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## 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

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<b>Title - Sujet</b> Seawater System and Pumphouse Const	
<b>Solicitation No. - N° de l'invitation</b> EB144-190610/A	<b>Amendment No. - N° modif.</b> 004
<b>Client Reference No. - N° de référence du client</b> EB144-19-0610	<b>Date</b> 2018-08-03
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWA-104-5757	
<b>File No. - N° de dossier</b> PWA-8-80026 (104)	<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 2018-08-09</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT
<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> Nowakowski, Leanne	<b>Buyer Id - Id de l'acheteur</b> pwa104
<b>Telephone No. - N° de téléphone</b> (902) 403-7112 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

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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>

Amendment 004 is being issued to provide further questions and answers, as well as additional sketches, drawings and information that should form part of the submission.

La modification 004 vise à fournir plus de questions et réponses, ainsi que d'autres esquisses, les dessins et les renseignements qui devraient faire partie de la présentation.

### **Questions and Answers:**

**10)** What division supplies the utility pull boxes?

- a.** Pull boxes indicated on drawing 12-E-102 shall be provided and installed by division 33.

**11)** Drawing 12-E-101 shows 300 mcm for building feeder - is this copper or NUAL?

- a.** All conductors and feeders are copper as per section 26 05 21 – Wire and Cables (0-1000V).

**12)** The requirements for the communication division "Requires RCDD " considering there are only 4 drops and with all the testing requirements that will be submitted would it be possible to delete this requirement?

- a.** The requirement for the contractor to have a RCDD on staff shall be waived.

**13)** Section 07 16 16 Crystalline Waterproofing, Page 4 , Paragraph 3.1.6 Freshly Poured Slabs. 1 Dry Sprinkle waterproofing to freshly poured slabs-on-grade at a rate of 1kg/sq.m and power trowel.

The intent of this section is to provide waterproofing to the floors of the various pits on this project. It will be virtually impossible to place a power trowel in these pits to provide adequate distribution to provide appropriate waterproofing. Application of the floors should be the same product/application as the walls as noted in Paragraph 3.1.6.

- a.** Reference Section 03 30 00 – Cast-in-Place Concrete: add the following:

“2.2 CONCRETE MIXES

.4 Crystalline waterproofing admixture to manufacturer's recommendations.”

Reference Drawing 12-S-100:

.1 Contractor to make changes to contract documents in accordance with the **attached sketch 12-S-SK001.**

**14)** I am inquiring on the detail Drawings 3-M100, 5-M100, 6-M100. The 3C#10 Cathodic protection wire running from the Seawater Suction/Discharge Strainers have no detail on where the wire is to be contained or attached coming back to the control panels in the Seawater Pump house. Please advise on how this is to be done.

- a. Cathodic Protection system wiring is to be strapped to the seawater piping using 316SS straps at 1500mm centres. Wiring can be secured, at every second support, to the Seawater Piping Concrete Anchors if preferred by the contractor

**15)** The materials shown on drawing CSK-01 for the shoreline protection do not match the materials specified in Section 35 31 24 for the Rubble mound Breakwater. Please verify if they are the same item or two separate items.

- a. On drawing C-102 PROPOSED SEAWATER PUMPHOUSE BUILDING GRADING PLAN AND TYPICAL DETAILS, SECTION C – SHORELINE PROTECTION, change the words “400 MINUS SURGE” to “450 CORESTONE

On drawing C-102 PROPOSED SEAWATER PUMPHOUSE BUILDING GRADING PLAN AND TYPICAL DETAILS, SECTION C – SHORELINE PROTECTION, change the words “200 MINUS SURGE” to “200 CORESTONE

On drawing C-102 PROPOSED SEAWATER PUMPHOUSE BUILDING GRADING PLAN AND TYPICAL DETAILS, SECTION C – SHORELINE PROTECTION, change the words “100 MINUS SURGE” to “100 CORESTONE

**16)** Section BB/M-101: we assume the item at the discharge of pumps is an inline strainer. Is there a specification available on the construction, sieve size, flows etc?

- a. Please refer to detail 10 on drawing M-501 for information requested

**17)** Regarding the Cathodic Protection on the seawater piping, we are requesting the mechanical engineer to provide the water flow for seawater intake to properly quote.

- a. 64L/s

### **Additional Information:**

***This Addendum and all Addenda amends and forms an integral part of the Bidding and Contract documents and shall be read in conjunction with the same.***

#### **PART 1      SPECIFICATION REFERENCE**

##### **Item 1.1      SECTION 22 21 23 – HYDRONIC PUMPS**

- .1 Item 2.2 Vertical In-Line Circulators for Seawater:
  - .1 Revise sentence .2 to read as follows:
  - .2 Impeller: 316 S.S. or Cast Iron coated with corrosion resistant epoxy enamel for seawater use.

##### **Item 1.2      SECTION 25 05 01 – EMCS: GENERAL REQUIREMENTS**

- .1 Add the following:

##### **1.11 MISCELLANEOUS CONTROL WIRING**

- .1 EMCS shall provide field wiring of equipment supplied controls for the following equipment:
  - .1 Vacuum Pump System: Proof of prime switches are shipped loose with vacuum pump for field installation. Field installation and wiring of switches shall be by Div 25 contractor. EMCS shall used as interlocks to confirm pumps are flooded and safe to activate start of respective seawater pump.

#### **PART 2      DRAWING REFERENCE**

##### **Item 2.1      DRAWING 12–M-502 MECHANICAL SEAWATER PUMPHOUSE SCHEMATIC & CONTROLS**

- .1 Detail 3 Seawater Piping Control: EMCS to provide DI type PROOF OF PRIME status points on each seawater pump P12-1A, 1B & 1C. EMCS shall used as interlocks to confirm pumps are flooded and safe to activate start of respective seawater pump.

##### **Item 2.2      DRAWING 12–E-101 ELECTRICAL SEAWATER PUMPHOUSE NEW WORK, LEGEND, SCHEDULES & DETAILS**

- .1 Revise the fire alarm annunciator shown to be a fire alarm panel (to match existing system throughout campus, Simplex 4100U) to support new devices and tie-in to existing campus system. Refer to riser on sketch 12-E-SK001.
- .2 Supply and install a wall mounted communications rack in Seawater Pumphouse c/w accessories as indicated on sketch 12-E-SK002.

**Item 2.3      DRAWING 12-E-102 ELECTRICAL SITE PLAN**

- .1 Underground electrical services to new Seawater Pumphouse shall be routed to rooms within Cabot building and connected to their respective services as indicated on sketch 12-E-SK003.
- .2 Electrical utility box shown on detail 4 may be reduced in depth to an overall dimension of 1066mm.

**Item 2.4      DRAWING 12-M-101 MECHANICAL SEAWATER PUMPHOUSE LAYOUTS, SECTIONS AND SCHEDULES:**

- .1 On layout "Sanitary Piping Layout" vent line from running trap to vent from sanitary sump to be 38mm.
- .2 On layout "Sanitary Piping Layout" vent line from sanitary sump to be 50mm from connection to sump pit, continuing below grade, up along wall to connection to vent from sink at ceiling level.

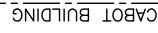
**ATTACHMENTS**

- .1 Drawings:
  - .1 12 E-SK001
  - .2 12 E-SK002
  - .3 12 E-SK003

sketch 12-S-SK001.

***All other terms and conditions will remain the same.***



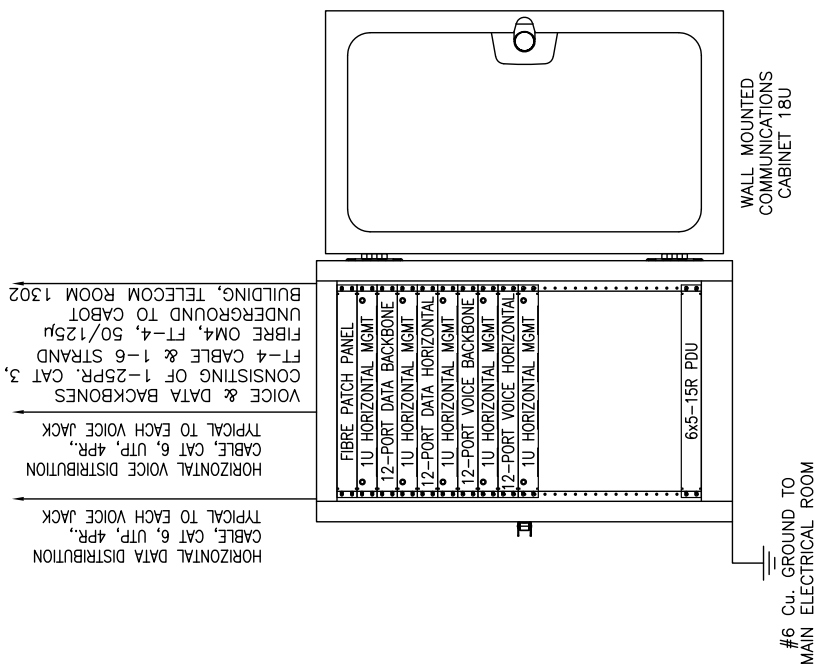


1. INITIATION LOOP WIRING IS TO BE 2C#18 AWG CU. MINIMUM, AND IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
2. ANNUNCIATION LOOP WIRING IS TO BE 2C#14 AWG CU. + #12 CU. BOND, MINIMUM, AND IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
3. REMOTE FIRE ALARM PANEL WIRING IS TO BE 1PR. #14 CU. TWISTED SHIELDED + 1PR. #18 CU. TWISTED SHIELDED CABLE.

Addendum #:04


12-E-SK001

- NOTES:
1. SUPPLY AND INSTALL ONE (1) WALL MOUNTED COMMUNICATIONS RACK C/W PATCH PANELS AS SHOWN. RACKS SHALL BE EIA COMPLIANT C/W 19" MOUNTING RAILS, 18U SPACE MINIMUM, 30" DEEP, TAPPED TO EIA STANDARD "10-32", SOLID DOOR, SIDES, BACK. RACK SHALL BE CONSTRUCTED TO SWING OPEN FOR COMPONENT CABLING ACCESS, CENTRE SECTION SHALL PIVOT FOR EITHER LEFT OR RIGHT OPENING. BOTH PIVOT AND DOOR SHALL BE LOCKABLE.
  2. PROVIDE FIRE-RATED PLYWOOD BACKER BEHIND WALL MOUNTED COMMUNICATIONS RACK.
  3. PROVIDE ONE (1) 6-OUTLET (5-15R), SURGE SUPPRESSION, POWER BAR MOUNTED AT BOTTOM OF RACK.
  4. SUPPLY AND INSTALL ONE (1) 5-15R RECEPTACLE SURFACE MOUNTED IN RACK TO CONNECT POWER BAR. FEED FROM A DEDICATED 15A, 120V CIRCUIT.



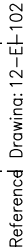
Reference Drawing: 12-E-102


Addendum #:04

 Public Works and Government Services Canada  Tender  Joan Muise PMWSSC Project Manager	Travaux publics et Services gouvernementaux Canada  Soumission  07/25/18  Administrateur de projets TPSSC	project  CANADIAN COAST GUARD COLLEGE, SYDNEY, NS SEAWATER SYSTEM & PUMPHOUSE CONSTRUCTION	Drawing title  COMMUNICATIONS RACK SEAWATER PUMPHOUSE  project number R.065476.711	Titre du dessin  no. du projet 12-E-SK002	designed CGN	date 08/02/18
					drawn MAS	date 08/02/18
					approved DJM	date 08/02/18



1. 103mmC CONTROLS CONDUIT TRANSITION THROUGH WALL FROM EXTERIOR PORTION OF PATHWAY, TERMINATE IN 406x406x150 JUNCTION BOX IN ACCESSIBLE CEILING SPACE (CONTROLS WIRING TO BE PROVIDED IN FUTURE PROJECT).
2. COMMUNICATIONS CONDUIT TRANSITION THROUGH WALL FROM EXTERIOR PORTION OF PATHWAY TO TELECOM ROOM 1302. TERMINATE CONDUIT IN 406x914x150 PULL BOX IN ACCESSIBLE CEILING SPACE AND TRANSITION TO 27mmC TO TELECOM ROOM 1302. PROVIDE THE FOLLOWING VOICE AND DATA BACKBONE CABLES FROM TELECOM 1302 TO SEAWATER PUMPHOUSE:
  - 2.1. 1-25PR. CAT 3, FT-4 CABLE.
  - 2.2. 1-6 STRAND FIBRE OM4, FT-4, 50/125µ CABLE.
3. 103mmC FIRE ALARM CONDUIT TRANSITION THROUGH WALL FROM EXTERIOR PORTION OF PATHWAY, TERMINATE IN 406x914x150 PULL BOX IN ACCESSIBLE CEILING SPACE AND TRANSITION TO 27mmC TO FIRE ALARM PANEL LOCATED IN MAIN ELECTRICAL ROOM 1403D. PROVIDE THE FOLLOWING BACKBONE CABLING BETWEEN FIRE ALARM PANEL IN MAIN ELECTRICAL ROOM 1403D AND NEW FIRE ALARM PANEL LOCATED IN SEAWATER PUMPHOUSE.
4. 103mmC POWER CONDUIT TRANSITION THROUGH WALL FROM EXTERIOR PORTION OF PATHWAY TO HVAC SWITCHBOARD LOCATED IN MAIN ELECTRICAL ROOM 1403D.
5. SKETCH SCALE IS 1:200.



 Public Works and Government Services Canada	Travail publics et Services gouvernementaux Canada	Submission		07/25/18  Administrateur de projets TPSGC	project  CANADIAN COAST GUARD COLLEGE, SYDNEY, NS SEAWATER SYSTEM & PUMPHOUSE CONSTRUCTION	project  ELECTRICAL PATHWAYS FROM SEAWATER PUMPHOUSE TO CABOT	Drawing title  no. du projet R.065476.711	drawing no.  no. du dessin 12-E-SK003
		Tender  Joan Muise	Approved date 08/02/18					