



Tender 220-2024 ADDENDUM 2

CENTREPORT SOUTH REGIONAL WATER AND WASTEWATER SERVING – PHASE 1A CONTRACT 4A FEEDER MAIN

URGENT

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

ISSUED: May 14, 2024
BY: Tristan Eldridge
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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 2024-02-01

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: Tender 220-2024 Form B: Prices with Tender 220-2024 Addendum 2 - Form B: Prices. The following is a summary of changes incorporated in the replacement Bid/Proposal Submission:

Form B(R1): Revised Item A2-A6, A11, A14, A15, A17, A21, B7, D1, D2

Inserted New Item A4

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

PART B – BIDDING PROCEDURES

Delete: B13.9 (a)

Revise: B13.9 (b) A minimum of two (2) successful 350 mm or larger PVC pressure pipe projects completed in the last ten (10) years for the project Superintendent proposed for this Work utilizing the proposed feeder main installation method required for this project.

PART D – SUPPLEMENTAL CONDITIONS

Add: D20.3 (l) All construction activities within the Heritage Monitoring Areas identified within the HRPP (Appendix C). A minimum two-week notice must be provided to the Manitoba Metis Federation (MMF) prior to commencement of work within the Heritage Monitoring Areas.

Add: D22.2 (f) An MMF archeologist will be on site observing the Contractor's archeologist completing the tasks described in Section E4.

PART E – SPECIFICATIONS

Add: E23.3 7 PVC flange adapters for connecting to chamber piping shall conform to the following:

- (a) Made of ductile iron conforming to ASTM A536 and have flange bolt circles that are compatible with supplied chamber piping flanges.
- (b) Consist of a plurality of actuated gripping wedges to maximize restraint capability. Torque limiting actuated screws shall be used to ensure proper initial set of gripping wedges.

- (c) All internal surfaces of the gasket ring (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the requirements of ANSI/AWWA C213.
- (d) Coating shall meet NSF-61 requirements.
- (e) Exterior surfaces of the gasket ring shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116.
- (f) Restraint Ring shall be coated with MEGA-BOND.
- (g) Minimum pressure rating of 1000 kPa.
- (h) Approved product: EBAA Series 2100 MEGAFLANGE or approved equal in accordance with B7.

Revise: E23.4 (a)(xxiv) to read Place pipe zone material in uniform layers not exceeding 150 mm thick to minimum 300 mm over top of pipe.

Revise: E23.4 (c)(ii) to read Heating of the pipe, sand and gaskets shall commence when the ambient temperature falls below -10 C. The pipe shall be heated throughout with a low heat immediately prior to installation (warm to the touch).

Revise: E26 to read Wastewater Sewers and Force Mains

E26.1 Description

- (a) This Specification shall cover the installation of the 150 mm force main and the 375 mm wastewater sewer main shown on the Drawings. This Specification shall amend, and supplement Standard Specifications CW 2110 and 2130.

E26.2 General

- (a) **Wastewater sewer and force main installation is intended to be by open cut methods except for the following trenchless location:**
 - (i) **Sturgeon Road North – Drawing 13436**
- (b) **Deviations from this methodology must be submitted to the Contract Administrator for approval prior to commencement of construction.**
- (c) Any road reconstruction required as a result of the Works will be considered incidental to **Error! Reference source not found.**8 Site Development and Restoration.
- (d) The term “force main” shall be considered equivalent to the term “watermain” for the purposes of this Specification.
- (e) Disinfection of the force main will not be required.
- (f) Flushing and pressure testing of the force main shall be completed in accordance with CW 2110 and **Error! Reference source not found.**3.

E26.3 Submittals

- (a) Submit shop drawings of all piping, fittings and appurtenances in accordance with CW 2210, 2130 and Section E5.

E26.4 Materials

- (a) All wastewater sewer piping and fittings shall conform to CW 2130 and shall be Poly Vinyl Chloride (PVC) pipe conforming to City Approved Product Standard CoW-SM-01.
 - (i) Dimension Ratio (DR) to be 35.
- (b) All force main piping and fittings shall conform to CW 2110 and shall be Poly Vinyl Chloride (PVC) AWWA C900 pipe conforming to City Approved Product Standard CoW-WM-01.

- (i) Dimension Ratio (DR) to be 18.
 - (c) Restrained joint PVC pipe shall be used for trenchless installations unless otherwise approved by the Contract Administrator.
 - (i) Approved product: IPEX Terrabrute, Westlake Certa-Lok RJIB or approved equal in accordance with **Error! Reference source not found.**
- E26.5 Equipment
- (a) All equipment, implements, tools and facilities used shall be of a size and type as required to complete the Work in a reasonable time, approved by the Contract Administrator. The Contractor shall keep all equipment in good working order, and always have sufficient standby equipment available, as required.
- E26.6 Construction Methods
- (a) Installation
 - (i) Installation of wastewater sewer pipe shall be by open cut methods in accordance with CW 2130 except where shown on the Drawings or otherwise approved by the Contract Administrator.
 - (ii) Installation of force main pipe shall be by open cut methods in accordance with CW 2110 except where shown on the Drawings or otherwise approved by the Contract Administrator.
 - (b) Trench Shoring and Excavation
 - (i) Work must be completed in accordance with CW 2030 unless otherwise indicated by the Contract Administrator.
 - (ii) The Contractor shall take precautionary steps to prevent damage from construction activities to adjacent properties. All damage to adjacent properties caused by the Contractor's activities shall be repaired to equal or better condition than prior to construction, as approved by the Contract Administrator. No separate measurement or payment will be made for the protection of adjacent private property.
- E26.7 Measurement and Payment
- (a) Measurement and payment for Force Mains shall be in accordance with CW 2110 for the diameter, class, bedding and backfill requirements listed on the Form B with the supplemental items listed below.
 - (b) Measurement and payment for Wastewater Sewers shall be in accordance with CW 2130 for the diameter, class, bedding and backfill requirements listed on the Form B with the supplemental items listed below.
 - (c) Excavation, Bedding and Backfill, as described in **Error! Reference source not found.**, are incidental to Wastewater Sewer and Force Main construction.
 - (d) Surface Restorations will be paid as described in **Error! Reference source not found.8.**
 - (e) Payment for the temporary or permanent relocation of existing utilities, and or temporary support of existing utilities required for the placement of shafts shall be incidental to Wastewater Sewer and Force Mains as specified in **Error! Reference source not found.**
 - (f) Cost of shaft construction and associated shoring required for the installation of the works described herein, is incidental to Wastewater Sewers and Force Mains.
 - (g) Correction of alignment and grade exceeding the allowable variance will be at the Contractor's own expense.

Revise: E34.1.1 (a)(i) to read As listed in Form B: Prices and as shown on the Drawings, the 750 mm butterfly valves within Valve Chambers 1 & 2 are provisional. The CPKC Railway crossing application was submitted without any isolation valves shown at the rail crossing. Should CPKC

approve the crossing application as currently shown, (without the isolation valves), then the 750 mm butterfly valves will be removed from the project scope. If CPKC determines that these valves are required, then the 750 mm butterfly valves will be included in the project scope.

Delete: E34.1.1 (b)

Add: E34.3 (b)(i)

Regardless of whether the provisional butterfly valves within Valve Chambers 1 & 2 are included in the project scope, the Contractor shall supply spool pieces suitable to be installed in place of the butterfly valves, as shown on the Drawings, to allow for future replacement and maintenance.

Revise: E34.5 (a) to read

Supply and installation of Pre-Cast Concrete Chambers will not be measured and will be paid for at the Lump Sum Price for each type of "Pre-Cast Concrete Chambers" which shall be payment in full for all excavation, backfill, mounding of soils around chamber, supply and installation of pre-cast concrete chambers, insulation, valves, piping, spool pieces, fittings, appurtenances, miscellaneous metals and performing all operations herein described, and all other items incidental to the Work. Note: Chamber piping and fittings shall be considered incidental to the cost of the chamber up to and including the transition flange outside the chamber wall, as well as PVC flange adapters and any other fittings or appurtenances required to connect PVC piping to the chamber piping.

Add: E34.5 (b)

Provisional 750 mm butterfly valves for Valve Chambers 1 & 2 will be measured and paid for in accordance with CW 2110 and as listed in Form B: Prices

Add: E35.5 (a)(i)

PVC flange adapters and any other fittings or appurtenances required to connect PVC piping to the chamber piping shall be considered incidental.

Revise: E36.1 (a)(i) to read

This specification shall cover the supply, fabrication, transportation, handling, delivery and placement of piping, fittings and metal fabrications for all pre-cast concrete chambers, cast-in-place concrete chambers and stand pipes.

Revise: E37.1.1 (a)(i) to read

As listed in Form B: Prices and as shown on the Drawings, the 750 mm butterfly valves within Valve Chambers 1 & 2 are provisional. The CPKC Railway crossing application was submitted without any isolation valves shown at the rail crossing. Should CPKC approve the crossing application as currently shown, (without the isolation valves), then the 750 mm butterfly valves will be removed from the project scope. If CPKC determines that these valves are required, then the 750 mm butterfly valves will be included in the project scope.

Delete: E37.1.1 (b)

Revise: E37.3.2 to read

Check Valves

(a) A Reduced Pressure Zone assembly shall be installed to prevent backsiphonage and backpressure backflow of hazardous materials into the potable water supply as shown on Drawing 1-0798F-C0020-001.

- (i) Valve body shall be ductile iron with fusion bonded epoxy coating internal and external to AWWA C550.
- (ii) Valves shall be NFS 61 certified.
- (iii) Flange drilling to ANS IB16.1, Class 125
- (iv) Approved product: Febco MasterSeries LF860-FS or approved equal in accordance with B7.

Add: E37.3.3 (d)(iii)

Each actuator shall be equipped with a 450 mm (minimum) to 600 mm (maximum) diameter handwheel. Handwheel shall be made of cast iron or aluminum of the rimmed type, with finger grips. Direction of opening shall be counterclockwise. The handwheel

shall be located sufficiently away from the valve body and flanges such that personnel will not hit their handles on any obstructions while using the handwheel.

- Add: E37.4 (b) Install and test Reduced Pressure Zone assembly in accordance with manufacturer's recommendations and CSA B64.10.1.
- Add: E37.5 (b) Provisional 750 mm butterfly valves for Valve Chambers 1 & 2 will be paid in accordance with CW 2110 and as listed in Form B: Prices.
- Add: E39.3 (b) Supply and install heavy duty flap gate with round opening. Approved product: HydroGate Model 50C or approved equal in accordance with B7. Provide suitable PVC flange adapter.
- Add: E39.3 (c) Supply and install drop piping inside MH-04 as shown on the Drawings and as per manufacturer's recommendations.
- Revise: E46.1 (a) to read This Specification shall cover the supply and installation of topsoil and sod within Zones 1 & 2 as shown on Drawing 1-0798F-B0001-001. Topsoil and sodding shall be completed for maintained grass areas.
- Revise: E46.4 (a) to read The supply and placement of topsoil and sod will be measured on an area basis within Zones 1 & 2. The maximum area to be paid for shall be the area indicated on Form B: Prices, which is based on the area to be topsoiled and sodded as a direct result of the specified Works. Sodding area above this quantity shall be considered incidental to Site Development and Restoration. The area within Zone 2 is an estimate based on the works completed as part of Tender 109-2024.
- Revise: E46.5 (a)(i) to read The supply and installation of topsoil and sod for each Zone of Sodding will be paid for at the Contract Unit Price per square metre for each Zone of "Sodding" measured as specified herein, which price shall be payment in full for supplying all materials and performing all operations herein described, and all other items incidental to the Work included in this Specification.

DRAWINGS

Replace: Tender 220-2024 _Drawing_1-0798F-C0008-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0008-001

Tender 220-2024 _Drawing_1-0798F-C0009-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0009-001

Tender 220-2024 _Drawing 1-0798F-C0010-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0010-001

Tender 220-2024 _Drawing 1-0798F-C0015-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0015-001

Tender 220-2024 _Drawing 1-0798F-C0016-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0016-001

Tender 220-2024 _Drawing 1-0798F-C0017-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0017-001

Tender 220-2024 _Drawing 1-0798F-C0019-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0019-001

Tender 220-2024 _Drawing 1-0798F-C0020-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0020-001

Tender 220-2024 _Drawing 1-0798F-C0021-001 with Tender 220-2024 _Addendum_2 _Drawing 1-0798F-C0021-001

Tender 220-2024 _Drawing 1-0798F-B0001-001 with Tender 220-2024_Addendum_2_Drawing 1-0798F-B0001-001

Tender 220-2024 _Drawing 1-0798F-D0003-001 with Tender 220-2024_Addendum_2_Drawing 1-0798F-D0003-001

Tender 220-2024 _Drawing 1-0798B-C0008-001 with Tender 220-2024_Addendum_2_Drawing 1-0798B-C0008-001

Tender 220-2024 _Drawing 13434 with Tender 220-2024_Addendum_2_Drawing 13434

Tender 220-2024 _Drawing 13435 with Tender 220-2024_Addendum_2_Drawing 13435

Tender 220-2024 _Drawing 13436 with Tender 220-2024_Addendum_2_Drawing 13436

QUESTIONS AND ANSWERS

Q1: What is the frequency of CPKC train crossings at the project location?

A1: As provided by CPKC, this crossing is lightly used, with approximately 3-4 movements per day.

Q2: Is construction access to the Quail Ridge Apartments temporary easement finalized?

A2: The agreement for the temporary construction easement shown on Drawing 1-0798F-C0008-001 is not yet fully signed, however it is expected that this agreement will be in place prior to construction.

Q3: Can you provide information on the manufacturer and install date of the existing 600 PCCP feeder main?

A3: According to the City's records, the existing 600 PCCP feeder main was manufactured by CANRON and was installed in March 1968.

Q4: For the CPKC Railway Crossing, can a small boring unit (SBU) be used as an alternative trenchless installation method to Down the Hole Hammer for the CPKC Railway Crossing?

A4: This method is an acceptable alternative to DTH installation. Additional qualification requirements and specifications for this alternative method will be issued in a subsequent addendum.