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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

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Title - Sujet Seawater System and Pumphouse Const	
Solicitation No. - N° de l'invitation EB144-190610/A	**Amendment No. - N° modif.** 004
Client Reference No. - N° de référence du client EB144-19-0610	**Date** 2018-08-03
GETS Reference No. - N° de référence de SEAG PW-$PWA-104-5757	
File No. - N° de dossier PWA-8-80026 (104)	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin **at - à 02:00 PM** **on - le 2018-08-09**	**Time Zone** **Fuseau horaire** Atlantic Daylight Saving Time ADT
F.O.B. - F.A.B. **Plant-Usine:** ☐ **Destination:** ☑ **Other-Autre:** ☐	
Address Enquiries to: - Adresser toutes questions à: Nowakowski, Leanne	**Buyer Id - Id de l'acheteur** pwa104
Telephone No. - N° de téléphone (902) 403-7112 ( )	**FAX No. - N° de FAX** (902) 496-5016
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Canada

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.

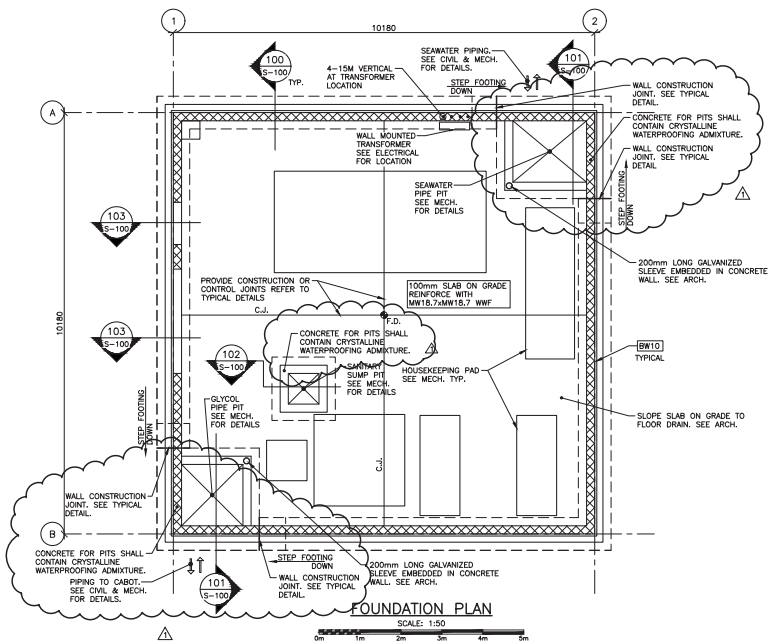
.2 On layout "Sanitary Piping Layout" vent line from sanitary sump to be 50mm from connection to sump pit, continuing below grade, up along wall to connection to vent from sink at ceiling level.

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.



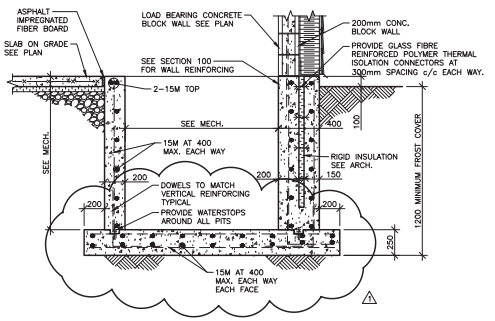
FOUNDATION PLAN

SCALE: 1:50

0m 1m 2m 3m 4m 5m

: 200mm CONCRETE BLOCK WALL REINFORCE WITH 1-15M VERTICAL ON EACH SIDE OF OPENING. 15M AT 800 c/c VERTICAL GROUTED SOLID (12.5 MPA MIN.) HEAVY DUTY TRUSS-STYLE HORIZONTAL MASONRY REINFORCEMENT AT 400 c/c. VERTICAL REINFORCING TO BE CONTINUOUS THROUGH BLOCK LINTEL. PROVIDE CONTINUOUS HORIZONTAL BOND BEAM AT TOP OF WALL c/w 2-15M BARS

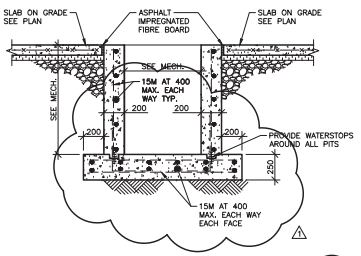
F.D.: DENOTES FLOOR DRAIN



SECTION 101 S-SK-001

SCALE : 1:20

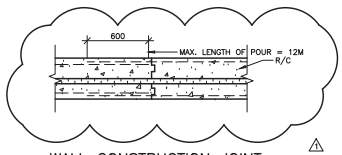
0mm 500mm 1000mm 1500mm 2000mm 2500mm



SECTION 102 S-SK-001

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm



WALL CONSTRUCTION JOINT

SCALE : N.T.S.

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

APPROX. NORTH

NEW SEAWATER PUMPHOUSE

M&R ENGINEERING
5331 Cornwallis St. Halifax, NS, B3K 1B3
Tel: (902) 422-7393 Fax: (902) 423-9945
mrengineering.ca

GENERAL NOTES :

DO NOT SCALE THIS DRAWING FOR CONSTRUCTION PURPOSES. USE FIGURED DIMENSIONS AS NOTED.

THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH SPECIFICATIONS AND GENERAL CONTRACTUAL CONDITIONS.

ALL DIMENSIONS AND CONDITIONS ARE TO BE VERIFIED ON SITE. ALL DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE AND AGREED UPON WITH THEM IN WRITING BEFORE PROCEEDING WITH WORKS.

INFORMATION ON THESE DRAWINGS IS TO BE USED FOR THIS PROJECT ONLY AND SHALL NOT BE USED FOR ANY OTHER PURPOSE

Addendum #:01
Reference Drawing: 12-S-100 / 12-S-101

project / projet
CANADIAN COAST GUARD COLLEGE, SYDNEY, NS
SEAWATER SYSTEM & PUMPHOUSE CONSTRUCTION

drawing / dessin
SCTRUCTURAL
SEEWATER PUMPHOUSE

PLANS, SECTIONS AND TYPICAL DETAILS

designed	M.F.
date	08/01/18
drawn	STAFF
date	08/01/18
approved	M.C.
date	08/01/18
Tender	Joan Muise
PWGSC Project Manager	
project number	R.065476.711
drawing no.	12-S-SK001

Soumission MM/DD/YY
Administrateur de projets TPSGC

ZI:\Cad-Drawings\Canadian Coast Guard College (138160)\12 - New Seawater Pump House\538447-12-S-SK001-NEW SEAWATER PUMP HOUSE- PLANS, SECTIONS AND TYPICAL DETAILS.dwg Aug 01, 2018 - 4:07pm

PWGSC B1 (2004)

E-DRM/GDD-E: 538447

NOTES:

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

Reference Drawing: 12-E-102

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

Tender / Soumission

Joan Müise — PWGSC Project Manager

07/25/18 — Administrateur de projets TPSGC

project / projet

CANADIAN COAST GUARD COLLEGE, SYDNEY, NS
SEAWATER SYSTEM & PUMPHOUSE CONSTRUCTION

Drawing title / Titre du dessin

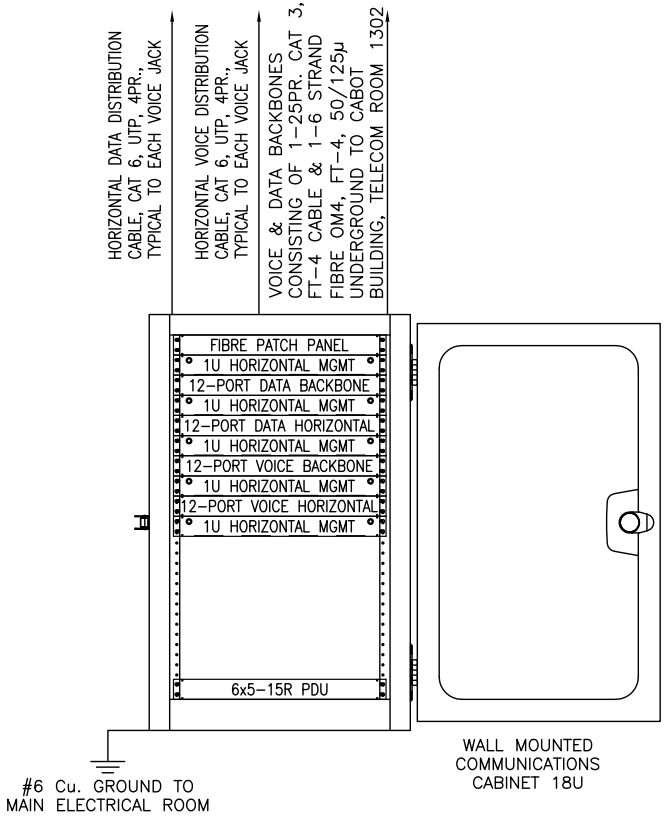
FIRE ALARM RISER SEAWATER PUMPHOUSE

project number: R.065476.711

no. du projet

designed / conçu	CGN	08/02/18
drawn / dessiné	MAS	08/02/18
approved / approuvé	DJM	08/02/18

drawing no. / no. du dessin: 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.

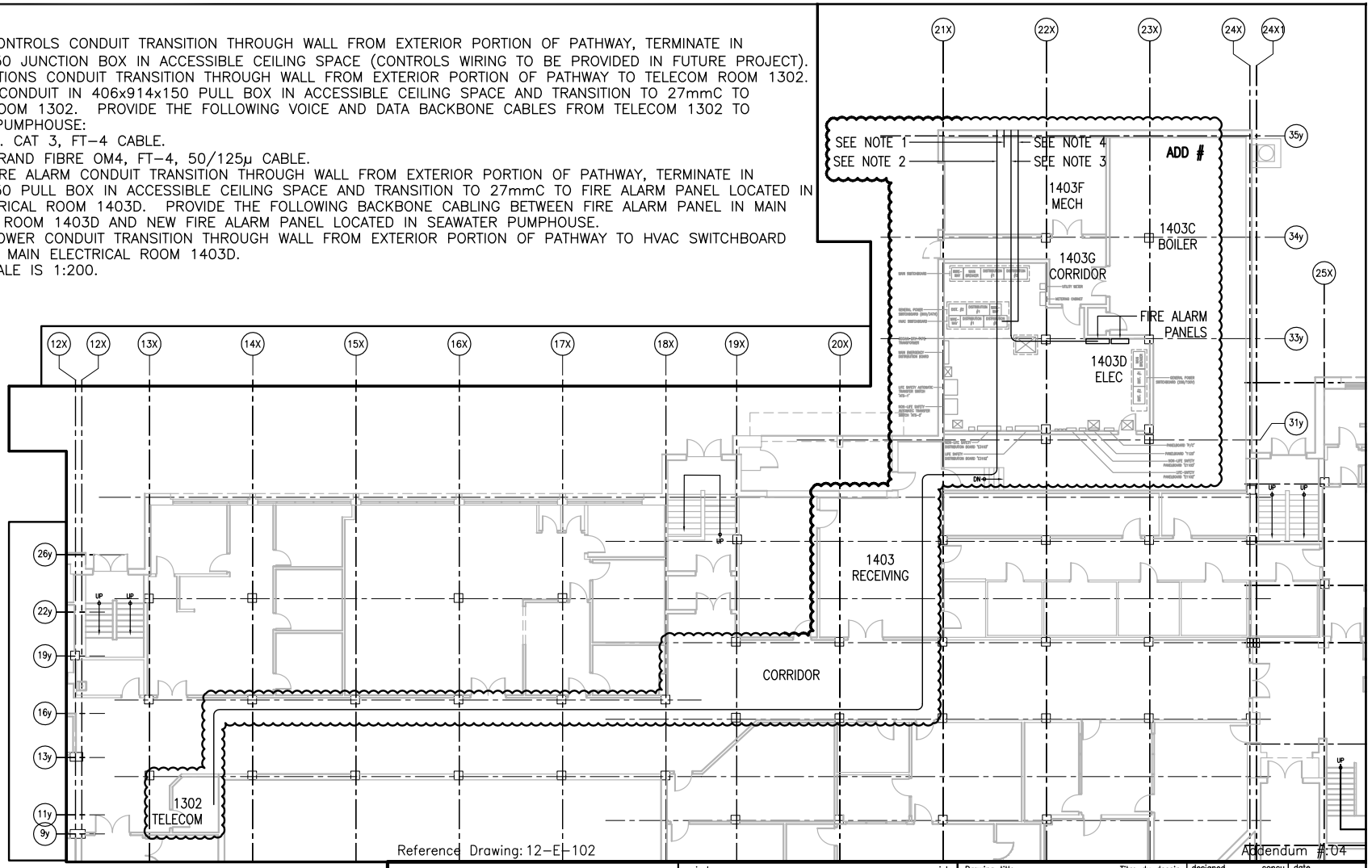
Reference Drawing: 12-E-102

Addendum #:04

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

NOTES:

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.



Reference Drawing: 12–E–102

Addendum #:04

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada	project / projet: CANADIAN COAST GUARD COLLEGE, SYDNEY, NS SEAWATER SYSTEM & PUMPHOUSE CONSTRUCTION	Drawing title / Titre du dessin: ELECTRICAL PATHWAYS FROM SEAWATER PUMPHOUSE TO CABOT	designed / conçu: CGN — date: 08/02/18
Tender / Soumission: Joan Muise — 07/25/18			drawn / dessiné: MAS — date: 08/02/18
PWGSC Project Manager / Administrateur de projets TPSGC		project number / no. du projet: R.065476.711	approved / approuvé: DJM — date: 08/02/18
			drawing no. / no. du dessin: 12–E–SK003