Meeting Date: **6/24/2014**

Report Type: Consent

Report ID: 2014-00409

26

City of SACRAMENTO

City Council Report
915 I Street, 1st Floor
www.CityofSacramento.org

Title: Little Pocket and Tahoe Park Water Main Replacement Project (Reviewed 06/17/14)

Location: Districts 4 and 6

Recommendation: Pass a Motion 1) approving the contract plans and specifications for the project; and 2) awarding the contract to Navajo Pipelines, Inc., for an amount not to exceed $6,641,660.

Contact: Bill Busath, Manager, Engineering and Water Resources, (916) 808-1434; Dan Sherry, Supervising Engineering, Engineering and Water Resources, (916) 808-1419, Department of Utilities

Presenter: None

Department: Department Of Utilities
Division: Engineering & Water Resources
Dept ID: 14001311
Attachments:
1-Description/Analysis
2-Background
3-Location Map
4-Agreement

City Attorney Review

Approved as to Form
Joe Robinson
6/4/2014 3:01:26 PM

Approvals/Acknowledgements

Department Director or Designee: Dave Brent - 5/29/2014 5:26:53 PM

James Sanchez, City Attorney Shirley Concolino, City Clerk Russell Fehr, City Treasurer
John F. Shirey, City Manager

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Description/Analysis

Issue Detail: This project installs water meters required under Assembly Bill 2572 and replaces water distribution mains that are at the end of their useful life. Approximately 44,400 lineal feet of water main and 800 meters will be placed as part of this project.

Policy Considerations: This action is in conformance with City Code Chapter 3.60 Articles I and III, which provide that the City Council may award competitively bid contracts to the lowest responsible bidder.

This report's recommendation is consistent with the City's General Plan Goals of enhancing and preserving the neighborhoods and supporting the economic vitality of the area.

Economic Impacts: This infrastructure repair project is expected to create 26.6 total jobs (15.3 direct jobs and 11.3 jobs through indirect and induced activities) and create $4,100,800 in total economic output ($2,584,800 of direct output and another $1,516,000 of output through indirect and induced activities).

The indicated economic impacts are estimates calculated using a calculation tool developed by the Center for Strategic Economic Research (CSER). CSER utilized the IMPLAN input-output model (2009 coefficients) to quantify the economic impacts of a hypothetical $1 million of spending in various construction categories within the City of Sacramento in an average one-year period. Actual impacts could differ significantly from the estimates and neither the City of Sacramento nor CSER shall be held responsible for consequences resulting from such differences.

Environmental Considerations: The Community Development Department, Environmental Planning Services Division, has reviewed the proposed project and has determined that this project is categorically exempt from the California Environmental Quality Act (CEQA), under CEQA Guidelines Section numbers 15302(c) and 15303. The project would have no significant impact on the environment. The project consists of: the replacement of existing water utility systems involving negligible expansion of capacity (CEQA Guidelines Section 15302(c)); and the installation of new water meters (equipment) (CEQA Guidelines Section 15303).

Sustainability: The project is consistent with the Sustainability Master Plan goals to improve water conservation awareness, by providing a monthly statement of water usage to the customers. The placement of water meters, where none previously existed, also furthers the City's progress in implementing the Water Forum Agreement and California Urban Water Conservation Council Best Management Practices (BMPs 1, 4, and 7).

Commission/Committee Action: Not Applicable

Rationale for Recommendation: After the plans and specifications were completed by the Engineering & Water Resources Division, the project was formally advertised to solicit public bids. On May 7, 2014 the City Clerk opened five bids. Staff recommends award of the contract to the low bidder, Navajo Pipelines, Inc., as the lowest responsive and responsible bidder.

Financial Considerations: The total estimated project cost including design, construction, City supplied materials, inspection, and contingency is $8,300,000. There is sufficient funding in Z14010065 (Water Revenue Bond Ser. 2013, Fund 6310) to award the contract and complete the project. This action has no impact on the General Fund.

Local Business Enterprise (LBE): This project included a minimum participation level of 5% for local business enterprises (LBEs) as required by Ordinance 2013-0036 and Resolution 2013-0373. The lowest responsible bidder, Navajo Pipelines, Inc. exceeds the LBE minimum participation level with a participation level of 98.7%.

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BACKGROUND

The proposed project will replace existing water distribution mains and install new water meters in the Little Pocket and Tahoe Park areas as part of the City's Water Meter Retrofit Program. The purpose of this program is to meet the requirements of Assembly Bill 2572 and City Ordinance 2005-090, which require the installation of water meters on all water service connections by the year 2025.

The existing water distribution system within the project boundaries consists of old cast iron and transite mains located in residential backyards and thin walled welded steel water mains located in front yards. These aging mains require frequent maintenance to repair leaks and have passed or are approaching the end of their useful life. Fire protection is inadequate in segments of the project area due to poor fire hydrant spacing. Therefore, additional fire hydrants will be added to the area to improve the existing fire protection.

The project objective is to improve water system reliability, increase fire protection, and advance the City's obligation to meet AB 2572 requirements. This will be accomplished by the following:

- Abandoning existing residential backyard water mains and steel mains located in front yards.
- Constructing approximately 44,400 lineal feet of new water mains within the public right of way.
- Install new fire hydrants to meet current fire safety standards.
- Construct 785 new residential water services with water meters.
- Retrofit 15 existing residential water services with new water meters.

To provide residents within the area notice of the project and an opportunity to express any concerns regarding the project, the Department of Utilities will distribute an informational letter or postcard containing pertinent project information and contact numbers. The Outreach plan also includes:

- Preconstruction notification postcards and project signs.
- Informational door hangers will be provided by the Contractor at project milestones, including 7 day and 24 hour notices for work performed on private property.
- Water conservation packets will be provided to residents following the water meter installation.

This project was advertised and five bids were received and opened on May 7, 2014. The bids are summarized below:

	Bidders	Bid Amount
1	Navajo Pipelines, Inc.	$6,641,659.75
2	T & S Construction Company	$6,733,232.00
3	A. Teichert & Son, Inc.	$6,805,010.00
4	Preston Pipelines, Inc.	$7,285,747.00
5	Mountain Cascade, Inc.	$10,730,423.00

Navajo Pipelines, Inc. was the low bidder, with a bid amount of $6,641,659.75. The engineer's estimate was $7,375,000.

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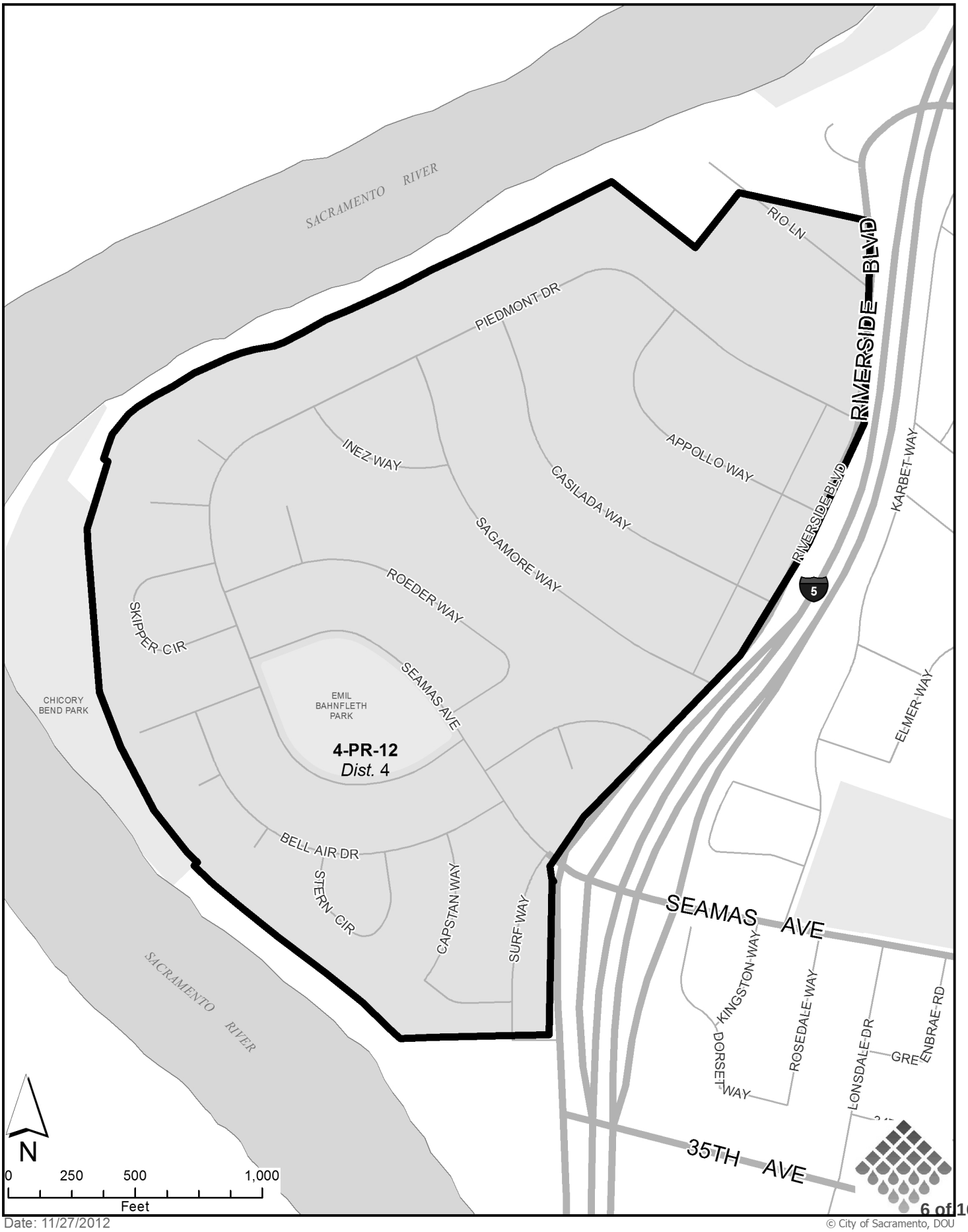
LOCATION MAP

Little Pocket Water Main Replacement Project

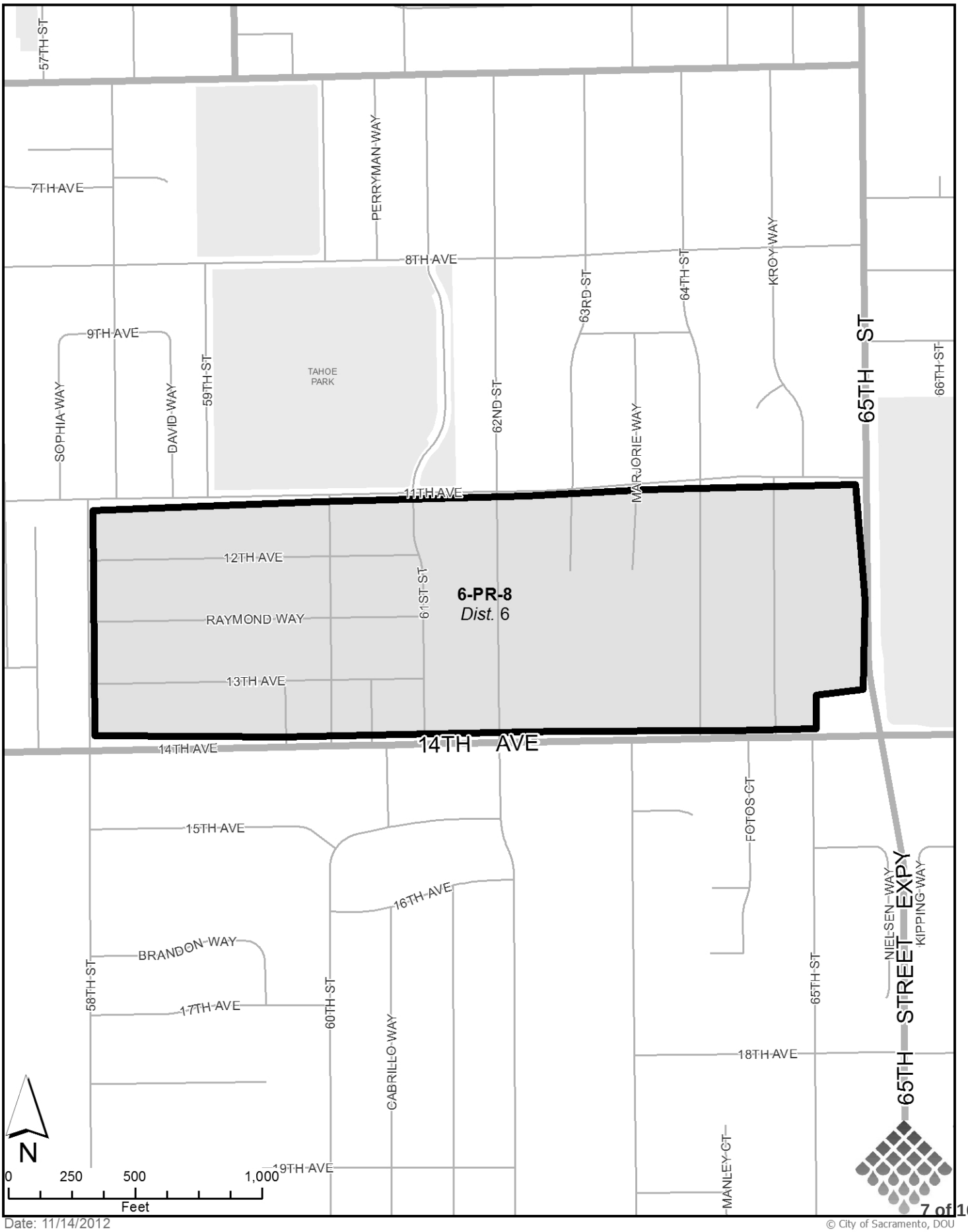


Date: 11/27/2012

© City of Sacramento, DOU

LOCATION MAP

Tahoe Park Water Main Replacement Project



Date: 11/14/2012

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City of SACRAMENTO
Department of Utilities

ENGINEERING SERVICES DIVISON

CONTRACT SPECIFICATIONS
FOR

LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT

PN: Z14010065
B14141321018
Engineer's Estimate: 7,375,000

For Pre-Bid Information Call:	Separate Plans
Jesus Reyes Assistant Engineer (916) 808-1721	Bid to be received before 2:00 PM **May 7, 2014** City Hall, Office of the City Clerk 915 I Street, 1st Floor, Room 1119 Sacramento, CA 95814

LBE Program Participation

For information on meeting the City of Sacramento's Local Business Enterprise (LBE) project goals, please contact Lorrie Lowry at (916) 808-5448, or visit the City of Sacramento's small business web site at: http://www.cityofsacramento.org/econdev/business-open/small-business-certification.cfm

LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT
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SPECIAL PROVISIONS

LBE INFORMATION

The City of Sacramento's Local Business Development (LBE) program establishes an annual local business enterprise (LBE) participation goal for City contracts, and authorizes City departments to require minimum LBE participation levels in individual contracts. Under City Code section 3.60.270, all bidding contractors must meet or exceed participation goals established for this project in order to qualify as a responsible bidder.

For information on meeting the City of Sacramento's Local Business Enterprise (LBE) project goals, please contact Lorrie Lowry at (916) 808-5448, or visit the City of Sacramento's small business web site at: http://www.cityofsacramento.org/econdev/business-open/small-business-certification.cfm

NOTICE TO CONTRACTORS

CITY OF SACRAMENTO

Sealed Proposals will be received by the City Clerk of the City of Sacramento at the Office of the City Clerk, New City Hall, located at 915 I Street, 4th Floor, Public Counter, up to the hour of 2:00 PM, on **May 7, 2014** and opened and read after 2:00 PM on **May 7, 2014**, or as soon thereafter as business allows, in the Hearing Room, 2nd Floor Room, in Historic City Hall, for construction of:

LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT
(PN: Z14010065) (B14141321018)

as set forth in the Construction Documents.

Proposals received and work performed thereunder shall comply with the requirement of Chapter 3 of the Sacramento City Code. Each Bid Proposal shall be accompanied by bid security of at least 10% of the sum the Bid Proposal. The right to reject proposals or to waive any error or omission in any Bid Proposal received is reserved by the City. Signed proposals shall be submitted on the printed forms contained herein and enclosed in an envelope marked:

SEALED PROPOSAL FOR
LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT
(PN: Z14010065**) (B14141321018)**

LBE CERTIFICATIONS ARE DUE BY THE CLOSE OF BUSINESS TWO DAYS AFTER BID OPENING to:
Jesus Reyes, Department of Utilities, Engineering Services Division
1395 35th Avenue, Sacramento, CA 95822
Phone: (916) 808-1721 / Fax: (916) 808-1497/ Email: JReyes@cityofsacramento.org

You can view and download the plans and Contract Documents from:

PLANET BIDS
http://www.planetbids.com/portal/portal.cfm?CompanyID=15300#

Subcontractors shall comply with the rates of wages currently established by the Director of Industrial Relations under provisions of Sections 1773 of the Labor Code of the State of California, a copy of which is on file in the office of the City Clerk. In accordance with Sacramento City Code Section 3.60.180 and Section 1771.5 of the California Labor Code, the payment of the general prevailing rate of per diem wages or the general prevailing rate of per diem wages for holiday and overtime is not required for any Public Construction project of $25,000 or less, or Public Maintenance project of $15,000 or less. The City of Sacramento has an approved Labor Compliance Program. **The City uses an electronic system for the submission of Labor Compliance Reports, which became effective May 1, 2007.** Each contractor and every lower-tier subcontractor submits certified payrolls and labor compliance documentation electronically at the discretion of and in the manner specified by the City of Sacramento.

Electronic submittal is via a web-based system, accessed on the World Wide Web by a web browser. Each contractor and subcontractor is given a Log On identification and password to access the City of Sacramento's reporting system.

Use of the system may entail additional data entry of weekly payroll information including; employee identification, labor classification, total hours worked and hours worked on this project, wage and benefit rates paid, etc. The contractor's payroll and accounting software might be capable of generating a 'comma delimited file' that will interface with the software.

Disseminate these provisions to every lower-tier subcontractor and vendor required to provide labor compliance documentation.

All questions regarding this Labor Compliance Program should be directed to the department's contracts staff or Contracts Services at (916) 808-4011.

Pursuant to Sacramento City Code Section 3.60.250, any Agreement awarded pursuant to this Invitation to Bid shall contain a provision permitting the substitution of securities for any monies withheld to ensure performance under the Agreement. The terms of such provisions shall be according to the requirements and the form required by the City.

Bid protests must be filled and maintained in accordance with the provisions of Sections 3.60.460 through 3.60.560 of the Sacramento City Code. Bid protests that do not comply with Sections 3.60.460 through 3.60.560 of the Sacramento City Code shall be invalid and shall not be considered. A bid protest fee of $750.00 is required at the time of filing to be considered valid in accordance with City of Sacramento Resolution No. 2003-231 dated April 29, 2003. As used herein, the term "bid protest" includes any bid protest that (1) claims that one or more bidders on this contract should be disqualified or rejected for any reason, or (2) contests a City staff recommendation to award this contract to a particular bidder, or (3) contests a City staff recommendation to disqualify or reject one or more bidders on this contract. A copy of Sections 3.60.460 through 3.60.560 of the Sacramento City Code may be obtained from the Project Manager, or from the City Clerk, located at 915 I Street, 5th Floor, Sacramento, CA 95814.

THE FOLLOWING DOCUMENTS

ARE TO BE COMPLETED AND

SUBMITTED WITH THE BID PACKAGE

Contractor's Name: _____
(Please print)

CITY OF SACRAMENTO

SEALED PROPOSAL

(MUST BE SIGNED BY BIDDER)

The Sealed Proposal will be received not later than **May 7, 2014**, at the Office of the City Clerk, New City Hall, at 915 I Street, 4th Floor, Public Counter, Sacramento, California and opened at 2:00 PM, or as soon thereafter as business allows, on **May 7, 2014**, by the Office of the City Clerk, 915 I Street, Historic City Hall, Hearing Room, 2nd Floor, Sacramento, California.

TO THE HONORABLE CITY COUNCIL:

The undersigned hereby proposes and agrees to furnish any and all required labor, material, transportation, and services for

LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT
(PN: Z14010065) (B14141321018)

in the City and County of Sacramento, California.

TOTAL BID: _____ ($_____).

The work herein described is to be performed in strict conformity with the Plans, City of Sacramento Standard Specifications (Resolution No. 89-216) and these Special Provisions, all as on file in the Office of the City Clerk, at the following unit prices.

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total
1	Construction Photographs or Video	1	LS	$_____	$_____
2	Mobilization (3% or less of total base bid)	1	LS	$_____	$_____
3A	6" Diameter Water Main, Furnish & Install	285	LF	$_____	$_____
3B	8" Diameter Water Main, Furnish & Install	14,092	LF	$_____	$_____
3C	12" Diameter Water Main, Furnish & Install	7,330	LF	$_____	$_____
4A	DIP Only 6" Water Main, Furnish & Install	1,200	LF	$_____	$_____
4B	DIP Only 8" Water Main, Furnish & Install	21,525	LF	$_____	$_____
5A	6" Gate Valve, Furnish & Install	9	EA	$_____	$_____
5B	8" Gate Valve, Furnish & Install	193	EA	$_____	$_____
5C	12" Gate Valve Furnish & Install	21	EA	$_____	$_____
6	2" Blow-off, Furnish & Install	17	EA	$_____	$_____
7	Standard Fire Hydrant, Furnish & Install	88	EA	$_____	$_____
8	Existing Fire Hydrant to Remove	69	EA	$_____	$_____
9	2" and Smaller Substandard Water Service to Replace	15	EA	$_____	$_____
10A	1" Water Service w/ Meter Box, Furnish & Install (main to meter box or main to beyond	219		$_____	$_____

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total
	existing curb stop)		EA		
10B	2" Water Service w/ Meter Box, Furnish & Install (main to meter box)	5	EA	$_____	$_____
11A	Hybrid Water Service w/ Meter Box (main to front/side hose bib), Furnish & Install	489	EA	$_____	$_____
11B	Hybrid Water Service w/ Meter box (main to rear hose bib), Furnish & Install	51	EA	$_____	$_____
11C	1 ½" Water Service w/ Meter Box (main to front or rear hose bib), Furnish & Install	11	EA	$_____	$_____
11D	2" Water Service w/ Meter Box (main to front or rear hose bib), Furnish & Install	3	EA	$_____	$_____
12A	Meter Retrofit of 1" and Smaller Water Services	6	EA	$_____	$_____
12B	Meter Retrofit of 1 ½" to 2" Water Services	7	EA	$_____	$_____
12C	Meter Retrofit of 3" and 4" Water Services	2	EA	$_____	$_____
13A	Additional 1 ½" Water Pipe, Furnish & Install	1,000	LF	$_____	$_____
13B	Additional 2" Water Pipe, Furnish & Install	500	LF	$_____	$_____
14	2-Inch and Smaller Water Service to Existing Meter Box, Furnish and Install (main to meter box)	8	EA	$_____	$_____
15	Connection to Existing Water Distribution System	20	EA	$_____	$_____
16	Water Service, to Abandon	555	EA	$_____	$_____
17	1 ½ " SCH 40 PVC Pipe, Furnish & Install	1,000	LF	$_____	$_____
18	Mains to Cap	6	EA	$_____	$_____
19	Existing Valves, Tees, Saddles, and Water Mains, Remove or Abandon	1	LS	$_____	$_____
20	Water Quality, Provide	1	LS	$_____	$_____
21	Concrete, Remove & Replace	6,800	SF	$_____	$_____
22	Asphaltic Concrete, Remove & Replace	11,100	SF	$_____	$_____
23	Unsuitable Material, Remove & Replace	3,000	TON	$_____	$_____
24	Potholes	40	EA	$_____	$_____
25	Temporary Potable Water Supply System	1	LS	$_____	$_____
26	Trench Sheeting, Shoring and Bracing to Furnish and Install	1	LS	$_____	$_____

TOTAL BID: $_____

If awarded the contract, the undersigned shall execute said contract and furnish the necessary bonds within ten (10) days after the notice of award of said contract and begin work within fifteen (15) days after the signing of the contract by the Contractor and the City or the Notice to Proceed has been prepared, whichever is applicable.

In determining the amount bid by each bidder, City shall disregard mathematical errors in addition, subtraction, multiplication and division that appear obvious on the face of the Proposal. When such a mathematical error appears on the Proposal, the City shall have the right to correct such error and to compute the total amount bid by said bidder on the basis of the corrected figure or figures.

When the unit price of an item is required to be set forth in the Proposal, and the total for the item set forth separately does not agree with a figure derived by multiplying the item unit price times the Engineer's estimate of the quantity of work to be performed for said item, the item unit price shall prevail over the sum set forth as the total for the item unless, in the sole discretion of the City, such a procedure would be inconsistent with the policy of the City's bidding procedures. The total paid for each such item of work shall be based upon the item unit price and not the total price.

Should the Proposal contain only a total price for an item and the item unit price is omitted, the City shall determine the item unit price by dividing the total price of the item by the Engineer's estimate of the quantity of work to be performed for the item of work.

If the Proposal contains neither the item price nor the total price for the item, then it shall be deemed incomplete and the Proposal shall be disregarded.

It is understood that this bid is based upon completion of the work within a period **of two hundred forty (240) working days** commencing on the date specified in the Notice to Proceed.

The amount of liquidated damages to be paid by the Contractor for failure to complete the work by the completion date (as extended, if applicable) shall be **one thousand two hundred dollars ($1,200.00) for each calendar day**, continuing to the time at which the work is completed. Such amount is the actual cash value agreed upon as the loss to the City resulting from the default of the Contractor.

The undersigned represents and warrants that he/she has examined the location of the proposed work and is familiar with the conditions at the place where the work is to be done. The undersigned further represents that he/she has reviewed and understands the Plans, Special Provisions, and other contract documents, and the undersigned is satisfied with all conditions for the performance of the work. **Additionally, the undersigned shall include written documentation with the Sealed Proposal of previous satisfactory experience in installation of water main pipeline, in accordance with the following:**

- **The undersigned shall provide documentation up to *two (2) projects combined and equal of* similar scope for the placement of *7,500 feet of pipe and minimum of 200 services placed or meter retrofits*, performed by the undersigned for a municipality or other public agency within the last five years. The documentation for each project shall describe the work performed, including the size and length of pipeline installed, the type of water main material installed, the contract amount and duration, and the time period of performance, and shall include the name, address and telephone number of the owner agency or municipality. The documentation also shall include the name of a contact person for each owner who is familiar with the work performed. The above documentation shall be included with the Sealed Proposal.**

Please note that information included in the above documentation and/or obtained from such other owner agency or municipality or from another source regarding the bidder's performance on another public project also may be used by the City in determining whether the bidder is a responsible bidder.

The undersigned has carefully checked all of the above figures and understands that the City of Sacramento will not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

This proposal shall not be withdrawn for the time periods specified in Section 3-2 of the City of Sacramento Standard Specifications for award of contract to respective low bidders. This proposal is submitted in accordance with Chapter 3.60 of the Sacramento City Code and Sections 1, 2, and 3 of the City of Sacramento Standard Specifications.

In accordance with Standard Specification Section 3-2, the City shall award this contract to the lowest responsible bidder, if such award is made, within forty-five (45) working days after opening of the Proposals. The City reserves the right to reject any and all bids.

BID DEPOSIT ENCLOSED IN THE FOLLOWING FORM:

$_____not less than ten (10) percent of amount bid.

____CERTIFIED CHECK

____MONEY ORDER

____CASHIERS'S CHECK

____BID BOND

FOR CITY USE ONLY

TYPE OF DEPOSIT

- ☐ Bid Bond
- ☐ Cashier/Certified Check
- ☐ Other_____

Reviewer's Initials: _____

CONTRACTOR

Addendum No. 1 _____ _____

Addendum No. 2 _____ By:_____
(Signature)

Addendum No. 3 _____ Title:_____

Addendum No. 4 _____ Address:_____
No PO Box – Physical Address ONLY

_____
City STATE ZIIP Code

Telephone No. _____

Fax No. _____

Email _____

(Federal Tax ID # or Social Security #)
Under penalty of perjury, I certify that the Taxpayer Identification Number and all other information provided here are correct.

_____

Valid Contractor's License No. _____, Classification _____ is held by the bidder.

Expiration date _____. Representation made herein are true and correct under penalty or perjury

PN: Z14010065 (B14141321018)

KNOW ALL MEN BY THESE PRESENTS,

That we, _____

as Principal, and _____

a corporation duly organized under the laws of the State of _____and duly licensed to become sole surety on bonds required or authorized by the State of California, as Surety, are held and firmly bound unto the City of Sacramento, hereinafter called the City, in the penal sum of ten percent (10%) of the (BASE OR LUMP SUM) Proposal of the Principal above named, or other amount as set forth in the Invitation to Bidders, submitted by said Principal to the City for the Work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH

That whereas the Principal has submitted the above mentioned proposal to the City, for which Proposals are to be opened in the Office of the City Clerk, City Hall, Closed Session Room #CH1104, 915 I Street, Sacramento, California, on **May 7, 2014**, for the Work specifically described as follows:

LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT
(PN: Z14010065) (B14141321018)

NOW, THEREFORE, if the aforesaid Principal is award the Agreement and within the time and manner required under the Contract Documents, enters into a written Agreement, in the prescribed form, in accordance with the Proposal, and files two (2) bonds with the City, one to guarantee faithful performance and the other to guarantee payment for labor and materials, and files the required insurance policies with the City, all as required by the Contract Documents or by law, then the obligation shall be null and void; otherwise it shall be and remain in full force and effect.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the court, which sums shall be additional to the principal amount of this bond.

IN WITNESS THEREOF, We have hereunto set our hands and seal this _____day of _____, 2014.

_____
PRINCIPAL Seal

By: _____

_____
Title

_____
SURETY Seal

By _____

_____
Title

_____
Agent Name and Address

_____

_____
Agent Phone #

_____
Surety Phone #

_____
California License #

City of SACRAMENTO

Subcontractor and Local Business Enterprise (LBE) Participation Verification Form For Public Projects Over $100,000

THIS FORM MUST BE SUBMITTED WITH THE SEALED BID PROPOSAL

To be eligible for award of this contract, the bidder shall list all subcontractors who perform work, labor, or render service in an amount in excess of one-half of 1 percent of the total bid amount. In the case of bids for the construction of streets and highways, including bridges, subcontractors whose subcontract value exceeds one-half of 1 percent of the total bid or ten thousand dollars ($10,000), whichever is greater, shall be listed.
In addition, the bidder shall list any business entity used to attain the 5% LBE requirement. Estimated dollar values shall be provided for **all** work/services/supplies listed. The inclusion of false information or the omission of required information will render the bid non-responsive.

Prime Contractor Name: _____ Address: _____
Bid Amount: _____ Is Prime Contractor a LBE? Yes____ No____ Total LBE Participation %: _____ Date: _____

Business Entity Name/Address/Contact Person/Telephone/Email	Sub-contractor license number	Indicate LBE (subject to verification)	Describe Exact Type of Work/Services/Supplies to be provided to complete contract	Estimated Dollar Value of Work/Services/Supplies to be Performed or Provided	Percentage of Prime Contract	For Office Use Only (calculation)

I hereby certify that each subcontractor listed on this Subcontractor and LBE Participation Verification Form has been notified that it has been listed and has consented in writing to its name being submitted for this contract. Additionally, I certify that I shall notify each business entity listed on this Form, in writing, if the award is granted to my firm, and I shall make all documentation relevant to subcontractor and LBE participation available to the City of Sacramento upon request. I further certify that all information contained in this Form is true and correct and I acknowledge that the City will rely on the truth of the information in awarding the contract.
PRINCIPAL OF FIRM:

_____ _____ _____
(Signature) (Title) (Date)

COPY AND ATTACH ADDITIONAL SHEETS AS NECESSARY

Form Updated 2/3/2014

DRUG-FREE WORKPLACE POLICY AND AFFIDAVIT

BID MAY BE DECLARED NONRESPONSIVE IF THIS FORM (COMPLETED) IS NOT ATTACHED.
Pursuant to City Council Resolution CC90-498 dated 6/26/90 the following is required.

The undersigned contractor certifies that it and all subcontractors performing under this contract will provide a drug-free workplace by:

1. Publishing a "Drug-Free Workplace" statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition.

2. Establishing a Drug-Free Awareness Program to inform employees about:

   a. The dangers of drug abuse in the workplace.
   b. The contractor's policy of maintaining a drug-free workplace.
   c. Any available drug counseling, rehabilitation, and employee assistance program.
   d. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.

3. Notify employees that as a condition of employment under this contract, employees will be expected to:

   a. Abide by the terms of the statement.
   b. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace.

4. Making it a requirement that each employee to be engaged in the performance of the contract be given a copy on the "Drug-Free Workplace" statement.

5. Taking one of the following appropriate actions, within thirty (30) days of receiving notice from an employee or otherwise receiving such notice, that said employee has received a drug conviction for a violation occurring in the workplace:

   a. Taking appropriate disciplinary action against such an employee, up to and including termination; or
   b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement or other appropriate agency.

* I certify that no person employed by this company, corporation, or business has been convicted of any criminal drug statute violation on any job site or project where this company, corporation, or business was performing work within three years of the date of my signature below.

EXCEPTION:

_____

Date | Violation Type | Place of Occurrence

If additional space is required use back of this form.

*The above statement will also be incorporated as a part of each subcontract agreement for any and all subcontractors selected for performance on this project.

IN THE EVENT THIS COMPANY, CORPORATION, OR BUSINESS IS AWARDED THIS CONSTRUCTION CONTRACT, AS A RESULT OF THIS BID; THE CONTRACTOR WITH HIS/HER SIGNATURE REPRESENTS TO THE CITY THAT THE INFORMATION DISCLOSED IN THIS DOCUMENT IS COMPLETE AND ACCURATE. IT IS UNDERSTOOD AND AGREED THAT FALSE CERTIFICATION IS SUBJECT TO IMMEDIATE TERMINATION BY THE CITY.

The Representations Made Herein On This Document Are Made Under Penalty Of Perjury.

CONTRACTOR'S NAME:_____

BY:_____Date:_____

Signature | Title

Effects of violations: a. Suspension of payments under this contract. b. Suspension or termination of the contract. c. Suspension or debarment of the contractor from receiving any contract from the City of Sacramento for a period not to exceed five years.
FM 681 7/10/9

MINIMUM QUALIFICATIONS QUESTIONNAIRE

Sacramento City Code Section 3.60.020 authorizes the Sacramento City Council to adopt standard minimum qualifications for bidders on competitively bid public works construction projects, and requires, among other provisions, that a bidder meet such minimum qualifications at the time of bid opening in order to bid. On July 31, 2007, the City Council adopted Resolution No. 2007-574 establishing these standard minimum qualifications. Pursuant to City Code section 3.60.020, a bidder failing to meet these minimum qualifications at the time of bid opening shall not be considered a responsible bidder for purposes of bidding on the subject project.

All bidders must demonstrate compliance with the minimum qualifications established by Resolution No. 2007-574 by completing all of the questions contained in this questionnaire. Bidder responses shall be limited to those operating business units, offices, branches and/or subsidiary divisions of the bidder that will be involved with the performance of any project work if awarded the contract. If a bidder answers "yes" to any single question, fails to submit a fully completed questionnaire, or submits false information, this will result in a determination that the minimum qualifications are not met, and the bidder shall not be considered a qualified bidder for purposes of bidding on this contract. If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must separately meet these minimum qualifications for the Joint Venture to be considered a qualified bidder.

The City of Sacramento ("City") shall make its determination on the basis of the submitted questionnaire, as well as any relevant information that is obtained from others or as a result of investigation by the City. While it is the intent of this questionnaire to assist the City in determining whether bidders possess the minimum qualifications necessary to submit bids on the City's competitively bid public works construction contracts, the fact that a bidder submits a questionnaire demonstrating that it meets these minimum qualifications shall not in any way limit or affect the City's ability to: (1) review other information contained in the bid submitted by the bidder, and additional relevant information, and determine whether the contractor is a responsive and/or responsible bidder; or (2) establish pre-qualification requirements for a specific contract or contracts.

By submitting this questionnaire, the bidder consents to the disclosure of its questionnaire answers: (i) to third parties for purposes of verification and investigation; (ii) in connection with any protest, challenge or appeal of any action taken by the City; and (iii) as required by any law or regulation, including without limitation the California Public Records Act (Calif. Gov't Code sections 6250 et seq.). Each questionnaire must be signed under penalty of perjury in the manner designated at the end of the form, by an individual who has the legal authority to bind the bidder submitting the questionnaire. If any information provided by a bidder becomes inaccurate, the bidder shall immediately notify the City and provide updated accurate information in writing, under penalty of perjury.

QUESTIONNAIRE

NOTICE: **For firms that maintain other operating business units, offices, branches and/or subsidiary divisions that will not be involved with the performance of any project work if the firm is awarded the contract, references hereafter to "your firm" shall mean only those operating business units, offices, branches and/or subsidiary divisions that will be involved with the performance of any project work.**

All of the following questions regarding "your firm" refer to the firm (corporation, partnership or sole proprietor) submitting this questionnaire, as well as any firm(s) with which any of your firm's owners, officers, or partners are or have been associated as an owner, officer, partner or similar position within the last five years

The firm submitting this questionnaire shall not be considered a responsible bidder if the answer to any of these questions is "yes", or if the firm submits a questionnaire that is not fully completed or contains false information.

1. **Classification & Expiration Date(s) of California** Contractor's License Number(s) held by firm:

   _____

2. Has a contractor's license held by your firm and/or any owner, officer or partner of your firm been revoked at anytime in the last five years?

   ☐ Yes ☐ No

3. Within the last five years, has a surety firm completed a contract on your firm's behalf, or paid for completion of a contract to which your firm was a party, because your firm was considered to be in default or was terminated for cause by the project owner?

   ☐ Yes ☐ No

4. At the time of submitting this minimum qualifications questionnaire, is your firm ineligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to either California Labor Code section 1777.1 (prevailing wage violations) or Labor Code section 1777.7 (apprenticeship violations)?

   ☐ Yes ☐ No

5. At any time during the last five years, has your firm, or any of its owners, officers or partners been convicted of a crime involving the awarding of a contract for a government construction project, or the bidding or performance of a government contract?

   ☐ Yes ☐ No

6. Answer either subsection A or B, as applicable:

A. Your firm has completed three or more government construction contracts in Sacramento County within the last five years: Within those five years, has your firm been assessed liquidated damages on three or more government construction contracts in Sacramento County for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging the assessment of liquidated damages on a government contract within the last five years, you need not include that contract in responding to this question.

☐ Yes ☐ No ☐ Not applicable

OR

B. Your firm has not completed at least three government construction contracts in Sacramento County within the last five years: Within the last three years, has your firm been assessed liquidated damages on three or more government construction contracts for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging an assessment of liquidated damages on a government contract within the last three years, you need not include that contract in responding to this question.

☐ Yes ☐ No ☐ Not applicable

7. In the last three years has your firm been debarred from bidding on, or completing, any government agency or public works construction contract for any reason?

NOTE: If there is a pending administrative or court action challenging a debarment, you need not include that debarment in responding to this question.

☐ Yes ☐ No

8. Has CAL OSHA assessed a total of three or more penalties against your firm for any "serious" or "willful" violation occurring on construction projects performed in Sacramento County at any time within the last three years?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☐ No

9. Answer <u>either</u> subsection A or B, as preferred:

A. In the last three years has your firm had a three year average Workers' Compensation experience modification rate exceeding 1.1?

☐ Yes ☐ No

OR

B. In the last three years has your firm had a three-year average incident rate for total lost workday cases exceeding 10?

NOTE: Incident rates represent the number of lost workday cases per 100 full-time workers and is to be calculated as: (N/EH) x 200,000, where

N	**=**	**number of lost workday cases (as defined by the U.S. Dept. of Labor, Bureau of Labor Statistics)**
EH	**=**	**total hours worked by all employees during the calendar year**
200,000	**=**	**base for 100 equivalent full-time working (working 40 hours per week, 50 weeks per year)**

☐ Yes ☐ No

10. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed penalties three or more times, either against your firm, or against the project owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was a contractor in Sacramento County?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☐ No

11. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed a single penalty of $100,000 or more, either against your firm, or against the project owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was the contractor in Sacramento County?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☐ No

12. In the past three years, have civil penalties been assessed against your firm pursuant to California Labor Code 1777.7 for violation of California public works apprenticeship requirements, three or more times?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☐ No

13. In the past three years, has a public agency in California withheld contract payments or assessed penalties against your firm for violation of public works prevailing wage requirements, three or more times?

NOTE: If there is a pending administrative or court action appealing a withholding or penalty assessment, you need not include that withholding or penalty assessment in responding to this question.

☐ Yes ☐ No

14. Has your firm been assessed penalties for violation of public works prevailing wage requirements in California, in an aggregate amount for the past three years of $50,000 or more?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☐ No

VERIFICATION AND SIGNATURE

I, the undersigned, certify and declare that I have read all the foregoing answers to this Minimum Qualifications Questionnaire, and know their contents. The matters stated in these Questionnaire answers are true of my own knowledge and belief, except as to those matters stated on information and belief, and as to those matters I believe them to be true. I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Signed at _____, on _____.
(Location) (Date)

Signature: _____

Print name: _____

Title: _____

NOTE: If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must submit a separate Minimum Qualifications Questionnaire.

REQUIREMENTS OF THE NON-DISCRIMINATION IN EMPLOYEE BENEFITS CODE

INTRODUCTION

The Sacramento Non-Discrimination In Employee Benefits Code (the "Ordinance"), codified as Sacramento City Code Chapter 3.54, prohibits City contractors from discriminating in the provision of employee benefits between employees with spouses and employees with domestic partners, and between the spouses and domestic partners of employees.

APPLICATION

The provisions of the Ordinance apply to any contract or agreement (as defined below), between a Contractor and the City of Sacramento, in an amount exceeding $100,000.00. The Ordinance applies to that portion of a contractor's operations that occur: (i) within the City of Sacramento; (ii) on real property outside the City of Sacramento if the property is owned by the City or if the City has a right to occupy the property; or (iii) at any location where a significant amount of work related to a City contract is being performed.

The Ordinance does not apply: to subcontractors or subcontracts of any Contractor or contractors; to transactions entered into pursuant to cooperative purchasing agreements approved by the Sacramento City Council; to legal contracts of other governmental jurisdictions or public agencies without separate competitive bidding by the City; where the requirements of the ordinance will violate or are inconsistent with the terms or conditions of a grant, subvention or agreement with a public agency or the instructions of an authorized representative of any such agency with respect to any such grant, subvention or agreement; to permits for excavation or street construction; or to agreements for the use of City right-of-way where a contracting utility has the power of eminent domain.

DEFINITIONS

As set forth in the Ordinance, the following definitions apply:

"Contract" means an agreement for public works or improvements to be performed, or for goods or services to be purchased or grants to be provided, at the expense of the City or to be paid out of moneys deposited in the treasury or out of the trust money under the control or collected by the City. "Contract" also means a written agreement for the exclusive use ("exclusive use" means the right to use or occupy real property to the exclusion of others, other than the right reserved by the fee owner) or occupancy of real property for a term exceeding 29 days in any calendar year, whether by singular or cumulative instrument, (i) for the operation or use by others of real property owned or controlled by the City for the operation of a business, social, or other establishment or organization, including leases, concessions, franchises and easements, or (ii) for the City's use or occupancy of real property owned by others, including leases, concessions, franchises and easements.

"Contract" shall not include: a revocable at-will use or encroachment permit for the use of or encroachment on City property regardless of the ultimate duration of such permit; excavation, street construction or street use permits; agreements for the use of City right-of-way where a contracting utility has the power of eminent domain; or agreements governing the use of City property that constitute a public forum for activities that are primarily for the purpose of espousing or advocating causes or ideas and that are generally protected by the First Amendment to the United States Constitution or that are primarily recreational in nature.

“Contractor” means any person or persons, firm partnership or corporation, company, or combination thereof, that enters into a Contract with the City. “Contractor” does not include a public entity.

“Domestic Partner” means any person who has a currently registered domestic partnership with a governmental entity pursuant to state or local law authorizing the registration.

“Employee Benefits” means bereavement leave; disability, life, and other types of insurance; family medical leave; health benefits; membership or membership discounts; moving expenses; pension and retirement benefits; vacation; travel benefits; and any other benefit given to employees. “Employee benefits” shall not include benefits to the extent that the application of the requirements of this chapter to such benefits may be preempted by federal or state.

CONTRACTOR’S OBLIGATION TO PROVIDE THE CITY WITH DOCUMENTATION AND INFORMATION

Contractor shall provide the City with documentation and information verifying its compliance with the requirements of the Ordinance within ten (10) days of receipt of a request from the City. Contractors shall keep accurate payroll records, showing, for each City Contract, the employee’s name, address, Social Security number, work classification, straight time pay rate, overtime pay rate, overtime hours worked, status and exemptions, and benefits for each day and pay period that the employee works on the City Contract. Each request for payroll records shall be accompanied by an affidavit to be completed and returned by the Contractor, as stated, attesting that the information contained in the payroll records is true and correct, and that the Contractor has complied with the requirements of the Ordinance. A violation of the Ordinance or noncompliance with the requirements of the Ordinance shall constitute a breach of contract.

EMPLOYER COMPLIANCE CERTIFICATE AND NOTICE REQUIREMENTS

(a) All contractors seeking a Contract subject to the Ordinance shall submit a completed Declaration of Compliance Form (attachment “A”), signed by an authorized representative, with each proposal, bid or application. The Declaration of Compliance shall be made a part of the executed contract, and will be made available for public inspection and copying during regular business hours.

(b) The Contractor shall give each existing employee working directing on a City contract, and (at the time of hire), each new employee, a copy of the notification provided as attachment “B.”

(c) Contractor shall post, in a place visible to all employees, a copy of the notice provided as attachment “C.”

DECLARATION OF COMPLIANCE
Equal Benefits Ordinance

_____
Name of Contractor

_____
Address

The above named contractor ("Contractor") hereby declares and agrees as follows:

1. I have read and understand the Requirements of the Non-Discrimination In Employee Benefits Code (the "Requirements") provided to me by the City of Sacramento ("City") in connection with the City's request for proposals or other solicitations for the performance of services, or for the provision of commodities, under a City contract or agreement ("Contract").

2. As a condition of receiving the City Contract, I agree to fully comply with the Requirements, as well as any additional requirements that may be specified in the City's Non-Discrimination in Employee Benefits Code codified at Chapter 3.54 of the Sacramento City Code (the "Ordinance").

3. I understand, to the extent that such benefits are not preempted or prohibited by federal or state law, employee benefits covered by the Ordinance, are any of the following:

   a. Bereavement Leave
   b. Disability, life, and other types of insurance
   c. Family medical leave
   d. Health benefits
   e. Membership or membership discounts
   f. Moving expenses
   g. Pension and retirement benefits
   h. Vacation
   i. Travel benefits
   j. Any other benefit offered to employees

   I agree that should I offer any of the above listed employee benefits, that I will offer those benefits, without discrimination between employees with spouses and employees with domestic partners, and without discrimination between the spouses and domestic partners of such employees.

4. I understand that I will not be considered to be discriminating in the provision or application of employee benefits under the following conditions or circumstances:

   a. In the event that the actual cost of providing a benefit to a domestic partner or spouse, exceeds the cost of providing the same benefit to a spouse or domestic partner of an employee, I will not be required to provide the benefit, nor shall it be deemed discriminatory, if I require the employee to pay the monetary difference in order to provide the benefit to the domestic partner or to the spouse.

   b. In the event I am unable to provide a certain benefit, despite taking reasonable measures to do so, if I provide the employee with a cash equivalent, I will not be deemed to be discriminating in the application of that benefit.

   c. If I provide employee benefits neither to employee's spouses nor to employee's domestic partners.

   d. If I provide employee benefits to employees on a basis unrelated to marital or domestic partner status.

   e. If I submit, to the Program Coordinator, written evidence of making reasonable efforts to end discrimination in employee benefits by implementing policies which are to be enacted before the

first effective date after the first open enrollment process following the date the Contract is executed with the City.

I understand that any delay in the implementation of such policies may not exceed one (1) year from the date the Contract is executed with the City, and applies only to those employee benefits for which an open enrollment process is applicable.

f. Until administrative steps can be taken to incorporate, in the infrastructure, nondiscrimination in employee benefits

The time allotted for these administrative steps will apply only to those employee benefits for which administrative steps are necessary and may not exceed three (3) months from the date the Contract is executed with the City.

g. Until the expiration of a current collective bargaining agreement(s) where, in fact, employee benefits are governed by a collective bargaining agreement(s).

h. I take all reasonable measures to end discrimination in employee benefits by either requesting the union(s) involved agree to reopen the agreement(s) in order for me to take whatever steps are necessary to end discrimination in employee benefits or by my ending discrimination in employee benefits without reopening the collective bargaining agreement(s).

i. In the event I cannot end discrimination in employee benefits despite taking all reasonable measures to do so, I provide a cash equivalent to eligible employees for whom employee benefits (as listed previously), are not available.

Unless otherwise authorized in writing by the City Manager, I understand this cash equivalent must begin at the time the union(s) refuse to allow the collective bargaining agreement(s) to be reopened or no longer than three (3) months from the date the Contract is executed with the City.

5. I understand that failure to comply with the provisions of Section 4. (a) through 4. (i), above, will subject me to possible suspension and/or termination of this Contract for cause; repayment of any or all of the Contract amount disbursed by the City; debarment for future contracts until all penalties and restitution have been paid in full; deemed ineligible for future contracts for up to two (2) years; the imposition of a penalty, payable to the City, in the sum of $50.00 for each employee, for each calendar day during which the employee was discriminated against in violation of the provisions of the Ordinance.

6. I understand and do hereby agree to provide each current employee and, within ten (10) days of hire, each new employee, of their rights under the Ordinance. I further agree to maintain a copy of each such letter provided, in an appropriate file for possible inspection by an authorized representative of the City. I also agree to prominently display a poster informing each employee of these rights.

7. I understand that I have the right to request an exemption to the benefit provisions of the Ordinance when such a request is submitted to the Procurement Services Division, in writing with sufficient justification for resolution, prior to contract award.

I further understand that the City may request a waiver or exemption to the provisions or requirements of the Ordinance, when only one contractor is available to enter into a contract or agreement to occupy and use City property on terms and conditions established by the City; when sole source conditions exist for goods, services, public project or improvements and related construction services; when there are no responsive bidders to the Ordinance requirements and the contract is for essential goods or services; when emergency conditions with public health and safety implications exist; or when the contract is for specialized legal services if in the best interest of the City.

8. In consideration of the foregoing, I shall defend, indemnify and hold harmless, the City, its officers and employees, against any claims, actions, damages, costs (including reasonable attorney fees), or other liabilities of any kind arising from any violation of the Requirements or of the Ordinance by me.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that I am authorized to bind the Contractor to the provisions of this Declaration.

_____ _____

Signature of Authorized Representative Date

_____

Print Name

_____

Title

YOUR RIGHTS UNDER THE CITY OF SACRAMENTO'S

NON-DISCRIMINATION IN EMPLOYEE BENEFITS BY CITY CONTRACTORS ORDINANCE

On …….. (date), your employer (the "Employer") entered into a contract with the City of Sacramento (the "City") for …….. (contract details), and as a condition of that contract, agreed to abide by the requirements of the City's Non-Discrimination In Employee Benefits By City Contractors Ordinance (Sacramento City Code Section 3.54).

The Ordinance does not require the Employer to provide employee benefits. The Ordinance does require that if certain employee benefits are provided by the Employer, that those benefits be provided without discrimination between employees with spouses and employees with domestic partners, and without discrimination between the spouse or domestic partner of employees.

The Ordinance covers any employee working on the specific contract referenced above, but only for the period of time while those employees are actually working on this specific contract.

The included employee benefits are:

- Bereavement leave
- Disability, life and other types of insurance
- Family medical leave
- Health benefits
- Membership or membership discounts
- Moving expenses
- Pension and retirement benefits
- Vacation
- Travel benefits
- Any other benefits given to employees

(Employee Benefits does not include benefits that may be preempted by federal or state law.)

If you feel you have been discriminated or retaliated against by your employer in the terms and conditions of your application for employment, or in your employment, or in the application of these employee benefits, because of your status as an applicant or as an employee protected by the Ordinance, or because you reported a violation of the Ordinance, and after having exhausted all remedies with your employer,

You May . . .

- Submit a written complaint to the City of Sacramento, Contract Services Unit, containing the details of the alleged violation. The address is:

  City of Sacramento
  Contract Services Unit
  915 I St., 2nd Floor
  Sacramento, CA 95814

- Bring an action in the appropriate division of the Superior Court of the State of California against the Employer and obtain the following remedies:

  - Reinstatement, injunctive relief, compensatory damages and punitive damages

  - Reasonable attorney's fees and costs

YOUR RIGHTS UNDER THE CITY OF SACRAMENTO'S

NON-DISCRIMINATION IN EMPLOYEE BENEFITS BY CITY CONTRACTORS ORDINANCE

If your employer provides employee benefits, they must be provided to those employees working on a City of Sacramento contract without discriminating between employees with spouses and employees with domestic partners.

The included employee benefits are:

- Bereavement leave
- Disability, life and other types of insurance
- Family medical leave
- Health benefits
- Membership or membership discounts
- Moving expenses
- Pension and retirement benefits
- Vacation
- Travel benefits
- Any other benefits given to employees

If you feel you have been discriminated against by your employer . . .

You May . . .

- Submit a written complaint to the City of Sacramento, Contract Services Unit, containing the details of the alleged violation. The address is:

  City of Sacramento
  Contract Services Unit
  915 I St., 2nd Floor
  Sacramento, CA 95814

- Bring an action in the appropriate division of the Superior Court of the State of California against the employer and obtain reinstatement, injunctive relief, compensatory damages, punitive damages and reasonable attorney's fees and costs.

Discrimination and Retaliation Prohibited.

If you feel you have been discriminated or retaliated against by your employer in the terms and conditions of your application for employment, or in your employment, because of your status as an applicant or as an employee protected by the Ordinance, or because you reported a violation of this Ordinance . . .

You May Also . . .

Submit a written complaint to the City of Sacramento, Contract Services Unit, at the same address, containing the details of the alleged violation.

Construction and Demolition (C&D) Debris Recycling Requirements

As a condition of receiving this Contract, Contractor agrees to fully comply with the requirements specified herein for all demolition projects, as well as projects with a valuation of $250,000 or more:

1. **Definitions**. For purposes of this section, the following terms, words and phrases shall have the following meanings:

"Certified C&D sorting facility" means a facility that receives C&D debris and/or processes C&D debris into its component material types for reuse, recycling, and disposal of residuals and possesses a valid certificate as a C&D sorting facility from the Sacramento Regional County Solid Waste Authority.

"Construction and demolition debris" or "C&D debris" means used or commonly discarded materials resulting from construction, repair, remodel or demolition operations on any pavement, house, building, or other structure, or from landscaping that are not hazardous as defined in California Health and Safety Code section 25100 et seq. Such materials include, but are not limited to, concrete, asphalt, wood, metal, brick, dirt, sand, rock, gravel, plaster, glass, gypsum wallboard, cardboard and other associated packaging, roofing material, ceramic tile, carpeting, masonry, plastic pipe, trees, and other vegetative matter resulting from land clearing and landscaping.

"Divert" or "diversion" means to use materials for any purpose other than disposal in a landfill or transformation facility. Methods to divert materials include on-site reuse of the materials, delivery of materials from the project site to a certified C&D sorting facility or a recycling facility, or other methods as approved in regulations promulgated by the City Department of Utilities.

"Franchised waste hauler" means a person who possesses a valid commercial solid waste collection franchise issued by the Sacramento Regional County Solid Waste Authority.

"Mixed C&D debris" means loads that include commingled recyclable and non-recyclable C&D debris generated at a project site.

"Recyclable C&D debris" means C&D debris required to be diverted from landfills as specified in the Waste Management Plan and returned to the economic mainstream in the form of raw material for new, reused or reconstituted products that meet the quality standards necessary to be used in the marketplace.

"Recycling facility" means a facility or operation that receives, processes, and transfers source-separated recyclable materials.

"Source-separated C&D debris" means recyclable C&D debris that is separately sorted and containerized at the site of generation by individual material type and segregated from mixed C&D debris prior to collection and transporting.

"Waste log" means a record detailing the management of C&D debris generated by the covered project, including the date and weight/volume of material by type that was salvaged, reused, recycled or disposed.

2. **Waste Management Plan**. A completed WMP (see **Attachment 1**) must be submitted to and approved by the City prior to commencing any work on the project. The WMP must specify the types of C&D debris that will be generated from the project; the manner in which C&D debris will be managed and/or stored on the project site; the manner in which recyclable C&D debris generated from the project will be recycled or reuse; the person who will haul, collect or transport the recyclable C&D debris from the project site; and the certified C&D sorting facility or recycling facility where recyclable C&D debris will be delivered. The WMP must be approved by the City prior to commencing any work on the project.

3. Contractor shall be solely responsible for diverting the recyclable C&D materials specified on the WMP. Mixed C&D debris shall be delivered to a SWA-certified C&D sorting facility only. Only the permit holder, the person who generates the waste, a franchised waste hauler, or the City of Sacramento can transport or haul mixed C&D debris. Source-separated C&D debris may be delivered by any person to any recycling facility that accepts such materials. (See **Attachment 2** for list of C&D Debris Haulers and Facilities).

4. During the course of the project, Contractor shall maintain a waste log (see **Attachment 3**), and keep all weight tickets or weight receipts, for all C&D debris hauled away from the project. At a minimum, the waste log shall specify the C&D debris generated by the project; the manner in which C&D debris was recycled or re-used; and the facility where the C&D debris was delivered.

5. Within 30 days after submitting the project completion report, Contractor shall submit to the City a completed waste log, along with copies of supporting weight tickets. Contractor shall maintain and keep accurate and complete records of al bills, weight receipts or weight tickets that were issued for the collection, transport or disposal of C&D debris for a period of one-year after submittal of the waste log. The records shall be made available for inspection, examination and audit by the City during the one-year retention period to validate the information provided in the WMP and in the waste log. If the City determines noncompliance by the Contractor after an audit has been conducted, Contractor shall reimburse the City for all costs incurred in performing the audit.

6. Failure by Contractor to comply with any provisions specified herein will subject Contractor to possible suspension and/or termination of this Contract for cause; repayment of any or all of the Contract amount disbursed by the City; imposition of a penalty, payable to the City ($50-$250 for first offense, $251-$500 for second offense, and $501-$1500 for subsequent offenses); and/or submission of a performance security deposit fee when submitting a permit application to the City for a project within one year of imposition of the penalty.

For questions or to obtain more information about the Recycling Requirements for C&D debris, contact the City of Sacramento, Solid Waste Services Division, 2812 Meadowview Road, Building 1, Sacramento, CA 95832, or telephone (916) 808-4833, or email C&D@cityofsacramento.org

C&D Debris Waste Management Plan

C&D Debris Waste Management Plan
City of Sacramento Solid Waste Services
2812 Meadowview Road, Building 1
Sacramento, CA 95832
Phone: (916) 808-4839 / Fax: (916) 808-4999
C&D@cityofsacramento.org

Form submitted by:	
	Please attach a business card, or put your name with a phone number and/or an email address.

This Waste Management Plan (WMP) must be submitted and approved before work can begin. Only one WMP is required for each public construction project. The administration fee and, if applicable, a security deposit must be submitted with this form to be approved. Administration fee is 0.04% of project bid amount (min $40, max $800); security deposit, if applicable, is 1% of bid amount (max $10,000). The accompanying Waste Log must be submitted within 30 days of the project completion report, or a penalty may be imposed.

A. Building Project Information:

Job Address: _____ Engineering Estimate: _____
Contractor: _____ Phone: _____
Address: _____ Email: _____

B. Briefly describe the project:

_____

_____

_____

_____

_____

C. Materials Required to be Recycled

50% of all debris must be recycled if generated during the course of your project. You can either **source-separate** them, which may be hauled by anyone, or mix them in one container and send the **mixed C&D debris** load to a **Certified Mixed C&D Sorting Facility**. Mixed C&D loads can only be hauled by a franchised hauler or self-hauled. Please see the Definitions section, on the next page, for more information.

50%
of all debris must be recycled

D. Material Management.

1. **How will C&D debris will be stored on the project site**: _____ Mixed C&D _____ Source-Separated
2. **Company to haul away debris**: _____
3. **Facilities to receive debris**: _____

C&D Debris Waste Management Plan
City of Sacramento Solid Waste Services
2812 Meadowview Road, Building 1
Sacramento, CA 95832
Phone: (916) 808-4839 / Fax: (916) 808-4999
C&D@cityofsacramento.org

E. Definitions.

Please read and understand these terms. Call Solid Waste at (916) 808-4833 if these terms are not clear to you. More information is also available online at http://www.cityofsacramento.org/utilities/.

1. **Self-haul or self-hauling**: This is when the general contractor or a subcontractor *who is doing work on the project* hauls their own waste materials for recycling or disposal. Note that a *jobsite cleanup crew is not doing other work on the project and is not self-hauling*. Jobsite cleanup crews need to be franchised in order to haul mixed C&D debris away.

2. **Franchised hauler**: Check the Department of Utilities (DOU) website for a list of these haulers. Only these companies and the City of Sacramento can collect and haul mixed C&D debris generated within the City for a fee.

3. **Source separation**: This means keeping wood, metal, cardboard, or other recyclables in separate containers, and sending the materials to an authorized recycler. A list of authorized recyclers can be found on the DOU web site. Source-separated materials may be hauled by anyone.

4. **Mixed C&D debris**: This means putting all recyclable debris into one container. Mixed materials must be sent to a certified mixed C&D sorting facility. Mixed materials may be either self-hauled or hauled by a franchised hauler. If your job site is crowded, this option saves the most space.

5. **Certified Mixed C&D Sorting Facility**: See the DOU web site for a list. These facilities have been certified by the Sacramento Regional Solid Waste Authority (SWA) to extract recyclable materials from mixed C&D debris.

F. Terms and Conditions

- Your approved Waste Management Plan and Waste Log must be kept on the job site for the duration of the project.
- City of Sacramento Solid Waste Services staff may enter the jobsite to inspect waste collection areas.
- **ALL** Clean Wood Waste (unpainted, untreated lumber, plywood and OSB), Inert Materials (concrete, asphalt paving, brick, block, and dirt), Wooden Pallets, Scrap Metal, and Corrugated Cardboard must be recycled.
- Only SWA-Certified Mixed C&D Sorting Facilities may be used to recycle these materials if mixed with other materials.
- Only the City of Sacramento, SWA-Franchised Haulers, or self-haulers (as defined above) may collect and transport mixed C&D material from the jobsite.
- C&D Debris may not be burned or dumped illegally.
- Your Waste Log must be completed and submitted, with supporting weight tickets, within 30 days of submitting your project completion report. All waste hauling and disposal or recycling activity must be entered on the Waste Log, including information from any subcontractors who self-hauled their own debris off-site.
- You must keep all receipts or weight-tickets from your project for a period of one year from the submittal of your waste log.
- Failure to comply with these terms and conditions may result in a fine and payment of a security deposit on future projects

C&D Debris Haulers & Facilities

C&D Debris Waste Management Plan
City of Sacramento Solid Waste Services
2812 Meadowview Road, Building 1
Sacramento, CA 95832
Phone: (916) 808-4833 / Fax: (916) 808-4999
C&D@cityofsacramento.org

Certified Mixed C&D Facilities

Allied Waste / Elder Creek Transfer and Recovery	(916) 387-8425
Florin-Perkins Public Disposal	(916) 443-5120
L&D Landfill	(916) 737-8640
Waste Management / K&M Recycle America	(916) 452-0142

Franchised Haulers

ACES Waste Services, Inc.	(866) 488-8837	Elk Grove Waste Management, LLC	(916) 689-4052
Allied Waste Services	(916) 631-0600	Mini Drops, Inc.	(916) 686-8785
All Waste Systems, Inc.	(916) 456-1555	Norcal Waste Services of Sacramento	(916) 381-5300
Atlas Disposal Industries, LLC	(916) 455-2800	North West Recyclers	(916) 686-8575
California Waste Recovery Systems	(916) 441-1985	Waste Management of Sacramento	(916) 387-1400
Central Valley Waste Services, Inc.	(209) 369-8274	Waste Removal & Recycling	(916) 453-1400
City of Sacramento Solid Waste	(916) 808-4839	Western Strategic Materials, Inc.	(916) 388-1076

Recyclers*

Bell Marine	(916) 442-9089
C & C Paper Recycling	(916) 920-2673
EBI Aggregates	(916) 372-7580
International Paper	(916) 371-4634
Modern Waste Solutions	(916) 447-6800
PRIDE Industries, Inc.	(916) 640-1300
Recycling Industries, Inc.	(916) 452-3961
Sacramento Local Conservation Corps	(916) 386-8394
Smurfit-Stone Container Corporation	(916) 381-3340
Southside Art Center	(916) 387-8080
Spencer Building Maintenance, Inc.	(916) 922-1900

Recovery Stations & Landfills

Elder Creek Recovery & Transfer Station	(916) 387-8425
Kiefer Landfill	(916) 875-5555
L & D Landfill	(916) 383-9420
North Area Recovery Station	(916) 875-5555
Sacramento Recycling & Transfer Station	(916) 379-0500
Waste Management Recycle America	(916) 452-0142

More updated information can be found online at:
http://www.cityofsacramento.org/utilities/

* Please note that any facility may receive source-separated recyclable materials as long as it is authorized to do so by the State of California. This is not meant to be a complete list.

C&D Debris Waste Log

C&D Debris Waste Management Plan
City of Sacramento Solid Waste Services
2812 Meadowview Road, Building 1
Sacramento, CA 95832
Phone: (916) 808-4839 / Fax: (916) 808-4999
C&D@cityofsacramento.org

Project address: _____

This waste log, and copies of supporting weight tickets, must be submitted to Solid Waste within 30 days of submitting the project completion report. The waste log and weight tickets must also be kept on file for one year after project completion.

Date	Hauler	Material	Destination	Amount

Hauler: Indicate the Franchisee, Self-Hauler, City of Sacramento, or other hauler who removed the material offsite.
Material: Indicate appropriate category: Scrap Metal, Inert Materials, Cardboard, Wooden Pallets, or Clean Wood Waste.
Destination: Indicate the facility that received the material for disposal or recycling
Amount: Indicate the weight. If weight is not known, put volume.

.

Green Contracting Survey
(Voluntary)

The City of Sacramento and the Sacramento Metropolitan Air Quality District (SMAQMD) are conducting a joint pilot project to help meet Federal Clean Air Standards for the Sacramento region.

Attached is a Green Contracting Fleet Inventory Form. Please complete the form, remove it from the bid package and return it to SMAQMD in the postage paid envelope provided with the bid package. Please do not return the Green Contracting Fleet Inventory Form to the City of Sacramento with the bid documents or otherwise.

A limited amount of funds and other financial incentives may be available to qualified contractors participating in this joint project to assist qualified contractors with upgrading and/or replacing equipment and/or trucks.

Completing and returning the Green Contracting Fleet Inventory Form is strictly voluntary

Voluntary Green Contracting Fleet Inventory List (On-Road Equipment)

In partnership with the City of Sacramento and the Sacramento Metropolitan Air Quality Management District

Company Name:	
Contact Name:	
Company Address:	
City, State, ZIP:	
Company Phone:	

	City Bid Information
Department	
Project #	

Instructions:

a) Please enter the vehicle / equipment information for each unit used in conjunction with your City of Sacramento Bid.
b) All fields are required for both on-road heavy-duty vehicles and off-road construction equipment over 50 HP.
c) Electronic version available at http://www.airquality.org/ceqa/index.shtml
d) For additional questions, please call (916) 874-4892

Please Submit To:

Kristian Damkier, P.E.
Sacramento Metropolitan AQMD
777 12th St, 3rd Floor
Sacramento, CA 95814-1908

#	VIN	License Plate	Vehicle Information			Engine Information				Annual Usage (miles)	Received Funding
			Make	Model	Year	Make	Model	Year	HP		
(ex)	*1XP5AAC35RG339402*	*1T45678*	*Kenworth*	*T-300*	*2002*	*Cummins*	*ISB*	*2002*	*250*	*35,000*	*No*

Voluntary Green Contracting Fleet Inventory List (On-Road Equipment)

In partnership with the City of Sacramento and the Sacramento Metropolitan Air Quality Management District

Company Name:	
Contact Name:	
Company Address:	
City, State, ZIP:	
Company Phone:	

	City Bid Information
Department	
Project #	

Instructions:

a) Please enter the vehicle / equipment information for each unit used in conjunction with your City of Sacramento Bid.
b) All fields are required for both on-road heavy-duty vehicles and off-road construction equipment over 50 HP.
c) Electronic version is available at http://www.airquality.org/ceqa/index.shtml
d) For additional questions, please call (916) 874-4892

Please Submit To:

Kristian Damkier, P.E.
Sacramento Metropolitan AQMD
777 12th St, 3rd Floor
Sacramento, CA 95814-1908

Equipment Serial Number	Equipment Information				Engine Information				Annual Usage (hours)
	Make	Model	Type	Year	Make	Model	Year	HP	
48W34456	*Caterpillar*	*631G*	*Scraper*	*2003*	*Caterpillar*	*3408E*	*2003*	*485*	*1,600*

LOCAL BUSINESS ENTERPRISE (LBE) PARTICIPATION REQUIREMENTS FOR PUBLIC PROJECTS OF $100,000 OR MORE

(City Contracts no Federal Funds Used)

I. LBE PARTICIPATION REQUIREMENT

On April 3, 2012, the Sacramento City Council adopted a Local Business Enterprise (LBE) Preference Program to provide enhanced opportunities for the participation of local business enterprises (LBEs) in the City's contracting and procurement activities. On November 19, 2013, the City Council increased the LBE preference percentage and authorized City departments to require minimum LBE participation levels in specific contracts. Under City Code section 3.60.270, when the bid specifications for a City contract establish a minimum participation level for LBEs, no bidder on the contract shall be considered responsive unless its bid meets the minimum LBE participation level required by the bid specifications.

The City has established **a minimum 5% participation level for LBEs on this contract**. Pursuant to City Code Section 3.60.270, no bidder on this contract shall be considered responsive unless its bid meets or exceeds this minimum participation level.

Bidder and any other business entity listed on the LBE forms submitted shall comply with all applicable laws relating to licensing, permitting, and payment of taxes and fees in the City of Sacramento or County of Sacramento; and shall not be in arrears to the City of Sacramento or County of Sacramento, upon award of a contract.

II. LBE QUALIFICATION

A. A LBE designated in the bid must be qualified as a LBE prior to the time set for submission of bids.

B. Local Business Enterprise means a business enterprise, including but not limited to, a sole proprietorship, partnership, limited liability company, corporation, or other business entity that has a legitimate business presence in the City or unincorporated county of Sacramento. Proof of legitimate business presence in the City or unincorporated county of Sacramento shall include:

1. Having a current City of Sacramento Business Operation Tax or County of Sacramento Business License for at least twelve (12) consecutive months prior to submission of bid; and
2. Having either of the following types of offices or workspace operating legally within the City or unincorporated county of Sacramento for at least twelve (12) consecutive months prior to submission of bid:
    a. The LBE's principle business office or workspace; or
    b. The LBE's regional, branch or satellite office with at least one full time employee located in the City or unincorporated county of Sacramento.

C. A LBE must provide a physical address for the basis of location. This excludes P.O. Box addresses.

D. A LBE must provide a current copy of the City of Sacramento Business Operations Tax Certificate or County of Sacramento Business License.

III. DETERMINATION OF LBE PARTICIPATION LEVEL

A. LBE Participation: The percentage of LBE participation is determined based on the dollar value of the work to be performed or supplies to be furnished by certified LBEs designated in the bidder's Subcontractor and LBE Participation Verification Form, relative to the total dollar amount of the bid.

B. Participation Credit: To receive credit for participation:(1) a LBE subcontractor must be responsible for the execution of a distinct element of the work, must possess any license or certification required for the work, and must actually perform, manage, or supervise the work without subcontracting or otherwise shifting any portion of the work to another subcontractor; and (2) a LBE supplier must furnish materials, equipment, or supplies that the supplier sells as a recurring, although not necessarily primary, part of its business, and that are necessary for performance of the work.

C. Suppliers: Credit for a LBE supplier of materials, equipment, or supplies is counted as one hundred (100) percent of the amount paid to the supplier for the material, equipment, or supplies. To receive this credit, LBE suppliers must be listed on the bidder's Subcontractor and LBE Participation Verification Form.

D. Subcontractors (including truckers): To receive credit for a LBE subcontractor, the subcontractor must be listed on the bidder's Subcontractor and LBE Participation Verification Form.

- Truckers: Credit for a LBE trucker is counted as one hundred (100) percent of the amount paid to the trucker for trucking services, not including any amount paid to the trucker for the cost of any materials, equipment, or supplies being transported by the trucker.

IV. LBE REQUIREMENTS FOR CONTRACTOR

A. LBE Records: The Contractor shall maintain records of all subcontracts with verified LBE subcontractors and records of materials purchased from verified LBE suppliers for one (1) year after receiving final payment from the City. Such records shall show the name and business address of each LBE subcontractor or supplier and the total dollar amount actually paid each LBE subcontractor or supplier.

Not later than 30 days after completion of the work performed under the contract, a summary of these records shall be prepared, certified correct by the Contractor's authorized representative and furnished to the City. The Contractor shall provide such other information, records, reports, certifications or other documents as may

be required by City, to determine compliance with any provision of the LBE program or these specifications.

B. Performance of LBE Subcontractors and Suppliers: The LBEs listed by the Contractor shall perform the work and supply the materials, equipment, and supplies for which they are listed unless the Contractor has received prior written authorization from the City to perform the work with other forces or to obtain the material, equipment, or supplies from other sources. Reasons for requesting such authorization would include:

1. The listed LBE fails to execute a written contract based upon the general terms, conditions, plans, and specifications for the project.

2. The listed LBE becomes bankrupt or insolvent.

3. The listed LBE subcontractor fails to meet the bond requirements of the Contractor.

4. The work performed or the materials/equipment/supplies provided by the listed LBE are unsatisfactory or are not in accordance with the plans and specifications, or the listed LBE fails to perform its contractual obligations.

5. It would be in the best interest of the City.

C. Subcontractor Substitution: No substitution of a LBE subcontractor shall be made at any time without compliance with the Subletting and Subcontracting Fair Practices Act. If a LBE subcontractor is unable to perform successfully and is to be replaced, the Contractor shall make reasonable efforts to replace the original LBE subcontractor with another verified LBE subcontractor. The new LBE subcontractor must be verified at the time of substitution.

D. Reporting and Utilization Requirements and Sanctions: Failure to provide specific information, records, reports, certifications, or any other documents required for compliance with these specifications, or failure to utilize one or more LBEs in substantial compliance with the LBE utilization indicated in the Contractor's bid (unless otherwise authorized by City as provided herein, or when such failure results from changes to the work approved by the City), shall be considered a breach of the contract, and a deduction may be made from the contract amount. The deduction shall be not more than ten (10) percent of the value of the work or materials/equipment/supplies that the subject LBE(s) were listed to perform/provide in the Contractor's bid, and shall be deducted from any payment due to the Contractor. This is in addition to any deduction that may be made under any other provision of the contract, the Sacramento City Code, or State law.

E. Hearing and Review of Division Manager Decision: Prior to making a deduction pursuant to Section IV (D), above, the City shall provide written notice of the proposed deduction to the Contractor, and the Contractor may, not later than five (5) working days after receiving such notice, provide a written request to City for a hearing to contest the proposed deduction. Upon receipt of a timely written

request from the Contractor, the City shall schedule a hearing before the Division Manager (as defined in the City's Standard Specifications for Public Construction), and written notice of the date, time and location of the hearing shall be provided to the Contractor not less than five (5) working days prior to the date of the hearing. The hearing shall be conducted in the manner specified in Section 4-8 of the Standard Specifications, and the Division Manager shall prepare and forward to the Contractor a written decision as soon as practicable after the hearing. The Division Manager's decision shall be subject to review in accordance with the provisions of Section 4-9 of the Standard Specifications. Failure to request such review in compliance with the requirements set forth in Section 4-9 shall constitute acceptance of the Division Manager's decision by the Contractor.

The written notices and requests described above shall be provided by registered or certified mail (return receipt requested), by telecopy, by personal delivery, or by any other method that provides reliable evidence of the date of receipt. Written notice provided by telecopy shall be deemed received on the date that it is transmitted and transmission is confirmed by the transmitting machine. Written notice provided by personal delivery shall be deemed received on the date of delivery.

V. DEFINITIONS

A. Local Business Enterprise (LBE): A business enterprise, including but not limited to, a sole proprietorship, partnership, limited liability company, corporation, or any other business entity that has a legitimate business presence in the City of Sacramento or unincorporated county of Sacramento.

B. Contractor: The sole proprietorship, partnership, limited liability company, corporation, or any other business entity entering into a contract with the City of Sacramento.

C. Subcontractor: The sole proprietorship, partnership, limited liability company, corporation, or other business entity entering into a contract with the prime contractor to perform a portion of the work.

D. Supplier: The sole proprietorship, partnership, limited liability company, corporation, or other business entity to provide materials, equipment, or supplies necessary for performance of the work.

E. Proposal: Any response to a City solicitation for Proposals or Qualifications.

F. Bid: Any response to a City solicitation for bids.

FOLLOWING FORMS TO BE FILLED OUT AND SIGNED

ONLY

IF AWARDED CONTRACT

WORKER'S COMPENSATION INSURANCE CERTIFICATION

TO THE CITY OF SACRAMENTO:

The undersigned does hereby certify that he is aware of the provisions of Section 3700 et seq. of the Labor Code which require every employer to be insured against liability for worker's compensation claims or to undertake self-insurance in accordance with the provisions of said Code, and that he/she will comply with such provisions before commencing the performance of the work on this contract.

_____
Bidder

BY: _____

Title: _____

Address: _____

_____

Date: _____

PLEASE READ CAREFULLY BEFORE SIGNING

To be signed by authorized corporate officer or partner or individual submitting the bid. If bidder is: (example)

1. An individual using a firm name, sign: "John Doe, and individual doing business as Blank Company".

2. An individual doing business under his own name, sign: Your name only.

3. A co-partnership, sign: "John Doe and Richard Doe, co-partners doing business as Blank Company, by, John Doe, Co-Partner".

4. A corporation, sign: "Blank Company, by John Doe, Secretary". (Or other title)

AGREEMENT
(Construction Contract Over $25,000)

THIS AGREEMENT, dated for identification _____, 20__, is made and entered into between the CITY OF SACRAMENTO, a municipal corporation ("City"), and _____ ("Contractor").

The City and Contractor hereby mutually agree as follows:

1. CONTRACT DOCUMENTS

The Contract Documents, sometimes also referred to as the "Contract," consist of the following items, which are hereby incorporated by reference as if set forth in full in this Agreement:

The Notice to Contractors
The Proposal Form submitted by the Contractor
The Instructions to Bidders
The Local Business Enterprise (LBE) Requirements
The Requirements for the Non-Discrimination in Employee Benefits by City Contractors Ordinance and the Declaration of Compliance
The City's Reference Guide for Construction Contracts
The Addenda, if any
This Agreement
The Standard Specifications
The Special Provisions
The Plans and Technical Specifications
The drawings and other data and all developments thereof prepared by City pursuant to the Contract
Any modifications of any of the foregoing made or approved by City, including but not limited to duly authorized change orders.

Unless specifically noted otherwise, references to the "Standard Specifications" shall mean and refer to the Standard Specifications for Public Construction of the City of Sacramento approved by the Sacramento City Council on June 4, 2007 (Resolution No. 2007-350), and any subsequent amendments thereto approved by the Sacramento City Council or the Sacramento City Manager. Work called for in any one Contract Document and not mentioned in another is to be performed and executed as if mentioned in all Contract Documents. The table of contents, titles and headings contained in the Contract Documents are provided solely to facilitate reference to various provisions of the Contract Documents and in no way affect or limit the interpretation of the provisions to which they refer.

2. DEFINITIONS

Unless otherwise specifically provided herein, all words and phrases defined in the Standard Specifications shall have the same meaning and intent in this Agreement.

3. AGREEMENT CONTROLS

In the event of a conflict between any of the terms and conditions set forth in this Agreement and the terms and conditions set forth in other Contract Documents, the terms and conditions set forth in this Agreement shall prevail, except that the provisions of any duly authorized change order shall prevail over any conflicting provisions of this Agreement.

4. SCOPE OF CONTRACT

Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, material and transportation necessary to perform and complete in a good and workmanlike manner to the satisfaction of City, all the Work called for in the Contract Documents entitled:

LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT

(PN: Z14010065)

including the Work called for in the following alternative bid items described in the Proposal Form:

_____

Contractor agrees to perform such Work in the manner designated in and in strict conformity with the Contract Documents.

5. CONTRACT AMOUNT AND PAYMENTS

City agrees to pay and Contractor agrees to accept, as complete payment for the above Work, in accordance with the schedule and procedures set forth in the Contract Documents and subject to deductions, withholdings and additions as specified in the Contract Documents, a total sum that shall not exceed the total bid amount set forth in Contractor's Proposal Form. In addition, subject to deductions, withholdings and additions as specified in the Contract Documents, payment for individual items of the Work shall be computed as follows:

(A) For items of the Work for which a lump sum price is specified in Contractor's Proposal Form, Contractor shall be paid the lump sum price(s) specified in Contractor's Proposal Form; and

(B) For items of the Work for which a unit price is specified in Contractor's Proposal Form, Contractor shall be paid the sum computed at such unit price, or computed at a different price if such different price is determined by City in accordance with the Standard Specifications, based on the actual amount of each such item performed and/or furnished and incorporated in the Work; provided that in no event shall the total sum for a unit price item exceed the total bid amount set forth for such item in the Contractor's Proposal Form, unless authorized by Change Order.

6. PROGRESS PAYMENTS

Subject to the terms and conditions of the Contract, City shall cause payments to be made upon demand of Contractor as follows:

(A) On or about the first of the month, the Engineer shall present to the Contractor a statement showing the amount of labor and materials incorporated in the Work through the twentieth (20) calendar day of the preceding month. After both Contractor and Engineer approve the statement in writing, and the City's labor compliance officer provides written approval, the City shall issue a certificate for ninety-five (95) percent of the amount it shall find to be due, subject to any deductions or withholdings authorized or required under the Contract or any applicable Laws or Regulations.

(B) No inaccuracy or error in said monthly estimates shall operate to release Contractor from damages arising from such Work or from enforcement of each and every provision of the Contract Documents, and City shall have the right subsequently to correct any error made in any estimate for payment.

(C) Contractor shall not be paid for any defective or improper Work.

(D) The remaining five (5) percent of the value of the Work performed under the Contract, if unencumbered and subject to any deductions or withholdings authorized or required under the Contract or any applicable Laws or Regulations, shall be released not later than sixty (60) days after completion and final acceptance of the Work by City. Acceptance by Contractor of the final

payment shall constitute a waiver of all claims against the City arising under the Contract Documents, except for disputed claims in stated amounts that the Contractor specifically reserves in writing, but only to the extent that the Contractor has complied with all procedures and requirements applicable to the presentation and processing of such claim(s) under the Contract Documents. Contractor shall be entitled to substitute securities for retention or to direct that payments of retention be made into escrow, as provided in Public Contract Code Section 22300, upon execution of the City's Escrow Agreement for Security Deposits in Lieu of Retention.

(E) The parties agree that, for purposes of the timely progress payment requirements specified in Public Contract Code Section 20104.50, the date that the City receives a statement jointly approved by the Contractor and the Engineer as provided above shall be deemed to constitute the date that City receives an undisputed and properly submitted payment request from the Contractor. Progress payments not made within 30 days after this date may be subject to payment of interest as provided in Public Contract Code Section 20104.50.

7. RETENTION OF SUMS CHARGED AGAINST CONTRACTOR

When, under the provisions of this Contract or any applicable Laws or Regulations, City is authorized or required to withhold, deduct or charge any sum of money against Contractor, City may deduct and retain the amount of such charge from the amount of the next succeeding progress estimate(s), or from any other moneys due or that may become due Contractor from City. If, on completion or termination of the Contract, sums due Contractor are insufficient to pay City's charges, City shall have the right to recover the balance from Contractor or its Sureties.

8. COMMENCEMENT AND PROSECUTION OF WORK

Contractor shall commence the Work not later than fifteen (15) working days after the date of the written Notice to Proceed from City to Contractor and shall diligently prosecute the Work to final completion. The phase "commence the Work" means to engage in a continuous program on-site including, but not limited to, site clearance, grading, dredging, land filling and the fabrications, erection, or installation of the Work. The Notice to Proceed shall be issued within fifteen (15) calendar days following execution of the Agreement by the City and the filing by Contractor of the required Bonds and proof of insurance, provided that the Engineer may delay issuance of the Notice to Proceed if the Engineer determines in the Engineer's sole discretion that conditions on the site of the Work are unsuitable for commencement of the Work. After the Notice to Proceed is issued, the continuous prosecution of Work by Contractor shall be subject only to Excusable Delays as defined in this Agreement.

9. TIME OF COMPLETION

The entire Work shall be brought to completion in the manner provided for in the Contract Documents on or before **two hundred forty (240) working days** from the date of the Notice to Proceed (hereinafter called the "Completion Date") unless extensions of time are granted in accordance with the Contract Documents.

Failure to complete the entire Work by the Completion Date and in the manner provided for in the Contract Documents shall subject Contractor to liquidated damages as provided in this Agreement. Time is and shall be of the essence in the performance of the Contract and the Work.

10. PAYMENTS DO NOT IMPLY ACCEPTANCE OF WORK

The payment of any progress payment, or the acceptance thereof by Contractor, shall not constitute acceptance of the Work or any portion thereof and shall in no way reduce the liability of Contractor to replace unsatisfactory work or material, whether or not the unsatisfactory character of such work or material was apparent or detected at the time such payment was made.

11. ACCEPTANCE NOT RELEASE

Contractor shall correct immediately any defective or imperfect work or materials that may be discovered before final acceptance of the entire Work, whether or not such defect or imperfection was previously noticed or identified by the City. The inspection of the Work, or any part thereof, shall not relieve Contractor of any of its obligations to perform satisfactory work as herein specified.

Failure or neglect on the part of City or any of its officers, employees or authorized agents to discover, identify, condemn or reject defective or imperfect work or materials shall not be construed to imply an acceptance of such work or materials, if such defect or imperfection becomes evident at any time prior to final acceptance of the entire Work, nor shall such failure or neglect be construed as barring City from enforcing Contractor's warranty(ies) or otherwise recovering damages or such a sum of money as may be required to repair or rebuild the defective or imperfect work or materials whenever City may discover the same, subject only to any statutes of limitation that may apply to any such claim.

12. CITY'S RIGHT TO TAKE POSSESSION OF THE WORK IN WHOLE OR IN PART

The City shall have the right at any time to enter upon the Work and perform work not covered by this Contract, or to occupy and use a portion of the Work, prior to the date of the final acceptance of the Work as a whole, without in any way relieving Contractor of any obligations under this Contract.

13. NO WAIVER OF REMEDIES

Neither the inspection by City, its officers, employees or agents, nor any certificate or other approval for the payment of money, nor any payment for, nor acceptance of the whole or any part of the Work by City, nor any extensions of time, nor any position taken by City, its officers, employees or its agents shall operate as a waiver of any provision of the Contract Documents nor of any power herein reserved to City or any right to damages herein provided, nor shall any waiver of any breach of this Agreement be held to be a waiver of any other or subsequent breach. All remedies provided in the Contract Documents shall be taken and construed as cumulative; in addition to each and every other remedy herein provided, the City shall have any and all equitable and legal remedies that it would in any case have.

14. WARRANTY

Except as otherwise expressly provided in the Contract Documents, and excepting only items of routine maintenance, ordinary wear and tear and unusual abuse or neglect by City, Contractor warrants and guarantees all Work executed and all supplies, materials and devices of whatsoever nature incorporated in or attached to the Work, or otherwise provided as a part of the Work pursuant to the Contract, to be absolutely free of all defects of workmanship and materials for a period of one year after final acceptance of the entire Work by the City. Contractor shall repair or replace all work or material, together with any other work or material that may be displaced or damaged in so doing, that may prove defective in workmanship or material within this one year warranty period without expense or charge of any nature whatsoever to City.

In the event that Contractor shall fail to comply with the conditions of the foregoing warranty within ten (10) days after being notified of the defect in writing, City shall have the right, but shall not be obligated, to repair, or obtain the repair of, the defect and Contractor shall pay to City on demand all costs and expense of such repair. Notwithstanding anything herein to the contrary, in the event that any defect in workmanship or material covered by the foregoing warranty results in a condition that constitutes an immediate hazard to public health or safety, or any property interest, or any person, City shall have the right to immediately repair, or cause to be repaired, such defect, and Contractor shall pay to City on demand all costs and expense of such repair. The foregoing statement relating to hazards to

health, safety or property shall be deemed to include both temporary and permanent repairs that may be required as determined in the sole discretion and judgment of City.

In addition to the above, the Contractor shall make a written assignment of all manufacturer's and other product warranties to the City, prior to completion and final acceptance of the Work by City.

The Contractor's Performance Bond shall secure the performance of the Contractor's obligations under this Section 14, and the Contractor and its Surety shall be jointly and severally liable for these obligations.

15. LIQUIDATED DAMAGES IF WORK NOT COMPLETED ON TIME

(A) The actual fact of the occurrence of damages and the actual amount of the damages that City would suffer if the entire Work, and/or any specified portion thereof, were not completed within the time(s) specified herein are dependent upon many circumstances and conditions that could prevail in various combinations, and for this reason, it is impracticable and extremely difficult to fix the actual damages. Damages that City would suffer in the event of such delay include: loss of the use of the project; expenses of prolonged assignment to the project of an architectural and/or engineering staff; prolonged costs of administration, inspection, and supervision; increased operational expenses and/or impaired operation of other facilities dependent upon completion of the project; and the loss and inconvenience suffered by the public within the City of Sacramento by reason of the delay in the completion of the project or portion thereof. Accordingly, the parties agree, and by execution of this Agreement, Contractor acknowledges that it understands and agrees, that the amount(s) set forth herein as liquidated damages reflect the parties' best efforts at the time of entering into the Contract to estimate the damages that may be incurred by City and the public due to the Contractor's delay in completion of the Work and/or any specified portion thereof, and shall be presumed to be the amount of damages sustained by the failure of Contractor to complete the entire Work and/or any specified portion thereof within the time(s) specified herein.

(B) Contractor shall pay liquidated damages to City for failure to complete the entire Work by the Completion Date (as extended in accordance with the Contract Documents, if applicable) in the amount of **one thousand two hundred dollars ($1,200.00) for each calendar day** for each calendar day after the Completion Date (as extended in accordance with the Contract Documents, if applicable), continuing to the time at which the entire Work is completed. Such amount is the actual cash value agreed upon by the City and Contractor as the loss to City and the public resulting from Contractor's default.

The parties agree, and by execution of this Agreement, Contractor acknowledges that it understands and agrees, that the foregoing provisions provide for the imposition of liquidated damages from the Completion Date (as extended in accordance with the Contract Documents, if applicable) until the date of completion of the entire Work as determined by the Engineer in accordance with Section 8-4 of the Standard Specifications, whether or not the Work or any portion thereof is claimed or determined to be substantially complete prior to such date of completion.

(C) In the event Contractor shall become liable for liquidated damages, City, in addition to all other remedies provided by law, shall have the right to withhold any and all payments that otherwise would be or become due Contractor until the liability of Contractor under this section is finally determined. City shall have the right to use and apply such payments, in whole or in part, to reimburse City for all liquidated damages due or to become due to City. Any remaining balance of such payments shall be paid to Contractor only after discharge in full of all liability incurred by Contractor under this section or otherwise under any provision of the Contract Documents or any applicable Law or Regulation. If the sum so retained by City is not sufficient to discharge all such liabilities of Contractor, Contractor shall continue to remain liable to City until all such liabilities are satisfied in full. No failure by City to withhold any payment as specified above shall in any manner be construed to constitute a release of any such liabilities nor a waiver of the City's right to withhold payment for such liabilities.

16. INDEMNITY AND HOLD HARMLESS

(A) Contractor shall defend, hold harmless and indemnify the City, its officers, employees, and agents, and each and every one of them, from and against any and all actions, damages, costs, liabilities, claims, demands, losses, judgments, penalties, costs and expenses of every type and description, whether arising on or off the site of the Work, including, but not limited to, any fees and/or costs reasonably incurred by City's staff attorneys or outside attorneys and any fees and expenses incurred in enforcing this provision (hereafter collectively referred to as "Liabilities"), including but not limited to Liabilities arising from personal injury or death, damage to personal, real or intellectual property or the environment, contractual or other economic damages, or regulatory penalties, arising out of or in any way connected with performance of or failure to perform the Work by the Contractor, any subcontractor or agent, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, whether or not (i) such Liabilities are caused in part by a party indemnified hereunder, or (ii) such Liabilities are litigated, settled or reduced to judgment; provided that the foregoing indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, damage or expense to the extent arising from (i) the sole negligence or willful misconduct of, or defects in design furnished by, City, its agents, servants, or independent contractors who are directly responsible to City, or (ii) the active negligence of City.

(B) The existence or acceptance by City of any of the insurance policies or coverages described in this Agreement shall not affect or limit any of City's rights under this Section 16, nor shall the limits of such insurance limit the liability of Contractor hereunder. The provisions of this Section 16 shall survive any expiration or termination of the Contract.

17. CONTRACTOR SHALL ASSUME RISKS

Until the completion and final acceptance by City of all Work under this Contract, the Work shall be under Contractor's responsible care and charge, and Contractor, at no cost to City, shall rebuild, repair, restore and make good all injuries, damages, re-erections, and repairs occasioned or rendered necessary by accidental causes of any nature, to all or any portions of the Work.

18. GENERAL LIABILITY OF CONTRACTOR

Except as otherwise herein expressly stipulated, Contractor shall perform all the Work and furnish all the labor, materials, tools, equipment, apparatus, facilities, transportation, power and light, and appliances, necessary or proper for performing and completing the Work herein required in the manner and within the time herein specified. The mention of any specific duty or liability of Contractor shall not be construed as a limitation or restriction of any general liability or duty of Contractor, and any reference to any specific duty or liability shall be construed to be solely for the purpose of explanation.

19. INSURANCE

During the entire term of this Contract and until completion and final acceptance of the Work as provided in the Contract Documents, Contractor shall maintain in full force and effect the insurance coverage described in this section.

Full compensation for all premiums that Contractor is required to pay for the insurance coverage described herein shall be included in the compensation specified for performance of the Work under the Contract. No additional compensation will be provided for Contractor's insurance premiums.

It is understood and agreed by the Contractor that its liability to the City shall not in any way be limited to or affected by the amount of insurance coverage required of or carried by the Contractor.

(A) Minimum Scope and Limits of Insurance Coverage

(1) Commercial General Liability Insurance, providing coverage at least as broad as ISO CGL Form 00 01 on an occurrence basis for bodily injury, including death, of one or more persons, property damage and personal injury, with limits of not less than one million dollars ($1,000,000) per occurrence. The policy shall provide contractual liability and products and completed operations coverage for the term of the policy.

(2) Automobile Liability Insurance providing coverage at least as broad as ISO Form CA 00 01 on an occurrence basis for bodily injury, including death, of one or more persons, property damage and personal injury, with limits of not less than one million dollars ($1,000,000) per occurrence. The policy shall provide coverage for owned, non-owned and/or hired autos as appropriate to the operations of the Contractor.

(3) Workers' Compensation Insurance with statutory limits, and Employers' Liability Insurance with limits of not less than one million dollars ($1,000,000). The Worker's Compensation policy shall include a waiver of subrogation.

(B) Additional Insured Coverage

(1) Commercial General Liability Insurance: The City, its officials, employees and volunteers shall be covered by policy terms or endorsement as additional insureds as respects general liability arising out of activities performed by or on behalf of Contractor, products and completed operations of Contractor, and premises owned, leased or used by Contractor. The general liability additional insured endorsement must be signed by an authorized representative of the insurance carrier.

If the policy includes a blanket additional insured endorsement or contractual additional insured coverage, the above signature requirement may be fulfilled by submitting that document with a signed declaration page referencing the blanket endorsement or policy form.

(2) Automobile Liability Insurance: The City, its officials, employees and volunteers shall be covered by policy terms or endorsement as additional insureds as respects auto liability.

(C) Other Insurance Provisions

The policies are to contain, or be endorsed to contain, the following provisions:

(1) Contractor's insurance coverage shall be primary insurance as respects City, its officials, employees and volunteers. Any insurance or self-insurance maintained by City, its officials, employees or volunteers shall be in excess of Contractor's insurance and shall not contribute with it.

(2) Any failure to comply with reporting provisions of the policies shall not affect coverage provided to City, its officials, employees or volunteers.

(3) Coverage shall state that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

(4) City will be provided with thirty (30) days written notice of cancellation or material change in the policy language or terms.

(D) Acceptability of Insurance

Insurance shall be placed with insurers with a Bests' rating of not less than A:V. Self-insured retentions, policy terms or other variations that do not comply with the requirements of this Section 19 must be declared to and approved by the City Risk Management Division in writing prior to execution of this Agreement.

(E) Verification of Coverage

(1) Contractor shall furnish City with certificates and required endorsements evidencing the insurance required. The certificates and endorsements shall be forwarded to the City representative designated by City. Copies of policies shall be delivered to the City on demand. Certificates of insurance shall be signed by an authorized representative of the insurance carrier.

(2) The City may withdraw its offer of contract or cancel the Contract if the certificates of insurance and endorsements required have not been provided prior to execution of this Agreement. The City may withhold payments to Contractor and/or cancel the Contract if the insurance is canceled or Contractor otherwise ceases to be insured as required herein.

(F) Subcontractors

Contractor shall require and verify that all subcontractors maintain insurance coverage that meets the minimum scope and limits of insurance coverage specified in subsection A, above.

20. FAILURE TO MAINTAIN BONDS OR INSURANCE

If, at any time during the performance of this Contract, Contractor fails to maintain any item of the bonds and/or insurance required under the Contract in full force and effect, Contractor shall immediately suspend all work under the Contract and notify City in writing of such failure. After such notice is provided, or if City discovers such failure and notifies Contractor, the City thereafter may withhold all Contract payments due or that become due until notice is received by City that such bonds and/or insurance have been restored in full force and effect and that the premiums therefor have been paid for a period satisfactory to the Division of Risk Management. Contractor shall not resume work until notified by City to do so, and the City shall have no responsibility or liability for any costs incurred by Contractor as a result of such suspension of Work.

In addition to the foregoing, any failure to maintain any item of the required bonds and/or insurance at any time during the performance of this Contract will be sufficient cause for termination of the Contract by City.

The Contractor shall be solely responsible for, and shall defend, indemnify and hold harmless the City, its officers, employees and agents against and from, any and all damages, claims, losses, actions, costs or other expenses of any kind incurred by any party as a direct or indirect result of any suspension of Work or termination of the Contract under the provisions of this Section.

21. EXCUSABLE DELAYS

For the purpose of these Contract Documents, the term "Excusable Delay" shall mean, and is limited to, delay caused directly by: acts of God; acts of a public enemy; fires; inclement weather as determined by the Engineer; riots; insurrections; epidemics; quarantine restrictions; strikes; lockouts; sitdowns; acts of a governmental agency; priorities or privileges established for the manufacture, assemble, or allotment of materials necessary in the Work by order, decree or otherwise of the United

States or by any department, bureau, commission, committee, agent, or administrator of any legally constituted public authority; changes in the Work ordered by City insofar as they necessarily require additional time in which to complete the Work; the prevention of Contractor from commencing or prosecuting the Work because of the acts of others, excepting Contractor's subcontractors or suppliers; or the prevention of Contractor from commencing or prosecuting the Work because of a Citywide failure of public utility service.

The term "Excusable Delay" shall specifically not include: (i) any delay that could have been avoided by the exercise of care, prudence, foresight and diligence on the part of Contractor; (ii) any delay in the prosecution of any part of the Work that does not constitute a Controlling Operation, whether or not such delay is unavoidable; (iii) any reasonable delay resulting from time required by City for review of any Contractor submittals and for the making of surveys, measurements and inspection; and, (iv) any delay arising from an interruption in the prosecution of the Work on account of reasonable interference by other Contractors employed by City that does not necessarily prevent the completion of the entire Work within the time specified. Excusable Delays, if any, shall operate only to extend the Completion Date (not in excess of the period of such delay as determined by City) and shall not under any circumstances increase the amount City is required to pay Contractor except as otherwise provided in these Contract Documents.

22. CONTRACTOR TO SERVE NOTICE OF DELAYS

Whenever Contractor foresees any delay in the prosecution of the Work, and in any event as soon as possible (not to exceed a period of ten (10) calendar days) after the initial occurrence of any delay that Contractor regards as or may later claim to be an Excusable Delay, the Contractor shall notify the Engineer in writing of such delay and its cause, in order that the Engineer: (i) may take immediate steps to prevent if possible the occurrence or continuance of the delay; or (ii) if this cannot be done, may determine whether the delay is to be considered excusable, how long it continues, and to what extent the prosecution and completion of the Work are delayed thereby. Said written notice shall constitute an application for an extension of time only if the notice requests such an extension and sets forth the Contractor's estimate of the additional time required together with a full description of the cause of the delay relied upon.

After the completion of any part or whole of the Work, the Engineer, in estimating the amount due Contractor, will assume that any and all delays that may have occurred in its prosecution and completion were not Excusable Delays, except for such delays for which the Contractor has provided timely written notice as required herein, and that the Engineer has found to be excusable. Contractor shall not be entitled to claim Excusable Delay for any delay for which the Contractor failed to provide such timely written notice.

23. EXTENSION OF TIME

If the Contractor complies with Section 22, above, and the Engineer finds a delay claimed by the Contractor to be an Excusable Delay, the Contractor shall be allowed an extension of time to complete the Work that is proportional to the period of Excusable Delay determined by the Engineer, subject to the approval by City of a change order granting such time extension. During a duly authorized extension for an Excusable Delay, City shall not charge liquidated damages against the Contractor for such delay.

If the City extends the time to complete the Work as provided herein, such extension shall in no way release any warranty or guarantee given by Contractor pursuant to the provisions of the Contract Documents, nor shall such extension of time relieve or release the sureties of the Bonds provided pursuant to the Contract Documents. By executing such Bonds, the Sureties shall be deemed to have expressly agreed to any such extension of time. The granting of any extension of time as provided herein shall in no way operate as a waiver on the part of City of its rights under this Contract, excepting only extension of the Completion Date for such period of Excusable Delay as may be determined by the Engineer and approved by a duly authorized change order.

24. NO PAYMENT FOR DELAYS

No damages or compensation of any kind shall be paid to Contractor or any subcontractor because of delays in the progress of the Work whether or not such delays qualify for extension of time under this Agreement; except that this provision shall not preclude the recovery of damages for a delay caused by the City that is unreasonable under the circumstances and that is not within the contemplation of the parties, provided that the Contractor timely submits all such written notice(s) and fully complies with such other procedures as may be specified in the Contract Documents or any Laws or Regulations for Contractor to claim damages for such delay.

25. CHANGES IN THE WORK

Changes in the Work authorized or directed in accordance with the Contract Documents and extensions of time of completion made necessary by reason thereof shall not in any way release any warranty or guarantee given by Contractor pursuant to the provisions of the Contract Documents, nor shall such changes in the Work relieve or release the Sureties on Bonds provided pursuant to the Contract Documents. By executing such Bonds, the Sureties shall be deemed to have expressly agreed to any such change in Work and to any extension of time made by reason thereof.

26. TERMINATION AFTER COMPLETION DATE

In addition to any other rights City may have, if any services or work required under the Contract (including but not limited to punch list items) are not completed as of the Completion Date (as adjusted by any extensions of time for Excusable Delays granted pursuant to the Contract Documents), City may terminate the Contract at any time after the Completion Date (as adjusted by any extensions of time for Excusable Delays granted pursuant to the Contract Documents), by providing a written notice to Contractor specifying the date of termination. Such notice also may specify conditions or requirements that Contractor must meet to avoid termination of the Contract on such date. If Contractor fails to fulfill all such conditions and requirements by such termination date, or, if no such conditions or requirements are specified, Contractor shall cease rendering services and performing work on such termination date, and shall not be entitled to receive any compensation for services rendered or work performed after such termination date. In the event of such termination, Contractor shall remain liable to City for liquidated damages incurred for any period of time prior to the termination date.

In addition to any other charges, withholdings or deductions authorized under the Contract or any Laws or Regulations, if City terminates the Contract pursuant to this section, City may withhold and deduct from any payment and/or retention funds otherwise due Contractor any sum necessary to pay the City's cost of completing or correcting, or contracting for the completion or correction of, any services or work under the Contract that are not completed to the satisfaction of the City or that otherwise are deficient or require correction as of such termination date, including but not limited to incomplete punch list items. Such costs shall include all of the City’s direct and indirect costs incurred to complete or correct such services or work, including the City’s administrative and overhead costs. If the amount of payment(s) and/or retention funds otherwise due the Contractor are insufficient to pay such costs, City shall have the right to recover the balance of such costs from the Contractor and/or its Surety(ies).

27. TERMINATION FOR CONVENIENCE

Upon written notice to the Contractor, the City may at any time, without cause and without prejudice to any other right or remedy of the City, elect to terminate the Contract for the convenience of City. In such case, the Contractor shall be paid (without duplication of any items, and after deduction and/or withholding of any amounts authorized to be deducted or withheld by the Contract Documents or any Laws or Regulations):

(A) For Work executed in accordance with the Contract Documents prior to the effective date of termination and determined to be acceptable by the Engineer, including fair and reasonable sums for overhead and profit on such Work;

(B) For reasonable claims, costs, losses, and damages incurred in settlement of terminated contracts with subcontractors, suppliers, and others; and

(C) For reasonable expenses directly attributable to termination.

Contractor shall not be paid for any loss of anticipated profits or revenue for any Work not performed prior to termination, nor for any economic loss arising out of or resulting from such termination, except for the payments listed in this section. Contractor's warranty under Section 14 of this Agreement shall apply, and Contractor shall remain responsible for all obligations related to such warranty, with respect to all portions of the Work performed prior to the effective date of the termination for convenience pursuant to this section. The City shall be entitled to have any or all remaining Work performed by other contractors or by any other means at any time after the effective date of a termination for convenience pursuant to this section.

28. TERMINATION FOR BREACH OF CONTRACT

If Contractor abandons the Work under this Contract, or if the Contract or any portion of the Contract is sublet or assigned without the consent of the City, or if the Engineer determines in the Engineer's sole discretion that the conditions of the Contract in respect to the rate of progress of the Work are not being fulfilled or any part thereof is unnecessarily delayed, or if Contractor violates or breaches, or fails to execute in good faith, any of the terms or conditions of the Contract, or if Contractor refuses or fails to supply enough properly skilled labor or materials or refuses or fails to make prompt payment to subcontractors for material or labor, or if Contractor disregards any Laws or Regulations or proper instruction or orders of the Engineer, then, notwithstanding any provision to the contrary herein, the City may give Contractor and its Sureties written notification to immediately correct the situation or the Contract shall be terminated.

In the event that such notice is given, and, in the event such situation is not corrected, or arrangements for correction satisfactory to the City are not made, within ten (10) calendar days from the date of such notice or within such other period of time as may be specified by the City in the notice, the Contract shall upon the expiration of said period cease and terminate. In the event of any such termination, City may take over the Work and prosecute the Work to completion, or otherwise, and the Contractor and its Sureties shall be liable to City for any cost occasioned City thereby, as hereinafter set forth.

In the event City completes the Work, or causes the Work to be completed, no payment of any kind shall be made to Contractor until the Work is complete. The cost of completing the Work, including but not limited to, extra costs of project administration and management incurred by City, both direct or indirect, shall be deducted from any sum then due, or that becomes due, to Contractor from City. If sums due to Contractor from City are less than the cost of completing the Work, Contractor and its Sureties shall pay City a sum equal to this difference on demand. In the event City completes the Work, and there is a sum remaining due to Contractor after City deducts the costs of completing the Work, then City shall pay such sum to Contractor. The Contractor and Contractor's Sureties shall be jointly and severally liable for all obligations imposed on Contractor hereunder.

No act by City before the Work is finally accepted, including, but not limited to, exercise of other rights under the Contract, actions at law or in equity, extensions of time, payments, assessments of liquidated damages, occupation or acceptance of any part of the Work, waiver of any prior breach of the Contract or failure to take action pursuant to this section upon the happening of any prior default or breach of Contractor, shall be construed to be a waiver or estoppel of the City's right to act pursuant to this Section upon any subsequent event, occurrence or failure by Contractor to fulfill the terms and conditions of the Contract. The rights of City to terminate the Contract pursuant to this Section and

pursuant to Sections 26 and 27 are cumulative and are in addition to all other rights of City pursuant to the Contract and at law or in equity.

29. CONTRACTOR BANKRUPT

If Contractor should commence any bankruptcy proceeding, or if Contractor is adjudged a bankrupt, or if Contractor makes any assignment for the benefit of creditors, or if a receiver is appointed on account of Contractor's insolvency, then the City may, without prejudice to any other right or remedy, terminate the Contract and complete the work by giving notice as provided in Section 28 above.

30. SURETIES' OBLIGATIONS UPON TERMINATION

If the City terminates the Contract pursuant to Section 28 or Section 29 above:

(A) The Surety under Contractor's performance bond shall be fully responsible for all of the Contractor's remaining obligations of performance under the Contract as if the Surety were a party to the Contract, including without limitation Contractor's obligations, as provided in the Contract Documents, to complete and provide a one-year warranty of the entire Work, pay liquidated damages and indemnify, defend and hold harmless City, up to the full amount of the performance bond.

(B) The Surety under Contractor's payment bond shall be fully responsible for the performance of all of the Contractor's remaining payment obligations for work, services, equipment or materials performed or provided in connection with the Work or any portion thereof, up to the full amount of the payment bond.

31. ACCOUNTING RECORDS OF CONTRACTOR

During performance of the Contract and for a period of three (3) years after completing the entire Work, Contractor shall maintain all accounting and financial records related to the Contract and performance of the Work in accordance with generally accepted accounting practices, and shall keep and make such records available for inspection and audit by representatives of the City upon reasonable written notice.

32. USE TAX REQUIREMENTS

During the performance of this Agreement, CONTRACTOR, for itself, its assignees and successors in interest, agrees as follows:

(A) Use Tax Direct Payment Permit: For all leases and purchases of materials, equipment, supplies, or other tangible personal property used to perform the Agreement and shipped from outside California, the Contractor and any subcontractors leasing or purchasing such materials, equipment, supplies or other tangible personal property shall obtain a Use Tax Direct Payment Permit from the California State Board of Equalization ("SBE") in accordance with the applicable SBE criteria and requirements.

(B) Sellers Permit: For any construction contract and any construction subcontract in the amount of $5,000,000 or more, Contractor and the subcontractor(s) shall obtain sellers permits from the SBE and shall register the jobsite as the place of business for the purpose of allocating local sales and use tax to the City. Contractor and its subcontractors shall remit the self-accrued use tax to the SBE, and shall provide a copy of each remittance to the City.

(C) The above provisions shall apply in all instances unless prohibited by the funding source for the Agreement.

IN WITNESS WHEREOF, the parties hereto have signed this Agreement on the date set for opposite their names.

CONTRACTOR

Under penalty of perjury, I certify that the taxpayer identification number and all other information provided here are correct.

DATE _____

BY_____

_____
Print Name

_____
Title

BY_____

_____
Print Name

_____
Title

_____
Federal ID#

_____
State ID#

_____
City of Sacramento Business Operation Tax Certificate No. (City will not award contract until Certificate Number is obtained)

Type of Business Entity *(check one)*:
_____ Individual/Sole Proprietor
_____ Partnership
_____ Corporation
_____ Limited Liability Company
_____Other (*please specify:*_____)

CITY OF SACRAMENTO
a municipal corporation

DATE _____

BY _____

For: _____
City Manager

Original Approved As To Form:

_____
City Attorney

Attest:

_____
City Clerk

CITY OF SACRAMENTO **Bond #:_____**
PERFORMANCE BOND **Premium: _____**
Department of Utilities

WHEREAS, the City of Sacramento, in the State of California, hereinafter called City has conditionally awarded to (*here insert full name and address of Contractor)*:

as principal, hereinafter called Contractor, an agreement for construction of:

LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT
(PN: Z14010065) (B14141321018)

in accordance with the plans, specifications, drawings, conditions, and project manual prepared therefore, which agreement is by reference made a part hereof, and is hereinafter referred to as the Contract; and

WHEREAS, under the terms of the Contract, Contractor is required to furnish a bond for the faithful performance of the Contract.

NOW, THEREFORE, we the Contractor and (*here insert full name and address of Surety*):

_____, a corporation duly authorized and admitted to transact business and issue surety bonds in the State of California, hereinafter called Surety, are held and firmly bound unto the City, as obligee, in the sum of _____DOLLARS $_____), for the payment of which sum well and truly to be made, we the Contractor and Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally. The condition of this obligation is such that, if the Contractor, Contractor's heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and fully perform all covenants, conditions and agreements required to be kept and performed by Contractor in the Contract and any changes, additions or alterations made thereto, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meanings, and shall indemnify and save harmless the City, its officers, employees and agents, as therein provided, then this obligation shall be null and void; otherwise shall be and remain in full force and effect. This obligation shall remain in full force and effect until (1) the date that the Contractor no longer has any remaining obligation of performance under the Contract, or (2) the date that is one year after the date that the work to be performed under the Contract is accepted as complete by the City, whichever occurs later.

As part of the obligation secured hereby and in addition to the sum specified above, there shall be included all costs, expenses and fees, including attorney's fees, reasonably incurred by City in successfully enforcing such obligation, all to be taxed as costs and included in any judgement rendered.

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

IN WITNESS WHEREOF, this instrument has been duly executed by authorized representatives of the Contractor and Surety.
SIGNED AND SEALED on _____, 2014.

_____
(Contractor) (Seal)

By _____

Title _____

ORIGINAL APPROVED AS TO FORM:

_____
City Attorney

_____
(Surety) (Seal)

By _____

Title _____
Agent Name and Address _____

_____
Agent Phone # _____
Surety Phone # _____
California License # _____
Surety Email: _____

CITY OF SACRAMENTO Bond No: _____
PAYMENT BOND Premium: _____
Department of Utilities

WHEREAS, the City of Sacramento, in the State of California, hereinafter called City, has conditionally awarded to:

hereinafter called Contractor, a contract for construction of:

LITTLE POCKET AND TAHOE PARKWATER MAIN REPLACEMENT PROJECT
(PN: Z14010065) (B14141321018)

Which contract is by reference incorporated herein and made a part hereof, and is hereinafter referred to as the Contract; and

WHEREAS, under the terms of the Contract and pursuant to Chapter 5 of Title 3 of Part 6 of Division 4 of the California Civil Code (commencing with Civil Code Section 9550), Contractor is required to furnish a good and sufficient payment bond to secure payment of the claims to which reference is made in Civil Code Section 9554.

NOW, THEREFORE, we the Contractor and (*here insert full name and address of Surety*):

_____, a corporation a corporation duly authorized and admitted to transact business and issue surety bonds in the State of California, hereinafter called Surety, are held and firmly bound unto the City, and unto all persons or entities entitled to assert a claim against a payment bond under any of the aforesaid Civil Code provisions in the sum of _____DOLLARS ($_____), on the condition that if Contractor shall fail to pay for any materials or equipment furnished or used in performance of the Contract, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board or the Employment Development Department from the wages of employees of the Contractor and all subcontractors with respect to such work or labor, then the Surety shall pay the same in an amount not exceeding the sum specified above. If suit is brought upon this bond, Surety shall pay, in addition to the above sum, all costs, expenses and fees, including attorney's fees, reasonably incurred by any party in successfully enforcing the obligation secured hereby, all to be taxed as costs and included in any judgment rendered. Should the condition of this bond be fully performed, then this obligation shall become null and void, otherwise it shall be and remain in full force and effect, and shall bind Contractor, Surety, their heirs, executors, administrators, successors and assigns, jointly and severally.

It is hereby stipulated and agreed that this bond shall inure to the benefit of all persons, companies, corporations, political subdivisions, State agencies and other entities entitled to assert a claim against a payment bond under any of the aforesaid Civil Code provisions, so as to give a right of action to them or their assigns in any suit brought upon this bond. The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or to the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration or addition.

IN WITNESS WHEREOF, this instrument has been duly executed by authorized representatives of the Contractor and Surety.
SIGNED AND SEALED on _____ 2014.

_____
(Contractor) (Seal)

By _____

Title _____

ORIGINAL APPROVED AS TO FORM:

_____
City Attorney

_____
(Surety) (Seal)

By _____

Title _____
Agent Name and Address _____

_____
Agent Phone # _____
Surety Phone # _____
California License # _____
Surety Email: _____

Effective 7-1-12

CALFIRONIA LABOR CODE RELATING TO APPRENTICES ON PUBLIC WORKS PROJECTS

See following links: www.dir.ca.gov and/or www.leginfo.ca.gov

Form **W-9**
(Rev. August 2013)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

Print or type
See Specific Instructions on page 2.

Name (as shown on your income tax return)

Business name/disregarded entity name, if different from above

Check appropriate box for federal tax classification:
☐ Individual/sole proprietor ☐ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶

☐ Other (see instructions) ▶

Exemptions (see instructions):
Exempt payee code (if any)
Exemption from FATCA reporting code (if any)

Address (number, street, and apt. or suite no.)

Requester's name and address (optional)

City, state, and ZIP code

List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number
☐☐☐ – ☐☐ – ☐☐☐☐

Employer identification number
☐☐ – ☐☐☐☐☐☐☐

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below), and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here Signature of U.S. person ▶ Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. The IRS has created a page on IRS.gov for information about Form W-9, at *www.irs.gov/w9*. Information about any future developments affecting Form W-9 (such as legislation enacted after we release it) will be posted on that page.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, payments made to you in settlement of payment card and third party network transactions, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct.

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

YEAR

CALIFORNIA FORM

2014 Withholding Exemption Certificate 590

The payee completes this form and submits it to the withholding agent.

Withholding Agent (Type or print)

Name

Payee

Name ☐ SSN or ITIN ☐ FEIN ☐ CA Corp no. ☐ CA SOS file no.

Address (apt./ste., room, PO Box, or PMB no.)

City (If you have a foreign address, see instructions.) | State | ZIP Code

Exemption Reason

Check only one reason box below that applies to the payee.

By checking the appropriate box below, the Payee certifies the reason for the exemption from the California income tax withholding requirements on payment(s) made to the entity or individual.

☐ **Individuals — Certification of Residency:**
I am a resident of California and I reside at the address shown above. If I become a nonresident at any time, I will promptly notify the withholding agent. See instructions for General Information D, Definitions.

☐ **Corporations:**
The corporation has a permanent place of business in California at the address shown above or is qualified through the California Secretary of State (SOS) to do business in California. The corporation will file a California tax return. If this corporation ceases to have a permanent place of business in California or ceases to do any of the above, I will promptly notify the withholding agent. See instructions for General Information D, Definitions.

☐ **Partnerships or limited liability companies (LLCs):**
The partnership or LLC has a permanent place of business in California at the address shown above or is registered with the California SOS, and is subject to the laws of California. The partnership or LLC will file a California tax return. If the partnership or LLC ceases to do any of the above, I will promptly inform the withholding agent. For withholding purposes, a limited liability partnership (LLP) is treated like any other partnership.

☐ **Tax-Exempt Entities:**
The entity is exempt from tax under California Revenue and Taxation Code (R&TC) Section 23701 _____ (insert letter) or Internal Revenue Code Section 501(c) _____ (insert number). If this entity ceases to be exempt from tax, I will promptly notify the withholding agent. Individuals cannot be tax-exempt entities.

☐ **Insurance Companies, Individual Retirement Arrangements (IRAs), or Qualified Pension/Profit Sharing Plans:**
The entity is an insurance company, IRA, or a federally qualified pension or profit-sharing plan.

☐ **California Trusts:**
At least one trustee and one noncontingent beneficiary of the above-named trust is a California resident. The trust will file a California fiduciary tax return. If the trustee or noncontingent beneficiary becomes a nonresident at any time, I will promptly notify the withholding agent.

☐ **Estates — Certification of Residency of Deceased Person:**
I am the executor of the above-named person's estate or trust. The decedent was a California resident at the time of death. The estate will file a California fiduciary tax return.

☐ **Nonmilitary Spouse of a Military Servicemember:**
I am a nonmilitary spouse of a military servicemember and I meet the Military Spouse Residency Relief Act (MSRRA) requirements. See instructions for General Information E, MSRRA.

CERTIFICATE OF PAYEE: Payee must complete and sign below.

Under penalties of perjury, I hereby certify that the information provided in this document is, to the best of my knowledge, true and correct. If conditions change, I will promptly notify the withholding agent.

Payee's name and title (type or print) _____ Telephone (_____)_____

Payee's signature ▶ _____ Date _____

SPECIAL PROVISIONS

SPECIAL PROVISIONS

FOR

LITTLE POCKET AND TAHOE PARK WATER MAIN REPLACEMENT PROJECTS

(PN: Z14010065)

REGISTERED PROFESSIONAL ENGINEER
Karl Brustad
No. 57869
Exp. 06/30/14
CIVIL
STATE OF CALIFORNIA
4/1/14

REGISTERED PROFESSIONAL ENGINEER
David M. Murbach
No. 54419
Exp. 12/31/15
CIVIL
STATE OF CALIFORNIA
4-1-14

PETERSON . BRUSTAD . INC
ENGINEERING . CONSULTING

BID DOCUMENTS
SPECIAL PROVISIONS FOR
LITTLE POCKET AND TAHOE PARK
WATER MAIN REPLACEMENT PROJECTS
(PN: Z14010065)

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(available on CD only upon request)

SECTION 1. GENERAL CONSTRUCTION REQUIREMENTS

1.01 Scope of Work

The work to be performed under these Special Provisions consists of furnishing and placing 6-inch, 8-inch, and 12-inch diameter water mains. Also included is furnishing and installing fittings, valves, fire hydrants, other appurtenances, water services, meter setters, meter boxes, meter lids, and meters at various commercial and residential properties within designated areas of the City of Sacramento as indicated on the plans, and connecting to the existing distribution system as indicated on the Plans. This contract also covers connecting City water services to existing residential water services, removing existing fire hydrants and abandoning existing mains as shown on the Plans and in these Special Provisions.

The Contractor shall provide all labor, materials, tools, and equipment to complete in place all work necessary to furnish, install, remove, abandon, pressure test, disinfect, and connect the water pipe, appurtenances as shown in the Plans and as specified in these Special Provisions. The work shall be so performed that upon contract completion the project shall be ready for use as described in these Special Provisions.

1.02 Specifications

The work to be performed under this contract shall be done in accordance with the Special Provisions contained herein. In these Special Provisions, reference is made to the Standard Specifications of the City of Sacramento, adopted June 2007, referred to herein as "City Standard Specifications", including all Addendums. Reference may also be made to the State of California, Department of Transportation, Standard Specifications referred herein as "State Standard Specifications".

The general requirements of this contract shall be governed by these Special Provisions first, followed by Sections 1 through 8 of the City Standard Specifications. Other Standards or Specifications specified in these Special Provisions govern only the applicable technical specifications.

1.03 Interpretation of Contract Documents

Questions from bidder's concerning the interpretation of any portion of the contract documents may be directed to Jesus Reyes of the City of Sacramento, Department of Utilities, 1395 35th Ave, Sacramento, California, 95822, phone (916) 808-1721.

Interpretation, where necessary, will be made by the City in the form of an addendum to the contract documents and, when issued, will be sent as promptly as is practicable to all parties to whom the bid documents have been issued. All such addenda shall become part of the contract.

It shall also be the bidder's responsibility to call to the attention of the Engineer any missing pages or drawings in the contract documents, including the addenda. These items shall be brought to the attention of the Engineer at least one (1) week prior to the bid opening date.

1.04 Governing Documents

1) All work performed under this contract shall be in accordance with the following general requirements:
   a) Sealed Proposal
   b) Agreement
   c) City Standard Specifications - Sections 1 through 8

2) All work performed under this contract shall be in accordance with the following provisions:
   a) Special Provisions
   b) Contract Plans
   c) City Standard Specifications - Sections 10 through 38
   d) California Labor Code - Chapter 4 of Division 3

In the event of a conflict in the Contract Documents, the governing priorities, when appropriate, shall be in accordance with Section 5 of the City Standard Specifications.

1.05 Shop Drawings and Submittals

The Contractor's shop drawings and submittals shall include, but not be limited to, the following:

1. Construction Activity Time Schedule
2. Traffic Control Plan
3. Water Distribution Pipe
4. Gate Valves and Fittings
5. Fire Hydrant Assemblies
6. Blow-Off Assemblies
7. City and Residential Water Service Materials
8. Meters (including registers)

9. Meter boxes and lids
10. Street Resurfacing Material
11. Concrete Material
12. Public Notification Information
13. Phasing Plan
14. Erosion, Sediment, and Pollution Control Plan
15. Pipe Abandonment Plan

The Contractor shall keep one copy of the approved Traffic Control Plan and the Water Quality Control Plan at the construction site at all times.

To achieve standardization of appearance, maintenance, and replacement, like items of materials provided under these Special Provisions shall be the end product of one manufacturer.

Contractor shall comply with shop drawings and submittal and procedures in accordance with Section 5 of the City Standard Specifications.

NSF 61 compliance for all materials used on the project shall be stated in the submittals.

1.06 Project Signs

Prior to beginning any onsite work the contractor shall install a total of 6 project signs. The signs shall be supplied by the City and are approximately 30 inches by 54 inches. Signs will be installed in the following locations or as directed by the Engineer:

- Little Pocket Project Area:
  - Seamas Ave and Riverside Blvd
  - Piedmont Dr and Riverside Blvd
- Tahoe Park Project Area:
  - 11th Ave and 58th St
  - 14th Ave and 58th St
  - 11th Ave and 65th St
  - 14th Ave and 65th St

Height of sign installation shall be as directed by the Engineer. In general, the signs shall be affixed to a 4"x4" post supplied by the Contractor and installed a minimum of 7 feet and maximum of 10 feet above surrounding grade. If acceptable to the Engineer an existing sign post may be used, otherwise, the Contractor shall be required to install a new post. The sign and post installed by the Contractor shall be removed at the end of the project and the sign returned to the City.

1.07 Manufacturer's Instructions

Contractor shall provide and comply with manufacturer's installation instructions and procedures in accordance with Section 5 of the City Standard Specifications.

1.08 Equipment to be Supplied

All equipment, material and supplies called for on the Plans and Specifications shall be new and currently manufactured items, unless otherwise specified.

All equipment shall be complete and in operation to the satisfaction of the Engineer at the time of acceptance of the work.

1.09 Proof of Compliance with Contract

In order that the Engineer may determine whether the Contractor has complied with the requirements of the contract documents not readily determinable through inspection and tests of plant, equipment, work, or materials, the Contractor shall at any time when requested, at the Contractor's expense, submit to the Engineer properly authenticated documents or other satisfactory proofs as to his compliance with such requirements.

1.10 Construction Activity Time Schedule

The Contractor shall submit a detailed schedule in accordance with Section 7 of the Standard Specifications. No progress payments will be made for work completed prior to acceptance of the schedule.

The activity time schedule shall indicate the chronological sequence in which the Contractor proposes to carry out each aspect of the work, the calendar dates on which the Contractor will begin the several salient elements of the work (procurement and delivery of materials, posting of "No Parking" signs, notification of property owners, scheduling of equipment, excavation of trenches, placement of pipe, etc), and the contemplated dates for completing said salient elements.

The Contractor shall contact the Engineer at least forty-eight (48) hours in advance of any change in the work schedule. If the Contractor desires to make a major change in his method or operations after commencing construction, or if the activity time schedule fails to reflect the actual progress of the work, the Contractor shall submit a revised schedule to the Engineer in advance of beginning revised operations.

At the very minimum, the Contractor shall update the construction activity time schedule every thirty (30) calendar days throughout the duration of the project.

1.11 Weekly Updates

Every Monday the Contractor shall submit an address list of all residential water services installed and/or connected the prior week and a list of addresses scheduled for installation or connection in the upcoming week.

To allow the Engineer the opportunity to determine or adjust the new service diameter and location, the Contractor shall include potholing information in the weekly update. This shall include the address, existing service location and the existing diameter of both City and Residential Service lines. This potholing information shall be on file with the engineer five (5) working days prior to scheduling and/or installing the new service.

1.12 Same Superintendent and Work Crew Required

In addition to Contractor's obligations to utilize competent and skilled workers and to remove unsatisfactory workers as specified in Section 7 of the Standard Specifications, Contractor shall maintain the same Superintendent and work crew on the job site throughout performance of the Contract, and Contractor shall not change Contractor's Superintendent and/or work crew prior to completion of the Work unless approved in writing by the Engineer prior to such change; provided that the Engineer's approval shall not be required for Contractor to replace employees terminated by Contractor.

1.13 Water Quality Control

Water Quality Control measures shall be at a minimum in accordance with Section 16 of the City Standard Specifications. The Contractor shall prepare and submit a site specific erosion, sediment and pollution control plan (ESC Plan) that identifies all construction activities that could impact water quality and provide all the necessary mitigation BMP measures that will eliminate the discharge of any pollutants to the City's drainage system or waterways. The ESC Plan shall be submitted a minimum of 48 hours prior to start of the work. The Contractor shall not begin work until an accepted ESC Plan is on file with the Engineer.

1.14 Record Drawings

The Contractor shall maintain a neatly and accurately marked set of record drawings in accordance with Section 5 of the City Standard Specifications.

The record drawings shall include any deviations to the plans, including but not limited to, locations for gate valves, fire hydrants, blow-offs, meter setters placed, service material type, etc. Location description examples of the information the Contractor shall compile can be found in Appendix A.

1.15 Definitions

For definitions not found herein refer to Section 1 of the City Standard Specifications.

"Provide" shall mean furnish and install in accordance to the Plans and Specifications.

"Hybrid Water Service" shall consist of a 1-inch City Service (including meter, meter box and meter setter assembly) followed by 1 ½-inch diameter Residential Water Service materials.

"Residential Water Service" or "Residential Water System" shall mean the water service pipe and appurtenances from the property owner's side of the curb stop (or meter setter) to and including all points of connection at the house.

"Retrofit" or "Retrofit Meter" shall mean intercepting existing Water Service Laterals, and placing a water meter, metering appurtenances and a water meter box in accordance with the Plans and Specifications.

"Water Distribution Personnel" shall mean an appointed representative from the Department of Utilities.

"Water Service Lateral" or "City Service" shall mean the water service pipe placed from the water main up to and including the curb stop (or meter setter).

1.16 Project Closeout

The issuance of a punch list, final acceptance of the work, and the final payment shall be in accordance with Section 8 of the City Standard Specifications.

When the contractor notifies the Engineer that the project has been completed the Engineer shall perform a walk through and develop a list of deficient work items.

After the contractor completes correction of the deficiencies to the satisfaction of the Engineer, a final walk through will be scheduled with the City Operation and Maintenance personnel. At the final walk through a punch list will be developed and submitted to the Contractor. The Contractor shall notify the Engineer when punch list items have been completed. The Engineer will then inspect the punch list work. If the work is completed to the satisfaction of the Engineer, and if as-built drawings are completed and submitted, a completion report will be prepared.

As part of the as-built drawings, a Construction Information Table is included on the Plans. Contractor shall fill out and sign the table after project completion.

1.17 Permanent Survey Monuments

Contractor is responsible for verifying that the arrangements have been made for preserving and/or perpetuating all permanent survey monuments that will be affected by the work in accordance with Section 5 of the City Standard Specifications.

1.18 City Ordinance Related to Construction Work

The City has adopted an ordinance amending Chapter 12.20 of the City Code that establishes additional minimum requirements and restrictions relating to construction activities within the City limits and establishes administrative penalties associated with non-compliance of these requirements. The ordinance includes the following general categories:

A. Working hours for the City's "Primary Streets"
B. Traffic control plan requirements
C. Access to private property
D. Maintenance of construction areas
E. Repair of traffic control systems
F. Care of existing known facilities
G. Public notification
H. Noise levels
I. Administrative Penalties

Copies of the ordinance are available from the City Clerk's Office, 915 I Street, Sacramento, CA 95814.

1.19 Daily Coordination Required

In addition to the responsibilities of the Contractor and the Contractor's Superintendent as detailed in Section 5 of the Standard Specifications, the Contractor's Superintendent or other Contractor representative approved by City shall meet with City's representative(s) at the job site each working day, once each morning and once each afternoon, for a total of approximately one (1) hour per working day. The purpose of such required meetings shall be to maintain close coordination between the Contractor and City throughout performance of the Contract, and the matters to be addressed at such meetings shall include, but are not limited to the following: reviewing the current working day's projected work schedule, updating the City representative on the current working day's completed work, communicating regarding customer notification, placement of meter boxes, type of meter box to place at each property identified on the daily work schedule, valve placements and abandonments, identifying concrete work scheduled for the next working day, quantities of completed services placed each day, pay estimates, job walks as required by the City representative to identify anomalies, and reviewing USA markings.

1.20 Lead Free Water Works Pipe and Fittings

Notwithstanding any other provision of the Contract Documents, all materials installed shall comply with the requirements of Section 116875 of the California Health & Safety Code.

1.21 Order of Work

The Contractor shall construct the water main, including temporary water main and services, in 14th Avenue as the first construction phase.

1.22 Unbalanced Bid Items

Section 2 of the Standard Specifications authorizes the City to reject a Proposal in which the bid(s) submitted for one or more items are obviously unbalanced, as reasonably determined by the City. As an alternative to rejection of the Proposal, if the bid(s) submitted for one or more items are obviously unbalanced, as reasonably determined by the City, the City may: (1) disregard the bid(s) submitted for the subject item(s) and require the Contractor to perform the subject item(s) of work with payment by cost and percentage, as specified in Section 8 of the Standard Specifications; or (2) delete the subject item(s) of work in their entirety, in which case the Contractor shall not receive any compensation for the deleted item(s). The Contractor shall provide any documentation or other information requested by City to

determine whether the bid(s) submitted for one or more items are obviously unbalanced.

1.23 Payment

No separate payment will be made to the Contractor for complying with the requirements of this section. The cost of such work shall be included in whatever bid item the Contractor deems appropriate.

END OF SECTION

SECTION 2. PUBLIC CONVENIENCE & PROTECTION OF EXISTING IMPROVEMENTS

2.01 Public Right-of-Way and Easements

All water, sewer and drainage mains constructed as part of this project are to be placed within Public Street and alley rights-of-way. The Contractor shall confine his or her operations within the limits of existing street right-of-way or easements as much as practicable.

This project encroaches onto private property. As a condition of receiving or continuing to receive City water service, private property owners are required, per City Code 13.04.065, to provide access to the premises for the purpose of this project. Should the owner of a property within the project limits refuse to allow such access, the Contractor shall notify the City, who shall attempt to gain proper authorization for access.

If the Contractor finds it necessary to encroach onto private property outside the limits of the project, the Contractor shall make all necessary arrangements with the owner of the property for such encroachment. A copy of any written agreements entered into between the Contractor and the property owner concerning encroachment onto private property shall be provided to the Engineer prior to beginning any work on the property described in the agreement.

2.02 Existing Utilities

The location, alignment, and depth of existing underground utilities as shown on the Plans are taken from public records and no responsibility is assumed for the accuracy thereof. For the most part, underground utility services are not shown on the Plans.

Attention is directed to the provisions in Section 6 of the Standard Specifications.

The Contractor will insure that utility services to customers in the project are maintained.

The Contractor is responsible for the protection of and for damage to existing overhead and underground utility lines and services encountered during the course of construction. The Contractor shall notify the respective utility owner prior to any interruption of service.

The Contractor is expected to excavate existing underground utilities a minimum of ten (10) working days in advance at any location where an existing utility may be in conflict with the proposed work.

The cost of relocating existing overhead or underground utilities not specified on plans to be relocated, but which the Contractor elects to relocate or cut and reconnect for his/her own convenience, shall be borne by the Contractor.

2.03 Maintaining Water, Sewer, and Drainage Flows

The Contractor shall be responsible for maintaining water, sewer, and drainage flows including emergency repairs and temporary bypasses in accordance with Section 13 of the City Standard Specifications.

In addition to Section 13 provisions, any landscaping irrigation water lines cut or broken by the Contractor, but not immediately repaired, shall be capped until repairs can be made. The Contractor shall make repairs within 2 working days of having cut or broken such irrigation lines unless otherwise approved by the Engineer. In the interim, the Contractor shall be responsible for ensuring all locations served by the irrigation lines continue to be provided adequate water. Any landscaping that dies, or fails to recover as a result of the Contractors actions shall be replaced in kind.

2.04 Maintaining Existing Electrical Facilities

Maintaining existing electrical facilities shall be in accordance with Section 34 of the City Standard Specifications and these Special Provisions.

The Contractor shall ascertain the exact location and depth of existing electrical facilities before any electrical work begins. Any damage done to existing electrical facilities that is caused by the Contractor shall be repaired immediately and at the Contractor's expense. The Contractor shall trench under all existing traffic signal and street lighting conduits.

Temporary shutdowns of traffic signals shall be in accordance with Section 34 of the City Standard Specifications.

2.05 Work Performed by City Crews

The Contractor is advised that the City retains the option of performing with City crews, all or a portion of any work involved in relocation, repairing, or otherwise restoring existing sewer, water, and drainage systems and services to developed properties within the limits of the project that may be in conflict with the proposed

project improvements. Any such work performed by City forces will be at the discretion and convenience of the City.

Should the Contractor desire City forces to cut and repair existing water, sewer, or drain services, the Contractor shall contact the Engineer at least three (3) working days in advance to schedule and coordinate the work.

All work performed and materials provided by the City will be paid for by the Contractor or removed from this contract at no additional cost to the City in accordance with Section 4 of the City Standard Specifications.

2.06 Maintenance of Traffic and Public Safety

The Contractor's attention is directed to Sections 6, 7, and 16 of the City Standard Specifications.

Spillage shall be removed immediately in accordance with Section 6 of the City Standard Specifications.

Water or dust palliative shall be applied in accordance with Section 6 of the City Standard Specifications.

Contractor shall not interfere with or impair any railroad operations in accordance with Section 6 of the City Standard Specifications.

The Contractor shall be required to establish traffic scheduling and control measures acceptable to the Engineer prior to starting any work. The Contractor shall submit to the Engineer for review and approval a plan in accordance with Section 6 of the City Standard Specifications. This plan shall be submitted a minimum of ten (10) working days prior to the scheduled commencement of any work by the Contractor. **The Contractor will not be allowed to begin work until an approved plan is on file with the Engineer.**

The Contractor shall notify Norm Colby, via the Engineer, at the Traffic Signal Maintenance Shop, (916) 808-6635, ten (10) working days before any electrical work begins.

The Contractor's traffic control plan shall provide for the following:

1. The Contractor shall provide access to all driveways or alleys at all times except when excavation is in progress, when forms are in place, or when concrete or asphalt is being placed. The Contractor shall take precautions so as not to entrap vehicles on private property during the progress of the work.

Driveways may be closed only during normal working hours and only after giving property owners a minimum of twenty-four (24) hours written notice in advance of the closure.

2. Rear access to building and existing parking areas behind buildings shall be maintained. Contractor may close such access for a limited time only if arrangements have been made with property owners. Contractor shall give property owners forty-eight (48) written hours notice in advance of the closure.

3. Vehicle and pedestrian access to driveways, houses, and commercial businesses along the streets, alleys, and easements within the limits of the project shall be maintained. Access for emergency vehicles shall be available along all streets within the construction area at all times.

4. The entire roadway width of all streets within the limits of the project shall be kept open for traffic at night, during weekends, on holidays, and during other time periods when work is not in progress. Steel plates or other approved methods shall be used to cover all open excavations in roadways during non-working hours.

5. City working hours are defined to be between 7:00 A.M. and 6:00 P.M., Monday through Friday excluding Legal Holidays, unless otherwise noted in these Special Provisions. For work done before 7:00 A.M. or after 6:00 P.M., or during all daylight hours between 6:00 P.M. Friday to 7:00 A.M. Monday, arrangements shall be made with the property owners in advance and approved by the Engineer.

6. A changeable message board shall be required on all primary streets.

   The Contractor is hereby alerted that Riverside Blvd, 14th Avenue and 65th Street are designated as "Primary Streets" in accordance with Section 6 of the City Standard Specifications. The working hours on Riverside Blvd is reduced to 8:30 AM to 4:00 PM, Monday through Friday. As such, by City ordinance 2002-004, the contractor will be assessed administrative penalties of $1000.00 per code violation every 15 minutes that the contractor violates the code.

   The Contractor is required to submit a completed "Traffic Alert" form to the City, ten (10) working days prior to closure. A sample "Traffic Alert" form is included in Appendix C.

   The Contractor is also alerted that Regional Transit has bus routes within the project area. The Contractor is required to coordinate with Regional Transit for any street closures or bus service that may be disrupted during the course of construction.

The Contractor is alerted that Riverside Blvd and 65th Street are active Regional Transit bus routes. The Contractor is required to coordinate with Regional Transit for all disruptions to bus service of Riverside Blvd and 65th Street.

Contractor shall perform the following notification procedures prior to closing a street/alley to through traffic:

1. Police Department - Provide the Police Communications Center with the street/alley closure limits and estimated duration of closure, by calling 264-5025 and faxing the information to 264-7770 one (1) working day prior to the closure.

2. Fire Department - Provide the Fire Communications Center with the street/alley closure limits and estimated duration of closure, by calling 228-3035 and faxing the this information to 228-3075 one (1) working day prior to the closure.

3. Solid Waste Division - Provide the street/alley closure limits and estimated duration of closure, by calling 808-4952 and faxing the information to 808-1494 five (5) working days prior to the street closure.

4. On Street Parking Division - Provide the street/alley closure limits and estimated duration of closure, by calling 808-5874 and faxing the information to 808-7501 five (5) working days prior to the street closure.

5. Regional Transit - Provide the street/alley closure limits and estimated duration of closure, by calling Lynn Cain at 321-5375 and faxing the information to 557-4541 five (5) working days prior to the street closure.

The information faxed to the above shall include:

Name of Project
Project Number
Contractor Name and phone number
City Inspector Name and phone number
Department of Utilities Project
Name and Limits of Street being closed
Duration of closure

A copy of the fax receipt shall be given to the project inspector.

2.07 Protection of Existing Improvements

The Contractor shall be responsible for repairing damage to existing improvements, utilities, and adjacent property in accordance with Section 13 of the City Standard Specifications.

The Contractor shall operate irrigation systems, identify existing damage, and report findings to the Engineer prior to beginning construction at each residence. The Contractor shall replace irrigation features to match pre-construction conditions. Any removed or damaged landscaping features shall be relocated or replaced to match pre-construction conditions at no additional cost to the City.

2.08 Storage of Equipment or Materials and Material Stockpiling Limits

Materials and equipment shall be stored in accordance with Section 5 of the City Standard Specifications.

Materials and equipment for the project shall be stockpiled within the current construction phase only, and shall not be stockpiled within the public street right-of-way in excess of an amount representing a ten (10) day supply at current rates of pipe laying or water service construction. Equipment and materials shall not front any single address in excess of ten (10) days unless otherwise accepted by the Engineer.

Stockpiles within the public right-of-way shall be no higher than 6 ft in height, and shall not impede traffic, nor access to residences.

Should stockpiling of materials within the public right-of-way prove to be a nuisance to the adjacent residents, the materials and/or equipment shall be moved within two (2) working days following direction by the Engineer.

2.09 Notification to Property Owners

The Contractor shall be responsible for notifying all residents adjacent to the work a minimum of five separate occasions:

- Notify seven (7) days prior to commencing any work on public streets
- Notify seven (7) days prior to commencing any work on private property
- Notify twenty-four (24) hours prior to commencing work on private property
- Notify seven (7) days prior to a water service shutdown on private property
- Notify twenty-four (24) hours prior to a water service shutdown on private property
- In the event the Contractor returns to the property for additional work, the seven (7) working day and twenty-four (24) hour notification process shall be repeated.

Notifications shall include the Contractors name, a contact person and phone number, a brief summary of the work, and the estimated duration of the work. Notifications shall be as shown in the examples presented in Appendix B.

During design, the City's engineer attempted to meet with each property owner receiving a new Hybrid Water Service to determine the location of the new service connection. The locations of new Hybrid Water Service connections are presented in Appendix D.

For properties receiving a meter box in a non-traffic location, or driveway, the Contractor shall also be responsible for marking proposed water service and meter box locations and notifying these property owners of the proposed location two days prior to placement. Where meter boxes are to be placed within a sidewalk, no additional notification is necessary.

2.10 Removal of On-Street Parking

The Contractor's operations may require the prohibition of on-street parking of vehicles along all or a portion of the length of the project for a limited period of time. In such instances, the removal of on-street vehicle parking shall be in accordance with Section 6 of the City Standard Specifications.

2.11 Dust Control

The Contractor shall be responsible for the control of dust within the limits of the project at all times in accordance with Section 16 of the City Standard Specifications.

The Contractor shall keep all streets and alleys as well as all grounds adjacent to the project site clean and free of dust, mud, and debris resulting from the Contractor's operations in accordance with Section 16 of the City Standard Specifications.

Spillage of earth, gravel, concrete, asphalt, or other materials resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor in accordance with Section 16 of the City Standard Specifications.

2.12 Phasing of Construction

The Contractor shall be required to produce and submit phasing plans for both the Little Pocket and Tahoe Park project areas that are acceptable to the Engineer prior to starting any work. Each plan shall illustrate the streets and properties impacted during each phase of construction, as well as the sequence of phases. Both plans

shall be submitted and approved a minimum of ten (10) calendar days prior to the scheduled commencement of any work by the Contractor.

The Little Pocket project area phasing plan shall limit the number of phases to no less than three (3) with each separate phase of generally equal size in regard to quantity of new services and linear footage of new distribution main placed.

The Tahoe Park project area phasing plan shall limit the number of phases to no less than four (4) with each separate phase of generally equal size in regard to quantity of new services and linear footage of new distribution main placed. All work on 14th Avenue where temporary water shall be used will be its own phase.

The Contractor shall construct the new distribution system and services in the phased manner identified in the phasing plan. All changes to the implementation of the phasing plan must be approved in writing by the engineer.

Each phase shall be completed prior to beginning construction of the next phase, and shall include fully tested and operational new water mains, completed services, final paving, and other required surface restoration, and all other items within these Special Provisions that fall within each phased area. The sole exception includes the abandonment of existing mains, hydrants, and valves.

2.13 Potholes and Excavations on Private Property

Unless otherwise approved by the Engineer, all potholes and/or excavations on private property shall be backfilled with native material on a daily basis. Sand may be substituted for native material where Meter box is to be located. Use of plates or plywood as temporary cover prior to meter box placement is not allowed.

2.14 Payment

No separate payment will be made to the Contractor for complying with the requirements of this section. The cost of such work shall be included in whatever bid item the Contractor deems appropriate.

END OF SECTION

SECTION 3. WATER CONSTRUCTION REQUIREMENTS

3.01 AWWA Standards - Water Mains

These Special Provisions contain reference to certain standards of the American Water Works Association (AWWA). Copies of these standards are available for reference at the City of Sacramento, Department of Utilities, Engineering Services Division located at 1395 35th Ave in Sacramento.

IN SUBMITTING A BID, THE CONTRACTOR CERTIFIES THAT HE/SHE IS FAMILIAR WITH FIELD HANDLING, INSTALLATION, INSPECTION, DISINFECTION, PRESSURE TESTING AND ALL OTHER REQUIREMENTS CONTAINED IN THE AWWA STANDARDS.

3.02 Opening Direction of Valves and Fire Hydrants

The opening direction of valves and fire hydrants shall be in accordance with Section 27 of the City Standard Specifications.

3.03 Trench Excavation and Backfill

Trench excavation and backfill shall conform to the construction Plans and the provisions of Section 27 of the City Standard Specifications.

3.04 Pavement Cutting and Surface Restoration

Surface cutting and restoration shall conform to the following:

Type of material to cut and restore	City Standard Specification
Asphaltic pavement restoration material	Section 22 & 27
Curb, gutter and sidewalk cutting and restoration	Section 24 & 27
Concrete pavement (Alleys and Vee gutters) cutting and restoration	Section 19 & 27

All materials shall conform to Section 10 of the City Standard Specifications.

Existing pavement to be removed shall be ground or saw cut full depth to provide a neat straight pavement break along both sides of the pipe trench. A "T" trench as shown on Standard Drawing W-701 is required. The minimum pavement section within public street right-of-way shall be four (4") inches of asphalt concrete over twelve (12") inches of Class 2 aggregate base.

The Contractor, at his/her option, may perform the pavement saw cutting operation after the pipe installation operation, just prior to pavement repair. No pavement cutting shall precede trenching by more than five calendar days except when saw cutting is used. Where the initial pavement cut is not performed by saw cutting and takes place more than one calendar day before trench excavation, the Contractor shall fill the pavement cuts with asphalt concrete patching mix and maintain a smooth riding surface until trenching begins.

Upon completion of trench backfill, existing pavement as well as any curbs, gutters, sidewalks, driveways, or other improvements that have been cut or damaged as a result of the construction activities shall be replaced. The replacement of pavement, curb, gutter or other improvements shall match that of the original as close as practical unless otherwise indicated on the Plans or in these Special Provisions. Segments of saw cut pavement which were damaged during construction shall be re-saw cut to a neat straight line.

The Contractor shall repair disturbed lawn areas by carefully and evenly cutting the lawn to preserve the sod until the trench excavated for the water service lateral or residential water service is backfilled and compacted. Any existing lawn removed during excavation shall be replaced with sod to match preconstruction conditions. The removed sod may be replaced over the backfilled trench provided the sod is in an acceptable condition for re-use as determined by the Engineer. Sod unsuitable for re-use shall be replaced with new sod to match preconstruction conditions.

All fences or shrubbery in the way of construction shall be removed and replaced. The Contractor may re-use the existing fence material provided the Engineer approves the material, prior to installation. If the Engineer does not approve the re-use of the material, the Contractor shall replace with new material. Any private property or any existing improvements damaged by the construction operations shall be replaced with new materials at no additional cost.

Masonry work damaged as a result of the construction shall be repaired by an experienced brick mason to match existing improvements. Existing bricks shall be salvaged and reused to preserve the integrity of the improvement.

Driveways consisting of exposed aggregate concrete or flat concrete shall be replaced by an experienced concrete finisher to match existing improvements.

3.05 Disinfection and Pressure Testing of Water Mains

Disinfection and pressure testing of water mains, related valves and fittings, as well as flushing of the water main, shall conform to Sections 27 of the City Standard

Specifications. All pressure and disinfection testing shall be made in the presence of the Engineer.

The Contractor shall coordinate with the City so that water used to test and disinfect the new mains is captured and recycled. The Contractor shall coordinate efforts with the City when the Contractor flushes the mains. The Contractor shall notify the Engineer three days prior to flushing water used in the testing and/or disinfection process. The captured water shall be dechlorinated by the Contractor prior to the City capturing and recycling the water. The Contractor shall dechlorinate the water by use of an apparatus that injects or mixes EPA approved chemicals with the water to neutralize the chlorine before it is released into a water truck or storm sewer systems. If the dechlorinated water is released to a storm or sewer system, it shall be hard piped to a storm or sewer manhole rather than released to the ground. The City will have up to four water trucks onsite. At no time during the flushing process will the Contractor be delayed by the lack of available City trucks. If the City isn't able to provide adequate trucking to capture the water, the Contractor shall adhere to the flushing requirements within the City Standard specifications and these Special Provisions to dispose of the water.

3.06 Distribution System Shutdowns for Water Main Installation & Connections

After successful completion of hydrostatic pressure testing and disinfection, the Contractor shall connect the new water mains to the existing water system at the locations indicated on the Plans. Connections to existing water mains shall be made in accordance with Section 27 of the City Standard Specifications.

To coordinate and schedule a water main shutdown, Contractor shall provide the Engineer with a project schedule that includes date and location for all required project shutdowns as described in "Construction Activity Time Schedule" of these Specifications. The contractor must provide the inspector updates of this schedule including the shutdown activities before 3:00 PM on the Monday that falls a minimum of 11 days before the shutdown is required. If these coordination requirements are not performed, the City cannot provide the shutdown.

The Contractor shall expose the existing water main at tie-in locations 24 hours prior to a tie-in and have all materials and equipment necessary for the connection work at the job site prior to beginning the shutdown.

The City will not conduct a shutdown until the Contractor is capable of completing the work within a 4 hour period.

Without exception, all opening and closing of the valves on existing water mains will be performed by City crews only.

Where indicated in the Plans, the Contractor shall cut existing pipe, remove existing plugs or bulkheads, clean pipe ends, prepare connections and make the new connection to existing water mains. The Contractor shall temporarily cap existing mains as necessary and as approved by the Engineer to maintain service to City customers.

Water released from cutting or opening existing mains shall be removed and disposed of by the Contractor. The excavation shall be kept dry until all necessary work within the work area has been performed.

3.07 Water Shutdowns for Residential Water Service Tie-Ins

All residential water service shutdowns shall be approved by the Engineer. Residential water service shutdowns for water service connections will be approved once complete preparation, satisfactory to the Engineer, is made to minimize the length of time for any residential water service shutdown.

The Contractor shall notify residences seven (7) days and twenty-four (24) hours in advance of any residential water service interruption. **Maximum time of interruption of water service to any residence or business shall be four (4) hours.**

3.08 Plugged Fixtures

The Contractor shall be responsible for removing all sediment that builds up at faucets, sprinklers, and clogs interior house plumbing as a result of installing and connecting residential water services.

The Contractor shall open all exterior faucets and shall attempt to have the homeowner open all interior faucets in order to help prevent fixtures from plugging.

3.09 Construction of Residential Water Services

All residential water services shall be, at a minimum, one and a half (1-1/2") inch diameter pipe per detail on Plans from the new City service to the above ground tee at the hose bib connection located in either the front/side yard or backyard per the Site Service Survey form in Appendix D.

When adequate volume is not provided to all points on the property by a hose bib connection at the front or side of the house, 1-1/2 inch Schedule 40 PVC pipe shall be installed and connected to the back half of the property. Alignment and connection point shall be at the approval of the Engineer. Materials and placement

shall meet the applicable requirements of the City Standard Specifications and these Special Provisions.

Installation and connection of residential water services shall be performed in accordance with the applicable sections of the latest revised Uniform Plumbing Code (hereinafter called UPC). No connections shall be made until installation and testing of the distribution system and water service laterals are complete. All underground work shall be inspected prior to backfilling.

An address list of residential water services can be found on the plans, in the Water Service Schedule. This list provides the Contractor with the size and location of existing residential water services. The information given on this list is historical information, and is partially complete. The City makes no guarantee as to the accuracy of this record. **It is the Contractor's responsibility to locate the existing water service laterals and curb or corporation stops for abandonment purposes.**

Proposed service hookup locations are shown on the Site Service Survey forms found in Appendix D.

Residential water services shall be placed using directional bore unless approved by the Engineer. Pipe alignment shall not pass under any dwelling or structure.

Connection to Existing Service at the Hose Bib

The Contractor shall connect to existing residential services using the appropriate adapter, bushing, reducer or other required fitting, and as shown on the Plans.

Reconnection of Existing Water Service on Property Owner's Side of the Meter Box

The Contractor shall use a flex coupling, and additional brass couplers, bushings, reducers, or other required fittings, as approved by the Engineer.

In addition to the Site Survey information, typical residential water service hookup details can be found on the Plans. Not all residential water service hookups will match the typical details. No separate payment will be made to the Contractor for hookups installed that vary from the typical details.

All work relating to placing and connecting residential water services and abandoning existing water services at each residence shall be completed within a maximum four (4) hour water shutdown period.

3.10 Connection of New Water Service Lateral to New or Existing Residential Services

Meter diameter shall match the new City-service diameter.

The Contractor shall reconnect the water service lateral to the existing water service on the property owner's side of the meter box and the valve at the meter setter shall be left in an open position, so that the residential water service is operable when this item is complete. If the residential water service is in such poor condition that the contractor cannot reconnect to the service, the Contractor shall replace a portion of the service until a suitable connection point can be found.

City Services may be placed using a directional bore or open cut trench. In the event that work occurs beyond the City right-of-way, directional bore shall be utilized unless approved by the Engineer.

An address list of properties receiving a new water service lateral from the main to the new meter box can be found on the plans, in the Water Service Schedule. This list provides the Contractor with the size and location of existing residential water services. The information given on this list is historical information, and is partially complete. The City makes no guarantee as to the accuracy of this record. **It is the Contractor's responsibility to locate the existing water service laterals and curb or corporation stops for abandonment purposes.**

Typical water service lateral connection details can be found on the Plans. Not all new water service laterals will match the typical details. No separate payment will be made to the Contractor for connections installed that vary from the typical details.

3.11 Water Meters

The definition of "meters" outside of section 3.11 shall mean the meter, register, and all other components assembled as one unit as specified in this section.

METERS AND REGISTERS

All meters and registers shall be compatible with ASCII communication protocol. All meters shall be guaranteed free from manufacturing defects in materials and workmanship and must be adaptable to field programmable registers without interruption of the customer's service.

Testing of meters for compatibility with ASCII communication protocol will be completed by the Engineer, and costs borne by the City. Meters that fail to meet the compatibility requirement shall be retested. Cost for all retests of meters will be borne by the Contractor and deducted from payment due Contractor for work performed under the terms of the contract. Any meter that is defective or not fully compatible with the ASCII communication protocol, for any reason, shall be replaced

with a compliant meter within 10 days or pay $200, per meter, in liquidated damages to compensate the City for staff time and delay.

Unless otherwise noted in these contract documents, all meters supplied for the project shall be positive displacement type meters. Two inch and smaller positive displacement meters shall have absolute encoder type registers.

All irrigation services that are 1 ½" and greater shall be turbine meters and shall have an absolute encoder type register.

Absolute Encoder Type Registers for Positive Displacement, Compound and Turbine Meters

General Description

Registers furnished under these specifications shall be the product of a manufacturer with at least ten (10) years of experience in the manufacture of absolute encoder-based registers. The registers shall have the capability of providing encoded meter information as described in the following specification. Specifications for the required cold-water meters can be found below in separate specifications. Registers provide low voltage conversions are acceptable; however, registers utilizing generator pulses are not acceptable under this standard.

Construction

Registers shall be of the absolute encoder type and permanently, hermetically sealed in a copper or stainless steel can to provide protection from moisture, high strength, and resistance to handling damage. Similar size, type and registration or registers shall be interchangeable.

All registers 1 ½" and above must be removable without disassembly of the water meter or the service line. Registers must be free of opening to protect the internal electronics of the register.

Registers shall be equipped with low flow indicators. Registers shall read in cubic feet. The register is independent of the meter. Therefore, register's Manufacture Date and Identification Number shall be printed on the face of the register. The manufacturer of the meter and register shall provide meter serial numbers with barcodes on the meter, register lid and shipping box. In addition, the contractor will supply for each shipment an electronic spreadsheet providing meter serial numbers for the City to expedite tracking and inventory purposes.

Register lenses constructed of minimum 1/4'" tempered are preferred but not required; glass domed (non-tempered) register lenses are acceptable for durability in pit installations. All other register assembly and material requirements stated herein shall also apply. Registers shall be equipped with a hinged lid to completely protect the register lens.

The absolute Encoder Register output shall be a factory-potted NICOR Hydroconn

AMR Series III in-line male connector with female metal contacts and Hydroconn AMR Series II End Cap (No Substitute). The register cable shall be Nicor's three (3) conductor cable and measure 36" long from surface of the register to the end of the connector for 5/8" through 2" meters.

Operation

Upon inquiry from a remote location, the absolute encoder register shall disclose the exact position of the six most prominent number rollers. All power necessary for data transmission shall be supplied from the interrogation device. All registers shall be fully compatible with ASCII communication protocol.

All registers shall employ a device to offer a reliable transfer of the roller bank assembly to ensure accuracy and to prevent ambiguous readings. For reliability and durability, the position of each roller shall NOT be determined by using any type of mechanical contacts which can wear out over time. Optical character recognition (OCR) is the preferred technology, but is not required, for determining roller position, as this method reads the actual position of the index odometer wheels when interrogated by a ASCII communication protocol.

Data transmission shall be instantaneous and supplied in an ASCII format without conversion or modification. Registers must operate reliably down to at least 4.5 volts.

Pin out connection: When meter side connector is viewed end-on with the molded arrow at the 12 o'clock position, the contacts occupy the 2, 6 and 10 o'clock positions.

O'clock Position	Function
2	Power/Clock
6	Ground/common/return
10	Encoder Data

Warranties

All encoded registers shall be free from defects in materials and workmanship for ten (10) years from the date of purchase.

Positive Displacement Type Meters 1" - 2"

General Description

Meters furnished under these specifications shall be the product of a manufacturer with at least ten (10) years experience in meter manufacturing for the American Market. Meters shall be new, first line quality, positive displacement type cold water service. Meters must be of the oscillating piston or nutating disc type. Multi-jet and

Single-jet meters are not acceptable under this specification. Meters shall comply with AWWA Standard C700 latest revision and the minimum specification herein. Any low lead bronze shall not have less that 85% copper content. In addition, meter manufactures will meet all guidelines established by California Bill AB1953 and ANSI/NFS Standard 61 Annex F and Annex G requirements. They shall be designed for use with potable water below 80 degrees F.

Type
Cold water service meter for measuring potable water in residential services, positive displacement meters only, sealed register.

Cases: 1"
All meters 5/8" through 1" shall have an NSF approved, low lead bronze outer main case body with a separate, removable measuring element. The low lead bronze case shall not have less that 85% copper content. The meter case casting shall have raised characters denoting the meter size and the direction of water flow. The casting shall be permanently marked with the serial number of the meter in a manner so that the number is easily read from above. All bottom plates shall be isolated from the potable water by a full rubber liner. Meters shall be provided with bronze bottom plate and held in place with stainless steel bolts with integral washer heads. Cases must be capable of withstanding working pressures of one hundred fifty (150) psi. Thread protectors shall be supplied for the connection ends.

Length
Meters must conform to AWWA C700 standard as most recently revised.

Main cases: 1 ½" through 2"
All meters 1 ½" through 2" shall have a body main case made of high quality copper alloy, with a separate, removable measuring element. The meter casting shall have raised characters denoting the size meter and the direction of water flow. The casting shall be permanently marked with the serial number of the meter in a manner so that the number is easily read from above. Meters shall be of the split case design.

Laying Length
Meters must conform to AWWA C700 standard as most recently revised. The laying length of PD meter and/or strainer assembly shall be as follows:

Meter Size	Meter
1 ½"	13" Max
2"	17" Max

Register Housings
Register housing shall be constructed of an engineered polymer and provide full protection of the register assembly. Registers shall comply with AWWA C700

section 4.1.3 performance requirements in the latest revision. Register assemblies shall be secured to the main case in a tamper resistant fashion to prohibit unauthorized removal. Seal screws, tamper-resistant plugs, tamperproof screws, or locked devices are acceptable.

Measuring Chambers

The measuring chamber shall be of the two-piece oscillating piston or nutating disc design. No inferential-type meters will be allowed. Chambers shall be manufactured from an engineered polymer. Chambers shall be separate from the outer casing and so secured in the main case that the accuracy of the meter will not be affected by any distortion of the case. All wear prone surfaces shall be reinforced with a nylon material. All measuring chamber assemblies shall operate smoothly and be capable of sustaining long-term accuracy.

All motion from the piston shall be transferred to the register via magnetic drive. Piston oscillations or disc nutations must not exceed the figure recommended in Table one (1) of AWWA Standards C-700 latest version for the size of the meter being bid.

Registration Accuracy

All meters shall meet or exceed the following flow requirements:

Size	Low Flow GMP @ 95%	Normal Flow GMP 98.5% - 101.5%	Continuous Flow GPM
1"	3/4	3-50	25
1 1/2"	1 1/2	5-100	50
2"	2	8-160	80

Magnetic Coupling

The piston oscillations will be transferred to the sealed register through the use of a magnetic coupling. Meters with stuffing boxes, spindles and packing glands will not be acceptable.

Headloss

Meters shall conform to AWWA C-700 specifications as currently revised.

Pressure Capability

Meters shall operate up to a working pressure of 150 psi without damage or leakage. Accuracy shall not be affected by pressure variation up to 150 psi.

Strainers

All meters shall be provided with a strainer screen installed in the meter. Strainer screens shall be rigid, fit securely, be easy to remove and have an effective straining area at least two times that of the main case inlet.

Warranties

Meters shall be warranted by the manufacturer to meet AWWA **new meter accuracy** standards according to the following time periods and registered usage amounts, whichever occurs first:

Size Meter	Years Guaranteed	Registered Usage
1" C700	5 years from date of shipment	1,100,000 US Gallons
1 ½" C700	5 years from date of shipment	1,600,000 US Gallons
2" C700	5 years from date of shipment	2,100,000 US Gallons

Turbine Type Meters 1 ½" through 4"

General Description

Meters furnished under these specifications shall be the product of a manufacturer with at least ten (10) years experience in meter manufacturing for the American Market. Meters shall be new, first line quality, turbine type for cold-water service. Meter sizes shall be inclusive and shall comply with the Class II AWWA Standard C701 latest revision and the minimum specification herein. Any low lead bronze shall not have less that 85% copper content. In addition, meter manufactures will meet all guidelines established by California Bill AB1953 and ANSI/NFS Standard 61 Annex F and Annex G requirements. They shall be designed for use with potable water below 80 degrees F

Registration Accuracy

All Turbine Type Meters shall meet or exceed the AWWA latest standard, as follows:

Size	Low Flow GMP @ 95%	Normal Flow GMP 98.5% - 101.5%	Minimum Intermittent Flow GPM
1 1/2"	3	4-160	200
2"	3	4-200	250
3"	4	8-450	550
4"	7	15-1000	1200

Main Cases

The body main case shall be of bronze composition of a high tensile strength or epoxy coated ductile iron on 1 ½" – 4" sizes and be capable of resisting distortion under pressure up to one hundred and fifty (150) psi. All meters shall have the size and direction of flow indicated on the case and shall be designed for easy removal of all interior parts without disturbing the connections to the pipeline.

Register Housings

The register housing shall be constructed of an engineered polymer and provide full protection of the register assembly. Register assemblies shall be secured to the

main case in a tamper resistant fashion to prohibit unauthorized removal. Seal screws, tamperproof screws, or other locking devices are also acceptable.

Measuring Chambers
The measuring elements or chamber for all meters shall be of engineered polymer and shall be separate from the case and easily detached and removed there from.

Rotor spindles shall be of tungsten carbide, stainless steel or titanium alloy supported by radial bearings made of PTFE graphite compounds, synthetic sapphire, or sapphire/ceramic jewel..

Laying Length
The laying length of Turbine meters and/or strainer assembly shall be as follows:

Meter Size	Meter/Meter & Strainer	Strainer	* Test Plug
1 1/2"	13"	7" Max	1" NPT
2"	17"	7" Max	1 ½ " NPT
3"	12"	7" Max	2" NPT
4"	14"	9" Max	2" NPT

*Spool pieces with a test port are acceptable

Rotors
The measuring impellers, vanes or rotors for all meters shall be polypropylene, nylon, hard rubber or engineered polymers and shall be mounted on a horizontal axis in the center of the measuring element with rotations of the turbine transmitted to the register by means of magnets. Straightening vanes of corrosion resistant material as required shall precede the rotor.

Strainers
Integrally-cast stainless steel plate type strainers are required on sizes 1 ½" through 4" turbine meters. Strainers shall be rigid, easily removable, and have an effective straining area at least double that of the meter main case inlet. External strainer connections shall conform to the main case and shall be accompanies by gaskets, bolts and nuts.

Warranties
At a minimum, all meters shall carry the following published warranties; Meters shall be guaranteed to be free from defects in materials and workmanship for a period of 24 months after installation and to meet AWWA C-701 Accuracy Standards for two (2) years from date of shipment.

3.12 Contractor Receipt of City Supplied Material

The City will supply all lid locks to be installed on the meter box lids and all meters three inch and larger. The Contractor shall pick up materials at the City's Corporation Yard Located at 5730 24th Street. The Contractor shall be responsible for scheduling pick-up, receiving and transporting these items from the City of Sacramento Corporation Yard. All materials, once received, shall become the responsibility of the Contractor. Replacement of lost or damaged material shall be at the Contractors expense.

The Contractor shall submit a request for parts to the Engineer. The Contractor shall coordinate with the Engineer on an appropriate time schedule and quantity of materials. The Parts Warehouse will have the parts available for pickup within five business days of receiving the request from the Engineer. The contractor shall schedule operations so that the number of occasions where these materials are picked up is kept to a maximum of six (6) for the entire project. For exceptions, the Contractor shall coordinate with the Engineer.

Upon completion of the project, any unused City supplied materials shall be returned to the City's Corporation Yard located at 5730 24th Street. All equipment shall be like new condition to the satisfaction of the Engineer. The cost of damaged or unreturned material will be charged against the Contractor's retention at closeout. The Contractor shall coordinate with the Engineer on an appropriate time schedule for returning unused parts.

3.13 Placement of Meter Boxes

Properties with an existing sidewalk shall have the meter box placed in the sidewalk. Those without an existing sidewalk shall have the meter box placed in the non-traffic area behind the curb.

Meter box and meter setter shall be installed to match vertical slope of surrounding conditions to a maximum vertical angle of 45 degrees. Should field conditions exceed this maximum angle the Contractor shall place the meter box and meter setter in an Engineer approved manner.

Excavation for meter boxes shall be a minimum of eight inches (8") around all sides of the box to allow for proper compaction of the backfill and surface restoration around the box unless otherwise determined in the field by the Engineer.

When removing sidewalk for the purpose of placing a meter box, an entire single flag of concrete (54-inch by 54-inch, or 20.25 sq ft, typ) shall be saw cut, removed and replaced. The Contractor shall attempt to place the meter box such that only one flag of concrete need be removed without causing damage to the existing curb and gutter. Should the Contractor determine that the meter box location should fall on a

joint between two flags of concrete, for reasons acceptable to the Engineer; both flags shall be removed and replaced.

Unless directed to by the Engineer, meter boxes are not to be placed within driveways. Surface restoration shall be as specified elsewhere in the Special Provisions.

The location of the new meter box is dependent upon the type of installation per the Schedule of New Water Services found in the Plans.

3.14 Meter Boxes and Lids

Meter Boxes and lids shall be constructed of materials in accordance with the appropriate sections of ANSI/SCTE and shall be tested per the appropriate ASTM sections.

The meter box lids shall provide a slip resistant surface with a coefficient of friction greater than 0.5. Materials shall be resistant to chemicals, sunlight exposure, water absorption, and flammability.

All meter box lids shall sit flush with the rim of the meter box body and shall be seated no more than 1/16-inch into the body of the meter box. The lid shall not protrude above the rim of the Meter Box body.

For 1-inch services the nominal meter box size shall be 13"W x 24"L x 12"D. For 1 ½-inch and 2-inch services the nominal size shall be 17"W x 30"L x 12"D.

For sidewalk and driveway meter boxes and lids, the lids shall have a 1 ¾" diameter hole with a 3" diameter, ½" deep recessed area centered over the 1 ¾" diameter hole to accommodate an automated meter reading endpoint and lid lock. Thickness of the lid shall not exceed 1" at recessed area to accommodate an automated meter reading endpoint.

For concrete meter boxes and lids, the lids shall have a 2" diameter hole with a 3" diameter, ½" deep recessed area centered over the 2" diameter hole. Thickness of the lid shall not exceed 1" at recessed area to accommodate an automated meter reading endpoint.

For H20 lids, the lids shall have a 1 ¾" diameter hole with a 3" diameter, ½" deep recessed area centered over the 1 ¾" diameter hole.

Contractor shall install City supplied lid locks on the meter box lids. No lids shall have a reading lid.

The meter boxes and lids shall be fabricated by the same Manufacturer. The manufacturer shall submit documentation showing compliance with material strength and proof of design testing.

Sidewalk and Driveway Meter Boxes and Lids

Meter boxes and lids shall be constructed of a polymer concrete material with fiber reinforced plastic or a bulk moulding compound. All meter box and lids shall be identical in composition and have a matching "concrete gray" appearance. Meter boxes and lids shall meet all test provisions of the latest edition of the ANSI/SCTE 77 Tier 15 application or ASTM-C857: Load Category A-16.

The lids shall be marked "WATER", with a nominal lettering height of 1-inch and shall be indented into the surface of the lid to resist wear. To facilitate removal, the lid shall include two ½" x 2 ⅝" - 4" (2 ⅝" minimum length, and not to exceed 4" in length) pockets with integrated lifting bar to accommodate a standard manhole hook. No lids shall have a reading lid.

Landscape Meter Boxes and Lids

Meter boxes and lids shall be constructed of a concrete or a polymer concrete material with fiber reinforced plastic material.

Meter boxes constructed of a polymer concrete material with fiber reinforced plastic material shall meet all test provisions of the latest edition of the ANSI/SCTE 77 Tier 8 application.

Concrete meter boxes and lids shall have a compressive strength at yield of 3000 psi when tested per ASTM C-39: Load Category A-0.3.

Lids shall be "concrete gray" in appearance. To facilitate removal, the lid shall include two ½" x 2 ⅝"- 4" (2 ⅝" minimum length, and not to exceed 4" in length) pockets with integrated lifting bar to accommodate a standard manhole hook. No lids shall have a reading lid. The lids shall be marked "WATER", with a nominal lettering height of 1-inch and shall be indented into the surface of the lid to resist wear. To facilitate removal, the Lid shall include a 1/2" x 2-5/8" pocket with integrated lifting bar to accommodate a standard manhole hook.

Alley, Traffic or Unimproved Street Location Meter Boxes and Lids

Meter boxes shall be constructed of an H20 traffic rated (per AASHTO-H20 load test) concrete material and shall meet the Cal Trans No. 5T or 6T State Specification. Lids shall be H20 rated.

The lid shall be "locked" into the meter box body with a 300 series 3/8"-16 stainless steel button head with pin in hex bolt with washer. The hex shall be 7/32" hex with pin. Each Lid shall have the term "PROPERTY OF CITY OF SACRAMENTO" welded onto the top. The letters shall be 1" in height.

Meter Boxes for 3" and Larger Meters
For 3-inch through 6-inch services the nominal meter box size shall be 30"W x 48"L x 12"-18"D. For 8-inch services the nominal meter box size shall be 30"W x 60"L x 12"-18"D. Meter boxes for 3" and larger meters shall meet the applicable specifications above for the specific application of the meter box.

3.15 Contractor Source Documents for Monthly Billing

The City shall provide the contractor with an electronic spreadsheet to maintain. The following information will be already populated by the City:

Contractor Source Document (to be used for monthly billings)

- Physical address (street number and name)
- Assessor's Parcel Number (APN)

The contractor shall record the following on the electronic spreadsheet:

- Meter number/serial number (via Barcode only, no manual input)
- Meter manufacturer
- Meter location
- Meter size
- Service size and material type
- Bid items completed
- Extra concrete quantity
- Additional comments depicting unusual situations
- Date Paid
- Add/Delete
- Total Concrete (SF)

Note: Meter serial number shall not be manually populated into the electronic spreadsheet. A barcode reader shall be used.

The Contractor is expected to correct any misinformation on the electronic spreadsheet, e.g. addresses.

An example of the spreadsheet can be found in the Appendix. The Contractor shall submit the spreadsheet electronically and provide a hard copy of the spreadsheet at the time each monthly billing is generated and no later than the 20th of each month. The Contractor shall also submit a weekly update on 11"x17" sized paper.

3.16 De-watering

A determination of groundwater level has not been made for this project. The Contractor shall be responsible for the control, removal, and disposal of any groundwater in accordance with Section 27 of the City Standard Specifications.

3.17 Tree Preservation Requirements

Trees within the project area shall be protected by the following means:

1. The contractor shall hire an International Society of Arboriculture (ISA) certified arborist to do any required pruning for equipment clearance. The contractor shall contact the City Arborist (Dan Pskowski, 768-8604) for a root inspection(s) for trenching activities within the dripline(s) of the trees.

2. If during excavation for the project, tree roots greater than two inches in diameter are encountered, work shall stop immediately until the project arborist can perform an on-site inspection. All roots shall be cut clean and the tree affected may require supplemental irrigation/fertilization and pruning as a result of the root cutting. The project sponsor will be responsible for any costs incurred. Depending upon the amount of roots encountered and the time of year, wet burlap may be required along the sides of the trench.

3. The contractor shall be held liable for any damage to existing trees, i.e. trunk wounds, broken limbs, pouring of any deleterious materials, or concrete washout under the dripline of the trees. Damages will be assessed using the A Guide to Plant Appraisal eighth edition, published by the International Society of Arboriculture. An appraisal report shall be submitted for review by the City Arborist.

4. Tree protection methods noted above shall be identified on all construction plans for the project.

3.18 Cultural Resources

Observation will be employed by the Contractor and the Engineer during this project to ensure that any cultural resources identified during the project are treated in accordance with the guidelines set forth in CEQA.

Construction activities will be monitored nearing depths of native soil.

Trenches will be monitored for any cultural indicators such as changes in soil color, composition, or texture; human bone; artifacts; and structural remains and features.

3.19 Payment

No separate payment will be made to the Contractor for complying with the requirements of this section. The cost of such work shall be included in whatever bid item the Contractor deems appropriate.

END OF SECTION

SECTION 4. ITEMS OF THE PROPOSAL

Item No. 1 Construction Photographs or Video (Note: The bid amount for "Construction Photographs or Video" shall be one percent or less of the total base bid)

This item shall consist of providing pre-construction and post-construction photographs or video of all work. Photographs or video shall meet the requirements of Section 11 of the City Standard Specifications, except as modified herein or as directed by the Engineer.

Photographs or video of all existing conditions within the limits of construction shall be taken. The addresses of the properties affected by construction shall be clearly identified on each photograph or in the video. Pre-construction photographs or video shall be accepted by the City prior to the start of construction. Photographs or video shall include all pavement and landscaping features within the construction area. The Contractor shall submit as many photographs or as much video as necessary to clearly depict the condition of the existing pavement and landscaping features within the limits of construction. Special emphasis shall be placed on existing pavement, structures, flowerbeds, trees, or any other improvements in close proximity to the construction area. Upon completion of work at each affected property, the Contractor shall have post-construction photographs or video taken at the same locations and from the same perspective that the pre-construction photos or video were taken. All photographs or video shall be taken with a digital still camera or video recorder and provided to the City on a DVD.

Each DVD shall be formatted as follows: For digital photographs stored on a DVD, a folder shall be established for each street in the project. Each street folder shall contain folders titled for each address that a meter retrofit has been performed. Videos shall be stored on DVD's utilizing the following format: Each street within the project shall be stored as a chapter name. Video taken at each address on a particular street shall be stored in the chapter entitled for that street. When submitting pre or post construction photographs or video, the Contractor shall provide a table of contents indentifying each DVD submitted and the chapter content therein.

Contractor shall be paid half of the lump sum price upon approval of the pre-construction photos, and the remaining amount upon acceptance and approval of the post-construction photographs.

Payment for construction photographs shall be at the contract lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, required processing, and equipment, and for performing all work necessary to complete this item

in accordance with the City Standard Specifications, these Special Provisions, and as directed by the Engineer.

Item No. 2 Mobilization (Note: The bid amount for "Mobilization" shall be three percent or less of the total base bid)

This item shall consist of preparatory work and operations, including, but not limited to, those items necessary for bonding, insurance, movement of personnel, equipment, supplies, and incidentals to the project site(s), and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items.

Payment and contract amount for "Mobilization" shall conform to Section 11 - Mobilization of the State Standard Specifications. The contract lump sum price paid for mobilization shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in mobilization and shall not exceed three (3) percent of the total base bid.

Item No. 3A 6-Inch Diameter Water Main to Furnish and Install
Item No. 3B 8-Inch Diameter Water Main to Furnish and Install
Item No. 3C 12-Inch Diameter Water Main to Furnish and Install

This item shall consist of furnishing and placing water main pipe, fire hydrant leads, elbows and fittings at the locations, to the alignments and to the details shown on the Plans.

This item shall also include furnishing and installing elbows to change the horizontal and vertical alignment of the proposed water main to avoid conflicts with existing underground utilities or to maintain proper depth of bury through vertical curves.

The water main pipe material shall be ductile iron pipe or polyvinyl chloride (PVC), except for 12-inch piping, which shall be ductile iron pipe (DIP), only. Materials and placement shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

There will be sections of pipe called out on the Plans for "SPECIAL PIPE", and either Ductile Iron or PVC Class 200 DR 14 (instead of Class 150 DR 18) shall be required for 6" and 8" pipe. Ductile Iron pipe placed per "SPECIAL PIPE" shall be paid under item 4A or 4B. PVC Class 200 DR 14 shall be paid under this item.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item. The Contractor shall restore surfaces in kind unless otherwise specified on the Plans or in these Special Provisions. Pavement cutting and restoration shall conform to the provisions of the City Standard

Specifications and these Special Provisions. Striping and speed bump replacement, concrete, landscaping, asphaltic concrete, or any other material replacement encountered, shall be included in this item.

Payment shall be at the contract unit price bid per linear foot of water main furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 4A **Ductile Iron Pipe Only, 6-Inch Diameter Water Main to Furnish and Install**
Item No. 4B **Ductile Iron Pipe Only, 8-Inch Diameter Water Main to Furnish and Install**

This item shall consist of furnishing and placing water main pipe, fire hydrant leads, valves, elbows and fittings at the locations shown **designated as Ductile Iron Pipe Only on the Plans – specifically all piping in the Little Pocket Area**, to the alignments and to the details shown on the Plans.

This item shall also include furnishing and installing elbows to change the horizontal and vertical alignment of the proposed water main to avoid conflicts with existing underground utilities or to maintain proper depth of bury through vertical curves.

The water main pipe material shall be ductile iron pipe only. Materials and placement shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item. The Contractor shall restore surfaces in kind unless otherwise specified on the Plans or in these Special Provisions. Pavement cutting and restoration shall conform to the provisions of the City Standard Specifications and these Special Provisions. Striping and speed bump replacement, concrete, landscaping, asphaltic concrete, or any other material replacement encountered, shall be included in this item.

Payment shall be at the contract unit price bid per linear foot of water main furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 5A **6-Inch Diameter Gate Valve to Furnish and Install**
Item No. 5B **8-Inch Diameter Gate Valve to Furnish and Install**
Item No. 5C **12-Inch Diameter Gate Valve to Furnish and Install**

This item shall consist of furnishing and installing gate valves, including gate valve boxes, at the locations indicated on the Plans and in conformance with the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these

Special Provisions. This item shall also include furnishing and installing gate valves on the standard hydrant lead.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the contract unit price bid for each gate valve furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 6 <u>2-Inch Diameter Blow-off to Furnish and Install</u>

This item shall consist of furnishing and installing a two inch (2") blow-off at the locations indicated on the Plans and shall be installed in accordance with Standard Drawing W-201 and Sections 10, 27, and 38 of the City Standard Specifications and as detailed in the Plans.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the contract unit price for each 2-inch blow-off valve furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 7 <u>Standard Fire Hydrant to Furnish and Install</u>

This item shall consist of furnishing and installing a standard fire hydrant at the locations indicated on the Plans. The standard fire hydrant shall be installed in accordance with Standard Drawing W-201 and Sections 10, 27, and 38 of the City Standard Specifications.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

The fire hydrant lead and valve shall be paid for under separate items.

Payment shall be at the contract unit price bid for each standard fire hydrant furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 8 <u>Existing Fire Hydrant to Remove</u>

The Contractor shall remove existing fire hydrants in their entirety including, but not limited to, the existing fire hydrant gate valve, stand pipe, gate valve box and lid, and abandon fire hydrant leads in place where indicated on the Plans. The Contractor shall abandon fire hydrant leads by plugging the end with two feet (2') of Class "C" or Class "D" Portland cement concrete meeting the applicable requirements of the Standard Specifications. The Contractor shall deliver hydrants to the Corporation Yard, 5730 24th Street, Bldg. 9. All pipe removed shall become the property of the Contractor and shall be disposed of away from the project site.

Work on this item shall not begin until all new water systems are connected and operable and old water mains are capped and/or abandoned as indicated on the Plans.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the contract unit price bid for each standard fire hydrant removed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 9 <u>2-inch and Smaller Substandard Water Service to Replace</u>

Substandard water services encountered during construction shall be removed and replaced in accordance with Sections 10, 27, and 38 of the Standard Specifications.

A 2-inch and smaller water service shall be considered substandard if not made of copper tubing.

This item shall consist of furnishing and installing all required water service piping and all other items to place and connect water services as shown on the detail in the Plans from the water main to the point of service at the property. Water service pipe for a 2-inch and smaller water service shall be in accordance with Section 10, 27 and 38 of the Standard Specifications. The service piping placed shall match existing size unless smaller than 1-inch diameter, in which case a 1-inch diameter service shall be placed. The new pipe shall be placed from the existing curb stop to the existing corporation stop or gate valve. If the existing curb stop and box is located behind the sidewalk, the Contractor shall replace the service pipe back to the existing curb stop. If the curb stop is located under a concrete surface, the Contractor may tunnel no more than three feet under the concrete to connect to the existing curb stop. If tunneling is used, the Contractor shall use a CDF material to backfill the area. The service must be embedded in six inches of sand prior to placing CDF. If existing corporation stop or gate valve cannot be reused through no fault of the Contractor, the work associated with installing a new corporation stop or gate valve will be considered extra work and paid per Section 8 of the Standard Specifications.

If the Contractor finds a substandard service, the Contactor shall notify the Engineer and shall cover the excavation with temporary plates until the Engineer has made an inspection.

The Contractor shall reconnect the existing water service on the property owner's side of the meter box so the residential water system is operable when this item is complete. (The installation of the meter box shall be paid for under a separate item.)

Maximum time for shutdown of any water service to any residence or business shall be four (4) hours.

The removed material shall become the property of the Contractor and he will dispose of at their discretion.

The exact number and location of substandard water services to replace shall be determined in the field. The quantity of substandard water services to be replaced shown on the Proposal is for bidding purposes only. The unit price indicated for substandard services to be replaced will not be adjusted because the actual number of required substandard services varies from the quantity shown in the Proposal.

This item shall include the cost of saw cutting and repairing or replacing existing street, alley, curb, gutter or sidewalk, providing any new sod, shrubbery, fencing, and repair or replacement of other existing improvements on private property that may be damaged as a result of the installation of the water services.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the unit price bid per each substandard water service replaced and shall include full compensation for furnishing all labor, material, tools, equipment and incidentals and for doing all work involved in replacing substandard water services as specified in these Special Provisions and as directed by the Engineer.

Item No. 10A 1-Inch Water Service w/meter box to Furnish and Install (main to meter box or main to beyond existing curb stop)
Item No. 10B 2-Inch Water Service w/meter box to Furnish and Install (main to meter box)

These items shall consist of furnishing and installing water services from the water main to the point of service at the property. Each water service shall include furnishing and placing a saddle, corporation stop, meter box, meter lid, meter setter (for 1" service only), meter and all required lateral pipe, and all other items to place and connect water services as shown on the Plans. The water services and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

All USA markings identifying water features will be verified by the Contractor. All costs associated with this work including all re-work if the USA markings are found to be incorrect shall be included in this item.

Information regarding existing service location shall be supplied to the City ten (10) working days prior to placing the saddle and/or constructing the service.

The Contractor shall reconnect to either the existing water service on the property owner's side of the meter box to the meter-setter or the existing front yard curb stop as shown on the Plans so that the customer's water service is in service when this item is complete. Note that for reconnections to the existing front yard curb stop, the new water main is replacing an existing water main located in the property owner's front yard; to reconnect the service, the new connection must reconnect to the customer's service up to 10 feet beyond the existing curb stop located on the property owner's side of the existing water main in the front yard.

If the residential water service is in such poor condition that the contractor cannot reconnect to the service, the Contractor shall replace a portion of the service until a suitable connection point can be found. This item shall include replacing up to 5 feet of the customer's service. Addition footage shall be paid under a separate item.

When the existing main servicing the home is in the street Right-of-Way and the existing water service is located at the back of the sidewalk or curb, the Contractor shall place the new meter box adjacent to the existing water service curb stop so that the new service can easily be transferred to the existing service.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing curb, gutter, sidewalk, driveway, alley or street surface, provide new sod, shrubbery, fencing, and repair or replacement of existing improvements on private property that may be damaged as a result of the installation of the water service retrofit. Additional concrete beyond 20.25 sq. ft. per each retrofit location, as directed by the Engineer, shall be paid under a separate bid item. The removal and replacement of on-site concrete patios and walkways, driveways, and sidewalks in order to construct this item, shall be paid for under a separate item.

The quantity of water services shown on the plans are for bidding purposes only. The unit price indicated will not be adjusted because the actual number of water services placed may vary from the quantity show on the plans.

For residential services with existing meters, contractor shall transfer existing water meter to new meter box.

Payment shall be at the contract unit bid price for each water service and shall include full compensation for furnishing and installing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 11A **Hybrid Water Service w/meter box (main to front/side of property), to Furnish and Install**

Item No. 11B **Hybrid Water Service w/meter box (main to rear of property), to Furnish and Install**

Item No. 11C **1-1/2" Water Service w/meter box (main to front or rear of property), to Furnish and Install**

Item No. 11D **2" Water Service w/meter box (main to front or rear of property), to Furnish and Install**

These items shall consist of furnishing and installing water services from the water main to the property hose bib or other identified point located at the front, side or rear of the house per the Site Service Survey forms in Appendices E and F or as shown on the plans.

Each water service shall include furnishing and placing a saddle, corporation stop, meter box, meter lid, meter setter (for 1" service only), meters and all required lateral pipe, preparing the hose bib for hook-up in accordance with the UPC and all other items to place and connect water services as shown on the Plans. The water services and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

When contractor is connecting to existing service at the hose bib, the Contractor shall furnish and install pipe, shut off valves, union, and fittings where none previously existed, or existing material is galvanized, or existing is not in a working condition, as determined by the Engineer.

The quantity of water services to install and connect from the main to the hose bib as shown on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual number varies from the quantity shown on the Bid Sheet.

This item shall include the pipe as shown on the Site Service Survey forms in Appendices E and F from the main to the hose bib or other identified point where connecting to the front, side or of the structure. If the house connection point changes, additional pipe footage shall be paid under a separate item.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing curb, gutter, sidewalk, driveway, alley or street surface, provide new sod, shrubbery, fencing, and repair or replacement

of existing improvements on private property that may be damaged as a result of the installation of the water service retrofit. This Item shall include 20.25 sq. ft. concrete removal/replacement per each retrofit location plus any additional concrete removal/replacement shown in the Site Service Survey forms in Appendices E and F. Additional concrete removal/replacement beyond this amount, as directed by the Engineer, shall be paid under a separate bid item.

Payment shall be at the contract unit price bid for each water service installed and connected from the main to connection point identified on the Site Service Survey forms in Appendices E and F and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 12A **Meter Retrofit of 1-inch and smaller Water Services**
Item No. 12B **Meter Retrofit of 1-1/2 to 2-inch Water Services**
Item No. 12C **Meter Retrofit of 3 and 4-inch Water Services**

This item shall consist of furnishing and installing 1, 2, 3 or 4-inch meters, curb stops, meter boxes and lids on existing residential and commercial water services in accordance with Section 10, 27 and 38 of the Standard Specifications and the applicable details as shown in the Plans. All meter retrofits shall be installed in accordance with the installation methods outlined in American Water Works Association Standards M6 - Manual of Water Supply Practices (AWWA), the UPC, and Detail Drawings located in the Plans.

Service Size	Technical Dwg.
• 1" service to retrofit with meter	W-402R or W-402RB
• 1-1/2" or 2" service to retrofit with meter	W507R or W-507RB
• 3" or 4" service to retrofit with meter	W-515

Meters to be installed shall be the same size as the service except for 1" meters shall be installed on ¾" services. 4-inch meters shall be installed on 4-inch water services. The Contractor is responsible for supplying all fittings and any additional pipe necessary to complete the meter retrofit installation and shall adjust pipe diameter, pipe material, and horizontal or vertical alignments.

It shall be the Contractor's responsibility to locate the existing water service laterals curb or corporation stops. All USA markings identifying water features will be verified by the Contractor. All cost associated with this work including all re-work if the USA markings are found to be incorrect shall be included in this item. The City will provide a list of addresses of properties that need to be retrofitted and any service location records that exist. The service location records are provided as a reference only and in no way does

City guarantee the accuracy of the records. This information is located in the Water Service Schedule in the Plans.

Contractor shall be responsible for furnishing and installing pipe, meters, fittings, meter valves (straight and angled), meter setters, meter boxes, lids, and all other materials required to complete the installation of the service retrofit.

If a backflow prevention assembly is found at any of the listed retrofit addresses in the field, the Contractor shall contact the Engineer for direction on replacement, removal, or other required action.

The quantity of meter retrofits shown on the bid proposal is for bidding purposes only. The unit price indicated for meter retrofits will not be adjusted because the actual number of required meter retrofits varies from the quantity shown on the bid proposal.

Water main shut downs to turn off the service during the meter retrofit of a water service will not be allowed. The Contractor shall be responsible for shutting off the service during the meter retrofit of the water service by crimping the service or utilizing other AWWA approved method.

The Contractor shall reconnect the existing water service on the property owner's side of the meter box so that the existing water service is operable when this item is complete. If the existing water service is in such poor condition that the contractor cannot reconnect to the service, the Contractor shall replace a portion of the service until a suitable connection point can be found. This item shall include replacing up to 5 feet of the customer's service. Additional footage shall be paid under a separate item.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing sidewalk, driveway, alley or street surface, up to 54"x 54" (20.25 sq ft.), provide new sod, shrubbery, fencing, and repair or replacement of existing improvements on private property that may be damaged as a result of the installation of the meter service retrofit. Additional surface restoration beyond 20.25 sq. ft. per each retrofit location, as directed by the Engineer, shall be paid under a separate bid item.

Payment shall be at the unit price bid per each retrofit and shall include full compensation for furnishing all labor, material except as furnished by the City, tools, equipment and incidentals and for doing all work involved with the installation of 2-inch and smaller service retrofits as specified in these Special Provisions and as directed by the Engineer.

Item No. 13A **Additional 1 ½-inch Water Pipe to Furnish and Install**
Item No. 13B **Additional 2-inch Water Pipe to Furnish and Install**

This item shall consist of furnishing and installing residential or commercial water pipe where field conditions require service lengths in excess of limits identified in previous bid items. Water service pipe and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

The quantity of residential water pipe to furnish and install as shown on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual number varies from the quantity shown on the Bid Sheet.

Payment shall be at the contract unit price bid per lineal foot of water service furnished and installed that is in excess of the prescribed limits and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 14 **Up to 2-Inch Water Service to existing Meter Box to Furnish and Install (main to meter box)**

These items shall consist of furnishing and installing water services from the water main to the existing meter box at the property. Each water service shall include furnishing and placing a saddle, corporation stop, and all required lateral pipe, and all other items to place and connect water services as shown on the Plans. The water services and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

All USA markings identifying water features will be verified by the Contractor. Information regarding existing service location shall be supplied to the City ten (10) working days prior to placing the saddle and/or constructing the service.

The Contractor shall reconnect to the City side of the existing meter as shown on the Plans so that the customer's water service is in service when this item is complete.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing curb, gutter, sidewalk, driveway, alley or street surface, provide new sod, shrubbery, fencing, and repair or replacement

of existing improvements on private property that may be damaged as a result of the installation of the water service retrofit.

The quantity of water services shown on the plans are for bidding purposes only. The unit price indicated will not be adjusted because the actual number of water services placed may vary from the quantity show on the plans.

Payment shall be at the contract unit bid price for each water service and shall include full compensation for furnishing and installing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 15 <u>Connection to Existing Water Distribution System</u>

This item shall consist of connecting the new water main to the existing water distribution main at the locations indicated, to the details shown on the Plans and in accordance with Section 27 of the City Standard Specifications.

Connections made between different phases of the work outlined in these contract specifications shall not be considered an "existing connection".

The Contractor shall pothole tie-in locations to locate existing water mains.

The Contractor shall furnish and install fittings, restraints and pipe necessary to connect mains. When cutting into an existing main, up to 15 feet of new pipe may be required for each tie-in. The Contractor shall use 45 degree (maximum) elbows to match existing pipe elevations, which shall be installed in accordance with Standard Drawing W-103 of the City Standard Specifications

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the contract unit bid price for each connection to the existing water distribution system and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 16 <u>Water Service, to Abandon</u>

The Contractor shall abandon water services where alley or backyard easement mains provide water to the home, once the home has been connected to the new water service and is operable.

The Contractor shall turn off the corporation stop and cut and abandon service at the corporation stop and hose bib prior to making the new water service connection. If there

are hose bibs off the service, the Contractor shall cut and cap the service on the far side of the hose bib so that the hose bibs remain operable. If the Contractor is unable to locate either the curb or corporation stops, he shall use an Engineer approved alternate construction method to abandon the existing water service.

The existing house shut off valve shall be removed and the above ground tee shall be plugged. The Contractor shall remove the riser.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item unless otherwise specified. Concrete removal and replacement required to complete this item in place shall be paid for under separate bid items.

The quantity of alley or backyard easement services to abandon on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual number varies from the quantity shown on the Bid Sheet.

Payment shall be at the contract unit price bid for each water service abandoned and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 17 <u>1 ½-Inch Schedule 40 PVC Pipe, to Furnish and Install</u>

When adequate volume is not provided to all points on the property by a hose bib connection at the front of the house, 1 ½-inch Schedule 40 PVC pipe shall be furnished and installed and connected to the back half of the property. Alignment and connection point shall be at the approval of the Engineer. Materials and placement shall meet the applicable requirements of the City Standard Specifications and these Special Provisions.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item unless otherwise specified. Asphalt concrete and concrete removal and replacement required to complete this item in place shall be paid for under separate bid items.

The quantity of PVC pipe to install on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual lineal footage varies from the quantity shown on the Bid Sheet.

Payment shall be at the contract unit price bid per linear foot of Schedule 40 PVC pipe furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 18 Mains to Cap

This item shall consist of furnishing and installing the necessary pipe and fittings to permanently cap existing water mains, which are to remain live, at the locations and to the details shown in the Plans or as directed by the Engineer. Main shall be exposed at the point of capping a minimum of one working day prior to capping for Engineer's final approval of cut location.

The method of capping the mains depends on the type of existing pipe. Asbestos-cement pipe shall be transition flex coupling, 3' PVC pipe, and an MJ cap with a thrust block. Cast iron pipe shall be capped by installing an MJ cap and a thrust block.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment for capping mains shall be at the contract unit price bid per each main to cap and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 19 Existing Valves, Tees, Saddles and Water Mains, to Remove or Abandon

This item shall consist of disconnecting existing taps and removing or abandoning existing valves, tees, saddles and water mains as indicated on the Plans or as directed by the Engineer in accordance with these Special Provisions. Contractor to submit to the Engineer a Pipe Abandonment Plan to summarize the sequence of abandonment activities.

All abandoned taps from live mains shall be removed such that no protrusions remain. The method of abandoning the mains depends on the type of existing pipe. Asbestos-cement, steel, and cast iron pipe shall be plugged with two (2) feet of concrete. Steel pipe shall be abandoned by welding 1/4-inch thick steel plate on cut ends. Use of a restrained MJ cap to abandon steel main, rather than welding, in the event that valve shutdown does not effect a positive shutdown will be subject to Engineer approval and shall continue to be paid under this item.

Cut pipe removed during this procedure shall become the property of the Contractor and shall be disposed of at the Contractor's expense.

Removal of existing valves shall include removing all appurtenances associated with the valve including, but not limited to, risers, valve boxes and lids.

All items to be removed as indicated on the Plans shall become the property of the Contractor and shall be disposed of at the Contractor's expense.

Payment shall be at the contract lump sum and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 20 Water Quality, to Provide

This item shall consist of furnishing, installing, and maintaining water quality control measures (BMPs) elements associated with this project in accordance with Section 16 of these Standard Specifications.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment, processing and incidentals and for doing all work involved in designing, placing and maintaining in effective condition all erosion, sediment and pollution control BMPs as specified in these Special Provisions, and as directed by the Engineer.

Item No. 21 Concrete, to Remove and Replace

Concrete encountered on private property shall be removed and replaced as necessary to install and connect residential water services and to abandon back yard water services and shall be paid for under this item. Concrete shall meet the applicable portions of Sections 10, 19, and 24 of the City Standard Specifications. Limits of concrete removal and replacement shall be approved by the Engineer prior to work.

All concrete used for surface restoration in public right-of-way shall be included in the appropriate bid items of these Special Provisions.

The quantity of concrete shown on the Proposal is for bidding purposes only. The unit price indicated will not be adjusted because the actual quantity varies from the quantity shown on the Proposal.

This item shall cover all concrete pavement replacement not specified in the previous bid items. The removal and replacement of on-site concrete patios and walkways, driveways, and sidewalks in order to construct new water services, shall be paid for under this item. Where directed by the Engineer, the Contractor shall remove concrete pavement and replace the surface in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Unless otherwise directed by the Engineer, newly placed concrete paving shall match existing pavement edges. Limits of concrete removal and replacement shall be approved by the Engineer prior to work.

Included in this item are the saw cutting, excavation, removal and disposal of existing concrete pavement. Existing manhole/vault head and covers, valve or meter box and lids, castings and other associated appurtenances shall be salvaged and reset at the proposed grades. At the Engineers discretion, any box or lids damaged by the

Contractor's operation shall be repaired or replaced by the Contractor for no additional charge.

Payment shall be at the unit price bid per square foot of concrete to remove and replace and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals, and for performing all work necessary to complete this item in place.

Item No. 22 <u>Asphaltic Concrete, to Remove and Replace</u>

This item shall include miscellaneous asphaltic concrete removal and replacement for right-of-way and private property repairs. This work is not shown on the Plans but shall be performed by the Contractor at the direction of the Engineer.

Asphaltic concrete requiring removal and replacement for installation of the water main, water service laterals, capping and abandoning water main, connecting existing and new mains, and gate valves shall not be included in this item.

Asphaltic concrete shall be removed and replaced in accordance with the City Standard Specifications and these Special Provisions on Pavement Cutting and Surface Restoration.

The quantity of asphalt paving shown on the Proposal is for bidding purposes only. The unit price indicated will not be adjusted because the actual quantity varies from the quantity shown on the Proposal.

Payment shall be at the unit price bid per square foot of asphaltic concrete to remove and replace and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals, and for performing all work necessary to complete this item in place.

Item No. 23 <u>Unsuitable Material, to Remove and Replace</u>

This item shall consist of furnishing all labor, equipment and materials to remove and replace unsuitable materials in accordance with the requirements in Section 14-8 of the City Standard Specifications, these Special Provisions and as directed by the Engineer.

Measurement for payment for unsuitable material shall be based upon a weight of the material place based on conversion factor of 140 lbs/cf to verify unsuitable material replaced.

Payment shall be at the contract unit price bid per ton for unsuitable material removed and replaced and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 24 Potholes

This item shall consist of potholing as directed by the Engineer.

The quantity of potholes shown on the Proposal is for bidding purposes only. The unit price indicated will not be adjusted because the actual quantity varies from the quantity shown on the Proposal.

The Contractor is required to pothole each utility crossing and water main tie-in location; the costs for these potholes shall be included in the price to furnish and install the new water main and are not included in this bid item.

Payment shall be at the contract unit price bid per each pothole and shall include full compensation for furnishing all labor, materials, tools, equipment, and for performing all work necessary to complete this item in place.

Item No. 25 Temporary Potable Water Supply System

This item shall consist of implementing an above ground temporary potable water supply system per the Plans (TW-1, TW-2, and TW-3) and Technical Specification 02072 – Temporary Potable Water Supply System.

Payment for this item shall be at the contract lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment, and for performing all work necessary to complete this item in place.

END OF SECTION

SECTION 5
TECHNICAL SPECIFICATIONS

FOR

LITTLE POCKET AND TAHOE PARK
WATER MAIN REPLACEMENT PROJECTS

(PN: Z14010065)

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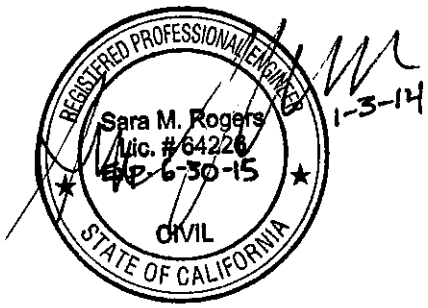


SECTION 02072

TEMPORARY POTABLE WATER SUPPLY SYSTEM

PART 1 - GENERAL

1.01 SCOPE OF WORK

A. This specification covers the requirements for implementing an above ground temporary potable water supply system (TPWSS) including, but not limited to, mains, service connections, and associated appurtenances prior to disconnecting service of an existing water main for the purpose of replacing the main in the same location.

1.02 REQUIREMENTS

Prior to isolating any section of the existing water main for removal and replacement as required in the contract, the Contractor shall furnish, install, disinfect, and maintain and operate the temporary potable water supply system on a twenty-four hour, seven day a week basis (24/7) to all properties and other buildings, whether occupied or not, which are connected to the existing main to be removed and replaced. The Contractor is responsible for the removal of the TPWSS piping, valves not otherwise indicated on the plans to be abandoned in-place, temporary service connections once the system is no longer needed, and restore any damaged surfaces to existing condition.

The contract plans contain an above ground TPWSS layout that may be used to implement the TPWSS. The Contractor may elect to submit an alternate TPWSS layout for City approval. The TPWSS shall meet the codes and regulations of all agencies having jurisdiction.

The Contractor shall maintain the TPWSS in safe and operative conditions at all times and shall be solely responsible for the protection of life, property, and prevention of injury to persons and structures. Sufficient safeguards shall be provided by the Contractor to prevent tampering and vandalism to the TPWSS, and the Contractor shall have full responsibility for the safety and adequacy of protection provided.

The Contractor shall provide temporary water services on a 24/7 basis for customers whose permanent service line and fire service is:

Out of service due to the mainline pipe to which it is connected to being replaced

Out of service due to the main pipe to which it is connected being served only by the main being rehabilitated or replaced, including dead end pipes and pipes ending at isolation valves.

Out of service for any other reason in connection with work under this contract.

The Contractor shall field locate all water services and temporary connection points, in advance, that will be served by the TPWSS. The Contractor shall adhere to the notification requirements as defined in these specifications providing adequate notice to property owners and residents who will receive temporary water service.

1.03 REFERENCE SPECIFICATIONS, CODES, STANDARDS, AND DEFINITIONS,

Except as otherwise indicated, the current edition of the Specifications and Standards listed in the General Provisions apply to the work of this Section.

Industry Standards

American Water Works Association (AWWA)
C510-07 Double Check Valve Backflow Prevention Assembly

ASTM International
D 1784-08 – Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
D 2241-05 – Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)
D 3139-98 (2005) – Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
F 477-08 – Elastomeric Seals (Gaskets) for Joining Plastic Pipe

NSF International
61-2010 Drinking Water System Components - Health Effects

Americans with Disability Act (ADA Compliance)

California Department of Public Health Standards

Definitions

For the purpose of this specification, the following definitions apply:

Associated appurtenance means structures, devices, and appliances, other than pipe and conduit that are used in connection with a water distribution system, such as valves, hydrants, corporation cocks, services, and thrust restraints.

Excavation, Earth and Rock means the excavation classified as earth and rock according to the contract documents.

Temporary Hydrant means temporary fire hydrant and all associated temporary appurtenances.

Temporary Potable Water Supply System means temporary water mains, services, hydrants, and all associated appurtenances.

Temporary Water Services means temporary potable water supply services installed on or just below the ground surface for the purpose of providing potable water to customers while the existing water main is out of service.

Temporary Water main means temporary potable water supply hose or pipe installed on or just below the ground surface for the purpose of providing potable water to temporary services and temporary fire hydrants while the existing water main is out of service.

Water main means an installation designed for the conveyance of water under pressure using circular pipe.

Residential Water Service means any dwelling, structure, or facility that ordinarily receives water from the local utility agency.

1.04 SUBMITTALS

The following information shall be submitted in accordance with Section 01300, no later than 14-Days prior to the commencement of all work requiring temporary potable water supply services:

TPWSS materials that will be used
TPWSS setup sequence and schedule
Testing and disinfection procedure
Procedure for connecting to fire hydrants and hot tapping existing mainlines
Transition approach from below ground to above ground
Vehicle/pedestrian crossing approach and materials
Temporary water service connection approach
Security/vandalism protection measures

The Contractor may submit an alternate TPWSS approach for approval. The submittal shall contain, at a minimum, the information requested above and plans showing the layout of the proposed system

Part 2 - PRODUCT

2.01 GENERAL

The pipe size, type, and class shall be as specified in the Contract Document or approved equal. Fittings shall be suitable for and compatible with the pipe material and class with which they are used. All materials in contact with potable water shall be NSF/ANSI 61 compliant and, if being reused, shall have been used exclusively for potable water service. All materials shall be capable of withstanding 150 psi (minimum) pressure and all other conditions of use. All materials shall be lead free, and shall pass the flushing and disinfection requirements in accordance with City standard specifications.

The Contractor shall field verify all lengths and necessary parts prior to ordering materials. The Contractor shall contact material supplier to determine material delivery time, but shall anticipate a minimum of 2-4 months from time of order to delivery on-site. This time frame shall be included in the Contractors project schedule

2.02 MATERIALS

Temporary Potable Water Supply System

The piping material and all other materials used in conjunction with the TPWSS shall comply with current NSF regulations for potable water systems and be as follows:

AquaMan Blue flexible hose and fittings or approved equal. Materials shall be abrasion resistant and capable of being driven over by vehicles periodically without short term effects and be resistant to UV light.

b. Piping and fitting materials shall be of material that does not impart any taste or odor to the water.

c. All fittings, couplings, and other connectors shall be lead free and NSF/ANSI 61 compliant.

d. All materials shall meet a minimum hydrostatic design pressure of 150 psi.

e. Rigid pipe shall be made of class 12454-B PVC material according to ASTM D 1784. PVC shall be formulated with impact modifiers, heat stabilizers, and ultraviolet inhibitors. Schedule 40 and 80 PVC pipe will not be allowed.

f. Pipe extrusion shall meet or exceed all requirements of ASTM D 2241.

g. Joints and couplings shall be according to ASTM D139.

h. O-rings shall be according to ASTM F 477.

Valves

1. All valves shall comply with City of Sacramento Standard Specifications.

Temporary Connection to Water Source

1. Fire Hydrants
   Temporary connections made to fire hydrants shall be equipped with a quick release mechanism that would allow quick disconnection by authorized personnel.

   The fire hydrant valve mechanism may be used as the shutoff valve.

2. Hot Tap Existing Mainline
   Hot tap connections onto existing water mains shall be performed by City crews and coordinated through Chuck Barsuglia (916-804-4024). The Contractor is responsible for providing all necessary parts and valves necessary for the City to hot tap the main.
3. Gate valves shall be abandoned or removed as indicated on the plans. Valves abandoned in-placed shall be made with a threaded plug or blind flange with gasket as directed by the City.

2.03 EQUIPMENT – NOT USED

PART 3 - EXECUTION

3.01 GENERAL

Written notices to all affected property owners is required a minimum of 24 hours prior to any disruption of water service as a result of the temporary system.

Temporary water services shall be connected to the temporary water main for each residential unit or other building.

Connection of the Residential Water Service shall be via a an outside hose bib (3/4" or greater) or connection into the existing system where the permanent water service connection will be made. The connection of residential water service in series is not permitted. Each temporary water service shall have its own valve connection to the temporary water main.

Connection to other buildings shall be as specified in the Contract Documents.

An adequate water supply shall be available at all times (24/7). If the temporary potable water supply service fails, it shall be restored immediately upon being reported or discovered. Care shall be given during making any repairs to prevent contaminating the system. At all times, the Contractor shall be responsible adequate disinfection of the TWPSS in accordance with the City Standard Specifications.

Prior to installing the TPWSS, the Contractor shall coordinate and schedule with the City for the City crews to operate valves in order to implement the TPWSS. The Contractor shall not operate City valves without prior approval.

The Contractor shall exercise care during the installation of temporary potable water supply system to avoid contamination of the services. The Contractor shall adhere to the City disinfection procedures and AWWA standards.

No fire hydrants are anticipated to be off-line while the TPWSS is active. In the event a fire hydrant needs to be taken out of service, the Contractor shall notify the City, Fire Department, and Engineer in advance and schedule a meeting to identify any possible additional measures needed.

3.02 TEMPORARY POTABLE WATER SUPPLY SERVICES

Temporary potable water supply services for residential water service shall be, as defined in Table 1, minimum 1-inch inside diameter. Temporary potable water supply services for the impacted address are shown below.

The temporary potable water supply service connections shall have an isolation valve near the point of connection to the temporary water main. The service line to the point of connection of each residential water service shall have the ability to be temporarily capped allowing both the temporary water main and the temporary potable water supply services to be disinfected per the City Standard Specifications prior to making the connection.

The following table identifies each of the temporary water service locations and sizes. Additional information is provided on the plans.

Table 1 - Impacted Residential Water Services

TPWSS ID	Address	Loction from Centerline of 14th Ave	Proposed Water Source	Number of Connections	Existing Connection Size (inch)	Temp Service Size (Inch)
A	6255 14th Avenue	North	6" Blowoff on 3741 Marjorie Way	1	1.5	1.5
B	6240 14th Avenue	South	Hot Tap off Ex. 6" within 62nd Street (South)	2	1	1
C	6415/6413 14th Avenue	North	Hot Tap off Ex. 6" at 6411/6409 14th Avenue	1	1	1
C	6417 14th Avenue	North	Hot Tap off Ex. 6" at 6411/6409 14th Avenue	1	1	1
D	6300 14th Avenue	South	Hot Tap off Ex. 6" within Fotos Court (South)	1	1	1
D	6302/6304 14th Avenue	South	Hot Tap off Ex. 6" within Fotos Court (South)	1	1	1
D	6372/74/76/78 14th Avenue	South	Hot Tap off Ex. 6" within Fotos Court (South)	1	1.25	1.5
D	6386/84/82/80 14th Avenue	South	Hot Tap off Ex. 6" within Fotos Court (South)	1	1.25	1.5
F	3905 65th Street	South	Hot Tap off Ex. 6" within 65th Street (South)	1	1	1
F	6540 14th Avenue	South	Hot Tap off Ex. 6" within 65th Street (South)	1	1	1
E	6421/3865 14th Avenue	North	Fire Hydrant Service at 3866 65th Street Express	1	1	1
E	6423 14th Street Avenue	North	Fire Hydrant Service at 3866 65th Street Express	1	1	1
E	6435 14th Street Avenue	North	Fire Hydrant Service at 3866 65th Street Express	1	1	1

3.03 VALVES

Each point of connection to the temporary water source shall have a gate valve installed or utilize an existing valve that would allow the entire TPWSS to be shut down.

Each branch off the temporary water main shall have, at a minimum, a valve installed to isolate each residential water service from the temporary main.

Before permanently shutting down the existing water main, the valves shall be tested to ensure that they are in proper working order.

Valves shall be equipped with a tamper proof device preventing the valves to be closed or open from unauthorized personnel. At a minimum, the contractor shall install chains to prevent the turning of the valve.

3.04 PROTECTION

The Contractor shall provide protection of the above ground temporary potable water supply system at locations such as road crossings, sidewalks, driveways, and walkways. Safety flashers, barricades, and ramps, as may be required, shall be furnished and maintained while the system is in place. In general, the temporary potable water supply system pipe shall be installed where it causes the least obstruction and safety hazard and is least likely to be damaged. If the safety system proposed by the Contractor is deemed inadequate by the City or Engineer the Contractor shall provide additional safety measures at no additional cost to the City.

When temporary water mains cross over the roadway and driveways, temporary vehicle ramps that allow continuous travel shall be implemented. As an alternative with City approval, the asphalt pavement may be saw cut and removed and the temporary water main buried. Under no circumstance is a pipe crossing a road, driveway, or pedestrian path to remain open and unprotected. If a concrete base exists, it shall not be disturbed. All surfaces shall be restored to City Standards.

The temporary potable water supply system will be installed above ground. Some locations exist that may require portions of the TPWSS to be buried. It is anticipated that the TPWSS will be installed both in and adjacent to the City's right-of-way. The Contractor shall obtain written permission from the property owners where the TPWSS is installed on property outside the City right-of-way.

The Contractor shall take precautionary measures to prevent or discourage vandalism and theft on the temporary potable water supply system. Such measures may consist of, but not limited to: locking or chaining valves, placing valves and other fittings is in temporary boxes, or having removablevalve handles.

3.05 LEAKAGE TESTING

The temporary potable water supply service shall be watertight.

The Contractor shall conduct regular visual inspection on the system for leaks and other potential concerns. The Contractor shall correct all leaks and other potential concerns immediately and notify the City of any repairs.

3.06 FLUSHING AND DISINFECTING TEMPORARY WATER MAINS AND SERVICES

Flushing and disinfecting operations shall be conducted in the presence of the City. The City shall be notified at least 2 Business Days in advance of the proposed date on which flushing and disinfecting operations are to commence. All temporary water sources shall be flushed and disinfected prior to connecting to the temporary water main. Temporary water mains shall be flushed in a sequence approved by the Engineer. All temporary water mains and services shall be flushed at a flow velocity adequate to remove any foreign debris and until the discharged water runs clear.

The disinfection and flushing shall be done in accordance with the City Standard Specifications and manufactures disinfection recommendations.

The Contractor shall be responsible for obtaining any permits and fees associated with flushing and disinfection, and coordinating with the City and other agencies with jurisdiction.

END OF SECTION

APPENDIX A

Location Description Examples and Abbreviations

Water Book Legend and Water Book Pages

Little Pocket Area:

- KK12
- LL11
- LL12
- MM11
- MM12

Tahoe Park Area:

- JJ19
- JJ20

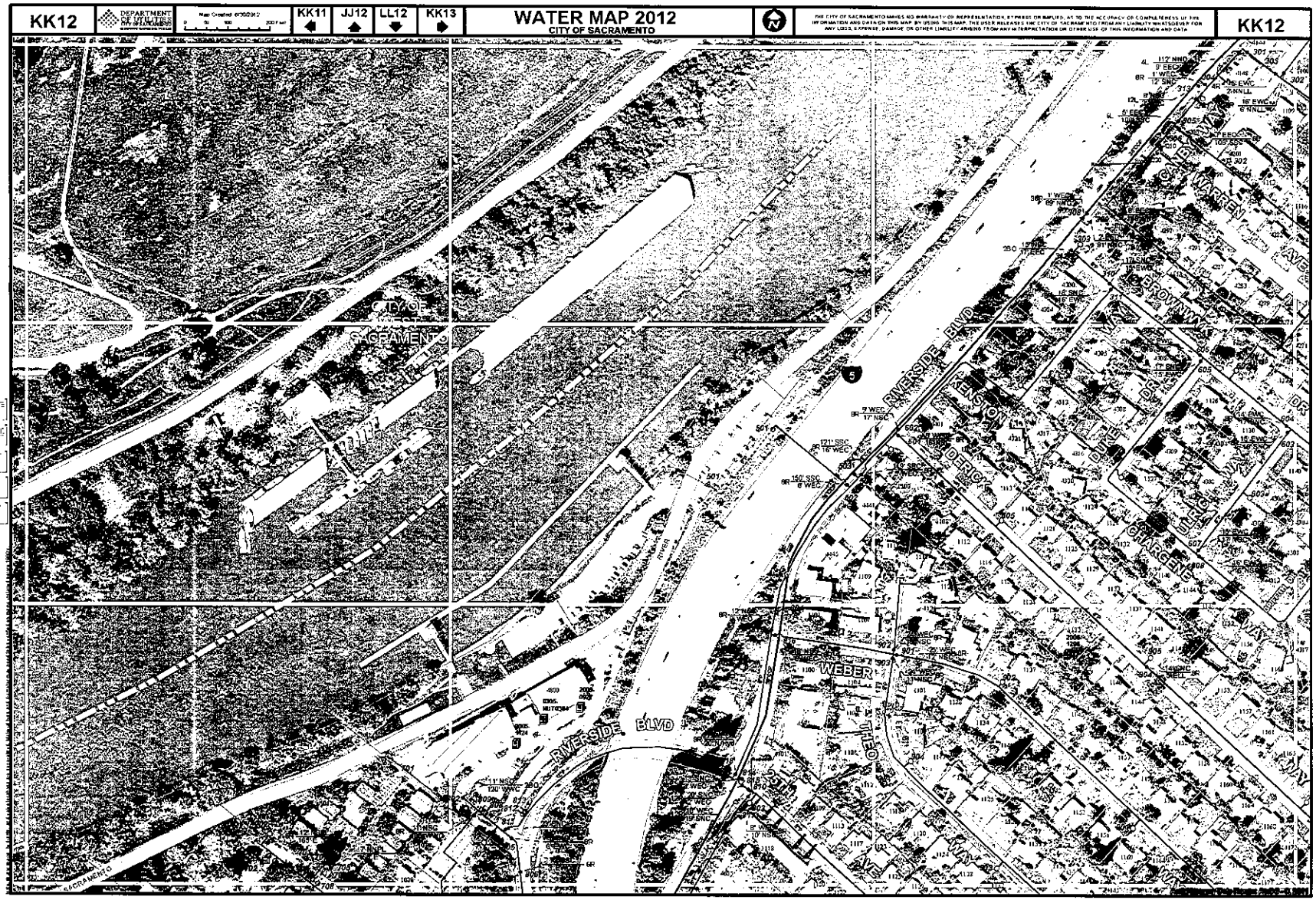
Measurement Examples

Fire Hydrant - include address where hydrant is located and distance and direction from water main.

FH Located in front of 1500 10th Ave.
Brand name (type) of FH
Model number
10' north of main

Fire Hydrant Gate Valve - include distance and direction from fire hydrant.
FH GV 9' south of Fire Hydrant

Meter Box - include address and location.
MB 1400 Wentworth Ave: 45" NSPL, 5' EEC


KK12
DEPARTMENT OF UTILITIES
KK11
JJ12
LL12
KK13
WATER MAP 2012
CITY OF SACRAMENTO
KK12
SACRAMENTO
RIVERSIDE BLVD
WEBER
BROWNING
CHARGENE
WAY

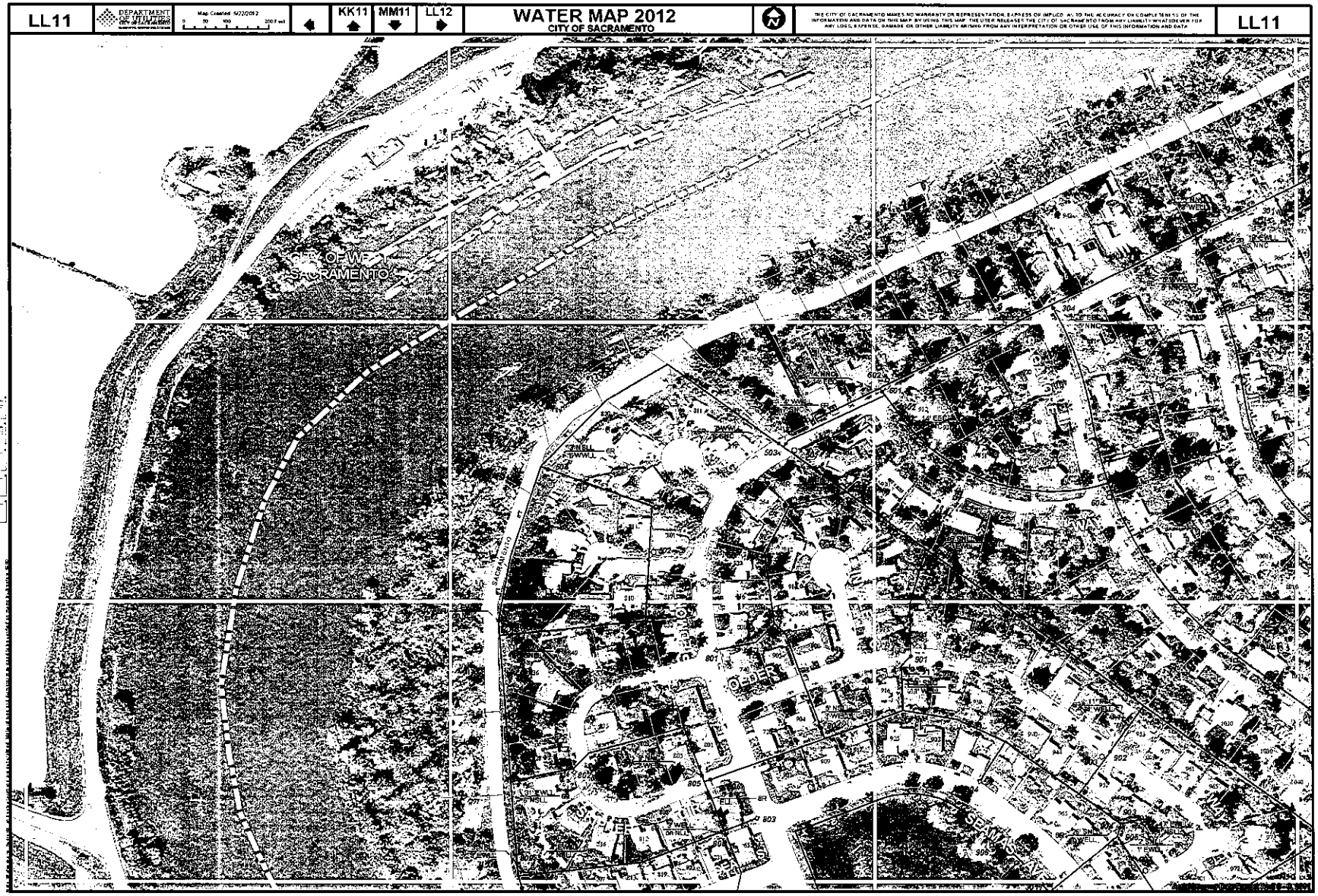
VALVES

New ID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
301	79	48	4L	GTVLV			112' NNC Volz Dr - 9' EEC Riverside Blvd	
302	124	48	6R	GTVLV			16' EWC - 6' NNLL 4148 Canby Wy	
303	125	48	4R	GTVLV			15' EWC - 2' NNLL 4148 Canby Wt	
304	152	48	8R	GTVLV			1' WEC Riverside Blvd - 12' SNC Volz Dr	
305	88	48	6L	GTVLV			5' EEC Riverside Blvd - 108' SSC Volz Dr	
306	89	48	6L	GTVLV			7' EEC Riverside Blvd - 108' SSC Volz Dr	
307	149	48	8R	GTVLV			8' EEC Riverside Blvd - 148' NNC Brownwyk Dr	
308	150	48	36R BV	BTVLV	110		110 Turns - 1' WEC Riverside Blvd - 89' NNC Brownwyk Dr	
309	151	48	2AV	ARVLV			2' EEC Riverside Blvd - 86' NNC Brownwyk Dr	
310			8R	GTVLV				
311			8R	GTVLV				
312			2BO	BLVLV		BO		
313			12L	GTVLV			8' NSC of Volz Dr - 3' WEC of Riverside Blvd	
501	173	48	6	SVVLV		PVT FH	Private Hyd Service - 120' SNLL of 4350 Riverside Blvd - 13' WWPL of I-5 Freeway	4350 Riverside Blvd
502			8R	GTVLV			(to Privt. Hyd. Hotel Parking lot) 150' SSC of Derick - 8' WEC	
503			8R	GTVLV				
504			8R	GTVLV				
601			8R	GTVLV				
602			8R	GTVLV				
603			8R	GTVLV				
604			8R	GTVLV				
605			8R	GTVLV				
606			8R	GTVLV				
607			8R	GTVLV				
608			8R	GTVLV				
701			(CLOSED)	SVVLV			29'EWC - 24'SNC (CLOSED)	
702	0	50	4	SVVLV				
704	119	50	8R	SVVLV		FS	Fire Svc-755' WWC Riverside Blvd - 6' NSC Rio Lane	
705	77	50	6R	GTVLV			Detector Check - 7' NNPL Rio Ln - 165' E of FH 48 (1005-15 Rio Ln)	
706	0	50	6	CKVLV				
707	71	50	4R	SVVLV		DS	Dom Svc - 12' NSPL Rio Ln - 160' E of FH 48 (1005-15 Rio Ln)	1005-1015 Rio Lane
708	72	50	6R	SVVLV		FS	Fire Svc - 12' NSPL Rio Ln - 165' E of FH 48 (1005-15 Rio Ln)	
802	99	50	2BO	BLVLV			11' NSC Captains Table Rd - 120' WWC Riverside Blvd.	
804	90	50	8R	GTVLV			11' NSC Captains Table Rd - 105' WWC Riverside Blvd	
805	107	50	8R	GTVLV			11' NSC Captains Table Rd - 8' EWC Riverside Blvd	
806	91	50	6R	GTVLV			72' SSC Captains Table Rd - 3' EWC Riverside Blvd	
808			8R	SVVLV		FS	88' WWC of Riverside Blvd - 8' SNC of Captains Table Rd.	
809			4R	SVVLV		DS	100' WWC of Riverside Blvd - 15' NSC of Captains Table Rd.	
810			12R	GTVLV			19' SNC of 25th Avenue - 10' WEC of Karbet Way	
811			8R	GTVLV			23' SNC of Captains Table Rd. - 13' WWC of Riverside Blvd.	
812			10R	SVVLV		FS	7' EWC of Riverside Blvd. - 38' NNC of Captains Table Rd.	
813			6R	SVVLV		DS	7' EWC of Riverside Blvd. - 37' NNC of Captains Table Rd.	
814			12R	GTVLV			13' SNC - 3' WEC	
815			12R	GTVLV			20' SNC of 25th Avenue - 2' WEC of Karbet Way	
816			8R	GTVLV				
817			8R	GTVLV				
818			8R	GTVLV			11' WEC - 20' north of hydrant	
819			8R	GTVLV				
901			8R	GTVLV				
902			8R	GTVLV				
903			8R	GTVLV				
904			8R	GTVLV				

HYDRANTS

New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
301	95	48	D	STD	D1-4 1/2 H			SE Cor Volz Dr & Riverside Blvd
302	47	48	WH	WH	4R(4x2 1/2)	Use GV 89_81_84		On EC Canby Wy - 3' NSLL 4201 Canby Wy
303			M	STD	M8-5 1/4H	23' S	25' N	
501			M	PRIV				Hotel Parking Lot
601			M	STD	M8-5 1/4H	18' E	20' W	
602			M	STD	M8-5 1/4H	17' N	19' S	
603			M	STD	M8-5 1/4H	18' W	20' E	
604			M	STD	M8-5 1/4H	16' W	18' E	(valve location: 16' NNC - 14' WEC)
605			M	STD	M8-5 1/4H	18' S	20' N	
606			M	STD	M8-5 1/4H	41' W	43' E	
607			M	STD	M8-5 1/4H	17' W	19' E	22' SSC of Derick - 6' EEC of Riverside
701	74	50	K	PRIV	K9-4 1/2 H			S side Captains Table Rd - 295' N of dectector check #77 - NW Cor apartment complex
702	48	50	PS	STD	PS3-4G	26' S	30' N	N side Rio Ln - 900; WWLL Riverside Blvd
802	27	50	AO	DP	AD2-5 1/4H	21' N	22' S	S side Captains Table Rd - 81' WWC Riverside Blvd
803			M	STD	M8-5 1/4H	21' N	22' S	
804			M	STD	M8-5 1/4H	17' W	19' E	
901			M	STD	M8-5 1/4H	16' N	18' S	
902			M	STD	M8-5 1/4H	8' S	10' N	
903			M	STD	M8-5 1/4H	16' N	18' S	
904			M	STD	M8-5 1/4H	19' S	21' N	
905			M	STD		19' S	21' N	

KK12


LL11
DEPARTMENT OF UTILITIES
Map Created: 5/7/2012
KK11
MM11
LL12
WATER MAP 2012
CITY OF SACRAMENTO
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LL11
CITY OF WEST SACRAMENTO
RIVER
SACRAMENTO
SEAMAN

VALVES

New ID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
301	86	50	2R	GTVLV			19' EWLL & 5' NNC 973 Piedmont Wy	
302	92	50	4R	GTVLV			5' NNC - 3' WELL 961 Piedmont Dr	
303	60	50	6L	GTVLV			5' WWC Piedmont Dr - 5' NNC Casilada Wy - 14' SNLL 955 Piedmont Dr	
304	59	50	6L	GTVLV			5' NNC Piedmont Dr - 5' EEC Sagamore Wy (E) - 20' NSLL 937 Piedmont Dr	
502	113	50	6R	GTVLV			4' WWLL 879 Piedmont Dr - 7' SNC Piedmont Dr	
503	112	50	6R	GTVLV			7' WWLL 879 Piedmont Dr - 6' SNC Piedmont Dr	
504	39	50	6R	GTVLV			3' NSLL - 1' WWLL 810 Yacht Ct	
505	43	50	4R	GTVLV			11' WELL - 2' SNLL 924 Linvale Ct	
506	40	50	2	SVVLV			(Under Stump) 2' E & 2' N of dead end pole in SW Cor 800 Yacht Ct -	800 Yacht Court
601	73	50	4R	GTVLV			4' NNC Piedmont Dr - 14' EEC Inez Way	
602	114	50	4R	GTVLV			14' EEC Inez Wy - 6' SNC Piedmond Dr	
603	45	50	6R	GTVLV			6' SNLL - 1' EWLL 921 Roeder Wy	
801	38	50	2	SVVLV			9' WWLL - On NLL 801 Piedmont Dr - 8' W of pole in NW Cor of lot - 1' S of EW pole line	801 Piedmont Drive
802	41	50	6R	GTVLV			3' EWLL - on NLL 840 Skipper Cir	
803	42	50	4R	GTVLV			4' EWLL - 3' SNLL 840 Skipper Cir	
804	46	50	6R	GTVLV			5' NSLL - 3' WELL 904 Roeder Wy	
805	31	50	4R	GTVLV			9' NNC Skipper Cir - 2' WELL 805 Skipper Cir	
806	30	50	8R	GTVLV			5' SNC Skipper Cir - On ELL 805 Skipper Cir	
807	32	50	6R	GTVLV			31' EWLL - 6' NSLL 828 Skipper Cir	
808	29	50	6R	GTVLV			(NO ACCESS, UNDER FENCE) 3' WELL - on NLL 831 Seamas Av	
809	35	50	6R	GTVLV			3' NSLL - 3' EWLL 820 Skipper Cir	
810	34	50	8R	GTVLV			4' EWLL - 2' NSLL 820 Skipper Cir	
901	44	50	8R	GTVLV			11' SNC Roeder Wy - 11' WELL #915	
902	50	50	6R	GTVLV			11' NSC Roeder Wy - 4' WELL 948 Roeder Wy	
903	49	50	2L	GTVLV			47' EWLL - 1' NSLL 958 Roeder Wy	
904	48	50	8R	GTVLV			26' SNLL - 1' WELL 973 Seamas Av	
905	47	50	8R	GTVLV			2' SNLL - 1' EWLL 981 Seamas Av	
906	66	50	4	SVVLV			Service - 2' EWLL of Sump 56 - 8' SSC Seamas Av	

HYDRANTS

New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
301	35	50	WH	WH	4R(4x2 1/2)	Use GV 59_60_	7top of main	6' WWC Piedmont Dr - 2' NSLL 949 Piedmont Dr
501	23	50	PS	STD	PS3-4G	2' S & 1' W	3' N	On NPL 886 Piedmont Dr - 2' EEPL Piedmont Dr
502	22	50	W	STD	W1-5 1/4 H	2' E	3' W	5' NNC Riverview Ct- 3' WELL 811 Riverview Ct
601	33	50	WH	WH	4R(4x2 1/2)	Use GV 59_60_	7top of main	6' WWC Piedmont Dr - on NLL 925 Piedmont Dr
602	34	50	WH	WH	4R(4x2 1/2)	Use GV 59_60_	7top of main	6' WWC Piedmont Dr - on NLL 907 Piedmont Dr
603	43	50	M	WH	M6-5 1/4H	2' E	1' S	6' NNC Casilada Wy - on NLL 981 Casilada Wy
604	58	50	PS	STD	PS3-4G	2' W	1' S	4' NNC - 1' WELL 981 Sagamore Wy
801	21	50	WH	WH	4R(4x2 1/2)	1' E	EOM	6' EEC Piedmont Dr - 3' NSLL 800 Piedmont Dr
802	19	50	WH	WH	4R(4x4 1/2)	1' S	2' N	5' WWC Skipper Cr - 4' NNLL 824 SkipperCr
803	18	50	WH	WH	4R(4x2 1/2)	1' W	EOM	5' WWC Piedomnt Dr - 2' NNLL 655 Piedmont Dr
804	71	50	WH	WH	3R(3x2 1/2)	Use GV 74_75	Top of main	S side Seamas Av - across from 917 Seamas Av
901	24	50	WH	WH	4R(4x2 1/2)	1' W	2' E	5' NNC Roeder Wy - on WLL 921 Roeder Wy
902	31	50	WH	WH	4R(4x2 1/2)	Use GV 57_59_	7top of main	6' NNC Sagamore Wy - on ELL 1011 Sagamore Wy
903	57	50	PS	STD	PS3-4G	2' W	4' E	S side Roeder Wy - on WLL 952 RoederWy
904	25	50	WH	WH	4R(4x2 1/2)	1' N	112' S	5' NNC Seamas Av - on ELL 941 Seamas Av
905	72	50	WH	WH	3R(3x2 1/2)	Use GV 74_75	Top of main	S side Seamas Av - across from 933 Seamas Av
906	73	50	WH	WH	3R(3x2 1/2)	Use GV 74_75	Top of main	S side Seamas Av - across from 865 Seamas Av
907	26	50	PS	STD	PS5-4H	2' W	4' E	5' NNC Roeder Wy - 3' ELL 984 Roeder Wy

LL11

LL12
DEPARTMENT OF UTILITIES
LL11
KK12
MM12
LL13
WATER MAP 2012
CITY OF SACRAMENTO
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LL12
PIEDMONT
CASILDA
RIVERSIDE
BLVD
KARBET WAY
28TH AVE
29TH AVE
FIRST ST
ELMER
BOWMAN

VALVES

New ID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
101	89	50	8R	GTVLV			9' NSC Rio Ln - 6' WWLL 1055 Rio Ln	
102	105	50	4R	SVVLV			Service - 6' NSC - 64' WELL 1040 Rio Ln	1040 Rio Lane
103	61	50	6L	GTVLV			12' WELL 1005 Piedmont Dr - 5' NNC Piedmont Dr (E-W)	
201	131	48	8R	GTVLV			16' SNC 26th Av - 12' EEC Karbet Wy	
203	175	48	6R	GTVLV			12' NSC Rio Ln - 11' EWC Riverside Blvd	
204	132	48	6R	GTVLV			15' WEPL De Rosa Dr - 15' NSPL 26th Av	
205	176	48	6R	GTVLV			10' NSC Rio Ln - 9' EWC Riverside Blvd	
206	128	48	4R	SVVLV		IS	Irr Svc - 12' SNC Rio Ln - 8' EEC Riverside Blvd (metered)	
207	174	48	8R	GTVLV			1' NSC Rio Ln - 11' EWC Riverside Blvd	
208	182	48	8R	GTVLV			3' WEC Karbet Wy - 113' SSLL 4831 Karbet Wy	
209	181	48	8R	GTVLV			6' WEC Karbet Wy - 117' SSLL 4831 Karbet Wy	
210	127	48	8R	GTVLV			127' SSLL - 26' WEC 4831 Karbet Wy	
211	183	48	6R	SVVLV		FS	47' SSC Rio Ln - 8' EWC Riverside Blvd	
212			8R	GTVLV			128' South of Hydrant 208 - 2' EEC of Karbet Way	
306	134	48	6R	GTVLV			20' EWC Norm Cir - 16' SNC 26th Av	
307	133	48	8R	GTVLV			17' EWPL Norm Cir - 19' SNPL 26th Av	
309	135	48	6R	GTVLV			18' SNC 26th Av - 15' WEC Norm Cir	
310			8R	GTVLV				
311			8R	GTVLV				
312			8R	GTVLV				
313			8R	GTVLV				
314			8R	GTVLV				
315			8L	GTVLV			32' WEPL of 1149 25th Ave - 16' NSC	
401	62	50	4R	GTVLV			8' NNC Appollo Wy - 1' WEPL 1081 Appollo Wy	
501	171	48	8R	GTVLV			2' SNLL - 14' WWLL 5100 Da Rosa Dr	
502	170	48	8L	GTVLV			4' SNLL - 6' WWLL 5100 Da Rosa Dr	
503	169	48	8L	GTVLV			20' SNLL - 8' WWLL 5100 Da Rosa Dr	
504	140	48	6R	GTVLV			1' SNLL 5101 Da Rosa Dr - 18' EWC Da Rosa Dr	
505	141	48	6R	GTVLV			3' SNLL 5101 Da Rosa Dr - 17' EWC Da Rosa Dr	
506	70	50	6R	GTVLV			4' SNC Piedmont Dr - 4' EWPL Alley	
507	177	48	6R	GTVLV			5' NSC 27th AV - 4' EEC Karbet Wy (N)	
508	178	48	8R	GTVLV			1' SNC 28th Av - 4' WEC Karbet Wy	
509	179	48	6R	GTVLV			5' SNC 28th Av - 2' WEC Karbet Wy	
510			2"BO	BLVLV		BO	205' South of Hydrant 204 - 4' WEC of Karbet Way	
511			8R	GTVLV			14' SNC of 27th Ave. - 16' EWC of Elmer Way	
512			2BO	BLVLV		BO	28' SNC - 5' EWLL of 5101 Elmer Way	
603	136	48	6R	GTVLV			18' SNC 26th Av - 13' WEC Rex Ct	
604	142	48	6R	GTVLV			13' EWC Norm Cir - 12' NSLL Norm Cir	
605	137	48	8R	GTVLV			16' SNPL 26th Av - 22' WEPL Euclid Av	
606	138	48	6R	GTVLV			18' SNPL 26th Ave - 20' WEPL Euclid Av	
608	143	48	6R	GTVLV			11' EWC Rex Cir - 4' NSLL 4788 Rex Ct	
610	144	48	6R	GTVLV			3' SNLL - 64' EWLL 5100 Squires Ct	
611			6R	GTVLV				
612			8R	GTVLV				
613			8R	GTVLV				
701	64	50	8L	GTVLV			12' NSLL - 5' EELL 1080 Appollo Wy	
702	63	50	8L	GTVLV			9' NSLL - 5' EELL 1080 Appollo Wy	
703	76	50	8L	GTVLV			1' WEPL Alley - 6' SNC Casilada Wy	
704	87	50	8R	GTVLV			10' EWC Riverside Blvd - 7' SNC Casilada Wy	
705	88	50	8R	GTVLV			16' EWC Riverside Blvd - 7' SNC Casilada Wy	
706	85	50	4R	SVVLV		IS	Irr Svc - 14' SNC Casilada Wy - 8' EEC Riverside Blvd (metered)	
708	51	50	6R	GTVLV			4' SNLL - 4' WELL 973 Roeder Wy	
709	57	50	6R	GTVLV			6' NNC Sagamore Wy - 2' WELL 1081 Sagamore Wy	
710	52	50	8R	GTVLV			7' NSLL - 7' WELL 973 Roeder Wy	
711	58	50	6L	GTVLV			4' NNC Sagamore Wy - 2' EELL 1081 Sagamore Wy	
801	71	49	6L	GTVLV			12' EWC Elmer Wy (S) - 16' SNC 27th Av	
803	90	49	8L	GTVLV			4' SNC 28th AV - 5' EWC Elmer Wy (N)	
804	96	49	6	SVVLV			276' SSC 28th Av - 6' EWC Elmer Wy	
805	130	49	8R	GTVLV			23' NSC Casilada Wy (E) - 73' WWC KarbetWy - 3' S of Walkway Support	
806	129	49	6R	GTVLV			21' NSC Casilada Wy (E) - 75' WWC Karbet Wy - 5' S of Walkway Support	
807	128	49	6R	GTVLV			5' SNC Casilada Wy - 5' WEC Karbet Wy	
808	89	49	6L	GTVLV			4' EELL #1139- 5' SNC Casilada Wy - 5' EWLL 1145 Casilada Wy	
809	88	49	6L	GTVLV			on ELL #1139 - 6' SNC Casilada Wy - On WLL 1145 Casilada Wy	
902	97	49	6	GTVLV			20' WEC Euclid Av - 2' SSLL 5000 Euclid Av	
903	75	49	6L	GTVLV			2' SNLL 5101 Euclid Av - 3' WEC Euclid Av	
904			8R	GTVLV			20' WEC of Squires Ct. - 17' NSC of 27th Ave.	
905			8R	GTVLV			19' WEC of Squires Ct. - 16' NSC of 27th Ave.	
906			2BO	BLVLV		BO	on NPL of 5701 - 21' SNC	
907			6R	GTVLV			15' SNC of 27th Ave. - 3' WEC of Euclid Ave.	
908			8R	GTVLV				
909			8R	GTVLV				
910			12R	GTVLV			19' EWC of South Land Park Dr. - 9' SNC of Noonan Dr.	
911			8R	GTVLV			18' EWC of South Land Park Dr. - 10' SNC of Noonan Dr.	
912			8R	GTVLV			16' EWC of South Land Park - 10' SNC of Noonan Dr.	
913			8R	GTVLV			17' EWC of S.L.P. - 14' SNC of Noonan Dr	

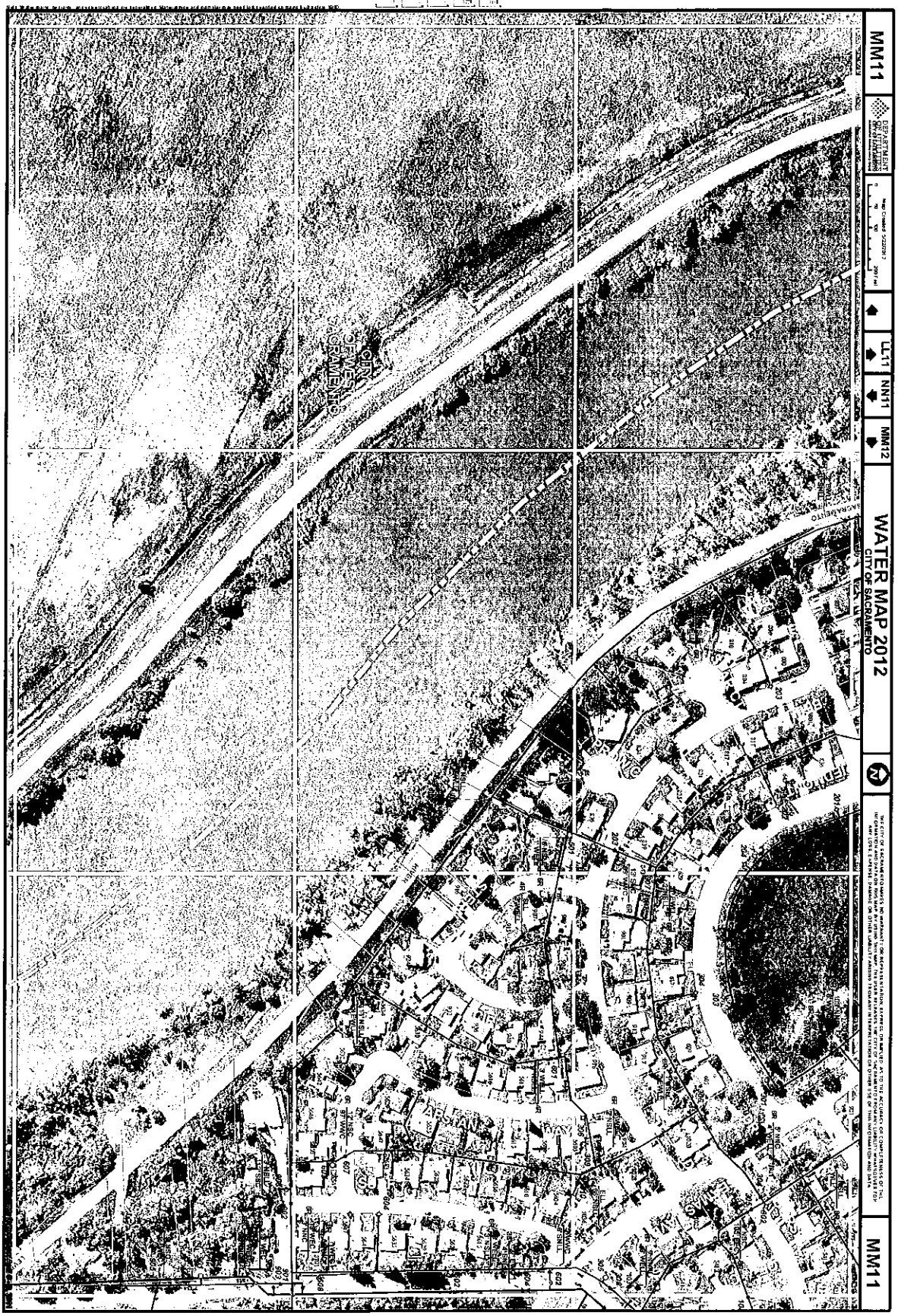
HYDRANTS

New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
		49		PRIV				
		49		PRIV				
101	12	50	AD	DP		8' E	9' W	N side Rio Ln - 14' WWLL 1055 Rio Ln
102	47	50	G	STD	G6-4 1/2 H	9' N	13' S	S side Rio Ln - 511' WWLL Riverside Blvd
103	36	50	WH	WH	4R(4x2 1/2)	Use GV 61_ 62_	70' 8" main	8' WWC Piedmont Dr - 2' NSLL 979 Piedmont Dr
104	37	50	WH	WH	4R(4x2 1/2)	Use GV 61_ 62_	70' 8" main	6' NNC Piedmont Dr - 9' EWLL 1005 Piedmont Dr
201	63	48	WH	WH	3R(3x2 1/2)	Use GV 132_ 13	5' 8" main	On ELL 4650 Barlin Ct
202	76	48	M	STD	M4-4 1/4 G	19' S	21' N	On SPL 1109 26th Av
203	81	48	I	STD	I7-4 1/2 H	14' E	16' W	SW Cor Riverside Blvd & Rio Ln

LL12

HYDRANTS								
New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
204			AD	STD	B-84-B	7' W	8' E	(valve location: 209' SSLL 4831 Kabet Way - 34' EWC of Kabet Way)
205			UNK	STD				(valve location: 14' SNC of 26th - 30' EEC of Berlin Ct)
304			M	STD	M8-5 1/4H	18' E	20' W	
304	77	48	M	STD	M4-4 1/4 G	18' S	21' N	On SPL 1135 26th Av
305			M	STD	M8-5 1/4H	22' N	24' S	(valve location: 3' west of hydrant - 15' NSC)
306			M	STD	M8-5 1/4H	20' S	22' N	
307			M	STD	M8-5 1/4H	16' N	18' S	
308			M	STD	M8-5 1/4H	9' E	10' W	
401	38	50	WH	WH	4R(4x2 1/2)	Use GV 61_ 62_	7Top of main	6' NNC Piedmont Dr - 19' EWLL 1047 Piedmont Dr
402	42	50	PS	STD	PS3-4G	3' E	2' S	On NLL 1021 Appollo Wy
403	41	50	WH	WH	4R(4x2 1/2)	Use GV 61_ 62_	6Top of main	6' NNC Appollo Wy - on EWLL 1041 Appollo Wy
404	51	50	PS	STD	PS3-4G	2' N & 2' W	2' N	On ELL 1081 Appollo Wy - 5' NNC Appollo Wy
501	84	48	M	STD	M4-4 1/4 G	17' E	19' W	W side Norm Cr - on SLL 4726 Norm Cr
502	85	48	M	STD	M4-4 1/4 G	18' W	20' E	E side Da Rosa - on NLL 5001 Da Rosa
503	39	50	WH	WH	4R(4x2 1/2)	Use GV 61_ 62_	7Top of main	N Side Piedmont Dr - 2' EWLL 1085 Piedmont Dr - S side
504	96	48	M	STD	M8-5 1/4H	10' W	13' E	(HYD REPL. 2012) Centurion 250 - NE Cor Karbet Wy & 26th Av
505	74	48	J	STD	4R(4x2 1/2)	4' N	8' S	7' SSC 27th Av - on ELL 1130 27th Av
506			I	STD		3' S	12' N	8' WELL #1119 28th Ave
507			UNK	STD				(valve location: 6' NSC of 27th - 26' EEC of Earls Ct)
601	78	48	M	STD	M4-4 1/4 G	17' S	21' N	On SPL 1155 26th Av
603	79	48	M	STD	M4-4 1/4 G	19' S	21' N	On SPL 1171 26th Av
604	83	48	M	STD	M4-4 1/4 G	1' N	4' S	E side Norm Cr -on NLL 4769 Norm Cr
605	92	48	M	STD	M4-4 1/4 G	1' W	4' E	S side Rex Ct - on WLL 4797 Rex Ct
606	80	48	M	STD	M4-4 1/4 G	25' W	27' E	E side Euclid Ave - SLL 4781 Euclid Ave
607			M	STD	M8-5 1/4H	12' S	14' N	
701	56	50	PS	STD	PS3-4G	3' W	2' S	N side Casilada Wy - on ELL 1041 Casilada Wy
702	45	50	WH	WH	4R(4x2 1/2)	UseGV57_ 58_ 6	7Top of main	6' NNC Casilada Wy - 1' EELL 1081 Casilada Wy
703	6	50	PS	STD	PS3-4H	8' S	10' N	E side Riverside Blvd at Casilada Wy (RO114251)
704	30	50	WH	WH	4R(4x2 1/2)	Use GV 57_ 59_	7Top of main	6' NNC Sagamore Wy - on ELL 1051 Sagamore Wy
705	59	50	PS	STD	PS3-4G	2' W	1' S	4' NNC - 1' WELL 1081 Sagamore Wy
801	57	49	I	STD	I5-4H	3' E	5' W	W side Elmer Wy - 25' N of 28th Av
803	66	49	M	STD	M8-5 1/4H	14' S & 11' E	23' N	(HYD REPL. 2012) N side Casilada Wy - 11' WWLL 1133 Casilada Wy
804	0	49	UNK	STD				
806			UNK	STD				1149 28th St. (valve location: 13' EWC - 29' NNC of 28th)
902	60	49	M	STD	M4-4 1/2 G	22' W	26' E	W side Euclid Av - on WPL 5001 Euclid Av
906		49		PRIV				
907			AD	STD	B-84-B	21' S	22' N	
908			AD	STD	B-84-B	13' S	14' N	
909			AD	STD	B-84-B	13' S	14' N	
911			AD	STD		23' W	25' E	

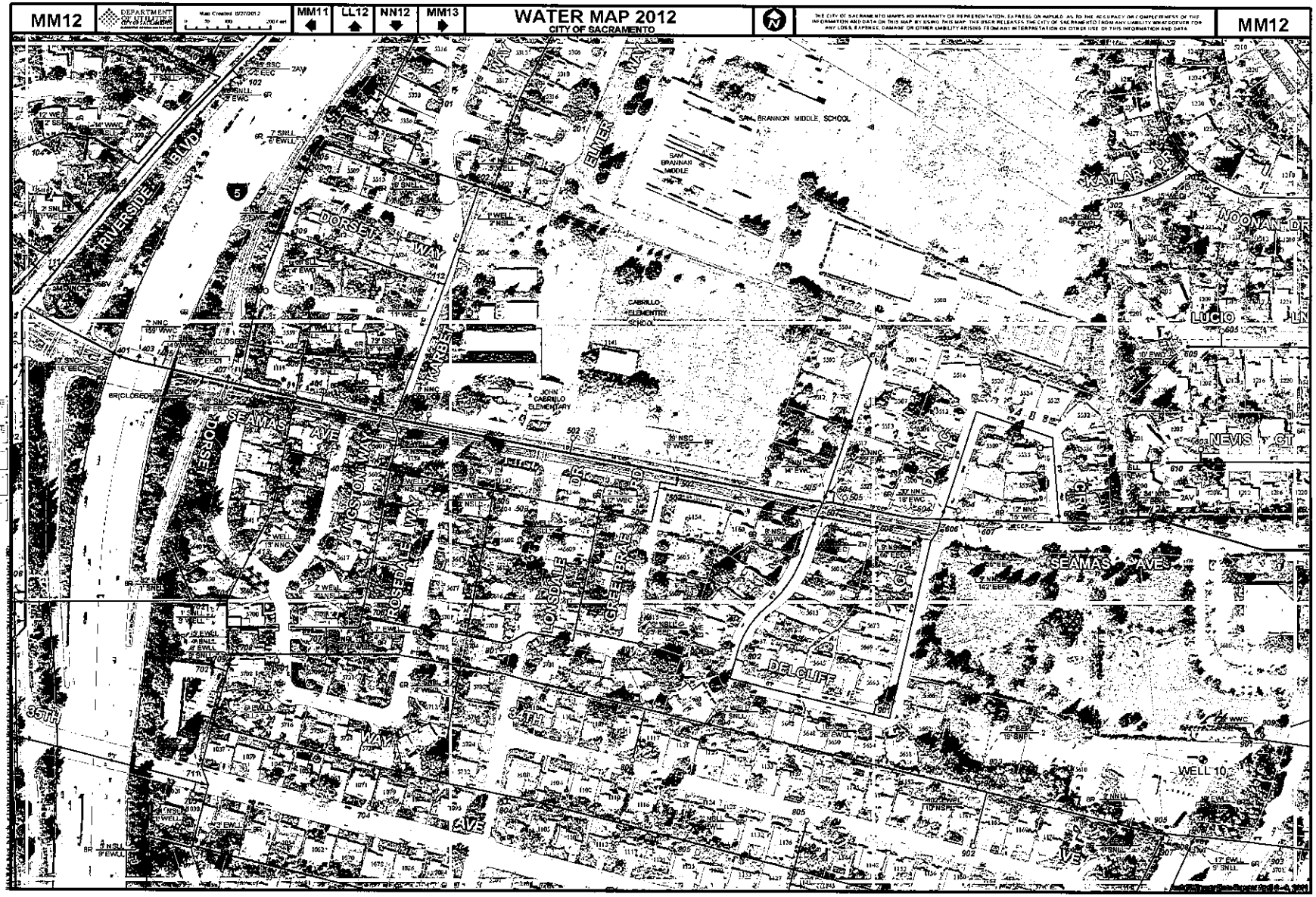
LL12


MM11
DEPARTMENT OF UTILITIES
LL11
NN11
MM12
WATER MAP 2012
CITY OF SACRAMENTO
MM11

VALVES								
New ID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
201	33	50	6R	GTVLV			2' EWLL - 1' SNLL 801 Seamas Av	
202	36	50	6R	GTVLV			15' NSLL - 64' WELL 800 Seamas Av	
203	22	50	8R	GTVLV			13' SNC Bell Air Dr - 99' WWC Stern Cir (S)	
204	37	50	2L	GTVLV			1' SNLL - 13' EWLL 828 Prow Ct	
301	74	50	6R	GTVLV			103' NNC Roeder Wy - 6' WWC Seamas Av	
302	75	50	6R	GTVLV			98' NNC Roeder Wy - 6' WWC Seamas Av	
303	28	50	8R	GTVLV			2' NSLL - On WLL 985 Roeder Wy	
304	27	50	8R	GTVLV			5' NNC Dorset Wy - 4' WELL 5401 Dorset Wy	
305	26	50	8R	GTVLV			9' NSC Dorset Wy - 105' EEC Seamas Av - 2' WELL 5400 Dorset Wy	
306	25	50	8R	GTVLV			1' NSLL - 2' EWLL 1010 Seamas Av	
307	23	50	6R	GTVLV			51' EWLL - 2' NSLL 629 Piedmont Dr	
308	117	50	8R	GTVLV			9' NNPL Seamas Av - 3' WELL 1037 Seamas Av	
309	16	50	6R	GTVLV			6' WELL - 2' NSLL 5601 Capstan Wy	
310	17	50	2L	GTVLV			On ELL - 36' NSLL 5605 Capstan Wy	
501	21	50	6R	GTVLV			6' NSLL - 1' WELL 838 Bell Air Dr	
502	20	50	6R	GTVLV			7' NSLL - 1' EWLL 908 Stern Cir	
601	18	50	4R	GTVLV			3' WELL - 1' NSLL 912 Bell Air Dr	
602	80	50	2AV	ARVLV			2' WWC Riverside Blvd - 6' SNLL 5615 Surf Wy	
603	24	50	4R	GTVLV			On SLL - 3' WELL 900 Bell Air Dr	
604	81	50	36BV	BTVLV	250		250 Turns - 27' EWC Riverside Blvd - 4' SNLL 5615 Surf Wy	
605	116	50	8R	GTVLV			8' WELL - 3' NSLL 5615 Surf Wy	
606	19	50	8R	GTVLV			11' NSLL - 1' EWLL 5634 Capstan Wy	
607	15	50	6R	GTVLV			12' NSC Capstan Wy - 97' WWC Surf Wy	
608	14	50	8R	GTVLV			7' WEC Riverside Blvd - 5' NNC Surf Wy	
901	103	50	8R	GTVLV			13' WEC Riverside Blvd - 3' NNC Surf Wy	
902	65	50	6R	GTVLV			3' NSLL 5700 Surf Wy - 112' SSC Capstan Wy - 7' WWC Surf Wy	
903	102	50	6R	GTVLV			15' WEC Riverside Blvd - On NC Surf Wy	
904	79	50	6BO	BLVLV			14' WEC Riverside Blvd - 68' NNC Surf Wy (No MH)	
905	97	50	6R	GTVLV			9' NSC 35th Av - 11' WEC Riverside Blvd	
906			6	SVVLV		FS	3' SNLL - 15' WWC of Surf Way (F/H)	

HYDRANTS								
New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
201	70	50	WH	WH	3R(3x2 1/2)	Use GV 74_75	Top of main	N side Piedmont Dr - across from 645 Piedmont Dr
202	17	50	WH	WH	4R(4x2 1/2)	1' W	102' E	5' WWC Piedmont Dr - 2' NSLL 645 Piedmont Dr
203	20	50	WH	WH	4R(4x2 1/2)	1' W	217' E	5' WWC Bell Air Dr - 800 Bell Air Dr
204	69	50	WH	WH	3R(3x2 1/2)	Use GV 74_75	Top of main	N side Piedmont Dr - across from 629 Piedmont Dr
205	13	50	PS	STD	PS5-4G	2' W	4' E	7' SSC Bell Air Dr - 1' WELL 838 Bell Air Dr
301	67	50	WH	WH	3R(3x2 1/2)	Use GV 74_75	Top of main	S side Seamas Av - across from 1001 Seamas Av
302	18	50	WH	WH	4R(4x2 1/2)	1' W	7' E	5' NNC Dorset wy - 2' EWLL 5406 Dorset Wy
303	68	50	WH	WH	3R(3x2 1/2)	Use GV 74_75	Top of main	N side Piedmont Dr - across from 617 Piedmont Dr
304	15	50	WH	WH	4R(4x2 1/2)	1' S	105' N	5' SSC - 2' EWLL 613 Piedmont Dr
305	8	50	PS	STD	PS5-4H	1' E	4' W	16' WEC Surf Wy (S) -6' NNC Seamas Av
306	11	50	WH	WH	4R(4x2 1/2)	1' N	2' S	6' EEC Capstan Wy - on NLL 5605 Capstan Wy
601	14	50	WH	WH	4R(4x2 1/2)	1' N	4' S	2' SNLL 945 Stern Cr
602	83	50	M	STD	M4-4 1/4 G	12 'S	14' N	W side Riverside Blvd - 222' SSC Seamas Av
603	10	50	WH	WH	4R(4x2 1/2)	1' E	107' W	3' NNLL 5629 Capstan Wy - 5' EEC Capstan Wy
604	9	50	WH	WH	4R(4x2 1/2)	1' E	122' W	5' EEC Surf Wy - 65' NNC Capstan Wy
605	55	50	MH	STD	MH2-4 1/2 G	5' W & 1' S	7' E	S side Capstan Wy - 1' EWLL 5654 Capstan Wy
901	60	50	R	STD	R2-4 1/2 H	25' E	29' W	W side Riverside Blvd - 2' SSLL 5720 Riverside Blvd

MM11


MM12
DEPARTMENT OF UTILITIES
Map Created 5/27/2012
MM11
LL12
NN12
MM13
WATER MAP 2012
CITY OF SACRAMENTO
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MM12
RIVERSIDE BLVD
DORSEY WAY
SAM BRANNAN MIDDLE SCHOOL
CABRILLO ELEMENTARY SCHOOL
JOHN CABRILLO ELEMENTARY
ELMER WAY
KAYLAR DR
NOONAN DR
LUCIO
NEVIS CT
SEAMAS AVE
JACKSON WAY
ROSEDALE WAY
LONGANIS DR
GREENRIDGE DR
DELCLIFF
CIR
85TH
WELL 10

VALVES

New ID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
101	55	50	8R	GTVLV			9' WWC - 1' SNLL 5484 Riverside Blvd	
102	67	50	2AV	ARVLV			15' SSC Sagamore - 2' EEC Riverside Blvd	
103	54	50	6R	GTVLV			6' SNLL - 3' EWC 5484 Riverside Blvd	
104	53	50	4R	GTVLV			12' WEC Roe Ct (N) - 112' SSC Dorset Wy	
105	108	50	6R	GTVLV			7' SNLL - 6' EWLL 5505 Dorset Wy	
106	115	50	6R	GTVLV			14' WWC Riverside Blvd - 3' NSLL - 5500 Riverside Blvd	
107	132	49	6R	GTVLV			6' SNLL 5517 Dorset Wy - 5' WWC Karbet Wy	
108	13	50	6R	GTVLV			4' NSLL 5508 Dorset Wy - 2' EWC Dorset Wy	
109	12	50	6R	GTVLV			1' SSLL 5508 Dorset Wy - 4' EWC Dorset Wy	
110	56	50	6R	GTVLV			2' SNLL - 1' WELL 1037 Seamas Av	
111	84	50	2AV	ARVLV			2' WWC Riverside Blvd - 20' NNC Seamas Av (W)	
112	77	49	6R	GTVLV			93' NNC Dorset Wy- 11' WEC Karbet Wy	
113	82	50	36BV	BTVLV	250		9' WEC Riverside Blvd - 14' NNC Seamas Av (W) (250 turns)	
201	87	49	6L	GTVLV			4' NSC - 5' WELL 5342 Karbet Wy	
202	85	49	6L	GTVLV			3' EWLL - 2' NSLL 5342 Karbet Wy	
203	86	49	2L	GTVLV			1' WELL - 2' NSLL 5342 Karbet Wy	
204			6	SVVLV			6' WEC - 34' SSC	
301			8R	GTVLV			15' WEC of Noonan Dr. - 8' SNC of Kaylar Dr.	
302			8R	BLVLV		BO	9' SNC of Kaylar Dr. - 9' EWPL of 1241 Kaylar Dr.	
401	83	50	18BV	BTVLV	47		47 Turns - 10' SNC Seamas Av - 116' EEC of southbound off ramp	
402	6	50	6L	GTVLV			4' WEL - On NLL 1117 Seamas Av	
403	93	50	2AV	ARVLV			2' NNC Seamas Av - 159' WWC Freeway on ramp	
404	76	49	6R	GTVLV			131' NNC Seamas Av - 9' WEC Karbet Wy - 73' SSC Dorset Wy	
405	100	50	6R(CLOSED)	GTVLV			17' SNC Seamas Av (closed) - 149' WWC Freeway on ramp	
406	7	50	4R	GTVLV			3' WELL - 3' SNLL 1117 Seamas Av	
407	95	50	2AV	ARVLV			3' NNC Seamas Av - 47' EEC Freeway on ramp	
408	101	50	6R	GTVLV			15' SNC Seamas Av - 51' EEC Freeway on ramp	
409	94	50	8R(CLOSED)	GTVLV			20' SNC Seamas Av - 34' WWC Freeway on ramp (closed)	
410	96	50	8R	GTVLV			9' SNC Seamas Av - 5' WEC Karbet Way	
411	110	50	6R	GTVLV			3' WELL - 9' NSLL 5601 Kingston Wy	
412	111	50	6R	GTVLV			1' WELL - 6' NSLL 5601 Kingston Wy	
413	11	50	4R	GTVLV			2' WELL 5641 Dorset Wy - 13' NNC Dorset Wy	
414			6R	GTVLV				
415			12L	GTVLV			15' SNC of Seamas Ave - 60' EEC of Freeway	1117 Seamas Ave
501	148	49	4R	SVVLV			4.5' WELL 5500 Parkfield - 1.5' NNC Parkfield	
502	102	49	6R	GTVLV			39' NSC Seamas Ave - 6' WEC Greenbrae Rd	
503	137	49	6R	GTVLV			2' NSC Seamas Av - 12' WEC Greenbrae Rd	
504	103	49	6R	GTVLV			2' NNC FruitridgeRd - 22' EWC Parkfield Ct	
505	138	49	6R	GTVLV			2' NNC Seamas Av - 14' EWC Parkfied Ct	
506	78	49	4L	GTVLV			5' WELL - 2' NSLL 5601 Rosedale Wy	
507	144	49	4R	GTVLV			12' NSC Seamas Av - 18' WEC Delcliff Dr	
508	79	49	4L	GTVLV			4' WELL - 3' NSLL 5601 Lonsdale Dr	
509	111	49	6R	GTVLV			8' NSC Seamas Av - 22' WEC Delcliff Cr	
603	106	49	2AV	ARVLV			34' NNC Fruitridge Rd - 4' EEPL of Canal	
604	91	49	6R	GTVLV			30' NNC Seamas Av - 18' EWC Danjac Cr	
605	142	49	6R	GTVLV			12' NNC Seamas Av - 15' WEC Danjac Cr	
606	105	49	18BV	BTVLV	17.5		17-1/2 Turns - 9' NNC Seamas Av - 142' EEPL 5521 Parkfield Ct (Buried)	
607	104	49	2AV	ARVLV			3' NNC Seamas Av - 56' EEC Danjac Cir.	
608	145	49	2BO	BLVLV			9' NSC Seamas Av - 66' EEC Delcliff Dr	
609			2BO	BLVLV		BO	10' EWC - 12' SNLL of 1200 Lucio Ln.	
610			2BO	BLVLV		BO	SLL of 1201 Nevis Ct. - 11' EWC of Nevis Ct.	
701	10	50	6R	GTVLV			1' SNLL - 3' WELL 5650 Dorset Wy	
702	104	50	8R	GTVLV			32' EWLL - 1' SNLL 1025 35th Av	
703	78	50	4R	SVVLV		IS	Irr Svc - 1' NNC Surf Wy - 2' EEC Riverside Blvd (metered)	
704	9	50	6L	GTVLV			2' WELL - 35' NSLL 5701 Dorset Wy	
706	8	50	6L	GTVLV			7' EWLL - 4' SNLL 5704 Rosedale Wy	
707	69	50	8R	GTVLV			On NPL - 27' EWLL 5721 Dorset Wy	
708	1	50	8R	GTVLV			5' EWLL - 4' SNLL 5708 Dorset Wy	
709	2	50	8R	GTVLV			3' EWLL - 8' SNLL 5708 Dorset Wy	
710	3	50	6R	GTVLV			6' EWLL - On SLL 5712 Dorset Wy	
711	98	50	6L	GTVLV			9' NSC 35th AV - 2' WWLL 1030 35th Av	
712	4	50	8R	GTVLV			31' NSLL - 1' WELL 1020 35th Av	
713	106	50	8R	GTVLV			5' NSLL - 9' EWLL 1020 35th Av	
714	5	50	8R	GTVLV			3' EWLL - 28' NSLL 1030 35th Av	
801	126	49	2WE	WHVLV			Service - 3' NSLL - 5' EEC 5609 Greenbrea Rd (for 5609_ 5615 Greenbrae Rd)	
802	1	51	6R	GTVLV			7' SNLL - 4' WELL 5709 Rosedale Wy - EEPL Rosedale Wy	
803	143	49	6R	GTVLV			16' NSC - 28' EWLL 5645 Delcliff Cr	
804	2	51	8R	GTVLV			2' WELL & 3' SNLL 1121 34th Av	
805	5	51	6R	GTVLV			2' NSLL & 1' EWLL 1124 34th Av - 113' SSPL 34th Av	
901	0	49	4	GTVLV			22' WWC - 6' SNC Driveway to Well 10	
902	0	49	4	SVVLV		DS	470' SSC Fruitridge Rd - 10' WWC S.L.P. Dr. - 50' N C/L underground walkway	
903	0	49	2	CKVLV				
904	139	49	2	SVVLV			2 inch Corp Cock - 102' EWPL & 10' NSPL Sump 119 (Sealing water to pumps)	
905	3	51	8R	GTVLV			3' NNLL & 2' WELL 5769 Gloria Dr (Access from sump 104)	
906	104	51	8R	GTVLV			13' EWLL #5700 (access gate NW Cor.) - 11' SNLL S Land Park Dr (S.L.P. Montessori School)	
907	4	51	8R	GTVLV			2' EELL & 1' SNLL 5769 Gloria Dr (Access from sump 104)	
908	10	51	6R	GTVLV			17' EWLL #5700 (access gate NW Cor.) - 9' SNLL 5700 SLPD (S.L.P. Montessori School)	
909			6	SVVLV			18' WWC - 3' SNC Driveway of well 10	

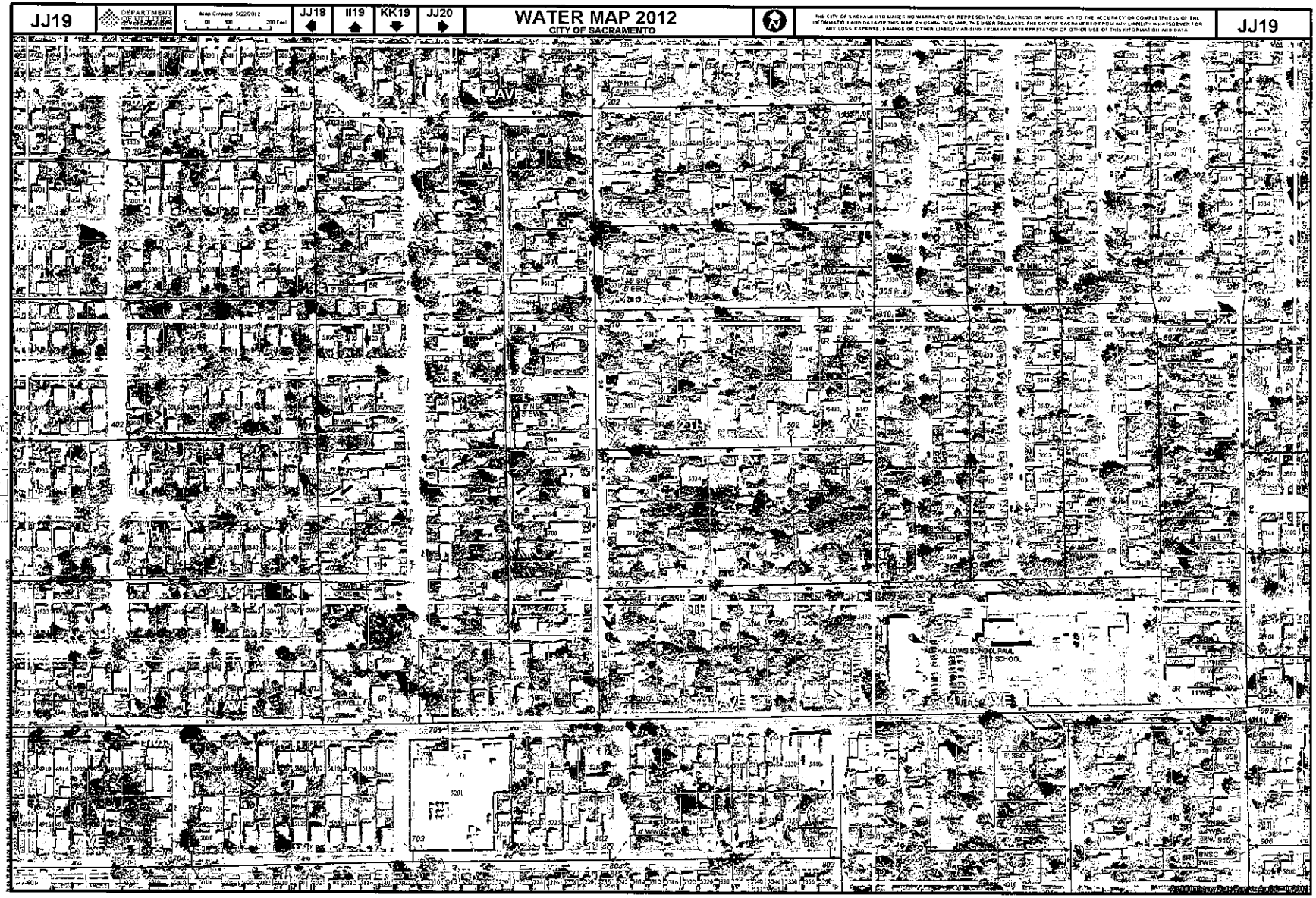
HYDRANTS

New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
		49		PRIV				
		49		PRIV				
		49		PRIV				
101	54	49	I	STD	I5-4H	10' W	120' E	W side Karbet Wy - on SLL 5324 Karbet Wy
102	28	50	PS	STD	PS5-4H	8' E	11' W	SW Cor Dorset Wy & Riverside Blvd
103	3	50	PS	STD	PS504H	3' W	6' E	NW Cor Dorset Wy & Dorset Wy

MM12

HYDRANTS								
New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
104	47	49	PS	STD	PS5-4H	3' N	6' S	W side Karbet Wy - on SLL 5528 Karbet Wy
105	64	50	M	STD	M4-4 1/4 G	1' W	4' E	W side Dorset Wy - 30' WWLL 5559 Dorset Wy
201	55	49	I	STD	I5-4H	3' W	129' E	W side Elmer Wy - on SLL 5318 Elmer Wy
301			AD	STD	B-84-B	18' E	19' W	
401	62	50	I	STD	I4-4 1/4-1/2H	12' S	14' N	1' EWLL 1121 Seamas Av
402	61	49	M	STD	M4-4 1/2 G	33' S	34' N	N side Seamas Av - 4' EWC Rosedale Wy
403	4	50	I	STD	I4-4 1/4-1/2H	4' E	92' W	E side Kingston Way - 5' NNLL 5605 Kingston Way
404	5	50	WH	WH	4R(4x2 1/2)	Use GV 10_11_	8T6p @8main	3' WELL Dorset Wy - 7' SSC Dorset Wy
501	50	49	W	STD	W1-5 1/4H	3' E		N End Park Field
502	62	49	M	STD	M4-4 1/2 G	18' S	19' N	N side Seamas Av - 45' WWC Lonsdale Dr
503	48	49	WH	WH	4R(4x2 1/2)			4' NSLL 1144 Seamas Av - 5' WWC Lonsdale Dr
504	49	49	WH	WH	4R(4x2 1/2)			5' WWC Greenbrae Rd - 3' NSLL 5600 Greenbrae Rd
505			M	STD		4' S	9' N	NE Cor. Seamas Ave & Parkfield
602	73	49	M	STD	M6-5 1/4 H	20' E	21' W	SW Cor. Danjac & Danjac
603	39	49	PS	STD	PS3-4G	17' S	21' N	N side Nevis Ct - WLL #1269
604	74	49	M	STD	M6-5 1/4 H	25' W	26' E	NE Cor Danjac Cr & Seamas Av
605			AD	STD	B-84-B	28' S	29' N	
701	1	50	G	STD	G6-4 1/2 H	5' N	8' S	W side Dorset Wy - 10' SNLL 5708 Dorset Wy
702	66	50	M	PRIV	M6-5 1/4 H	3' E	5' W	262' NNC 35th Av - on ELL 1025 35th Av
703	65	50	M	STD	M4-4 1/4 G	12' N	14' S	4' WWLL 1030 35th Av
704	2	50	G	STD	G6-4 1/2 H	100' N	103' S	N side 35thAv - on ELL 1071 35th Av
801	51	49	WH	WH	4R(4x2 1/2)			5' WWC Lonsdale Dr - 2' NSLL 5700 Lonsdale Dr
802	76	49	M	STD	M6-5 1/4 H	20' W	21' E	NE Cor Delcliff Cr & Delclif
803	1	51	G	STD	G6-4 1/2 H	114' N	117' S	N side 34th Av - WLL #1117
804	40	51	G	STD	G6-4 1/2 H	6' N	8' S	E side Lonsdale Dr bet 34th & 35th Avs - 6' SNLL #5741
805	2	51	G	STD	G6-4 1/2 H	110' S	113' N	S side 34th Av - 1136 34th Av - 2' WELL
901	75	49	M	STD	M6-5 1/4 H	20' S	21' N	NW Cor Delcliff Cr & Delclif
902	3	51	G	STD	G6-4 1/2 H	130' N in County	P162' S	N side 34th Av - on ELL 1161 34th Av
903	8	51	G	STD	G6-4 1/2 H	3' N	5' S	E side S Land Park Dr - 13' SNLL #5701

MM12


JJ19
DEPARTMENT OF UTILITIES
CITY OF SACRAMENTO
JJ18
II19
KK19
JJ20
WATER MAP 2012
CITY OF SACRAMENTO
JJ19
ALL HALLOWS SCHOOL PAUL SCHOOL

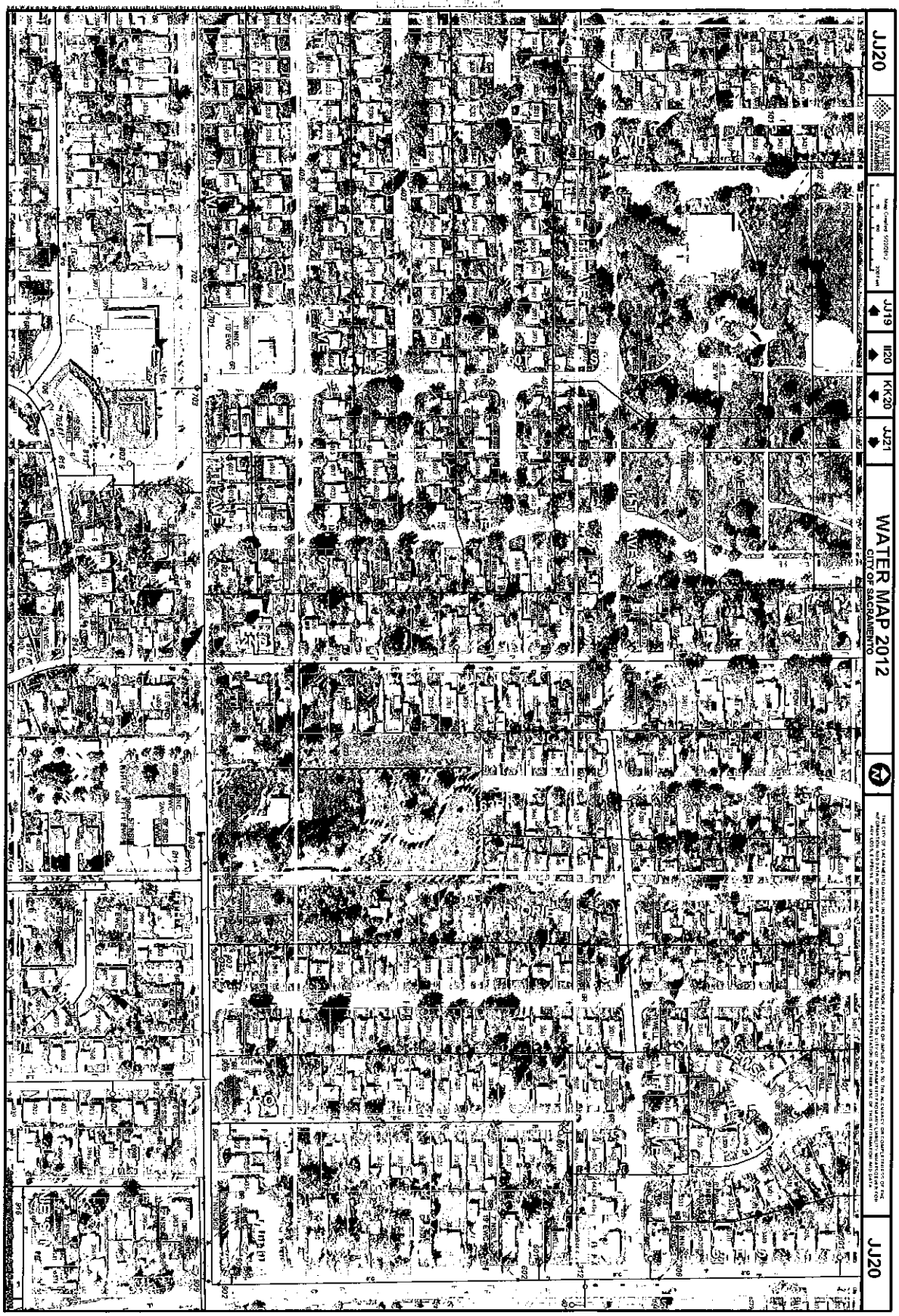
VALVES

New ID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
101	145	31	4R	GTVLV			4' NSLL - 7' WELL 5072 9th Ave	
102	146	31	6R	GTVLV			7' NSLL Alley (10th & 11th Aves.) - 3' WELL 5068 10th Ave	
103			6R	GTVLV			46' SSC - 3' WELL 5072 9th Ave	
201	20	30	6L	GTVLV			13' NSC 9th Ave. - 1' WELL 5440 9th Ave	
202	14	30	6R	GTVLV			5' NSC 9th Ave. (E) - 4' EEC 53rd St.	
203	13	30	6R	GTVLV			6' SNC 9th Ave. (W) - 5' WWC 53rd St.	
204	1	30	6R	GTVLV			11' SNC 9th Ave. - 5' EWPL Alley (52nd & 53rd Sts.)	
205	12	30	8R	GTVLV			2' SSC 9th Ave. (W) - 12' EWC 53rd St.	
206	21	30	4R	GTVLV			1' SNC 10th Ave. - 1' WELL 5440 10th Ave	
207	11	30	4R	GTVLV			2' SNC 10th Ave. - 5' EEC 53rd St.	
208	23	30	6L	GTVLV			17' SNC 11th Ave. - 3' WELL #5441	
209	10	30	6R	GTVLV			15' SNC 11th Ave. - 5' EEC 53rd St.	
210	9	30	8R	GTVLV			28' SSC 11th Ave. - 12' EWC 53rd St.	
301	43	30	8R	GTVLV			8' NNC 11th Ave. - 5' WELL #5701	
302	54	30	6R	GTVLV			8' NNC 11th Ave. - 1' WELL #5787	
303	33	30	6R	GTVLV			6' NNC 11th Ave. - 1' WELL #5611	
304	32	30	6R	GTVLV			6' NNC 11th Ave. - ON ELL #5501	
305	22	30	6R	GTVLV			5' NNC 11th Ave. - WLL #3550	
306	44	30	6R	GTVLV			17' SNC 11th Ave. - 6' WELL #5701	
307	31	30	6R	GTVLV			18' SNC 11th Ave. - 5' WWC 56th St.	
308	45	30	8R	GTVLV			6' SSC 11th Ave. - 4' WELL #5701	
309	64	30	6R	GTVLV			6' SSC 11th Ave. - 1' WELL #5611	
310	24	30	6R	GTVLV			5' SSC 11th Ave. - 1' EWLL #5482	
401	147	31	6R	GTVLV			8' WELL - 5' NSLL 5064 11th Ave. (in shed)	
402	148	31	6R	GTVLV			3' WELL - 7' NSLL 5072 12th Ave	
501	161	30	6R	GTVLV			7' SNC 11th Ave. - 2' EWPL Alley (52nd & 53rd Sts.)	
502	92	30	6R	GTVLV			5' NSC 11th Ave. - 5' EWPL Alley (52nd & 53rd Sts.)	
503	25	30	6R	GTVLV			14' SNPL 12th Ave. - 88' WWPL 55th St. - 6' NSLL & 1' EWLL 3664 55th St.	
504	8	30	6R	GTVLV			5' SNC 12th Ave. - 4' EEC 53rd St.	
505	8	30	8R	GTVLV			42' NNC 13th Ave. - 11' EWC 53rd St.	
506	28	30	6L	GTVLV			3' SNC 13th Ave. - 2' EWLL #5491	
507	5	30	4R	GTVLV			5' SNC 13th Ave. - 4' EEC 53rd St.	
601	30	30	6R	GTVLV			7' SSC 11th Ave. - 1' WELL #5528	
602	46	30	8R	GTVLV			15' SNLL - On ELL 3633 57th St	
603	53	30	6R	GTVLV			3' SNLL #3631 - 13' EWC 58th St.	
604	52	30	6R	GTVLV			3' NSLL #3701 - 11' WEC 58th St. - 3' NSLL 3701 58th St.	
605	26	30	6R	GTVLV			(Buried) 17' SNPL 12th Ave. - 86' WWPL 55th St. - 4' NSLL & 3' EWLL 3664 55th St.	
606	47	30	8L	GTVLV			7' NNC 13th Ave. - 13' WELL #3701	
607	51	30	6R	GTVLV			5' NSLL #3741 - 6' EEC 58th St. - 4' NSLL 3741 58th St.	
608	257	30	6R	GTVLV			8' NNC 13th Ave & 2' WELL 5501 13th Ave	
609	149	30	6R	GTVLV			5' NNC 13th Ave. - WLL #5691	
610	27	30	6R	GTVLV			6' NNC 13th Ave. - 4' EWLL #5491	
701	150	31	4R	GTVLV			8' NNC 14th Ave. - 5' EWC 52nd St.	
702	149	31	6R	GTVLV			6' NSLL - 4' WELL 5072 13th Ave	
703	224	31	6BO	BLVLV			19' EWLL 4901 14th Ave - 6' NSC 14th Ave. - BO is 3' E of GV	
704	221	31	8L	GTVLV			3' SNC 15th Ave. - 15' WWC 50th St.	
801	4	30	8R	GTVLV			10' NNC 14th Ave. - 10' EWC 53rd St.	
802	3	30	8R	GTVLV			12' SNC 14th Ave. - 4' EEC 53rd St.	
803	209	30	6L	GTVLV			8' SNC 15th Ave. - 4' WWC 55th St.	
804	210	30	6L	GTVLV			4' WWC 53rd St. - 6' SNC 15th Ave.	
901	50	30	6R	GTVLV			5' SNLL 3831 58th St. - 6' EEC 58th St	
902	49	30	6R	GTVLV			11' NNC 14th Ave. - 6' WEC 58th St.	
903	48	30	8R	GTVLV			4' SNC 14th Ave. - 7' EEC 58th St. (N)	
905	215	30	6L	GTVLV			8' SSC 14th Ave. - 7' EWC 57th St.	
906			6R	GTVLV				
907	214	30	3L	GTVLV			7' WWC - 6' NSLL 3962 57th St.	
908			8R	GTVLV				
909			8R	GTVLV				
910			8R	GTVLV				

HYDRANTS

New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
101	3	30	I	STD	13B-5 1/4E	6' S(Buried)	12' N	N side 9th Ave. on 52nd St. - in front of #5139
102	79	31	C	STD	C8B-5F	5' S	13' N	NE Cor 50th St. & Alley (9th & 10th Avs.)
103	80	31	C	STD	C7B-5E	5' S	10' N	NW Cor 50th St. & Alley (10th & 11th Av.)
201	8	30	C	STD	C8B-5F	4' E	12' W	NW cor. 53rd St. & 9th Ave.
202	11	30	I	STD	I3B-5 1/4E	No Gate	14' S	S side 9th Ave. - 500' EEPL 53rd St. - 5' WELL #5400
203	12	30	AD	STD	AD6-5 1/4H	7' S & 5' E	7' N	211' EEC of 53rd St - 5' NNC of 10th Ave
204	13	30	C	STD	C8B-5F	7' N	18' S	S side 11th Ave. - 400' EEPL 53rd St. - 1' WELL #5352
301	17	30	I	STD	I1B-4 1/4E	2' W	3' E	S side Sierra View Way btwn 56th & 57th Sts.
302	21	30	I	STD	I1B-4 1/4E	84' E	86' W	E side Sophia Way btwn 9th & 11th Aves. - 2' NSLL #3501
303	56	30	G	STD	G8-4 1/2H	3' W	5' E	N side 11th Ave. btwn 57th & 58th Sts. (S) - On WLL #5777
304	16	30	I	STD	I1B-4 1/4E	4' W	7' E	S side 11th Ave. btwn 55th & 56th Sts. - 7' EWLL #5528
401	4	30	I	STD	13B-5 1/4E	Use GV 181		NE cor. 52nd St. & 11th Ave.
402	81	31	C	STD	C8B-5F	5' S	15' N	NE Cor 50th St. & Alley (11th & 12th Avs.)
403	82	31	C	STD	C7B-5E	5' S	11' N	NE Cor 50th St. & Alley (12th & 13th Avs.)
501	7	30	C	STD	C7B-5E	6' E & 29'S of Hyd	19' W	W side 53rd St. - 3532 53rd St. (RO105605)
502	91	30	AD	STD	AD1-4 1/2H	11' S	13' N	ELL 5421 12th Ave. - 1' NNPL 12th Ave.
503	6	30	C	STD	C7B-5E	29' S & 6' E	18' W	W side 53rd St. - 2' SNLL 3640 53rd St
504	14	30	I	STD	I3B-5 1/4E	No Gate	9' N	N side 13th Ave. - 350' EEPL 53rd St. - 1' WELL #5369
601	25	30	I	STD	I1B-4 1/4E	3' S	5' N	E side 58th St. btwn 12th Ave. & Raymond Way - 6' NSLL #3701
602	15	30	I	STD	I1B-4 1/4E	2' W	5' E	N side 13th Ave. - 2' EELL #5501 55th St.
603	26	30	I	STD	I1B-4 1/4E	3' W	5' E	NW cor. 13th Ave. & Alley (57th & 58th Sts.) - 9' WELL #5701
701	5	30	C	STD	C7B-5E	15' S	18' N	NE cor. 52nd St. & 14th Ave.
702	107	31	D	STD	D1-4 1/2H	17' S	19' N	On ELL 4956 14th Av.
703	89	30	D	STD	D1-4 1/2H	5' S	8' N	NE cor. 52nd St. & 15th Ave. (RO106737)
704	105	31	D	STD	D1-4 1/2H	7' S	9' N	NE Cor 50th St. & 15th Av.

JJ19


JJ20
JJ19
II20
KK20
JJ21
WATER MAP 2012
CITY OF SACRAMENTO
JJ20

VALVES

New ID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
101	71	30	6R	GTVLV			(Buried) 517' NSC 11th Ave. - 115' EWC 60th St. (3' N Cross)	
102	66	30	6R(CLOSED)	GTVLV			12' SNLL 3421 David Way - 3' EEC 59th St (Clsd)	
103	143	30	6R	GTVLV			(Buried) 4' S of N Fence - 30' W of W Fence of Well Enclosure	
104	72	30	4R	GTVLV			(Buried) 235' S Cross - 115' EWC 60th St. (Park Gate)	
105	144	30	6R(CLOSED)	GTVLV			5' NNC 11th Ave. - 27' EEC 60th St. (S) (Closed)	
201	98	30	6R	GTVLV			(Buried) 478' SSPL 8th Ave. - on ROW btwn 62nd & 63rd Sts. - 4' NSLL & 4' EWLL 3448 63rd St.	
202	106	30	6R	GTVLV			106' SSPL 9th Ave. - 107' WWPL Marjorie Way - 1' SNLL & 2' WELL 3447 63rd St.	
203	108	30	6R	GTVLV			2' NSLL - 2' WELL 6301 11th Ave	
204	97	30	6R	GTVLV			3' EWLL - 8' NSLL 3582 63rd St.	
205	91	30	6R	GTVLV			3' SNC 11th Ave. - 11' EWC 62nd St.	
206	110	30	6R	GTVLV			9' SSC 11th Ave. - 2' EWLL #3600	
207	96	30	6R	GTVLV			13' SSC 11th Ave. - 5' EWLL #3600	
301	2	30	1.5L	SVVLV			4' NSLL & 1' EWLL 3410 Kroy Way	
302	105	30	6R	GTVLV			9' North of hydrant 303 - 12' WEC Marjorie Way	
303	107	30	6R	GTVLV			1' SNLL - 1' EWLL 3447 Marjorie Way	
304	172	30	6R	GTVLV			6' NSLL #3540 - 1' EWLL 3450 Newson Ct.	
305	173	30	6R	GTVLV			2' NSLL #3531 Kroy Way - 5' WEC Kroy Way	
306	127	30	8R	GTVLV			26' NNC 11th Ave. (W) - 20' EWC 65th St. (N)	
307	174	30	6R	GTVLV			4' NSLL 3531 Kroy Way - 7' WEC Kroy Way	
308	117	30	6R	GTVLV			12' NNC 11th Ave. - 7' WELL #3583	
309	109	30	6R	GTVLV			10' NNC 11th Ave. - 2' WELL #6351	
310	116	30	6R	GTVLV			10' SSC 11th Ave. - 106' EEC 64th St.	
311	111	30	6R	GTVLV			12' SSC 11th Ave. - 107' WWPL 64th St.	
312	227	30	6	SVVLV		DS	Domestic Service - 22' EWC 65th St. - 40' NSLL 3802 65th St. - Tap to Hiram Johnson H.S.	
313			6R	GTVLV			8' EWC of Kroy Way - 5' NSPL of 3520 Kroy Way	
314			2BO	BLVLV		BO	9' EWC of Kroy Way - 36' SSC of Newson Ct.	
401	65	30	6R	GTVLV			79' SSC 11th Ave. - 90' EEC David Way - 7' NSLL & 3' WELL 5834 11th Ave.	
402	62	30	6R	GTVLV			81' SSC 11th Ave. - 193' EEC 58th St. - 8' NSLL & 2' WELL 5808 11th Ave.	
403	73	30	6R	GTVLV			6' NSLL 6000 11th Ave. - 4' WEC 60th St.	
404	63	30	6R	GTVLV			82' SSC 11th Ave. - 87' EEC David Way - 4' NSLL & 6' WELL 5834 11th Ave.	
405	74	30	6R	GTVLV			3' NSLL 6000 11th Ave. - 6' EEC 60th St.	
406	75	30	6R	GTVLV			104' SSC 12th Ave. - 1' EEPL 60th St. - 3' NSLL & 6' EEC 3701 60t6'h St.	
407	76	30	6R	GTVLV			107' NNC 13th Ave. - 6' EEC 60th St. - 3' NSLL 3719 60th St.	
501	84	30	6R	GTVLV			84' NNC 12th Ave.-144' EEC 61st St. - (3' W Tee) - 3' SNLL & 6' WELL 3615 61st St.	
502	83	30	6R	GTVLV			95' SSC 12th Ave. (W) - 107' EEC 61st St. - 3' NSLL & 8' WELL 3703 61st St.	
503	82	30	6R	GTVLV			90' NNC 13th Ave. (W) - 109' EEC 61st St. - 1' NSLL & 4' WELL 3723 61st St.	
601	176	30	6	GTVLV			16' NSLL & 17' EWC 3826 65th St. (Buried)	
602	128	30	8R	GTVLV			2119' SNPL Broadway - 19' EWC 65th St. (N) - 7' NSLL 3826 65th St.	
701	77	30	6R	GTVLV			1' NNC 14th Ave. - 10' EWC Alley (58th & 60th Sts.)	
702	78	30	8R	GTVLV			7' SNC 14th Ave. - 96' WWPL Alley (58th & 60th Sts.) 12' EWLL 5961 14th Ave.	
703	154	30	8R	SVVLV		FS	Fire Svc - 14' SNPL 14th Ave. - 10' WEPL 60th St. (N) 5984 - 14th Ave. - 5' WEC - 10' SNC	5986 14th Ave
704	226	30	6R	GTVLV			4' NSC 15th Ave. - 19' EWLL 5944 15th Ave.	
705	235	30	6	GTVLV			19' SNC 60th St. - 78' EEC 15th Ave. - 40' WELL 4001 60th St.	
706	225	30	6R	GTVLV			6' WWC 60th St. - 5' SNC 15th Ave.	
801	81	30	6R	GTVLV			93' SSC 13th Ave. - (W) 107' EEC 61st St. - 3' NSLL & 6' WELL 3805 61st St.	
802	93	30	6R	GTVLV			3' SNC 14th Ave. - 11' EWC 62nd St.	
803	79	30	6R	GTVLV			4' SNC 14th Ave. - 14' WEPL Alley (60th & 61st Sts.)	
804	80	30	6R	GTVLV			4' SNC 14th Ave. - 5' WELL #6101	
805	185	30	10R	GTVLV			10' SNC 14th Ave. - 56' WWC 63rd St.	
806	95	30	8R	GTVLV			6' SNC 14th Ave. - 11' EEC 62nd St.	
807	94	30	8R	GTVLV			6' SNC 14th Ave. - 3' WWC 62nd St.	
808	184	30	42BV	BTVLV	97.5		(Buried) 97-1/2 turns - 13' SNC 14th Ave. - 59' WWC 63rd St.	
809	193	30	8R	GTVLV			9' SNC 14th Ave. - 13' EEC 60th St.	
810	148	30	6	GTVLV			8' SNC 14th Ave. - 15' EWC 62nd St.	
811	183	30	2AV	ARVLV			69' SSC 14th Ave. - 1' WWC 63rd St.	
812	238	30	6	GTVLV			17' WEC 60th St. - 6' South of hydrant 803	
813	236	30	4	SVVLV			17' EWC 60th St. - 20' S of Hyd 803 - 3919 60th St.	3919 60th St
814	150	30	6	GTVLV			17' WEC 62nd St. - 14' NSC 15th Ave.	
815	163	30	6	GTVLV			16' WEC 62nd Ave. - 13' NSC 15th Ave.	
816	237	30	6	GTVLV			13' NSC 15th Ave. - 18' WEC 60th St.	
817	164	30	6	GTVLV			15' WEC 62nd Ave. - 7' SNLL 4021 62nd Ave.	
901	186	30	6BO	BLVLV			9' SNC 14th Ave. - 4' WEC 63rd St. (S) - M. H. is 12' N of G. V.	
902	129	30	8R	GTVLV			8' NNC 14th Ave. - 1' WWC 65th St.	
903	112	30	6R	GTVLV			4' SNC 14th Ave. - 2' WWLL #6325	
904	115	30	6R	GTVLV			3' SNC 14th Ave. - 8' WEC Kroy Way	
905	114	30	6R	GTVLV			6' NNC 14th Ave. - 3' WELL #6403	
907	113	30	8R	GTVLV			7' SNC 14th Ave. - 41' EEC 64th St.	
908	187	30	2AV	ARVLV			136' WWC 65th St. - 1' NNC 14th Ave.	
909	188	30	10R	GTVLV			9' SNC 14th Ave. - 3' WWC 65th St.	
910	153	30	6R	GTVLV			12' NSC 14th Ave. - 12' EWC 65th St. (S)	
911	182	30	6R	GTVLV			9' SNC 14th Ave. - 16' EWC Fotos Ct.	
912	180	30	6R	GTVLV			25' SSC 14th Ave. - 16' EWC Fotos Ct.	
913	190	30	36BV	BTVLV	97.5		97-1/2 turns - 57' NSLL #3901 - 1' EWC 63rd St.	
914	191	30	6R	GTVLV			42' NSLL #3901 - 7' EWC 63rd St.	
915	223	30	6R	GTVLV			15' SNC - 13' EWC 63rd St.	
916	178	30	6R	GTVLV			12' EWC 65th St. - 13' SNC Nielson Way (E)	

HYDRANTS

New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
101	23	30	I	STD	I1B-4 1/4E	93W-1' NSLL & 2'WELL of 3501 58th St	30' W	W side David Way btwn 9th & 11th Aves. - NLL #3529
102	22	30	I	STD	I1B-4 1/4E	83'E-1' NSLL 350	55'W	E side 58th St. btwn 9th & 11th Aves. - NLL #3519
103	24	30	I	STD	I1B-4 1/4E	3' W	3' E	S side 11th Ave. btwn 58th St. & David Way
201	43	30	I	STD	I1B-4 1/4E	3' E	102' W	E side 63rd St. btwn 9th & 11th Aves. - 1' NNLL #3447
202	57	30	I	STD	I1B-4 1/4E	11' E	15' W	251' NNC 11th Ave. - WPL 62nd St. - 1' NSLL #3400
203	46	30	I	STD	I1B-4 1/4E	11' S	13' N	NE cor. 63rd St. & 11th Ave.
301	68	30	G	STD	G6-4 1/2H	21' E	25' W	W side 66th St. - 41' SSC 9th Ave. (E) - 4' SNLL #3410
302	45	30	C	STD	C4B-4G	4' W	104' E	W side 64th St. btwn 9th & 11th Aves.

JJ20

HYDRANTS								
New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
303	44	30	I	STD	I1B-4 1/4E	2' N	3' S	E side Marjorie Way btwn 9th & 11th Aves. - 2' SNLL #3447
304	69	30	G	STD	G6-4 1/2H	5' N	7' S	W side Kroy Way - 100' NNC 11th Ave. - 2' SSLL #3520
305	70	30	I	STD	I3B-5 1/4E	22' E	35' W	W side 65th St. - 37' NNC 11th Ave.
306	47	30	I	STD	I1B-4 1/4E	2' W	3' E	S side 11th Ave. btwn Marjorie Way & 64th St.
401	35	30	I	STD	I1B-4 1/4E	3' S	5' N	W side 60th St. btwn 11th & 12th Aves.
402	31	30	I	STD	I1B-4 1/4E	96' N	88' S	N side 12th Ave. btwn 58th & 60th Sts.
403	30	30	I	STD	I1B-4 1/4E	101'N-1'SNLL &3'WELL5937 Raymond Way		W side Raymond Way - 439' WWC 60th St. - 4' WELL #5937
404	36	30	I	STD	I1B-4 1/4E	3' N	5' S	W side 60th St. btwn Raymond Way & 13th Ave
405	29	30	I	STD	I1B-4 1/4E	99'N-3' NSLL &1'WELL5936		N side 13th Ave. - 5937 - 13th Ave. - ELL
501	59	30	PS	STD	PS1B-4E	3' S	5' N	W side 61st St. btwn 11th & 12th Aves.
502	55	30	WH	WH	3R(3x2 1/2)	Use GV 96	EOM	4' EWLL - 1' NSLL 3682 63rd St.
503	63	30	WH	WH	3R(3x2 1/2)	Use GV 110	EOM	4' NSLL - 1' WELL 3689 63rd St.
504	58	30	I	STD	I1B-4 1/4E	11' E	15' W	SLL 3650 62nd St
505	37	30	PS	STD	PS1B-4E	3' N	5' S	W side 61st St. btwn Raymond Way & 13th Ave.
601	62	30	G	STD	G6-4 1/2H	4' N	7' S	E side Kroy Way - 4' SNLL # 3781
701	28	30	I	STD	I1B-4 1/4E	7' E	11' W	NW cor. 14th Ave. & Alley (58th & 60th Sts.) - ELL #5967
702	86	30	I	STD	I1B-4 1/4E	30' S	33' N	N side 15th Ave. - ELL 5941 15th Ave.
703	81	30	WH	WH	3R(3x2 1/2)	6' N	10' S	24' EWLL 5924 - 15th Ave.
801	60	30	M	STD	M6-5 1/4H	10' S	14' N	N side 14th Ave. btwn 62nd & 64th Sts. - 3' EELL #6223
802	38	30	PS	STD	PS1B-4E	9' E	11' W	N side 14th Ave. btwn 61st & 62nd Sts. - 10' WELL #6101
803	19	30	W	STD	W1-5 1/4H	4' N	3' W & 5'S	127' NNC 15th Ave. - 6' EEC 60th St. - 3' NSLL #3919
804	93	30	W	STD	W1-5 1/4H	20' W	22' E	E side 62nd St. - 119' SSC 14th Ave. - 1' NSLL #3911
901	54	30	I	STD	I3B-5 1/4E	7' E	9' W	NW cor. 65th St. & 14th Ave. (RO111623)
902	49	30	I	STD	I1B-4 1/4E	11' W	14' E	E side Kroy Way - 139' NNC 14th Ave - 4' SNLL #3865
903	49	30	R	STD	R1-4E	3' W	5' E	6' NNC 14th Ave. btwn 62nd & 64th Sts. - 3' EWLL #6325
904	84	30	MH	STD	MH2-4 1/2H	20' W	22' E	E side Fotos Ct. - 1' SNLL 3913 Fotos Ct.
905	83	30	M	STD	M4-4 1/4G	18' W	EOM	NLL 3975 63rd St.

JJ20

APPENDIX B

Notification Letters

Constructing Water Main [Distribute 7 working day prior to beginning work]

(CITY LETTER HEAD)

Dear Resident,

The City of Sacramento, Department of Utilities, awarded a construction contract to (Contractor) to replace the water distribution main and water services in your neighborhood. A new water main will be constructed in the street and water services will be constructed from the new main to each home. Also, new fire hydrants will be constructed to improve fire protection in your neighborhood.

During the course of construction, on street parking may be temporarily removed to accommodate traffic and construction work. Access to your driveway may be temporarily restricted when construction takes place in front of your house. At the end of each work day, we will backfill the trench, place temporary paving or place steel plates over trench, and open all lanes of traffic to the public. Our work hours are typically between 7 AM to 6 PM.

General public and construction crew safety is of primary concern to us and we encourage you to observe the construction signs. We realize this construction project may be a temporary inconvenience and we will strive to minimize the impacts to the residents.

If you have any questions or problems, please contact any one of the project representatives listed below:

Contractor Superintendent: Name: Phone Number
City Inspector: Name: Phone Number
City Project Manager: Name: Phone Number

Pipeline work is scheduled to begin in your neighborhood on
_____.

Once the pipeline is constructed, we will return to your street to install the water service to each home, disinfect and pressure test the pipelines and restore paving and landscaping. The anticipated project completion date is _____.

Thank you for your cooperation on this very important project.

Constructing Water Main: [Distribute 24 hours prior to beginning work]

(CITY LETTER HEAD)

Dear Resident,

The City of Sacramento, Department of Utilities has commenced with the water main replacement project for your neighborhood. A Contractor may need to access your property to collect data to help the city determine pipe size and connection location. The Contractor may need to access your back yard as part of the data collection process. Please provide access to your backyard and make arrangements for any pets that may be a problem. **If special arrangements are required, please contact (Contractor Superintendent) at (phone number) or a project representative listed below.**

City Inspector: Name: Phone Number
City Project Manager: Name: Phone Number

Thank you for your cooperation on this very important project.

Transferring Water Services: [Distribute 7 working day prior to beginning work]

(CITY LETTER HEAD)

Dear Resident,

(Contractor) has completed construction of the water main in your neighborhood. The next phase of our work requires connecting your new water service to your house plumbing.

Your water service will be temporary shut-off for a short period of time between the hours of 7:30 AM and 3:30 PM. This work is currently scheduled for

_____

We will need access to your backyard to complete this work. Please provide access to your backyard and make arrangements for any pets that may be a problem. **If special arrangements are required, please contact (Contractor Superintendent) at (phone number) or a project representative listed below.**

City Inspector: Name: Phone Number
City Project Manager: Name: Phone Number

Thank you for your cooperation on this very important project.

Transferring Water Services: [Distribute 24 hours prior to beginning work]

(CITY LETTER HEAD)

Dear Resident,

Your water service will be temporary shut-off tomorrow for a short period of time between the hours of 7:30 AM and 3:30 PM.

We will need access to your backyard to complete this work. Please provide access to your backyard and make arrangements for any pets that may be a problem. **If special arrangements are required, please contact (Contractor Superintendent) at (phone number) or a project representative listed below.**

City Inspector: Name: Phone Number
City Project Manager: Name: Phone Number

Thank you for your cooperation on this very important project.

City of Sacramento Department of Utilities

IMPORTANT NOTICE
ABOUT YOUR METER LOCATION

Dear Neighbor:

The City of Sacramento Department of Utilities will soon begin the installation of your new water service. The Contractor will install a copper water service from the new water main in the street up to your house and connect to the nearest 3/4" hose bib. The Contractor will also install a meter box where the water service crosses your property line. The meter box's are 28" long and 18" wide and are constructed of concrete. The proposed location of the meter box has been marked with a stake in your front yard, based on where the City will connect to your house. Please review the proposed location of your meter box and if you have any questions regarding the proposed location, please call within two days of receiving this notice:

City of Sacramento: City Inspector or Project Manager at 916-808-5454.

As always, our goal is to provide city residents and businesses with safe, reliable and environmentally-sensitive water, drainage, sewer and solid waste services.

CALL · Hablamos español · Мы говорим по русски · Peb hais lus Hmoob · Chúng tôi nói tiếng Việt

CITY OF SACRAMENTO DEPARTMENT OF UTILITIES

APPENDIX C

Traffic Alert Form

TRAFFIC ALERT REQUEST

This request will provide the Department of Transportation (DOT) with the facts it needs to determine whether a traffic alert is needed. A traffic alert is warranted when traffic and/or pedestrian impacts related to construction activities are anticipated.

The alert is sent out to the local news media and to City Council, the City Manager's Office and DOT managers. Issuance of a traffic alert does not relieve the requestor of direct communication with the contiguous or adjacent businesses and residents.

Advance notification is necessary to provide DOT with ample time to consider whether a traffic alert is necessary, draft and obtain approval on copy and provide the news media with sufficient notice to consider running the announcement. **Therefore, the traffic alert must be submitted to Linda Tucker, Media and Communication Specialist with DOT, at least ten days prior to scheduled work.**

DATE BIDS DUE:

DATE OF AWARD:

WHO (Project Name and PM Name):

WHAT:

WHERE:

WHEN (CONSTRUCTION START AND END DATE):

WHY:

IMPACT:
(Please indicate what roads, or lanes of roads, require closure, the streets between what blocks to be closed and any other impacts anticipated such as dust, noise and heavy equipment.

CONTACT:

APPENDIX D

Example Source Document Spreadsheet

NO.	DATE PAID	APN	METER NO.	STREET NO.	STREET NAME	METER LOCATION	METER MANUFACTURER	METER SIZE	(E) SERVICE SIZE	(E) SERVICE MATERIAL	ADD	DEL	BID ITEMS	TOTAL SF CONCRETE	EXTRA CONCRETE	ADDITIONAL COMMENTS

EXAMPLE

APPENDIX E

Site Service Survey Forms
Little Pocket

Available on CD upon request

APPENDIX F

Site Service Survey Forms
Tahoe Park

Available on CD upon request