

**INVITATION TO TENDER "ITT" No. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION**

QUESTIONS AND ANSWERS NO. 6

ISSUED ON: MAY 2, 2019

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| Q1 | All the Finger Joint details shows 28 individual pieces that looks to be aligned to the existing steel girders (center to center). Is the contractor to follow this design or are they free to modify it to best fit? For example, modifying the pieces will not aligned the finger joints to be aligned with the girders at center to center and will have varying lengths, will this be acceptable? Please confirm. |
| A1 | Contractor shall bid on the design and specification contained in the ITT documents. |
| Q2 | As per Schedule 1 - GC page AGT23, item 3. Work Out-of-Sequence; For tendering purposes, please confirm if the contractor is to perform the field coating scope of work detail as per drawing 2125-370 (Steel Restoration) BEFORE or AFTER each concrete pour. This sequence of this work will have a big cost on the overall bid. |
| A2 | Means and methods of construction are the Contractor's responsibilities. The contractor is free to propose means and methods of construction provided that it achieves the requirements specified in the Contract documents. |
| Q3 | Ref Specification Section 01 54 01S Main Span Truss Bird Netting It states that components, anchorages and connections shall not damage, cut, drill or core through any part of the main structure. Are powder activated fasteners able to be used (Hilti-Clips)? If not, please advise what the preferred fasteners are. |
| A3 | The specification stands. Powder actuated fasteners cannot be used. The City does not have a preferred fastener but the design will need to be approved by the City prior to installation. |
| Q4 | Ref Specification Section 01 54 01S Main Span Truss Bird Netting The break strength on Bird Net 2000TM Heavy Duty Netting is 40 lbs. Our subcontractor suggested that Bird Net 2000 should not be used for a job of this scale and "Bird-b-gone Industrial ponding netting" which is with 120 lbs. break strength should be used. Please advise. |
| A4 | The specification stands. Netting is required to have 40 lbs burst/break strength per |

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| | twisted strand. |
| Q5 | Ref Drawing 2125-315 Stage 1 note 7 states core holes in concrete plinth for future demolition with nonexplosive demolition agent. Can City of Vancouver provide the number of core holes and their dimensions? |
| A5 | This was mistakenly copied over from the notes for Pier M6. No coring for non-explosive demolition is required for Pier M7. At Pier M6, the number of core holes and dimensions shall be determined by the Contractor to allow them to properly demolish the concrete plinth using non-explosive means. |
| Q6 | Ref Dwg 301 Can City of Vancouver provide a connection detail showing how D.S. Brown SSCM Steel Flex Rail connecting to Plate 1 and Plate 2? |
| A6 | <p>Please see below.</p> |
| Q7 | Ref Drawing 2125-305 & 311 Drawing 305 Elevation B shows that the contractor is required to sandblast and paint truss members. Is the contractor required to perform sand blasting and painting on Drawing 311 Elevation B? |
| A7 | Yes. All exterior faces of truss members and bracing to be encased in concrete to within min. 305 mm of concrete encasement, as written in Note 3 on Drawing 2125-305 and 2125-311. |
| Q8 | <p>Tab replacement</p> <p>Drawing 2125-318 shows a 356 x 205 x 9.5 plate and a L127 x 89 x 9.5 angle plate. Please verify if the L127 x 89 x 9.5 angle plates will need to be replaced? If so, please provide the lengths.</p> |

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| A8 | The L127 x 89 x 9.5 do not need to be replaced. |
| Q9 | Bird Netting It says, no cutting, drilling, coring into any part of the main structure. Are powder activated fasteners able to be used? (Hilti clips) If not do you have a preferred fastener? |
| A9 | The specification stands. Powder actuated fasteners cannot be used. The City does not have a preferred fastener but the design will need to be approved by the City prior to installation. |
| Q10 | What size opening in the netting is being requested? ¾ inch or 2 inch? Bird net 2000 comes in both sizes |
| A10 | The Specification stands. The mesh size shall be 2 inches or less and must meet the requirement that the netting shall not present and increase in the transverse wind loading surface area by more than 12%. |