



177-2024 ADDENDUM 03

CONWAY LIFT STATION 2024 UPGRADES

URGENT

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

ISSUED: April 26, 2023
BY: Mark Baker, P.Eng.
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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: 177-2024 Form B: Prices with 177-2024 Addendum 03 - Form B: Prices. The following is a summary of changes incorporated in the replacement Bid/Proposal Submission:

Form B(R1): Revise Item No. 26 to read: Applicable MRST (for items 17-23).

PART B – BIDDING PROCEDURES

Revise: B2.1 to read: The Submission Deadline is 12:00 noon Winnipeg time, May 2, 2024.

PART E – SPECIFICATIONS

Add: E26.4 (b): For the purposes of bidding, assume 10m of crack repair will be required and assume 5m² of spall repair will be required.

Add: E37.2.6 (h): 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. See D39.

(iii) Conform to manufacturer requirements regarding:

- Surface preparation including sand blasting.
- Conditions under which painting system can be applied.
- 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.

APPENDICES

Replace: 177-2024_Appendix_E_Instrument List with 177-2024 _Addendum_03 _Appendix_E_Instrument List-02

DRAWINGS

Replace: 177-2024_Drawing_C0001-001-01 with 177-2024 _Addendum_03 _Drawing_C0001-001-02

Replace: 177-2024_Drawing_P0002-001-01 with 177-2024 _Addendum_03 _Drawing_P0002-001-02

Replace: 177-2024_Drawing_P0003-001-00 with 177-2024 _Addendum_03 _Drawing_P0003-001-01

Replace: 177-2024_Drawing_M0005-001-01 with 177-2024 _Addendum_03 _Drawing_M0005-001-02

Replace: 177-2024_Drawing_M0008-001-00 with 177-2024 _Addendum_03 _Drawing_M0008-001-01

Replace: 177-2024_Drawing_M0009-001-00 with 177-2024 _Addendum_03 _Drawing_M0009-001-01

Replace: 177-2024_Drawing_M0010-001-00 with 177-2024 _Addendum_03 _Drawing_M0010-001-01

Replace: 177-2024_Drawing_S0003-001-00 with 177-2024 _Addendum_03 _Drawing_S0003-001-01

NMS SPECIFICATIONS

Revise: Section 33 31 23 Sanitary Sewer Force Main Piping

QUESTIONS AND ANSWERS

Q1: This question was not answered in Addendum 2: E32.3.14 (f) is contradictory with E32.1 (f). The 50% separation is typically only for the pump shaft itself and not for the U-Joint drive shaft and is not achievable for the drive shaft. The 15% separation noted in E32.1 (f) is typically what is allowed for these assemblies. Please confirm that the +/- 15% separation margin for the U-joint drive shaft is allowed.

A1: Please see the revision to E32.3.14 in Addendum 2.

Q2: the Meadows repair products on the drawing notes (1-0131L-S0005-001-00) are different from the tender docs (E26.3.1). Please clarify.

A2: Drawing 1-0131L-S0005-001-00 specifies WR Meadows – Gemite Cem-Kote Flex-CR System #2. E26.3.1 specifies Gemite Cem-Cote Flex-CR System #2. This is a spelling error. The product is Cem-Kote Flex-CR System #2. The two cotes listed in E26.3.1 are part of “System #2”. This is made clear in Appendix H. No contradiction is found between the drawing and the specification.

Q3: Part of the refinishing work calls for crack repairs and concrete spall repairs. Is there any idea of the amount of each type of repair?.

A3: See addition of specification E26.4 (b) above.

Q4: Instrument list references spec 43 21 13, but this section does not exist in the NMS document.

A4: Please see the revised instrument list.

Q5: Is it MPE, or the contractor's responsibility to build the DNP3 points map for the city's SCADA integration?

A5: MPE will be providing the DNP3 list and PLC programming.

Q6: Is the Smart Turner 6WM (1200RPM, 15.5" impeller) an approved alternate sewage lift pump?

A6: The performance curves were evaluated and found to not meet the requirements of the specifications. The pump meets duty points 1 & 2 at different speeds. Duty points 1 & 2 are listed as sub-clauses to E32.3.1 (b) which specifies the pump speed. The intent behind this is that these duty points both fall on the rated speed curve. The rated speed specified is 1200 RPM. Addendum 2 allowed an alternate rated (synchronous) speed of 900 RPM, however, duty points 1 & 2 must still fall on the rated speed curve. Slight deviations will be reviewed and may be allowed for duty point 2, however, duty point 2 must be reasonably close to 0 L/s at 27m to suit the control strategy. If this proposed is able to meet the performance requirements and the specifications as noted, it can be considered an approved equal. However, please note:

- that the impeller is still required to be 95% its maximum allowable size. (E32.3.1 (i))
- Duty points 1 & 3 must have an efficiency of 70% (E32.3.1 (d))
- Please confirm if the supplier has the ability to meet E32.1 (f)
- Submission showed that E32.3 & E32.4 are met or exceeded adequately. Pump/motor/supplier must also meet or exceed the requirements of E32.1, E32.2, and E32.5

Q7: Regarding E37, Can the contractor use any of carbon steel, ductile iron, or stainless steel for the Piping?

A7: E37.2.5: Carbon Steel: Specified in the drawings for process piping inside the lift station.

E37.2.6 Ductile Iron: Specified in the drawings for process piping inside the bypass valve vault.

D37.2.7 Stainless Steel: Specified for the spool of pump suction pipe penetrating from the dry well into the wet well. See revised drawings.

Q8: Regarding E37.2.6, What (if any) is the paint Specs for the Ductile iron pipe exterior?

A8: Same as for carbon steel E37.2.5 (g).

Q9: E37.2.6 (f) calls for A307 Grade B Flange bolting, E37.2.16.(a) calls for 316ss Hardware, is this just for all other fasteners?

A9: E37.2.16 is for all fasteners not otherwise specified in their own sections. Requirements of E37.2.5 and E37.2.6 are to supersede E37.2.16 for process piping fasteners.

Q10: E37.2.9 specifies Dismantling Joints: I do not see these on the drawings, is this an Oversight?

A10: Dismantling joints are not on the drawings, however, Victaulic couplers (or approved equal) have been added for pipe dismantling in the revised drawings included with this addendum. These were added to accommodate pipe dismantling and assembly. The hole cored through motor room floor for discharge piping may be cored slightly larger than 200mm to accommodate the angled removal of the pipe spool below the flow meter once the coupler has been detached below.

Q11: Does carbon steel process piping transition to HDPE force main at the compression coupler shown in drawing M0009 Detail B?

A11: Yes

Q12: Drawing C0001-001 Detail A – Does the Vertical spool need to be Carbon Steel?

A12: It is to be ductile iron. See revised drawings.

Q13: Drawing C0001-001 Detail A – Does the Vertical spool need to be Carbon Steel?

A13: It is to be ductile iron. See revised drawings.

Q14: Drawing S-0003 Detail 1 (pipe penetration from dry well into wet well) says Carbon Steel pipe, does this particular piece need to be Carbon Steel? Also does the Puddle flange need to be SS regardless of the pipe material?

A14: This piece (pipe penetration from dry well into wet well) is to be stainless steel. See revised drawings. The similar detail at the walls of the bypass valve vault is to be ductile iron. In both cases the puddle flange material is to match the pipe material.

Q15: Drawing M0011-001 – Detail 5 – What is the Thrust Value required for this, SS thrust plate should not be welded to DI or Carbon Steel pipe.

A15: Correct. The thrust plate material is to match the pipe material. Both are to be carbon steel. Thrust value to be used is 15 kN.

Q16: Would you entertain a two-week extension to close?

A16: The deadline is extended to May 2, 2024. See the revision to B2.1 above.

Q17: Which Form B items are bidders to apply the PST to?

A17: See the updated Form B included in this addendum.

Q18: What are the forcemain limits and connection details?

A18: See drawings C0001-001 and M0008-001 for force main extents and connections.

Q19: Please clarify the payment structure in section 33 31 23.

A19: See the revised specification.