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April 16, 2025

Addendum No. 03

File Reference Number: RFP 2025 008

Title: North Bay PRV Stations Installation and Water Main Modifications

RE: Clarifications/Questions

QUESTIONS/CLARIFICATIONS:

Please refer to the following information/clarification:

Item 1: Part 3 – RFP Specifications – Schedule 3-A-2 – Technical Specifications

Please find below additional Issued for Tender Specification prepared by Piotrowski Consultants Ltd. These specifications are attached at the end of this Addendum for your reference.

- Section 15412 – Domestic Water Supply – Copper

This Addendum hereby forms part of the RFP.

Regards,

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ONTARIO NORTHLAND
DOMESTIC WATER PRV INSTALLATIONS
NORTH BAY, ON

M/E ADDENDUM NO. #1 **APRIL 15, 2025**

The following addendum shall be part and parcel of the tendering document and shall supersede the drawings and/or specifications where applicable. Upon receipt of same, staple it directly to the inside front cover of the specifications.

Specification:

1. Refer to Specifications Section 15412 – Domestic Water Supply – Copper, be added to the contract documents:

    1. Press fittings by Viega or Appollo will be accepted up to NPS 4
    2. Valves & fittings shall all be by same manufacturer.

Drawings:

1. Refer to 2/M102:

    1. Contractor shall site verify and replace existing galvanized threaded thrust rods and collar for the car shop PRV station similar to 2A&2B/M103 (Diesel Shop/Wheelhouse PRV station). If site conditions reveal threaded rods anchor into concrete, cut back threaded rod with 12” above slab, provide new threaded couplings and provide new galvanized threaded rods from couplings to flange.

Andrew House.,M.A.Sc., P. Eng

PART 1- GENERAL

1.1. GENERAL

1. Division 1, General Requirements is part of this Section and shall apply as if repeated here.
2. All brass, bronze fittings and valves shall be “Lead Free Design”.

1.2. REFERENCE STANDARDS

1. Do the work in accordance with Ontario Building Code and local authority having jurisdiction except where specified otherwise.
2. LEED Canada for New Construction and Major Renovations 2009.

1.3. SHOP DRAWINGS

1. Submit product data in accordance with Section 01300 - Submittals.
2. Indicate the following: valves.

PART 2- PRODUCTS

2.1. PIPING

1. Domestic hot, cold and recirculating tubing, within building.
    1. Above ground: copper tube, hard drawn, type L: to ASTM B88M-16.
    2. Buried: soft copper tube, type K soft, with silfoss soldered joints: to ASTM B88M-16.

2.2. FITTINGS

1. Brass or bronze flanges and flanged fittings: to ASME B16.24-2021.
2. Brass or bronze threaded fittings: to ASME B16.15-2024.
3. Cast bronze to ASME B16.18-2012 or wrought copper and bronze to ASME B16.22-2021.
4. Press fittings by Appollo OR Viega shall be accepted for pipe sizes up to NPS 4.
5. Roll groove full flow standard radius cast bronze fitting for sizes NPS 4 and larger to AWWA C606 are also acceptable.

2.3. JOINTS

1. Solder, tin antimony, 95:5 to ASTM B32-08 (2014) or approved type lead free – up to NPS 2 1/2.

2. Silver brazing alloy – NPS 4 and larger.

3. Roll grooved piping to be made up with roll groove positive clamp gasketed couplings or roll groove flange adapters for copper piping to AWWA C606. For NPS 4 and larger

4. Press fittings by Appollo OR Viega shall be accepted for pipe sizes up NPS 4

2.4. VALVES

1. Ball Valves:

    1. For Sizes 50mm (2”) and under 1034KPA (150psig) 600 WOG, Brass Body to NSF/ANSI 61-G (Lead Free Brass) Full Port, PTFE Seats, Double ”O” Ring or Teflon packing. TEA Plated Forged Brass C49300 Vented Solid Ball, Blowout Proof Stem, Lever handle. Provide stem extensions on all valves with greater than 1" insulation.

        1. Standard of Acceptance: Kitz 859 (Solder) Kitz 858 (NPT) or equivalent by Toyo.

    2. NPS 2 1/2 and over, grooved ends: Epoxy Coated Cast Iron Body Grooved ends, Teflon Fused Solid Ball, Full Port Rated 200 WOG @200F Class VI shutoff, 100% Lead Free,Ansi,NSF61-8

        1. Acceptable material: American 3700V or Approved Equal
        2. Option American 3700 Flanged end connection 2” to 8” or Approved Equal

    3. Valves & Fittings shall be of same product line.

2.5. GATE VALVES

1. Gate valves NP 2 ½” and over flanged:

    1. 850 kPa, to MSS SP-70, Class 125, cast iron body with flat faced flange, bronze or bronze faced solid wedge disc with bronze seat rings, rising stem, OS & Y, bolted bonnet.

        1. Standard of Acceptance:

            1. Kitz 72
            2. Crane 465 ½
            3. Jenkins 454J
            4. Newman Hattersley #504
            5. Nibco F-617-0

    2. 1000 kPa, to ASTM A216 grade WCB, Class 150, cast steel body with raised faced flange, flexible Type 416 stainless steel disc and hard faced seat rings, rising stem, OS & Y, bolted bonnet.

1. Standard of Acceptance:

    1. Kitz 150 SCLS
    2. Crane 47XUT
    3. Jenkins J1009B8F
    4. Newman Hattersley #C1481

3. 1000 kPa to 2000 kPa, to ASTM A216 grade WCB, Class 300, cast steel body with raised faced flange, flexible Type 416 stainless steel disc and hard faced seat rings, rising stem, OS & Y, bolted bonnet.

    1. Standard of Acceptance:

        1. Kitz 300 SCLS
        2. Crane 33 ½ XU-F
        3. Newman Hattersley #C1482

2.6. GLOBE VALVES

1. Globe valves NPS 2 and under, soldered:

    1. 850 kPa, to MSS SP-80, 300 CWP, bronze body, renewable composition PTFE disc, threaded over bonnet, lock shield handles as indicated.

        1. Standard of Acceptance:

            1. Kitz 10
            2. Crane 1334/1320
            3. Jenkins 813J
            4. Newman Hattersley 13 with NPT copper adaptors
            5. Nibco S-235-Y

2. Globe valves NPS 2 and under, threaded:

    1. 1000 kPa, to MSS SP-80, Class 150, bronze body, renewable composition PTFE disc, union bonnet, lock shield handles as indicated.

        1. Standard of Acceptance:

            1. Kitz 09
            2. Crane 7TF
            3. Jenkins 106BJ
            4. Newman Hattersley 13
            5. Nibco T-235-Y

PART 3– EXECUTION

3.1. INSTALLATION

1. Connect to fixtures and equipment in accordance with manufacturer’s instructions unless otherwise indicated.

2. Install tubing close to building structure to minimize furring, conserve head room and space.

Group exposed piping and run parallel to walls.

3. Cut square, ream and clean tubing and tube ends, clean recesses of fittings and assemble without binding.

4. Lay buried tubing in accordance with AWWA Class “B” bedding.

5. Isolate equipment, fixtures and branches with gate valves.

6. Provide necessary chemicals and equipment and disinfect system to requirements of authority having jurisdiction.

7. Pressure test piping before insulation is applied.

8. Balance supply systems and recirculation systems using DVR (double regulating valve).

9. Install shut off valves at branch take-offs, in locations shown, and to isolate piping to each piece of equipment.

10. Select valves with pressure rating as specified for piping service and location.

11. Install valves in upright position with stem above horizontal.

12. Remove internal parts of valves before soldering, welding or brazing pipe to valve body.

13. Valve hand wheels and operating levers to be accessible.

14. In equipment rooms and service spaces provide chain operators for valves mounted more than 2 m above floor or access platform. Chains to extend to 1.5 m above floor or platform and to be hooked on clips secured to building structure, clear of walking aisles.

15. Coordinate with the Authority Having Jurisdiction to witness tests and inspect work as required.

END OF SECTION 15412