



301-2024 ADDENDUM 5

CONSTRUCTION OF A NEW WASTEWATER LIFT STATION – CENTREPORT SOUTH REGIONAL WATER AND WASTEWATER SERVICING PHASE 1A (CONTRACT 1A)

ISSUED: July 31, 2024
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URGENT

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

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.

PART E – SPECIFICATIONS

Revise: E30.1.(c) to read: Subdrain discharge pipe shall be SDR 35 PVC pipe connected to HDPE Type SP pipe with Class 2 perforations, using a coupling compatible with both pipes outer diameters.

NMS SPECIFICATIONS

Section 23 33 15 – DAMPERS OPERATING

Add the following to Section 2.2 Relief Dampers

- .12 Acceptable Product: Ruskin CBDR82 or approved equal in accordance with B8.
- .1 Approved Equals: Greenheck HBR-050.

Section 23 82 39.23 – UNIT HEATERS - ELECTRIC

Add the following to Section 2.1 Unit Heaters

- .10 Acceptable Product: Modine model HER or approved equal in accordance with B8.
- .1 Approved Equals: Ouellet OAS.

Section 22 05 15 – PLUMBINGS SPECIALTIES AND ACCESSORIES

Add the following to Section 2.6.2 Diaphragm Expansion Tank: Specific Requirements: V-L50

- . 2 Acceptable Product:
 - .1 Series “PTA” (ASME) rated pre-charged diaphragm-type tanks as manufactured by Bell & Gosset, or
 - .2 series “Well-X-Trol” as manufactured by Amtrol, or
 - .3 approved equal in accordance with B8.
- .1 Approved Equals: AST Series as manufactured by Armstrong.

Section 05 50 00 – METAL FABRICATIONS

- Add 2.1.9 Cold-formed roof members conforming to CSA S136
- Add 2.1.10 Roof deck conforming to ASTM A653M
- Add 2.2.3 Cold-formed roof members: Z180 Galvanizing in accordance with ASTM A653M
- Add 2.2.4 Roof deck: ZF75 galvaneal finish in accordance with ASTM A653M

QUESTIONS AND ANSWERS

Q1: Can you provide values for the till and bedrock for friction angles, active/passive soil coefficients and lateral bearing resistance of the bedrock?

A1: Friction Angle – Please review Table 6-2 of the GBR for baseline effective shear strength parameters of the till. Active/passive soil coefficients – Please review Table 6-2 of the GBR for baseline effective shear strength till parameters that can be used to calculate active/passive soil coefficients. Lateral bearing resistance of the bedrock – A baseline value for UCS of bedrock is provided in Table 6-3 and bidders can use this value to estimate bearing resistance.

Q2: The specification section E30.1 (c) references HDPE Type SP, please advise what this is?

A2: It is double wall perforated piping. Manufacturers of HDPE Type SP are available via the City's approved products list. The following are listed as approved products on the City's approved products list: ADS-N12 ST IB Pipe – 320 kPa, Boss 2000 HDPE Pipe – 320 kPa and ADS – N12 WT IB Pipe 320 kPa.

Q3: Based on the constructability of the wells and the placement of the caissons there is only 620mm left for the shoring to be installed. We are looking at installing secant wall. If we were to install the shoring the caissons could not be installed as designed.

A3: The dry/wet well base slabs and superstructure piles were designed with sufficient clearance to install traditional shoring (i.e. methods other than secant pile shoring methods). It was anticipated that the superstructure piles would be installed after the shoring was removed and the excavation backfilled, so that the shoring and piles would not conflict. A secant pile shoring system would be considered if a formal request was made after contract award. Given the diameter of the secants required for this method, the secant piles would likely need to double as the permanent superstructure support system as well (i.e. the secant piles would also act as the building piles) in order to minimize the area of excavation. The centerline of the secant piles would need to match that of the building piles (8m center-to-center in north/south direction). Coordinated effort between the contractor's shoring engineer and the original design engineers would be needed to facilitate this during the construction stage. This may include altering the concrete mix used, adding additional pile reinforcing, increasing pile length, diameter, etc.

Q4: What are the extents of the HDPE lining required in the wet well? At what elevation does the liner transition to epoxy coating?

A4: The design intent is to line the entirety of the wet well (lid, precast sections and cast in place base) with HDPE liner. The liner is intended to be cast in with the CIP portion and then welded to the precast portions on top. The epoxy coating is only required for touch-up as needed on locations such as pipe penetrations or any other exposed concrete in the chamber.