CITY OF Grand Junction COLORADO

Purchasing Division

ADDENDUM NO. 4

DATE: **February 21, 2023**
FROM: **City of Grand Junction Purchasing Division**
TO: **All Offerors**
RE: **IFB-5176-23-DD Purdy Mesa Flowline Pressure Control Tank**

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded, and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Question: The exact tank size is not listed on the drawings and in the specs but would like to consider these alternate options:

- 22' diameter X 15' tall which has approximately 43,000 gallons
- 25' diameter X 10' tall which has approximately 37,000 gallons

Which best fits the projects requirements? Is volume or operating height more critical?

Answer: To meet the operational needs for the Purdy Mesa flowline, the pressure control tank must provide at least 4 minutes of working volume at the design flow of 10.3 MGD.

For the concrete tank design in the base bid, this volume is achieved within the 8.5 feet between the high and low water elevations of 5388.5' and 5380.0'. The concrete design volume also includes an assumed 2 ft minimum of freeboard, and at least 3 feet minimum below the low water level to prevent cavitation. Alternate tank volumes that are able to achieve 4 minutes of working volume at 10.3 MGD will be considered.

2. Question: The current fabrication schedule for a glass fused to steel tank is around 12 weeks which is pretty standard. If we based the schedule off fabrication of 12 weeks, it puts the completion into November for all intents and purposes. Is September a hard completion date for the project or is it possible to extend the completion date?

Answer: The City is aware of the current supply chain issues and potential delays in receiving the required materials for the Project. The City is willing to look at all delivery dates and work with the successful Offeror to mitigate delays and possibly extend the project completion date.

3. Question: Do you have a spec for the “flexible joints” shown on P1.0?
Answer: See Detail 4 on P1.0 and Specification 02616 for “Couplings”.

4. Question: Do you have the back pressure for the “duck bill style check valve”? Any spec?
Answer:
A. Manufacturers:
1. Red Valve Co, Inc., Tideflex Variable Orifice Inlet Nozzle
2. Or Engineer accepted substitution

B. Check valves shall be constructed of elastomeric rubber and be flow operated check type with a flanged end connection. Port area shall contour down to a duckbill which shall allow passage of the design flow in one direction and prevent reverse flow.
1. Flange and flexible duckbill sleeve shall be on-piece rubber construction with nylon reinforcement.
2. Back pressure will be established by the water surface elevation in the tank (0-7 psi).

C. Flange drilling – conform to ANSI B16.1 Class 125/ANSI B16.5, Class 150
1. Furnish with stainless steel retainer rings for installation.

5. Question: Do you have a spec for the “flap style check valve”?
Answer:
A. Manufacturers:
1. Red Valve Co. Inc., Waterflex Series WF-3
2. Or Engineer accepted substitution.

6. Question: Plan page C2.0 & C2.1 show 3-20” butterfly valves but only 1 is shown on the tank plan page P1.1. Are all the 20” valves Contractor supplied (qty 1 or 3)? Also valve on page P1.1 notes 18” valve on the 20” draw line?
Answer: Contractor to follow pipe size and valve quantities for site piping per C2.0 & C2.1 (qty 3). Process sheets (including P1.1) may include some site piping information as a general reference.

7. Question: Addendum #3 notes on Q/A #1 aur valves but none are shown on the plans?
Answer: No air valves are needed for this project. There are valves in the vicinity of the project, both upstream and downstream of the tank.

8. Question: Addendum #3 notes on Q/A #2 DIP pipe for the encased piping under the tank. What about the pipe inside the tank? Do we transition back to PVC? Any particular coating required for the DI pipe?
Answer: Yes, transition to PVC pipe inside the tank. See DIP pipe specification below for buried tank piping. Also see Section 09900 – Coatings. If a material is not covered in the coating specification, Contractor shall submit proposed coating system and follow manufacturer’s recommendation for surface preparation, application, primer, and coating thickness, inspections, touch ups, and repairs.
A. Buried Tank Piping
1. Buried tank piping shall be cement-mortar lined flanged ductile iron pipe, class 50, pressure class 350 in compliance with AWWA C151.
2. Fully restrained mechanical joints shall be provided, along with thrust blocks, at all joint, bends, fittings, and valves.
3. Minimum bury depth is 4.5 feet and coordinated with site piping.

4. Concrete for Thrust Blocks: constructed of “Class B” Concrete as defined by CDOT Construction Specifications with maximum water to cement ratio of 0.63 by weight and 28-day comprehensive strength of 3,000 psi.
5. Anchorages: Provide anchorages for tees, wyes, crosses, plugs, caps, bends, valves, and hydrants. After installation, apply full coat of asphalt or other acceptable corrosion-retarding material to surfaces of ferrous anchorages.
   a. Clamps, straps, and washers: Steel, ASTM A506
   b. Rods: Steel, ASTM A575
   c. Rod Couplings: Malleable-iron, ASTM A197
   d. Bolts: Steel, ASTM A307
   e. Cast-Iron Washers: Gray-iron, ASTM A126
6. Exterior bituminous coating
   a. Manufacturer's standard epoxy coal tar
7. Ductile-iron pipe and fittings shop lining: Cement-lined, AWWA C104/C205
8. Rust inhibitive primer
9. Rust preventative compound
10. Polyethylene Encasement
   a. Apply to all ductile iron pipe, fittings, restrained mechanical joints, and valves
   b. Shall comply with AWWA C105
   c. Low density polyethylene film, minimum 8 mils thick
   d. Flat tube material for pipe and fitting encasement
   e. Flat sheet material for valve encasement
   f. The entire fitting or valve shall be covered by a complete wrap of 48-inch-wide polyethylene sheet material cover over each set of lugs.
11. Joint tape: Self-sticking, PVC or polyethylene, 2-inch wide, 10 mils thick
   a. Chase "Chasekote 750"
   b. Kendall "Polyken 900"
   c. 3M "Scotchrap 50"
   d. Or accepted substitution
12. Strapping: Nonmetallic, water resistant, FS PPP-S-760, ASTM D3950-87

9. Question: 18” pipe is to be SDR35 per pipe schedule in specs, 02616-37?
Answer: Yes

10. Question: Is tracer wire and tape required on the overflow pipe or just the feed/bypass/draw line?
Answer: Yes, all PVC pipe to include tracer wire and tape.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Dolly Daniels, Senior Buyer
City of Grand Junction, Colorado