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A New Kind of Energy.

FAX TRANSMITTAL

Date: June 22, 2022

To: Plan Holders

Company: Contractors

Number of Pages: 5 (Including Cover)

From: Anika Ture - Contract Administration
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RE: **Project No. TMUA ES 2009-07 C2 Cherry Creek Lift Station,
Contract 2 Phase 2 East 53rd Street and Riverside Drive: Cherry
Creek Lift Station Pump Restoration and force Main
Improvements**

ADDENDUM NO. 1

Please email a signed cover sheet to tcurry@cityoftulsa.org as acknowledgement of receipt.

Thank you,

Signature

Company

Date



**ADDENDUM NO. 1
TO
PROJECT NO. TMUA ES 2009-07 CONTRACT 2, PHASE 2
EAST 53RD STREET AND RIVERSIDE DRIVE: CHERRY CREEK LIFT STATION PUMP
RESTORATION AND FORCE MAIN IMPROVEMENTS**

This Addendum No. 1 consisting of ten (10) clarifications and 7 (seven) modifications, submitted by Greeley and Hansen, LLC, is hereby made a part of the Contract documents to the same extent as though it were originally included therein, and shall supersede anything contained in the Plans and Specifications with which it might conflict. **This entire Addendum shall be attached to the Index Sheet of the Contract Documents, recorded on P-4 of the proposal, and submitted with the bid. Failure to do so shall result in the bid being deemed non-responsive.**

This Addendum No. 1 consists of the following:

1. The attached documents list the detail items that have been modified in Addendum No. 1. These documents shall be inclusive and apply to this project.

All other provisions of the Plans and Specifications shall remain in full force and effect.

CITY OF TULSA


Paul D. Zachary, P.E.

City Engineer


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**ADDENDUM NO. 1
TO
PROJECT NO. TMUA ES 2009-07, Contract 2, Phase 2
EAST 53rd STREET AND RIVERSIDE DRIVE: CHERRY CREEK LIFT STATION PUMP
RESTORATION AND FORCE MAIN IMPROVEMENTS**

This Addendum No. 1 consisting of the following ten (10) clarifications and seven (7) modifications, submitted by Greeley and Hansen, LLC, is hereby made part of the Contract Documents to the same extent as though it were originally included herein, and shall supersede anything contained in the Plans and Specifications with which it might conflict. **This Addendum shall be attached to the Index Sheet of the Contract Documents and submitted with bid. Failure to do so shall result in the bid being deemed non-responsive.**

CLARIFICATION TO BIDDERS (NO CHANGE TO CONTRACT DOCUMENTS)

1. **GENERAL INFORMATION:** A support of excavation for constructing the New Cherry Creek FM 12" Drain Valve Manhole on Contract Drawing M10 is required. Requirements for the support of excavation can be found in Specification Section 31 41 00 – Shoring, Sheeting, and Bracing.
2. **GENERAL INFORMATION:** No geotechnical information was obtained for the Project. Record Drawings show Rock starting at an approximate elevation of 595.68 (NAVD 88) at the New Cherry Creek FM 12" Drain Valve Manhole.
3. **GENERAL INFORMATION:** Per Specification Section 40 05 30, subpart 2.1.A "Other manufacturers of equivalent products may be submitted" for approval by the ENGINEER.
4. **GENERAL INFORMATION:** Modifications to Valve Vault No. 6 requires only to be dewatered and not bypassed to the Main Distribution Well.
5. **GENERAL INFORMATION:** For bidding purposes the estimated volume of Grit and Solids within each half of the C.C.L.S. Wet Well is 50 cubic yards for a total of 100 cubic yards.
6. **GENERAL INFORMATION:** For bidding purposes the Cherry Creek Lift Station can be bypassed by gravity under dry weather conditions (average day flow) for replacement of the Cross Over Gate in the C.C.L.S Wet Well. If flows increase above average day, then the City will ask the Contractor to recommission the C.C.L.S Wet Well and all re-work for replacing the gate would be on the Contractor.
7. **GENERAL INFORMATION:** The Cross Over Gate in the C.C.L.S Wet Well is for a 48"x48" square opening.

8. **GENERAL INFORMATION:** All Contractors that attended the Pre-Bid Meeting can schedule a site visit by contacting Josh Fisher (SSWWTP Superintendent) by either email (Jfisher@cityoftulsa.org) or phone (918) 591- 4450.
9. **GENERAL INFORMATION:** Any work associated to replacement of the existing concrete liner within the C.C.L.S Wet Well shall meet the existing lining manufactures requirements for properly repairing any damaged liner discovered during the work.
10. **GENERAL INFORMATION:** The Pipe Trenching Detail on Contract Drawing C04 does require flow fill for all pipe bedding for the Project.

CHANGES TO ALL CONTRACT DRAWINGS AND TECHNICAL SPECIFICATIONS (VOLUME I & II)

1. **Replace** subsection 1.5 for Specification Section 01 29 50 with the following:

CONTRACT ITEM 4 – 20-INCH or 19.38-INCH Impeller Assembly For The 16x16x20 NSY Model 100/150 Centrifugal Pump

Description: Under Contract Item 4 furnish all labor, materials, equipment, and services, and do all Work for the replacement of the existing 19.38-inch impeller assembly for all four (4) existing pumps (S104-LFT1-RSP01, S104-LFT1-RSP02, S104-LFT1-RSP03, S104-LFT1-RSP04). The Work includes removal of existing 19.38-inch pump impeller assemblies, installation of new 20-inch or 19.38-inch pump impeller assembly based on a 90-day Pilot Test. A 90-day pilot test shall be performed by the Contractor and Pump Manufacture with the 20-inch Impeller for Pump No. 2 (S104-LFT1-RSP02) prior to completing installation of the following three pump impellers (S104-LFT1-RSP01, S104-LFT1-RSP03, S104-LFT1-RSP04), and all general, structural, mechanical, instrumentation, and electrical Work complete and in place, together with all appurtenant Work as shown and specified, except for Work specifically included under the other Contract Items. A 90-Day Pilot Test shall consist of the Contractor and Pump Manufacture operating Pump No. 2 as the Lead Pump for 90 days while monitoring both vibration and Transient Pressure Spikes for startup sequence, shutdown sequence, and both average and nighttime flow operations with a 20-inch Impeller. Pumping to both the SSWWTP and FEBs shall be tested during the 90-Day Pilot. Vibrations shall be less than the alarm set point of 0.21 in/sec RMS and not exceed a transient pressure spike of 8 psi above normal operating pressures. A final pumping demonstration test shall be conducted with both the OWNER and ENGINEER present for achieving final acceptance. If the 20-inch impeller does not pass the 90-Day Pilot or upon OWNER request, the Contractor shall shave down all four 20-inch impellers to 19.38-inch at the Pump Manufactures facility and include a full manufactures warranty with the shaved impeller.

Payment: Payment for replacement of 20-inch or 19.38-inch Impeller Assembly Work will be made by EACH for Contract Item 4.



2. **Replace** subsection 1.13 for Specification Section 01 29 50 with the following:

CONTRACT ITEM 12 – REMOVAL OF GRIT AND SOLIDS, REPLACEMENT OF ODOR CONTROL PIPING AND VISUAL INSPECTION OF CONCRETE SURFACES WITHIN EACH HALF OF THE C.C.L.S WET WELL

- A. Description: Under Contract Item 12 furnish all labor, materials, equipment, and services, and do all Work within each half of the C.C.L.S Wet Well by removal of all grit and solids, replacement of existing Odor Control Piping, and visual inspection of all concrete surfaces within each half of the wet well. The Work includes removal of all grit and solids within the wet well, disposal of all removed grit and solids, replacing all odor control piping as shown on the Contract Drawings, power washing all concrete surfaces with 2.5 GPM at a minimum pressure of 2000 psi, taking photos and measuring all concrete surfaces which appear to be deteriorated, delaminated, or cracking on the surface of the concrete. All inspection efforts shall be documented in a Field Inspection Report and submitted to the OWNER, within 14 days of completing the work.
- B. Payment: Payment for Removal of Grit and Solids, Replacement of Odor Control Piping, and Visual Inspection of Concrete Surfaces Within the C.C.L.S Wet Well Work will be made by EACH for Contract Item 12.
3. **Replace** the description for Contract Item 12 on Contract Drawing C01 with “REMOVAL OF GRIT AND SOLIDS, REPLACEMENT OF ODOR CONTROL PIPING, AND INSPECTION OF CONCRETE SURFACES WITHIN EACH HALF OF THE C.C.L.S. WET WELL”
4. **Replace** (7 to 45 MGD) on Contract Drawing C05 under Mode of Operation: Normal Flow Mode when pumping to the SSWWTP Table, with (7 to 36 MGD).
5. **Replace** subsections 1.5 and 1.7 for Specification Section 01 29 50 with the following:

CONTRACT ITEM 5 – PRESSURE TRANSMITTERS

Description: Under Contract Item 5 furnish all labor, materials, equipment, and services, and do all Work for the installation of pressure transmitters for all four (4) existing pumps (S104-LFT1-RSP01, S104-LFT1-RSP02, S104-LFT1-RSP03, S104-LFT1-RSP04) on both the existing suction and discharge volutes. The Work includes removal of existing pressure gauges, installation of new pressure transmitters, having the Manufactures Representative onsite for a one-day pre-installation visit and a three-day trip for commissioning the equipment, and all general, structural, mechanical, instrumentation, and electrical Work complete and in place, together with all appurtenant Work as shown and specified, except for Work specifically included under the other Contract Items.

Payment: Payment for installation of Pressure Transmitters Work will be made by EACH for Contract Item 5.

CONTRACT ITEM 7 – TRANSIENT PRESSURE MONITORING SYSTEM

Description: Under Contract Item 7 furnish all labor, materials, equipment, and services, and do all Work for the installation of one (1) Transient Pressure Monitor System (TPMS) for Pump No. 2 (S104-LFT1-RSP02). The Work includes, installation of new transient pressure monitors,



having the Manufactures Representative onsite for a one-day pre-installation trip and a three-day onsite visit for commissioning the equipment and all general, structural, mechanical, instrumentation, and electrical Work complete and in place, together with all appurtenant Work as shown and specified, except for Work specifically included under the other Contract Items.

C. Payment: Payment for installation of Transient Pressure Monitoring System Work will be made by EACH for Contract Item 7.

6. **Add** to subsection 2.1.A the following list of Acceptable Valve Manufactures to Specification Section 40 05 20:

5. Knife Gate Valves:

- a. DeZurik
- b. Henry Pratt, Lined Valve
- c. Red Valve

7. **Add** the following subsection to Specification Section 40 05 20:

2.10 KNIFE GATE VALVES

- A. General: Provide valve suitable for the raw sewage application. Provide cast stainless steel or fabricated carbon steel with stainless steel liner, valve to be resilient-seated, bonnet less knife gate type with wafer MSS SP-81 flanged connections. Valve to be rated for 150 psi cold working pressure. Provide gate with rounded bottom with a beveled knife edge and finish ground gate sides. Provide bronze yoke sleeve, stainless steel stem.
- B. Seating: Provide seat ring with a molded resilient insert to the body and gate sides. Provide valve body with guides to assist seating. Provide raised face seat with a relieved area around the seat to prevent jamming.

All other provisions of the Plans (Drawings) and Specifications shall remain in full force and effect.

By: Timothy Gualandri
Timothy Gualandri, P.E.
Greeley and Hansen LLC



Date: June 21, 2022

