

**Question 1:** Section M on drawing S003 states the waterstop is retrofit type C. However, the connection details in Detail 4 on Drawing S003 states the waterstop is retrofit type D. Please confirm if the waterstop is type C or type D? If this waterstop is required to be type D, please provide detail for type D waterstop.

**Answer 1:** Detail 4 on Dwg S003 should state Type 'C' waterstop. Drafting Error.

**Question 2:** Detail K and detail E on drawing S005 state "Sluiceway Structure (Existing)". However, on the demolition plan, all components are to be demolished. Should these two details be "Sluiceway Structure (New)"?

**Answer 2:** The caption text "(Existing)" should have been deleted. Drafting Error.

**Question 3:** Can the layout details for retrofit waterstop required at existing cut off and North Bulkhead interface be provided?

**Answer 3:** Refer to Detail 2 on Dwg S003 to see locations for the vertical retrofit waterstops at the new-to-existing interface. The retrofit waterstops run continuously full height; down to bedrock at the bottom and terminate 1000 mm from the top of the walkway deck elevation, similar to that shown on the other vertical CJ/CTJ waterstops on Sections K and R on Dwg S003. Horizontal Type A waterstops in the North Bulkhead lift joints will butt against the web of the vertical Retrofit waterstop. Additional details can be added to the IFC drawings for more exact geometry and details of the waterstop routing near this interface.

**Question 4:** Is Appendix 5 item 2.1 Experience of the Bidder additional information for the three (3) projects provided in item 1.1 Marine Construction Work Experience or is the Bidder to provide additional information for three projects other than those listed in item 1.1 Experience of the Bidder?

**Answer 4:** The same three (3) projects are provided in 1.1 and 2.1

**Question 5:** (New Permanent Fence) On drawing L001, drawing is calling for a "New permanent fence, see engineering drawings for fence detail (typ)". No detail for the fence seems to exist in the tender document. Please provide detail of the fence required on this particular drawing.

**Answer 5:** Use standard details as per OPSD 972.102 Fence, Chain-Link, Component – Gate and OPSD 972.130 Fence, Chain-Link, Installation - Roadway

**Question 6:** (Measurement and Payment: Item 9 Miscellaneous Metal Work) In specification SECTION 10 22 01, item 1.4.10, payment for item 9 include the following work:

- .1 Gain Liner
- .2 Sill Beams;
- .3 Railing;
- .4 Gain Covers;
- .5 Water gauge monitoring well;
- .6 Winch Trolleys Rail Assembly; and
- .7 Stop log slide rails.

In reference to UNIT PRICE TABLE, of the APPENDIX 1-COMBINED PRICE FORM, item #9 is calling for a quantity of 8 each. Please confirm what or which work as to be included in this item to provide the eighth item.

**Answer 6:** Unit Price Table contains Estimated Quantities.

**Question 7:** Measurement and Payment: Item 10 Timber. In specification SECTION 10 22 01, item 1.4.11, payment for item 10 include the following work:

... stop log and other wood components on dam.

In reference to drawing S001, 2 flash board are to be supplied. In reference to drawing S002, 22 stop logs are to be supplied. In reference to UNIT PRICE TABLE, of the APPENDIX 1-COMBINED PRICE FORM, item #10 is calling for a quantity of 26 each. Please confirm what or which work as to be included in this item to provide the 25th and 26th item.

**Answer 7:** Unit Price Table contains Estimated Quantities.

**Question 8:** Measurement and Payment (Item 6 Concrete Work) In reference to drawing S014, please confirm that concrete for Tie-In Wall Repairs is paid and included in unit price for item #6 Concrete Work.

**Answer 8:** Confirmed. Included in the concrete work.

**Question 9:** Form Ties. In reference to specification SECTION 03 10 00, item 2.1.1.5.1: Form ties will not be allowed on surface exposed to view, those being the downstream surfaces above the minimum water levels both upstream and downstream. Please clarify.

Please provide a drawing representing the surfaces where TIES are prohibited to avoid miss understanding of this requirement.

**Answer 9:** Form ties are allowed throughout the structure. Specification will be revised accordingly.

**Question 10:** (Grout Curtain) In reference to specification SECTION 31 32 23, item 3.1.19.3: (...) Initial primary holes shall be spaced as shown on the Drawings. Subsequent secondary holes and tertiary holes shall be located midway between primary and secondary holes respectively. Further sequences of holes (quaternary) may be considered, depending on the bed rock conditions and grout takes of the adjacent holes.

In reference to drawing C012, in the plan view, tertiary grout holes are shown as optional as required. Please clarify if Contractor should carry price for tertiary holes or they will be optional as directed by the Representative.

**Answer 10:** Refer to Measurement and Payment Specification Section 01 22 01; 1.4.20 Pay Item 19. Foundation Grouting includes drilling

**Question 11:** (Exploratory Core Drilling) In reference to specification 31 32 23, Item 3.1.22 EXPLORATORY HOLE DRILLING. No quantity, no method of payment, no position, no depth are provide for this scope of work.

This work is considered as "Guess work"

Without more information, work for exploratory holes will be consider as a change order and no cost will be included in our bid.

**Answer 11:** Refer to Measurement and Payment Specification Section 01 22 01; 1.4.20 Pay Item 19. Foundation Grouting includes drilling

**Question 12:** (Bedrock Foundation Treatment) In reference to specification 31 60 00 and in reference to drawing C012, work for bedrock foundation treatment is show. Perhaps, no quantity or method of payment is provided.

This work is considered as “Guess work”. Please provide payment item and quantities to include in our scope of work.

**Answer 12:** Please refer to the Basis of Payment; Lump Sum Table. “Work included in the Lump Sum amount represents all work not included in the Unit Price Table

**Question 13:** (Boom Anchor) In reference to specification 31 62 16.19 FILLED TUBULAR STEEL PIPE, item 3.4.2: Tremie method for concrete placement is not allowed. In reference to drawing C008: Detail Boom Anchor: filled with concrete in the dry. In reference to drawing C006: Position of the boom anchor is 26 metre toward upstream of dam. In reference to drawing C005 and C004, Position of cofferdam is limited to 20 metre towards upstream of the dam. Please revise specs to allowed tremie pour for the boom anchors.

**Answer 13:** The boom anchor is to be filled with concrete with the caisson pumped dry.

**Question 14:** (Water Intake Lines) In reference to drawing C001, 4 water intake lines are shown and required to be remove.

In reference to specification 35 20 22, item 1.10.7: Where construction activities impact residential well water supplies, or residential water intake supplies, revise construction methodology to protect these water supplies. Alternatively, provide and maintain another supply source to the satisfaction of the Departmental Representative.

Consideration water lines have to be removed, please describe scope of work “to satisfy the Departmental Representative”. Contractor is responsible for temporary sourcing during work? Is contractor is responsible for rebuilding a new water intake? What is the depth, diameter and design for water intake for residential?

**Answer 14:** Specification 35 20 22 item 1.10.7 does not apply to the water intake lines to be removed in Drawing C001.

**Question 15:** (Stack stone Wall) In reference to specification 35 20 22, item 1.10.3: The arrangement of the stones must be numbered in layout plan, identifying the exact location of each stone relative to others. The stone must be stored in a location which protects their condition such that they can be placed back in the same arrangement.

In order that part of the stone stacked wall as to be debuilt and rebuilt with diver’s, achievement of such task seems to be impossible to be done at the intersection of the cofferdam.

**Answer 15:** Bidder to develop an appropriate methodology to accomplish this task.

**Question 16:** (Total Score) In reference to APPENDIX 5 – Evaluation Criteria and Selection Methodology, at page 25 of 28; The TOTAL SCORE formula is wrong. If we perform the math, the price score count for 0.4 point for the lowest bidder and Technical score will be worth a possibility of 60 point. Our understanding is that the Price Score calculation should be:  $X \times 100$ . Please confirm or correct formula.

**Answer 16:** Agreed. The Price Score is to be multiplied by 100.

**Question 17:** (Curtain Grout, Method of Payment) Usually, method of payment for curtain wall is paid by linear meter of grouting holes and a second item for grout by cubic meter. Please provide a unit price for linear meter drilling.

**Answer 17:** Refer to Measurement and Payment Specification Section 01 22 01; 1.4.20 Pay Item 19. Foundation Grouting includes drilling

**Question 18:** (Winter Water Level) Is water level lowered during winter seasons (upstream and downstream)?

**Answer 18:** Yes; however, the extent and timing of drawdown varies seasonally depending on weather conditions.

**Question 19:** (Stack stone Wall Restoration) On drawing C011, drawing is calling for: Restore slope and remove and reinstall stacks stone (Typical per section A (C012)). The line is showing restoration area from Upstream Face of dam to Upstream face of concrete retaining wall of the lock 38.

In specification SECTION 35 20 22, item 1.10.3, specs are calling: The stacked stone wall upstream of the dam must be removed by hand in order to install the upstream cofferdam and to repair the stacked stone slumped area as shown on the drawings.

IN CONTRADICTION WITH:

In specification SECTION 02 41 16, item 1.1.6, specs are calling: Stacked stone wall on north embankment upstream of the dam is to be salvaged and replaced as is (...) as necessary for the construction of the upstream cofferdam and other construction works.

Please confirm if all the stack stone wall as to be remove and reinstall (from dam to concrete retaining wall) or only portion of the stack stone wall should be restored (depending on methods of General Contractor).

**Answer 19:** Stack stone wall restoration includes the cofferdam footprint area and the slump area as observed during the mandatory site visit. Bidder to develop an appropriate methodology to accomplish this task.

**Question 20:** Is additional cofferdam phasing required to install stack stones upstream of the upstream cofferdam?

**Answer 20:** Bidder to develop an appropriate methodology to accomplish this task.

**Question 21:** Does the quantity provided under item 17 refer to the levelling concrete under the base slab?

**Answer 21:** This is an estimated quantity to account for irregularities in bedrock.

**Question 22:** Can information be given on where the 270m of Cofferdam originated? A quantity of much less when measured off the drawing.

**Answer 22:** The quantity provided was based from centre-to-centre measurements including but not limited to the intermediate or bulkhead sections, shoring and trestle sections.

**Question 23:** In the safety boom specification, it references "Ensure the warning message facing upstream for the upstream boom, and facing downstream for the downstream boom.", but on drawing C007 there is no downstream safety boom shown. Is there supposed to be two separate safety booms; 1 upstream and 1 downstream?

**Answer 23:** No downstream boom. Specification will be revised

**Question 24:** Can the document name and number be provided that states the warranty period for this project?

**Answer 24:** Please refer to GC 3.13.