

957-2015 ADDENDUM 2

FORT ROUGE TRANSIT BASE SERVICE BAY AND B-SECTION VENTILATION UPGRADE

URGENT

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

ISSUED: November 23, 2015
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20150806

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 8 of Form A: Bid may render your Bid non-responsive.

PART E – SPECIFICATIONS

Add:	957-2015_Addendum_2-NMS_Section_08 71 00	
Revise:	1.2.6.11 of 21 05 10 to read: Circuit balancing valves*	Armstrong; Tour & Andersson; Gruvlok; Bell & Gossett
Revise:	1.2.6.14 of 21 05 10 to read: Expansion joints*	Fulton; Flexonics; Hyspan; Flex-Hose
Revise:	1.2.6.16 of 21 05 10 to read: Air Vents*	Dole; Hoffman; Maid-O-Mist; Taco; Bell & Gossett
Revise:	1.2.6.17 of 21 05 10 to read: Air purgers*	Hamlet & Garneau; Armstrong; Taco; Bell & Gossett; Flex-Hose
Revise:	1.2.6.21 of 21 05 10 to read: Expansion Tanks*	Amtrol; Expanflex; Wessels; B&G; Taco; John Wood; Flexcon; Armstrong
Revise:	1.2.6.25 of 21 05 10 to read: Buffer Tank*	Aerco; Taco
Revise:	1.2.6.27 of 21 05 10 to read: Flexible pipe connectors*	Flexonics; Hydro-Flex; United Flexible; Flex-Hose
Revise:	1.2.6.29 of 21 05 10 to read: Gas-fired make-up air*	ICE; Price Mechanical (PMI); Bousquet; Trane; Engineered Air
Revise:	1.2.7.4 of 21 05 10 to read: Centrifugal air foil fans*	CML Northern Blower; Twin City; Greenheck; Loren Cook
Add:	1.2.7.11 to 21 05 10 to read: Extraction Hoods*	Plymovent; Nederman; Monoxivent
Add:	1.2.8.3 to 21 05 10 to read: Motorized Dampers*	Tamco; Alumavent; JCI
Revise:	2.1.3.2 of 22 50 10 to read: Grooved pipe couplings shall be Victaulic FireLock Style 005 or 009 couplings. Gruvlok Rigidlite Style 7400 considered equal in accordance with B7.	

Revise: 2.1.3.4 of 22 50 10 to read: Threaded pipe couplings shall be Victaulic Style 920 or 922 saddle type fittings. Gruvlok mechanical tee considered equal in accordance with B7.

Add: 2.12.28.5 to 23 60 10 to read: The C-More controls will be capable of programming to allow limiting of burner input to match temporary initial system peak load demand.

Add: 2.12.30.10 to 23 60 10 to read: Size 4" Flg Motor Operated Boiler Flow Control Valves, Power Close – Spring Return with Proof of Open Switch, shipped loose.

Revise: 2.12.32 of 23 60 10 to read: Each boiler shall operate on a 208/3/60, 20 FLA service.

Add: 2.17.5.4 to 23 60 10 to read: DDC points list shall be as follows:

- Discharge air set point
- Discharge air set point reset signal
- Fan proof
- Alarm output contact for unit failure (flame fail, low limit, high limit, freeze stat, etc.).
- Unit operational status (read only since unit is hardwired double interlocked with gas detection system).

Add: 2.19 to 23 60 10 to read: BREECHING & STACK

- .1 The boiler supplier shall furnish factory designed and pre fabricated Heat Fab, Saf-T Vent CI Plus, air insulated, double wall breeching and stack components, with supports and terminations tested and Listed by Underwriters Laboratories to UL 1738 / ULC S636, for use with condensing boilers that will produce continuous flue-gas temperatures not above 550°F.
- .2 The venting system components shall be furnished in accordance with the boiler manufacturer's Gas Fired Vent System Design Program.
- .3 The inner flue-gas conduit or single wall stack liner, shall be fabricated from AL 29-4C stainless steel. The outer jacket of the system shall be type 430 stainless steel with a space approximately 1" between the flue-gas conduit and the jacket.
- .4 The double wall system inside of the building shall be air insulated. The portion outside of the building shall have fiber blanket added to the 1" air space.
- .5 The breeching and stack system joints shall be sealed with a tapered end closure system with tabs, sealant and locking containment bands each band locked from a single point for a pressure tight assembly.
- .6 The breeching and stack system shall maintain air tight integrity at pressures up to 8" w.c. The complete system, installed as per the manufacturer's instructions, may be utilized in either interior or exterior installations and shall be capable of withstanding reasonable wind and incidental loads as required by UL standards.
- .7 The manufacturer of the system must furnish complete CAD system drawings of the assembly to be furnished as required by the AHJ. A copy of the boiler manufacturer's vent sizing calculation shall be provided with the submittal package.

Add: 3.16.3.1.8 to 23 60 10 to read: Program the boiler controllers to limit burner inputs to match the system maximum demand for heat input.

Revise: 2.13.2.1 of 23 80 10 to read: Furnish and supply a custom fabricated modular extraction hood of the sizes and construction indicated on the plans and schedules. After fabrication of first hood, provide a smoke test, witnessed by the Contract Administrator, at the scheduled flow rates. Obtain written approval from Contract Administrator prior to fabrication of remaining hoods.

Revise: 1.13.1 of 26 05 00 to read: Electrical Sub-Contractor to provide a trailer mounted temporary power generator (600V, 3 phase) to act as the power source for the site if problems are encountered during the shutdown of the main distribution (i.e. refurbished main breaker not closing or racking in properly). Genset shall be sized according to peak historic demand for the season at the time of the shutdown (1300kVA for winter, 1200kVA for summer). Allow for 48 hours of fuel and output cable (complete with compression lugs) from genset to main distribution. Bolted connection can be made to bus of main distribution via existing holes tapped into bus. Genset to have adjustable output breaker.

Refer to Appendix A for historic demand data and Appendix B for peak metering data from March 2015.

Replace: 957-2015_Addendum_2-NMS_Schedule_MS-7-R1

Add: 957-2015_Addendum_2-NMS_Detail_MD-9

Add: 957-2015_Addendum_2-NMS_Detail_MD-10

Add: 957-2015_Addendum_2-NMS_Detail_A1

Add: 957-2015_Addendum_2-NMS_Detail_RS-1

Add: 957-2015_Addendum_2-NMS_Appendix A – Manitoba Hydro 6 Year Demand Data

Add: 957-2015_Addendum_2-NMS_Appendix B – Electrical Load Study

DRAWINGS

Replace: 957-2015_Drawing_M1.1-R0 with 957-2015_Addendum_2-Drawing_M1.1-R1

957-2015_Drawing_M1.2-R0 with 957-2015_Addendum_2-Drawing_M1.2-R1

957-2015_Drawing_M1.3-R0 with 957-2015_Addendum_2-Drawing_M1.3-R1

957-2015_Drawing_M2.1-R0 with 957-2015_Addendum_2-Drawing_M2.1-R1

957-2015_Drawing_M3.1-R0 with 957-2015_Addendum_2-Drawing_M3.1-R1

957-2015_Drawing_M4.1-R0 with 957-2015_Addendum_2-Drawing_M4.1-R1

957-2015_Drawing_M5.1-R0 with 957-2015_Addendum_2-Drawing_M5.1-R1

957-2015_Drawing_M5.2-R0 with 957-2015_Addendum_2-Drawing_M5.2-R1

957-2015_Drawing_M6.1-R0 with 957-2015_Addendum_2-Drawing_M6.1-R1

957-2015_Drawing_E1.1-R0 with 957-2015_Addendum_2-Drawing_E1.1-R1

957-2015_Drawing_E2.1-R0 with 957-2015_Addendum_2-Drawing_E2.1-R1

957-2015_Drawing_E3.1-R0 with 957-2015_Addendum_2-Drawing_E3.1-R1

QUESTIONS AND ANSWERS

Q1 Is hydrostatic pressure testing required as per fire protection spec 3.8.4?

A1 Hydrostatic pressure testing shall be completed only if it is required by NFPA 13 or the AHJ.

Q2 Are hydraulic calculations required?

A2 Hydraulic calculation shall be completed only if it is required by NFPA 13 or the AHJ.

Q3 Are existing as-built fire protection drawings available?

A3 No.

Q4 Who is the manufacturer of the existing main distribution switchboard? Is there room to add the 2 new breakers?

A4 Westinghouse. Yes, there is room. It appears that mounting hardware is present as well.