August 13, 2020

**ADDENDUM NO. 3 TO SPECIFICATION NO. 1414W**  
Wells 65, 66 & 204 Drilling & Testing

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:

**BIDDING SHEETS**

*REPLACE* Schedule A - Well 65 bid item 3 in its entirety with the following:

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Unit</th>
<th>Description</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>LS</td>
<td>Discharge of Well 65 development and testing water will be pumped to the point of discharge (outlined in SC-39). Install discharge pipelines and pumps from onsite settling tanks to the highline running from Well 66 site to the point of discharge (Heacock Street). Install discharge pipelines and pumps from Well 65 site to Well 66 site utilizing the existing 12-inch raw water pipeline to discharge water into the above-ground storage tank at Well 66 site</td>
<td>$ Lump Sum</td>
<td>$</td>
</tr>
</tbody>
</table>

(continued)
REVISE Schedule A – Well 65 bid item 4 as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Unit</th>
<th>Description</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1</td>
<td>LS</td>
<td>Retain California Certified Environmental Testing Laboratory for testing of soil cuttings (if required) and effluent water generated prior to disposal and discharge, respectively. If required, composite soil samples from the drill cuttings stockpile will be tested prior to disposal for TPH by EPA 8015B, VOCs by EPA 8260B, Title 22 metals by EPA 6010B/7471A. Groundwater samples will be tested prior to discharge to comply with the District’s NPDES Permit (Section 00066 – H) including analysis of VOCs by EPA 8260B, perchlorate and nitrate by EPA 300.0, at a minimum weekly thereafter for the duration of the project, and once prior to end of discharge. Groundwater samples will be tested for constituents identified by EMWD local sewer limits applicable to permit users (Section 00066-H Special Agreement Sewer Discharge Table 1) and VOCs, SVOCs, perfluorinated compounds (PFOS and PFOA) and perchlorate, prior to discharge, at a minimum monthly thereafter for the duration of the project, and once prior to the end of discharge</td>
<td>$ Lump Sum</td>
<td>$</td>
</tr>
</tbody>
</table>

(words)
REPLACE Schedule B - Well 66 bid item 3 in its entirety with the following:

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Unit</th>
<th>Description</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>LS</td>
<td>Prepare Well 66 site for installation of a 1 million gallon (minimum) above-ground storage tank. Install storage tank, discharge pipelines, flow meters, and pumps to discharge water at a flow rate of 600 gallons per minute (gpm), maximum, via a highline to the point of discharge on Heacock Street. A check valve or air gap shall be installed before discharge into sewer</td>
<td>$ Lump Sum</td>
<td>$</td>
</tr>
</tbody>
</table>

REVISE Schedule B – Well 66 bid item 4 as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Unit</th>
<th>Description</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1</td>
<td>LS</td>
<td>Retain California Certified Environmental Testing Laboratory for testing of soil cuttings (if required) and effluent water generated prior to disposal and discharge, respectively. If required, composite soil samples from the drill cuttings stockpile will be tested prior to disposal for TPH by EPA 8015B, VOCs by EPA 8260B, Title 22 metals by EPA 6010B/7471A. Groundwater samples will be tested prior to discharge to comply with the District’s NPDES Permit (Section 00066 – H) including analysis of VOCs by EPA 8260B, perchlorate and nitrate by EPA 300.0, at a minimum weekly thereafter for the duration of the project, and once prior to end of discharge. Groundwater samples will be tested for constituents identified by EMWD local sewer limits applicable to permit users (Section 00066-H Special Agreement Sewer Discharge Table 1) and VOCs, SVOCs, perfluorinated compounds (PFOS and PFOA) and perchlorate, prior to discharge, at a minimum monthly thereafter for the duration of the project, and once prior to the end of discharge</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

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

NOTICE INVITING BID

NIB-4.1 Pre-Bid Teleconference
ADD NIB-4.1 as follows:

A pre-bid teleconference will be scheduled to review Addendum No. 3 with all bidders at 8:00 a.m. on Monday, August 17, 2020. Click on JOIN MICROSOFT TEAMS MEETING below to join the meeting or dial in at the number listed below. You can also access the link on the website at www.emwd.org, Doing Business, Construction, Construction Bid Opportunities.

Join Microsoft Teams Meeting

+1 951-384-0840 United States, Riverside (Toll)
Conference ID: 428 436 212#

SECTION H

DELETE NPDES No. CAG998001 in its entirety.

SPECIAL CONDITIONS

SC-02. Scope of Work.
REVISE SC-02, paragraph 1 as follows:

Under these Specifications the Contractor shall perform all work required to provide the District with three (3) new fully developed and tested municipal supply water wells in accordance with these specifications and the contract drawings. These wells shall be constructed in the following sequence: Well 65, Well 204, and Well 66. In addition, the sewer and manhole connections detailed in Drawings D59932-D59935 shall be completed prior to the start of well drilling/construction at Well 204 Site. Additionally, a temporary above-ground storage tank, with a minimum capacity of 1 million gallons, shall be installed at the Well 66 Site, shown in Revised Figure 3 – EMWD 66: Example Site Layout, and shall be completed prior to start of the mechanical development at the Well 65 Site.

WELLS 65 and 66: Delete in its entirety and replace with the following:

The Contractor shall prepare and install an above-grade storage tank (tank), with a minimum storage capacity of 1 million gallons, on the Well 66 Site and be completely responsible for containment, removal and disposal of all, development and testing water in accordance with applicable permits, rules, regulations and these specifications for Wells 65 and 66.
The point of water discharge for Wells 65 and 66 shall be at the sewer lateral connection on Heacock Street, directly west of the Well 65 Site as depicted on Figure 2 in Section P. The sewer lateral will be installed by EMWD prior to Contractor mobilization on Wells 65 and 66. Maximum discharge flow rate to the sewer will be 600 gallons per minute (gpm). Water generated from the Well 65 Site can be discharged directly to the sewer (maximum flow rate of 600 gpm) and/or pumped to the Well 66 Site utilizing the current 12-inch raw water line running from Well 65 to Well 66 Site. Pipelines, pumps, and flow meters will be installed from the tank to the point of discharge in accordance with the maximum discharge flow rate of 600 gpm. A check valve or air gap shall be installed prior to discharge into the sewer.

Water generated from Well 66 Site can be stored in the above-ground storage tank and discharged to the point of discharge in accordance with the maximum discharge flow rate of 600 gpm.

Points of water discharge include:

- Early Phase Fluids: Highly turbid fluids (fluids with turbidity values greater than 150 NTUs) from drilling, aquifer zone testing, well construction, mechanical development and pumping development activities shall flow through onsite settling tanks to be clarified prior to discharge directly to the sewer and/or to the above-ground storage tank before discharging to the sewer, at a maximum flow rate of 600 gpm, by the Contractor.

- Latter Phase Fluids: Lower turbid fluids (fluids with turbidity values less than 150 NTUs) from pumping development and pump testing activities are to be discharged to the above-ground storage tank before discharging to the sewer, at a maximum flow rate of 600 gpm, by the Contractor.

The Contractor shall, at the Contractor’s expense, supply all necessary materials, excavation equipment, compaction testing equipment, fill materials, temporary storage tanks, chemicals, discharge piping, pumps, erosion control facilities, lighted barricades, power and appurtenances of appropriate capacity and length to clarify, treat, pump and safely dispose well water at the specified point(s) of discharge.

Prior to discharge, all water produced from the site shall be clarified and treated as needed to meet the applicable requirements of the District’s Special Agreement for Discharge to the Sewer (Section H – Permits). Discharge water will include reduction in total suspended solids through a series of settling tanks. Water samples will be collected at the end of the series of settling tanks for testing prior to discharge. The water samples will be analyzed on a 24-48-hour turn-around-time for the constituents of concern identified by EMWD Local Sewer Limits Applicable to Permit Users (Section 00066 – H Special Agreement Sewer Discharge Table 1) and VOCs, SVOCs, Perfluorinated Compounds (PFOS and PFOA) and perchlorate, prior to discharge, at a minimum monthly thereafter for the duration of the project, and once prior to end of discharge. Contractor will provide District with laboratory results and discharge will require EMWD’s prior authorization. The contractor will coordinate with EMWD prior to discharge and provide notification to EMWD’s sewer operation contact. Discharge during rain events will require EMWD’s prior authorization.
A minimum of three (3) onsite storage tanks (Baker or Rain-for-Rent tanks) of suitable size, connected in series, shall be used to hold, clarify and treat all drilling fluids, development and testing water prior to discharge. Dug pits for solids settling are not permitted without prior District approval.

The Contractor shall take whatever steps are necessary to ensure public safety and prevent damage to discharge facilities from local traffic or the public. The Contractor shall restore all affected property to its original condition upon completion of well construction.

SECTION P – CONTRACT DRAWINGS

REPLACE P-03 Figure 2 EMWD 65: Example Site Layout and Figure 3 EMWD 66: Example Site Layout figures with attached.

DETAILED PROVISIONS

Section 02734 (Custom), Water Well Drilling, Casing And Testing Wells 65 And 66

REVISE Part 1.03, WELL CONSTRUCTION SUMMARY, D. as follows:

Provide adequate temporary tanks and filter bags for settlement of solids and reduction of turbidity, Granular Activated Carbon (GAC) and Ion exchange filter systems for reduction of volatile organic compounds (VOCs), nitrate and perchlorate from all well development and testing water prior to release to the point of discharge. Provide adequate temporary tanks for reduction of turbidity and settlement of solids from all development and well water prior to discharge. Retain California Certified Environmental Testing Laboratory for testing of soil cuttings (if required) and effluent water generated prior to disposal and discharge, respectively. If required, soil samples will be tested prior to disposal for TPH by EPA 8015B, VOCs by EPA 8260B, Title 22 metals by EPA 6010B/7471A. Water samples will be tested prior to discharge for the constituents outlined in the NPDES permit (Section H) as well as for VOCs by EPA 8260B, perchlorate and nitrate by EPA 300.0, at a minimum weekly thereafter for the duration of the project, and once prior to the end of discharge. The water samples will be analyzed on a 24-48-hour turn-around-time for the constituents of concern identified by EMWD Local Sewer Limits Applicable to Permit Users (Section 00066 – H Special Agreement Sewer Discharge Table 1) and VOCs, SVOCs, Perfluorinated Compounds (PFOS and PFOA) and perchlorate, prior to discharge, at a minimum monthly thereafter for the duration of the project, and once prior to the end of discharge.

REVISE Part 1.04, CONTRACTOR EQUIPMENT, D. Water Storage Tanks as follows:

The Contractor shall utilize an above-ground storage tank with a minimum capacity of 1 million gallons. The Contractor shall utilize at least three, more may be required, 20,000 gallon “Baker Tanks” or approved equal for the retention and reduction of turbidity of fluids generated during the course of the work, prior to their discharge. The tanks shall be joined in series such that water flows between the tanks to maximize settling time and minimize disturbance of settled materials. Water storage and clarification facilities utilized shall be sufficient to meet water discharge requirements of the District’s applicable permit(s).
Pipelines or hoses used to link the Baker Tanks and convey clarified water to the point of discharge shall be of a capacity sufficient to handle the maximum quantity of water that can be produced from the well during mechanical and pumping development along with pumping test as required.

*DELETE in its entirety Part 1.04, CONTRACTOR EQUIPMENT, E. Water Treatment System.*

*DELETE in its entirety Part 1.07, RECORDS, O.*

*REVISE* Part 2.07, PART 3 – EXECUTION, PART C. Analysis of Water Samples, Bullet Number 4. as follows:

Based on the laboratory results of the isolated aquifer zone testing, the District will provide direction for Water Treatment System required prior to discharge. The District will also provide direction for testing of drill cuttings based on the results of the isolated zone aquifer testing (refer to Special Conditions SC-38).

*DELETE* from Table 02734-1 Summary of Submittals* Detail Provisions Section 02734, the following row under Work Phase: Pilot Borehole

| Water Treatment System (filter bags, GAC treatment train and media, ion exchange) | 2.07 | Due in the field each day |

Eastern Municipal Water District

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

PE: [Signature]
PM: [Signature]
DFE: [Signature]
DE: [Signature]

PDJ:MW:ae

ATTACHMENTS: Proposal Package
Figure 2 EMWD 65: Example Site Layout
Figure 3 EMWD 66: Example Site Layout

Page 7 of 7 Specification No. 1414W Addendum No. 3