

**INVITATION TO TENDER "ITT" NO. PS20180897
CONSTRUCTION SERVICES FOR PUMP STATION REPLACEMENT AND WASHROOM ADDITION**

QUESTIONS AND ANSWERS NO. 6

ISSUED ON FEBRUARY 15, 2019

Q1	<p>Please review attached and advise if the Eaton's VFD DG1 is acceptable in lieu of the item specified.</p> <p>Regarding the product voltage rating and the specified voltage rating, based on the information available The product we propose meets the intent of the application, please advise if there are any concerns.</p>
A1	Eaton is not approved as a supplier for the VFD's.
Q2	<p>ASCO has received a request to provide a proposal to supply the 400Amp/600Volt automatic transfer switch for this project for the city of Vancouver. Part 2.1.8 of Section 16301 lists a specific manufacturer or approved equivalent & I would like to request that the ASCO 7000 Series automatic transfer switch as per attached be approved. ASCO is the leading manufacturer of automatic transfer switches and the ASCO 7000 Series has been the standard on previous pump stations for the city of Vancouver. If you have any questions or concerns or would like to meet to discuss further please let me know.</p>
A2	The ASCO 7000 Series ATS is an approved alternate ATS. The Contractor is still responsible for ensuring that the transfer switch provided meets all the requirements of the specification.
Q3	<p>Can you confirm with the following with the engineers.</p> <p>Section 09900 - Painting, Paint System P1, does this include all interior staircase stringers and handrails as well as "I" beams and underside of Q-decking?</p> <p>Or can all this be galvanized?</p>
A3	<p>Paint System P1 applies to all handrails, staircase stringers and 'I' beams and other steel sections inside the building. The Q-decking is not required to be painted with Paint System P1 but is zinc coated as per Specification 5120 section 2.1.5.</p> <p>The 'I' beams supporting the Q-decking could be galvanized instead of painted. Touchup painting with a suitable zinc rich paint such as Galvafruid will be required at any location where the galvanizing is compromised.</p>
Q4	Upon further review of this Tender, we noticed there are some Mixers to quote.

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	Are you able to review the Sulzer/ABS selection for the mixer. We would like to have it approved as an equal or alternate, as well.
A4	<p>The City of Vancouver pump stations utilizes Flygt mixer pumps and stocks replacements for these mixers ensuring that there is no down time during the periods where the mixer is removed for servicing or refurbishment, in the Flygt Service Center. There would have to be a minimum ten year parts and labour warranty on all products from an alternate supplier, and a local repair facility, to warrant approval as equal as the City of Vancouver cannot justify stocking different replacement units for a single station.</p>
Q5	<p>We are submitting this to request that our products be accepted as alternates to the approved manufacturers below and if possible, named in an addendum so that contractors will not be taking a risk by carrying non-named manufacturers.</p> <p>Our proposed products are comparable to those that are specified in terms quality and performance. Pratt has been in the valve business for nearly 100 years and Hydro Gate for more than 100 years and both companies have a reputation for high reliability.</p> <p>Section 11405 Slide Gates - Slide Gate Approved product: Waterman Industries, Whipps Inc., Fontaine Aquanox</p> <ul style="list-style-type: none"> Proposed Product: Hydro Gate Model HG561 Fabricated Stainless-Steel Slide Gate <p>https://www.hydrogate.com/sites/hydrogate.com/files/uploads/media/hg_fabsli degatebroudate_f13298_v2_1.pdf?ID=57</p> <p>Section 15320 Plug Valve Specification Sheet (PL-01) - Plug Valve Approved product: Dezurik 8F or V, 6, RS17, Valmatic Cam-Centric</p> <ul style="list-style-type: none"> Proposed Product: Pratt Fig. 601 Ballcentric Plug Valve <p>https://www.henrypratt.com/sites/henrypratt.com/files/uploads/media/prattballcentriceccentricplugvalveupdate_f13271_final_v4-web.pdf</p> <p>Section 15330 Check Valve Specification Sheet (CV-13) - Check Valve Approved product: Val-Matic Series VM-500</p> <ul style="list-style-type: none"> Proposed Product: Pratt RD-Series Check Valve <p>https://www.henrypratt.com/sites/henrypratt.com/files/uploads/media/pratt_rd</p>

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	checkvalveupdate_f13286_final-web.pdf
A5	<p>1) Hydrogate is an approved supplier for the stainless steel slide provided that all requirements of the specifications are met including dimensional specifics, mounting and actuation. Note that if the alternate product requires changes to the mounting system the Contractor will be responsible for redesign record drawing production.</p> <p>2) Pratt is an approved supplier for plug valves. The Contractor is responsible to ensure compliance with all other aspects of the specifications.</p> <p>3) The Pratt check valve does not appear to include a manual backflow actuator and is therefore not accepted.</p>
Q6	There's not much product specification for Emergency Lighting in Section 16500. There's no specified approved manufacturer either in lighting fixture schedule. Suppliers want to know more about the product which the city preferred in this type of application.
A6	No specific fixtures preferred, Acceptable product: AimLite EBST12-2L or equal
Q7	Also there's no exit sign shown in lighting drawings E-103 and E-104. Is exit sign not required in this project?
A7	Exit signs not required. Building is less than 2 stories, and occupant load is less than 150/no fire escape as part of means of egress.
Q8	Drawing A2.1 -South Elevation shows 2 signages on Washrooms: Please provide the size, the materials, and specifications
A8	Signage will be supplied by the City of Vancouver and will be installed by the Contractor. The signage will be adhesive backed, no bolting/drilling required.
Q9	Drawing A2.1 West Elevation shows Interpretive signage: Please provide the size, font and wording, the materials, and specifications
A9	This is the interpretative wall panel supplied by Owner. The Contractor is responsible for providing and installing the supports and for receiving and mounting the panel in accordance with dwg. S241 and section 1.6 of Specification 01110
Q10	Please provide the Classes and specifications of the concrete for: Mus Slab, Benching, Concrete topping on steel deck, concrete topping on precast slabs, Concrete in Wet well, and concrete in dry well

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A10	See specification section 03310 Section 2.2.
Q11	For the concrete exposed to sewage water(Wet well): do you require special concrete mix?
A11	Benching concrete is as per requirements in section 03310 section 2.2 All other concrete and shotcrete inside the wet well to be as per Specification Sections 03310 and 03713 with the exception that the exposure class shall be changed from A-2 to A-1 in accordance with CSA A23.1. These Specification sections will be updated at IFC.
Q12	Do you require epoxy coating inside the pump room and the wet well?
A12	No epoxy coating required
Q13	Can you confirm that Schedule K of the Form of Tender is required at the time of Tender for all our suppliers as this schedule alone could be 50 pages or more. If this Schedule is required, can you please provide a list of what materials are required for this article of the Form of Tender?
A13	Schedule K should be submitted with the Tender and contain a high level list of materials and suppliers.
Q14	Drawing A in the Bypass Memo shows Valves V-1 to V-5. These valves doesn't show on Drawing C-102 Proposed Site Piping Plan. Please clarify.
A14	The valves V-1 to V-5 were labelled on Drawing A in the bypass memo to allow easy reference in the suggested construction sequence on the text of the bypass memo. These valves show up on C-102 but are not provided with labelling and are not referred to as V1-V5 other than in the bypass memo.
Q15	Drawing C-102 shows 500mm Steel Sewer Pipe between MH-S1& the new Wet Well; however drawing A shows the same pipe 525mm DR35 PVC . Please clarify
A15	Steel pipe as per Drawing C302 - Detail 1 and note on Drawing C-301 Section 3
Q16	In the Form of Tender, Schedule K Declaration of Supplier Code of Conduct Compliance, please clarify if the requirement is to have the GC complete this declaration on behalf of all of their suppliers or if each individual supplier that the GC has carried in the bid price will need to complete this form.
A16	The Tenderer should fill out the Declaration of Supplier Code of Conduct on behalf of their suppliers.
Q17	In Section 01200, Clause 2.5 it states that "the City will pay the permit costs of the new water connection....The Contractor is repsonsible for applying for the water service line." whereas on Dwg. C-102 has a note on it stating that the "Contractor

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	<p>is responsible for a water connection application and water/sewer connection permit"</p> <p>Can you please confirm that the city will pay for all permit costs associated (including application fees) with this water line and will be paid for by the City. That the contractor is responsible for filling out the application only?</p>
A17	<p>The Sewer Permit shall be limited to an Inspection Fee only and is paid for as part of the Building Permit.</p> <p>The Water Permit fees shall be paid for by the City of Vancouver; however, the Contractor is responsible for the balance of the application process including liaison with the City regarding the permit requirements, determination of all information required by the permit and all other work required to secure the water permit.</p>
Q18	Is the Contractor responsible for a permit to remove existing trees? Do you require a separate permit for each tree?
A18	The City of Vancouver will be responsible for removing existing trees.
Q19	East, west, and north elevation facades Has prefinished metal cladding (section 07410); doesn't have line item in the tender form. Please advise.
A19	Include in line item 9.3 - Architectural Cladding
Q20	Can wiring being concealed in walls of pump house? Electrical Specification allows for concealed wires, but electrical contractor is concerned actual construction does not.
A20	Wiring cannot be concealed in the walls of the pump house. Superstructure walls are solid CLT and substructure walls are shotcrete.
Q21	Electric door openers are shown on architectural drawings for both public washrooms, however there is no allowance for power on electrical drawings.
A21	See A2 on QA#4
Q22	Is there information available to determine how much heat trace cable is required in the public washrooms?
A22	No heat trace required. Deleted.