

# City of San Diego

CONTRACTOR'S NAME: Orion Construction/Balboa Construction JV  
ADDRESS: 2185 La Mirada Drive, Vista, CA 92081  
TELEPHONE NO.: (760) 597-9660 x305 FAX NO.: (760) 597-9661  
CITY CONTACT: Juan E. Espindola, Contract Specialist, Email: JEEspindola@sandiego.gov  
Phone No. (619) 533-4491, Fax No. (619) 533-3633  
M. Ashrafzadeh / A. Jaro / LJI

## PROPOSAL DOCUMENTS



**ORIGINAL**



**FOR  
MACC TASK NUMBER: 07**

## **16 INCH AND LARGER CI WATER MAIN AND SEWER REPLACEMENT GROUP A**

RFQ NO.: 1293  
RFP NO.: K-17-1556-MAC-3  
SAP NO. (WBS/IO/CC): B-15134, B-17059  
CLIENT DEPARTMENT: 2000  
COUNCIL DISTRICT: 1, 2, 3, 4, 6, 7  
PROJECT TYPE: KB, JA

### **THIS CONTRACT IS SUBJECT TO THE FOLLOWING:**

- PHASED-FUNDING
- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE  FEDERAL
- APPRENTICESHIP

### **PROPOSALS DUE:**

**12:00 NOON**

**MAY 10, 2017**

**CITY OF SAN DIEGO**

**PUBLIC WORKS CONTRACTS**

**1010 SECOND AVENUE, 14<sup>th</sup> FLOOR, MS 614C**

**SAN DIEGO, CA 92101**

**ATTN: CONTRACT SPECIALIST**

**TABLE OF CONTENTS**

<b>SECTION</b>	<b>PAGE NUMBER</b>
1. INTRODUCTION.....	3
2. SUMMARY OF WORK .....	3
3. COMPETITION.....	3
4. PROPOSAL DUE DATE AND TIME.....	3
5. ESTIMATED PROJECT COST .....	3
6. LICENSE REQUIREMENT .....	4
7. CONTRACT PERIOD .....	4
8. PREVAILING WAGE .....	4
9. PHASED FUNDING PROVISIONS .....	4
10. EQUAL OPPORTUNITY CONTRACTING.....	4
11. CONTRACTOR LICENSE AND PREQUALIFICATION STATUS .....	5
12. SELECTION AND AWARD SCHEDULE.....	5
13. PRE-PROPOSAL MEETING .....	5
14. INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS .....	6
 <b>ATTACHMENTS</b>	
A. PROJECT DESCRIPTION, SCOPE OF WORK, TECHNICAL SPECIFICATIONS, AND BRIDGING DOCUMENTS .....	19
B. PHASED FUNDING PROVISIONS .....	63
C. INTENTIONALLY LEFT BLANK .....	66
D. PREVAILING WAGES.....	67
E. SUPPLEMENTARY SPECIAL PROVISIONS.....	71
1. Appendix A – Notice of Exemptions.....	94
2. Appendix B - Fire Hydrant Meter Program .....	97
3. Appendix C - Materials Typically Accepted by Certificate of Compliance .....	111
4. Appendix D - Sample City Invoice.....	113
5. Appendix E - Location Map.....	115
6. Appendix F - Adjacent Projects .....	124
7. Appendix G - Sample of Public Notice .....	132
8. Appendix H - Hazardous Forms/Label.....	134
9. Appendix I – Advanced Metering Infrastructure (AMI) Device Protection .....	140
F. INTENTIONALLY LEFT BLANK .....	147
G. EVALUATION AND SELECTION CRITERIA.....	148
H. PRICE FORMS.....	154
I. CERTIFICATIONS AND FORMS .....	160
J. MACC TASK ORDER DESIGN-BUILD AGREEMENT .....	175

# REQUEST FOR PROPOSAL

## 1. INTRODUCTION

- 1.1. This is the City of San Diego's (City) second step in the two-step solicitation process to acquire Design-Build services for the **16 Inch and Larger CI Water Main and Sewer Replacement Group A ( MACC Task number 07 )** Design-Build project.
- 1.2. Pursuant to the City's Request for Qualifications (RFQ) 1293, this RFP is being issued exclusively to the previously selected firms who have each been awarded a Multiple Award Construction Contract (MACC) with the City.
- 1.3. All MACC awardees are to submit a responsive good-faith Proposal for this Task Order. Failure to do so may result in the City's rescinding the award of the MACC contract. MACC awardees who fail to submit Proposals twice in twelve month period may have their MACC contract rescinded and be ineligible to submit future proposals.
- 1.4. Failure to submit all requested information in accordance with the requirements of the RFP may be cause for disqualification.

**2. SUMMARY OF WORK:** This is the City solicitation process to acquire Design-Build services for a Design-Build project to replace in-place and abandonment of water and sewer mains at 7 locations throughout the City (see Location Maps). Approximately 6,799 linear feet (LF) of existing 8-, 10-, 12-, 16-, and 18-inch cast iron (CI) and asbestos cement (AC) water pipes will be replaced with new polyvinyl chloride (PVC) pipe within their existing alignment at the same or shallower depths. Approximately 296 LF of existing water main will be abandoned (by slurry fill). The project also includes the replacement (in-place) of approximately 1,360 LF of existing 6, 8, 12, and 15-inch concrete pipe (CP) and vitrified clay (VC) sewer pipe at the same or shallower depth with new PVC pipe. This project may also include the following improvements: installation of curb ramps, fire hydrants, valves, air valves, blow offs, water boxes, laterals, manholes, cleanouts, street resurfacing, etc. The proposed project spans multiple neighborhoods, council districts, and community planning areas. The project will avoid sensitive resources and, specifically, the portion of the Moraga Avenue (from Garnet Avenue extending south to Mount Lawrence Drive) segment will be installed via trenchless construction methods to avoid any impacts to sensitive vegetation. This includes outreaching to the various communities and acquiring all permits.

**3. COMPETITION:** This RFP is being issued only to the shortlisted contractors pursuant to RFQ 1293.

**4. PROPOSAL DUE DATE AND TIME ARE: May 10, 2017 at 12:00 Noon.**

**5. ESTIMATED PROJECT COST:** The City's estimated cost for this project is **\$3,230,000.**

**6. LICENSE REQUIREMENT:** The City has determined that the following licensing classifications are required for this contract: **A or C34.**

- 7. **CONTRACT PERIOD:** Project shall be completed within **600 Working Days** from the Notice to Proceed (NTP).
- 8. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.
- 9. **PHASED FUNDING:** For Phased Funding Conditions, see Attachment B.
- 10. **EQUAL OPPORTUNITY CONTRACTING:**

- 10.1. All Equal Opportunity Contracting (EOC) information provided by the Design-Builder and requirements set forth in the RFQ shall apply to the RFP process. The Design-Builder shall review the information, data, and documentation provided in the Design-Builder's SOQ and changes shall be clearly identified in the Proposal; otherwise the information, as previously submitted, will be deemed complete and accurate.
- 10.2. The **mandatory** minimum subcontractor participation percentages for this RFP are as follows:

SERVICES	SLBE	ELBE	DVBE	SUBCONTRACTING REQUIREMENT
Design Services	5.0%	7.6%	1.30%	<b>13.90 %</b>
Construction Services	7.0%	15.3%	4.00%	<b>26.30 %</b>

- 1. Subcontracting Requirement is the percentage of the individual contract elements i.e., Design Services or Construction Services.
- 10.3. The Design-Builder shall submit subcontractor participation percentages that are not less than the specified subcontracting requirements:
- 10.4. The required subcontracting percentages apply to 1st tier Subcontractors only.
- 10.5. For the purpose of achieving the proposed subcontractor participation percentage, Allowance Proposal Items will not be included in the calculation. The Design- Builder may not substitute DVBE for SLBE/ELBE or SLBE/ELBE for DVBE. Subcontracting percentages for design and construction may not be substituted for one another.
- 10.6. The Proposal shall be deemed non-responsive if the Subcontractor and Supplier listings submitted and enclosed with the Price Proposal fail to meet the above minimum required subcontracting participation levels.
- 10.7. The Design-Builders' Proposals will be further evaluated for their commitment to the City's principles of equal opportunity as specified in this RFP. See Attachment "Evaluation and Selection Criteria" for more information.



**11. CONTRACTOR LICENSE AND PREQUALIFICATION STATUS:**

- 11.1. The Design-Builder must possess a Class **A or C34** California State Contractor's license.
- 11.2. The Design-Builder must be prequalified up to the total amount proposed, including any alternates or options, at the time of submission of the proposal.
- 11.3. The Design-Builder's California State License and City of San Diego prequalification status as specified herein must be valid at time of submission.

**12. SELECTION AND AWARD SCHEDULE:**

- 12.1. The City anticipates that the process for selecting a Design-Builder and awarding the contract will be according to the following tentative schedule. Dates are subject to change:

12.1.1. Pre-Proposal Meeting	April 19, 2017
12.1.2. Proposal Due Date	May 10, 2017
12.1.3. Selection and Notification	June 7, 2017
12.1.4. Limited Notice to Proceed	July 6, 2017

**13. PRE-PROPOSAL MEETING AND SITE VISIT:**

- 13.1. Those wishing to submit a Bid are **encouraged** to attend the Pre-Bid Meeting. The purpose of the meeting is to discuss the scope of the Project, submittal requirements, the pre-qualification process and any Equal Opportunity Contracting Program requirements and reporting procedures. To request a sign language or oral interpreter for this visit, call the Public Works Contracts Division at (619) 533-3450 at least 5 Working Days prior to the meeting to ensure availability. The Pre-Bid meeting is scheduled as follows:

**Date: April 19, 2017**  
**Time: 10:00 A.M.**  
**Location: 1010 Second Avenue, Suite 1400, San Diego, CA 92101**  
**(Large Conference Room)**

Attendance at the Pre-Submittal Meeting will be evidenced by the Bidder's representative's signature on the attendance roster. It is the responsibility of the Bidder's representative to complete and sign the attendance roster.

## INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS

### 1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting proposals must be pre-qualified for the total amount proposed, inclusive of all alternate items or specified Task Order limits prior to the date of submittal. Proposals from contractors who have not been pre-qualified as applicable and Proposals that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award. Complete information and links to the on-line prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification.shtml>

- 1.2. The completed application must be submitted online no later than 2 weeks prior to the Proposal due date. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or [dstucky@sandiego.gov](mailto:dstucky@sandiego.gov).
- 1.3. Due to the City's fiduciary requirement to safeguard vendor data, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

### 2. ELECTRONIC FORMAT RECEIPT AND OPENING OF PROPOSALS: Proposals will be received in **electronic format (eBids) EXCLUSIVELY** at the City of San Diego's electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.

- 2.1. **PROPOSERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit an electronic proposal.
- 2.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.
- 2.3. Upon entry of their proposal, the system will ensure that all required fields are entered. **The system will not accept a proposal for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.

- 2.4. PROPOSALS REMAIN SEALED UNTIL DUE DATE AND TIME.** eBids and eProposals are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Proposals submitted prior to the Due Date and Time are not available for review by anyone other than the submitter, who will have until the Due Date and Time to change, rescind or retrieve its proposal should they desire to do so.
- 2.5. PROPOSALS MUST BE SUBMITTED BY DUE DATE AND TIME.** Once the deadline is reached, no further submissions are accepted into the system. Once the Due Date and Time has passed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, Equal Opportunity Contracting Program (EOCP) compliance and other issues.
- 2.6. TECHNICAL PROPOSAL AND PRICE PROPOSAL ARE TO BE SEPARATE.** The proposer is to submit two separate proposal PDFs by the due date and time.
1. The Technical proposal, which should contain the items detailed below and in Attachment G. There is to be **NO PRICING** information within this proposal. If a Technical proposal contains pricing information, the submission may be deemed non-responsive and ineligible for further consideration, and
  2. The Price proposal, which should detail the cost structure and include any forms as required herein.
- 2.7. RECAPITULATION OF THE WORK.** Proposals shall not contain any recapitulation of the Work. Conditional proposals may be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.
- 2.8. PROPOSALS MAY BE WITHDRAWN** by the Proposer prior to, but not after, the time set as Due Date and Time.
- 2.8.1. Important Note:** Submission of the electronic proposal into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the proposer's submission to upload and be received by the City's eBidding system. It is the proposer's sole responsibility to ensure their proposals are received on time by the City's eBidding system. The City of San Diego is not responsible for proposals that do not arrive by the required date and time.
- 2.9. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE.** : To request a copy of this solicitation in an alternative format, contact the Public Works Contract Specialist listed in the cover of this solicitation at least five (5) working days prior to the Proposal due date to ensure availability.

**3. ELECTRONIC SUBMISSIONS CARRY FULL FORCE AND EFFECT**

- 3.1.** The proposer, by submitting its electronic proposal, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.
- 3.2.** By submitting an electronic proposal, the proposer certifies that the proposer has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its proposal, the proposer acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.
- 3.3.** The Proposer, by submitting their electronic proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this proposal are true and correct.

- 4. PROPOSALS ARE PUBLIC RECORDS:** Upon receipt by the City, proposals shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the proposal's General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.

**5. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**

- 5.1.** Prior to the Award of the Contract or Task Order, you and your Subcontractors and Suppliers must register with the City's web-based vendor registration and bid management system. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml>.

- 5.2.** The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.

- 6. JOINT VENTURE CONTRACTORS:** Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 7-6, "The Contractors Representative" in The GREENBOOK and 7-6.1 in The WHITEBOOK.

- 6.1.** Each properly signed Proposal shall constitute a firm offer that may be accepted by the City within the time frame specified herein.

- 6.2. This RFP will not commit the City to award a contract, to defray any costs incurred in the preparation of a Proposal pursuant to this RFP, or to procure or contract for the Work.
- 6.3. Upon receipt by the City, Proposals shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Proposal. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
- 6.4. Selection announcements, contract awards, and all data provided by the City shall be protected by the Design-Builder from public disclosure. The Design-Builders desiring to release information to the public shall receive prior written approval from the City.
- 6.5. Design-Builders who submit a response to this RFP agree to provide the required services in accordance with the terms and conditions noted in this RFP and its attachments upon award by the City. The agreement and other terms and conditions are included in the Design-Build Contract, The GREENBOOK, The WHITEBOOK, and the Supplementary Special Provisions (SSP).
- 6.6. Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting the RFPs or the Project's preliminary design may not be eligible to participate in the competition with any Design-Build Entity without the prior written consent of City. Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting any Reference Documents, such as the Water Department's Master Plan and any other document that was not prepared specifically for this contract, are considered to be eligible to participate.

## **7. EQUAL OPPORTUNITY CONTRACTING**

- 7.1. As set forth in this RFP, the City is dedicated to the principles of equal opportunity in the workplace and in subcontracting. It is the City's expectation that firms doing business with the City have, and are able to demonstrate, the same level of commitment.
- 7.2. The Design-Builders are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all eligible certified Subcontractors in accordance with the City's EOCP requirements included in the Contract Documents.

**7.3. Design-Builder's Work Force**

- 7.3.1.** The Design-Builders shall submit with its Proposal a Work Force Report (EOC Form BB05) and prior to award of contract, the successful Design-Builder shall submit to the City's EOCP office an updated Work Force Report or an Equal Employment Opportunity (EEO) Plan.
- 7.3.2.** If under representations are noted in the Work Force Report when compared to County Labor Force Availability data, the Design-Builder shall submit an Equal Opportunity Plan. Any Equal Employment Opportunity Plan submitted shall include the elements as outlined in the EOCP Requirements included in The WHITEBOOK.
- 7.3.3.** The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at:

<http://www.sandiego.gov/eoc/forms/index.shtml>

**7.4. Nondiscrimination Ordinance (Municipal Code §§ 22.2701-22.2708)**

- 7.4.1.** The Design-Builder shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age or disability in the solicitation, selection, hiring or treatment of the Subcontractors and Suppliers. The Design-Builder shall provide equal opportunity for Subcontractors to participate in subcontracting opportunities. The Design-Builder understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in contract termination, debarment or other sanctions.
- 7.4.2.** This language shall be in contracts between the Design-Builder and any Subcontractors and Suppliers.
- 7.4.3.** As part of its Proposal, the Design-Builder shall provide to the City a list of all instances within the last 10 years where a complaint was filed or pending against Design-Builder in a legal or administrative proceeding alleging that Design-Builder discriminated against its employees, the Subcontractors, or Suppliers, and a description of the status or resolution of that complaint, including any remedial action taken. If there have not been any complaints filed or pending against Design-Builder, a written statement from the Design-Builder to confirm shall be included in the Proposal.

**7.5. Contractor Registration and Electronic Reporting System**

- 7.5.1.** Prior to the award of the Contract, the Design-Builder, Subcontractors, and Suppliers must register with the City's web-based vendor registration and bid management system, BidsOnline™ hosted by PlanetBids System. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml>.

- 7.5.2.** Following the award of the Contract, the Design-Builder will be required to use the City's web-based contract compliance application for EOCP reporting purposes e.g., Weekly Certified Payroll, Monthly Employment Utilization, and Monthly Payments. Online tutorials are available at:

<http://stage.prismcompliance.com/etc/vendortutorials.htm>

- 7.5.3.** The City may retain progress payments if:

**7.5.3.1.** The non-registered Design-Builder, Subcontractors, or Suppliers fail to register,

**7.5.3.2.** EOCP reporting is delinquent or inadequate, or

## **8. CONTRACTOR'S LICENSE CLASSIFICATION AND PRE-QUALIFICATION STATUS**

- 8.1.** The Design-Builder's California State License and City of San Diego prequalification status as specified herein must be valid at time of submission. Failure to comply with these requirements may result in the proposal being deemed non responsive and ineligible for further consideration.

- 8.2.** Design-Builders interested in submitting a proposal for this Project shall be pre-qualified through the City's Prequalification program:

**8.2.1.** The Design-Builders must submit a complete prequalification application online to the Public Works Contracts, Prequalification Program no later than 2 weeks prior to **the Proposal due date and time**. Complete information and links to the online prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification.shtml>

**8.2.2.** For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or [dstucky@sandiego.gov](mailto:dstucky@sandiego.gov).

**8.2.3.** Due to the City's fiduciary requirement to safeguard vendor data, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

## **9. PRE-PROPOSAL ACTIVITIES**

### **9.1. Submission of Questions**

**9.1.1.** The Director (or designee) of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Proposals submitted to the City for the acquisition, construction, and completion of any public improvement except when otherwise set forth in these documents. All questions related to this solicitation shall be submitted to:

Public Works Contracts  
1010 Second Avenue, 14<sup>th</sup> Floor  
San Diego, California, 92101  
Attention: Contract Specialist listed on the front cover of this RFP.

OR:

To the Email address of the Contract Specialist listed on the front cover of this RFP.

- 9.1.2. Questions received less than 14 Days prior to the Proposal due date may not be considered.
- 9.1.3. Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.
- 9.1.4. Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Design-Builder's responsibility to be informed of any Addenda that have been issued and to adjust its Proposal accordingly.

**9.2. Revisions to the RFP**

The City, at its option, may respond to any or all questions submitted in writing via the City's eBidding web site in the form of an addendum. No other responses to questions, oral or written, shall be of any force or effect with respect to this solicitation.

Any changes to the Contract Documents through addendum are made effective as though originally issued with the Proposal. The Design-Builders shall acknowledge the receipt of Addenda at the time of Proposal submission.

**10. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK**

10.1. Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/> Plans and Specifications for this contract are also available for review in the office of Public Works Contracts.

10.2. The Design-Builders shall carefully examine the Project Site, the Plans and Specifications, and other materials as described in or referenced by this RFP. The submission of a Proposal shall be conclusive evidence that the Design-Builder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work, the quantities of materials to be furnished, local conditions, and as to the requirements of the Contract Documents.

11. **CHANGES TO THE SCOPE OF WORK:** Once a proposal has been accepted by the City and the award has been made, the Design-Builder shall immediately notify the City in writing of any proposed or anticipated change in the scope, contract amount, or contract time; and shall obtain the City's written consent to the change(s) prior to affecting them. In no event shall the City's consent be construed to relieve the Design-Builder from its duty to render all work and services in accordance with applicable laws and accepted industry standards



12. **DESIGN SUBMITTALS:** The City's review of the Design-Builder's Design Submittals shall not relieve the Design-Builder from its responsibilities under the Contract, or be deemed to be an acceptance or waiver by City of any deviation from, or of the Design-Builder's failure to comply with, any provision or requirement of the Contract Documents, unless such deviation or failure has been identified as such in writing in the document submitted for acceptance by the Design-Builder and accepted by City. Where approval or acceptance by City is required, it is understood to be general approval only, and does not relieve the Design-Builder of responsibility for complying with all applicable laws and good professional practices as the Design-Builder shall be the Engineer of Record.
13. **BONDS AND INSURANCE:** Prior to the award of the Contract (or Task Order), the Design-Builders shall submit evidence of separate bonds and insurance as specified in Sections 2-4, "CONTRACT BONDS," 7-3, "LIABILITY INSURANCE," and 7-4, "WORKERS' COMPENSATION INSURANCE" of the City's standard specifications for public works constructions unless specified otherwise in the Contract Documents.
14. **SUBMITTAL REQUIREMENTS: PROPOSALS MUST BE RECEIVED NO LATER THAN THE DUE DATE AND TIME.** Proposals may be withdrawn by the Design-Builder only up to the proposal due date and time.

**IMPORTANT NOTE: Submission of the electronic proposals into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure that their bids / proposals are received on time by the City's eBidding system. The City of San Diego is not responsible for bids / proposals that do not arrive by the required date and time.**

14.1. **TECHNICAL PROPOSAL REQUIREMENTS:** Technical Proposals submitted in response to this RFP shall be in the following order and shall include:

- Legal name of company.
- Legal form of entity (partnership, corporation, joint venture, or other). If joint venture, identify the members of the joint venture, and provide all information required under this section for each member.
- Year of establishment of entity.
- If company is subsidiary of a parent company, identify the parent company.
- Address of main office.
- Address of San Diego satellite office if applicable.
- Contact information for firm, including name, title, email address and telephone number.
- Number of employees in San Diego County.
- Applicable License(s):
- City of San Diego Business License Number, including expiration date.
- State Contractor's License Number including expiration date, and all classifications. Professional Engineering/Architect License Number, including expiration date.

- Failure to provide all required information may result in the Proposal being considered non-responsive and ineligible for further consideration.

**14.1.1.** The Technical Proposal shall be concise, well organized, and demonstrate the Design-Builder's qualifications and experience applicable to the Project. The Technical Proposal shall be limited to 50 one-sided pages (8<sup>1/2</sup>" x 11"), exclusive of resumes, graphics, forms, pictures, photographs, dividers, front and back cover, etc., that address the Technical Proposal contents; and of Equal Opportunity Contracting documentation. Font Type shall be Times New Roman in a minimum 12 Point font size, with a minimum 1" margin for text pages. A cover letter may be submitted but shall not contain any information that is a required element of the Technical Proposal. Any Technical Proposal that does not comply with these formatting standards may not be considered.

**14.1.2.** The Technical Proposals submitted in response to this RFP shall be in accordance with the requirements listed in ATTACHMENT G. The contents of the Technical Proposal shall be organized consistent with the format in Attachment G.

**14.1.3.** Design elements which deviate from the Scope of Work, City's design guidelines, or material substitutions which differ from the Approved Material List shall be highlighted in accordance with Attachment G.

**14.1.4.** Failure to comply with this section may render the Design-Builder's submittal non-responsive and ineligible for further consideration.

## **14.2. PRICE PROPOSAL REQUIREMENTS**

**14.2.1.** A clearly marked, signed PDF of the Price Proposal is to be submitted in a separate PDF. This **is not** to be included with the Technical proposal. Refer to Attachment H of this RFP for any Price Proposal forms required to be used.

**14.2.2.** The Price Proposal shall be signed by an individual or individuals authorized to execute legal documents on behalf of the Design-Builder.

**14.2.3.** The lowest proposed price is not the determining factor for award of this contract. See Attachment G for the criteria by which the proposals will be evaluated.

**14.2.4.** In the event of any discrepancies, written numbers will govern over numerical. Also, the sum of all lump sum line items, unit price line items, allowance line items and any other priced items will govern over the "Total Design-Build Proposal" line item.

**14.2.5.** The required EOCP information such as Subcontractor and Supplier listings shall be submitted as part of the Price Proposal.

**15. SELECTION CRITERIA AND SCORING**

- 15.1.** An evaluation Panel comprised of representatives from the City will be established for this Project. The Panel may also include other interested parties such as additional participating agencies, representative from the community and other appropriate agencies such as the State Water Resource Control Board.
- 15.2.** Proposals will be ranked according to the selection criteria set forth in Attachment G.
- 15.3.** The Panel will review all proposals received.
- 15.4.** Based upon this technical review, the Panel will rank the Design-Builders' proposals in accordance with the selection criteria set forth in Attachment G of this RFP.
- 15.5.** Once the Technical Proposals have been ranked by the Panel, the Design-Builders' price proposals will be made available to the panel and forwarded to EOCP for review and scoring of subcontractor participation. The EOCP score will then be added to the Design-Builders' cumulative scores.

**16. AWARD**

- 16.1.** After the Technical Proposals have been evaluated, scored and ranked; the Price proposals will be factored in according to the criteria set forth in Attachment G. A Design-Builder selection will then be made.
- 16.2.** The City will announce in writing to all the RFP participants the selected Design-Builder. The announcement will show the results of the evaluation. This notification to the Design-Builders shall constitute the public announcement of the selected Design-Builder. In the event that the selected Design-Builder is subsequently deemed non-responsive or non-responsible, a new public announcement will be provided to all proposers with the name of the newly designated selected Design-Builder.
- 16.3.** To obtain the price Proposal results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the Proposal name and number. The Proposal tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

**17. ADDITIONAL POLICIES, PROCEDURES, TERMS AND CONDITIONS**

- 17.1.** The Program's Selection Process is based on the policies, procedures and guidelines set forth in the City Municipal Code Chapter 2, Article 2, Division 33.
- 17.2. Protests.** A Design-Builder may protest the award of the Contract to another Design-Builder in accordance with San Diego Municipal Code.

- 17.3. Changes to Key Personnel and Substitution of Subcontractors.** The Design-Builder shall not change or substitute any individual that is identified in its proposal as "key personnel" without the written consent of the City. The Design-Builder shall not change or substitute any material, supplier, or subcontractor identified in its Proposal without written consent of the City. The City's consent will not be unreasonably withheld.
- 17.4. Project Team.** The Design-Builder shall maintain all representations, team members, and proposed tasks and work elements as valid, except for the schedule which may be adjusted as mutually agreed upon by the City and the Design-Builder.
- 17.5. Submittal of "Or Equal" Items.** See 4-1.6, "Trade Names or Equals" in the SSP and as modified by the Scope of Work ATTACHMENT A.
- 17.6. Subcontract Limitations.** The Design-Builder's attention is directed to Standard Specification for Public Works Construction, Section 2-3, "SUBCONTRACTS" which requires the Design-Builder to perform not less than the specified amount under this RFP. Failure to comply shall render the Proposal non-responsive.
- 17.7. San Diego Business Tax Certificate.** All Contractors, including Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor, before the Contract can be executed.
- 17.8. City Standard Provisions.** The work resulting from this RFP is subject to the following standard provisions. See The WHITEBOOK for details.
- 17.8.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 17.8.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 17.8.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- 17.8.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 17.8.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 17.8.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 17.8.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

**17.9.** Prevailing Wage Rates Apply: Refer to Attachment D.

**17.10.** Reference Standards: Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK") <a href="http://www.greenbookspecs.org/">http://www.greenbookspecs.org/</a>	2015	PWPI070116-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* <a href="https://www.sandiego.gov/publicworks/edocref/greenbook">https://www.sandiego.gov/publicworks/edocref/greenbook</a>	2015	PWPI070116-02
City of San Diego Standard Drawings* <a href="https://www.sandiego.gov/publicworks/edocref/standarddraw">https://www.sandiego.gov/publicworks/edocref/standarddraw</a>	2016	PWPI070116-03
Citywide Computer Aided Design and Drafting (CADD) Standards <a href="https://www.sandiego.gov/publicworks/edocref/drawings">https://www.sandiego.gov/publicworks/edocref/drawings</a>	2016	PWPI092816-04
California Department of Transportation (CALTRANS) Standard Specifications - <a href="http://www.dot.ca.gov/des/oe/construction-contract-standards.html">http://www.dot.ca.gov/des/oe/construction-contract-standards.html</a>	2015	PWPI092816-05
CALTRANS Standard Plans <a href="http://www.dot.ca.gov/des/oe/construction-contract-standards.html">http://www.dot.ca.gov/des/oe/construction-contract-standards.html</a>	2015	PWPI092816-06
California Manual on Uniform Traffic Control Devices Revision 1 (CA MUTCD Rev 1) - <a href="http://www.dot.ca.gov/trafficops/camutcd/">http://www.dot.ca.gov/trafficops/camutcd/</a>	2014	PWPI092816-07
<p><b>NOTE:</b> *Available online under Engineering Documents and References at: <a href="http://www.sandiego.gov/publicworks/edocref/index.shtml">http://www.sandiego.gov/publicworks/edocref/index.shtml</a></p>		

## ATTACHMENTS

**ATTACHMENT A**  
**PROJECT DESCRIPTION, SCOPE OF WORK, AND TECHNICAL SPECIFICATIONS**  
**(BRIDGING DOCUMENTS)**

## ATTACHMENT A

### PROJECT DESCRIPTION, SCOPE OF WORK, AND TECHNICAL SPECIFICATIONS (BRIDGING DOCUMENTS)

#### INDEX

1	Project Description	34	Project Meetings
2	Scope of Work	35	Red-lines
3	City Services	36	Record Keeping
4	City Provided Information	37	Required Test/Material Certificates
5	Review of the Design-Builder's Design Submittals	38	Traffic Control
6	Community Input	39	Reference Standards
7	Photo Log and Videotape	40	Design Guidelines
8	Coordination	41	Bridging Documents
9	Existing Information	42	Supplemental Requirements
10	Requests for Clarifications or Information		
11	Substitutions		
12	Design Criteria and Procedure for Review of Design Materials		
13	Surveying		
14	As-built information		
15	Environmental and Permit Support		
16	Owner/Governmental Approvals		
17	Geotechnical Investigation		
18	Corrosion Survey Report		
19	Potholing		
20	Review of Contract Documents and Field Conditions		
21	Local Conditions		
22	Access to the Work		
23	Supervision		
24	Authorization to Proceed		
25	Design Calculations		
26	Plan Checks - at major completion levels, Design		
27	Shop Drawings, Material Submittals and Samples		
28	Design Development		
29	Design Submittals		
30	Community Relations and Public Outreach Program		
31	Quality Assurance and Control		
32	Quality Assurance / Quality Control Guidelines		
33	Noise Abatement and Control		



## ATTACHMENT A

### PROJECT DESCRIPTION, SCOPE OF WORK, AND TECHNICAL SPECIFICATIONS (BRIDGING DOCUMENTS)

#### PUBLIC WORKS DEPARTMENT

- 1. Project Description: Water Improvements (B-15134):** The proposed Scope of Work includes Construct and install a total of 6,799 LF (1.29 miles) of water mains to replace existing cast iron (CI) and asbestos cement (AC) water mains, including all associated water services, fire hydrants, curb ramps, traffic control, etc. Abandon (by slurry fill) a total of 296 LF (0.06 miles) of existing 8-inch and 16-inch water main under Freeway I-8. 284 LF of the total is cast iron (CI) and 12 LF is unknown pipe material.

**Map-1 (Via De La Valle) :** This location is within Torrey Pines Community, all the work will occur in the intersection of Via De La Valle and Jimmy Durante Blvd (partially within the City of Del Mar), and will include replacing approximately 627 LF (0.12 miles) CI water and the existing water mains are within Rancho Santa Fe 284 Pressure Zone.

**Map-2 (Clairemont Mesa Blvd):** All the work will be along Clairemont Mesa Blvd. between Frink Av and Diane Av. Project will replace approximately 1,327 LF (0.25 miles) of existing 16-inch CI water. The existing water mains are within Northwest Mesa 559 Pressure Zone.

**Map-3 (Garnet Ave):** This location is within Pacific Beach & Clairemont Mesa community, the project includes replacing approximately 2,181 LF (0.14 miles) of water mains. Replacement will be in place in two different locations; Garnet Ave between Mission Bay Dr & Vicinity of Santa Fe St and on Morgan Ave between Monair Dr and Garnet Ave extending south through a subdivision to Mt. Laurence Dr.

**Map-4 (Hurlbut St):** The proposed work is within Serra Mesa community and will be along Hurlbut St between Cabrillo Height Neighborhood Park and the intersection of Hurlbut St and Afton Rd. Project will replace approximately 1,227 LF (0.23 miles) of existing 16-in AC water. The existing water mains are within Northwest Mesa 559 Pressure Zone.

**Map-5 (Cam De La Siesta):** This location is within Mission Valley community, the replacement will be in place along Cam De La Siesta in the Vicinity of Cam De la Reina and Camino Del Rio North, work includes replacing approximately 569 LF (0.11 miles) of existing 16-inch AC water mains and 44 LF (0.01 miles) of existing 16-inch CI water mains will be replaced-in-place within the Caltrans right-of-way (I-8 EB on ramp) north of Camino Del Rio South. Project also includes abandoning 296 LF (0.06 miles) of existing 8-inch and 16-inch water main under freeway I-8 within Caltrans right-of-way starting from I-8 EB on ramp (north of Cam Del Rio South) toward the terminus of Camino Del Rio North and Cam De La Siesta.

**Map-6 (B St):** The proposed work is within Greater Golden community, and will be along B St between Pershing Dr and 22<sup>nd</sup> St. This project will replace approximately 800 LF (0.15 miles) of existing 16-inch CI water main with a new 12-inch PVC pipe.

**Map-7 (Saipan Dr):** All the work will be within Skyline Paradise Hills, the replacement will occur at the terminus of Alleghany St and Saipan Dr. Project will replace approximately 24 LF (0.01) of existing 16-in CI water main.

**Sewer Improvements (B-17059):** The proposed Scope of Work includes Construct a total of 1,360 LF (0.26 miles) of sewer mains to replace existing vitrified clay (VC) and concrete pipe (CP) sewer mains, including associated sewer laterals, manholes and other appurtenances.

**Map-3 (Garnet Ave):** This location is within Pacific Beach & Clairemont Mesa community, the replacement will occur along Garnet Ave starting from Santa Fe St toward the east past the overhead MTS rail track and will replace approximately 200 LF (0.04 miles) of existing VC sewer pipe.

**Map-4 (Hurlbut St):** The proposed work is within Serra Mesa community and will be along Hurlbut St in the vicinity of Afton Rd. Project will replace approximately 730 LF (0.14 miles) of existing 8-in VC sewer pipe will be replaced-in-place.

**Map-6 (B St):** The proposed work is within Greater Golden community, and will be along B St (Between Pershing Dr & 20th St) and 20th St (Between B St & C St). Work includes replacing approximately 430 LF (0.08 miles) of existing 6-inch CP sewer pipes.

The selected D-B team shall provide a detail schedule of value per location prior to award.

## **2. Scope of Work**

- 2.1.** The Work and Services required of the Design-Builder include those during design and construction of the Project. The Design-Builder shall provide all management, supervision, labor, services, equipment, tools, supplies, temporary facilities, and any other item of every kind and description required for the complete design and construction of the Project.
- 2.2.** The Design-Builder shall be responsible for performing and completing, and for causing all Sub-consultants/Subcontractors to perform and complete the design and construction of the Project as set forth in the Contract Documents.
- 2.3.** The Design-Builder shall provide all Work and Services required by the Contract Documents, including those described as "if required," "if directed," "potential," "optional," "may," or similar adjectives and phrases. This work falls under the appropriate proposal items.
- 2.4.** The Design-Builder covenants that the Services shall meet the performance expectations of the City as described in this Scope. The Design-Builder shall be responsible for achieving Completion of the Project as set forth in the Project Schedule, as the same may be extended from time to time pursuant to the provisions of the contract.
- 2.5.** The submission of a Proposal shall be conclusive evidence that the Design-Builder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, the local conditions under which the Work is to be performed, and as to the requirements of the Proposal Documents, Plans, and Specifications.

- 2.6.** As the Engineer of Work, the Design-Builder shall refer to the City's preliminary design information for the purpose of preparing a set of Plans and Specifications for the construction.
- 2.7.** The Scope of Work and Services [Scope] shall also include but is not limited to the following:
  - 2.7.1.** Conducting investigations, as-built research, and additional design survey services including physical and aerial surveys if needed for the completion of design work;
  - 2.7.2.** Preparing & completing 30%, 60%, 100%, and Final design drawings. The Design-Builder is solely responsible for the preparation and completion of design plans for construction;
  - 2.7.3.** Obtaining plan check approvals; and providing engineering services during construction, startup, and testing;
  - 2.7.4.** Construction of water mains and appurtenances including all high-lining, cut and plug and cut ins;
  - 2.7.5.** Monitoring for potential of any hazardous materials and coordination with local resource agencies;
  - 2.7.6.** Value engineering;
  - 2.7.7.** Additional geotechnical investigation and potholing;
  - 2.7.8.** Performance and implementation of QA/QC,
  - 2.7.9.** Landscaping and re-vegetation plan, if required;
  - 2.7.10.** Traffic control, paving, AC overlay or Slurry Seal for all streets, storm water permitting and compliance;
  - 2.7.11.** Coordinating with the City Project and Construction Managers and other utility owners/contractors; Coordinate utility relocations with utility owners;
  - 2.7.12.** Scheduling, community outreach and public relations, and preparation of as-built drawings and mylars.
  - 2.7.13.** Determine if any special consideration will be required for hazardous materials per the Bridging Documents.
- 2.8.** The Design-Builder shall use CADD in compliance with the City of San Diego 2016 CADD Standards.
- 2.9.** The Design-Builder shall use the Primavera Project Management and Scheduling Software or equal. The Design-Builder shall submit and maintain a task-oriented

computerized schedule for completing the Work over the life of the Project in accordance with Section 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK."

- 2.10. As required by California Government Code section 830.6, prior to construction, the design (including changes) for the Project and/or any portion thereof shall be approved by the Engineer.

### 3. **City Services:**

- 3.1. The City will provide only the services listed in this section. All other services necessary for complete design and construction of the Project shall be provided by Design-Builder.

- 3.1.1. Project Management and Administration. The City will respond to Design-Builder's written questions regarding Project definition and scope within 15 Working Days of receipt. See The WHITEBOOK, General Provisions (C), subsection 2-6.6

- 3.1.2. Submittal Review and Approval. The City will review each submittal within 20 Working Days of receipt. See The WHITEBOOK, General Provisions (A), subsection 2-5.3.1.

- 3.1.3. Construction inspection, administration, and material testing.

- 3.1.4. Plan checking fees.

- 3.1.5. One-time orientation on the use of the Public Works Department's GIS and other databases that the City makes available to the Design- Builder.

- 3.1.6. Easement Acquisition, including right-of-way drawing.

- 3.1.7. Permit fees.

- 3.1.8. Construction Survey.

### 4. **City Provided Information:**

- 4.1. The City will provide the following information to Design- Builder. The City does not guarantee the accuracy of this information. The Design-Builder shall conduct further research as necessary to verify the information.

- 4.1.1. Access to existing topographic maps, San Diego Geographical Information Source (SanGIS) Maps, and electronic files in the possession of the Right-of-Way Design Division. The Design-Builder's expenses for copying will be reimbursed by City unless the copying was performed using City equipment and supplies.

- 4.1.2. One time access to the CIP Tracking/SPLASH Database to identify existing and proposed Projects in surrounding areas and limited access, as determined by City, to City's on-line records on, maintenance sites, and recent sewer spills. The Design-Builder shall make arrangements with the Engineer or designee at least 1 week in advance to reserve the computer work station.
- 4.1.3. Sample set of construction plans for a typical Project. The Design-Builder shall use the sample as minimum guidelines for the format and contents of Plans.
- 4.1.4. City's QA/QC checklists.
- 4.1.5. Access to Public Works Department's on-line as-built drawings and available design survey information where available.
- 4.1.6. Traffic Control development process.
- 4.1.7. All Survey and CADD files in possession of the Right-of-Way Design Division for this project.

**5. Review of the Design-Builder's Design Submittals:**

- 5.1. The Design-Builder shall allocate 20 Working Days for City to review and comment on each submittal and 2 weeks for the Design-Builder to respond and for final Working Days resolution of comments. To log and communicate the review comments, actions, and resolutions efficiently, the City intends to utilize a MS Access database or MS Excel spreadsheet to manage the design submittal comments for 30%, 60%, 100%, and Final Designs. The Design-Builder shall review and respond to City's comments in the format provided by City.

**6. Community Input:**

- 6.1. Community input is important. The Design-Builder shall identify major community issues (e.g. access to the public facilities and businesses located within or near the Project area) and shall obtain and address community input. The Design-Builder shall attend at least 2 community presentation meetings of 2-4 hours each (usually scheduled during the early 30% design and prior to start of construction) and during construction as required by the City. The Design-Builder shall also prepare and receive City approval of hand-outs and displays for the community presentations. The Design-Builder shall prepare and implement a community relations plan as discussed later in Community Relations and Public Outreach Program section of this Scope. The Design-Builder shall also receive the Engineer's approval for night and after-hours work.

**7. Photo Log and Videotape:**

- 7.1. The Design-Builder shall comprehensively photograph and videotape the Project Site before, during, and after construction of the Project. Prior to Acceptance, the Design-Builder shall prepare and submit the following items to City:
  - 7.1.1. a still-photo log including the photographs taken;

7.1.2. one copy of each of the still-log photos bound in a three-ring binder; and

7.1.3. two copies of the Project CD in a form acceptable to City.

7.2. The Design-Builder shall request City's prior written approval for the use of digital photography and submit the relevant specifications for digital submittal with the request.

**8. Coordination:**

8.1. The Design-Builder shall coordinate design and construction requirements with governmental entities and agencies, private utilities, and all other parties either involved in infrastructure improvements or otherwise affected by the design and construction requirements.

**9. Existing Information:**

9.1. The City and the Design-Builder recognize that previous studies, designs and reports such as information provided in the Bridging Documents have developed a preliminary definition of the Project. However, these previous efforts have not resulted in a comprehensive and final Project definition. The Design-Builder shall verify all information provided to it by the City pertaining to the Bridging Documents, conceptual plans, Project Site's description, rights-of-way, easements, surveys, existing utilities, soils, hazardous wastes and geotechnical reports, etc., and shall verify the data and recommendations prior to including them into the Project design. The Design Builder shall perform the engineering tasks necessary to further refine and optimize the Project, utilizing as much previous work as possible, ultimately leading to authorization-to-proceed for Construction with Final Design.

**10. Requests for Clarifications or Information:**

10.1. The Design-Builder shall submit all RFI's to the Engineer in writing. Oral communications shall not be relied upon unless confirmed in writing. RFI's shall be in a format acceptable to the Engineer, and, at a minimum, shall contain: the Project name and WBS number; the request date; the desired response date; a unique numeric request identifier; a title; a reference to the pertinent part of the Bridging Documents, the Design-Build Special Provisions, or other specific part of the Contract Documents; CPM activity number affected; the written request; the Design-Builder's proposed solution, if appropriate; attachments, if any; and the name, telephone number, e-mail address, and title of the request initiator.

**11. Substitutions:**

11.1. Prior to receipt of the final design, the City will consider written substitution requests from the Design-Builder for substitution of products or manufacturers, and construction methods (if specified). After the City receives the final design, substitution requests will be considered only in the case of unavailability of a product or other conditions beyond control of the Design-Builder. Design-Builder shall use Material Substitution request form included as part of Bridging Documents.

- 11.2.** The Design-Builder shall have the full burden of demonstrating that the proposed substitution is equal to the specified manufacturer, product, or construction method. By the act of submitting a substitution request, the Design-Builder warrants that:
  - 11.2.1.** The Design-Builder has investigated the proposed substitution and has determined that it is equal to or superior in all respects to the specified manufacturer, product, or construction method.
  - 11.2.2.** The Design-Builder will provide the same or better guarantees or warranties for the proposed substitution as for the specified manufacturer, product, or construction method.
  - 11.2.3.** The Design-Builder waives all claims for additional costs or extensions of time related to the proposed substitution that subsequently may become apparent.
- 11.3.** The City will not accept a proposed substitution if any one of the following applies:
  - 11.3.1.** Acceptance will require changes in the design concept or a substantial revision of the Contract Documents.
  - 11.3.2.** Acceptance will delay completion of the Design-Builder's Work or Services or the work or services of other City contractors.
  - 11.3.3.** The Design-Builder does not specifically identify a substitution that appears on a Shop Drawing and/or does not submit a formal substitution request.
- 11.4.** The City will determine in its sole discretion whether the proposed substitute is equal to the specified manufacturer, product, or construction method. If the City determines that a proposed substitute is not equal to that specified, the Design-Builder shall provide the specified manufacturer, product, or construction method at no additional cost to the City or delay to the Project.
- 11.5.** The City will consider only one substitution request for each product.
- 11.6.** The Design-Builder shall submit a separate approved Shop Drawing for any proposed substitution that is accepted by the City. The City's acceptance of a substitution does not relieve the Design-Builder from the requirements for submission of Shop Drawings.

**12. Design Criteria and Procedure for Review of Design Materials:**

- 12.1.** *General* - The design criteria presented herein shall apply to the design and new construction of sewer & water main replacement, abandonment, site preparation, and restoration as outlined in the Bridging Documents. The Project shall be designed and constructed to provide a minimum service life of 50 years. Construction of the Project shall cause minimum interruptions in existing sewer & water services. Changes to the Pre-design Report recommendations e.g., pre-design alignments, paving, and storm drain protection; and construction methods shall be made only if approved by the City.

**12.2.** *Design Responsibilities* – The Design-Builder shall provide all Services for the Project. The Services shall include preparing the 30%, 60%, 100% and Final Design plans for the Project [Final Design], including all necessary design and/or Construction Documents. The Services shall also include those required during construction, and Project Completion. The Services shall be performed in accordance with all Applicable Laws and City policies.

**12.2.1.** The Design-Builder shall provide complete design for all elements of the Project (as applicable) such as: civil, physical and aerial surveys, geotechnical, environmental and specialty consulting areas. Design-Builder shall evaluate alternative construction approaches to ensure economical designs which optimize constructability yet meet all requirements of this Contract, including all applicable laws and applicable architectural concepts, and conceptual designs.

**12.2.2.** The Design-Builder shall incorporate the requirements of permitting agencies as may become apparent in the course of Project design. The Design-Builder shall apply for and secure all permits and provide all necessary reports, studies, and support required to obtain the permits. Permit and utility fees, if any, will be paid by the City. In addition, the Design-Builder shall research and comply with all Air Pollution Control District and noise abatement requirements, along with any hazardous materials management requirements of NFPA, Cal-OSHA and the City Fire Department. The Design-Builder shall develop an air pollution control plan, a noise abatement plan, (WPCP) Water Pollution Control Plan and a hazardous materials management plan, if required. If required, the Design-Builder shall incorporate appropriate facilities into the design.

**12.2.3.** With prior authorization from the Engineer, the Design-Builder shall provide additional geotechnical investigations and potholing to the extent the Design-Builder determines that they are necessary for Final Design.

**13. Surveying:**

**13.1.** The Design-Builder shall perform all physical and aerial surveys as needed to complete design and prepare construction plans and as-built drawings in accordance with the City standards.

**14. As-built information:**

**14.1.** The Design-Builder shall obtain and review record drawings and as-built information from available public records, maintenance records, and Average Daily Traffic (ADT) counts, etc. if needed in addition to the information in the Bridging Documents.



**15. Environmental and Permit Support:**

**15.1.** This Scope is based on studies and reviews performed by City's Development Services Department [DSD] which are included in the Bridging Documents. The Design-Builder shall identify all permits required for the Project as well as all requirements for those permits. All permits shall be acquired by the Design-Builder and the costs thereof paid by City. At the 60%, 100% and Final Design completion levels, the Design-Builder shall submit to City a written list of permits required for the Project. The Design-Builder shall identify all permitting agencies and authorities having jurisdiction. The Design-Builder shall prepare permit applications and submit the applications to the Engineer for review. The Design-Builder shall provide technical services as required by the permitting agencies during permit acquisition. The Design-Builder shall incorporate mitigation provisions and DSD review requirements, including the certified CEQA document into the Construction Documents, if applicable. The Design-Builder shall identify and estimate quantities of BMP's to comply with SWPPP requirements, if applicable.

**16. Owner/Governmental Approvals:**

**16.1.** The Design-Builder shall obtain all City and other jurisdictional agency approvals as required to implement the design and construction of the Project. The City received an environmental document for the Project. During the Final Design process, if the Design-Builder modifies the Project such that a revision of the environmental document is required, the Design-Builder shall be responsible for all work required for implementing a revision, including preparation of revised documentation and coordination with City staff. The Work shall not proceed on the Project until the environmental requirements are met to the satisfaction of the City. There shall be no additional time allowed in the contract for processing and approval of revised permit documents. The cost associated with implementing both the design and construction changes as a result of the Design-Builder modifications shall be the responsibility of the Design-Builder and will not be compensated by the City.

**17. Geotechnical Investigation:**

**17.1.** The Design-Builder shall provide the necessary geotechnical investigations and testing required to design and to construct the Project in accordance with the Contract requirements.

**18. Corrosion Survey Report:**

**18.1.** The Design-Builder shall investigate the Project Site and provide a current corrosion survey report for the water portion of the Project according to City standards and guidelines (refer to sections 40, 41, 42, and 43).

**19. Potholing:**

- 19.1.** The Design-Builder shall have full responsibility for assessing, reviewing and verifying existing utility information and data. The Design-Builder shall excavate sufficient potholes to verify locations and elevations at utility crossings and existing piping to be removed or replaced in the Project. The Design-Builder shall immediately notify the City of any damage caused to the pipe during potholing activities.
- 19.2.** The Design-Builder shall provide all services related to the excavation and backfilling of potholes. Pothole excavations shall be in compliance with CAL-OSHA and City safety requirements, and any excavations left open shall be covered with steel plates.
- 19.3.** The Design-Builder shall restore and clean-up all work sites.
- 19.4.** All utility excavations shall be tied to the horizontal and vertical control information provided by City's survey for this Project. The Design-Builder shall provide the City with a summary which shall include:
  - 19.4.1.** Utility.
  - 19.4.2.** Conduit quantity, type, and size.
  - 19.4.3.** Depth to top of conduit.
  - 19.4.4.** Horizontal coordinates (NAD 83).
  - 19.4.5.** Surface elevation (M.S.L).
  - 19.4.6.** Top elevation of conduit.
- 19.5.** At the completion of examining each pothole, the Design-Builder shall:
  - 19.5.1.** Replace the pipe bedding which was removed. Tamp and compact to provide suitable support for the pipe.
  - 19.5.2.** Backfill and cover the pipe with native soil.
  - 19.5.3.** For those pothole excavations located in the roadway, Trench resurfacing shall comply with SDG-107 or SDG-108, when applicable.
- 19.6.** The Design-Builder shall provide construction staging, noise and dust control, and traffic control as required during excavation for potholing to minimize impacts on local neighborhoods.
- 19.7.** The Design-Builder shall restore to their in-kind condition, as determined by City, all streets, curbs, gutters, sidewalks, private properties and other improvements damaged as a result of the Design-Builder's activities.
- 19.8.** The Design-Builder shall submit potholing information to the Engineer for review.

19.9. The Design-Builder shall not perform any additional potholing unless authorized in writing by the City.

**20. Review of Contract Documents and Field Conditions:**

20.1. The Design-Builder shall conduct field investigations, including potholing of underground facilities, take field measurements, and verify field conditions. The Design-Builder shall carefully compare such field conditions and other information known to the Design-Builder with the Contract Documents before commencing Work and/or Services. The Design-Builder is solely responsible for investigation and discovery of all field conditions notwithstanding any information provided by City in the Contract Documents or otherwise. City has made an effort to eliminate errors, omissions, and inconsistencies in the Contract Documents. The Design-Builder, however, shall bring to City's attention for clarification any errors, omissions, or inconsistencies prior to submission of the Design-Builder's Proposal. Otherwise, the Design-Builder shall take responsibility for any costs or delays associated with such error, omission, or inconsistency.

**21. Local Conditions:**

21.1. The Design-Builder shall take steps reasonably necessary to ascertain the nature and location of the Work, and investigate and satisfy itself as to the general and local conditions that are applicable to the Work, including but not limited to:

21.1.1. Conditions bearing on transportation, disposal, handling, and storage of materials;

21.1.2. The availability of labor, materials, water, power, and roads;

21.1.3. Weather conditions;

21.1.4. Physical conditions at the Project Site;

21.1.5. The surface conditions of the ground; and

21.1.6. The character of equipment and facilities needed prior to and during the performance of the Work.

**22. Access to the Work:**

22.1. The Design-Builder shall provide the City and utility owners with access to the Project Site and provide coordination and time for utility work to be accomplished at all times.

**23. Supervision:**

23.1. The Design-Builder shall supervise and direct the Work and shall be solely responsible for and have control over design and construction means, methods, techniques, sequences, and procedures. The Design-Builder shall not be relieved of obligations to perform the Work in accordance with the Contract Documents by tests, inspections,

acceptances, or approvals required or performed by persons other than The Design-Builder. The Design-Builder shall employ a superintendent and an assistant who shall be present at the Project Site at all times that Work is being performed. The superintendent shall represent the Design-Builder, and communications given to the superintendent shall be as binding as if given to the Design-Builder.

**24. Authorization to Proceed:**

**24.1.** Following each design review, the Design-Builder shall meet with the Engineer to:

**24.1.1.** Discuss the comments and responses, and to resolve all open issues and disagreements;

**24.1.2.** Confirm the next level of design development; and

**24.1.3.** Obtain written authorization to proceed with the next design level; and

**24.1.4.** Obtain written authorization to proceed with construction.

**24.1.5.** Design-Builder shall not start construction without final signed and stamped Plans per City standards.

**25. Design Calculations:**

**25.1.** The Design-Builder shall include design calculations, catalog cuts, computations, telephone and facsimile records, and other similar documents supporting all elements of the Design-Builder's design with the Design-Builder's final signed and stamped calculations. The Design-Builder shall provide catalog cuts and manufacturer's data included with the final Project calculations for each approved material listed in the specifications or identified on the drawings.

**26. Plan Checks - at major completion levels, Design:**

**26.1.** The Design-Builder shall submit written estimates of plan checks required to complete the Project. In the written estimates, the Design-Builder shall:

**26.1.1.** Identify all authorities having jurisdiction, including but not limited to the City Planning Division, Development Services Department, the City Traffic Section of Construction Management and Field Services, and other utilities. City will prepare plan check applications and submit the applications to the authorities having jurisdiction. Payment for plan check applications shall be made by City.

**26.1.2.** Submit hard and electronic copies of written design submittal comments from City and other utilities or agencies, annotated to indicate the Design-Builder's responses, final disposition of comments, and incorporate into the Final Design documents.

**27. Shop Drawings, Material Submittals and Samples:**

- 27.1.** The Design-Builder, as the Engineer of Record, shall review and approve Shop Drawings, Material Submittals and Samples prior to procurement.
- 27.2.** The Design-Builder shall determine and verify all of the following prior to procurement:
- 27.2.1.** Field measurements, quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto.
  - 27.2.2.** Products with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work.
  - 27.2.3.** Information relative to the Design-Builder's sole responsibilities in respect of means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.
- 27.3.** Prior to approving Shop Drawings, Material Submittals or Samples, the Design-Builder shall review and coordinate each Shop Drawing, Material Submittals or Sample with other Shop Drawings, Material Submittals and Samples, and with the requirements of the Work and Contract Documents.
- 27.4.** The Design-Builder shall carefully review Shop Drawings, Material Submittals and Samples and shall date, sign, and certify each submittal as being correct and in strict conformance with the Contract Documents. In the case of Shop Drawings, each sheet shall be so dated, signed, and certified. The Engineer will require 3 copies of approved submittals prior to procurement for QA/QC purposes and will not accept any submittals which have not been certified by the Design-Builder to be in compliance with the Contract requirements, and will return any non-certified submittals to the Design-Builder. Any delays caused by the Design-Builder's failure to so certify shall be the total responsibility of the Design-Builder.
- 27.5.** With each submittal, the Design-Builder shall give the Engineer separate specific written notice of any variations between the Shop Drawing, Material Submittals or Sample submitted and the requirements of the Contract Documents. Additionally, the Design-Builder shall include a specific notation for City's acceptance of each such variation on each Shop Drawing, Material Submittals and Sample submitted.
- 27.6.** City's acceptance of Shop Drawings, Material Submittals and Samples shall be for the sole purpose of determining whether the Shop Drawings, Material Submittals and Samples will, after installation or incorporation into the Work, conform to the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole.

- 27.6.1.** City's acceptance shall not extend to means, methods, techniques, sequences, or procedures of construction, except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents.
  - 27.6.2.** City's review and acceptance of a separate item as such shall not indicate approval of the assembly in which the item functions.
  - 27.6.3.** City's review of Shop Drawings shall not relieve Design-Builder of the entire responsibility for the correctness of details and dimensions. The Design-Builder shall assume all responsibility and risk for any misfits and/or malfunctions due to any errors in the Design-Builder's submittals. Design-Builder shall be responsible for the dimensions and the design of adequate connections and details.
- 27.7.** City's acceptance of Shop Drawings, Material Submittals or Samples shall not relieve the Design-Builder from responsibility for variations from the requirements of the Contract Documents, unless:
- 27.7.1.** The Design-Builder in writing called attention to each such variation at the time of submission of the Shop Drawing, Material Submittals or Sample; and
  - 27.7.2.** City has specifically accepted in writing, either on the Shop Drawing or accompanying the Sample or Material Submittal each such variation.
- 27.8.** The Design-Builder shall be solely responsible for any costs arising from the Design-Builder's failure to submit and/or receive City's acceptance of a Shop Drawing, Material Submittal or Sample as required by the Contract Documents or the City-accepted schedule of Shop Drawings and Sample submissions.
- 27.9.** Shop Drawing Submittal Procedures:
- 27.9.1.** The Design-Builder shall submit 3 copies of each approved Shop Drawing to the Engineer for QA/QC purposes.
  - 27.9.2.** The Design-Builder shall use a separate transmittal form for each specific item or class of material or equipment for which a submittal is required. The Design-Builder may use a single transmittal form for multiple items only when the items taken together constitute a manufacturer's "package" or are so functionally related that expediency indicates review of the group or package as a whole. The Design-Builder shall collate a multiple-page submittal into sets, and each set shall be stapled or bound, as appropriate, prior to transmittal to the Engineer.

- 27.9.3.** The Design-Builder shall use a Project-standard transmittal form accepted by the Engineer. The transmittal form shall identify the Design-Builder and include the date of the submittal, the information prescribed by the form, and a unique sequential number in a format approved by the Engineer. If applicable, the Design-Builder shall process transmittal forms to record actions regarding sample installations.
- 27.9.4.** For each submittal and using a label and/or a rubber stamp, the Design-Builder shall include the following information in the same or a substantially similar form: The Engineer will return at least one copy of each submittal with City's written comments to the Design-Builder within 20 Working Days following receipt of the submittal by the Engineer. If the Design-Builder fails to provide a complete and acceptable first re-submittal, as determined by the Engineer, City may deduct from the Contract Price the costs of City review beyond the first re-submittal.

Submittal No.
Contract No.
Project Name:
Name of Design Builder:
Reviewed and Approved for Conformance with the Contract Documents:
Printed Name: _____
By: _____ (Signature)
Reference Drawing Sheet No's:
Reference Spec Section No's:

- 27.9.5.** Corrections indicated on submittals shall be considered as changes necessary to meet the requirements of the Contract Documents and shall not be taken as the basis for changes to the Contract requirements. City shall not be liable for any costs associated with fabrication or manufacture of an item that occurs prior to City's acceptance of the associated shop drawing submittal.
- 27.9.6.** The Design-Builder shall maintain an accurate submittal log. The log shall show the current status of submittals and the Design-Builder shall make the submittal log available for City's review upon request.

**27.9.7. Submittal Format for Shop Drawings:**

1. For Shop Drawings presented on sheets larger than 11 inches by 17 inches, the Design-Builder shall include on each drawing the drawing title, number, date, and revision numbers and dates.
2. For Shop Drawings presented on sheets 11 inches by 17 inches or less, the Design-Builder shall conform to the format and quantity requirements for product data, and present the Shop Drawings as a part of the bound volume for the submittals required by this Section.
3. Except for diagrams and schematic drawings, Design- Builder shall prepare dimensioned drawings to scale. The Design-Builder shall identify materials and products for work shown.
4. The Design-Builder's Shop Drawings shall be not less than 8½ inches by 11 inches nor more than 30 by 42 inches.
5. The Design-Builder shall submit detailed drawings and descriptions of proposed deviations from details or component arrangement indicated on the Shop Drawings.
6. The Design-Builder shall provide finished drawings for City review indicating proposed installation of Work, and materials and equipment being furnished.
7. City will not accept Shop Drawings that are either:
  - i) Copies of plans; or
  - ii) Materials or equipment identified solely by catalog numbers.
8. To enable City's acceptance, the Design-Builder shall ensure that the data shown on Shop Drawings is complete with respect to dimensions, design criteria, material of construction, and other detail. Incomplete submittals will be rejected.

**27.9.8. Submittal Format for Product Data:**

1. The Design-Builder shall present product data submittals for each specification section as a complete, bound volume, including a table of contents that lists page and catalog item numbers for product data.
2. The Design-Builder shall clearly indicate each product that is being proposed for use by inserting a stamped arrow, cloud, or other prominent notation that identifies the pertinent specification section and paragraph numbers. City will reject product data submittals that are not clearly marked.



3. If product data satisfying submittal requirements does not exist, the Design-Builder shall create and submit to City the required product data, including a notation that the product data was created specifically for the Project.
4. The Design-Builder shall furnish to City catalog data that describes in detail the products being furnished and enables the Engineer to determine that the products submitted conform to the requirements of the Contract Documents.
5. If more than one style, size, capacity, etc. of a product appears on a sheet, the Design-Builder shall clearly indicate exactly which product type is being submitted for approval. City will reject any submittal that fails to conform with this requirement
6. The Design-Builder shall ensure that the catalog data identifies the manufacturer of the product.

**27.9.9.** Submittal Format for Samples: The Design-Builder shall label or tag each sample, identifying the specification Section number, manufacturer's name and address, brand name, product identification number, and intended use in the Work.

**27.9.10.** If The Design-Builder receives the prior written approval of the Engineer, the Design-Builder may submit Shop Drawings and Samples during the design process beginning at the 60 percent design level. The Design-Builder shall request such early submittal by submitting a RFI. The Design-Builder shall conform to all other requirements and procedures regarding Shop Drawings and Samples.

**28. Design Development:**

**28.1.** The Design-Builder shall design the Project in compliance with all applicable laws, City and other local, state, and federal standards, and applicable industry standards and codes, including but not limited to those specifically set forth in the Contract Documents, the Municipal Water Approved Materials List, City noise and air pollution emissions regulations, applicable hazardous material handling and disposal regulations, the City's policies, and all other Reference Specifications approved by City at the time of Award.

**28.2.** The Design-Builder shall prepare and submit design packages for review and acceptance by City in accordance with City's guidelines and the Project Schedule. The Design-Builder's use of City's guidelines shall not reduce, change, mitigate, or absolve the Design-Builder's responsibility for the Project design in any way. The Design-Builder's acts of stamping and signing the drawings, specifications, calculations, or other final design documents shall mean that the Design-Builder understands, accepts, and approves all measures contained in or implied by City's guidelines.

- 28.3.** The Design-Builder shall use the Bridging Documents as the starting point for Project design. The Final Design shall be based on the concepts in these documents. The Design-Builder shall review the Bridging Documents and verify the data and recommendations (i.e., proposed alignments and conceptual plans) prior to including them in the Project design. The Design-Builder shall perform the engineering tasks necessary to refine and optimize the Project, including but not limited to reevaluation and necessary modification of questionable/pending proposed alignments contained in the Bridging Documents.
- 28.4.** The Design-Builder shall submit the Final Design documents to the Engineer. In addition to the deliverables specified in subsection 30.7 the Final Design documents shall also include but not be limited to:
- 28.4.1.** One complete set of full sized (24 inch by 36 inch) original mylar final drawing plots, each stamped and wet signed by qualified responsible engineers registered in the state of California. Applicable portions of the drawing title blocks shall also be signed by the Design-Builder.
  - 28.4.2.** Two complete electronic file sets of all final drawings on CD-Rewritable (RW) recordable disks in Bentley MicroStation Version V8 SE format.
  - 28.4.3.** One, 8½ inch by 11 inch, final specifications, including all charts, graphs, tables, data sheets, and similar inserts required for a complete and approved copy suitable for Xerox reproduction.
  - 28.4.4.** Two complete electronic file sets of the final specifications in MS Word processing software format.
  - 28.4.5.** One complete set of engineering calculations and quantity take-offs, including hydraulic, calculations, each wet stamped and signed by qualified responsible engineers registered in the state of California. All elements of the Final Design presented shall be supported by calculations. All computer programs used in development of Project calculations shall be Windows compatible. Catalog cuts and manufacturer's data shall be provided for each approved material listed in the specifications or identified on the drawings, and shall be included with the final Project calculations.
  - 28.4.6.** A written list of required Shop Drawings (construction submittals) and Samples and an electronic file of the list on a recordable CD-RW in the latest version of MS Word processing software.
  - 28.4.7.** Other reports and documents as may be required by City.
- 28.5.** Procedures and time allowances for City's review of the design submittal, response by the Design-Builder to City's comments, and obtaining City's authorization to proceed to the next level of design shall be as stated in this Scope and the Project Schedule.

- 28.6.** In coordination with Traffic Section of Construction Management and Field Services, the Design-Builder shall develop a traffic control plan and local access management plan that minimizes environmental and traffic impacts, including noise impacts, to residences, businesses, and institutions. The final traffic control plan must be approved by City's Traffic Section of Construction Management and Field Services. The Design-Builder shall maintain an appropriate level of access and site security at all Project facilities to avoid significant impacts to the public.
- 28.6.1.** After the alignment of a Project is finalized, the Design-Builder shall meet with the Traffic Plan Check Supervisor to determine which sections of the roadway, if any, will require formal traffic control plans and which sections can be adequately addressed using shop drawings developed by the Design-Builder prior to construction.
- 28.6.2.** The Design-Builder shall prepare a preliminary traffic control approach for City's review and approval prior to preparation of traffic control plans.
- 28.6.3.** The Design-Builder shall complete and update a Traffic Control Plan Information Sheet available from the City.
- 28.6.4.** The Design-Builder shall include Typical Cross Sections on traffic control plans identifying the construction work areas if required by Traffic Engineering.
- 28.6.5.** The Design-Builder shall address and include in the traffic control plans and specifications coordination of traffic control among adjacent Projects during construction.
- 28.6.6.** The Design-Builder shall obtain approval for traffic control plans.
- 28.7.** The Design-Builder shall provide designs for the relocation of public or private utilities which must be constructed or relocated as a result of the Project.
- 28.8.** The Design-Builder's design shall comply with the ADA and Title 24. The Design-Builder shall complete and submit an ADA Compliance Review Checklist available from the City.
- 28.9.** The Design-Builder shall prepare and incorporate into the specifications, a Storm Water Pollution Plan (SWPPP) or Water Pollution Control Plan (WPCP), as applicable, to be implemented during construction. The SWPPP/WPCP shall comply with the California Regional Water Quality Control Board Statewide General Construction Storm Water permit current requirements.
- 28.10.** The Design-Builder shall prepare a construction quantity takeoff at 60%, 100% and Final submittals.

The Design-Builder shall revise plans and specifications to incorporate comments received from the City, City-wide plan check and from the permitting agencies.

**29. Design Submittals:**

**29.1.** General: The Design-Builder shall ensure that all design submittals conform to the requirements described in this Section. City will reject any submittal that fails to meet the requirements described in this Scope and elsewhere in the Contract. City shall not grant a schedule adjustment for the Design-Builder's failure to meet these requirements. In each submittal the Design-Builder shall identify any variances from the Contract Documents. City may reject any design submittal for the Design-Builder's failure to identify variances, regardless of the timing of the discovery of the failure. The Design-Builder shall respond in writing to all City comments on each design submittal within 10 Working Days of the date of transmittal of the comments. The Design-Builder shall submit a completed QA/QC checklist at each design submittal.

**29.2.** 30 percent design Submittal - The 30 percent design submittal shall include but not be limited to:

**29.2.1.** Designs for construction of new facilities and for refurbishment and demolition of existing facilities.

**29.2.2.** Incorporation of the information contained in the Bridging Documents.

**29.2.3.** Reviewed preliminary calculations and hydraulic calculations.

**29.2.4.** Drawings that shall include at a minimum:

1. Title sheet with general notes, vicinity map, key map, and legend.
2. Preliminary list of construction drawings on cover sheet.
3. Locations of existing public and private utilities within the Project area on plan and profile.
4. Preliminary site plan including construction staging areas (if applicable)
5. Other drawings, as applicable to show information from pre-design maps.
6. List of special conditions, if any.
7. Drawings shall show all existing topographic and utility information and the horizontal alignment of proposed pipeline improvements with sizes.
8. Traffic control concept plans (traffic control approach) if applicable.
9. Specification table of contents prepared in The GREENBOOK format.

- 29.3.** 60 percent design Submittal - The 60 percent design submittal shall include but not be limited to:
  - 29.3.1.** Designs for construction of new facilities and for refurbishment and demolition of existing facilities.
  - 29.3.2.** Updated and incorporated information and comments from the 30 percent design submittal.
  - 29.3.3.** Completed and reviewed calculations, hydraulic calculations, calculations for horizontal and vertical control for pipeline alignment, and backfill and bedding design.
  - 29.3.4.** Location of construction staging areas (if applicable).
  - 29.3.5.** A written list of permits required for the Project, identifying all permitting agencies and authorities having jurisdiction.
  
- 29.4.** Drawings that shall include at a minimum:
  - 29.4.1.** Updated plan and profile sheets for the sewer and water improvements, and construction details and notes.
  - 29.4.2.** Identification of both special and standard details.
  - 29.4.3.** A complete list of construction drawings on cover sheet.
  - 29.4.4.** Definition of the construction method to be used for pipe installation.
  - 29.4.5.** A complete site plan including construction lay down areas, site grading, and erosion control, if applicable.
  - 29.4.6.** Other drawings such as corrosion, paving and stripping, curb ramps, abandonment plans and traffic control plans as applicable.
  - 29.4.7.** Erosion control plan, storm water pollution prevention BMP's, landscaping plan, and habitat restoration, success criteria, long term maintenance, and conformance to the Multiple Habitat Planning Area land use adjacency guidelines as applicable.
  - 29.4.8.** List of special conditions, if any.
  - 29.4.9.** Quantity take-off per plan sheet.
  - 29.4.10.** A complete draft of specifications in The GREENBOOK format including:
    - 1. Table of contents.
    - 2. The Design-Build Special Provisions.

- 29.5. 100 percent design Submittal - The 100 percent design submittal shall include but not be limited to:
  - 29.5.1. Designs for construction of new facilities, and refurbishment and demolition of existing facilities.
  - 29.5.2. Updated and incorporated information and comments from the 60 percent design submittal.
  - 29.5.3. Completed, reviewed, and bound calculations and hydraulic calculations.
  - 29.5.4. Updates to geotechnical report, if any.
  - 29.5.5. Permit applications as necessary.
  - 29.5.6. Completed specifications in Green-book format.
  - 29.5.7. Quantity take-off.
  - 29.5.8. Drawings in all disciplines, including final and traffic control Plans approved by City, if any.
  - 29.5.9. A current written list of permits including environmental permits and revised MND required for the Project, identifying all permitting agencies and authorities having jurisdiction, and status and copies of permit approvals.
- 29.6. **Final Design Submittal** - The Design-Builder shall submit a pre-Final Design to the Engineer, which shall include but not be limited to:
  - 29.6.1. Updated and incorporated information and comments from the 100 percent design Submittal.
  - 29.6.2. Comments from permitting agencies, including a log of comments and responses.
  - 29.6.3. A current written list of permits including environmental permits and revised MND required for the Project, identifying all permitting agencies and authorities having jurisdiction, and status and copies of permit approvals.
  - 29.6.4. City will review the Pre-Final Design and return comments to the Design-Builder. The Design-Builder shall, within 20 Working Days of receipt of City's comments, submit a Final (100%) Design to the Engineer, which shall include but not be limited to:
    - 1. Updated and incorporated comments from the Pre-Final Design Submittal.

2. Final drawings and calculations must be stamped and signed by a professional engineer. Also, the City requires the original wet-signed mylars be held in City files as legal records of the Project.

**29.6.5.** Final design drawings for construction of new facilities, and refurbishment and demolition of existing facilities.

**29.7. Design Submittal Deliverables:**

**29.7.1.** The Design City Engineer in the form of 6 copies of the specifications, 6 sets of half sized (11 inch by 17 inch) drawing prints, and 14 sets of full sized (24 inch by 36 inch) drawing prints.

1. Drawing format shall conform to the City of San Diego CADD Standards and City provided "T" files. The standard scales are 1"=40' for plans and 1"=4' for profiles.
2. Drawings shall show all existing topographic and utility information and the horizontal alignment of proposed pipeline improvements.

**29.7.2.** The Design-Builder shall deliver the pre-Final Design to the Engineer in the form of 6 copies of the specifications and 14 sets of half sized (11 inch by 17 inch) drawing prints.

**29.7.3.** The Design-Builder shall submit all drawings in Bentley MicroStation V8 SE format per City's CADD Standards. The Design-Builder shall attend a coordination/orientation meeting with City's E&CP CADD specialist to review and discuss City's CADD standards. The Engineer will arrange for the meeting upon The Design-Builder's request. The Design-Builder shall also submit the Electronic In-Roads ALG file. The Design-Builder shall number proposed alignment points on plan views using the automated process through In-Roads Software. The Design- Builder shall also generate the Horizontal Alignment Coordinate Index report through In-Roads and place it on the last sheet of the drawings.

**29.7.4.** The Design-Builder shall submit the Final Design documents to the Engineer, which shall include but not be limited to:

1. One complete set of full sized (24 inch by 36 inch) original mylar final drawing plots, each stamped and wet signed by The Design-Builder's qualified responsible engineers registered in the state of California. Applicable portions of the drawing title blocks shall also be signed by The Design-Builder.
2. Six, 8½ inch by 11 inch copies of the final specifications, including all charts, graphs, tables, data sheets, and similar inserts required for a complete and approved copy suitable for Xerox reproduction.

3. Two complete electronic file sets of the final specifications.
4. Two complete electronic file sets of the final drawings on CD-RW.
5. Six complete and approved 8½ inch by 11 inch copies of the final construction cost estimate.
6. Two complete electronic files of the final construction quantity takeoffs and cost estimate.
7. Six complete sets of engineering calculations, including hydraulic, mechanical, electrical, and structural calculations, each wet stamped and signed by the Design-Builder's qualified responsible engineers registered in the state of California. The Design-Builder shall support all elements of the design presented by calculations the Design-Builder shall use only Windows compatible computer programs for Project calculations.
8. Other documents as required elsewhere in this Scope or required by the Engineer.
9. The Design-Builder shall use the following table as a minimum guide for preparation of the design drawings:

<b>30% Submittal</b>	
<b>Title Block:</b>	Drawing Number Title WBS Number
<b>General:</b>	North Arrow Scale
<b>Existing Plan:</b>	Ownership Lines Water Services and appurtenances Sewer Laterals and appurtenances Electric Lines, Boxes and Services Telco Lines, Boxes and Services Street Center Line Fire Services Lot Lines Right of Way Lines



	Street Names Stationing Trolley Tracks
<b>30% Submittal</b>	
<b>Existing Profile:</b>	Existing Water Mains Horizontal and Vertical Scale Elevation Scales Existing Grades / Existing Pavement Existing Utility Crossings with Elevations Street Names

<b>60% Submittal</b>	
<b>Title Block:</b>	Street Names and Limits
<b>General:</b>	Cover Sheet – Limits of Work
<b>Proposed Plan:</b>	Dimensioning Addresses Stationing Plugs and Dead End Details Pipe Sizes and Lengths Sewer Laterals Manholes
<b>Proposed Profile:</b>	Stationing Pipe Size and Lengths
<b>Sewer:</b>	Manhole with Inverts
<b>Final Submittal (100%)</b>	
<b>Title Block:</b>	Lambert Coordinates Designer's / Drafter's Name Number of Street
<b>General:</b>	Street Name (RT Margin) Proposed Pipe Data Table Proposed Coordinate Table Construction Notes Details Reference Data Retirement Data

<b>Proposed Plan:</b>	Special Plan Notes Subdivision Name Subdivision Map Number Block Numbers Street Closures Caution Call-outs Split-Property
-----------------------	---

<b>Final Submittal (100%)</b>	
<b>Proposed Profile:</b>	Special Profile Notes Traffic Control Plans
<b>Additional Sheets</b>	Applicable to 30%, 60% and Final (100%) Resurfacing Alignment Sheet BMP, Storm Drain Inlet Protection Plan Curb Ramp Sheet(s) Abandonment Plan Miscellaneous Details

29.8. The Design-Builder shall use MS Word format for all word processing.

29.9. The Design-Builder shall use MS Excel for all spreadsheets.

**30. Community Relations and Public Outreach Program:**

30.1. The Design-Builder shall provide the necessary public information and outreach program for the Project. This program shall have a Public Information Officer (PIO) who will serve as the community liaison. Refer to The WHITEBOOK, section 7-16. The PIO shall work closely with the Communication Department's PIO section in the implementation of the public information and outreach program standards.

30.2. The Design-Builder shall identify, within 10 Working Days of NTP, a specific professional designated to be a full-time public information liaison for the design build team, who shall work cooperatively with, and provide assistance to, the City's team. The Design-Builder shall be available to respond to questions from the community as needed for the duration of the Project, and shall participate in related public meetings. The Design-Builder shall prepare and provide presentation materials to explain the Project at community meetings and presentations.

- 30.3. The Design-Builder shall prepare a complete Community Relations Plan. The Community Relations Plan shall be developed in coordination with the City and presented to the City for review within 30 Working Days of Notice to Proceed. If modifications are required, the City will notify and advise the Design-Builder.
- 30.4. The Key stakeholders are identified as the public and the City of San Diego, San Diego Unified School District, San Diego Metro Transit System, the Encanto Neighborhoods Community Planning Group, and the Skyline-Paradise Hills Community Planning Committee. The proposed water main alignment crosses near Bethune Elementary School, Fulton Elementary School, and Morse High School. The Design-Builder shall coordinate (during design and construction) all activity and Right of Entry permit with the proper school representative.
- 30.5. The Community Relations Plan shall include the following scope and services but not limited to:
  - 30.5.1. A method for conveying Project information to the public. Provide residents with update Project information and background information about the Project. Information shall be updated weekly, bi-weekly, monthly, or quarterly.
  - 30.5.2. A method for construction notification in advance of the start of work.
  - 30.5.3. Attendance and presentation of Project update before and during construction of Projects at community and stakeholder Meetings. Prepare presentation materials in coordination with the City.
  - 30.5.4. Develop written list of follow-up information requested from the community.
  - 30.5.5. Respond to telephone calls and e-mails. Standard telephone service and e-mail responses. Record calls and e-mails on electronic tracking form.
  - 30.5.6. E-mail record of call information to The Design-Builder/Project Team. E-mail updates to stakeholders, Community Groups, City Council and other interested parties.
  - 30.5.7. Create and maintain online Project webpage and newsletters.
  - 30.5.8. Write, edit, update and/or produce brochures, pamphlets and news releases.
  - 30.5.9. Attend progress meeting and provide status of community relations activities.
  - 30.5.10. The plan shall also include a listing of businesses, schools, and major facilities along the alignment which are expected to be impacted by the construction, and proposed mitigation measures to lessen construction impacts.

- 30.5.11. The plan shall specifically identify the lines of communication within the Design-Builder Team, between the Design-Builder Team and the City and between the Design Builder's public information liaison and the City. The Design-Builder shall be responsible for ensuring that the information to be provided to the public is consistent, updated and accurate.
- 30.5.12. Coordinate with the appropriate representatives from the affected schools to determine the time restrictions for work performed within close proximity to said schools.

**31. Quality Assurance and Control:**

- 31.1. The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control. The minimum acceptable quality assurance and quality control plan is described in the Quality Assurance/Quality Control Plan Guidelines, attached hereto and incorporated herein as Attachment A, section 32 - Quality Assurance / Quality Control Guidelines.
  - 31.1.1. Design QA/QC - The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control [QA/QC] during design.
  - 31.1.2. Checklists - As part of the QA/QC Plan, The Design-Builder shall use the City-provided checklists and attach the checklists to the plans and specifications.
  - 31.1.3. Final Design - The Design-Builder shall submit QA/QC records for the final specifications and drawings to verify coordination within the engineering discipline, between engineering disciplines, between the final specifications and drawings, and to verify consistency with existing City Projects.
  - 31.1.4. Construction QA/QC - The Design-Builder shall be completely and solely responsible for Project QA/QC during construction.

**32. Quality Assurance / Quality Control Guidelines:**

**32.1. General**

- 32.1.1. The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control, both during design and during construction. This Attachment outlines the minimum requirements for an acceptable quality assurance and quality control plan [QA/QC Plan]. The cost for the Design-Builder's QA/QC Plan and its implementation shall be included in the Design-Builder's Proposal.
- 32.1.2. The Design-Builder shall assign a QA/QC supervisor to ensure that all Work is performed in accordance with the Contract Documents, plans, specifications, manufacturers' instructions, Applicable Laws, and to acceptable industry standards.

- 32.1.3.** The Engineer will monitor the Design-Builder's Work and Services and provide independent reviews as set forth in the Contract Documents. If City's review or inspection uncovers Work or Services that do not conform to the Contract Documents or Applicable laws, City may reject that Work and/or Services and The Design-Builder shall replace or correct any deficiency at no additional cost to City.
- 32.1.4.** The concept of quality has evolved from conformance with specifications to meeting Owner requirements. The Design-Builder quality assurance and control has advanced from checking deliverables to multiple reviews, evaluations, inspections, and tests, concurrent with the Public Works Department reviews, oversight inspections, witnessing of tests, and similar quality assurance activities. Ultimately, the Design-Builder shall provide a facility that meets all the requirements described in the Contract Documents.
- 32.1.5.** The Design-Builder shall respond to any QA/QC review comments by ensuring that the Design-Builder's staff considers the comments and notes the actions to be taken. The Design-Builder shall submit copies of the responses to the Engineer to indicate that the QA/QC review is complete and that the reviewers concur with the response.
- 32.1.6.** If the Design-Builder detects any impending deviations from the Scope, Project Schedule, or Project budget, the Design-Builder shall take appropriate action to correct such deviations or to obtain written approval from the Engineer if deviations cannot be avoided.
- 32.1.7.** The Design-Builder shall implement its QA/QC Plan that was submitted to City with The Design-Builder's RFP together with any revisions required by City, all of which are incorporated herein by this reference as though fully set forth herein.

## **32.2. QA/QC During Design**

- 32.2.1.** This section describes the mandatory QA/QC Plan philosophies and procedures that the Design-Builder shall follow during design of the Project.
- 32.2.2.** The Design-Builder is the engineer of record. City's review of Design-Builder's approved submittals is for the sole purpose of determining whether the submittals conform to the requirements of the Contract and to the Bridging Documents.
- 32.2.3.** The Design-Builder shall include in its Proposal all costs necessary to meet this requirement.

**32.2.4.** The following quality objectives apply to the Project design:

1. The Design-Builder shall design the Project facilities to meet the scope and objectives set forth in the Bridging Documents, which describe the Project facilities in moderate detail (layout, functions, etc.), thereby establishing the design requirements. The Design-Builder shall design the Project facilities to conform to these requirements except as modified by changes approved by City during design.
2. The Design-Builder shall design the Project facilities to conform to the requirements of the Contract Documents.
3. The Design-Builder shall prepare the Construction Documents to the standards of best engineering practice for clarity, uniformity, accuracy, and completeness.
4. The Design-Builder shall emphasize quality in the design and construction of the Project.

**32.3. QA/QC Plan:**

**32.3.1.** Responsibilities: The Design-Builder shall ensure that all members of the Design-Builder's Project team (i.e., preparer, reviewer, checker, and approver) understand their responsibility for quality design.

**32.3.2.** Design QA/QC Plan: The Design-Builder shall ensure that the design component of its QA/QC Plan includes a specific comprehensive approach to Project QA/QC Plan activities and requires documentation of the actual QA/QC Plan effort and related activities.

**32.3.3.** Design Review: The Design-Builder shall address all plan check comments received from the City and implement its QA/QC plan prior to re-submittals to the City for review. The Design-Builder shall submit documentation of the QA/QC efforts and related activities as discussed in Review and Comment Form, subsection 33.3.8.

**32.3.4.** Implementation: The Design-Builder shall be solely responsible for quality reviews and approval of its design work, and shall ensure that all design work is thoroughly checked, reviewed, and approved by qualified, experienced, knowledgeable personnel who were not involved in the original design work. The Design-Builder shall provide the following types of QA/QC design reviews:

**32.3.5.** Calculations:

1. The Design-Builder shall ensure that calculation sheets are signed and dated by the personnel preparing, checking, reviewing, and approving the calculations. The Design-Builder shall index all original calculation sheets in file folders maintained in a single location so that all original calculations for the entire Project can be readily found. At the time the Final Design is accepted by City, The Design-Builder shall submit to the

Engineer a legible copy of all calculations, organized in an easy to use indexed loose-leaf binder or in clearly identified file folders.

2. The Design-Builder shall clearly identify any revisions to the calculations. The Design-Builder shall ensure that all revised calculations are checked, signed and cross-referenced to the original calculations.

**32.3.6.** The Design-Builder's Interdisciplinary Progress Reviews: The Design-Builder shall ensure that interdisciplinary progress reviews are held at the 30%, 60%, 100%, Final Design phases and as specified in this RFP, and that the reviews include all completed calculations, drawings, and specifications. The level of detail expected for each discipline at each completion level is defined in this RFP. The Design-Builder shall ensure that all comments receive an agreed upon response and are recorded on The Design-Builder's Review and Comment Form (subsection 33.3.8). Design problems may arise from inconsistencies between disciplines. The Design-Builder shall assign one or more qualified engineers to perform detailed interdisciplinary reviews to ensure consistency between disciplines, and between drawings and the specifications.

**32.3.7.** The Design-Builder's Final Review: The Design-Builder shall conduct the final QA/QC review after all 100% review comments have been incorporated and before printing of the Final Design submittal begins. The Design-Builder's final QA/QC review shall confirm that all previous review comments have been incorporated.

**32.3.8.** Review and Comment Form: The Design-Builder shall establish and maintain Review and Comment Forms which shall contain the following information:

1. The name of the Project;
2. City's contract number;
3. The type of review being conducted;
4. The name/title of the document being reviewed;
5. Identification of the page, paragraph, or drawing being reviewed;
6. The reviewer's comments;
7. The designer's response to the reviewer's comments;
8. The agreed upon resolution with respect to the comments and response;
9. The reviewer's signature and date of review;
10. The designer's signature and date of response; and
11. The signature of the Design-Builder's Project manager and date of review.

**32.3.9.** The Design-Builder shall ensure that each reviewer's comments are constructive and professional in tone, and that the forms are complete and appropriately filed.

**32.4. QA/QC During Construction**

**32.4.1.** The Design-Builder shall ensure that all Work meets the quality required by the Contract Documents and shall perform the QA/QC efforts necessary to ensure those requirements are met. City's inspection of any Work will not relieve the Design-Builder of the primary responsibility for quality assurance and quality control.

**32.4.2.** The Design-Builder shall take the following measures to ensure that the Work is completed in accordance with the Contract Documents:

1. Certification by the designer that the submittals, materials, equipment, and Work all conform to the accepted design.
2. Certification by the vendors and suppliers that the products supplied conform to the Contract Documents, where applicable.
3. Photos and videos of the Work certified by the designer.
4. Any other measure designed to ensure that the Work is completed in accordance with the Contract Documents.

**32.4.3.** Specific QA/QC requirements for the Work are set forth throughout the Contract Documents. The requirements of this Section are primarily related to performance of the Work beyond the furnishing of manufactured products the Design-Builder agrees that the term "Quality Control" as used herein includes inspection, sampling and testing, and associated requirements.

**32.4.4.** Factory Inspections and Tests:

1. The Design-Builder agrees that all products, materials, and equipment, shall be subject to inspections, tests, and witness tests by City at the place of manufacture or fabrication.
2. The Design-Builder agrees that City may, at its option, enter into separate contracts with consultants or others to conduct inspections, tests, and witness tests on behalf of City.
3. The Design-Builder agrees that the presence of City, its employees, agents, and/or representatives at inspections, tests, and/or witness tests shall not relieve the Design-Builder of the sole responsibility for providing products, materials, and equipment that comply with all requirements of the Contract Documents. The Design-Builder agrees that compliance is the responsibility of the Design-Builder and shall



not be avoided by any act or omission on the part of City or its employees, agents, and/or representatives.

4. The Design-Builder shall provide City with 10 Working Days advance notice of any testing at the place of manufacture or fabrication. At City's option, City, its employees, agents, and/or representatives may conduct inspections and tests at the manufacturing place any time without advance notice to the Design-Builder.

**32.4.5. Sampling and Testing:**

1. Unless specifically provided otherwise in the Contract Documents, the Design-Builder shall conduct all sampling and testing in accordance with the methods prescribed in the current standards of the ASTM, as applicable to the class and nature of the material, product, or equipment being considered. However, City may accept any other generally-accepted system of sampling and testing that will ensure that the quality of the material, product, or equipment complies with the requirements of the Contract Documents. The Design-Builder shall obtain a Change Order from the Engineer prior to using any other generally-accepted system of sampling and testing.
2. Any waiver by City of any specific testing or other QA/QC Plan measures shall not be binding on City except when formalized by a fully executed Change Order, regardless of whether the waiver is accompanied by a guarantee of substantial performance as a relief from the specified testing or other QA/QC requirements as originally specified, and of whether the guarantee is accompanied by a performance bond to assure execution of any necessary corrective or remedial work.
3. The City may inspect and make independent investigations and tests of the Work. The Design-Builder agrees that if any portion of the Work fails to meet any of the requirements of the Contract Documents, City may require the Design-Builder to remove, correct, or reconstruct the Work in accordance with the Contract Documents.

**32.4.6. Inspection and Testing Laboratory Service:**

1. The City may require that Work located in the City right-of-way be tested by the City's testing laboratory. The Design-Builder shall coordinate with the Engineer to cause such tests to be performed.
2. Inspections, testing, and other services that are to be performed by the City, whether specified in the Contract Documents or required by the Engineer, will be performed by City's testing laboratory. The cost of these services will be paid for by City.

3. City's testing laboratory will submit reports in duplicate to the Engineer. The reports will document observations, results of tests, and compliance or non-compliance with the Contract Documents.
4. The Design-Builder shall cooperate with the Engineer and City's Testing Laboratory by furnishing samples of materials, concrete design mix, equipment, tools, and storage, and by providing other assistance as requested by City.
5. The Design-Builder shall notify the Engineer 48 hours prior to commencement of Work requiring inspection and laboratory testing services.
6. The Engineer will direct that any retesting required because of non-conformance to the Contract Documents be performed by the laboratory that performed the original test. Design- Builder shall bear all costs from any such retesting at no additional cost to City.
7. The Design-Builder shall be responsible for all tests required by the specifications or referenced codes and standards, unless specifically noted otherwise in the Contract Documents.

**32.4.7. Special Inspection:**

1. The Design-Builder shall provide all special inspections required by the California Building Code as currently adopted by City, including all inspections performed off the Project Site, when applicable. The Design-Builder shall pay the cost of such inspections, and shall include the cost in DB's Proposal.

**32.4.8. Installation:**

1. Inspection: The Design-Builder shall inspect materials and/or equipment upon their arrival at the Project Site and immediately prior to installation. The Design-Builder shall reject damaged and defective materials and/or equipment. The Design-Builder's inspection shall include:
  - i) A review of the Contract requirements;
  - ii) Verification that all materials and/or equipment have been tested, submitted, and approved;
  - iii) Examination of the Work area to ascertain that all preliminary Work has been completed;
  - iv) A physical examination of materials and/or equipment to ensure that they conform to the Design-Builder approved and City-accepted Shop Drawings or other submittal data;

- v) Instruction as necessary to ensure that Design-Builder's workers understand the requirements of the Contract as they pertain to the materials and/or equipment;
  - vi) An examination of the quality of workmanship; and
  - vii) A review of control testing for compliance with the Contract requirements.
2. Measurements: The Design-Builder shall verify measurements and dimensions of the Work as an integral step of starting each installation. The Design-Builder shall be solely responsible for proper fit up and connection of components.
  3. Special Procedures: The Design-Builder shall provide methods and facilities to ensure conformance with requirements for special process specifications such as nondestructive testing of materials. The Design-Builder shall maintain certifications for personnel, procedures, and equipment as necessary to meet the requirements of the Contract Documents and all Applicable laws.
  4. Manufacturer's Instructions: The Design-Builder shall comply with applicable manufacturer's instructions and recommendations for installation, if those instructions and recommendations are more explicit and/or more stringent than the requirements of the Contract Documents.
  5. Storage and care: If not immediately installed, the Design-Builder shall store and care for all materials and/or equipment delivered to the Project Site according to the manufacturer's recommendations.

**32.4.9. Manufacturer's Field Installation Services and Reports:**

1. When required by the specifications, the Design-Builder shall cause material or product suppliers or manufacturers to provide qualified personnel to:
  - a) Observe and evaluate:
    - (i) Project Site conditions;
    - (ii) Conditions of surfaces and installation;
    - (iii) Quality of workmanship;
    - (iv) Start-up of equipment; and
    - (v) Testing, adjusting, and balancing of equipment.
  - b) Provide instructions when necessary.

2. The Design-Builder shall report in writing to the Engineer any observations and Project Site decisions or instructions given to the Design-Builder by a material or product supplier or manufacturer's personnel that are supplemental or contrary to the written instructions of the material or product supplier or manufacturer.
3. Within 10 Working Days of each field visit, The Design-Builder shall submit in duplicate to the Engineer for review and acceptance final reports from a material or product supplier or manufacturer's personnel. If the duration of the field visit is greater than 1 week, the Design-Builder shall submit weekly reports. Each final report shall certify that equipment or system has been satisfactorily installed and is functioning correctly.

**32.4.10. Sample City QA/QC Checklists:**

1. Sample City Checklists are available for review and use from the Engineer.

**33. Noise Abatement and Control:**

- 33.1.** The Design-Builder shall comply with San Diego Municipal Code, Noise Abatement and Control (Sections 59.5.0401, Sound Level Limits, and 59.5.0404, Construction Noise), and the County of San Diego Code of Regulatory Ordinances, Noise Abatement and Control. In the event of conflict, the most stringent requirement shall apply.
- 33.2.** Noise levels generated by construction activity shall not exceed an average of 75 decibels at the residential property line between the hours of 8:30 AM to 3:30 PM each Working Day. The Design-Builder shall obtain a Noise Permit to conduct work activities taking place before 7:00 AM or after 7:00 PM, each Working Day, or any time on days other than Working Days.
- 33.3.** If the Design-Builder desires to conduct Work activities during times when a Noise Permit is required, the Design-Builder shall obtain prior written authorization from the Engineer not less than 48 hours in advance, and shall apply for, obtain, and pay for the Noise Permit at no additional cost to City.

**34. Project Meetings:**

- 34.1.** Progress Meetings – Design Phase - The Design-Builder shall schedule and hold regular progress meetings at least monthly and at other times as requested by the Engineer. Prior to a progress meeting, the Design-Builder shall submit its progress meeting format to the Engineer for review and acceptance. The Design-Builder shall also submit to the Engineer for review and acceptance:
  - i) A meeting agenda prior to each meeting; and
  - ii) Minutes of each meeting prior to the next meeting.

The Design-Builder shall ensure that its key personnel attend the progress meetings.

**34.2.** Progress Meetings – Construction Phase - The Design-Builder shall schedule and hold regular weekly progress meetings and at other times as requested by the Engineer. The Design-Builder shall report in writing to the Engineer the previous week's progress and the plans for the upcoming three weeks. Twenty-four hours prior to each progress meeting, Design- Builder shall provide to the Engineer a two-week window (look-ahead) schedule showing activities from the accepted Project Schedule that are to take place during this period, activities started but not yet completed, and activities which have begun out of sequence. Prior to a progress meeting, the Design-Builder shall submit its progress meeting format to the Engineer for review and acceptance. The Design-Builder shall also submit to the Engineer for review and acceptance:

- i) A meeting agenda prior to each meeting; and
- ii) Minutes of each meeting prior to the next meeting.

The Design-Builder shall ensure that its key personnel attend the progress meetings. In addition, the Design-Builder may, at its discretion, request attendance by representatives of its suppliers, vendors, manufacturers, and other subcontractors.

**34.3.** Public Meetings - During the course of the Project, a minimum of 2 of the Design-Builder's key personnel and the Engineer shall attend community meetings as part of the Design-Builder's community outreach program. Typically, these meetings are scheduled for two to four hours on weekday evenings. At a minimum, 1 meeting will be scheduled at 30 percent design review and the other just prior to construction. The Engineer may direct the Design-Builder to attend other meetings at no additional cost.

**34.4.** Other Meetings - From time to time during the Project, the Engineer may direct the Design-Builder to attend other meetings. These may include but are not limited to meetings with environmental or regulatory agencies, meetings with Water Operations, utility companies, and other City divisions or departments. These meetings shall be done at no additional cost.

**34.5.** The Design-Builder shall prepare and submit typical meeting minutes of all meetings including a list of attendees, contact information, proceedings, and all pertinent information.

**35. Red-lines:**

**35.1.** The Design-Builder shall be responsible for Red-lines as described in The WHITEBOOK, Section 2-5.4, Red-lines and Record Documents.

**35.2.** Prior to final completion, The Design-Builder shall prepare and submit one complete set of full sized (24 inch by 36 inch) original mylar final As-Built Drawing CADD plots in accordance with the City's CADD Guideline. Each CADD mylar drawing sheet shall be stamped and signed by qualified responsible engineers registered in the State of California, and shall be stamped and wet signed by the architect/engineer of record, as required by law. Other applicable portions of the drawing title blocks shall also be signed by the Design-Builder. Drawing mylar shall be 3 mils minimum thickness.

**35.3.** Prior to Final Completion, the Design-Builder shall also submit:

**35.3.1.** Five complete full-sized sets of blueprint or copies of the final As-Built's.

**35.3.2.** Two complete electronic file sets of the final As-Built's on CDs (typical) prepared in the V8 version of Bentley MicroStation Version SE CADD software in accordance with City's CADD Guideline.

**36. Record Keeping:**

**36.1.** The Design-Builder shall maintain in a safe place at the Project Site a copy of construction documents (including field test records, correspondence, daily reports, and written interpretations and clarifications), Shop Drawings, Product Data, and Samples in good order. Field Documents, Shop Drawings, Product Data, Samples, and similar submittals are not part of the Contract Documents. The purpose of these documents is to demonstrate construction conformance to the Contract Documents, and the City shall have the right to inspect, audit, review, and copy these documents at any reasonable time.

**36.2.** The Design-Builder shall not have the authority to approve a Sample or other submittal that is not in strict conformance with the Contract Documents or the accepted final design, unless City has accepted the substitute. No Work requiring a submittal or sample submission shall commence until the submission has been approved by the Design-Builder. A copy of each approved submittal and each approved sample shall be kept in order by the Design-Builder at the Project Site.

**36.3.** The Design-Builder shall list and schedule submittals to be made and upon approval of each submittal transmit to City, within 5 Working Days, 2 copies of same. Failure to deliver the copies of approved submittals may result in withholding of progress payments.

**36.4.** The Design-Builder shall not be relieved of responsibility for any deviations from the requirements of the Contract Documents by City's acceptance of Shop Drawings, Product Data, Samples, or similar submittals unless the Design-Builder has specifically informed City of such deviation at the time of the submittal and City has accepted the specific deviation in writing. The Design-Builder shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by City's acceptance thereof. At the time of each submission, the Design-Builder shall, in writing, specifically identify deviations that the submittals or Samples may have from the requirements of the Contract Documents.

**37. Required Test/Material Certificates:**

**37.1.** The Design-Builder shall ensure that all tests are performed in accordance with the methods prescribed in the most current applicable national standard as may be required by law and as prescribed in the Contract Documents. Materials or Work in place that fails to pass acceptability tests shall be retested, at the direction of City and

at the Design-Builder's sole expense. The Design-Builder shall submit all test certificates to City in a timely manner.

**38. Traffic Control:**

**38.1.** If a Task Order is awarded, the City will require the Design-Builder to develop a Traffic Control Plan which minimizes environmental impacts, including noise, to residences, businesses, and institutions. The City will also require the final Traffic Control Plan to incorporate input from the community as well as from City staff.

**38.2.** The Design Builder shall acquire encroachment permits from other agencies like Caltrans as applicable.

**39. Reference Standards:**

**39.1.** Except as otherwise noted or specified, the Work shall be completed in accordance with reference standards listed in **INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS** of this RFP.

**40. Design Guidelines:**

**40.1.** Americans with Disabilities Act (ADA) / Americans with Disabilities Act Accessibility Guidelines (ADAAG)

**40.2.** American Water Works Association (AWWA)

**40.3.** California Building Code as adopted by the City of San Diego\*

**40.4.** California Code of Regulations, Title 24

**40.5.** City of San Diego Approved Materials List (AML) as approved by the Water (<http://www.sandiego.gov/water/cip/guidelines.shtml>) and Metropolitan Wastewater Departments <https://www.sandiego.gov/mwwd/business/sewer>

**40.6.** City of San Diego Computer Aided Design and Drafting (CADD), <http://www.sandiego.gov/publicworks/edocref/drawings.shtml>

**40.7.** City of San Diego Landscape Technical Manual

**40.8.** City of San Diego's Manual of Preparation of Land Development and Public Improvement plans

<http://www.sandiego.gov/development-services/industry/landdevcode/landdevmanual.shtml>

**40.9.** City of San Diego Street Design Manual, <http://www.sandiego.gov/publicworks/pdf/edocref/streetdesignmanual02.pdf>

**40.10.** City of San Diego Technical Guidelines for Geotechnical Reports, <http://www.sandiego.gov/development-services/pdf/industry/geoguidelines.pdf>

- 40.11. City of San Diego, Water Department Guidelines and Standards Books 1 through 7  
<http://www.sandiego.gov/water/cip/guidelines.shtml>
  - 40.12. City of San Diego, Sewer Department Guidelines and Standards.  
<https://www.sandiego.gov/mwwd/business/sewer>
  - 40.13. County of San Diego Code of Regulations
  - 40.14. National Electric Code (NBC) as adopted by the City of San Diego\*
  - 40.15. State of California Health and Safety Code
  - 40.16. Uniform Fire Code (UFC) as adopted by the City of San Diego\*
  - 40.17. Uniform Mechanical Code (UMC) as adopted by the City of San Diego\*
  - 40.18. Uniform Plumbing Code (UPC) as adopted by the City of San Diego\*
  - 40.19. Construction Planning & Scheduling Manual by AGC of America
  - 40.20. The National Environmental Policy Act (NEPA) and other development standards contained in the San Diego Municipal Code (SDMC) and other State and Federal regulatory documents
  - 40.21. City of San Diego Municipal Code;  
<http://www.sandiego.gov/city-clerk/officialdocs/legisdocs/muni.shtml>
  - 40.22. State Historic Preservation Act
  - 40.23. Storm Water Standards Manual  
<https://www.sandiego.gov/stormwater/regulations/newpermitprog/newdev.shtml>
- \*Any and all codes, regulations, and permits (including amendments) issued by City's Planning and Development Services Department.

**41. Bridging Documents:**

1. The following is a list of the Bridging Documents for this project available at:  
<ftp://ftp.sannet.gov/OUT/16%22%20%26%20Larger%20CI%20Main%20Replacement%20Group%20A/>
2. General/Location Map
3. Planning Documents/Preliminary Engineering Report
4. As-Builts/AT&T
5. As-Builts/Public



5. As-Builts/Public
6. As-Builts/SDG&E
7. As-Builts/Cox Cable
8. Planning Documents/Constraints maps
9. Planning Documents/ADA report
10. Planning Documents/ADT count
11. IMCAT Screenshot

**42. Supplemental Requirements:** All submitted hardcopy drawings and documents shall also be provided to the City in PDF format with electronically searchable text (not scanned images) to include drawings, specifications, details, reports, RFI's, Invoices, and all other documents of every type. Excel files of documents shall be provided when requested by the City.

**42.1.** The Design-Builder shall do all work as needed to accomplish the Scope of Work generally in accordance with the findings and recommendations in the Planning Study and the Preliminary Engineering Report (see bridging documents).

**42.2.** Only ADA improvements triggered by this project shall be included in the design. New sidewalks are not included except to replace portions triggered by ADA compliance requirements. See bridging documents.

**42.3.** The Design-Builder shall identify all existing fire services by field inspection, research of City records specifically including the City PUD cross connection database, and water billing records, and research of as-builts. Design-Builder shall provide all work necessary to reconnect all existing fire services.

**42.4.** Gate valves shall be used for water main up to and including 12" size. Butterfly valves shall be used on 16" or larger water mains which shall have a bypass installed for transmission mains only Valves shall be size on size to match fittings and reducers shall not be used to provide reduced size valves in lieu of this.

**42.5.** Five (5) feet of cover is required for all 16" transmission mains per the City Water Design Guide. Where this is not feasible or cost-effective the Design-Builder shall provide justification including calculations sufficient for the City PUD to allow an exception where appropriate.

**42.6.** This RFP provides as-built drawings and other information collected during preliminary planning for this project. The Design/Builder shall be responsible for researching and obtaining all as-built drawings and any other information from the City and/or other agencies which will be necessary to complete the scope of work.

- 42.7.** The Design-Builder shall resolve design and construction problems by a typical professional process including but not limited to research, field investigation, developing alternates, calculations, cost-effective analysis, making decisions/recommendations and obtaining City concurrence as needed. This process shall be diligently followed before the Design-Builder seeks direction from the City.
- 42.8.** The Design-Builder shall follow the City standard practice for design and construction when not specifically addressed in the RFP scope of work, reference documents, and design guides.
- 42.9.** The Design/Builder shall submit a brief monthly progress report in a format acceptable to the City, with map illustrating where water pipe was installed, feet installed, total feet and percent complete for the entire duration of the project.
- 42.10.** The City shall not be responsible for any assumptions the Design-Builder based their price proposal on, and the Design-Builder shall not be entitled to any additional payment for any such assumptions on which their price was based.
- 42.11.** The price proposal shall include all work and materials, and any references in this RFP to unit price, lump sum price, bid price or similar language shall not entitle the Design-Builder to any additional payment.
- 42.12.** The price proposal shall include all work and materials, and any references to or requirements for restricted work hours and/or night work shall not entitle the Design-Builder to any additional payment.
- 42.13.** The Design-Builder shall perform all work described in the Preliminary Engineering Report, Sec 3.2.1 "Street Resurfacing" to define the paving scope of work.
- 42.14.** The Design-builder shall submit a Schedule of Values (SOV) with substantiating data that must include estimated quantities, unit costs, and extensions for each construction item in the SOV.
- 42.15.** The RFP's maps and descriptions of proposed improvements such as "replace in place" are conceptual only and deviations from this in the final design by the Design-Builder shall not entitle the Design-Builder to any additional payment.

**ATTACHMENT B**  
**PHASED FUNDING PROVISIONS**

## **PHASED FUNDING PROVISIONS**

### **1. PHASED FUNDING:**

- 1.1.** For phased funded contracts, the City typically secures enough funds for the first 90 days of the contract prior to award. Within 10 Working Days after Bid opening date the Apparent Low Bidder must contact the Project Manager to discuss fund availability and the duration of the first phase and submit the Pre-Award Schedule to the City for approval and preparation of the first Phased Funding Schedule Agreement.
- 1.2.** The Apparent Low Bidder will be required to provide a Pre-award Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 9-3, "PAYMENT" prior to award of Contract.
- 1.3.** If the Bid submitted by the Apparent Low Bidder is rejected by the City for any reason, the next Apparent Low Bidder is to provide the Pre-Award Schedule within 5 Working Days after receiving notice. This process will continue until the City has selects an Awardee or rejects all Bids.
- 1.4.** The first Phased Funding Schedule Agreement must show the fund availability for the first phase. Upon selection of the Awardee and acceptance by the City of the Pre-Award Schedule, the City will present the first Phased Funding Schedule Agreement to you.
- 1.5.** At the City's request, meet with the City's project manager before execution of the first Phased Funding Schedule Agreement to discuss their comments and requests for revision to the Pre-Award Schedule.
- 1.6.** Your failure to perform the any of the following may result in the Bid being rejected as non-responsive:
  1. Meet with the City's project manager, if requested to do so, to discuss and respond to the City's comments regarding the Pre-Award Schedule,
  2. Revise the Pre-Award Schedule as requested by the City within the specified 22 Working Days timeframe, or
  3. Execute the first Phased Funding Schedule Agreement within a day after receipt.

**PHASED FUNDING SCHEDULE AGREEMENT**

**BID NUMBER: K-17-1556-MAC-3**

**CONTRACT OR TASK TITLE: TO #7: 16 Inch and Larger CI Water Main and Sewer Main Replacement Group A**

**CONTRACTOR: Orion Construction Corporation/Balboa Construction, Inc., Joint Venture**

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Bonds, Allowances, Design Entire Project, Construction of Maps 1 and 2	NTP	08/30/2018	\$1,710,894(W) \$105,736 (S)
2	Construction of Maps 3, 4, and 5	09/01/2018	08/30/2019	\$2,170,370 (W) \$352,000 (S)
3	Construction of Maps 6 and 7	09/01/2019	Contract Completion	\$675,000 (W) \$145,130 (S)
<b>Contract Total</b>				<b>\$5,159,130</b>

Notes:

- 1) WHITEBOOK section 9-3.6, "Phased Funding Compensation" applies.
- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
- 3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

**CITY OF SAN DIEGO**

**CONTRACTOR**

PRINT NAME: Bill Swallow  
Construction Manager

PRINT NAME: **Orion/Balboa, JV**

Signature: Bill Swallow

Title: Pres / Pres

Date: 8/7/17

Signature: [Signature]

PRINT NAME: Masfaneh Ashrafsadeh  
Project Manager

Date: 7/27/17 / 7/27/17

Signature: [Signature]

Date: 8-1-2017

**ATTACHMENT C**  
**INTENTIONALLY LEFT BLANK**

**ATTACHMENT D**  
**PREVAILING WAGES**

## ATTACHMENT D

### PREVAILING WAGES

1. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
  - 1.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
    - 1.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
    - 1.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.
  - 1.2. **Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed.



- 1.3. Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
- 1.3.1.** For contracts entered into on or after April 1, 2015, Contractor and their subcontractors shall furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 1.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 1.5. Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on design professionals and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 1.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 1.7. Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."
- 1.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Equal Opportunity Contracting Department at 619-236-6000..

**1.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. As of March 1, 2015, no contractor or subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. As of April 1, 2015, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City upon request.

**1.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.

**ATTACHMENT E**  
**SUPPLEMENTARY SPECIAL PROVISIONS**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

The following Supplementary Special Provisions (SSP) modifies the following documents:

1. The **2015 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
  2. The **2015 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), addressed as the "WHITEBOOK" herein, including the following:
    - a) General Provisions (A) for all Contracts.
    - b) General Provisions (C) for Design-Build Contracts.
- 

### **SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS**

- 1-2 TERMS AND DEFINITIONS.** To the "WHITEBOOK", item 54, "Normal Working Hours", ADD the following:

The **Normal Working Hours** are 8:30 AM to 3:30 PM.

### **SECTION 2 - SCOPE AND CONTROL OF WORK**

- 2-3.2 Self Performance.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall perform, with your own organization, Contract Work amounting to at least 50% of the base Bid **AND** 50% of any alternates.

- 2-9.2 Survey Service.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Prior to the start of design, you shall submit a letter to the Engineer identifying the Licensed Land Surveyor or the Registered Civil Engineer authorized to practice land surveying within the State of California that will be performing the design phase survey services for the Project.
2. You are responsible for performing and meeting the accuracy of surveying standards adequate for construction through a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California.
3. Survey stakes shall be set and stationed by you for curbs, headers, water mains, sewers, storm drains, structures, rough grade, and any other structures and appurtenances that are needed for the Project. A corresponding cut or fill to finished grade (or flow line) shall be indicated on a grade sheet.

4. Surveys performed shall list the basis of bearings as tied to Record of Survey 14492 or equivalent, based on the California Coordinate System of 1983, Zone 6, U.S. Survey foot, epoch 1991.35, along with a completed calibration sheet (blank form will be supplied by City Surveys). The vertical datum used shall be NGVD 29 in accordance with the City of San Diego Vertical Bench Book.
5. You shall preserve construction survey stakes, control points, and other survey related marks for the duration of the Project. If any construction survey stakes are lost or disturbed and need to be replaced, such replacement shall be performed by the Engineer at your expense.

#### **2-9.2.1 Survey Files.**

1. All Computer Aided Drafting (CAD) Work shall be done in accordance with the City of San Diego's Citywide Computer Aided Design and Drafting (CADD) Standards and shall be in City seed files (.job, .txt, .dgn, .alg, .raw, .fwd, .dtm, .pdf, .docx, .xlsx, .tif, and .jpg).
2. All survey files shall be completed in accordance with the City of San Diego's Citywide CADD Standards and shall adhere to the City's Microstation level and attribute structure.
3. The survey file deliverable will be either one Master .dgn file containing all xref's in geospatially referenced (and attached) models or one Master dgn with all xref's geospatially referenced (and attached) as dgn files. Resource files may be sent to you if requested.
4. Survey files shall include, but shall not be limited to, the following items:
  - a) Street center line and (record width) right-of-way lines.
  - b) Project geometry (.alg) files (this will be generated for use in InRoads).
  - c) 3D surface model (.dtm, break line and spot elevation) file.
  - d) Spot elevations of the new utility main at each intersection, midblocks, and for any change in grade.
  - e) Monuments.
  - f) Curb lines (top curb and gutter).
  - g) All other appurtenances including but not limited to water valves, meters, vaults, manholes, fire hydrants, utility boxes, cleanouts, and poles.
5. You shall use the survey information to produce red-lines drawings as described in Section 2-5.4 "Red-lines and Record Documents."

**2-9.2.2 Submittal.**

1. Survey files shall be submitted in accordance with 2-5.3, "Submittals" and 2-5.4, "Red-Lines and Record Documents". You shall provide the Survey Files, proposed Drawings, and/or Red-line Drawings on a CD/DVD to the Engineer and shall post the Survey Files, proposed Drawings, and/or Red-line Drawings to the following website:  
  
ftp://ftp.sannet.gov/IN/SURVEYS/
2. After the documents have been posted to the website, you shall send a confirmation email, which includes the hyperlink to the website, to the Engineer and to SurveyReview@sandiego.gov.
3. All survey Work and submittals which reveal non-compliance with the requirements of the Construction Documents shall be corrected as deemed necessary by the Engineer and the cost of the corrections to your survey submittals shall be at your expense.

**2-9.2.3 Payment.**

1. The payment for survey services Work shall be included in the lump sum Bid item for "Survey Services (Design)".

**2-14.3 Coordination.** To the "WHITEBOOK", ADD the following:

2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity of 16 Inch and Larger CI Water Main & Sewer replacement Group A project. See Appendix "F" for the approximate location. Coordinate the Work with the adjacent projects as listed below:

**Map 1:**

Via De La Valle UUD (Highland CV/City Lights), Jie Xiao, 619-533-5496  
UUD590 Via De La Valle PH I (undergrounding of Overhead Utilities),  
James Bajet, 619-533-3046

UU994 Via De La Valle (Undergrounding of Overhead Utilities),  
James Bajet, 619-533-3046

**Map 2:**

Traffic Signal Upgrades CityWide FY14, Jie Xiao, 619-533-5496  
University and Clairemont SD, Mahmoud Oriqat, 619-533-7588

**Map 3:**

Elvira to Morena PL Relocation (W&S), Jesus Garcia, 619-533-5410  
Mid-Coast Corridor Transit Project PL (W), Jesus Gracia, 619-533-5410  
Morena Pipeline, Jerome Potenciano, 858-654-4437  
Residential Project Block 6DD1, James Bajet, 619-533-3046

Balboa Avenue Corridor Improvements-Signals, Sabeen Cochinwala, 619-533-4661

Block 6H UUD, Jie Xiao, 619-533-5496

Pipeline Rehabilitation AE-1, Maryam Liaghat, 619-533-5192

Residential Project Block 6H, James Bajet, 619-533-3046

Moraga Avenue (Phase II), James Bajet, 619-533-3046

Moraga Avenue Phase II (Moraga Ct to Monair Dr), Farlito Valenzuela, 619-235-1947

**Map 5:**

Sewer Group 839, Regan Owen, 619-533-5205

**Map 6:**

Water Group Job 952, Jericho Gallardo, 619-533-7523

TS#56 & #18 Improvements, Mark Giandoni, 619-533-4434

UU786 Residential Project Block 8B, James Bajet, 619-533-3046

Residential Project Block 8B (Sherman Heights 3), Ali Alaeipour, 619-533-5141

**2-16** **CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM.** To the "WHITEBOOK", item 1, DELETE in its entirety.

**SECTION 3 – CHANGES IN WORK**

**3-5.1** **Claims.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**ADD:**

**3-5.1**

**Claims.**

1. A Claim is a written demand by you that seeks an adjustment in the Contract Price, Contract Time, or other relief associated with a dispute arising under or relating to the Contract, including a breach of any provision thereof. A voucher, invoice, or other routine request for payment is not a Claim.
2. A Claim shall conform to these specifications and may be considered after the City has previously denied a request by you for a Change Order seeking the demanded relief.
3. You shall submit a Claim to the Engineer if a dispute occurs that arises from or relates to the Contract. The Claim shall seek all relief to which you assert you are entitled as a result of the event(s) giving rise to the dispute. Your failure to process a Claim in accordance with these specifications shall constitute a waiver of all relief associated with the dispute. Claims are subject to 6-11, "Right to Audit".

4. You shall continue to perform the Services and Work and shall maintain the Schedule during any dispute proceedings. The Engineer will continue to make payments for undisputed Services and Work.
5. The City's Claims process specified herein shall not relieve you of your statutory obligations to present claims prior to any action under the California Government Code.

**3-5.1.1 Initiation of Claim.**

1. You shall promptly, but no later than 30 Days after the event(s) giving rise to the Claim, deliver the Claim to the Engineer.
2. You shall not process a Claim unless the Engineer has previously denied a request by you for a Change Order that sought the relief to be pursued in the claim.

**3-5.1.1.1 Claim Certification Submittal.**

1. If your Claim seeks an increase in the Contract Price, the Contract Time, or both, submit with the Claim an affidavit certifying the following:
  - a) The Claim is made in good faith and covers all costs and delays to which you are entitled as a result of the event(s) giving rise to the Claim.
  - b) The amount claimed accurately reflects the adjustments in the Contract Price, the Contract Time, or both to which you believe you are entitled.
  - c) All supporting costs and pricing data are current, accurate, and complete to the best of your knowledge. The cost breakdown per item of Work shall be supplied.
  - d) You shall ensure that the affidavit is executed by an official who has the authority to legally bind you.

**3-5.1.2 Initial Determination.**

1. The Engineer will respond in writing to your Claim within 30 Days of receipt of the Claim.

**3-5.1.3 Settlement Meeting.**

1. If you disagree with the Initial Determination, you shall request a Settlement Meeting within 30 Days. Upon receipt of this request, the Engineer will schedule the Settlement Meeting within 15 Working Days.

**3-5.1.7 City's Final Determination.**

1. If a settle agreement is not reached, the City shall make a written Final Determination within 10 Working Days after the Settlement Meeting.
2. If you disagree with the City's Final Determination, notify the Engineer in writing of your objection within 15 Working Days after receipt of the written determination and file a "Request for Mediation" in accordance with 3-5.2, "Dispute Resolution Process".



3. Failure to give notice of objection within the 15 Working Days period shall waive your right to pursue the Claim.

### **3-5.1.8 Mandatory Assistance.**

1. If a third party dispute, litigation, or both arises out of or relates in any way to the Services provided under the Contract, upon the City's request, you shall agree to assist in resolving the dispute or litigation. Your assistance includes, but is not limited to the following:
  - a) Providing professional consultations.
  - b) Attending mediations, arbitrations, depositions, trials, or any event related to the dispute resolution and litigation.

### **3-5.1.8.1 Compensation for Mandatory Assistance.**

1. The City will reimburse you for reasonable fees and expenses incurred by you for any required assistance rendered in accordance with 3-5.1.8, "Mandatory Assistance" as Extra Work.
2. The Engineer will determine whether these fees and expenses were necessary due to your conduct or failure to act.
3. If the Engineer determines that the basis of the dispute or litigation in which these fees and expenses were incurred were the result of your conduct or your failure to act in part or in whole, you shall reimburse the City for any payments made for these fees and expenses.
4. Reimbursement may be through any legal means necessary, including the City's withholding of your payment.

### **3-5.2.3 Selection of Mediator.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. A single mediator, knowledgeable in construction aspects and acceptable to both parties, shall be used to mediate the dispute.
2. To initiate mediation, the initiating party shall serve a Request for Mediation at the American Arbitration Association (AAA) on the opposing party.
3. If AAA is used, the initiating party shall concurrently file with AAA a "Request for Mediation" along with the appropriate fees, a copy of requested mediators marked in preference order, and a preference for available dates.
4. If AAA is selected to coordinate the mediation (Administrator), within 10 Working Days from the receipt of the initiating party's Request for Mediation, the opposing party shall file the following:
  - a) A copy of the list of the preferred mediators listed in preference order after striking any mediators to which they have any objection.
  - b) A preference for available dates.
  - c) Appropriate fees.

5. If the parties cannot agree on a mediator, then each party shall select a mediator and those mediators shall select the neutral third party to mediate the matter.

**3-5.3 Forum of Litigation.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. It is the express intention that all legal actions and proceedings related to the Contract or Agreement with the City or to any rights or any relationship between the parties arising therefrom shall be solely and exclusively initiated and maintained in courts of the State of California for the County of San Diego.

#### **SECTION 4 - CONTROL OF MATERIALS**

**4-1.3.1 General.** To the "WHITEBOOK", ADD the following:

1. Steel pipe in sizes larger than 18 inches shall require inspection at the source of production.
2. City lab staff or a qualified inspection agency approved by the Engineer shall witness all welding, lining, coating, and testing. You shall incur additional inspection costs outlined in 4-1.3.3, "Inspection of Items Not Locally Produced".
3. All parts of production (including but not limited to product fabrication, welding, testing, lining, and coating of straight pieces and specials) shall be performed or produced in the United States.
4. Welding and all testing shall be performed by certified welders and testing staff with credentials traceable in the United States.

**4-1.3.2 Inspection by the Agency.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The City will provide inspection and testing laboratory services within the continental United States within a 200-mile radius of the geographical limits of the City.

**4-1.3.3 Inspection of Items Not Locally Produced.** To the "WHITEBOOK", DELETE in its entirety.

**ADD:**

**4-1.3.3 Inspection of Items Not Locally Produced.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. When you intend to purchase materials, fabricated products, or equipment from sources located more than 200 miles (321.9 km) outside the geographical limits of the City, City Lab staff or a qualified inspection agency approved by the Engineer, shall be engaged at your expense to inspect the materials, equipment, or process.
2. This approval shall be obtained before producing any material or equipment. City Lab staff or inspector shall evaluate the materials for conformance with the requirements of the Plans and Specifications. You shall forward reports

required by the Engineer. No materials or equipment shall be shipped nor shall any processing, fabrication or treatment of such materials be done without proper inspection by City Lab staff or the approved agent. Approval by said agent shall not relieve you of responsibility for complying with the requirements of the Contract Documents.

3. The Engineer may elect City Lab staff to perform inspection of an out-of-town manufacturer. You shall incur additional inspection costs of the Engineer including lodging, meals, and incidental expenses based on Federal Per Diem Rates, along with travel and car rental expenses. If the manufacturing plant operates a double shift, a double shift shall be figured in the inspection costs.
  - a) At the option of the Engineer, full time inspection shall continue for the length of the manufacturing period. If the manufacturing period will exceed 3 consecutive weeks, you shall incur additional inspection expenses of the Engineer's supervisor for a trip of 2 Days to the site per month.
  - b) When the Engineer elects City Lab staff to perform out-of-town inspections, the wages of staff employed by the City shall not be part of the additional inspection expenses paid by you.
  - c) Federal Per Diem Rates can be determined at the location below:  

<https://www.gsa.gov/portal/content/104877>
4. The Engineer will perform inspections of out-of-town manufacturers for the items of Work specified here:
  - a) To be determined.

**4-1.3.6 Preapproved Materials.** To the "WHITEBOOK", ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

**4-1.6 Trade Names or Equals.** To the "WHITEBOOK", ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item **no less than 15 Working Days prior to the Proposal due date** and on the City's Product Submittal Form available at:

<http://www.sandiego.gov/publicworks/edocref/index.shtml>

**SECTION 5 - UTILITIES**

**5-2 PROTECTION.** To the "WHITEBOOK", item 2, ADD the following:

- g) Refer to Appendix "I" for more information on the protection of AMI devices.

**5-6 COOPERATION.** To the "GREENBOOK", ADD the following:

1. Notify SDG&E at least 10 Working Days prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).

## SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

### 6-1.1 **Construction Schedule.** To the "WHITEBOOK", item 20, ADD the following:

The 90 Calendar Day for the Plant Establishment Period is included in the stipulated Contract Time.

### 6-2.1 **Moratoriums.** To the "WHITEBOOK", ADD the following:

3. Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed in the MACC contract, or as provided here:
  - a) Location 3: Summer Beach Moratorium at the intersection of Garnet Ave and Mission Bay Drive. from Memorial Day to Labor Day (inclusive).

### ADD:

#### 6-3.2.1.1 **Environmental Document.**

1. The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a **Notice of Exemption (NOE)** for 16 Inch & Larger CI Water Main and Sewer Replacement Group A, as referenced in the Contract Appendix. You shall comply with all requirements of the **NOE** as set forth in **Appendix A**.
2. Compliance with the City's environmental document shall be included in the Contract Price.

### 6-7.1 **General.** To the "WHITEBOOK", item 3, ADD the following:

- d) 30 Days for full depth asphalt final mill and resurfacing work required per SDG-107.
- e) Where shutdowns of 16 inch and larger pipes are required, there is a shutdown moratorium from May until October. Plan and schedule Work accordingly. No additional payment or Working Days will be granted for delays due to the moratorium.

### 6-8.3 **Warranty.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date that the Work was accepted by the City. Additionally, you shall warranty the Work against all latent and patent defects for a period of 10 years.

## **SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR**

**7-3**            **INSURANCE.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**7-3**            **INSURANCE.**

1.            The insurance provisions herein shall not be construed to limit your indemnity obligations contained in the Contract.

**7-3.1**        **Policies and Procedures.**

1.            You shall procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2.            Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3.            You shall maintain this insurance for the duration of this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this Contract.
4.            The payment for insurance shall be included in the Contract Price as bid by you. Except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any Work under this Contract until you have provided and the City has approved all required insurance.
5.            Policies of insurance shall provide that the City is entitled to 30 Days (10 Days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

**7-3.2**        **Types of Insurance.**

**7-3.2.1**     **Commercial General Liability Insurance.**

1.            Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2.            The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily

injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).

3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

**7-3.2.2 Commercial Automobile Liability Insurance.**

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").
2. All costs of defense shall be outside the limits of the policy.

**7-3.2.3 Contractors Pollution Liability Insurance.**

1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.
2. All costs of defense shall be outside the limits of the policy. Any such insurance provided by your Subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of a substitution of your Subcontractor's insurance, you shall certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible shall not exceed \$25,000 per claim.

4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either “insured vs. insured” claims or contractual liability.
5. Occurrence based policies shall be procured before the Work commences and shall be maintained for the Contract Time. Claims Made policies shall be procured before the Work commences, shall be maintained for the Contract Time, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
6. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

**7-3.3 Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least “A-, VI” by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

**7-3.3.1 Non-Admitted Carriers.** The City will accept insurance provided by non-admitted, “surplus lines” carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

**7-3.4 Evidence of Insurance.** Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

**7-3.5 Policy Endorsements.**

**7-3.5.1 Commercial General Liability Insurance.**

**7-3.5.1.1 Additional Insured.**

1. You shall provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
2. To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected

officials, officers, employees, agents, and representatives as additional insured.

3. The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more shall include liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products,
  - c) your Work, e.g., your completed operations performed by you or on your behalf, or
  - d) premises owned, leased, controlled, or used by you.
4. The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 shall include liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products, or
  - c) premises owned, leased, controlled, or used by you.

**7-3.5.1.2 Primary and Non-Contributory Coverage.** The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

**7-3.5.1.3 Project General Aggregate Limit.** The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

**7-3.5.2 Commercial Automobile Liability Insurance.**

**7-3.5.2.1 Additional Insured.** Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.



**7-3.5.3 Contractors Pollution Liability Insurance Endorsements.**

**7-3.5.3.1 Additional Insured.**

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:

- a) Ongoing operations performed by you or on your behalf,
- b) your products,
- c) your work, e.g., your completed operations performed by you or on your behalf, or
- d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of § 2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

**7-3.5.3.2 Primary and Non-Contributory Coverage.** The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

**7-3.5.3.3 Severability of Interest.** For Contractors Pollution Liability Insurance, the policy or policies shall provide that your 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 and shall provide cross-liability coverage.

**7-3.6 Deductibles and Self-Insured Retentions.** You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

**7-3.7 Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit,

or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.

**7-3.8 Notice of Changes to Insurance.** You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.

**7-3.9 Excess Insurance.** Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

**7-3.10 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).**

For Contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), and etc) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate in full force and effect.

1. You shall ensure the following:
2. The policy retroactive date is on or before the date of commencement of the Project.
  - a) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
  - b) If professional engineering services are to be provided solely by the Subcontractor, you shall:
3. Certify this to the City in writing and
4. Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate in full force and effect.
5. You shall ensure the following:
  - c) The policy retroactive date is on or before the date of commencement of the Project.
  - d) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.

6. If professional engineering services are to be provided solely by the Subcontractor, you shall:
  - a) Certify this to the City in writing and
  - b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

**7-4 NOT USED.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**7-4 WORKERS' COMPENSATION INSURANCE AND EMPLOYERS LIABILITY INSURANCE.**

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.
2. Limits for this insurance shall be not less than the following:
 

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit
3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

**7-4.1 Waiver of Subrogation.** The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

**7-8.6 Water Pollution Control.** To the City Supplement, ADD the following:

6. Based on a preliminary assessment by the City, this Contract is subject to WPCP.

**ADD:**

**7-16.1.3**

**Weekly Updates Recipients.**

1. Submit a weekly correspondence with updates, traffic control issues and locations, lane closures, and any other pertinent information (with additional contact names given during award process) to the following recipients:

Name, Senior Engineer, [NBatta@sanidiego.gov](mailto:NBatta@sanidiego.gov)

Name, Project Engineer, [MAshrafzadeh@sanidiego.gov](mailto:MAshrafzadeh@sanidiego.gov)

Resident Engineer, TBA, [XXX@sanidiego.gov](mailto:XXX@sanidiego.gov)

**7-16.3**

**Exclusive Community Liaison Services.** To the "WHITEBOOK", ADD the following:

2. You shall retain an Exclusive Community Liaison for the Project that shall implement Work in accordance with the specifications described in 7-16.2 "Community Outreach Services" and 7-16.3 "Exclusive Community Liaison Services". You shall retain the Community Liaison services for the contract duration (design and construction).

**7-16.4**

**Payment.** To the "WHITEBOOK", Item 2, DELETE in its entirety and SUBSTITUTE with the following:

2. The payment for exclusive community liaison services shall be included in the Contract Price.

**7-20**

**ELECTRONIC COMMUNICATION.** To the "WHITEBOOK", ADD the following:

2. Virtual Project Manager shall be used on this Contract.

**7-21.1**

**General.** To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. During the construction phase of projects, the minimum waste management reduction goal is 90% of the inert material (a material not subject to decomposition such as concrete, asphalt, brick, rock, block, dirt, metal, glass, and etc.) and 65% of the remaining project waste. You shall provide appropriate documentation, including a Waste Management Form attached as an appendix, and evidence of recycling and reuse of materials to meet the waste reduction goals specified.

**SECTION 9 - MEASUREMENT AND PAYMENT**

**ADD:**

**9-3.7**

**Compensation Adjustments for Price Index Fluctuations.** To the "WHITEBOOK" ADD the following:

5. This Contract is not subject to the provisions of The "WHITEBOOK" for Compensation Adjustments for Price Index Fluctuations for paving asphalt.

## SECTION 10 – GREEN BUILDINGS AND STORM WATER MANAGEMENT

**ADD:  
10-3**

### **STORM WATER MANAGEMENT DISCHARGE CONTROL.**

1. You shall comply with Chapter 4, Article 3, Division 3 of the San Diego Municipal Code, Storm Water Management and Discharge Control, Municipal Storm Water Permit (MS4), California Regional Water Quality Control Board Order No. R9-2013-0001 (amended by R9-2015-0001 and R9-2015-0100), Storm Water Standards Manual, as amended from time to time, and any and all Best Management Practice (BMP) guidelines and pollution elimination requirements as may be established by the Enforcement Official. You warrant and certify that any and all Plans, reports, and specifications prepared for the City in accordance with this agreement shall meet all requirements of the San Diego Municipal Code and Storm Water Standards Manual. You understand that while the City will be reviewing your designs for storm water permit compliance prior to acceptance of Design-Builder's designs, you shall also understand and agree that the City's Storm Water review process and its acceptance of your designs in no way limits the your obligations under this agreement to prepare designs that comply with all requirements of the San Diego Municipal Code and MS4 Permit.
2. You shall complete and update the Storm Water Applicability Checklist (DS-560) to confirm the project's appropriate storm water requirements. For all applicable projects, and to the maximum extent practicable, you shall incorporate and include Source Control and Low Impact Development (LID) design features or Site Design BMPs on the construction plans. Additionally, for Priority Development projects, you shall prepare a Storm Water Quality Management Plan (SWQMP) in accordance with the requirements of the Storm Water Standards Manual. You shall prepare a SWQMP Drainage Management Area Map showing all LID site design, source control and treatment control BMPs, hydromodification management plan facilities, and tabulated calculations. Include sufficient details and cross sections for construction. The Drainage Management Area Map shall be included as part of the construction Plans in addition to the Storm Water Infrastructure cover sheet. A template of the Storm Water Infrastructure cover sheet will be provided by the City.
3. You shall attend the Pre-construction meeting. If applicable, you shall inspect and confirm that the permanent BMP was installed in accordance with the details on the Plans and that the permanent BMP functions meet the requirements of the MS4 Permit. Upon notification by the Engineer, the Design-Builder Engineer of Work shall sign and stamp the Permanent BMP Self Certification on the Plans or the Permanent BMP Self Certification Form (DS-563) prior to final acceptance by the City.
4. For projects requiring soil-disturbance Work such as geotechnical borings, street coring, and potholing as component of the design, you shall complete a Minor Water Pollution Control Plan (DS-570), if applicable.

**SECTION 203 – BITUMINOUS MATERIALS**

**203-3.4.4 Rubber Polymer Modified Slurry (RPMS).** To the "WHITEBOOK", ADD the following:

1. RPMS shall be used on this Contract.

**SECTION 209 – PRESSURE PIPE**

**209 PRESSURE PIPE.** To the "WHITEBOOK", ADD the following:

2. PVC products, specifically type C900 and C905, as manufactured or distributed by J-M Manufacturing Company or JM Eagle shall not be used on the Contract for pressurized pipe.

**SECTION 217 – BEDDING AND BACKFILL MATERIALS**

**217-2.2 Stones, Boulders, and Broken Concrete.** To the "GREENBOOK", Table 217-2.2, DELETE in its entirety and SUBSTITUTE with the following:

**TABLE 217-2.2**

<b>Zone</b>	<b>Zone Limits</b>	<b>Maximum Size (greatest dimension)</b>	<b>Backfill Requirements in Addition to 217-2.1</b>
Street or Surface Zone	From ground surface to 12" (300 mm) below pavement subgrade or ground surface	2.5" (63 mm)	As required by the Plans or Special Provisions.
Street or Surface Zone Backfill of Tunnels beneath Concrete Flatwork		Sand	Sand equivalent of not less than 30.
Trench Zone	From 12" (300 mm) below pavement subgrade or ground surface to 12" (300 mm) above top of pipe or box	6" (150 mm)	
Deep Trench Zone (Trenches 3' (0.9 m) wide or wider)	From 60" (1.5 m) below finished surface to 12" (300 mm) above top of pipe or box	Rocks up to 12" (300 mm) excavated from trench may be placed as backfill	
Pipe Zone	From 12" (300 mm) above top of pipe or box to 6" (150 mm) below bottom of pipe or box exterior	2.5" (63 mm)	Sand equivalent of not less than 30 or a coefficient of permeability greater than 1-½ inches/hour (35 mm per hour).
Overexcavation	Backfill more than 6" (150 mm) below bottom of pipe or box exterior	6" (150 mm)	Sand equivalent of not less than 30 or a coefficient of permeability greater than 1-½ inches/hour (35 mm per hour). Trench backfill slurry (100-E-100) per 201-1 may also be used.

## SECTION 302 – ROADWAY SURFACING

**302-4.12.2.1 General.** To the “WHITEBOOK”, ADD the following:

3. When Type I or Type II slurry is to be applied over Type II or Type III slurry, corrective action in accordance with 302-4.11.1.2, “Reduction in Payment Based on WTAT” such as reductions in payment, non-payment, or removal of material not meeting specifications, as directed by the Engineer, shall be executed prior to the application of the surface material.

**302-7.4 Payment.** To the “WHITEBOOK”, item 1, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

Payment shall not be made for additional fabric for overlapped areas.

## SECTION 304 –METAL FABRICATION AND CONSTRUCTION

**304-5 PAYMENT.** To the “WHITEBOOK”, REVISE section “304-5” to “304-6”.

## SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

**306-1 General.** To the “GREENBOOK”, ADD the following:

Build the Project in accordance with the water high-lining phasing as determined during design.

**306-7.8.2.1 General.** To the “WHITEBOOK”, item 2, ADD the following:

- a) Specified test pressure for Class 235 pipe shall be 150 psi.
- b) Specified test pressure for Class 305 pipe shall be 200 psi.

**306-17.2 Payment.** To the “WHITEBOOK”, item 7, ADD the following:

The payment for the inspection Work for the private pump system shall also be included in the Contract Price.

## SECTION 601- TEMPORARY TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES

**601-2.1.2 Engineered Traffic Control Plans (TCP).** To the “WHITEBOOK”, ADD the following:

6. Engineered TCP (2 foot x 3 foot size) shall be required for the following areas:
  - a) [Refer to the Bridging Documents sections]

## SECTION 700 – MATERIALS

**700-9.1 Pedestrian Barricade.** To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

1. Pedestrian barricades shall be constructed in accordance with the City of San Diego Standard Drawing SDE-103, “Pedestrian Barricade”.
2. Curb ramp barricades shall be constructed in accordance with the City of San Diego Standard Drawing SDG-140, “Curb Ramp Barricade”.
3. Assembly shall be commercial quality galvanized material.

## SECTION 701 – CONSTRUCTION

**701-2 PAYMENT.** To the “WHITEBOOK”, ADD the following:

19. The payment for Pedestrian Barricades shall be included in the Contract Price.
20. The payment for Curb Ramp Barricades shall be included in the Contract Price,

## EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP) SECTION A – GENERAL REQUIREMENTS

**4.1 Nondiscrimination in Contracting Ordinance.** To the “WHITEBOOK”, subsection 4.1.1, paragraph (2), sentence (1), DELETE in its entirety and SUBSTITUTE with the following:

You shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers.

## END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)



## **SUPPLEMENTARY SPECIAL PROVISIONS**

### **APPENDICES**

**APPENDIX A**  
**NOTICE OF EXEMPTION**

NOTICE OF EXEMPTION

(Check one or both)

TO: X RECORDER/COUNTY CLERK
P.O. BOX 1750, MS A-33
1600 PACIFIC HWY, ROOM 260
SAN DIEGO, CA 92101-2422

FROM: CITY OF SAN DIEGO
PUBLIC WORKS DEPARTMENT
525 B STREET, SUITE 750, MS 908A
SAN DIEGO, CA 92101

OFFICE OF PLANNING AND RESEARCH
1400 TENTH STREET, ROOM 121
SACRAMENTO, CA 95814

PROJECT/WBS No.: B-15134 (W); B-17059 (S)

PROJECT TITLE: 16-Inch and Larger Cast Iron Water Main and Sewer Replacement

PROJECT LOCATION-SPECIFIC: The project is located Citywide at the following locations: Intersection of Via De La Valle and Jimmy Durante Boulevard; Clairemont Mesa Boulevard (between Frink Avenue and Diane Avenue); Garnet Avenue (between Mission Bay Drive and Santa Fe Street); Moraga Avenue (between Monair Drive and Garnet Avenue extending south to Mount Lawrence Drive); Hurlbut Street (between Cabrillo Heights Neighborhood Park and Afton Road); Camino De La Siesta (between Camino De La Reina and Camino Del Rio North) crossing I-8 to Camino Del Rio South; B Street between Pershing Drive and 22nd Street; Alleghany Street; and Saipan Drive.

The project is located within the Torrey Pines, Clairemont Mesa, Pacific Beach, Serra Mesa, Mission Valley, Greater Golden Hill, and Skyline-Paradise Hills Community Planning Areas within Council Districts 1, 2, 3, 4, 6, and 7.

PROJECT LOCATION-CITY/COUNTY: San Diego/San Diego

DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT: The project includes replacement (in place) and abandonment of water and sewer mains at seven locations throughout the City. Approximately 7,326 linear feet (LF) of existing 8-, 10-, 12-, 16-, and 18-inch cast iron (CI) and asbestos cement (AC) water pipes will be replaced with new polyvinyl chloride (PVC) pipe within their existing alignment at the same or shallower depths. Approximately 296 LF of existing water main will be abandoned (by slurry fill). Approximately 1,597 LF of existing 6-, 8-, 12-, and 15-inch concrete pipe (CP) and vitrified clay (VC) sewer will be replaced at the same or shallower depth with new PVC pipe. The project will also include the following improvements: installation of curb ramps, fire hydrants, valves, water meters, water boxes, laterals, manholes, cleanouts, slurry seal and street resurfacing. The project will avoid sensitive resources and, specifically, the portion of the Moraga Avenue (from Garnet Avenue extending south to Mount Lawrence Drive) segment will be installed via trenchless construction methods to avoid any impacts to sensitive vegetation.

NAME OF PUBLIC AGENCY APPROVING PROJECT: City of San Diego

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT: City of San Diego Public Works Department
Contact: Mastaneh Ashrafzadeh; Phone: (619)533-3781
525 B Street, Suite 750, San Diego, CA 92101

EXEMPT STATUS: (CHECK ONE)

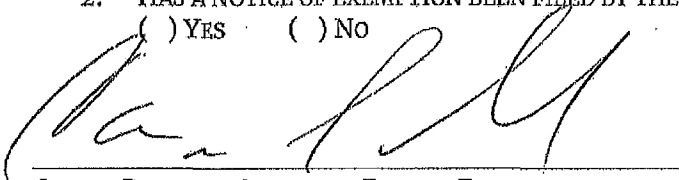
- ( ) MINISTERIAL (SEC. 21080(b)(1); 15268);
( ) DECLARED EMERGENCY (SEC. 21080(b)(3); 15269(a));
( ) EMERGENCY PROJECT (SEC. 21080(b)(4); 15269(b)(c))
(X) CATEGORICAL EXEMPTIONS: 15301 (EXISTING FACILITIES); 15302 (REPLACEMENT OR RECONSTRUCTION); 15303 (NEW CONSTRUCTION OR CONVERSION OF SMALL STRUCTURES); 15304 (MINOR ALTERATIONS TO LAND)
( ) STATUTORY EXEMPTIONS:

REASONS WHY PROJECT IS EXEMPT: The City of San Diego conducted an environmental review which determined that the project meets the categorical exemption criteria set forth in CEQA State Guidelines, Sections 15301 (Existing Facilities) which allows for the repair, maintenance, or minor alterations of existing facilities of both investor and publicly owned utilities to provide electric power, natural gas, sewage or other public utility services (e.g. water main replacement) as well as the repair, maintenance, or minor alteration of highways and streets, sidewalks, gutters, and similar facilities, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination (e.g. curb ramps); 15302 (Replacement or Reconstruction) which allows for the replacement or reconstruction of existing facilities, where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced; 15303 (New Construction or Conversion of Small Structures) which allows for construction and location of limited numbers or new, small facilities or structures such as water main, sewage, electrical, gas, and other utility extensions, including street improvements of reasonable length to serve such construction; 15304 (Minor Alterations to Land) which allows minor alterations in the condition of land, water, and/or vegetation including minor trenching and backfilling where the surface is restored; and where the exceptions listed in Section 15300.2 would not apply. The project is not located within or adjacent to the City's Multiple Habitat Planning Area (MHPA) and is not expected to impact sensitive resources.

LEAD AGENCY CONTACT PERSON: JERRY JAKUBAUSKAS, SENIOR PLANNER      TELEPHONE: (619) 533-3755

IF FILED BY APPLICANT:

1. ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING.
2. HAS A NOTICE OF EXEMPTION BEEN FILED BY THE PUBLIC AGENCY APPROVING THE PROJECT?  
 YES       NO



CARRIE PURCELL, ASSISTANT DEPUTY DIRECTOR

1/31/2017  
DATE

CHECK ONE:

- SIGNED BY LEAD AGENCY  
 SIGNED BY APPLICANT

DATE RECEIVED FOR FILING AT OPR:

**APPENDIX B**  
**FIRE HYDRANT METER PROGRAM**

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 1 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

1. **PURPOSE**

1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

2.1 All authorities and references shall be current versions and revisions.

2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15

2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

2.6 State of California Water Code, Section 110, 500-6, and 520-23

2.7 Water Department Director

**Reference**

2.8 State of California Guidance Manual for Cross Connection Programs

2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention

2.10 American Water Works Association Standards for Water Meters

2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 2 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.

3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.

4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.

4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:

a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.

b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:

1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 3 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.
3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).
4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).
5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).
6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.
7. All private fire hydrant meters shall have backflow devices attached when installed.
8. The customer must maintain and repair their own private meters and private backflows.
9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.
10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.



<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 4 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.
  12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
  13. The outlet shall have a 2 ½ “National Standards Tested (NST) fire hydrant male coupling.
  14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).
- 4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.
- 4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.
- 4.6 **Conditions and Processes for Issuance of a Fire Hydrant Meter**
- Process for Issuance
- a. Fire hydrant meters shall only be used for the following purposes:
    1. Temporary irrigation purposes not to exceed one year.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT</b>	<b>PAGE 5 OF 10</b>	<b>EFFECTIVE DATE</b>
<b>FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>		October 15, 2002
	<b>SUPERSEDES DI 55.27</b>	<b>DATED</b> April 21, 2000

2. Construction and maintenance related activities (see Tab 2).
  - b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.
  - c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.
  - d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.
  - e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.
  - f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.
  - g. After the fees have been paid and an account has been created, the

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 6 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

#### 4.7 Relocation of Existing Fire Hydrant Meters

- a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as "Hotline"), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter's relocation.
- b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.
- c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

#### 4.8 Disconnection of Fire Hydrant Meter

- a. After ten (10) months a "Notice of Discontinuation of Service" (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.
- b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 7 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

- 5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

- a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 8 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

b) **Floating Meters:** Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

- 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
- 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 9 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

**7. FEE AND DEPOSIT SCHEDULES**

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. These deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

**8. UNAUTHORIZED USE OF WATER FROM A HYDRANT**

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 10 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

**Larry Gardner  
Water Department Director**

- Tabs: 1. Fire Hydrant Meter Application  
 2. Construction & Maintenance Related Activities With No Return To Sewer  
 3. Notice of Discontinuation of Service

#### **APPENDIX**

**Administering Division:** Customer Support Division

**Subject Index:** Construction Meters  
 Fire Hydrant  
 Fire Hydrant Meter Program  
 Meters, Floating or Vehicle Mounted  
 Mobile Meter  
 Program, Fire Hydrant Meter

**Distribution:** DI Manual Holders



# Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

## Meter Information

Application Date	Requested Install Date:
------------------	-------------------------

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) Zip:	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, If so, explain:		
Estimated Duration of Meter Use:		<input type="checkbox"/> Check Box if Reclaimed Water

## Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
*Business license#		*Contractor license#	
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: <small>(PERSON IN ACCOUNTS PAYABLE)</small>			Phone: ( )
Site Contact Name and Title:			Phone: ( )
Responsible Party Name:			Title:
Cal ID#			Phone: ( )
Signature:		Date:	
Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter			

<b>Fire Hydrant Meter Removal Request</b>	Requested Removal Date:
Provide Current Meter Location if Different from Above:	
Signature:	Title: Date:
Phone: ( )	Pager: ( )

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter
Contract Acct #:	Deposit Amount: <b>\$ 936.00</b> Fees Amount: <b>\$ 62.00</b>
Meter Serial #	Meter Size: <b>05</b> Meter Make and Style: <b>6-7</b>
Backflow #	Backflow Size: Backflow Make and Style:
Name:	Signature: Date:



WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing  
Backfilling  
Combination Cleaners (Vactors)  
Compaction  
Concrete Cutters  
Construction Trailers  
Cross Connection Testing  
Dust Control  
Flushing Water Mains  
Hydro Blasting  
Hydro Seeing  
Irrigation (for establishing irrigation only; not continuing irrigation)  
Mixing Concrete  
Mobile Car Washing  
Special Events  
Street Sweeping  
Water Tanks  
Water Trucks  
Window Washing

**Note:**

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party  
Company Name and Address  
Account Number: \_\_\_\_\_

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # \_\_\_\_\_, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego  
Water Department  
Attention: Meter Services  
2797 Caminito Chollas  
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619) \_\_\_\_\_ - \_\_\_\_\_.

Sincerely,

Water Department

**APPENDIX C**

**MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE**

## Materials Typically Accepted by Certificate of Compliance

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 Inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

**APPENDIX D**  
**SAMPLE CITY INVOICE**

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123		<b>Contractor's Name:</b>	
<b>Project Name:</b>		Contractor's Address:	
Work Order No or Job Order No.			
City Purchase Order No.		Contractor's Phone #:	<b>Invoice No.</b>
Resident Engineer (RE):		Contractor's fax #:	<b>Invoice Date:</b>
RE Phone#:	Fax#:	Contact Name:	Billing Period: ( to

Item #	Item Description	Contract Authorization				Previous Totals To Date		This Estimate		Totals to Date	
		Unit	Price	Qty	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1					\$ -		\$ -		\$ -	0.00%	\$ -
2					\$ -		\$ -		\$ -	0.00%	\$ -
3					\$ -		\$ -		\$ -	0.00%	\$ -
4					\$ -		\$ -		\$ -	0.00%	\$ -
5					\$ -		\$ -		\$ -	0.00%	\$ -
6					\$ -		\$ -		\$ -	0.00%	\$ -
7					\$ -		\$ -		\$ -	0.00%	\$ -
8					\$ -		\$ -		\$ -	0.00%	\$ -
9					\$ -		\$ -		\$ -	0.00%	\$ -
10					\$ -		\$ -		\$ -	0.00%	\$ -
11					\$ -		\$ -		\$ -	0.00%	\$ -
12					\$ -		\$ -		\$ -	0.00%	\$ -
13					\$ -		\$ -		\$ -	0.00%	\$ -
14					\$ -		\$ -		\$ -	0.00%	\$ -
15					\$ -		\$ -		\$ -	0.00%	\$ -
16					\$ -		\$ -		\$ -	0.00%	\$ -
17	<b>Field Orders</b>				\$ -		\$ -		\$ -	0.00%	\$ -
18	<b>CHANGE ORDER No.</b>				\$ -		\$ -		\$ -	0.00%	\$ -
Total Authorized Amount (including approved Change Order)					\$ -		\$ -		\$ -	<b>Total Billed</b>	\$ -

**SUMMARY**

A. Original Contract Amount	\$ -
B. Approved Change Order #00 Thru #00	\$ -
C. Total Authorized Amount (A+B)	\$ -
D. Total Billed to Date	\$ -
E. Less Total Retention (5% of D )	\$ -
F. Less Total Previous Payments	\$ -
<b>G. Payment Due Less Retention</b>	<b>\$0.00</b>
H. Remaining Authorized Amount	\$0.00

I certify that the materials  
have been received by me in  
the quality and quantity specified

Resident Engineer

Construction Engineer

**Retention and/or Escrow Payment Schedule**

Total Retention Required as of this billing (Item E)	\$0.00
Previous Retention Withheld in PO or in Escrow	\$0.00
<b>Add'l Amt to Withhold in PO/Transfer in Escrow:</b>	<b>\$0.00</b>
<b>Amt to Release to Contractor from PO/Escrow:</b>	

Contractor Signature and Date: \_\_\_\_\_

**APPENDIX E**  
**LOCATION MAP**

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SANDAG. This map is copyrighted by RAND MCNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND MCNALLY & COMPANY.

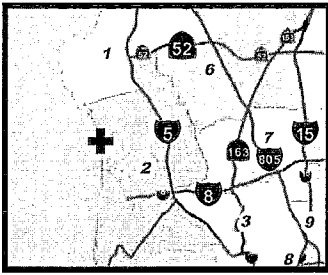
The City of  
**SAN DIEGO** Public Works

**16-In & Larger CI Wtr Main & Swr Repl**

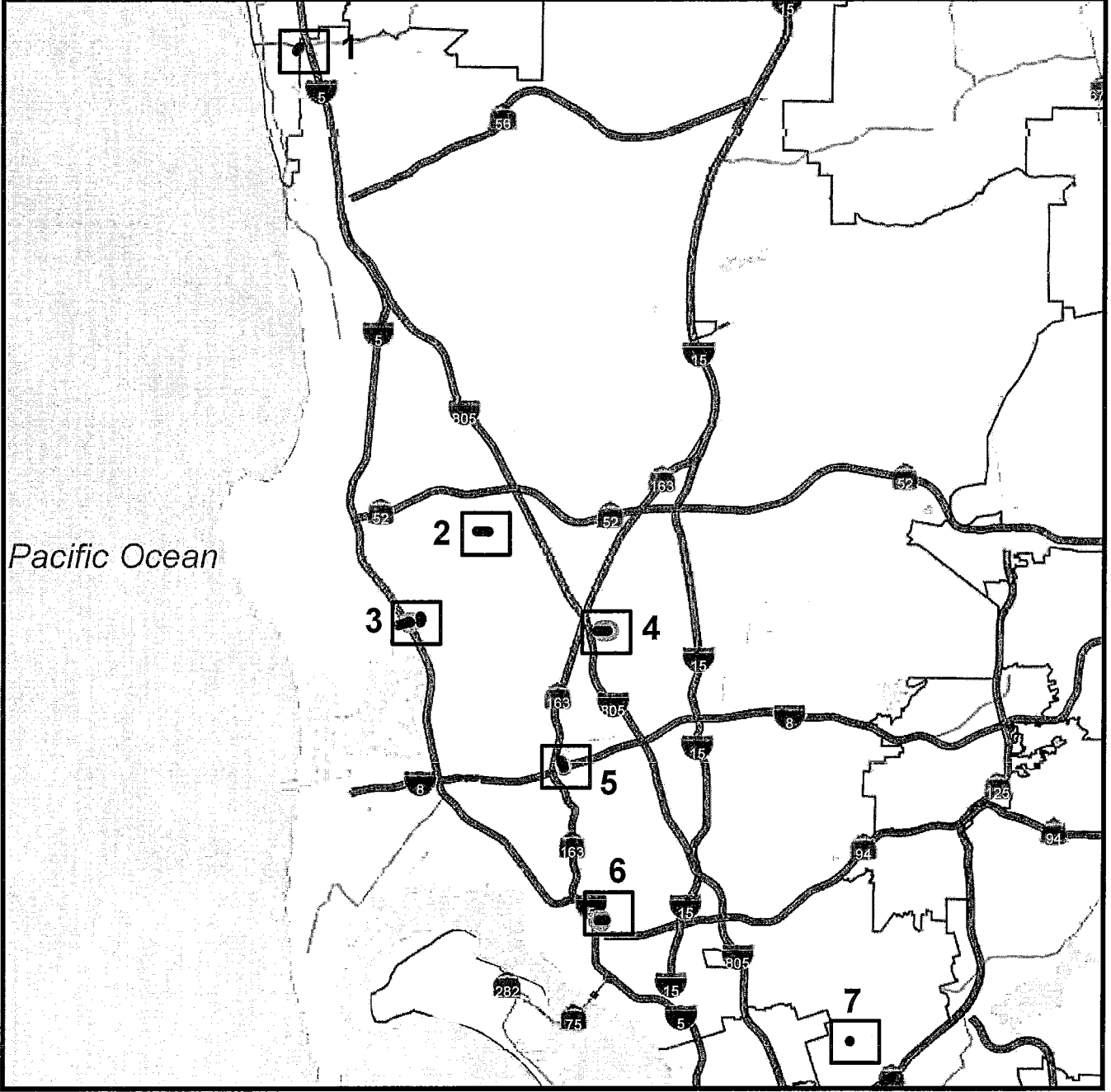
DESIGN  
SENIOR ENGINEER  
Nabil Batta  
(619) 533-4145

DESIGN  
PROJECT MANAGER  
Mastaneh Ashrafzadeh  
(619) 533-3781

DESIGN  
PROJECT ENGINEER  
Aila Al Haja  
(619) 533-4209



DESIGN LOCATION MAP



Pacific Ocean

**Legend**

- Proposed Water Main
- Proposed Sewer Main
- Abandon Mains



No Scale

Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\PE Reports Files\16-Inch & Larger CI Water Main Repl Grp A\Shape Files\Shapefile (8.9.16)\Overall Map\Overall\_Map.mxd

Community Name: Various Citywide

Council District: 1, 2, 3, 4, 6, 7

WBS # B15134 (W)

Date: 9/9/2016



**PROJECT IMPLEMENTATION DIVISION**

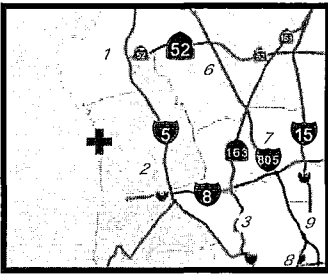
B17059 (S)

MAEC Request for Proposal Appendix E - Location Map  
16 Inch and Larger CI Water Main and Sewer Replacement Group A

Last updated by: jguinto on 9/9/2016 11:19:21 AM Page



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SanGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.



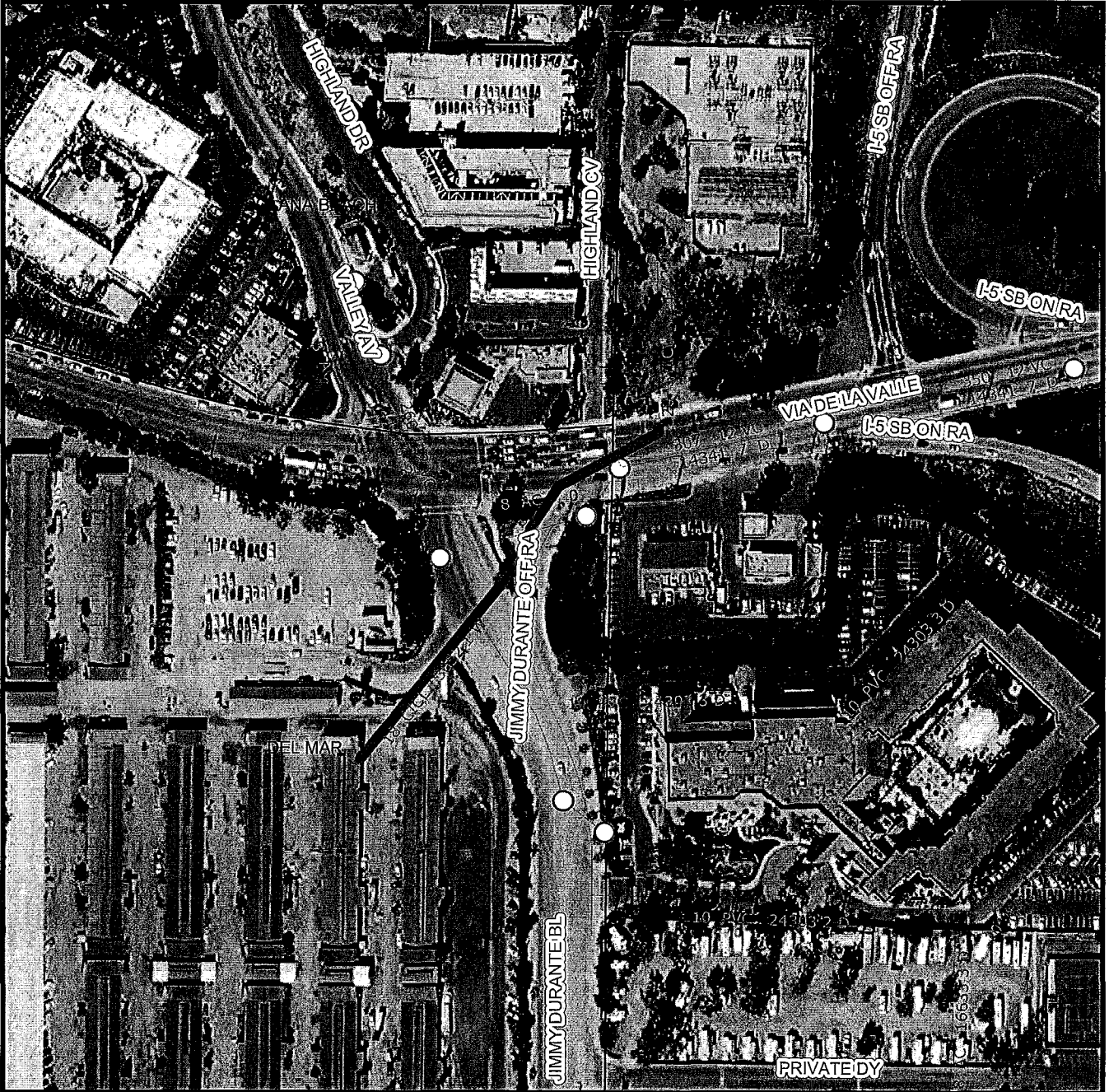
The City of  
**SAN DIEGO** Public Works  
**16-Inch & Larger CI Wtr Main & Swr Repl**

Map 1 of 7

DESIGN  
 SENIOR ENGINEER  
 Nabil Batta  
 (619) 533-4145

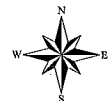
DESIGN  
 PROJECT MANAGER  
 Mastaneh Ashrafzadeh  
 (619) 533-3781

DESIGN  
 PROJECT ENGINEER  
 Aila Al Haja  
 (619) 533-4209



**Legend**

Proposed Water Mains



No Scale

Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\PE Reports Files\16-Inch & Larger CI Water Main Repl Grp A\Shape Files\Shapefile (9.8.16)\Map 1\MAP1.mxd

Community Name: Torrey Pines

Council District: 1

WBS # B15134 (W)

Date: 9/15/2016



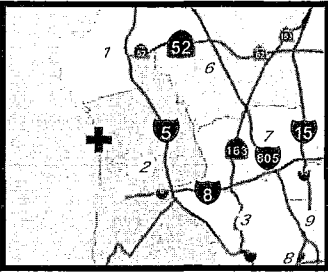
PROJECT IMPLEMENTATION DIVISION

B17059 (S)

MACC Request for Proposal Appendix E - Location Map  
 16 Inch and Larger CI Water Main and Sewer Replacement Group A

Last updated by: jguinto on 9/15/2016 at 11:07:54 AM Page

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY® to SARGIS. This map is copyrighted by RAND McNALLY & COMPANY®. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.



The City of  
**SAN DIEGO** Public Works  
**16-In & Larger CI Wtr Main & Swr Repl**  
 Map 2 of 7

DESIGN  
 SENIOR ENGINEER  
 Nabil Batta  
 (619) 533-4145

DESIGN  
 PROJECT MANAGER  
 Mastaneh Ashrafzadeh  
 (619) 533-3781

DESIGN  
 PROJECT ENGINEER  
 Alla Al Haja  
 (619) 533-4209



**Legend**

— Proposed Water Mains



No Scale

Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\PE Reports Files\16-Inch & Larger CI Water Main Repl Grp A\Shape Files\Shapefile (6.9.10)\Map 2\MAP2.mxd

Community Name: Clairemont Mesa

Council District: 6

WBS # B15134 (W)

Date: 9/15/2016



PROJECT IMPLEMENTATION DIVISION

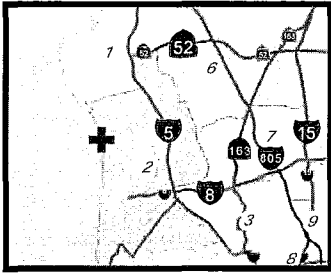
B17059 (S)

MACC Request for Proposal Appendix E - Location Map  
 16 Inch and Larger CI Water Main and Sewer Replacement Group A

Last updated by: Jguinto on 9/15/2016 at 4:11:52 PM

118 | Page

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SanGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.



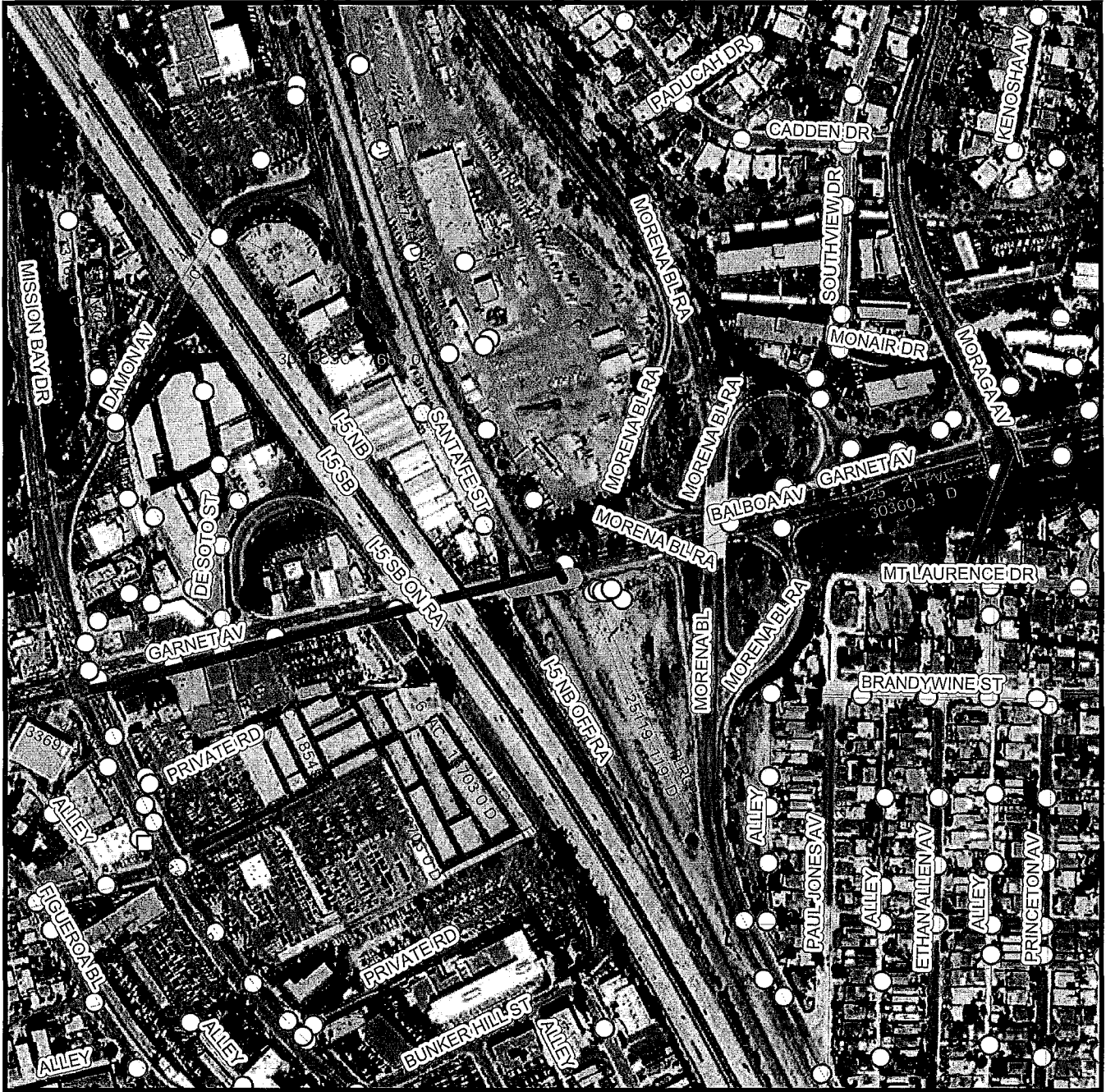
The City of  
**SAN DIEGO** Public Works  
**16-In & Larger CI Wtr Main & Swr Repl**

Map 3 of 7



DESIGN  
 SENIOR ENGINEER  
 Nabil Batta  
 (619) 533-4145

DESIGN  
 PROJECT MANAGER  
 Mastaneh Ashrafzadeh  
 (619) 533-3781

DESIGN  
 PROJECT ENGINEER  
 Aila Al Haja  
 (619) 533-4209



**Legend**

-  Proposed Water Mains
-  Proposed Sewer Main



No Scale

Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\PE Reports Files\16-Inch & Larger CI Water Main Repl Grp A\Shape Files\Shapefile (9.9.16)\Map 3\MAP3.mxd

Community Name: Pacific Beach, Clairemont Mesa Council District: 2

WBS # B15134 (W)

Date: 9/12/2016  
 PROJECT IMPLEMENTATION DIVISION  
 16 Inch and Larger CI Water Main and Sewer Replacement Group A

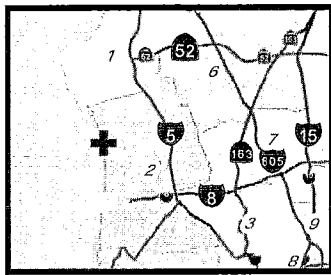
B17059 (S)

Last updated by: JGuinto on 9/12/2016 11:10 AM

119 PAGE



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SANDAG. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND MCNALLY & COMPANY.



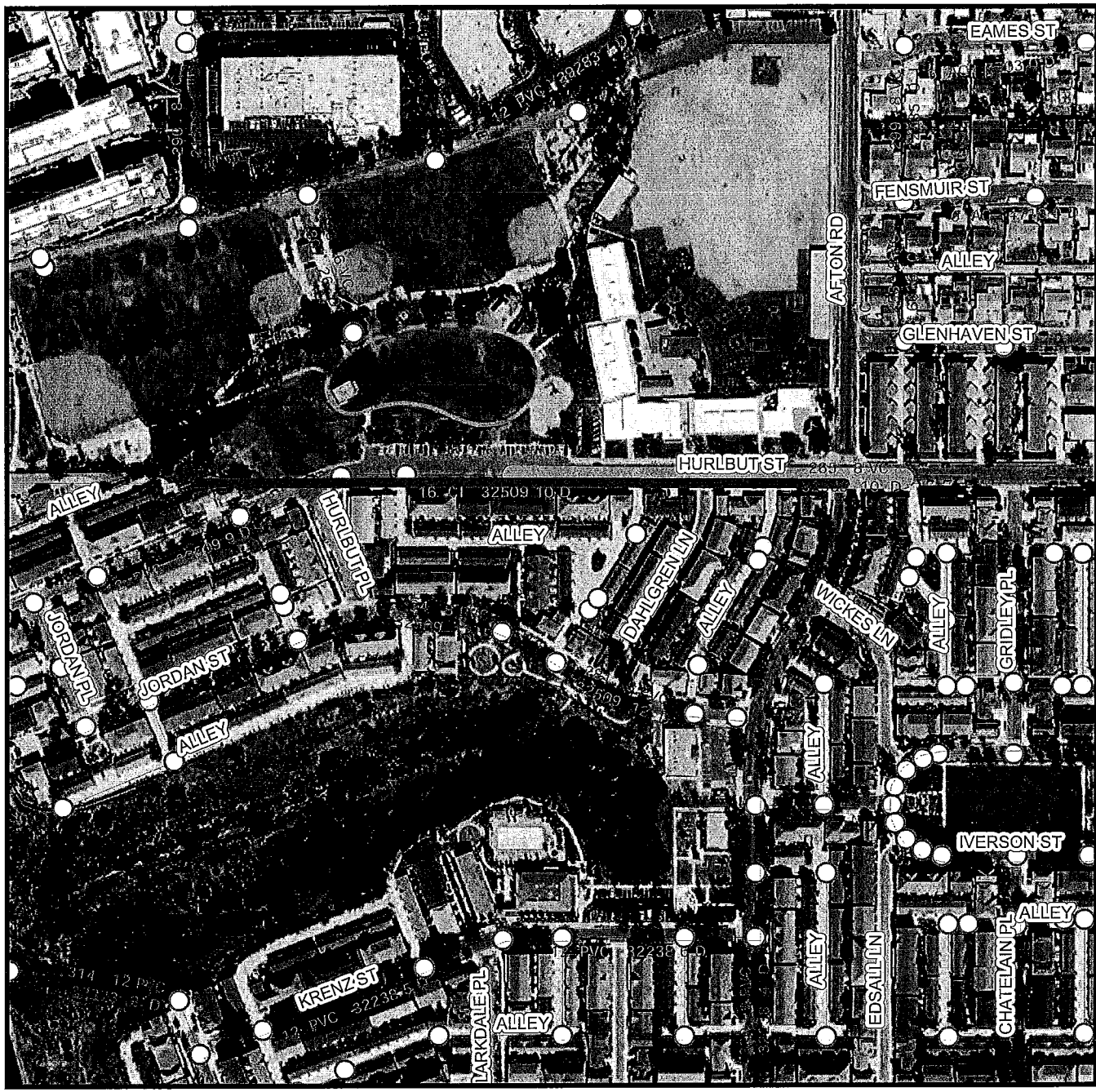
The City of  
**SAN DIEGO** Public Works  
**16-In & Larger CI Wtr Main & Swr Repl**

Map 4 of 7

DESIGN  
 SENIOR ENGINEER  
 Nabil Batta  
 (619) 533-4145

DESIGN  
 PROJECT MANAGER  
 Mastaneh Ashrafzadeh  
 (619) 533-3781

DESIGN  
 PROJECT ENGINEER  
 Alla Al Haja  
 (619) 533-4209

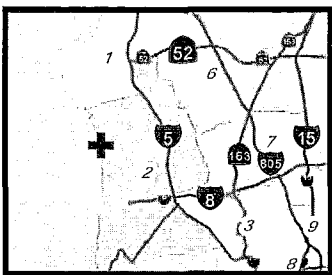


- Legend**
- Proposed Water Mains
  - Proposed Sewer Main



Document Path: S:\PITS\SPITS-CIP-Preliminary-Engineering-and-Program-Coordination\PE Reports\Files\16-inch & Larger CI Water Main Repl Grp A\Shape Files\Shapefile (9.8.16)\Map 4\MAP4.mxd

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SanGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.



The City of  
**SAN DIEGO** Public Works  
**16-In & Larger CI Wtr Main & Swr Repl**

Map 5 of 7



DESIGN  
 SENIOR ENGINEER  
 Nabil Batta  
 (619) 533-4145

DESIGN  
 PROJECT MANAGER  
 Mastaneh Ashrafzadeh  
 (619) 533-3781

DESIGN  
 PROJECT ENGINEER  
 Alla Al Haja  
 (619) 533-4209



**Legend**

-  Proposed\_Water\_Mains
-  Abandon Mains



No Scale

Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\PE Reports Files\16-Inch & Larger CI Water Main Repl Grp A\Shape Files\Shapofile (6.9.16)\Map 6\MAP6.mxd

Community Name: Mission Valley

Council District: 7

WBS # B15134 (W)

Date: 9/12/2016



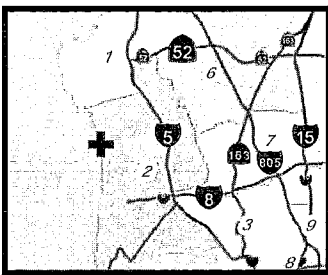
PROJECT IMPLEMENTATION DIVISION

B17059 (S)

MACC Request for Proposal Appendix E- Location Map  
 16 inch and Larger CI Water Main and Sewer Replacement Group A

Last updated by: jguinto on 9/12/2016 at 12:11 PM Page 1211

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SanGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.



The City of  
**SAN DIEGO** Public Works  
**16-In & Larger CI Wtr Main & Swr Repl**

Map 6 of 7



DESIGN  
 SENIOR ENGINEER  
 Nabil Batta  
 (619) 533-4145

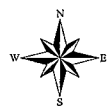
DESIGN  
 PROJECT MANAGER  
 Mastaneh Ashrafzadeh  
 (619) 533-3781

DESIGN  
 PROJECT ENGINEER  
 Aila Al Haja  
 (619) 533-4209



**Legend**

-  Proposed Water Mains
-  Proposed Sewer Main



No Scale

Document Path: S:\PITS\PIES-CIP-Preliminary-Engineering-and-Program-Coordination\PE Reports Files\16-Inch & Larger CI Water Main Repl Grp A\Shape Files\Shapefile (6.9.16)\Map 7\MAP7.mxd

Community Name: Greater Golden Hill

Council District: 3

WBS # B15134 (W)

Date: 9/12/2016



PROJECT IMPLEMENTATION DIVISION

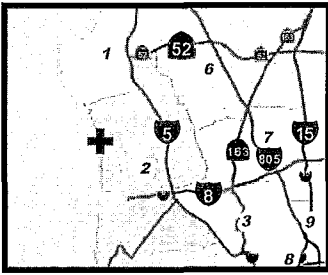
B17059 (S)

MACC Request for Proposal Appendix E Location Map  
 16 Inch and Larger CI Water Main and Sewer Replacement Group A

Last updated by: jguinto on 9/12/2016 11:35 AM Page



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SANDAG. This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SANDAG. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.

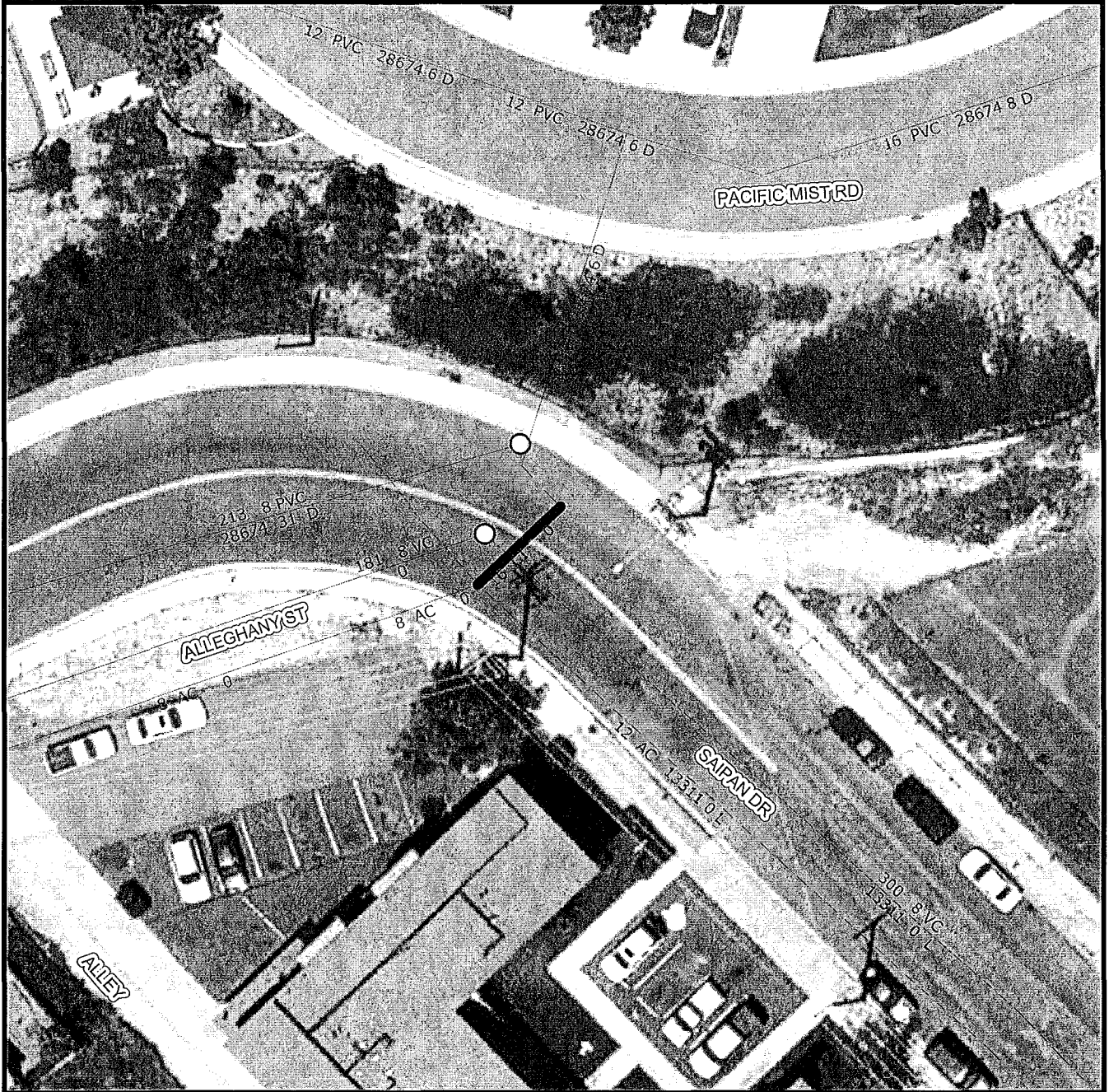


The City of  
**SAN DIEGO** Public Works  
**16-In & Larger CI Wtr Main & Swr Repl**  
 Map 7 of 7

DESIGN  
 SENIOR ENGINEER  
 Nabil Batta  
 (619) 533-4145

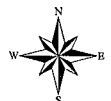
DESIGN  
 PROJECT MANAGER  
 Mastaneh Ashrafzadeh  
 (619) 533-3781

DESIGN  
 PROJECT ENGINEER  
 Aila Al Haja  
 (619) 533-4209



**Legend**

— Proposed Water Mains



No Scale

Document Path: S:\PITS\PIES-CIP-Preliminary-Engineering-and-Program-Coordination\PE Reports Files\16-inch & Larger CI Water Main Repl Grp A\Shape Files\Shapefile (9.9.16)\Map 6\MAP6.mxd

Community Name: Skyline Paradise Hills

Council District: 4

WBS # B15134 (W)

Date: 10/11/2016



**PROJECT IMPLEMENTATION DIVISION**

B17059 (S)

Last updated by: JGuinjo on 10/11/2016 3:44:28 PM

MACC Request for Proposal Appendix E- Location Map  
 16 Inch and Larger CI Water Main and Sewer Replacement Group A

**APPENDIX F**  
**ADJACENT PROJECTS**



# DESIGN PROJECT COORDINATION MAP

## 16-In & LARGER CI WTR MAIN & SWR REPL

(MAP 1 OF 7)



### Legend

- Proposed Water Main
- Via De La Valle UUD (Highland CV/City Lights)
- Undergrounding - Via de la Valle
- Proposed Bike Path - None



Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\Water & Sewer Projects\Water Projects\Remaining 16-Inch, 18-Inch & Larger C1CIP Tracking\Project Coordination Map\Predesign Project Coord Map 16f8 (9-16-2016).mxd



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission from the SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG. This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SANGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.

# DESIGN PROJECT COORDINATION MAP

## 16-In & LARGER CI WTR MAIN & SWR REPL

(MAP 2 OF 7)



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission without the written permission of SANDAG. This product may contain information reproduced with permission by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal or commercial use.

LIMITED TO THE IMPLIED WARRANTIES OR CONDITIONS ARISING FROM THE COURSE OF DEALING OR USAGE OF TRADE. RAND McNALLY & COMPANY is not responsible for any errors or omissions in this map or data. RAND McNALLY & COMPANY is not responsible for any errors or omissions in this map or data. RAND McNALLY & COMPANY is not responsible for any errors or omissions in this map or data.



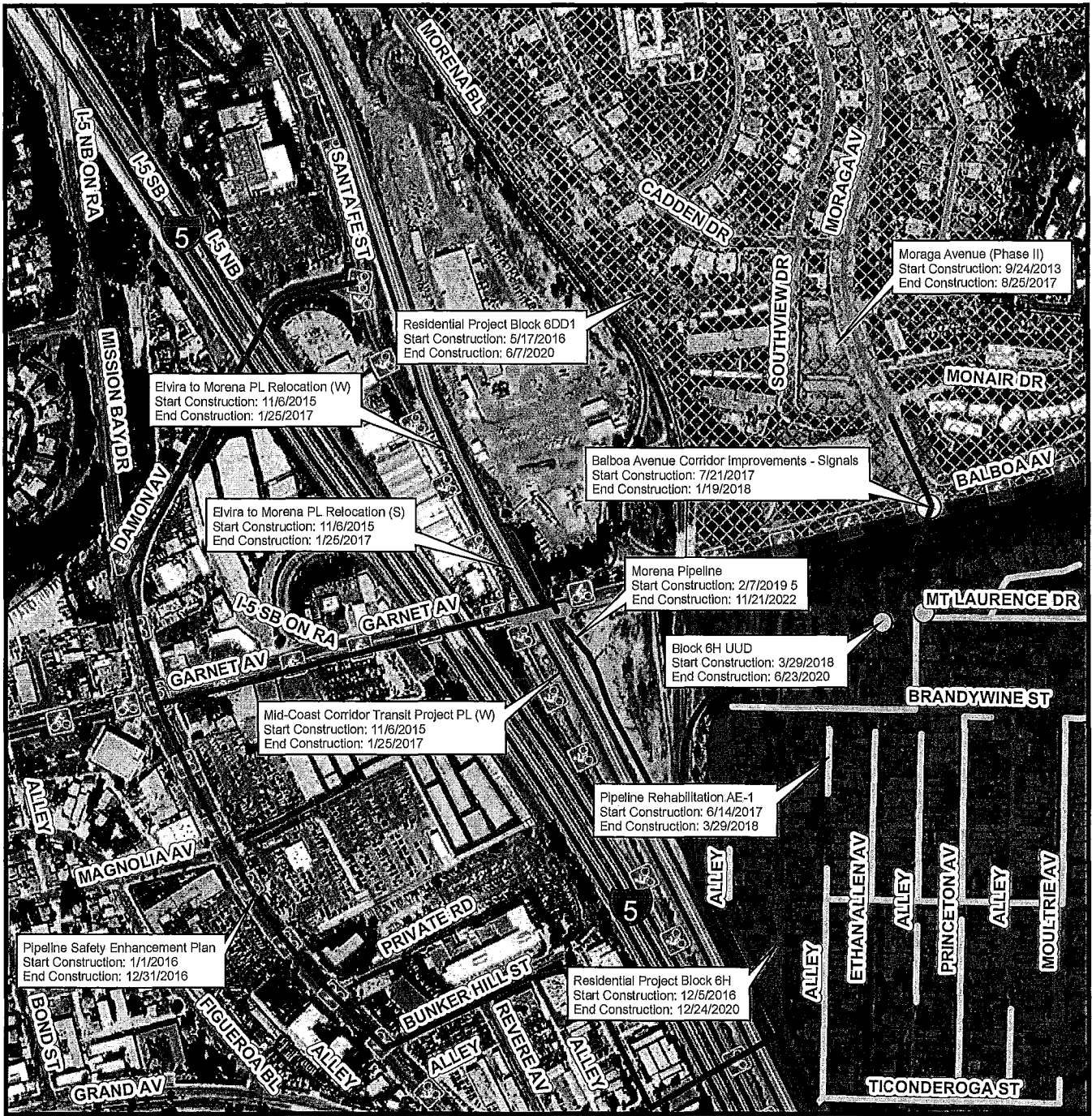
<b>Legend</b>	
<ul style="list-style-type: none"> <li> Proposed Water Main</li> <li> Traffic Signal Upgrades Citywide FY14</li> <li> Proposed Bike Path</li> </ul>	<ul style="list-style-type: none"> <li> Bannock Avenue Streetscape Enhancement</li> <li> University and Clairemont SD</li> <li> Water Group Job 936</li> </ul>

Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\Water & Sewer Projects\Water Projects\Remaining 16-Inch, 18-Inch & Larger CIP Tracking\Project Coordination Map\PreDesign Project Coord Map 2of8 (8-16-2016).mxd

# DESIGN PROJECT COORDINATION MAP

## 16-In & LARGER CI WTR MAIN & SWR REPL

(MAP 3 OF 7)



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission from SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG. This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SANGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.

Legend			
	Proposed Water Main		Elvira to Morena PL Relocation (W)
	Proposed Sewer Main		Mid-Coast Corridor Transit Project PL (W)
	Balboa Avenue Corridor Improvements - Signals		Morena Pipeline
	Block 6H UUD		Pipeline Rehabilitation AE-1
	Elvira to Morena PL Relocation (S)		Pipeline Safety Enhancement Plan
			Water Group Job 962
			Residential Project Block 6DD1
			Moraga Avenue (Phase II)
			Residential Project Block 6H
			Proposed Bike Path



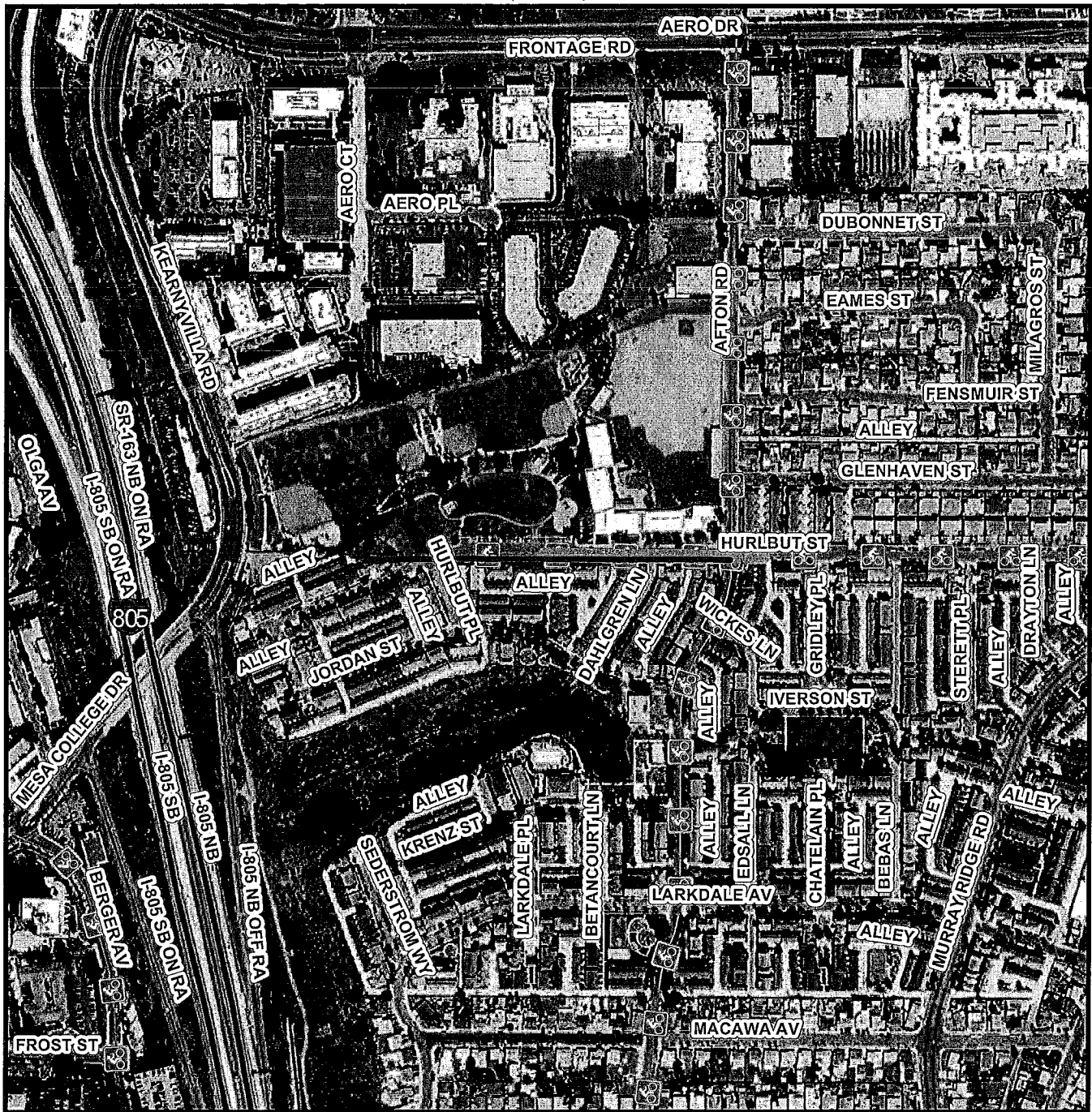
Document Path: S:\PITS\178-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\Water & Sewer Projects\Water Projects\Remaining 16-Inch, 18-Inch & Larger CI\CI Tracking\Project Coordination Map\PreDesign Project Coord Map 3of6 (9-16-2016).mxd








DESIGN PROJECT COORDINATION MAP  
**16-In & LARGER CI WTR MAIN & SWR REPL**

(MAP 4 OF 7)



**Legend**

-  Proposed Water Main
-  Proposed Sewer Main
-  Proposed Bike Path



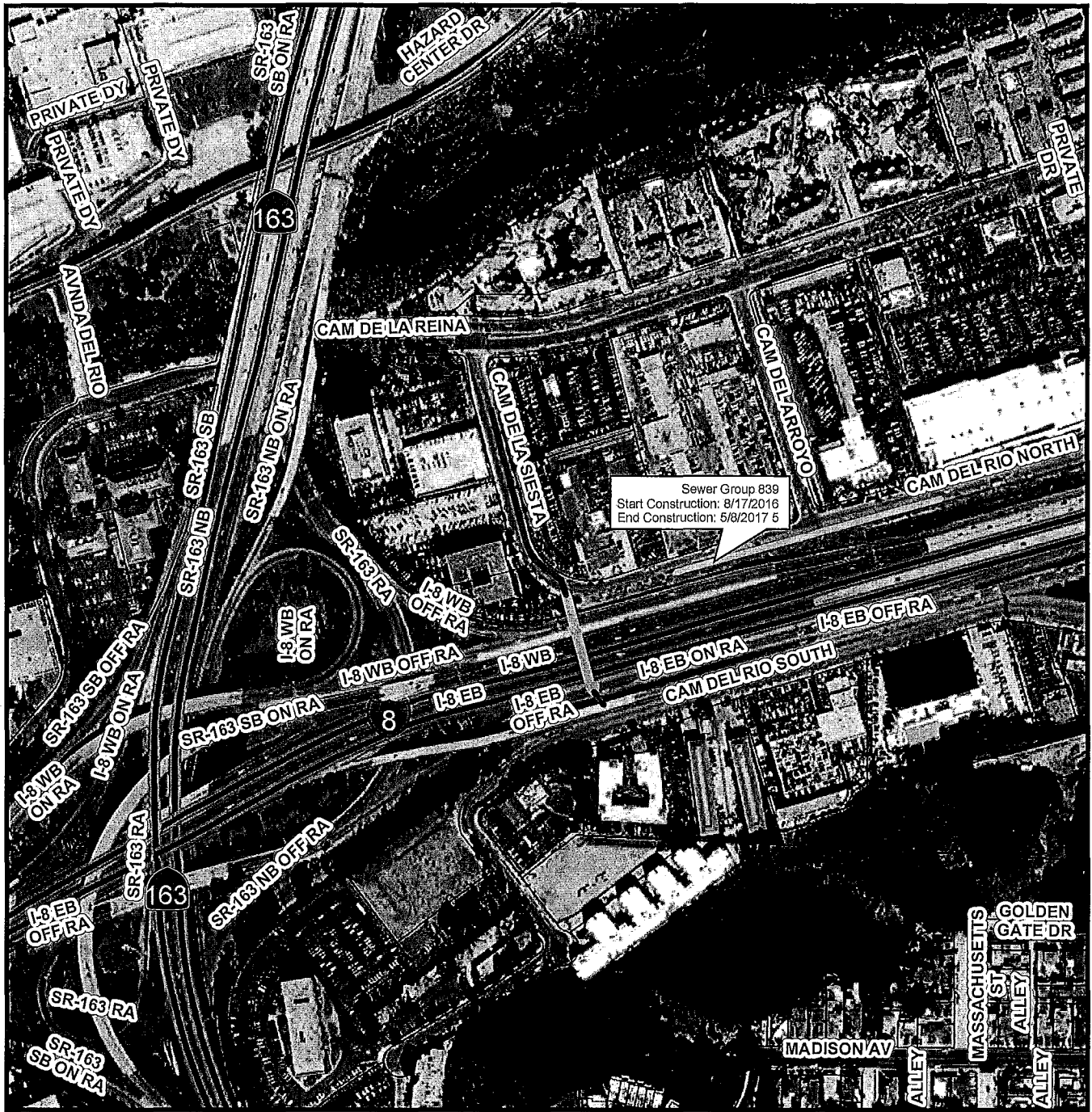
Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\Water & Sewer Projects\Water Projects\Remaining 16-Inch, 16-Inch & Larger CI\CI\Tracking\Project Coordination Map\PreDesign Project Coord Map 4of8 (9-16-2016).mxd

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SANGIS. This map is copyrighted without the written permission of SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SANGIS. This map is copyrighted by RAND MCNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND MCNALLY & COMPANY.

# DESIGN PROJECT COORDINATION MAP

## 16-In & LARGER CI WTR MAIN & SWR REPL

(MAP 5 OF 7)



Sewer Group 839  
 Start Construction: 8/17/2016  
 End Construction: 5/8/2017

**Legend**

- Proposed Water Main
- Abandon\_Mains
- Sewer Group 839
- Proposed Bike Path - None



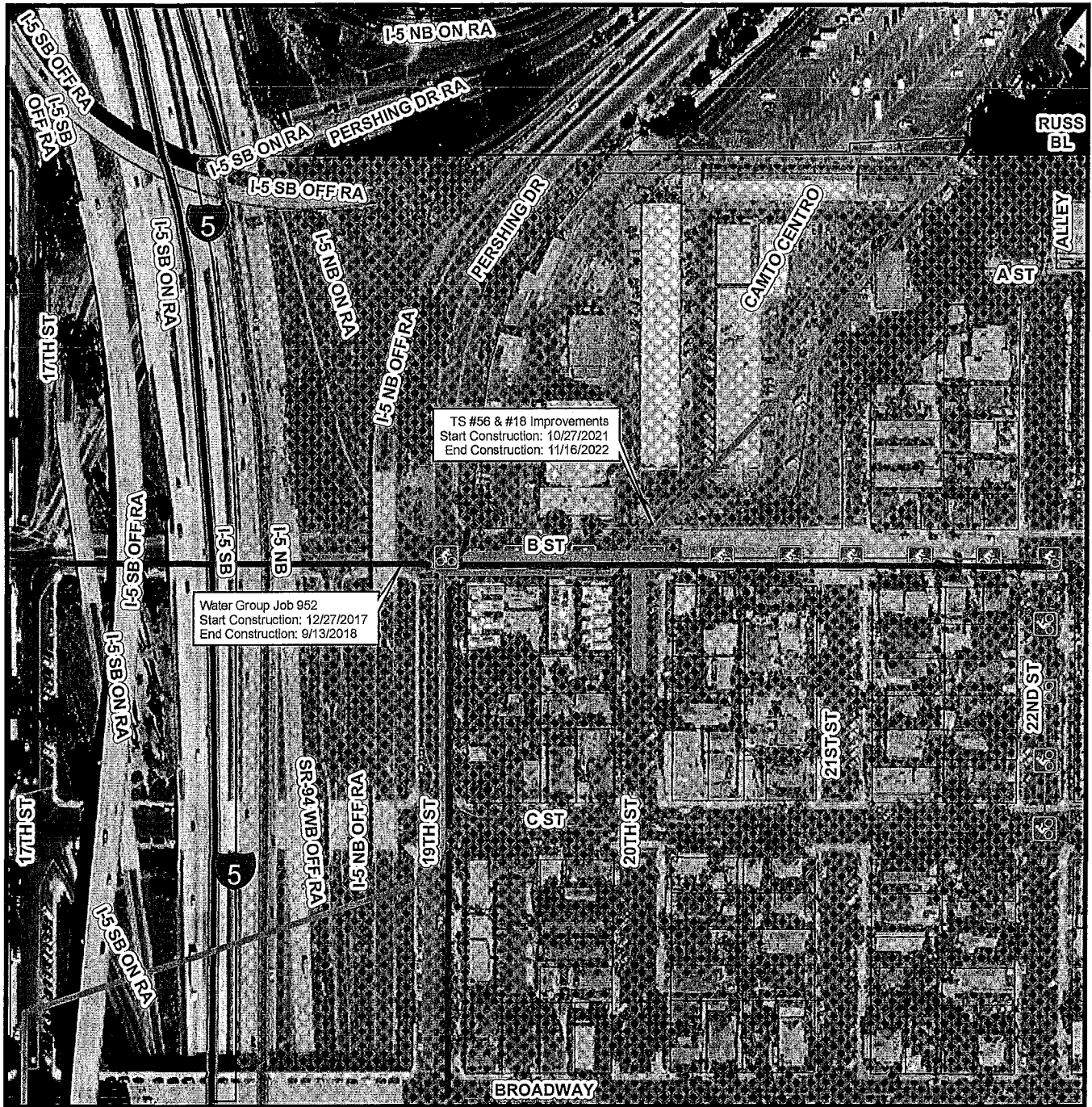
THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SanGIS. This map is copyrighted by RAND MCNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND MCNALLY & COMPANY.

Document Path: S:\PITS\SPITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\Water & Sewer Projects\Water Projects\Remaining 16-Inch, 18-Inch & Larger CI\CIIP Tracking\Project Coordination Map\PreDesign Project Coord Map 6of8 (9-16-2016).mxd

# DESIGN PROJECT COORDINATION MAP

## 16-In & LARGER CI WTR MAIN & SWR REPL

(MAP 6 OF 7)



### Legend

- Proposed Water Main
- Proposed Sewer Main
- Proposed Bike Path selection
- Golden Hill CR Obstruction B St DIF 14
- TS #56 & #18 Improvements
- Water Group Job 952
- Residential Project Block 8B



No Scale

Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\Water & Sewer Projects\Water Projects\Remaining 16-Inch, 18-Inch & Larger CIP Tracking\Project Coordination Map\Pre-design Project Coord Map 7of8 (9-16-2016).mxd

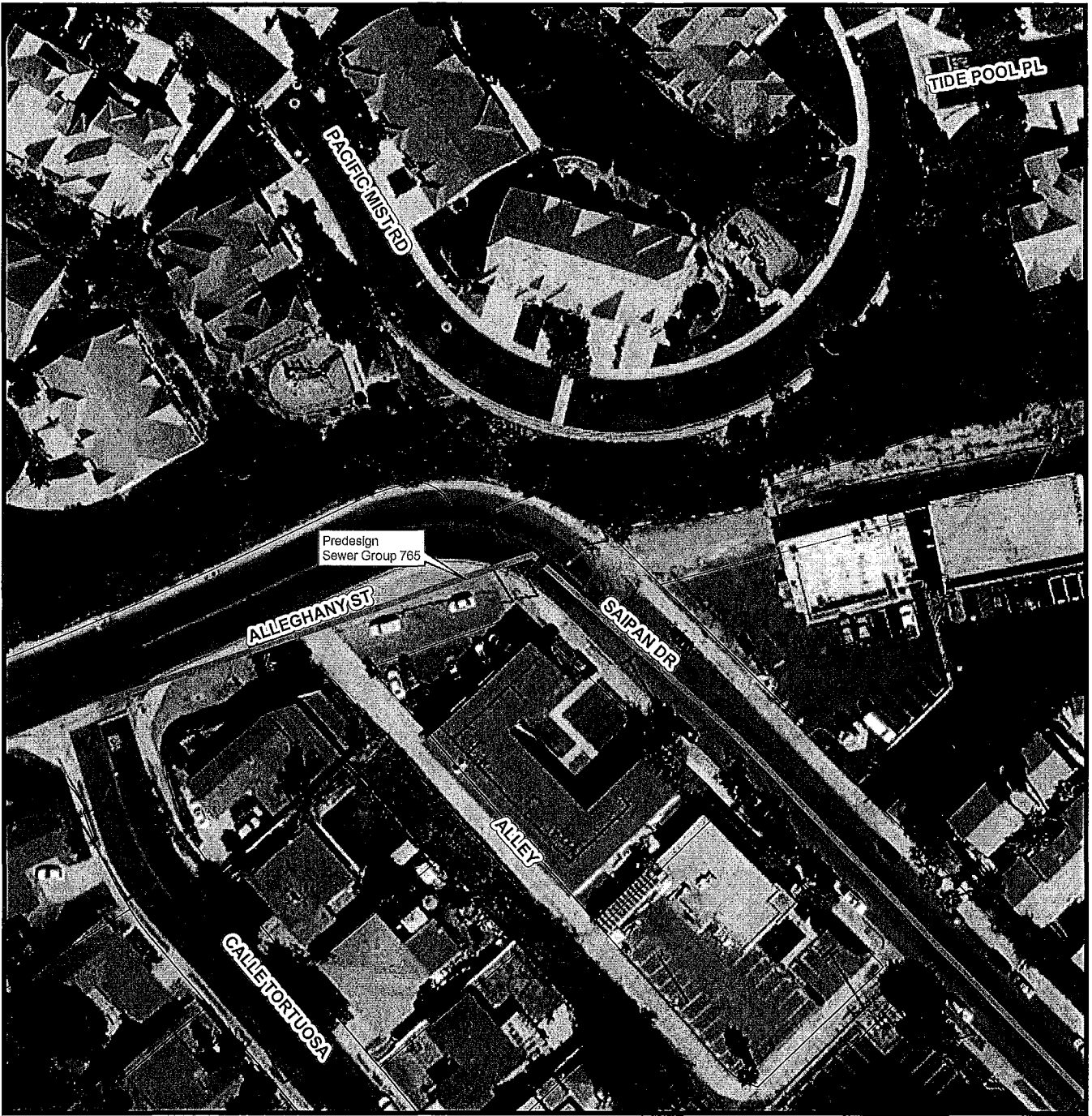
THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SanGIS. This map is copyrighted without the written permission of SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SanGIS. This map is copyrighted by RAND MCNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND MCNALLY & COMPANY.



DESIGN PROJECT COORDINATION MAP

# 16-In & LARGER CI WTR MAIN & SWR REPL

(MAP 7 OF 7)



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY © to SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY © to SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY © to SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY © to SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY © to SANDAG. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND MCNALLY & COMPANY.

- | Legend |                           |
|--------|---------------------------|
|        | Proposed Water Main       |
|        | Sewer Group 765           |
|        | Proposed Bike Path - None |



No Scale

Document Path: S:\PITS\UITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\Water & Sewer Projects\Water Projects\Remaining 16-Inch, 18-Inch & Larger CI\CIIP Tracking\Project Coordination Map\Predesign Project Coord Map 6 of 6 (9-18-2016).mxd



**APPENDIX G**  
**SAMPLE OF PUBLIC NOTICE**



# FOR SAMPLE REFERENCE ONLY



## CONSTRUCTION NOTICE

### PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

**The work will consist of:**

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
- Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
- This work is anticipated to be complete in your community by December 2016.

**How your neighborhood may be impacted:**

- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
- Temporary water service disruptions are planned. If planned disruptions impact your property, you will receive advance notice.
- Parking restrictions will exist because of the presence of construction equipment and materials.
- "No Parking" signs will be displayed 72 hours in advance of the work.
- Cars parked in violation of signs will be TOWED.

**Hours and Days of Operation:**

Monday through Friday X:XX AM to X:XX PM.

**City of San Diego Contractor:**

Company Name, XXX-XXX-XXXX



## CONSTRUCTION NOTICE

### PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

**The work will consist of:**

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
- Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
- This work is anticipated to be complete in your community by December 2016.

**How your neighborhood may be impacted:**

- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
- Temporary water service disruptions are planned. If planned disruptions impact your property, you will receive advance notice.
- Parking restrictions will exist because of the presence of construction equipment and materials.
- "No Parking" signs will be displayed 72 hours in advance of the work.
- Cars parked in violation of signs will be TOWED.

**Hours and Days of Operation:**

Monday through Friday X:XX AM to X:XX PM.

**City of San Diego Contractor:**

Company Name, XXX-XXX-XXXX

To contact the City of San Diego: **Public Works**  
619-533-4207 | [engineering@sandiego.gov](mailto:engineering@sandiego.gov) | [sandiego.gov/CIP](http://sandiego.gov/CIP)

This information is available in alternative formats upon request.  
Appendix G - Sample of Public Notice

16 Inch and Larger CI Water Main and Sewer Replacement Group A

To contact the City of San Diego: **Public Works**  
619-533-4207 | [engineering@sandiego.gov](mailto:engineering@sandiego.gov) | [sandiego.gov/CIP](http://sandiego.gov/CIP)

This information is available in alternative formats upon request.

**APPENDIX H**  
**HAZARDOUS FORMS/LABEL**

# INCIDENT/RELEASE ASSESSMENT FORM <sup>1</sup>

## If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

### Questions for Incident Assessment:

- |   | YES                      | NO                       |
|---|--------------------------|--------------------------|
| 1. Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Did anyone, other than employees in the immediate area of the release, evacuate?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Did the release cause off-site damage to public or private property?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Is the release greater than or equal to a reportable quantity (RQ)?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was there an uncontrolled or unpermitted release to the air?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?               | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment? | <input type="checkbox"/> | <input type="checkbox"/> |

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

\*Call 911 in an emergency\*

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a “no” response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

<sup>1</sup> This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

# NON REPORTABLE RELEASE INCIDENT FORM

## 1. RELEASE AND RESPONSE DESCRIPTION

Incident # \_\_\_\_\_

Date/Time Discovered	Date/Time Discharge	Discharge Stopped <input type="checkbox"/> Yes <input type="checkbox"/> No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

## 2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

## 3. CHEMICAL INFORMATION

Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

**EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM**

<b>A</b>	BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER (   )   -
<b>B</b>	INCIDENT MO DAY YR DATE	TIME OES NOTIFIED (use 24 hr time)
<b>C</b>	INCIDENT ADDRESS LOCATION	CITY / COMMUNITY COUNTY ZIP
<b>D</b>	CHEMICAL OR TRADE NAME (print or type)	CAS Number
<b>E</b>	CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A <input type="checkbox"/>	CHECK IF RELEASE REQUIRES NOTIFICATION UNDER 42 U.S.C. Section 9603 (a) <input type="checkbox"/>
<b>F</b>	PHYSICAL STATE CONTAINED <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS	PHYSICAL STATE RELEASED <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS
<b>G</b>	ENVIRONMENTAL CONTAMINATION <input type="checkbox"/> AIR <input type="checkbox"/> WATER <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER	QUANTITY RELEASED TIME OF RELEASE DURATION OF RELEASE ____DAYS ____HOURS ____MINUTES
<b>H</b>	ACTIONS TAKEN	
<b>I</b>	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information) <input type="checkbox"/> ACUTE OR IMMEDIATE (explain) _____ <input type="checkbox"/> CHRONIC OR DELAYED (explain) _____ <input type="checkbox"/> NOTKNOWN (explain) _____	
<b>J</b>	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS	
<b>K</b>	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)	
<b>L</b>	CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete. REPORTING FACILITY REPRESENTATIVE (print or type) _____ SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____ DATE: _____	

## **EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM INSTRUCTIONS**

### **GENERAL INFORMATION:**

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

### **BASIC INSTRUCTIONS:**

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

### **SPECIFIC INSTRUCTIONS:**

**Block A:** Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

**Block B:** Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

**Block C:** Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

**Block D:** Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

**Block E:** Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

**Block F:** Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

**Block G:** Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

**Block H:** List any additional pertinent information.

**Block I:** Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

### **MAIL THE COMPLETED REPORT TO:**

**State Emergency Response Commission (SERC)  
Attn: Section 304 Reports  
Hazardous Materials Unit  
3650 Schriever Avenue  
Mather, CA 95655**

**NOTE:** Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

# HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL  
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY  
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY  
OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

GENERATOR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

24 HR. PHONE \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

EPA ID NO. \_\_\_\_\_ MANIFEST DOCUMENT NO. \_\_\_\_\_

EPA WASTE NO. \_\_\_\_\_ CA WASTE NO. \_\_\_\_\_ ACCUMULATION START DATE \_\_\_\_\_

CONTENTS, COMPOSITION \_\_\_\_\_

PROPER DOT SHIPPING NAME \_\_\_\_\_

TECHNICAL NAME (S) \_\_\_\_\_

UNNA NO. WITH PREFIX \_\_\_\_\_

PHYSICAL STATE | HAZARDOUS PROPERTIES |  FLAMMABLE |  TOXIC  
 SOLID |  LIQUID |  CORROSIVE |  REACTIVE |  OTHER \_\_\_\_\_

**HANDLE WITH CARE!**  
CONTAINS HAZARDOUS OR TOXIC WASTES

## APPENDIX I

### ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION



## **Protecting AMI Devices in Meter Boxes and on Street Lights**

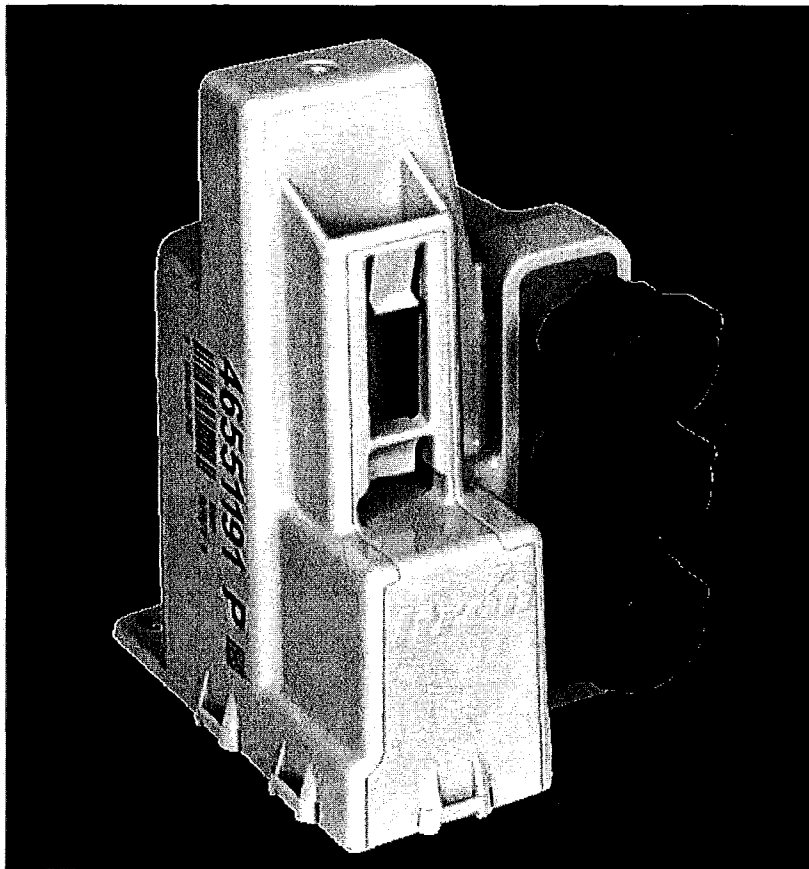
The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. **All AMI devices shall be protected per Section 5-2, "Protection", of the 2015 Whitebook.**

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

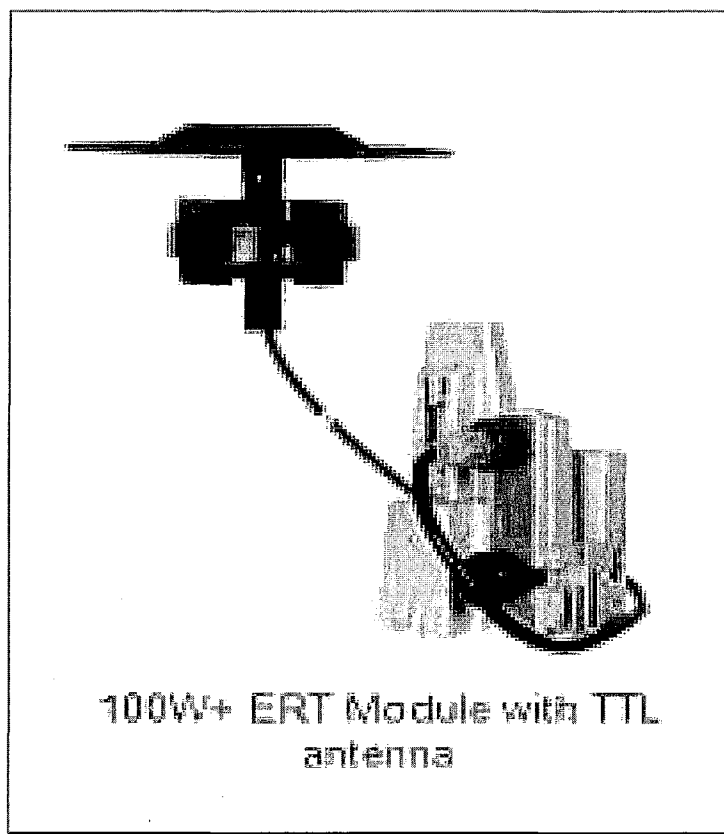
- A. Endpoints, see Photo 1:

**Photo 1**



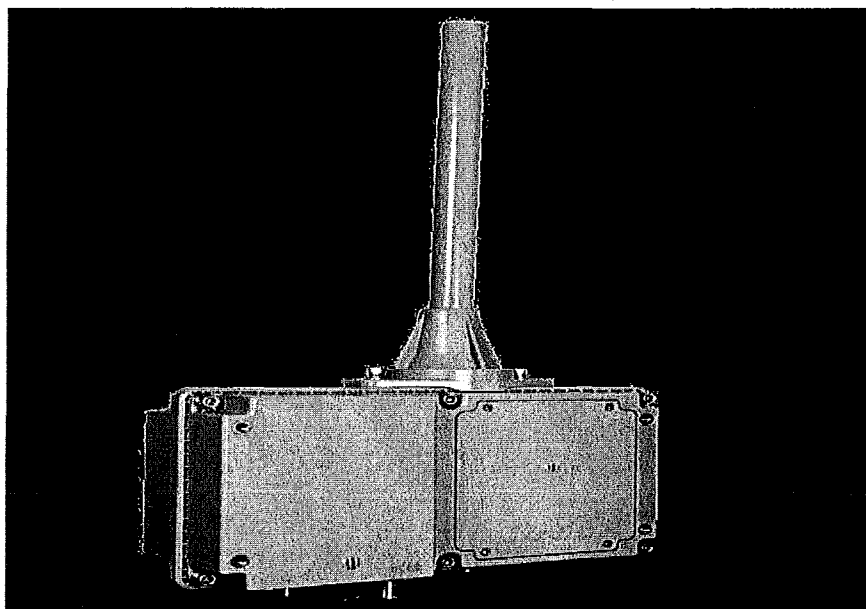
B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:

**Photo 2**



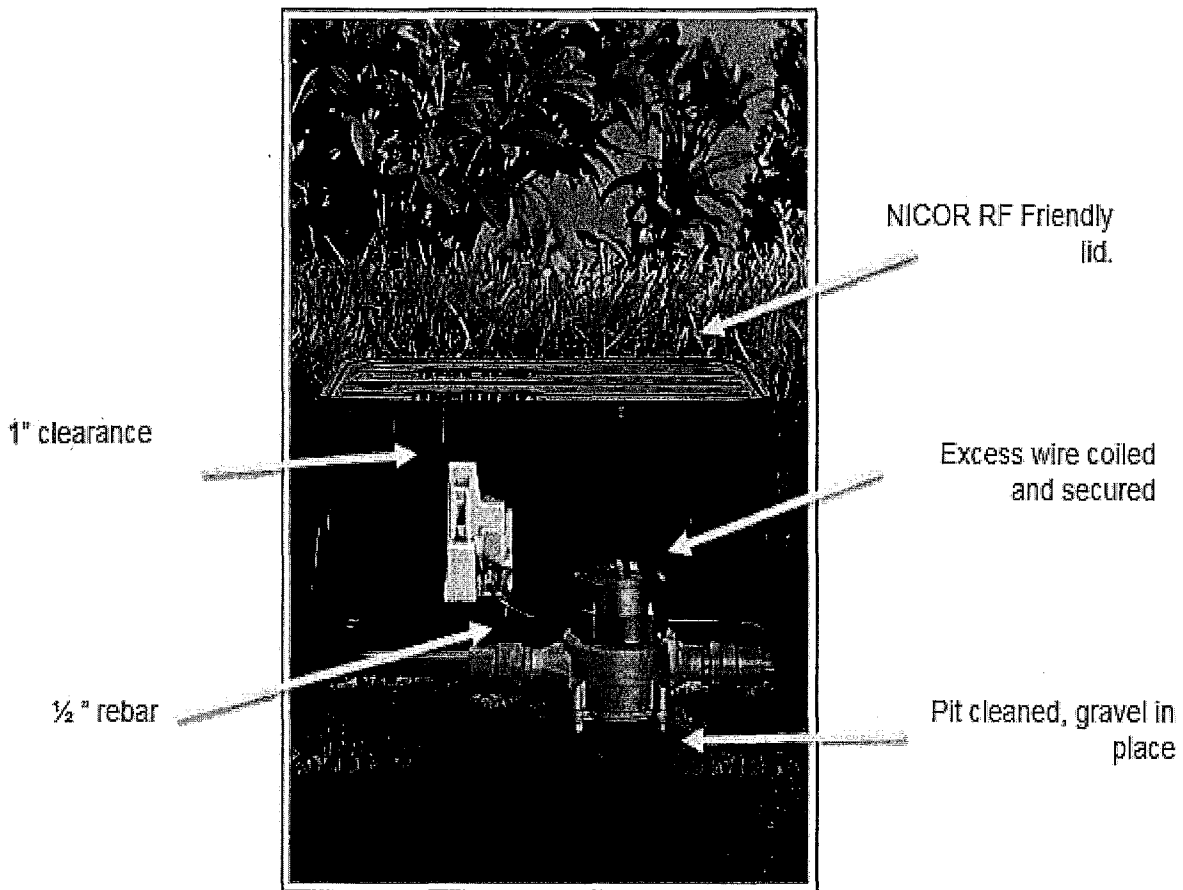
Network Devices, see Photo 3:

**Photo 3**



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

**Photo 4**



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

**The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document**

Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

**Photo 5**

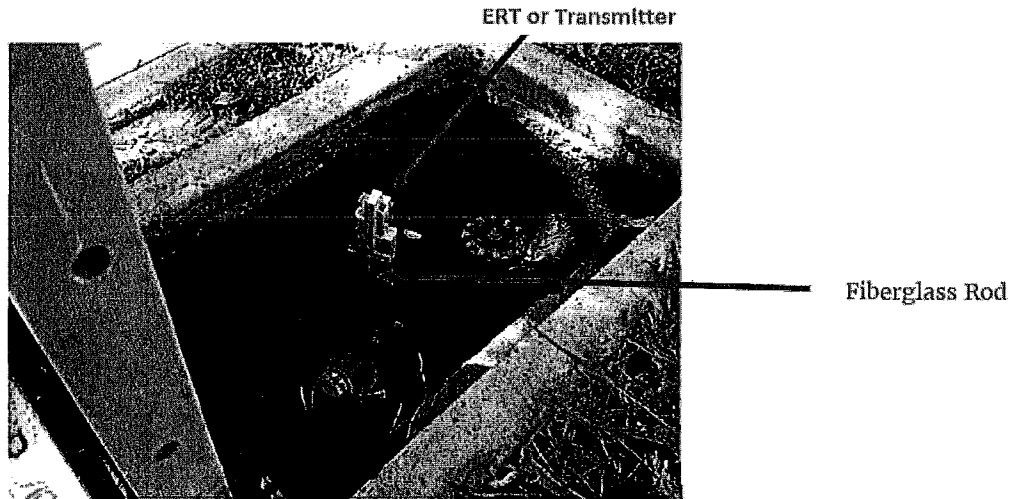
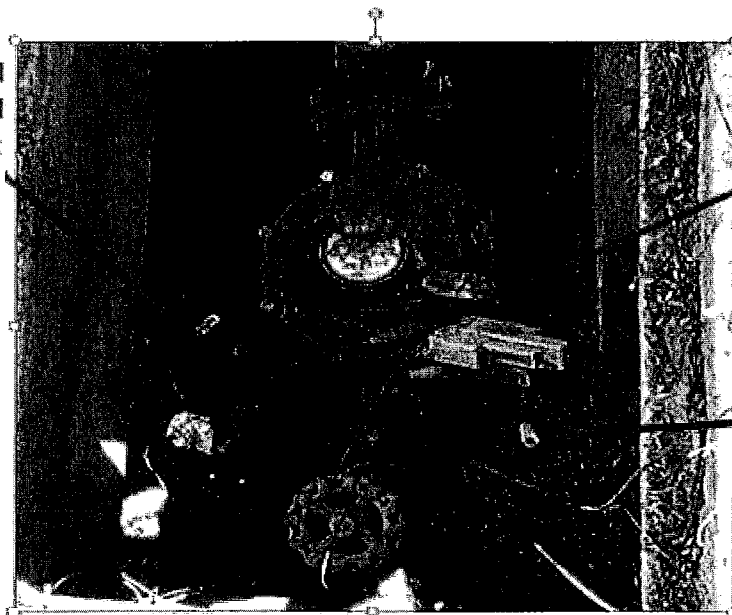


Photo 6 below is an example of disturbance that shall be avoided:

**Photo 6**

The antenna was drilled into the lid and now it is removed



**You are responsible when working in and around meter boxes.** If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

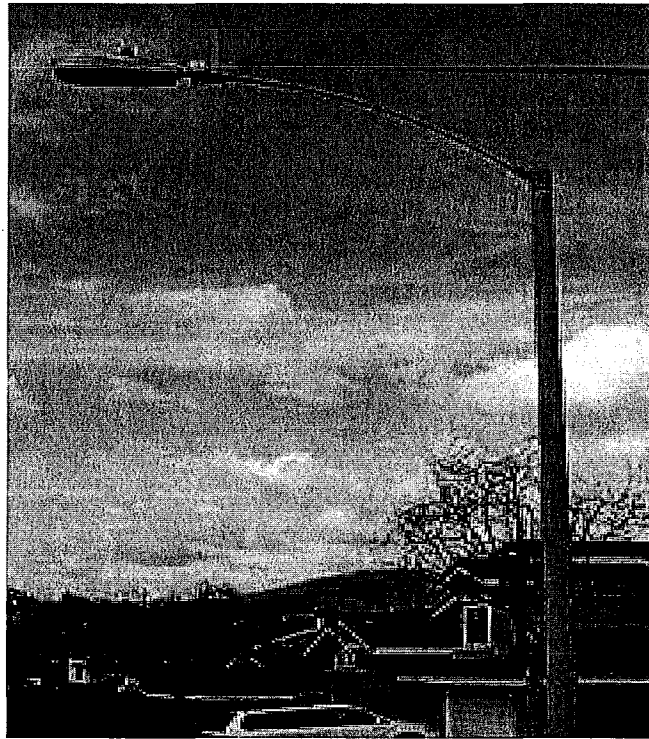
**Photo 7**



Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.

**Photo 8**



**Network Device**

**Photo 9**



**If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.**

**ATTACHMENT F**  
**INTENTIONALLY LEFT BLANK**

**ATTACHMENT G**  
**EVALUATION AND SELECTION CRITERIA**



## ATTACHMENT G

### EVALUATION AND SELECTION

Proposals will be ranked according to the criteria described below:

#### 1. Addenda to this RFP – Pass / Fail

- a. The Proposer shall acknowledge each addendum issued in connection with this RFP, by listing all issued addenda on an Addenda Acknowledgement sheet to be submitted with the Proposal. Failure to acknowledge all issued addenda may result in the Proposal being considered **non-responsive** and ineligible for further consideration.
- b. Including copies of addenda with the Proposal shall not constitute acknowledgement of issued addenda.

#### 2. Proposer Exceptions to this RFP – Pass / Fail

- a. If the Proposer takes exception to any portion of the contract terms, the Proposer must identify and explain to the City in writing the basis for the exception. The Proposer must submit any claimed exception a minimum of 10 calendar days prior to the due date for submission of Proposals. Exceptions taken after the submission period for this RFP may be cause for rejection of the Proposal as being **non-responsive**.

#### 3. Subcontracting Participation Percentages – Pass / Fail

- 3.1. If the Design-Builder fails to meet the minimum subcontracting participation percentages, the Proposal will be considered non-responsive and rejected.

#### 4. Summary of Proposal (5 Points Max)

- a. Each Proposer must submit a one to two page summary of its Proposal.

#### 5. Project Team (5 Points Max)

- a. Describe the proposed management plan for this Project. Describe the qualifications of key proposed construction and technical personnel, and subcontractors, from applicable fields including the following:
  - 5.1.1 Civil
  - 5.1.2 Structural
  - 5.1.3 Environmental
  - 5.1.4 Geotechnical
  - 5.1.5 Corrosion

## 6. Technical Approach and Design Concept (40 Points Max)

- a. Describe in detail the proposed design concept for this Project. Include detailed descriptions, conceptual design drawings, schematics, a list of major equipment, and any other information deemed necessary to allow the City to make an informed evaluation of the Proposer's technical approach. The completeness and technical merit of the design concept will be evaluated.

The following elements shall be included in this Technical Proposal:-Pipeline alignment, sizes and locations of appurtenances.

- Traffic Control Approach - The Design-Builder shall describe its general approach to developing a traffic control and local access management plan (Traffic Control Plan).
- Paving Restoration and street resurfacing.
- Water highlining plan for each site (if any)
- Phasing of design and construction work of each site separately
- Curb Ramp Design and Installation plan pursuant to the ADA Preliminary Engineering report (part of the bridging documents) and highlight any Modification, if any.
- Phasing and Coordination with Adjacent Projects
- Coordination with other agencies as applicable for each site and getting permits as applicable.
- Storm Water Pollution Control Best Management Practices
- Subsurface Investigation and Geotechnical Work
- Proposed Design Schedule: Outline the proposed design schedule, including sequencing of each major design component (30%, 60%, 100%, Final Design) and proposed durations.
- Permit; the Design-Builder shall identify what permits are required for each site and what is the proposed plan/timeline to obtain the required permits.
- Quality Assurance/Quality Control Plan (QA/QC Plan) - The Design-Builder shall submit a QA/QC Plan specifically developed for this Project.

## 7. Construction Plan (40 Points Max)

- a. Describe the proposed construction plan for this Project, including the following, at a minimum:
  1. Construction approach and methods
  2. Plan for operation of facility during construction
  3. Plan for phasing of construction activities
  4. General plan for functional testing and start-up.
  5. Proposed safety program
  6. Proposed emergency response plan
  7. Water highlining plan for each site
  8. Phasing of design and construction work of each site separately
  9. Proposed construction schedule
  10. Traffic Control Management
  11. Community Impact
- b. Project Coordination - The Design-Builder shall identify the following:
  1. The processes and procedures it will use to ensure that all Work is properly coordinated.
  2. The design and construction coordination requirements with governmental entities and agencies, utilities, Underground Service Alert, City forces, and all other persons or entities involved in infrastructure improvements or otherwise affected by Project design and construction requirements.
  3. The design coordination system between drawings and specifications and disciplines.
  4. The system for tracking questions and responses.
  5. The system for coordinating work among subcontractors and equipment manufacturers.
- c. Critical Path Schedule - The RFP requires the Design-Builder to complete the Project within a certain number of Working Days. The Design-Builder shall include a summary level critical path method (CPM) schedule in the form of a bar chart that identifies all Project milestones set forth in this RFP, including its Attachments such as additional tasks or milestones, as well as all critical activities the Design-Builder anticipates performing and coordinating with others to complete the Project. The Design-Builder

shall include with the schedule a narrative explaining detailed procedures for ensuring all Project milestones are met. Proposals that show valid means to reduce the duration of the Project may be given favorable consideration if they demonstrate realistic activity durations and no increase in Project cost.

- d. Challenges/Issues - Identify what your team believes to be the largest challenges associated with this Project. Describe how your team has overcome similar challenges on a previous Project your team has participated in. Proposals shall describe the Design-Builder's understanding of the design and technical issues involved in the Project, including those related to design review, value engineering, proposals, general contracting, schedule, site mobilization, constructability, construction sequencing, quality control, code compliance, and cost containment.
- e. Describe any cost saving measures, not included in your proposal that the City of San Diego Team should consider, and the Design-Builder is willing to implement. For each recommendation, the percentage of your price proposal or time would be saved.

#### **8. Community Impact (10 Points Max)**

- a. Community Outreach and Public Relations Program - The Design-Builder shall describe its general approach to building relations between the Design-Builder and the community, including how the Design-Builder will provide effective public information and respond to public concerns. The Design-Builder shall work cooperatively with the City's team and creatively integrate the needs of the community into the design of the Project.
- b. Community Coordination - Due to the summer moratoriums, how do you plan to phase the project and keep the community informed?
- c. Staging Area and project cleanup - What is your plan for staging area and project cleanup (during construction and moratorium phases) to minimize residents and visitors concerns?
- d. Residents and Visitors - how will traffic and bus stops be impacted? How will you minimize the impacts?
- e. Construction mitigation plan to minimize impacts to local businesses (i.e. impacts the business access and parking)

**TOTAL POINTS: 100**

#### **9. Review of Technical Proposal**

- a. Following the receipt of the Technical Proposal, the City anticipates allotting 2 weeks for review of the Technical Proposals.

**10. Final Selection Based On Adjusted Low Proposal**

- a. The ranking of each Design-Builder during the Technical Proposal review will serve as the divisor of the Price Proposal and determine the weighted price.
- b. Following review of the Technical Proposals, the resulting qualitative evaluation scores will be totaled, averaged and converted to a decimal. The Proposal price will then be divided by the scores from the Technical Proposals. This becomes the Adjusted Low Proposal. The lowest adjusted proposal will be recommended for contract award. The adjustment to the Price Proposal is for selection purposes only. The Price Proposal as submitted is the actual Contract Price.
- c. The following example illustrates the process:

Design-Builder	Qualitative Score (100 Maximum)	Price Proposal	Adjusted Price *
A	0.85	\$1,000,000.00	\$1,176,471
B	0.95	\$1,300,000.00	\$1,368,421
C	0.65	\$900,000.00	\$1,384,615

\* The adjustment to the Proposal is for selection only. Firm "A" has Adjusted Lowest Proposal. The Price Proposal is the actual Contract amount.

**ATTACHMENT H**

**PRICE FORMS**

**PRICE PROPOSAL FORMS**

The Design-Builder agrees to the design and construction of **16 Inch and Larger CI Water Main and Sewer Replacement Group A**, for the City of San Diego, in accordance with these contract documents for the lump sum price listed below. The Design-Builder guarantees the proposed prices for a period of 120 Days from the date Proposals are due. The duration of the price guarantee may be extended as required by mutual consent.

Item No.	NAICS CODE	Description	Quantity	D*	Unit	Unit Price	Extension
<b>BASE PROPOSAL</b>							
1	524126	Bonds (Payment and Performance)	1		LS	<del>                    </del>	\$ 47,000. <sup>00</sup>
2	541330	Engineering and Design Services	1	D	LS	<del>                    </del>	\$ 478,000. <sup>00</sup>
3	237110	Construction	1		LS	<del>                    </del>	\$ 4,237,500. <sup>00</sup>
4	237310	Caltrans Encroachment Permit - (EOC Type I)	1		AL	<del>                    </del>	\$5,500.00
5		City Contingency (EOC Type II)	1		AL	<del>                    </del>	\$284,130.00
6	541330	WPCP Development	1	D	LS	<del>                    </del>	\$ 2,000. <sup>00</sup>
7	237990	WPCP Implementation	1		LS	<del>                    </del>	\$ 35,000. <sup>00</sup>
8	541370	Survey Services (Design)	1	D	LS	<del>                    </del>	\$ 70,000. <sup>00</sup>
<b>TOTAL DESIGN-BUILD BASE PROPOSAL (ITEMS NO 1 THROUGH 8 INCLUSIVE):</b>							<b>\$ 5,159,130.<sup>00</sup></b>

\* Design Element (For City Use)

Total Price For Design-Build Proposal, (items 1 through 8, inclusive) amount written in words:

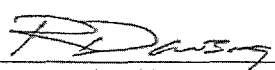
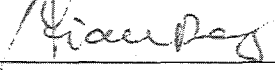
FIVE MILLION, ONE HUNDRED FIFTY NINE THOUSAND, ONE HUNDRED THIRTY DOLLARS AND NO CENTS.

Design-Builder: Orion Construction Corporation / Balboa Construction, Inc. J.V.

Title: President, Orion Construction / President, Balboa Construction, Inc. J.V.

Signature: \_\_\_\_\_

The names of all persons interested in the foregoing proposal as principals are as follows:

	
Richard Dowsing	Fia Dowsing
_____	
_____	

IMPORTANT NOTICE: If Design-Builder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Design-Builder or other interested person is an individual, state first and last names in full.



NOTES:

- A. The Contract Price to be used in the selection process as described in Attachment G of the RFP will be determined by the base proposal alone.
- B. After the selected Design-Builder has been determined, the City may, at its sole discretion, award the contract for the Base Proposal alone or for the Base Proposal plus one or more alternates.
- C. Proposals shall not contain any recapitulation of the Work. Conditional Proposals may be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.
- D. Subcontractors' License Numbers must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.
- E. Blank spaces must be filled in. The Design-Builder's failure to submit a price may render the Proposal non-responsive and ineligible for award.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of conflict between the Product of the Quantity x Unit Price and the written Extension, the Product shall govern.
- H. In the case of conflict, between the sum of the Extensions and the Bid Total, the sum of the Extensions shall govern.

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB#	WHERE CERTIFIED <sup>m</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Rancho Coastal Engineering</u> Address: <u>310 Via Vera Cruz #205</u> City: <u>San Marcos</u> State: <u>CA</u> Zip: <u>92078</u> Ph: <u>760-510-3152</u> Email: <u>Jake@rcesd.com</u>	Design	N/A Consultant	Design Survey	\$40,000.-	ELBE	City	
Name: <u>Humanability</u> Address: <u>4452 Park Blvd. #208</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92116</u> Ph: <u>619794-6406</u> Email: <u>paula@humanability.biz</u>	Design	N/A Consultant	Community Liaison Plan	\$25,000.-	ELBE	City	

G) As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

m As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED <sup>m</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Southern California Soils Testing</u> Address: <u>6280 Riverdale Street</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92120</u> Ph: <u>619-280-4321</u> Email: <u>award@scst.com</u>	Designer	N/A Consultant	Geotechnical Report	\$10,000-	DVBE	CADoGS	
Name: <u>Air-X</u> Address: <u>2534 East El Norte Parkway</u> City: <u>Escondido</u> State: <u>CA</u> Zip: <u>92027</u> Ph: <u>760-480-2347</u> Email: <u>stuetting@airxus.com</u>	Design	A, 830790 DIR 1000008968	Portions of Design Potholing	\$25,000-	SLBE	City	

G) As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

m As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB#	WHERE CERTIFIED <sup>m</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Harris and Associates</u> Address: <u>600 B Street Suite 2000</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92101</u> Ph: <u>619-814-9509</u> Email: <u>Jason.caprio@weareharris.com</u>	Designer	N/A Consultant	Designer of Record	\$ <u>265,440.-</u>	OBE		
Name: <u>Geo-Cell</u> Address: <u>2668 N. Fordman Avenue</u> City: <u>Fresno</u> State: <u>CA</u> Zip: <u>93727</u> Ph: <u>559-294-1551</u> Email: <u>doug_farmer@sbcglobal.net</u>	Construction	C-8, 938053  DIR 1000001454	Cellular Fill	\$ <u>13,000.-</u>	DVBE	CADoGS	

G) As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

m As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>m</sup>	WHERE CERTIFIED <sup>m</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Valor Constructors, Inc.</u> Address: <u>270-N El Camino Real, #385</u> City: <u>Encinitas</u> State: <u>CA</u> Zip: <u>92024</u> Ph: <u>866-496-1959</u> Email: <u>bbrown@valorconstructors.com</u>	Constructor	A, 991120 DIR 1000014220	Portions of Traffic Control	\$ 30,000	SLBE	City	
Name: <u>Brownlow Enterprises</u> Address: <u>P.O. Box 34</u> City: <u>Lakeside</u> State: <u>CA</u> Zip: <u>92040</u> Ph: <u>619-561-9693</u> Email: <u>salibrownlow@yahoo.com</u>	Constructor	N/A DIR 1000023701	Portions of Trucking	\$ 80,000	ELBE	City	

G) As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

m As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED <sup>m</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Sealright Paving</u> Address: <u>9053 Olive Drive</u> City: <u>Spring Valley</u> State: <u>CA</u> Zip: <u>91977</u> Ph: <u>619-465-7411</u> Email: <u>estimating@sealrightpaving.com</u>	Construction	A, 364113 DIR 1000039542	Portions of Asphalt Concrete Paving	\$ 200,000	OBE		
Name: <u>G. Scott Asphalt, Inc.</u> Address: <u>358 Trousdale Drive</u> City: <u>Chula Vista</u> State: <u>CA</u> Zip: <u>91901</u> Ph: <u>619-420-1854</u> Email: <u>chrissy@asphaltrepairs.com</u>	Construction	C12, 751836 DIR 1000004252	Slurry Seal	\$ 100,000	DVBE	CADoGS	

G) As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

m As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>d</sup> <sub>o</sub>	WHERE CERTIFIED <sup>m</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Miramar General Engineering</u> Address: <u>5595 Magnatron Blvd. Suite P</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92111</u> Ph: <u>858-251-4300</u> Email: <u>alex@miramargeneral.com</u>	Construction	A, 1009541 DIR 1000033057	Portions of Concrete Flatwork	* 250,000.-	ELBE	City	
Name: <u>Underground Pipeline Solutions</u> Address: <u>P.O. Box 145</u> City: <u>Alpine</u> State: <u>CA</u> Zip: <u>91903</u> Ph: <u>619-964-2276</u> Email: <u>upsimarty@gmail.com</u>	Construction	A, 956807 DIR 1000016650	Map 2 Watermain Pipeline and Appurtenances	* 491,000.-	SLBE	City	

G) As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

m As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>m</sup>	WHERE CERTIFIED <sup>m</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>LSI Roadmarking</u> Address: <u>P.O. Box 2426</u> City: <u>El Cajon</u> State: <u>CA</u> Zip: <u>92021</u> Ph: <u>619-443-7755</u> Email: <u>jeremy@lsiroadmarking.com</u>	Construction	C32, 775886 DIR 1000003495	Striping	\$60,000-	SLBE	City	
Name: <u>Humanability</u> Address: <u>4452 Park Blvd #208</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92116</u> Ph: <u>619-794-6406</u> Email: <u>paula@humanability.biz</u>	Construction	N/A Consultant	Community Outreach	\$25,000-	ELBE	City	

G) As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

m As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**



**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>d</sup>	WHERE CERTIFIED <sup>m</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Prolink Engineering</u> Address: <u>3014 Holly Road</u> City: <u>Alpine</u> State: <u>CA</u> Zip: <u>91901</u> Ph: <u>619-659-8995</u> Email: <u>prolinkwater@cox.net</u>	Constructor	854967 DIR 1000010373	Portions of Chlorination	*25,000	SLBE	City	
Name: <u>Air-X</u> Address: <u>2534 East El Norte Parkway</u> City: <u>Escondido</u> State: <u>CA</u> Zip: <u>92027</u> Ph: <u>760-480-2347</u> Email: <u>stueting@airxus.com</u>	Constructor	A, 830790 DIR 1000008968	Portions of Construction Potholing	*20,000	SLBE	City	

G) As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

m As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

For credit calculations for City-funded contracts, see Chapter 11 in The WHITEBOOK. For non-City funded contracts, refer to the Funding Agency Provisions. If no indication of the supplier, manufacturer, or non-supplier is provided, listed firm will receive no credit for purpose of calculating the Subcontractor Participation Percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>40</sup>	WHERE CERTIFIED <sup>40</sup>
Name: <u>Draves Pipeline</u> Address: <u>P.O. Box 1051</u> City: <u>Bonsall</u> State: <u>CA</u> Zip: <u>92003</u> Phone: <u>760-728-7094</u> Email: <u>dale@dravespipeline.com</u>	Portions of Pipeline Materials	\$150,000	Yes	No	DVBE	CADoGS
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____						

<sup>40</sup> As appropriate, Design-Builder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

<sup>40</sup> As appropriate, Design-Builder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**ATTACHMENT I**  
**CERTIFICATIONS AND FORMS**

## CERTIFICATIONS AND FORMS

**The Bidder / Proposer, by submitting its electronic bid or proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certifications, forms and affidavits submitted as part of this submission are true and correct.**

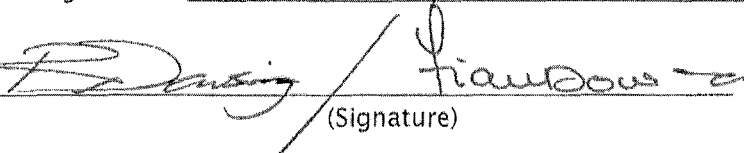
**Design-Build Proposal**

1. The undersigned The Design-Builder proposes and agrees, if this Proposal is accepted, to enter into an agreement with the City in the form included in the Contract Documents to perform the Work as specified or indicated in said Contract Documents entitled **16 Inch and Larger CI Water Main and Sewer Replacement Group A Design - Build Contract**
2. The Design-Builder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the RFP.
3. This Proposal will remain open for the period stated in the RFP unless otherwise required by law. The Design-Builder will enter into an agreement within the time and in the manner required in the RFP and will furnish the insurance certificates, Payment Bond, and Performance Bond required by the Contract Documents.
4. The Design-Builder has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as The Design-Builder deems necessary.

To all the foregoing, and including all Proposal schedule(s) and information required of the Design-Builder contained in this Proposal Form, said The Design-Builder further agrees to complete the Work and Services required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the Total Proposal Price(s) named in the aforementioned Proposal schedule(s).

Dated: June 9, 2017

The Design-Builder: Orion Construction Corporation / Balboa Construction, Inc. I.V.

By:  (Signature)

Title: President, Orion Construction / President, Balboa Construction

**PROPOSAL**

**Design-Builder's General Information**

To the City of San Diego:

Pursuant to the "Request for Proposal", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the proposer has not directly or indirectly induced or solicited any other proposer to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any proposer or anyone else to put in a sham proposal, or that anyone shall refrain from proposing; that the proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the proposal price of the proposer or any other proposer, or to fix any overhead, profit, or cost element of the proposal price, or of that of any other proposer, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the proposal are true; and, further, that the proposer has not, directly or indirectly, submitted his or her proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, proposal depository, or to any member or agent thereof to effectuate a collusive or sham proposal. The undersigned proposer(s) further warrants that proposer(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Proposal Documents therefore, and that by submitting said Proposal Documents as its proposal, proposer(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Proposal Documents.

**IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:**

- (1) Name under which business is conducted \_\_\_\_\_
- (2) Signature (Given and surname) of proprietor \_\_\_\_\_
- (3) Place of Business (Street & Number) \_\_\_\_\_
- (4) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_
- (5) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_
- (6) Email Address \_\_\_\_\_

**IF A PARTNERSHIP, SIGN HERE:**

- (1) Name under which business is conducted \_\_\_\_\_
- (2) Name of each member of partnership, indicate character of each partner, general or special (limited):

\_\_\_\_\_  
\_\_\_\_\_

- (3) Signature (Note: Signature must be made by a general partner)

\_\_\_\_\_

Full Name and Character of partner

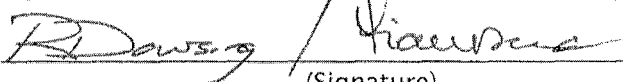
\_\_\_\_\_  
\_\_\_\_\_

- (4) Place of Business (Street & Number) \_\_\_\_\_
- (5) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_
- (6) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_
- (7) Email Address \_\_\_\_\_

**IF A CORPORATION, SIGN HERE:**

- (1) Name under which business is conducted: Orion Construction Corporation / Balboa Construction Inc., J.V.

- (2) Signature, with official title of officer authorized to sign for the corporation:

  
(Signature)

Richard Dowsing Fia Dowsing  
(Printed Name)

President, Orion Construction President, Balboa Construction  
(Title of Officer)

(Impress Corporate Seal Here)

- (3) Incorporated under the laws of the State of California
- (4) Place of Business (Street & Number): 2185 La Mirada Drive

(5) City and State: Vista, CA Zip Code: 92081

(6) Telephone No. 760-597-9660 Facsimile No. 760-597-9661

(7) Email Address: Richard.dowsing@orionconstruction.com

**THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:**

In accordance with the "Request for Proposal", the proposer holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION A

LICENSE NO. 788132 EXPIRES 11/30/18

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000015426

This license classification must also be shown on the front of the proposal envelope. Failure to show license classification on the proposal envelope may cause return of the proposal unopened.

TAX IDENTIFICATION NUMBER (TIN): 33-0339762

E-Mail Address: Richard.dowsing@orionconstruction.com

**THIS PROPOSAL MUST BE NOTARIZED BELOW:**

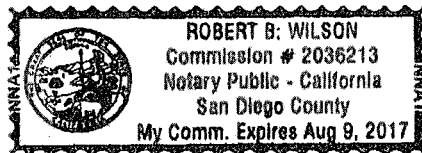
I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature *Richard Dowsing* Title: President, Orion- President, Balboa

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 9th DAY OF June, 2017.

Notary Public in and for the County of: San Diego, State of: CA  
*Robert B. Wilson*

(NOTARIAL SEAL)





**PERFORMANCE BOND AND LABOR AND MATERIAL MEN'S BOND**

**FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:**

Orjon Construction/Balboa Construction JV, a corporation, as principal, and Western Surety Company, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of Five Million One Hundred Fifty Nine Thousand One Hundred Thirty Dollars and Zero Cents (\$5,159,130.00) for the faithful performance of the annexed contract, and in the sum of Five Million One Hundred Fifty Nine Thousand One Hundred Thirty Dollars and Zero Cents (\$5,159,130.00) for the benefit of laborers and materialmen designated below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract **16 Inch and Larger CI Water Main and Sewer Replacement Group A**, Bid Number **K-17-1556-MAC-3**, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2, Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND (Cont.)**

The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated July 13, 2017

Approved as to Form

Orion Construction/Balboa Construction JV  
Principal



Richard Dowsing, President / Fia Dowsing, President  
Printed Name of Person Signing for Principal

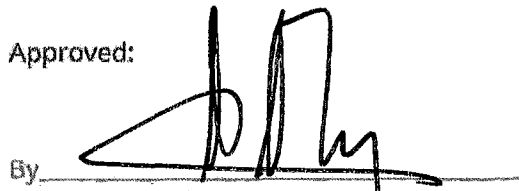
Mara W. Elliott, City Attorney

  
Deputy City Attorney

Western Surety Company  
Surety

By   
Maria Guise, Attorney-in-fact

Approved:

  
By Albert P. Rechany, Deputy Director  
Public Works Department

1455 Frazee Road, Suite 300  
Local Address of Surety

San Diego, CA 92108  
Local Address (City, State) of Surety

(619) 682-3507  
Local Telephone No. of Surety

Premium \$ 39,205.00  
Premium is for contract term and subject to adjustment based on final contract price.

Bond No. 30018617

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**CIVIL CODE § 1189**

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

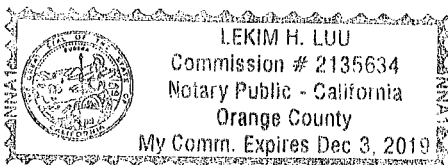
State of California )  
County of Orange )

On JUL 13 2017 before me, LeKim H. Luu, Notary Public  
*Date Here Insert Name and Title of the Officer*  
personally appeared Maria Guise  
*Name(s) of Signer(s)*

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

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

WITNESS my hand and official seal.



Signature [Handwritten Signature]  
*Signature of Notary Public*

*Place Notary Seal Above*

**OPTIONAL**

*Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.*

**Description of Attached Document**

Title or Type of Document: \_\_\_\_\_ Document Date: \_\_\_\_\_  
Number of Pages: \_\_\_\_\_ Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Michael D Parizino, Rhonda C Abel, James A Schaller, Jeri Apodaca, Maria Guise, Rachelle Rheault, Kim Luu, Individually**

of Newport Beach, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 7th day of January, 2016.



WESTERN SURETY COMPANY

Paul T. Bruffat  
Paul T. Bruffat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 7th day of January, 2016, before me personally came Paul T. Bruffat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



J. Mohr

J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 13th day of July, 2017.



WESTERN SURETY COMPANY

L. Nelson  
L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY PROPOSER AND SUBMITTED WITH PROPOSAL UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106**

State of California

County of

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

## CONTRACTOR CERTIFICATION

---

### DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

This company has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

## CONTRACTOR CERTIFICATION

---

### AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that:

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.



## CONTRACTOR CERTIFICATION

---

### CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than \$50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

**CONTRACTOR CERTIFICATION**

---

**Equal Benefits Ordinance Certification**

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

**AFFIDAVIT OF DISPOSAL**

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

**WHEREAS**, on the \_\_\_\_\_ DAY OF \_\_\_\_\_, 2\_\_\_\_\_ the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

\_\_\_\_\_  
(Name of Task)

as particularly described in said contract and identified as Bid No. **K-17-1556-MACC-3**; SAP No. (WBS/IO/CC) **B-15134, B-17059**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

\_\_\_\_\_  
\_\_\_\_\_

**NOW, THEREFORE**, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

\_\_\_\_\_  
\_\_\_\_\_

and that they have been disposed of according to all applicable laws and regulations.

Dated this \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_.

By: \_\_\_\_\_  
Contractor

**ATTEST:**  
State of \_\_\_\_\_ County of \_\_\_\_\_

On this \_\_\_\_\_ DAY OF \_\_\_\_\_, 2\_\_\_\_\_, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared \_\_\_\_\_ known to me to be the \_\_\_\_\_ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

**CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS**

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

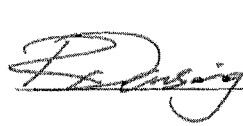
CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
  
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Orion Construction Corporation / Balboa Construction, Inc. J.V.

Certified By: Richard Dowsing / Fia Dowsing Title: President, Orion / President, Balboa

Name  
  
 Signature

Date: June 9, 2017

**USE ADDITIONAL FORMS AS NECESSARY**

**ATTACHMENT J**  
**MACC TASK ORDER AGREEMENT**

## MACC TASK ORDER AGREEMENT

This Design-Build agreement [Contract] is made and entered into this \_\_\_\_ day of \_\_\_\_, 20\_\_ , by and between The City of San Diego [City], a municipal corporation, and **Orion Construction/Balboa Construction JV** [Design-Builder], for the purpose of designing and constructing the **16 INCH AND LARGER CI WATER MAIN AND SEWER REPLACEMENT GROUP A** (Project) in the amount of **Five Million One Hundred Fifty Nine Thousand One Hundred Thirty Dollars and Zero Cents (\$5,159,130.00)**. The City and Design-Builder are referred to herein as the "Parties".

### RECITALS

- A. The City desires to construct the Project located in the City of San Diego, California.
- B. The City desires to contract with a single entity for design and construction of the Project, as set forth in this Agreement.
- C. The City has issued Request for Proposal (RFP) number **K-17-1556-MAC-3** for **16 INCH AND LARGER CI WATER MAIN AND SEWER REPLACEMENT GROUP A**, pursuant to which the City solicited Proposals from design-build teams to design, rehabilitate, and build the Project.
- D. In accordance with City's RFP, Design-Builder submitted a Proposal for the Project and is prepared to enter into this Agreement.
- E. The City has selected the Design-Builder to perform, either directly or pursuant to Subcontracts, hereinafter defined, the design, engineering, and construction services set forth in this Agreement and the Contract Documents, hereinafter defined.
- F. The Design-Builder is ready, willing, and able to perform the services required in accordance with the terms and conditions of this Agreement.
- G. Execution of this Agreement by the Design-Builder is a representation that the Design-Builder has visited the Site, become familiar with the local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

In consideration of the above recitals and the mutual covenants and conditions set forth herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby set forth their mutual covenants and understandings as follows.

### AGREEMENT

- A. Recitals and Attachments. The above referenced recitals are true and correct and are incorporated into this Agreement by this reference. All attachments referenced in this Agreement section are incorporated into the Contract by this reference.
- B. Contract Performance. The Design-Builder shall design and construct the Project in a good and workmanlike manner to the satisfaction of the City, lien free and in compliance with the Contract Documents and within the time specified, in return for timely payment by the City in accordance with the Contract.
- C. Attachments. All attachments e.g., Reference Standards in the RFP, Supplementary Special Provisions (SSP), the attached Faithful Performance and Payment Bonds, Agreement and

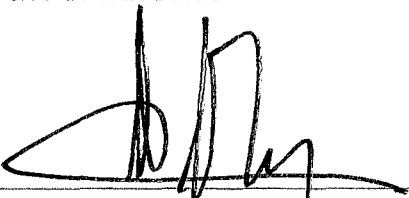
Supplemental Agreements, and the attached Proposal included in the Proposal documents by the Contractor are incorporated into the Contract by this reference.

- D. Contract Documents. This Contract incorporates the 2015 Edition of the Standard Specifications for Public Works Construction [The GREENBOOK], including amendments set forth in the 2015 edition of the San Diego Specifications for Public Works Construction [The WHITEBOOK]. The Contract Documents shall include the items mentioned in section 2-5.2 of The WHITEBOOK and shall follow that order of precedence.

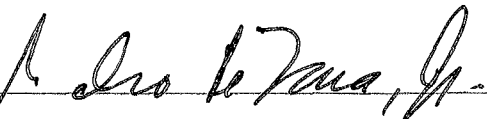
**IN WITNESS WHEREOF**, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code **522.3102** authorizing such execution.

**THE CITY OF SAN DIEGO**

**APPROVED AS TO FORM**

By 

Mara W. Elliott, City Attorney

By 

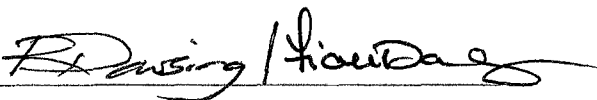
Print Name: Albert P. Rechany  
Deputy Director  
Public Works Department

Print Name: Pedro De Lara, Jr.  
Deputy City Attorney

Date: 10/6/17

Date: 10/12/17

**CONTRACTOR**

By 

Print Name: Richard Dowsing / Fia Dowsing

Title: President - Orion / President - Balboa

Date: 07/14/2017

Orion: B1992002970  
City of San Diego License No.: Balboa: B1998008128

State Contractor's License No.: 788132

# City of San Diego

CITY CONTACT: Juan Espindola, Contract Specialist, Email: JEEspindola@sandiego.gov  
Phone No. (619) 533-4491, Fax No. (619) 533-3633

## ADDENDUM "4"

## PROPOSAL DOCUMENTS

### FOR MACC TASK NUMBER: 07



### 16 INCH AND LARGER CI WATER MAIN AND SEWER REPLACEMENT GROUP A

RFQ NO.:	<u>1293</u>
RFP NO.:	<u>K-17-1556-MAC-3</u>
SAP NO. (WBS/IO/CC):	<u>B-15134, B-17059</u>
CLIENT DEPARTMENT:	<u>2000</u>
COUNCIL DISTRICT:	<u>1, 2, 3, 4, 6, 7</u>
PROJECT TYPE:	<u>KB, JA</u>

#### PROPOSAL DUE:

**12:00 NOON  
JUNE 14, 2017  
CITY OF SAN DIEGO  
PUBLIC WORKS CONTRACTS  
1010 SECOND AVENUE, 14<sup>th</sup> FLOOR, MS 614C  
SAN DIEGO, CA 92101**



**A. CHANGES TO CONTRACT DOCUMENTS**

The following changes to the RFP are hereby made effective as though originally issued with the RFP. The Design-Builders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

**B. BIDDER'S QUESTIONS**

**Questions pertaining to Scope or Specifications**

- Q1. Will a special permit be required for working on the Del Mar Fairground property? The property is owned by the State of California and not the City of San Diego.
- A1. Project will not replace the pipe in Del Mar Fairground, please see the revised pre-design map. See "the latest pre-design map" at this filecloud link: <https://filecloud.sandiego.gov/url/neij0exe34d4>
- Q2. Will a coastal permit be required for working on Map No.1
- A2. If coastal permit is required it will be procured by the City, construction shall not start at this location until the permit is secured.
- Q3. The preliminary engineering report for Map No.1 calls for the contractor to coordinate with the City of Del Mar and the Santa Fe Irrigation District. Will the contractor be connecting to their water mains? Please clarify the statement in this report.
- A3. Coordination with City of Del Mar is required since construction will be near their limits and they need to be aware of the schedule and work in advance. Traffic permit is required from City of Del Mar; the payment for traffic permit shall be included in the contract price. Coordination with Santa Fe Irrigation District and providing them with a courtesy notice is needed since their district boundary extends north from Via De La Valle.

- Q4. Map No.1 shows the contractor connecting to an existing 20" steel line. There is a vault close to the connection point, will the contractor connect in front of the vault and leave the vault in place or will the contractor remove the vault and connect after?
- A4. Available records don't show any vault along Via De La Valle near the existing 20" steel pipe, if necessary, pothole can be done during design to confirm. Scope of work should include replacement of the City owned CI main from the end of the steel pipe to the north of the meter vault on the island near the intersection of Jimmy Durante and Via De La Valle as shown on the map.
- Q5. There is Archeo and Paleo monitoring called out for Map's No.1 and 3. Please clarify why this is a requirement for a remove and replace job.
- A5. The project obtained the Notice of Exemption (NOE) based on the scope being replace-in-place or trenchless at these locations and no monitoring is required for Map No. 1. The new proposed water main on Map No. 3 along Garnet may require additional environmental document; Contractor may not start construction work on this location until necessary environmental documents are obtained by the City.
- Q6. Map No.2 predesign map shows replacing the 16" AC water main in Clairemont Mesa Blvd. there is an 8" leg that runs north into a shopping center. How far is the contractor required to remove and replace this lateral? To right of way line or into the full length of the property?
- A6. Replace the 8" water main up to the property line.
- Q7. Will the contractor be required to remove and replace the crosses and valves at Frink Avenue and Diane Avenue for Map No.2 locations?
- A7. For intersection of Clairemont Mesa Blvd and Diane Ave; replace the cross and valves and replace perpendicular water mains in the street intersection up to the street limits of Clairemont Mesa Blvd. Do not replace the cross and valves at intersection of Clairemont Mesa Blvd and Frink Ave since they have already been replaced.

- Q8. Is the contractor required to remove and replace the sewer manholes at Map No.3 or just connect to existing?
- A8. Contractor shall remove and replace the sewer manholes.
- Q9. Why is the sewer being removed and replaced at Map No.3?
- A9. The existing VC pipe is to be removed and replaced with a new PVC.
- Q10. Will the 16" cross at the intersection of Moraga Avenue and Monair Drive be removed and replaced?
- A10. No, the cross at the intersection of Moraga Ave. and Monair Drive has been already replaced.
- Q11. Map No.3 has the contractor removing and replacing 16" CI with PVC from Santa Fe Street to Mission By Drive. There are three 8" feeds coming off this water main, how far is the contractor required to replace the 8" feeds? To back of curb?
- A11. Replace the 8" water main up to the property line.
- Q12. Map No.3 preliminary engineering report calls for an MTS Encroachment permit, please provide an allowance for obtaining this permit.
- A12. If MTS Encroachment permit is required it will be covered under the contingencies.
- Q13. The 16" replacement at Map No.3 ends with connecting to a 12" cast iron line at Santa Fe Street. Will the contractor connect at the tee or remove and replace 12" cast iron to the pressure reducing station?
- A13. The 12" CI pipe has been abandoned and re-aligned by Mid-Coast Corridor Transit Project (see attachment A), the contractor shall replace the 16" CI on Garnet/Balboa Ave with a straight in connection to the new pipe. See Attachment A, page 13 of this Addendum.

- Q14. Map No.4 shows replacement of the 16" water outside of the right of way behind some multi-family property. Is there a stopping point behind the property? Does the City want the contractor to remove and replace all the way to Kearny Villa road? Please clarify.
- A14. Replace the existing 16" CI and AC water mains along Hurlbut St from Afton Rd to Kearny Villa Rd. See "the latest pre-design map" at this filecloud link: <https://filecloud.sandiego.gov/url/neji0exe34d4>
- Q15. At the intersection of Afton Road and Hurlbut Street will the contractor be required to replace the cross and valves?
- A15. No, the cross and valve at this intersection have been already replaced.
- Q16. The existing water main in Hurlbut Street is 16" water however the predesign map shows to replace with 12" water for Map No.4. Is this correct?
- A16. Yes, per the modeling study the existing 16" shall be replaced with a new 12".
- Q17. Will the contractor be required to replace the start and finish sewer manholes at Map No.4 or just connect?
- A17. Yes, remove and replace the manholes.
- Q18. Predesign Map Sheet 2 of 2 calls out in Note No.1 to, "Abandon the existing 12" CP pipe from manhole 55 to manhole 54 up to the end plug. Abandon MH 55. Construct a new 4" sewer lateral from the bathroom and connect to manhole 54". We cannot find a map that correlates to this map. Please provide a drawing and clarification for this note.
- A18. Note #1 has been removed, See "the latest pre-design map" at this filecloud link: <https://filecloud.sandiego.gov/url/neji0exe34d4>
- Q19. Map No.5 replaces a 16" water main with a new 12" water main, is this correct?
- A19. Yes if the question is referring to Camino De La Siesta. Replace the existing 16" with a new 12" water main per the modeling study.

- Q20. Map No.6 google earth drawing shows replacing watermain from 19<sup>th</sup> street to 21<sup>nd</sup> street. The pre-design map shows replacing water main from 19<sup>th</sup> street to 21<sup>st</sup> street. Which drawing is correct?
- A20. Replace the water main from 19<sup>th</sup> Street to 22<sup>nd</sup> Street.
- Q21. Will the contractor be required to replace the tee and valves at 19<sup>th</sup> and also the cross and valves at 21<sup>st</sup> and 22<sup>nd</sup> for Map No.6?
- A21. For B St and 22<sup>nd</sup> St make the connection only to the valve, the cross and valves are already replaced. For B St and 19<sup>th</sup> St, do not replace the tee and valves, they are included in another CIP project.
- Q22. Will the contractor be required to replace the cross at Map No.7 or just pipe?
- A22. Replace both cross and pipe.
- Q23. Page 24 of the RFP under City Services states the City will provide construction survey. On the last three MACC projects the survey was conducted by the contractor. Will the City provide survey for this project?
- A23. Construction staking will be done by the City.
- Q24. Page 25 of the RFP under Community Input calls for 2 community meetings for 2-4 hours each. There are seven different maps with seven different communities which should require 14 communities. Please clarify.
- A24. Yes, minimum of 14 community meetings is required.
- Q25. Page 47 of the RFP paragraph 30.4 states "the Design Builder shall coordinate all activity and Right of Entry permit with the proper school representative". Please clarify what a Right of Entry permit is for schools, how much does this permit cost and how is it obtained?
- A25. These permits are mainly for coordination and not associated with any fees. They refer to written authorization/permit to do work or enter the private properties.

- Q26. Page 80 section 6-1.1 states "the 90 day plant establishment period is included in the stipulated contract time". What portions of work have plant establishment in this RFP?
- A26. This is a typical note if PEP is required. None of the location within this project require a PEP unless contractor removes any plants during construction.
- Q27. Map 1, Jimmy Durante Blvd. Map shows the new pipe to terminate inside the Del Mar Fairgrounds. What are we connecting to?
- A27. Replace only the City owned CI Main from the end of the Steel pipe to north of the exiting vault on the island at the intersection of Jimmy Durante and Via De La Valle. See "latest pre-design map", at this filecloud link: <https://filecloud.sandiego.gov/url/nejj0exe34d4>
- Q28. Map 3, Mt. Laurence Dr. Gate Book records show the existing 16" CI pipe connects to an existing 12" valve on the existing 30" RCSC pipe. Does the City want this valve replaced? Does the City want the valve upsized to 16"?
- A28. The existing 16" CI water main on south of Balboa Ave through a subdivision to Mt. Laurence Dr. shall be abandoned. The exiting Tee at Mt. Laurence Dr. shall be cut & plugged. See "latest pre-design map", at this filecloud link: <https://filecloud.sandiego.gov/url/nejj0exe34d4>
- Q29. Map 4, Hurlbut Street. Is there a defined stopping point for the new 12" water replacement on the West end where the pipe leaves the street?
- A29. Please see the response to Q14.
- Q30. Predesign Map Sheet 2 of 2. Which Map does Note 1 refer to?
- A30. Please see the response to Q18.
- Q31. Is it anticipated that any of the 7 locations will require night work? If so which locations?
- A31. Locations 1, 3 and 5 could potentially require night work therefore night work cost should be considered.

- Q32. It was mentioned at the Pre-Proposal meeting that the contractors are encouraged to use the List of SLBE-ELBE contractors on the City's web site. If a contractor is on that list during the submittal period are we to consider them eligible for SLBE-ELBE participation?
- A32. Refer to the 2015 Whitebook, Part 10, Equal Opportunity Contracting Program (EOCP), Part B – SLBE/ELBE Subcontracting Requirements, Section 3 – Subcontractor Participation for detail on satisfying SLBE-ELBE subcontracting requirements. The list of available certified SLBE and ELBE firms by vendor name or by NAICS code can be found on the City's website:  
<https://www.sandiego.gov/eoc/programs/slbe>.
- Q33. I have read the Whitebook definition of a commercially useful function for SLBE-ELBE participation. That definition makes note that a SLBE-ELBE may subcontract out portions of their work. At the pre-proposal meeting it was stated that credit for work by one particular SLBE was reduced because the SLBE had subcontracted a portion of the work.  
If an SLBE-ELBE subcontractor subcontracts any portion of their work or uses the services of non-SLBE's in the performance of their work does that work count toward the SLBE-ELBE goal?
- A33. An SLBE or ELBE may subcontract out portions of their work. Participation credit awarded to an SLBE-ELBE firm that elects to subcontract out portions of their work will be commensurate with the work it is actually performing and the SLBE-ELBE credit claimed for its performance of work, and other relevant factors. Refer to the 2015 Whitebook, Part 10 - Equal Opportunity Contracting Program (EOCP), Part B – SLBE/ELBE Subcontracting Requirements, Item 2.1.2 and Section 3 – Subcontractor Participation. At this time, the following firms will only receive SLBE/ELBE participation credit for the scope of work listed: **Red Tail Monitoring & Research, Inc.** – Native American Monitoring ONLY; **Loveless & Linton Consulting** – Native American Monitoring & Archeological Monitoring ONLY; **Laguna Mountain Environmental** – Native American Monitoring & Archeological Monitoring ONLY.
- Q34. While conducting the field assessment of Map No.1 we encountered a large vault that we believe contains mechanical piping that is in line with the 18" water main feeding the Del Mar Fair Grounds. This vault is not discussed in the RFP nor is it shown on the pre-design map or Gate Book Drawings. It is located in the island of Via De La Valle and Jimmy

Durante. We have attached pictures and copies of the Gate Book Drawings for your use.

- a. Is this vault and mechanical piping part of the scope of work for Map No.1
- b. If this is part of the scope of work, will the mechanical in this vault be replaced?
- c. Will this vault be removed and replaced as part of the scope of work?
- d. If this vault and mechanical piping are part of this scope what purpose does it serve to the City?

- A34. a. No.  
b. No.  
c. No.  
d. N/A

Q35. The 18" Cast iron pipe in Map No.1 flows through Jimmy Durante Road and onto the Del Mar Fair Ground property. On the property, there is a vault that the 18" flows through. Will the contractor be required to replace this vault and the mechanical piping inside or just connect outside the vault?

A35. No.

Q36. During our field investigation of Map No.1 we were trying to find where the connection to the 20" in Via De La Valle is? Can the City provide a better map or schematic that shows this connection point? See attached Field Pictures. See Gate Book Drawings which shows possible vault in this area.

A36. City does not have any other schematic for this location other than the provided as-built.

Q37. Does this project have an OCI street index for the seven maps? The preliminary design report references Appendix B for the OCI index but shows the "Fire Hydrant Meter Program" paperwork.

A37. OCI index map is provided as part of the bridging document under "planning documents/constraints maps" and can be accessed via this link:  
<https://filecloud.sandiego.gov/url/nejj0exe34d4>



- Q38. Does the vault and SCADA control system need to be replaced at Map 1 or can the pipe be replaced with the vault and SCADA left in place?
- A38. Replace the CI main from the end of the steel pipe to the north of the meter vault on the island near intersection of Jimmy Durante and Via De La Valle. See “the latest pre-design map” at this filecloud link: <https://filecloud.sandiego.gov/url/nejj0exe34d4>.
- Q39. Page 149 Section 5 “Project Team” in the solicitation documents requests qualifications for ‘5.1.2 Structural.’ What is this in relation to for this specific task order?
- A39. Since the project is a design-build and final scope is not clear yet, this has been included in case project requires special design.
- Q40. Can the new water mains be constructed using a parallel alignment or is it required the water mains be replaced in the same trench?
- A40. The advertised scope of the work for this project is to replace in the same trench only.

## C. CHANGES TO THE REQUEST FOR PROPOSAL

1. To Filecloud, at this web link, <https://filecloud.sandiego.gov/url/nejj0exe34d4>, Pre Design Map folder, “latest pre design map” has been updated.
2. To Request For Proposal, page 3, Section 2, Summary of Work, **DELETE** in its entirety and **SUBSTITUTE** with the following:
  2. **SUMMARY OF WORK:** This is the City solicitation process to acquire Design-Build services for a Design-Build project to install, replace in-place and abandonment of water and sewer mains at 7 locations throughout the City (see Location Maps). Approximately 613 linear feet (LF) of new 12” polyvinyl chloride (PVC) pipe will be installed, approximately 5966 linear feet (LF) of existing 8-, 10-, 12-, 16-, and 18-inch cast iron (CI) and asbestos cement (AC) water pipes will be replaced with new PVC pipe within their existing alignment at the same or shallower depths and about 677 LF of existing water main will be abandoned (by slurry fill). The project also includes the replacement (in-place) of approximately 1308 LF of existing 6, 8, 12, and 15-inch concrete pipe (CP) and vitrified clay (VC)

sewer pipe at the same or shallower depth with new PVC pipe. This project may also include the following improvements: Installation of curb ramps, fire hydrants, valves, air valves, blow offs, water boxes, laterals, manholes, cleanouts, street resurfacing, etc. The project spans multiple neighborhoods, council districts, and community planning areas. The project shall avoid sensitive resources and requires outreaching to the various communities and acquiring all permits.

3. To Request For Proposal, page 3, Section 4, "Proposal Due Date and Time are:", **DELETE** in its entirety and **SUBSTITUTE** with the following:

4. **PROPOSAL DUE DATE AND TIME ARE: JUNE 14, 2017 at 12:00 NOON.**

4. To Request For Proposal, page 5, Section 12, Selection and Award Schedule, Subsection 12.1., Items 12.1.2. Proposal Due Date, 12.1.3. Selection and Notification, 12.1.4. Limited Notice to Proceed, **DELETE** in their entirety and **SUBSTITUTE** with the following;

<b>12.1.2.</b>	Proposal Due Date	June 14, 2017
<b>12.1.3.</b>	Selection and Notification	July 12, 2017
<b>12.1.4.</b>	Limited Notice to Proceed	August 10, 2017

5. To Attachment A, Project Description, Scope of Work, and Technical Specifications (Bridging Documents), page 21, Section 1, Project Description, Water Improvements (B-15134), Sub-paragraphs Map-1 (Via De La Valle), Map-3 (Garnet Ave), and Map 4 (Hurlbut St), **DELETE** in their entirety and **SUBSTITUTE** with the following:

**Map-1 (Via De La Valle):** This location is within Torrey Pines Community, all the work shall occur near the intersection of Via De La Valle and Jimmy Durante Blvd (near City of Del Mar), and shall include replacing approximately 111 LF (0.02 miles) of CI water main from the end of the 20" steel pipe to the north of the meter vault on the island near intersection of Jimmy Durante and Via De La Valle. The existing water mains are within Rancho Santa Fe 284 Pressure Zone.

**Map-3 (Garnet Ave):** This location is within Pacific Beach & Clairemont Mesa community, the project includes replacing approximately 1619.19 LF (0.03 miles) of water mains in place at two locations; Garnet Ave between Mission Bay Dr & Vicinity of Santa Fe St and on Moraga Ave between Monair Dr and Garnet Ave, abandoning approximately 410LF (0.077 miles) of existing water main on south of Balboa Ave through a subdivision to Mt. Laurence Dr and installing approximately 613LF (0.11 miles) of new water main on Balboa Ave between Moraga Ave and Morena Blvd (please see the new pre-design map). The new proposed segment along Garnet may require additional environmental document; Contractor may not start construction at this location until necessary environmental documents are obtained by the City.

**Map-4 (Hurlbut St):** The proposed work is within Serra Mesa community and will be along Hurlbut St between Afton Rd and Kearny Villa Rd. Project will replace approximately 1665 LF (0.31 miles) of existing 16-in AC water. The existing water mains are within Northwest Mesa 559 Pressure Zone.

James Nagelvoort, Director  
Public Works Department

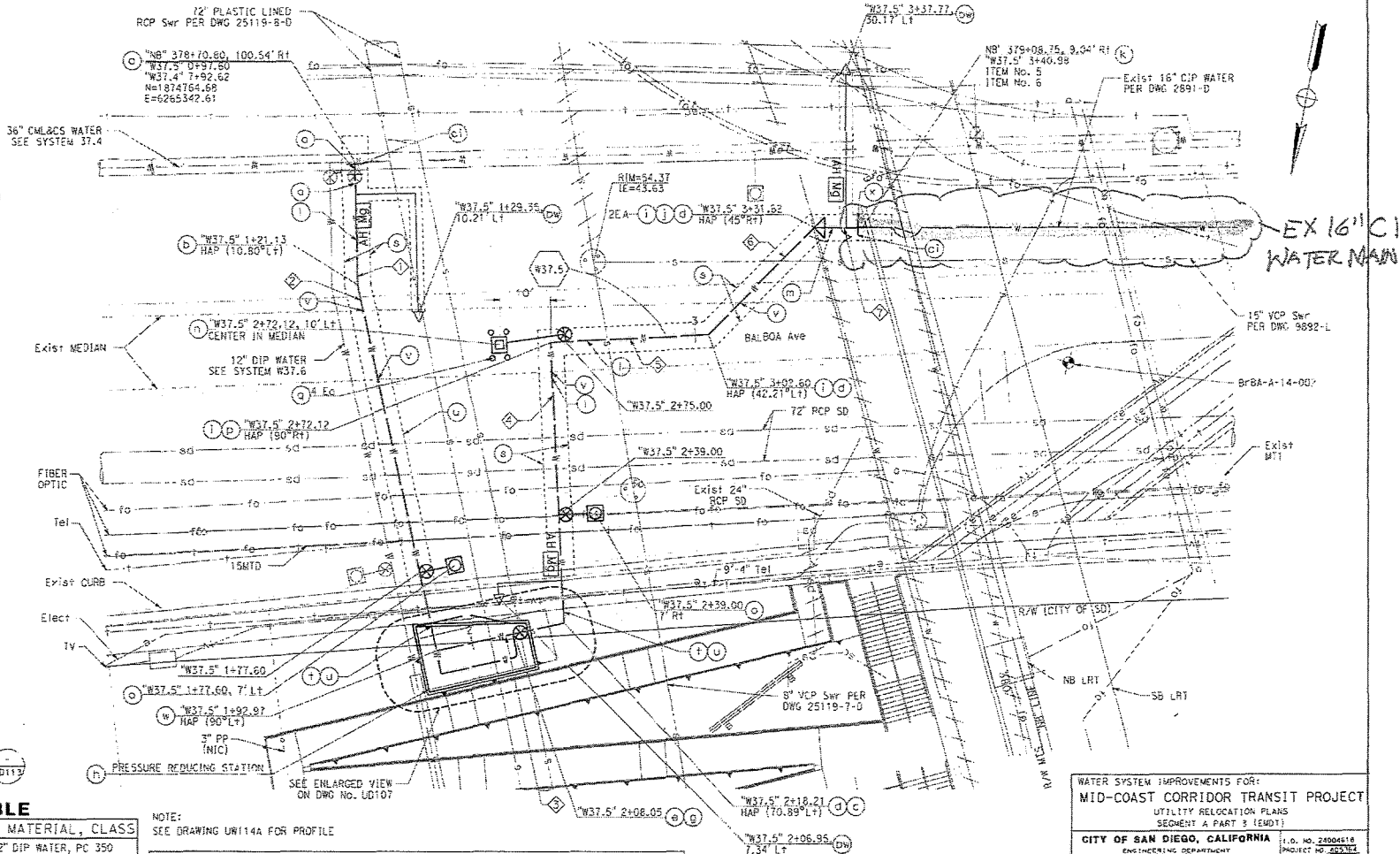
*May 26, 2017*  
San Diego, California

JN/JB/egz

# ATTACHMENT A

## CONSTRUCTION NOTES:

- (A) REMOVE Temp 12" PLUG AND CONNECT TO 12" GATE VALVE
- (B) 2" 11.25° DI BEND
- (C) 12" 22.5° DI BEND
- (D) 12" 45° DI BEND
- (E) 12" GATE VALVE PER CITY OF SAN DIEGO STD DRAWING SDW-152 AND SDW-153
- (F) 12"x12" DI TEE
- (G) PRESSURE REDUCING STATION
- (H) THRUST BLOCK/ANCHOR BLOCK PER CITY OF SAN DIEGO STD DRAWING SDW-151
- (I) 16"x12" DI ECCENTRIC REDUCER
- (J) CONNECT TO EXIST 16" CIP WATER
- (K) RESTRAINED 12" DIP WATER, PC 350, PER CITY OF SAN DIEGO STD DRAWING SDW-110
- (L) RESTRAINED 16" DIP WATER, PC 250, PER CITY OF SAN DIEGO STD DRAWING SDW-110
- (M) 2" AUTOMATIC COMBINATION AIR RELEASE AND AIR/VACUUM VALVE INSTALLATIONS PER SAN DIEGO STD DRAWING SDW-159
- (N) 4" BLOW OFF VALVE TYPE B PER CITY OF SAN DIEGO STD DRAWING SDW-145
- (O) 12" 90° DI BEND
- (P) PROTECTION POST TYPE A PER CITY OF SAN DIEGO STD DRAWING WM-04
- (Q) TREE MODIFICATION
- (R) TRENCH RESURFACING PER CITY OF SAN DIEGO STD DRAWING SDG-107 AND SDG-156
- (S) TRENCH SIDEWALK REPLACEMENT PER CITY OF SAN DIEGO STD DRAWING SDG-155 AND SDG-156
- (T) TRENCH CURB AND GUTTER REPLACEMENT PER CITY OF SAN DIEGO STD DRAWING SDG-151 AND SDG-156
- (U) TRENCH CURB AND GUTTER REPLACEMENT PER CITY OF SAN DIEGO STD DRAWING SDG-154 AND SDG-156
- (V) 12"x8" DI TEE
- (W) 2 Eg - 16" DI NJ x FLANGE ADAPTER
- (X) DIELECTRICALLY INSULATED FLANGE JOINT
- (Y) CATHODIC PROTECTION TEST STATION AND ANODE



## WATER DATA TABLE

No.	BEARING/Delta	RADIUS	LENGTH	DIA, MATERIAL, CLASS
1	N13°02'41"W	-	23.53'	12" DIP WATER, PC 350
2	N23°50'39"W	-	71.84'	12" DIP WATER, PC 350
3	S66°09'21"W	-	25.24'	12" DIP WATER, PC 350
4	S14°20'12"E	-	53.92'	12" DIP WATER, PC 350
5	S75°39'48"W	-	30.48'	12" DIP WATER, PC 350
6	S33°26'58"W	-	29.02'	12" DIP WATER, PC 350
7	S78°26'58"W	-	9.98'	16" DIP WATER, PC 250

NOTE: SEE DRAWING UR1144 FOR PROFILE

## STREET EXCAVATION TABLE

STREET NAME	STREET CLASSIFICATION (ARTERIAL, MAJOR COLLECTOR, RESIDENTIAL)	UTILITY TYPE (WET OR DRY)	LATERAL OR MAIN	STREET SERVICE A/C (F/S)	INFLUENCE AREA WIDTH (ft) PER MD 62.120B	TRENCH WIDTH (ft)	TRENCH LENGTH (ft)
BALBOA AVE	MAJOR	WET	MAIN	21	5.9	5	244
BALBOA AVE	MAJOR	WET	CP LAT	21	5.9	2.5	34

WATER SYSTEM IMPROVEMENTS FOR:  
**MID-COAST CORRIDOR TRANSIT PROJECT**  
 UTILITY RELOCATION PLANS  
 SEGMENT A PART 3 (EMDT)

**CITY OF SAN DIEGO, CALIFORNIA**  
 ENGINEERING DEPARTMENT  
 SHEET 27 OF 58 SHEETS

PROJECT NO. 24004516  
 PROJECT ID: 423742

DATE STARTED: 09/15/15  
 DATE COMPLETED: 09/15/15

CONTRACT NO. 1874-6263  
 CONTRACT NO. 234-1703  
 CONTRACT NO. 38575-21-0

<p>Buildings   Architecture   Streets   Engineering          955 W BEECH STREET, SUITE 499          SAN DIEGO, CALIFORNIA 92101          P.619.544.1211 www.base-ca.com</p>		DESIGNED BY: WIRTH, D. DATE: 09/15	<p>401 B STREET, SUITE 800          SAN DIEGO, CA 92101-4231          (619) 689-1800</p>		MID-COAST CORRIDOR TRANSIT PROJECT	SCALE: HORIZ: 1"=10' SANDAG CONTRACT NO. 5001904 DRAWING NO. SHEET NO. UR114 22
		CHECKED BY: FRIELSON, S. DATE: 09/15 SANDAG Gostelum, G. 09/15				

# City of San Diego

CITY CONTACT: Juan Espindola, Contract Specialist, Email: JEEspindola@sandiego.gov  
Phone No. (619) 533-4491, Fax No. (619) 533-3633

## ADDENDUM "3" FOR PROPOSAL DOCUMENTS MACC TASK NUMBER: 07



## 16 INCH AND LARGER CI WATER MAIN AND SEWER REPLACEMENT GROUP A

RFQ NO.: 1293  
RFP NO.: K-17-1556-MAC-3  
SAP NO. (WBS/IO/CC): B-15134, B-17059  
CLIENT DEPARTMENT: 2000  
COUNCIL DISTRICT: 1, 2, 3, 4, 6, 7  
PROJECT TYPE: KB, JA

---

### PROPOSAL DUE:

**12:00 NOON**

**MAY 30, 2017**

**CITY OF SAN DIEGO**

**PUBLIC WORKS CONTRACTS**

**1010 SECOND AVENUE, 14<sup>th</sup> FLOOR, MS 614C**

**SAN DIEGO, CA 92101**

**A. CHANGES TO CONTRACT DOCUMENTS**

The following changes to the RFP are hereby made effective as though originally issued with the RFP. The Design-Builders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

James Nagelvoort, Director  
Public Works Department

Dated: *May 4, 2017*  
San Diego, California

JN/AJ/lji

# City of San Diego

CITY CONTACT: Juan Espindola, Contract Specialist, Email: JEEspindola@sandiego.gov  
Phone No. (619) 533-4491, Fax No. (619) 533-3633

## ADDENDUM "2"

FOR

## PROPOSAL DOCUMENTS

MACC TASK NUMBER: 07

## 16 INCH AND LARGER CI WATER MAIN AND SEWER REPLACEMENT GROUP A



RFQ NO.: 1293  
RFP NO.: K-17-1556-MAC-3  
SAP NO. (WBS/IO/CC): B-15134, B-17059  
CLIENT DEPARTMENT: 2000  
COUNCIL DISTRICT: 1, 2, 3, 4, 6, 7  
PROJECT TYPE: KB, JA

---

### PROPOSAL DUE:

**12:00 NOON**

**MAY 10, 2017**

**CITY OF SAN DIEGO**

**PUBLIC WORKS CONTRACTS**

**1010 SECOND AVENUE, 14<sup>th</sup> FLOOR, MS 614C**

**SAN DIEGO, CA 92101**

## A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the RFP are hereby made effective as though originally issued with the RFP. The Design-Builders are reminded that all previous requirements to this solicitation remain in full force and effect.

## B. CHANGES TO THE REQUEST FOR PROPOSALS

1. To Attachment A, Project Description, Scope of Work, and Technical Specifications (Bridging Documents), Section 2, Scope of Work, Item 2.7, Sub-item 2.7.1, page 23, **DELETE** in its entirety and **SUBSTITUTE** with the following:

2.7.1. Conducting investigations and as-built research.

2. To Attachment A, Project Description, Scope of Work, and Technical Specifications (Bridging Documents), Section 13, Surveying, page 28, **DELETE** in its entirety and **SUBSTITUTE** with the following:

### 13. Surveying:

**13.1.** The Design-Builder shall perform all physical and aerial surveys as needed to complete design and prepare construction plans and as-built drawings in accordance with the City standards. See Section 2-9.2 Survey Services in Attachment E, Supplementary Special Provisions, for procurement of survey services.

3. To Attachment A, Project Description, Scope of Work, and Technical Specifications (Bridging Documents), Section 41, Bridging Documents, pages 60 through 61, **DELETE** in their entirety and **SUBSTITUTE** with the following:

### 41. Bridging Documents:

1. The following is a list of the Bridging Documents for this project available at:  
<https://filecloud.sandiego.gov/url/nejj0exe34d4>
2. General/Location Map
3. Planning Documents/Preliminary Engineering Report
4. As-Builts/AT&T



5. As-Builts/Public
  6. As-Builts/SDG&E
  7. As-Builts/Cox Cable
  8. Planning Documents/Constraints maps
  9. Planning Documents/ADA report
  10. Planning Documents/ADT count
  11. IMCAT Screenshot
4. To Attachment D, Phased Funding Provisions, pages 64 through 65, **DELETE** in their entirety and **SUBSTITUTE** with pages 8 through 9 of this Addendum.
5. To Attachment E, Supplementary Special Provisions, Section 2 – Scope and Control of Work, Section 2-9.2, Survey Section, pages 72 through 74, **DELETE** in their entirety and **SUBSTITUTE** with the following:

**2-9.2 Survey Service.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Survey Service shall be exclusively procured by a Registered Civil Engineer or Licensed Architect, and performed by a Licensed Land Surveyor or Registered Civil Engineer authorized to practice land surveying within the State of California. Contractors who are not Registered Civil Engineers or Licensed Architects are not authorized to procure Survey Service.
2. Prior to the start of design, submit a letter to the Engineer identifying the Licensed Land Surveyor or the Registered Civil Engineer authorized to practice land surveying within the State of California that will be performing the design phase survey services for the Project.
3. Prior to the start of construction, submit a letter to the Engineer identifying the Licensed Land Surveyor or the Registered Civil Engineer authorized to practice land surveying within the State of California that will be performing the construction phase survey services for the Project.

4. Surveys shall meet required accuracy of surveying standards adequate for construction through a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California.
5. Survey stakes shall be set and stationed for curbs, headers, water mains, sewers, storm drains, structures, rough grade, and any other structures and appurtenances that are needed for the Project. A corresponding cut or fill to finished grade (or flow line) shall be indicated on a grade sheet.
6. Surveys performed shall list the basis of bearings as tied to Record of Survey 14492 or equivalent, based on the California Coordinate System of 1983, Zone 6, U.S. Survey foot, epoch 1991.35, along with a completed calibration sheet (blank form will be supplied by City Surveys). The vertical datum used shall be NGVD 29 in accordance with the City of San Diego Vertical Bench Book.
7. Construction survey stakes, control points, and other survey related marks shall be preserved for the duration of the Project. If any construction survey stakes are lost or disturbed and need to be replaced, such replacement shall be performed by the Engineer at your expense.

#### **2-9.2.1 Survey Files.**

1. All Computer Aided Drafting (CAD) Work shall be done in accordance with the City of San Diego's Citywide Computer Aided Design and Drafting (CADD) Standards and shall be in City seed files (.job, .txt, .dgn, .alg, .raw, .fwd, .dtm, .pdf, .docx, .xlsx, .tif, and .jpg).
2. All survey files shall be completed in accordance with the City of San Diego's Citywide CADD Standards and shall adhere to the City's Microstation level and attribute structure.

3. The survey file deliverable will be either one Master .dgn file containing all xref's in geospatially referenced (and attached) models or one Master .dgn with all xref's geospatially referenced (and attached) as .dgn files. Resource files may be sent to you if requested.
4. Survey files shall include, but shall not be limited to, the following items:
  - a) Street center line and (record width) right-of-way lines.
  - b) Project geometry (.alg) files (this will be generated for use in InRoads).
  - c) 3D surface model (.dtm, break line and spot elevation) file.
  - d) Spot elevations of the new utility main at each intersection, midblocks, and for any change in grade.
  - e) Monuments.
  - f) Curb lines (top curb and gutter).
  - g) All other appurtenances including but not limited to water valves, meters, vaults, manholes, fire hydrants, utility boxes, cleanouts, and poles.
5. You shall use the survey information to produce red-lines drawings as described in Section 2-5.4 "Red-lines and Record Documents."

### **2-9.2.2 Submittal.**

1. Survey files shall be submitted in accordance with 2-5.3, "Submittals" and 2-5.4, "Red-Lines and Record Documents". You shall provide the Survey Files, proposed Drawings, and/or Red-line Drawings on a CD/DVD to the Engineer and shall post the Survey Files, proposed Drawings, and/or Red-line Drawings to the following website:

<https://filecloud.sandiego.gov/url/fpmkjyrkgqnk>

2. After the documents have been posted to the website, you shall send a confirmation email, which includes the hyperlink to the website, to the Engineer and to SurveyReview@sandiego.gov.
3. All survey Work and submittals which reveal non-compliance with the requirements of the Construction Documents shall be corrected as deemed necessary by the Engineer and the cost of the corrections to your survey submittals shall be at your expense.

### **2-9.2.3 Payment.**

1. The payment for survey services Work shall be included in the lump sum Bid item for "Survey Services (Design)".
6. To Attachment E, Supplementary Special Provisions, Section 302 - Roadway Surfacing, page 91, **DELETE Section 302-4.12.2.1, General**, in its entirety and **ADD** the following:

#### **ADD:**

##### **302-4.12.2.1.1 Slurry Treatment.**

1. When slurry treatment is required by the Contract Documents, notify the Engineer at least 10 Working Days prior to the first application of slurry. The Engineer, upon assessment of street condition and classification, will verify the slurry type to be applied.

2. Application of sequential layers of slurry shall not commence until approved by the Engineer and until the following have been completed:
  - a) Mix design and wet track abrasion testing for the first-step slurry application has been approved by the Engineer. Unless otherwise directed by the Engineer, this testing may require 4 Working Days from field sampling to reporting of test results to the Engineer.
  - b) Corrective actions have been executed in accordance with 302-4.11.1.2, "Reduction in Payment Based on WTAT" such as reductions in payment, non-payment, or removal of material not meeting specifications, as directed by the Engineer.

James Nagelvoort, Director  
Public Works Department

Dated: *April 28, 2017*  
San Diego, California

JN/AJ/lji

## PHASED FUNDING PROVISIONS

### 1. PRE-AWARD

**1.1. Within 10 Working Days after the Bid Opening date, the Apparent Low Bidder must** contact the Project Manager to discuss fund availability for each phase and shall also submit the following:

**1.1.1.** Construction Cost Loaded Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 9-3, "PAYMENT.

**1.2.** Your failure to perform any of the following may result cancelling your award of the Contract:

**1.2.1.** Meeting with the City's Project Manager to discuss the Phased Funding Schedule.

**1.2.2.** Agreeing to a Phased Funding Schedule within 22 Working Days after meeting with the City's Project Manager.

### 2. POST-AWARD

**2.1.** Do not start any construction activities for the next phase until the NTP has been issued by the Engineer. The City will issue separate Notice to Proceed (NTP) documents for each phase.

**2.2.** If requested, the Engineer may issue the NTP for the next phase before the end of the current approved phase.

## PHASED FUNDING SCHEDULE AGREEMENT

**NOTE: THIS IS A SAMPLE PHASED FUNDING SCHEDULE AGREEMENT FORM.**

The particulars left blank in this sample, such as the total number of phases and the amounts assigned to each phase, will be completed with funding specific information from the Pre-Award Schedule and Construction Cost Loaded Schedule submitted to and approved by the City.

**BID NUMBER:** \_\_\_\_\_

**CONTRACT OR TASK TITLE:** \_\_\_\_\_

**CONTRACTOR:** \_\_\_\_\_

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1				\$
2	<u>All Additional phases to be added</u>			
	<u>to this form as necessary.</u>			
Contract Total				\$

Notes:

- 1) WHITEBOOK section 9-3.6, "Phased Funding Compensation" applies.
- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
- 3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

### CITY OF SAN DIEGO

### CONTRACTOR

PRINT NAME: \_\_\_\_\_

**Construction Manager**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_

**Project Manager**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

# City of San Diego

CITY CONTACT: Juan Espindola, Contract Specialist. Email: JEEspindola@sandiego.gov  
Phone No. (619) 533-4491, Fax No. (619) 533-3633

## ADDENDUM "1"

FOR

## PROPOSAL DOCUMENTS

MACC TASK NUMBER: 07

## 16 INCH AND LARGER CI WATER MAIN AND SEWER REPLACEMENT GROUP A



RFQ NO.: 1293  
RFP NO.: K-17-1556-MAC-3  
SAP NO. (WBS/IO/CC): B-15134, B-17059  
CLIENT DEPARTMENT: 2000  
COUNCIL DISTRICT: 1, 2, 3, 4, 6, 7  
PROJECT TYPE: KB, JA

---

### PROPOSAL DUE:

12:00 NOON

MAY 10, 2017

CITY OF SAN DIEGO

PUBLIC WORKS CONTRACTS

1010 SECOND AVENUE, 14<sup>th</sup> FLOOR, MS 614C

SAN DIEGO, CA 92101



**A. CHANGES TO CONTRACT DOCUMENTS**

The following changes to the RFP are hereby made effective as though originally issued with the RFP. The Design-Builders are reminded that all previous requirements to this solicitation remain in full force and effect.

**B. CHANGES TO THE REQUEST FOR PROPOSALS**

1. To Attachment H, Price Forms, pages 155 through 157, **DELETE** in their entirety and **SUBSTITUTE** with pages 3 through 5 of this Addendum.

James Nagelvoort, Director  
Public Works Department

Dated: *April 13, 2017*  
San Diego, California

JN/AJ/lji

**PRICE PROPOSAL FORMS**

The Design-Builder agrees to the design and construction of **16 Inch and Larger CI Water Main and Sewer Replacement Group A**, for the City of San Diego, in accordance with these contract documents for the lump sum price listed below. The Design-Builder guarantees the proposed prices for a period of 120 Days from the date Proposals are due. The duration of the price guarantee may be extended as required by mutual consent.

Item No.	NAICS CODE	Description	Quantity	D*	Unit	Unit Price	Extension
<b>BASE PROPOSAL</b>							
1	524126	Bonds (Payment and Performance)	1		LS	<del>                    </del>	\$
2	541330	Engineering and Design Services	1	D	LS	<del>                    </del>	\$
3	237110	Construction	1		LS	<del>                    </del>	\$
4	237310	Caltrans Encroachment Permit - (EOC Type I)	1		AL	<del>                    </del>	\$5,500.00
5		City Contingency (EOC Type II)	1		AL	<del>                    </del>	\$284,130.00
6	541330	WPCP Development	1	D	LS	<del>                    </del>	\$
7	237990	WPCP Implementation	1		LS	<del>                    </del>	\$
8	541370	Survey Services (Design)	1	D	LS	<del>                    </del>	\$
<b>TOTAL DESIGN-BUILD BASE PROPOSAL (ITEMS NO 1 THROUGH 8 INCLUSIVE):</b>							<b>\$</b>

**\* Design Element (For City Use)**

Total Price For Design-Build Proposal, (items 1 through 8, inclusive) amount written in words:

---

Design-Builder: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

The names of all persons interested in the foregoing proposal as principals are as follows:

---

---

---

IMPORTANT NOTICE: If Design-Builder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Design-Builder or other interested person is an individual, state first and last names in full.

NOTES:

- A. The Contract Price to be used in the selection process as described in Attachment G of the RFP will be determined by the base proposal alone.
- B. After the selected Design-Builder has been determined, the City may, at its sole discretion, award the contract for the Base Proposal alone or for the Base Proposal plus one or more alternates.
- C. Proposals shall not contain any recapitulation of the Work. Conditional Proposals may be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.
- D. Subcontractors' License Numbers must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.
- E. Blank spaces must be filled in. The Design-Builder's failure to submit a price may render the Proposal non-responsive and ineligible for award.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of conflict between the Product of the Quantity x Unit Price and the written Extension, the Product shall govern.
- H. In the case of conflict, between the sum of the Extensions and the Bid Total, the sum of the Extensions shall govern.





# City of San Diego

Request for Proposal for

## MACC Task Number: 07 16 Inch and Larger CI Water Main and Sewer Replacement Group A

Proposal No. K-17-1556-MAC-3

June 14, 2017



Harris & Associates.



## Proposer Information

---

### Prime Contractor

Orion Construction Corp./Balboa  
Construction, Inc. J.V.  
Legal Form: Joint Venture  
Parent Company: N/A  
2185 La Mirada Drive  
Vista, CA 92081  
Contact: Rob Wilson, Vice President  
Email: Rob@orionconstruction.com  
Phone: (760) 597-9660  
Contractor License: #788132, Class A, B  
Expires: 11/30/2018  
Licensed Since: 11/30/2000  
103 employees in SD County

### Joint Venture Contractor

Orion Construction Corporation  
2185 La Mirada Drive  
Vista, CA 92081  
29 years in SD County  
103 employees in SD County  
Contact: Richard Dowsing, President  
Email: Richard@orionconstruction.com  
Phone: (760) 597-9660  
Contractor License: #549309, Class A, B, C-  
27, HAZMAT, Asbestos  
Expires: 11/30/2018  
City Business License #B1992002970

### Joint Venture Contractor

Balboa Construction, Inc.  
2647 Gateway Road Suite 105, #395  
Carlsbad, CA 92009  
Contact: Fia Dowsing  
Email: fia@balboaconstruction.com  
Phone: (760) 598-2160  
Contractor License: #731286, Class A, B  
Expires: 7/31/2017  
City License #B1998008128  
Office in San Diego County for 19 years

### Design Partner

Harris and Associates  
600 B Street, Suite 2000  
San Diego, CA 92101  
Contact: Gail Masutani, PE, PhD  
Project Manager  
Email: gail.masutani@weareharris.com  
Phone: (619) 814-9509  
California RCE #46733  
Expires: 06/30/2017  
Office in San Diego County: 18 Years  
35 employees in SD County  
City License #B1999005573



## Section 1: Addenda to the RFP

Orion Construction Corporation / Balboa Construction Inc. (hereafter referred to as Orion) and our Design Partner Harris and Associates, acknowledge receipt of the following Addendums:

- Addendum 1 – April 13, 2017
- Addendum 2 – April 28, 2017
- Addendum 3 – May 4, 2017
- Addendum 4 – May 26, 2017

## Section 2: Exceptions to the RFP

Orion and its Design Partner Harris and Associates take no exceptions to this RFP.

## Section 3: Subcontracting Participation Percentages

Please see Appendix A for a listing of subcontractors, design professionals, and vendors that we propose to use for this project. Orion has a long history of exceeding SLBE/ELBE requirements for projects with the City, demonstrating our firm’s commitment to partnering with SLBE/ELBE’s.

As a result of our outreach for this project we have selected the following firms to perform work on this project:

DESIGN PHASE	CONSTRUCTION PHASE
Rancho Coastal Engineering (ELBE)	Sealright Paving (OBE)
Harris and Associates (OBE)	Valor Constructors (SLBE)
Humanability (ELBE)	Draves Pipeline (DVBE)
Air-X (SLBE)	G. Scott Asphalt (DVBE)
SCST (DVBE)	LSI Road Marking (SLBE)
	Humanability (ELBE)
	Miramar General Engineering (ELBE)
	Air-X (SLBE)
	Brownlow Enterprises (ELBE)
	Geo Cell (DVBE)
	Underground Pipeline Solutions (SLBE)
	Prolink Engineering (SLBE)

In accordance with Section 10.2 of the RFP, we have exceeded the mandatory minimum subcontractor participation percentages for this RFP as shown below:

MANDATORY MINIMUM	SLBE/ELBE	DVBE	TOTAL
Design Services	12.6%	1.30%	13.90%
Construction Services	22.3%	4.00%	26.30%

The dollar amounts for each SLBE/ELBE and DVBE subcontractors are listed on the subcontractor listing forms included with our price proposal. Additional documentation can be found in Appendix A.

## Section 4: Summary of Proposal

---

Orion Construction Corporation has teamed with our affiliate company Balboa Construction, Inc. in a Joint Venture. The Orion/Balboa J.V. was licensed by the State of California in 1997. For this project, Balboa will be providing equipment, onsite trucking, and haulage services. Orion will be the single point of contact with the City, and for this RFP, the J.V. Contractor will be referred to as “Orion.” Orion recognizes that the project will require in-depth local construction knowledge and specific engineering design expertise to meet the City’s project requirements. Orion’s stable workforce is well suited to successfully manage and construct projects over several years such as Group Job A which spans 600 working days. Orion will utilize its multiple local construction yards to support this task order in all its various locations throughout the City. Orion’s contractor led, fully integrated design-build engineering and construction team is the best approach to provide the City with the desired result.

### **Project Team**

#### *Construction Team*

Orion has selected Jason Danks to serve as the project manager. He was chosen for his past experience and recent work constructing large design-build utility infrastructure projects for the City of San Diego. Jason has been a project manager on fifteen City of San Diego Design Build Group Jobs. Jason’s team will consist of Jason Arme, a seasoned specialist in sewer pipeline projects, and Scott Vargas, a superintendent with numerous completed City of San Diego D/B Group Jobs and Utility Infrastructure projects. Jason’s team brings an unparalleled level of experience to the project, experience that will ensure that construction impacts on the community are mitigated to the maximum extent.

#### *Design Team*

Orion has selected Harris and Associates as the design engineer consultant for this task order. Orion has a long history with Harris on 13 City Design Build projects with them valued at over \$50 million in the recent past. Orion and Harris have proposed the same management team that has completed many of these projects. Orion and Harris also recognize the importance of proactive communication with the community and have selected ELBE firm Humanability as the community outreach partner for this project.

### **Design Approach**

Orion’s approach will integrate the construction requirements, moratorium windows, and other important elements of the construction into the conceptual design early in the process. Orion’s Project Manager Jason Danks and Harris’ Civil Engineer, Jason Caprio, personally went to each site in preparation of this proposal. By doing so, they have captured and incorporated both the engineering and constructability reviews into the proposal phase, providing the City with an accurate concept and best value for this project. Orion will identify and incorporate permit requirements and coordinate with local service agencies such as fire, police, local schools, and waste disposal for access impacts. The Orion team will collaborate through the design and construction phases to minimize overall impacts to the project and surrounding residents. The team has already conducted extensive field investigations and community outreach to incorporate stakeholder input into this proposal. Orion will take additional care to coordinate with adjacent City projects.



### **Construction Approach**

Orion has incorporated our best construction methods into this proposal by involving our construction staff as early as the proposal phase. This preparation allows our designers and constructors to come up with creative solutions to efficiently solve challenges. Orion will minimize the impact to the residents and neighborhood schools while completing our work in safe, clean, and efficient manner. Orion will develop well-coordinated, public outreach and a project specific safety plan. The safety plan will identify safe passage for the public during construction activities and place special attention to the safety of vehicles, pedestrians, children, and special needs residents.

### **Challenges/Cost Saving Measures**

Water Main and Sewer Replacement Group A has several unique challenges and opportunities for cost saving measures for the City. The Orion team has reviewed the RFP documents, additional engineering resources, and conducted field studies of the existing conditions to propose on this project. Orion recognizes that the majority of construction work will occur on heavily trafficked corridors with many businesses and residential thoroughfares. The DB team will work closely with the traffic control department and the surrounding communities to develop traffic plans that mitigate negative traffic effects during construction and maintain business access at all times. There may be opportunities for cost savings at several of the sites with sewer main and manhole replacement based on the D/B team's preliminary analysis on the existing sewer infrastructure. Sewer rehabilitation and manhole lining may be possible at several locations. Rehabilitation instead of replacement will reduce costs as well as traffic impacts at these locations.

### **Public Outreach**

Orion has taken a proactive public outreach approach. Orion has identified and met with numerous community stakeholders to get a solid understanding the project's impact on the community. Orion has incorporated these findings into the construction phasing and traffic control approaches. Orion conducted direct outreach to the residents to engage the community during the proposal phase. This outreach helped Orion incorporate pedestrian site lines and traffic approaches that benefit the community into this proposal, well before the typical project outreach.

### **Small Business**

Orion's long-standing project history with the City has facilitated an understanding, appreciation, and commitment to meeting or exceeding the City's goals for supporting SLBE/ELBE and disabled veteran business enterprises (DVBE). We received the 2012 Prime Contractor of the Year Commendation from the previous City of San Diego Mayor, Jerry Sanders, for consistently meeting and/or exceeding subcontracting goals and serving in the AGC Mentor Protégé Program. Orion continues to this day to Mentor contractor's both formally and informally, helping the overall construction community within San Diego achieve greater diversity. We have selected City of San Diego Approved SLBE/ELBE/DVBE's to support our work on this project and have exceeded the mandated minimum.



**Richard Dowsing, President**  
**Orion Construction Corporation**

## Section 5: Project Team

### Project Team Overview

This team brings to the City of San Diego local, highly reputable, and experienced design-builders that provide the same quality design, construction, and attention to client service that has been a goal and hallmark of Orion’s past city projects. Orion has worked with Harris for eight years, building together 13 D/B water and wastewater projects for the City, valued at over \$50 million dollars. The core group of design and construction professionals that worked on these past collaborations is proposed on this project.

This team has extensive and direct local experience that is ideally suited to water and wastewater pipeline, design, and construction in metropolitan San Diego. Orion has completed City Design Build Pipeline Group Jobs 790, 743, 921, 922, and 926; totaling nearly \$19 million in project value. Orion also has the following ongoing D/B projects in various stages of design or construction: Group 1010/1005, Group 1019, Group 1029, Catalina Cast Iron Main Replacement, and Meadowlark Water Main Replacement all totaling \$33 million. As shown in the table below, Orion’s current City projects align well with the projected schedule for the Group A project. The design phases of these projects will be completed shortly and do not substantially overlap workloads needed for Group A. Orion’s current construction phases will be substantially complete before the project is scheduled to proceed to construction.

Current Orion City of San Diego D/B Project Progress			
Project	Phase	Start	End
Catalina Cast Iron Main Replacement	Construction	5/31/2017	9/1/2018
Meadowlark Water-Main Replacement	Design	1/14/2016	7/31/17
Meadowlark Water-Main Replacement	Construction	8/1/2017	9/15/2018
Group Job 1019	Design	5/31/16	9/7/17
Group Job 1019	Construction	9/7/17	7/1/18
Group Job 1029	Design	6/15/17	3/31/18
Group Job 1029	Construction	3/31/18	5/2/19
Water and Sewer Group A	Design	8/10/17	5/30/18
Water and Sewer Group A	Construction	5/31/18	11/25/19

The following summarizes our key personnel to be assigned to the project, including relevant design and construction experience of each member. Key personnel available for assignment to this project are immediately available and committed to fulfilling their respective assignments for the full-term duration of the project.

**Experience**

- Over 30 years construction in San Diego area

**Certifications/Registrations**

- DBIA Trained Professional
- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified

**Education**

- BS – Civil Engineering - Union College



***Project Director – Rob Wilson***

Rob Wilson will serve as the Project Director. Rob is the Vice President of Orion and has over 30 years of local experience in the construction industry, almost 20 of these with Orion. He will provide senior corporate-level management to the project. Rob is fully versed in the Design-Build delivery method and is an active member of the DBIA community. Rob will monitor the design and construction teams, ensuring that Jason has all the available resources needed to complete this project successfully. Rob fulfills this role on all our City D/B projects, ensuring the continuity of quality service every time. Orion’s project management and executive staff conduct a comprehensive region-wide weekly progress meeting that discusses and addresses: project status, issues, staffing, and potential challenges on active projects. At these meetings, Jason will update Rob and the rest of Orion’s management team on the progress. Together, Rob and the rest of Orion’s management team will collaborate to identify potential internal and external issues that could affect the project and resolve or develop strategies for their resolution.

**Experience**

- Successful completion of 14 City of San Diego D/B projects
- 15 years of water infrastructure construction management

**Certifications/Registrations**

- DBIA Certified Professional
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- HAZWOPER 40 Hour



***Design-Build Project Manager –Jason Danks***

The successful design and construction of this project centers on Orion’s Project Manager (PM), Jason Danks. Jason will serve as the day-to-day point of contact for the City of San Diego’s Project Manager. Jason has 20 years of construction experience, 15 of them with Orion, managing projects in the in City of San Diego and is Orion’s most capable project manager. He has served in his role as project manager on fifteen recent City of San Diego Water and Sewer Replacement Group Jobs.

From the City Notice to Proceed through project completion, Jason will deliver a high-quality design with safe and prompt construction, while integrating City Staff comments, community feedback and providing coordination with other City projects and impacted public entities. Jason will be complemented by a fully integrated design and construction team that has consistently delivered successful projects on time and to the complete satisfaction of the City. Jason’s team members have been specifically selected for their attributes of being collaborative, adaptable, and proactive in dealing with all the challenges faced in a D/B project.

**Experience**

- Construction Manager for multiple large diameter steel pipeline projects in Southern California

**Certifications/Registrations**

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour

**Education**

- Bachelor of Science - SDSU



***Construction Manager- Jason Arme***

Jason Arme will serve as the Construction Manager (CM). Jason has ten years of construction experience in water and waste water infrastructure. Jason's experience includes design-bid-build and design-build projects with multiple Southern California Municipal and Federal clients. Jason recently completed two significant projects involving D/B water and storm water pipelines on Camp Pendleton and for the San Diego International Airport, the latter project being selected for the APWA project of the year 2016. Jason Arme has participated in the preparation of this proposal by physically reviewing design concepts onsite at each of the locations and will continue to do so during the design phase. During the construction phase, Jason will prepare and update the three-week look-ahead schedule, review and address community impacts and concerns, review day to day crew planning with the site superintendent, plan ahead to address potential impacts and issues, and address potential Public and worker safety concerns. He will report directly to Orion's Project Manager. In preparation of this proposal, Jason Arme personally reviewed the project site conditions extensively and validated existing as-built information. He was an integral member of the team that came up with the proposal design concept. As a final check, he performed constructability reviews of the proposed design concept with Orion's experienced field superintendents, incorporating their comments and ideas into preparing this response to the RFP.

**Experience**

- 25 years utility construction in SD

**Certifications/Registrations**

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- Competent Person: fall protection, scaffolding, trench shoring and excavation, confined space
- First Aid and CPR



***Superintendent – Scott Vargas***

Scott has over 25 years of experience in utility construction in San Diego, 21 of which with Orion. Scott is a Senior Superintendent with Orion and has constructed numerous water and sewer pipeline replacements in the City of San Diego. Scott brings valuable real-world construction experience into the design phase. He provides valuable insights and assists the D/B team in bringing the project from a concept, through design, and into a finished functioning system. As superintendent, Scott recently completed the City of San Diego Design Build Scripps Ranch Pump Station, which won the 2014 APWA Outstanding Project Award, and the APWA 2016 Project of the Year: NSU Storm Drain Trunk. Scott has worked on numerous projects involving deep excavations for pipeline installation and has extensive experience performing all types of work that will be required for the Group A project.

**Certifications/Registrations**

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- HAZWOPER 40 Hour

**Education**

- BS Civil Engineering – McGill University



***QA/QC Manager – Heidi Andrews***

Heidi will serve as the overall Project QA/QC Manager and Permit Engineer. She will ensure that all design QA/QC from Harris' internal program is incorporated into the final design and all City review comments are addressed formally. She is responsible for the follow-on QC from the design into the construction phase. Heidi has over 20 years of experience in water/wastewater infrastructure construction, 15 of them with Orion. She is a well-rounded professional construction executive versed in all aspects of D/B project delivery. She is a NAVFAC trained and certified quality control manager. She was the quality control manager and permitting engineer for the DBIA Award Winning Orion Design-Build La Bonita Park Water Facilities Project and this year's APWA Water Utility Project of the Year completed at the San Diego Airport by Orion. Heidi will develop the project's comprehensive Quality Control Plan (QC Plan), oversee its execution, and adherence contract requirements. Heidi will also provide project-wide Quality Assurance to the designer's own internal quality control program, and work closely with Orion's Design and Construction team members to provide additional oversight, to ensure that the overall plan is implemented.

***Section 5.1.1 Civil: Design Project Manager – Gail Masutani, PE, PhD***

Gail has over 25 years of civil engineering experience involving water and wastewater infrastructure design, including transmission mains, distribution pipelines, pressure reducing stations, pump stations, and water distribution planning. Gail has managed the successful delivery of many projects with the City of San Diego in recent years. She understands the City's requirements for quality, budget and schedule management, and has a demonstrated ability to coordinate teams to deliver on those expectations. Gail's relevant experience includes managing the design phase for several Orion led D/B projects for the City of San Diego which most recently include: Catalina Boulevard 12-inch Cast Iron Water Main Replacement with 24-inch CML&C, AC Water and Sewer Job 1010/1005, and Sewer Group Job 743.

**Certifications/Registrations**

- Professional Engineer CA #46733
- Member of ASCE Pipeline and Environmental Group (Board of Directors), Water Environment Federation

**Education**

- BS, Civil Engineering, UC Los Angeles
- MS, Civil Engineering, UC Los Angeles
- PhD, Civil Engineering, UC Los Angeles



**Harris & Associates.**



**Certifications/Registrations**

- Professional Engineer CA #74783

**Education**

- BS, Civil Engineering, UC Irvine



**Harris & Associates.**

**Civil Engineer – Jason Caprio, PE**

Jason has over 12 years of experience performing engineering design, construction, and project management and administration of water and sewer infrastructure projects. Jason’s responsibilities and past projects involve sewer mains, wastewater treatments plants, storm drains, roadway and streetscape improvements, and ADA compliance. Jason was the lead designer for several City of San Diego Design-Build projects such as the AC Water and Sewer Group Job 1001. Jason identified many design concepts during the proposal phase for Group A. He visited each site with Orion staff members to address the feasibility of construction at each location, resulting in the best value solution to the project.

**Section 5.1.2 Structural:** Not applicable for this project. There are no new structures requiring structural design for this project.

**Section 5.1.3 Environmental: *Environmental Compliance Officer – Diane Sandman, AICP***

Diane Sandman has 16 years of experience in environmental sciences and planning. She has worked extensively on California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance documents, including environmental impact reports (EIRs) and Mitigated Negative Declarations (MNDs) for numerous recent City of Vista, water/sewer and master plan projects. Diane has been responsible for permitting coordination with resource agencies including the US Army Corps of Engineers (USACE), US Fish and Wildlife Service (USFWS), California Coastal Commission (CCC), California Department of Fish and Wildlife (CDFW), and the San Diego Regional Water Quality Control Board (RWQCB).

**Experience**

- 16 Years environmental science and planning
- Permit Coordinator with USACE, USFWS, CCC, CDFW, and RWQCB

**Education**

- Environmental Studies, USD



**Harris & Associates.**



**Section 5.1.4 Geotechnical: *Geotechnical Engineering and Testing – Southern California Soils and Testing (SCST)***

SCST was established in 1959 and serves both the public and private sectors. Orion and its design partner, Harris and Associates, have a long-standing relationship with SCST. The firms have collaborated on all types of design-build construction including municipal and federal institutions and utility infrastructure for over ten years.

**Section 5.1.5 Corrosion:** Will follow City standards for the protection of buried ductile iron fittings using petroleum wax tape wrap per AWWA C-217. No Special corrosion engineering not required for this project.

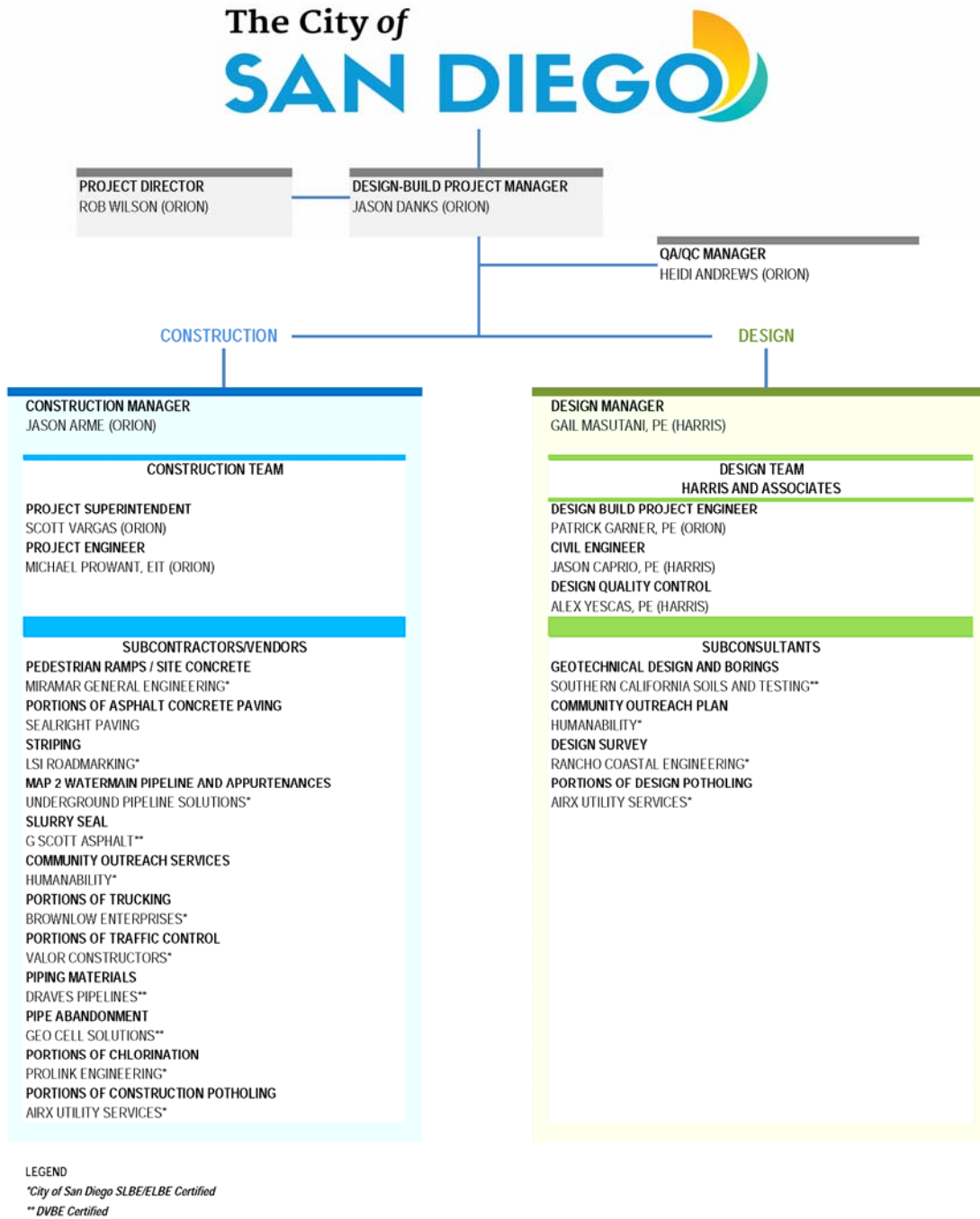


Figure 1 – Org Chart

## Section 6: Technical Approach and Design Concept

### 6.1 Design Concept Overview

The Orion team's design approach to the Water Main and Sewer Replacement Group A design-build project is based on a review of the following documents:

- Bridging documents and the RFP with all addenda.
- City water, sewer, right-of-way, and GIS data from SANGIS and SPLASH databases.
- Water and sewer GATE Book Infrastructure Atlas Maps.
- Aerial Orthophotography.
- Memorandum from multiple site visits by the design and construction teams, including measurements, photographs, and discussions with community members and leaders.
- Utility company record drawings.
- Planning studies from related CIP projects for potential impacts to this project.

Orion will utilize the following proven design process to complete the Group A project:

- **Kickoff Meeting** – Orion will use the City kickoff meeting to reaffirm our understanding of the City's expectations, review schedule, discuss/answer questions, and assign action items.
- **Data Gathering** – Following the **Kickoff Meeting**, Orion will identify required information that was not included in the RFP, request additional information and as-built drawings from the appropriate utility agencies such as SDG&E, ATT, CATV, etc.
- **Design Survey** – During the **Data Gathering**, Orion will develop the design survey with its selected sub-consultant. The surveyor will pick up, and incorporate into the survey, additional surface and subsurface information requested by the Design Team.
- **Base Mapping** – Using the **Design Survey** and information obtained during the **Data Gathering**, the Team will develop the project Base Mapping which includes all existing facilities pertinent to the project design and construction.
- **Field Investigation and Potholing** – The Construction Team will use the RFP provided Base Map to evaluate the construction corridor, identify utilities to pothole during the design phase, and identify and address construction challenges, and provide feedback to the Design Team.
- **Design Concept** – Based on the **Field Investigations**, Orion's Construction Team will coordinate with the Design Team to develop a conceptual design that will minimize public, traffic, and environmental impacts during construction.
- **Community Relations** – The Community Relations Plan will be developed during the design phase. It will identify stakeholders, include a schedule for holding community meetings, and milestones preparing/distributing door hangers.
- **Basis of Design** – The Design Team will develop a Basis of Design Report (BODR). The BODR will include the current project description, design calculations, requested deviations from City Standards, ADA curb ramp compliance, permit requirements, and project schedule.
- **Geotechnical Investigation** – using the **Design Concept** the Design Team will coordinate with the Geotechnical Engineer to perform the Geotechnical Investigation and prepare the Geotechnical Report with recommendations.
- **Design Submittal** – Utilizing the **Geotechnical Report** recommendations, **Design Concept**, and **BODR** the Design Team will prepare the design submittal. Each design submittal will include the information required for the level of submittal (30%, 60%, 100%).



- **Internal QA/QC Team** – Prior to all **Design Submittals**, Orion’s Design Build QA/QC Manager Heidi will oversee the review of the design submittals with the appropriate parties and ensure all issues and stakeholder comments are addressed.
- **Preconstruction** – Once the appropriate **Design Submittal** level is approved for construction (60% or 100%) by the City, Orion will submit the Project Safety Plan, SWPPP, SWQMP, traffic control plan, and request a Preconstruction meeting.
- **Construction** – Following the **Preconstruction** meeting, Orion will coordinate with our Community Relations sub-consultant to prepare and distribute door hangers, meet with appropriate residents and businesses, re-call for USA mark outs, obtain appropriate permits (traffic, noise), and initiate additional potholing and utility locating. Throughout construction, Orion will hold weekly construction meetings and coordinate with adjacent projects.
- **Post Construction / Startup** – Orion will address all of the City’s punch list items, implement appropriate startup measures and training, and prepare as-built drawings.

## 6.2 Technical Design Approach

### Map 1 – Via De La Valle at Jimmy Durante Boulevard (Water)

Map 1 is a water main replacement at the intersection of Via De La Valle and Jimmy Durante Boulevard, near the northeastern property corner of the Del Mar Fairgrounds. The existing water main is 18-inch and 20-inch diameter ductile iron (DI) and is exclusively used as a fire supply source. Per Addendum No. 4, the length of replacement pipeline identified is 111 feet. During the proposal preparation, the team contacted Sam Longenecker, the Chief of Plant Operations with the Del Mar Fairgrounds, and learned that there are three (3) other water supply sources owned by the City of Del Mar confirming that the feed replaced is only used for emergency fire use. Replacement work will be contained within the City of San Diego and City of Del Mar rights-of-way to mitigate traffic and public event impacts.



The improvements summary for this map are itemized in the table below.

<b>Map 1 Improvements Summary</b>			
<b>Water Improvements</b>		<b>Sewer Improvements</b>	
Pipeline Diameter (inches)	16"	Pipeline Diameter (inches)	NA
Pipeline Length (feet)	111'	Pipeline Length (feet)	NA
Pipeline Abandonment (feet)	0'	Pipeline Abandonment (feet)	NA
Services	0	Manholes (each)	NA
New/Relocated/Reconnected Fire Hydrants (each)	0	Laterals/Replumbs (each)	NA
Curb Ramps (each)	3		

**Map 2 – Clairemont Mesa Boulevard from Frink Avenue to Diane Avenue (Water)**

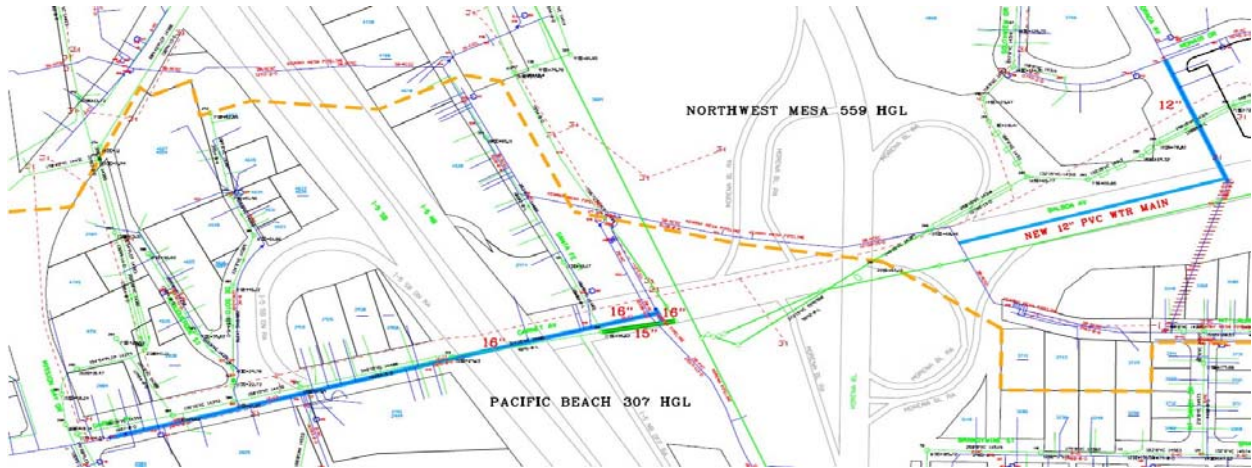


Map 2 is a water main replacement along Clairemont Mesa Boulevard from Frink Avenue to Diane Avenue in the Clairemont Mesa Community. The water main replacement includes the replacement of 1,327 feet of 16-inch diameter cast iron (CI) pipe. The current alignment of the 16-inch diameter CI water main lies on the east-bound traffic lanes of Clairemont Mesa Boulevard. There are approximately twenty (20) water services that must be connected to the proposed 16-inch diameter PVC water main. As noted in Addendum 4, one of the water services will be an 8” connection to the existing shopping center water service.

The improvements summary for this map are itemized in the table below.

<b>Map 2 Improvements Summary</b>			
<b><u>Water Improvements</u></b>		<b><u>Sewer Improvements</u></b>	
Pipeline Diameter (inches)	16”	Pipeline Diameter (inches)	NA
Pipeline Length (feet)	1,327’	Pipeline Length (feet)	NA
Pipeline Abandonment (feet)	0’	Pipeline Abandonment (feet)	NA
Services	20	Manholes (each)	NA
New/Relocated/Reconnected Fire Hydrants (each)	3	Laterals/Replumbs (each)	NA
Curb Ramps (each)	0		

**Map 3 – Garnet Avenue and Moraga Avenue (Water & Sewer)**



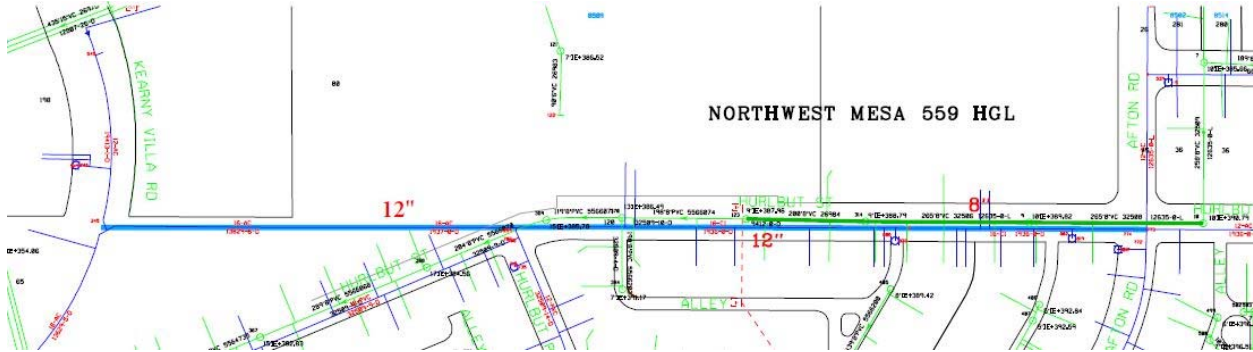
Map 3 includes both water and sewer improvements. The water improvements are separated into two (2) distinct stretches: Garnet Avenue and Moraga Avenue. The collective replacement linear footage totals more than 2,200 feet of 16-inch diameter cast iron (CI) pipe. The water main alignment along Garnet Avenue from Mission Bay Drive to Santa Fe Street runs near the middle of the roadway. The Moraga Avenue alignment is in the north-bound traffic lanes and turns west traveling down Garnet to the point of connection on the existing 30-inch reinforced concrete steel cylinder (RCSC) water main.

The sewer improvements are approximately 200 lineal feet of 15” VC pipe being replaced with new 15” PVC pipe. Map 3 requires coordination and permitting activities with San Diego Metropolitan Transit System (MTS), Caltrans, and private property owners.

The improvements summary for this map are itemized in the table below.

<b>Map 3 Improvements Summary</b>			
<b>Water Improvements</b>		<b>Sewer Improvements</b>	
Pipeline Diameter (inches)	16/12”	Pipeline Diameter (inches)	15”
Pipeline Length (feet)	1,620’	Pipeline Length (feet)	200
Pipeline Abandonment (feet)	410’	Pipeline Abandonment (feet)	0’
Services	22	Manholes (each)	2
New/Relocated/Reconnected Fire Hydrants (each)	4	Laterals/Replumbs (each)	0
Curb Ramps (each)	8		

**Map 4 – Hurlbut Street at Angier Elementary School (Water & Sewer)**



Map 4 includes both water and sewer improvements along Hurlbut Street from Kearny Villa Road to Afton Road. These improvements are in the Serra Mesa Community, just south of the Angier Elementary School. The water main replacement includes 1,665 lineal feet of 16-inch diameter asbestos cement (AC) pipe which will be replaced with a 12-inch diameter polyvinyl chloride (PVC) pipe. The current alignment lies in the east-bound traffic lanes of Hurlbut Street. In addition to supplying Angier Elementary School with potable water, the existing water main has ten (10) water services that will be connected to the new 12-inch replace in place PVC water main.

The sewer main replacement includes 730 lineal feet of 8-inch diameter vitrified clay (VC) pipe replacement. The current alignment is in the roadway centerline, and it will be replaced in place. The replacement also includes four (4) sanitary sewer manholes.

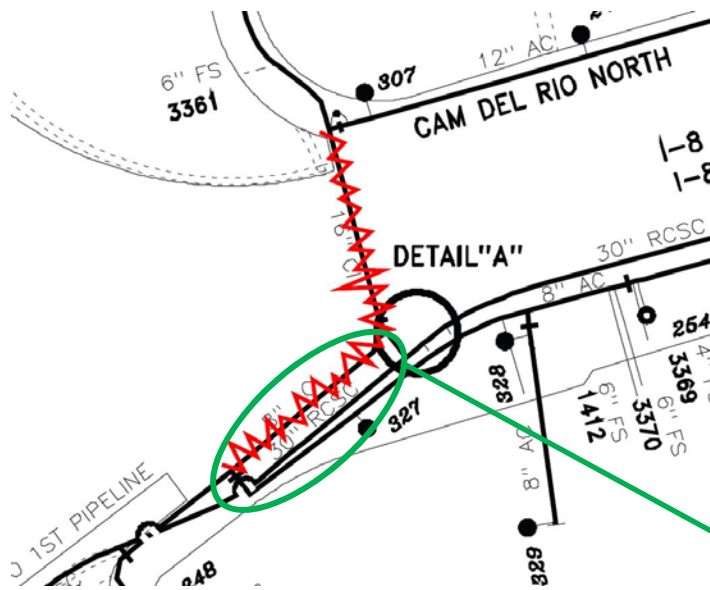
The improvements summary for this map are itemized in the table below.

<b>Map 4 Improvements Summary</b>			
<b><u>Water Improvements</u></b>		<b><u>Sewer Improvements</u></b>	
Pipeline Diameter (inches)	12"	Pipeline Diameter (inches)	8"
Pipeline Length (feet)	1,665'	Pipeline Length (feet)	730
Pipeline Abandonment (feet)	0'	Pipeline Abandonment (feet)	0'
Services	12	Manholes (each)	4
New/Relocated/Reconnected Fire Hydrants (each)	3	Laterals/Replumbs (each)	19
Curb Ramps (each)	4		



### Map 5 – Camino del la Siesta at Interstate 8 (Water)

Map 5 includes water main replacement and abandonment along Camino De La Siesta, underneath Interstate 8 and State Route 163 south-bound on-ramp, terminating at Camino Del Rio South. The existing 16” water main will be downsized to a 12” water main on Camino De La Siesta. 300 lineal feet of 8-inch and 16-inch water main will be abandoned within the Caltrans right-of-way beneath Interstate 8. The current alignment of the 16-inch diameter AC/CI water main is located in the north-bound traffic lanes of Camino Del La Siesta. The team determined that the 8-inch abandonment should continue west along Camino Del Rio North as the existing 8-inch diameter AC and 30-inch diameter RCSC water mains are already connected in multiple locations.



Additional Abandonment Proposal



RFP Provided Scope of Work

The improvements summary for this map are itemized in the table below.

Map 5 Improvements Summary			
Water Improvements		Sewer Improvements	
Pipeline Diameter (inches)	12”	Pipeline Diameter (inches)	NA
Pipeline Length (feet)	613’	Pipeline Length (feet)	NA
Pipeline Abandonment (feet)	296’	Pipeline Abandonment (feet)	NA
Services	3	Manholes (each)	NA
New/Relocated/Reconnected Fire Hydrants (each)	1	Laterals/Replumbs (each)	NA
Curb Ramps (each)	0		

**Map 6 – B Street from Pershing Drive to 22<sup>nd</sup> Street (Water & Sewer)**



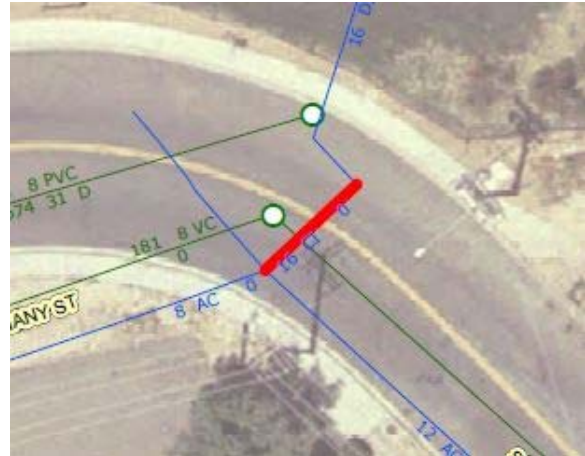
Map 6 includes both water and sewer improvements along B Street from Pershing Drive to 22<sup>nd</sup> Street. The sewer main replacement extends along B Street to 20<sup>th</sup> Street and then heads south on 20<sup>th</sup> St. These improvements are within the Greater Golden Hill neighborhood, just east of Interstate 5. Approximately 800 lineal feet of water main will be replaced and the current 16-inch CI water main will be downsized to a new 12-inch PVC water main. The current water main alignment runs through the middle of the east-bound traffic lanes on B Street, while the sewer main alignment is in the centerline. 430 lineal feet of sewer main will be replaced. The existing 8” concrete pipe will be upgraded to an 8-inch PVC sewer main. The replace-in-place sewer improvements include three (3) sanitary sewer manholes.

The improvements summary for this map are itemized in the table below.

<b>Map 6 Improvements Summary</b>			
<b>Water Improvements</b>		<b>Sewer Improvements</b>	
Pipeline Diameter (inches)	12”	Pipeline Diameter (inches)	8”
Pipeline Length (feet)	800’	Pipeline Length (feet)	430
Pipeline Abandonment (feet)	0’	Pipeline Abandonment (feet)	0’
Services	12	Manholes (each)	3
New/Relocated/Reconnected Fire Hydrants (each)	1	Laterals/Replumbs (each)	7
Curb Ramps (each)	4		

### Map 7 – Saipan Drive (Water)

Map 7 is a water main replacement at the knuckle of Saipan Drive and Alleghany Street in the Skyline Paradise Hills community. It is adjacent to the existing Navy housing area. The existing water main is a 16-inch diameter cast iron (CI) pipe which will be replaced with a 16” PVC water main. The total lineal footage of replacement is 24 feet and includes the cross and valves.



The improvements summary for this map are itemized in the table below.

<b>Map 7 Improvements Summary</b>			
<b>Water Improvements</b>		<b>Sewer Improvements</b>	
Pipeline Diameter (inches)	16”	Pipeline Diameter (inches)	NA
Pipeline Length (feet)	24’	Pipeline Length (feet)	NA
Pipeline Abandonment (feet)	0’	Pipeline Abandonment (feet)	NA
Services	0	Manholes (each)	NA
Fire Hydrants (each)	0	Laterals/Replumbs (each)	NA
Curb Ramps (each)	4		

### Pipeline Alignment, Sizes, and Locations of Appurtenances

#### Water Mains (Replace-in-Place and Proposed)

##### *Water Pipeline Alignment and Diameters*

The replacement water mains for all seven (7) maps will range in size from 12-inch to 16-inch diameters. The pipelines will be installed in a replace-in-place manner within Del Mar, Clairemont Mesa Boulevard, Garnet Avenue, Hurlbut Street, Camino Del La Siesta, B Street, and Saipan Drive. The depth of cover will be a minimum three (3) feet.

##### *Water Pipeline Material*

The replacement water mains will be designed in accordance with the City’s Design Guidelines. We will follow AWWA C-900 (*Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings 4-inch through 12-Inch*) for the 12-inch PVC pipelines and AWWA C-905 (*Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings 14-inch through 48-Inch*) for the 16-inch PVC pipelines. The pressure and dimension ratio (DR) shall be Class 235 and 18, respectively.

##### *Water Pipeline Fittings*

Pipeline fittings shall be ductile-iron with mechanical joints in accordance with AWWA C-110/111. Ductile-iron fittings (suitable for PVC pipelines) shall be cement mortar-lined at a doubled thickness in accordance with the City’s Whitebook Section 209-1.1.2.10. (2015 edition) and AWWA C-104 (*Cement-Mortar Lining for Ductile-Iron Pipe and Fittings*). Also, all ductile

iron fittings will have cold-applied petroleum wax tape wrap in accordance with AWWA C-217 (Petrolatum and Petroleum Wax Tape Coatings for the Exterior of Connections and Fittings for Steel Water Pipe).

### ***Isolation Valves***

Isolation valves will be provided, with the majority being 16-inch butterfly valves. For Maps 4, 5, and 6, the replacement water mains will be downsized from 16-inch to 12-inch which will require gate valves for isolation. Additional gate valves may be designed and installed depending location, function, tie-in connections, fire hydrants, and any “normally closed” bypass lines.

### ***Combination Air-Vacuum and Air-Release Valves (AV/AR) Valves***

During the design phase, we will research the as-built drawings and perform site visits to confirm the locations of any air-vacs affected by the construction of this project. These locations will be analyzed and confirmed for proper function and pipeline protection while incorporating the new requested construction upgrades. Once all locations are confirmed AV/AR appurtenances will be installed with the enclosure and located on the back of the respective sidewalks in accordance with City of San Diego Standard Drawing SDW-117 when possible. If additional design consideration is required, the team will work with the City to identify the best location for such an installation.

### ***Blow-Off Assemblies***

To drain portions of pipelines and blow-down segments that may collect sediment and undesirable residual matter, blow-off assemblies are designed and installed properly and in accordance with the City’s Standard Drawings (2016 edition). The replacement water mains, as with many distribution pipelines, will utilize fire hydrants, existing and new, at or near low points to satisfy the need for blow-off assemblies. The location of these fire hydrants is described elsewhere in the Proposal and shown on the related exhibit.

### ***Water Services and Connections***

Typical water service connections will be 1-inch and 2-inch diameter. This project also affects some large diameter water services which will be reconnected to match the existing sizes. The DB team will design and install all water service connections consistent with the City Standard Drawings, County Regional Standard Drawings, and Uniform Plumbing Code. Water services will be installed perpendicular to the proposed water main and unused or non-permitted water services will not be reconnected unless a permitted building plan shows otherwise. Applicable standards are SDRSD WS-01, WS-02, WS-03, and City Standard Drawings SDW-100.







### **Fire Hydrants**

In accordance with Book 2 of the City’s *Design Guidelines*, the following fire hydrant assemblies spacing shall be required: 450-feet for residential areas, 350-feet for multi-family and commercial areas, and 250-feet for industrial areas. Each map was carefully researched and visited in person to determine the existing land uses, existing fire hydrant locations, and we identified additional fire hydrants required to satisfy the coverages and spacing requirements.



Each aerial photograph of the individual map location shown below utilizes graphics presented in the following legend to establish the new fire hydrants and to illustrate their approximate placement and installation.

**Legend**

- |   |  |
|---|--|
|  Existing Fire Hydrant                           |  New Fire Hydrant / Relocated Existing Fire Hydrant |
|  Existing Fire Hydrant (On Unrelated Water Main) |  Existing Fire Hydrant To Be Relocated              |
|  Replacement Water Mains                         |  350-foot Reference Measurement (Length)            |

**Map 1 – Torrey Pines Community Planning Area**

The replacement water main within Map 1 is an emergency fire service line to the Del Mar Fairgrounds and doesn't have any existing fire hydrants. Since the replacement water main is an emergency only facility and does not provide distribution or transmission functions, there will be no fire hydrants installed as part of this Project.

**Map 2 – Clairemont Mesa Community Planning Area**

Map 2 lies within the Clairemont Mesa Community Planning Area. This portion of Clairemont Mesa Boulevard includes both commercial and multi-family land uses. There are two (2) fire hydrants on the replacement water main alignment, which are spaced approximately 730 feet apart. Based on the commercial/multifamily land use, fire hydrant spacing should be no more than 350 feet apart. The compliant layout of fire hydrants is proposed below.



### Map 3 – Pacific Beach and Clairemont Community Planning Area

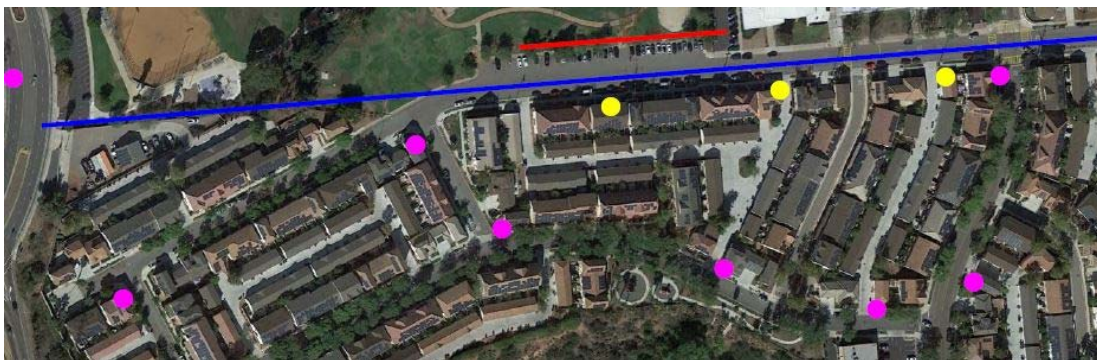
Map 3 includes land use designations from commercial to multi-family residential. The fire hydrant spacing requirement will be 350-feet. There are three (3) existing fire hydrants along the existing alignment, and two (2) connected to unrelated water mains, but assist with coverage and spacing measurements. Fire hydrants on Garnet Avenue will be relocated to satisfy the updated spacing requirements. Further to the east, Moraga Avenue would require one (1) extra fire hydrant at the tee intersection with Balboa Avenue.



Note: As part of the water relocations for the Mid-Coast Transit Corridor Project construction, the existing fire hydrant between Interstate 5 and the North County Transit District line will be relocated to a 12-inch diameter ductile iron unrelated water main. If the Mid-Coast project’s water facility relocations are complete before this Project, the noted existing fire hydrant will not require replacement. For purposes of this Proposal, it is assumed the relocations have not yet occurred.

### Map 4 – Serra Mesa Community Planning Area

Hurlbut Street is the border between the Sierra Mesa and the Kearny Mesa Community Planning areas. The Cabrillo Heights Park and the Angier Elementary School lie north of Hurlbut Street, and a multi-family residential complex lies south of Hurlbut Street. There are three (3) existing fire hydrants on Hurlbut Street. These are adequately spaced along the proposed replace-in-place alignment.



### Map 5 – Mission Valley Community Planning Area

Map 5 is located within the Mission Valley Community Plan. There is currently one fire hydrant along the replacement section of the waterline in Camino De La Siesta, and existing fire hydrants in the vicinity of Camino Del Rio North and Camino De La Reina. The existing fire hydrant spacing is under the maximum spacing of 350 feet. Therefore, no new fire hydrants are required.

There is an existing fire hydrant directly south on Camino De Rio South that is not on the portion of replacement water main. No additional fire hydrants are required.



### Map 6 – Greater Golden Hill Community Planning Area

Map 6 is located within the Greater Golden Hill Community Plan. The land use for this



specific area is multi-family residential to the south of B Street and the City of San Diego Operations Yard to the north. There are four (4) existing fire hydrants within the vicinity of the replacement water main that satisfy spacing requirements. No additional fire hydrants are necessary for installation on Map 6.

### Map 7 – Skyline/Paradise Hills Community Planning Area

Map 7 is located in the Skyline/Paradise Hills Community Planning Area. There is no fire hydrant assembly work within the limits of this location.

## Gravity Sewer Mains (Replace-in-Place)

### *Sewer Alignment and Diameters*

Replacement gravity sewer main work is required on three (3) of the subject Maps (3, 4, and 6) and will range in size from 8-inch to 15-inch diameters (the larger sewer main is on Garnet Avenue at Santa Fe Street). The mains will be installed in a replace-in-place manner within Garnet Avenue, Hurlbut Street, B Street, and 20<sup>th</sup> Street. The depth of cover will vary given the invert elevations at each tie-in location.

Our technical approach anticipates utilizing the *ASCE Manuals and Reports on Engineering Practice – No. 60 Gravity Sanitary Sewer Design and Construction*, including SDR-35 sewer pipe up to depths of at least 15 feet, and depending on geotechnical conditions, up to 20 feet. The SDR rating is selected utilizing a 1000 lbs/ft<sup>2</sup> modulus of soil reaction (140 lbs/ft<sup>3</sup> for soil) and a maximum deflection of 5%. Given the approximate depths of 14' installations on Maps 3 and 4, and 6' to 12' installations on Map 6, most of this Project will utilize SDR-26.



### ***Sewer Main Material***

The sewer mains will be designed utilizing PVC material and in accordance with the latest editions of the City’s Sewer Design Guide, Whitebook Part 207 *Gravity Pipe*, “Greenbook” Standard Specifications for Public Works Construction, and materials included on the *Approved Materials List for Wastewater*.

### ***Sewer Main Fittings***

Gravity sewer fittings shall also be PVC in accordance with City’s Sewer Design Guide, Whitebook Part 207 *Gravity Pipe*, “Greenbook” Standard Specifications for Public Works Construction, and materials included on the *Approved Materials List for Wastewater*.

### ***Sewer Manholes***

Sewer manholes will be designed and constructed in accordance with the City’s standard 48-inch and 60-inch diameter sewer manholes, depending on depth, with heavy-duty 36-inch diameter frame and covers. Replacement and new manholes will require lining if they are in groundwater, are in coastal communities, or are connected to sewer mains 18-inch and larger in diameter. (*Sewer Design Guide* Section 2.3.5.3).

### ***Sewer Laterals***

Existing sewer laterals that serve individual residential and commercial properties will be re-connected to the proposed sewer main to be constructed within the public right-of-way. The sewer laterals will be designed under the California and Universal Plumbing Code with a minimum depth of 5 feet and a maximum depth of 7 feet, measured at the property line. Given the nature of replace-in-place, only improvements from the property line to the proposed sewer main are planned, and therefore, some constraints may exist that require special consideration. Similar to any other improvements, sewer laterals will adhere to the Sewer Design Guide Part 2.5, Whitebook Part 207 *Gravity Pipe*, “Greenbook” Standard Specifications for Public Works Construction, and materials included on the *Approved Materials List for Wastewater*.

## **6.2.1 Traffic Control Approach**

See Section 7.1.10 for Traffic Control Management

## **6.2.2 Paving Restoration**

Pavement restoration will be consistent with the Street Moratoriums and Paving Conflicts. During the design phase, the Overall Condition Index (OCI) pavement ratings can be revisited based on thorough site visits as part of the design process. Water and Sewer line trenches in Asphalt Concrete Pavement will be restored in accordance with City Standards (SDG-107). Slurry seal will be furnished and installed as required per the Whitebook 302-4.1 of the 2015 City Whitebook.

According to the City-provided Design OCI Index Map in the Bridging Documents, the conditions of the asphalt concrete pavement for the maps is shown below. However, based on multiple site visits and photography of the pavement conditions, some of the maps’ ratings should be reconsidered during the design phase. Differences are noted below in red. See Appendix C for paving exhibit.

Map Number	Community	Location	OCI Rating	Site Visit Opinion
1	Torrey Pines	Via De La Valle	Acceptable	Acceptable
2	Clairemont Mesa	Clairemont Mesa	Fair	Fair
3	Pacific Beach, Clairemont Mesa	Garnet / Moraga	Fair / Acceptable	Acceptable / Poor
4	Serra Mesa	Hurlbut Street	Acceptable	Fair
5	Mission Valley	Camino De La Siesta	None	Poor
6	Greater Golden Hill	B Street, 20 <sup>th</sup> Street	Acceptable	Poor
7	Skyline Paradise Hills	Saipan Drive	Acceptable / Poor	Fair / Acceptable

Maps 3, 5, and 6 have pavements in worse condition than indicated in the RFP, while Maps 4 and 7 are in better condition.

A portion B Street on Map 6 has a steep slope with an existing Portland cement concrete (PCC) pavement, the trench patching will be in accordance with City guidelines.

Applicable City of San Diego’s Standard Drawings for Public Works Construction (2016 Edition) are as follows:

- SDG-107
- SDG-108
- SDG-112
- SDG-113
- SDW-110

Following this work, painted traffic striping and thermoplastic designations, markings, and markers will be installed in accordance with City Standards and Specifications.

### 6.2.3 Water Highlining Plan

See Water Highline discussion in Section 7.1.1 Construction Approach and Methods.

### 6.2.4 Phasing of Design and Construction of Each Site Separately


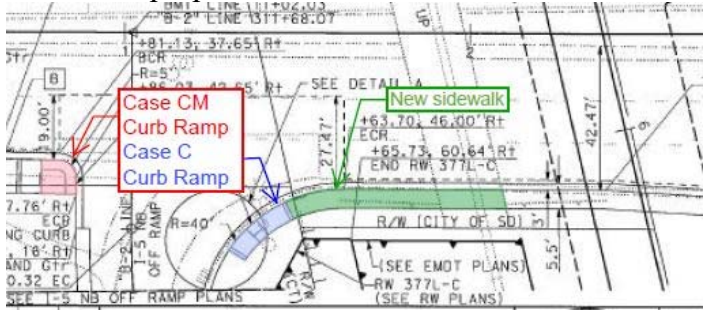
See Section 7.1.8 for Phasing Discussion

### 6.2.5 Curb Ramp Installation and Installation

Curb ramp design will vary. Locations with significant physical constraints will require more detail than those with less constrained, traditional locations. The team has developed recommendations in this that should be discussed at the kick-off meeting to be incorporated at the 30-percent design submittal stage. Any constraints preventing the installation of a ramp will be documented and depicted with annotated photographs and maps identifying physical constraints, historic stamps to be replaced, and ADA-compliant paths of travel.

The Access Law Design Compliance Memorandum (ADA Memorandum) provided with the RFP is dated October 13, 2016. Therefore, ramps in good condition with detectable warning

tiles (DWTs) are not required to be replaced as part of the Project. Based on our individual field investigation, we propose the following notes and modifications to the ADA Memorandum.

Map	Location	Description
1	Intersection of Via De La Valle and Jimmy Durante Boulevard	The replacement water main does enter into or cross this intersection.
1	Entrance to Fairgrounds	 <p>ADA ramps are currently being constructed at this site. We have not included the cost to replace these in our price proposal.</p>
2	Shopping Center Access	Per Gary Pence, pedestrian barriers are required and should direct the pedestrians to a legal crossing.
2	Frink Avenue and Diane Avenue Intersections	Clairemont Mesa Boulevard is in fair condition. Only trench patch and slurry seal are required to connect to the existing water mains. With slurry seal improvements, only one (1) crosswalk at each intersection needs to be restriped.
3	Opposite Santa Fe Street	<p>The ADA Memorandum calls for curb ramp at the SW corner and sidewalk improvements in this reach. The Mid-Coast Corridor Transit Project is constructing new curb ramps and sidewalk improvements. Therefore, we have not included these upgrades in our proposal.</p> 
4	Hurlbut Street and Afton Road	Ramp #4 is currently a C1 type ramp with potential ponding issues. If Ramp #4 is to be replaced, the existing retaining wall will encroach on the ROW. Any improvements within existing City ROW that need to be demolished will be noted on the plans.
5	Camino De La Siesta and Camino De La Reina	The replacement water main does not enter into or cross this intersection, and Camino De La Siesta is in fair condition. Trench patch restoration and slurry seal only will be used.
6	B and 19 <sup>th</sup> St	New curb ramps have already been installed at NE and entrance to the City facilities (Item 17.3 of ADA Memorandum) therefore we have not included the cost for new ramps

Map	Location	Description
6	B and 20 <sup>th</sup> St	New curb ramp has been installed at the entrance to City facilities (#4 on Item 18.1 of ADA Memorandum) therefore we have not included the cost for new ramps in our price proposal.

### 6.2.6 Phasing and Coordination with Adjacent Projects

Orion has identified several projects in the area that will need coordination throughout design and construction of the Group A Project. We have reviewed RFP Attachment E Section 2-14.3 and the City’s CIP Project Map Viewer.

These projects will be monitored closely for potential impacts throughout the project life. Orion will request the schedules from each of these projects so that field work can be coordinated before there is a conflict. During the construction process, there will be additional coordination with the adjacent projects and City staff to ensure there are no conflicts with Construction Schedules, Traffic Control Impacts, or Community Impacts.

### 6.2.7 Phasing and Coordination with Other Agencies

The following section identifies the stakeholders for each Map, stakeholder concerns and permits required. Map 1 is presented separately due to the Del Mar Fairgrounds’ events impacting the construction schedule and framework. Maps 2-7 are presented collectively in a separate table.

Separate sections for Caltrans, Metropolitan Transit System (MTS), and North Coast Transit District (NCTD) are presented subsequently for permitting.

#### Map 1

This replacement water main is an emergency fire connection from the Santa Fe Irrigation District that provides additional water to the Del Mar Fairgrounds. This portion of the Project involves several stakeholders whom we have summarized in the table below. The Del Mar Fairgrounds itself, as an individual property, is owned and operated by the State of California’s 22<sup>nd</sup> District Agricultural Association (22<sup>nd</sup> DAA).

Stakeholder	Issue	Permit/Easement
Santa Fe Irrigation District (SFID)	Connection to the emergency waterline	None. Connection with SFID for coordination.
22 <sup>nd</sup> District Agricultural Association (22 <sup>nd</sup> DAA)	Del Mar Fairgrounds access	Permission to enter and work within the City easement and need to coordinate with timing of Del Mar events
City of Del Mar	Jimmy Durante Boulevard	Encroachment Permit to work in the street and for traffic control
Caltrans (see section below)	NB on-ramp to I-5 from Via De La Valle, and SB off-ramp from Via De La Valle	Encroachment Permit for working within ROW for traffic control.







The Del Mar Fairgrounds is the stakeholder with the most schedule constraints due to the packed calendar of events. Notable events include:




- Del Mar Fair – June – 4<sup>th</sup> July
- Del Mar Thoroughbred Club – mid-July to Labor Day
- Kaboo Music Festival - September
- Scream Zone – October
- Del Mar Thoroughbred Club – November
- Christmas Lights – December
- Staff at the Fairgrounds indicated that construction activities during January and February would probably be the least impactful to Del Mar events.

**Maps 2 - 7**

The stakeholders for Maps 2 – 7 are identified in the table below.

Map	Stakeholder	Issue	Permit/Easement
2	Boys and Girls Club of America	Hours of Operation (Wed: 12-6) (M, T, Th, F: 2-6)	None. Be mindful of operating hours.
2	Diane Village Shopping Center	Hours of Operation and Ingress/Egress	None.
3	Caltrans (see section below) 	Interstate 5 overpass above Balboa Avenue, NB off-ramp to Balboa Avenue and SB on-ramp from Garnet Avenue	Encroachment Permit for working within ROW for traffic control.
3	MTS 	Overhead Mid-Coast Trolley Rail over Balboa Avenue and utility impacts	Encroachment Permit for traffic control, coordination with waterline improvements
3	Private Residences (3340 and 3360 Mount Laurence Drive)	Private Property	Permit to Do Work on Private Property
3	NCTD 	Overhead rail over Balboa Avenue	Overhead Rail – Right of Entry Permit
4	Angier Elementary School (Traditional Schedule)	Hours of Operation M, Tu, Thu, Fri: 9:10 – 3:55 Wed: 9:10 – 1:00	None. Be mindful of operating hours.
4	Cabrillo Heights Park	On-street Parking	None.
4	Door of Hope Church	In immediate vicinity	None.
4	Patio Village Apartments	On street parking	None.
5	Businesses along Camino De La Siesta	Traffic/parking/business access	None.
5	Caltrans (see section below) 	EB on-ramp to I-8.	Encroachment Permit for working within ROW for traffic control.
6	City of San Diego Facilities Department	Hours of Operation, business access	None. Be mindful of operating hours
6	20 <sup>th</sup> Street	Street Parking	None



6	Caltrans (see section below) 	I-5 NB on-ramp from B Street I-5 NB off-ramp to B-Street and Pershing Drive	Encroachment Permit for working within ROW for traffic control.
7	Businesses along Saipan Drive	Business accessibility	None.

### Caltrans

For any construction or work activities within the Caltrans right-of-way (ROW), including the air space and below overpasses, an Encroachment Permit will be required. The Caltrans Encroachment Permit Manual contains the requirements for obtaining the Permit.



Map No.	Impact to Caltrans	Actions
1	Although water main replacement is not within Caltrans ROW, the required traffic control will extend to on- and off-ramps on north-side of Via De La Valle	Meet with Caltrans to discuss requirements alignment and traffic control. Submit Encroachment Permit application.
3, 5, 6	Portions of the water main/sewer main replacement will be within the Caltrans ROW.	

### North Coast Transit District (NCTD)

The work at Map 3 will be within the NCTD ROW will not impact rail operations since the rail is elevated. A Right-of-Entry Permit will be required, but no additional requirements are anticipated since there are no impacts.



### Metropolitan Transit System (MTS)



Policy and Procedures No. 50 of the MTS sets forth the requirements for working within the MTS right-of-way. Right-of-Entry (ROE) Permits will be required when entering the MTS ROW, including air space. Design drawings and specifications will require MTS review and approval.

The work at Map 3 is within the MTS ROW. The Mid-Coast Trolley is currently under construction at Balboa Avenue, and as part of the construction of the overhead rail, utilities are being relocated/abandoned. All new construction will be coordinated with any new improvements being installed by the MCTC project.

### 6.2.8 Storm Water Pollution Control Best Management Practices

The Group A project will require a Water Pollution Control Plan (WPCP) at seven sites. The WPCP will be prepared specifically for each site, and it will incorporate the best management practices and guidelines in the document. Typical BMP's in the WPCP include: storm drain inlet protection devices, silt fences, gravel bag check Dams, straw wattles, concrete wash outs, secondary containment for our sanitary facilities, solid waste management, equipment main and fueling protection, wind protection, stock pile covers, and any other items required by the specific weather conditions.

### **6.2.9 Subsurface Investigation and Geotechnical Work**

During the design phase, the team will also review all existing geotechnical data in the project area and develop written a report which will include:

- Subsurface conditions along the alignments
- Excavation conditions and the potential for encountering difficult excavation conditions and soft or loose, unstable soils
- Allowable temporary excavation side slopes and the necessity for shoring
- Lateral loads on shoring, if needed
- Support for the pipeline
- Potential pipeline settlements
- Appropriate types of bedding and backfill materials as well as placement and compaction procedures
- Suitability of excavated materials for use as bedding and backfill

### **6.2.10 Proposed Design Schedule**

See Overall Project Design and Construction Schedule in Appendix B.

### **6.2.11 Permits**

See section 6.2.7 above for complete permit write-up.

### **6.2.12 Design QA/QC Approach**

Heidi Andrews will serve as the Team’s overall Project QA/QC Manager and Construction Quality Control. Heidi will coordinate with Alex Yescas and Patrick Garner to integrate the design review process into a project-wide quality control plan. As Orion’s project QA/QC Manager, Heidi will report directly to Jason Danks and will be responsible for the oversight of the entire design and construction process and its conformity to the contract documents.

Alex will be responsible for the oversight of the design process and its conformity to the contract documents. Through each stage of the design process, he will coordinate with the discipline reviewers ensuring that each discipline and cross-discipline has been reviewed and signed off. He will coordinate with the design discipline leaders to ensure that they included all items listed in “Attachment A,” Section 29, Design Submittals, of the RFP.

Once the design packages are ready for delivery to the City, Heidi will independently review the packages to certify that the entire submittal package is in conformance with the contract documents. During the Construction Phase, Heidi will confirm that construction submittals are received, reviewed and approved. Heidi will submit and track RFIs and responses, manage permits, and confirm construction is in conformance with the contract documents.

## Section 7: Construction Plan

---

### 7.1 Proposed Construction Plan

The construction plan for the Design-Build Water Main and Sewer Replacement Group A Project is based on the Orion team's complete understanding of the project goals and our knowledge and neighborhood-specific experience executing design-build projects involving water and sewer main replacement.

Orion will operate as the Design Builder, accepting full responsibility for the overall design, construction, quality, cost, and schedule. The single point of contact for the city staff will be our Project Manager, Jason Danks. To properly manage this design-build project, Orion will maintain control of the schedule and procurement as described in this document. Orion will implement an aggressive quality assurance/quality control program for all phases of design, construction, permitting, and commissioning, led by Heidi Andrews.

All major correspondence between team members will be routed through Jason Danks. This communication structure allows Jason to monitor the progress of each construction task within the project scope and keeps the project on task while taking the necessary steps to stay on schedule. Our Construction Manager, Jason Arme, will be onsite daily and will be responsible for the overall construction and safety for the project. Our experienced superintendent, Scott Vargas, who has previously completed numerous City group sewer and water main replacements, will lead the project craft workers.

#### 7.1.1 Construction Approach and Methods

The construction approach follows the guidelines outlined in the RFP and provides enhancement where applicable to minimize the impact to the surrounding neighborhood while constructing in a safe, clean, and efficient manner.

The following Orion crew types will be on site during this project:

- Design Pothole Crew
- High Line Installation Crew
- Construction Pothole Crew
- Water Pipeline Installation Crew(s)
- Sewer Line Installation Crew
- Asphalt Paving Crew
- Cleanup/De-Mob Crew
- Emergency Response Team

Orion will utilize its local experience in fully implementing the latest Greenbook and Whitebook standards to the project. Orion's long working history with both the City and the designers will allow it to incorporate any requirements and nuances of the City Sewer System into the design early in its concept. Orion intends to follow the requisite codes, standards, and details outlined below:

### Water Systems

- Pipe Bedding and Trench Backfill for Potable Water Mains, per SDW-110
- Thrust Blocks and Anchor Installations, per SDW-151
- Gate Wells and Valves, per SDW-152 through SDW-154
- Fire Hydrants, per SDW-104
- Air Valves, per SDW-158 through SDW-160 (as appropriate)
- Blow Offs, per SDW-143 through SDW-146 (as appropriate)
- Water Services, per SDW-149 through SDW-150
- Meter Boxes, per SDW-134 through SDW-137

### Sewer Systems

- Pipe Bedding and Trench Backfill for Sewer, per SDS-110
- Manholes, per SDS-106 through SDS-108 (as appropriate)
- Sewer Laterals, per SDS-102 through SDS-105

## Site Specific Construction Analysis

### *Map 1 – Jimmy Durante Blvd, Del Mar*

The traffic control required to perform this work will consist of several different set ups in order the cross these busy streets. The work sequence will be dictated by the traffic control plans required to shut down the traffic lanes and create safe work zones.

During the pre-bid job walks, we spoke with the onsite Fairgrounds Plumbing Supervisor, Sean Lightholder. We discussed access procedures and work staging locations required to tie into their existing water feed. The connection vault is located behind the Fairgrounds fence south of the access driveway. Discussions also included specific times of day and year to perform this work, so that impacts both during the pipeline installation and tie-in outages are minimized.

The tie in point locations will be potholed to verify depths and OD of the existing pipe. Once the tie-in points are verified, the new alignment will be surveyed. Then installation of the new section



Replace in Place Pipeline Install

of the pipeline will begin and follow a dig/lay/backfill. This allows us to close the trenches each day and not leave any open trenches in this area due to the high traffic flows. Orion's Zero Clearance excavators will be used for this work due to the limited work zones between active lanes of traffic. The trench surface will be finished off each work shift with a combination of steel plates and cold mix to open the up street. Then pressure testing, flushing, and chlorination will be performed prior to the City to taking Bacteriological (or Bac-T) test samples.

Once Bac-T tests have passed, our staff and the community liaison will work with the City Water Operations crews to properly notify the affected customers the upcoming outage needed to perform the tie-ins on the new section of pipe. Trenches will be deep lift asphalt patched scheduled for the slurry or overlay work. Pedestrian Ramps will be complete before final asphalt. Lane striping and perform a final site cleanup will be completed before demobilization from the site.

**Map 2 – Clairemont Mesa Blvd**

Map 2 is typical replace in place waterline construction. A 2” high line will be installed on each side of the street to feed the customers for the 16” PVC water main replacement. During our job walk, we identified a fire hydrant located on the shopping center parking lot that to back feed the from the highline. This ensures that the private main system in the shopping center will be in service for the business during construction.

The existing water main will be isolated/cut and plugged at the locations prescribed in the RFP. Cut and Plugs will require a water outage that will be closely coordinated with the Water Operations department. Notices will be passed out to all affected customers five days in advance of the outage. Once completed, the remove and replace of the 16” watermain will be started including the fire hydrants and water services.



High-lining on a Residential Street

The new water main will be pressure tested, flushed, and chlorinated in preparation for Bac-T testing. Tie-Ins will be scheduled five days after the Bac-T tests are passed. The high line system will be removed and water services transferred to the new main. Trench patching will be performed in conjunction with Ped Ramp construction. Final activities will include slurry seal or asphalt overlay.

**Map 3 – Garnet Ave and Moraga Ave to Mt Laurence Dr.**

The sewer main replacement will require a sewer bypass during construction. The depth of the excavation will require shoring be in place for worker safety. The trench will be patched with deep lift asphalt. After the sewer main and manhole replacement is complete, the larger machines will be demobilized for smaller, waterline construction equipment. This will minimize the impacts to the surrounding neighborhood.

The 16” CI water line replacement on Garnet includes a small section of 8” water main that feeds the hotels and businesses off Albuquerque St and De Soto St. To keep those customers in service, this section will be completed in two phases. Phase 1 will consist of water main construction up to the new “Tee.” The Cut and plug will be placed 10’ away from the new “Tee” with appropriate valving to allow us to move onto phase two of Garnet Ave while keeping the large diameter customers in service. Crews will highline both phases to feed the customers along Garnet Ave.



Deep lift trench patching will immediately follow the pipeline installation and tie-ins. Our SLBE subcontractors will be scheduled to complete the asphalt overlay/slurry seal work/stripping work completing this Map.

***Map 4 – Hurlbut St.***

This location includes sewer main ranging from 9 to 15 feet deep. Shoring will be needed for worker protection, support of the street, and existing utilities in the area. The Traditional dig/lay/backfill operation will occur every day and be completed using a combination of steel plates and cold mix to finish off the surface to open it back to traffic each night. The new sewer main will include a CCTV video for acceptance with copies provided to the City.

The Water main on Hurlbut St will be downsized from an existing 16” water main to a new 12” water main. Per Addendum #4, the routing of the new water main will go toward Kearney Villa Rd. This route includes a few affected water services that will be highlined during construction.

***Map 5 – Camino De La Siesta and Interstate 8***

The location includes water main replacement and re-routing which allows for the watermain under Interstate 8 Freeway to be abandoned. The existing 16” main on Camino De La Siesta will be replaced with a new 12” PVC C-900 water main. Highline will be necessary for water services in the area. The highline will be fed from hydrants on Camino De La Siesta and hydrants on Camino Del Rio North. The section of watermain that runs under Interstate 8 Freeway will be abandoned with permanent cut and plugs and grout fill.

The distribution main on Camino Del Rio South will be downsized from 16” to 12”. The Orion/Harris team has come up with a concept watermain routing for this area described in the technical approach section that will keep the construction in this area from impacting the Freeway on Ramp. Access to the work area under the overpass will be through a section of fencing on Camino Del Rio South. Permits from Cal Trans will be procured for traffic control, inspection of the work being performed, and repairs made to the fencing.

Both sections of work will be coordinated and constructed at the same time so that the shutdown will be properly coordinated with the Water Operations Department. During the installation of the permanent cut and plugs, provisions will be made to grout filling of the 16” AC water main running under the freeway to complete the abandonment. The site will be completed with asphalt trench repair, pedestrian ramps, and striping.

**Map 6 – B St and 20<sup>th</sup> St**

This site is located in the downtown area close to the freeway on ramp to I-5 at Pershing Dr and B St. The work in the intersection of B Street and Pershing Dr / 19<sup>th</sup> St may require a traffic control permit from Cal Trans as it may effect traffic flowing toward the on-ramp. This work area is also near to the City’s Operation Yard. Construction will be coordinated so that the impacts are kept to a minimum.



City Operations Station at B Street

The sewer main will be replaced from the intersection of B St and Pershing Dr heading east to 20<sup>th</sup> St. It also will include replacement down 20<sup>th</sup> St to the first manhole. This area will be replaced in place and will require sewer bypasses be installed daily while the replacement work is being performed. The manhole in the intersection of B St and Pershing Dr. is a Drop manhole with a main that runs in from the North East will need to be bypassed in order to complete the scope work.

The watermain runs from the intersection of B Street and Pershing Dr / 19<sup>th</sup> St to 22<sup>nd</sup> St. Per addendum #4, we will connect to the existing cross and valves at 19<sup>th</sup> St. The connection to the existing pipe will be made 10 feet back so that the next contractor has the appropriate access to dig, remove, and replace the T and valves. The connection at 22<sup>nd</sup> St. will be to the the new valve that was already installed as part of another project. Highline will be required for the affected water services in the area. A section of the street is concrete and get restored in kind.

**Map 7 – Saipan Dr.**

The short segment of 16” CI water replacement on Saipan Dr. lends itself to be completed like a slightly larger “Tie-In,” rather than a conventional isolate, replace, test, tie in in sequence. This approach will result in a single notice and shutdown to any affected customers in the area rather than two caused with the conventional approach.

The OD of the existing connection point will be verified by potholing in order to procure the correct material



16" Replace in Place Pipe

for a single shutdown. During material procurement, our staff and public liaison send the five-day notice to the council and all affected residents. Once the shutdown date is scheduled, the site will be pre-dug to minimize outage time. On the scheduled shutdown date, City water operations crews will close their isolation valves and depressurize the system by opening blow offs or hydrants close to the outage area. The existing pipe will be cut out of the way to allow for final draining and dewatering. The new pipe and fittings will be installed and rinsed with a chlorine solution for disinfection. Once the work has been backfilled, City Operations Staff will re-energize the line and bring the customers back into service. Restoration activities will directly follow the pipeline work.

### **7.1.2 Plan for Operation of Facility during Construction**

Orion is experienced in the construction of Water Distribution Systems and Sewer Line Construction, both of which are prescribed in the RFP. Orion has a large inventory of company-owned high-line pipe and fittings, temporary pipe, and equipment available which can be mobilized immediately. This will ensure the full-time operation of each City facility or water pipeline throughout the course of construction. Orion will take all precautions necessary to ensure that no damage or unscheduled shutdowns occur to any adjacent facilities including piping, utilities, traffic signals, and roads. Underground Service Alert will be contacted for verification and location of all utilities and will maintain notification current throughout the project. Construction operations will be coordinated to ensure efficient and orderly installation of each phase of the work in a sequence that will obtain the best results and the earliest completion each phase and that of the overall project. We will have the correct sizes of repair couplings and pipe on hand for fast repairs resulting from unintended emergency utility strikes. They will be stocked onsite; the final quantity and selection is based on a review of the as-built drawings and input from City field operations staff.

Before the transferring of water services (none anticipated at this stage) or shutting down of water mains, Orion will provide notices to all affected businesses and residences. 24-48 hours before the shutdown, Orion crews will go door-to-door through the affected areas and provide final notices. Fire protection will be coordinated with the fire marshal, as required.

The operation of the Sewer System will be achieved using Temporary Sewer Bypassing. Orion owns an extensive inventory of Sewer Bypass pumps and piping. Each day of Sewer Line replacement the sewage flows will continue uninterrupted operation through the sewer bypass systems. The Bypass will be set up at the beginning of each shift, and the flows will be reinstated at the end of the shift. Bypasses will be monitored full time while in operation and back up pumps and piping will be dispatched to the project in the event of an emergency or unplanned situations.

### **7.1.3 Plan for Phasing of Construction Activities**

Construction of each site will proceed in a linear manner depending upon crew availability and permitting restrictions. Crews will complete all construction activities at each project location before demobilizing and moving to the next phase.

### **7.1.4 General Plan for Functional Testing and Start-Up**

Orion will test each section of water main to the city standards included in the White Book Section 306-1.4.5 Water Pressure Test. Flushing and chlorination will proceed in accordance with AWWA



C651 and State Health Department Requirements. We will exercise special care in flushing chlorinated water, so that all flushing water is de-chlorinated before discharge utilizing de-chlorination devices and tablets with continuous monitoring of chlorine levels by in-house Orion certified chemists. The discharge water will be compliant with the Regional Water Quality Control Board Order No. R9-2013-0001, R9-2015-0001, and R9-2015-0100. Orion will coordinate and schedule final laboratory testing of the pipeline with City Staff. Once the City certifies all bacteriological tests (bac-t) have passed, each section of water main will be tied back into service within 15 days.

The new gravity sewer pipelines will be videotaped, and Wayne Ball/mandrel tested, in accordance with the Greenbook 306-1.2.12.2. This will ensure that newly installed gravity mains do not exceed the maximum allowable deflection. A DVD of the video will be provided to the City upon completion.

Repairs during the one-year warranty period will be Orion's responsibility. As in the past, Orion will support City staff in their investigations of potential defects and provide assistance to identify their causation and apportionment of liability. With over 25 years and numerous successful projects with the City, warranty repairs in or out of the contract warranty period have always been dealt with to the City's satisfaction with prompt attention to minimize liability from third parties.

#### **7.1.5 Proposed Safety Program**

The Orion team will prepare a written site-specific Safety Plan/Illness and Injury Prevention Program for submission to the City prior to starting construction. Our Safety Plan will include all applicable requirements of CAL/OSHA. Our Safety Manager will consult with our Superintendent to define the scope and sequence of work and will develop specific Job Task Analyses (JTA's) to identify the sequence of events, associated hazards, and implement control measures. These are then used as training tools to educate the field team in onsite safety as it relates to them.

Along with the JTA's that guide safety of the construction crews, the safety of the public is a key factor in planning a safe job site for this project. Public safety will start with the community outreach process, so the project team understands safety concerns coming from the neighborhood. Important safety items that we have planned for in our proposed construction:

- Identify pedestrian traffic and walkways around work zones
- Bicycle Safety and alternative safe passages around the work zones for cyclists
- Resident safety and safe travel to and from driveways
- Special attention will be taken in addressing continued access for special needs residents
- Coordination with adjacent projects, so conflicts do not impact the public safety
- Special attention to safe travel routes for children

Orion will utilize planning/scheduling meetings with field staff and subcontractors to review the safety strategies, review JTAs, identify possible hazards, and coordinate work activities. Informal meetings are used at the beginning of each day for supervisors to emphasize safety topics about the days scheduled work, using the JTAs as a training tool.

Personal protective equipment is provided to all workers in compliance with all OSHA regulations. The use of high visibility safety vests, ANSI approved hard hats, safety glasses, gloves, and work boots are the minimum PPE required for construction activity. There is also extra equipment on site for temporary use by visitors.

New employees receive a safety orientation and training prior to starting work. Apprentices receive special attention because of their relative unfamiliarity with the overall construction process. We have found that utilizing these practices encourages long-term employees to assist new employees in the safety practices of the company. We also designate a key craft worker on the job as a “safety monitor” responsible for assuring safe working conditions. This individual is empowered to correct any deficiencies in safe work practices.

Additionally, all Orion managers, engineers, superintendents, foremen, and crew leaders receive regular training in all aspects of safety such as fall prevention, scaffolding, hazardous material, traffic safety, rigger training, trench protection, and confined space.

### **7.1.6 Proposed Emergency Response Plan**

Prior to the start of construction, Orion will develop and submit to the City, for review and approval, a project-specific written Emergency Response Plan. Orion will observe and comply with the City’s policy of zero hazardous material spills. The Emergency Response Plan shall be developed to respond to any construction related spill(s). This plan will include identification of all nearby environmentally-sensitive areas such as waterways, channels, catch basins and entrances to existing underground storm drains that could be impacted. An emergency response unit will be stationed near the job site. It is comprised of equipment and trained personnel to be immediately dispatched in the event of a spill.

The emergency response unit can be dispatched to the site 24 hours a day seven days a week including weekends and holidays. Orion will designate primary and secondary representatives with their respective phone numbers, and mobile phone numbers. Orion’s representatives will be accessible and available at all times to respond immediately to any spill event.

In the event of a utility strike, Orion will:

- Secure the area, block access to all unauthorized people.
- Notify the utility.
- Provide a support role to the utility company repair people upon arrival.
- Note: Orion Construction has personnel available 24/7 in the event of emergency utility issues. Orion will keep an on-site assortment of various size pipe repair couplings in the case of such an issue.

Pre-planning:

- Perform a JHA (Job Hazard Analysis) for each expected utility emergency.
- Know where shut-off valves (if applicable) are for each utility.
- Locate utility as best as possible before digging.

Orion is also a listed Emergency contractor for the City of San Diego, and our crews will stay and assist at the City's request during any utility type emergency where our services can be useful, or we can prevent further damage to the surrounding areas.

### **7.1.7 Water Highlining Plan for Each Site**

See Section 7.1.1 (Construction Approach and Methods) for a detailed description of water highlining at each site.

### **7.1.8 Phasing Each Site Separately**

See section 7.1.1 and 7.1.3 for phasing discussion.

### **7.1.9 Proposed Construction Schedule**

Please see Appendix B for Project Schedule.

### **7.1.10 Traffic Control Management**

#### ***Map 1 – Jimmy Durante Blvd and Via De La Valle***

Traffic control for this section includes a series of lane closures and traffic shifts. To safely cross Via De La Valle, traffic will be condensed down to 1 lane and pushed to the south or north of the work zones so that excavations can occur across the traffic lanes. During the work in the North bound turn lane from Jimmy Durante Blvd onto Via De La Valle, the area can be closed pushing vehicles to the full intersection. For the work on Jimmy Durante Blvd, traffic will be condensed into one southbound lane and pushing traffic flow to the east or west so that two lanes are available for the work zone. The work required to enter the Del Mar Horse property can be done from with a single lane shift against the curb in the furthest west bound lane.

#### ***Map 2 – Clairemont Mesa Blvd***

The street is four lanes wide in this area with a center turn lane. The watermain is located on the south side of Clairemont Mesa Blvd in the East bound lanes. Both lanes will be closed to create the work zone, and 2-way traffic flow will be pushed over to the North side of the street. An alternate traffic control method will be to detour westbound traffic around the block on Diane Ave, to Conrad Ave, to Frink Ave, then back to Clairemont Mesa Blvd. A separate traffic plan will be developed for the 8" water main and water services that cross Clairemont Mesa Blvd to the North.

#### ***Map 3 – Garnet Ave & Garnet & Moraga Ave***

To provide access to the sewer and the watermain on the south side of Garnet Ave, traffic flows will be routed to the north bound side of the street. Sections of the median may be removed to shift traffic from one side of the street to the other. This strategy will allow two-way traffic during construction. Lane shifts will be used to control the traffic to cross the remainder of Garnet.

The work on Moraga will require two-way traffic to be shifted to the West closing the for the work to occur in the eastern lanes. The work zone on Garnet Ave headed west from Moraga Ave will require a road closure and detour around this area in order to install the new section of pipe. There may be an option to route two-way traffic over to the south side of Garnet in this area in order to maintain two way traffic with no detours.

***Map 4 – Hurlbut St.***

Due to the proximity to Angier’s Elementary School, construction at this location will be coordinated during Summer Break. The sewer main is located in the center of the street so Hurlbut St. will be closed to thru traffic.

***Map 5 – Camino De La Siesta and Camino Del Rio South***

During the replacement of the watermain on Camino De La Siesta a section of the road will be closed to thru traffic with detours onto Camino Del Arroyo St. Due to the multiple businesses in this area, we will have flagmen dedicated to safely directing patrons to the business driveways.

The work on Camino Del Rio South will be done from the shoulder. The Cal Trans fence will be temporarily removed for access. The water main and valves are located under the on-ramp and coordination with Cal Trans will be included for any traffic control requirements and permitting.

***Map 6 - B St***

The water and sewer main replacements are located near the on-ramp to Freeway 5. We will coordinate with Cal Trans for traffic control requirements for work zone access at the intersection of B St and 19<sup>th</sup> St. The work on B St can be controlled by detouring the traffic around the block up to the net block. A similar approach can be used for the sewer main replacement work on B St by closing the street to Thru Traffic and detouring around to the next block.

***Map 7 – Saipan Dr.***

The small section of watermain crosses both lanes of traffic. This section of Saipan Dr. will be closed with traffic detours to Calle Tortuosa Dr. The road will be closed to thru traffic. But access will be provided for customer driveways to the maximum extent possible.

**7.1.11 Community Impact**

See Section 8 for complete Community Outreach and Impact discussion.

**7.2 Project Coordination**

Project coordination will remain consistent throughout the design and construction phases, both of which benefit from the Design-Build approach since the designer and contractor project staff are actively involved in both phases. With the construction personnel involved from the very outset of the design, Orion ensures the maximum level of coordination between the design and field construction teams, ensuring all the benefits of this collaboration are incorporated into the project.

**7.2.1 Coordination Process**

The first step to efficient and effective coordination is to focus the line of communication between the relevant people for the project team to hold these people accountable for the vertical communication throughout the team. This system allows each team member to know: exactly to whom they report, what level of decision-making authority they possess, and what information is to be included in their reports. The second key element of this system is redundancy at each team level, so critical communication or coordination items are not delayed due to the unavailability of the primary contact at a given moment.

The Orion management team for this project has been assembled specifically to function in this manner. All communication between the City and the Orion team will be through Jason Danks, who will serve as the primary contact. Once the project is awarded, Orion will hold a Design-Build partnering/kick-off meeting. The goal of this meeting is to ensure that each team member from the City and Orion is personally acquainted with each other and that all expectations are understood. During this meeting, the goals of each team will be discussed, and the critical aspects of the project will be outlined. Minutes of this meeting will be prepared and distributed to all attendees for review and comment. Follow-up sessions may be scheduled as well, on an as-needed basis. The Construction Manager, Jason Arme, will be responsible for all daily construction activities and coordination on the project. He will be utilizing a three-week look ahead to plan each activity and coordinate with residents, subcontractors, and craftsman to sequence the work to minimized impacts to residents.

### **7.2.2 Coordination with Government Agencies and Other Entities**

Prior to the start of construction, Jason Danks and Jason Arme will personally coordinate early start activities with appropriate government agencies and entities such as transit, fire, police and waste disposal. They will review the project schedule, and three-week look ahead with these agencies to identify potential impacts and determine any project specific requirements not previously identified. During the preparatory phase, the work zones are delineated. Underground Service Alert is used to coordinate with the other utility owners while Orion's local community knowledge is used to identify individual neighborhood conflicts. This preparatory phase allows the City and Orion adequate time to respond to any specific site nuances. Once all affected parties have been notified and concerns resolved, the initial phase work begins. During this initial phase, Orion will be working closely with Water and Sewer Operations to ensure the community's needs are met efficiently. Follow-ups contact will be made to the identified stakeholders throughout the construction to ensure all parties are satisfied.

### **7.2.3 Design Coordination System**

Heidi Andrews, as Project QA/QC Manager, and Jason Arme, as the Construction Manager, will coordinate with Jason Danks to develop the project design and construction management plan. It will include the: Project Quality Control Plan, Basis of Design Report and Design Criteria, Communication Protocols, Permitting Plan, Construction Submittal Registry, and Design Submittal Review Process. The submittal registry will be used to confirm that the construction material submittals are in conformance with the construction documents. During the design phase, Orion will call for utility mark outs and perform potholing to minimize potential conflicts during construction. During the design phase, private property agreements will be prepared and completed so that construction may proceed uninhibited once the final design has been accepted by the City. At the start of construction, Jason will call for a second utility mark out to ensure that no new utilities have been installed during the design phase. During construction, Jason will keep accurate records to confirm conformance with the design drawings and provide accurate as-built drawings.

### **7.2.4 Q&A Tracking System**

Orion will keep a detailed account of all field changes in a redline markup set of drawings and specifications. Questions and Answers through the Construction process will be managed by Heidi Andrews and documented and tracked as RFI's as a continuation of the Design development process to have a complete record through the life of the project. The RFI tracking and response

log will be reviewed by the City at the weekly construction meetings. All design changes will be incorporated into the as-built redline construction set.

Any questions resulting in design changes or a change in specifications will be drafted by the Field Team and reviewed by the DOR for submittal to the City. Once RFI's have been submitted to the City, they will be tracked on the project log. All responses will also be tracked on the project's redline markup as-built set. This red-line set, along with final as-built drawings, will be submitted to the City at the completion of construction.

### **7.2.5 Subcontractor Coordination System**

The project team and subcontractors presented in this document will be responsible for performing in both phases of design and construction of this project. In compliance with the City ECOP program and to continue to partner with local small and emerging local subcontractors, our coordination system begins at the time of bid preparation. This process pairs the best-qualified subcontractors with work that they can perform to or above City Standards within the project timelines.

Before construction, Orion will issue subcontracts, verify that insurance and bonds meet specification and provide work schedules to the different subcontractors that provide proper notice as to when each of the individual trades will be scheduled to be on site. With seven individual sites, Orion has staffed the project sufficiently that will allow us to work in close coordination with the subcontractor's availability and adjust the project schedule as necessary to achieve an even workflow for both parties. Before mobilization, and during construction, we will require the subcontractors to participate in our weekly production meetings. As construction proceeds, we will work closely with our small business/sub-contractor partners, to ensure that they can stay current with the City administrative reporting requirements. This relationship helps our sub-contractors avoid any payment delays ensuring a smooth project from start to completion.

### **7.3 Critical Path Schedule**

The Orion team will use Primavera Project Planner (P6) to develop and manage the Project CPM Schedule. The project CPM schedule will serve as a base line schedule from which work progress will be measured. Included in the CPM schedule, all Project Milestones outlined in this RFP will be identified, this includes critical activities that Orion anticipates performing and coordinating with others to complete the Project prior to the Final Completion Date. The schedule has a completion date 600 working days from NTP. The 30%, 60%, 100%, and Final design phases are shown as well as the City review and approval times of 20 working days for each phase.

Our overall Phasing and Schedule philosophy is one that maximizes flexibility by creating a single design package so that each site can be constructed independently from one another in any order, pursuant to subcontractor scheduling, site moratoriums, events, shutdowns, etc.

Appendix B provides a summary level critical path schedule.



## 7.4 Challenges/Issues

### *Caltrans permitting and Access*

Three locations (Map 1, Map 3, and Map 6) will require close coordination with Caltrans for encroachment permitting and access. The D/B team will begin the coordination process as early as the 30% design submittal to ensure that permitting does not negatively impact the overall schedule. The Orion DB team has extensive experience working within the Caltrans right of way on previous projects and is familiar with the processes and procedures required for obtaining encroachment permits.

### *Traffic Control in Heavily Trafficked Corridors*

Construction work for maps 1-6 will occur in high traffic areas and will require close coordination with the City traffic control department to develop traffic plans which minimize negative traffic impacts.

- Map 1 – Work near the Fairgrounds will be scheduled outside the summer months to avoid the heaviest traffic.
- Map 2 – Clairemont Mesa Blvd. serves as a major thoroughfare for businesses and residents.
- Map 3 – Garnet Ave serves as a major corridor for businesses. DB team will ensure access to businesses is maintained throughout construction duration.
- Map 4 – Angier Elementary School is adjacent to the work zone, and will require extra safety precautions. Traffic plans will be developed to reduce impacts during school drop off and pick up times.
- Map 5 – Camino de La Siesta and Camino Del Rio have businesses along the route. Orion will maintain access to businesses at all times.
- Map 6 – The City Operations yard is adjacent to the work zone. Construction crews will ensure that City crews have access to the yard at all times.

## 7.5 Cost Savings Measures

Orion has reviewed the RFP, bridging documents, and City guidelines and found potential cost saving measures.

### *Lining Sewers / Rehab Manholes*

Maps 3, 4, and 6 require sewer main and manhole replacement. Preliminary site investigations showed some sections of sewer main and manholes may be good candidates for CIPP lining. Sewer main and sewer manhole rehabilitation will be more cost effective and require less time than full replacement. Other benefits such as reduced traffic control and reduced impact to the construction site can be realized when using this trenchless method.

### *Expedited Design*

The design of the Group A project could utilize an expedited design schedule by skipping the 30% design and proceeding straight to a 60% design submittal. Because the pipe is replace-in-place, the information required for a 60% design can be captured in the first design submittal. This would reduce design review time for both the D/B team and the City review team as well as expediting the overall schedule.

## Section 8: Community Impact

---

### 8.1 Community Outreach and Public Relations Program

The Orion/Humanability team will implement a multi-faceted approach to community relations for the project, built upon the foundation established by the City of San Diego WHITEBOOK, 2015 Edition 7-16. We will develop a community relations plan for each of the seven project sites which will specify targeted stakeholders, key messages, deliverables, and timetables. It will incorporate materials for the City's website, public notices, tracking of inquiries, comments and concerns, presentations to the Community Planning Group, preparation of media items, participation in project team meetings, and regular project updates via newsletter, website or Email to key stakeholders. Orion/Humanability will identify community events that will be analyzed with the team to determine whether a presence at the events will help increase community awareness of the project or facilitate completion of the project. The team will contact project managers for concurrent public construction projects and organizers for events occurring during the construction window, to facilitate coordination and minimize impacts.

San Diego's 16 Inch and Larger CI Water Main and Sewer Replacement Group A (MACC Task number 07) impacts seven neighborhoods in six City Council Districts. Project locations impact the Del Mar Race venue and roads leading to the Del Mar Fairgrounds, the heavily traveled Clairemont Mesa Boulevard, Garnet Avenue, Balboa Avenue at Moraga, Camino de la Siesta, as well as ramps for State Road 163 and Interstate Highway 8. Other segments directly impact Angier Elementary School, Cabrillo Heights Park, the City's Operations Yard, commuters to City College, and a neighborhood boys and girls club in Clairemont Mesa. Retail impacts are expected for the Diane Shopping Center in Clairemont Mesa and at least two Mission Valley automobile dealerships. The alignments will impact several large multi-family residential complexes, the Ameritrade commercial building, and several hotels, as well as small retailers located adjacent to and in close vicinity to the pipeline alignments.

The D/B team has conducted an extensive survey of location data for the project. The team has thoroughly documented residential districts, business locations, sensitive environmental and recreation areas, schools, parks, and other potentially impacted resources, which are listed Section 7.9 – Residents and Visitors. Project impacts include noise, dust, traffic and parking restrictions to residents, small businesses and community members who utilize the schools and parks near the alignment.

Civic leaders with interest in the project include:

- Mayor Kevin Faulconer, and community representatives John Ly, Anthony George, and Darnisha Hunter
- District 1 City Councilmember Barbara Bry and community representative Daniel Orloff
- District 2 City Councilmember Lori Zapf and community representative James McGirk
- District 3 City Councilmember Chris Ward and community representatives Tyler Renner and Brittany Bailey
- District 4 City Councilmember Myrtle Cole and community representative Luis Natividad
- District 6 City Councilmember Chris Cate and community representative Dan Manley



- District 7 City Councilmember Scott Sherman and community representatives Cassandra Weinlein and Liz Saidkhanian
- The City's community planning groups for the neighborhoods of Torrey Pines, Clairemont Mesa, Pacific Beach, Serra Mesa, Mission Valley, Greater Golden Hill, and Skyline/Paradise Hills.

Impacted facilities and stakeholder agencies near the project include:

- 14 PK-12 schools, City College, and a Boys and Girls Club
- 17 places of worship
- 14 parks and recreation facilities, including Balboa Park
- Del Mar Race Track and Fairgrounds, the site of the San Diego County Fair, Del Mar Race Season, and the Kaboo Music Festival
- Four hotels, two shopping centers, two automobile dealers, four hotels, and a large commercial office building
- Montgomery Airfield, City Operations Yard, and San Diego Police Headquarters

## **8.2 Community Coordination**

The team evaluated the project and will plan around the summer construction moratorium for Location 3 (Garnet Avenue and Mission Bay Drive) listed in the Supplemental Special Provisions of the RFP. In areas with schools, we will schedule the construction outside the heavily impacted pickup/dropoff windows, as well as scheduling work during the summer months when schools are closed.

The D/B team will work in close coordination and cooperation with City Staff to allow public input during the design process, including presentations to impacted community groups early in the design process and before construction. The approach includes letters to impacted properties before the design presentations, in areas where trenching will impact surface streets. The team will also consult with City staff to determine whether focus meetings with interested groups of impacted stakeholders or individual outreach to community leaders and other stakeholders, will aid the City in assuring the design process meets the needs of the community.

Outreach materials to the community will reflect the project schedule, and door hangers will be used to keep the community informed when work resumes. Our crews and office staff will communicate with the residents and businesses in the area to incorporate their needs into our Community Relations Plan. All concerns will be tracked and logged to ensure coordination is consistent throughout the course of the project. This log will be updated on the Project Website and dedicated Project Facebook page.

## **8.3 Staging Area and Project Clean Up**

During construction in residential neighborhoods, Orion locates material staging areas such the minimum amount of disruption occurs and are in the least visible to the community. Staging areas are screened, kept clean and only include the necessities for the given area. Once completed, the staging area is thoroughly cleaned and moved to another location in the neighborhood so that one community member does not have the staging area near their home for the whole duration of the

project. Orion will coordinate with the city resident engineer to make sure that the proper permits for trailers and stationary equipment are in place.

*Project Clean-up*

Once the work is completed in each phase, we will perform a complete cleanup of that phase consisting of:

- Clean up and removal of all stockpiles.
- Clean up and removal of all trash (construction and lunch), daily.
- Relocation of equipment to a subsequent phase.
- Removal of USA mark outs.
- Final asphalt and pavement restorations.
- Removal of all traffic control, cones, and signs.

**8.4 Residents and Visitors**

The Orion/Humanability team conducted an extensive survey of location data for the project and thoroughly documented residential districts, business locations, sensitive environmental and recreation areas, schools, parks, and other potentially impacted resources at each of the seven project sites. As part of our proposal preparation, the team has identified the following schools, religious centers, and public buildings that will be affected by the project and will require continued coordination throughout the construction of the project:

<b>Map 1: Torrey Pines, Council District 1</b>		
<b>Churches</b>	<b>Major Events</b>	<b>Community Resources</b>
Calvary Lutheran Church	San Diego County Fair	Del Mar Fairgrounds and Racetracks
<b>Transportation MTS</b>	Kaboo Music Festival	Del Mar Golf Center
Green Line 101		Surf and Turf RV Park
Del Mar Fairgrounds Bus Station		Flower Hill Promenade
<b>Map 2: Clairemont Mesa, Council District 6</b>		
<b>Schools</b>	<b>Community Resources</b>	<b>Transportation MTS</b>
Hawthorne Elementary School	Boys and Girls Clubs	Blue Line 41,44
<b>Parks</b>	SDGE Innovation Center	Red 50
Marian Bear Memorial	Diane Shopping Center	
Tecolote Canyon Natural Preserve		
<b>Map 3: Pacific Beach and Clairemont Mesa</b>		
<b>Schools</b>	<b>Parks</b>	<b>Churches</b>
Clairemont High School	YMCA Skate Bike Park	Saint Marks United Methodist
Marston Middle School	South Clairemont Recreation Center	Community Christian Services
Whittier Elementary School	Rose Creek Trail	Igreja do Evangelho Quadrangular
<b>Community Resources</b>	<b>Transportation</b>	Christian Science Church
Electric Vehicle Charging Station	MTS Blue Line	
Camp Diego Canine Day Care & Boarding		
<b>Map 4: Serra Mesa, Council District 7</b>		
<b>Schools</b>	<b>Parks</b>	<b>Churches</b>
Angier Elementary School	Cabrillo Heights Park	Afghan Community Islamic Center
Kearney Mesa Montessori	<b>Community Resources</b>	Pacific Hope Church

Whittier Elementary School	Montgomery Field Airport	Door of Hope Christian Church
<b>Transportation</b>	Social Security Admin	Gracewave Church
MTS Blue Line – 25,928		
<b>Map 5: Mission Valley, Council District 7</b>		
<b>Schools</b>	<b>Community Resources</b>	Quality Suites Sea World
Mueller College Campus	Hilton San Diego Spa & Resort	TD Ameritrade
<b>Transportation</b>	La Quinta Inn & Suites	
MTS Blue Line – 6		
<b>Map 6: Greater Golden Hill, Council District 3</b>		
<b>Schools</b>	<b>Parks</b>	<b>Faith</b>
Garfield Senior High School	Balboa Park and Golf Course	San Diego Broadway Spanish Church
San Diego City College	Golden Hill Park and Recreation Center	Spanish Broadway Seven-Day Adventist Church
San Diego High School	Bennington Memorial Oak Grove Park	San Diego Japanese Christian Church
<b>Transportation</b>	Powerhouse Canyon Park	Our Lady of Angels Church
MTS Blue Line – 2, 280, 290,	<b>Community Resources</b>	
MTS Red Line – 20, 110	San Diego Police Headquarters	
Trolley – Orange Line, UCSD Blue Line	City Operations Yard	
<b>Map 7: Skyline/Paradise Hills, Council District 4</b>		
<b>Schools</b>	<b>Parks</b>	<b>Transportation MTS</b>
Perry Elementary School	Sky Harbor Park	Blue Line - 962, 967, 968
<b>Faith</b>	Bayview Hills Park & Recreation Center	Sky Harbor Park
Puritan Evangelical Church of America	Paradise Hills Park & Recreation Center	Bayview Hills Park & Recreation Center
New Jerusalem Fellowship Church	<b>Community Resources</b>	Paradise Hills Park & Recreation Center
New Life Christian Covenant Church	Big Time Liquor & Market	

## 8.5 Construction Mitigation Plan

Our Construction Mitigation Plan begins with hearing the concerns and needs of the community, as outlined in the Community Outreach and Coordination plans. Unobstructed access to the surrounding businesses and residents is the priority concern. This can be accomplished using trench plates across driveways or carefully planned excavations that only shut down half of a driveway at one time, always leaving access in and out. While working in these areas, only minimum necessary equipment and staging will be used. All other equipment will be staged out of other yards in San Diego County. This will keep the resident street parking impacts to a minimum. With parking at a premium, we plan to post our “No Park” notices on schedule and keep them updated daily as necessary. Workers park up to two blocks away to free up available parking for residents. Stockpiles will be kept to what is necessary for the work shift that day, and all demolished material or excavated dirt will be hauled off the street the same day. This keeps parking free and the community clean during construction.

## APPENDIX A: ECOP DOCUMENTATION

541370 Surveying and Mapping (except Geophysical) Services

Ahrens Mechanical

Phone: (619) 487-9036 Fax: (619) 487-9195

Greg Ahrens Ahrensmechanical@gmail.com

License Type	Business Status
A	Small
B	Small
C-10	Small
C-16	Small
C-20	Small
C-34	Small
C-46	Small
C-04	Small
C-36	Small
Goods/Services	Small

NOTE:

- 238210 Electrical Contractors
- 236210 Industrial Building Construction
- 237990 Other Heavy and Civil Engineering Construction
- 238220 Plumbing, Heating, and Air-Conditioning Contractors

AIRX Utility Services, Inc.

Phone: (760) 480-2347 Fax: (760) 739-8034

Gail McMorran Gmcmorran@airxus.com

License Type	Business Status
A	Small
C-31	Small

NOTE: Locating, Potholing with hydro-excavation and vacuum, traffic control, survey, mapping and documentation for existing underground utilities.

- 541360 Geophysical Surveying and Mapping Services
- 541690 Other Scientific and Technical Consulting Services

Alden Environmental, Inc.

Phone: (619) 284-3815 Fax: (619) 284-3815

Greg Mason gmason@aldenenv.com

License Type	Business Status
Goods/Services	Small

NOTE: Identify and provide environmental mitigation as required by local federal, or state laws especially with wetlands or endangered species

- 541620 Environmental Consulting Services

Brownlow Enterprises, Inc. Phone: (619) 561-9693 Fax: (619) 390-9397

William (Bill) Brownlo Salibrownlow@yahoo.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** We own and operate and broker many types of aggregate material hauling vehicles and provide imported materials resources as well as export dump site resources for construction and demolition industries

484110 General Freight Trucking, Local

484220 Specialized Freight (except Used Goods) Trucking, Local

Brummitt Energy Associates, Inc. Phone: (619) 531-1126 Fax: (619) 531-1101

Elizabeth I. Brummitt jshirey@brummitt.com

License Type	Business Status
M	Emerging

**NOTE:** Energy performance planning and modeling; daylighting performance modeling and analysis; title 24 calculations, and LEED Documentation for new construction projects and existing buildings

541330 Engineering Services

BSE Engineering, Inc. Phone: (858) 800-6025 Fax: (858) 279-2626

Tamara Badkerhanian tganev@BSEengineering.com

License Type	Business Status
E	Small

**NOTE:** Mechanical, Electrical and Energy Engineering Services

541330 Engineering Services

Buescher Electric, Inc. DBA Service Electrical System Phone: (858) 748-8478 Fax: (619) 651-1392

Anthony Buescher Buescherelectric@gmail.com

License Type	Business Status
C-10	Emerging

**NOTE:** Electric installation and repair

238210 Electrical Contractors

Busby Biological Services Phone: (858) 999-2021 Fax: (000) 000-0000

Darin Busby Busbybiological@gmail.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** General Services

541620 Environmental Consulting Services

541690 Other Scientific and Technical Consulting Services

NAICS NAICS\_Description

Patterson Engineering, Inc. Phone: (858) 605-0937 Fax: (858) 605-1414

Curtis Patterson Curtis@pattersoneng.com

License Type	Business Status
CSD-12	Emerging

NOTE: Professional Services

541340 Drafting Services

541330 Engineering Services

Paula Roberts DBA Humanability Phone: (619) 794-6406 Fax: (858) 384-2681

Paula Roberts paula@humanability.biz

License Type	Business Status
Goods/Services	Emerging

NOTE: Community Liaison, Stakeholder Workshops, Meeting Facilitation, Public Outreach, Community Relations

541820 Public Relations Agencies

Payco Specialties, Inc. DBA Payco Specialties Phone: (619) 422-9204 Fax: (619) 427-1620

Rebecca Llewellyn rebecca@payco.biz

License Type	Business Status
C-32	Small

NOTE: Specialty Construction

238990 All Other Specialty Trade Contractors

237310 Highway, Street, and Bridge Construction

PCA Trucking, LLC Phone: (619) 995-6244 Fax: (619) 924-7665

Paul Robinson, Jr pcatrucking@outlook.com

License Type	Business Status
CSD-10	Emerging

NOTE: Commercial Trucking Services

484220 Specialized Freight (except Used Goods) Trucking, Local

Peace Engineering, Inc. DBA Stuart Engineering Phone: (619) 296-1010 Fax: (619) 296-9276

Stuart Peace speace@stuartengineering.com

License Type	Business Status
CSD-12	Small

NOTE: Civil Engineering and Land Surveying

541330 Engineering Services

541370 Surveying and Mapping (except Geophysical) Services

NAICS NAICS\_Description

Q&S Engineering, Inc. Phone: (858) 509-9508 Fax: (000) 000-0000  
 Conrad Leslie Cleslie@qsengineering.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Environmental services: sampling, studies, investigations; Oceanography: sediments, currents, bathymetry  
 541620 Environmental Consulting Services

QSB Construction Phone: (888) 600-1748 Fax: (760) 432-0300  
 Alicia Lowery Alicia.lowery@qsconstruction.com

License Type	Business Status
B	Small

**NOTE:** General Contractor/Sub-Contractor, we self perform site concrete and minor structural concrete  
 238110 Poured Concrete Foundation and Structure Contractors  
 238120 Structural Steel and Precast Concrete Contractors

Quality Construction & Engineering, Inc. Phone: (714) 585-1505 Fax:  
 Mohammad Qahoush qualityengineering@gmail.com

License Type	Business Status
A	Small
B	Small

**NOTE:** AC Paving, Site Concrete & Underground Utilities. Building Construction  
 238990 All Other Specialty Trade Contractors

Rancho Coastal Engineering & Surveying, Inc. Phone: (760) 510-3152 Fax: (760) 510-3153  
 Nora Logan Nora@rcesd.com

License Type	Business Status
CSD-12	Emerging

**NOTE:** Civil Structural Engineering, Surveying, Land Planning, Grading Plans  
 541330 Engineering Services

RAP Engineering, Inc. Phone: (760) 233-2980 Fax: (760) 233-2984  
 Robert Perez rperez@rapenginc.com

License Type	Business Status
A	Small

**NOTE:** Asphalt paving and grading  
 237310 Highway, Street, and Bridge Construction

Rappoport Development Consulting Services, LLC. Phone: (858) 205-4748 Fax:  
 Jeremy Rappoport Jeremy@landscapeexpertwitness.com

License Type	Business Status
Goods/Services	Small

**NOTE:** Certified arborist, landscape, horticulture and land development consulting services



NAICS NAICS\_Description

- 423920 Toy and Hobby Goods and Supplies Merchant Wholesalers
- 425120 Wholesale Trade Agents and Brokers
- 424330 Women s, Children s, and Infants Clothing and Accessories Merchant Wholesalers

Lopez Engineering, Inc. Phone: (619) 275-5658 Fax: (619) 275-1929

John J. Lopez jjlopez@lopezengineering.com

License Type	Business Status
Goods/Services	Small

NOTE:

541330 Engineering Services

Loveless & Linton Consulting Phone: (619) 922-0718 Fax:

Rebekah Loveless rebekah@loveless-linton.com

License Type	Business Status
Goods/Services	Small

NOTE: SLBE CERTIFICATION CREDIT WILL BE APPLIED TO ARCHAEOLOGICAL AND NATIVE MONITORING ONLY: Archaeological and Native American monitoring services, surveys, reports, EIR documents, peer reviews, tribal consulting,

- 541620 Environmental Consulting Services
- 541720 Research and Development in the Social Sciences and Humanities

Low Voltage Fire, Inc. DBA Low Voltage Integrated Systems, Inc. Phone: (760) 598-4110 Fax: (760) 598-4107

Michael Arguijo info@sdlvis.com

License Type	Business Status
C-10	Emerging
C-16	Emerging

NOTE: Fire,Security, Access

238210 Electrical Contractors

Luzaich Stripping Inc. DBA LSI Road Marking Phone: (619) 443-7755 Fax: (619) 443-7781

Rodney Luzaich Rodney@Lsiroadmarking.com

License Type	Business Status
D-38	Small
D-42	Small
C-31	Small
C-32	Small

NOTE: Labor, equipment, and materials used for striping, signage, and road markings

237310 Highway, Street, and Bridge Construction

NAICS NAICS\_Description

JDS Plumbing & Mechanical

Phone: (760) 477-7967 Fax: (760) 512-1664

Jeff Shaposhnick jeffshaposhnick@cox.net

License Type	Business Status
A	Emerging
B	Emerging
C-20	Emerging
C-36	Emerging
C-46	Emerging

**NOTE:** Plumbing, Mechanical, Site Utilities

238220 Plumbing, Heating, and Air-Conditioning Contractors

Jenal Engineering Corporation

Phone: (619) 697-2200 Fax: (619) 697-2400

Jennifer Westermeyer Jenalinc@cox.net

License Type	Business Status
A	Small
HAZ	Small

**NOTE:** General construction and installation; removal & repair of above & below ground fuel & waste oil storage tanks-piping and components. Testing and compliance.

237120 Oil and Gas Pipeline and Related Structures Construction

Jennette Company, Inc

Phone: (858) 583-2893 Fax:

Brian Jennette brianjennette@yahoo.com

License Type	Business Status
A	Emerging
B	Emerging

**NOTE:** Water Wastewater Contracting/Supplier/Consulting

541330 Engineering Services

Jerusalem Construction DBA Miramar General Engineering

Phone: (858) 663-4933 Fax: (858) 408-7191

Ala (Alex) Mohammad Alex@MiramarGeneral.com

License Type	Business Status
A	Emerging

**NOTE:** With over 20 years in combined staff experience, Miramar General Engineering is ready to provide owners, public agencies and other clients with top tier services in Flat Work, underground, and infrastructure construction.

237310 Highway, Street, and Bridge Construction

JL StormWater Consultants, Inc.

Phone: (619) 938-2420 Fax: (619) 334-6750

Jane Ledford jane@jlstormwater.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Environmental Consulting Services, SWPPP, WPCP, Lead Compliance Plans, Environmental Protection Plans, Industrial SWPPP Services, SWPPP Training

NAICS NAICS\_Description

Plum Provisions, Inc. Phone: (858) 432-3823 Fax:

Heather Mordhorst heather@plumprovisions.com

License Type	Business Status
No License	Small

**NOTE:** BROKER - PLUM Provisions primarily supplies a variety of electrical and lumbar supplies.

425120 Wholesale Trade Agents and Brokers

PRD Repair Inc. DBA Printer Repair Depot Phone: (858) 874-8264 Fax: (858) 874-8265

Joe Coyle joe@printerrepairdepot.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Desktop printer repair, Plotter repair, fax machine repairs, Remanufactured Toners and Inks

811212 Computer and Office Machine Repair and Maintenance

811211 Consumer Electronics Repair and Maintenance

443142 Electronics Stores

Premier Mechaical Group, Inc Phone: (760) 658-6399 Fax:

Michael Johnson pmg@premiermechanicalgroup.com

License Type	Business Status
A	Small
B	Small

**NOTE:** Project/Construction Management Service Provider

541618 Other Management Consulting Services

Pride Resource Partners, LLC Phone: (619) 255-9257 Fax:

Joe Maak joe.maak@prideresourcepartners.com

License Type	Business Status
B	Emerging

**NOTE:** Providing as needed construction project management, facilities planning and staff augmentation.

541611 Administrative Management and General Management Consulting Services

541618 Other Management Consulting Services

Pro Link Engineering, Inc. DBA Pro Link Back Flow Services Phone: (619) 659-8995 Fax: (619) 659-5761

Jed Spicer Prolinkwater@cox.net

License Type	Business Status
A	Small

**NOTE:** Eligible for ALL subcontracting opportunities, eligible as a prime contractor for \$50k & below until receipt of bond letter.

238220 Plumbing, Heating, and Air-Conditioning Contractors

NAICS NAICS\_Description

Two Oaks Sweeping LLC DBA Day & Night Power Sweeping

Phone: (619) 440-6193 Fax: (619) 440-5160

Warren Levy warren@sandiegosweeper.com

License Type	Business Status
Goods/Services	Emerging
Goods/Services	Emerging

**NOTE:** Street Sweeping and Pressure Washing

561790 Other Services to Buildings and Dwellings

488490 Other Support Activities for Road Transportation

Underground Pipeline Solutions, Inc.

Phone: (619) 964-2276 Fax: (619) 722-7363

Martin W. Cox upsimarty@gmail.com

License Type	Business Status
A	Small
HAZ	Small

**NOTE:** Underground wet utilities, water, sewer, storm drain

237110 Water and Sewer Line and Related Structures Construction

Ur Phone Guy

Phone: (619) 717-7175 Fax:

Isaiah King lking@UrPhoneGuy.Com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Design and develop mobile apps and responsive websites for business marketing and communication

541990 All Other Professional, Scientific, and Technical Services

541512 Computer Systems Design Services

541511 Custom Computer Programming Services

541519 Other Computer Related Services

541690 Other Scientific and Technical Consulting Services

541490 Other Specialized Design Services

541712 Reseach and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)

Urban Systems Associates, Inc.

Phone: (858) 560-4911 Fax:

Andrew P. Schlaefli justin@urbansystems.net

License Type	Business Status
CSD-12	Emerging
CSD-12	Emerging
CSD-12	Emerging

**NOTE:** Civil and Traffic Engineering & Transportation Planning

541330 Engineering Services

NAICS NAICS\_Description

Urbana Preservation & Planning, LLC

Phone: (619) 543-0693 Fax: (800) 880-4434

Wendy L. Tinsley Beck Wendy@urbanapreservation.com

License Type	Business Status
Goods/Services	Small

**NOTE:** Consulting firm offering specialized urban planning, historic preservation, history and architectural history services throughout the western United States.

541620 Environmental Consulting Services

712120 Historical Sites

US Access Consultants, Inc.

Phone: (619) 933-4755 Fax: (619) 828-6880

Corina Wilkes corina@usaccessconsultants.com

License Type	Business Status
CSD-01	Emerging

**NOTE:** US Access Consultants, Inc., is an accessibility consulting firm located in La Mesa, California.

541611 Administrative Management and General Management Consulting Services

Vailston Company, Inc.

Phone: (760) 757-3857 Fax: (760) 757-3848

Nate Johnston contact@vailstoncompany.com

License Type	Business Status
A	Emerging

**NOTE:** Site preparation, wet utilities, slope repair, grading, construction defect

238910 Site Preparation Contractors

237110 Water and Sewer Line and Related Structures Construction

Valley CM, Inc. DBA Valley Construction Management

Phone: (858) 444-5979 Fax: (858) 408-3414

Galina R. Mochel Galina.mochel@valleycm.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Construction Management/Goods and Material Services

237110 Water and Sewer Line and Related Structures Construction

Valor Constructors Inc.

Phone: (866) 496-1959 Fax:

Bryce Brown bbrown@valorconstructors.com

License Type	Business Status
A	Small
B	Small

**NOTE:** General Contracting and General Engineering Services

236220 Commercial and Institutional Building Construction

238310 Drywall and Insulation Contractors

237310 Highway, Street, and Bridge Construction

236210 Industrial Building Construction

Supplier Profile  
State of California Certification



Certification ID : 50000

Legal Business Name  
DRAVES PIPELINE INCORPORATED

Doing Business As (DBA) Name1:

Doing Business As (DBA) Name2:

Office Phone Number  
760/728-7094

Business Fax Number  
760/728-0086

Business Web Address  
<http://www.dravespipeline.com> ()

Service Areas  
Imperial , Riverside , San Bernardino , San Diego

Address  
PO BOX 1051  
BONSALL  
CA 92003

Email:  
[dale@dravespipeline.com](mailto:dale@dravespipeline.com) (<mailto:dale@dravespipeline.com>)

Total No. of Employees  
6

Business Types:  
Construction , Service

Notification Preference  
Email

[View Keywords](#)

[View Classifications](#)

Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	05/05/2017	05/31/2019
SB	Approved	05/05/2017	05/31/2019

Certification History ?

[Return to Search](#)

[\(http://www.dgs.ca.gov/\)](http://www.dgs.ca.gov/)



[\(http://www.fiscal.ca.gov/\)](http://www.fiscal.ca.gov/)

© 2015-2017 Cal eProcure

[Search \(search.aspx\)](#) | [Privacy Policy \(http://fiscal.ca.gov/Privacy\\_Policy/index.html\)](http://fiscal.ca.gov/Privacy_Policy/index.html)

[f \(https://www.facebook.com/CalDGS\)](https://www.facebook.com/CalDGS) [t \(https://twitter.com/CalifDGS\)](https://twitter.com/CalifDGS)

Supplier Profile  
State of California Certification



Certification ID : 1162421

Legal Business Name  
GEO CELL SOLUTIONS, INC.  
  
Doing Business As (DBA) Name1:  
GEO CELL SOLUTIONS, INC.  
  
Doing Business As (DBA) Name2:

Address  
2668 NORTH FORDHAM AVENUE  
FRESNO  
CA 93727  
  
Email:  
dlhacker@sbcglobal.net (mailto:dlhacker@sbcglobal.net)

Office Phone Number  
559/294-1551

Total No. of Employees

Business Fax Number  
559/294-7575

Business Types:  
Construction

Business Web Address  
http://geo-cell.com ()

Notification Preference  
Email

Service Areas

Alameda , Alpine , Amador , Butte , Calaveras , Colusa , Contra Costa , Del Norte , El Dorado , Fresno , Glenn , Humboldt , Imperial , Inyo , Kern , Kings , Lake , Lassen , Los Angeles , Madera , Marin , Mariposa , Mendocino , Merced , Modoc , Mono , Monterey , Napa , Nevada , Orange , Placer , Plumas , Riverside , Sacramento , San Benito , San Bernardino , San Diego , San Francisco , San Joaquin , San Luis Obispo , San Mateo , Santa Barbara , Santa Clara , Santa Cruz , Shasta , Sierra , Siskiyou , Solano , Sonoma , Stanislaus , Sutter , Tehama , Trinity , Tulare , Tuolumne , Ventura , Yolo , Yuba

[View Keywords](#)

[View Classifications](#)

Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	11/17/2016	11/30/2018

Certification History ?

[Return to Search](#)

[\(http://www.dgs.ca.gov/\)](http://www.dgs.ca.gov/)



[\(http://www.fiscal.ca.gov/\)](http://www.fiscal.ca.gov/)

Supplier Profile  
State of California Certification



Certification ID : 38082

Legal Business Name  
G SCOTT ASPHALT INC

Doing Business As (DBA) Name1:  
G SCOTT ASPHALT INC

Doing Business As (DBA) Name2:

Office Phone Number  
619/420-1854

Business Fax Number  
619/420-1859

Business Web Address  
<http://www.asphaltrepairs.com> ()

Service Areas  
Imperial , San Diego

Address  
358 TROUSDALE DR  
CHULA VISTA  
CA 91910-1045

Email:  
[Dru@asphaltrepairs.com](mailto:Dru@asphaltrepairs.com) (mailto:Dru@asphaltrepairs.com)

Total No. of Employees  
19

Business Types:  
Construction

Notification Preference  
Email

[View Keywords](#)

[View Classifications](#)

Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	11/30/2016	11/30/2018
SB	Approved	11/30/2016	11/30/2018

Certification History ?

[Return to Search](#)

[\(http://www.dgs.ca.gov/\)](http://www.dgs.ca.gov/)



[\(http://www.fiscal.ca.gov/\)](http://www.fiscal.ca.gov/)



Supplier Profile  
State of California Certification



Certification ID : 49756

Legal Business Name  
SCST INC

Address  
6280 Riverdale Street  
San Diego  
CA 92120

Doing Business As (DBA) Name1:  
SCST INC

Email:  
lkatz@scst.com (mailto:lkatz@scst.com)

Doing Business As (DBA) Name2:

Total No. of Employees  
73

Office Phone Number  
619/280-4321

Business Types:  
Service

Business Fax Number  
619/280-4717

Notification Preference  
Email

Business Web Address  
www.scst.com ()

Service Areas

Alameda , Alpine , Amador , Butte , Calaveras , Colusa , Contra Costa , Del Norte , El Dorado , Fresno , Fresno , Glenn , Humboldt , Imperial , Imperial , Inyo , Kern , Kings , Lake , Lassen , Los Angeles , Los Angeles , Madera , Marin , Mariposa , Mendocino , Merced , Modoc , Mono , Monterey , Napa , Nevada , Orange , Orange , Placer , Plumas , Riverside , Riverside , Sacramento , Sacramento , San Benito , San Bernardino , San Bernardino , San Diego , San Diego , San Francisco , San Francisco , San Joaquin , San Luis Obispo , San Mateo , Santa Barbara , Santa Clara , Santa Cruz , Shasta , Sierra , Siskiyou , Solano , Sonoma , Stanislaus , Sutter , Tehama , Trinity , Tulare , Tuolumne , Ventura , Yolo , Yuba

[View Keywords](#)

[View Classifications](#)

Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	12/08/2016	12/31/2018

Certification History ?

[Return to Search](#)

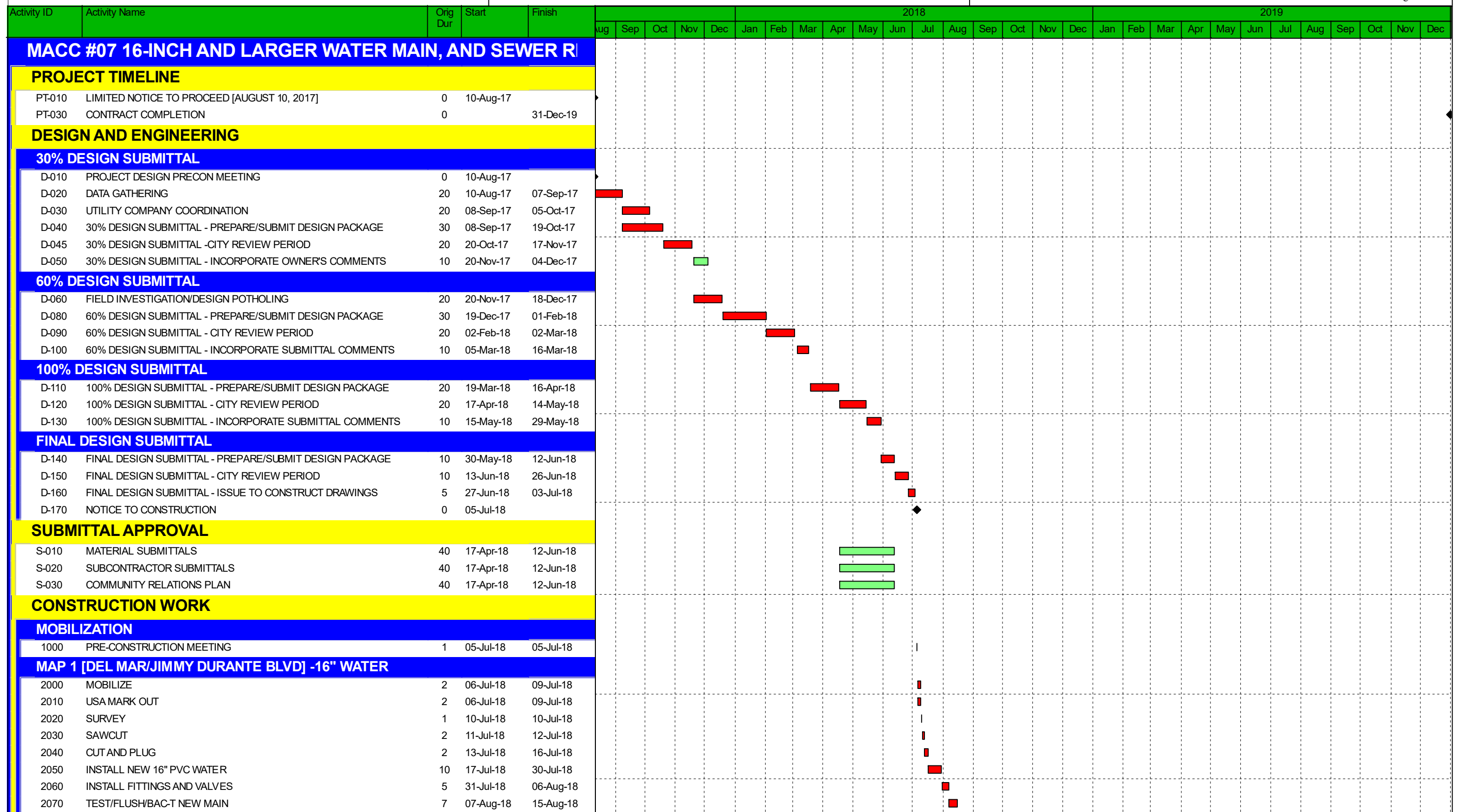
[\(http://www.dgs.ca.gov/\)](http://www.dgs.ca.gov/)



[\(http://www.fiscal.ca.gov/\)](http://www.fiscal.ca.gov/)

## APPENDIX B: SCHEDULE

---



RUN DATE: 13-Jun-17  
 DATA DATE: 10-Aug-17  
 PROJECT START DATE: 10-Aug-17  
 PROJECT FINISH DATE: 31-Dec-19

**CITY OF SAN DIEGO**  
**MACC #07 16-INCH AND LARGER WATER MAIN, AND SEWER REPLACEMENT**

█ Actual Work      ◆ Milestone  
█ Remaining Work  
█ Critical Remaining Work



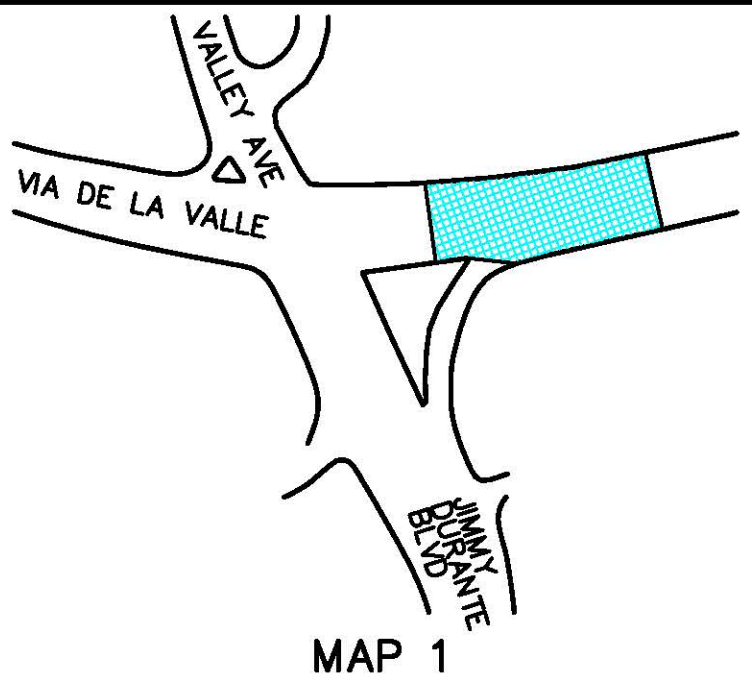




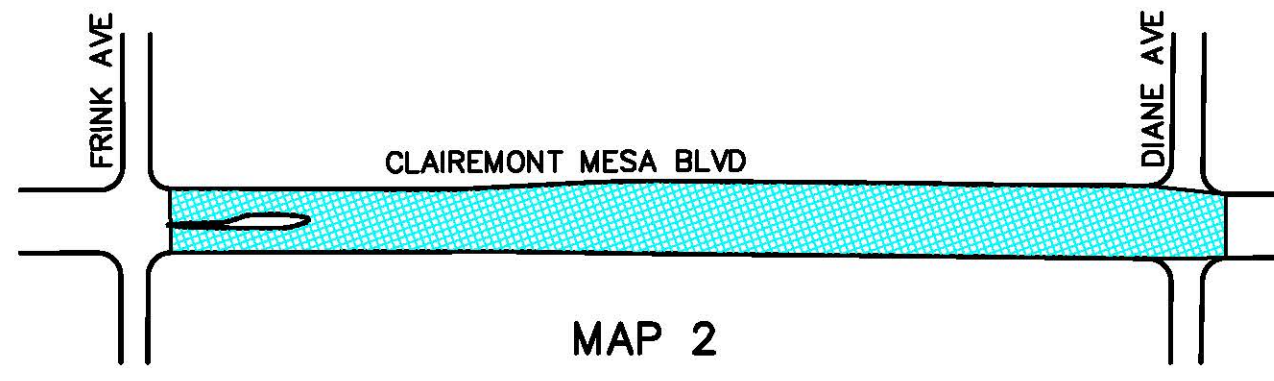


## APPENDIX C: PAVING RESTORATION

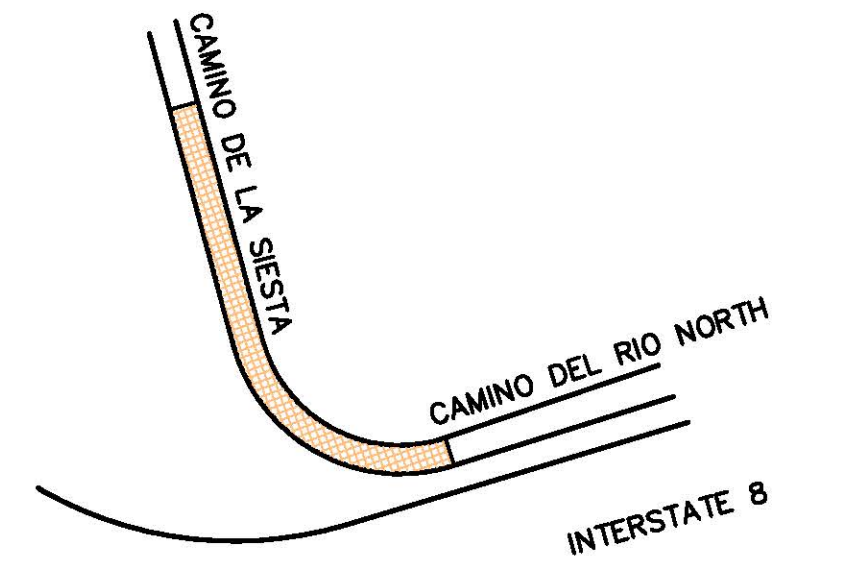




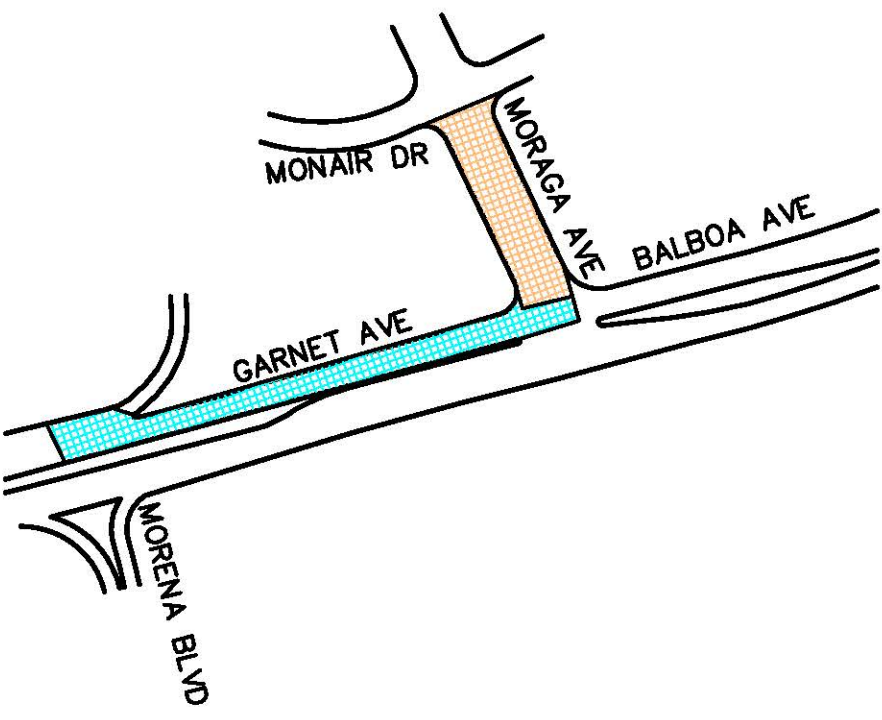
MAP 1



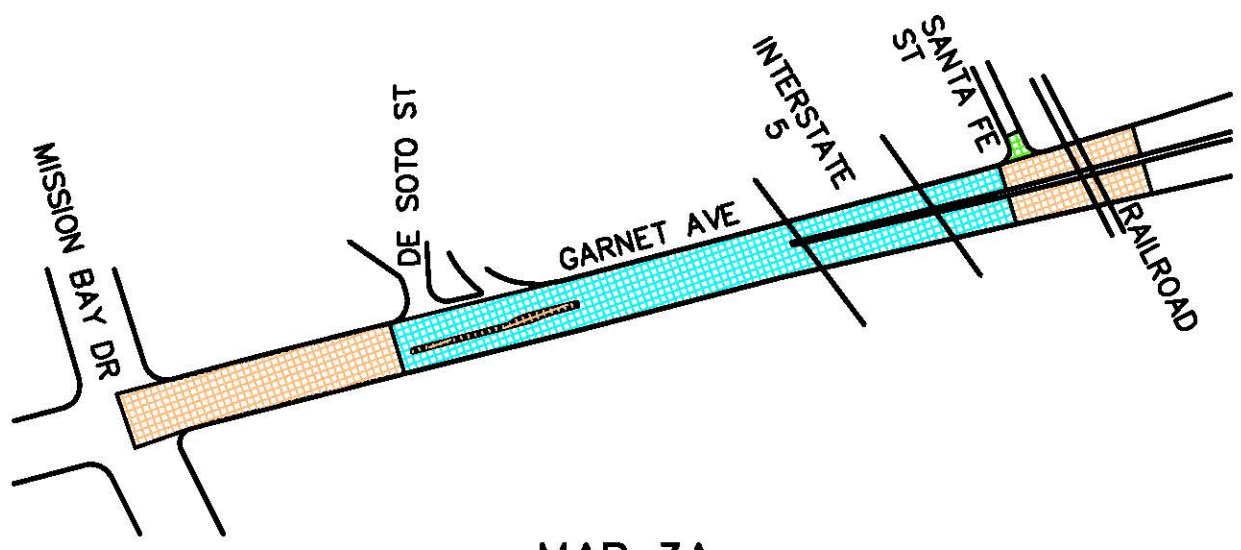
MAP 2



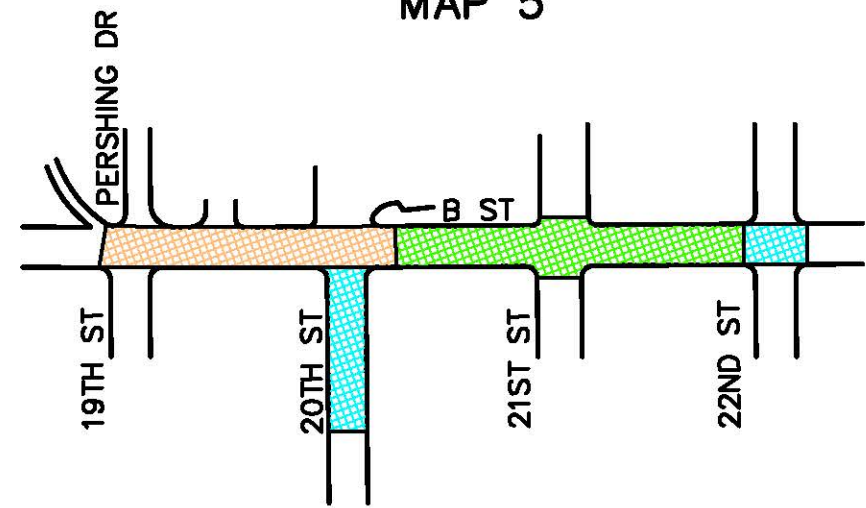
MAP 5



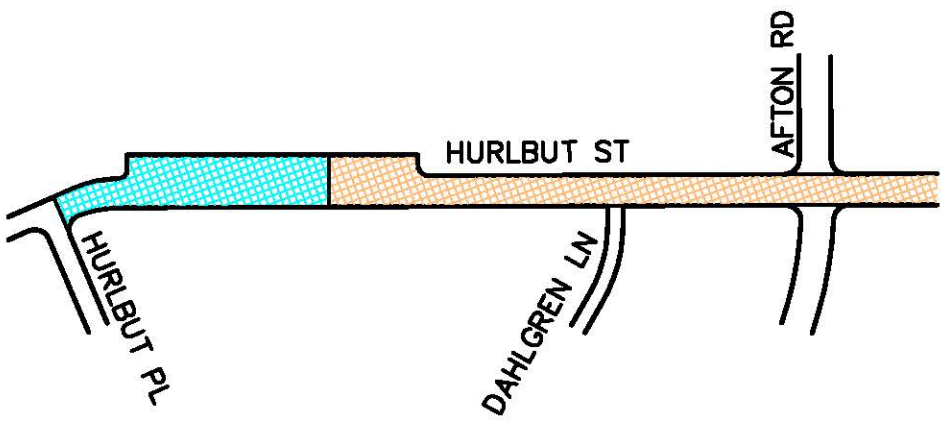
MAP 3B



MAP 3A



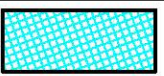


MAP 6

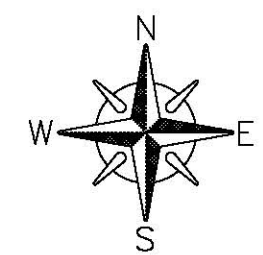


MAP 4



MAP 7

LEGEND	
	APPROXIMATE LIMITS/LOCATION OF TRENCH RESURFACING WITH SLURRY SEAL
	APPROXIMATE LIMITS/LOCATION OF GRIND AND ASPHALT CONCRETE PAVEMENT OVERLAY
	APPROXIMATE LIMITS/LOCATION OF CONCRETE WORK



NO SCALE

**HARRIS & ASSOCIATES**  
 600 B Street, Suite 2000  
 San Diego, CA 92101  
 (619) 236-1778 • FAX (619) 236-1179

# PAVING RESTORATION

## APPENDIX D: ADDITIONAL RESUMES

# Alex Yescas, PE, CFM, ENV SP

## QA/QC MANAGER

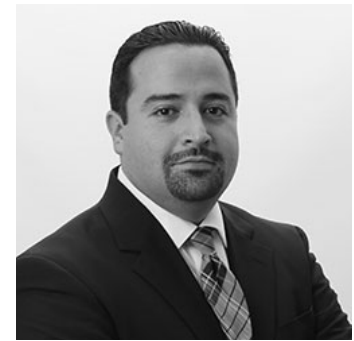
Alex Yescas will serve as the QA/QC Manager for the design of the *Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement*.

Alex has 16 years of experience in the design of complex water, sewer, and stormwater facilities. He leads Harris' design-build engineering team that has implemented over 20 miles of pipeline facilities in Southern California. He is a Certified Floodplain Manager, a registered Professional Engineer in the state of California, an Envision Sustainability Professional and the southern director of the Floodplain Management Association.

Alex's relevant experience includes QA/QC review of the Design-Build task orders for the City of San Diego which include: *Catalina Boulevard 12-inch Cast Iron Water Main Replacement* with 24-inch CMLSCS, *AC Water and Sewer Job 1010/1005*, and *Sewer Group Job 743*. Alex led and provided direction to the California Department of Water Resources' multi-objective floodplain risk and analysis tasks throughout California as part of the management team that developed over 200 task orders. Alex is currently leading the design efforts to support Southern California agencies on implementing stormwater facilities that adhere to the California Regional Water Quality Control Board stormwater permits.

### RELEVANT EXPERIENCE

- **City of San Diego/Orion Construction, Catalina Cast Iron Water Mains & Catalina Sewer Mains.** QA/QC Manager. QA/QC review for the upsizing of cast-iron and asbestos cement water main between Point Loma Reservoir and Catalina Standpipe in the Point Loma area. Overflow from Catalina Standpipe will be directed to a new 18-inch reinforced concrete pipe main that will connect to the existing storm drain system.
- **City of San Diego/Orion Construction, Meadow Lark/Health Center Drive Water Main.** Project Manager. \$4.6 million replacement and partial realignment of approximately 9,300 LF of existing 18-inch and 24-inch cast iron pipe with new 12-inch and 16-inch polyvinyl chloride water main. Project will abandon approximately 3,400 LF of pipeline. Project consisted of 325 LF of jack-and-bore of water main under SR-163.
- **City of San Diego/Orion Construction, AC Water Group 1010 and AC Water Group 1005.** QA/QC Manager. Managed the replacement of four-, six-, and eight-inch asphalt concrete water mains with eight-inch polyvinyl chloride. Work included paving and ADA ramp upgrades/replacement.
- **City of San Diego/Orion Construction, Sewer Group Job 743.** QA/QC Manager. Sewer rehabilitation at 15 sites. Four sites involve replumbing backyard laterals into new sewers in street right-of-way and the remaining 11 sites involve sewer relining.
- **City of San Diego /Orion Construction, Citywide Stormwater Permanent BMP Retrofit Project.** Project Manager. Alex managed the preparation of Water Quality Technical Reports (WQTRs) at nine sites to support retrofit/redesign to bring the sites into compliance with Region Nine Water Quality Control Board regulations, including applicable requirements of the Draft San Diego BMP Design Manual.
- **City of Del Mar, Citywide Sewer Condition Assessment and Design.** Project Manager. Provided CCTV inspection, assessments, and design of the City's entire 30-mile sewer system including all manholes. Condition assessment outlined millions of dollars in sewer repairs over the next years. The programmatic improvements identified the following categories: upsizes, point repairs, relining, replacements, realignments, manhole upgrades and replacements, and maintenance.
- **City of National City, Sewer Upsizing and Rehabilitation.** Project Manager. Preparing a Pump Station O&M Manual and completing a coordinated design for two urgent sewer projects as one bid package.



### EDUCATION

BS, Civil and Environmental Engineering

### LICENSES

Professional Civil Engineer, CA

### CERTIFICATIONS

*Certified Floodplain Manager*, Association of State Floodplain Managers

*Envision Sustainability Professional*, Institute for Sustainable Infrastructure

### AFFILIATIONS

American Society of Civil Engineers

Association of State Floodplain Managers

Floodplain Management Association

# Jason Arme

2185 La Mirada Drive, Vista, CA 92081  
(760) 596-9660

## PROFESSIONAL EXPERIENCE

Jason has been involved in the local industry for 10 years. With a background in underground site civil construction starting his career with BRH Garver West, Inc. in 2007 and making the transition to Orion in 2014. Jason has a wide range of involvement at a project specific level. Jason is a part of the management of the direct day to day field operations from the start up period, subcontractor coordination, ensuring the proper installation of underground piping systems and structures along with all surface restoration, project commissioning and close out. Key components of Jason's project involvement focuses on efficiency and bringing a project in on schedule, meeting project milestones within budget and having close communication with company management regarding strategy and project scopes, while working closely with the client ensuring the projects progress and expectations are met and executed at a high level. Below are several projects Jason has been involved in:

### KEY RELATED EXPERIENCE

#### ORION CONSTRUCTION

AUG 2014-PRESENT

- ▶ **NAVFAC Southwest – P-1045 New Potable Water Conveyance**
  - Installation of 50,000 LF of 24" Potable HDPE waterline and appurtenances, along with 7,000 LF of 16" Potable HDPE waterline – Installed via conventional open cut excavation method.
  - Performed 3,000 LF HDD (Horizontal Directional Drill) – 24" HDPE waterline installed at Aliso Creek. Bore reach 50' in depth, with technical compound curve alignment due to existing utility location.
- ▶ **San Diego County Reginal Airport Authority (SDCRAA) – NSU Storm Drain Trunk Project 104118E**
  - Installation of 10,000 LF of 30" and 36" PVC and FPVC Storm Drain Pipeline along active runway by means of conventional open cut method, making connection to existing 60" outfall at San Diego Bay
  - 800 LF 42" Micro-tunnel crossing beneath active Taxiway – 30" Carrier pipe installation
  - Installation of Pump Station and Valve Vault – Depth of 31' – 4 Submersible pump System
  - Continual dewatering efforts throughout project duration due to existing ground water table elevations. Dewatering wells and well points along with 6000 LF of header pipe were used to properly manage the ground water and discharge.

#### BRH GARVER WEST, INC

JULY 2007-2014

Project Manager/Field Superintendent - Direct management of contract administration, project set up, Sub-Contractor coordination, invoicing review, progress billing, administrative change orders, negotiations and project close out. Involved in overseeing the development of baseline schedules, material take-offs along with the management of manpower and day to day field operations.

- ▶ Eastern Municipal Water District – San Jacinto Valley Interceptor Sewer Project
  - 23,000 LF of 36" and 42" HOBAS pipe
  - 5ea 36" Jack and Bores ranging 180'-250 LF in length
- ▶ City of San Diego Sewer Group 682 Project
  - 14,000 LF 8,10 and 12" sewer installed with the removal and Replacement of existing VCP system
- ▶ City of San Diego Sewer Group 644 Project
  - 8,000 LF 8" sewer installed with removal and replacement of existing VCP system



- ▶ Eastern Municipal Water District – Enchanted Heights Sewer Infrastructure/Lukens Lift Station Project Spec. No. 1162S
  - Involved converting a 500 dwelling community in Perris, CA from septic sewer to a new gravity sewer system.
  - Installed 22,000 LF of new gravity sewer main, 3,000 LF of force main, 500 sewer connection and re-plumbs, along with sewer lift station wet well.
- ▶ City of La Mesa Phase IV Sewer Infiltration/Reduction Project
  - 7,500 LF of removal and replacement of deteriorating VCP sewer system by means of traditional open cut excavation, along with 10,000 LF of sewer replacement by means of pipe bursting due to access restrictions
- ▶ City of Fullerton Cannon Lane/Lemon St. Sewer Replacement Project No. 5156
  - 8,200 LF of new VCP installed via traditional open cut method, due to existing the utility conflicts, 5,000 LF was installed using the pipe bursting method upsizing from 6” to 8” sewer main
- ▶ Eastern Municipal Water District – Spec No. 1214P Normandy Rd. 54” and 30” Pipeline Replacement
  - 54”(recycled water) CMLC and 30”(Brine) CMLC pipelines ran parallel. Utilized 2 temp. line stops with a bypass to keep lines in service with close coordination involving the source treatment facility 1 mile upstream during a limited 8 hr Shut down period
- ▶ San Dieguito Water District/City of Encinitas – 30” Transmission Main Abandonment Project
- ▶ Cal American Water – Hollister Street 20” Water main Replacement
  - Removal and replacement of 6,000 LF existing steel water main with 20” C900
  - Jack and bore method used to cross beneath environmentally sensitive habitat
- ▶ Eastern Municipal Water District – Barton Nandina Interagency Connection 12” Pipeline Phase 2. Spec. No 1124W
  - 19,000 LF of 12”C900 waterline and services, located in the Riverside metropolitan area.
- ▶ Rincon Del Diablo Water District – Via Rancho Pkwy/Sunset Hills/Felicita Waterline Replacement
  - 15,0000 LF of 8”,12” Class 250 Ductile Iron waterline
  - Coordinating closely with the County of San Diego while working on heavily travelled county roadways.
- ▶ City of Oceanside – Mesa Garrison 30”Sewer Force Main Project

## ACADEMIC QUALIFICATIONS

- University of Idaho – Bachelor’s Degree 2007
- Colorado School of Mines – Micro Tunneling/Pilot Tube 2008
- OSHA 30 Construction Course
- Trenching & Shoring / Competent Person
- Construction Quality Management for Contractors – Cert # 784 (SE9-04-14-00417) NAVFAC 2014
- CESSWI (Certified erosion, sediment, storm water inspector) & QSP

## REFERENCES

Chris George, San Diego Regional Airport Authority Project Manager	(619) 400-2227
Dennis Redger, NAVFAC Engineering Technician	(951) 370-0319
Clay Bomberger, San Diego Regional Airport Authority C.M	(619) 400-2662
Tim Manning, EMWD Construction Manager	(951) 634-5624
Mario Rodriquez, EMWD Inspector	(951) 300-3087

# Jason Caprio, PE

## CIVIL ENGINEER

Jason Caprio will serve as the Civil Engineer for the design of the *Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement*.

Jason has over 12 years of experience performing engineering design, construction, and project management and administration of water infrastructure projects. His primary experience lies with design and construction of capital infrastructure projects for small and large cities, water districts, sanitation districts, and private water purveyors. Jason's responsibilities and past projects involve water transmission pipelines, water distribution pipelines, water storage facilities, water treatment plants, sewer mains, wastewater treatment plants, storm drains, roadway and streetscape improvements, and ADA compliance.

Jason was lead designer for several City of San Diego Design-Build projects such as the *AC Water and Sewer Group Job 1001*. He has a great understanding of the existing constraints along Woodman Street based on his prior design experience in the area. Jason served as the Project Manager for the replacement of the *Cielo-Woodman Pump Station* and recently as the lead designer for the *Otay 2nd Pipeline Phase 1*, just north of Phase 2 which will serve as our connection point for the improved transmission line.

### RELEVANT EXPERIENCE

- **City of San Diego, *Below-Grade Investigation and Sewer Lateral Replumb Design*.** Project Manager and Project Engineer. Responsible for the planning and design phases of the *City Sewer and Water Group Job 701* in the Midtown and Mission Hills neighborhoods. The project included planning, community outreach, below-grade investigations, and design of new water mains, sewer pipelines, and gravity and pump system sewer laterals within public and private rights-of-way.
- **City of San Diego, *Evans Pond Reclaimed Water Retrofit Project*.** Project Manager and Project Engineer. Responsible for the engineering design for the project, which reconfigured the means of supplying a City of San Diego water feature with reclaimed water in lieu of potable water. The project included hydraulic calculations, storm event calculations and reporting, design of new 2.5-inch PVC recycled water pipeline, abandonment of storm drain infrastructure, and related appurtenances.
- **City of Tehachapi, *Downtown Sewer Trunk Main Phase II Design*.** Project Engineer. Responsible for the engineering design, bid, and construction support services for the Downtown Improvements Project. The project included design of new sewer mains, manholes, connections to existing system, and new storm drain improvements.
- **City of Tehachapi, *Tucker Road Sewer Lift Station*.** Project Engineer. Responsible for the engineering design, bid, and construction support services for the project, which was an associated project related to development of the Love's Travel Store and adjacent properties. The project included design of gravity sewer mains, force mains, wet well caisson, submersible pumping system, and connection to existing sewer system.
- **East Niles Community Services District, *Morning Drive Pipeline System Expansion*.** Project Engineer. Responsible for the engineering design, bid, and construction support services for the project, which allowed for additional development and incorporated smaller water communities. The project included design of new 16-inch PVC water pipeline, pressure reducing valve stations, service connections, and related appurtenances.
- **Lakeside Union School District, *Water Supply Project*.** Project Engineer. Responsible for the engineering design for the project, which allowed the campus to convert groundwater supply wells to exclusively irrigation and to provide potable water demand via a 14-inch PVC water pipeline (City of Bakersfield). The project included design of new 14-inch PVC water pipeline, jack and bore crossing of feeder canals, system configuration and conversions, service connections, and related appurtenances.



### EDUCATION

BS, Civil Engineering

### LICENSES

Professional Civil Engineer, CA

### AFFILIATIONS

American Society of Civil Engineers

WaterReuse, San Diego Chapter

# Diane Sandman, AICP

## ENVIRONMENTAL COMPLIANCE

Diane Sandman has 16 years of experience in environmental sciences and planning. She has worked extensively on California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance documents, including environmental impact reports (EIRs) and Mitigated Negative Declarations (MNDs) for numerous water/sewer and master plan projects.

Diane has been responsible for permitting coordination with resource agencies including the US Army Corps of Engineers (USACE), US Fish and Wildlife Service (USFWS), California Coastal Commission (CCC), California Department of Fish and Wildlife (CDFW), and the San Diego Regional Water Quality Control Board (RWQCB). Diane has worked on a wide variety of water and wastewater projects for the City of San Diego and other local agencies. Examples of projects she's worked on include *Carmel Valley Trunk Sewer*, *Otay Mesa Trunk Sewer*, *Pala Water Pipeline*, and *Otay Water District Master Plan*. She has reviewed the CEQA documentation for the project and understands the applicable City's Multiple Species Conservation Program (MSCP) requirements. Diane is also an instructor for the Environmental Assessment Practices course at the University of San Diego.

## RELEVANT EXPERIENCE

- **City of San Diego, Otay Mesa Trunk Sewer Program EIR.** Assistant Project Manager. Prepared the draft and final programmatic EIR documents for this 14.7-mile sewer infrastructure project in the Otay Mesa Community, with portions of the project in San Ysidro. The EIR addressed biology, cultural resources, air quality, construction traffic, land use, and other issues
- **City of San Diego, Carmel Valley Trunk Sewer Replacement IS/MND.** Assistant Project Manager. Replacement of 2.63 miles of existing trunk sewer. Diane assisted with documenting the environmental impacts.
- **County of San Diego, Property Specific Requests Subsequent Program EIR.** Project Manager. Preparation of the SEIR for the GPA. To ensure the proposed GPA for the 44 PSRs comply with CEQA, the SEIR evaluated the environmental impacts and mitigation measures associated with the PSRs.
- **San Diego Unified Port District, Tenth Avenue Marine Terminal EIR Support Services.** Harris is assisting the Port in developing a section to mitigate stormwater runoff and develop conceptual alternatives to support a Programmatic EIR. This work is being carried out to support the Port with a TIGER grant received. The work will support the design and construction of water quality BMPs along the improved marine terminal.
- **City of La Mesa, La Mesa Sewer Repair and Replacement MND and CEQA Plus Requirements.** Project Manager. Replaced 100,000 LF of sewer pipelines to correct sewer overflows due to wet weather inflow and infiltration. IS/MND and technical studies (air quality, biological resources, and cultural resources) complied with federal CEQA Plus requirements.
- **City of La Mesa, Alvarado Trunk Sewer Upgrade MND.** Project Manager. Installed 1,800 LF of sewer trunk main to replace existing sewer trunk main located in the Alvarado Creek channel. Performed wetland delineation. Prepared and obtained a USACE 404 permit, RWQCB 401 certification, and CDFW 1602 Streambed Alteration Agreement.
- **City of Vista, Comprehensive Sewer Master Plan Program EIR.** Project Director. Prepared air quality, greenhouse gas emissions/energy, land use and noise sections.
- **City of El Cajon, Johnson Avenue Trunk Sewer MND.** Project Manager. Diane managed the IS/MND and supporting technical studies. The document will be prepared in conformance with State Water Resources Board CEQA Plus requirements.



## EDUCATION

BA, Environmental Studies

## CERTIFICATIONS

*Certified EIR Preparer*, County of San Diego

*Certified Planner*, American Institute of Certified Planners

## AFFILIATIONS

American Planning Association

California Association of Environmental Professionals, Chapter President (2006-2010)