



854-2010 ADDENDUM 1

REHABILITATION OF BRIDGE AND REPLACEMENT OF THE MIDTOWN FEEDERMAIN AT THE ASSINIBOINE RIVER

URGENT

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

ISSUED: May 31, 2011
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20070419

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: 854-2010 Bid Submission with 854-2010 Addendum 1 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

- Form B(R1): Revisions to various quantities in Section 4.
- Add Items 4 i), 4 j) and 4 k)
- Add Items 6 a) and b)

PART E – SPECIFICATIONS

Add: E1.4 The Following Historic Drawings are provided for information only, to aid in Contractors interpretation of existing conditions:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
BC-4505-01	Bridge_Piers_SU2_SU3
BC-4505-02	Piers_Support_SU1_SU4_SU5
BC-4505-03	Pile_Location_SU2_North_Bridge_Pier
BC-4505-04	Pile_Location_SU3_South_Bridge_Pier
BC-4505-08	Shop_Order_Pipe_Saddle
BC-4505-12	Bridge_Schematic_Expansion_Member
BC-4505-13	Bridge_Erection_Diagram
BC-4505-14	Bridge_Top_Chord_Sect_U1_U4
BC-4505-15	Bridge_Top_Chord_Sect_U4_U6
BC-4505-16	Bridge_Bottom_Chord_Sect_L5_L7_and_L0_L2
BC-4505-17	Bridge_Bottom_Chord_Sect_L2_L5
BC-4505-18	Bridge_End_Post
BC-4505-19	Bridge_Diagonals
BC-4505-20	Bridge_Floor_Stringers_Verticals
BC-4505-21	Bridge_Pier_Members
BC-4505-22	Bridge_Bracing
BC-4505-25	Pipe_Plan_Profile

Add: E3.2 Contractor Temporary Facilities, Offices and Laydown Areas

- (a) The Contractor may utilize City utility right-of-way for establishment of office facilities and laydown areas. Safe access shall be maintained to Aubrey Green pathway and sitting area. Temporary facilities shall be delineated and separated from public area by suitable temporary fencing and signage.
- (b) Contractor is to maintain safe 24 hour access to the Aubrey Flood Pumping and Lift Stations, and provide site access and parking to City Operations staff for purposes of accessing and maintaining these facilities. Where temporary excavations inhibit access to the facilities, provide temporary bridge-ways, scaffolds or other means of providing access.
- (c) Where Contractor facilities are established outside of the areas noted for restoration on the Drawings, or reasonably required for completion of the works the Contractor shall be responsible for restoration of these areas at his own cost.

Revise: E6.1.1 (a) to read: Provide 24 hour site security personnel during all periods when vulnerable portions of Feeder mains are exposed and contractor staff are not on site. This would include, but not limited to access to live valves, temporary exposed bulkheads, open pipe ends or other situations that could expose pipelines to contamination, unauthorized access or vandalism to live pipelines.

Add: E13.4.4 Erection

- (l) Temporary Welds and Removal of Temporary Welds
 - (i) Prepare surfaces for welding in accordance with E13.4.2 (d) (iii) and E13.4.4 (j) (i).
 - (ii) See drawings for the size of temporary welds required and carry out welding in accordance with E13.4.2 (j).
 - (iii) All Temporary welds shall be removed by mechanical means and the removal shall be done in such a manner as to not damage the existing steel or any added steel in any way. If any steel is damaged by the removal of temporary welds, the Contractor shall repair or replaced the damaged steel to the satisfaction of the Contract Administrator at the Contractor's own cost. The Contractor shall provide details of their proposed repair or replacement and obtain the acceptance of the Contract Administrator prior to proceeding with the repair or replacement.
 - (iv) Touch up galvanizing after the temporary welds are removed per E13.4.4 (k).

Add: 17.2 (f)(iv) Bolts (Pipe Slides)

- i. As per Specification E13.2.6 – 20 mm diameter

Add: E17.2 (o) Two-Way Air Damper

- (ii) Acceptable Products
 - i. FrostSafe by Val-matic Valve and Manufacturing Corp.
 - ii. Or approved Equal in accordance with B6.

Add: E17.2 (p) Steel Pipe Flanges

- (i) Flanges for fittings shall be AWWA C207 minimum Class D Flanges.
- (ii) Bolts shall be ASTM A307 grade B. Bolt size, type and diameter shall be in accordance to AWWA C207. Bolt length shall be sufficient to accommodate flanges, gaskets and insulators.
- (iii) Flange gaskets shall be 3 millimetre in thickness, full faced SBR rubber gaskets or neoprene in accordance with AWWA C207. Gaskets shall be one piece construction where possible. Segmented gaskets shall be constructed of a minimum number of segments and joints be of dovetailed construction or other jointing methods approved by the Contract Administrator.
- (iv) Flange insulator kits shall be Advance Products and Systems or approved equal, including full faced gasket, hole sleeves and washers

Add: E17.3 (a)(iii) Removal of pipe from bridge shall be completed by methods that will not impart excessive longitudinal or lateral loads to the bridge structure or components. Provide temporary support, slides, rollers or other suitable means of removing pipe. Submit plan for removal and any

temporary structures to Contract Administrator for review a minimum of twenty-one (21) days prior to erection of systems on site. Provisions of Specification E13.4.4 (b) apply.

Revise: E17.3 (e)(i)(v) to read Provide temporary support, slides, rollers or other suitable means of launching assemblies sections across the bridge. Launching systems shall be designed such that pipe cladding and insulation are not damaged during installation. Submit plan for installation scheduling, sequencing and any temporary structures to Contract Administrator for review a minimum of twenty-one (21) days prior to erection of systems on site. Provisions of Specification E13.4.4 (b) apply.

Revise: E17.4.1 (a) to read Supply and Installation of Feedermain shall be measured and paid on a length basis. The length to be paid for shall be the total number of linear metres acceptably installed as to each size, class, type of backfill and method of installation listed in Form B Prices "Main Line Piping- Supply and Install". Measurement shall be made along the laid centreline of the pipe, through all fittings and appurtenances, as computed by measurements made by the Contract Administrator. The length measured and paid will be from the connection to existing and change points of materials and installation. **The Length measured and paid shall include all excavation, backfill, shoring, bedding, and installation.** Payment for feedermain will be made on the following payment schedule:

- (i) Thirty percent (30%) payment upon delivery of pipe to the jobsite.
- (ii) Ninety percent (90%) payment upon successful installation of the pipe
- (iii) One hundred percent (100 %) payment upon successful testing and commissioning of the pipe.

Revise: E26.6.1 to read: Maintain plant material for a minimum period of one full growing season following completion of planting operations, or until such time that live growth is evident.

Add: **E29. PRUNING**

E29.1 DESCRIPTION

E29.1.1 This specification covers the pruning of existing trees as indicated by the Contract Administrator.

E29.2 QUALITY CONTROL

E29.2.1 Person performing work shall possess a valid Manitoba Arborists License.

E29.3 MATERIALS

E29.3.1 Wound Dressing

- (a) Wound dressing shall be horticultural accepted non-hardening bituminous emulsion, free of materials toxic to callus formation, containing disinfectant for fungal and other diseases.

E29.4 CONSTRUCTION METHODS

E29.4.1 Scheduling of Work

- (a) The Contractor shall review work with Contract Administrator prior to starting work.

E29.4.2 Pruning

- (a) Prune individual trees as indicated by the Contract Administrator. Remove dead, dying, diseased interfering, objectionable and weak growth in order to promote healthy development suitable to the purpose for which plant material is grown.
- (b) Prune in accordance with Agriculture Canada Publication 1505-1977, The Pruning Manual.
- (c) Employ clean sharp tools and make cuts flush with main branch, smooth and sloping as to prevent accumulation of water. Remove projecting stumps on trunks or main

branches. Remove dead and injured branches and branches that rub causing damage to bark. Trim trees without changing their natural shape. Do not damage lead branches or remove smaller twigs along main branches.

- E29.4.3 Cut Back
- (a) Eliminate narrow crotches as much as possible, avoid cutting back to small suckers. Remove smaller limbs and twigs to leave foliage evenly distributed.
 - (b) When reducing overall size, make symmetrical in appearance to maintain tree-like form typical of species.
 - (c) Do not remove more than one-third of total branching at single operation.
- E29.4.4 Repair and Protection
- (a) Repair cuts and old scars in accordance with Agriculture Canada Publication 1505-1977, The Pruning Manual.
 - (b) Paint new cuts 100mm in diameter and over with wound dressing.
- E29.5 MEASUREMENT AND PAYMENT
- E29.5.1 Pruning
- 'Pruning of Existing Trees' will be measured on a unit price basis for each tree pruned on site as requested by the Contract Administrator and paid for at the Contract Unit Price for each tree pruned. The number of trees to be paid for will be the total number of trees pruned in accordance with this specification and as indicated and accepted by the Contract Administrator, as computed by the Contract Administrator.

- Add: **E30. CLEARING AND GRUBBING**
- E30.1 DESCRIPTION
- E30.1.2 This specification amends CW 3110 Clearing and Grubbing.
- E30.2 CONSTRUCTION METHODS
- E30.2.1 Limit clearing and grubbing operations to areas indicated on the drawings and as identified by the Contract Administrator. Trees outside City of Winnipeg properties shall not be removed. Areas included in removal include:
- (a) Areas within fenced boundaries at pipe piers SU1 and SU4, including understory vegetation adjacent to fencelines required for site access.
 - (b) Areas required for re-grading of riverbanks on the south side of the river
 - (c) Areas where trees interfere with bridge structure. Contract Administrator will determine if trees in proximity to the bridge are to be removed or pruned, in accordance to E29.
- E30.2.2 Prevent damage to bridge and pipelines when removing trees. Remove all limbs interfering or within close proximity to the bridge and pipes prior to removal of trunks.
- E30.3 METHOD OF MEASUREMENT AND BASIS OF PAYMENT
- E30.3.1 Clearing and Grubbing will be measured and paid on a lump sum basis. The lump sum price for clearing and grubbing shall include cutting and removal of trees from site, for the areas shown on the Drawings and identified in E30.2.1.

Add: Appendix B – Site Photographs - May, 2008 (5 pages)

DRAWINGS

Replace: 854-2010 _Drawing_D-12229_r0 with 854-2010 Addendum_1 Drawing D-12229_r1
854-2010 _Drawing_D-12242_r0 with 854-2010 Addendum_1 Drawing D-12242_r1

854-2010 _Drawing_D-12243_r0 with 854-2010 Addendum_1 Drawing D-12243_r1

854-2010 _Drawing_D-12427_r0 with 854-2010 Addendum_1 Drawing D-12427_r1

Add: 854-2010_Drawing_BC-4505-01_R0

854-2010_Drawing_BC-4505-02_R0

854-2010_Drawing_BC-4505-03_R0

854-2010_Drawing_BC-4505-04_R0

854-2010_Drawing_BC-4505-08_R0

854-2010_Drawing_BC-4505-12_R0

854-2010_Drawing_BC-4505-13_R0

854-2010_Drawing_BC-4505-14_R0

854-2010_Drawing_BC-4505-15_R0

854-2010_Drawing_BC-4505-16_R0

854-2010_Drawing_BC-4505-17_R0

854-2010_Drawing_BC-4505-18_R0

854-2010_Drawing_BC-4505-19_R0

854-2010_Drawing_BC-4505-20_R0

854-2010_Drawing_BC-4505-21_R0

854-2010_Drawing_BC-4505-22_R0

854-2010_Drawing_BC-4505-25_R0