

## **Part 1 General**

### **1.1 WORK COVERED BY THE CONTRACT DOCUMENTS**

- .1 Work of this Contract includes, but is not limited to, the replacement of the existing Domestic Cold Water (DCW) PVC potable water pressure piping system consisting of piping, fittings, valves, hangers, insulation, electrical heat tracing and controls. Refer also to the remainder of the Specifications and the Drawings (ie: Contract documents).
- .2 The project Work is located at the Bedford Institute of Oceanography (BIO) Jetty in Dartmouth, NS.
- .3 The Work includes Mechanical, Electrical and Controls, however, also included are specialized services of an independent agency, whom will be engaged by this Contractor. The nature of this Work involves "Confined Space Entry" into the existing below grade pipe tunnel via the numerous access manholes (top-side of the Jetty). As such, only those people with the proper Training are permitted to enter the Work area. Furthermore, this Contractor shall engage the services of an experienced, qualified and certified "Rescue Team". This specialist services company shall be a Sub-Contractor to this Contractor.
- .4 Refer also to Section 21 05 01, Section 21 05 02 and the remainder of the Mechanical Specifications for additional Mechanical scope of work requirements.
- .5 Refer also to Section 26 05 01 for additional Electrical scope of work requirements.
- .6 The Contractor shall remove all existing pipe hangers/supports on-site and replace them with new stainless steel (SS) pipe hangers/supports as indicated. Note that the new stainless steel (SS) pipe hangers/supports for the new insulated DCW PVC pressure piping shall be spaced every 1200 mm apart including, but not limited to SS unistrut, SS nuts and washers, SS clevis hangers, SS oversized insulated pipe saddles and SS threaded rod.
- .7 Prior to execution of the Work on-site in the Tunnel(s), the Contractor shall site assemble/install/fabricate a three (3) meter long section of new 25 mm diameter HDPE piping c/w 50 mm thick insulation c/w vapour barrier, electrical heat tracing, pipe hangers/supports and piping identification for the Department Representative's review. This site/field erected Contractor "mock-up" is critical to the success of the project.
- .8 The Bedford Institute of Oceanography (BIO) will provide site security services for this project. The Department Representative will coordinate the application for Contractor security checks. Contractors will be escorted while security checks are being processed. None of the above requirements will be the Contractor's responsibility.

### **1.2 CONTRACT METHOD**

- .1 Construct Work under single stipulated price contract.

### **1.3 WORK BY OTHERS**

- .1 Co-operate with other Contractors in carrying out their respective works and carry out instructions from Departmental Representative.
- .2 Co-ordinate work with that of other Contractors. If any part of work under this Contract depends for its proper execution or result upon work of another Contractor, report promptly to Departmental Representative, in writing, any defects which may interfere with proper execution of Work.

### **1.4 WORK SEQUENCE**

- .1 Construct Work in a single phase. Co-ordinate with the Departmental Representative in terms of shut-down(s), parking and other policies in force on the job site during construction.
- .2 Minimize disruption and disturbance.
- .3 All Contractor work to be done during regular Construction working hours (ie: Monday to Friday from 0700 to 1700 hours).
- .4 Coordinate work with the Departmental Representative for off-hours Work during the evenings, early morning hours, on the weekends (ie: Saturday and/or Sunday) and/or during Holidays.
- .5 Co-ordinate Progress Schedule and co-ordinate with Departmental Representative Occupancy during construction.
- .6 Maintain fire access/control.
- .7 Clean job-site daily. Be responsible for all construction related debris. Construction related materials are not permitted to blow away into the Halifax Harbour. Secure all work and maintain a safe job-site.

### **1.5 CONTRACTOR USE OF PREMISES**

- .1 Limit use of premises for Work, for storage and for access, to allow:
  - .1 Departmental Representative occupancy.
  - .2 Work by other Contractors.
- .2 Co-ordinate use of premises under direction of Departmental Representative.
- .3 Obtain and pay for use of additional storage or work areas needed for operations under this Contract.
- .4 Remove or alter existing work to prevent injury or damage to portions of existing work which remain.
- .5 Repair or replace portions of existing work which have been altered during construction operations or adjoining work, as directed by Departmental Representative.
- .6 At completion of operations condition of existing work shall be the same which existed before new work started.

## **1.6 DEPARTMENTAL REPRESENTATIVE CO-OPERATION**

- .1 Co-operate with the Departmental Representative w.r.t. Work scheduling and operations to minimize conflict and to facilitate the Departmental Representative's usage of the Jetty.

## **1.7 ALTERATIONS, ADDITIONS AND/OR REPAIRS**

- .1 Execute work with least possible interference or disturbance to the Jetty operations. Co-ordinate the Work with the Departmental Representative to facilitate execution of the Work.
- .2 Accept liability for damage, safety of equipment and over-loading of existing equipment.

## **1.8 EXISTING SERVICES**

- .1 Notify the Departmental Representative of intended interruption of services and obtain required permission prior to interruption.
- .2 Where Work involves breaking into or connecting to existing services, give Departmental Representative 48 hours advanced notice for necessary interruption of mechanical and/or electrical service throughout the course of the Work. Minimize duration of interruptions. Carry out Work at times as directed by the Department Representative with minimum disturbance to operations.
- .3 Maintain accessibility to the Jetty at all times.
- .4 Establish location and extent of service lines in area of work before starting Work. Notify Departmental Representative of findings.
- .5 Submit schedule to and obtain approval from the Departmental Representative for any shut-down or closure of active service or facility including water, power, controls and/or communications services. Adhere to approved schedule and provide notice to affected parties.
- .6 During periods when parts of or all of the potable cold water piping system is not operational, the Jetty will use the existing fire hydrant water piping system for water supply.
- .7 Where unknown services are encountered, immediately advise the Department Representative. Confirm findings in writing.
- .8 Protect, relocate or maintain the remaining existing active services. When inactive services are encountered, cap off in manner approved by the Departmental Representative.
- .9 Record locations of maintained, re-routed and abandoned service lines.

## **1.9 DOCUMENTS REQUIRED**

- .1 Maintain at job site, one copy each document as follows:
  - .1 Contract Drawings.
  - .2 Specifications.
  - .3 Addenda.
  - .4 Reviewed Shop Drawings.
  - .5 List of Outstanding Shop Drawings.

- .6 Change Orders.
- .7 Other Modifications to Contract.
- .8 Field Test Reports.
- .9 Copy of Approved Work Schedule.
- .10 Health and Safety Plan and Other Safety Related Documents.
- .11 Other documents as specified.

## **Part 2 Products**

### **2.1 NOT USED**

- .1 Not used.

## **Part 3 Execution**

### **3.1 NOT USED**

- .1 Not used.

**END OF SECTION**