November 15, 2018

ADDENDUM NO. 1 TO SPECIFICATION NO. 1318W
Fox Street 1MG Tank and Pipeline Project

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:

SPECIAL CONDITIONS

ADD SC-75 as follows:

SC-76. **Color Schedule.** Color selections shall be as indicated in the table below.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>LOCATION</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASONRY WALLS – CMU, SPLIT FACE</td>
<td>EXTERIOR</td>
<td>WHEAT BY ORCO BLOCK OR EQUAL</td>
</tr>
<tr>
<td>MASONRY WALLS – CMU, PRECISION</td>
<td>INTERIOR</td>
<td>WHEAT BY ORCO BLOCK OR EQUAL</td>
</tr>
<tr>
<td>MASONRY WALLS – GROUT</td>
<td>INTERIOR, EXTERIOR</td>
<td>INTEGRAL COLOR (MATCH BLOCK)</td>
</tr>
<tr>
<td>TANK</td>
<td>EXTERIOR</td>
<td>EMWD BUFFALO (SEE APPENDIX A)</td>
</tr>
<tr>
<td>PIPING, VALVES, APPURtenances – ABOVE GRADE</td>
<td>EXTERIOR</td>
<td>EMWD DESERT TAN (SEE APPENDIX A)</td>
</tr>
<tr>
<td>MISCELLANEOUS</td>
<td>EXTERIOR</td>
<td>SEE SECTION 09900</td>
</tr>
</tbody>
</table>

SECTION P – CONTRACT DRAWINGS

P-02. Standard Drawings

REPLACE the following EMWD standard drawing, attached hereto:
Drawing No. B-984
P-05. Construction Drawings

REPLACE the following Contract drawings, attached hereto:
Drawing No. D-54568
Drawing No. D-54570
Drawing No. D-54578
Drawing No. D-54580
Drawing No. D-54583
Drawing No. D-54584
Drawing No. D-54585
Drawing No. D-54586
Drawing No. D-54606

ADD the following row to the Contract drawing list under paragraph P-05.

<table>
<thead>
<tr>
<th>Number</th>
<th>Drawing No.</th>
<th>Sheet</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>D-54610</td>
<td>CP-4</td>
<td>Cathodic Protection Details</td>
</tr>
</tbody>
</table>

MANDATORY PRE-BID WALK THROUGH

A mandatory pre-bid walk-through meeting was conducted on October 30, 2018 at 9:00 am.

NOTE: Refer to EMWDs website to obtain the Pre-Bid Walk-Through Sign-In Sheet.

QUESTIONS & ANSWERS

Pacific Hydrotech Corporation

Q1. At the pre-bid meeting the engineer mentioned it would be a balanced site that there would be no export. What size does the blasted rock need to be, in order to leave it onsite or reuse on site?

A1. Contractor shall balance the earthwork onsite. Refer to Special Condition SC-36 and Appendix B.

Per SC-36, “Any rock which exceeds 6 inches in maximum dimension is considered oversized and requires special procedures for placement in compacted fills. Up to 20 percent oversized rock up to 12 inches in maximum dimension may be incorporated into the nonstructural fills. No oversized rock should be placed within 6 inches of the final surface. The rock should be well mixed into at least 80 percent granular fill. Oversized rocks should be separated and not allowed to nest.”
Per Appendix B, Section 3.05, “Boulders (rocks greater than 12 inches in maximum dimension) may be exported from the site, reduced in size, placed as rock blankets or placed in windrows.” Each of these methods for handling of boulders is discussed individually in Appendix B, Section 3.05.

No rock shall be permitted in trench backfill, per SC-58.

Eastern Municipal Water District

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

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

PDJ:CRC:sf:jl

ATTACHMENTS:
Standard Drawing B-984
Drawing No. D-54568
Drawing No. D-54570
Drawing No. D-54578
Drawing No. D-54580
Drawing No. D-54583
Drawing No. D-54584
Drawing No. D-54585
Drawing No. D-54586
Drawing No. D-54606
MINIMUM GAPS SHOWN.

GRATING AND GRATING SUPPORT DESIGN BY CONTRACTOR.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FAVORABLE REVIEW BY DISTRICT ENGINEERING DEPARTMENT STAFF PRIOR TO FABRICATION. CONTRACTOR SHALL COORDINATE GRATING AND GRATING SUPPORT DESIGN WITH THE HATCH HOLD OPEN ARM, LIMIT SWITCH, AND ASSOCIATED CABLE AND CONDUIT. GRATING SUPPORTS SHALL BE SIZED AND ARRANGED SO AS TO PERMIT INSTALLATION OF SAID ITEMS OUTSIDE OF GRATING PERIMETER; NO CUTOUTS IN GRATING WILL BE PERMITTED.

SEE GENERAL NOTE 5.

GENERAL NOTES:
1. ROOF HATCH TO BE COATED THE SAME AS TANK.
2. ROOF HATCH Lid TO BE LEVEL AND LAY FLAT ON PLATFORM GRATING.
3. ALL ROOF HATCH AND FALL PROTECTION GRATING HARDWARE SHALL BE 316 STAINLESS STEEL.
4. MINIMUM GAPS SHOWN.
5. GRATING AND GRATING SUPPORT DESIGN BY CONTRACTOR.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FAVORABLE REVIEW BY DISTRICT ENGINEERING DEPARTMENT STAFF PRIOR TO FABRICATION. CONTRACTOR SHALL COORDINATE GRATING AND GRATING SUPPORT DESIGN WITH THE HATCH HOLD OPEN ARM, LIMIT SWITCH, AND ASSOCIATED CABLE AND CONDUIT. GRATING SUPPORTS SHALL BE SIZED AND ARRANGED SO AS TO PERMIT INSTALLATION OF SAID ITEMS OUTSIDE OF GRATING PERIMETER; NO CUTOUTS IN GRATING WILL BE PERMITTED.

SEE GENERAL NOTE 4 (TYP).

SQUARE ROOF HATCH
**GENERAL NOTES**

1. THE CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS FROM JURISDICTIONAL PERMIT AGENCIES FOR WORK WITHIN RIGHT-OF-WAYS.

2. ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURVES, CROSS SECTIONS, OR SURFACES OF THE STRUCTURES AND SHALL BE MARKED FOR LOCATION IN PRELIMINARY STAGES OF CONSTRUCTION.

3. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS REQUIREMENTS.

4. ALL WORK ACTIVITIES SHALL BE CONFINED TO PROPERTY, THE PUBLIC RIGHT-OF-WAY, OR DISTRICT UTILITY EASEMENTS.

5. ALL EXISTING UTILITIES UTILIZED ON THE DRAWINGS ARE SHOWN IN DIAGRAMMATICALLY AND ARE BASED ON FIELD RESEARCH AS BUILT DRAWINGS OR THE ORIGINAL CONSTRUCTION DRAWING.

6. ALL VERTICAL, HORIZONTAL AND INCLINATION MEASUREMENTS OF EXISTING UTILITIES ARE SHOWN IN THE FIELD. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR LEGALLY DISPOSING OF ALL EXISTING MATERIAL THAT IS REMOVED, UNLESS NOTED OTHERWISE.

**UTILITY CONTACTS**

<table>
<thead>
<tr>
<th>Utility Contact</th>
<th>Phone Number</th>
<th>Contact Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CITY OF MUNICIPAL WATER DISTRICT</td>
<td>(714) 936-7290</td>
<td>KEITH HOOPER</td>
</tr>
<tr>
<td>SOUTHERN CALIFORNIA EDISON</td>
<td>(909) 975-3398</td>
<td>DAVID ANDERSON</td>
</tr>
<tr>
<td>REDLANDS, CA 92374</td>
<td>(909) 335-7967</td>
<td>COZETTE MILES</td>
</tr>
<tr>
<td>TERRANCE, IN</td>
<td>(909) 335-7967</td>
<td>KEVIN MILES</td>
</tr>
</tbody>
</table>

**RESERVOIR DATA**

- **Nominal Capacity**: 1,920 MG
- **Usable Capacity**: 1,920 MG
- **Shell Height**: 120 FEET
- **Diameter**: 120 FEET
- **High Alarm**: 191.00
- **High Alarm Top of Reservoir Elevation**: 191.00
- **Pressure Zone**: 9 INCH DIAMETER (MIN)

**WATER NOTES**

1. WATER PIPELINE AND APPURtenant CONSTRUCTION SHALL BE IN ACCORDANCE WITH EASTERN MUNICIPAL WATER DISTRICT STANDARDS, SPECIFICATIONS AND DRAWINGS.

2. PRIOR TO CONSTRUCTION OF PIPELINE, CONTRACTOR SHALL POTHOLE EXISTING WATER SYSTEM FOR CONSTRUCTION AND LOCATION.

3. AIR VALVES ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH EMWD STD. DWG. B-805 (TYPE W).

4. WATER SYSTEM PROFILE ELEVATIONS ARE TO CENTERLINE (CENTER-GRAIN) OF PIPE.

5. INSTALL LOCATOR WIRE FOR WATER MAIN IN EMWD STD. DWG. B-456.

6. FIXED EYEWATER ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH EMWD STD. DWG. B-456.

7. BLOW OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH EMWD STD. DWG. B-456.

8. TEMPORARY BLOW OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH EMWD DWG. B-456.

9. ALL STEEL CYLINDER PIPE SHALL BE BONDED AT ROGUE GASKET JOINTS IN ACCORDANCE WITH EMWD DWG. B-456.

10. ALL DESIGNATED PIPELINES SHALL BE FULL WELD DOUBLE PASS AT EACH PIPE JINT WITH DESIGNATED WELD LIMITS.

11. SHOP DRAWINGS AND LAY LENGTH DIAGRAMS FOR DACL&C STEEL PIPE SHALL BE SUBMITTED AND APPROVED BY EMWD PRIOR TO FABRICATION.

12. ALL DACL&C STEEL PIPE SHALL BE CLASS 150 EXCEPT WHERE NOTED OTHERWISE.

13. ORANGE PLASTIC SNOW FENCING SHALL BE PROVIDED WHEN NECESSARY TO PROTECT EXISTING UTILITIES.

14. 1.03 MG CAPACITY.

15. ALL EXISTING UTILITIES THAT HAVE BEEN CLEARED WITH A NEAT AND FINISHED APPEARANCE FREE OF STONES, ROOTS, AND OTHER WASTE MATERIALS EXPOSED ON THE EXCAVATION IS REMOVED, UNLESS NOTED OTHERWISE.

16. SPECIFICATIONS AND SHALL BE SUBJECT TO THE APPROVAL OF THE DISTRICT.

**NOTIFICATIONS**

1. EASTERN MUNICIPAL WATER DISTRICT
2. PERMIT AGENCY
3. RIVERSIDE COUNTY TRANSPORTATION DEPARTMENT
4. OTHERALL AFFERED UTILITIES & PERMIT AGENCIES NOT USING USA

**ACCEP CALIFORNIA**

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES OR USES OF THESE PLANS. ALL WORK SHALL BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE WORK IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS, AND THE GENERAL CONDITIONS OF THE CONTRACT CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS, AND THE GENERAL CONDITIONS OF THE CONTRACT.

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ADDENDUM No. 1

WWF ENDS SHORT OF SURFACE 3" CUTOFF SLOPE FINISHED NATURAL GROUND

4' MIN CUT SLOPE TO BE 2:1 MAX FINISHED FILL SLOPE

NO. 1 10/18

SLOPE

SEE GEOTECHNICAL DRAWN:

RECOMMENDATION (KEYWAY ENGINEER'S OR STABILITY EQUIVALENT PER REVISIONS DESCRIPTION)

REMOVE UNSUITABLE MATERIAL

CHECKED:

APPROVED / DATE

8" CONCRETE

UNDISTURBED NATIVE SUBGRADE

NATIVE UNDISTURBED DENSITY.

90% OF LABORATORY MAX DRY CONDITION WITHIN 2% OF OPTIMUM, AND RECOMPACT TO 12" COURSE

12" DENSITY

CONDITION WITHIN 2% TO 95% OF LABORATORY AMAX

COMPACTED FILL, MOISTURE CONTENT WITHIN 2% OF OPTIMAL AND RECOMPACT TO 90% DRY DENSITY, DEPTH AVERAGED

REINFORCEMENT MESH 2" FROM 6"X6" 10/10 WIELDED WIRE

REINFORCEMENT MESH 2" FROM 6"X6" 10/10 WIELDED WIRE

BROW DITCH DETAIL

CONCRETE CROSS GUTTER

FILL OVER CUT DETAIL

CONCRETE DRIVEWAY DETAIL

CONCRETE PAD

SUB-GRADE COMPACTED TO 96% IC

BROOM FINISH 4" X 4" - W2.1 X W2.1 WWF

DIRECTOR OF ENGINEERING

APPROVED BY:

6" CONCRETE

EASTERN MUNICIPAL WATER DISTRICT

WATER OPERATION

MAINTENANCE

8" CONCRETE

CONCRETE PAD

SUBMITTED:

CHECKED:

TRACED:

DESIGNED:

08/18
NOTE:

EPOXY COAT INSIDE SURFACE OF 36" DIA PIPE AND BLIND FLANGE PER SPECIFICATIONS

1/2" DIA STEEL HANDLES, TYP
OF 2

36" DIA STEEL PIPE TANK SHELL

36" AWWA CLASS 'B' STEEL SLIP-ON FLANGE, DOUBLE WELDED W CLASS 'B' BLIND FLANGE AND FULL FACE RUBBER GASKET

REMOVABLE PIPE AND ROD HINGE WITH COTTER PIN BOTH ENDS BY TANK FABRICATOR

REINFORCING PLATE PER TANK MFG DESIGN

2'-0" TANK BOTTOM ELEVATION

SECTION A-A

A - BOTTOM REINFORCING PLATE

1/2" THK PREFORMED JOINT FILLER

BOTTOM PLATE

36" HEIGHT OF OPENING

6" MIN

6" MIN

1/8" THICK FULL-FACE FIBER SHEET GASKET

REINFORCEMENT PLATE PER AWWA D-100

4" 4" BLIND FLANGE

4" WELDED STEEL NIPPLE

4" RSGV

2" THK GALV STL GRATING (SPAN IN SHORTER DIRECTION). 19-4 PATTERN

4" BLIND FLANGE

ACCESS ROAD

EL1949.50

4" x 4" PRECAST CATCH BASIN

8" DRAIN PIPE

SEE DWG C-18

BOT EL 1945.35

SELF SUPPORTING HINGED DOOR WITH STAINLESS STEEL PIN AND HARDWARE

ONE 1/4" TELLTALE HOLE IN REINFORCING PLATE AT APPROX. MIDDLE HEIGHT (MIN)

REINFORCEMENT PLATE
PER AWWA D-100 REINFORCING. PLATE

NOTES:

1. TOP OF CONCRETE MINIMUM WALL NEED TO BE NOTCHED TO SUIT BOTTOM REINFORCING PLATE AND FLUSH-TYPE CLEANOUT MANHOLE PER AWWA D100-11 AND REQUIREMENTS OF API 650. CONTRACTOR SHALL VERIFY WITH TANK MANUFACTURER EXACT DIMENSIONS AND LIMITS OF REQUIRED WORK ON CONCRETE MINIMUM.

2. GUARDRAIL AND TOE PLATE SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS.

3. GUARDRAIL SHALL BE PAINTED WITH TANK EXTERIOR COATING.

ROOF PERIMETER GUARDRAIL

FLUSH MANWAY

NOTES:

1. GUARDRAIL AND TOE PLATE SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS.

2. GUARDRAIL SHALL BE PAINTED WITH TANK EXTERIOR COATING.