

**Public Works Department**

305 West Third Street, East Wing, Third Floor  
Oxnard, California 93030  
Tel 805.385.8280



**June 7, 2019**

**ADDENDUM NO. 5**

**HUENEME ROAD RECYCLED WATER PIPELINE PHASE II  
SPECIFICATION NO PW 17-42  
SCHEDULED BID OPENING DATE: June 12, 2019**

**TO ALL BIDDERS OF RECORD:**

Acknowledge receipt of this addendum by enclosing one signed copy with your bid documents. Failure to do so may subject bidder to disqualification. This addendum forms a part of the bid documents as follows and modifies the original Contract Documents as noted below. This Addendum consists of two (2) pages and the attached Revised Special Provisions pages.

1. **Section 1000 – Project Requirements.** Section 1000 has been revised. Bidders are instructed to remove page SP 1 provided with the Contract Documents and replace with the attached Revised SP 1.
2. **Section 5000 – Construction Progress Schedule.** Section 5000 has been revised. Bidders are instructed to remove page SP 42 provided with the Contract Documents and replace with the attached Revised SP 42.
3. **Section 17000 – HDPE Pipe and Fittings.** Section 17000 has been revised. Bidders are instructed to remove pages SP 158, SP 160 and SP 161 provided with the Contract Documents and replace with the attached Revised SP 158, Revised SP 160 and Revised SP 161.

**The City has received Requests for Information (RFI) regarding this project. The questions and responses are below:**

1. What are the boring settlement monitoring requirements?

**Response:** Boring settlement requirements will be per Caltrans' and Ventura County's requirements, respectively.

2. Detail B on Sheet 26 calls for both a Brooks 67 box with steel cover and a CI frame and cover cast in a concrete collar. Please provide spec for frame and cover if required.

**Response:** Detail B should be a Brooks 67 box with bolt down steel lid. The note “CI MANHOLE FRAME & COV. SET FLUSH W/ CONC. PAD.” will be removed.

3. Per Special Provisions, Section 8000, Subsection 1.2, please advise if the contractor will be permitted to install dewatering wells outside the trench or if sump pumping will only be accepted.

**Response:** The Contractor will be permitted to install dewatering well outside the trench pending the Contractor obtains permission and permits for such. No additional payment will be made for dewatering wells.

4. Per Special Provisions, Section 6000, Subsection 3.18.2, please confirm potholing for traffic signal and other electrical utilities will be required prior to preparation of piping shop drawings per S.P. Section 16000.

**Response:** Yes, potholing for traffic signal and other electric utilities is required prior to preparation of Shop drawings.

5. Per Special Provision, Section 17000, Subsection 1.2.1, please confirm hydrostatic testing will be required every 2,000 LF.

**Response:** Confirmed, but this requirement may be reduced by the City’s Engineer.

6. Per Special Provision, Section 17000, Subsection 2.2.1, please confirm HDPE pipe shall be manufactured and shipped in 53’-55’ lengths.

**Response:** Confirmed

Addendum No. 5 Received: Date: \_\_\_\_\_

\_\_\_\_\_  
Contractor’s Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
City State Zip Code

\_\_\_\_\_  
Name and Title

\_\_\_\_\_  
Telephone Number, Including Area Code

## **SPECIAL PROVISIONS**

### **SECTION 1000- PROJECT REQUIREMENTS**

#### **PART 1 EADOC (OR EQUAL)**

##### **1000-1.1 EADOC DESCRIPTION**

The City and Contractor shall utilize EADOC LLC's EADOC system, **or equal**, for electronic submittal of all data and documents throughout the duration of the Contract. EADOC is a web-based electronic media site that is hosted by EADOC LLC. utilizing their EADOC web solution. EADOC will be made available, at no cost, to all Contractor project personnel, subcontractor personnel, suppliers and consultants. The joint use of this system is to facilitate; electronic exchange of information, automation of key processes, and overall management of the Contract. EADOC shall be the primary means of project information submission and management. When required by the Project Manager, paper documents will also be provided. In the event of discrepancy between the electronic version and paper documents, the paper documents will govern. EADOC is a registered trademarks of EADOC LLC.

##### **1000-1.2 USER ACCESS LIMITATIONS**

The City's representative will control the Contractor's access to EADOC by allowing access and assigning user profiles to accepted Contractor personnel. User profiles will define levels of access into the system; determine assigned function-based authorizations (determines what can be seen) and user privileges (determines what they can do). Sub-contractors and suppliers will be given access to EADOC through the Contractor. Entry of information exchanged and transferred between the Contractor and its sub-contractors and suppliers on EADOC shall be the responsibility of the Contractor.

###### **1000-1.2.1 Joint Ownership of Data**

Data entered in a collaborative mode (entered with the intent to share as determined by permissions and workflows within the EADOC system) by the Project Manager and the Contractor will be jointly owned.

###### **1000-1.2.2 Data access after project completion**

All project participants can request a copy of their project information from EADOC upon completion of the project. Participants are responsible for the \$500 cost for the archive. To request an archive complete a support request in the EADOC application. The support request should include the address for shipping the archive too.

##### **1000-1.3 AUTOMATED SYSTEM NOTIFICATION AND AUDIT LOG TRACKING**

Review comments made (or lack thereof) by the City on Contractor submitted documentation shall not relieve the Contractor from compliance with requirements of the Contract Documents. The Contractor is responsible for managing, tracking, and documenting the Work to comply with the requirements of the Contract Documents. City's acceptance via automated system notifications or audit logs extends only to the face value of the submitted documentation and does not constitute validation of the Contractor's submitted information.

Full compensation for conforming to the requirements of this Section shall be considered as included in the prices paid for the various Contract Bid items of Work involved and no additional compensation shall be allowed therefore.

## **SECTION 5000 CONSTRUCTION PROGRESS SCHEDULE**

**Contractor shall reference Section 7000-Start-up Requirements, Subsection 1.2.3 for coordination with the private easement requirements.**

### **WORKING DAYS AND HOURS:**

Contractor's activities shall be confined to the hours between 7:00 am. and 3:30 pm. Monday through Friday (except for approved Night Work). Approved Night Work activities shall be confined to the hours between 8:30 pm and 4:30 am. Monday through Friday. In addition, no work shall be performed by the Contractor between 5:00 AM on Saturday and 7:00 AM on Monday, or on City designated holidays (except for approved Weekend Work). Refer to project plans for additional approved hours on each specific location. Additionally, double shifts (day and night) and work in multiple locations will be allowed with Project Manager approval.

Deviations from these restrictions will not be permitted without the prior consent of the Project Manager, except in emergencies involving immediate hazard to persons or property. In the event of either a requested or emergency deviation, inspection service fees will be charged against the Contractor. Service fees will be calculated at overtime rates including benefits, overhead, and travel time; and will be deducted from the amounts due the Contractor.

### **1.1 GENERAL OVERVIEW**

A Progress Schedule utilizing the Critical Path Method (CPM) format shall be used to control the Work and to provide a definitive basis for determining project progress. The Progress Schedule shall be prepared, maintained and updated by the Contractor and historical dates agreed monthly with the Project Manager. The Contractor shall submit a preliminary Progress Schedule and a Progress Schedule for acceptance by the Project Manager. These schedules shall be the Contractor's working schedules and shall be used to plan, organize and execute the Work, record and report actual performance and progress; and show how the Contractor Plans to complete all remaining Work as of the end of each progress report period.

The Progress Schedule shall comprise all the detailed construction-related activities using the Critical Path Method (CPM). The Progress Schedule shall provide sufficient detail and clarity to reflect the intricacies and interdependencies of activities so the Contractor can plan, schedule, monitor, control and report on the progress of his Work. In addition, it shall provide the Project Manager, Engineer, and City a tool to monitor and follow the progress for all phases of the Work.

**1.2 PRELIMINARY PROGRESS SCHEDULE.** The Contractor shall prepare a construction schedule for this contract in conformance with the Provisions in Section 6-1, "Construction Schedule and Commencement of Work," of the Contract Documents.

The Contractor's proposed schedule and staging plan shall be submitted to the Engineer for approval within ten (10) Working Days after the City's issuance of a notice of award of Contract.

Mechanical joint connections with retainer glands shall be assembled in accordance with the manufacturer's recommendations for the specific fitting and retainer gland. Torquing of break-off gland bolts shall be done in the presence of the City Inspector. Each fitting shall be observed by the City prior to bagging and backfill. Any such fittings not observed by the City shall be excavated and exposed for detailed re-inspection of the fitting and bolt torque.

## **SECTION 17000 - HDPE (HIGH DENSITY POLYETHYLENE) PIPE AND FITTINGS**

### **PART 1 – GENERAL**

#### **1.1 DESCRIPTION:**

- 1.1.1 This section specifies HDPE and fittings for recycled water use, and provides the minimum qualifications and standards of quality for the manufacturing, supply, fusion services, QA/QC procedures, and testing for HDPE pipe and appurtenances.
- 1.1.2 Where the term “Supplier” is used in this section, it shall refer to the entity under contract with the Contractor that will be responsible for the following at a minimum:
  - 1. Supply of HDPE Pipe
  - 2. Provide Fusion Services
  - 3. QA/QC of the Fusion
  - 4. Warranty of the HDPE Pipe & Fittings
- 1.1.3 The Supplier shall perform quality control testing utilizing destructive testing (DT) methodologies for the required quality control associated with the installation of HDPE pipe. Frequency of DT to be determined by the City, considering success of DT on fused pipe joints.
- 1.1.4 The City reserves the right to hire a third-party to conduct additional testing of pipe fusions, in which case, the City’s testing firm shall unilaterally determine the acceptability of pipe fusions. The Supplier will be responsible for coordination and cooperation with the City’s testing firm.
- 1.1.5 Where the term “Manufacturer” is used in this section, it shall refer to the entity under contract with the Contractor that will be responsible for the following at a minimum:
  - 1. Manufacturing of the HDPE Fittings
  - 2. QA/QC of the Manufacturing

#### **1.2 SUBMITTALS**

- 1.2.1 Shop drawings shall be submitted in accordance with Section 01330, and the following:
  - 1. Bill of Materials, including references to relevant industry standards (i.e., ASTM, ANSI, ASME, AWWA, etc.)
  - 2. Outside diameter, wall thickness, internal design pressure for each class of pipe to be furnished.
  - 3. Locations of bulkheads for field hydrostatic testing of pipeline at approx. 2,000 ft. intervals.
  - 4. Manufacturer’s certificates of compliance with prescribed industry standards (i.e., AWWA C-906, C-207, C115, ANSI B16.1, B16.5. etc.) shall be provided with pipe delivery or upon request.
- 1.2.2 Detail drawings of:

- a. PPI TR-33 Generic Butt Fusion Joining Procedure for Polyethylene Gas Pipe
- b. PPI TR-34 Disinfection of Newly Constructed Polyethylene Water Mains
- c. PPI TN-42 Recommended Minimum Training Guidelines for PE Pipe Butt Fusion Joining Operators for Municipal and Industrial Projects (2009)

## 2. **ASTM**

- a. ASTM F 714 Standard Specification for Polyethylene (PE) Plastic Pipe (SDR- PR) Based on Outside Diameter
- b. ASTM F905 Standard Practice for Qualification of Polyethylene Saddle-Fused Joints
- c. ASTM F 1055 Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing
- d. ASTM F 1290 Standard Practice for Electrofusion Joining Polyolefin Pipe and Fittings
- e. ASTM F 1412 Standard Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems
- f. ASTM F 2164 Standard Practice for Field Leak Testing of Polyethylene (PE) Pressure Piping Systems Using Hydrostatic Pressure
- g. ASTM F2206 Standard Specification for Fabricated Fittings of Butt-Fused Polyethylene (PE) Plastic Pipe, Fittings, Sheet Stock, Plate Stock, or Block Stock
- h. ASTM D 2239 Standard Specification for Polyethylene (PE) Plastic Pipe (SIDR- PR) Based on Controlled Inside Diameter
- i. ASTM F 2620 Standard Practice for Heat Fusion Joining of Polyethylene Pipe and Fitting
- j. ASTM D 2683 Standard Specification for Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing
- k. ASTM D 2737 Standard Specification for Polyethylene (PE) Plastic Tubing
- l. ASTM D 2774 Standard Practice for Underground Installation of Thermoplastic Pressure Piping
- m. ASTM D 3261 Standard Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing
- n. ASTM D 3350-08 Standard Specification for Polyethylene Plastics Pipe and Fittings Materials

## 1.2 **SUPPLIER MINIMUM QUALIFICATIONS**

The supplier shall **use a manufacturer that** is International Organization for Standardization (ISO) 9001 certified for sourcing, delivery, manufacturing and equipment supply for HDPE pipe systems. Subcontracting by the Supplier shall not be utilized in order to meet the

requirements herein, nor the performance of this Work. The supplier of the HDPE pipe and fittings shall meet the following minimum requirements:

1. All pipe, fittings, and related HDPE appurtenances shall be supplied by a single company.
2. The **manufacturer** must be capable of manufacturing special fittings within its manufacturing facility.
3. The Supplier must be an authorized agent of the fusion equipment, with authority to rent, sell and service fusion equipment.
4. All of supplier's fusion technicians executing this Work shall have no less than 5 years of experience in performing butt weld fusions and shall have worked for the Supplier for no less than 1 year.

### **1.3 DELIVERY – STORAGE – HANDLING**

**1.3.1** Handle the pipe in accordance with the PPI Handbook of Polyethylene Pipe (2<sup>nd</sup> Edition), Chapter 2 using approved strapping and equipment rated for the loads encountered. Do not use chains, wire rope, forklifts or other methods or equipment that may gouge or damage the pipe or endanger persons or property. Field storage is to be in compliance with the manufacturer's recommendations.

**1.3.2** Where gouges, scrapes, or other damage to the pipe results in loss of 10% of the pipe wall thickness, cut out that section of pipe or remove from the site.

## **PART 2 – MATERIALS**

### **2.1 RESIN AND MATERIAL REQUIREMENTS**

**2.1.1** Materials used for the manufacture of all polyethylene pipe, fittings and appurtenances shall be PE4710 high density polyethylene meeting a minimum cell classification 445574C per ASTM D3350 with a standard pressure rating of 200 psi at 73°F per ASTM D-2837. The Manufacturer shall certify that the materials used to manufacture pipe and fittings meet these requirements.

**2.1.2** The pipe shall contain no recycled compounds except that generated in the manufacturer's own plant from resin of the same specification and from the same raw material. Maximum allowable internal recycle (regrind) shall be 10%.

### **2.2 MANUFACTURING**

#### **2.2.1 HDPE Pipe**

All HDPE pipe shall be manufactured in the United States, in straight 53-foot or 55-foot lengths to maximize shipping efficiency. HDPE Pipe shall conform to the DR specified Iron Pipe Size (IPS) size and NSF 61 Standard. Polyethylene pipe