



## PROCUREMENT SERVICES

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### ADDENDUM No. 1

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INVITATION TO TENDERERS No.:	1220-020-2021-003
TITLE:	DISTRICT ENERGY SYSTEM ENERGY TRANSFER STATIONS (ETS) AND INTERIOR PIPING CONSTRUCTION
ADDENDUM ISSUE DATE:	SEPTEMBER 20, 2021
CLOSING DATE AND TIME:	ON OR BEFORE THE FOLLOWING DATE AND TIME (THE "CLOSING TIME"): TIME: 11:00 A.M. (LOCAL TIME) DATE: SEPTEMBER 23, 2021

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### INFORMATION FOR TENDERERS

Tenderers are advised that Addendum No. 1 to 1220-020-2021-003 is hereby issued by the City. This addendum shall form part of the contract documents and is to be read, interpreted and coordinated with all other parts. The following information is provided to answer questions raised by Tenderers for the above-named project, to the extent referenced and shall become a part thereof. No consideration will be allowed for extras due to the Tenderers or any sub-contractor not being familiar with this addendum. This Addendum No. 1 contains three (3) pages.

### CLARIFICATIONS:

The following changes shall be made to the contract drawings:

1. On Drawing D-104, replace the primary space heating drain labelled "BV-01" with the label "BV-02". This will be updated in the IFC drawing set and Contractors shall incorporate this change in the bid pricing.
2. On Drawing M-501, the following 'Specific Notes' should be revised. This will be updated in the IFC drawing set and Contractors shall incorporate this change in the bid pricing.
  - a. Specific Note 2 "Insulate to support turnbuckle" should read "For pipe size NPS 4" and smaller an approved anchor can be utilized"
  - b. Specific Note 3 "Tack weld clamp to pipe after installation" should read "Insulate to support turnbuckle"
  - c. Specific note 3 on detail F should be located beside callout "Fig. 230 c/w lock nut" not the spring hanger callout

**QUESTIONS AND ANSWERS:**

**Q1.** The specifications note to flush the piping system at a water velocity of 2.0 m/s, which will require a high-velocity pump and temporary piping for bypasses at several locations. This flushing setup can time consuming and could have schedule implications. Will a system-water purge flush be acceptable to minimize schedule impacts?

**A1.** A purge, for flushing, is acceptable if the Contractor can demonstrate 2.0 m/s is achieved.

**Q2.** The stress analysis table for the Townline ETS (drawing M-214) notes that for four nodes the Contractor is to submit the pipe support detail. As the piping system is to be registered, is the support detail required to be stamped by a professional engineer?

**A2.** Yes, the submittal should meet the support type listed in the table (+Y, guide, limit stop, etc.) and be submitted to the design engineer for approval. Per general note 1 and 6 on M-501, all support shop drawings are required to be stamped/reviewed by a professional engineer registered in B.C.

**Q3.** The specifications for flanges call for stainless steel bolts and nuts, these are significantly more costly than the carbon steel equivalent and not as readily available. Will carbon steel bolts and nuts be acceptable?

**A3.** Stainless steel is preferred but Grade 8 Carbon Steel will be acceptable. Stainless steel must be used on stainless flanges.

**Q4.** The specifications for hot water piping note that welds are to be radiographically and visually inspected by a third party. Please confirm that only welds on the district heating side require inspections.

**A4.** Welds on both primary and secondary side piping require inspections.

**Q5.** The Anthem Georgetown ETS is noted be complete in January 2022. However, typical lead time on major equipment is 12-14 weeks. Can the timeline be extended?

**A5.** At this time, the completion date will not be changed.

**Q6.** For the project noted above, are you able to provide Electrical drawings? It is difficult to estimate the electrical portion of this project with no drawings. Please advise in an addendum.

**A6.** ESC Automation is the pre-approved controls supplier and can be contacted for pricing of electrical and controls portion of this work.

**Q7.** We are kindly requesting a 2-week extension to the tender based on the response from our pump and valve suppliers. We will also need adequate time to review the Electrical drawings which we do not have. Please provide a 2-week extension in the next addendum. It will be much appreciated.

**A7.** Due to schedule and milestone dates an extension will not be granted.

**Q8.** We are working on a quote for the above-mentioned project as a mechanical sub. I had a question regarding the strainers specified. The Mueller 781 has class 150 flanges and is rated for 285psi. However, the system test pressures are up to 450psi. Please specify a class 300 strainer.

- A8. Mueller 781 can be used for buildings with operating pressures less than the pressure rating of the strainer if it is removed for hydrostatic testing. For higher pressure systems, class 300 strainers and components are required. Refer to P&IDs for design pressures.**
- Q9. At Legion Veteran's Village, when will the block walls be installed leading to the DE room and is there flexibility to have them installed after the ETS is in place?**
- A9. The building confirmed that a few block walls can be left out for the ETS. The ETS must meet the following dimensions in order to fit through the openings: 2.6 m x 1.6 m x 2 m high.**
- Q10. At Legion Veteran's Village, will the tower crane be available to carry a skid near the DE room and what is the maximum capacity of the crane?**
- A10. Maximum crane capacity is 15,000 lbs., however, the crane will be removed approximately February or March 2022.**

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All Addenda will become part of the Contract Documents.

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- END OF ADDENDUM -