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**V6Z 0B9**  
**Bid Fax: (604) 775-9381**

## **SOLICITATION AMENDMENT**

## **MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

### **Comments - Commentaires**

**Vendor/Firm Name and Address**  
**Raison sociale et adresse du**  
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**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada -  
Pacific Region  
800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver  
British C  
V6Z 0B9

<b>Title - Sujet</b> Concrete Wharf Repairs	
<b>Solicitation No. - N° de l'invitation</b> F1700-150940/A	<b>Amendment No. - N° modif.</b> 003
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2016-02-12
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-019-7728	
<b>File No. - N° de dossier</b> PWY-5-38353 (019)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2016-02-18</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Standard Time PST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Ngan, Ken (PWY)	<b>Buyer Id - Id de l'acheteur</b> pwy019
<b>Telephone No. - N° de téléphone</b> (604) 658-2755 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DFO - Institute of Ocean Sciences Wharf - Patricia Bay, BC	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
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<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation No. - N° de l'invitation  
F1700-150940/A  
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.  
003  
File No. - N° du dossier  
pwy-5-38353

Buyer ID - Id de l'acheteur  
pwy019  
CCC No./N° CCC - FMS No/ N° VME

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This Solicitation Amendment 003 is raised to incorporate Addendum #2, and to incorporate a revised Unit Price Table.

All other terms and conditions remain unchanged.

## GENERAL

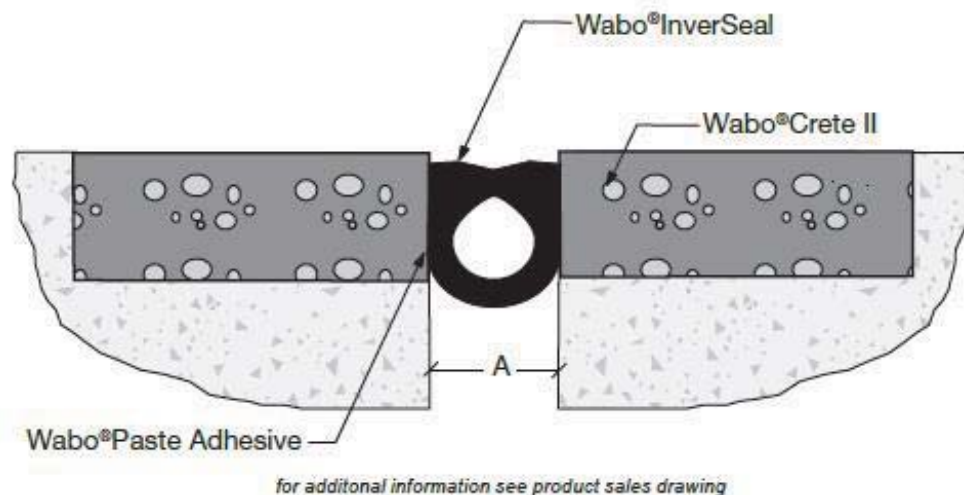
The following changes / clarifications in the tender documents are effective immediately. This Addendum will form part of the Contract Documents.

## SPECIFICATIONS

### 1. Section – 01 11 05 – Marine General Instructions

#### **Add Part 1.6.2.4.5:**

*Expansion joints shall be refurbished to match existing refurbished expansion joints. It shall include a rubber expansion joint seal set into a flexible polymer mortar. Allow for sawcutting and preparing the edge of the concrete deck as shown in the sketch below. Quantity per Unit rate table, Pay Item #6 (attached). Bid value to reflect use of Wabocrete Flexfoam Model No IV 250.*



## CLARIFICATIONS

### Questions Received by PWGSC to February 10, 2016

1. *In Addendum #1, there is a question (#4) regarding environmental monitoring, whether it is to be provided. The answer was “yes”, on the reply. Then it went on to say... ‘The environmental monitoring will be done by PWGSC’. Does this mean both the contractor and Public Works will do environmental monitoring, or just Public Works (PWGSC)? Please clarify in response.*

**The Contractor is not required to provide a dedicated Environmental Monitor. This service will be provided by PWGSC.**

2. *In drawing 0227-011...there is a vertical and a horizontal section shown for “Concrete Repair Detail” on the left hand, lower side of the sheet (with zinc anodes). We observed areas where concrete repair was necessary on the horizontal surfaces, but few on the vertical. Are there significant vertical repair areas and where are these locations, or mainly horizontal repair areas? (the drawing is somewhat confusing)*

**The drawings show the repair locations for horizontal surface repairs, soffit repairs and side repairs. We have added separate unit rate item for the soffit repairs and the side repairs to the unit rate table (see attached).**

3. *At the site meeting there was mention of an epoxy based material, kind of rubbery, flexible asphaltic or concrete which may possibly be used to fill the repaired areas. What is the technical name and supplier of this product?*

**The patching material for the concrete repair areas shall be a cast in place Portland cement concrete as specified in Section 03 01 31, Part 2.1 - "Concrete repair".**

**See Addendum #2, Specifications Item #1 for further clarifications.**

4. *Can the extensive, pervasive cracking observed in the light brown-coloured concrete joint areas be essentially removed to a depth of say, 10 or 15 mm or deeper everywhere, then replaced with a new flexible cover or membrane?*

**Contractors to bid in accordance with specified joint repair methodology. Alternate repair methods may be considered following project award.**

5. *In discussions with our cathodic protection engineering company, it seems like the 10 week window for the cathodic protection design may be tight... a) how formal does the cathodic protection design need to be? b) How much can we streamline the approval process of submissions during the design process?*

**a) Excessively formal design submissions are not anticipated. See Section 26 42 20, Part 1.1 – Cathodic Protection Passive for items to be protected. See attached Unit Rate Table for anodes and test station quantities.**

**b) A streamlined approval process is anticipated so as to meet project timelines.**

6. *Unit price table #6 expansion joint repairs, which detail refers to this and also there is reference to repair of recessed expansion joint and depressed expansion joints on the drawings, which details refer to these types of repair.*

**See Addendum #2, Specifications Item #1 for further clarifications.**

7. *Unit price table #8 and #9 cleat refurbishment refers to re-painting of the pile cap, is there a detail for this?*

**There is no detail for this work. This refers to re-painting of the surface below where the cleat is attached. See image below for clarification and Unit Rate Table for quantities. Additional photos attached.**



8. *Both unit price items #8 and #9 indicate refinishing but i can see no specification or details.*

**Refurbishment of the cleats listed in unit rate table items #8 and #9 includes the following:**

- 1. Removal from site.**
- 2. Sandblasting to remove rust scale.**
- 3. Painting with a 2 coat epoxy paint – Colour is Coast Guard Red.**
- 4. Reinstallation with new galvanized nuts.**

9. *In regards to unit price items #10 and #11 bull rail painting red and yellow i see no specification for surface preparation or materials specified.*

**Bull rail is to be prepared by grinding to remove existing paint.**

**New paint to meet the requirements of CAN/CGSB-1.74 Alkyd Traffic Paint.**

10. *In regards to div #9 section 09 96 00 high performance coating, am i to assume this does not apply to this tender i.e coating of concrete wharf surface or traffic line painting.*

**There is no Membrane coating to be installed at this time.**

**Traffic line painting is required to match existing. Paint to meet CAN/CGSB-1.74 Alkyd Traffic Paint.**

**Existing paint to be removed.**

11. *Cathodic protection-passive under 1.5 performance requirements asks for a service life extension of 20 years is this realistic?*

**A 20 year service life extension for the design of anodes is understood to be standard.**

12. *Drawings 0227-009 refers to concrete soffit delamination repair with no number of repair locations or size. also on this drawing it refers to concrete soffit spalling near piles with no number of repair locations or size. also drawing 0227-010 refers to concrete soffit delamination with no number of repair locations or size.*

**See attached Unit Rate Table for additional information.**

13. *Drawing 0227-007 refers to repair minor cracking and repair exposed rebar, is there any details for these repairs.*

**See Notes on DWG 0227-006 for minor cracking and rebar repair requirements.**

**Contractor to assume that these areas will be chipped out and patched. Costs to be included in Item 15 of the attached Unit Rate Table.**

14. *Flexible sealant for filling the 10mm X 10mm saw cut or formed joints in Type 1 and Type 2 repairs is not specified.*

**The sealant shall be a flexible single component polyurethane such as Sikaflex 1a colour grey or equivalent.**

15. *Specification 01 11 05: Marine General Instructions: Item 1.6 Work Covered by Contract Documents: 1.6.2.4 Expansion Joint Repairs - transverse expansion joints a) There is no pay item for this work. b) Specification states that joint to be cleaned of existing concrete or grout, install foam backing rod and refill with new concrete material. These joints do not have grout, but rather use a rolled-in neoprene rubber expansion joint seal. Please clarify what is required and the length to be repaired.*

**a) Cost to be included in Pay Item #6.**

**b) See Addendum #2, Specifications Item #1 for further clarifications.**

16. *Painting of supporting pile caps - please clarify extent of this. Do you mean the flat surface that the cleat is attached to, or the whole pile cap that runs under the dock from one side to the other.*

**See response to Question #7.**

17. *Bull Rail Painting - refers to concrete and wood. Please confirm that there is no wood to be painted.*

**Only concrete painting is required for this item.**

18. *Regarding 09 96 00 High Performance Coatings: 1.2 Scope - Traffic line painting is specified in this section - Please clarify if this to be done.*

**Traffic line painting is to be completed to match existing. Paint is to meet requirements of CAN/CGSB-1.74 Alkyd Traffic Paint. See attached for additional information on areas requiring painting.**

19. *Regarding 09 96 00 High Performance Coatings: 3.1.5 Surface Preparation - Specification calls for surface preparation by shotblasting using steel shot. Are other methods of surface preparation acceptable?*

**It is not expected that steel shot blasting will be required. Other methods are acceptable.**

20. *Regarding Drawings 227-007, 227-008, 227-009: The following items are shown on these drawings, and are not covered in the specifications or unit rates. Please confirm if these are to be included:*

- a) *Repair concrete soffit delamination - if this is to be included please provide an indication of the extent of the delamination to determine the repair methodology.*

**See attached Unit Rate Table for additional information.**

**Repair shall include chipping to remove all delaminated concrete, chipping around exposed rebar, square cutting edges and patching with a repair mortar.**

- b) *Repair recessed expansion joint - provide details - i.e. does the rubber joint filler material have to be removed and replaced with new or is it to be reused? Edge and corner spalling is evident along many of these joints - what is the intention for the repair of these?*

**See attached Unit Rate Table for additional information.**

**Edge and corner spalling is to be repaired by square cutting the damaged areas and patching with repair mortar**

- c) *Remove and refurbish all cleats. Re-paint all pile caps. What is the extent of the painting of the pile caps? Do you mean the flat surface that the cleat is attached to, or the whole pile cap that runs under the dock from one side to the other?*

**See responses to Questions #7 and #8.**

- d) *Repair exposed re-bar - where is this to be priced.*

**See attached Unit Rate Table for additional information.**

21. *Regarding Drawings 227-011 Joint Repair Details: a) Type 2 – drawing shows 10mmx10mm formed gap for sealant, whereas the notes refer to a 20mm x 20mm gap – which is it?*

**The joint profile is 20 mm x 20 mm.**

22. *I understand based on the specifications that a passive cathodic system is required on various steel structures at the intertidal area based on the written specifications. Do you in fact require anodes to be placed below the intertidal area by divers for this project?*

**Yes. It is expected divers will be required for this work.**

Item	Description	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(s) extra (PU)	Extended amount (EQ x PU) applicable tax(s) extra
1	Mobilization and Demobilization	Lump Sum	1		
2	Top Surface Repairs	Square Meters	20		
3	Sacrificial Zinc Anodes	each	40		
4	Longitudinal & Traverse Joint Repair TYPE 1	m	1200		
5	Longitudinal & Traverse Joint Repair TYPE 2	m	464		
6	Expansion Joint Repairs - transverse expansion joints	m	52		
7	Steel Plate Joint Repairs	m	112		
8	Liverpool Cleat Refurbishment	each	34		
9	100LB Cleat Refurbishment	each	22		
10	10 Painting (yellow, top and front)	m	785		
11	Painting (red, bumper side)	m	785		
12	Bulk Anode Supply - Anodes	each	150		
13	Bulk Anode Installation – Test Stations	each	5		
14	Wharf Soffit Repairs (11 Locations)	Square Meters	3		
15	Wharf Side Repairs (15 locations)	Square Meters	3		
16	20 M Rebar Replacement	Meters	5		
17	25 M Rebar Replacement	Meters	5		

<b>TOTAL BID AMOUNT</b> Excluding applicable tax(s)	
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Typical Painting around Cleat. (Yellow)



Typical Painting around Kiosk. (Yellow)



Typical Painting along outside of Bull Rail. (Red)



Typical Painting along surface and interior of Bull Rail. (Yellow)





Typical Painting around Cleat. (Yellow)



Typical Painting around Kiosk. (Yellow)



Typical Painting along outside of Bull Rail. (Red)



Typical Painting along surface and interior of Bull Rail. (Yellow)