



864-2022 ADDENDUM 2

METCALFE PUMPING STATION 2022 UPGRADES

URGENT

PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE BID/PROPOSAL

ISSUED: 2023-04-17
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THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID/PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Add 2021-03-05

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

FORM B: PRICES

Replace: 864-2022 Form B: Prices with 864-2022 Addendum 2 - Form B: Prices. The following is a summary of changes incorporated in the replacement Bid/Proposal Submission:

Form B(R1): Revised info provided in the *Spec. Ref* column.

Page numbering on some forms may be changed as a result.

PART B – BIDDING PROCEDURES

Revise: B2.1 to read: The Submission Deadline is 12:00 noon Winnipeg time, April 20, 2023.

PART E – SPECIFICATIONS

Revise: E2 to read: Not Applicable Under This Contact.

Revise: E20.2.1(n) to read: (i) Flowserve 4MF13C FR4T, or approved equal in accordance with B7.
(ii) **Approved equal in accordance with B7: Cornell 4414T. Note: 30 hp motor required based on maximum bhp at 60 Hz with full size (355.6 mm) impeller and in accordance with E20.2.2(g)**

Revise: E26.2.5 to read: Carbon Steel Piping and Fittings:
(a) All piping shall be ASTM A106/A106M Grade B carbon steel, extra heavy wall thickness.
(b) Fabricated fittings shall conform to **ASTM A106/A106M** Grade B carbon steel, extra heavy wall thickness.
(c) Steel fittings shall be ASTM A234 Grade B carbon steel, extra heavy wall thickness. Dimensions shall be to ANSI B16.9.
(d) **Steel flanges shall be ASTM A105, slip-on or weld-neck, dimensions to ANSI B16.5, 150#, flat-face.**
(e) **Drains and vents, DN50 and smaller:**

- (i) Thredolet, carbon steel, ASTM A105, 3000#.
- (ii) Pipe, carbon steel ASTM A106-B, ERW, schedule 160, threaded ends.
- (iii) Ball valve, full-port, 2-piece, NPT, 316 SS, RTFE seats, 1000 psi WOG at 200°F, blowout-proof stem, lockable lever handle.
- (iv) 316 stainless steel threaded plug in valve outlet.
- (f) Interior finish
 - (i) Carbon steel pipe, fittings and flanges shall be internally lined with shop-applied epoxy coating in accordance with AWWA C210. Holiday testing required.
 - (ii) Conform to manufacturer requirements regarding:
 - .1 Surface preparation including sand blasting.
 - .2 Conditions under which painting system can be applied.
 - .3 Prime and final coat thicknesses.
 - (iii) Acceptable products: Two (2) prime coats Devoe Bar Rust 236, 6 mil DFT per coat, with Devoe Devgrip 238 abrasion resistant finish coat, 6 mil DFT. Total lining 18 mil DFT, or approved equal in accordance with B7.
 - (iv) On mechanically-coupled pipe ends with ring adapters, interior finish shall be continuous over end of pipe and ring adapter, up to and including coupling gasket sealing surface.
 - (v) Contractor shall add additional flanged breaks as required to complete internal lining of pipe spools with elbows.
- (g) Exterior finish
 - (i) Apply epoxy finish to the exterior of all carbon steel or ductile iron piping components in accordance with AWWA C210.
 - (ii) Provide a 1-year warranty from project substantial performance date for entire painting system.
 - (iii) Conform to manufacturer requirements regarding:
 - .1 Surface preparation including sand blasting.
 - .2 Conditions under which painting system can be applied.
 - .3 Prime and final coat thicknesses.
 - (iv) Piping shall be identified per existing identification standard indicating the product and direction of flow. Provide white lettering / arrows on piping painted black. Provide black lettering / arrows on all other background colours.
 - (v) The exterior final coat colour of all piping shall be as directed by the Contract Administrator.
- (h) Submit shop drawings in accordance with Section 01 33 00.

Revise: E26.2.16(a) to read: Flange nuts and bolts shall be **ASTM A193-B8M class 2 Type 316 stainless steel bolts, ASTM A194-8M Type 316 stainless steel extra heavy hex nuts coated with anti-galling compound.**

Revise: E26.3.5(d) to read: After new pumps and piping have been installed; all pipes and pipe welds shall be **painted in accordance with E26.2.5 Carbon Steel Piping & Fittings.**

DRAWINGS

Replace:

864-2022 Drawing 1-0162L-M0008 Rev A with Addendum 2 Drawing 1-0162-M0008 Rev 1

864-2022 Drawing 1-0162L-M0009 Rev A with Addendum 2 Drawing 1-0162-M0009 Rev 1

Electrical Drawing 1-0162L-E0003-001 Rev 0 with Addendum 2 Drawing 1-0162L-E0003-001 Rev 1

Electrical Drawing 1-0162L-E0012-001 Rev 0 with Addendum 2 Drawing 1-0162L-E0012-001 Rev 1

Electrical Drawing 1-0162L-E0014-001 Rev 0 with Addendum 2 Drawing **1-0162L-E0014-001 Rev 1**

Electrical Drawing 1-0162L-E0016-001 Rev 0 with Addendum 2 Drawing **1-0162L-E0016-001 Rev 1**

NMS SPECIFICATIONS

Section 23 34 00 HVAC FANS

Add: 2.2.2.2.1 Approved Equals in accordance with B7: Loren Cook SQN-B

Section 23 37 14 DIFFUSERS AND GRILLES

Add: 2.1.2.1 Approved Equals in accordance with B7: Nailor 5100

Add: 2.2.2.1 Approved Equals in accordance with B7: Nailor 5100-HD

Section 23 33 15 DAMPERS - OPERATING

Revise: 2.1.13 to read: Acceptable materials: Refer to schedule **or approved equal in accordance with B7.**

Add: 2.1.13.1 Approved Equals in accordance with B7: Alumavent 3900ELT

Revise: 2.2.13 to read: Acceptable materials: Refer to schedule **or approved equal in accordance with B7.**

Add: 2.2.13.1 Approved Equals in accordance with B7: Alumavent 3100

Section 23 37 13 LOUVERS

Revise: 2.1.5 to read: Acceptable materials: Refer to schedule **or approved equal in accordance with B7.**

Add: 2.1.5.1 Approved Equals in accordance with B7: Nailor 1604D, Ventex 2430/2435

Section 26 29 23 VARIABLE FREQUENCY DRIVES

Revise: 2.1.15.1 to read: VFD shall be installed **within the MCC** within the electrical room.

Section 09 96 50 GRAFFITI-RESISTANT COATINGS

Add: Section 09 96 50 – Graffiti-Resistant Coatings (**see attached**)

Section 09 91 23 INTERIOR PAINTING

Revise: 3.7.1.2 to read: Galvanized Metal Surfaces (Applies to Crane Beams only):

- .1 Remove oil or soap film with detergent or emulsion cleaner.
- .2 Lightly abrasive blast with a fine abrasive in accordance with SSPC SP-16 guidelines to achieve a profile of 40 - 75 μm (1.5 - 3.0 mils). When light abrasive blasting is not possible, galvanizing can be treated with a suitable zinc phosphate conversion coating.

- .3 Apply one base and one finish coat of Amerlock 2 Epoxy paint, 75-125 μm (3.0 - 5.0 mils). Colour: Safety Yellow.
- .4 For crane capacity wording, apply two coats of Amerlock 2 Epoxy paint, 100 μm per coat dry film thickness. Colour: black. Select font size and location to be in conspicuous space.