

SECTION 46 01 01

INSTALLATION OF CITY SUPPLIED EQUIPMENT

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

- A. The Contractor shall provide all services to coordinate installation of City Supplied Equipment (HRC Bridges) as shown in the drawings and in Appendix A. The term “HRC Bridges” in this contract is inclusive of the bridge frame, FRP grating, FRP handrailing, mounting brackets and installation hardware (bolts, nuts, etc.).
- B. The Contractor shall supply and install all components, connections, accessories, etc. required to complete the installation of the HRC Bridges (2-Total).
- C. Supervise, organize, coordinate and direct construction operations of Sub-trades and Suppliers.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. This Section covers the work necessary by the Contractor to install the HRC Bridges.
- B. Contractor shall unload and install the City-supplied HRC Bridges and accessories at the Site according to the Manufacturer’s written instructions, Shop Drawing Submittals, and Contract Drawings.
- C. The Contractor’s scope includes installation of the scum pipe embedded in the centre concrete wall between the two HRC trains, including the segment of pipe and flange which extend into each HRC clarifier tank. Horizontal and vertical centerline locations and distance of the scum pipe flange face from the concrete wall (to which a scum trough will be connected later by others) are provided in the Shop Drawing Submittals included under Appendix A.
- D. The Contractor shall repair / replace any damaged materials caused during unloading, storage and/or installation.

PART 2 PRODUCTS

2.1 CITY SUPPLIED PRODUCTS

- A. Provide all products required to complete the work under this section, except where specifically designated as provided by the City. This designation is described in the drawings and City Supplied Equipment Shop Drawings.
- B. The additional items required to meet the installation detail shall be provided by the Contractor.

- C. Connection hardware such as anchor bolts, washers, nuts, etc. are provided with the HRC bridges by the manufacturer. Furnish any additional hardware not specifically stated in the manufacturer's bill of materials (Appendix A). Additional hardware shall be Type 316 stainless steel in accordance with Section 05 50 00, Metal Fabrications (Basic). Number and size as recommended by Veolia Water Technologies.

PART 3 EXECUTION

3.1 INSPECTION PRIOR TO OFF-LOADING

- A. Prior to transfer of the HRC Bridges to the Contractor, the Contractor, City, and Contract Administrator shall jointly inspect all shipments on arrival at site for damages and check against shipping information to ensure all parts, boxes, crates, bundles or items have been received.
 - 1. Record in writing the products transferred to Contractor's care. Provide listing of the materials and/or equipment received, and provide written statement to Contract Administrator that materials and/or equipment were received in good condition.
 - 2. Report damage to or loss of materials and/or equipment immediately to Contract Administrator.
 - 3. Do not off-load products to be returned to Supply Contractor for repair or replacement, unless necessary to expedite return shipping.
 - 4. Contractor is responsible for unpacking, repacking and handling of equipment as required.
 - 5. Provide trucking company with signed shipping manifest, signed by the Contractor, prior to allowing the trucking company to leave the site.

3.2 OFF-LOADING OF EQUIPMENT

- A. After any damage or loss is reported, off-load the equipment only with approval by the Contractor Administrator in accordance with the Supply Contractor's instructions.

3.3 STORAGE AND PROTECTION OF PRE-PURCHASED HRC EQUIPMENT AND MATERIALS

- A. Following the transfer of the HRC Bridges, and until final acceptance of the completed work, protect, store and maintain products to prevent damage or loss in accordance with Veolia Water Technologies instructions and as specified in Section 01 61 00, Common Product Requirements and Section 01 64 00, City-Supplied Products. Contractor shall replace all materials and/or equipment that are lost or damaged while in the custody of the Contractor. Replacement materials and/or equipment shall be acceptable to the Contract Administrator, City and Veolia Water Technologies.

3.4 INSTALLATION OF EQUIPMENT

- A. In accordance with Veolia Water Technologies instructions.
- B. Anchor Bolts: Accurately place using templates furnished by Veolia Water Technologies and as specified in Section 05 50 00, Metal Fabrications (Basic).

- C. Provide stainless steel spacers, shims, and other accessories necessary for complete and proper installation of the HRC Bridges.
- D. Install all anchor bolts after the placement and curing of concrete.

3.5 SUMMARY OF SUPERVISORY AND ON-SITE SERVICES PROVIDED BY SUPPLY CONTRACTOR

- A. Supply Contractor (Veolia Water Technologies) is responsible for providing:
 - 1. Co-ordination with the Contractor, City, and the Contract Administrator.
 - 2. Instructions for off-loading and equipment storage conditions.
 - 3. Witnessing of delivery, unloading and storage of delivered equipment and completion of Form 100 "Certificate of Equipment Delivery".
 - 4. Meeting with the Contractor to provide instructions for equipment installation, and completion of Form 101 "Certificate of Readiness to Install".
 - 5. Supervision and inspection of installation of pre-purchased Equipment (HRC Bridges and Scum Troughs), and completion of Form 102 "Certificate of Satisfactory Installation"

END OF SECTION