November 19, 2020

ADDENDUM NO. 1 TO SPECIFICATION NO. 1400S
Sky Canyon Sewer 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:

SECTION H
ADD Riverside County Transportation Department encroachment rider permit.

SPECIAL CONDITIONS

ADD SC-44 as follows:

SC-44. **Night Working Hours crossing Murrieta Hot Spring Road.** The Contractor shall perform work crossing Murrieta Hot Spring Road at night, including paving, beginning at 8:00 P.M., and ending at 5:00 A.M. and coordinate with the Transportation Department of the County of Riverside in accordance with encroachment permit and encroachment rider permit.

ADD SC-45 as follows:

SC-45. **Pipe Support and Protection Plan.** In accordance with the Riverside County Flood Control and Water Conservation District encroachment permit and prior to construction, the Contractor shall prepare and submit a pipe support and protection plan for crossing the existing 42-inch diameter storm drain in Murrieta Hot Springs Road to EMWD and Riverside County Flood Control and Water Conservation District for review and approval.

Prior to construction, Contractor shall prepare and submit to EMWD for review and approval a pipe support and protection plan for constructing the proposed sewer and manholes parallel and adjacent to EMWD’s existing 24-inch diameter water pipeline In Sky Canyon Drive.

ADD SC-46 as follows:

SC-46. **Vitrified Clay Pipe.** Since groundwater will be encountered, all pipe shall be treated for absorption resistance in accordance with Paragraph 2.01 of Specification Section 02761.
APPENDICES

ADD Riverside County Transportation Department Encroachment Rider Permit attached hereto to Appendix D.

ADD Additional groundwater level readings for the three piezometers conducted on October 27, 2020 to Appendix D. This is included as reference information.

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<th>Piezometer P-1</th>
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SECTION P – CONTRACT DRAWINGS

REPLACE the following drawings (revisions are shown as clouded areas):
D-59749 (Sheet C-9) Sewer Manhole Details
D-59750 (Sheet C-10) Miscellaneous Sewer Details

MANDATORY PRE BID WALK THROUGH

A mandatory pre-bid walk-through meeting was conducted on November 3, 2020, at 9:00AM.

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

**Olson Precast Company**

Q1. Plan sheet C-9 shows a detail of a 6’-0” manhole with a 7” wall thickness. This appears to be based on ASTM C-478 which is for concrete manholes. Polymer has a compressive strength of over 12,000 psi and should not require a 7” wall. Will the owner accept 6’-0” diameter polymer manholes with an industry standard of 3” thick walls with reinforcement? Structural calculations will be provided.

A1. Polymer concrete manholes may be provided using reduced thicknesses in accordance with ASTM D6783 as referenced in Specification Section 02081, but the reduced volume of concrete provided shall be replaced with backfill concrete to prevent buoyancy as required by Specification Section 02081. The minimum volume of concrete provided shall not be less than 850 cubic feet as noted in Detail 1 on Sheet C-9 plus the reduced volume of concrete between the dimensions shown on Sheet C-9 for the manhole and the dimensions provided for the manhole. Revised Drawing Sheet C-9 is provided as attached to this addendum.

**Utilithane Polyurethanes & Products**

Q1. Where the Rehabilitation of a Manhole is required, are you deferring to the SSPWC Greenbook Section 500-2 specification for Manhole Rehabilitation, with additional reference to 500-2.7.

A1. No, please refer to Detail 2 on Sheet C-10 and Specification Section 09811. Revised Drawing Sheet C-10 is provided as attached to this addendum.

Q2. Your specification Section 09811 Chemical Resistant Coatings; are requiring the Chemical Resistance Coating/Liner to be applied to the interior of a new construction Concrete precast Manhole, where this type Manhole is selected for the project?

A2. The chemical resistant coating shall be applied only to the existing manhole (Manhole No 4) in accordance with Detail 2 on Sheet C-10. Revised Drawing Sheet C-10 is provided as attached to this addendum.
Precon Products

Q1. Section 02081 of the project specifications lists the two following approved suppliers of polymer concrete manholes:

1. Armorock LLC Boulder City, NV;
2. U.S. Composite Pipe, Inc., Alvarado, TX;
3. Or approved equal.

There are no California based manufactures called out in the specifications, while several California based manufactures continue supplying PVC Lined and Polyurethane coated manholes on similar projects throughout California.

Will the agency allow PVC Lined manholes manufactured to meet ASTM C-478 to be supplied in lieu of polymer concrete manholes?

A1. No, polymer concrete manholes are required for the project in accordance with the Contract Documents, no exceptions allowed.

Q2. Section 02081 2.02 Section B states: “Provide polymer concrete manhole sections, monolithic base sections and related components referencing to ASTM C 478. ASTM C 478 material and manufacturing is allowed compositional and dimensional differences required by a polymer concrete product”. Will the agency require all precast manholes to meet ASTM C-478?

A2. Manholes shall meet ASTM C478 or ASTM D6783. Please see Revised Drawing Sheet C-9 as attached to this addendum.

Mladen Buntich Construction Company, Inc.

Q1. Reference drawing C-10- Detail 4- Street Restoration Table. Between station 11+40 and 26+60 the table states to pave 12’ Wide. The detail above the table on C-10 tells us to take the cap and grind to the lane width or centerline. Therefore the detail would require paving the full width of two lanes because the alignment is between two lanes. The restoration table does not account for the additional cap and grind that would be required per the detail. This would change the cap and grind to 30’ wide now. Please confirm that the table provided supersedes the detail drawn.
A1. All work shall be accomplished in accordance with the Contract Documents, particularly Specification Section H – Permits and Detail 4 on Sheet C-10. Between Station 11+40 and 26+60, the table provided in Detail 4 is based upon the street restoration not extending past the street centerline. If the contractor’s street restoration extends past the street centerline, the width of the street restoration shall be increased by an additional 12 feet. Revised Drawing Sheet C-10 is provided as attached to this addendum.

Q2. Proposal Package- Confirm the original bid bond and original attachments are not due until Friday December 4, 2020.

A2. Correct, mail the original bid bond and attachments as described in the Notice Inviting Bids of the Contract Documents.

Q3. Geotechnical Supplemental Report Dated August 19, 2020 located on page 146 of Appendix C provides updated recommendations for “additional jack and bore crossing along Sky Canyon Drive beneath Murrieta Hot Springs Road...” Nothing within the plans or specifications indicate a bore and jack beneath Murrieta Hot Springs Road as stated. Please clarify whether a bore and jack at that location is now required or recommended.

A3. Open-cut construction methods performed during night working hours shall be utilized for crossing Murrieta Hot Springs Road in accordance with the Contract Documents.

Q4. A bore and jack is indicated at the jurisdictional water crossing near the self-storage development due to its environmentally sensitive nature. From our prebid jobwalk, its apparent that this water crossing has been graded over, perhaps indicating it is not environmentally sensitive as suggested. Please clarify whether this crossing can be completed by open trench methods.

A4. Bore and jack construction methods shall be utilized for crossing the environmentally sensitive area in accordance with the Contract Documents.

Vido Artukovich & Son, Inc./Vidmar, Inc. A JV

Q1. Given the possibility of continuous dewatering requiring large equipment, tanks and piping to be left on the street, will the contractor be allowed to leave equipment on the street at night?

A1. All work shall be accomplished in accordance with the Contract Documents, particularly Specification Section 00064 General Condition F-19 and Specification Section H – Permits.
Q2. Per Section 02080 - 4 - 3.01 E, "Backfill around the manhole with control density fill per Section 02252 within a distance of 4 feet from the exterior walls of the manhole." 4 feet from the exterior wall seems extensive and will not work at some locations, for example MH No. 5 near station 22+22. The OD of the existing waterline is too close to the proposed MH when shoring is considered. Can the contractor reduce the distance of CDF required around the MH's?

A2. For both Specification Section 02080 & 02081, the backfill around the manhole is dependent on the actual width of the excavation and backfill with control density fill is required up to 4 feet of the actual width of the excavation.

Q3. Can the contractor add bore and jack locations in-lieu of open cut?

A3. The project shall be bid in accordance with the Contract Documents. Any proposed substitutions or changes shall be submitted to the District in accordance with Specification Section 00064 General Condition F-29 and F-30.

Q4. If the contractor adds bore and jack locations on the project, will the contractor have to utilize sheet pile pits?

A4. All bore and jack locations shall comply with the Contract Documents, including the requirements of Specification Section 02314 Auger Boring Shafts.
Eastern Municipal Water District

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

PE: SL
PM: EI
DFE: BAM
DE: S

PDJ:SL:ta:ae

ATTACHMENTS: Riverside County Transportation Department Encrcachment Rider Permit
Drawing D-59749 (Revised)
Drawing D-59750 (Revised)
County of Riverside, State of California
Transportation Department
Encroachment Rider Permit
Riverside-Permits West

To be attached to and made a part of Encroachment Permit.
Permit Number: ENC20030971

Eastern Municipal Water District
P O Box 8300
Perris, CA 92572

Contact: Monica Mcgrath
Phone Number: 951-928-3777 x 4416
W/O: WO 19110

Comply with your request of 11/04/2020, we are hereby amending the above numbered permit as follows:

Portions crossing Murrieta Hot Springs Road must be constructed at night, including the paving,
beginning at 8:00 P.M. and ending at 5:00 A.M.
A minimum of 10 days prior to the start of construction at night EMWD must coordinate with Alec Yzaguirre at 951-333-0625.

Date of Completion extended to: 01/05/2021

All specifications in original permit shall apply
Except as amended, all other terms and provisions of the original permit shall remain in effect.
This rider must be attached to the original permit.

Dated at Riverside, California 11/04/2020

Inspector: Alec Yzaguirre

By Patricia Romo, P.E. Director of Transportation

By Ward Maxwell, P.E. Permit Engineer
NOTES:
1. PRECAST REINFORCED POLYMER CONCRETE MANHOLES SHALL CONFORM TO SPECIFICATION SECTION 02081, APPLICABLE DIMENSIONAL REQUIREMENTS OF ASTM C478 OR ASTM D6783 AND:
1.1. SHALL BE DESIGNED FOR AASHTO H-20 LOADING,
1.2. CONCRETE SHALL BE COMPACTLY VIBRATED, CENTRIFUGALLY SPUN, OR MECHANICALLY TAMPED,
1.3. REFER TO SPECIFICATION SECTION 02080 FOR POLYMER CONCRETE REQUIREMENTS.
2. PROVIDE FULL DEPTH TROUGH.
3. ALL MANHOLE TOPS SHALL BE INSTALLED WITH THE MANHOLE COVER OVER THE UPSTREAM INLET, EXCEPT AS OTHERWISE SPECIFIED.
4. MANHOLE COVER DESIGN OR TO BE OF THE MANUFACTURER'S MANUFACTURED DESIGN.
5. BACKFILL ADJACENT TO MANHOLE WITH CDF PER SPECIFICATIONS.
6. PRECAST POLYMER CONCRETE MANHOLES SHALL PROVIDE A MINIMUM VOLUME OF EXCESS TO PREVENT UPLIFT CAUSED BY GROUNDWATER LEVELS. CONTRACTOR SHALL PROVIDE MANHOLES WITH THICKNESS SUCH THAT EXCESS VOLUME IS A FUNCTION OF MANHOLE DEPTH. EXCESS VOLUME MUST BE CALculated BASED ON MAXIMUM POSSIBLE VOLUME OF THE MANHOLE CONCRETE.
7. CONTRACTOR SHALL PROVIDE A MINIMUM VOLUME OF EXCESS CONCRETE BASED CONCRETE FOR GROUNDWATER LEVELS. WHERE CONTRACTOR SELECTS TO PROVIDE MANHOLES WITH THICKNESS LESS THAN SHOWN IN SECTION, CONTRACTOR SHALL INCREASE THE VOLUME OF CONCRETE FOR BUOYANCY RESISTANCE EQUALLY TO REDUCED VOLUME OF THE MANHOLE CONCRETE.
8. ALL MANHOLES SHALL BE POLYMER CONCRETE MANHOLES.
9. 3" MINIMUM WITH CONTROL JOINT FOR PRECAST CONCRETE MANHOLES AND ZERO EXTENSION FOR BASE WITHOUT CONTROL JOINTS FOR PRECAST REINFORCED POLYMER CONCRETE MANHOLES.