



CITY OF TAMPA

Bob Buckhorn, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

David L. Vaughn, AIA, Director

ADDENDUM NO. 1

DATE: July 19, 2011

Contract 11-C-00044; Howard F. Curren AWTP Primary Sedimentation Tanks Scum Troughs Replacement, Phase 2

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

Item 1: CHANGES TO SPECIFICATIONS:

1. Specific Provisions, Section SP-37- Data to be Submitted on Pipe: Delete entire section.
2. Specific Provisions, Section SP-51- City Testing: Delete entire section.
3. Pages SIGN-1 and SIGN-2: Delete both pages. A project sign is not required for this contract.
4. Section W-99 -Primary Sedimentation Tanks Skimming Equipment: Replace entire section with attached Section W-99- Rotating Scum Troughs.

Item 2: CHANGES TO PLANS:

5. Sheet 3, General Notes, Note A-3: Replace "Bearing Plates" with "Set Collars, Operating Lever,".
6. Sheet 3, Rotating Scum Troughs, Note B-2: Replace "2-inch diameter, Schedule 80, T-316 Stainless Steel pipe" with "1.5-inch diameter, Schedule 40, T-316 Stainless Steel pipe".
7. Sheet 3, Rotating Scum Troughs, Note B-3: Change last sentence to read: The rotating pipe shall remain uncut, for a length of 4-inches at each end, where the pipe is supported by a mounting frame.
8. Sheet 3, Rotating Scum Troughs, Note B-4: Change second sentence to read: The design of the mounting frame shall be in strict accordance with the plans and specifications, which were based on Amwell's Model PSL Pipe Skimmer, as detailed on Amwell Master Drawings C-66707 & B-60815.
9. Sheet 3, Rotating Scum Troughs, Note B-6: Change note to read: A Buna-N D-seal shall be fixed in place between the rotating pipe and mounting frame and shall prevent water from passing in either direction between these two structures. The D-seals shall be able to be easily replaced without having to remove the 12-inch diameter rotating scum pipe.
10. Sheet 3, Rotating Scum Troughs, Note B-8: Change last sentence to read: All grease fittings shall be equipped with flexible hoses that extend to 72-inches above the water line.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to ContractAdministration@tampagov.net.

Jim Greiner

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SECTION 99 – ROTATING SCUM TROUGHS

W-99.01 GENERAL

Primary sedimentation tanks skimming equipment includes the following:

1. Furnishing and installing eight (8) scum pipes, two in each primary sedimentation tank as shown.

The equipment includes scum pipes, wall brackets, bearings, seals, and lever arms together with all accessories necessary for a complete installation.

The skimming equipment manufacturer shall have a minimum of 10-years experience in manufacturing this style of manual rotating scum trough assembly for wastewater sedimentation tanks. The proposed manufacturer shall be able to provide a minimum of ten installation references, complete with contact names and phone numbers for those references.

All pieces to be welded shall have full welds along the entire periphery of the contact areas between the pieces. All Stainless Steel to be welded shall be the Low Carbon version of the grade of Stainless Steel specified.

Working drawings, including physical drawings of the equipment and its characteristics, shall be furnished in accordance with the General Provisions. The submittals shall include manufacturer's certified material records as required.

W-99.02 SCUM TROUGH DESIGN

The design of the skimming equipment shall be in strict accordance with the plans and specifications, which were based on a design by Amwell, a Division of McNish Corporation.

The pipe skimmer basis of design and operational function shall be AMWELL Model PSL Pipe Skimmer, as detailed on AMWELL Master Drawings C-66707 and B-60815, or equal.

The pipe skimmer shall be designed as to allow the existing D-seal to be easily removed and replaced without removing the rotating scum trough.

W-99.02.01 PIPE

One 12-inch diameter Schedule 40S (0.375" wall) Type 316 Stainless Steel pipe with 60-degree wide slot as measured on the chord of the arc. Slot shall be cut symmetrically about the vertical axis of the pipe and the edges shall be parallel to the longitudinal axis of the pipe.

At regular intervals of not more than 2'-6", a 2" wide band of the full pipe periphery shall be left in the pipe to act as a stiffener.

W-99.02.02 WALL BEARINGS

A full circle rolled steel collar welded to an adjustable steel plate shall be provided at each end of trough for support.

Wall bearings shall be provided with a rolled UHMW-PE bearing attached to the internal periphery to provide ample bearing surface for the pipe without crushing the seal and to improve ease of rotation.

The wall bearing design shall allow a slight vertical or horizontal misalignment without interfering with the smooth operation of the pipe.

Each wall bearing shall be equipped with four grease fittings, set at 90-degree intervals around the bearing circumference. All grease fittings shall be equipped with flexible hoses that extend to 72-inches above the water surface.

W-99.02.03 NEOPRENE GASKETS

1/4" thick neoprene gaskets are required between bearing and wall to make a watertight connection at open end and filler at closed end without grouting either end.

W-99.02.04 SEAL

1" wide "D"-shaped black Buna-N ring seal. The seal shall not be affected by grease, mild acids or alkalis and shall be readily removable without removing the pipe from the wall bearing support.

The seal shall be constructed so that it remains effective even with a slight misalignment of pipe and wall bearing and shall not impede the smooth action of the revolving pipe.

W-99.02.05 OPERATING LEVER

One 1 1/2" Schedule 40 Type 316 Stainless Steel pipe rigidly mounted to skimmer pipe. Lever shall extend 5'-0" above the top of the wall. Each operating lever shall be capped with a welded-on Stainless Steel cap.

W-99.02.06 ANCHOR BOLTS

One lot of T-316 stainless steel adhesive anchors shall be provided. See contract drawings for size, location and quantity.

W-99.03 SPARE PARTS

One complete sealing assembly for a scum pipe (two UHMW-PE bearing bars and two Buna-N ring seals) shall be furnished with the equipment.

W-99.04 Testing

Each rotating scum pipe assembly shall be tested in two different manners. The first test will entail filling the scum pipe, in the upright position, with water while the sedimentation tank is empty. The entire assembly shall be visually checked for leaks 30 minutes after being filled. Any noticeable leaks will be fixed and the entire assembly shall be retested until no leaks are visually detected. The second test shall be with the sedimentation tanks filled with wastewater while the rotating scum pipe assembly, in the upright position, is empty. The entire assembly shall be visually checked for leaks 30 minutes after the tank is filled with wastewater. Any noticeable leaks will be fixed and the entire assembly shall be retested, by both methods, until no leaks are visually detected.

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