

1. GENERAL

- .1 The Contractor shall read and be governed by the General Conditions, General Instructions, Instructions to Bidders, Addenda, Form of Tender and Agreement of the complete specifications for this project.
- .2 The complete work under this trade shall be governed by the dictates of good practice in all details of materials and methods, even if not minutely specified. The work shall be properly coordinated with the requirements of other units of work specified in other sections.
- .3 Work included under this contract but not specifically confined to includes:

Phase 1

1A-1C

- Replace valves, elbows and utilidor sections as described in Section 01010

1D

- Install water laterals described in Section 01010. Refer to Drawing G-03

1E

- Test existing curb box check valves as described in Section 01010 and replace if necessary.
- Supply and Install new curb boxes c/w check valves and test as described in Section 01010 and on drawings.

1F

- Install Heat Tape system in all hydrants as described in the specifications and drawings.
- Install 1" Fibreglass insulation or approved equal over the pipe area receiving Heat Tape as described in Section 02510, Paragraph 2.1.2.8

1G

- Test all work performed under this contract for leaks prior to backfilling.
- Test any lines for leaks as directed by GN.

1H

- Provide new by-pass valve for AV-3.

1J

- Supply additional pipe as described in Section 01010.

Phase 3

- Install new extension to existing main utilidor lines as described in Section 01010 including Access Vaults, valves, water and sewer lines and fire hydrant vaults.

Tender pricing will include individual phase costing for Phase 1 including 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, and 1J, and Phase 3 (each individually), as well as a total price for the combined phases.

The contractor is to report to and cooperate with the designing/consulting engineering firm, AD Williams Engineering Inc, who will coordinate the work in collaboration with the Project Personnel (the GN Project Officer and the Regional Municipal Planning Engineer of the Kitikmeot Region).

The contractor understands that there may be other work being carried out by others on the utilidor at the same time, and will not expect any extra compensation from the GN for any delay that may be caused by this situation.

2. DOCUMENTS REQUIRED

- .1 Maintain at the job site, one copy each of the following:
 - .1 Contract Drawings;
 - .2 Specifications;
 - .3 Addenda;
 - .4 Reviewed Shop Drawings;
 - .5 Change Orders;
 - .6 Other Modifications to Contract;
 - .7 Field Test Reports;
 - .8 Copy of Approved Work Schedule;
 - .9 Manufacturer's Installation and Application Instructions.

3. PRODUCTS SUPPLIED BY OWNER

- .1 Products to be supplied by GN, as described in specifications and procedures are as follows:
 - .1 457m (1500') of 25mm (1") pipe for laterals
 - .2 275m (900') of heat trace for the laterals
- .2 Contractor's duties:
 - .1 Unless otherwise directed by Owner, order products from designated suppliers. Order in quantities and at times compatible with construction schedule and site storage capacity.
 - .2 Unload and handle at site.
 - .3 Promptly inspect delivered products, and give written report to Engineer on condition of all items received.

- .4 Pay demurrage charges.
- .5 Install, connect, and finish products as specified.

4. REPLACEMENT OF MATERIALS BY CONTRACTOR

- .1 Contractor is to provide all materials for the loop 3 utilidor expansion and replacement of water lines for the Avs'10 to 12.
- .2 Available on site is 158.5 m of 200mm (8") New water line pipe and 48.8 m. of old 200mm(8") water line. If used by the Contractor will need to be replaced by the material ordered for this project.
- .3 Contractor is to provide all materials to complete this project.

5. WORK SCHEDULE

- .1 Provide within ten (10) working days after contract award, schedule showing anticipated progress stages, and final completion of work within time period required by contract documents.
- .2 Interim reviews of work progress based on work schedule will be conducted as decided by Engineer, and schedule updated by Contractor in conjunction with and to approval of Engineer.

6. COST

- .1 Before submitting first progress claim submit breakdown of contract price in detail as directed by Engineer, and aggregating contract price. After approval by Engineer, cost breakdown will be used for progress payment.

7. CONTRACTOR'S USE OF SITE

- .1 Use of site is limited to areas for work, storage, temporary offices, and parking.
- .2 Do not unreasonably encumber site with materials or equipment.
- .3 Move stored products or equipment that interfere with operations of Hamlet.
- .4 Obtain and pay for use of additional storage or work areas needed for operations.

8. CODES, STANDARDS AND PERMITS

- .1 Perform work in accordance with the National Building Code, and any other Code of territorial or local application, provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.
- .2 Meet or exceed requirements of specified standards, codes and referenced documents.
- .3 Apply and pay for all permits (including quarry permits, Nunavut Water Board permits, Nunavut Impact Review Board permits) necessary to perform the work.

9. PROJECT MEETINGS

- .1 Engineer will arrange project meetings, and assume responsibility for setting times and recording and distributing minutes.

10. SETTING OUT OF WORK

- .1 Assume full responsibility for and execute complete layout of work to locations, lines, and elevations indicated.
- .2 Provide devices needed to lay out and construct work.
- .3 Supply such devices as straight edges and templates required to facilitate Engineer's inspection of work.
- .4 Supply stakes and other survey markers required for laying out work.

11. LOCATION OF EQUIPMENT AND FIXTURES

- .1 Location of access vaults and utilidors indicated or specified are to be considered as approximate.
- .2 Locate equipment, fixtures, and distribution systems to provide minimum interference and maximum usable space, and in accordance with manufacturer's recommendations for safety, access, and maintenance.
- .3 Inform Engineer of impending installation, and obtain his approval for actual location.
- .4 Submit field drawings to indicate relative position of various services and equipment when required by Engineer.

12. CUTTING, FITTING, AND PATCHING

- .1 Execute cutting, fitting, and patching required to fit properly together.
- .2 Where new work connects with existing and where existing work is altered, cut, patch, and make good to match existing work.
- .3 Obtain Engineer's approval before cutting, boring, or sleeving load-bearing members.
- .4 Make cuts with clean, true, smooth edges. Make patches inconspicuous in final assembly.

13. EXISTING SERVICES

- .1 Where work involves breaking into or connecting to existing services, carry out work at times directed by governing authorities, with minimum of disturbance to pedestrian and vehicular traffic.
- .2 Before commencing work, establish location and extent of service lines in area of work, and notify Engineer of findings.
- .3 Submit schedule to and obtain approval from Engineer for any shutdown or closure of active service or facility. Adhere to approved schedule, and provide notice to affected parties.
- .4 Where unknown services are encountered, immediately advise Engineer, and confirm findings in writing.

14. ALTERATIONS, ADDITIONS, OR REPAIRS TO EXISTING STRUCTURES

- .1 Execute work with least possible interference or disturbance to occupants, public, and normal use of premises. Arrange with Engineer to facilitate execution of work.
- .2 Shutdowns of existing services for tie-ins are to be scheduled in advance with notice given to Hamlet residents and done in cooperation with the utilidor operator.

15. ADDITIONAL DRAWINGS

- .1 The Engineer may furnish additional drawings to assist proper execution of work. These drawings will be issued for clarification only. Such drawings shall have same meaning and intent as if they were included with plans referred to in contract documents.

END OF SECTION 01005