

INVITATION TO TENDER "ITT" NO. PS20181272
GENERAL CONTRACTOR FOR CONSTRUCTION OF SMITHE AND RICHARDS PARK

QUESTIONS AND ANSWERS NO. 4

ISSUED ON August 30, 2018

Q1	<i>Please provide a Fire Alarm Symbol/Data/Security device symbol schedule. There are a handful of symbols on drawing E102 that are not listed on the symbol schedule.</i>
A1	Additional symbols related to fire alarm and communications added to E000. (See Addendum No. 3 for revised drawing).
Q2	<i>Drawing E102/ Gridline: C-3/4, please confirm that Key Note (2) does not apply to the UH-1 and UH-2 equipment.</i>
A2	Can confirm that Key Note (2) applies only to baseboard heaters (tagged: 'BB - X'). Unit Heaters are also to be supplied by mechanical.
Q3	<i>Has directional drilling been approved by BC Hydro for the electrical conduits for the EV Charging stations? On the electrical drawing E100 shows the detail on the lower left shows two conduit, one for power and the other for communication. This shows a directed buried installation with a warning tape. This is not possible with drilling as the tape cannot be installed. Please clarify.</i>
A3	<p>New conduit extension for EV charging stations will be owned by CoV. BC Hydro to only provide (1) 90-degree duct elbow at lane mouth to connect to existing duct. CoV has directed that the conduit for EV charging stations be directionally drilled to minimize damage to existing trees along sidewalk. Drawing E100 'Servicing Ductbank Detail' is for BC Hydro and Telus services to Park Kiosk only.</p> <p>Final design to be approved by CoV Utilities Management Branch. - See Section 5.14 of the CoV 'Utilities Design Construction Manual' (see Section 5.21 and Appendix C of same document for test hole installation standards)</p> <p>Per CoV Utilities Management Branch representative: We advise utility companies and their contractor to contact BC One before digging and daylight all existing utilities prior to starting work. The standard depth for third party utilities ranges from 0.91 to 1.07m. You are required to submit a drawing showing the proposed installation</p>

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	<p>of 1 - 4" DB2 conduit. The drawing must show all existing utilities correctly dimensioned and labelled. We also require offset and description of the proposed ducts or pipes. Offset distances are required from the closest cross street or lane property line.</p> <p>See CoV 'Utilities Design Construction Manual' for additional details. Installation to also conform to CEC 2015 requirements.</p>
Q4	<p><i>Addendum #1 add Item Section 05 12 33 # 2.4.21.1 Westview Technologies as an acceptable structural steel fabricator. Are there other acceptable fabricators or are they the only acceptable fabricator? Please specify what fabrication items they are to do.</i></p>
A4	<p>Westview Technologies is preferred however not the only acceptable fabricator. A preapproved alternate steel fabricator is acceptable providing they can demonstrate examples of built work showing their ability to achieve the desired standard for the Smithe and Richards park. The fabrication items include the bridge and skyframes.</p>
Q5	<p><i>Section 01 31 26 Digital Communications Protocol Item 3.4.6.5.1 states that Contractor will be required to use Onware Digital Project Management Software System for submissions. Please confirm that contractor will be add as a user to the consultant's software system at no cost to the contractor.</i></p>
A5	<p>Yes, the contractor will be added as a user at no cost to the contractor.</p>
Q6	<p><i>Drawing L9.31, Wood Decking and Seat Top Details references the bench material as being 4 x 4 Tight Knot Yellow Cedar non-heartwood, S4S, eased edges, free of splits, cracks, large knots and other defects. However the specification Section 06 40 13 Exterior Architectural Woodwork, Item 2.1.2.1 references Western Red Cedar Decking S4S WRCLA "Architect" knotty or better, air dried/seasoned. Please clarify what lumber grade is required for the 4 x 4 Yellow Cedar Seat Tops.</i></p>
A6	<p>Please replace all Tightknot Yellow cedar with Tightknot Western Red Cedar as per "Questions and Answers No. 3, A32". The Decking is pressure treated Douglas Fir. (See Addendum No. 3 for revised specification).</p>
Q7	<p><i>The Skate Deterrent noted on Drawing L9.51 appears to be for concrete surfaces, please specify a Skate Deterrent suitable for a wood surface, specifically the Wood Decking and Seat Tops shown on drawings L9.30, L9.31 & L9.32.</i></p>
A7	<p>The skate deterrant D90-8 will be replaced by D90-6. The skate deterrent can be used for concrete and wood. The deterrant should be placed in between the wood bench top slats. The deterrant can be secured between the slats by using the locking pin installation option on one or both sides of the wood slats. Refer to the manufacturer's instructions for further details.</p>

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Q8	<i>Please clarify if the WunderCovers access tray in the unit pavers, detail 1/L9.12, is to be galvanized metal or stainless-steel.</i>
A8	The Wunder Cover access tray is to be galvanized metal.
Q9	<i>Detail 3 on A521 states "decking fastened to threaded stud bolt welded to top chord of truss with recessed stainless-steel tamperproof nut and washer position in center of deck boards". Will a single stud be adequate to prevent the wood decking from cupping? Cupping of the wood decking could create tripping hazards on the surface of the bridge deck.</i>
A9	Deck boards are to be installed with the grain direction facing downwards and fastened with a single stud on centres to reduce the effect of cupping.
Q10	<i>Detail F50 on S0.04 references a "Factored Resistance = 500 KN", is this load acting only in tension or is there a compression design component? Is there a minimum anchor nut torque to be applied to these soil anchors?</i>
A10	Factored tension = 500 kN. Install nuts snug tight.
Q11	<i>Detail 11 on S6.10 appears to be missing some components where the pile attaches to the cap plates. Should there be a pipe or some other form of HSS welded to the bottom of the cap plate, this would prevent the top of the Micropile from bending or cracking once it was loaded? What is the minimum anchor nut torque to be applied to these micropiles, is snug tight plus a quarter turn acceptable? Is the hex nut at the distal end of the anchor rod required for all micropiles?</i>
A11	See Addendum No. 3 for revised drawing. Install nuts snug tight. Hex nut at distal end is required.
Q12	<i>Further to answer A20 of Question and Answers No.2, "Skyframe soil anchors/micropiles requiring a maximum factored design load of 150KN...", please confirm there are only a total 8 micropiles as identified on S6.02 and micropiles are not part of the Skyframe foundation design?</i>
A12	Confirmed.
Q13	<i>Concrete details on the Landscape drawings (L9.20) refer to a "Granular Base" and a "Compacted Subgrade" to the underside of concrete footings. Concrete details on the Structural drawings (S4.02) refer to "Compact to Dense Native Soil or Structural Fill Confirm with Geotechnical" to the underside of concrete footings. Please provide direction as to the thickness and width of this granular base/structural fill when required at the underside of concrete footings?</i>

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A13	Delete granular base and please refer to structural drawings for details at the underside of concrete footings. Landscape details will be revised to refer to structural.
Q14	<i>Which item from Schedule A - Tender Form applies to steel handrails at café concrete stairs (A212).</i>
A14	Please refer to Section 2.6, Site Furnishings Item 2.6.6 Handrails.
Q15	<i>There is no line item for structural steel and deck at café on Tender Form.</i>
A15	Please include this item under Section 4.0 Pedestrian Bridge.
Q16	<i>Please provide panel schedule for 347/500v Panel 6BM1.</i>
A16	Panel 6BM1 is only being utilized to sub-feed transformer 'TX-BP1' - see single-line diagram for breaker size. Panel 6BM1 is also for future provisions should the park require 347/600V equipment to be powered or if any mechanical equipment cannot be supplied at 208V as specified.