



472-2016 ADDENDUM 2

WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB: CONTRACT 1- PRELIMINARY UNDERGROUND WORKS AND SECURITY FENCING

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE BID
OPPORTUNITY**

ISSUED: October 28, 2016
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20160708

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART A – BID SUBMISSION

Replace: 472-2016 Bid Submission with 472-2016 Addendum 2 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

Form B(R1): Revise the following items:

- A.1 ii) Add Item for a 150mm lead to a future hydrant
- A.2 i) b) Revise quantity 1 to 2
- A.3 iv) b) Revise quantity 1 to 3
- A.3 v) a) Revise quantity 1 to 3
- A.5 iii) a) Revise quantity 330 to 305
- A.5 vi) a) Add Item 450 mm C76-V
- A.9 i) Revise Description
- B.2 Revise quantity 400 to 100
- B.6 Revise Description
- B.15 Add Item Preparation of Revetment Sub-Grade
- B.16 Add Item Geotextile for Revetment
- B.17 Add Item Revetment Surface Course

PART E – SPECIFICATIONS

Revise: E14.1.4 to read The Contractor shall follow the requirements of CN as stipulated in the CN Safety Requirements herein this Bid Opportunity Appendix B. All employees of the Contractor shall obtain the CN Contractor Orientation Identification card and sticker prior to working on CN property.

- Revise: E25.4(e) to read Final backfill for pipe in a trench in the green space shall be Class 4 using non-frozen materials:
- (i) Placing frozen final backfill material during final backfilling operations will result in considerable consolidation of the final backfill material when it thaws
 - (ii) Obtain the necessary approvals from Contract Administrator prior to utilizing frozen or potentially frozen material as final backfill material. If frozen material is approved for use, the Contractor is solely responsible for repairing the final backfill to the depth necessary as subsequent damage due to excessive consolidation of the material
 - (iii) Contractor shall take all reasonable precautions to limit the amount of frozen backfill material and not contaminate or mix non-frozen final backfill with frozen materials
 - (iv) Contract Administrator will withhold a deficiency amount consistent with the estimated value of subsequent damage repair required of Contractor
- Add: E27.2 Be aware, the existing 1350mm diameter monolithic concrete land drainage system (LDS) is directly connected to SRB 6-22 and is normally surcharged with water levels in the pipe that are consistent with the water levels (N.W.L. and H.W.L.) identified on the Drawings for SRB-22.
- Add: E27.3 Contractor shall provide a Submittal to the Contract Administrator outlining the Contractor's planned methods, procedures and equipment for managing the flows and water levels in the existing 1350 mm monolithic LDS to accommodate the new LDS connection.
- Add: E27.3.1 The Submittal shall include the following at a minimum:
- a) Schedule for the new LDS connection demonstrating Contractor's intent to perform the connection works during low flow periods for the LDS in Winnipeg;
 - b) Information regarding Contractor's method and material for plugging or restricting flows in the existing sewers including methods for cleaning the sewers locally to accommodate the plugging and/or flow restricting system;
 - c) Information regarding Contractor's method and material for bypass pumping and dewatering pumping including pump curves, pipe materials and planned pump flows for each size of pump chosen, supporting design calculations and assumptions utilized by Contractor;
 - d) Excerpt from Contractor's Safe Work Plan required in D10, covering the new LDS connection activities specifically.
 - e) System layout drawings and sections including dimensions
- Add: E27.4 Contractor shall be aware that anecdotal evidence has suggested that water levels in the 1350 mm LDS upstream of the proposed connection have been successfully lowered previously by plugging of a manhole downstream of the proposed connection. The Contractor shall be aware that flows will continue to enter the system upstream of the proposed connection during and after dewatering operations from various sources. The estimated pipe volume upstream of the proposed connection is about 1,300 m³.
- Add: E27.5 Be aware that there is a sub-surface pumping system contributing to the flows into the system upstream of the proposed connection originating from the Wilkes Reservoir that pumps cyclically up to every 10 minutes between pump starts. Contractor shall coordinate his operations and schedule with the City regarding City's operation of the sub-surface pumping system.

- Add E27.6 Contractor shall develop his Submittal such that any bypass system is capable of handling a range of flows varying from very low incoming flows to the system upstream of the proposed connection up to a maximum flow that depends on the Contractor's timing to perform the new LDS connection and Contractor's co-ordination arrangements made with the City regarding the Wilkes sub-surface pumping system.
- Add E27.7 Contractor shall perform a field assessment of the actual estimated incoming flows and review his chosen means and methods in light of this incoming flow information with the Contract Administrator. Provided the Contractor adequately co-ordinates with the City and schedules the LDS connection works during freezing conditions with no risk of snowmelt or rainwater entering the system, the Contractor may assume incoming flows varying from very low flows up to 75 L/s for the purposes of Bidding. If the actual incoming flows are higher than 75 L/s despite Contractor's scheduling and co-ordination efforts as specified, Changes in Work to C7 may be considered.
- Add: E27.8 Prior to tapping into the existing 1350 mm LDS, and upon request from Contract Administrator, the Contractor shall demonstrate to the Contract Administrator in the field that the system has and will adequately lower and maintain water levels in the LDS system to accommodate Contractor's means and methods for performing the connection in its entirety.
- Revise: E29.4 a) to read: The supply and installation of all geotextile fabrics will be considered incidental to the Contract except for fabrics used as Geotextile for Revetment according CW2165;
- Add: E29.4 (b) Separate measurement and payment will only be made for Geotextile for Revetment according to CW2165 for restoring the SRB 6-22 shoreline.
- Revise: E32.2.1 c) to read: The ends of the helical CSPs shall be re-corrugated to a 68 x 13 annular profile;
- Revise: E32.2.1 d) to read: The CSPs shall have a minimum wall thickness of 3.5 mm;
- Revise: E32.5 a) to read: Measurement and Payment for CSP supply and installation shall be included in the Lump Sum payment for B.6 i) "Supply and Install 1600 mm, 3.5 mm Wall Thickness, 125 x 25 mm Corrugation Profile, Aluminized Type 2, Corrugated Steel Pipe Culvert".

DRAWINGS

Replace: 472-2016_Drawing_C1-CU-004-R0 with 472-2016_Addendum_2-Drawing_C1-CU-004-R1

Replace: 472-2016_Drawing_C1-CU-005-R0 with 472-2016_Addendum_2-Drawing_C1-CU-005-R1

Replace: 472-2016_Drawing_C1-CU-006-R0 with 472-2016_Addendum_2-Drawing_C1-CU-006-R1

Replace: 472-2016_Drawing_C1-CU-007-R0 with 472-2016_Addendum_2-Drawing_C1-CU-007-R1