADMINISTRATION:		3.000	4.000	(1.000)
TOTAL FOR DEPARTMENT 42 - HUMAN RESOURCES:		14.000	13.000	1.000
Department: 43 INFORMATION TECHNOLOGY				
Div/Loc: 03120 - IT-STRAT PLNNG&DIGITAL COMMUN				
031201362	BUSINESS SYSTEMS ANALYST II	1.000	1.000	
031201180	CHIEF INFORMATION OFFICER	1.000	1.000	
031203625	INFO SECURITY ADMINISTRATOR	1.000	1.000	
031203616	IT PLANNING & POLICY TECH	1.000	0.000	1.000
031203602	IT PROGRAM MANAGER	1.000	1.000	
031207130	SR BUSINESS SYSTEMS ANALYST	1.625	1.625	
TOTAL FOR LOC/DIV 03120 - IT-STRAT PLNNG&DIGITAL COMMUN:		6.625	5.625	1.000
Div/Loc: 03121 - IT-DATABASE & CLOUD SOLUTION				
031213794	IT ANALYST II	1.000	1.000	
031213601	IT DIVISION MANAGER	1.000	1.000	
031217145	SR DATABASE ANALYST	1.000	1.000	
031213602	IT PROGRAM MANAGER	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 03121 - IT-DATABASE & CLOUD SOLUTION:		3.000	4.000	(1.000)
Div/Loc: 03122 - IT-NETWORK & INFRASTRUCTURE				

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
031223794	IT ANALYST II	6.000	5.000	1.000
031223602	IT PROGRAM MANAGER	1.000	0.000	1.000
031227149	SR IT TECHNICIAN	1.000	1.000	
031223793	IT ANALYST I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 03122 - IT-NETWORK & INFRASTRUCTURE:		8.000	7.000	1.000
Div/Loc: 03123 - IT-BUSINESS & CLOUD SOLUTIONS				
031231362	BUSINESS SYSTEMS ANALYST II	5.000	5.000	
031233602	IT PROGRAM MANAGER	1.000	1.000	
TOTAL FOR LOC/DIV 03123 - IT-BUSINESS & CLOUD SOLUTIONS:		6.000	6.000	
Div/Loc: 03124 - IT-GIS & ANALYTICS				
031243794	IT ANALYST II	2.000	2.000	
031243602	IT PROGRAM MANAGER	1.000	1.000	
031247130	SR BUSINESS SYSTEMS ANALYST	1.000	1.000	
TOTAL FOR LOC/DIV 03124 - IT-GIS & ANALYTICS:		4.000	4.000	
Div/Loc: 03125 - IT:CLIENT SERVICES				
031253601	IT DIVISION MANAGER	1.000	1.000	
031253618	IT TECHNICIAN II	3.000	2.000	1.000
031257194	SR IT ANALYST	1.000	1.000	
031257149	SR IT TECHNICIAN	2.000	2.000	
031253617	IT TECHNICIAN I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 03125 - IT:CLIENT SERVICES:		7.000	7.000	
Div/Loc: 03126 - IT-ENTERPRISE SOLUTIONS				
031261362	BUSINESS SYSTEMS ANALYST II	4.000	4.000	
031263602	IT PROGRAM MANAGER	1.000	1.000	
TOTAL FOR LOC/DIV 03126 - IT-ENTERPRISE SOLUTIONS:		5.000	5.000	
TOTAL FOR DEPARTMENT 43 - INFORMATION TECHNOLOGY:		39.625	38.625	1.000
Department: 44 CITY CLERK				
Div/Loc: 03200 - CITY CLERK - ADMINISTRATION				
032000250	ASST CITY CLERK	1.000	1.000	
032001220	CITY CLERK	1.000	1.000	
032001227	CITY CLERK TECHNICIAN II	2.000	2.000	
032001665	DEPUTY CITY CLERK II	3.000	3.000	
TOTAL FOR LOC/DIV 03200 - CITY CLERK - ADMINISTRATION:		7.000	7.000	
TOTAL FOR DEPARTMENT 44 - CITY CLERK:		7.000	7.000	
Department: 45 CENTRAL SERVICES				
Div/Loc: 03300 - CENTRAL SERV - ADMINISTRATION				
033000050	ADMIN ANALYST II	1.000	1.000	
033000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
033001125	CENTRAL SERVICES DIRECTOR	1.000	1.000	
TOTAL FOR LOC/DIV 03300 - CENTRAL SERV - ADMINISTRATION:		3.000	3.000	
Div/Loc: 03311 - PURCHASING				
033110084	ADMIN TECHNICIAN	1.000	0.000	1.000
033111055	BUYER I	0.000	1.000	(1.000)
033111060	BUYER II	3.000	2.000	1.000
033115652	PURCHASING & WAREHOUSE MANAGER	1.000	1.000	

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
TOTAL FOR LOC/DIV 03311 - PURCHASING:		5.000	4.000	1.000
Div/Loc: 03312 - CENTRAL STORES				
033121450	COURIER	1.000	1.000	
033127203	SR WAREHOUSE WORKER	1.000	1.000	
033128952	WAREHOUSE WORKER II	1.000	1.000	
TOTAL FOR LOC/DIV 03312 - CENTRAL STORES:		3.000	3.000	
Div/Loc: 03321 - AUTOMOTIVE SERVICES				
033212565	EQUIPMENT MAINT. SUPERVISOR	1.000	1.000	
033212560	EQUIPMENT SERVICEWORKER	4.000	3.000	1.000
033213392	FLEET MANAGER	1.000	1.000	
033214501	MECHANIC II	8.000	3.000	5.000
033214957	OFFICE ASSISTANT II	1.000	1.000	
033217189	SR MECHANIC	2.000	2.000	
033218938	VEHICLE MAINT PARTS BUYER	1.000	0.000	1.000
033218940	VEHICLE MAINT SERVICEWRITER	1.000	1.000	
033218952	WAREHOUSE WORKER II	1.000	1.000	
033214500	MECHANIC I	0.000	2.000	(2.000)
TOTAL FOR LOC/DIV 03321 - AUTOMOTIVE SERVICES:		20.000	15.000	5.000
Div/Loc: 03322 - AUTO REPLACEMENT				
033223319	FLEET MANAGEMENT TECHNICIAN	1.000	0.000	1.000
TOTAL FOR LOC/DIV 03322 - AUTO REPLACEMENT:		1.000	0.000	1.000
Div/Loc: 03331 - BUILDING MAINTENANCE				
033311032	BLDG MAINTENANCE WORKER II	4.000	4.000	
033313395	FACILITIES MANAGER	1.000	1.000	
033314957	OFFICE ASSISTANT II	0.750	0.662	.087
033315560	PROJECT COORDINATOR	1.000	1.000	
033317119	SR BUILDING MAINTENANCE WORKER	2.000	2.000	
TOTAL FOR LOC/DIV 03331 - BUILDING MAINTENANCE:		8.750	8.662	.087
Div/Loc: 03332 - JANITORIAL				
033321485	CUSTODIAN	5.000	5.000	
033327144	SR CUSTODIAN	1.000	1.000	
TOTAL FOR LOC/DIV 03332 - JANITORIAL:		6.000	6.000	
TOTAL FOR DEPARTMENT 45 - CENTRAL SERVICES:		46.750	39.662	7.087
Department: 50 POLICE				
Div/Loc: 05500 - POLICE - ADMINISTRATION				
055000050	ADMIN ANALYST II	1.000	1.000	
055000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
055000510	ASSISTANT POLICE CHIEF	1.000	1.000	
055005400	POLICE CAPTAIN	2.000	2.000	
055005410	POLICE CHIEF	1.000	1.000	
055005420	POLICE LIEUTENANT	1.000	1.000	
055005430	POLICE OFFICER	1.000	1.000	
055005440	POLICE RECORDS CLERK II	1.000	1.000	
055005470	POLICE SERGEANT	1.000	1.000	
TOTAL FOR LOC/DIV 05500 - POLICE - ADMINISTRATION:		10.000	10.000	
Div/Loc: 05511 - RECORDS-PROPERTY				
055115434	POLICE PROP & EVIDENCE CLRK II	3.000	1.000	2.000

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
055115429	POLICE PROPERTY & EVIDENCE SUP	1.000	1.000	
055115435	POLICE RECORDS CLERK I	0.000	3.000	(3.000)
055115440	POLICE RECORDS CLERK II	8.000	5.000	3.000
055115494	POLICE SCENE TECHNICIAN II	4.000	4.000	
055115489	POLICE SERVICES ADMINISTRATOR	1.000	1.000	
055115748	RECORDS SUPERVISOR	1.000	1.000	
055115433	POLICE PROP & EVIDENCE CLRK I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 05511 - RECORDS-PROPERTY:		18.000	17.000	1.000
Div/Loc: 05513 - POLICE COMMUNICATIONS				
055131430	COMMUNICATIONS SUPERVISOR	3.000	3.000	
055131700	DISPATCHER II	19.500	16.500	3.000
055135489	POLICE SERVICES ADMINISTRATOR	1.000	1.000	
TOTAL FOR LOC/DIV 05513 - POLICE COMMUNICATIONS:		23.500	20.500	3.000
Div/Loc: 05514 - COMMUNITY SERVICES				
055141645	DEPT PUBLIC INFO OFFICER	1.000	1.000	
055145430	POLICE OFFICER	6.000	5.000	1.000
055145440	POLICE RECORDS CLERK II	1.000	0.000	1.000
055145470	POLICE SERGEANT	1.000	1.000	
055145485	POLICE SOCIAL SVCS ADMINSTR	1.000	1.000	
055145654	PUB SAFETY OUTREACH & COMM REL	1.000	1.000	
055145657	PUBLIC SAFETY PROGRAM COORD	1.000	1.000	
TOTAL FOR LOC/DIV 05514 - COMMUNITY SERVICES:		12.000	10.000	2.000
Div/Loc: 05531 - PATROL				
055311380	COMMUNITY SVCS OFFICER II	7.000	7.000	
055315420	POLICE LIEUTENANT	3.000	3.000	
055315430	POLICE OFFICER	73.000	73.000	
055315432	POLICE OFFICER TRAINEE	0.000	3.000	(3.000)
055315470	POLICE SERGEANT	9.000	8.000	1.000
055315710	RANGEMASTER	1.000	1.000	
TOTAL FOR LOC/DIV 05531 - PATROL:		93.000	95.000	(2.000)
Div/Loc: 05532 - INVESTIGATIONS				
055321380	COMMUNITY SVCS OFFICER II	2.000	2.000	
055321475	CRIME ANALYST	2.000	2.000	
055325420	POLICE LIEUTENANT	1.000	1.000	
055325430	POLICE OFFICER	17.000	17.000	
055325440	POLICE RECORDS CLERK II	2.000	1.000	1.000
055325470	POLICE SERGEANT	2.000	3.000	(1.000)
TOTAL FOR LOC/DIV 05532 - INVESTIGATIONS:		26.000	26.000	
Div/Loc: 05533 - ANIMAL CONTROL				
055330100	ANIMAL CONTROL OFFICER	2.000	2.000	
055330110	ANIMAL CONTROL SUPERVISOR	1.000	1.000	
TOTAL FOR LOC/DIV 05533 - ANIMAL CONTROL:		3.000	3.000	
Div/Loc: 05535 - POLICE TRAFFIC				
055351380	COMMUNITY SVCS OFFICER II	2.000	2.000	
055355420	POLICE LIEUTENANT	1.000	1.000	
055355430	POLICE OFFICER	7.000	4.000	3.000
055355470	POLICE SERGEANT	1.000	1.000	
TOTAL FOR LOC/DIV 05535 - POLICE TRAFFIC:		11.000	8.000	3.000

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
TOTAL FOR DEPARTMENT 50 - POLICE:		196.500	189.500	7.000
Department: 60 FIRE				
Div/Loc: 06000 - FIRE - ADMINISTRATION				
060000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
060003330	FIRE CHIEF	1.000	1.000	
060003389	FIRE TECHNICIAN II	1.000	1.000	
060004957	OFFICE ASSISTANT II	1.000	1.000	
060005654	PUB SAFETY OUTREACH & COMM REL	0.500	0.000	.500
TOTAL FOR LOC/DIV 06000 - FIRE - ADMINISTRATION:		4.500	4.000	.500
 Div/Loc: 06011 - FIRE PREVENTION				
060111645	DEPT PUBLIC INFO OFFICER	1.000	1.000	
060113377	FIRE & ENVIR SAFETY INSPEC II	1.000	2.000	(1.000)
060113332	FIRE DIVISION CHIEF	1.000	1.000	
060113382	FIRE INSPECTION SUPERVISOR	2.000	2.000	
060113385	FIRE INSPECTOR II	2.000	1.000	1.000
060113454	HAZARDOUS MATERIALS INSPECTOR	1.000	1.000	
TOTAL FOR LOC/DIV 06011 - FIRE PREVENTION:		8.000	8.000	
 Div/Loc: 06021 - FIRE OPERATIONS				
060210480	ASST FIRE CHIEF	1.000	0.000	1.000
060213391	FIRE BATALLION CHIEF (8HR)	1.000	1.000	
060210905	FIRE BATTALION CHIEF	3.000	3.000	
060213320	FIRE CAPTAIN	30.000	30.000	
060213340	FIRE ENGINEER	30.000	30.000	
060213355	FIREFIGHTER PARAMEDIC II	36.000	31.000	5.000
TOTAL FOR LOC/DIV 06021 - FIRE OPERATIONS:		101.000	95.000	6.000
 Div/Loc: 06022 - FIRE TRAINING				
060222415	EMS QUAL ASSURANCE COORDINATOR	1.000	1.000	
060223391	FIRE BATALLION CHIEF (8HR)	1.000	0.000	1.000
060223332	FIRE DIVISION CHIEF	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 06022 - FIRE TRAINING:		2.000	2.000	
 Div/Loc: 06025 - FIRE LOGISTICS				
060250050	ADMINISTRATIVE ANALYST II	1.000	1.000	
060250480	ASST FIRE CHIEF	1.000	0.000	1.000
060253412	GIS ANALYST II	1.000	1.000	
060253332	FIRE DIVISION CHIEF	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 06025 - FIRE LOGISTICS:		3.000	3.000	
 Div/Loc: 06040 - EMERGENCY PREPAREDNESS				
060403332	FIRE DIVISION CHIEF	1.000	1.000	
TOTAL FOR LOC/DIV 06040 - EMERGENCY PREPAREDNESS:		1.000	1.000	
TOTAL FOR DEPARTMENT 60 - FIRE:		119.500	113.000	6.500
Department: 71 PARKS AND RECREATION				
Div/Loc: 08500 - PARKS & REC - ADMINISTRATION				
085000084	ADMIN TECHNICIAN	1.000	1.000	
085000050	ADMINISTRATIVE ANALYST II	1.000	1.000	
085000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
085004517	MARKET & COMMUNICATIONS ANA II	1.000	1.000	

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
085005010	PARKS,REC & LIB BUS ADMINISTR	1.000	1.000	
085005082	PARKS,REC & LIBRARIES DIRECTOR	1.000	1.000	
TOTAL FOR LOC/DIV 08500 - PARKS & REC - ADMINISTRATION:		6.000	6.000	
Div/Loc: 08501 - PARK DEVELOPMENT				
085015022	PARK DEVELOPMENT ANALYST II	1.000	1.000	
085015024	PARK PLANNING & DEV SUPERINTEN	1.000	1.000	
085017192	SR PARKS MAINTENANCE WORKER	1.000	1.000	
TOTAL FOR LOC/DIV 08501 - PARK DEVELOPMENT:		3.000	3.000	
Div/Loc: 08505 - RECREATION STAFFING				
085051401	COMMUNITY RELATIONS ANALYST	1.000	1.000	
085054957	OFFICE ASSISTANT II	4.000	1.000	3.000
085056122	RECREATION COORDINATOR II	6.000	5.000	1.000
085056125	RECREATION MANAGER	1.000	1.000	
085056145	RECREATION SUPERINTENDENT	3.000	3.000	
085056147	RECREATION SUPERVISOR	3.000	3.000	
085054956	OFFICE ASSISTANT I	0.000	3.000	(3.000)
TOTAL FOR LOC/DIV 08505 - RECREATION STAFFING:		18.000	17.000	1.000
Div/Loc: 08521 - MAIDU MUSEUM & HISTORIC SITE				
085213732	INTERPRETIVE SRVCS SPECIAL II	1.000	0.000	1.000
085213740	INTERPRETIVE SRVCS SUPERVISOR	1.000	1.000	
085214957	OFFICE ASSISTANT II	1.000	1.000	
085213730	INTERPRETIVE SRVCS SPECIALST I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08521 - MAIDU MUSEUM & HISTORIC SITE:		3.000	3.000	
Div/Loc: 08530 - AQUATICS				
085305080	PARKS MAINTENANCE WORKER II	1.000	0.000	1.000
085305070	PARKS MAINTENANCE WORKER I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08530 - AQUATICS:		1.000	1.000	
Div/Loc: 08541 - ADVENTURE CLUBS				
085410376	ASSISTANT CHILD CARE SITE COOR	4.000	2.000	2.000
085411225	CHILD CARE SITE COORDINATOR	13.000	12.000	1.000
085414957	OFFICE ASSISTANT II	1.000	1.000	
085415045	PARKS, REC, & LIBRARIES TECH	1.000	0.000	1.000
085416147	RECREATION SUPERVISOR	3.000	2.000	1.000
085410084	ADMIN TECHNICIAN	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08541 - ADVENTURE CLUBS:		22.000	18.000	4.000
Div/Loc: 08545 - AFTER SCHOOL EDUCATION SAFETY				
085451225	CHILD CARE SITE COORDINATOR	2.000	1.000	1.000
TOTAL FOR LOC/DIV 08545 - AFTER SCHOOL EDUCATION SAFETY:		2.000	1.000	1.000
Div/Loc: 08546 - CDE-CHILD DEVELOPMENT				
085461225	CHILD CARE SITE COORDINATOR	2.000	2.000	
TOTAL FOR LOC/DIV 08546 - CDE-CHILD DEVELOPMENT:		2.000	2.000	
Div/Loc: 08550 - PARK OPERATIONS - ADMIN				
085504957	OFFICE ASSISTANT II	1.000	1.000	
085505090	PARKS SUPERINTENDENT	1.000	1.000	
085505069	PARKS SUPERVISOR	3.000	2.000	1.000
085505045	PARKS, REC, & LIBRARIES TECH	1.000	1.000	
TOTAL FOR LOC/DIV 08550 - PARK OPERATIONS - ADMIN:		6.000	5.000	1.000

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
Div/Loc: 08551 - OPEN SPACE/TREE MAINTENANCE				
085514862	NATURAL RESOURCES TECHNICIAN	1.000	1.000	
085514872	NATURAL RESOURCES WORKER II	1.000	0.000	1.000
085514960	OPEN SPACE SUPERINTENDENT	1.000	1.000	
085517154	SR NATURAL RESOURCES WORKER	1.000	1.000	
085517201	SR TREE TRIMMER	1.000	0.000	1.000
085518310	TREE TRIMMER	1.000	1.000	
085518762	URBAN FORESTER	1.000	1.000	
085515070	PARKS MAINTENANCE WORKER I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08551 - OPEN SPACE/TREE MAINTENANCE:		7.000	6.000	1.000
Div/Loc: 08555 - PARKS - MAINTENANCE				
085555075	IRRIGATION TECHNICIAN	1.000	1.000	
085555070	PARKS MAINTENANCE WORKER I	0.000	4.000	(4.000)
085555080	PARKS MAINTENANCE WORKER II	18.000	13.000	5.000
085557192	SR PARKS MAINTENANCE WORKER	9.000	9.000	
TOTAL FOR LOC/DIV 08555 - PARKS - MAINTENANCE:		28.000	27.000	1.000
TOTAL FOR DEPARTMENT 71 - PARKS AND RECREATION:		98.000	89.000	9.000
Department: 72 LIBRARY				
Div/Loc: 06500 - LIBRARY - ADMIN/TECH SERVICES				
065001224	CITY LIBRARIAN	1.000	1.000	
065004152	LIBRARIAN II	7.500	6.500	1.000
065004210	LIBRARY ASSISTANT II	7.000	7.000	
065004246	LIBRARY SUPERVISOR	4.000	4.000	
065004250	LIBRARY TECHNICIAN	5.000	5.000	
TOTAL FOR LOC/DIV 06500 - LIBRARY - ADMIN/TECH SERVICES:		24.500	23.500	1.000
TOTAL FOR DEPARTMENT 72 - LIBRARY:		24.500	23.500	1.000
TOTAL FOR DEPARTMENT 80 - DEVELOPMENT AND OPERATIONS:		0.000	0.000	
TOTAL FOR DEPARTMENT 82 - PLANNING,REDEVELOPMENT,HOUSING:		0.000	0.000	
Department: 83 PUBLIC WORKS				
Div/Loc: 08300 - PUBLIC WORKS - ADMINISTRATION				
083000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
083005635	PUBLIC WORKS DIRECTOR	1.000	1.000	
TOTAL FOR LOC/DIV 08300 - PUBLIC WORKS - ADMINISTRATION:		2.000	2.000	
Div/Loc: 08320 - ENGINEERING				
083200084	ADMIN TECHNICIAN	1.000	1.000	
083200820	ASSOC ENGINEER	3.000	3.000	
083200338	ASST ENGINEER	7.000	6.000	1.000
083203792	JR ENGINEER	0.000	1.000	(1.000)
083205514	PRINCIPAL ENGINEER	1.000	1.000	
083207142	SR ENGINEER	2.750	2.750	
TOTAL FOR LOC/DIV 08320 - ENGINEERING:		14.750	14.750	
Div/Loc: 08321 - FLOOD ALERT				
083210338	ASST ENGINEER	1.000	1.000	
TOTAL FOR LOC/DIV 08321 - FLOOD ALERT:		1.000	1.000	

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
Div/Loc: 08335 - TRAFFIC SIGNALS				
083352380	ELECTRONICS TECHNICIAN I	0.000	1.000	(1.000)
083352385	ELECTRONICS TECHNICIAN II	5.000	4.000	1.000
083355519	PREVENTATIVE MAINT SUPERVISOR	1.000	1.000	
083357170	SR ELECTRIC TECHNICIAN	1.000	1.000	
083352376	TRAFFIC SIGNAL MAINT WKR II	1.000	0.000	1.000
083352375	TRAFFIC SIGNAL MAINT WKR I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08335 - TRAFFIC SIGNALS:		8.000	8.000	
Div/Loc: 08340 - STREETS - ADMINISTRATION				
083404957	OFFICE ASSISTANT II	2.000	2.000	
083407522	STREET MAINTENANCE SUPERVISOR	3.000	3.000	
083407520	STREET MAINTENANCE SUPT	1.000	1.000	
TOTAL FOR LOC/DIV 08340 - STREETS - ADMINISTRATION:		6.000	6.000	
Div/Loc: 08342 - STREET DRAINAGE				
083427187	SR STREET MAINTENANCE WORKER	1.000	1.000	
083427530	STREET MAINTENANCE WORKER II	1.000	1.000	
TOTAL FOR LOC/DIV 08342 - STREET DRAINAGE:		2.000	2.000	
Div/Loc: 08343 - PAVING				
083437162	SR ENGINEERING TECHNICIAN	1.000	0.000	1.000
083437187	SR STREET MAINTENANCE WORKER	2.000	1.000	1.000
083437525	STREET MAINTENANCE WORKER I	0.000	2.000	(2.000)
083437530	STREET MAINTENANCE WORKER II	11.000	9.000	2.000
TOTAL FOR LOC/DIV 08343 - PAVING:		14.000	12.000	2.000
Div/Loc: 08344 - STREET SIGNS				
083447187	SR STREET MAINTENANCE WORKER	1.000	1.000	
083447530	STREET MAINTENANCE WORKER II	2.000	2.000	
TOTAL FOR LOC/DIV 08344 - STREET SIGNS:		3.000	3.000	
Div/Loc: 08345 - STREET PAINT				
083457187	SR STREET MAINTENANCE WORKER	1.000	0.000	1.000
083457530	STREET MAINTENANCE WORKER II	2.000	2.000	
TOTAL FOR LOC/DIV 08345 - STREET PAINT:		3.000	2.000	1.000
Div/Loc: 08348 - STREET SWEEPING				
083487187	SR STREET MAINTENANCE WORKER	1.000	1.000	
083487530	STREET MAINTENANCE WORKER II	1.000	0.000	1.000
083487540	STREET SWEEPER OPERATOR	4.000	3.000	1.000
083487525	STREET MAINTENANCE WORKER I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08348 - STREET SWEEPING:		6.000	5.000	1.000
Div/Loc: 08350 - TRANSPORTATION-ADMIN				
083500084	ADMIN TECHNICIAN	1.000	1.000	
083500088	ALTERNATIVE TRANSP ANALYST II	1.000	1.000	
083500090	ALTERNATIVE TRANSP MGR	1.000	1.000	
083503318	FINANCIAL ANALYST II	1.000	0.000	1.000
083504957	OFFICE ASSISTANT II	1.750	0.000	1.750
083503316	FINANCIAL ANALYST I	0.000	1.000	(1.000)
083504956	OFFICE ASSISTANT I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08350 - TRANSPORTATION-ADMIN:		5.750	5.000	.750
Div/Loc: 08352 - TRANSPORTATION				
083520088	ALTERNATIVE TRANSP ANALYST II	1.750	1.750	

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
083520338	ASST ENGINEER	1.000	0.000	1.000
083524517	MARKET & COMMUNICATIONS ANA II	1.000	1.000	
083524957	OFFICE ASSISTANT II	0.750	0.750	
TOTAL FOR LOC/DIV 08352 - TRANSPORTATION:		4.500	3.500	1.000
Div/Loc: 08354 - CTSA				
083541401	COMMUNITY RELATIONS ANALYST	0.500	0.500	
TOTAL FOR LOC/DIV 08354 - CTSA:		0.500	0.500	
TOTAL FOR DEPARTMENT 83 - PUBLIC WORKS:		70.500	64.750	5.750
Department: 84 ENVIRONMENTAL UTILITIES				
Div/Loc: 08400 - ENV UTIL - ADMINISTRATION				
084000050	ADMIN ANALYST II	2.750	2.750	
084000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
084001050	BUSINESS SVCS ADMINISTRATOR	1.000	1.000	
084001645	DEPT PUBLIC INFO OFFICER	1.000	1.000	
084001684	ENVIRONMENTAL UTIL. DIRECTOR	1.000	1.000	
TOTAL FOR LOC/DIV 08400 - ENV UTIL - ADMINISTRATION:		6.750	6.750	
Div/Loc: 08402 - EU ASSET MANAGEMENT				
084020084	ADMIN TECHNICIAN	1.000	1.000	
084025533	PREVENTATIVE MAINTENANCE COORD	1.000	1.000	
084025514	PRINCIPAL ENGINEER	1.000	1.000	
TOTAL FOR LOC/DIV 08402 - EU ASSET MANAGEMENT:		3.000	3.000	
Div/Loc: 08405 - ENV UTIL-ENGINEERING				
084050411	ASSISTANT EU DIRECTOR	1.000	1.000	
084050820	ASSOC ENGINEER	3.000	2.000	1.000
084050338	ASST ENGINEER	1.000	2.000	(1.000)
084051434	CONSTRUCTION INSPECTOR II	2.000	1.000	1.000
084051672	DEVELOPMENT TECHNICIAN II	1.000	0.000	1.000
084051350	ENGINEERING TECHNICIAN II	2.000	2.000	
084053412	GIS ANALYST II	2.000	2.000	
084054509	MAPPING SUPERVISOR	1.000	1.000	
084054957	OFFICE ASSISTANT II	0.750	0.750	
084055514	PRINCIPAL ENGINEER	1.000	1.000	
084056500	SAFETY COORDINATOR	1.000	1.000	
084057121	SR CONSTRUCTION INSPECTOR	1.000	1.000	
084057142	SR ENGINEER	3.000	3.000	
TOTAL FOR LOC/DIV 08405 - ENV UTIL-ENGINEERING:		19.750	17.750	2.000
Div/Loc: 08410 - SOLID WASTE - ADMINISTRATION				
084103335	FINANCE CLERK II	2.000	1.000	1.000
084104957	OFFICE ASSISTANT II	1.000	0.000	1.000
084106231	REFUSE SUPERINTENDENT	1.000	1.000	
084106242	REFUSE UTILITY MANAGER	1.000	1.000	
084107324	SOLID WASTE BILLING TECHNICIAN	1.000	1.000	
084103334	FINANCE CLERK I	0.000	1.000	(1.000)
084104956	OFFICE ASSISTANT I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08410 - SOLID WASTE - ADMINISTRATION:		6.000	6.000	
Div/Loc: 08411 - RESIDENTIAL SOLID WASTE PICKUP				
084116235	REFUSE SUPERVISOR	1.000	1.000	
084116302	REFUSE TRUCK DRIVER I	0.000	2.000	(2.000)

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
084116304	REFUSE TRUCK DRIVER II	11.000	9.000	2.000
084117129	SR REFUSE TRUCK DRIVER	2.000	2.000	
TOTAL FOR LOC/DIV 08411 - RESIDENTIAL SOLID WASTE PICKUP:		14.000	14.000	
Div/Loc: 08412 - COMMERCIAL SOLID WASTE PICKUP				
084126235	REFUSE SUPERVISOR	1.000	1.000	
084126302	REFUSE TRUCK DRIVER I	0.000	4.000	(4.000)
084126304	REFUSE TRUCK DRIVER II	15.000	11.000	4.000
084127129	SR REFUSE TRUCK DRIVER	2.000	2.000	
TOTAL FOR LOC/DIV 08412 - COMMERCIAL SOLID WASTE PICKUP:		18.000	18.000	
Div/Loc: 08413 - SOLID WASTE MAINTENANCE				
084136225	REFUSE MAINT. WORKER I	0.000	1.000	(1.000)
084136226	REFUSE MAINT. WORKER II	4.000	3.000	1.000
084137129	SR REFUSE TRUCK DRIVER	1.000	1.000	
TOTAL FOR LOC/DIV 08413 - SOLID WASTE MAINTENANCE:		5.000	5.000	
Div/Loc: 08415 - RECYCLING				
084156304	REFUSE TRUCK DRIVER II	3.000	3.000	
TOTAL FOR LOC/DIV 08415 - RECYCLING:		3.000	3.000	
Div/Loc: 08416 - GREEN WASTE PROGRAM				
084166302	REFUSE TRUCK DRIVER I	0.000	1.000	(1.000)
084166304	REFUSE TRUCK DRIVER II	4.000	3.000	1.000
084167129	SR REFUSE TRUCK DRIVER	1.000	1.000	
TOTAL FOR LOC/DIV 08416 - GREEN WASTE PROGRAM:		5.000	5.000	
Div/Loc: 08420 - WASTEWATER - ADMINISTRATION				
084205514	PRINCIPAL ENGINEER	1.000	1.000	
084207142	SR ENGINEER	1.000	1.000	
084209045	WSTWTR UTILITY MANAGER	1.000	1.000	
TOTAL FOR LOC/DIV 08420 - WASTEWATER - ADMINISTRATION:		3.000	3.000	
Div/Loc: 08421 - WATER TREATMENT/STORAGE				
084219175	WATER TRMT PLT CHIEF OPERATOR	1.000	1.000	
084219234	WATER TRMT PLT OPR GD II 8HR	1.000	0.000	1.000
084219230	WATER TRMT PLT OPR GRD III 24	4.000	4.000	
TOTAL FOR LOC/DIV 08421 - WATER TREATMENT/STORAGE:		6.000	5.000	1.000
Div/Loc: 08422 - DRY CREEK WWTP				
084224957	OFFICE ASSISTANT II	1.000	1.000	
084229010	WSTWTR TRMT PLT OPR GD II	2.000	1.000	1.000
084229020	WSTWTR TRMT PLT OPR GD III 24H	4.000	3.000	1.000
084229030	WSTWTR TRMT PLT OPR IV	1.000	1.000	
084229025	WSTWTR TRMT PLT OPR GD III	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08422 - DRY CREEK WWTP:		8.000	7.000	1.000
Div/Loc: 08424 - ENVIRONMENTAL UTIL-MAINTENANCE				
084242378	ELECTRONIC MAINT COORDINATOR	1.000	1.000	
084242385	ELECTRONICS TECHNICIAN II	4.000	4.000	
084244520	MATERIALS TECHNICIAN	1.000	1.000	
084245319	PLANT & EQUIPMENT MAINT WOR II	1.000	2.000	(1.000)
084245328	PLANT & EQUIPMENT MECHANIC II	5.000	3.000	2.000
084245402	PREDICTIVE MAINTENANCE TECH II	1.000	1.000	
084245519	PREVENTATIVE MAINT SUPERVISOR	1.000	1.000	
084245502	PREVENTATIVE MAINT TECH II	5.000	2.000	3.000

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
084245533	PREVENTATIVE MAINTENANCE COORD	2.000	2.000	
084247020	SCADA SYSTEM TECHNICIAN	2.000	2.000	
084247205	SR PLANT & EQUIPMENT MECHANIC	1.000	1.000	
084247284	SR PREVENTATIVE MAINT TECH	2.000	2.000	
084245327	PLANT & EQUIPMENT MECHANIC I	0.000	2.000	(2.000)
084245500	PREVENTATIVE MAINT TECH I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08424 - ENVIRONMENTAL UTIL-MAINTENANCE:		26.000	25.000	1.000
Div/Loc: 08425 - INDUSTRIAL TREATMENT				
084253604	INDUSTRIAL WASTE SPECIALIST	1.000	0.000	1.000
084253610	INDUSTRIAL WASTE TECHNICIAN	2.000	2.000	
TOTAL FOR LOC/DIV 08425 - INDUSTRIAL TREATMENT:		3.000	2.000	1.000
Div/Loc: 08426 - ENVIRONMENTAL TREATMENT LAB				
084261548	DATA MANAGEMENT SPECIALIST II	1.000	1.000	
084262541	EU COMPLIANCE ADMINISTRATOR	1.000	1.000	
084264020	LABORATORY TECHNICIAN II	4.000	4.000	
084269101	WATER QUALITY LAB SUPERVISOR	1.000	1.000	
TOTAL FOR LOC/DIV 08426 - ENVIRONMENTAL TREATMENT LAB:		7.000	7.000	
Div/Loc: 08427 - PLEASANT GROVE WWTP				
084274957	OFFICE ASSISTANT II	1.000	1.000	
084279040	WSTWTR TRMT PLT CHIEF OPERATOR	1.000	1.000	
084279025	WSTWTR TRMT PLT OPR GD III	4.000	4.000	
TOTAL FOR LOC/DIV 08427 - PLEASANT GROVE WWTP:		6.000	6.000	
Div/Loc: 08430 - WATER - ADMINISTRATION				
084309244	WATER UTILITY MANAGER	1.000	1.000	
TOTAL FOR LOC/DIV 08430 - WATER - ADMINISTRATION:		1.000	1.000	
Div/Loc: 08431 - WATER DISTRIBUTION				
084314957	OFFICE ASSISTANT II	3.000	3.000	
084317204	SR WATER DISTRIBUTION WORKER	4.000	4.000	
084319084	WATER DISTRIBUTION SUPERVISOR	1.000	1.000	
084319248	WATER DISTRIBUTION WORKER II	23.000	20.000	3.000
TOTAL FOR LOC/DIV 08431 - WATER DISTRIBUTION:		31.000	28.000	3.000
Div/Loc: 08432 - WASTEWATER COLLECTION				
084324957	OFFICE ASSISTANT II	1.000	0.000	1.000
084327202	SR WSTWTR UTILITY MAINT WKR	4.000	4.000	
084328980	WSTWTR COLLECTION SUPT	1.000	1.000	
084328978	WSTWTR COLLECTION SUPV	1.000	1.000	
084329027	WSTWTR UTILITY MAINT WKR I	0.000	5.000	(5.000)
084329029	WSTWTR UTILITY MAINT WKR II	22.000	17.000	5.000
084324956	OFFICE ASSISTANT I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08432 - WASTEWATER COLLECTION:		29.000	29.000	
Div/Loc: 08433 - WATER EFFICIENCY				
084330084	ADMIN TECHNICIAN	1.000	0.900	.100
084334957	OFFICE ASSISTANT II	1.750	1.000	.750
084339047	WATER CONSERVATION ADMINSTR	1.000	1.000	
084339078	WATER CONSERVATION SPECIALIST	1.000	1.000	
084339049	WATER CONSERVATION WORKER I	0.000	4.000	(4.000)
084339051	WATER CONSERVATION WORKER II	3.000	0.000	3.000
084334956	OFFICE ASSISTANT I	0.000	0.750	(.750)

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
TOTAL FOR LOC/DIV 08433 - WATER EFFICIENCY:		7.750	8.650	(.900)
Div/Loc: 08441 - RECYCLED WATER				
084417162	SR ENGINEERING TECHNICIAN	1.000	1.000	
TOTAL FOR LOC/DIV 08441 - RECYCLED WATER:		1.000	1.000	
Div/Loc: 08527 - UTILITY EXPLORATION CENTER				
085273732	INTERPRETIVE SRVCS SPECIAL II	2.000	2.000	
085273740	INTERPRETIVE SRVCS SUPERVISOR	1.000	1.000	
085274517	MARKET & COMMUNICATIONS ANA II	1.000	1.000	
TOTAL FOR LOC/DIV 08527 - UTILITY EXPLORATION CENTER:		4.000	4.000	
TOTAL FOR DEPARTMENT 84 - ENVIRONMENTAL UTILITIES:		213.250	205.150	8.100
Department: 86 ROSEVILLE ELECTRIC				
Div/Loc: 08600 - ELECTRIC - ADMINISTRATION				
086000084	ADMIN TECHNICIAN	1.000	1.000	
086000071	ADMINISTRATIVE ASSISTANT (C)	1.000	0.000	1.000
086001548	DATA MANAGEMENT SPECIALIST II	1.000	1.000	
086001645	DEPT PUBLIC INFO OFFICER	1.000	1.000	
086001312	ELECTRIC BUSINESS ANALYST II	4.000	3.000	1.000
086002346	ELECTRIC RATES & FINANCIAL ADM	1.000	1.000	
086002358	ELECTRIC TECHNOLOGY SYST SUPV	1.000	1.000	
086002359	ELECTRIC TECHNOLOGY SYSTS TECH	3.000	2.000	1.000
086002320	ELECTRIC UTILITY DIRECTOR	1.000	1.000	
086004517	MARKET & COMMUNICATIONS ANA II	1.000	1.000	
086007128	SR ELECTRIC BUSINESS ANALYST	1.000	1.000	
TOTAL FOR LOC/DIV 08600 - ELECTRIC - ADMINISTRATION:		16.000	13.000	3.000
Div/Loc: 08605 - ELEC REGULATORY-LEGISLATIVE SV				
086050084	ADMIN TECHNICIAN	1.000	1.000	
086050050	ADMINISTRATIVE ANALYST II	1.000	1.000	
086052335	ELECTRIC COMPLIANCE ANALYST	2.000	2.000	
086052348	ELECTRIC REG COMPL ADMINSTR	1.000	1.000	
TOTAL FOR LOC/DIV 08605 - ELEC REGULATORY-LEGISLATIVE SV:		5.000	5.000	
Div/Loc: 08611 - ELECTRIC ENGINEERING				
086110084	ADMIN TECHNICIAN	1.000	1.000	
086110395	ASSISTANT ELECTRIC UTILITY DIR	1.000	1.000	
086112330	ELECTRIC DRAFTING TECH II	2.000	2.000	
086112345	ELECTRIC ENGINEERING TECH II	4.000	3.000	1.000
086112284	ELECTRIC ENGINEERING TECH SUPV	1.000	1.000	
086113412	GIS ANALYST II	1.000	0.000	1.000
086114957	OFFICE ASSISTANT II	2.000	1.000	1.000
086115596	POWER ENGINEER II	4.000	2.000	2.000
086115505	POWER ENGINEERING MANAGER	1.000	1.000	
086117151	SR POWER ENGINEER	2.000	2.000	
086112340	ELECTRIC ENGINEERING TECH I	0.000	1.000	(1.000)
086113410	GIS ANALYST I	0.000	1.000	(1.000)
086115595	POWER ENGINEER I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08611 - ELECTRIC ENGINEERING:		19.000	17.000	2.000
Div/Loc: 08614 - ELECT CONST & MAINTENANCE				
086140150	ELECTRIC APPRENTICE LINE TECH	0.000	2.000	(2.000)
086142280	ELECTRIC LINE CONST SUPERVISOR	2.000	2.000	

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
086142285	ELECTRIC LINE TECH	16.000	9.000	7.000
086142286	ELECTRIC LINE TROUBLESHOOTER	4.000	3.000	1.000
086142212	ELECTRIC MATERIALS TECH II	3.000	3.000	
086142338	ELECTRIC OPERATIONS MANAGER	1.000	1.000	
086142254	ELECTRIC PREV DATA SYSTEM TECH	2.000	1.000	1.000
086142352	ELECTRIC SAFETY COORDINATOR	1.000	1.000	
086142319	ELECTRIC SUBSTATION SUPERVISOR	1.000	1.000	
086142350	ELECTRIC SYSTEM DISPATCHER	3.000	3.000	
086142360	ELECTRIC UTILITY TECHNICIAN I	0.000	3.000	(3.000)
086142362	ELECTRIC UTILITY TECHNICIAN II	17.000	10.000	7.000
086144957	OFFICE ASSISTANT II	1.000	1.000	
086147118	SR ELECTRIC LINE TECHNICIAN	5.000	5.000	
086147169	SR ELECTRIC MATERIALS TECH	1.000	1.000	
086147124	SR ELECTRIC METERING TECH	1.000	1.000	
086147126	SR ELECTRIC SUBSTATION TECH	3.000	3.000	
086147168	SR ELECTRIC SYSTEM DISPATCHER	1.000	1.000	
086142421	ELECTRIC PRE-APPRENTICE	0.000	3.000	(3.000)
TOTAL FOR LOC/DIV 08614 - ELECT CONST & MAINTENANCE:		62.000	54.000	8.000
Div/Loc: 08616 - ELECTRIC POWER PLANT				
086162210	ELECTRIC MATERIALS TECH I	0.000	1.000	(1.000)
086162212	ELECTRIC MATERIALS TECH II	1.000	0.000	1.000
086162362	ELECTRIC UTILITY TECHNICIAN II	1.000	1.000	
086163608	INSTRUMENT & CONTROL TECH	2.000	2.000	
086164957	OFFICE ASSISTANT II	1.000	1.000	
086165600	POWER GENERATION SUPERINTENDEN	1.000	1.000	
086165591	POWER PLANT ENGINEER II	1.000	0.000	1.000
086165530	POWER PLANT OPS & MAINT SUPVS	2.000	2.000	
086165526	PWR PLNT MECHANIC	2.000	2.000	
086165523	PWR PLNT OPERATOR/TECH II	8.000	8.000	
086165555	SR POWER PLANT ENGINEER	1.000	1.000	
086167152	SR POWER PLANT OPERATOR/TECH	4.000	4.000	
TOTAL FOR LOC/DIV 08616 - ELECTRIC POWER PLANT:		24.000	23.000	1.000
Div/Loc: 08621 - POWER SUPPLY				
086210084	ADMIN TECHNICIAN	1.000	1.000	
086218553	ASST ELEC UTIL DIR-RESOURCES	1.000	1.000	
086212314	ELECTRIC RESOURCES ANALYST I	0.000	2.000	(2.000)
086212316	ELECTRIC RESOURCES ANALYST II	7.000	3.000	4.000
086212354	ELECTRIC RISK MGMT ADMINISTRAT	1.000	1.000	
086215535	POWER SUPPLY & PORTFOLIO ADMST	1.000	1.000	
086211312	ELECTRIC BUSINESS ANALYST II	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08621 - POWER SUPPLY:		11.000	10.000	1.000
Div/Loc: 08623 - RETAIL SRVCS-PUBLIC BENEFITS				
086231312	ELECTRIC BUSINESS ANALYST II	1.000	1.000	
086236280	ELECTRIC RETAIL SERVICES SUPV	2.000	1.000	1.000
086232466	ENERGY PROGRAM TECHNICIAN	4.000	4.000	
086232501	ENERGY SERVICES ACCOUNT REP II	2.000	2.000	
086233810	KEY ACCOUNTS REPRESENTATIVE	1.000	1.000	
086234957	OFFICE ASSISTANT II	1.000	1.000	
086237163	SR ENERGY SERVICES ACCOUNT REP	1.000	1.000	
TOTAL FOR LOC/DIV 08623 - RETAIL SRVCS-PUBLIC BENEFITS:		12.000	11.000	1.000

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
TOTAL FOR DEPARTMENT 86 - ROSEVILLE ELECTRIC:		149.000	133.000	16.000
Department: 88 DEVELOPMENT SERVICES				
Div/Loc: 08200 - PLANNING				
082000900	ASSOC PLANNER	5.000	4.000	1.000
082003412	GIS ANALYST II	1.000	0.000	1.000
082004509	MAPPING SUPERVISOR	1.000	1.000	
082004957	OFFICE ASSISTANT II	2.000	2.000	
082005309	PLANNING MANAGER	2.000	2.000	
082005311	PLANNING SYSTEMS ANALYST	1.000	1.000	
082005315	PLANNING SYSTEMS TECHNICIAN II	1.000	1.000	
082005513	PRINCIPAL PLANNER	1.000	0.000	1.000
082005562	PROJECT PLANNER	1.000	1.000	
082007180	SR PLANNER	1.000	2.000	(1.000)
082003410	GIS ANALYST I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08200 - PLANNING:		16.000	15.000	1.000
 Div/Loc: 08800 - DEV SVCS- ADMINISTRATION				
088000050	ADMINISTRATIVE ANALYST II	1.000	0.000	1.000
088000071	ADMINISTRATIVE ASSISTANT (C)	1.000	1.000	
088001676	DEVELOPMENT SERVICES DIRECTOR	1.000	1.000	
088001695	DEVELOPMENT SERVICES MANAGER	1.000	1.000	
088000045	ADMINISTRATIVE ANALYST I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08800 - DEV SVCS- ADMINISTRATION:		4.000	4.000	
 Div/Loc: 08801 - DEV SVCS- PERMIT CENTER				
088015245	PERMIT ANALYST	1.000	1.000	
088015279	PERMIT TECHNICIAN II	4.000	4.000	
TOTAL FOR LOC/DIV 08801 - DEV SVCS- PERMIT CENTER:		5.000	5.000	
 Div/Loc: 08810 - DEV SVCS- BUILDING INSPECTION				
088101017	BLDG INSPECTION SUPERVISOR	1.000	0.000	1.000
088101019	BLDG INSPECTOR II	4.000	3.000	1.000
088101043	BLDG OFFICIAL	1.000	2.000	(1.000)
088101047	BLDG PLANS EXAMINER II	3.000	3.000	
088101672	DEVELOPMENT TECHNICIAN II	2.000	2.000	
088104957	OFFICE ASSISTANT II	1.000	1.000	
088107117	SR BUILDING INSPECTOR	1.000	1.000	
088107195	SR BUILDING PLANS EXAMINER	1.000	1.000	
088101018	BLDG INSPECTOR I	0.000	2.000	(2.000)
TOTAL FOR LOC/DIV 08810 - DEV SVCS- BUILDING INSPECTION:		14.000	15.000	(1.000)
 Div/Loc: 08815 - DEV SVCS- CODE ENFORCEMENT				
088151019	BLDG INSPECTOR II	2.000	0.000	2.000
088151366	CODE ENFORCEMENT INSPECTOR	1.000	1.000	
088157134	SR CODE ENFORCEMENT INSPECTOR	1.000	1.000	
088151018	BLDG INSPECTOR I	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08815 - DEV SVCS- CODE ENFORCEMENT:		4.000	3.000	1.000
 Div/Loc: 08820 - DEV SVCS- ENGINEERING				
088200820	ASSOC ENGINEER	1.000	1.000	
088200338	ASST ENGINEER	3.000	2.000	1.000
088201248	CONSTRUCTION INSPECTION SUPV	1.000	1.000	
088201434	CONSTRUCTION INSPECTOR II	3.000	2.000	1.000
088201277	ENGINEERING MANAGER	1.000	1.000	

Position Allocation/Staffing Report
by Department and Location ("Division")

PCN	Position Title	Allocated FTE	Staffed FTE	(Over)/ Under Staffed Variance
088201350	ENGINEERING TECHNICIAN II	1.000	0.000	1.000
088203326	FINANCE TECHNICIAN II	1.000	1.000	
088205514	PRINCIPAL ENGINEER	1.000	1.000	
088207121	SR CONSTRUCTION INSPECTOR	2.000	2.000	
088207142	SR ENGINEER	2.000	2.000	
088201300	ENGINEERING TECHNICIAN I	0.000	1.000	(1.000)
088201432	CONSTRUCTION INSPECTOR I	0.000	1.000	(1.000)
088203792	JR ENGINEER	0.000	1.000	(1.000)
TOTAL FOR LOC/DIV 08820 - DEV SVCS- ENGINEERING:		16.000	16.000	
Div/Loc: 08830 - DEV SVC-STORMWATER				
088301350	ENGINEERING TECHNICIAN II	1.000	1.000	
088302544	ENVIRONMENTAL COMPL SPEC II	2.000	1.000	1.000
088307142	SR ENGINEER	1.000	1.000	
TOTAL FOR LOC/DIV 08830 - DEV SVC-STORMWATER:		4.000	3.000	1.000
TOTAL FOR DEPARTMENT 88 - DEVELOPMENT SERVICES:		63.000	61.000	2.000
Grand Totals:				
		1,130.250	1,060.212	70.037



COUNCIL COMMUNICATION

CC #: 7483
File #: 0800-06

Title: Second Reading of Ordinance - Municipal Code Amendment - Streets and Sidewalks
Contact: Guy Howes 774-5430 ghowes@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.19.

RECOMMENDATION TO COUNCIL

Recommend City Council provide second reading and adoption of ORDINANCE NO. 5638 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 13.08.050, 13.08.060, AND 13.08.070 OF CHAPTER 13.08 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING STREET, SIDEWALK, CURB AND GUTTER CONSTRUCTION, AMENDING SECTIONS 13.26.080 AND 13.26.090 OF CHAPTER 13.26 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING BRIDGE CROSSINGS AND MAJOR THOROUGHFARES, AND AMENDING SECTIONS 13.28.020, 13.28.030, 13.28.040, 13.28.050, 13.28.060, 13.28.070, 13.28.090, 13.28.100 AND 13.28.130 OF CHAPTER 13.28 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING CONSTRUCTION IN PUBLIC STREETS.

BACKGROUND

N/A

FISCAL IMPACT

N/A

ECONOMIC DEVELOPMENT / JOBS CREATED

N/A

ENVIRONMENTAL REVIEW

N/A

Respectfully Submitted,

Guy Howes, Senior Engineer

Kevin Payne, Development Services Director

A handwritten signature in blue ink, appearing to be 'Rob Jensen', with a long horizontal stroke extending to the right.

Rob Jensen, City Manager

ATTACHMENTS:

Description

Ordinance No. 5638

ORDINANCE NO. 5638

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 13.08.050, 13.08.060, AND 13.08.070 OF CHAPTER 13.08 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING STREET, SIDEWALK, CURB AND GUTTER CONSTRUCTION, AMENDING SECTIONS 13.26.080 AND 13.26.090 OF CHAPTER 13.26 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING BRIDGE CROSSINGS AND MAJOR THOROUGHFARES, AND AMENDING SECTIONS 13.28.020, 13.28.030, 13.28.040, 13.28.050, 13.28.060, 13.28.070, 13.28.090, 13.28.100 AND 13.28.130 OF CHAPTER 13.28 OF TITLE 13 OF THE ROSEVILLE MUNICIPAL CODE REGARDING CONSTRUCTION IN PUBLIC STREETS

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Section 13.08.050 of Chapter 13 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.08.050 Repair of sidewalks.

When any portion of any sidewalk is out of repair or in condition to endanger persons or property, or in condition to interfere with the public convenience in the use thereof except as to those conditions created upon, along or in connection with such sidewalk by the city, or resulting from root or trunk growth of street trees as defined in Section 8.04.030, the city engineer, in the manner provided by state law, shall notify the owner or person in possession of the property abutting or fronting upon that portion of such sidewalk so out of repair, to repair; and upon a failure of the owner or person in possession to repair, the city engineer shall cause such repairs to be made and the cost thereof to be assessed against the abutting or fronting property.

SECTION 2. Section 13.08.060 of Chapter 13.08 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.08.060 Encroachment permit and final approval.

Prior to construction of any such improvements, the project applicant or his or her agent or contractor shall obtain an encroachment permit from the development services engineering division. All improvements shall comply with the City of Roseville design and construction standards.

The building official shall deny final approval and acceptance on final public utility connections to any building or dwelling until the curbs and gutter or curbs, gutters and sidewalks exist or are constructed.

SECTION 3. Section 13.08.070 of Chapter 13.08 of Title 13 of the Roseville Municipal code is hereby amended to read as follows:

13.08.070 Appeal.

A person directly and adversely affected by a decision made by the city engineer pursuant to the provisions of this chapter may appeal the city engineer's decision by filing a written notice of appeal with the city council no later than 10 working days after receiving notice of the city engineer's decision. The notice of appeal shall set forth the name, mailing address and telephone number of the person appealing. The notice of appeal shall include or attach a statement describing the action being appealed, setting forth the grounds for the appeal, and describing the action requested of the city council. The scope of the appeal shall be limited to the grounds specified in the notice of appeal. No later than 30 days after the filing of a timely notice of appeal, the city council shall render a decision on the appeal. A copy of the city council's decision shall be provided to the person appealing at the address shown on the notice of appeal.

SECTION 4. Section 13.26.080 of Chapter 13.26 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.26.080 Exemptions.

Notwithstanding the provisions of Section 13.26.070, payment of such fees shall not be required for:

A. The use, alteration or enlargement of an existing building or structure or the erection of one or more buildings or structures accessory thereto, or both, on the same lot or parcel of land; provided, the total value, as determined by the development services director, of all such alteration, enlargement or construction completed within any one-year period does not exceed one-half of the current market value, as determined by the development services director, of all existing buildings on such lot or parcel of land, and the alteration or enlargement of the building is not such as to change its classification of occupancy as defined by Section 501 of the Uniform Building Code;

B. The following accessory buildings and structures: private garages, children's playhouses, radio and television receiving antennas, windmills, silos, barns, coops, solar energy facilities and other buildings which are accessory to one-family or two-family dwellings;

C. One-family and two-family development on subdivided lots created prior to 1967.

SECTION 5. Section 13.26.090 of Chapter 13.26 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.26.090 Consideration in lieu of fees.

Upon application by the subdivider or applicant for a building permit, the city may accept consideration in lieu of fees required pursuant to this chapter provided:

A. The city council finds, upon recommendation of the development services director, that the substitute consideration has a value equal to or greater than the fee; and

B. The substitute consideration is in a form acceptable to the city council.

SECTION 6. Section 13.28.020 of Chapter 13.28 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.28.020 Definitions.

For purposes of this chapter, the following words shall have the meanings set forth in this section:

- A. “City engineer” means the city engineer for the City of Roseville or designee.
- B. “Encroachment” means any type of construction or work, or the placing of any object or thing, whether permanent or temporary, within a public street.
- C. “Minor encroachment work” means either:
 - 1. Various types of minor work performed within a public street by a person along a minor residential street or a low traffic volume major residential street as long as no traffic impacts are expected, as determined by the city engineer. Examples include, but are not limited to, placement of dumpsters/storage containers/shipping containers, sidewalk repairs, well monitoring, sound wall repairs, park strip landscaping/improvements, sign installations, awnings, façades, temporary sidewalk closures, and work performed by utility companies; or
 - 2. Minor work within commercial or industrial areas as determined by the city engineer.
- D. “Person” means any individual, firm, co-partnership, association, corporation, public district, utility company, or other political subdivision.
- E. “Public street” includes any public right-of-way, highway, street, sidewalk, easement or other area or thoroughfare, whether improved or unimproved, which is owned by or under the control of the city.

SECTION 7. Section 13.28.030 of Chapter 13.28 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.28.030 Application.

Any person desiring to perform construction of any kind or nature across or along any public street shall make application to the city engineer for a permit therefor. Every applicant shall state, in detail, the following information:

- A. The location, dimension, purpose, extent and nature of the work on a plat map, filed in duplicate;
- B. The time during which it is estimated the construction will take place;

C. Such other information as may be required by the city engineer.

The city engineer may, in his or her discretion, waive the filing of a plat map for minor work.

SECTION 8. Section 13.28.040 of Chapter 13.28 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.28.040 Safety—Restoration of work.

A. All work shall be performed by the permittee in accordance with the construction safety orders issued by the Division of Industrial Safety, State of California. The city engineer may, in addition, require other safety precautions as he or she deems appropriate.

B. Within two working days after completion of the work by the permittee, such permittee shall restore the public street to a condition equivalent to that which existed prior to the work. Such restoration shall be in accordance with standards established by the city engineer.

SECTION 9. Section 13.28.050 of Chapter 13.28 of Title 13 is hereby amended to read as follows:

13.28.050 Security required.

A. Performance Security. Each applicant for an encroachment permit shall be required to deposit a security with the city, in the form of a security bond, cash deposit, savings and loan certificate and share, or letter of credit, in an amount determined by the city engineer to be one hundred percent (100%) of the estimated cost of the work to be performed under the encroachment permit. The security shall guarantee:

1. The faithful performance of all terms and conditions of the permit; and
2. That all work completed under the encroachment permit shall be warranted free from defects.

B. Warranty Security. For projects valued at less than \$25,000.00, as determined by the city engineer, the warranty period shall be 180 days. For projects valued greater than \$25,000.00, as determined by the city engineer, the warranty period shall be 365 days. Upon the permittee's request, the performance security shall be replaced with a warranty security equal to ten percent (10%) of the project costs. Upon final inspection following the warranty period all securities will be released.

C. In the event the amount of security is inadequate the city engineer shall have recourse against the permittee for any additional amount of money necessary to restore or repair the public street.

D. The city engineer may, in his or her discretion, waive or vary the security required by this section in the case of minor encroachment work.

SECTION 10. Section 13.28.060 of Chapter 13.28 of Title 13 is hereby amended to read as follows:

13.28.060 General deposit.

In lieu of posting a separate deposit for each permit, a person who anticipates securing a number of permits pursuant to this chapter during an extended period of time may post with the city engineer a deposit in an amount not less than \$2,000.00, which amount shall be used for the purposes set forth in Section 13.28.050; provided, however, that nothing in this section shall relieve the permittee from making separate application for each excavation in a public street.

SECTION 11. Section 13.28.070 of Chapter 13.28 of Title 13 is hereby amended to read as follows:

13.28.070 Fees.

A fee, based on an estimate approved by the city engineer of the cost of the work to be performed under the permit shall be charged for each permit issued pursuant to this chapter as follows:

A. Four percent (4%) of the value of the public improvements for minor encroachment permits, or \$60.00, whichever is greater; or

B. Actual cost for all other encroachment permits. A deposit of two and one-half percent (2.5%) of the value of the public improvements, grading, and erosion control, or \$1,000.00, whichever is greater, shall be provided at the time plans are submitted to the city for review. Prior to plan approval and issuance of a permit, an additional deposit of two and one-half percent (2.5%) or \$1,000.00, whichever is greater, shall be provided. Should the actual city costs exceed the deposit amount, the city engineer may either request the deposit of additional funds as determined by the city engineer, or the permittee will be invoiced monthly through the project close except that permittees holding a state storm water permit will be invoiced monthly until filing of a notice of termination of the state storm water permit. All funds remaining in the deposit account will be refunded upon completion of the maintenance period, with the exception of state storm water permitted projects, wherein a deposit of \$2,500.00 shall be retained until the permittee's filing of a notice of termination of its state storm water permit.

SECTION 12. Section 13.28.090 of Chapter 13.28 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.28.090 Time limit—Extensions.

All permits issued hereunder shall be nontransferable and the work authorized by the permit must commence within thirty days after issuance thereof, and must be completed within a time estimated by the permittee. The city engineer may grant a reasonable extension when the work has been delayed without fault of the permittee.

SECTION 13. Section 13.28.100 of Chapter 13.28 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.28.100 Prohibited interpretations.

Nothing herein shall be read:

A. To prohibit the making of any excavation necessary for the immediate preservation of life or property, provided that any person making such excavation shall notify the city engineer thereof and shall restore the public street in accordance with provisions herein contained;

B. As imposing upon the city, the city engineer, or any employee or agent thereof, any liability for any damage or any injury to any person or property resulting from any act or acts of the permittee, its agents or employees.

SECTION 14. Section 13.28.130 of Chapter 13.28 of Title 13 of the Roseville Municipal Code is hereby amended to read as follows:

13.28.130 Insurance.

A. Permittees performing minor encroachment work consisting of the placement of dumpsters, storage containers and shipping containers within a public street shall maintain liability insurance in the amount of at least \$300,000 during the entire term of the encroachment permit. Permittees performing all other types of minor encroachment work shall maintain liability insurance in the amount of at least \$1,000,000.00 for each occurrence and \$2,000,000.00 aggregate during the entire term of the encroachment permit.

B. Except for applications for minor encroachment work, every application for an encroachment permit pursuant to this chapter shall be accompanied by a certificate of insurance evidencing coverage for liability insurance in the amount of at least \$1,000,000.00 for each occurrence and \$2,000,000.00 aggregate and an additional insured endorsement naming city as an additional insured. The certificate shall be in a form approved by the risk manager, and shall provide thirty (30) days' advance notice to the city of its cancellation or modification.

C. The amounts and coverages required by this section may be waived or varied by the risk manager in his or her discretion.

SECTION 15. This ordinance shall be effective at the expiration of thirty (30) days from the date of adoption.

SECTION 16. The City Clerk is hereby directed to cause this ordinance to be published in full at least once within fourteen (14) days after it is adopted in a newspaper of general circulation in the City, or shall within fourteen (14) days after its adoption cause this ordinance to be posted in full in at least three (3) public places in the City and enter in the Ordinance Book a certificate stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



COUNCIL COMMUNICATION

CC #: 7484
File #: 0500-01

Title: Second Reading of Ordinance - Municipal Code Amendment - Annual Adjustment to Bid Amount
Contact: Gretchen Hakala 774-5325 ghakala@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.20.

RECOMMENDATION TO COUNCIL

Recommend City Council provide second reading and adoption of ORDINANCE NO. 5639 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 4.12.090(A), 4.12.095(A) AND 4.12.100 OF CHAPTER 4.12 OF TITLE 4 REGARDING FORMAL BIDDING.

BACKGROUND

N/A

FISCAL IMPACT

N/A

ECONOMIC DEVELOPMENT / JOBS CREATED

N/A

ENVIRONMENTAL REVIEW

N/A

Respectfully Submitted,

Gretchen Hakala, Paralegal

Robert Schmitt, City Attorney



Rob Jensen, City Manager

ATTACHMENTS:

Description

Ordinance No. 5639

ORDINANCE NO. 5639

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS
4.12.090(A), 4.12.095(A) AND 4.12.100 OF CHAPTER 4.12 OF TITLE 4
REGARDING FORMAL BIDDING

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Section 4.12.090(A) of Chapter 4.12 of Title 4 of the Roseville Municipal Code is hereby amended to read as follows:

4.12.090 Purchasing of supplies—Formal bidding procedure.

A. Purchase of supplies or equipment of an estimated value equal to or greater than the bid amount established by ordinance, adopted by the City Council, and amended yearly in conjunction with the annual budget, shall be by written purchase order with the lowest responsible bidder in accordance with this section.

SECTION 2. Section 4.12.095(A) of Chapter 4.12 of Title 4 of the Roseville Municipal Code is hereby amended to read as follows:

4.12.095 Public works and services—Formal bidding and contract procedure.

A. Contracts for public works or services estimated to have a value equal to or greater than, or to cost equal to or greater than, the bid amount established by ordinance, adopted by the City Council, and amended yearly in conjunction with the annual budget, shall be awarded to the lowest responsible bidder after receipt of sealed formal bids in accordance with this section.

SECTION 3. Section 4.12.100 of Chapter 4.12 of Title 4 of the Roseville Municipal Code is hereby amended to read as follows:

4.12.100 Purchasing—Open market procedure.

Purchases of supplies, equipment, contractual services, and sales of personal property, of an estimated value less than the bid amount established by ordinance, adopted by the City Council, and amended yearly in conjunction with the annual budget, may be made by the purchasing officer in the open market without observing the procedure prescribed in Section 4.12.090.

A. Minimum Number of Bids. Open market purchases shall, whenever possible, be based on at least three bids, and shall be awarded to the lowest vendor with the lowest responsible bid.

B. Notice Inviting Bids. The purchasing officer shall solicit bids from prospective vendors by written requests, by telephone or by published notice to bidders.

C. Record of Bids. For open market purchases of less than the bid amount established by ordinance, adopted by the City Council, and amended yearly in conjunction with the budget, the purchasing officer shall keep a record of all open market orders and bids which may be received in writing or orally for a period of one year after the submission of bids or the placing of orders. This record, while so kept, shall be open to public inspections at the purchasing officer's office.

SECTION 4. This ordinance shall be effective at the expiration of thirty (30) days from the date of adoption.

SECTION 5. The City Clerk is hereby directed to cause this ordinance to be published in full at least once within fourteen (14) days after it is adopted in a newspaper of general circulation in the City, or shall within fourteen (14) days after its adoption cause this ordinance to be posted in full in at least three (3) public places in the City and enter in the Ordinance Book a certificate stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



COUNCIL COMMUNICATION

CC #: 7470
File #: 0600-02

Title: Out of State Travel Request - Electric Department
Contact: Michelle Bertolino 774-5636 mbertolino@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.21.

RECOMMENDATION TO COUNCIL

Staff recommends City Council approve out of state travel for Electric Utility Director, Michelle Bertolino, to attend the Northwest Public Power Association's (NWPPA) Training and Workforce Development Planning meeting on March 24, 2016 in Vancouver, Washington.

BACKGROUND

Electric Utility Director, Michelle Bertolino, is a member of the NWPPA Training and Workforce Development Committee. The purpose of the committee is to bring public electric utilities from throughout the northwest together to plan for and work with electric utility leaders and staff to prepare training and workforce development activities, as well as partner with each other to create programs as cost effectively as possible. These efforts are especially critical at this time due to the retention and recruitment issues many electric utilities, including Roseville, are experiencing in the current job market and throughout the electric utility industry.

FISCAL IMPACT

The estimated total cost for the meeting is approximately \$600, including round trip airfare, one night's lodging, meals and transportation to and from the airport. Funds are available in the Electric Department's approved FY 2016 operating budget.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not Applicable.

ENVIRONMENTAL REVIEW

The request for out of state travel is not considered a "project" as defined by the California

Environmental Quality Act (CEQA). Consequently, no CEQA action is required.

Respectfully Submitted,

Michelle Bertolino, Electric Utility Director

A handwritten signature in blue ink, appearing to read 'Rob Jensen', with a long horizontal stroke extending to the right.

Rob Jensen, City Manager



COUNCIL COMMUNICATION

CC #: 7476
File #: 0600-02

Title: Out of State Travel Request - Electric Department
Contact: Tom Pontes 774-5550 tpontes@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.22.

RECOMMENDATION TO COUNCIL

Staff recommends City Council authorize out of state travel for Roseville Electric employees to participate in the American Public Power Association (APPA) Public Power Lineworkers Rodeo in Minneapolis, Minnesota from May 31 – April 3, 2016. The International Brotherhood of Electrical Workers (IBEW) Local 1245 has agreed to fund all travel and conference costs for one participant team consisting of three Journeyman Line Technicians. Roseville Electric will fund remaining travel and conference costs for the second (three-man) Line Technician team and the Operations Manager and Line Construction Supervisor.

BACKGROUND

The American Public Power Association (APPA) Public Power Lineworkers Rodeo takes place May 31 – April 3, 2016, in Minneapolis, Minnesota. The multi-day event incorporates Lineworker safety training, including courses in touch-potential, transformer banking and proper use of fall equipment and provides an opportunity for electric utility staff to practice essential skills as well as compete for professional recognition. Roseville Electric staff participated in the American Public Power Association (APPA) rodeo hosted by Sacramento Municipal Utility District and the International Lineman's Rodeo in Kansas City last year, successfully earning several awards including first place overall in the Apprentice Lineman category.

Due to the successful efforts of Roseville Electric participants at the APPA and International rodeo events, IBEW has agreed to pay for one team, with Roseville Electric paying for the remainder. The following employees are proposed to attend the event: Jacob Kremenliff, Bryan Salo, William Jordan, Matt Jones, Philip Hartnett, Kyle Geisser, Jason Grace, and Tom Pontes.

FISCAL IMPACT

The estimated total cost to the City is \$6,500. IBEW estimated costs are \$4,500. Funds are available in the Roseville Electric FY15-16 budget to cover the cost of the trip.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not Applicable.

ENVIRONMENTAL REVIEW

This out of state travel request is not considered a “project” as defined by the California Environmental Quality Act (CEQA). Consequently, no CEQA action is required.

Respectfully Submitted,

Tom Pontes, Line Construction Supervisor

Michelle Bertolino, Electric Utility Director

A handwritten signature in blue ink, appearing to read 'Rob Jensen', with a long horizontal flourish extending to the right.

Rob Jensen, City Manager



COUNCIL COMMUNICATION

CC #: 7477
File #: 0600-02

Title: Out of State Travel Request - Environmental Utilities Department
Contact: Carol Margetich 746-1712 cmargetich@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.23.

RECOMMENDATION TO COUNCIL

Approve travel for Administrative Analyst II Janet Vargas to attend the GFOA Data Analysis course in Seattle, Washington from April 7-8, 2016.

BACKGROUND

The Government Finance Officers Association provides professional development training to state, provincial and local level government. In EU's efforts to provide quality rate setting to its ratepayers, training and education is a critically important part of the effort.

FISCAL IMPACT

Funding for travel, lodging, and course costs is estimated to be \$2000 and included in the FY16 EU Administration Budget.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not applicable to this out of state travel request.

ENVIRONMENTAL REVIEW

This request for out of state travel is not a "project" as defined by the California Environment Quality Act (CEQA), per CEQA guidelines section 15378. Consequently, no CEQA action is required.

Respectfully Submitted,

Carol Margetich, Business Services Administrator

Richard D. Plecker P.E., Environmental Utilities Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Training Class Agenda

Search

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Apr 8 2016 - 9:00am to 5:00pm PST**Region:** Pacific**Location:** **Seattle, WA (Seattle Hilton)**

1301 6th Avenue

Seattle, WA 98101

United States

See map: [Google Maps](#)**Phone:** +1 (206) 624-0500**Level:** Basic**Field of Study:** Finance**CPE Credits:** 16**Member Price:** \$580.00**Non-Member Price:** \$790.00**Prerequisite:**➤ [Excel for Budget Analysts](#)**Speakers:**[Alexis Steger](#), Senior Budget Analyst, City of Dubuque, IA[Kenton Tsoodle](#), Assistant Finance Director, City of Oklahoma City, OK**Who Will Benefit:**

Analysts and finance professionals who are responsible for qualitative and quantitative analysis for their org

Program Description:

This course is separated into three topical areas: revenues, expenses, and economic development. Instructors will approach analyzing these different areas and will use class/group exercises to reinforce the discussion and encourage student participation. Instructors will also provide an overview of qualitative and quantitative data relevant information, and techniques to prepare for analysis. Students are asked to bring their own laptop or tablet to the class exercises.

Seminar Objectives:

- Identify internal and external sources of information for data analysis and how they can be made relevant geographies
- Learn Excel techniques for preparing data for analysis
- Gain an understanding of different methods for analyzing revenue, expenses, and economic development
- Apply the methods discussed to various scenarios through course exercises

Recommended GFOA Reading:[Effective Budgeting of Salary and Wages](#)[Establishing Government Charges and Fees](#)[Evaluating and Managing Economic Development Incentives](#)[Evaluating Data and Financial Assumptions in Development Proposals](#)**Agenda:** [Download](#)**Registration Form:**[download](#)



COUNCIL COMMUNICATION

CC #: 7471
File #: 0600-02

Title: Out-of-State Travel - Public Affairs & Communications Department
Contact: Megan MacPherson 774-5455 mmacpherson@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.24.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council approve out-of-state travel for Public Affairs & Communications Director Megan MacPherson to participate the annual Capitol-to-Capitol legislative advocacy program in Washington, D.C. April 8-12, 2016. The program is sponsored annually by the Sacramento Metropolitan Chamber of Commerce and includes leaders in government, business, healthcare, and education from the Sacramento region.

BACKGROUND

The Sacramento Metropolitan Chamber of Commerce's annual four-day Capitol-to-Capitol legislative advocacy program in Washington, D.C. is the region's most comprehensive opportunity to advance specific issues important to Roseville and the region. Nearly 300 delegates, including the region's elected officials, business, education, and non-profit community leaders, present dozens of policy papers from 14 issue-specific teams to members of Congress, the Obama Administration and other federal agencies. Key personnel from various City departments routinely participate in this program.

With City Council's goals of legislative advocacy and civic engagement and the program's & focus on legislation, policy and regulatory matters at the federal level, participation in this program enhances participants' understanding of regional issues as well as responses to these issues from congressional and federal agencies representatives. Strategies are developed and policy matters discussed as participants network with regional colleagues to strengthen the City's diverse legislative advocacy strategy.

FISCAL IMPACT

The estimated cost for travel and conference attendance is \$3,500. Funds are available in the Economic Development Department's budget for fiscal year 2015-16 to cover the cost.

ECONOMIC DEVELOPMENT / JOBS CREATED

The economic benefit to the City will be realized over the longer term, however it cannot be immediately quantified at this time.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15061 (b) (3)). Stating policy priorities does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Megan MacPherson, Director of Public Affairs & Communications

A handwritten signature in blue ink, appearing to read 'Rob Jensen', with a long horizontal stroke extending to the right.

Rob Jensen, City Manager



COUNCIL COMMUNICATION

CC #: 7499
File #: 0102-06

Title: Proclamation - California Arbor Week
Contact: Ellen Worland 774-5131 hblanco@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.25.

RECOMMENDATION TO COUNCIL

Proclaim March 7 - 14, 2016 as California Arbor Week in the City of Roseville, and encourage residents and businesses to join together to plant trees and maintain existing trees.

BACKGROUND

n/a

FISCAL IMPACT

n/a

ECONOMIC DEVELOPMENT / JOBS CREATED

n/a

ENVIRONMENTAL REVIEW

n/a

Respectfully Submitted,

Ellen Worland, Administrative Assistant

Dion Louthan, Parks, Recreation & Libraries Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Proclamation

City of Roseville Proclamation

CALIFORNIA ARBOR WEEK

March 7 - 14, 2016

WHEREAS, March 7-14, 2016 has been designated as CALIFORNIA ARBOR WEEK in honor of the vital role trees and the urban forest play in improving the livability and sustainability of our community; and

WHEREAS, the City of Roseville has embraced the goals of the Greenprint initiative to optimize the benefits of trees to create the best urban forest for the region; and

WHEREAS, the City of Roseville recognizes the contributions tree canopies have to clean air and water, energy conservation, public health, habitat, and the beauty of neighborhoods and business districts; and

WHEREAS, the City of Roseville has an effective community urban forestry program with standards of tree care that continues to improve each year; and

WHEREAS, the City of Roseville benefits when people gain awareness about trees and improve their properties and the community by planting and maintaining trees and landscapes, thereby promoting healthy environments and demonstrating pride in their community; and

WHEREAS, the City of Roseville has received the TREE CITY USA AWARD for thirty four years in a row and the TREE CITY USA GROWTH AWARD for twenty one years; and

WHEREAS, CALIFORNIA ARBOR WEEK 2016 will be observed by schools, communities, civic organizations, and citizens as they participate in tree planting activities.

NOW, THEREFORE, I, CAROL GARCIA, MAYOR OF THE CITY OF ROSEVILLE, CALIFORNIA, on behalf of the City Council, do hereby proclaim **March 7 - 14, 2016** as **CALIFORNIA ARBOR WEEK** in the City of Roseville, and encourage residents and businesses to join together to plant trees and maintain existing trees.

SIGNED AND APPROVED this 2nd day of March, 2016.

CAROL GARCIA, MAYOR

ATTEST:

**SONIA OROZCO, CITY CLERK
CITY OF ROSEVILLE, CALIFORNIA**





COUNCIL COMMUNICATION

CC #: 7478
File #: 0102-06

Title: Proclamation - Keaton Raphael Memorial St. Baldrick's Foundation
Contact: Heather Blanco 774-5265 hblanco@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.26.

RECOMMENDATION TO COUNCIL

Proclaim February 27, 2016 as Keaton Raphael Memorial's St. Baldrick's Foundation Head Shaving Event and urge citizens to support organizations offering assistance and services directly to children diagnosed with cancer.

BACKGROUND

n/a

FISCAL IMPACT

n/a

ECONOMIC DEVELOPMENT / JOBS CREATED

n/a

ENVIRONMENTAL REVIEW

n/a

Respectfully Submitted,

Heather Blanco, Deputy City Clerk

Sonia Orozco, City Clerk



Rob Jensen, City Manager

ATTACHMENTS:

Description

Keaton Raphael Memorial Proclamation

City of Roseville Proclamation

KEATON RAPHAEL MEMORIAL ST. BALDRICK'S FOUNDATION HEAD SHAVING EVENT

February 27, 2016

WHEREAS, Keaton Raphael Memorial was established in 1998 and serves as a positive living legacy for children and families battling cancer; and

WHEREAS, the St. Baldrick's Foundation was created in 2004 as a volunteer-driven effort to raise funds and awareness for childhood cancer research; and

WHEREAS, Keaton Raphael Memorial partnered with St. Baldrick's Foundation 14 years ago to host the Head Shaving Extravaganza to raise money for this worthy cause; and

WHEREAS, with the support of the communities through Keaton Raphael Memorial's head shaving events, over \$500,000 has been raised annually and almost \$6 million dollars raised the past 14 years; and

WHEREAS, Keaton Raphael Memorial is proud to be hosting the 2016 St. Baldrick's Foundation Head Shaving Event at the Westfield Galleria Mall, where in solidarity with children battling cancer, "Heroes" will get their heads shaved by the talented Supercuts team.

NOW, THEREFORE, I, CAROL GARCIA, MAYOR OF THE CITY OF ROSEVILLE, CALIFORNIA, on behalf of the City Council, do hereby proclaim February 27, 2016 as **KEATON RAPHAEL MEMORIAL, ST. BALDRICK'S FOUNDATION HEAD SHAVING EVENT** and urge citizens to support organizations that offer assistance and services to children diagnosed with cancer, and their families.

SIGNED this 17th day of February, 2016.

CAROL GARCIA, MAYOR

ATTEST:

**SONIA OROZCO, CITY CLERK
CITY OF ROSEVILLE, CALIFORNIA**





COUNCIL COMMUNICATION

CC #: 7480
File #: 0102-10

Title: Resolution of Commendation and Appreciation to Kris Blair
Contact: Heather Blanco 774-5265 hblanco@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 7.27.

RECOMMENDATION TO COUNCIL

Recommend Kris Blair be commended for her outstanding service and dedication to the City of Roseville, congratulated for her many accomplishments, and wished a long, healthy, and enjoyable retirement.

BACKGROUND

n/a

FISCAL IMPACT

n/a

ECONOMIC DEVELOPMENT / JOBS CREATED

n/a

ENVIRONMENTAL REVIEW

n/a

Respectfully Submitted,

Heather Blanco, Deputy City Clerk

Sonia Orozco, City Clerk



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution of Commendation

City of Roseville RESOLUTION

of

COMMENDATION AND APPRECIATION

WHEREAS, Kris Blair began her distinguished career with the City of Roseville on February 26, 2000, as a Marketing Representative II to create and maintain a customer outreach program for smaller customer accounts with the Electric Department; and

WHEREAS, after her significant success and establishing leadership qualities, Kris promoted to Major Accounts Representative in June 2003 to oversee and provide a higher level of customer service to the City of Roseville's larger electric accounts; and

WHEREAS, Kris' significant contributions successively lead to her promotion as a Key Account Representative in February 2013 to proactively build relationships with the largest 30-40 electric key accounts, manage energy efficiency, and solar programs, and serve as a major role in key account customer retention through electric bill reduction and energy efficiency savings; and

WHEREAS, Kris has been a dedicated and influential member of the City of Roseville and the Electric Department, making significant contributions that include a successful outreach program to Roseville schools and districts, the development of new commercial energy efficiency rebate programs, and she was a major force behind the installation of the first City owned and operated public electric car charging station; and

WHEREAS, Kris helped establish the City as one of the most successful utility solar electric programs in the nation and demonstrated her excellence as the deserving recipient of the nationally recognized Key Account and Certified Energy Manager and she has also been the worthy recipient of four Pride of Roseville Awards over her 16-year career; and

WHEREAS, Kris has worked for the betterment of all, she will be greatly missed, and remembered by all of her friends and co-workers as an outstanding example of professionalism and exceptional customer service.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, that KRIS BLAIR be commended for her outstanding service and dedication to the City of Roseville, congratulated for her many accomplishments, and wished a long, healthy, and enjoyable retirement.

SIGNED and APPROVED this 2nd day of March, 2016.

CAROL GARCIA, MAYOR

ATTEST:

SONIA OROZCO, CITY CLERK
CITY OF ROSEVILLE, CALIFORNIA





COUNCIL COMMUNICATION

CC #: 7474
File #: 0102-03

Title: Minutes of Prior Meetings
Contact: Sonia Orozco 774-5263 sorozco@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 8.1.

RECOMMENDATION TO COUNCIL

Recommend Council approve the Minutes of December 11, 2015 City Council Special Closed Session (Gore absent), January 6, 2016 City Council Meeting (Gore and Herman absent), January 20, 2016 City Council Closed Session/City Council Meeting (Garcia absent), February 3, 2016 City Council Closed Session/City Council Meeting (Herman absent).

BACKGROUND

N/A

FISCAL IMPACT

N/A

ECONOMIC DEVELOPMENT / JOBS CREATED

N/A

ENVIRONMENTAL REVIEW

N/A

Respectfully Submitted,

Sonia Orozco, City Clerk



Rob Jensen, City Manager

ATTACHMENTS:

Description

December 11, 2015 City Council Special Closed Session Minutes

January 6, 2016 City Council Meeting Minutes

January 20, 2016 City Council Closed Session/City Council Meeting Minutes

February 3, 2016 City Council Closed Session/City Council Meeting Minutes



**MINUTES
DECEMBER 11, 2015**

**CITY COUNCIL
SPECIAL CLOSED SESSION**

2:30 p.m.

Hutchison Conference Room
311 Vernon Street
Roseville, California

A. CLOSED SESSION CALL TO ORDER

Mayor Garcia called the meeting to order at 2:30 p.m.

B. CLOSED SESSION SILENT ROLL CALL

Councilmember:	Bonnie Gore	Absent
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

C. CLOSED SESSION PUBLIC COMMENTS

No public comment received.

D. CLOSED SESSION

1. Conference with Labor Negotiators

Pursuant to California Government Code Section 54957.6

Agency designated representatives: Gayle Satchwell, Jay Panzica, and Tim Davis.

Employee Organizations: Roseville Police Officers Association; Roseville Police Association; IBEW, Local 1245; Stationary Engineers, Local 39; and Management/Confidential Employees.

CONTACT: Gayle Satchwell 774-5374 gsatchwell@roseville.ca.us

Closed Session Disclosure: No reportable action taken.

E. CLOSED SESSION ADJOURNMENT

Motion by Herman, seconded by Roccucci, to adjourn the meeting at 3:15 p.m.

Vote: All Ayes

CAROL GARCIA, MAYOR

SONIA OROZCO, CMC
CITY CLERK



MINUTES JANUARY 6, 2016

CITY COUNCIL MEETING

7:00 p.m.

City Council Chambers
311 Vernon Street
Roseville, California

1. CALL TO ORDER

The January 6, 2016 City Council meeting was called to order by Mayor Carol Garcia at 7:00 p.m.

2. ROLL CALL

Councilmember:	Bonnie Gore	Absent
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Absent
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Interpretive Services Supervisor Mark Murphy.

4. MEETING PROCEDURES

NOTICE TO THE PUBLIC

All Items on the agenda will be open for the public comment before final action is taken. Speakers are requested to restrict comments to the item as it appears on the agenda and stay within a five (5) - minute time limit. The Mayor has the discretion of limiting the total discussion time for an item.

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PUBLIC COMMENTS

NOTICE TO THE PUBLIC

Persons may address the City Council on items not on this agenda. Please complete a "Speaker Information Card" and present it to the City Clerk prior to the start of the meeting. Speakers shall restrict their comments to issues that are within the subject jurisdiction of the City Council and limit their comments to three (3) minutes per person. The total time allocated for Public Comment is 25 minutes. The Brown Act, with certain exceptions, does not permit the City Council to discuss or take action on issues that are not listed on the agenda.

No public comment received.

6. CONSENT CALENDAR

NOTICE TO THE PUBLIC

All matters listed under Consent Calendar are considered to be routine and all will be passed by one motion. There will be no discussion of these items unless members of the City Council or the public request specific items be removed from the Consent Calendar for separate discussion. Any member of the public may address the City Council on items on the Consent Calendar. Public comments on any item or items on the Consent Calendar are limited to five (5) minutes per speaker

BEGINNING OF CONSENT CALENDAR

Approval of the Consent Calendar

Dropped item 6.13 from the agenda and approved the remaining items as recommended.

Minutes

6.1. Minutes of Prior Meetings

Memo from City Clerk Sonia Orozco recommending Council approve the Minutes of September 22, 2015 City Council Meeting, October 21, 2015 Pride of Roseville Ceremony/Closed Session/City Council Meeting, and November 4, 2015 City Council Meeting.

CC #: 7363

File #: 0102-03

CONTACT: Sonia Orozco 774-5263 sorozco@roseville.ca.us

Bids / Purchases / Services

6.2. 911 Call Management System - Service Agreement

Memo from Department Public Information Officer Dee Dee Gunther and Police Chief Daniel Hahn recommending Council adopt RESOLUTION NO. 16-06 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND AT&T CALIFORNIA, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1604332). The Police Department has a need for a new 911 call management system. Staff has worked together with an ad-hoc committee comprised of the communications managers of all 911 centers in Placer County, and that committee recommends the purchase of a hosted, regionally networked system provided by AT&T. Each call center will own their own equipment and software, but the networked system will allow each agency to provide redundancy for the others and to assist each other during times of unusual call volume or a system failure at any of the participating call centers. Roseville's system will cost \$333,467.42. The State of California's 911 Fund will pay the vendor directly for equipment, software, installation, training and annual maintenance costs through the fifth year of the system's operation. There is no impact on the General Fund.

CC #: 7331

File #: 0323

CONTACT: Katie Braverman 774-5037 kbraverman@roseville.ca.us

6.3. Security Guard Services - Service Agreement Renewal

Memo from Buyer Babette Owens and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 16-04 APPROVING A SERVICE AGREEMENT RENEWAL BETWEEN CITY OF ROSEVILLE AND GREEN VALLEY SECURITY, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON

BEHALF OF THE CITY OF ROSEVILLE (S1603065). This is a request of Council to authorize a service agreement renewal with Green Valley Security, Inc. for security guard services utilizing RFQ 2051. The Pleasant Grove Wastewater Treatment Plant (PGWWTP), the Electric Department Yard, and Downtown Library have an ongoing requirement for security guard staffing in order to protect and safeguard assets and property, as well as report potential safety hazards and suspicious activities of unknown individuals when City staff is not on duty. The estimated annual cost of the security guard services is \$135,207.63. Funding is included in the PGWWTP, Electric Department, and Parks, Recreation and Library Department's FY2015/16 Budgets and proposed FY2016/17 Budgets.

CC #: 7358

File #: 0203-14

CONTACT: Babette Owens 774-5704 bowens@roseville.ca.us

6.4. Fiber Conversion Project - Service Agreement and Budget Adjustment

Memo from Buyer Babette Owens and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 16-02 APPROVING A SERVICE AGREEMENT (S1603414) BY AND BETWEEN THE CITY OF ROSEVILLE AND NETWORK MANAGEMENT CORPORATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 5607 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This is a request of Council to authorize award to Network Management Corporation as the only responsive bid to RFQ 01-3058 for the Environmental Utilities Fiber Conversion Project and approve the transfer of funds from the Water Rehabilitation Fund to the Radio Telemetry Communication Fund. Two Environmental Utilities remote facilities will be converted to fiber optics to maintain stable communications due to urban and vegetative interferences. The total cost for the service agreement is \$85,505.00. During the course of a construction project, it is common to encounter unanticipated or changed conditions which necessitate additions or other changes to the project and the contract. Staff is requesting authorization to approve change order requests in an amount not to exceed 10% of the contract price due to the complexity of the project.

CC #: 7354

File #: 0203-09

CONTACT: Babette Owens 774-5704 bowens@roseville.ca.us

Resolutions

6.5. Atlantic/Eureka I-80 On-Ramp Project - Professional Design Services Agreement

Memo from Associate Engineer Hossein Naghibzadeh and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 16-03 APPROVING A PROFESSIONAL DESIGN SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND QUINCY ENGINEERING, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is a request of Council to approve a Professional Design Services Agreement with Quincy Engineering for preliminary engineering and environmental documentation services for the Atlantic/Eureka I-80 Westbound On-Ramp Project. The not-to-exceed fee for the services is \$499,489.14 and is funded with Traffic Mitigation Funds.

CC #: 7356

File #: 0900-04-02

CONTACT: Hossein Naghibzadeh 746-1300 hnaghibzadeh@roseville.ca.us

6.6. Mark and Locate Residential Electric Service - Joint Trench Agreement

Memo from Assistant Electric Utility Director Sonny Person and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 16-05 APPROVING AN AGREEMENT FOR JOINT TRENCHING, BY AND BETWEEN PACIFIC GAS AND ELECTRIC COMPANY AND THE CITY OF ROSEVILLE, AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item recommends City Council authorize the Joint Trench Agreement (JTA) with the Pacific Gas and Electric Company and to delegate the authority to administer the terms of the JTA to the Electric Utility Director. Funding of approximately \$30,000.00 per year is included in Roseville Electric's proposed FY2015/16 Budget.

CC #: 7359

File #: 0800-03

CONTACT: Sonny Person 774-5640 sperson@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

6.7. Roseville Firefighters' Association Salary Schedule Amendment

Memo from Senior Human Resources Analyst Linda Hampton and Human Resources Director Gayle Satchwell recommending Council adopt ORDINANCE NO. 5609 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5370, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY ROSEVILLE AREA FIREFIGHTERS, TO BE EFFECTIVE JANUARY 10, 2016, AS AN URGENCY MEASURE. In October of this year, the City Council approved a two-year agreement between the City of Roseville and the Roseville Firefighters' Association (RFF). As part of the agreement Council approved a 3% salary increase for the group effective the first full pay period in January. Staff is recommending that the City Council adopt an ordinance to approve the RFF salary schedule increasing the salary by 3% effective January 10, 2016. The fiscal impact is \$216,485.00.

CC #: 7357

File #: 0600-01

CONTACT: Linda Hampton 774-5215 lhampton@roseville.ca.us

6.8. Maidu Museum and Historic Site Consignment Sales - Budget Adjustment

Memo from Interpretive Services Supervisor Mark Murphy and Assistant City Manager Dominick Casey recommending Council adopt ORDINANCE NO. 5608 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The budget adjustment of \$20,000.00 will facilitate sales of artwork, jewelry, and books from the Berkeley publisher of Heyday books, and authorize staff to approve and pay artists, jewelers, and the publisher using payment request forms. The revenue from sales of artwork, books, and jewelry will not have a negative fiscal impact. The sales will generate revenue as the City receives a commission of 30% for the artwork and jewelry, and 45% commission on sales from Heyday Books.

CC #: 7355

File #: 0201-01 & 0714-01

CONTACT: Mark Murphy 774-5935 mmurphy@roseville.ca.us

6.9. Transfer Budget Adjustment

Memo from Budget Manager Kathy Cullen and Finance Director Monty Hanks recommending Council adopt ORDINANCE NO. 5611 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET

AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The budget adjustment is a correction to transfers that were submitted as part of the CIP and encumbrance carry forward budget adjustments where incorrect funding sources were used in error. The IdeaScape project transfer carry forward of \$705,646.00 was originally budgeted to be funded by General Fund, but should be funded by Wastewater. \$20,438.00 is a correction to the funding of the UEC project, which should have been funded by Electric, Water, Wastewater, and Solid Waste, however, the Electric funding was not included in the original carry forward budget adjustment.

CC #: 7367

File #: 0201 & 0201-01

CONTACT: Kathy Cullen 746-1306 kcullen@roseville.ca.us

Ordinances (for second reading and adoption)

- 6.10. Second Reading of Ordinance - Water and Solid Waste Rate - Municipal Code Revision
Memo from Business Services Manager Carol Margetich and Environmental Utilities Director Richard Plecker recommending Council present for second reading and adoption ORDINANCE NO. 5610 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 9.12.100 OF CHAPTER 9.12 OF TITLE 9 AND AMENDING SECTION 14.08.090, 14.08.100, AND 14.08.130 OF CHAPTER 14.08 OF TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING UTILITY RATES.

CC #: 7361

File #: 0800-02

CONTACT: Carol Margetich 746-1712 cmargetich@roseville.ca.us

Reports / Requests

- 6.11. Legislative and Regulatory Platform for State and Federal Advocacy - 2016
Memo from Government Relations Administrator Mark Wolinski and Public Affairs and Communications Director Megan MacPherson recommending Council adopt the Legislative and Regulatory Platform for State and Federal Advocacy for 2016. The State and Federal priorities and legislative platform are the result of the City Council's articulation of its goals and priorities during legislative updates and the City Council's Legislative Platform Workshop held November 18, 2015. The Legislative Platform conveys the Council's positions on issues that are currently, or are anticipated to be, the focus of future legislation by the State and Federal governments.

CC #: 7366

File #: 0103-32-02

CONTACT: Mark Wolinski 774-5179 mwolinski@roseville.ca.us

Ceremonial Documents

- 6.12. Resolution of Commendation and Appreciation to Lisa Binner
Lisa Binner be commended for her outstanding service and dedication to the City of Roseville, congratulated for her many accomplishments, and wished a long, healthy, and enjoyable retirement.

CC #: 7360

File #: 0102-10

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

- 6.13. Resolution of Commendation and Appreciation to Michael Parker- **Dropped from the Agenda**

Michael Parker be commended for his outstanding service and dedication to the City of Roseville, congratulated for his many accomplishments, and wished a long, healthy, and enjoyable retirement.

CC #: 7365
File #: 0102-10
CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

Motion by Rohan, seconded by Roccucci, to drop item 6.13 from the agenda and approve the remaining items recommended.

Roll call vote: Ayes: Rohan, Roccucci, Garcia
Noes: None
Absent: Gore, Herman

END OF CONSENT CALENDAR

7. MINUTES

7.1. Minutes of Prior Meetings

Memo from City Clerk Sonia Orozco recommending Council approve the Minutes of September 23, 2015 City Council FY2015-16 Goals Workshop (Herman absent), and September 29, 2015 City Council Special Closed Session (Rohan absent).

CC #: 7364

File #: 0102-03

CONTACT: Sonia Orozco 774-5263 sorozco@roseville.ca.us

City Clerk Sonia Orozco requested approval.

Motion by Rohan, seconded by Roccucci, to approve the minutes of the September 23, 2015 City Council FY2015-16 Goals Workshop, as amended.

Roll call vote: Ayes: Rohan, Roccucci, Garcia
Noes: None
Absent: Gore, Herman

Motion by Roccucci, seconded by Rohan, to approve the minutes of the September 29, 2015 City Council Special Closed Session.

Roll call vote: Ayes: Roccucci, Garcia
Noes: None
Absent: Gore, Herman
Abstain: Rohan

8. RESOLUTIONS

8.1. 103 and 103 1/2 Lincoln Street - Acquisition and Utility Easement

Memo from Development Analyst Bill Aiken and Economic Development Director Chris Robles recommending Council adopt RESOLUTION NO. 16-01 APPROVING AN AGREEMENT FOR SALE OF REAL PROPERTY AND ESCROW INSTRUCTIONS AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests authorization for the City Manager to sign an Agreement for Sale of Real Property and Escrow Instructions. The agreement is for the fee acquisition of a privately owned parcel and a permanent easement in support of the Oak Street Parking Facility Project. Owners Douglas and Rita Wagemann have agreed to sell at the appraised price of \$101,400.00.

CC #: 7352

File #: 0401-02-02-1 & 1002

CONTACT: Bill Aiken 774-5271 baiken@roseville.ca.us

Economic Development Director Chris Robles made the presentation to Council.
Development Analyst Bill Aiken continued the presentation to Council.

No public comment received.

Motion by Roccucci, seconded by Rohan, to adopt RESOLUTION NO. 16-01 APPROVING AN AGREEMENT FOR SALE OF REAL PROPERTY AND ESCROW INSTRUCTIONS AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE.

Roll call vote: Ayes: Rohan, Roccucci, Garcia

Noes: None

Absent: Gore, Herman

9. ORDINANCES

9.1. Memorandum of Understanding for International Brotherhood of Electrical Workers and Memorandum of Terms, Conditions, and Understandings for Management and Confidential Employees

Memo from Human Resources Director Gayle Satchwell recommending Council adopt RESOLUTION NO. 16-07 APPROVING THE MEMORANDUM OF UNDERSTANDING BETWEEN CITY OF ROSEVILLE AND THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 16-08 APPROVING THE MEMORANDUM OF TERMS, CONDITIONS AND UNDERSTANDINGS REGARDING MANAGEMENT AND CONFIDENTIAL EMPLOYEES; and adopt the allocation schedules; and adopt ORDINANCE NO. 5612 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE; and adopt ORDINANCE NO. 5613 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5580, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 5614 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5529, THE SALARY ORDINANCE FOR CITY COUNCIL APPOINTED POSITIONS, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 5615 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5476, THE SALARY ORDINANCE FOR CONFIDENTIAL EMPLOYEES, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 5616 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5559, THE SALARY ORDINANCE FOR ELECTRIC PERSONNEL REPRESENTED BY THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO, LOCAL NO. 1245 (IBEW-A), AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 5617 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5454, THE SALARY ORDINANCE FOR ELECTRIC PERSONNEL REPRESENTED BY THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO, LOCAL NO. 1245 (IBEW-A2), AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE AS AN URGENCY MEASURE.

CC #: 7368

File #: 0600-01 & 0201-01

CONTACT: Gayle Satchwell 774-5374 gsatchwell@roseville.ca.us

Human Resources Director Gayle Satchwell made the presentation to Council.

Charlie Solt, Local 39 Union Representative, spoke on Management MOU and in opposition to adoption of Resolution NO. 16-08.

Motion by Rohan, seconded by Roccucci, to adopt RESOLUTION NO. 16-07 APPROVING THE MEMORANDUM OF UNDERSTANDING BETWEEN CITY OF ROSEVILLE AND THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE;

and,

adopt RESOLUTION NO. 16-08 APPROVING THE MEMORANDUM OF TERMS, CONDITIONS AND UNDERSTANDINGS REGARDING MANAGEMENT AND CONFIDENTIAL EMPLOYEES;

and,

adopt the Electric Department allocation schedule effective January 9, 2016;

and,

adopt ORDINANCE NO. 5612 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE;

and,

adopt ORDINANCE NO. 5613 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5580, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE;

and,

adopt ORDINANCE NO. 5614 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5529, THE SALARY ORDINANCE FOR CITY COUNCIL APPOINTED POSITIONS, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE;

and,

adopt ORDINANCE NO. 5615 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5476, THE SALARY ORDINANCE FOR CONFIDENTIAL EMPLOYEES, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE;

and,

adopt ORDINANCE NO. 5616 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5559, THE SALARY ORDINANCE FOR ELECTRIC PERSONNEL REPRESENTED BY THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO, LOCAL NO. 1245 (IBEW-A), AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE;

and,

adopt ORDINANCE NO. 5617 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5454, THE SALARY ORDINANCE FOR ELECTRIC PERSONNEL REPRESENTED BY THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO, LOCAL NO. 1245 (IBEW-A2), AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE AS AN URGENCY MEASURE.

Roll call vote: Ayes: Rohan, Roccucci, Garcia

Noes: None

Absent: Gore, Herman

10. COUNCIL / STAFF / REPORTS/ COMMENTS

Happy New Year – Councilmember Roccucci extended wish.

Placer County Water Agency/City Planning Meeting – Councilmember Roccucci and Vice Mayor reported on attendance.

11. ADJOURNMENT

Motion by Roccucci, seconded by Rohan, to adjourn the meeting at 7:25 p.m.

Vote: All Ayes

CAROL GARCIA, MAYOR

SONIA OROZCO, CMC
CITY CLERK



**MINUTES
JANUARY 20, 2016**

**CITY COUNCIL CLOSED SESSION
6:15 p.m.**

**CITY COUNCIL MEETING
7:00 p.m.
City Council Chambers
311 Vernon Street
Roseville, California**

CLOSED SESSION

6:15 p.m.

A. CLOSED SESSION CALL TO ORDER

The City Council Closed Session was called to order by Vice Mayor Susan Rohan at 6:15 pm.

B. CLOSED SESSION ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Absent

C. CLOSED SESSION PUBLIC COMMENTS

No public comment received.

D. CLOSED SESSION ITEM

Conference with Legal Counsel – Existing Litigation – Two cases
Pursuant to Government Code Section 54956.9(d)(1)
Quality Investment Properties Roseville, LLC, et al. v.
BBC Roseville Oaks, LLC, and City of Roseville
Placer County Superior Court, Case Number SCV0036959; and
Quality Investment Properties Roseville, LLC, et al v. City of Roseville,
et al. Placer County Superior Court, Case Number SCV0036739
CONTACT: Robert Schmitt 774-5325 rschmitt@roseville.ca.us

Closed Session Disclosure: City Attorney Bob Schmitt stated no reportable action taken.

E. CLOSED SESSION ADJOURNMENT

The meeting was adjourned at 7:00 p.m. by consensus.

1. CALL TO ORDER

The January 20, 2016 Roseville City Council meeting was called to order by Vice Mayor Susan Rohan at 7:00 p.m.

2. ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Present
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Absent

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Councilmember Herman.

4. MEETING PROCEDURES

NOTICE TO THE PUBLIC

All Items on the agenda will be open for the public comment before final action is taken. Speakers are requested to restrict comments to the item as it appears on the agenda and stay within a five (5) - minute time limit. The Mayor has the discretion of limiting the total discussion time for an item.

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PUBLIC COMMENTS

NOTICE TO THE PUBLIC

Persons may address the City Council on items not on this agenda. Please complete a "Speaker Information Card" and present it to the City Clerk prior to the start of the meeting. Speakers shall restrict their comments to issues that are within the subject jurisdiction of the City Council and limit their comments to three (3) minutes per person. The total time allocated for Public Comment is 25 minutes. The Brown Act, with certain exceptions, does not permit the City Council to discuss or take action on issues that are not listed on the agenda.

No public comment received.

6. CONSENT CALENDAR

NOTICE TO THE PUBLIC

All matters listed under Consent Calendar are considered to be routine and all will be passed by one motion. There will be no discussion of these items unless members of the City Council or the public request specific items be removed from the Consent Calendar for separate discussion. Any member of the public may address the City Council on items on the Consent Calendar. Public comments on any item or items on the Consent Calendar are limited to five (5) minutes per speaker

BEGINNING OF CONSENT CALENDAR

Approval of the Consent Calendar

Approved the Consent Calendar as recommended.

Bids / Purchases / Services

6.1. Original Equipment Auto Parts - Blanket Purchase Order

Memo from Equipment Maintenance Supervisor Rich Bakanec and Central Services Director Paul Diefenbach recommending Council approve the award of an annual purchase order with Factory Motor Parts Company for aftermarket parts and filters. Staff also requests authorization to continue utilizing the cooperative contract without further Council approval until the contract expires, or until City staff determines that continuing with the same vendor is not in the City's best interest. The Fleet Services Division has a recurring demand for original equipment manufacturer (OEM) auto parts. The City of Roseville will be utilizing the State of California contract # 7-15-99-25-01 through the National Association of State Procurement Officials. This contract is valid for three years with options to renew at one year intervals for two additional years, through June 30, 2020. The total estimated cost of the OEM auto parts per year is \$50,000.00, not to exceed budgeted amount. Funding is included in the Fleet Services Division FY2015/16 Budget and is contingent upon Council approval of future budgets.

CC #: 7372

File #: 0203-01

CONTACT: Rich Bakanec 746-1720 rbakanec@roseville.ca.us

6.2. Vehicle Purchases

Memo from Buyer Peter Brevik and Central Services Director Paul Diefenbach recommending Council authorize a purchase order to Toyota Material Handling for one Propane Forklift utilizing RFQ 01-3062; and authorize a purchase order to National Auto Fleet Group for two Chevrolet Tahoe's utilizing NJPA contract 102811-NAF; and authorize a purchase order to National Auto Fleet Group for one Ford Transit Van utilizing NJPA contract 102811-NAF; and authorize a purchase order to Riverview International Trucks for one International WorkStar Tractor utilizing the State of California contract 1-14-23-20F; and authorize a sole source purchase order to Brown Industrial for one Organic Fork Load Trailer. The total cost of one Propane Forklift is \$31,342.33. The total cost of two Chevrolet Tahoe's is \$124,126.25. The total cost of one Ford Transit Van is \$45,492.05. The total cost of one International WorkStar Tractor is \$131,639.48. The total cost of one Organic Fork Load Trailer is \$109,474.94. Funding for these vehicles is included in the FY2015/16 Auto Replacement Budget.

CC #: 7374

File #: 0203-01

CONTACT: Peter Brevik 774-5724 pbrevik@roseville.ca.us

6.3. General Construction and Repair – Service Agreement Renewal

Memo from Facility Manager Dan Allen and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 16-12 APPROVING A SERVICE AGREEMENT RENEWAL BETWEEN CITY OF ROSEVILLE AND BULLARD CONSTRUCTION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1605032). This is a request recommending Council authorize the renewal of a service agreement to provide miscellaneous construction and repair services with Bullard Construction. This is the final renewal for this agreement. The total value on the agreement renewal for this year is \$180,000.00. Funding is included in the Building Maintenance Division FY2015/16 and proposed FY2016/17 Budgets.

CC #: 7375

File #: 0203-04

CONTACT: Dan Allen 774-5741 dallen@roseville.ca.us

6.4. Miscellaneous Electrical Work and Repairs - Service Agreement Renewal

Memo from Facility Manager Dan Allen and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 16-13 APPROVING A SERVICE AGREEMENT RENEWAL BETWEEN CITY OF ROSEVILLE AND VASKO ELECTRIC, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (\$1603197). This is a request recommending Council authorize the renewal of a service agreement to provide miscellaneous electrical work and repairs on an as needed basis with Vasko Electric. This is the final renewal for this agreement. The total value on the agreement renewal for this year is \$150,000.00. Funding is included in the Building Maintenance and Park Maintenance FY2015/16 and proposed FY2016/17 Budgets.

CC #: 7376

File #: 0203-04

CONTACT: Dan Allen 774-5741 dallen@roseville.ca.us

Resolutions

6.5. Water Distribution Shop Tenant Improvement - Notice of Completion

Memo from Associate Engineer Edward Winston and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 16-19 ACCEPTING THE PUBLIC WORK KNOWN AS THE WATER DISTRIBUTION SHOP TENANT IMPROVEMENT PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of the Notice of Completion for the Water Distribution Shop Tenant Improvement Project. Total cost of the construction contract was \$109,114.60. The project was funded under the Water Distribution Capital Equipment Fund.

CC #: 7385

File #: 0900-01-02

CONTACT: Edward Winston 774-5566 ewinston@roseville.ca.us

6.6. 2015 Pedestrian Facilities Curb Ramp Improvement Project - Notice of Completion

Memo from Assistant Engineer Nick Graves and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 16-14 ACCEPTING THE PUBLIC WORK KNOWN AS THE 2015 PEDESTRIAN FACILITIES CURB RAMP IMPROVEMENT PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. Federal law now requires all curb ramps adjacent to roadways targeted for resurfacing to meet Americans With Disabilities Act requirements. This project improved 95 curb ramps along arterial streets that are scheduled to be resurfaced in summer 2016. The Engineering Division has made the final inspection of the project and has found the work to be completed in accordance with the improvement plans and City specifications and it is now ready for acceptance. In accordance with the specifications and the Faithful Performance Bond, the contractor shall guarantee the installations of the improvements for a period of twelve months from the date of notice of completion. The construction cost was \$889,650.00 and was funded with a Federal Congestion Mitigation and Air Quality grant.

CC #: 7378

File #: 0900-04-02

CONTACT: Nick Graves 746-1300 ngraves@roseville.ca.us

6.7. Monitoring Well Construction Project - Notice of Completion

Memo from Senior Engineer Jose Lopez and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 16-17 ACCEPTING THE PUBLIC WORK KNOWN AS THE LOCAL GROUNDWATER ASSISTANCE GRANT 2014 MONITORING WELL CONSTRUCTION PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The purpose of this project was to add groundwater monitoring wells in several areas within the Western Placer County Groundwater Management Plan (GMP) boundary to track groundwater elevation, groundwater quality, and recharge areas. To assist with the project costs, the GMP received a Local Groundwater Assistance Grant (AB 303 Grant) in the amount of \$158,450.00 from the California Department of Water Resources. The GMP partners collectively contributed the remaining funds necessary to complete the proposed grant project. The Project was completed on April 7, 2015. The final project cost was \$180,278.00. Staff requests adoption of a resolution accepting the Local Groundwater Assistance Grant 2014 Monitoring Well Construction Project as complete and execution of the Notice of Completion.

CC #: 7381

File #: 0900-02

CONTACT: Jose Lopez 774-5688 jlopez@roseville.ca.us

6.8. Douglas Substation Rehabilitation Phase 1 - Notice of Completion

Memo from Power Engineer Ozro Corulli and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 16-16 ACCEPTING THE PUBLIC WORK KNOWN AS THE DOUGLAS SUBSTATION REHABILITATION PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ELECTRIC UTILITY DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. This is the Notice of Completion for the first phase of the Douglas Substation Rehabilitation project. Total contract amount of \$293,422.00 was paid from the Electric Rehabilitation Fund.

CC #: 7380

File #: 0900-03

CONTACT: Ozro Corulli 774-5586 ocorulli@roseville.ca.us

6.9. Blue Oaks Commerce Center - Freeway Agreement

Memo from City Engineer Marc Stout and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-15 APPROVING A FREEWAY AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is a request for authorization to enter a Caltrans Freeway Agreement for the Blue Oaks Commerce Center. This agreement allows the City to construct and maintain proposed public roadway improvements that will be constructed within City of Roseville, but encroach into Caltrans right of way. This agreement is consistent with past City approvals and will not have an impact on the General Fund.

CC #: 7379

File #: 0800-06

CONTACT: Marc Stout 774-5339 mstout@roseville.ca.us

6.10. Fiddymment Ranch Community Facilities District No. 5 (Public Facilities) - Resolution of Intent

Memo from Administrative Analyst Jeannine Thrash and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 16-09 RESOLUTION OF INTENTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE TO FORM A COMMUNITY FACILITIES DISTRICT AND LEVY A SPECIAL TAX IN FIDDYMENT RANCH COMMUNITY FACILITIES DISTRICT NO. 5 (PUBLIC FACILITIES) TO FINANCE THE ACQUISITION AND CONSTRUCTION OF CERTAIN PUBLIC FACILITIES IN AND FOR SUCH COMMUNITY FACILITIES DISTRICT; and adopt RESOLUTION NO. 16-10 OF INTENTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE TO INCUR BONDED INDEBTEDNESS TO FINANCE THE ACQUISITION AND CONSTRUCTION OF CERTAIN PUBLIC FACILITIES IN AND FOR THE CITY OF ROSEVILLE FIDDYMENT RANCH COMMUNITY FACILITIES DISTRICT NO. 5 (PUBLIC FACILITIES). In this Amendment, the Developer and City agreed to form an 'Overlay' Community Facilities District ("CFD") with respect to Fiddymment Ranch CFD No. 1 for the purpose of financing the construction and/or acquisition of public infrastructure and facilities within the property. These funds may be used to retire project CFD (Fiddymment Ranch CFD No. 1) debt on the property and to construct and/or acquire the improvements and facilities authorized in the Amendment. The total special taxes under this Amendment, according to land use type, within the 'Overlay' CFD shall be less than or equal to, but no more than, the total special taxes for equivalent individual unit types under the revised Section 3.18.1 (of the 5th Amendment) prior to the increase in housing density allowed by the Amendment. ATC Realty One, LLC, the landowner of the land proposed to be included in the District has requested that the City form an 'Overlay' CFD which will be known as Fiddymment Ranch CFD No. 5 (with boundaries contiguous with Fiddymment Ranch CFD 1 Phases 2 and 3) under the Mello-Roos Community Facilities Act of 1982 to provide funding for certain authorized public facilities within the property, as well as the funds to prepay Fiddymment Ranch CFD 1 bonds on the parcels that fall in this new District (known as Fiddymment Ranch CFD No. 5). The property within the boundaries of the CFD will be assessed special taxes as described in the Rate and Method of Apportionment, included as an attachment to the Resolution of Intention. The new bond issue will not exceed \$75 million, and will include the funds to prepay CFD 1 bonds within Phases 2 and 3, and provide the funds needed for the authorized facilities for CFD No. 5. The CFD will generate special taxes, levied on the property owners, sufficient to pay the costs for the debt service, administration, and any authorized facilities. The formation and administration of the CFD will not impact the City's General Fund.

CC #: 7371

File #: 0206-03-01

CONTACT: Jeannine Thrash 774-5473 jthrash@roseville.ca.us

Monty Hanks 774-5313 mhanks@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

6.11. Storage Units Installation - Budget Adjustment

Memo from Park Planning & Development Superintendent Tara Gee and Assistant City Manager Dominick Casey requesting Council adopt ORDINANCE NO. 5618 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This is a request to approve a budget adjustment of \$122,000.00 to purchase and install eight modular storage units at Maidu Regional Park, two units for the Downtown Roseville events

furniture and supplies, and two units at the F-54 park site in West Roseville. Storage at Maidu would include funds from the Youth Soccer groups, the Youth Sports Coalition and City-wide Park Fund, the downtown events units are proposed to be funded through the City-Wide Park Fund, and the F-54 storage is proposed to be funded through the West Roseville Specific Plan City-wide Park Fund.

CC #: 7384

File #: 0201-01 & 0704

CONTACT: Tara Gee 774-5253 tgee@roseville.ca.us

Reports / Requests

6.12. Out of State Travel - Electric Department

Memo from Electric Retail Services Supervisor Marty Bailey and Electric Utility Director Michelle Bertolino recommending Council approve out of state travel for one Roseville Electric Energy Program Technician to attend the Solar Electric Power Association's Utility Solar Conference in Denver, Colorado, from April 11, 2016 to April 14, 2016. Travel costs are estimated at \$3,300.00 and funding is included in the FY16 Electric/Retail Services Budget.

CC #: 7382

File #: 0600-02

CONTACT: Marty Bailey 774-5617 mbailey@roseville.ca.us

6.13. Out of State Travel - Fire Department

Memo from Fire Chief Rick Bartee recommending Council approve out of state travel to attend various National Urban Search and Rescue (US&R) Response System meetings and/or trainings through the remainder of Fiscal Year 2016. Fire Chief Rick Bartee, as the representative of the 28 FEMA US&R Task Forces, is periodically required to attend meetings and/or trainings on their behalf. All travel, per diem, and lodging expenses are directly covered by FEMA, and there is no additional cost to the Roseville Fire Department.

CC #: 7370

File #: 0600-02

CONTACT: Rick Bartee 774-5825 rbartee@roseville.ca.us

Motion by Herman, seconded by Roccucci, approve the Consent Calendar as recommended.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci

Noes: None

Absent: Garcia

END OF CONSENT CALENDAR

7. RESOLUTIONS

7.1. Park Name Recommendations Approval

Memo from Park Planning and Development Superintendent Tara Gee and Assistant City Manager Dominick Casey recommending Council adopt RESOLUTION NO. 16-18 APPROVING NAME RECOMMENDATIONS FOR NEW PARKS AND PARK AMENITY IN THE CITY OF ROSEVILLE. This requests Council to approve the park name recommendations gathered from the 2014 and 2015 park naming advertisement periods as provided by the Park Naming Subcommittee and the Parks & Recreation Commission. The costs for park identification signs will be included in the capital

improvement costs of new parks. Signs associated with existing parks or amenities will be funded at the direction of the City Council, either via community contributions/offsets, full funding through the General Fund or a combination of both.

CC #: 7369

File #: 0704

CONTACT: Tara Gee 774-5253 tgee@roseville.ca.us

Assistant City Manager Dominick Casey introduced Park Planning and Development Superintendent Tara Gee.

Assistant City Manager Dominick Casey made the presentation to Council.

Park Planning and Development Superintendent Tara Gee continued the presentation to Council.

Phoebe Astill, Roseville, spoke in support.

Loren Cook, Representing Fiddymont Farm Neighborhood Association, spoke on concern regarding naming a pocket park after the Fiddymont family stating a regional or citywide park would be more suited for the honor.

Assistant City Manager Dominick Casey responded to comments made by Loren Cook stating there will be more opportunities in the future for naming regional and city-wide parks and facilities.

Richard Kennedy, on behalf of Patricia Kennedy, spoke in support.

Debra Waltrip, on behalf of the Waltrip family, spoke in support.

Jack Wallace park naming discussion regarding renaming Cresthaven Park to Jack Wallace Park at Cresthaven followed:

Scott Alvord, Chair of the Parks & Recreation Commission, spoke in support.

David Larson, Blue Oaks Neighborhood Association, spoke in support.

Marge Wallace, Roseville, spoke in support.

Brock McDonald, Cresthaven Neighborhood Association, spoke in support.

Naming of F-50 School/Park site followed:

Alto Mayberry, Roseville, spoke in support of Laurel Stizzo Park.

Caryl Gadberry, Roseville, spoke in support of Laurel Stizzo Park.

Fred, Roseville, spoke in support of Laurel Stizzo Park.

Bryan Hume, Roseville, spoke in support of naming the park after Bev Bos.

Laura Stizzo, Roseville, spoke in support of Laurel Stizzo Park.

Heather Forney, Roseville, spoke in support of Laurel Stizzo Park.

Phoebe Astill, Roseville, spoke in support of Lauren Stizzo Park.

Assistant City Manager Dominick Casey read letter submitted by Diandra Shireman regarding Lauren Stizzo Park.

Motion by Gore, seconded by Roccucci, to adopt RESOLUTION NO. 16-18 APPROVING NAME RECOMMENDATIONS FOR NEW PARKS AND PARK AMENITY IN THE CITY OF ROSEVILLE, naming Stone Point Neighborhood Park as Patricia Kennedy Park; W-50B Neighborhood Park as Astill Park; F-97 Pocket Park as Elizabeth Jane Fiddymment Park; SSP 56 Neighborhood Park as Owen Russel Waltrip Jr. Park and the play area at Taylor Park as Bob and Barbara Kraft Playground; and to rename Cresthaven Park to Jack Wallace Park at Cresthaven pending funding with a request for Council discretionary funding request to appear at a future meeting for Council's consideration; to name F-50 School/Park site at Laurel T. Stizzo Park; and to extend naming recommendation for Bev Bos for one additional year on the active list (through 2016).

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci

Noes: None

Absent: Garcia

8. ORDINANCES

8.1. Municipal Code Amendment - Public Nuisance

Memo from Senior Code Enforcement Inspector Paul Camilleri and Development Services Director Kevin Payne recommending Council introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 10.54.010 OF CHAPTER 10.54 OF TITLE 10 OF THE ROSEVILLE MUNICIPAL CODE REGARDING NUISANCE ABATEMENT. The proposed change would read "a public nuisance is defined as one which is visible from the public right-of-way on adjacent or nearby real property and which constitutes visual blight; or reduces the aesthetic appearance of the neighborhood; or is offensive to the senses; or is detrimental to nearby property values. Every nuisance not included within this definition is deemed a private nuisance which is not regulated by this code." This action is a follow-up to past City Council direction for staff to review areas of the Municipal Code and recommend modifications where appropriate. This action does not add any additional cost to Code Enforcement operations and therefore has no impact to the General Fund.

CC #: 7386

File #: 0300

CONTACT: Paul Camilleri 774-5459 pcamilleri@roseville.ca.us

Development Services Director Kevin Payne introduced Senior Code Enforcement Inspector Paul Camilleri.

Senior Code Enforcement Inspector Paul Camilleri made the presentation to Council

No public comment received.

Motion by Herman, seconded by Rohan, to introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 10.54.010 OF CHAPTER

10.54 OF TITLE 10 OF THE ROSEVILLE MUNICIPAL CODE REGARDING NUISANCE ABATEMENT.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci

Noes: None

Absent: Garcia

8.2. Memorandum of Understanding for Roseville Police Officer Association

Memo from Human Resources Director Gayle Satchwell recommending Council adopt RESOLUTION NO. 16-11 APPROVING A MASTER MEMORANDUM OF UNDERSTANDING BETWEEN CITY OF ROSEVILLE AND THE ROSEVILLE POLICE OFFICERS ASSOCIATION AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt the allocation schedules; and adopt ORDINANCE NO. 5619 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE; and adopt ORDINANCE NO. 5620 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5451, THE SALARY ORDINANCE FOR SWORN EMPLOYEES REPRESENTED BY THE ROSEVILLE POLICE OFFICERS ASSOCIATION, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE JANUARY 23, 2016, AS AN URGENCY MEASURE. The City has completed negotiations with Roseville Police Officer Association and brings to Council a successor agreement for approval. The total general fund costs of this three year contract are \$2,464,272.

CC #: 7387

File #: 0201-01 & 0600-01

CONTACT: Lisa Achen 774-5205 lachen@roseville.ca.us

Human Resources Director Gayle Satchwell made the presentation to Council.

Richard Tepolt, Roseville, thanked Council.

Phil Mancini, President of the Roseville Police Officers Association, spoke in support.

Michael Voss, Veteran, spoke in support of 3% raises in 2017 and 2018.

Caryl Gadberry, Roseville, spoke on long term costs.

Motion by Herman, seconded by Roccucci, to adopt RESOLUTION NO. 16-11 APPROVING A MASTER MEMORANDUM OF UNDERSTANDING BETWEEN CITY OF ROSEVILLE AND THE ROSEVILLE POLICE OFFICERS ASSOCIATION AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE;

and,

adopt the allocation schedules;

and,

adopt ORDINANCE NO. 5619 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE;

and,

adopt ORDINANCE NO. 5620 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5451, THE SALARY ORDINANCE FOR SWORN EMPLOYEES

REPRESENTED BY THE ROSEVILLE POLICE OFFICERS ASSOCIATION, AS AMENDED BY
APPENDIX "A" TO BE EFFECTIVE JANUARY 23, 2016, AS AN URGENCY MEASURE.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci

Noes: None

Absent: Garcia

9. APPOINTMENTS

9.1. Bi-Annual Board and Commission Appointments

Memo from Deputy Clerk Mary Esquivel and City Clerk Sonia Orozco recommending Council appoint individuals to the Board of Appeals and Transportation Commission as part of the Bi-Annual Board and Commission recruitment process. Additionally, an appointment is requested to fill an unscheduled vacancy on the Public Utilities Commission. Lastly, an appointment is to be made to the Placer Mosquito & Vector Control District. There is no fiscal impact.

CC #: 7377

File #: 0103 & 0103-09 & 0103-13 & 0103-35 & 0103-41

CONTACT: Mary Esquivel 774-5266 mesquivel@roseville.ca.us

City Clerk Sonia Orozco made the presentation to Council.

Board of Appeals

Motion by Herman, seconded by Gore, to appoint Richard Sweet to the Board of Appeals with a term ending December 31, 2019.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci

Noes: None

Absent: Garcia

Public Utilities Commission

Motion by Gore, seconded by Roccucci, to appoint Stephen Kerry Schmitz to the Public Utilities Commission with a term ending June 30, 2019.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci

Noes: None

Absent: Garcia

Transportation Commission

Motion by Herman, seconded by Gore, to appoint Richard DeMarchi and David Nelson to the Transportation Commission with terms ending December 31, 2019.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci

Noes: None

Absent: Garcia

Placer Mosquito & Vector Control District

Motion by Herman, seconded by Gore, to appoint Trustee Colin Roe to the Placer Mosquito & Vector Control District for a fixed term of four years.

Roll call vote: Ayes: Gore, Rohan, Herman, Roccucci

Noes: None

Absent: Garcia

10. COUNCIL / STAFF / REPORTS/ COMMENTS

10.1. Environmental Utilities Update

Environmental Utilities Director Richard Plecker provided an update on drought status and briefed the Council on activities related to water distribution and capacity at Folsom Lake.

For information only. No action taken.

Governors Water Meeting – Vice Mayor Rohan reported on attendance.

11. ADJOURNMENT

Motion by Herman, seconded by Roccucci, to adjourn the meeting at 8:33 p.m.

Vote: All Ayes

SUSAN ROHAN, VICE MAYOR

SONIA OROZCO, CMC
CITY CLERK



**MINUTES
FEBRUARY 3, 2016**

**CITY COUNCIL CLOSED SESSION
6:00 p.m.**

**CITY COUNCIL MEETING
7:00 p.m.
311 Vernon Street
Roseville, California**

CLOSED SESSION

6:00 p.m.

A. CLOSED SESSION CALL TO ORDER

The City Council Closed Session was called to order by Mayor Carol Garcia at 6:00 p.m.

B. CLOSED SESSION SILENT ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Absent
Councilmember:	Pauline Roccucci	Present
Mayor:	Carol Garcia	Present

C. CLOSED SESSION PUBLIC COMMENTS

None.

D. CLOSED SESSION ITEMS

Conference with Legal Counsel - Existing Litigation - Three cases
Pursuant to Government Code Section 54956.9(d)(1)
Joshua David Avila v. City of Roseville, et al.
Placer County Superior Court, Case Number SCV0035285

City of Roseville, et al. v. Pacific Gas and Electric Company
Placer County Superior Court, Case Number SCV0036356; and
California Public Utilities Commission, Case Number 15-07-018

Quality Investment Properties Roseville, LLC, et al. v.
BBC Roseville Oaks, LLC, and City of Roseville
Placer County Superior Court, Case Number SCV0036959; and
Quality Investment Properties Roseville, LLC, et al v. City of Roseville,
et al. Placer County Superior Court, Case Number SCV0036739
CONTACT: Robert Schmitt 774-5325 rschmitt@roseville.ca.us

Closed Session Disclosure: City Attorney Bob Schmitt stated no reportable was taken.

E. CLOSED SESSION ADJOURNMENT

The City Council Closed Session was adjourned at 7:00 p.m.

1. CALL TO ORDER

The City Council meeting was called to order by Vice Mayor Susan Rohan at 7:00 p.m.

2. ROLL CALL

Councilmember:	Bonnie Gore	Present
Vice Mayor:	Susan Rohan	Present
Councilmember:	Tim Herman	Absent
Councilmember:	Pauline Roccutti	Present
Mayor:	Carol Garcia	Present

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Councilmember Gore.

4. MEETING PROCEDURES

NOTICE TO THE PUBLIC

All Items on the agenda will be open for the public comment before final action is taken. Speakers are requested to restrict comments to the item as it appears on the agenda and stay within a five (5) - minute time limit. The Mayor has the discretion of limiting the total discussion time for an item.

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PUBLIC COMMENTS

Ray Hlavna, Center West Insurance Agency, spoke on nonprofit state unemployment insurance.

6. CONSENT CALENDAR

NOTICE TO THE PUBLIC

All matters listed under Consent Calendar are considered to be routine and all will be passed by one motion. There will be no discussion of these items unless members of the City Council or the public request specific items be removed from the Consent Calendar for separate discussion. Any member of the public may address the City Council on items on the Consent Calendar. Public comments on any item or items on the Consent Calendar are limited to five (5) minutes per speaker

BEGINNING OF CONSENT CALENDAR

Approval of the Consent Calendar

The Consent Calendar was approved as recommended.

Bids / Purchases / Services

6.1. Mike Shellito Indoor Pool Splash Pad Phase 1 Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Park Development Analyst Rjahja Canlas and Parks, Recreation & Libraries Director Dion Louthan recommending Council approve the plans and specifications for the Mike Shellito Indoor Pool Splash Pad Phase 1 Project and authorize staff to call for bids. The scope of work for phase 1 includes an outdoor recirculating water play area located within the existing fenced area of the Mike Shellito Indoor Pool. The engineer's estimate for construction is \$267,604.00. Funding for the project was approved in the FY2012/13 Budget, and rolled over due to drought conditions.

CC #: 7407

File #: 0707

CONTACT: Rjahja Canlas 774-5505 rcanlas@roseville.ca.us

6.2. Roseville Road Widening Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Associate Engineer "Luz" Nina Buelna and Public Works Director Rhon Herndon recommending Council approve the plans and specifications for the Roseville Road Widening Project and authorize staff to call for bids. The \$4 million project is funded with \$900,000.00 in Highway Safety Improvement Program grant funds and the remainder with Traffic Mitigation funds.

CC #: 7401

File #: 0900-04-02

CONTACT: Luz "Nina" Buelna 746-1300 nbuelna@roseville.ca.us

6.3. Industrial Ave Bridge Replacement Project - Award of Contract

Memo from Associate Engineer Hossein Naghibzadeh and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 16-20 APPROVING AN AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MCM CONSTRUCTION, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The amount of the contract for the replacement of the Industrial Avenue Bridge over Pleasant Grove Creek is \$3,798,870.00. The project is funded by the Federal Highway Bridge Program which pays 88.53% of the total cost of the project. Matching funds are provided by Prop 1B funds in the amount of \$500,000.00.

CC #: 7394

File #: 0900-04

CONTACT: Hossein Naghibzadeh 746-1300 hnaghibzadeh@roseville.ca.us

6.4. Ammunition Purchase

Memo from Department Public Information Officer Dee Dee Gunther and Police Chief Daniel Hahn recommending Council authorize the issuance of a purchase order to Miwall Corporation for the purchase of Hornady ammunition for an amount not to exceed \$88,150.00. The Police Department has an ongoing requirement for ammunition for its various firearms used by police officers, animal control officers, and the regional SWAT team. Last year, police range staff tested various brands of ammunition using FBI-established test protocols, and determined that Hornady Ammunition best met the department's needs, and at a significantly lower cost than the previous provider. Miwall

Corporation is the exclusive northern California distributor for Hornady Ammunition, and therefore the department requests a sole-source award to Miwall Corp. The purchase order will be for an amount not to exceed \$88,150.00. Sufficient funds have been included for this purpose in the current fiscal year budget.

CC #: 7417

File #: 0203-12

CONTACT: Randy Thompson 774-5099 rthompson@roseville.ca.us

6.5. CommVault Software Support – Purchase Order

Memo from Buyer Joanna Oukrop and Central Services Director Paul Diefenbach recommending Council authorize a purchase order to SHI International Corporation for software support required to maintain the City's CommVault backup/storage management software utilizing the State of California's Western States Contracting Alliance-National Association of State Procurement Officials (WSCA-NASPO) software value added reseller contract number 7-12-70-19. The total annual cost of the software support is \$26,064.71. Funding is included in the Information Technology Department's FY2015/16 Budget.

CC #: 7404

File #: 0203-06

CONTACT: Joanna Oukrop 774-5745 joukrop@roseville.ca.us

6.6. Roof Replacement - Service Agreement

Memo from Buyer Joanna Oukrop and Central Services Director Paul Diefenbach recommending Council adopt RESOLUTION NO. 16-23 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND CALIFORNIA SINGLE PLY, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1605227). This is a request for Council to authorize a service agreement to California Single Ply, Inc. as the lowest responsive bidder to RFQ 01-3063 for roof replacement services. The Electric Department has a requirement to replace the 30-year old roof and gutters on their 60-kilovolt control building at the Berry Street receiving station. The total value of the contract award is \$31,380.00. Funding is included in the Electric Department's FY2015/16 Budget.

CC #: 7411

File #: 0900-03

CONTACT: Joanna Oukrop 774-5745 joukrop@roseville.ca.us

6.7. Roseville Electric Generation Facilities Maintenance Support and Repair Services - Service Agreement

Memo from Senior Power Plant Engineer Jason Miller and Electric Utility Director Michelle Bertolino recommending Council adopt RESOLUTION NO. 16-28 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND PERFORMANCE MECHANICAL, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1603193). The service agreement with Performance Mechanical, Inc., in the amount of \$500,000.00 is for maintenance support and repair services for Roseville Electric Utility generation facilities. Funding is included in the Electric Department Budget for FY16.

CC #: 7400

File #: 0800-03

CONTACT: Jason Miller 746-1665 jmiller@roseville.ca.us

6.8. Audiovisual Services - Service Agreement

Memo from Information Technology GIS and Analytics Manager Scott Adrian and Chief Information Officer Hong Sae recommending Council adopt RESOLUTION NO. 16-27 APPROVING A SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND BETTER PRESENTATION SYSTEMS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1604135). This item requests approval of a service agreement with Better Presentation Systems, Inc. for Citywide audiovisual equipment and services per their RFP response on October 30, 2015. The total not-to-exceed amount during the contract term is \$750,000.00. Funding will be from end-using department budgets.

CC #: 7398

File #: 0203-06

CONTACT: Scott Adrian 774-5164 sadrian@roseville.ca.us

Resolutions

6.9. Fiddymment Ranch Phase 2 Village 16-A - Certificate of Completion

Memo from Senior Construction Inspector Darrell Robbison and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-33 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE 16A PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. This project represents a completed subdivision ready for certificate of completion. The Engineering Division has made final inspection of the project and has found the roadway infrastructure work complete in accordance with the improvement plans and City Specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 7412

File #: 0400-04-09-2

CONTACT: Darrell Robbison 746-1321 drobbison@roseville.ca.us

6.10. Fiddymment Ranch Phase 2 Village 16-B - Certificate of Completion

Memo from Construction Inspector Orville Chatterton and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-34 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS FIDDYMENT RANCH PHASE 2 VILLAGE 16-B PROJECT, APPROVING THE "CERTIFICATE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made a final inspection of the project and has found the roadway infrastructure work completed in accordance with the improvement plans and City specifications. The right of way, public utility, and drainage easements will be conveyed to the City by separate document and will be recorded concurrently with the Certificate of Completion. There is no fiscal impact to the General Fund.

CC #: 7413

File #: 0400-04-09-1

CONTACT: Orville Chatterton 774-5347 ochatterton@roseville.ca.us

- 6.11. Roseville Aquatics Complex Overflow Parking Lot Project - Notice of Completion
Memo from Assistant Engineer Noah Siviglia and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 16-26 ACCEPTING THE PUBLIC WORK KNOWN AS THE ROSEVILLE AQUATICS COMPLEX OVERFLOW PARKING LOT PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The project construction cost was \$553,067.97, and was funded through the Northwest Lighting and Landscape District, Traffic Mitigation Fees, and Transportation Development Act funds.
CC #: 7399
File #: 0707
CONTACT: Noah Siviglia 746-1379 nsiviglia@roseville.ca.us
- 6.12. 2015 Washington Boulevard Road Rehabilitation Project - Notice of Completion
Memo from Assistant Engineer Noah Siviglia and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 16-21 ACCEPTING THE PUBLIC WORK KNOWN AS THE 2015 WASHINGTON BLVD. ROAD REHABILITATION PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends that the City Council accept the 2015 Washington Boulevard Road Rehabilitation Project as complete and adopt a resolution authorizing the Public Works Director to execute the Notice of Completion. The final construction cost was \$994,237.80 and was funded with Gas Tax funds.
CC #: 7389
File #: 0900-04-01 & 0900-04-02
CONTACT: Noah Siviglia 746-1379 nsiviglia@roseville.ca.us
- 6.13. Fiscal Year 2016 Transportation Development Act Claim
Memo from Alternative Transportation Manager Michael Wixon and Public Works Director Rhon Herndon recommending Council adopt RESOLUTION NO. 16-24 APPROVING AND AUTHORIZING EXECUTION OF THE 2016 TRANSPORTATION DEVELOPMENT ACT CLAIMS TO THE PLACER COUNTY TRANSPORTATION PLANNING AGENCY. This is a request to authorize the City Manager or his designee to sign and submit the annual Transportation Development Act Claim for FY16 to the Placer County Transportation Planning Agency in an amount not exceed \$7,912,734.00.
CC #: 7396
File #: 0721
CONTACT: Michael Wixon 774-5293 mwixon@roseville.ca.us
- 6.14. Revenue Enhancement Services - Professional Services Agreement
Memo from Administrative Analyst Jeannine Thrash and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 16-31 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MUNISERVICES, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 16-25 AUTHORIZING THE EXAMINATION OF SALES OR TRANSACTIONS AND USE TAX RECORDS. The City contracts with a consultant to perform revenue enhancement services which may include the following; sales, transactions and use tax audit; sales/use tax analysis and reporting; property tax audit; property tax information, franchise fee compliance review; and franchise fee compliance

services. MuniServices provides comprehensive revenue enhancement services to municipalities with the goal to preserve, enhance, and manage their revenue base. Founded in 1978, they work exclusively with the government sector. The City has had a relationship with MuniServices for many years and wants to retain it as a consultant for revenue enhancement services. There will be no new fiscal impact due to this agreement since the consulting services it covers is already budgeted. If a project that isn't budgeted for comes up within the scope of this contract, staff will return to Council requesting a budget adjustment. The agreement allows services up to a cumulative of \$375,000.00, but not exceeding \$125,000.00 per fiscal year.

CC #: 7408

File #: 0200

CONTACT: Jeannine Thrash 774-5473 jthrash@roseville.ca.us

Monty Hanks 774-5313 mhanks@roseville.ca.us

6.15. 316 Vernon Office Building - Professional Services Agreement Amendment

Memo from Development Services Manager Mike Isom and Development Services Director Kevin Payne recommending Council adopt RESOLUTION NO. 16-22 APPROVING A FOURTH AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND ENGEO, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is the fourth amendment to a professional services agreement with Engeo, Inc. for geotechnical engineering services associated with the 316 Vernon Office Building project. The proposed amendment adds \$10,700.00 to the existing contract for additional observation of footing excavation and pad construction, environmental services associated with the underground storage tank closure, and other related engineering services. The amendment results in a revised not-to-exceed contract total of \$90,478.00. Sufficient funds are available in the 316 Vernon Office Building project fund. No General Fund monies are required.

CC #: 7390

File #: 0401-02-02-1

CONTACT: Mike Isom 774-5527 misom@roseville.ca.us

6.16. Special Financing Districts Administrative Services - Agreement Addendum

Memo from Administrative Analyst Jeannine Thrash and Finance Director Monty Hanks recommending Council adopt RESOLUTION NO. 16-32 APPROVING A 10TH ADDENDUM TO AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND WILLDAN FINANCIAL SERVICES, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The City has entered into an agreement with Willdan Financial Services (formerly MuniFinancial) for Professional Services to administer the City's Special Financing Districts. The administrative services provided include the development of the engineer's report, the annual disclosure reports, delinquency management, and the annual levy budgets. The City has 45 Special Financing Districts which 36 include Community Facilities Districts (CFD's), and nine Lighting and Landscaping Districts (LLD's), all of which are administered by Willdan Financial Services. As new districts/services have been formed, the City has brought addendums to Council to include them as part of the administration services provided by Willdan. The 10th addendum is now being brought to Council to add the administration services for the newly formed Westbrook and HP Campus Oaks CFD's. To avoid having to come back to Council with another addendum, Fiddymment Ranch CFD No. 5 has been included, which, if approved will be formed no later than March 2016. Also, HP Campus Oaks CFD 2 is planned to begin the formation process in the near future. Approving the

resolution and 10th Addendum to the Agreement will not directly impact the City's General Fund. The annual administration fee is levied against each district.

CC #: 7373

File #: 0206

CONTACT: Jeannine Thrash 774-5473 jthrash@roseville.ca.us

Monty Hanks 774-5313 mhanks@roseville.ca.us

6.17. Water Quality and Landfill Gas Monitoring and Reporting Services - Professional Services Agreement

Memo from Refuse Utility Manager Devin Whittington and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 16-29 APPROVING A PROFESSIONAL SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND CH2M HILL, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is a request to approve the award of a sole source, professional service agreement to CH2M Hill for 2016 Water Quality and Landfill Gas Monitoring Reporting and Environmental Services, and authorizes the City Manager to sign the agreement, on behalf of the City. The \$214,809.00 is budgeted through FY2016 funded through the Solid Waste Operations Fund and a reimbursement agreement with Placer County Flood Control District.

CC #: 7406

File #: 0800-02

CONTACT: Devin Whittington 774-5783 dwhittington@roseville.ca.us

Ordinances (for introduction and first reading)

6.18. 2015 Speed Limit Ordinance Update

Memo from Senior Engineer Jana Cervantes and Public Works Director Rhon Herndon recommending Council introduce for first reading ORDINANCE OF THE CITY COUNCIL OF CITY OF ROSEVILLE AMENDING SECTION 11.28.010 OF CHAPTER 11.28 OF TITLE 11 OF THE ROSEVILLE MUNICIPAL CODE REGARDING SPEED LIMITS. This item requests that Council approve the annual speed limit ordinance update. This will ensure the City's speed limits will be in compliance with state law and will be radar enforceable. There is no fiscal impact.

CC #: 7388

File #: 0316-04

CONTACT: Jana Cervantes 774-5498 jcervantes@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

6.19. Youth Sports Coalition Fund - Budget Adjustment

Memo from Budget Manager Kathy Cullen and Finance Director Monty Hanks recommending Council adopt ORDINANCE NO. 5622 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Youth Sports Coalition annual project expenses are run through the Citywide Park Fund and require a transfer from the Roseville Youth Sports Coalition Fund to offset these expenses. During adoption of the FY2015/16 Budget, the \$66,000.00 transfer was not completed to cover the related expenses. The Youth Sports Coalition Fund's unrestricted ending fund balance will be reduced by \$66,000.00 to fund the annual expenses of the Youth Sports Coalition project. There is no impact to the City's General Fund.

CC #: 7402

File #: 0201-01

CONTACT: Kathy Cullen 746-1306 kcullen@roseville.ca.us

6.20. Roseville Firefighters' Association - Salary Schedule Correction

Memo from Senior Human Resources Analyst Linda Hampton and Human Resources Director Gayle Satchwell recommending Council adopt ORDINANCE NO. 5621 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5609, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY ROSEVILLE AREA FIREFIGHTERS, TO BE EFFECTIVE JANUARY 9, 2016, AS AN URGENCY MEASURE. In October of this year, the City Council approved a two-year agreement between the City of Roseville and the Roseville Firefighters' Association (RFF). As part of the agreement, Council approved a 3% salary increase for the group effective the first pay period in January. Last month, staff brought before council the salary schedule for approval and inadvertently indicated it was effective January 10, 2016 instead of January 9, 2016 - which is the first day of the first full pay period in January. Staff is requesting that council approve the attached RFF salary schedule (Appendix A) with the amended effective date of January 9, 2016. The fiscal impact is reflected in the current budget. This action is administrative in nature.

CC #: 7394

File #: 0600-01

CONTACT: Linda Hampton 774-5215 lhampton@roseville.ca.us

6.21. American River Water Supplies – Joint-Defense and Cost-Sharing Agreement and Budget Adjustment

Memo from Public Affairs & Communications Administrator Sean Bigley and Environmental Utilities Director Richard Plecker recommending Council adopt RESOLUTION NO. 16-30 APPROVING AN AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, CITY OF FOLSOM, CITY OF SACRAMENTO, PLACER COUNTY WATER AGENCY, SACRAMENTO COUNTY WATER AGENCY, SACRAMENTO SUBURBAN WATER DISTRICT AND SAN JUAN WATER DISTRICT AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 5624 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests that the City Council authorize the City Manager to sign the Joint Defense and Cost-Sharing Agreement for \$50,000.00 for the development of strategies to preserve and protect American River Water supplies. Additionally, due to the amount of work ahead, staff recommends that the City Council provide the City Manager the authority to authorize an additional \$150,000.00 of work pursuant to Condition 1 of the Joint Defense and Cost Sharing Agreement. To pay for this work, staff recommends approval of the attached \$200,000.00 budget adjustment for FY2016 from the Water Operations Fund.

CC# 7410

File# 0201-01 & 0800-02

CONTACT: Sean Bigley 774-5513 sbigley@roseville.ca.us

Ordinances (for second reading and adoption)

6.22. Second Reading - Municipal Code Amendment - Public Nuisance

Memo from Senior Code Enforcement Inspector Paul Camilleri and Development Services Director Kevin Payne recommending Council introduce for second reading and adoption ORDINANCE NO. 5623 OF THE COUNCIL OF THE CITY OF ROSEVILLE

AMENDING SECTION 10.54.010 OF CHAPTER 10.54 OF TITLE 10 OF THE ROSEVILLE MUNICIPAL CODE REGARDING NUISANCE ABATEMENT.

CC #: 7405

File #: 0300

CONTACT: Paul Camilleri 774-5459 pcamilleri@roseville.ca.us

Reports / Requests

6.23. Out of State Travel - Fire Department

Memo from Fire Chief Rick Bartee and Administrative Analyst Katrina Rostam recommending Council approve out-of-state travel for the City Manager Rob Jensen to accompany Fire Department personnel, Fire Chief Rick Bartee, Division Chief Brian Diemer, and Administrative Analyst Katrina Rostam to the Commission on Fire Accreditation International Hearings in Orlando, Florida, March 14 - 17, 2016. During the hearings the CFAI Board of Directors will be considering the re-accreditation of the Roseville Fire Department. In 2005, the Roseville Fire Department achieved recognition as an Accredited Agency through the Center for Public Safety Excellence (CPSE), Commission on the Fire Accreditation International. Subsequently, the Fire Department was re-accredited in 2010, and has continued to submit Annual Compliance Reports as required by the CPSE. The Fire Department's second five year accreditation period is coming to an end and staff has been working diligently to secure a third five year accreditation. The approximate cost for the City Manager to attend the Commission on Fire Accreditation International Hearings is \$1,429.00, these funds are allocated in the Fire Department's current fiscal year budget.

CC #: 7418

File #: 0600-02

CONTACT: Katrina Rostam 774-5848 krostam@roseville.ca.us

Ceremonial Documents

6.24. Resolution of Commendation and Appreciation to Anthony L. Owens

Anthony L. Owens be commended for his outstanding service and dedication to the City of Roseville, congratulated for his many accomplishments, and wished a long, healthy, and enjoyable retirement.

CC #: 7419

File #: 0102-10

CONTACT: Heather Blanco 774-5265 hblanco@roseville.ca.us

Motion by Roccucci, seconded by Gore, to approve the Consent Calendar as recommended.

Roll call vote: Ayes: Gore, Rohan, Roccucci, Garcia

Noes: None

Absent: Herman

END OF CONSENT CALENDAR

7. ORDINANCES

7.1. Roseville Police Association - Memorandum of Understanding

Memo from Human Resources Director Gayle Satchwell recommending Council adopt RESOLUTION NO. 16-36 APPROVING A MEMORANDUM OF UNDERSTANDING BETWEEN CITY OF ROSEVILLE AND THE ROSEVILLE POLICE ASSOCIATION AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF

ROSEVILLE; and adopt the allocation schedules; and adopt ORDINANCE NO. 5627 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE; and adopt ORDINANCE NO. 5628 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5581, THE SALARY ORDINANCE FOR ROSEVILLE POLICE ASSOCIATION NON-SWORN EMPLOYEES REPRESENTED BY THE ROSEVILLE POLICE ASSOCIATION, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE FEBRUARY 6, 2016 AS AN URGENCY MEASURE. The City has completed negotiations with the Roseville Police Association and brings to Council a successor labor agreement for approval. The total General Fund costs of this three year contract are \$585,184.00.

CC #: 7416

File #: 0201-01 & 0600-01

CONTACT: Gayle Satchwell 774-5374 gsatchwell@roseville.ca.us

Human Resources Director Gayle Satchwell made the presentation to Council.

Rob Baquera, President of the Roseville Police Association, spoke in support.

Motion by Gore, seconded by Roccucci, to adopt RESOLUTION No. 16-36 APPROVING A MEMORANDUM OF UNDERSTANDING BETWEEN CITY OF ROSEVILLE AND THE ROSEVILLE POLICE ASSOCIATION AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE;

and,

adopt the allocation schedules;

and,

adopt ORDINANCE NO. 5627 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE;

and,

adopt ORDINANCE NO. 5628 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5581, THE SALARY ORDINANCE FOR ROSEVILLE POLICE ASSOCIATION NON-SWORN EMPLOYEES REPRESENTED BY THE ROSEVILLE POLICE ASSOCIATION, AS AMENDED BY APPENDIX 'A' TO BE EFFECTIVE FEBRUARY 6, 2016 AS AN URGENCY MEASURE.

Roll call vote: Ayes: Gore, Rohan, Roccucci, Garcia

Noes: None

Absent: Herman

7.2. International Union of Operating Engineers, Stationary Engineers, Local 39 - Memorandum of Understanding

Memo from Human Resources Director Gayle Satchwell recommending Council adopt RESOLUTION NO. 16-35 APPROVING THE MEMORANDUM OF UNDERSTANDING BETWEEN CITY OF ROSEVILLE AND INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY ENGINEERS, LOCAL 39 AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt the allocation schedules; and adopt ORDINANCE NO. 5625 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE; and adopt ORDINANCE NO. 5626 OF THE

COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5545, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY THE INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY ENGINEERS, LOCAL 39, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE FEBRUARY 6, 2016, AS AN URGENCY MEASURE. The City has completed negotiations with Local 39 and brings to Council a successor labor agreement for approval. The total General Fund costs of the three year contract are \$1,565,376.00 and the total Enterprise Fund costs for the three year contract are \$803,019.00 for a total of \$2,368,395.00.

CC #: 7414

File #: 0201-01 & 0600-01

CONTACT: Gayle Satchwell 774-5374 gsatchwell@roseville.ca.us

Human Resources Director Gayle Satchwell made the presentation to Council.

No public comment received.

Assistant City Manager Dominick Casey summarized an email questions regarding labor market adjustments submitted by Jackie Demuth.

Motion by Gore, seconded by Roccucci, to adopt RESOLUTION NO. 16-35 APPROVING THE MEMORANDUM OF UNDERSTANDING BETWEEN CITY OF ROSEVILLE AND INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY ENGINEERS, LOCAL 39 AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE;

and,

adopt the allocation schedules;

and,

adopt ORDINANCE NO. 5625 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENT TO THE 2015-16 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE;

and,

adopt ORDINANCE NO. 5626 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 5545, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY THE INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY ENGINEERS, LOCAL 39, AS AMENDED BY APPENDIX "A" TO BE EFFECTIVE FEBRUARY 6, 2016, AS AN URGENCY MEASURE.

Roll call vote: Ayes: Gore, Rohan, Roccucci, Garcia

Noes: None

Absent: Herman

8. SPECIAL REQUESTS/REPORTS/PRESENTATION

8.1. 800MHz Radio System Replacement

Memo from Information Technology Analyst Karl Grover and Chief Information Officer Hong Sae recommending Council approve the release of a Request for Proposal (RFP) for the 800 megahertz (MHz) radio system replacement project. The City's primary voice communication system, the 800 MHz radio system, will no longer be supported on December 31, 2018. In order to maintain reliable service levels as well as staff safety and the public's safety, the 800MHz radio system needs to be replaced. Staff has performed due diligence with internal and external resources and is ready to move forward with releasing a RFP to implement a radio system that accommodates the City's

needs well into the future. Estimated project cost is between \$5,625,000.00 and \$7,325,000.00.

CC #: 7391

File #: 0800-05

CONTACT: Karl Grover 774-5145 kgrover@roseville.ca.us

Chief Information Officer Hong Sae made the presentation to Council.

Chief Information Officer Hong Sae introduced Assistant Information Technology Director Infrastructure Tom Pelster, Information Technology Network Analyst Karl Grover, and Police Services Administrator Katie Braverman,

Information Technology Network Analyst Karl Grover continued the presentation to Council.

Police Services Administrator Katie Braverman continued the presentation to Council

Assistant Information Technology Director Infrastructure Tom Pelster continued the presentation to Council.

Chief Information Officer Hong Sae continued the presentation to Council.

No public comment received.

Motion by Roccucci, seconded by Gore, to approve the release of a Request for Proposal for the 800 megahertz radio system replacement project.

Roll call vote: Ayes: Gore, Rohan, Roccucci, Garcia

Noes: None

Absent: Herman

8.2. FY2016-17 Budget Update

Memo from Finance Director Monty Hanks recommending Council accept the FY2016-17 Budget Update. The FY2016-17 budget preparation is underway and staff wants to keep the City Council informed with various budget related information and estimates as they become available. The updates are intended to solicit input and feedback from Council to ensure staff prepares their budgets that are inline and support Council goals and priorities outlined during the budget workshop. This is an informational item and has no fiscal impact.

CC #: 7415

File #: 0201

CONTACT: Monty Hanks 774-5313 mhanks@roseville.ca.us

Finance Director Monty Hanks made the presentation to Council.

No public comment.

For information only. No action taken.

9. **COUNCIL / STAFF / REPORTS/ COMMENTS**

NCPA Strategic Workshop – Councilmember Roccucci, Councilmember Gore and Mayor Garcia reported on attendance.

Sacramento Area Council of Governments (SACOG) – Council congratulated Vice Mayor Rohan on her appoint as the 2016 SACOG Board Chair.

California Municipal Utilities Association – Vice Mayor Rohan and Mayor Garcia reported on attendance.

10. ADJOURNMENT

Motion by Gore, seconded by Roccucci, to adjourn the meeting at 7:45 p.m.

CAROL GARCIA, MAYOR

SONIA OROZCO, CMC
CITY CLERK



COUNCIL COMMUNICATION

CC #: 7487
File #: 0800-01

Title: Request for Proposal Policy
Contact: Shannon Wiest 774-5705 swiest@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 9.1.

RECOMMENDATION TO COUNCIL

Recommend Council adopt a resolution approving the RFP Policy.

BACKGROUND

Request for Proposals (RFP) is a competitive proposal process used by City staff to solicit proposals from potential proposers. The RFP process is used for requirements in which the desired outcome is known, but it is difficult to define the methodology or the exact materials or services required to achieve the desired results. This policy will provide a uniform process for the issuance, evaluation, and selection of competitive proposals for services and/or customized goods. In preparing this policy, staff surveyed 6 neighboring agencies regarding their RFP policies: Citrus Heights, Lincoln, Placer County, Rocklin, Sac County, and Sac City. Findings were that the majority of these agencies have formal RFP policies that include both a protest policy and a process for releasing score sheets. Currently City staff uses a standardized process for RFP's that includes mandatory templates with detailed instructions for both staff and proposers, as well as the Purchasing Guidelines. RFP's are reviewed and approved by both the end using Department Director and the City Attorney's office.

The recommended RFP policy is consistent with the survey of surrounding agencies and best practices. The recommended RFP Policy will formalize the City's current process with several modifications and added clarity as follows:

1. Should the scope of work of any RFP increase by twenty-five percent (25%) or more after the RFP is published, the RFP will be withdrawn, proposals rejected and a new, all-inclusive RFP will be issued.
2. A master averaged score sheet shall be created based on the evaluation panel's initial evaluation of the proposals. Proposals shall be scored according to the criteria stated in the RFP.
3. Interviews during RFP selection are optional; however, if the City elects to conduct interviews with any proposers, the following criteria will be used to establish a ranking of the proposers by the

evaluation panel during the interview process: (1) quality of presentation, (2) ability to meet the City's business goals, and (3) communication style.

4. A master averaged score sheet of proposers from the initial evaluation and the ranking of proposers from any interview will be released upon request after: (1) the proposal evaluation process is complete, (2) a contract has been negotiated, and (3) notice of intent to award has been made and/or the contract is placed on a City Council meeting agenda (individual score sheets and/or notes are temporary and are not retained following a determination of the evaluation panel).

5. Language modifications have already been made to the RFP templates to clarify that the City reserves the right to award a contract to multiple proposers when applicable and that no local preference will be given.

6. A formal notice of the intent to award to the recommended proposer(s) shall be made by the Department and issued to all proposers.

7. Protest policy with details on requirements, grounds for protest, the review process and stay of action have been established.

The draft policy was presented to stakeholders through both a vendor outreach workshop and a meeting with department heads and the feedback has been positive. In anticipation of coming to Council with this new policy and based on previous recommendations and direction from Council to analyze our existing RFP policy to make us consistent with our neighbors, we have begun the process of training staff to ensure that any RFP policy which is approved by Council is implemented immediately upon approval by Council.

FISCAL IMPACT

The proposed RFP Policy largely memorializes existing practices and so there is no fiscal impact from enacting this policy.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not applicable

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15061(b)(3). Adoption of the recommended RFP policy does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Shannon Wiest, Purchasing and Warehouse Manager

Paul Diefenbach, Central Services Director



Rob Jensen, City Manager

ATTACHMENTS:

Description

Resolution No. 16-70

RFP Policy

RFP Policy Presentation

RESOLUTION NO. 16-70

ADOPTING A REQUEST FOR PROPOSALS (RFP) POLICY

WHEREAS, Request for Proposals (RFP) is a competitive proposal process used by City staff to solicit proposals; and

WHEREAS, staff is recommending an RFP policy that is consistent with best practices; and

WHEREAS, the draft policy was presented to stakeholders through a vendor outreach workshop and the feedback has been positive;

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said RFP Policy is hereby adopted.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

1.0 REQUEST FOR PROPOSAL (RFP)

The purpose of this policy is to provide a uniform process for the issuance, evaluation, and selection of competitive proposals for services and/or customized goods.

1.1 Definition

Request for Proposals (“RFP”) is a competitive proposal process whereby the City solicits proposals from potential proposers. The RFP process is used for requirements in which the desired outcome is known, but it is difficult to define the methodology or the exact materials or services required to achieve the desired results.

Objectives of the RFP process are to:

- (a) Describe the City’s requirements and desired outcomes within a written specification;
- (b) Solicit proposers for their proposed solutions;
- (c) Describe key criteria to be used in the evaluation of proposals;
- (d) Outline the terms and conditions under which the proposer(s) will operate or supply goods and/or services.

The City should use its best efforts to ensure that any RFP is as complete and thorough as possible, however should the scope of work or services of any RFP increase by twenty-five percent (25%) or more after publishing the RFP, that RFP should be withdrawn and any proposals rejected and a new RFP should be issued that includes the increased scope of work or services.

1.2 Use of an RFP

Contracts for goods or services with an estimated value greater than the amount stated in Roseville Municipal Code (“RMC”) Sections 4.12.090 and 4.12.095 must be awarded by the use of competitive bids or an RFP, unless exempted by the City Council or law. Contracts for goods or services estimated to be equal or less than the amount stated in RMC Sections 4.12.090 and 4.12.095 may be awarded upon conclusion of informal interviews by representatives of the initiating department and other City staff, including the Purchasing Division (“Purchasing”), or by an RFP, as may be appropriate.

Notwithstanding the foregoing, qualifying goods or services may be procured without issuing a RFP. A qualifying good or service is one where there is only a single source for obtaining the particular good and/or service. Examples of sole source goods or services include, but are not limited to, patented, copyrighted, licensed items, specialized test equipment/facilities, critical schedule requirements, unique services, and standardized goods or services for which there is only a single source. Prior to contracting with a sole

source, the initiating department shall complete the sole source authorization form. Furthermore, with respect to professional services with an estimated amount exceeding the amount stated in RMC Sections 4.12.090 and 4.12.095, such services may not be procured through sole source without the prior authorization of the City Manager and City Attorney.

1.3 Public Notice

Public notice of the RFPs shall be given in the same manner as provided in RMC Section 4.12.090.

The originating department (“Department”) should also generate a list of potential proposers to notify and direct them to the RFP section of the City’s website to access the RFP.

1.4 Form of Proposal

- a) City staff must use the City’s latest version of the RFP template for the initial framework of the document and the City’s Purchasing Guidelines should also be referred to. The RFP content should define the Department’s needs and describe the scope of the work, allowing the potential proposer to develop the project details.
- (b) Late proposals shall not be accepted, however staff may extend the time for submission of all proposals.
- (c) Each proposal must be signed by an authorized representative of the proposer and include the legal name of the proposing organization and the signer’s title. By signing the proposal it is presumed that the signer has authority to bind the proposer to the proposal’s terms.
- (d) RFPs are scored based on the criteria presented in the RFP. Proposers may propose any method or process to satisfy the scope of work in the RFP that maximizes responsiveness to the criteria stated in the RFP.

1.5 Evaluation Factors

Award of a RFP shall be made to the responsible proposer whose proposal is determined, through a formal evaluation panel process, to be the most advantageous to the City after the evaluation panel has taken into consideration the evaluation factors set forth in the RFP. A master averaged score sheet shall be created based on the evaluation panel’s initial evaluation. Proposals shall be scored according to the criteria stated in the RFP.

Proposals submitted will be reviewed by an evaluation panel. Members of the evaluation panel shall be comprised of City staff and at the option of City may include non-City staff upon approval of the City Manager and City Attorney. After the initial evaluation, proposers that have submitted the best and most complete proposals may be invited to

one or more interviews. The number of proposers invited to an interview may vary depending upon the number of proposals submitted.

The RFP may indicate the relative importance of evaluation factors. The following are representative evaluation criteria that may be considered by the Department when preparing a RFP:

- (a) Reputation and Experience. Does the proposer have a reputation of being reliable, delivering on schedule, and performing tasks to the satisfaction of his / her clients? Does the proposer have sufficient experience in the kind of work required?
- (b) Capability and Availability of Staff. Does the proposer have qualified and experienced staff needed to perform the work?
- (c) Understanding of the Problem. Does the proposer demonstrate a thorough understanding of the issues and has it developed a relevant and effective approach?
- (d) Proximity of the Proposer. Although no preference shall be given to local businesses, proposer's office and / or staff proximity to City of Roseville offices or work location as it relates to the proposer's ability to be responsive to the project requirements may be considered.
- (e) Cost. Whenever possible and appropriate, a proposer's fee or hourly rate should be secured as part of the proposal and considered in the evaluation process. Whenever possible, RFPs should specify methods of submitting proposed costs that can be compared directly with competing proposals.

The City reserves the right to make a selection without interviews; therefore, the proposal should be submitted on the most favorable terms that the proposer might propose.

Should the City elect to conduct interviews with any proposers, the following criteria shall be considered and each proposer ranked by the evaluation panel during the interview process:

- a) Quality of presentation
- b) Ability to meet the City's business goals
- c) Communication style

A contract will be negotiated with the proposer considered best meeting the City's need for the project. In the event a mutually satisfactory contract cannot be negotiated with the City's first choice, negotiations may be terminated and commenced with the proposer considered next best in meeting the City's needs for the particular project.

The selected proposer will be required to execute a City prepared contract. The contract may further refine the scope of services and will provide for the terms and conditions of employment.

Evaluation Score Sheets. Upon a request pursuant to section 1.8 below, a proposer is entitled to a master averaged score sheet that reflects the averaged evaluation scores of the proposers during the evaluation panel's initial evaluation and the ranking of proposers from any interview (individual score sheets and/or notes are temporary and are not retained following a determination of the evaluation panel). The master score sheet and ranking shall be prepared by City staff prior to notifying any proposers of the results.

1.6 Discussions with Proposers and Revisions to Proposals

- (a) As provided in the RFP, discussions may be conducted with responsible proposers. These discussions shall be for the purpose of clarification to assure full understanding of, and responsiveness to the solicitation requirements. The proposers shall be accorded fair and equal treatment with respect to any opportunity for discussion and revision of proposals, and such revisions may be permitted prior to the evaluation panel's determination of the award recommendation for the purpose of obtaining best and final proposals. In conducting discussions, there shall be no disclosure of any information derived from proposals submitted by competing proposers.
- (b) After the evaluation panel has determined the proposer(s) to be recommended for award, the Department may enter negotiations with the recommended proposer(s) to finalize proposed services and price before the evaluation panel's formal notice of intent to award is made.

1.7 Award Process

- (a) The award is made to the proposer(s) that is determined to best meet the overall needs of the City. For contracts for goods or services with an estimated value greater than the amount stated in RMC Sections 4.12.090 and 4.12.095, the award of such contract is expressly contingent upon City Council approval and the availability of funds. City staff may not legally bind the City to a contract with an estimated value greater than the amount stated in RMC Sections 4.12.090 and 4.12.095.
- (b) Rejection of RFP. The City reserves the right to reject any or all proposals, to waive defects or irregularities in any proposal or in the RFP process, and to offer to negotiate or contract with any proposer(s) in response to any RFP. RFPs do not constitute any form of offer to contract.
- (c) Multiple Award. The City reserves the right to award the contract to multiple proposers when applicable.
- (d) A formal notice of the intent to award to the recommended proposer(s) shall be made by the Department.

1.8 Public Disclosure

In accordance with the California Public Records Act, proposals submitted in response to a RFP, master averaged score sheets from the initial evaluation, and/or rankings from any interview shall be made available upon a public records request only after: (1) the proposal evaluation process is complete, (2) a contract has been negotiated, and (3) notice of intent to award has been made and/or the contract is placed on a City Council meeting agenda.

1.9 Protests

(a) Protest Requirements

- (1) Any proposer who is aggrieved in connection with the solicitation or award of a contract may file a protest with the City Clerk's office. The protest must be received in writing by the City Clerk's office within seven (7) calendar days after such aggrieved proposer 1) knows or should have known of the facts giving rise thereto or 2) the date of the notice of intent to award, whichever is sooner. In no event shall a protest be allowed after an award has been made by City Council. If the seventh calendar day falls on a weekend or City holiday, the protesting party may submit the protest prior to close of business on the first business day following such weekend or holiday. Failure to submit a timely protest shall bar consideration of a protest.
- (2) RFPs must include a notification to prospective proposers of this protest policy.
- (3) Departments must notify and consult with Purchasing and the City Attorney's Office immediately upon becoming aware of any potential or actual protest. In the event of a proper protest, the RFP process shall be stayed pursuant to Section 1.9 (d) of this Policy.

(b) Grounds for Protest

- (1) The alleged grounds for protest shall be limited to the following: (a) computation errors, (b) violations of local, state, or federal law, or (c) the City failed to follow the procedures specified in this Policy.
- (2) The protest shall state all grounds claimed for the protest and include supporting documentation. Failure to clearly state the grounds for the protest and provide supporting documentation shall be deemed a waiver of all protest rights.

(c) Administrative Review

Upon receipt of the protest in accordance with Section 1.9 (a), and after determining the protest was properly filed, the Department Director shall provide a copy of the protest to other proposers who might become aggrieved as a result of the protest and issue a written decision within fourteen (14) calendar days after receipt of the protest. The protest will be evaluated by the Department Director, the City Attorney's Office,

and the Purchasing Manager. The protesting proposer shall promptly provide any information requested by City staff as part of such investigation. The decision shall either deny or uphold the protest and include reasons for the decision. The written decision shall be final.

(d) Stay of Action During a Protest

In the event a protest is filed under Section 1.9, the City shall not proceed further with the award of the contract until the protest is resolved, unless:

- (1) The Director of Central Services makes a determination that the award of the contract without delay is necessary to protect a substantial interest of the City, or
- (2) The City decides to reject all proposals and issue a new RFP.



COUNCIL COMMUNICATION

CC #: 7482
File #: 0800-02

Title: Water Efficient Landscape Ordinance Amendment
Contact: Derek Ogden 746-1348 dogden@roseville.ca.us
Bobby Alvarez 774-1710 balvarez@roseville.ca.us

Meeting Date: 3/2/2016
Item #: 10.1.

RECOMMENDATION TO COUNCIL

The Public Utilities Commission and Planning Commission recommend the City Council consider, accept public testimony, and take the following actions:

- A. Repeal Chapter 19.67 of the Roseville Municipal Code (RMC) relating to Water Efficient Landscaping;
- B. Adopt the proposed Ordinance creating Chapter 14.18 of the Roseville Municipal Code (RMC), relating to water efficient landscaping.

BACKGROUND

Given recent legislation and state oversight of the City's water conservation efforts, the revised Water Efficient Landscape Ordinance (WELO) is proposed to be incorporated into Title 14 (Public Utilities) of the RMC. The proposed WELO will respond to state legislation mandating stricter requirements for reducing landscape irrigation, water consumption and waste.

The current Water Efficient Landscape Ordinance (WELO) was adopted by the Council in 2009, and has been updated twice to reflect changing legislative requirements from the State to aid in water conservation efforts. The first amendment to the WELO was adopted in June of 2013. This amendment was intended to clarify the types of controllers to be installed in residential applications. On April 2, 2014, the City Council adopted the second amendment to the current WELO. This amendment sought to improve the irrigation efficiency in residential production home landscaping.

Current Legislation

Governor Brown's Drought Executive Order of April 1, 2015 (EO B-29-15) directed the Department of Water Resources (DWR) to update the State's Model Water Efficient

Landscape Ordinance (MWELo) through expedited regulation. The California Water Commission approved a revised MWELo on July 15, 2015 with five errata sections. DWR issued the finalized MWELo in September of 2015.

The updated model ordinance contains several new landscape and irrigation design requirements aimed at reducing water waste in landscape irrigation. All local land use agencies were required to adopt the model ordinance, or develop an ordinance that is at least as effective by December 1, 2015. The DWR model ordinance automatically became effective on December 1st by statute. For reasons cited below, staff is modifying the current City WELo so that it meets the City's needs and is at least as effective as the model ordinance. The revised ordinance will supersede the City's existing code. Additional background and detail on the required changes are provided below.

PROPOSED WELo MODIFICATIONS

The proposed ordinance addresses the objectives of the DWR model ordinance by incorporating the new water efficient landscape requirements into Chapter 14.18 of the RMC. The items noted below are new requirements mandated by the DWR MWELo. Many of these measures are already required in some form by the City, or are considered industry best practices and are already being implemented by landscape architects and contractors.

More efficient irrigation systems

- Dedicated landscape water meters or sub-meters are required for residential landscapes over 5000 sq. ft. and non-residential landscapes over 1000 sq. ft.
- Irrigation systems are required to have pressure regulators and master shut-off valves.
- All irrigation emission devices must meet the national standard stated in the MWELo to ensure that only high efficiency sprinklers are installed.
- Flow sensors that detect and report high flow conditions due to broken pipes and/or popped sprinkler heads are required for landscape areas greater than 5000 sq. ft.
- The minimum width of areas that can be irrigated with overhead spray was changed from 8 feet to 10 feet; areas less than 10 feet wide must be irrigated with subsurface drip or other technology that produces no over spray or runoff.
- Audits are required on 15% of the landscape irrigation stations installed. This would equal about 1 in every 7 homes for new subdivisions within the City.

Limiting the use of high water requiring plants

- The maximum amount of water that can be applied in landscapes was reduced for both residential and non-residential projects. This water allowance reduces the landscape area that can be planted with high water use plants such as cool season turf.
- In non-residential landscapes, planting with high water use plants would not comply with the new ordinance. However, extra water allowance is made for landscapes irrigated with recycled water, as was the case in the previous ordinance.
- Median strips cannot be landscaped with high water use plants, precluding the use of cool season turf. Also because of the requirement to irrigate areas less

than ten feet wide with subsurface irrigation or other means that produces no runoff or overspray, the use of cool season turf in parkways will be limited.

Reporting requirements

All local agencies had to report on the implementation and enforcement of their ordinances to DWR by December 31, 2015. Reporting for all agencies will be due by January 31st of each year thereafter.

Applicability

The proposed Water Efficient Landscape Ordinance will apply to the following landscape projects:

- New Construction and Rehabilitated projects requiring a building permit, plan check, or Design Review Permit.
- Developer or Home-Owner provided landscaping less than 2,500 square feet (of planting area) in single-family residential projects (attached or detached) that require a building permit, plan check or Design Review Permit may comply with the prescriptive measures including the following:
 - o Incorporate compost within the soil;
 - o Install climate adapted plants;
 - o Install a minimum of three inch layer of mulch;
 - o Turf shall not comprise greater than 25 percent of the planting area;
 - o The irrigation system shall be operated by an automatic controller and must use either evapotranspiration or soil moisture data and a rain sensor. The controller must also be programmable to eight stations;
 - o Landscape areas less than 10 feet in width shall utilize subsurface irrigation or drip irrigation;
 - o An irrigation schedule shall be provided to the new homeowner; and
 - o Audits shall be provided on 1 in 7 lots or 15% of valves within a landscape.

MONITORING AND ENFORCEMENT

The State's MWELO contains provisions that statutorily require local agencies to monitor landscape water use and ensure compliance with the water efficient landscape ordinance. The new MWELO and proposed City Ordinance contain provisions for irrigation audits to be performed on 15% of the irrigation valves within a landscape project or 1 in 7 production homes prior to a certificate of compliance or occupancy being issued by the City's Building Division. The applicant of the project will be required to hire a third party certified auditor to perform the audit which will be reviewed by the City's Environmental Utilities Division.

The Planning Division will continue to require that construction plans comply with ordinance requirements during plan check and will rely on the assistance of Environmental Utilities plan review staff to assist with this task. Environmental Utilities will verify compliance in the field during site inspections for final occupancy of non-residential and multi-family projects. The Building Department will be responsible for verifying general compliance during single-family residential inspections, as the Planning Division does not inspect single family dwellings.

Post-construction enforcement will fall to the City's Water Conservation Division within the Environmental Utilities Department (EUD), which also enforces the provisions of the City's Water Conservation Ordinance. EUD monitors irrigation water use through monthly billing cycles and will compare a site's actual water use against its approved irrigation water budget. Where a property exceeds its established water budget, EUD staff will take steps to notify the property owner that

corrective action is needed.

Compliance with the WELO ordinance will continue to rely on self-certification by landscape architects and landscape installers, who will be required to sign affidavits verifying that the landscaping has been designed and installed to comply with the ordinance. Self-certification is effective, as it requires licensed professionals to sign against their license, who could then be subject to disciplinary procedures through their respective license governing boards. As mentioned above, auditing will also be implemented moving forward to better demonstrate compliance with the proposed WELO during installation of new and rehabilitated landscape projects.

COMMISSION DISCUSSION

Planning and Environmental Utilities Staff presented the proposed Ordinance Amendments to the Public Utilities Commission on January 26th and the Planning Commission on January 28th. No public comment was received at either public hearing. Both Commissions recommended approval of the proposed Amendments.

As an item of note, the Public Utilities Commission wanted to ensure that City Staff provide outreach to the City's residents regarding small landscape projects. The Commission wished to make it clear that if a landscape project does not require a building permit, plan check or Design Review Permit the project will not need to comply with the City's WELO. Moving forward, City staff will utilize the appropriate communications channels to relay this message to the residents.

CONCLUSION

Adoption of the proposed WELO is necessary to comply with recent legislation requiring more stringent standards for landscape irrigation. The proposed ordinance responds to the State's mandate to adopt requirements that are at least as effective as the state model ordinance. Lastly, the proposed ordinance is easier to interpret and administer than the state model ordinance. Therefore, the Public Utilities Commission and Planning Commission recommend that the City Council repeal Zoning Ordinance Chapter 19.67 which will be replaced by the proposed Public Utilities Chapter 14.18.

FISCAL IMPACT

There will be additional staff costs to the City's Development Services and Environmental Utilities Departments in order to implement the new requirements that are mandated by the State of California. In addition, there will be costs incurred by the development community to install the required irrigation systems and improvements and to audit their landscape projects. The amount of fiscal impact is difficult to quantify at this time.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not applicable

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §15061(b)(3)). The City of Roseville WELO Amendment project does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Derek Ogden, Senior Planner

Kevin Payne, Development Services Director

A handwritten signature in blue ink, appearing to read 'Rob Jensen', with a long horizontal flourish extending to the right.

Rob Jensen, City Manager

ATTACHMENTS:

Description

Attachment 1 - Redline Strikeout Ordinance

Exhibit A - First Reading of Ordinance

CHAPTER 14.189.67 – WATER EFFICIENT LANDSCAPING

Section 149.1867.010 - Purpose

- A. Intelligent design and water management can enable citizens of Roseville to enjoy a well landscaped community, while at the same time conserving resources. Skillful planting and irrigation design, appropriate use of plants, and intelligent landscape management, can ensure that excessive water demands are reduced and allow the community to be less vulnerable during periods of severe drought. Efficient design practices such as: irrigation systems that apply water at a usable rate within the root zone of the plants, automatic irrigation controllers that allow early morning watering when there is less heat and wind allowing more efficient irrigation, and properly maintained moisture sensors that override automatic irrigation when the soil is already moist or wet are all measures that can reduce water demands, yet at the same time provide sufficient moisture to maintain the City's climate-appropriate landscaping.
- B. The purpose of these requirements is to comply with the Water Conservation in Landscaping Act of 2006, Government Code Sections 65591 et. seq, and to define the standards and procedures for the design, installation, and management of landscaping. This is intended to utilize available plant, water, land and human resources to the greatest benefit of Roseville residents. Water resources are a finite resource. Therefore, in times of water shortages, water cutbacks may be required, combined with limits to landscaping installation and water usage, as specified in the Roseville Municipal Code Chapter 14.09 (Water Conservation).
- C. Landscapes that are planned, designed, installed, managed and maintained with the watershed based approach can improve California's environmental conditions and provide benefits and realize sustainability goals. Such landscapes will make the urban environment resilient in the face of climatic extremes. Consistent with the legislative findings and purpose of the Ordinance, conditions in the urban setting will be improved by:
- Creating the conditions to support life in the soil by reducing compaction, incorporating organic matter that increases water retention, and promoting productive plant growth that leads to more carbon storage, oxygen production, shade, habitat and esthetic benefits.
 - Minimizing energy use by reducing irrigation water requirements, reducing reliance on petroleum based fertilizers and pesticides, and planting climate appropriate shade trees in urban areas.
 - Conserving water by capturing and reusing rainwater and graywater wherever possible and selecting climate appropriate plants that need minimal supplemental water after establishment.
 - Protecting air and water quality by reducing power equipment use and landfill disposal trips, selecting recycled and locally sourced materials, and using compost, mulch and efficient irrigation equipment to prevent erosion.
 - Protecting existing habitat and creating new habitat by choosing local native plants, climate adapted non-natives and avoiding invasive plants. Utilizing integrated pest management with least toxic methods as the first course of action.

(Ord. ~~????4786~~(part), ~~2009~~.)

Section 149.1867.020 - Authority and Relationship to other Documents

- A. **Consistency with specific plans and other design guidelines.** Landscape and irrigation plans shall be designed consistent with this Chapter and any adopted specific plans or other planning area design guidelines, if applicable. Where any inconsistencies arise between this Chapter and other adopted policy documents, the more restrictive requirement shall govern, the only exception being for the West Roseville Specific Plan Village Center. Due to its unique nature, the West Roseville Specific Plan Design Guidelines shall guide landscape design for the remaining

undeveloped properties within the Village Center boundaries, as depicted in the West Roseville Specific Plan.

- B. Water use consumption information for specific plant species. Should conflicts arise between the water use information contained in the Water Use Classification of Landscape Species publication, as defined in Section 19.67.040, and the Specific Plan or planting area design guidelines, the Water Use Classification of Landscape Species publication shall govern.

(Ord. 4786 (part), 2009.)

Section ~~149.1867~~.030 - Applicability

- A. The provisions of this Chapter shall apply to all of the following landscape projects:

1. New Construction and Rehabilitated Projects. New construction and rehabilitated landscape projects requiring a building permit, plan check or Design Review Permit (DRP). ~~Public Agency and Non-Residential Projects.~~ ~~New construction and rehabilitated landscaping for public agency projects and private development projects.~~
- ~~2. Developer-Installed Landscaping Exceeding 2,500 Square Feet in Single-Family Residential Projects.~~ ~~New construction and rehabilitated landscaping which is developer-installed in single-family projects with a landscape area equal to or greater than 2,500 square feet requiring a building permit, improvement plan approval, or design review.~~
32. Developer-Installed or Homeowner Provided Landscaping Less than 2,500 Square Feet in Single-Family Residential Projects. Any new or rehabilitated single-family or two-family landscape project that is developer installed or homeowner provided with an aggregate landscape area of 2,500 square feet or less requiring a building permit, plan check or DRP, may comply with the performance requirements of this ordinance or conform to the prescriptive measures contained below.
~~Developer-Installed Landscaping Less than 2,500 Square Feet in Single-Family Residential Projects.~~ ~~New construction and rehabilitated landscaping which is developer-installed in single-family projects with a landscape area less than 2,500 square feet shall be required to comply only with the following:~~
 - ~~A.~~ Compliance with the following items is mandatory and must be documented on a landscape plan in order to use the prescriptive compliance option:
 - (A) date
 - (B) project applicant
 - (C) project address (if available, parcel and/or lot number(s))
 - (D) total landscape area (square feet), including a breakdown of turf and plant material
 - (E) project type (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed)
 - (F) water supply type (e.g., potable, recycled, well) and identify the local retail water purveyor if the applicant is not served by a private well
 - (G) contact information for the project applicant and property owner
 - (H) applicant signature and date with statement, "I agree to comply with the requirements of the prescriptive compliance option to the MWELO".
 - (2) Incorporate compost at a rate of at least four cubic yards per 1,000 square feet to a depth of six inches into landscape area (unless contra-indicated by a soil test);
 - (3) Plant material shall comply with all of the following;

(A) Install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 75% of the plant area excluding edibles and areas using recycled water;

(B) A minimum three inch (3") layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.

(4) Turf shall comply with all of the following:

(A) Turf shall not exceed 25% of the landscape area;

(B) Turf shall not be planted on sloped areas which exceed a slope of 1 foot of vertical elevation change for every 4 feet of horizontal length;

(C) Turf is prohibited in parkways less than 10 feet wide, unless the parkway is adjacent to a parking strip and used to enter and exit vehicles. Any turf in parkways must be irrigated by sub-surface irrigation or by other technology that creates no overspray or runoff.

(5) Irrigation systems shall comply with the following:

(A) Automatic irrigation controllers are required and must use evapotranspiration or soil moisture sensor data and utilize a rain sensor.

(B) Irrigation controllers shall be of a type which does not lose programming data in the event the primary power source is interrupted.

(C) Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturers recommended pressure range.

(D) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be installed as close as possible to the point of connection of the water supply.

(E) All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC 802-2014. "Landscape Irrigation Sprinkler and Emitter Standard," All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.

(F) Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.

(6) At the time of final inspection, the permit applicant must provide the owner of the property and City with a certificate of completion, certificate of installation, irrigation schedule and a schedule of landscape and irrigation maintenance.

~~Turf shall not comprise greater than 50 percent of the front yard planting area of developer installed single family landscaping.~~

~~b. The irrigation system shall be operated by a weather-based irrigation controller, soil moisture-based controller, or other self-adjusting irrigation controller that automatically adjusts irrigation in response to changes in plants' needs and as weather conditions change as referenced in the California Green Building Standards Code, as amended. Controller must have a minimum of 6 stations or be upgradable to 6 stations or more. An exception for additional stations may be provided for front yard landscapes that will be maintained by a homeowner's association.~~

~~c. Plants shall be selected and planted appropriately based upon their adaptability to the climatic, geologic and topographical conditions of the project site.~~

~~d. The irrigation system shall be designed to ensure that the dynamic pressure at each emission device is within the manufacturer's recommended pressure range for optimal performance.~~

~~1. If the static pressure is above or below the required dynamic pressure of the irrigation system, pressure regulating devices such as inline pressure regulators or other devices shall be installed to meet the required dynamic pressure of the irrigation system.~~

- e. ~~The irrigation system shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.~~
- f. ~~Sprinkler system shall have proper head to head coverage (water from one sprinkler overlaps all the way to the next sprinkler head). This helps to increase overall system efficiency and prevents dry spots in the landscape.~~
- g. ~~Low volume irrigation shall be used in mulched planting areas to maximize water infiltration into the root zone.~~
- h. ~~Sprinkler heads and other emission devices shall have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations. Sprinklers shall have head to head coverage so that water from one sprinkler overlaps all the way to the next sprinkler head to increase overall system efficiency.~~
- i. ~~Check valves (or anti-drain valves) are required for all irrigation systems. The check valves can be located under a sprinkler head or other location in the irrigation system to hold water in the system to prevent drainage from sprinkler heads when the sprinkler is turned off.~~
- j. ~~Slopes greater than 4:1 shall not be irrigated with an irrigation system with a precipitation rate exceeding 0.75 inches per hour. This restriction may be modified if the designer specifies an alternative design or technology and clearly demonstrates no runoff or erosion will occur.~~
- k. ~~Where feasible, trees shall be placed on separate valves from shrubs, groundcovers and turf.~~
- l. ~~An irrigation program shall be left for the buyer that provides a schedule for the plant establishment period, the established landscape, and temporarily irrigated areas (if any).~~
- m. ~~The irrigation system shall be tested and certified by a licensed landscape architect, irrigation designer, contractor or any other person authorized to design and install an irrigation system pursuant to Sections 5500.1, 5616, 5641 et seq, 6701, and 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agriculture Code.~~

~~**4. Multifamily Residential Projects.** All new construction and rehabilitated landscaping.~~

~~**5. Homeowner Provided Landscaping.** New construction or rehabilitated landscaping which are homeowner installed and/or homeowner hired in single family residential projects with a total project landscape area equal to or greater than 5,000 square feet requiring a building permit, improvement plan approval, or design review.~~

3. **Graywater.** For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2500 sq. ft. of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D section (5).

46. Existing Landscaping. Landscaping constructed prior to the effective date of the ordinance codified in this chapter and not rehabilitated shall only be required to comply with the requirements contained in Section 19.67.130.

57. Cemeteries. Recognizing the special landscape management needs of cemeteries, new and rehabilitated cemeteries shall only be required to comply with the requirements contained in Sections [1449.1867.050\(B\)\(2\)](#), [149.1867.070](#), and [1449.1867.080](#). Existing cemeteries shall comply with the requirements contained in Section [149.1867.130](#).

68. Homeowners Associations and Common Interest Developments. The architectural guidelines (i.e., CC&Rs) of a common interest development, which may include community apartment projects, condominiums, planned developments, stock cooperatives, or single-family subdivisions governed by a homeowners association shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group. Further, said guidelines shall not prohibit the removal of turf, nor restrict or prohibit the reduction of turf in lieu of more water efficient alternatives (Civil Code Section 1353.8).

B. The provisions of this chapter shall not apply to:

1. Registered local, state or federal historical sites;
2. Ecological restoration projects that do not require a permanent irrigation system;
3. Mined-land reclamation projects that do not require a permanent irrigation system; or
4. [Existing p](#)Plant collections, as part of botanical gardens and arboretums open to the public.

(Ord. 5481, 2015; Ord. 5321, 2014; Ord. 5186 § 1, 2013; Ord. 4786 (part), 2009.)

Section [149.1867.040](#) - Definitions

For the purposes of this Chapter, the following definitions shall apply:

“Applied Water” means the portion of water supplied by the irrigation system to the landscape.

“Backflow Prevention Device” means a safety device used to prevent pollution or contamination of the City water supply due to the reverse flow of water from the irrigation system.

“Check Valve or Anti-Drain Valve” means a valve located under a sprinkler head or other location in the irrigation system to hold water in the system to prevent drainage from sprinkler heads when the system is off.

“Conversion Factor (0.62)” means the number that converts acre-inches per acre per year to gallons per square foot per year.

“Certificate of Completion” means the document required under Section [19.67.060](#).

“Certified Landscape Irrigation Auditor” means a person certified to perform landscape irrigation audits by an accredited academic institution, a professional trade organization or other program such as the United States Environmental Protection Agency WaterSense irrigation auditor certification program, licensed landscape architect, and Irrigation Association Certified Landscape Irrigation Auditor program.

“Certified Irrigation Designer” means a person certified to design irrigation systems by an accredited academic institution, or a professional trade organization or other program such as the United States Environmental Protection Agency WaterSense irrigation designer certification program and Irrigation Association Certified Irrigation Designer program.

“Common Interest Developments” means community apartment projects, condominium projects, planned developments, and stock cooperatives per Civil Code Section 1353.8

“Compost” means the safe and stable product of controlled biologic decomposition of organic materials that is beneficial to plant growth.

“Controller” means an ~~automatic~~-timing device used to remotely control valves that operate an irrigation system. Automatic irrigation controllers are able to self-adjust and schedule irrigation events using either evapotranspiration (weather-based) or soil moisture data.
~~used to remotely control valves or heads to operate an irrigation system. A weather based controller is a controller that utilizes evapotranspiration or weather data to make adjustments to irrigation schedules. A self-adjusting irrigation controller is a controller that uses on-site sensor data (e.g., soil moisture) to adjust irrigation schedules.~~

“Distribution uniformity” means the measure of the uniformity of irrigation water over a defined area.

“Drip Irrigation” means any non-spray low volume irrigation system utilizing emission devices with a flow rate measured in gallons per hour. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.
~~any low volume irrigation system utilizing emission devices with a flow rate equal to or less than two (2) gallons per hour (including micro-spray systems).~~

“Ecological Restoration Project” means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.

“Effective Precipitation or Usable Rainfall (EPPT)” means the portion of total precipitation that is used by the plants.

“Emitter” means a drip irrigation emission device that delivers water slowly from the irrigation system to the soil.

“Environmental Utilities Department” means the Department within the City of Roseville that is responsible for providing utility service with the City. The Roseville water utility is a division within the Department responsible for providing retail water service.

“Established Landscape” means the point at which plants in the landscape have developed significant roots growth to support themselves. Typically, most plants are established after one (1) or two (2) years of growth.

“Establishment Period of the Plants” means the first year after installing the plant in the landscape, or the first two (2) years if irrigation will be terminated after establishment. Native habitat mitigation areas and trees may need three to five years for establishment.

“Estimated Total Water Use (ETWU)” means the annual total water used for the landscape as described in Section 149.18~~67~~.050(B)(2).

“Evapotranspiration (ET)” means the loss of water to the atmosphere by the combined processes of evaporation and transpiration.

“ET Adjustment Factor (ETAF)” means a factor of 0.70.55 for residential areas and 0.45 for non-residential areas, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape. ~~A combined plant mix with a site-wide average of 0.5 is the basis of the plant~~

~~factor portion of this calculation. For purposes of the ET Adjustment Factor, the average irrigation efficiency is 0.71. Therefore, the ET Adjustment Factor (0.7) = (0.5/0.71). The ETAF for a new and existing (non-rehabilitated) Special Landscape Area shall not exceed 1.0. The ETAF for existing, non-rehabilitated landscaping is 0.8.~~

“Evapotranspiration (ET) Rate” means the quantity of water evaporated from adjacent soil and other surfaces and transpired by plants during a specified time.

“Flow Rate” means the rate at which water flows through pipes, valves, and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.

“Flow sensor” means an inline device installed at the supply point of the irrigation system that produces a repeatable signal proportional to flow rate. Flow sensors must be connected to an automatic irrigation controller, or flow monitor capable of receiving flow signals and operating master valves. This combination flow sensor/controller may also function as a landscape water meter or submeter.

“Friable” means a soil condition that is easily crumbled or loosely compacted down to a minimum depth per planting material requirements, whereby the root structure of newly planted material will be allowed to spread unimpeded.

“Fuel Modification Plan Guideline” means guidelines from a local fire authority to assist residents and businesses that are developing land or building structures in a fire hazard severity zone.

“Graywater” means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. “Graywater” includes, but is not limited to, wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers. Health and Safety Code Section 17922.12.

“Hardscapes” means any durable surface material (pervious and non-pervious).

~~**“Homeowner-Provided Landscaping”** means landscaping either installed by a private individual for a single family residence or installed by a licensed contractor hired by a homeowner.~~

“Hydrozone” means a portion of the landscaped area having plants with similar water needs and rooting depth. A hydrozone may be irrigated or non-irrigated.

“Infiltration Rate” means the rate of water entry into the soil expressed as a depth of water per unit of time (i.e., inches per hour).

“Invasive Plant Species” means species of plants not historically found in California that spread outside cultivated areas and can damage environmental or economic resources. Invasive species may be regulated by county agricultural agencies as noxious species. ~~“Noxious weeds” means any weed as described in the Food and Agricultural Code, Section 5004. Lists of invasive plants are maintained at the California Invasive Plant Inventory and USDA invasive and noxious weeds database. the species of plants that have a tendency to colonize open spaces, riparian corridors, and other sensitive habitats.~~

“Irrigation Audit” means an in-depth evaluation of the performance of an irrigation system conducted by a Certified Landscape Irrigation Auditor. An irrigation audit includes, but is not limited to: inspection, system tune-up, system test with distribution uniformity or emission uniformity, reporting overspray or run off that causes overland flow, and preparation of an

irrigation schedule. [The audit must be conducted in a manner consistent with the Irrigation Association's Landscape Irrigation Auditor Certification program or other U.S. Environmental Protection Agency "Watersense" labeled auditing program.](#)

"Irrigation Efficiency" means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The ~~minimum-average~~ irrigation efficiency for purposes of this Chapter is 0.75 [for overhead spray devices and 0.81 for drip systems.](#)

"Irrigation Survey" means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to: inspection, system test and written recommendations to improve performance of the irrigation system.

"Irrigation Water Use Analysis" means an analysis of water use data based on meter readings and billing data.

"Landscape Package" means the documents required under Section 19.67.050.

"Landscaped Area (LA)" means all of the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, and other non-irrigated areas designated for nondevelopment (e.g., open spaces and existing native vegetation).

"Landscape Architect" means a person who holds a license to practice landscape architecture in the state of California (Business & Professions Code Section 5615).

"Landscape Contractor" means a person licensed possessing a valid C-27 license by the state of California to construct, maintain, repair, install, or subcontract the development of landscape systems.

"Landscape Project" means the total area of landscape in a project as defined in "landscape area," for the purposes of this Chapter, meeting the requirements under Section 149.1867.030.

[**"Landscape Water Meter"** means an inline device installed at the irrigation supply point that measures the flow of water into the irrigation system and is connected to a totalizer to record water use.](#)

"Lateral Line" means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve. This pipeline is typically downstream of the zone control valve and non-pressurized when irrigation is not occurring.

"Low Volume Irrigation" means the application of irrigation water at low pressure through a system of tubing or lateral lines and low-volume emitters such as drip, drip lines, and bubblers. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

"Main Line" means the pressurized pipeline that delivers water from the water source to the valve or outlet. This pipeline is typically pressurized at all times.

[**"Master Shut-Off Valve"** is an automatic valve installed at the irrigation supply point which controls water flow into the irrigation system. When this valve is closed water will not be supplied to the irrigation system. A master valve will greatly reduce any water loss due to a leaky station valve.](#)

“Maximum Applied Water Allowance (MAWA)” means the upper limit of annual applied water for the established landscaped area as specified in Section 19.67.050(B)(2). MAWA is based upon the area’s reference evapotranspiration, the ET Adjustment Factor, and the size of the landscaped area. The Estimated Total Water Use shall not exceed the Maximum Applied Water Allowance. Special Landscape Areas, including recreation areas, areas permanently and solely dedicated to edible plants such as orchards and vegetable gardens, and areas irrigated with recycled water are subject to the MAWA with an ETAF not to exceed 1.0. [MAWA = \(ETo\) \(0.62\) \[\(ETAF x LA\) + \(\(1-ETAF\) x SLA\)\]](#)

“Median” is an area between opposing lanes of traffic that may be unplanted or planted with trees, shrubs, perennials, and ornamental grasses.

“Microclimate” means the climate of a small, specific area that may contrast with the climate of the overall landscape area due to factors such as: wind, sun exposure, plant density or proximity to reflective surfaces.

“Mulch” means any organic material such as leaves, bark, straw or other inorganic mineral materials such as rocks, gravel, and decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature and preventing soil erosion.

“New Construction” means a new building with a landscape or other new landscape.

“Non-residential Landscape” means landscapes in commercial, institutional, industrial and public settings that may have areas designated for recreation or public assembly. It also includes portions of common areas of common interest developments with designated recreational areas.

“Operating Pressure” means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

“Overhead Sprinkler Irrigation Systems” or Overhead Spray Irrigation Systems” means systems that deliver water through the air (e.g., spray heads and rotors, etc).

“Overspray” means the irrigation water which is delivered beyond the target area.

“Parkway” means the area between a sidewalk and the curb or traffic lane. It may be planted or unplanted, and with or without pedestrian egress.

“Permit” means any authorizing document issued by the City of Roseville for new construction or rehabilitated landscaping.

“Pervious” means any surface or material that allows the passage of water through the material and into the underlying soil.

“Plant Factor or Plant Water Use Factor” means a factor, when multiplied by the ETo, estimates the amount of water needed by plants. For purposes of this Chapter, [the plant factor range for very low water use plants is 0 to 0.1,](#) the plant factor range for low water use plants is 0.1 to 0.3, the plant factor range for moderate water use plants is 0.4 to 0.6, and the plant factor range for high water use plants is 0.7 to 1.0. Plant factors cited in this Chapter are derived from the ~~Department of Water Resources 2000~~ publication “Water Use Classification of Landscape Species.” [Plant factors may also be obtained from horticultural researchers from academic institutions or professional associations as approved by the California Department of Water Resources \(DWR\).](#)

~~**“Precipitation Rate”** means the rate of application of water measured in inches per hour.~~

“Project Applicant” means the individual or entity submitting a Landscape Documentation Package required under Section 19.67.050 to request a permit, plan check or design review from the City. A project applicant may be the property owner or his/her designee.

“Rain Sensor or Rain Sensing Shutoff Device” means a component which automatically suspends an irrigation event when it rains.

“Record Drawing or As-Builts” means a set of reproducible drawings which show significant changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the contractor.

“Recreational Area” means areas excluding private single family residential areas, dedicated designated for to active play, recreation or public assembly in such as parks, sports fields, picnic grounds, amphitheaters or and golf courses tees, fairways, roughs, surroundings and greens, where turf provides a playing surface.

“Recycled Water, Reclaimed Water, or Treated Sewage Effluent Water” means treated or recycled wastewater of a quality suitable for non-potable uses such as landscape irrigation. This water is not intended for human consumption.

“Reference Evapotranspiration (ETo)” means a standard measurement of environmental parameters which affect the water use of plants. ETo is given in inches per day, month, or year as represented below, and is an estimate of the evapotranspiration of a large field of four- to seven-inch tall, cool season turf that is well watered. Reference evapotranspiration is used as the basis of determining the Maximum Applied Water Allowances so that regional differences in climate can be accommodated. Refer to Section 149.1867.050(B)(2)(b) for City of Roseville ETo.

“Rehabilitated Landscaping” means any re-landscaping project that requires a building permit, improvement plan approval, or design review and meets the requirements of Section 149.1867.030, and the modified landscape area is equal to or greater than 2,500 square feet.

“Residential Landscape” means landscapes surrounding single or multifamily homes.

“Runoff” means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape area. For example, runoff may result from water that is applied at too great a rate or too great a volume (application rate exceeds infiltration rate) or when there is a slope.

“Slope” means the steepness, incline, gradient, or grade of a straight line. A higher slope value indicates a steeper incline.

“Soil Moisture Sensing Device or Soil Moisture Sensor” means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.

“Soil Texture” means the classification of soil based on its percentage of sand, silt, and clay in the soil.

“Special Landscape Area (SLA)” means an area of the landscape dedicated solely to edible plants, recreational areas, areas irrigated with recycled water, or water features using recycled water and areas dedicated to active play such as parks, sports fields, golf courses, and where turf provides a community playing surface.

“Sprinkler Head or Spray Head” means a device which delivers overhead watering through a spray nozzle.

“Static Water Pressure” means the pipeline or municipal water supply pressure when water is not flowing.

“Station” means an area served by one valve or by a set of valves that operate simultaneously.

“Stormwater Quality Design Manual” means the most recent version of the design manual for the Sacramento and South Placer regions which sets forth the design criteria and operation and maintenance requirements for stormwater control measures.

“Swing Joint” means an irrigation component that provides a flexible, leak-free connection between the emission device and lateral pipeline to allow movement in any direction and to prevent equipment damage.

“Submeter” means a metering device to measure water applied to the landscape that is installed after the primary utility water meter.

“Temporarily Irrigated Areas” means either: (1) Landscaping which is reliant on irrigation for a temporary duration of time to allow plant root establishment; or (2) areas such as unfinished building pads, or other areas approved for future development, in which landscaping is planted on an interim basis.

“Turf” means a groundcover surface of mowed grass. Annual bluegrass, Kentucky bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are common cool-season grasses. Bermudagrass, Kikuyugrass, Seashore Paspalum, St. Augustinegrass, Zoysiagrass, and Buffalo grass are common warmseason grasses.

“Valve” means a device used to control the flow of water in the irrigation system.

“Water Conserving Plant Species” means a plant species identified as having a low plant water use factor.

“Water Feature” means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas and swimming pools (where water is artificially supplied). The surface area of water features is included in the high water use hydrozone of the landscape area. Constructed wetlands used for on-site wastewater treatment or stormwater best management practices that are not irrigated and used solely for water treatment or stormwater retention are not water features and, therefore, are not subject to the water budget calculation.

“Watering Window” means the time of day irrigation is allowed.

“WUCOLS” means Water Use Classification of Landscape Species published by the University of California Cooperative Extension, [and](#) the Department of Water Resources, ~~and the Bureau of Reclamation~~, 201400.

(Ord. 4786 (part), 2009.)

Section 149.1867.050 - Submittal Requirements

- A. Landscape Package Submittal Required.** Prior to issuance of a building permit or improvement plans, the project applicant shall submit a landscape package to the city for review and approval. The landscape package shall contain the information required by subsection B, and shall be incorporated into the improvement plan and/or landscape plan set in a form determined acceptable to the ~~Planning Manager~~ Environmental Utilities Director or his Designee.
- B. Elements of the Landscape Package.** The landscape package shall include the following six elements, which shall be incorporated into the landscape plan set in a form determined acceptable to the ~~Planning Manager~~ Environmental Utilities Director or his Designee:
- 1. Project Information.**
 - a. Date;**
 - b. Project applicant;**
 - c. Project address** (if available, parcel and/or lot number(s));
 - d. Total landscape area** (square feet);
 - e. Project type** (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed);
 - f. Water supply type** (e.g., potable, recycled, well) and the identity of the local retail water purveyor if the applicant is not served by a private well;
 - g. Checklist of all documents in Landscape Documentation Package;**
 - h. Project contacts** to include contact information for the project applicant and property owner;
 - i. Applicant signature and date** with the following statement: "I agree to comply with the requirements of the Water Efficient Landscaping Ordinance and submit a complete landscape documentation package."
 - 2. Water Efficient Landscape Worksheet.** The worksheet will be a form provided by the City, and shall include information on the plant factor, irrigation method, irrigation efficiency, and area associated with each hydrozone. Calculations are then made to show that the evapotranspiration adjustment factor (ETAF) for the landscape project does not exceed a factor of 0.55 for residential areas and 0.45 for non-residential areas, exclusive of Special Landscape Areas. The ETAF for a landscape project is based on the plant factors and irrigation methods selected. The Maximum Applied Water Allowance is calculated based on the maximum ETAF allowed (0.55 for residential areas and 0.45 for non-residential areas) and expressed as annual gallons required. The Estimated Total Water Use (ETWU) is calculated based on the plants used and irrigation method selected for the landscape design. ETWU must be below the MAWA.
 - ~~a. Hydrozone Information Table;~~
 - ~~b. Water Budget Calculations for Maximum Applied Water Allowance (MAWA) and Estimated Total Water Use (ETWU). For the calculation of~~ In calculating the maximum applied water allowance and estimated total water use, a project applicant shall use the following ETo values:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
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1.1	1.7	3.1	4.7	6.2	7.7	8.5	7.3	5.6	3.7	1.7	1.0	52.2
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i. **Water budget calculations shall adhere to the following requirements:**

- (1) The plant factor used shall be obtained from the most recent Water Use Classification of Landscape Species publication or from horticultural researchers with academic institutions or professional associations as approved by the California Department of Water Resources (DWR). The plant factors ranges shall be calculated as follows:
 - a. 0 to 0.1 for very low water using plants;
 - b. 0 to 0.3 for low water use plants;
 - ~~c.~~ 0.4 to 0.6 for moderate water use plants; and
 - ~~d.~~ 0.7 to 1.0 for high water use plants.
- (2) All water features shall be included in the high water use hydrozone.
- (3) Temporarily irrigated areas shall be designed as low water use hydrozones.
- (4) Special landscape areas shall be clearly identified and their water use calculated as shown in the Water Efficient Landscape Worksheet. Water use for new and existing (non-rehabilitated) special landscape areas shall be calculated with an ETAF not to exceed 1.0.

ii. **The landscape project's Maximum Applied Water Allowance (MAWA) shall be calculated as follows:**

- (1) **MAWA = (ET_o) (0.62) [~~0.7~~ETAF x LA] + (1-ETAF)0.3 x SLA],** where
 - a. **MAWA** = Maximum applied water allowance (gallons per year);
 - b. **ET_o** = Reference evapotranspiration (inches per year) (as provided in subsection (B)(2) above(b));
 - c. ~~0.7~~ETAF = ET adjustment factor (.55 for residential and .45 for non-residential);
 - d. **LA** = Landscaped area includes special landscape area (square feet);
 - e. **0.62** = Conversion factor (to gallons per square foot);
 - f. **SLA** = Portion of the landscape area identified as special landscape area (square feet);
 - ~~g. 0.3 = The additional ET adjustment factor for special landscape area (1.0 - 0.7 = 0.3)~~

3. **Soil Management Report.** In order to reduce runoff and encourage healthy plant growth, a soil management report shall be completed by the project applicant or designee, as follows:

a. Submit soil sample(s) to a laboratory for analysis and recommendations.

- i. Soil sampling shall be conducted in accordance with laboratory protocol, including protocols regarding adequate sampling depth for the intended plants; and
- ii. The soil analysis ~~may~~shall include:
 - (1) Soil texture;
 - (2) Infiltration rate determined by laboratory test or soil texture infiltration rate table;
 - (3) pH;
 - (4) Total soluble salts;
 - (5) Sodium;
 - (6) Percent organic matter; and
 - (7) Recommendations for appropriate amendment.

iii. In projects with multiple landscape installations (i.e. production home developments) a soil sampling rate of 1 in 7 lots or approximately 15% of the landscape area will satisfy this requirement.

- b. The soil analysis report shall be made available, in a timely manner, to the professionals preparing the landscape and irrigation design plans to make any necessary adjustments.
- c. Any soil management or amendment recommendations shall be included with the design plans for city review.
- d. Upon completion of construction and prior to issuance of an occupancy permit, the project applicant or designee shall submit documentation verifying implementation of soil analysis report recommendations within the landscaped area to the city with the certificate of completion.

4. Landscape Plan. Landscape plans, including plant selection, shall be designed consistent with the applicable specific plan or special planning area design guidelines. At a minimum, landscape design plans shall address the following:

a. Plant Materials. The estimated total water use for plants selected for the landscaped area shall not exceed the maximum applied water allowance. The landscape plan shall identify landscape materials, trees, shrubs, groundcover, turf, etc. Planting symbols shall be clearly drawn and plants shall be labeled by botanical name, common name, container size, spacing, and quantities or each group of plants indicated. Planting areas dedicated permanently and solely to edible plants should be clearly delineated. High water use plants, characterized by a plant factor of 0.7 to 1.0, are prohibited in street medians. Methods to achieve water efficiency shall include one or more of the following:

- i. Protection and preservation of native species and natural vegetation;
- ii. Selection of water-conserving plant, tree and turf species, especially local native plants;
- iii. Selection of plants based on local climate suitability, disease and pest resistance;
- iv. Selection of trees based on applicable local tree ordinances or tree shading guidelines, and size at maturity as appropriate for the planting area;
- v. Selection of plants from local and regional landscape program plant lists.

vi. Selection of plants from local Fuel Modification Plan Guidelines.

b. Plant Selection. Plants shall be selected and planted appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the project site. Methods to achieve water efficiency shall include one or more of the following:

i. Use the Sunset Western Climate Zone System which takes into account temperature, humidity, elevation, terrain, latitude, and varying degrees of continental and marine influence on local climate;

ii. Recognize the horticultural attributes of plants (i.e., mature plant size, invasive surface roots) to minimize damage to property or infrastructure [e.g., buildings, sidewalks, power lines]; allow for adequate soil volume for healthy root growth; and

iii. Consider the solar orientation for plant placement to maximize summer shade and winter solar gain.

c. Hydrozone Information. Each hydrozone shall contain plant materials with similar water use needs. Hydrozones shall be designated as low, moderate, high water, or mixed water use and shall be labeled by number, letter, or other method. Temporarily irrigated areas of the landscape shall be included in the low water use hydrozone for the water budget calculation. Areas irrigated with recycled water should be clearly delineated. For hydrozones with plants of mixed water use, refer to subsection (B)(5)(b).

d. Water Features. Water features may be permitted, subject to design review, and the provisions of Chapter 14.09 (Water Conservation).

i. All water features shall incorporate recirculating water systems.

ii. Where available, recycled water shall be used as a source for decorative water features.

iii. The surface area of a water feature shall be indicated on the plans and included in the high water use hydrozone area of the water budget calculation.

e. Limitations on Turf.

i. Turf shall not be permitted on slopes greater than 1 foot of vertical elevation change for every 4 feet of horizontal length-4:1.

ii. Turf shall not comprise greater than ~~50-25~~ percent of the front yard planting area of developer-installed single-family landscaping.

iii. With the exception of special landscape areas, turf shall not comprise greater than ~~50-25~~ percent of nonresidential landscaped area.

iv. Turf shall not be permitted within the protected zone radius of any native oak tree, as defined in Chapter 19.66.

f. Soil Preparation, Mulch and Amendments.

i. Prior to the planting of any materials, compacted soils shall be transformed to a friable condition. On engineered slopes, only amended planting holes need meet this requirement.

- ii. A minimum ~~three~~two-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers or direct seeding applications where mulch is not advisable. The plans shall identify the type of mulch and application depth. Shredded (i.e., "gorilla") mulch is not acceptable. To provide habitat for beneficial insects and other wildlife, up to 5% of the landscape area may be left without mulch. Designated insect habitat must be included in the landscape design plan as such.
- iii. For landscape installations, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil. Soils with greater than 6% organic matter in the top 6 inches of soil are exempt from adding compost and tilling.
- iv. Organic mulch materials made from recycled or post-consumer shall take precedence over inorganic materials or virgin forest products unless the recycled post-consumer organic products are not locally available. Organic mulches are not required where prohibited by local Fuel Modification Plan Guidelines or other applicable local ordinances.
- ~~iv~~i. Stabilizing mulching products shall be used on slopes greater than 1 foot of vertical elevation change for every 3 feet of horizontal length ~~3-1~~.
- ~~vi~~iii. Required soil amendments and quantities shall be clearly denoted on the plans. Soil amendments shall be incorporated based on the recommendations of the soil report and what is appropriate for the plants selected (see subsection (B)(3)).

g. Other Design Considerations. The landscape design plan, at a minimum, shall:

- i. Delineate property lines, utilities and utility easements, streets, driveways, walkways, and other paved areas or hardscapes (pervious or impervious);
- ii. Identify buildings and structures including pad elevation(s) if applicable;
- iii. Identify natural features to remain, including rock outcroppings, existing oak and ornamental trees, shrubs, etc.;
- iv. Identify recreational or other special landscape areas, as defined in Section 19.67.040;
- v. Identify the location, ~~and~~ installation details and ~~of~~ any applicable stormwater best management practices. Projects shall refer to the requirements of ~~by~~ the city's Stormwater Quality Design Manual;
- vi. Identify any applicable rain harvesting or catchment technologies as discussed in Section 14.18.120 and their 24-hour retention or infiltration capacity. (e.g., rain gardens, cisterns, etc.).
- vii. Identify any applicable graywater discharge piping, system components and area(s) of distribution;
- viii. A landscape design plan for projects in fire-prone areas shall address fire safety and prevention. A defensible space or zone around a building or structure is required per Public Resources Code Section 4291(a) and (b). Avoid fire-prone plant materials and highly flammable mulches. Refer to the local Fuel Modification Plan guidelines.

ix. The use of invasive and/or noxious plant species, such as those listed by the California Invasive Plant Council, is strongly discouraged.

x. The architectural guidelines of a common interest development, which include community apartment projects, condominiums, planned developments, and stock cooperatives, shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group.

h. **Verification.** The landscape plan shall contain the following statement: "I have complied with the criteria of the Water Efficient Landscaping Ordinance and applied such criteria for the efficient use of water in the landscape design plan," which shall be signed by a licensed landscape architect, licensed landscape contractor or any other person authorized to design a landscape plan pursuant to Sections 5500.1, 5615, 5641 et seq., 6701, and 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agriculture Code.

5. **Irrigation Plan.** This section applies to landscaped areas requiring permanent irrigation, not areas that require temporary irrigation solely for the plant establishment period. For the efficient use of water, an automated irrigation system shall meet all the requirements listed in this section and the manufacturers' recommendations. The irrigation system and its related components shall be planned and designed to allow for proper installation, management and maintenance.

a. **System Requirements.**

i. ~~Dedicated~~ Landscape water meters defined as either a dedicated water service meter or private submeter, shall be installed for all non-residential irrigated landscapes of 1,000 sq. ft. but not more than 5,000 sq.ft. (the level at which Water Code 535 applies) and residential irrigated landscapes of 5,000 sq. ft. or greater. A landscape water meter may be either:

(1) A customer service meter dedicated to landscape use provided by the local water purveyor; or

(2) A privately owned meter or submeter.

~~are required for all nonresidential landscape areas.~~

ii. Automatic irrigation controllers utilizing either evapotranspiration or soil moisture sensor data utilizing non-volatile memory shall be required for irrigation scheduling in all irrigation systems.

~~Weather-based irrigation controllers, soil moisture-based controllers or other self-adjusting irrigation controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change shall be required for irrigation scheduling in all irrigation systems in accordance with the California Green Building Standards Code, as amended.~~

For single family residential properties, controller shall have a minimum of 8 stations or be upgradable to 8 stations or more. An exception for additional stations may be provided for front yard landscapes that will be maintained by a homeowner's association.

iii. If the water pressure is below or exceeds the recommended pressure of the specified irrigation devices, the installation of a pressure regulating device is required ~~The irrigation system shall be designed~~ to ensure that the dynamic pressure at each emission device is within the manufacturer's recommended pressure range for optimal performance.

- (A) If the static pressure is above or below the required dynamic pressure of the irrigation system, pressure-regulating devices such as inline pressure regulators, booster pumps or other devices shall be installed to meet the required dynamic pressure of the irrigation system.
- (B) Static water pressure, dynamic or operating pressure and flow reading of the water supply shall be measured at the point of connection. These pressure and flow measurements shall be conducted at the design stage. If the measurements are not available at the design stage, the measurements shall be conducted at installation.
- (C) Sensors (rain, freeze, wind, etc.), either integral or auxiliary, that suspend or alter irrigation operation during unfavorable weather conditions shall be required on all irrigation systems, as appropriate for local climatic conditions. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have a rain sensor input. Irrigation should be avoided during windy or freezing weather or during rain.
- (D) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be required, as close as possible to the point of connection of the water supply, to minimize water loss in case of an emergency (such as a main line break) or routine repair.
- (E) Backflow prevention devices shall be provided as required by the environmental utilities department to protect the water supply from contamination by the irrigation system.
- (F) Flow sensors that detect high flow conditions created by system damage or malfunction are required for all on non-residential landscapes and residential landscapes of 5000 sq. ft. or larger.
- (G) Master shut-off valves are required on all projects except landscapes that make use of technologies that allow for the individual control of sprinklers that are individually pressurized in a system equipped with low pressure shut down features.
- (H) The irrigation system shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.
- (I) Relevant information from the soil management plan, such as soil type and infiltration rate, shall be utilized when designing irrigation systems.
- (J) The design of the irrigation system shall conform to the hydrozones delineated on the landscape design plan.
- (K) The irrigation system shall be designed and installed to meet irrigation efficiency criteria as described in subsection (B)(2) regarding the maximum applied water allowance.

- (L) All irrigation emission devices must meet the requirements set in the American National Standards Institute (ANSI) standard, American Society of Agricultural and Biological Engineers'/International Code Council's (ASABE/ICC) 802-2014 "Landscape Irrigation Sprinkler and Emitter Standard, All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.
- (M) Low volume irrigation shall be used in mulched planting areas to maximize water infiltration into the root zone.
- (N) Sprinkler heads and other emission devices shall have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations.
- (O) Sprinkler spacing shall be designed to achieve the highest possible distribution uniformity using the manufacturer's recommendations.
- (P) Swing joints or other riser-protection components shall be provided on all risers subject to damage that are adjacent to hardscapes or in high traffic areas of turf grass.
- (M) Check valves or anti-drain valves are required ~~for all irrigation systems on all sprinkler heads where low point drainage could occur.~~
- (N) ~~Narrow or irregularly shaped areas, including turf~~ Landscape areas less than ~~ten~~ eight feet in width in any direction shall be irrigated with subsurface irrigation or low volume irrigation technology or other means that produces no runoff or overspray ~~(including but not limited to multi-system, multi-trajectory rotator sprinklers).~~
- (S) Overhead irrigation shall not be permitted within 24 inches of any non-permeable surface. Allowable irrigation within the setback from non-permeable surfaces may include drip, drip line, or other low volume technology. The setback area may be planted or unplanted. The surfacing of the setback may be mulch, gravel, or other porous material. These restrictions may be modified if:
1. The landscape area is adjacent to permeable surfacing and no overspray and runoff occurs; or
 2. The adjacent non-permeable surfaces are designed and constructed to drain entirely to landscaping; or
 3. The irrigation designer specifies an alternative design or technology ~~(including, but not limited to, multi-stream, multi-trajectory rotator sprinklers).~~, as part of the landscape package, and clearly demonstrates strict adherence to irrigation system design criteria in subsection (B)(5). Prevention of overspray and runoff must be demonstrated and confirmed during the irrigation audit.
- (T) Slopes greater than ~~4:1~~ foot of vertical elevation change for every 4 feet of horizontal length shall not be irrigated with an irrigation system with an application ~~precipitation~~ rate exceeding 0.75 inches per hour. This restriction may be modified if the

landscape designer specifies an alternative design or technology, as part of the landscape package, and clearly demonstrates no runoff or erosion will occur. Prevention of runoff and erosion must be demonstrated and confirmed during the irrigation audit.

- (UQ) Irrigation design plans that incorporate use of recycled water shall comply with the requirements of the city's design standards for on-site recycled water systems.

b. Hydrozone.

- i. Each valve shall irrigate a hydrozone with similar site, slope, sun exposure, soil conditions and plant materials with similar water use.
- ii. Sprinkler heads and other emission devices shall be selected based on their appropriateness for the plant type within that hydrozone.
- iii. Where feasible, trees shall be placed on separate valves from shrubs, groundcovers, and turf to facilitate the appropriate irrigation of trees. The mature size and extent of the root zone shall be considered when designing irrigation for the tree.
- iv. Individual hydrozones that mix plants of moderate and low water use or moderate and high water use may be allowed if:
 - (A) The plant factor calculation is based on the proportions of the respective plant water uses and their plant factor; or
 - (B) The plant factor of the higher water using plant is used for calculations.
- v. Individual hydrozones that mix high and low water use plants shall not be permitted.
- vii. On the landscape design plan and irrigation design plan, hydrozone areas shall be designated by number, letter, or other designation. On the irrigation design plan, designate the areas irrigated by each valve, and assign a number to each valve. Use this valve number in the Hydrozone Information Table (see Water Efficient Landscape Worksheet). This table can also assist with the irrigation audit and programming the controller. ~~The areas irrigated by each valve shall be designated, and each valve shall be assigned a number corresponding to the hydrozones identified on the landscape plan. The valve number(s) shall be listed in the hydrozone information table on the plans.~~

c. The irrigation plan, at a minimum, shall identify:

- i. Location and size of separate water meters for landscape;
- ii. Location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators and backflow prevention devices;
- iii. Static water pressure at the point of connection to the public water supply;
- iv. Flow rate (gallons per minute), application rate (inches per hour) and design operating pressure (pressure per square inch) for each station;
- v. Recycled water irrigation systems as specified in Section ~~149.1867~~.100.

- d. **The irrigation plan shall contain the following statement:** “I have complied with the criteria of the Water Efficient Landscaping Ordinance and applied such criteria for the efficient use of water in the irrigation plan,” which shall be signed by a licensed landscape architect, certified irrigation designer, irrigation consultant, licensed landscape contractor or any other person authorized to design an irrigation system pursuant to Sections 5500.1, 5615, 5641 et seq., 6701, and 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agriculture Code.
- 6. **Grading and Drainage Plan.** For the efficient use of water, grading of a project site shall be designed to minimize soil erosion, runoff and water waste. A grading and drainage plan shall be submitted as part of the Landscape Documentation Package. The grading and drainage plan prepared by a civil engineer and submitted for improvement plan review in association with a development project may also satisfy this requirement.
 - a. **In addition to other city grading design standards,** the grading plan shall include the following information:
 - i. Height of graded slopes;
 - ii. Drainage patterns;
 - iii. Proposed underground and in-ground drainage improvements;
 - iv. Pad elevations; and
 - v. Finish grade.
 - b. **Stormwater retention or treatment improvements, if applicable.**
 - c. **Verification.** The grading and drainage plan shall contain the following statement: “I have complied with the criteria of the Water Efficient Landscaping Ordinance and applied such criteria for the efficient use of water in the grading and drainage plan,” which shall be signed by a licensed professional as required by law.
- C. **Approval Required.** Upon approval of the landscape package by the city, and provided all other applicable city requirements are met, the project applicant shall:
 - 1. Receive from the city a permit or approval and record the date of the permit or approval in the certificate of completion; and
 - 2. Submit a copy of the approved landscape package along with the record drawings, and any other information to the property owner or designee.

(Ord. 5481, 2015; Ord. 5321, 2014; Ord. 5186 § 1, 2013; Ord. 4786 (part), 2009; Ord. 5428 (part), 2014)

Section ~~149.1867~~.060 - Landscape Certificate of Completion

- A. Prior to issuance of a certificate of occupancy, a signed landscape certificate of completion shall be submitted to the Planning Division on a form prescribed by the ~~Planning Manager~~Environmental Utilities Director or his Designee that shall include the following information and documentation:
 - 1. Date, project name, project address, applicant name, telephone, and mailing address;
 - 2. Property owner name, telephone, and mailing address;

3. Certification by either the signer of the landscape design plan, the signer of the irrigation design plan, or the licensed landscape contractor that the landscape project has been installed per the approved landscape package;
 - a. Where there have been significant changes made in the field during construction, these “as-built” or record drawings shall be included with the certification;
 - b. A diagram of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes.
 4. Irrigation audit report (see Section ~~149.1867.080(A)(1)~~);
 5. Scheduling parameters used to set the irrigation controller (see Section ~~149.1867.070450~~);
 6. Landscape and irrigation maintenance schedule (see Section ~~194.1867.070(A)~~); and
 7. Soil analysis report, if not initially submitted with the landscape package, and documentation verifying implementation of soil management report recommendations.
- B. The project applicant shall ensure that copies of the approved landscape certificate of completion are submitted to the City and property owner or his/her designee.
- C. Following receipt and review, the City shall either approve or deny the landscape certificate of completion. If the landscape certificate of completion is denied, the City shall not be obligated to issue an occupancy permit and will provide information to the project applicant regarding necessary corrections, appeal, or other assistance.

(Ord. 4786 (part), 2009; Ord. 5428 (part), 2014)

Section ~~149.1867.070~~ - Irrigation Scheduling and Maintenance

- A. **Irrigation Scheduling.** For the efficient use of water, all irrigation schedules shall be developed, managed and evaluated to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:
1. Irrigation scheduling shall utilize automatic irrigation systems and evapotranspiration data.
 2. Overhead irrigation using potable water shall be scheduled between 8:00 p.m. and 10:00 a.m. unless it is demonstrated that weather conditions are unfavorable or would result in detriment to plant health. Operation of the irrigation system outside the normal watering window is permitted for auditing and system maintenance.
 3. The irrigation schedule shall factor irrigation run times, emission device, flow rate, and current reference evapotranspiration, so that applied water meets the Estimated Total Water Use. Total annual applied water shall be less than or equal to Maximum Applied Water Allowance.
 4. Using an appropriate controller, an annual irrigation program with monthly irrigation schedules shall be developed and submitted to the City for each of the following:
 - a. The plant establishment period;
 - b. The established landscape; and

- c. Temporarily irrigated areas.

5. Irrigation schedules shall consider the following:

- a. Irrigation interval (days between irrigation);
- b. Irrigation run times (hours or minutes per irrigation event to avoid runoff);
- c. Number of cycle starts required for each irrigation event to avoid runoff;
- d. Amount of applied water scheduled to be applied on a monthly basis;
- e. Application rate setting;
- f. Root depth setting;
- g. Plant type setting;
- h. Soil type;
- i. Slope factor and shade factor setting;
- j. Irrigation uniformity or efficiency setting.

B. Landscape and Irrigation Maintenance

- 1. Landscaping shall be maintained to ensure water use efficiency. A regular maintenance schedule shall be submitted with the landscape certificate of completion.
- 2. A regular maintenance schedule shall include, but is not limited to: routine inspection; auditing; adjustment and repair of the irrigation system and its components; aerating and de-thatching turf areas; top dressing with compost; replenishing mulch; fertilizing; pruning; weeding in all landscaped areas and removing any obstruction to emission devices.
- 3. Irrigation equipment shall be repaired or replaced with the originally installed components or equivalents or with components with greater efficiency.
- 4. A project applicant is encouraged to implement established landscape industry sustainable Best Practices for all landscape maintenance activities.

(Ord. 4786 (part), 2009.)

Section 14.18.080 – Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis ~~and Monitoring~~

- A. All landscape irrigation audits shall be conducted by a local agency landscape irrigation auditor or a third party certified landscape irrigation auditor. Landscape audits shall not be conducted by the person who designed the landscape or installed the landscape.
- (B) In large projects or projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or approximately 15% will satisfy this requirement.
- ~~(b)~~(C) For new construction and rehabilitated landscape projects installed after December 1, 2015, as described in Section 14.18.030:

- i. The project applicant shall submit an irrigation audit report with the Certificate of Completion to the local agency that may include, but is not limited to: inspection, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming;
- ii. The City shall administer programs that may include, but not be limited to, irrigation water use analysis, irrigation audits, and irrigation surveys for compliance with the Maximum Applied Water Allowance. ~~For new construction and rehabilitated landscape projects installed after January 1, 2010, as described in Section 19.67.030:~~

~~1. The project applicant shall submit an irrigation audit report with the landscape certificate of completion to the City that must include, at a minimum: inspection, system test (including distribution uniformity and verification of minimal overspray or run off that does not cause overland flow), system tune-up, and an irrigation schedule. Required landscape irrigation audits shall be conducted by a certified landscape irrigation auditor.~~

~~The City shall administer programs that may include, but not be limited to, irrigation water use analysis, mandatory irrigation audits conducted by property owners at owners' expense, and irrigation surveys for compliance with the Maximum Applied Water Allowance.~~

(Ord. 4786 (part), 2009.)

Section 14.18.090 - Irrigation Efficiency

For the purpose of determining the Estimated Total Water Use ~~maximum applied water allowance~~, average irrigation efficiency is assumed to be 0.75 for overhead spray devices and 0.81 for drip system devices. ~~Irrigation systems shall be designed, maintained and managed to meet or exceed an average landscape irrigation efficiency of 0.71.~~

(Ord. 4786 (part), 2009.)

Section 14.18.100 - Use of Recycled Water for Irrigation

- A. In addition to the requirements contained in this Chapter, landscape and irrigation plans for sites utilizing recycled water shall be designed consistent with the requirements of Chapter 14.17 (Recycled Water Service), and the City's Rules and Regulations for Use of Recycled Water.
- B. Irrigation systems shall be designed and constructed to allow the use of recycled water where such recycled water is available or may become available in the future.
- C. Irrigation systems shall use recycled water, if available, unless a written exemption has been granted by the City stating that recycled water meeting all public health codes and standards is not available and will not be available for the foreseeable future.
- D. Landscaping using recycled water are considered Special Landscape Areas. The ET Adjustment Factor for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.

(Ord. 4786 (part), 2009.)

Section 14.18.110 – Use of Greywater Systems

- A. Graywater systems promote the efficient use of water and are encouraged to assist in on-site landscape irrigation. All graywater systems shall conform to the California Plumbing Code and any applicable local ordinance standards. Refer to 14.18.030 for the applicability of this ordinance to landscape areas less than 2,500 square feet with the Estimated Total Water Use met entirely by graywater.

Section ~~149.67~~18.120~~140~~ - Stormwater Management and Rainwater Retention

- A. Stormwater management best practices incorporated into the landscape shall comply with the requirements of the City's Stormwater Quality Design Manual.
- B. All planted landscape areas are required to have friable soil to maximize water retention and infiltration. Refer to Section 14.18.050(4)(f).
- C. It is strongly recommended that landscape areas be designed for capture and infiltration capacity that is sufficient to prevent runoff from impervious surfaces (i.e. roof and paved areas) from either: the one inch, 24-hour rain event or (2) the 85th percentile, 24-hour rain event, and/or additional capacity as required by any applicable local, regional, state or federal regulation.
- D. It is recommended that storm water projects incorporate any of the following elements to improve on-site storm water and dry weather runoff capture and use:
- Grade impervious surfaces, such as driveways, during construction to drain to vegetated areas.
 - Minimize the area of impervious surfaces such as paved areas, roof and concrete driveways.
 - Incorporate pervious or porous surfaces (e.g., gravel, permeable pavers or blocks, pervious or porous concrete) that minimize runoff.
 - Direct runoff from paved surfaces and roof areas into planting beds or landscaped areas to maximize site water capture and reuse.
 - Incorporate rain gardens, cisterns, and other rain harvesting or catchment systems.
 - Incorporate infiltration beds, swales, basins and drywells to capture storm water and dry weather runoff and increase percolation into the soil.
 - Consider constructed wetlands and ponds that retain water, equalize excess flow, and filter pollutants.

(Ord. 4786 (part), 2009.)

Section ~~149.18~~67.13~~20~~ - Public Education

- A. The City shall make available information regarding the design, installation, management, and maintenance of water efficient landscaping based on a water budget in permitted renovations or new single family residential homes. Said information may be provided in the form of print, electronic, or similar media deemed practical by the City.
- B. **Model Homes.** All model homes that are landscaped shall use signs and written information to demonstrate the principles of water efficient landscaping described in this Chapter.
1. Signs shall be used to identify the model as an example of a water efficient landscape and featuring elements such as hydrozones, irrigation equipment and others which that contribute to the overall water efficient theme. Signs shall include information about the site water use as designed per the local ordinance; specify who designed and installed

the water efficient landscape; and demonstrate low water use approaches to landscaping such as using native plants, graywater systems, and rainwater catchment systems.

2. Information shall be provided regarding designing, installing, managing, and maintaining water efficient landscaping.

(Ord. 4786 (part), 2009.)

Section 149.1867.1430 - Provisions for Existing Landscaping installed prior to ~~January~~ December 1, 2010 ~~2015~~

A. Irrigation Water Use Analysis and Monitoring

1. For all existing landscaping installed prior to ~~January 1, 2010~~ December 1, 2015 with a dedicated or mixed-use water meter that is one acre or more, including golf courses, green belts, common areas, multifamily housing, schools, businesses, parks, cemeteries and publicly owned landscaping, the City shall offer programs that may include, but not be limited to, irrigation water use analyses, and irrigation surveys to verify that landscape water use does not exceed the Maximum Applied Water Allowance for existing landscaping. The City may require mandatory irrigation audits conducted at property owners' expense to demonstrate that existing landscaping comply with the Maximum Applied Water Allowance.
2. For all existing landscaping over one (1) acre in size that do not have a meter, the City shall offer programs that may include irrigation surveys and irrigation audits that verify proper operation of the irrigation system and prevent water waste.

B. Maximum Applied Water Allowance for existing landscaping shall be calculated as: $MAWA = (0.8)(ET_o)(LA)(0.62)$.

C. Required landscape irrigation audits shall be conducted by a certified landscape irrigation auditor.

D. Effective Precipitation. The City may consider Effective Precipitation (not to exceed 25% of annual precipitation) in tracking water use and may use the following equation to calculate Maximum Applied Water Allowance for landscaping installed before December 1, 2015:
 $MAWA = (ET_o - Eppt) (0.62) [(0.55 \times LA) + (0.45 \times SLA)]$ for residential areas.
 $MAWA = (ET_o - EPPT) (0.62) [(0.45 \times LA) + (0.55 \times SLA)]$ for non-residential areas.
 ~~$MAWA = (ET_o - Eppt) (0.62) (0.7 \times LA + 0.3 \times (SLA))$~~

(Ord. 4786 (part), 2009.)

Section 149.1867.1540 - Enforcement

A. Enforcement.

1. It shall be the duty of the ~~Planning Manager~~ Environmental Utilities Director or his Designee to enforce the provisions of this Chapter. All departments, officials and public employees vested with the duty or authority to issue permits or licenses shall not issue a permit or license for uses, buildings or purposes in conflict with the provisions of this Chapter and any such permit or license issued in conflict with the provisions of this Chapter shall be null and void. The ~~Planning Manager~~ Environmental Utilities Director or his Designee may delegate enforcement responsibilities to other City employees.

2. Any landscaping that is installed, constructed, altered, enlarged, converted, moved, or maintained contrary to the provisions of this Chapter, or failure to comply with any of the conditions of a permit or variance granted under this Chapter is declared to be unlawful. The City Attorney may initiate an action or proceeding to enforce the provisions of this Chapter, as appropriate.

(Ord. 4786 (part), 2009; Ord. 5428 (part), 2014)

Section ~~149.1867.1650~~ - Penalties

Any property owner, person, firm, or corporation, whether as principal, agent, employee or otherwise, violating any provision of this Chapter shall be guilty of a misdemeanor, and upon conviction thereof shall be punishable by a fine of not more than \$500.00 or by imprisonment in the County Jail for a term not exceeding six (6) months, or by both. The City Attorney in his or her discretion may reduce any violation of this Chapter to an infraction, punishable by a fine of not more than \$250.00. Any property owner, person, firm, or corporation shall be deemed guilty of a separate offense for each and every day during any portion of which any violation of this Chapter is committed, continued or permitted by such person, firm or corporation, and shall be deemed guilty of a separate offense for each and every day during any portion of which any violation of this Chapter is committed, continued or permitted by such person, firm or corporation, and shall be punishable as provided herein. Penalties under the administrative enforcement provisions of Chapter 2.52 of this code may be imposed in lieu of, but not in addition to, penalties imposed by the court for any single violation.

(Ord. 4786 (part), 2009.)

Section 14.18.170 - Reporting

The City shall report on implementation and enforcement of the WELO by December 31, 2015. Subsequently, reporting for the City will be done by January 31st of each year. Reports shall be submitted to the Department of Water Resources (DWR) and address the criteria requested by DWR.

ORDINANCE NO. ____

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE REPEALING CHAPTER
19.67 OF ARTICLE IV OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE
REGARDING WATER EFFICIENT LANDSCAPING, AND ADDING CHAPTER 14.18 OF
TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING
WATER EFFICIENT LANDSCAPING

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Chapter 19.67 of Article IV of Title 19 of the Roseville Municipal code is hereby repealed in its entirety.

SECTION 2. Chapter 14.18 of Title 14 of the Roseville Municipal Code is hereby added to read as follows:

Chapter 14.18

WATER EFFICIENT LANDSCAPING

14.18.010 Purpose.

A. Intelligent design and water management can enable citizens of Roseville to enjoy a well landscaped community, while at the same time conserving resources. Skillful planting and

irrigation design, appropriate use of plants, and intelligent landscape management, can ensure that excessive water demands are reduced and allow the community to be less vulnerable during periods of severe drought. Efficient design practices such as: irrigation systems that apply water at a usable rate within the root zone of the plants, automatic irrigation controllers that allow early morning watering when there is less heat and wind allowing more efficient irrigation, and properly maintained moisture sensors that override automatic irrigation when the soil is already moist or wet are all measures that can reduce water demands, yet at the same time provide sufficient moisture to maintain the City's climate-appropriate landscaping.

B. The purpose of these requirements is to comply with the Water Conservation in Landscaping Act of 2006, Government Code Sections 65591 et. seq, and to define the standards and procedures for the design, installation, and management of landscaping. This is intended to utilize available plant, water, land and human resources to the greatest benefit of Roseville residents. Water resources are a finite resource. Therefore, in times of water shortages, water cutbacks may be required, combined with limits to landscaping installation and water usage, as specified in the Roseville Municipal Code Chapter 14.09 (Water Conservation).

C. Landscapes that are planned, designed, installed, managed and maintained with the watershed based approach can improve California's environmental conditions and provide benefits and realize sustainability goals. Such landscapes will make the urban environment resilient in the face of climatic extremes. Consistent with the legislative findings and purpose of the Ordinance, conditions in the urban setting will be improved by:

1. Creating the conditions to support life in the soil by reducing compaction, incorporating organic matter that increases water retention, and promoting productive plant growth that leads to more carbon storage, oxygen production, shade, habitat and esthetic benefits.
2. Minimizing energy use by reducing irrigation water requirements, reducing reliance on petroleum based fertilizers and pesticides, and planting climate appropriate shade trees in urban areas.
3. Conserving water by capturing and reusing rainwater and graywater wherever possible and selecting climate appropriate plants that need minimal supplemental water after establishment.
4. Protecting air and water quality by reducing power equipment use and landfill disposal trips, selecting recycled and locally sourced materials, and using compost, mulch and efficient irrigation equipment to prevent erosion.
5. Protecting existing habitat and creating new habitat by choosing local native plants, climate adapted non-natives and avoiding invasive plants. Utilizing integrated pest management with least toxic methods as the first course of action.

14.18.020 Authority and Relationship to other Documents.

A. Consistency with specific plans and other design guidelines. Landscape and irrigation plans shall be designed consistent with this Chapter and any adopted specific plans or other planning area design guidelines, if applicable. Where any inconsistencies arise between this Chapter and other adopted policy documents, the more restrictive requirement shall govern.

B. Water use consumption information for specific plant species. Should conflicts arise between the water use information contained in the Water Use Classification of Landscape Species publication, as defined in Section 14.18.040, and the Specific Plan or planting area design guidelines, the Water Use Classification of Landscape Species publication shall govern.

14.18.030 Applicability.

A. The provisions of this Chapter shall apply to all of the following landscape projects:

1. New Construction and Rehabilitated Projects. New construction and rehabilitated landscape projects requiring a building permit, plan check or Design Review Permit (DRP).
2. Developer-Installed or Homeowner Provided Landscaping Less than 2,500 Square Feet in Single-Family Residential Projects. Any single-family or two-family landscape project that is developer installed or homeowner provided with an aggregate landscape area of 2,500 square feet or less requiring a building

permit, plan check or DRP, may comply with the performance requirements of this ordinance or conform to the prescriptive measures contained below.

- a. Compliance with the following items is mandatory and must be documented on a landscape plan in order to use the prescriptive compliance option:
 - (i.) Date;
 - (ii.) project applicant;
 - (iii.) project address (if available, parcel and/or lot number(s));
 - (iv.) total landscape area (square feet), including a breakdown of turf and plant material;
 - (v.) project type (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed);
 - (vi.) water supply type (e.g., potable, recycled, well) and identify the local retail water purveyor if the applicant is not served by a private well;
 - (vii.) contact information for the project applicant and property owner;
 - (viii.) applicant signature and date with statement, “I agree to comply with the requirements of the prescriptive compliance option to the MWELO”.

- b. Incorporate compost at a rate of at least four cubic yards per 1,000 square feet to a depth of six inches into landscape area (unless contra-indicated by a soil test);
- c. Plant material shall comply with all of the following:
 - (i.) Install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 75% of the plant area excluding edibles and areas using recycled water;
 - (ii.) A minimum three inch (3") layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.
- d. Turf shall comply with all of the following:
 - (i.) Turf shall not exceed 25% of the landscape area;
 - (ii.) Turf shall not be planted on sloped areas which exceed a slope of 25%;
 - (iii.) Turf is prohibited in parkways less than 10 feet wide, unless the parkway is adjacent to a parking strip and used to enter and exit vehicles. Any turf in parkways must be irrigated by sub-surface

irrigation or by other technology that creates no overspray or runoff.

- e. Irrigation systems shall comply with the following:
 - (i.) Automatic irrigation controllers are required and must use evapotranspiration or soil moisture sensor data and utilize a rain sensor;
 - (ii.) Irrigation controllers shall be of a type which does not lose programming data in the event the primary power source is interrupted;
 - (iii.) Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturers recommended pressure range;
 - (iv.) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be installed as close as possible to the point of connection of the water supply;
 - (v.) All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC 802-2014. "Landscape Irrigation Sprinkler and Emitter Standard," All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014;

- (vi.) Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.
 - f. At the time of final inspection, the permit applicant must provide the City and owner of the property with a certificate of completion, certificate of installation, irrigation schedule and a schedule of landscape and irrigation maintenance.
3. Graywater Systems. For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2500 sq. ft. of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D section (5).
4. Existing Landscaping. Landscaping constructed prior to the effective date of the ordinance codified in this chapter and not rehabilitated shall only be required to comply with the requirements contained in Section 14.18.130.
5. Cemeteries. Recognizing the special landscape management needs of cemeteries, new and rehabilitated cemeteries shall only be required to comply with the requirements contained in Sections 14.18.050(B)(2), 14.18.070, and

14.18.080. Existing cemeteries shall comply with the requirements contained in Section 14.18.130.

6. Homeowners Associations and Common Interest Developments. The architectural guidelines (i.e., CC&Rs) of a common interest development, which may include community apartment projects, condominiums, planned developments, stock cooperatives, or single-family subdivisions governed by a homeowners association shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group. Further, said guidelines shall not prohibit the removal of turf, nor restrict or prohibit the reduction of turf in lieu of more water efficient alternatives (Civil Code Section 1353.8).

B. The provisions of this chapter shall not apply to:

1. Registered local, state or federal historical sites;
2. Ecological restoration projects that do not require a permanent irrigation system;
3. Mined-land reclamation projects that do not require a permanent irrigation system; or

4. Existing plant collections, as part of botanical gardens and arboretums open to the public.

14.18.040 Definitions.

For the purposes of this Chapter, the following definitions shall apply:

“Applied Water” means the portion of water supplied by the irrigation system to the landscape.

“Backflow Prevention Device” means a safety device used to prevent pollution or contamination of the City water supply due to the reverse flow of water from the irrigation system.

“Check Valve or Anti-Drain Valve” means a valve located under a sprinkler head or other location in the irrigation system to hold water in the system to prevent drainage from sprinkler heads when the system is off.

“Conversion Factor (0.62)” means the number that converts acre-inches per acre per year to gallons per square foot per year.

“Certificate of Completion” means the document required under Section 14.18.060.

“Certified Landscape Irrigation Auditor” means a person certified to perform landscape irrigation audits by an accredited academic institution, a professional trade organization or other program such as the United States Environmental Protection Agency WaterSense irrigation auditor certification program, licensed landscape architect, and Irrigation Association Certified Landscape Irrigation Auditor program.

“Certified Irrigation Designer” means a person certified to design irrigation systems by an accredited academic institution, or a professional trade organization or other program such as the United States Environmental Protection Agency WaterSense irrigation designer certification program and Irrigation Association Certified Irrigation Designer program.

“Common Interest Developments” means community apartment projects, condominium projects, planned developments, and stock cooperatives per Civil Code Section 1353.8

“Compost” means the safe and stable product of controlled biologic decomposition of organic materials that is beneficial to plant growth.

“Controller” means a timing device used to remotely control valves that operate an irrigation system. Automatic irrigation controllers are able to self-adjust and schedule irrigation events using either evapotranspiration (weather-based) or soil moisture data.

“Distribution uniformity” means the measure of the uniformity of irrigation water over a defined area.

“Drip Irrigation” means any non-spray low volume irrigation system utilizing emission devices with a flow rate measured in gallons per hour. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

“Ecological Restoration Project” means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.

“Effective Precipitation or Usable Rainfall (EPPT)” means the portion of total precipitation that is used by the plants.

“Emitter” means a drip irrigation emission device that delivers water slowly from the irrigation system to the soil.

“Environmental Utilities Department” means the Department within the City of Roseville that is responsible for providing utility service with the City. The Roseville water utility is a division within the Department responsible for providing retail water service.

“Established Landscape” means the point at which plants in the landscape have developed significant roots growth to support themselves. Typically, most plants are established after one (1) or two (2) years of growth.

“Establishment Period of the Plants” means the first year after installing the plant in the landscape, or the first two (2) years if irrigation will be terminated after establishment.

Native habitat mitigation areas and trees may need three to five years for establishment.

“Estimated Total Water Use (ETWU)” means the annual total water used for the landscape as described in Section 14.18.050(B)(2).

“Evapotranspiration (ET)” means the loss of water to the atmosphere by the combined processes of evaporation and transpiration.

“ET Adjustment Factor (ETAF)” means a factor of 0.55 for residential areas and 0.45 for non-residential areas, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape. The ETAF for new and existing (non-rehabilitated) Special Landscape Area shall not exceed 1.0. The ETAF for existing, non-rehabilitated landscaping is 0.8.

“Evapotranspiration (ET) Rate” means the quantity of water evaporated from adjacent soil and other surfaces and transpired by plants during a specified time.

“Flow Rate” means the rate at which water flows through pipes, valves, and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.

“Flow sensor” means an inline device installed at the supply point of the irrigation system that produces a repeatable signal proportional to flow rate. Flow sensors must be connected to an automatic irrigation controller, or flow monitor capable of receiving flow signals and operating master valves. This combination flow sensor/controller may also function as a landscape water meter or submeter.

“Friable” means a soil condition that is easily crumbled or loosely compacted down to a minimum depth per planting material requirements, whereby the root structure of newly planted material will be allowed to spread unimpeded.

“Fuel Modification Plan Guideline” means guidelines from a local fire authority to assist residents and businesses that are developing land or building structures in a fire hazard severity zone.

"Graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to, wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers. Health and Safety Code Section 17922.12.

“Hardscapes” means any durable surface material (pervious and non-pervious).

“Homeowner-Provided Landscaping” means landscaping either installed by a private individual for a single family residence or installed by a licensed contractor hired by a homeowner.

“Hydrozone” means a portion of the landscaped area having plants with similar water needs and rooting depth. A hydrozone may be irrigated or non-irrigated.

“Infiltration Rate” means the rate of water entry into the soil expressed as a depth of water per unit of time (i.e., inches per hour).

“Invasive Plant Species” means species of plants not historically found in California that spread outside cultivated areas and can damage environmental or economic resources. Invasive species may be regulated by county agricultural agencies as noxious species. Lists of invasive plants are maintained at the California Invasive Plant Inventory and USDA invasive and noxious weeds database.

“Irrigation Audit” means an in-depth evaluation of the performance of an irrigation system conducted by a Certified Landscape Irrigation Auditor. An irrigation audit includes, but is not limited to: inspection, system tune-up, system test with distribution uniformity or emission uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule. The audit must be conducted in a manner consistent with the Irrigation

Association's Landscape Irrigation Auditor Certification program or other U.S. Environmental Protection Agency "Watersense" labeled auditing program.

"Irrigation Efficiency" means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The irrigation efficiency for purposes of this Chapter is 0.75 for overhead spray devices and 0.81 for drip systems.

"Irrigation Survey" means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to: inspection, system test and written recommendations to improve performance of the irrigation system.

"Irrigation Water Use Analysis" means an analysis of water use data based on meter readings and billing data.

"Landscape Package" means the documents required under Section 14.18.050.

"Landscaped Area (LA)" means all of the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, and

other non-irrigated areas designated for nondevelopment (e.g., open spaces and existing native vegetation).

“Landscape Architect” means a person who holds a license to practice landscape architecture in the state of California (Business & Professions Code Section 5615).

“Landscape Contractor” means a person licensed possessing a valid C-27 license by the state of California to construct, maintain, repair, install, or subcontract the development of landscape systems.

“Landscape Project” means the total area of landscape in a project as defined in “landscape area,” for the purposes of this Chapter, meeting the requirements under Section 14.18.030.

“Landscape Water Meter” means an inline device installed at the irrigation supply point that measures the flow of water into the irrigation system and is connected to a totalizer to record water use.

“Lateral Line” means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve. This pipeline is typically downstream of the zone control valve and non-pressurized when irrigation is not occurring.

“Low Volume Irrigation” means the application of irrigation water at low pressure through a system of tubing or lateral lines and low-volume emitters such as drip, drip lines, and bubblers. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

“Main Line” means the pressurized pipeline that delivers water from the water source to the valve or outlet. This pipeline is typically pressurized at all times.

“Master Shut-Off Valve” is an automatic valve installed at the irrigation supply point which controls water flow into the irrigation system. When this valve is closed water will not be supplied to the irrigation system. A master valve will greatly reduce any water loss due to a leaky station valve.

“Maximum Applied Water Allowance (MAWA)” means the upper limit of annual applied water for the established landscaped area as specified in Section 14.18.050(B)(2). MAWA is based upon the area’s reference evapotranspiration, the ET Adjustment Factor, and the size of the landscaped area. The Estimated Total Water Use shall not exceed the Maximum Applied Water Allowance. Special Landscape Areas, including recreation areas, areas permanently and solely dedicated to edible plants such as orchards and vegetable gardens, and areas irrigated with recycled water are subject to the MAWA with an ETAF not to exceed 1.0.

$$MAWA = (ET_o) (0.62) [(ETAF \times LA) + ((1-ETAF) \times SLA)]$$

“**Median**” is an area between opposing lanes of traffic that may be unplanted or planted with trees, shrubs, perennials, and ornamental grasses.

“**Microclimate**” means the climate of a small, specific area that may contrast with the climate of the overall landscape area due to factors such as: wind, sun exposure, plant density or proximity to reflective surfaces.

“**Mulch**” means any organic material such as leaves, bark, straw or other inorganic mineral materials such as rocks, gravel, and decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature and preventing soil erosion.

“**New Construction**” means a new building with a landscape or other new landscape.

“**Non-residential Landscape**” means landscapes in commercial, institutional, industrial and public settings that may have areas designated for recreation or public assembly. It also includes portions of common areas of common interest developments with designated recreational areas.

“**Operating Pressure**” means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

“Overhead Sprinkler Irrigation Systems or Overhead Spray Irrigation Systems”

means systems that deliver water through the air (e.g., spray heads and rotors, etc.).

“Overspray” means the irrigation water which is delivered beyond the target area.

“Parkway” means the area between a sidewalk and the curb or traffic lane. It may be planted or unplanted, and with or without pedestrian egress.

“Permit” means any authorizing document issued by the City of Roseville for new construction or rehabilitated landscaping.

“Pervious” means any surface or material that allows the passage of water through the material and into the underlying soil.

“Plant Factor or Plant Water Use Factor” means a factor, when multiplied by the ETo, estimates the amount of water needed by plants. For purposes of this Chapter, the plant factor range for very low water use plants is 0 to 0.1, the plant factor range for low water use plants is 0.1 to 0.3, the plant factor range for moderate water use plants is 0.4 to 0.6, and the plant factor range for high water use plants is 0.7 to 1.0. Plant factors cited in this Chapter are derived from the publication “Water Use Classification of Landscape Species.” Plant factors may also be obtained from horticultural researchers from academic institutions or professional associations as approved by the California Department of Water Resources (DWR).

“Project Applicant” means the individual or entity submitting a Landscape Documentation Package required under Section 14.18.050 to request a permit, plan check or design review from the City. A project applicant may be the property owner or his/her designee.

“Rain Sensor or Rain Sensing Shutoff Device” means a component which automatically suspends an irrigation event when it rains.

“Record Drawing or As-Builts” means a set of reproducible drawings which show significant changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the contractor.

“Recreational Area” means areas, excluding private single family residential areas, designated for active play, recreation or public assembly in parks, sports fields, picnic grounds, amphitheaters or golf courses tees, fairways, roughs, surrounds and greens.

“Recycled Water, Reclaimed Water, or Treated Sewage Effluent Water” means treated or recycled wastewater of a quality suitable for non-potable uses such as landscape irrigation. This water is not intended for human consumption.

“Reference Evapotranspiration (ET_o)” means a standard measurement of environmental parameters which affect the water use of plants. ET_o is given in inches per day, month, or year as represented below, and is an estimate of the evapotranspiration of a large field of four- to seven-inch tall, cool season turf that is well watered. Reference evapotranspiration is

used as the basis of determining the Maximum Applied Water Allowances so that regional differences in climate can be accommodated. Refer to Section 14.18.050(B)(2) for City of Roseville ETo.

“Rehabilitated Landscaping” means any re-landscaping project that requires a building permit, improvement plan approval, or design review and meets the requirements of Section 14.18.030,.

“Residential Landscape” means landscapes surrounding single or multi-family homes.

“Runoff” means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape area. For example, runoff may result from water that is applied at too great a rate or too great a volume (application rate exceeds infiltration rate) or when there is a slope.

“Slope” means the steepness, incline, gradient, or grade of a straight line. A higher slope value indicates a steeper incline.

“Soil Moisture Sensing Device or Soil Moisture Sensor” means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.

“Soil Texture” means the classification of soil based on its percentage of sand, silt, and clay in the soil.

“Special Landscape Area (SLA)” means an area of the landscape dedicated solely to edible plants, recreational areas, areas irrigated with recycled water, or water features using recycled water.

“Sprinkler Head or Spray Head” means a device which delivers overhead watering through a spray nozzle.

“Static Water Pressure” means the pipeline or municipal water supply pressure when water is not flowing.

“Station” means an area served by one valve or by a set of valves that operate simultaneously.

“Stormwater Quality Design Manual” means the most recent version of the design manual for the Sacramento and South Placer regions which sets forth the design criteria and operation and maintenance requirements for stormwater control measures.

“Swing Joint” means an irrigation component that provides a flexible, leak-free connection between the emission device and lateral pipeline to allow movement in any direction and to prevent equipment damage.

“Submeter” means a metering device to measure water applied to the landscape that is installed after the primary utility water meter.

“Temporarily Irrigated Areas” means either: (1) Landscaping which is reliant on irrigation for a temporary duration of time to allow plant root establishment; or (2) areas such as unfinished building pads, or other areas approved for future development, in which landscaping is planted on an interim basis.

“Turf” means a groundcover surface of mowed grass. Annual bluegrass, Kentucky bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are common cool-season grasses. Bermudagrass, Kikuyugrass, Seashore Paspalum, St. Augustinegrass, Zoysiagrass, and Buffalo grass are common warmseason grasses.

“Valve” means a device used to control the flow of water in the irrigation system.

“Water Conserving Plant Species” means a plant species identified as having a low plant water use factor.

“Water Feature” means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas and swimming pools (where water is artificially supplied). The surface area of water features is included in the high water use hydrozone of the landscape area. Constructed wetlands used for on-site wastewater treatment or stormwater best management practices that are

not irrigated and used solely for water treatment or stormwater retention are not water features and, therefore, are not subject to the water budget calculation.

“Watering Window” means the time of day irrigation is allowed.

“WUCOLS” means Water Use Classification of Landscape Species published by the University of California Cooperative Extension, the Department of Water Resources, and the Bureau of Reclamation, as may be amended.

14.18.050 Submittal Requirements.

A. Landscape Package Submittal Required. Prior to issuance of a building permit or improvement plans, the project applicant shall submit a landscape package to the city for review and approval. The landscape package shall contain the information required by subsection B, and shall be incorporated into the improvement plan and/or landscape plan set in a form determined acceptable to the Environmental Utilities Director or his designee.

B. Elements of the Landscape Package. The landscape package shall include the following six elements, which shall be incorporated into the landscape plan set in a form determined acceptable to the Environmental Utilities Director or his designee:

1. Project Information
 - a. Date;
 - b. Project applicant;

- c. Project address (if available, parcel and/or lot number(s));
 - d. Total landscape area (square feet);
 - e. Project type (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed);
 - f. Water supply type (e.g., potable, recycled, well) and the identity of the local retail water purveyor if the applicant is not served by a private well;
 - g. Checklist of all documents in Landscape Documentation Package;
 - h. Project contacts to include contact information for the project applicant and property owner;
 - i. Applicant signature and date with the following statement: "I agree to comply with the requirements of the Water Efficient Landscaping Ordinance and submit a complete landscape documentation package."
2. Water Efficient Landscape Worksheet. The worksheet will be a form provided by the City, and shall include information on the plant factor, irrigation method, irrigation efficiency, and area associated with each hydrozone. Calculations are then made to show that the evapotranspiration adjustment factor (ETAF) for the landscape project does not exceed a factor of 0.55 for residential areas and 0.45 for non-residential areas, exclusive of Special Landscape Areas. The ETAF for a landscape project is based on the plant factors and irrigation methods selected. The Maximum Applied Water Allowance is calculated based on the maximum ETAF allowed (0.55 for residential areas and 0.45 for non-residential areas) and expressed as annual gallons required. The Estimated Total Water Use (ETWU) is

calculated based on the plants used and irrigation method selected for the landscape design. ETWU must be below the MAWA.

In calculating the maximum applied water allowance and estimated total water use, a project applicant shall use the following ETo values:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
1.1	1.7	3.1	4.7	6.2	7.7	8.5	7.3	5.6	3.7	1.7	1.0	52.2

- a. Water budget calculations shall adhere to the following requirements:
 - (i.) The plant factor used shall be obtained from the most recent Water Use Classification of Landscape Species publication or from horticultural researchers with academic institutions or professional associations as approved by the California Department of Water Resources (DWR). The plant factors ranges shall be calculated as follows:
 - a. 0 to 0.1 for very low water use plants;

- b. 0 to 0.3 for low water use plants;
- c. 0.4 to 0.6 for moderate water use plants; and
- d. 0.7 to 1.0 for high water use plants.

- (ii.) All water features shall be included in the high water use hydrozone.
- (iii.) Temporarily irrigated areas shall be designed as low water use hydrozones.
- (iv.) Special landscape areas shall be clearly identified and their water use calculated as shown in the Water Efficient Landscape Worksheet. Water use for new and existing (non-rehabilitated) special landscape areas shall be calculated with an ETAF not to exceed 1.0.

- b. The landscape project's Maximum Applied Water Allowance (MAWA) shall be calculated as follows:

- (i.) $MAWA = (ET_o) (0.62) [(ETAF \times LA) + (1-ETAF \times SLA)]$, where:
 - a. MAWA = Maximum applied water allowance (gallons per year);
 - b. ET_o = Reference evapotranspiration (inches per year) (as provided in subsection (B)(2) above);

- c. ETAF = ET adjustment factor (.55 for residential and .45 for non-residential);
- d. LA = Landscaped area includes special landscape area (square feet);
- e. 0.62 = Conversion factor (to gallons per square foot);
- f. SLA = Portion of the landscape area identified as special landscape area (square feet);

3. Soil Management Report. In order to reduce runoff and encourage healthy plant growth, a soil management report shall be completed by the project applicant or designee, as follows:

- a. Submit soil sample(s) to a laboratory for analysis and recommendations.
 - (i.) Soil sampling shall be conducted in accordance with laboratory protocol, including protocols regarding adequate sampling depth for the intended plants; and
 - (ii.) The soil analysis shall include:
 - a. Soil texture;
 - b. Infiltration rate determined by laboratory test or soil texture infiltration rate table;
 - c. pH;

- d. Total soluble salts;
- e. Sodium;
- f. Percent organic matter; and
- g. Recommendations for appropriate amendment.

(iii.) In projects with multiple landscape installations (i.e. production home developments) a soil sampling rate of 1 in 7 lots or approximately 15% of the landscape area will satisfy this requirement.

- b. The soil analysis report shall be made available, in a timely manner, to the professionals preparing the landscape and irrigation design plans to make any necessary adjustments.
- c. Any soil management or amendment recommendations shall be included with the design plans for city review.
- d. Upon completion of construction and prior to issuance of an occupancy permit, the project applicant or designee shall submit documentation verifying implementation of soil analysis report recommendations within the landscaped area to the city with the certificate of completion.

4. Landscape Plan. Landscape plans, including plant selection, shall be designed consistent with the applicable specific plan or special planning area design guidelines. At a minimum, landscape design plans shall address the following:
 - a. Plant Materials. The estimated total water use for plants selected for the landscaped area shall not exceed the maximum applied water allowance. The landscape plan shall identify landscape materials, trees, shrubs, groundcover, turf, etc. Planting symbols shall be clearly drawn and plants shall be labeled by botanical name, common name, container size, spacing, and quantities or each group of plants indicated. Planting areas dedicated permanently and solely to edible plants should be clearly delineated. High water use plants, characterized by a plant factor of 0.7 to 1.0, are prohibited in street medians. Methods to achieve water efficiency shall include one or more of the following:
 - (i.) Protection and preservation of native species and natural vegetation;
 - (ii.) Selection of water-conserving plant, tree and turf species, especially local native plants;
 - (iii.) Selection of plants based on local climate suitability, disease and pest resistance;

- (iv.) Selection of trees based on applicable local tree ordinances or tree shading guidelines, and size at maturity as appropriate for the planting area;
 - (v.) Selection of plants from local and regional landscape program plant lists.
 - (vi.) Selection of plants from local Fuel Modification Plan Guidelines.
- b. Plant Selection. Plants shall be selected and planted appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the project site. Methods to achieve water efficiency shall include one or more of the following:
 - (i.) Use the Sunset Western Climate Zone System which takes into account temperature, humidity, elevation, terrain, latitude, and varying degrees of continental and marine influence on local climate;
 - (ii.) Recognize the horticultural attributes of plants (i.e., mature plant size, invasive surface roots) to minimize damage to property or infrastructure [e.g., buildings, sidewalks, power lines]; allow for adequate soil volume for healthy root growth; and
 - (iii.) Consider the solar orientation for plant placement to maximize summer shade and winter solar gain.

- c. Hydrozone Information. Each hydrozone shall contain plant materials with similar water use needs. Hydrozones shall be designated as low, moderate, high water, or mixed water use and shall be labeled by number, letter, or other method. Temporarily irrigated areas of the landscape shall be included in the low water use hydrozone for the water budget calculation. Areas irrigated with recycled water should be clearly delineated. For hydrozones with plants of mixed water use, refer to subsection (B)(5)(b).
- d. Water Features. Water features may be permitted, subject to design review, and the provisions of Chapter 14.09 (Water Conservation).
 - (i.) All water features shall incorporate recirculating water systems.
 - (ii.) Where available, recycled water shall be used as a source for decorative water features.
 - (iii.) The surface area of a water feature shall be indicated on the plans and included in the high water use hydrozone area of the water budget calculation.
- e. Limitations on Turf.
 - (i.) Turf shall not be permitted on slopes greater than 1 foot of vertical elevation change for every 4 feet of horizontal length.

- (ii.) Turf shall not comprise greater than 25 percent of the front yard planting area of developer-installed single-family landscaping.
- (iii.) With the exception of special landscape areas, turf shall not comprise greater than 25 percent of nonresidential landscaped area.
- (iv.) Turf shall not be permitted within the protected zone radius of any native oak tree, as defined in Chapter 19.66.

f. Soil Preparation, Mulch and Amendments.

- (i.) Prior to the planting of any materials, compacted soils shall be transformed to a friable condition. On engineered slopes, only amended planting holes need meet this requirement.
- (ii.) A minimum three-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers or direct seeding applications where mulch is not advisable. The plans shall identify the type of mulch and application depth. Shredded (i.e., “gorilla”) mulch is not acceptable. To provide habitat for beneficial insects and other wildlife, up to 5% of the landscape area may be left without mulch. Designated insect habitat must be included in the landscape design plan as such.
- (iii.) For landscape installations, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be

incorporated to a depth of six inches into the soil. Soils with greater than 6% organic matter in the top 6 inches of soil are exempt from adding compost and tilling.

- (iv.) Organic mulch materials made from recycled or post-consumer shall take precedence over inorganic materials or virgin forest products unless the recycled post-consumer organic products are not locally available. Organic mulches are not required where prohibited by local Fuel Modification Plan Guidelines or other applicable local ordinances.
- (v.) Stabilizing mulching products shall be used on slopes greater than 1 foot of vertical elevation change for every 3 feet of horizontal length.
- (vi.) Required soil amendments and quantities shall be clearly denoted on the plans. Soil amendments shall be incorporated based on the recommendations of the soil report and what is appropriate for the plants selected (see subsection (B)(3)).

g. Other Design Considerations. The landscape design plan, at a minimum, shall:

- (i.) Delineate property lines, utilities and utility easements, streets, driveways, walkways, and other paved areas or hardscapes (pervious or impervious);

- (ii.) Identify buildings and structures including pad elevation(s) if applicable;
- (iii.) Identify natural features to remain, including rock outcroppings, existing oak and ornamental trees, shrubs, etc.;
- (iv.) Identify recreational or other special landscape areas, as defined in Section 14.18.040;
- (v.) Identify the location, installation details and any applicable stormwater best management practices. Projects shall refer to the requirements of the City's Stormwater Quality Design Manual;
- (vi.) Identify any applicable rain harvesting or catchment technologies as discussed in Section 14.18.120 and their 24-hour retention or infiltration capacity.
- (vii.) Identify any applicable graywater discharge piping, system components and area(s) of distribution;
- (viii.) A landscape design plan for projects in fire-prone areas shall address fire safety and prevention. A defensible space or zone around a building or structure is required per Public Resources Code Section 4291(a) and (b). Avoid fire-prone plant materials and highly flammable mulches. Refer to the local Fuel Modification Plan guidelines.
- (ix.) The use of invasive plant species, such as those listed by the California Invasive Plant Council, is strongly discouraged.

- (x.) The architectural guidelines of a common interest development, which include community apartment projects, condominiums, planned developments, and stock cooperatives, shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group.
 - h. Verification. The landscape plan shall contain the following statement: “I have complied with the criteria of the Water Efficient Landscaping Ordinance and applied such criteria for the efficient use of water in the landscape design plan,” which shall be signed by a licensed landscape architect, licensed landscape contractor or any other person authorized to design a landscape plan pursuant to Sections 5500.1, 5615, 5641 et seq., 6701, and 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agriculture Code.
5. Irrigation Plan. This section applies to landscaped areas requiring permanent irrigation, not areas that require temporary irrigation solely for the plant establishment period. For the efficient use of water, an automated irrigation system shall meet all the requirements listed in this section and the manufacturers’ recommendations. The irrigation system and its related components shall be planned and designed to allow for proper installation, management and maintenance.

- a. System Requirements.
 - (i.) Landscape water meters defined as either a dedicated water service meter or private submeter, shall be installed for all non-residential irrigated landscapes of 1,000 sq. ft. but not more than 5,000 sq. ft. (the level at which Water Code 535 applies) and residential irrigated landscapes of 5,000 sq. ft. or greater. A landscape water meter may be either:
 - a. A customer service meter dedicated to landscape use provided by the local water purveyor; or
 - b. A privately owned meter or submeter.
 - (ii.) Automatic irrigation controllers utilizing either evapotranspiration or soil moisture sensor data utilizing non-volatile memory shall be required for irrigation scheduling in all irrigation systems. For single family residential properties, controller shall have a minimum of 8 stations or be upgradable to 8 stations or more. An exception for additional stations may be provided for front yard landscapes that will be maintained by a homeowner's association.
 - (iii.) If the water pressure is below or exceeds the recommended pressure of the specified irrigation devices, the installation of a

pressure regulating device is required to ensure that the dynamic pressure at each emission device is within the manufacturer's recommended pressure range for optimal performance.

- a. If the static pressure is above or below the required dynamic pressure of the irrigation system, pressure-regulating devices such as inline pressure regulators, booster pumps or other devices shall be installed to meet the required dynamic pressure of the irrigation system.
- b. Static water pressure, dynamic or operating pressure and flow reading of the water supply shall be measured at the point of connection. These pressure and flow measurements shall be conducted at the design stage. If the measurements are not available at the design stage, the measurements shall be conducted at installation.
- c. Sensors (rain, freeze, wind, etc.), either integral or auxiliary, that suspend or alter irrigation operation during unfavorable weather conditions shall be required on all irrigation systems, as appropriate for local climatic conditions. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s).

Soil moisture-based controllers are not required to have a rain sensor input. Irrigation should be avoided during windy or freezing weather or during rain.

- d. Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be required, as close as possible to the point of connection of the water supply, to minimize water loss in case of an emergency (such as a main line break) or routine repair.
- e. Backflow prevention devices shall be provided as required by the environmental utilities department to protect the water supply from contamination by the irrigation system.
- f. Flow sensors that detect high flow conditions created by system damage or malfunction are required for all on non-residential landscapes and residential landscapes of 5000 sq. ft. or larger.
- g. Master shut-off valves are required on all projects except landscapes that make use of technologies that allow for the individual control of sprinklers that are individually pressurized in a system equipped with low pressure shut down features.
- h. The irrigation system shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas, such

as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.

- i. Relevant information from the soil management plan, such as soil type and infiltration rate, shall be utilized when designing irrigation systems.
- j. The design of the irrigation system shall conform to the hydrozones delineated on the landscape design plan.
- k. The irrigation system shall be designed and installed to meet irrigation efficiency criteria as described in subsection (B)(2) regarding the maximum applied water allowance.
- l. All irrigation emission devices must meet the requirements set in the American National Standards Institute (ANSI) standard, American Society of Agricultural and Biological Engineers'/International Code Council's (ASABE/ICC) 802-2014 "Landscape Irrigation Sprinkler and Emitter Standard, All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.
- m. Low volume irrigation shall be used in mulched planting areas to maximize water infiltration into the root zone.

- n. Sprinkler heads and other emission devices shall have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations.
- o. Sprinkler spacing shall be designed to achieve the highest possible distribution uniformity using the manufacturer's recommendations.
- p. Swing joints or other riser-protection components shall be provided on all risers subject to damage that are adjacent to hardscapes or in high traffic areas of turf grass.
- q. Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur.
- r. Landscape areas less than ten feet in width in any direction shall be irrigated with subsurface irrigation or low volume irrigation technology or other means that produces no runoff or overspray.
- s. Overhead irrigation shall not be permitted within 24 inches of any non-permeable surface. Allowable irrigation within the setback from non-permeable surfaces may include drip, drip line, or other low volume technology. The setback area may be planted or unplanted. The surfacing of the setback may be mulch, gravel, or other porous material. These restrictions may be modified if:

- i. The landscape area is adjacent to permeable surfacing and no overspray and runoff occurs; or
 - ii. The adjacent non-permeable surfaces are designed and constructed to drain entirely to landscaping; or
 - iii. The irrigation designer specifies an alternative design or technology as part of the landscape package, and clearly demonstrates strict adherence to irrigation system design criteria in subsection (B)(5). Prevention of overspray and runoff must be demonstrated and confirmed during the irrigation audit.
- t. Slopes greater than 1 foot of vertical elevation change for every 4 feet of horizontal length shall not be irrigated with an irrigation system with an application rate exceeding 0.75 inches per hour. This restriction may be modified if the landscape designer specifies an alternative design or technology, as part of the landscape package, and clearly demonstrates no runoff or erosion will occur. Prevention of runoff and erosion must be demonstrated and confirmed during the irrigation audit.

- u. Irrigation design plans that incorporate use of recycled water shall comply with the requirements of the city's design standards for on-site recycled water systems.

b. Hydrozone.

- (i.) Each valve shall irrigate a hydrozone with similar site, slope, sun exposure, soil conditions and plant materials with similar water use.
- (ii.) Sprinkler heads and other emission devices shall be selected based on their appropriateness for the plant type within that hydrozone.
- (iii.) Where feasible, trees shall be placed on separate valves from shrubs, groundcovers, and turf to facilitate the appropriate irrigation of trees. The mature size and extent of the root zone shall be considered when designing irrigation for the tree.
- (iv.) Individual hydrozones that mix plants of moderate and low water use or moderate and high water use may be allowed if:
 - a. The plant factor calculation is based on the proportions of the respective plant water uses and their plant factor; or
 - b. The plant factor of the higher water using plant is used for calculations.

- (v.) Individual hydrozones that mix high and low water use plants shall not be permitted.
 - (vi.) On the landscape design plan and irrigation design plan, hydrozone areas shall be designated by number, letter, or other designation. On the irrigation design plan, designate the areas irrigated by each valve, and assign a number to each valve. Use this valve number in the Hydrozone Information Table (see Water Efficient Landscape Worksheet). This table can also assist with the irrigation audit and programming the controller.
- c. The irrigation plan, at a minimum, shall identify:
- i. Location and size of separate water meters for landscape;
 - ii. Location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators and backflow prevention devices;
 - iii. Static water pressure at the point of connection to the public water supply;
 - iv. Flow rate (gallons per minute), application rate (inches per hour) and design operating pressure (pressure per square inch) for each station;
 - v. Recycled water irrigation systems as specified in Section 14.18.100.

d. The irrigation plan shall contain the following statement: “I have complied with the criteria of the Water Efficient Landscaping Ordinance and applied such criteria for the efficient use of water in the irrigation plan,” which shall be signed by a licensed landscape architect, certified irrigation designer, irrigation consultant, licensed landscape contractor or any other person authorized to design an irrigation system pursuant to Sections 5500.1, 5615, 5641 et seq., 6701, and 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agriculture Code.

6. Grading and Drainage Plan. For the efficient use of water, grading of a project site shall be designed to minimize soil erosion, runoff and water waste. A grading and drainage plan shall be submitted as part of the Landscape Documentation Package. The grading and drainage plan prepared by a civil engineer and submitted for improvement plan review in association with a development project may also satisfy this requirement.

a. In addition to other city grading design standards, the grading plan shall include the following information:

- (i.) Height of graded slopes;
- (ii.) Drainage patterns;

- (iii.) Proposed underground and in-ground drainage improvements;
- (iv.) Pad elevations; and
- (v.) Finish grade.

b. Stormwater retention or treatment improvements, if applicable.

c. Verification. The grading and drainage plan shall contain the following statement: "I have complied with the criteria of the Water Efficient Landscaping Ordinance and applied such criteria for the efficient use of water in the grading and drainage plan," which shall be signed by a licensed professional as required by law.

C. Approval Required. Upon approval of the landscape package by the city, and provided all other applicable city requirements are met, the project applicant shall:

1. Receive from the city a permit or approval and record the date of the permit or approval in the certificate of completion; and
2. Submit a copy of the approved landscape package along with the record drawings, and any other information to the property owner or designee.

14.18.060 Landscape Certificate of Completion.

A. Prior to issuance of a certificate of occupancy, a signed landscape certificate of completion shall be submitted to the Planning Division on a form prescribed by the

Environmental Utilities Director or his designee that shall include the following information and documentation:

1. Date, project name, project address, applicant name, telephone, and mailing address;
2. Property owner name, telephone, and mailing address;
3. Certification by either the signer of the landscape design plan, the signer of the irrigation design plan, or the licensed landscape contractor that the landscape project has been installed per the approved landscape package:
 - a. Where there have been significant changes made in the field during construction, these “as-built” or record drawings shall be included with the certification;
 - b. A diagram of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes.
4. Irrigation audit report (see Section 14.18.080);
5. Scheduling parameters used to set the irrigation controller (see Section 14.18.070);

6. Landscape and irrigation maintenance schedule (see Section 14.18.070); and
 7. Soil analysis report, if not initially submitted with the landscape package, and documentation verifying implementation of soil management report recommendations.
- B. The project applicant shall ensure that copies of the approved landscape certificate of completion are submitted to the City and property owner or his/her designee.
- C. Following receipt and review, the City shall either approve or deny the landscape certificate of completion. If the landscape certificate of completion is denied, the City shall not be obligated to issue an occupancy permit and will provide information to the project applicant regarding necessary corrections, appeal, or other assistance.

14.18.070 Irrigation Scheduling and Maintenance.

- A. Irrigation Scheduling. For the efficient use of water, all irrigation schedules shall be developed, managed and evaluated to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:
1. Irrigation scheduling shall utilize automatic irrigation systems and evapotranspiration data.

2. Overhead irrigation using potable water shall be scheduled between 8:00 p.m. and 10:00 a.m. unless it is demonstrated that weather conditions are unfavorable or would result in detriment to plant health. Operation of the irrigation system outside the normal watering window is permitted for auditing and system maintenance.
3. The irrigation schedule shall factor irrigation run times, emission device, flow rate, and current reference evapotranspiration, so that applied water meets the Estimated Total Water Use. Total annual applied water shall be less than or equal to Maximum Applied Water Allowance.
4. Using an appropriate controller, an annual irrigation program with monthly irrigation schedules shall be developed and submitted to the City for each of the following:
 - a. The plant establishment period;
 - b. The established landscape; and
 - c. Temporarily irrigated areas.
5. Irrigation schedules shall consider the following:

- a. Irrigation interval (days between irrigation);
- b. Irrigation run times (hours or minutes per irrigation event to avoid runoff);
- c. Number of cycle starts required for each irrigation event to avoid runoff;
- d. Amount of applied water scheduled to be applied on a monthly basis;
- e. Application rate setting;
- f. Root depth setting;
- g. Plant type setting;
- h. Soil type;
- i. Slope factor and shade factor setting;
- j. Irrigation uniformity or efficiency setting.

B. Landscape and Irrigation Maintenance

1. Landscaping shall be maintained to ensure water use efficiency. A regular maintenance schedule shall be submitted with the landscape certificate of completion.
2. A regular maintenance schedule shall include, but is not limited to: routine inspection; auditing; adjustment and repair of the irrigation system and its components; aerating and de-thatching turf areas; top dressing with compost; replenishing mulch; fertilizing; pruning; weeding in all landscaped areas and removing any obstruction to emission devices.
3. Irrigation equipment shall be repaired or replaced with the originally installed components or equivalents or with components with greater efficiency.
4. A project applicant is encouraged to implement established landscape industry sustainable Best Practices for all landscape maintenance activities.

14.18.080 Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis.

A. All landscape irrigation audits shall be conducted by a third party certified landscape irrigation auditor. Landscape audits shall not be conducted by the person who designed the landscape or installed the landscape.

B. In large projects or projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or approximately 15% of the project's irrigation valves will satisfy this requirement.

C. For new construction and rehabilitated landscape projects installed after December 1, 2015, as described in Section 14.18.030.

1. The project applicant shall submit an irrigation audit report with the Certificate of Completion to the local agency that may include, but is not limited to: inspection, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming;
2. The City shall administer programs that may include, but not be limited to, irrigation water use analysis, irrigation audits, and irrigation surveys for compliance with the Maximum Applied Water Allowance.

14.18.090 Irrigation Efficiency.

For the purpose of determining the Estimated Total Water Use, average irrigation efficiency is assumed to be 0.75 for overhead spray devices and 0.81 for drip system devices.

14.18.100 Use of Recycled Water for Irrigation.

A. In addition to the requirements contained in this Chapter, landscape and irrigation plans for sites utilizing recycled water shall be designed consistent with the requirements of Chapter 14.17 (Recycled Water Service), and the City's Rules and Regulations for Use of Recycled Water.

B. Irrigation systems shall be designed and constructed to allow the use of recycled water where such recycled water is available or may become available in the future.

C. Irrigation systems shall use recycled water, if available, unless a written exemption has been granted by the City stating that recycled water meeting all public health codes and standards is not available and will not be available for the foreseeable future.

D. Landscaping using recycled water are considered Special Landscape Areas. The ET Adjustment Factor for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.

14.18.110 Use of Greywater Systems.

Graywater systems promote the efficient use of water and are encouraged to assist in on-site landscape irrigation. All graywater systems shall conform to the California Plumbing Code and

any applicable City ordinance standards. Refer to 14.18.030 for the applicability of this ordinance to landscape areas less than 2,500 square feet with the Estimated Total Water Use met entirely by graywater.

14.18.120 Stormwater Management and Rainwater Retention.

A. Stormwater management best practices incorporated into the landscape shall comply with the requirements of the City's Stormwater Quality Design Manual.

B. All planted landscape areas are required to have friable soil to maximize water retention and infiltration. Refer to Section 14.18.050(4)(f).

C. It is strongly recommended that landscape areas be designed for capture and infiltration capacity that is sufficient to prevent runoff from impervious surfaces (i.e. roof and paved areas) from either: the one inch, 24-hour rain event or (2) the 85th percentile, 24-hour rain event, and/or additional capacity as required by any applicable local, regional, state or federal regulation.

D. It is recommended that storm water projects incorporate any of the following elements to improve on-site storm water and dry weather runoff capture and use:

1. Grade impervious surfaces, such as driveways, during construction to drain to vegetated areas.

2. Minimize the area of impervious surfaces such as paved areas, roof and concrete driveways.
3. Incorporate pervious or porous surfaces (e.g., gravel, permeable pavers or blocks, pervious or porous concrete) that minimize runoff.
4. Direct runoff from paved surfaces and roof areas into planting beds or landscaped areas to maximize site water capture and reuse.
5. Incorporate rain gardens, cisterns, and other rain harvesting or catchment systems.
6. Incorporate infiltration beds, swales, basins and drywells to capture storm water and dry weather runoff and increase percolation into the soil.
7. Consider constructed wetlands and ponds that retain water, equalize excess flow, and filter pollutants.

14.18.130 Public Education.

- A. The City shall make available information regarding the design, installation, management, and maintenance of water efficient landscaping based on a water budget in

permitted renovations or new single family residential homes. Said information may be provided in the form of print, electronic, or similar media deemed practical by the City.

B. Model Homes. All model homes that are landscaped shall use signs and written information to demonstrate the principles of water efficient landscaping described in this Chapter.

1. Signs shall be used to identify the model as an example of a water efficient landscape and featuring elements such as hydrozones, irrigation equipment and others which that contribute to the overall water efficient theme. Signs shall include information about the site water use as designed per the local ordinance; specify who designed and installed the water efficient landscape; and demonstrate low water use approaches to landscaping such as using native plants, graywater systems, and rainwater catchment systems.
2. Information shall be provided regarding designing, installing, managing, and maintaining water efficient landscaping.

14.18.140 Provisions for Existing Landscaping installed prior to December 1, 2015.

A. Irrigation Water Use Analysis and Monitoring.

1. For all existing landscaping installed prior to December 1, 2015 with a dedicated or mixed-use water meter that is one acre or more, including golf courses, green belts, common areas, multifamily housing, schools, businesses, parks, cemeteries and publicly owned landscaping, the City shall offer programs that may include, but not be limited to, irrigation water use analyses, and irrigation surveys to verify that landscape water use does not exceed the Maximum Applied Water Allowance for existing landscaping. The City may require mandatory irrigation audits conducted at property owners' expense to demonstrate that existing landscaping comply with the Maximum Applied Water Allowance.
2. For all existing landscaping over one (1) acre in size that do not have a meter, the City shall offer programs that may include irrigation surveys and irrigation audits that verify proper operation of the irrigation system and prevent water waste.

B. Maximum Applied Water Allowance for existing landscaping shall be calculated as:

$$\text{MAWA} = (0.8)(\text{ETo})(\text{LA})(0.62).$$

C. Required landscape irrigation audits shall be conducted by a certified landscape irrigation auditor.

D. Effective Precipitation. The City may consider Effective Precipitation (not to exceed 25% of annual precipitation) in tracking water use and may use the following equation to

calculate Maximum Applied Water Allowance for landscaping installed before December 1, 2015:

1. $MAWA = (ET_o - Eppt) (0.62) [(0.55 \times LA) + (0.45 \times SLA)]$ for residential areas.
2. $MAWA = (ET_o - EPPT) (0.62) [(0.45 \times LA) + (0.55 \times SLA)]$ for non-residential areas.

14.18.150 Enforcement.

A. It shall be the duty of the Environmental Utilities Director or his designee to enforce the provisions of this Chapter. All departments, officials and public employees vested with the duty or authority to issue permits or licenses shall not issue a permit or license for uses, buildings or purposes in conflict with the provisions of this Chapter and any such permit or license issued in conflict with the provisions of this Chapter shall be null and void. The Environmental Utilities Director or his designee may delegate enforcement responsibilities to other City employees.

B. Any landscaping that is installed, constructed, altered, enlarged, converted, moved, or maintained contrary to the provisions of this Chapter, or failure to comply with any of the conditions of a permit or variance granted under this Chapter is declared to be unlawful. The City Attorney may initiate an action or proceeding to enforce the provisions of this Chapter, as appropriate.

14.18.160 Penalties.

Any property owner, person, firm, or corporation, whether as principal, agent, employee or otherwise, violating any provision of this Chapter shall be guilty of a misdemeanor, and upon conviction thereof shall be punishable by a fine of not more than \$500.00 or by imprisonment in the County Jail for a term not exceeding six (6) months, or by both. The City Attorney in his or her discretion may reduce any violation of this Chapter to an infraction, punishable by a fine of not more than \$250.00. Any property owner, person, firm, or corporation shall be deemed guilty of a separate offense for each and every day during any portion of which any violation of this Chapter is committed, continued or permitted by such person, firm or corporation, and shall be deemed guilty of a separate offense for each and every day during any portion of which any violation of this Chapter is committed, continued or permitted by such person, firm or corporation, and shall be punishable as provided herein. Penalties under the administrative enforcement provisions of Chapter 2.52 of this code may be imposed in lieu of, but not in addition to, penalties imposed by the court for any single violation.

14.18.170 Reporting.

The City shall report on implementation and enforcement of the WELO by December 31, 2015. Subsequently, reporting for the City will be done by January 31st of each year. Reports shall be submitted to the Department of Water Resources (DWR) and address the criteria requested by DWR.

SECTION 3. This ordinance shall be effective at the expiration of thirty (30) days from the date of adoption.

SECTION 4. The City Clerk is hereby directed to cause this ordinance to be published in full at least once within fourteen (14) days after it is adopted in a newspaper of general circulation in the City, or shall within fourteen (14) days after its adoption cause this ordinance to be posted in full in at least three (3) public places in the City and enter in the Ordinance Book a certificate stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20__, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk