

## QUESTIONS AND ANSWERS:

Q: Is rebar present in the coping or the walls of the lock?

A: PWGSC is not aware of the presence of reinforcing bars in the coping or walls of the lock.

Q: Please confirm that a form liner is to be used on the formwork for this project. Does this form liner have a pattern or is it smooth?

A: A formwork liner conforming to the specifications shall be used on all formwork for this project. The specified liner is smooth.

Q: Are all type B and C anchors including the thread bar to be stainless?

A: No, type B and C anchors are not stainless steel.

Q: Are there load restrictions on the entrance road into the site?

A: There are no load restrictions for the entrance road into the site other than half load restrictions from March 1st to April 30th.

Q: Please provide the weight and dimensions of the stop logs.

A: Stop logs are 13.5" (34.3cm) wide x 31.375" (79.7cm) high x 35' (10.7m) long. Their weight is approximately 6,475lbs (2,937 Kg) dry and up to 8,000lbs (3,629 Kg) wet. Please see attached drawing for further details.

Q: Please provide the in situ concrete test results for the walls of the coping.

A: Please see the attached PDF file (Concrete Test Results Lock 15.pdf).

Q: Is there sediment present on the floor of the lock that will have to be removed to facilitate the work? If so, please indicate the depth of this sediment.

A: We do not anticipate the presence of any sediment on the floor of the lock after dewatering.

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Q: With reference to Tender Item – 1, Close Drilling; please advise diameter and spacing of hole drilling.

A: Where close drilling is called for on the drawings, drilled holes shall have a minimum diameter of 50mm at a maximum spacing of 250mm for the full depth of the concrete to be removed. The Contractor is allowed to adjust holes diameter and spacing to achieve a maximum efficiency of concrete excavation when using line drilling.

Q: Who is responsible for the field sampling and testing of concrete on site?

A: Refer to Section 03 30 00 paragraph 3.8. The contract for the field sampling and testing of concrete will be between the Government of Canada and a 3rd party service provider.

Q: It looks like there are two Project Numbers referenced in the contract: R.063528.301 and R.063528.001. Please confirm which is correct.

A: Project number is R.063528.301. References to R.063528.001 are also correct. This is a number that is used internally within the Government.

Q: How long is the warranty period on this job?

A: GC3.13 (2008-05-12) Warranty and Rectification of Defects in Work

1. Without restricting any warranty or guarantee implied or imposed by law or contained in the Contract, the Contractor shall, at the Contractor's expense

a. rectify and make good any defect or fault that appears in the Work or comes to the attention of Canada with respect to those parts of the Work accepted in connection with the Certificate of Substantial Performance within 12 months from the date of Substantial Performance; and

b. rectify and make good any defect or fault that appears in or comes to the attention of Canada in connection with those parts of the Work described in the Certificate of Substantial Performance within 12 months from the date of the Certificate of Completion.

c. transfer and assign, to Canada, any subcontractor, manufacturer or supplier extended warranties or guarantees implied or imposed by law or contained in the Contract covering periods beyond the 12 months stipulated above. Extended warranties or guarantees referred to herein shall not extend the 12-month period whereby the Contractor, except as may be provided elsewhere in the Contract, must rectify and make good any defect or fault that appears in the Work or comes to the attention of Canada.

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d. provide, to Canada prior to the issuance of the Certificate of Completion, a list of all extended warranties and guarantees referred to in paragraph (c) above.

2. Canada may direct the Contractor to rectify and make good any defect or fault referred to in paragraph 1) of GC3.13 or covered by any other expressed or implied warranty or guarantee and the Contractor shall rectify and make good such defect within the time stipulated in the direction.

3. A direction referred to in paragraph 2) GC3.13 shall be in writing and shall be given to the Contractor in accordance with GC2.3, "Notices".

Q: What is the spacing of the Close Drilling and Diameter of hole required. Nothing is shown on the drawings or specified under section 02 41 23.

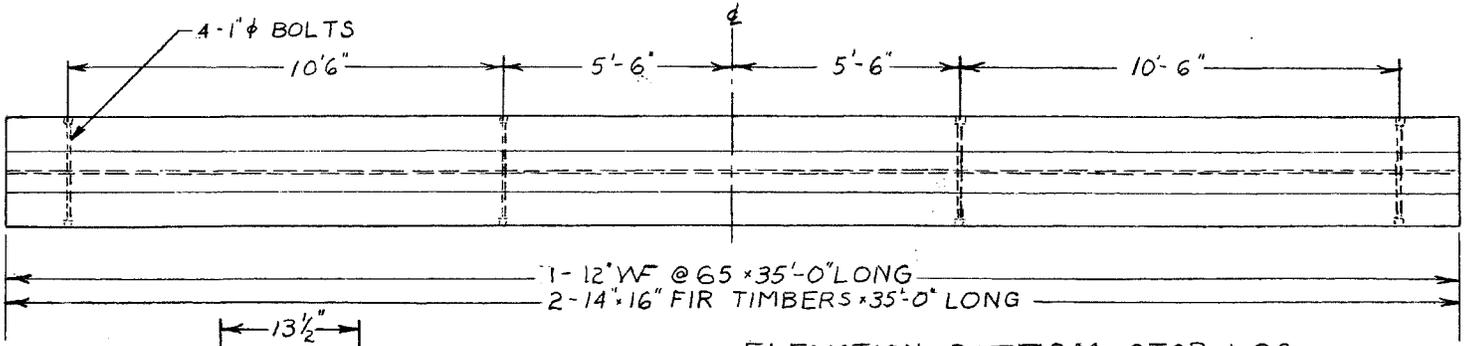
A: Previously answered.

Q: Unit Price Table Item 1 Close Drilling currently shows payment as a Square Meter payment item. Should this not be paid by the Lineal Meter?

A: The unit for close drilling is correct.

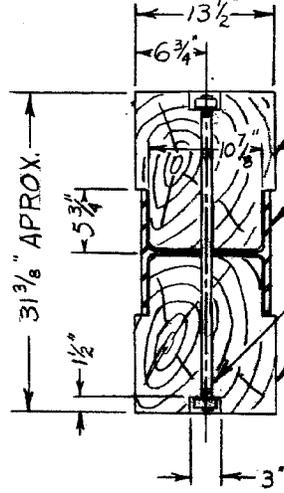
Q: Please provide the details and dimensions for the 2 new smaller cover plates located at the east end on the lock coping. Details have only been provided for the 4 frame and covers for the valve shafts and 2 cover plates for the new hydraulic trenches at the west end.

A: New plates shall match existing steel plates which are replaced. Approx. size is 1625 mm x 1100 mm.



1- 12" WF @ 65 x 35'-0" LONG  
 2- 14" x 16" FIR TIMBERS x 35'-0" LONG

ELEVATION, BOTTOM STOP LOG  
 SCALE 1" = 3'-0"



X- SEC AT BOLT  
 SCALE 1" = 1'-0"

14" x 16" x 35'-0" FIR  
 12" WF @ 65 x 35'-0"  
 4- 1"  $\phi$  RODS - 30 7/8" LONG THREADED,  
 EACH END & FITTED WITH 2- 1/16"  $\phi$   
 FLAT WASHERS & 2- 1" NUTS  
 14" x 16" x 35'-0" FIR

NOTE: DRILL 1 1/16"  $\phi$  HOLE  
 FOR BOLTS WHEN  
 TIMBERS & BEAMS ARE  
 CLAMPED TOGETHER

WEIGHT OF BEAM 2275 LB  
 WEIGHT OF TIMBER 4150 LB.

DEPARTMENT OF TRANSPORT  
 MARINE WORKS  
 CANALS DIVISION  
 TRENT CANAL SYSTEM  
 BOTTOM STOPLOG LOCK 18  
 & LOCK 11/12 HEAD 10'  
 SCALE AS SHOWN DATE NOV 6/62  
 DESIGN *slt*  
 DRAWN *slt*  
 CHECKED *h. stuy*  
 SUPERINTENDING ENG. T/C 3200 A

T-20-193.10

**TABLE 1: Summary of Compressive Strength Test Results - Concrete – Lock 15.**

Sample ID	Lock-Borehole ID	Unit Weight (kg/m <sup>3</sup> )	UCS (MPa)	Remarks
<b>West Wall</b>				
UCS 1	L15-W10	2416	26.1	Hundred (100) mm diameter concrete core.
UCS 2	L15-W9	2374	23.5	Hundred (100) mm diameter concrete core.
UCS 3	L15-W8	2435	19.0	Hundred (100) mm diameter concrete core.
UCS 4	L15-W7	2404	22.4	Hundred (100) mm diameter concrete core.
UCS 5	L15-W6	2424	15.8	Hundred (100) mm diameter concrete core.
UCS 6	L15-W5	2299	21.9	Seventy five (75) mm diameter concrete core.
UCS 7	L15-W3	2315	54.6	Seventy five (75) mm diameter shortcrete core.
UCS 8	L15-W1	2271	24.8	Hundred (100) mm diameter repaired concrete core.
<b>AVG Concrete</b>		<b>2375</b>	<b>21.9</b>	
<b>MIN Concrete</b>		<b>2271</b>	<b>15.8</b>	
<b>MAX Concrete</b>		<b>2435</b>	<b>26.1</b>	
<b>East Wall</b>				
UCS 9	L15-E9	2275	24.2	Hundred (100) mm diameter concrete core.
UCS 10	L15-E8	2325	24.8	Hundred (100) mm diameter concrete core.
UCS 11	L15-E8	2275	21.7	Hundred (100) mm diameter concrete core.
UCS 12	L15-E7	2355	20.6	Hundred (100) mm diameter concrete core.
UCS 13	L15-E3	2351	20.4	Seventy five (75) mm diameter concrete core.
UCS 14	L15-E2	2274	20.2	Seventy five (75) mm diameter concrete core.
<b>AVG Concrete</b>		<b>2309</b>	<b>22.0</b>	
<b>MIN Concrete</b>		<b>2274</b>	<b>20.2</b>	
<b>MAX Concrete</b>		<b>2355</b>	<b>24.8</b>	

**MANDATORY SITE VISIT DATE: SEPTEMBER 12, 2013 TIME: 1:00 P.M. (1300 Hours)**  
**FILE NO: 7345-OR-EQ754.141004**  
**CONTRACTING OFFICER: SHEILA DHANNA 416-512-5855**  
**PROJECT MANAGER: ATIF SUHAIL 613-736-2886**  
**TENDER CLOSING DATE: SEPTEMBER 24, 2013**  
**SOLICITATION NO: EQ754-141004/A PROJECT NO: R.063528.001**  
**PROJECT DESCRIPTION/LOCATION: CAMPBELLFORD, ONTARIO. TRENT SEVERN-WATERWAY. HEALEY FALLS LOCK 15. CONCRETE REFACING.**

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ATTENDANCE

COMPANY NAME

PHONE#

R.W. TOMLINSON	613 913 0482	
L.W. BRAY CONSTR. LTD.	613 277 2496	
BOB HENDRICKSEN CONSTRUCTION LTD.	905 985 34	
AECON	416 297 2600	
TORONTO ZENITH	905 738 1500	
HORSESJOE HILL CON. INC.	647 504 2448	
SMD CONSTRUCTION LTD.	905 686 2721	
DALCON ENTERPRISES	613 822 3300	
PEAK ENGINEERING	905 355 1500	
JEFFREY G. WALLANS	613 475 3682	
FAICCA INC.	519 975 0377	
GREYLEITH LIMITED	613 253 3771	

