



709-2009 ADDENDUM No. 2

SOUTH END WATER POLLUTION CONTROL CENTRE INSTALLATION OF OUTFALL PIPE, EFFLUENT SAMPLING FACILITY AND ASSOCIATED WORKS CONTRACT NO. 2

URGENT

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

ISSUED: October 30, 2009
BY: Hartley Katz, C.E.T., P. Eng.
TELEPHONE NO. (204) 489-5900

**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: 709-2009 Bid Submission with 709-2009 Addendum No. 2 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

- | | |
|-------------|---|
| Form B(R1): | Revised description for Item A. 6 a) to read Chamber No. 1 |
| | Revised description for Item A. 8 to read Sluice Gate |
| | Revised quantity for Item B. 2 to 4 m ³ |
| Form G2(R1) | Revised the Standby Letter of Credit expiry date to January 3, 2010 |

PART D – SUPPLEMENTAL CONDITIONS

- Revise: D16.1 to read: The Contractor shall achieve Substantial Performance within 175 (One hundred seventy five) Working Days of the commencement of the Work as specified in D15, and in any event, not later than January 30, 2011.
- (a) The Work will be considered Substantially Performed once the following have been completed:
 - (i) Commissioning of all required components of the Work; and
 - (ii) Submission of all Operation and Maintenance Manuals to the Contract Administrator.

PART E – SPECIFICATIONS

Add: E12.3: If the Contractor chooses to shut down for an extended period of time, i.e. during periods of high flows, all excavations shall be backfilled. No excavations will be allowed to be left open for extended periods.

Revise: E13.2.1 (a) (ii) to read: Standard Installation Type 2 with a positive projection embankment;

- Revise: E14.1 (a) to read: the existing outfall can be shut down for an 8 hour period between 11:00 p.m. and 7:00 a.m. during dry weather flow periods only. This period is between December and March, dependent on weather and flow conditions. The Contractor shall coordinate the shut down period with the Contract Administrator. Any shut down periods require approval from the City. The City reserves the right to limit or extend any shut down period as required.
- Revise: E14.1 (d) to read: Provide flow control measures to contend and maintain flow in the outfall that are directed downstream of the Work area. Flow control measures can include but not be limited to diversions and by-pass pumping. The Contractor will be permitted to cut an access point into the top of the Effluent Discharge Chamber located outside the North West corner of the UV Building. This access is to be downstream of the stop logs.
- Revise E14.1 (f) to read: Provide a flow control plan to the Contract Administrator for review prior to commencement of the Work. As part of the flow control plan, provide an engineered drawing, sealed by a professional Engineer registered in the Province of Manitoba, for the replacement of the concrete slab. See Appendix E for the structural drawings of the UV Building.
- Replace: E15.3 (b) (iv) with the following: Perform open excavation in strict compliance with Manitoba Workplace Safety and Health regulations.
- Delete: E15.3 (b) (v).
- Delete: E15.3 (f).
- Revise: E17.4 (b) (i) to read: Operate each stop log with and without liquid to show that it can be operated.
- Add: E39.2 (b) (ii) 5. Two speed motor
- Add: E39.3 (b) (vi) Dry side duct work to be galvanized steel. Wet side ductwork to be Type 304 Stainless Steel with Type 2B finish.
- Revise: E69.12 (b) to read: Proposed alternate panel manufacturer must submit package in accordance with Section B6 – Substitutes.
- Revise: E69.13 to read: Control Panel CP-1 and Supply Fan SF-2 Starter Panel
- Replace: E69.13 (a) with the following:
- (a) Provide control panel CP-1 as indicated complete with the following:
 - (i) Surface mounted EEMAC 12 enclosure.
 - (ii) Hinged lockable door.
 - (iii) Lamacoid identification nameplates on all components.
 - (iv) Terminal strips (identified) for all wiring.
 - (v) Relays, OMRON LY4N-120AC, complete with PTF14A-E bases.
 - (vi) Push to test LED type pilot lights, selector switches, pushbuttons, Telemecanique XB2B series.
 - (vii) Alarm buzzer, Sonalert
 - (viii) 1000 VA Transient voltage surge suppressor, Leviton # 51020-BM
 - (ix) 1000 VA UPS, Prestige EXT series c/w full battery pack
 - (x) Programmable logic controller as specified in Section E70.
 - (xi) HMI operator interface, Red Lion No.G306A.

(xii) RS-232 to fibre media converter, Black Box No.MED100A.

Revise: E69.13 (b) (i) to read: Surface mounted EEMAC 4X enclosure.

Add: E70.4 (d) PCL programmer for setting up HMI system screen graphics to monitor and control building system equipment as required.

Add: E70.4 (e) Sampler system to be configured such that sample system will be called to operate through PCL from remote signal from DCS system.

Add: E70.4 (f) PCL system programmer responsible for coordinating with City of Winnipeg personnel to tie in PCL system to existing SEWPCC DCS system. Coordination activities shall consist of furnishing data tables and assisting in communication coordination.

Revise: E71.7 (a) to read: Provide building flood switches as indicated. Acceptable manufacturer shall be SOR Inc. Series 711.

Replace: E72 with the following:

E72 SLUICE GATE

E72.1 Description

(a) General

This Specification shall cover the supply, installation and testing of a cast iron sluice gate, wall thimble, mechanical lift operator, stem, wall brackets and accessories.

E72.2 Materials

- (a) Frame, Slide, Guides and Yoke ASTM A48 Cast Iron, Class 30
- (b) Seating Faces ASTM B21 Naval Bronze, Alloy 482
- (c) Wall Thimble ASTM A48 Cast Iron, Class 30
- (d) Wedges ASTM B564 Manganese Bronze, Alloy 865
- (e) Wedge Blocks ASTM A48 Cast Iron, Class 30
- (f) Fasteners & Anchors ASTM A276 Type 316 Stainless Steel
- (g) Non-rising Stem ASTM A276 Type 304 Stainless Steel
- (h) Stem Couplings ASTM A276 Type 304 Stainless Steel
- (i) Stem Guide ASTM A48 Cast iron, Class 30 with Bronze bushings
- (j) Stem cover Aluminum or Galvanized Steel

E72.3 Shop Drawings

- (a) Submit shop drawings of sluice gate, wall thimble, stem, wall brackets and accessories in accordance with E4 of this specification.

E72.4 Operating and Maintenance Manuals

- (a) Provide five (5) copies of all the manufacturer's brochures and technical literature detailing correct installation procedure and recommended operating and maintenance instructions. Manuals shall be bound with the project title and gate description identified on the front cover. Final payment for sluice gate in accordance with E6.

E72.5 Construction Methods

(a) Installation

- (i) Install cast iron sluice gate, wall thimble, stem, wall brackets and accessories as shown on the drawings and in accordance with the manufacturer's recommendations.

- (ii) The Contractor will not be allowed to form a block-out in the wall for the installation of the wall thimble. The wall thimble shall be set in place prior to constructing any portion of the wall.
- (b) Field Testing
 - (i) Perform leakage tests in the Contract Administrator's presence once sluice gates have been installed to ensure compliance with the allowable leakage rate indicated in the latest edition of AWWA C501.
 - (ii) The test for the unseating head will be performed by closing the sluice gate, filling the chamber with water to the specified head and measuring the leakage rate through the gate.
 - (iii) The Contractor will be responsible to pump river water or supply water from a hydrant into the chamber for testing purposes.
 - (iv) If the gate fails the field leakage test, the Contractor shall be responsible for the cost associated to repeat the test, and shall undertake all adjustments, replacements or other modifications necessary to facilitate the test at his own expense. The sequence shall be repeated until the gate passes the allowable leakage rate.

E72.6 Measurement and Payment

- (a) Sluice Gate will be measured for payment on a unit basis and paid for at the Contract Unit Price for "Sluice Gate". Number of units to be paid for will be the total number of sluice gates supplied and installed in accordance with this specification, accepted and measured by the Contract Administrator.

APPENDICIES

Replace: 709-2009_Estimate_Daily_Seasonal_Appendix_D with 709-2009_Estimate_Daily_Seasonal_Appendix_D_R1

Add: 709-2009_UV_Facility_Drawings_Appendix_E

DRAWINGS

Replace: 709-2009_Drawing_1-0102A-C0004-001-RA with 709-2009_Addendum_No. 2_Drawing_1-0102A-C0004-001-01-R1

709-2009_Drawing_1-0102A-C0005-001-RA with 709-2009_Addendum_No. 2_Drawing_1-0102A-C0005-001-01-R1

709-2009_Drawing_1-0102A-M0001-001-RA with 709-2009_Addendum No. 2_Drawing_1-0102A-M0001-001-01-R1

709-2009_Drawing_1-0102A-M0002-001-RA with 709-2009_Addendum No. 2_Drawing_1-0102A-M0002-001-01-R1

709-2009_Drawing_1-0102A-S0005-001-RA with 709-2009_Addendum No. 2_Drawing_1-0102A-S0005-001-01-R1

709-2009_Drawing_1-0102A-E0011-001-RA with 709-2009_Addendum No. 2_Drawing_1-0102A-E0011-001-01-R1

709-2009_Drawing_1-0102A-E0012-001-RA with 709-2009_Addendum No. 2_Drawing_1-0102A-E0012-001-01-R1

709-2009_Drawing_1-0102A-E0013-001-RA with 709-2009_Addendum No. 2_Drawing_1-0102A-E0013-001-01-R1