This addendum to the specifications is for the purpose of adding, clarifying, or deleting certain information to the construction drawings and project specifications as follows:

**NOTICE INVITING BID**

**ADD** the following NIB-8A in its entirety:

**NIB-8A. Subcontractor Classification.** Subcontractor(s) for the Phase 1A Well Pipelines work will be required to be licensed by the State of California as a **Classification A – General Engineering** or **Classification C-34 – Pipeline Contractor** at the time of the bid and at the time of award as such license is defined in Section 7056 and/or Section 7058 of the Business and Professional Code and Section 732 of the California Administrative Code.

**BIDDING REQUIREMENTS**

**ADD** 00054 Pipe Zone Density Chart (PVC) attached herein

**BIDDING SHEETS**

**SCHEDULE A – WELL 201**

**REVISE** BS-1 as follows:

1 1 LS Approved: Bonds, Insurance, and EN-29 Breakdown of Contract Price for all three (3) Well Bid Schedules.

---

One hundred twenty eight thousand dollars $ \underline{128,000}$

(words)
ADD the following bid schedule:

**SCHEDULE D – PHASE 1A WELL PIPELINES**

<table>
<thead>
<tr>
<th>Bid Item</th>
<th>Qty</th>
<th>Unit</th>
<th>Description</th>
<th>Price (Figures)</th>
<th>Amount (Figures)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>LS</td>
<td>Mobilization, Demobilization, and Approved: Bonds, Insurance, and EN-29 Breakdown of Contract Price.</td>
<td>Fifty-Five Thousand Dollars</td>
<td>$ PRESET $ 55,000</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>LS</td>
<td>Furnish and Install 8-inch diameter C-900 PVC potable water pipeline in E. Shaver Street- including shoring, excavation, bedding, backfill, valves, fittings, connections, thrust restraint, appurtenances, water services, pavement removal, pavement repair/replacement, clearing, grubbing, site restoration, pressure testing, disinfection, traffic control, removals of existing pipeline, all labor, materials, and equipment, as shown on the contract drawings and specifications complete and in place.</td>
<td>$ Lump Sum</td>
<td>(words)</td>
</tr>
</tbody>
</table>
3 1 LS Furnish and Install 12-inch diameter C-900 PVC raw/blow-off water pipeline- including shoring, excavation, bedding, backfill, valves, fittings, thrust restraint, connections, appurtenances, pavement removal, pavement repair/replacement, clearing, grubbing, site restoration, pressure testing, disinfection, traffic control, removals of existing pipeline, all labor, materials, and equipment, as shown on the contract drawings and specifications complete and in place.

________________________________________

$ Lump Sum $ ____________________ (words)

4 1 LS Furnish and Install 18-inch diameter C-900 PVC raw/blow-off water pipeline- including shoring, excavation, bedding, backfill, valves, fittings, thrust restraint, connections, appurtenances, pavement removal, pavement repair/replacement, clearing, grubbing, site restoration, pressure testing, disinfection, traffic control, removals of existing pipeline, all labor, materials, and equipment, as shown on the contract drawings and specifications complete and in place.

________________________________________

$ Lump Sum $ ____________________ (words)

5 1 LS ADDITION OR DEDUCTION

Circle one (If applicable):

Addition (+)

Deduction(-) $ ________________

(words)
TOTAL SCHEDULE D (Items 1-5) $________________________

EQUIPMENT AND MATERIAL

ADD the following to Equipment and Material:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MANUFACTURER</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWWA C-900 PVC Pipe</td>
<td></td>
</tr>
<tr>
<td>Ductile Iron Fittings</td>
<td></td>
</tr>
<tr>
<td>Resilient Seated Gate Valves</td>
<td></td>
</tr>
<tr>
<td>Tapping Sleeve/Saddle</td>
<td></td>
</tr>
<tr>
<td>Joint Restrainers</td>
<td></td>
</tr>
<tr>
<td>Butterfly Valves</td>
<td></td>
</tr>
</tbody>
</table>

THE BIDDING SHEETS HAVE BEEN UPDATED AND ARE INCLUDED IN THE REVISED PROPOSAL PACKAGE MADE A PART OF THIS ADDENDUM. FAILURE TO SUBMIT THE REVISED PROPOSAL PACKAGE “MAY” DEEM YOUR BID NON-RESPONSIVE

SPECIAL CONDITIONS

ADD the following to SC-05

SC-05. Location of Contract Work Site. The contract work sites are existing District properties located as follows:

- Phase 1A Well Pipelines: Refer to NIB-3, herein and Contract Drawings for specific locations.
ADD SC-43 as follows:

**SC-43. Construction Survey and Soils Tests.** Upon Contractor's request, District will provide construction survey and soil compaction testing for the project. However, any cost of re-staking or re-compaction due to the Contractor's negligence will be at the Contractor's expense. A 48-hour notice is required for survey and soil services.

ADD SC-44 as follows:

**SC-44. Tracer Wire.** Tracer wire is to be placed over any and all pipelines regardless of product and electrical banks pipelines to be installed on this project. After all trench backfill operations are complete, the District shall pay for and conduct the locatability test to confirm that the wire is continuous. The Contractor shall be responsible for all costs to confirm, locate and repair any breaks in the tracer wire identified in the locatability test.

In addition, the Contractor shall reimburse the District for all costs to retest repaired sections of the wire. The Contractor is advised to use care in the installation and backfilling operations to prevent damage to the wire.

Tracer wire shall be a #14 AWG (0.0641” diameter) fully annealed, high carbon 1055 grade steel, high strength solid copper clad steel conductor (HS-CCS), insulated with a 30 mil, high-density, high molecular weight polyethylene (HDPE) insulation and rated for direct burial use at 30 volts. HS-CCS conductor must be at 21% conductivity for locating purposes. Break load of 282 pounds. HDPE installation shall utilize virgin grade material. Insulation color shall meet the APWA color code standard for identification of buried utilities.

Manufacturers supplying copper clad steel tracer wire must have available detailed performance data including 5 years of underground testing in terms of durability related to damage of protective insulation and effects of potential corrosion of the specific copper clad steel used. Origin of copper clad steel manufacturer is required and steel core must be manufactured in the United States. If manufacturer has not completed 5 year corrosion testing, a 5-year warranty must be provided.
ADD SC-45 as follows:

**SC-45. Control Density Fill (CDF):** The Contractor will be required to use CDF, in accordance with Section 02252 as backfill in areas under and around existing mainline utilities, and all utility crossings of the proposed underground piping and appurtenances. CDF shall be placed from the bottom of the excavation to the center grade of the utility, and shall extend five feet each side of the existing facility. All costs associated with furnishing and placing CDF shall be included in the respective bid item.

ADD SC-46 as follows:

**SC-46. Existing Underground Utilities and Potholing for Existing Utilities.** Unless otherwise indicated on the plans or directly by the utility owner, all utilities shall be protected in place and service maintained as described in Section 02201 Part 1.02 of the Specifications. Utilities crossing the proposed water pipeline alignment are plotted on the plan view of the plans. The utilities were plotted based on information provided from the respective utility owners. The accuracy of plotted utilities is not guaranteed as indicted in Section F-25 of the General Conditions.

Existing utilities have been identified and located on the plans based on the best information available. The Contractor is responsible for performing exploratory excavations (potholing) along the alignment of the project to confirm location of existing utilities and to establish connection requirements to existing pipelines. **All Contractors under contract with EMWD are hereby granted permission to use vacuum excavation on EMWD facilities. Vacuum excavations may not be used on any other facilities unless written permission is obtained from the owner of the facility in accordance with State Law 4216.** The Contractor shall field survey the elevation and location of utilities, including tie-in points, and provide the information to the District’s inspector a minimum of two weeks ahead of construction to permit design revisions should a conflict arise. All associated costs with potholing shall be included in the unit bid price per lineal foot of pipe stated in the Schedule of Values and no additional compensation will be allowed.

ADD SC-47 as follows:

**SC-47. Disposal of Existing ACP Water Pipe.** As part of the proposed construction, existing (abandoned) Asbestos Cement Pipe (ACP) must be removed to install the proposed raw water pipeline(s). The cutting of ACP will not be permitted, and contractor must remove ACP at nearest joint(s). The contractor shall comply with all Federal, State and Local regulations regarding removal and disposal of ACP. Removal and disposal of existing ACP shall be done by a certified contractor in accordance with federal, state and local regulations.
Copies of the certification shall be submitted to the District prior to the commencement of any ACP removal activities. Contractor will obtain a permit from Riverside County Office of Environmental Health and a permit from SCAQMD for asbestos removal and disposal. The contractor shall be responsible for the proper identification, removal and disposal of all ACP.

ADD SC-48 as follows:

SC-48. **Provisions for Securing of Trenches.** Trenches within the street right-of-way must be secured daily. This can be accomplished with recessed traffic plates (B-934) or backfilled and temporary pavement (2-inch minimum) placed at the end of each workday, all as applicable to Encroachment Permit requirements. The cost of securing trenches shall be included in the bid and no additional compensation will be allowed.

ADD SC-49 as follows:

SC-49. **Pavement Repair, Replacement, and Recapping.** Trench repair and pavement repair/replacement shall be in accordance with the City of San Jacinto standard drawing for Utility Trench Surface Repair, and encroachment permit requirements.

The cost for all trench pavement repair/replacement and pavement overlay shall be included in the respective bid items.

ADD SC-50 as follows:

SC-50. **Traffic Control.** The Contractor shall investigate and determine the extent of traffic control necessary and required, including the preparation and implementation of traffic control plans that meets agency requirements, and obtain necessary approvals from the agencies having jurisdiction of the traffic control plan. Contractor shall purchase or rent and maintain traffic warning signs, barricades, flagmen, and other traffic control devices as required and to provide a safe work zone and maintain traffic flow, as required by agencies having jurisdiction over the roadways in the work area. The cost for this work shall be included in the respective bid items. No additional compensation and time extension will be provided.

ADD SC-51 as follows:

SC-51. **Well Pipeline Sequencing (E. Shaver Street).** Contractor must complete the potable water pipeline, including all successful disinfection and testing, in advance of commencing construction of the raw water pipeline in E. Shaver Street.
SECTION P – CONTRACT DRAWINGS

ADD the following to P-02:

P-02.  Standard Drawings (Phase 1A Well Pipelines).

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-255</td>
<td>Installation of Vertical Gate Valves</td>
</tr>
<tr>
<td>B-286B</td>
<td>Trench Backfill</td>
</tr>
<tr>
<td>B-288</td>
<td>Steel Flanges, 4” to 54”</td>
</tr>
<tr>
<td>B-357</td>
<td>Blow-Off Installation</td>
</tr>
<tr>
<td>B-367</td>
<td>2-inch Air Valve Installation</td>
</tr>
<tr>
<td>B-407</td>
<td>Thrust Block Installation</td>
</tr>
<tr>
<td>B-408</td>
<td>Water Pipe Installation and Concrete Cap Detail for ACP, PVC, and DI Pipe</td>
</tr>
<tr>
<td>B-577</td>
<td>Installation of Butterfly Valves</td>
</tr>
<tr>
<td>B-598</td>
<td>1-inch Air Valve Installation</td>
</tr>
<tr>
<td>B-663</td>
<td>Standard Restraint for PVC Pipe</td>
</tr>
<tr>
<td>B-668</td>
<td>Valve Cap &amp; Riser Detail</td>
</tr>
<tr>
<td>B-934</td>
<td>Recessed Trench Plate Detail</td>
</tr>
<tr>
<td>D-672</td>
<td>Chain Link Fence Details</td>
</tr>
<tr>
<td>N/A</td>
<td>City of San Jacinto Utility Trench Surface Repair</td>
</tr>
</tbody>
</table>

ADD the following to P-03:

P-03.  Construction Drawings (Phase 1A Well Pipelines).

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-55946</td>
<td>Title Sheet, Location, and Vicinity Map</td>
</tr>
<tr>
<td>D-55947</td>
<td>General Notes, Sheet Index, Legend, and Abbreviations</td>
</tr>
<tr>
<td>D-55948</td>
<td>Horizontal Control</td>
</tr>
<tr>
<td>D-55949</td>
<td>Well 201 Pipeline Plan and Profile- Sta. 9+55.48 to Sta. 18+50.00</td>
</tr>
<tr>
<td>D-55950</td>
<td>Well 201 Pipeline Plan and Profile- Sta. 18+50.00 to Sta. 27+00.00</td>
</tr>
<tr>
<td>D-55951</td>
<td>Well 201 Pipeline Plan and Profile- Sta. 27+00.00 to Sta. 33+42.5+/-</td>
</tr>
<tr>
<td>D-55952</td>
<td>Well 202 Pipeline Plan and Profile- Sta. 100+00.00 to Sta. 100+92.5+/-</td>
</tr>
<tr>
<td>D-55953</td>
<td>Well 202 Pipeline Plan and Profile- Sta. 200+00.00 to Sta. 210+50.00</td>
</tr>
<tr>
<td>D-55954</td>
<td>Well 203 Pipeline Plan and Profile- Sta. 534+15.34 to Sta. 538+04.26</td>
</tr>
<tr>
<td>D-55955</td>
<td>Well 203 Pipeline Plan and Profile- Sta. 210+50.00 to Sta. 219+47.5+/-</td>
</tr>
<tr>
<td>D-55956</td>
<td>8” Potable Pipeline Plan and Profile- Sta. 30+00.00 to Sta. 35+47.7+/-</td>
</tr>
<tr>
<td>D-55957</td>
<td>Pipeline Cross Sections</td>
</tr>
<tr>
<td>D-55958</td>
<td>Connection Details</td>
</tr>
<tr>
<td>D-55959</td>
<td>Miscellaneous Details</td>
</tr>
</tbody>
</table>
**EMWD DETAILED PROVISIONS**

*ADD the following to Detailed Provisions*

- 01026  Schedule of Values  
  1 thru 4
- 02050  Demolition and Salvage  
  1 thru 2
- 02201  Construction Methods and Earthwork  
  1 thru 26
- 02252  Control Density Fill  
  1 thru 4
- 02444  Chain Link Fencing  
  1 thru 6
- 02505  Roadway Base Course  
  1 thru 4
- 02513  Asphalt Concrete Paving  
  1 thru 4
- 02718  Installation of Water Pipeline  
  1 thru 22
- 02725  Installation of Copper Pipe and Tubing  
  1 thru 2
- 03150  Formwork for Cast-in-Place Concrete  
  1 thru 6
- 13446  Valve and Gate Operators  
  1 thru 6
- 15057  Ductile Iron Water Pipe and Fittings  
  1 thru 6
- 15064  Plastic (PVC) Water Pipe and Fittings  
  1 thru 4
- 15102  Resilient-Seated Gate Valves  
  1 thru 4
- 15103  Butterfly Valves  
  1 thru 4
- 15136  Air Valves  
  1 thru 2

**APPENDICES**

*ADD Appendix C as follows:*

Appendix C  Geotechnical Baseline Report (Phase 1A Well Pipelines) attached herein.

**QUESTIONS & ANSWERS**

**United Rentals Trench Safety**

Q1. Is there a need for shoring on this project? Is this just testing only?

A1. The conductor casing functions as shoring for well drilling projects. Shoring for pipeline work shall be installed consistent with District standards and as outlined in the appropriate addenda
Q1. Please clarify the non-hazardous Binding Agent must be used in SC-38 for spreading of cuttings? SC-38 States the cuttings may be spread on site at 201 and 202 while cuttings from 203 must be brought to 201 to spread, section 02734-5 Section b states cuttings may not be spread on site, please confirm if cuttings may be spread on site in accordance to SC-38.

A1b. Drill cuttings shall have a binding agent applied to avoid potential future fugitive dust from leaving the site. The District has used envirotac II from Environmental Products and Applications, Inc. as such a binding agent at current District facilities. The District will review submittals to ensure any substances submitted for use are in compliance with the Special Condition.

Q2. For Zone sampling, will the tool need to be pulled out and inspected and cleaned, or may it be pulled to the next interval?

A2. The District requires clean samples. The contractor shall meet the requirements of the specification. The District does not typically dictate means and methods.

Q3. Contract has 300 calendar days, do these calendar days exclude the 120 hour standby time to review logs for potential zone analysis as well as the time to make a decision on the design and requirements for materials to be on site prior to the ream?

A3. No, the 300 calendar days contract time includes standby time, review time, and design time, and time for materials to be received.

Q4. Will the geohydrologist and district allow two drill rigs to work on multiple sites simultaneously?

A4. Yes, the District anticipates two drill rigs to work on multiple sites simultaneously to meet the required contract duration for 24/7 drilling operations.

Q5. In reference to SC-37, is EMWD responsible for any damages to surrounding structures if engineered gravel design doesn’t work to its intended use?

A5. The insurance requirements/coverage of the contractor for the project are anticipated to cover any damages should they occur. If the contractor has alternative recommendations for vibration dampening they should be submitted with associated costs in the bid.

Q6. Follow up to my previous question, in reference to SC-37 will gravel brought at site 203 be left for future use or need to be hauled away at project completion?

A6. Gravel shall be spread on site at end of project.
Eastern Municipal Water District

Paul D. Jones II, P.E.
General Manager

PDJ: CW: ae

ATTACHMENTS:

Pipe Zone Density Chart (PVC)
Bid Proposal
Standard Drawings (Phase 1A Well Pipelines)
Construction Drawings (Phase 1A Well Pipelines)
EMWD Detailed Provisions
Appendix C - Geotechnical Baseline Report (Phase 1A Well Pipelines)