

## QUESTIONS AND ANSWERS

- Q3. Will the Owner consider making a separate line item for supply of the SSP and allow for advance payment? Given the volatile steel market it would be beneficial to be able to secure SSP orders immediately after contract award.
- A3. A separate tender item will not be incorporated into the Tender Documents. The value of the piles may be included in progress claims as material on-site after the piles are delivered to the site.
- Q4. Can a 200-400mm Rip Rap or a 100-200mm Gabion be used in place of the 100-300mm stone? Some suppliers have stated they do not have a 100-300mm stone.
- A4. The gradation provided in Section 31 05 16 Part 2.1.7 will be amended to include a size range of 100 mm to 400 mm diameter stone, with a minimum range between maximum and minimum sizes of 200 mm. See Addendum 2.
- Q5. Is the 9000 Tonne of material for the new toe berm (Line item 23) expected to include the previously removed material from the existing berm, or is it mean to be in addition to it. If it is meant to include the existing material, can the Owner please provide an estimate of how much would be new material?
- A5. Answer will be provided in a later Solicitation Amendment.
- Q6. Given the current state of the pier, excavation of the existing toe berm may expose previously unknown issues with the pier and lead to complications in executing the work. Can you please confirm that the Owner would provide direction and change orders to cover the cost for any such issues that arise.
- A6. Answer will be provided in a later Solicitation Amendment.
- Q7. An existing rock fill berm is shown at the North-West end of the West pier on drawings S-03, detail 5 on S-07, S-09, and detail 19 on S-14. At the site visit it was identified that there was not actually an existing berm in this location and the intent was possibly to install a new rock berm here. If we are to install a rock berm at this location can you please confirm the cross section and the total quantities within the corresponding bid items.
- A7. Answer will be provided in a later Solicitation Amendment.
- Q8. Given the interim milestones for completing the West Pier, is it intended to remove access to the corresponding laydown area as soon as that portion is completed?
- A8. The west side layout area will be permitted until the completion of the West Pier in March 2020, with provision made for public access to the West Pier docks. An update to the extents of completion required in Spring 2019 has been reflected in Addendum 2.
- Q9. Will any of the private docks noted as being removed by others be reinstated prior to completion of the contract? A loading area for the barge work will need to be established and ideally will be in one location for the entire project.
- A9. Refer to Section 01 11 02, Part 1.16.1 which indicates the requirements for docks at the West Pier to be installed in May 2019. A loading area for the barge will need to be determined by the Contractor to suit the general project constraints. An update to the extents of completion required in Spring 2019 has been reflected in Addendum 2.

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- Q10. The Contractor's Secondary Laydown Area shown on S-02 appears to include the building for the St. Catharines Game and Fish Association. Can you please provide detail on the size and exact location of the laydown area available here, as well as any access restrictions?
- A10. The Secondary Laydown Area on S-02 is located on the east side of Lighthouse Road within the current gravel parking area. The approximate available space is 20 m x 60 m. See Addendum 2.
- Q11. Specification 31 05 16 clause 1.9 states "The Contractor shall employ divers during the duration of work to complete the work. The diver shall be on site for the installation of filter fabric placement of rock, cutting of timber piles, and verification of work." Will the diver(s) be expected to produce reports and/or video of the individual layers or just the final video of the completed armour stone called for in the specifications?
- A11. Refer to Section 31 05 16, Part 1.6.4. The divers will be required to submit a Letter of Conformance to certify that each layer within the rock berms (for each location of installation) was constructed in general conformance with the Contract Documents. The Contractor shall provide sufficient detail in the Schedule to permit detailed inspection by the Departmental Representative. See Addendum 2.
- Q12. Will there be an approval process between layers of materials for the berms? If so, what is the expected process and how much time should the contractor allow before being able to continue with placing the next layer?
- A12. The divers shall provide a Letter of Conformance to certify that each layer of the rock berms (and for each location of installation) was constructed in general conformance with the Contract Documents. The Contractor shall provide sufficient detail in the Schedule to permit detailed inspection by the Departmental Representative. See Addendum 2.

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Q13. Clarification on the following:  
Lump Sum Amount (LSA) is to include the following items?

1. Mobilization and Demobilization of Equipment and Crews
2. Removal of 5 Trees
3. Clearing and Grubbing
4. Removal of Concrete Sidewalks and Pathways
5. Remove, storage and replacement Rock Berm Sta. W2+315 to W2+575
6. Excavation of Tie Rods
7. Supply and Installation of Reinforcing Steel and Wire Mesh
8. Floating Silt Booms
9. Removal of Abandon Hydro Conduits and Junction Boxes East Pier Running to Lighthouse
10. Removal and Re-instatement of Bollards
11. Removal and Re-instatement of Life Ring Stations
12. Removal on Storing of Power Pedestals
13. Removal and Disposal of Electrical Cables
14. Removal on Storing of Mooring Cleats
15. Removal and Re-instatement of Ornamental Railings
16. Removal and Disposal of Surface Mounted Water Lines
17. Excavation, Stockpile and Reuse Topsoil
18. Excavation, Stockpile and Reuse Native Materials
19. Remove and Re-instate Signs
20. Remove Emergency Ladders
21. Remove and Dispose Timber Bump Boards
22. Remove and Dispose Electrical Manholes
23. Remove and Re-instate Light Standards and Junction Boxes
24. Remove and Re-instate Steel Posts
25. Remove and Re-instate Ornamental Fences
26. Remove and Disposal Fencing and Gates
27. Retain and Support Light Standards, Bell and Electrical Conduits
28. Restoration of Landscaped Areas
29. Restoration of Grassed Areas
30. Removal of Anchor Wall (Full Depth)
31. Removal and Disposal of Floating Dock / Boat Tie Points
32. Removal and Replacement of Retaining Wall at Legion
33. 1.80m High Temporary Fencing Site Fencing
34. Tree Protection
35. Provide Full protection Front Range Light House During Construction
36. Removal of Concrete Curbs in parking lot.

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- A13. If there is no separate tender item with a unit price to reflect the required work, the cost of work shall be incorporated into the Lump Price Tender Item. Refer to Section 01 11 02, Part 1.8 in particular and to the 'Measurement Procedures' section for each Section.
- Q14. How many Core Holes (Grouting of voids) are to be drilled identifies 60 in Specification?  
A14. The size range is from 500 mm to 600 mm diameter. See Addendum 2.
- Q15. Structural Demolition Page 1, drawings identify 82 at 3.0m spacing?  
A15. 82 cores are to be drilled. The specification is amended in Addendum #2.
- Q16. Can the wet cure for the concrete curing be eliminated during winter construction period?  
A16. Yes. From November to April cure to requirements of CSA A23.1./A23.2
- Q17. Can recycled concrete be used for Granular A as per MTO OPSS 1010muni spec?  
A17. No.
- Q18. Are there any in water working restrictions?  
A18. Yes. Refer to Answer 1 in Attachment 008.
- Q19. Can the existing rock berm material be lifted, placed and stored in the water in the same general area?  
A19. Yes, but the period shall not exceed 2 months
- Q20. Where is the 75mm conduit to be placed, do you have a typical design or layout?  
A21. New conduit to be placed in trench under new deck slabs. Buried conduits to be of sufficient depth, complete with 150 mm envelope of sand bedding and warning tape to ESA requirements. Provide stub-up conduits at 30 m intervals. Precise locations of conduits and stub-up locations will be determined by Departmental Representative after contract award and prior to construction.
- Q21. There is no electrical cable or wires to be included in the conduit item.  
A21. Correct.
- Q22. Can another site visit be arranged to confirm quantities.  
A22. No.
- Q23. Concrete Testing is by Contractor.  
A23. Specification Section 03 30 00 clause 3.9 is amended in Addendum #2. Concrete tests are to be paid by the contractor.

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- Q24. For the Bollard: Re-Instate Drawing S-24 what does "where feasible" mean.
- A24. There are eight bollards with concrete tops that are to remain undisturbed. These bollards are at the following locations:
1. South West Wharf W 4+155 on concrete deck
  2. South West Wharf W 4+133 on concrete deck
  3. South West Wharf W 4+075 on concrete deck
  4. South West Wharf W 4+040 in earth
  5. West Wharf W 2+850 in earth
  6. West Wharf W 2+825 in earth
  7. West Wharf W 2+800 in earth
  8. West Wharf W 2+790 in earth

There are 17 cast steel/iron bollards with a vertical bolt through the centre that are to be salvaged and reinstated. They are to be reinstated at the same location with a bolt embedded 200 mm into the new concrete. The bolt diameter is to match existing and shall be to SAE J429 grade 5 or equivalent. The locations are as follows:

1. West Wharf W 2+760
  2. West Wharf W 2+750
  3. West Wharf W 2+700
  4. West Wharf W 2+690
  5. West Wharf W 2+680
  6. West Wharf W 2+630
  7. West Wharf W 2+620
  8. West Wharf W2+330
  9. West Wharf W2+315
  10. West Wharf W2+305
  11. West Wharf W2+290
  12. East Wharf E1+450
  13. East Wharf E1+440
  14. East Wharf E1+430
  15. East Wharf E1+415
  16. East Wharf E1+400
  17. East Wharf E1+390
- Q25. For the item "Stone for Under Layer (200-300kg)" is there a particular sizing of stone that you require? Our suppliers are unable to quote us based on the weight of the stone.
- A25. The size range is from 500 mm to 600 mm diameter. See Addendum 2.