ACKNOWLEDGEMENT OF RECEIVING ADDENDUM

TO: Plan Holders for
Village Creek Water Reclamation Facility
Chemical Storage and Feed Facilities

FROM: Hazen and Sawyer

SUBJECT: Addendum No. 4
Village Creek Water Reclamation Facility
Chemical Storage and Feed Facilities
Bid Date: ***Wednesday***, May ***6***, 2020
Bid Submittal Time: 2 p.m.

DATE: April 27, 2020

The plan holder upon receiving this addendum should sign, date, and immediately send back this Acknowledgment of Receiving Addendum to Hazen and Sawyer at email dsebusch@hazenandsawyer.com. The bidder still must follow the Instructions to Bidders and acknowledge the addendum as required in the bid.

I acknowledge receipt of eight (8) pages, including this Acknowledgement page, of Addendum No. 4 for the Village Creek Water Reclamation Facility Chemical Storage and Feed Facilities Project that was issued on Monday, April 27, 2020.

_____
Print Bidder's Name

_____
Bidder's Title

_____
Firm Name

_____
Phone Number

_____
Bidder's Signature

_____
Date

ADDENDUM NO. 4

April 27, 2020

To the Bid Documents for

VILLAGE CREEK WATER RECLAMATION FACILITY
CHEMICAL STORAGE AND FEED FACILITIES

Dated: February 2020

For

JEFFERSON COUNTY ENVIRONMENTAL SERVICES DEPARTMENT

Bid Proposals received until 2 p.m. on May ***6***, 2020, online at QuestCDN (eBidDoc #6892827). Bid Opening after Bid Proposals are received via virtual video conference.

This Addendum is made part of the previously-noted Bid Documents. Receipt of this Addendum shall be indicated by inserting the number and date in the space provided on page 00300-3 of the Bid Proposal.

This Addendum includes seven (7) pages.

I. DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS

A. Specification Section 00100 – Notice to Bidders:

1. DELETE the entirety of the first paragraph on page 00100-1 which was revised via Addendum No. 3 to read as follows:

   "Sealed Bid Proposals will be received by the Environmental Services Department, Jefferson County, Alabama, ***online at QuestCDN (eBidDoc #6892827)***, until ***2*** **p.m.** local time on ***Friday, MAY 1*****,* 2020**, and then~~***, at 2 p.m. local time on Friday, MAY 1, 2020***~~***, after Bid Proposals are received, via virtual video conference, the Bid Proposals will be*** opened and read for the **VILLAGE CREEK WATER RECLAMATION FACILITY CHEMICAL STORAGE AND FEED FACILITIES**."

2. ADD the following statement as the first paragraph on page 00100-1 to replace the previously-deleted statement:

   "Sealed Bid Proposals will be received by the Environmental Services Department, Jefferson County, Alabama, ***online at QuestCDN (eBidDoc #6892827)***, until ***2*** **p.m.** local time on ***Wednesday, MAY 6*****,* 2020**, and then~~***, at 2 p.m. local time on Friday, MAY 1, 2020***~~***, after Bid Proposals are received, via***

virtual video conference, the Bid Proposals will be opened and read for the **VILLAGE CREEK WATER RECLAMATION FACILITY CHEMICAL STORAGE AND FEED FACILITIES**."

II. TECHNICAL SPECIFICATIONS – DIVISION 1 THROUGH DIVISION 17 AND APPENDICES

A. Specification Section 13207 – Cross-Linked Polyethylene Storage Tanks:

1. DELETE the entirety of Paragraph A of Article 2.01 ACCEPTABLE MANUFACTURERS on page 13207-4 which was revised via Addendum No. 3 to read as follows:

"A. The polyethylene storage tank(s) shall be by PolyProcessing Company or ***Assmann Corporation of America***."

2. ADD the following statement as Paragraph A of Article 2.01 ACCEPTABLE MANUFACTURERS on page 13207-4 to replace the previously deleted statement:

"A. The polyethylene storage tank(s) shall be by PolyProcessing Company***, Assmann Corporation of America, or equal***."

3. DELETE the entirety of Item 4 of Paragraph D of Article 2.02 MATERIALS AND CONSTRUCTION on page 13207-5 which reads as follows:

"4. The standard design specific gravity shall be 1.355."

4. ADD the following statement as Item 4 of Paragraph D of Article 2.02 MATERIALS AND CONSTRUCTION on page 13207-5 to replace the previously-deleted statement:

"4. The standard design specific gravity shall be ***1.65***."

B. Specification Section 15101 – Valve Operators and Electric Valve Actuators:

1. DELETE the entirety of Item 2 of Paragraph K of Article 2.03 ELECTRIC VALVE ACTUATORS on page 15101-5 which reads as follows:

"2. Remote Local-Off-Remote (L-O-R) selector switch, Open/Close pushbuttons, and Open/Closed pilot lights for a remote manual control station as specified in Article 2.03, Paragraph M. The remote L-O-R selector switch and Open/Close pushbuttons shall be dry contact inputs to the actuator control circuitry. The Open/Closed pilot lights shall be powered from the valve actuator control power."

2. ADD the following statement as Item 2 of Paragraph K of Article 2.03 ELECTRIC VALVE ACTUATORS on page 15101-5 to replace the previously-deleted statement:

   "2. Remote Local-Off-Remote (L-O-R) selector switch ***and*** Open/Close pushbuttons ***or Open-Stop-Close selector switch*** ~~**for a remote manual control station as specified in Article 2.03, Paragraph M**~~. The ~~**remote L-O-R**~~ selector switch ***(***and Open/Close pushbuttons ***if applicable)*** shall be dry contact inputs to the actuator control circuitry. ~~**The Open/Closed pilot lights shall be powered from the valve actuator control power.**~~"

3. DELETE the entirety of Sub-item c of Item 1 of Paragraph L of Article 2.03 ELECTRIC VALVE ACTUATORS on page 15101-6 which reads as follows:

   "c. When the L-O-R selector switch is in the "Remote" position, the actuator shall be controlled by remote inputs from the PLC or from the remote manual controls station."

4. ADD the following statement as Sub-item c of Item 1 of Paragraph L of Article 2.03 ELECTRIC VALVE ACTUATORS on page 15101-6 to replace the previously-deleted statement:

   "c. When the L-O-R selector switch is in the "Remote" position, the actuator shall be controlled by remote inputs from the PLC ~~**or from the remote manual controls station**~~."

5. DELETE the entirety of Paragraph M of Article 2.03 ELECTRIC VALVE ACTUATORS on page 15101-6 which reads as follows:

   "M. Remote Manual Control Station

      1. Where indicated in the Valve Schedule in Section 15390 – Schedules, manual actuator controls shall be furnished in a separate NEMA 4X stainless steel enclosure (NEMA 7 if located in a classified area). Manual control station controls shall include a Hand-Off-Auto (H-O-A) selector switch, Open and Close pushbuttons, and a red lamp indicating "Closed" and a green lamp indicating "Open".

         a. When the H-O-A selector switch is in the "Hand" position, open/close control shall be by the Open and Close pushbuttons on the remote manual control station.

         b. When the H-O-A selector switch is in the "Off" position, the actuator shall not operate.

c. When the H-O-A selector switch is in the “Auto” position, the actuator shall be controlled by remote inputs to the valve actuator from the PLC.”

C. Specification Section 15390 – Schedules:

1. DELETE the entirety of the third column of the ELECTRICALLY-OPERATED VALVE SCHEDULE on page 15390-4 which reads as follows:

“

OPERATOR TYPE
OPEN/CLOSE(1)
OPEN/CLOSE(1)
OPEN/CLOSE(1)
OPEN/CLOSE(1)
OPEN/CLOSE(1)
OPEN/CLOSE(1)
OPEN/CLOSE(1)
OPEN/CLOSE(1)

”

2. ADD the following statement as the third column of the ELECTRICALLY-OPERATED VALVE SCHEDULE on page 15390-4 to replace the previously-deleted statement:

“

OPERATOR TYPE
OPEN/CLOSE~~(1)~~
OPEN/CLOSE~~(1)~~
OPEN/CLOSE~~(1)~~
OPEN/CLOSE~~(1)~~
OPEN/CLOSE~~(1)~~
OPEN/CLOSE~~(1)~~
OPEN/CLOSE~~(1)~~

OPEN/CLOSE~~(1)~~

"

3. DELETE the entirety of Footnote (1) to the ELECTRICALLY-OPERATED VALVE SCHEDULE on page 15390-4 which reads as follows:

   "(1) Provide remote control station as specified in Section 15101 - Valve Operators and Electric Valve Actuators."

III. CLARIFICATIONS/QUESTIONS AND ANSWERS

This portion of Addendum No. 4 provides clarifications (C) and answers (A) to questions (Q) received.

AD4-C1. In the Addendum text herein, locations where existing text was replaced or new text was added are shown in bold and italics (***example***) and locations where existing text was deleted and not replaced are shown in bold and strikethrough (**~~example~~**).

AD4-C2. Bidders are hereby notified that the deadline for receiving Sealed Bid Proposals has been changed from 2 p.m. local time on Friday, May 1, 2020, to 2 p.m. local time on ***Wednesday***, May ***6***, 2020.

AD4-C3. Bidders are hereby notified that additional information and Addendum No. 5 will be provided in accordance with the following tentative schedule:

- Online Bid Worksheet and associated documentation available to Bidders on QuestCDN vBid online bidding system: By 5 p.m. local time on Wednesday, April 29, 2020
- Addendum No. 5: By noon local time on Friday, May 1, 2020
- Invitations to the virtual video conference for opening Sealed Bid Proposals: By noon local time on Monday, May 4, 2020

AD4-C4. Bidders are hereby notified that the online Bid Worksheet on QuestCDN will incorrectly allow Bidders to enter an amount for Bid Item No. 1.1 – Mobilization and Demobilization that exceeds 3% of the Grand Total of Bid. Bidders shall enter an amount for Bid Item No. 1.1 – Mobilization and Demobilization in accordance with the limitations stated in the Bid Documents.

AD4-C5. Bidders are hereby notified that the QuestCDN vBid online bidding system states that a Bid Bond of 5% of the total bid

is required. Each Bidder must submit with his Bid Proposal…a Bid Bond made by a company qualified and authorized to transact business in the State of Alabama in an amount not less than five percent (5%) of the total amount of his Bid Proposal, not to exceed $10,000.00, as stated in the Bid Documents (00101/1.09/A and 00300/6).

AD4-C6. Forthcoming Addendum No. 5 will include the following:

- Additional Answers to Questions received from Bidders
- An Adobe Acrobat® Portable Document Format (.pdf) file that includes the Bid Proposal Form and all of the associated documentation that each Bidder will be required to complete and submit as their complete Bid Proposal (00101/1.03/A) for Bidders to use as a reference. However, the online Bid Worksheet must be completed and submitted and the associated documentation must be downloaded, completed, and submitted via the QuestCDN vBid online bidding system.
- Revised Specification Section 00300 – Bid Proposal
- Proposal letter from MR Systems for pre-negotiated System Programmer services

AD4-Q1. The Electric Valve Actuator Specification requires Rotork Q-Pak or equal actuators for the 8 Ea 2" PVC Ball valves MBV-3702X thru MBV-6602X. This is a big heavy actuator to be mounted on a relatively lightweight plastic ball valve, and if installed this way the actuator would need to be supported independently from the valve. The minimum torque on one of these would likely have no problem twisting the plastic ball stem off on an accidental limit overrun. Will the Owner/Engineer consider a more readily available valve/actuator combination similar to a Hayward HRSN2 Series or Asahi-America Series 17? The Rotork has a lot more electrical capabilities in the way of available outputs but they don't appear to be used based on the P&ID's and the Hardwired I/O schedule. The "in remote" status to SCADA is going to have to come from the specified remote panels anyway. The open and closed statuses can be repeated from the valve remote panels to SCADA

AD4-A1. Open/close (non-modulating) [electric] valve actuators shall be Q-pak by Rotork or QX by Limitorque as specified (15101/2.03/A/1). Contractor shall provide supports as specified in Specification Section 15020 – Pipe Supports and as required for isolation ball valves MBV-37021 through MBV-37024 and MBV-66021 through MBV-66024 and/or their electric actuators. Also, see AD4-A2.

AD4-Q2. The remote panels for these actuated ball valves are not shown on the electrical drawings, either in plan view or on the control block diagram, and they probably should be.

AD4-A2. See two deletions/additions and one deletion to Section 15101 – Valve Operators and Electric Valve Actuators and one deletion/addition and one deletion to Section 15390 – Schedules previously listed herein

AD4-Q3. [We] would like some clarification on the SG Design for the poly tanks. Your spec 13207-5 paragraph 2.02 D4 calls for the standard tank design specific gravity to be 1.355.

Snyder Tanks recommends the SG for aluminum sulfate be 1.5 and Polyaluminum Chloride with a SG of 1.9.

I checked the Poly Processing compatibility chart too and they recommend 1.65 SG for both applications.

Please verify what SG is required.

AD4-A3. See one deletion/addition to Article 2.02 MATERIALS AND CONSTRUCTION of Section 13207 – Cross-Linked Polyethylene Storage Tanks previously listed herein.

END OF ADDENDUM NO. 4