



ADDENDUM NO. 1
for
MSWRF Gates Replacement
Project Number 18-0047-UT

DATE: March 24, 2022

SUBJECT: Addendum No. 1

TO: Prospective Bidders and Other Concerned Parties

Bidders on the above project are hereby notified that the following Addenda are made to the Contract Documents:

The following items shall be removed and replaced from the Contract Documents:

1. Remove Spec Section 11103 2.03 A and replace with:

“The gate frame shall be a rigid, welded unit, composed of the guide rails, cross bars, and deadrails, with a clear opening sized per the gate dimension detail in the Plans. The gate frame shall be designed for face mounting as shown on the drawings and gate schedule.

The guides shall be of T-316L stainless steel and shall have a slot suitable for mating with the gate body. ~~Seals shall be frame mounted. The flush bottom resilient EPDM seal shall be mounted to the bottom member of the frame.~~

The frame configuration shall be of the flush-bottom type and shall allow the replacement of the side seals without removing the gate frame from the wall.

Where self-contained guides are extended above the operating floor level to form the bench stand upon which the lift mechanism is fastened, they must be suitably strong and rigid without the use of additional stiffening members. The arrangement of the yoke shall be such that the disc and stem can be removed without disconnecting the yoke. The yoke shall be sufficiently strong to support the lift forces when subjected to a load of 80 pounds pull on the operator.

The manufacturer’s shop welds, welding procedures and welders shall be qualified and certified in accordance with the requirement of the latest edition of AWS Sections D 1.1, 1.2, and 1.6.”

2. Remove Spec Section 11103 2.03 B and replace with:

“The slide gate body shall be manufactured of fiberglass reinforced polyester totally encapsulating an internal reinforcing structure. Each gate shall be molded individually to the exact dimensions specified in the Contract Documents **using an infusion molding process**. Seams and joints in and on the body are not acceptable. Slide gates shall be manufactured of reinforced thermoset plastic. Gate body shall have UV Stabilizing pigment in Resin to provide long-term protection from UV. The surface shall be resin rich to a depth of .010 inches to .020 inches (.25 - .51mm) and reinforced with C-glass and/or polymeric fiber surfacing material. The surface shall be free of exposed reinforcing fibers. The composition of these layers shall be approximately 95% (by weight) resin. The remaining laminate shall be made up of copolymer composite and reinforcing fibers in a form, orientation, and position to meet the mechanical requirements. **The gate shall be designed and manufactured with seals mechanically attached to the gate body, NOT to the guide frame, to allow for seal replacement without removing channel of installation from service. The elastomeric seals shall be J bulb type manufactured of extruded EPDM having a hardness range of 55 to 65 shore A durometer and conforming to ASTM spec. D-2000, with a maximum compression set of 25%, and low temperature brittleness to meet suffix F-17 (-400).**

Structural reinforcing shall be utilized to attain the necessary stiffness to meet deflection requirements and shall be well encapsulated **with laminate not less than ¼” thick on each side** to ensure against any permeation by water to the core areas. A T-316L stainless steel stem mounting bracket shall fasten to the gate with through bolts. The through holes shall not pass through or be in contact with the internal mild steel reinforcing. Core material must be 100% resistant to decay and attack by fungus and bacteria and be resistant to hydrocarbons.”

3. Remove Spec Section 11103 2.04 and replace with:

“Operators shall be a manual type, supplied with a handwheel and a 2” square nut compatible with the lift/handheld valve operator. ~~Operators shall be handwheel type.~~ Operators shall meet AWWA C561 specifications, except as otherwise specified, and shall be designed to meet the operating requirements specified in paragraph 11103-1.01 D. Clear plastic stem covers shall be provided as specified in AWWA C561, Section 4.4.13.6.

On handwheel, manual operators, gears, and bearings shall be enclosed in a weatherproof housing, and pressure type fittings shall be provided for grease lubrication of the bearings and gears. A maximum effort of 40 pounds pull of the crank or handwheel shall operate the gate under the specified operating conditions. The crank or handwheel shall be able to withstand, without damage, an effort of 80lb.

Handheld valve operators shall be Wachs P-2 Handheld Valve Operator or approved equal. The valve operator shall be 110V without torque control, 0-20rpm with a max torque of 500 ft/lbs.

The operator shall be either pedestal or bench mounted as specified. Pedestal type floor standards shall be the offset type of the standard type with wall mounting bracket. Pedestal or bench stands shall be cast iron or aluminum. The head of the pedestal or bench stand operator shall have a solid bronze, internally threaded operating nut. The operator shall be mounted on antifriction roller bearings. Cranks and handwheels shall be removable from the operator."

- 4. In Specification Section 11103, replace references to "AWWA C561" with "AWWA C563".**
- 5. Remove Spec Section 11220 2.09.D.1 and replace with:**
"1. Determine standard oxygen transfer efficiencies for one test grid conforming to Tank 6, Grid B and D.O. Boost Tank, Grid 2B."
- 6. Remove Spec Section 11220 2.09.D.3 and replace with:**
"3. The minimum oxygen transfer efficiencies in the test grid shall be as follows:
 - a. Test Grid:
 - 1) At 0.75 scfm/diffuser: 17.2 percent
 - 2) At 1.05 scfm/diffuser: 16 percent
 - 3) At 2.1 scfm/diffuser: 13.6 percent"

END OF ADDENDUM #1