

Scope of Work

Emergency Repairs to Effluent Pump Station Valve Vault North West Water Reclamation Facility (NWWRF).

1. Intent

The city of St. Petersburg ("City") requires emergency repairs to the North West Water Reclamation Facility's (NWWRF) Effluent Pump Station Valve Vault. The valve vault contains a 60" line with a reducer to a 48" line. There are five (5) 42" suction lines attached to pumps on the 60" portion of the line. The line has developed a leak where the 48" portion travels through the vault wall. Although there has been no indication given for the cause of the leak, it is suspected that condensation within the vault has caused external corrosion of the line. The North West Water Reclamation Facility located at 7500 26th Avenue North in St. Petersburg, Florida.

2. Contractor Responsibilities

- a. Contractor shall provide all labor, materials, supervision, tools, equipment, and vehicles necessary for complete repairs to the Effluent Station Valve Vault line.
- b. Contractor shall use Carbon Fiber Reinforced Polymers (CFRP) to provide long term (20-year) minimum service life.
- c. Line Repair: Line repair shall extend the entire length of pipe through the vault and approximately 3'-4' beyond vault wall. Additionally, repairs shall extend approximately 12" into each suction line.
 - a. Install 24"-30" flanged manway on 60" line.
 - b. All work internal to pipe to be treated as permitted confined space.
 - c. Clean bulk debris or buildup from work area.
 - d. Abrasive blast work area to near white metal in accordance with SSPC SP-10.
 - e. Fill any existing pits using thickened epoxy resin.
 - f. Apply one layer of fiberglass saturated with NCS 2114 Resin to provide galvanic insulation.
 - g. Apply two longitudinal layers and 8-10 hoop layers NCS 3118 bi-directional carbon fiber saturated with NCS 2114 Resin to work area.
 - h. Apply one coat NCS 2120 permeation resistant topcoat to carbon fiber.
 - i. At upstream side install mechanical seal (WEKO or equivalent) at carbon fiber termination.

- j. At each termination in suction lines install mechanical seal (WEKO or equivalent) at carbon fiber termination.
- d. Contractor shall submit all calculations and stamped drawings to the City's project manager. Any deviations from submitted calculations and drawings requires City approval prior to implementation.

3. **Agreement**

The term Agreement as used throughout this scope of work shall mean the agreement entered into between the City and the Contractor for the repair of the clarifiers. The term of the Agreement shall be from the date of award through final completion of the project.

4. **Minimum Qualifications**

At a minimum, Contractor must meet the following qualifications:

- a. Have been in the business of repairing effluent lines for a minimum of five years.
- b. Provide evidence of financial stability and viability to fulfill the commitments of this Agreement.
- c. Have the ability to obtain the minimum insurance requirements set forth in this Agreement.
- d. Own or have immediate access to the equipment required to provide services.

5. **City's Responsibilities**

- a. Coordinate site access and any road-way blockage during construction with appropriate city departments as necessary.
- b. Provide electrical power with disconnects for the duration of the project.
- c. Provide personnel and equipment to assist Contractor with meeting confined space entry requirements.
- d. Provide personnel and equipment to load/off-load parts and equipment.

6. **Schedule**

- a. Repair, materials acquisition and fabrication time shall not exceed 14 days.
- b. If the city experiences a problem that causes the scheduled installation date to be delayed, or if the site is not accessible or safe, the materials shall be stored until installation can be accomplished.

- c. Any changes to the schedule must be approved by the City's project manager.

7. Subcontracting

- a. The hiring or use of outside services or subcontractors in connection with the performance of contractor's obligations under this contract shall not be permitted without the prior written approval of the city. Contractor shall promptly pay all subcontractors and suppliers. Any subcontracting, so permitted by the city, shall be subject to all the terms and conditions and other provisions of this Agreement.
- b. Notwithstanding any such subcontracting, Contractor shall remain obligated and responsible to the city for the performance of all terms and conditions and other provisions of this contract.

8. Compliance with OSHA

Contractor agrees that all items offered comply with all applicable Federal and the State Occupational Safety and Health Act, laws, standards and regulations, and that Vendor will indemnify and hold the City harmless for any failure to so conform.

9. Warranty, Vendor

Vendor shall fully warrant all materials and equipment furnished under the terms of this Agreement, against poor and inferior quality, for a period of not less than twelve (12) months from date of the final acceptance by the City. Time is of the essence of this Agreement. While under warranty, Vendor shall repair or replace inoperable materials or equipment in a timely manner to minimize the disruption of City operations.