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## SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise  
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Ce document est par la présente révisé; sauf indication contraire,  
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<b>Title - Sujet</b> CCGC Mechanical and Sprinklers	
<b>Solicitation No. - N° de l'invitation</b> EB144-190543/A	<b>Amendment No. - N° modif.</b> 008
<b>Client Reference No. - N° de référence du client</b> EB144-19-0543	<b>Date</b> 2018-08-14
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWA-121-5750	
<b>File No. - N° de dossier</b> PWA-8-80020 (121)	<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 2018-08-21</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> Russell (PWA), Alex	<b>Buyer Id - Id de l'acheteur</b> pwa121
<b>Telephone No. - N° de téléphone</b> (902) 401-8180 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
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<b>Signature</b>	<b>Date</b>

***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.***

- Q. A number of the RCP drawings for the Coast Guard College are showing either new or demoed mechanical services on the incorrect layouts. An example of this is on all residence demo RCPs, where both demo and new sprinkler heads are showing up.
- A. Refer to the Mechanical and Electrical Drawings for Mechanical and Electrical information and scope, including all existing information, demolitions and new works. Background representation of M&E systems on the Architectural drawings shall be removed for purposes of the IFC drawings to be issues. Note that all coordination between ceiling layouts and M&E system mounted therein is shown on the M&E drawings only.

**ADDENDUM NO. 2**

- .1 Revise Answer 5 to the following: No, triple duty valves are not approved on pumps with variable speed drives. Installation shall be as per detail 5 drawing MH502.

**ADDENDUM NO. 5**

- .1 Item 1.2: SECTION 25 05 01 – EMCS GENERAL REQUIREMENTS  
Revise numbering of new items added as follows:
- .15 MISCELLANEOUS CONTROL WIRING
  - .16 INTERFACING WITH VACUUM PUMP SYSTEM (Bldg 12 Seawater Pumphouse)
  - .17 EXISTING BUILDING CONTROL SYSTEMS (ALL BUILDING)
  - .18 EMCS CONTROLS IN COMPLETED CONSTRUCTION PHASES

**PART 2      SPECIFICATION REFERENCE**

**Item 2.1      SECTION 11 41 23 – PREFABRICATED WALK-IN FREEZERS AND COOLERS**

- .1 Under clause 2.8, add the following: “.6 Condensing unit to be equipped with dry contacts with feedback of an alarm condition to the EMCS.”

**Item 2.2      SECTION 23 05 16 EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING**

- .1      Add the following:

**2.4 EXPANSION JOINTS**

- .1      Bellow type, corrugated packless as follows:
- .1      With external 300 series stainless steel guide sleeves, and external rings with machined faces abutting each other for full circumference.
  - .2      With external guide rods.
  - .3      Flanged ends.
  - .4      Shrouds over external surfaces for insulation.
  - .5      Pipe alignment guide as indicated c/w guiding cylinder and base, cast or fabricated spider, hex head bolts and hex nuts. Use minimum of three pipe guides on each side of the expansion joint. Locate first pipe alignment no more than four (4) pipe diameters from the expansion joint compensators. The second guide shall be located no more than fourteen (14) pipe diameters from the first guide. The remaining guides shall be located as recommended by the manufacturer.
  - .6      Engineer reserves right to compress one or more of each size of joint to its solid height to ensure that nameplate traverse is met. After which, joint shall be expanded to its shipping face to face dimension and re-checked hydrostatically. On joint failing, joints shall be removed from site as unacceptable.
  - .7      Axial Traverse: pipe expansion plus 25% or as indicated.
  - .8      Working Pressure: 860 kPa.

**2.5 EXPANSION COMPENSATORS**

- .1      Factory assembled unit with stainless steel bellows in carbon steel casing. Install with anti-torque groove in case, internally guide pipe at both ends. Provide full length internal liner to contained medium. Install on pipes 63mm and smaller.
- .2      Expansion compensators to have 75mm compression stroke and 6mm extension stroke.
- .3      Provide anchors precisely where indicated.
- .4      Provide pipe alignment guides as specified for expansion joints above in expansion joints.

.5 Working Pressure: 860 kPa.”

.2 Item 3.1 Installation: Revise sentence .2 to read:

“.2 Provide expansion loops and expansion joints as indicated and as required for proper operation of the piping system.”

**Item 2.3 SECTION 23 21 13.02 – HYDRONIC SYSTEMS - STEEL**

.1 Under clause 2.6 delete all references to Victaulic and the associated model numbers.

**Item 2.4 SECTION 23 25 00 – HVAC WATER TREATMENT SYTEMS**

.1 Item 3.8.2 Glycol Heating Systems: This also applies to glycol cooling systems. In addition to the glycol systems in this project, provide glycol for all HXWS &R piping system including services within Bldg 12- Seawater Pumphouse and underground HXWS & R piping between Bldg 12 Seawater Pumphouse and Bldg 01 Cabot.

**Item 2.5 SECTION 23 51 00 BREECHING, CHIMNEYS AND STACKS**

.1 Item 2.2.2: Add: “.4 Thickness: 50mm”.

**Item 2.6 SECTION 23 81 23 – COMPUTER ROOM AIR CONDITIONING**

.1 Replace this specification section with the attached version dated 2018-08-10.

**PART 3 DRAWING REFERENCE**

**Item 3.1 DRAWING 01-MC-101 CONTROLS – CABOT - SCHEMATICS**

.1 Revise the drawing as per the attached Sketch 01-MC-SK002 (This Addendum).

**Item 3.2 DRAWING 01-MC-103 CONTROLS CABOT - SCHEMATICS**

.1 Revise the drawing as per the attached Sketch 01-MC-SK001 (This Addendum).

**Item 3.3      DRAWING 01-MDH-401 - HVAC PIPING – CABOT - BOILER ROOM DEMOLITION**

- .1      Revise Low Level Piping Demolition per sketch 01-MDH-SK002 (This Addendum).

**Item 3.4      DRAWING 01-MH-103 HVAC PIPING – CABOT CENTRAL - LEVEL 100 NEW WORK**

- .1      Revise the drawing as per the attached Sketch 01-MH-SK012 (This Addendum).

**Item 3.5      DRAWING 01-MH-104 HVAC PIPING – CABOT CENTRAL - LEVEL 200 NEW WORK**

- .1      Revise the drawing as per the attached Sketch 01-MH-SK012 (This Addendum).

**Item 3.6      DRAWING 01-MH-105 HVAC PIPING – CABOT CENTRAL - LEVEL 300 NEW WORK**

- .1      Revise the drawing as per the attached Sketch 01-MH-SK012 (This Addendum).

**Item 3.7      DRAWING 01-MH-106 HVAC PIPING – CABOT CENTRAL - LEVEL 400 NEW WORK**

- .1      Revise the drawing as per the attached Sketch 01-MH-SK012 (This Addendum).

**Item 3.8      DRAWING 01-MH-111 - HVAC PIPING – CABOT TUNNELS - NEW WORK**

- .1      Add expansion joints, pipe anchors and pipe guides to heating services in East and West Tunnels per sketch 01-MH-SK011 (This Addendum).

**Item 3.9      DRAWING 01-MH-401 - HVAC PIPING - CABOT - BOILER ROOM NEW WORK**

- .1      Cabot Boiler Room – New Work floor plan: Revise note on 200 diam. HXWS & HXWR piping entering Boiler Room along grid line 35Y near grid line 24X to read as follows: 200 mm diameter HXWS & HXWR piping to exit Boiler room exterior wall and run underground and connect to HXWS & HXWR piping services provide under Project R.065476.711 at 1500mm from Boiler Room Foundation wall. In addition to the glycol systems in this contract, this project shall be responsible for providing glycol solution for entire HXWS & R piping system back to Seawater pumphouse.

**Item 3.10      DRAWING 01-MH-503 HVAC PIPING – CABOT - DETAILS**

- .1      Add Detail 3 to this drawing per Sketch 06-MH-SK004 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).
- .2      Revise the drawing as per the attached Sketch 01-MH-SK015 (This Addendum).

**Item 3.11      DRAWING 01-MH-602 - HVAC PIPING – CABOT SCHEDULES**

- .1      Revise Pump Schedule per sketch 01-MH-SK008 (This Addendum).
- .2      Add Expansion Tank Schedule per sketch 01-MH-SK009 (This Addendum).
- .3      Add Air Separator Schedule per sketch 01-MH-SK010 (This Addendum).
- .4      Add Heating Coil Schedule per sketch 01-MH-SK013 (This Addendum).
- .5      Revise the drawing as per the attached Sketch 01-MH-SK014 (This Addendum).

**Item 3.12      DRAWING 01-MDP-107 PLUMBING - CABOT EAST - LEVEL 100 DEMOLITION**

- .1      Revise the drawing as per the attached sketch 01-MDP-SK001.

**Item 3.13      DRAWING 01-MP-102 PLUMBING - CABOT WEST - LEVEL 300 NEW WORK**

- .1      Revise condensate pipe sizing from AHU1-1 to existing hub drain on 3110C Mechanical Mezzanine from 25mm to 38mm.

**Item 3.14      DRAWING 01-MP-105 PLUMBING - CABOT CENTRAL - LEVEL 300 NEW WORK**

- .1      Revise condensate pipe sizing from louvres and AHU1-2 in Mechanical Room 3116 per Sketch 08-MP-SK001 Cabot Level 300 Condensate Pipe Sizing dated 2018-08-10 (This Addendum).

**Item 3.15      DRAWING 01-MP-106 PLUMBING - CABOT CENTRAL - LEVEL 400  
NEW WORK**

- .1      Revise the drawing as per the attached Sketch 01-MP-SK011 (This Addendum).

**Item 3.16      DRAWING 01-MP-109 PLUMBING - CABOT EAST - LEVEL 300 NEW  
WORK**

- .1      Revise condensate pipe sizing from AHU1-3 to existing funnel floor drain in Mechanical Room 3152 from 19mm to 38mm.
- .2      Revise condensate pipe sizing from louvres to existing funnel floor drain in Mechanical Room 3152 from 19mm & 25mm to 38mm.
- .3      Revise condensate pipe sizing from AHU1-4 to existing funnel floor drain in Mechanical Room 3148 from 19mm to 38mm.
- .4      Revise condensate pipe sizing from louvres to existing funnel floor drain in Mechanical Room 3152 from 19mm to 38mm.

**Item 3.17      DRAWING 01-MP-401 PLUMBING - CABOT WEST -  
FREEZER/COOLER HEAT RECOVERY LAYOUT & SCHEMATICS**

- .1      Revise freezer/cooler heat recovery plan and schematics per Sketch 01-MP-SK008 Plumbing Cabot West Level 100 Freezer/Cooler Heat Recovery Plan & Schematics dated 2018-08-10 (This Addendum).

**Item 3.18      DRAWING 01-MP-501 - CABOT - PLUMBING DETAILS**

- .1      Revise pipe sizing on Detail 8 of this drawing per Sketch 01-MP-SK006 Pipe Sizing for Humidifier Piping Detail dated 2018-08-10 (This Addendum).

**Item 3.19      DRAWING 01-MP-601 - CABOT - PLUMBING SCHEDULES**

- .1      Refer to Sketch 01-MP-SK010 Cabot West Level 100 Freezer/Cooler Heat Recovery Schedules & Details dated 2018-08-10 (This Addendum).

**Item 3.20      DRAWING 01-MV-110 - HVAC – VENTILATION CABOT EAST LEVEL  
400 NEW WORK**

- .1      Add atrium Smoke Exhaust Fan System EF1-18 per sketch 01-MV-SK007 (This Addendum).

**Item 3.21      DRAWING 01-MV-502 - CABOT - VENTILATION DETAILS**

- .1      Add Detail 10 to this drawing per Sketch 01-MV-SK009 Vertical Ducted Fan Coil Detail dated 2018-08-10 (This Addendum).

**Item 3.22      DRAWING 01-MV-602 - VENTILATION - CABOT SCHEDULES**

- .1      Revise Exhaust Fan Schedule per sketch 01-MV-SK006 (This Addendum).

**Item 3.23      DRAWING 01-MV-605 - VENTILATION - CABOT SCHEDULES**

- .1      Provide installation of cross talk silencers complete with ductwork and grilles as detailed per sketch 01-MV-SK008 (This Addendum).

**Item 3.24      DRAWING 02-MH-101 HVAC PIPING ARCTIC LEVEL 100 & 200 NEW WORK**

- .1      Revise location of CHWS & CHWR piping to relocated fan coil FC2-1.09, and add Humidifier HU2-4 to Mech Room E113 per Sketch 02-MH-SK001 Humidifier HU2-4 Mech Rm E113 dated 2018-08-10 (This Addendum).

**Item 3.25      DRAWING 02-MH-502 ARCTIC/ATLANTIC HVAC PIPING DETAILS**

- .1      Revise Detail 3 of this drawing per Sketch 06-MH-SK004 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).

**Item 3.26      DRAWING 02-MP-101 PLUMBING ARCTIC LEVEL 100 & 200 NEW WORK**

- .1      Add humidifier HU2-4 to Mech Room E113 per Sketch 02-MP-SK001 Addition of Humidifier HU2-4 in Mech Rm 113 dated 2018-08-10 (This Addendum).
- .2      Revise condensate drain piping to relocated fan coil FC2-1.09 per Sketch 02-MP-SK002 Relocated FC2-1.09 Condensate Line Addition dated 2018-08-10 (This Addendum).

**Item 3.27      DRAWING 02-MV-101 VENTILATION ARCTIC LEVEL 100 & 200 NEW WORK**

- .1      Revise location of fan coil FC2-1.09 and associated ductwork per Sketch 02-MV-SK001 Fan Coil FC2-1.09 Revisions dated 2018-08-10 (This Addendum).



**Item 3.28      DRAWING 02-MV-502 ARCTIC/ATLANTIC VENTILATION DETAILS**

- .1      Add Detail 8 to this drawing per Sketch 01-MV-SK009 Vertical Ducted Fan Coil Detail dated 2018-08-10 (This Addendum).

**Item 3.29      DRAWING 03-MH-502 GREAT LAKES/PACIFIC HVAC PIPING DETAILS**

- .1      Revise Detail 7 of this drawing per Sketch 06-MH-SK004 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).
- .2      Revise Detail 8 of this drawing per Sketch 06-MH-SK005 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).
- .3      Revise Detail 9 of this drawing per Sketch 06-MH-SK006 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).

**Item 3.30      DRAWING 03-MP-103 PLUMBING GREAT LAKES LEVEL 100 & 200 NEW WORK**

- .1      Revise domestic water lines for heat exchanger removal and replacement in Mechanical Room D112 per Sketch 03-MP-SK001 03 – Pacific/Great Lakes Heat Exchanger Revision dated 2018-08-10 (This Addendum).

**Item 3.31      DRAWING 03-MV-101 VENTILATION PACIFIC LEVEL 100 & 200 NEW WORK**

- .1      Washroom exhaust duct size from room C202 to be 200x100.
- .2      Level 200 - 100ø F/A duct to the left of grid line 2 to tie into fan coil VFC3-2.04.

**Item 3.32      DRAWING 03-MV-102 VENTILATION PACIFIC LEVEL 300 & ATTIC NEW WORK**

- .1      Revise S/A duct from attic to Office C319 to be 300x150.
- .2      Fan coil FC3-4.07 to be controlled from thermostat located in corridor below.

- .3 Fan coil FC3-4.08 to be controlled from thermostat located in Office C314 below.
- .4 Fan coil FC3-4.09 to be controlled from thermostat located in corridor below.
- .5 Fan coil FC3-4.10 to be controlled from thermostat located in Office C319 below.
- .6 Fan coil FC3-4.11 to be controlled from thermostat located in corridor below.
- .7 Fan coil FC3-4.12 to be controlled from thermostat located in MCTS Training Room C307 below.

**Item 3.33 DRAWING 03-MV-104 VENTILATION GREAT LAKES LEVEL 300 & ATTIC NEW WORK**

- .1 Fan coil FC3-4.01 to be controlled from thermostat located in corridor below.
- .2 Fan coil FC3-4.02 to be controlled from thermostat located in Dorm 453 below.
- .3 Fan coil FC3-4.03 to be controlled from thermostat located in corridor below.
- .4 Fan coil FC3-4.04 to be controlled from thermostat located in Dorm 463 below.
- .5 Fan coil FC3-4.05 to be controlled from thermostat located in corridor below.
- .6 Fan coil FC3-4.06 to be controlled from thermostat located in Dorm 586 below.

**Item 3.34 DRAWING 03-MV-502 GREAT LAKES/PACIFIC VENTILATION DETAILS**

- .1 Add Detail 8 to this drawing per Sketch 01-MV-SK009 Vertical Ducted Fan Coil Detail dated 2018-08-10 (This Addendum).

**Item 3.35      DRAWING 04-MH-103 HVAC PIPING MIRAMICHI LEVEL 100 & 200 NEW WORK**

- .1      Level 100 - Provide control of fan coil VFC4-1.02 from thermostat shown in corridor.

**Item 3.36      DRAWING 04-MH-502 SAGUENAY/MIRAMICHI HVAC PIPING DETAILS**

- .1      Revise Detail 3 of this drawing per Sketch 06-MH-SK004 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).

**Item 3.37      DRAWING 04-MV-101 VENTILATION SAGUENAY LEVEL 100 & 200 NEW WORK**

- .1      Elec Room AA131 – Ceiling exhaust and return grilles to be E6/R6, 102L/s. Sidewall return grille to be RG5, 102L/s. E/A duct to EF4-1 to be 250x150. R/A duct to be 400x150.
- .2      Elec Room AA148 – Sidewall exhaust grille to be EG1, 28L/s. E/A duct from EF4-2 to be 200x200.
- .3      Level 100 - Revise F/A duct riser size to fan coil FC4-1.04 to be 150ø.
- .4      Level 200 – Revise E/A duct size up/dn in wall at grid line 11 between AA230 Laundry and 417 Cadet Captain to 250x100.

**Item 3.38      DRAWING 04-MV-102 VENTILATION SAGUENAY LEVEL 300 & ATTIC NEW WORK**

- .1      Fan coil FC4-4.01 to be controlled from thermostat located in corridor below.
- .2      Fan coil FC4-4.02 to be controlled from thermostat located in Dorm 404 below.
- .3      Fan coil FC4-4.03 to be controlled from thermostat located in corridor below.
- .4      Fan coil FC4-4.04 to be controlled from thermostat located in Dorm 429 below.
- .5      Fan coil FC4-4.05 to be controlled from thermostat located in corridor below.
- .6      Fan coil FC4-4.06 to be controlled from thermostat located in Dorm 437 below.

**Item 3.39      DRAWING 04-MV-103 VENTILATION MIRAMICHI LEVEL 300 & ATTIC NEW WORK**

- .1      Elec Room BB197 – Ceiling exhaust and return grilles to be E6/R6, 102L/s. Sidewall return grille to be RG5, 102L/s. E/A duct to EF4-4 to be 250x150. R/A duct to be 400x150.
- .2      Elec Room BB189 – Sidewall exhaust grille to be EG1, 28L/s. E/A duct from EF4-3 to be 200x200.

**Item 3.40      DRAWING 04-MV-502 SAGUENAY/MIRAMICHI VENTILATION DETAILS**

- .1      Add Detail 8 to this drawing per Sketch 01-MV-SK009 Vertical Ducted Fan Coil Detail dated 2018-08-10 (This Addendum).

**Item 3.41      DRAWING 04-MV-601 VENTILATION SAGUENAY/MIRAMICHI SCHEDULES**

- .1      Exhaust Fan Schedule – Revise air flows of exhaust fans EF4-1 & EF4-4 from 189 L/s to 102 L/s.

**Item 3.42      DRAWING 05-MC-101 CONTROLS – TELC/MCTS/MECKENZIE SCHEMATICS**

- .1      Revise the drawing as per the attached Sketch 05-MH-SK001 (This Addendum).

**Item 3.43      DRAWING 05-MDH-101 HVAC PIPING - TELC/MCTS – LEVEL 100 – 200 DEMOLITION**

- .1      Revise the drawing as per the attached Sketch 05-MDH-SK001 (This Addendum).

**Item 3.44      DRAWING 05-MDP-101 PLUMBING – TELC/MCTS – LEVEL 100 – 200 DEMOLITION**

- .1      Revise the drawing as per the attached Sketch 05-MDP-SK001 (This Addendum).

**Item 3.45      DRAWING 05-MDV-101 VENTILATION – TELC/MCTS LEVEL 100 – 200 DEMOLITION**

- .1      Revise the drawing as per the attached Sketch 05-MDV-SK001 (This Addendum).

**Item 3.46      DRAWING 05-MDV-103 VENTILATION MACKENZIE LEVEL 100 & 200 DEMOLITION**

- .1      Workshop CC107 – Revise existing wall-mounted exhaust fan, associated ductwork, and wall cap as existing to remain.

**Item 3.47      DRAWING 05-MH-101 HVAC PIPING – TELC/MCTS – LEVEL 100 – 200 NEW WORK**

- .1      Revise the drawing as per the attached Sketch 05-MH-SK001(This Addendum).
- .2      Level 100 – Remove RL and RG piping shown between WM5-1.08 (MacKenzie) and existing Condensing Unit AC5-06e. Provide new 19mm CHWS & CHWR branch lines to serve WM5-1.08 from 50mm CHWS & 75mm CHWR lines running above corridor ceiling.
- .3      Level 100 – Provide new CHWS & CHWR branch lines to serve ducted fan coils FC4-1.03 from CHWS & CHWR lines running above corridor ceiling.
- .4      Level 200 – Provide new CHWS & CHWR branch lines to serve ducted fan coils FC4-2.01, FC4-2.02, FC4-2.03, & FC4-2.04 from CHWS & CHWR lines running through level 200 corridor ceiling.

**Item 3.48      DRAWING 05-MH-103 HVAC PIPING MACKENZIE LEVEL 100 & 200 NEW WORK**

- .1      Level 100 – Revise room temperature sensor serving WM5-1.08 in Elec Room DD175 to a thermostat.

**Item 3.49      DRAWING 05-MH-502 MCTS/MACKENZIE HVAC PIPING DETAILS**

- .1      Revise Detail 3 of this drawing per Sketch 06-MH-SK004 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).

**Item 3.50      DRAWING 05-MP-101 PLUMBING – TELC/MCTS – LEVEL 100 – 200 NEW WORK**

- .1      Revise the Drawing as per the attached Sketch 05-MP-SK002 (This Addendum).

**Item 3.51      DRAWING 05-MV-101 VENTILATION – TELC/MCTS – LEVEL 100 – 200 NEW WORK**

- .1      Revise the drawing as per the attached Sketch 05-MV-SK001 (This Addendum).
- .2      Workshop CC107 – Delete new exhaust hood, associated wall cap, and wall cap.

**Item 3.52      DRAWING 05-MV-103 VENTILATION MACKENZIE LEVEL 100 & 200 NEW WORK**

- .1      Elec Room DD169 – Sidewall exhaust grille to be EG1, 28L/s. E/A duct from EF5-1 to be 200x200.

**Item 3.53      DRAWING 05-MV-104 VENTILATION MACKENZIE LEVEL 300 & ATTIC NEW WORK**

- .1      Level 300 – Revise S/A duct riser size in mechanical shaft to the left of grid line 4 to be 450x200 UP, 450x150 DN.

**Item 3.54      DRAWING 05-MV-301 VENTILATION – TELC/MCTS/MACKENZIE SECTIONS**

- .1      Revise the drawing as per the attached Sketch 05-MV-SK002 (This Addendum).

**Item 3.55      DRAWING 05-MV-502 MCTS/MACKENZIE VENTILATION DETAILS**

- .1      Add Detail 8 to this drawing per Sketch 01-MV-SK009 Vertical Ducted Fan Coil Detail dated 2018-08-10 (This Addendum).

**Item 3.56      DRAWING 05-MV-601 VENTILATION – TELC/MCTS/MACKENZIE SCHEDULES**

- .1      Revise the drawing as per the attached Sketch 05-MV-SK003 (This Addendum).

**Item 3.57      DRAWING 06-MH-502 ALERT HVAC PIPING DETAILS**

- .1      Revise Detail 7 of this drawing per Sketch 06-MH-SK004 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).

- .2 Revise Detail 8 of this drawing per Sketch 06-MH-SK005 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).
- .3 Revise Detail 9 of this drawing per Sketch 06-MH-SK006 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).

**Item 3.58 DRAWING 06-MV-502 ALERT VENTILATION DETAILS**

- .1 Add Detail 10 to this drawing per Sketch 01-MV-SK009 Vertical Ducted Fan Coil Detail dated 2018-08-10 (This Addendum).

**Item 3.59 DRAWING 07-MH-502 ST. LAURENT HVAC PIPING DETAILS**

- .1 Revise Detail 3 of this drawing per Sketch 06-MH-SK004 HVAC Piping Wall Mounted Fan Coil Detail Revisions dated 2018-08-10 (This Addendum).

**Item 3.60 DRAWING 07-MV-102 VENTILATION ST. LAURENT 300 & ATTIC NEW WORK**

- .1 Attic level - Revise two E/A duct riser sizes up from level below along wall of grid line 12' to be 200x75.

**Item 3.61 DRAWING 07-MV-502 ST. LAURENT VENTILATION DETAILS**

- .1 Add Detail 10 to this drawing per Sketch 01-MV-SK009 Vertical Ducted Fan Coil Detail dated 2018-08-10 (This Addendum).

**Item 3.62 DRAWING 07-MV-601 VENTILATION ST. LAURENT SCHEDULES**

- .1 Exhaust Fan Schedule – Revise air flows of exhaust fans EF7-1 & EF7-2 from 189 L/s to 102 L/s.

**Item 3.63 DRAWING 08-MP-101 PLUMBING D'IBERVILLE CENTRE LEVEL 100 NEW WORK**

- .1 Revise all new condensate line sizing in Mechanical Room P109 down from level 200 to existing floor drain to be 38mm.

**Item 3.64 DRAWING 08-MP-102 PLUMBING D'IBERVILLE CENTRE LEVEL 200 & 300 NEW WORK**

- .1 Revise new condensate line up/dn in level 200 mechanical chase next to ERV8-1 from 19mm to 38mm.

- .2 Revise condensate pipe sizing from louvres and AHU8-2 in Level 300 Mechanical Room next to Gym per Sketch 08-MP-SK001 D'Iberville Centre Level 300 Condensate Pipe Sizing dated 2018-08-10 (This Addendum).
- .3 Provide new 19mm condensate from ERV8-2 in Mechanical Room P302 and run to nearest existing floor drain.

**Item 3.65 DRAWING 08-MV-502 D'IBERVILLE CENTRE VENTILATION DETAILS**

- .1 Add Detail 4 to this drawing per Sketch 01-MV-SK009 Vertical Ducted Fan Coil Detail dated 2018-08-10 (This Addendum).

**Item 3.66 ADD THE FOLLOWING NEW DRAWINGS**

BLDG	SKETCH	SKETCH TITLE	DATE
01 CABOT	01-MC-SK001	EMCS System Architecture	2018-08-10
01 CABOT	01-MC-SK002	Split System Control	2018-08-10
01 CABOT	01-MDP-SK001	1403C Boiler Exist. Hot Water Tank Connections	2018-08-10
01 CABOT	01-MDH-SK002	01 – Cabot Level 100 Boiler Room 1403C Piping Demolition Revisions	2018-08-10
01 CABOT	01-MH-SK008	01 – Cabot Building Pump Schedule	2018-08-10
01 CABOT	01-MH-SK009	01 – Cabot Expansion Tank Schedule	2018-08-10
01 CABOT	01-MH-SK010	01 – Cabot Air Separator Schedule	2018-08-10
01 CABOT	01-MH-SK011	01 – Cabot Level 100 West & East Tunnels Expansion Joints	2018-08-10
01 CABOT	01-MH-SK012	Cabot Central Server Rm 4115 Split System	2018-08-10
01 CABOT	01-MH-SK013	01 – Cabot Heating Coil Schedule	2018-08-10
01 CABOT	01-MH-SK014	Cabot Split System Schedules	2018-08-10
01 CABOT	01-MH-SK015	Cabot Split System Details	2018-08-10
01 CABOT	01-MP-SK006	Pipe Sizing for Humidifier Piping Detail	2018-08-10
01 CABOT	01-MP-SK007	Cabot Level 300 Condensate Pipe Sizing	2018-08-10
01 CABOT	01-MP-SK008	Plumbing – Cabot West – Freezer/Cooler Heat Recovery Plan & Schematics	2018-08-10



BLDG	SKETCH	SKETCH TITLE	DATE
01 CABOT	01-MP-SK009	Cabot Level 100 Freezer/Cooler Condensate Piping	2018-08-10
01 CABOT	01-MP-SK010	Plumbing – Cabot West – Freezer/Cooler Heat Recovery Schedules & Details	2018-08-10
01 CABOT	01-MP-SK011	Cabot Central Server Room 4115 Split System Condensate Drain Piping	2018-08-10
01 CABOT	01-MV-SK006	01 – Cabot Return/Exhaust Fan Schedule	2018-08-10
01 CABOT	01-MV-SK007	EF1 – 18 Smoke Exhaust System Addition Storage Rm 4150	2018-08-10
01 CABOT	01-MV-SK008	01 – Cabot Building Cross Talk Silencer Schedule and Details	2018-08-10
01 CABOT	01-MV-SK009	Ducted Vertical Fan Coil Details	2018-08-10
02 ARCTIC/ ATLANTIC	02-MH-SK001	Humidifier HU2-4 Mech Rm E113	2018-08-10
02 ARCTIC/ ATLANTIC	02-MP-SK001	Addition of Humidifier HU2-4 in Mech Rm E113	2018-08-10
02 ARCTIC/ ATLANTIC	02-MP-SK002	Relocated FC2-1.09 Condensate Line Addition	2018-08-10
02 ARCTIC/ ATLANTIC	02-MV-SK001	02 – Arctic Fan Coil FC2-1.09 Revisions	2018-08-10
03 GREAT LAKES/PACIFIC	03-MP-SK001	03 – Pacific/Great Lakes Heat Exchanger Revision	2018-08-10
05 TELC/MCTS	05-MC-SK001	Existing Liebert CRAC Unit Controls	2018-08-10
05 TELC/MCTS	05-MDH-SK001	Heating Piping - Demolition MCTS Server Room CC108 Liebert Unit Revisions	2018-08-10
05 TELC/MCTS	05-MDP-SK001	Plumbing – Demolition MCTS Server Room CC108 Liebert Unit Revisions	2018-08-10
05 TELC/MCTS	05-MDV-SK001	Ventilation – Demolition MCTS Server Room CC108 Liebert Unit Revisions	2018-08-10
05 TELC/MCTS	05-MH-SK001	HVAC Piping – New Work	2018-08-10

BLDG	SKETCH	SKETCH TITLE	DATE
		MCTS Server Room CC108 Liebert Unit Revisions	
05 TELC/MCTS	05-MP-SK002	Plumbing – New Work MCTS Server Room CC108 Liebert Unit Revisions	2018-08-10
05 TELC/MCTS	05-MV-SK001	Ventilation – New Work MCTS Server Room CC108 Liebert Unit Revisions	2018-08-10
05 TELC/MCTS	05-MV-SK002	05 - MCTS MCTS Server Room CC108 Sections	2018-08-10
05 TELC/MCTS	05-MV-SK003	05 - MCTS Sidewall, Supply, Exhaust, & Return Grille Schedules Revisions	2018-08-10
06 ALERT	06-MH-SK004	HVAC Piping Wall Mounted Fan Coil Detail Revisions	2018-08-10
06 ALERT	06-MH-SK005	HVAC Piping Wall Mounted Fan Coil Detail Revisions	2018-08-10
06 ALERT	06-MH-SK006	HVAC Piping Wall Mounted Fan Coil Detail Revisions	2018-08-10
08 D'IBERVILLE	08-MP-SK001	D'Iberville Centre Level 300 Condensate Pipe Sizing	2018-08-10

## ATTACHMENTS

### .1 Specifications:

- .1 23 81 23 – Computer Room Air Conditioning

### .2 Drawings:

01-MC-SK001
01-MC-SK002
01-MDP-SK001
01-MDH-SK002
01-MH-SK008
01-MH-SK009
01-MH-SK010
01-MH-SK011
01-MH-SK012
01-MH-SK013
01-MH-SK014
01-MH-SK015
01-MP-SK006

<b>01-MP-SK007</b>
<b>01-MP-SK008</b>
<b>01-MP-SK009</b>
<b>01-MP-SK010</b>
<b>01-MP-SK011</b>
<b>01-MV-SK006</b>
<b>01-MV-SK007</b>
<b>01-MV-SK008</b>
<b>01-MV-SK009</b>
<b>02-MH-SK001</b>
<b>02-MP-SK001</b>
<b>02-MP-SK002</b>
<b>02-MV-SK001</b>
<b>03-MP-SK001</b>
<b>05-MC-SK001</b>
<b>05-MDH-SK001</b>
<b>05-MDP-SK001</b>
<b>05-MDV-SK001</b>
<b>05-MH-SK001</b>
<b>05-MP-SK002</b>
<b>05-MV-SK001</b>
<b>05-MV-SK002</b>
<b>05-MV-SK003</b>
<b>06-MH-SK004</b>
<b>06-MH-SK005</b>
<b>06-MH-SK006</b>
<b>08-MP-SK001</b>

END

## **PART 1 GENERAL**

### **1.1 RELATED REQUIREMENTS**

- .1 Section 01 33 00 – Submittal Procedures.
- .2 Section 01 91 13 - General Commissioning Requirements.
- .3 Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .4 Section 23 05 00 – Common Work Results – Mechanical.
- .5 Section 23 05 01 – Facility Mechanical Commissioning – General.
- .6 Section 23 05 02 – Facility Commissioning – Mechanical.

### **1.2 REFERENCE STANDARDS**

- .1 American National Standards Institute/American Society of Heating, Refrigeration and Air-Conditioning Engineers (ANSI/ASHRAE)
  - .1 ANSI/ASHRAE 52.2-2007, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particulate Size.
  - .2 ANSI/ASHRAE 127-2007, Method of Testing for Rating Computer and Data Processing Room Unitary Air-Conditioners.
- .2 ASTM International (ASTM)
  - .1 ASTM C547-11, Specification for Mineral Fiber Pipe Insulation.
- .3 CSA Group (CSA)
  - .1 CSA B52-05(R2009), Mechanical Refrigeration Code.
  - .2 CAN/CSA-C656-05(R2010), Performance Standard for Single Package Central Air-Conditioners and Heat Pumps.

### **1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for air conditioning components and accessories and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
  - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Nova Scotia.
  - .2 Indicate on drawings:
    - .1 Major components and accessories including sound power levels of units.
    - .2 Type of refrigerant used.

### **1.4 MAINTENANCE MATERIALS SPECIAL TOOLS AND SPARE PARTS**

- .1 Provide maintenance data for incorporation into manual specified in Section 01 33 00 -

Submittals.

- .2 Maintenance materials to include:
  - .1 Spare parts for one (1) year of operation.

## **1.5 CLOSEOUT SUBMITTALS**

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for air conditioning components for incorporation into manual.

## **PART 2 PRODUCTS**

### **2.1 GENERAL**

- .1 The existing electronics room in the Telecom/MCTS Building contains three (3) 5 ton DX cooling Liebert Challenger Units, complete with Humidification and reheat. Three outdoor condensing units serve the indoor units.
- .2 Provide dismantling, relocation and reinstallation of the CRAC units in their entirety (plenums, drain lines, and cold water lines, controls, accessories, etc.) to new locations within Level 100 as per new work plans.
- .3 Provide new components unable to be reused.
- .4 Dismantling, relocating and reassembly shall be done in accordance with manufacturer instructions. Only one unit can be taken offline and relocated at a time, and the other two units shall remain in operation.
- .5 Performance:
  - .1 Capacity:
    - .1 Airflow: 1321 L/s
    - .2 Total Cooling: 17.8 kW
    - .3 Humidification: 5.0 kg/hr / 4.8 kW
    - .4 Electric Reheat: 15.0 kW 2-stage
    - .5 Filters: 100mm High Efficiency Merv 11
    - .6 Refrigerant: R-407C
- .6 Electrical
  - .1 Available electrical power: 120V, 1 Phase 60 Hz and 600V/3/60.
  - .2 Controls: 120V, 1 phase, 60 Hz. Provide in separate conduit from power wiring.
  - .3 Electrical Components: CSA approved.
- .7 Controls: Provide monitoring points as per controls drawings.
- .8 Trial Usage:
  - .1 Owner may use CRAC units for test purposes prior to acceptance and commencement of warranty period.
  - .2 Supply labour, materials and instruments required for tests.

### **2.2 SERVICES OF FACTORY REPRESENTATIVE**

- .1 Contractor shall arrange to have services of the manufacturer's trained representative for CRAC units at the time of start-up.
- .2 Contractor shall check out the entire installation, including condensing unit and controls.
- .3 A factory trained technician shall start the CRAC units into operation and shall make all necessary test and adjustments to have said equipment running to their and to the Departmental Representative's satisfaction.
- .4 Manufacturer's representative shall conduct demonstration and commissioning tests and submit a written report. Notify Departmental Representative with a letter stating that the installation has been checked and adjusted and is ready to turn over to the Owner. Guarantee period shall start upon receipt of the report.

## **PART 3 EXECUTION**

### **3.1 INSTALLATION**

- .1 Dismantling, relocation and reassemble on site shall be by Mechanical Contractor. Work shall be phase to maintain two CRAC units operational at all times.
- .1 Make all required piping, ductwork, and electrical connections to all inlets and outlets recommended by CRAC unit manufacturer. Manufacturer to certify installation.
- .2 Run drain line from condensate pump to terminate over nearest floor drain.
- .3 Maintain clearances as indicated or if not indicated, as recommended by manufacturer for operation, servicing and maintenance without disruption of operation of any other equipment/system. Do not deviate from required service and maintenance clearances.
- .4 Mount unit level. Provide a neoprene pad for vibration isolation under each unit.
- .5 Provide Field wiring of all CRAC controls and sensors as required.
- .6 Provide pressure testing per manufacturer's recommendations.
- .7 Provide a low noise package for each compressor as per manufacturer's recommendations. Sound insulation shall reduce the level of sound emitted from the compressor. The package shall consist of a 9.5 mm closed cell polymeric 72 - 136 kg/m<sup>3</sup> density compressor sound jacket that encloses the compressor. Additional 12 mm, closed cell polymeric 48 - 128 kg/m<sup>3</sup> density sound deadening material shall be affixed to the underside of the Superior Service Access Panel located above the compressor and attached to the inner side of the compressor compartment panels that face the hot and cold aisles. All sound deadening material shall be non-shedding and located outside the air stream.
- .8 Provide new high efficiency Merv 11, 4" filters.

### **3.2 EQUIPMENT PREPARATION**

- .1 Provide services of manufacturer's field engineer to set and adjust equipment for operation as specified.

### **3.3 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Waste Management: separate waste materials for recycling reuse in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

### **3.4 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by computer room air conditioning installation.

### **3.2 COMMISSIONING**

- .1 Building Commissioning is a requirement of this project in order to comply with sections of Division 01 – General Requirements. A Commissioning Agent has been engaged and will provide all systems commissioning in conjunction with all trade contractors. The Commission Agent will provide a Commissioning Plan with commissioning start-up and test procedure sheets to be performed and completed by the various trade contractors.
- .2 Manufacturers representative to provide the following:
  - .1 Start up and adjustment services.
  - .2 Commissioning of CRAC control sequencing.
  - .3 Commissioning and Certification of installation.
  - .4 Carry out on-site performance verification tests.
  - .5 Demonstration of all safety devices in presence of owner's representative.
  - .6 Provide one (1) day, on-site training session to staff to demonstrate operation and maintenance.
- .3 Provide Departmental Representative at least 48 hours notice prior to inspections, tests, and demonstrations. Submit written report of inspections and test results. Report shall include static verification, pre-functional testing, and functional testing documentation.

END

*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 26 05 00 – COMMON WORK RESULTS ELECTRICAL**

- .1      Revise colour coding table included under item 2.7 as follows:
  - .1      Wiring up to 600V to be Orange.
  - .2      Telephone to be Blue/White.
  - .3      Mechanical controls to be Green.

**PART 2**      **DRAWING REFERENCE**

**Item 2.1**      **DRAWING 01-EP-101 ELECTRICAL POWER CABOT WEST LEVEL 100 & 200 NEW WORK**

- .1      Supply and install three (3) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Unit Heaters, UH-2, located in Carpentry Shop 1101D, Storage 1101B and Mechanical Area 1101A. Circuit from panelboard P1A-10 and provide a TOL switch mounted adjacent each unit.
- .2      Supply and install two (2) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Cabinet Heaters, labelled CH1-17 and CH1-18 located in Entry 2001 and Entry Vestibule 1, respectively. Circuit from panelboard P1A-12 and provide a TOL switch flush mounted in wall above each unit.
- .3      Revise Exhaust Fan, EF1-11, located in Boardroom 2029 to be EF1-16, circuited P1A-3 and located adjacent VAV1-2.13.
- .4      Revise Exhaust Fan, EF1-11, located in Male Washroom 2020 to be circuited from P1A-5 and located adjacent grid line intersection 9y & 3x.
- .5      Supply and install one (1) additional 15A, 120V direct connection to Pre-Action System, PA01-1, located in Mechanical Room 1101A for air compressor circuit. Circuit from new 1P, 15A breaker, panel P1A-12, 2#12 AWG + #12Cu. bond, 21mmC.
- .6      Supply and install three (3) additional fire alarm connections to Pre-Action System PA01-1, located in Mechanical Room 1101A c/w addressable interface relays for the following functions:
  - .1      Alarm Signal.
  - .2      Trouble Signal.
  - .3      Detection Loop Signal.
- .7      Revise location of humidifier HUM1-1 in Mechanical Room 1101A to be adjacent grid line intersection 6x & 19y.

**Item 2.2**      **DRAWING 01-EP-102 ELECTRICAL POWER CABOT WEST LEVEL 300 NEW WORK**

- .1      Supply and install one (1) direct connection (2#12 RW90 + #12Cu. bond, 21mmC) to Unit Heater, UH-3, located in Mechanical Mezzanine 3110C. Circuit from panelboard PID-13 and provide a TOL switch mounted adjacent the unit.



- .2 Supply and install one (1) direct connection (2#12 RW90 + #12Cu. bond, 21mmC) to Cabinet Heater, CH1-20, located in Stair 1. Circuit from panelboard P1D-13 and provide a TOL switch flush mounted above unit.
- .3 Revise location of Humidifier, HUM1-7, located in Mechanical Mezzanine 3110C to be adjacent grid line 7y, between grid lines 3x & 4x.

**Item 2.3      DRAWING 01-EP-103 ELECTRICAL POWER CABOT CENTRAL LEVEL  
100 NEW WORK**

- .1 Supply and install two (2) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Cabinet Heaters, CH1-8 and CH1-7, located in Stair 1 and Stair 8, respectively. Circuit from panelboard P1B-16 and provide a TOL switch flush mounted above each unit.
- .2 Supply and install eight (8) 15A, 120V direct connections to VAV boxes located throughout simulator rooms as indicated below. Circuit new VAV boxes from new 1P, 15A breaker P1B-38 and provide a toggle switch adjacent each unit for local disconnecting means:
  - .1 VAV1-1.13 Meeting Room 1201 (adjacent Simulator 1201A).
  - .2 VAV1-1.14 Meeting Room 1201 (adjacent Simulator 1203F).
  - .3 VAV1-1.15 Corridor 1203 (adjacent Simulator 1203F).
  - .4 VAV1-1.16 Corridor 1203 (adjacent Simulator 1203B).
  - .5 VAV1-1.17 Corridor 1203 (adjacent Simulator 1203E).
  - .6 VAV1-1.18 Simulator 1203A (centred in room).
  - .7 VAV1-1.19 Simulator 1205C (adjacent Corridor 1205).
  - .8 VAV1-1.20 Corridor 1205 (adjacent Simulator 1205D).
- .3 Supply and install one (1) 40A, 208V, single-phase direct connection (3#10 AWG + #10Cu. bond, 21mmC) to new condensing unit CU1-1 located exterior Simulator Room 1205. Circuit from new 3P, 40A breaker in panelboard P1B-40,42 and provide one (1) 60A, 208V, single-phase non-fusible disconnect switch mounted adjacent unit for local disconnecting means.

**Item 2.4      DRAWING 01-EP-104 ELECTRICAL POWER CABOT CENTRAL LEVEL  
200 NEW WORK**

- .1 Supply and install two (2) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Cabinet Heaters, CH1-18 and CH1-19, located in Entry Vestibule 1 and Entry Vestibule 2, respectively. Circuit from panelboard P1B-36 and provide a TOL switch flush mounted above each unit.

**Item 2.5      DRAWING 01-EP-105 ELECTRICAL POWER CABOT CENTRAL LEVEL  
300 NEW WORK**

- .1 Supply and install one (1) direct connection (2#12 RW90 + #12Cu. bond, 21mmC) to Cabinet Heater, CH1-20, located in Stair 1. Circuit from panelboard P1D-13 and provide a TOL switch flush mounted above unit.

- .2 Supply and install one (1) direct connection (2#12 RW90 + #12Cu. bond, 21mmC) to Unit Heater, UH-2, located in Mechanical Room 3116. Circuit from panelboard P1D-13 and provide a TOL switch mounted adjacent unit.
- .3 Revise location of Humidifier HUM1-8, located in Mechanical Room 3116 to be adjacent grid lines 6y & 12x.

**Item 2.6      DRAWING 01-EP-106 ELECTRICAL POWER CABOT CENTRAL LEVEL 400 NEW WORK**

- .1 Supply and install one (1) direct connection (2#12 RW90 + #12Cu. bond, 21mmC) to Unit Heater, UH-2, located in Mechanical Room 4116. Circuit from panelboard P1D-15 and provide a TOL switch mounted adjacent unit.
- .2 Supply and install one (1) additional 15A, 120V direct connection to Pre-Action System, PA01-4, located in Mechanical Room 4114 for air compressor circuit. Circuit from new 1P, 15A breaker, panel P1D-17, 2#12 AWG + #12Cu. bond, 21mmC.
- .3 Supply and install three (3) additional fire alarm connections to Pre-Action System PA01-1, located in Mechanical Room 4114 c/w addressable interface relays for the following functions:
  - .1 Alarm Signal.
  - .2 Trouble Signal.
  - .3 Detection Loop Signal.
- .4 Supply and install one (1) 15A, 208V, single-phase direct connection to ceiling mounted evaporator unit CC1-4.01 located in Server Room 4115. Provide 2#12 AWG + #12Cu. bond, 21mmC from exterior condensing unit CU1-1 to power indoor evaporator unit and provide a toggle switch mounted adjacent unit for local disconnecting means.

**Item 2.7      DRAWING 01-EP-107 ELECTRICAL POWER CABOT EAST LEVEL 100 NEW WORK**

- .1 Supply and install five (5) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Cabinet Heaters, CH1-6, CH1-5, CH1-9, CH1-2 and CH1-1, located in Stair 2, Stair 9 (note CH1-5 not previously shown on plans), East Tunnel, Stair 3 and Dishwash 1706B, respectively. Circuit from panelboard P1C-66 and provide a TOL switch flush mounted above each unit.
- .2 Supply and install three (3) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Unit Heaters, UH-2, located in Mechanical Room 1403F, Mechanical Room 1403C (note unit heater symbol shown not previously labelled) and Electrical Room 1403D. Circuit from panelboard P1C-68 and provide a TOL switch mounted adjacent each unit.
- .3 Supply and install one (1) additional 15A, 120V direct connection to Pre-Action System, PA01-2, located in Storage 1504D for air compressor circuit. Circuit from new 1P, 15A breaker, panel P1C-70, 2#12 AWG + #12Cu. bond, 21mmC.

- .4 Supply and install three (3) additional fire alarm connections to Pre-Acton System PA01-2, located in Storage 1504D c/w addressable interface relays for the following functions:
  - .1 Alarm Signal.
  - .2 Trouble Signal.
  - .3 Detection Loop Signal.

**Item 2.8      DRAWING 01-EP-108 ELECTRICAL POWER CABOT EAST LEVEL 200  
NEW WORK**

- .1 Supply and one (1) direct connection (2#12 RW90 + #12Cu. bond, 21mmC) to Cabinet Heater, CH1-20, located in Entry Vestibule #3. Circuit from panelboard P1C-68 and provide a TOL switch flush mounted above unit.
- .2 Supply and one (1) direct connection (2#12 RW90 + #12Cu. bond, 21mmC) to Unit Heater, UH-1, located in Mechanical Room 2802C. Circuit from panelboard P1C-68 and provide a TOL switch flush mounted above unit.
- .3 Supply and install one (1) 15A, 208V, single-phase direct connection (2#12 AWG + #12Cu. bond, 21mmC) to new Wall Mounted Fan Coil, WM1-1.01 located in Garbage/Recycling 1401. Circuit from panelboard P1C-72 and provide a toggle switch adjacent unit for local disconnecting means.

**Item 2.9      DRAWING 01-EP-109 ELECTRICAL POWER CABOT EAST LEVEL 300  
NEW WORK**

- .1 Supply and install two (2) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Cabinet Heaters, CH1-21 and CH1-22, located in Stair 2 and Stair 3. Circuit from panelboard P1E-11 and provide a TOL switch flush mounted above each unit.
- .2 Supply and install two (2) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Unit Heaters, UH-2, located in Mechanical Room 3152 and Mechanical Room 3148. Circuit from panelboard P1E-11 and provide a TOL switch mounted adjacent each unit.
- .3 Delete one (1) disconnect switch located in Mechanical Room 3148 adjacent 100A splitter.
- .4 Delete one (1) 30kVA dry-type transformer located in Mechanical Room 3148.
- .5 Supply and install one (1) additional 15A, 120V direct connection to Pre-Action System, PA01-3, located in Storage 3138 for air compressor circuit. Circuit from new 1P, 15A breaker, panel P1E-13, 2#12 AWG + #12Cu. bond, 21mmC.
- .6 Supply and install three (3) additional fire alarm connections to Pre-Acton System PA01-3, located in Storage 3138 c/w addressable interface relays for the following functions:
  - .1 Alarm Signal.
  - .2 Trouble Signal.
  - .3 Detection Loop Signal.

- .7 Revise location of Humidifier, HUM1-9, located in Mechanical Room 3152 to be adjacent Panelboard P1E.

**Item 2.10 DRAWING 01-EP-110 ELECTRICAL POWER CABOT EAST LEVEL 400 NEW WORK**

- .1 Supply and install two (2) direct connections (2#12 RW90 + #12Cu. bond, 21mmC) to Unit Heaters, UH-1 and UH-2, located in Mechanical Room 4132 and Mechanical Room 4150A, respectively. Circuit from panelboard P1E-13 and provide a TOL switch mounted adjacent each unit.

**Item 2.11 DRAWING 01-E-602 ELECTRICAL CABOT SCHEDULES**

- .1 Revise breaker serving pump P1-1A to be 3P, 40A (motor size increased to 11.19kW).
- .2 Revise breaker serving pump P1-1B to be 3P, 40A (motor size increased to 11.19kW).
- .3 Revise breaker serving pump P1-3A to be 3P, 25A (motor size decreased to 7.46kW).
- .4 Revise breaker serving pump P1-3B to be 3P, 25A (motor size decreased to 7.46kW).
- .5 Revise breaker and feeder serving pump P1-4A to be 3P, 60A and 3#10 + #10 Cu. bond, 21mmC, respectively (motor size increased to 18.65kW).
- .6 Revise breaker and feeder serving pump P1-4B to be 3P, 60A and 3#10 + #10 Cu. bond, 21mmC, respectively (motor size increased to 18.65kW).
- .7 Revise breaker serving pump P1-5A to be 3P, 15A (motor size decreased to 5.59kW).
- .8 Revise breaker serving pump P1-5B to be 3P, 15A (motor size decreased to 5.59kW).
- .9 Provide combination magnetic starters c/w control transformer (control transformer not required for 120V pumps), 2 N.O. & 2 N.C. auxiliary contacts, hand-off-auto selector switch and LED running light for the following pumps:
  - .1 P1-9.
  - .2 P1-10.
  - .3 P1-11.
  - .4 P1-12.
- .10 Supply and install one (1) 15A, 600V, 3-phase direct connection (3#12 AWG + #12Cu. bond, 21mmC) to new pump P1-14A located in Cabot Boiler Room 1403C. Circuit from new 3P, 15A breaker in panel 'P1'. Pumps shall be controlled by variable speed drive supplied and installed by mechanical and wired by electrical.
- .11 Supply and install one (1) 15A, 600V, 3-phase, direct connection (3#12 AWG + #12Cu. bond, 21mmC) to new pump P1-14B located in Cabot Boiler Room 1403C. Circuit from new 3P, 15A breaker in panel 'P1'. Pumps shall be controlled by variable speed drive supplied and installed by mechanical and wired by electrical.

**Item 2.12 DRAWING 01-E-603 ELECTRICAL CABOT SCHEDULES & DETAILS**

- .1 Revise voltage and phase indicated for VAV1-4.09 and VAV1-4.10 to be 120V, single-phase.
- .2 Delete reference to full load amps (FLA) indicated in new VAV box schedule.

**Item 2.13      DRAWING 01-E-605 ELECTRICAL CABOT SCHEDULES AND DETAILS**

- .1 Revise breakers serving condensing units fed from panelboard P1C as indicated below:
  - .1 CND1-1 to be 2P, 15A.
  - .2 CND1-2 to be 2P, 40A.
  - .3 CND1-3 to be 2P, 15A.
  - .4 CND1-4 to be 2P, 15A.
  - .5 CND1-5 to be 2P, 30A.
- .2 Supply and install one (1) 30A, 208V, single-phase, NEMA 1 non-fused disconnect switch mounted adjacent each condensing unit and evaporator unit, CND1-1 through CND1-5 and EVAP1-1 through EVAP1-5 (ten (10) total).

**Item 2.14      DRAWING 02-EP-101 ELECTRICAL POWER ARCTIC LEVEL 100 & 200 NEW WORK**

- .1 Revise location of Fan Coil, FC2-1.02, located in Corridor to be located in Galley Storage.

**Item 2.15      DRAWING 03-EP-103 ELECTRICAL POWER GREAT LAKES LEVEL 100 & 200 NEW WORK**

- .1 Revise label on Pump, P3-2, located in Mechanical Room D112 to be P3-2A.
- .2 Supply and install one (1) direct connection to Condensate Pump, P-COND2, adjacent VFC3-2.03. Circuit from panelboard P3A-23,25.

**Item 2.16      DRAWING 03-EP-602 ELECTRICAL PACIFIC/GREAT LAKES SCHEDULES & DETAILS**

- .1 All references to Great Lakes in detail 2 shall read Pacific.
- .2 All references to Pacific in detail 3 shall read Great Lakes.
- .3 Supply and install one (1) 15A, 600V, 3-phase direct connection (3#12 AWG + #12Cu. bond, 21mmC) to new pump P3-1C, located in Mechanical Room D112. Pump shall be controlled by variable speed drive, supplied and installed by mechanical and wired by electrical.
- .4 Supply and install one (1) 15A, 600V, 3-phase, direct connection (3#12 AWG + #12Cu. bond, 21mmC) to new pump P3-3, located in Mechanical Room D112. Pump shall be controlled by variable speed drive, supplied and installed by mechanical and wired by electrical.
- .5 Supply and install one (1) 15A, 600V, 3-phase, direct connection (3#12 AWG + #12Cu. bond, 21mmC) to new pump P3-4, located in Mechanical

Room D112. Pump shall be controlled by variable speed drive supplied and installed by mechanical and wired by electrical.

**Item 2.17      DRAWING 04-EP-103 ELECTRICAL POWER MIRAMICHI LEVEL 100 & 200 NEW WORK**

- .1      Revise drawing reference note 4, adjacent VFC4-1.01 to be note 2.
- .2      Add drawing reference note 1 to drawing adjacent FC4-1.06.

**Item 2.18      DRAWING 05-EP-101 ELECTRICAL POWER TELC/MCTS 100 & 200 NEW WORK**

- .1      Supply and install two (2) additional 15A, 120V direct connections to Pre-Action System, PA05-1, located in Telecom Workstations CC100 for air compressor circuit and control circuit. Circuit from new 1P, 15A breakers, panel P5B-16 & 18, 2#12 AWG + #12Cu. bond, 21mmC.
- .2      Supply and install three (3) additional fire alarm connections to Pre-Action System PA05-1, located in Telecom Workstations CC100 c/w addressable interface relays for the following functions:
  - .1      Alarm Signal.
  - .2      Trouble Signal.
  - .3      Detection Loop Signal.
- .3      Existing indoor floor standing Liebert A/C units ('CRAC-2e' & 'CRAC-3e') located in MCTS Server Room CC108, adjacent grid line intersection 2 & Cc shall be re-located as follows:
  - .1      CRAC-2e re-located to Storage Room CC103. Extend existing 3#10 AWG + #10Cu. bond, 21mmC to new location.
  - .2      CRAC-3e re-located to MCTS Server Room CC108 to wall common Workshop CC107 (parallel grid line 1). Extend existing 3#10 AWG + #10Cu. bond, 21mmC to suit new location.

**Item 2.19      DRAWING 05-EP-102 ELECTRICAL POWER TELC/MCTS LEVEL 300 & ATTIC NEW WORK**

- .1      Revise attic drawing note 4 to reference a 30A disconnect switch.
- .2      Supply and install two (2) additional 15A, 120V direct connections to Pre-Action System, PA05-2, located in MCTS Radio Operations CC302 for air compressor circuit and control circuit. Circuit from new 1P, 15A breakers, panel P5B-20 & 22, 2#12 AWG + #12Cu. bond, 21mmC.
- .3      Supply and install three (3) additional fire alarm connections to Pre-Action System PA05-2, located in MCTS Radio Operations CC302 c/w addressable interface relays for the following functions:
  - .1      Alarm Signal.
  - .2      Trouble Signal.
  - .3      Detection Loop Signal.

- .4 Supply and install one (1) 15A, 120V, direct connection to trap primer valve located in Corridor outside Women's Washroom CC316. Circuit from panel P5B-24, 2#12 AWG + #12Cu. bond, 21mmC.

**Item 2.20 DRAWING 05-EP-104 ELECTRICAL POWER MACKENZIE LEVEL 300 & ATTIC NEW WORK**

- .1 Delete one (1) 60A disconnect switch located adjacent 100A splitter.

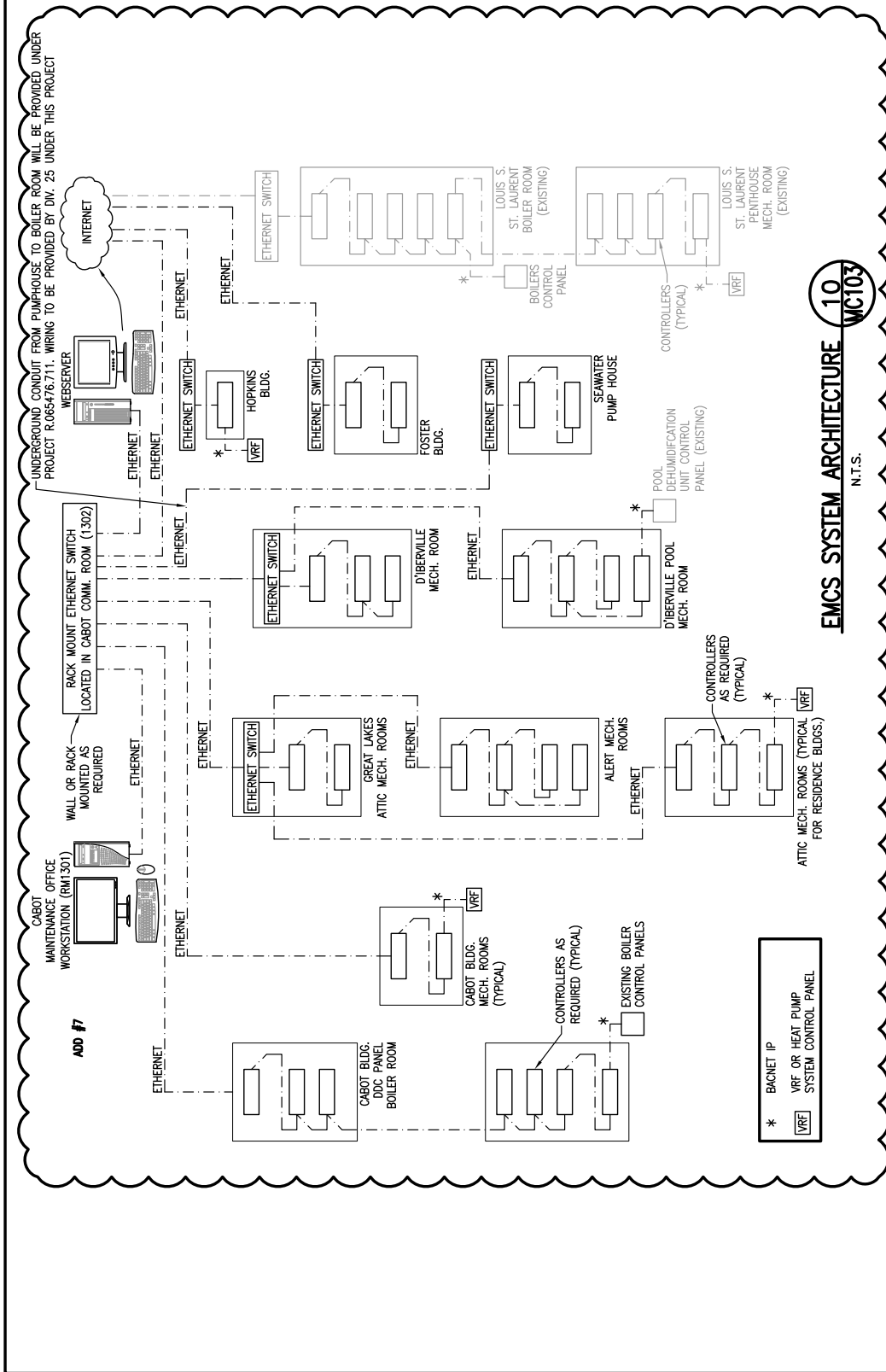
**Item 2.21 DRAWING 06-EP-101 ELECTRICAL POWER ALERT LEVEL 100, 200 & 300 NEW WORK**

- .1 Supply and install one (1) additional 15A, 120V direct connection to Pre-Action System, PA06-1, located in Stock/Storage FF116 for air compressor circuit. Circuit from new 1P, 15A breaker, panel P6A-19, 2#12 AWG + #12Cu. bond, 21mmC.
- .2 Supply and install three (3) additional fire alarm connections to Pre-Action System PA06-1, located in Stock/Storage FF116 c/w addressable interface relays for the following functions:
  - .1 Alarm Signal.
  - .2 Trouble Signal.
  - .3 Detection Loop Signal.

**Item 2.22 DRAWING 06-E-601 ELECTRICAL ALERT SCHEDULES & DETAILS**


- .1 Supply and install six (6) 15A, 600V, 3-phase direct connections (3#12 AWG + #12Cu. bond, 21mmC) to the pumps indicated below. Each pump shall be controlled by a variable speed drive supplied and installed by mechanical, wired by electrical.
  - .1 P6-1A located in Mechanical Room FF111A.
  - .2 P6-1B located in Mechanical Room FF111A.
  - .3 P6-1C located in Mechanical Room FF111A.
  - .4 P6-2A located in Mechanical Room FF111A.
  - .5 P6-2B located in Mechanical Room FF111A.
  - .6 P6-3 located in Mechanical Room FF111A.

END

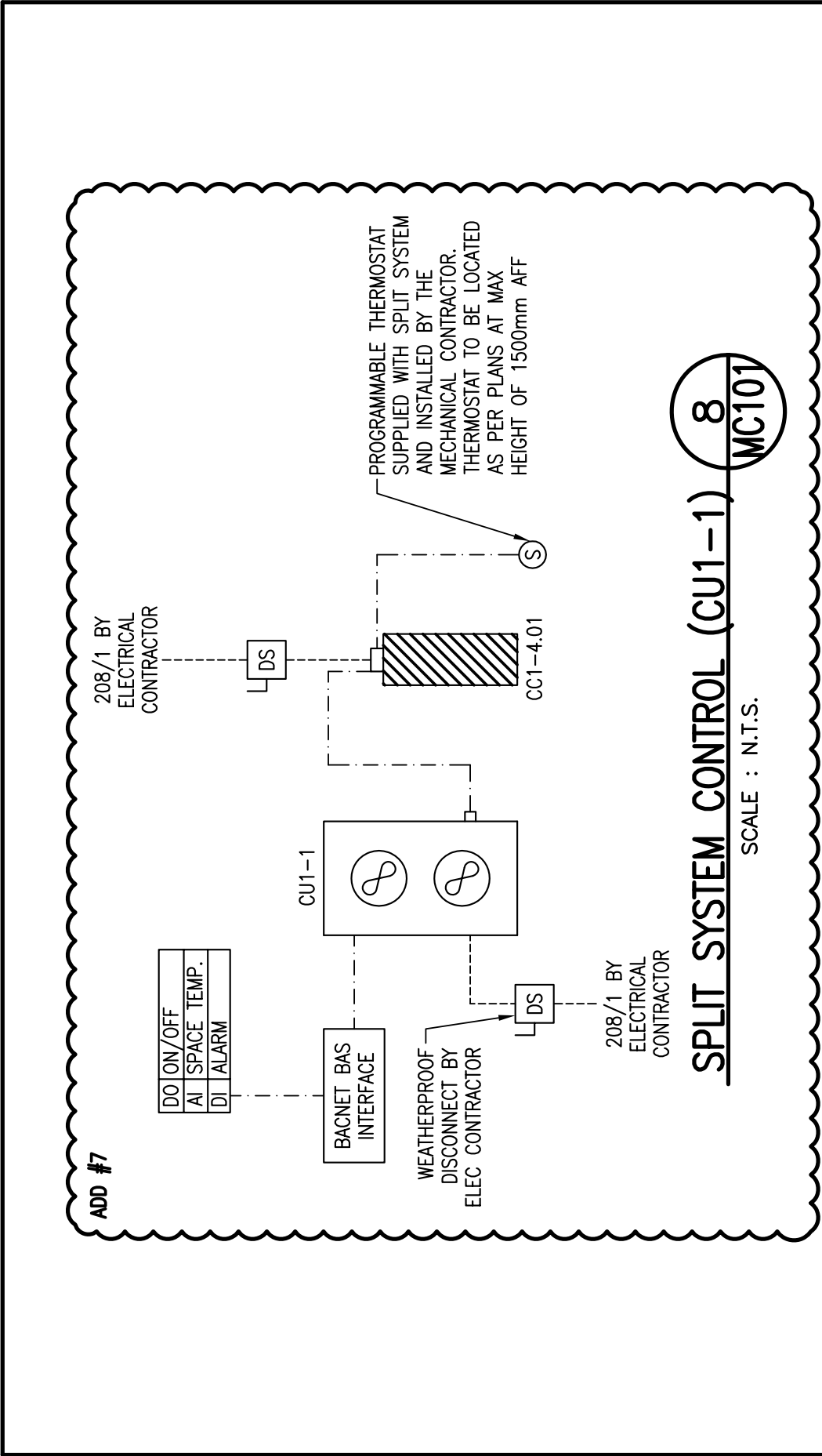


Reference Drawing: 01-MC-103

Addendum #: 7



 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada	Submission 08/10/18 Administrateur de projets TPSCC	project CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project EMCS SYSTEM ARCHITECTURE	Titre du dessin EMCS SYSTEM ARCHITECTURE	designed ACCJC	concu date 08/10/18
		Tender Joan Muise PWSC Project Manager	drawing no. RJC 05/10/18	no. du projet R.065476.700	drawing no. RJC 05/10/18	no. du dessin 01-MC-SK001



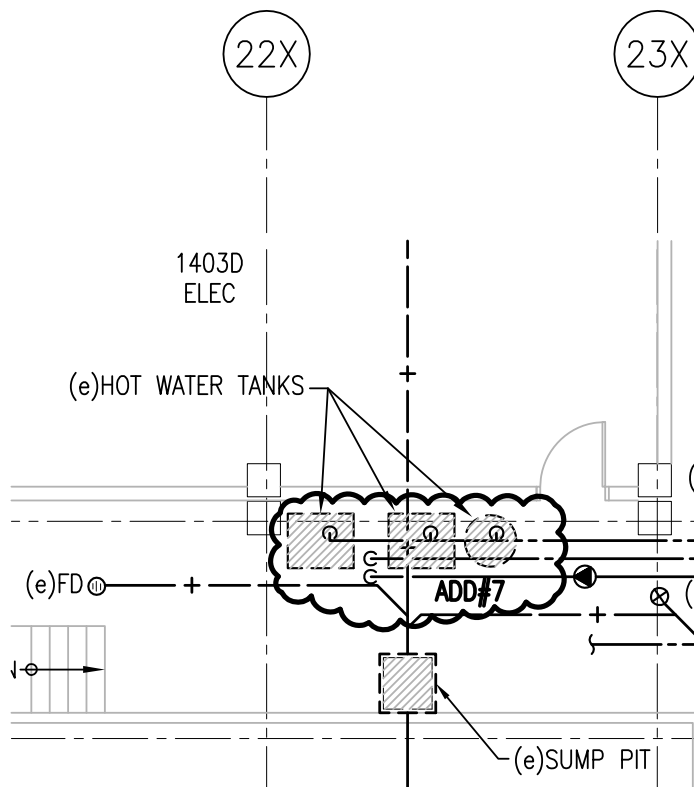


Reference Drawing: 01-MP-106

Addendum #: 7


 Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	Tender	Joan Muise PWGSC Project Manager	08/03/18	Submission	project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project	Drawing title	Titre du dessin	designed	conçu	date
											MJM		08/03/18
											drawn	dessiné	date
 PWGSC Project Manager	Administrateur de projets TPSGC	Tender	Joan Muise	08/03/18	Submission	project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project	Drawing title	Titre du dessin	MAC		08/03/18
											approved	approved	date
											RJK		08/03/18
						project number	no. du projet	drawing no.		no. du dessin			
						R.065476.700		01—MC—SK002					





Reference Drawing: 01-MDP-107

Addendum #: 7


	Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	Drawing title		Titre du dessin		designed MJM	conçu	date 08/10/18		
	project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	projet	1403C BOILER EXIST. HOT WATER TANK CONNECTIONS			drawn SNH	dessiné	date 08/10/18		
approved DAM							approuvé	date 08/10/18			
Tender							Soumission				
Joan Muise							08/10/18				
		PWGSC Project Manager		Administrateur de projets TPSGC							
		project number		no. du projet		drawing no.		no. du dessin			
		R.065476.700				01-MDP-SK001					

# 01 – CABOT BUILDING – PUMP SCHEDULE

MARK	LOCATION	APPLICATION	PUMP TYPE	FLOW RATE (L/s)	HEAD (kPa)	MOTOR (kW)	ELECT. DATA	MOTOR RPM	STARTER	STARTER LOCATION	CONTROLS	VIBRATION ISOLATORS		COMMENTS
												TYPE	STATIC DEF.	
P1-1A	CABOT MECH ROOM 1403F	COOLING PRIMARY LOOP	VERTICAL INLINE	60.5	120	11.19	575/3	1200	VSD	PUMP MOUNTED	EMCS	NSN	-	PUMPS ARE SIZED FOR FUTURE HEAT PUMP. PUMPS ARE DUPLEX, ONE PUMP IS STANDBY.
P1-1B														
P1-2A	CABOT MECH ROOM 1403F	HEAT PUMP COOLING (EVAP)	VERTICAL INLINE	60.5	60	11.19	575/3	1800	VSD	PUMP MOUNTED	EMCS	NSN	-	PUMPS ARE SIZED FOR FUTURE HEAT PUMP. PUMPS ARE DUPLEX, ONE PUMP IS STANDBY.
P1-2B														
P1-3A	CABOT BOILER ROOM 1403C	HEAT PUMP HEATING (COND)	VERTICAL INLINE	70.3	60	7.46	575/3	1200	VSD	PUMP MOUNTED	EMCS	NSN	-	PUMPS ARE SIZED FOR FUTURE HEAT PUMP. PUMPS ARE DUPLEX, ONE PUMP IS STANDBY.
P1-3B														
P1-4A	CABOT BOILER ROOM 1403C	HWS PRIMARY/CAMPUS LOOP	VERTICAL INLINE	70.3	200	18.65	575/3	1800	VSD	PUMP MOUNTED	EMCS	NSN	-	PUMPS ARE SIZED FOR FUTURE HEAT PUMP. PUMPS ARE DUPLEX, ONE PUMP IS STANDBY.
P1-4B														
P1-5A	CABOT BOILER ROOM 1403C	SECONDARY HTG. CABOT BUILDING	VERTICAL INLINE	15.8	200	5.59	575/3	1800	VSD	PUMP MOUNTED	EMCS	NSN	-	PUMPS OPERATE TOGETHER TO ACHIEVE DESIGN FLOW RATE OF 31.6L/s @ 200kPa
P1-5B														
P1-6	CABOT BOILER ROOM 1403C	COOLING CAMPUS LOOP	VERTICAL INLINE	29.0	230	11.19	575/3	1800	VSD	PUMP MOUNTED	EMCS	NSN	-	-
P1-7	CABOT BOILER ROOM 1403C	COOLING CAMPUS LOOP	VERTICAL INLINE	29.0	230	11.19	575/3	1800	VSD	PUMP MOUNTED	EMCS	NSN	-	PUMP IS STANDBY FOR BOTH P1-6 & P1-8
P1-8	CABOT BOILER ROOM 1403C	SECONDARY COOL'g CABOT BUILDING	VERTICAL INLINE	31.5	150	7.46	575/3	1800	VSD	PUMP MOUNTED	EMCS	NSN	-	-
P1-9	CABOT BOILER ROOM 1403C	CABOT DOM. HOT WATER	INLINE	1.8	50	0.19	120/1	1800	MAGNETIC	REFER TO DIV. 26 DWGS	EMCS, INDIR. DOM. WATER HTG.	-	-	-
P1-10	CABOT BOILER ROOM 1403C	CABOT DOM. HOT WATER	INLINE	1.8	50	0.19	120/1	1800	MAGNETIC	REFER TO DIV. 26 DWGS	EMCS, INDIR. DOM. WATER HTG.	-	-	-
P1-11	CABOT BOILER ROOM 1403C	BOILER B1-1	VERTICAL INLINE	15.8	45	1.50	575/3	1200	MAGNETIC	REFER TO DIV. 26 DWGS	EMCS, BOILER B1-1	NSN	-	-
P1-12	CABOT BOILER ROOM 1403C	BOILER B1-2	VERTICAL INLINE	21.5	45	1.50	575/3	1200	MAGNETIC	REFER TO DIV. 26 DWGS	EMCS, BOILER B1-2	NSN	-	-
P1-13A	CABOT BOILER ROOM 1403C	GLYCOL HEATING CABOT BUILDING	VERTICAL INLINE	9.5	200	3.73	575/3	1800	VSD	PUMP MOUNTED	EMCS	NSN	-	PUMPS OPERATE TOGETHER TO ACHIEVE DESIGN FLOW RATE OF 19.0L/s @ 200kPa
P1-13B														
P1-14A	CABOT BOILER ROOM 1403C	HTWS PRIMARY	VERTICAL INLINE	13.9	200	5.59	575/3	1800	VSD	PUMP MOUNTED	EMCS	NSN	-	PUMPS OPERATE TOGETHER TO ACHIEVE DESIGN FLOW RATE OF 27.8L/s @ 200kPa
P1-14B														

Reference Drawing: 01-MH-602

Appendum #: 7

 Public Works and Government Services Canada Tender	Submission Joan Muise PWSC Project Manager	project CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project 01 – CABOT BUILDING PUMP SCHEDULE	Drawing title 01 – CABOT BUILDING PUMP SCHEDULE	designed RJK	date 08/10/18
					cross RAFLH	date 08/10/18
					approved RJK	date 08/10/18
					drawing no. 01 – MH – SK008	no. du dessin 01 – MH – SK008


project number R.065476.700

E-DRM/GSD-E 536447

01 – CABOT – EXPANSION TANK SCHEDULE								ADD #7
MARK	SYSTEM	STYLE	VOLUME (L)	ACCEPT. (L)	OPERATING PRESSURE (kPa)	DIMENSIONS		REMARKS
						HEIGHT (mm)	DIAMETER (mm)	
ET1 – 1A	HWS SYSTEM	VERTICAL FULL ACCEPTANCE BLADDER – TYPE	1200	1200	1200	2181	762	–
ET1 – 1B	HWS SYSTEM	VERTICAL FULL ACCEPTANCE BLADDER – TYPE	800	800	1200	2076	610	–
ET1 – 2	CHILLED WATER SYSTEM	VERTICAL DIAPHRAGM – TYPE	127	42.8	1033	1143	350	–
ET1 – 3	PRIMARY COOLING LOOP	VERTICAL DIAPHRAGM – TYPE	82	42.8	1033	762	350	–
ET1 – 4	GLYCOL HTG. LOOP	VERTICAL FULL ACCEPTANCE BLADDER – TYPE	800	800	1200	2076	610	–

Reference Drawing: 01 – MH – 602


Addendum #: 7

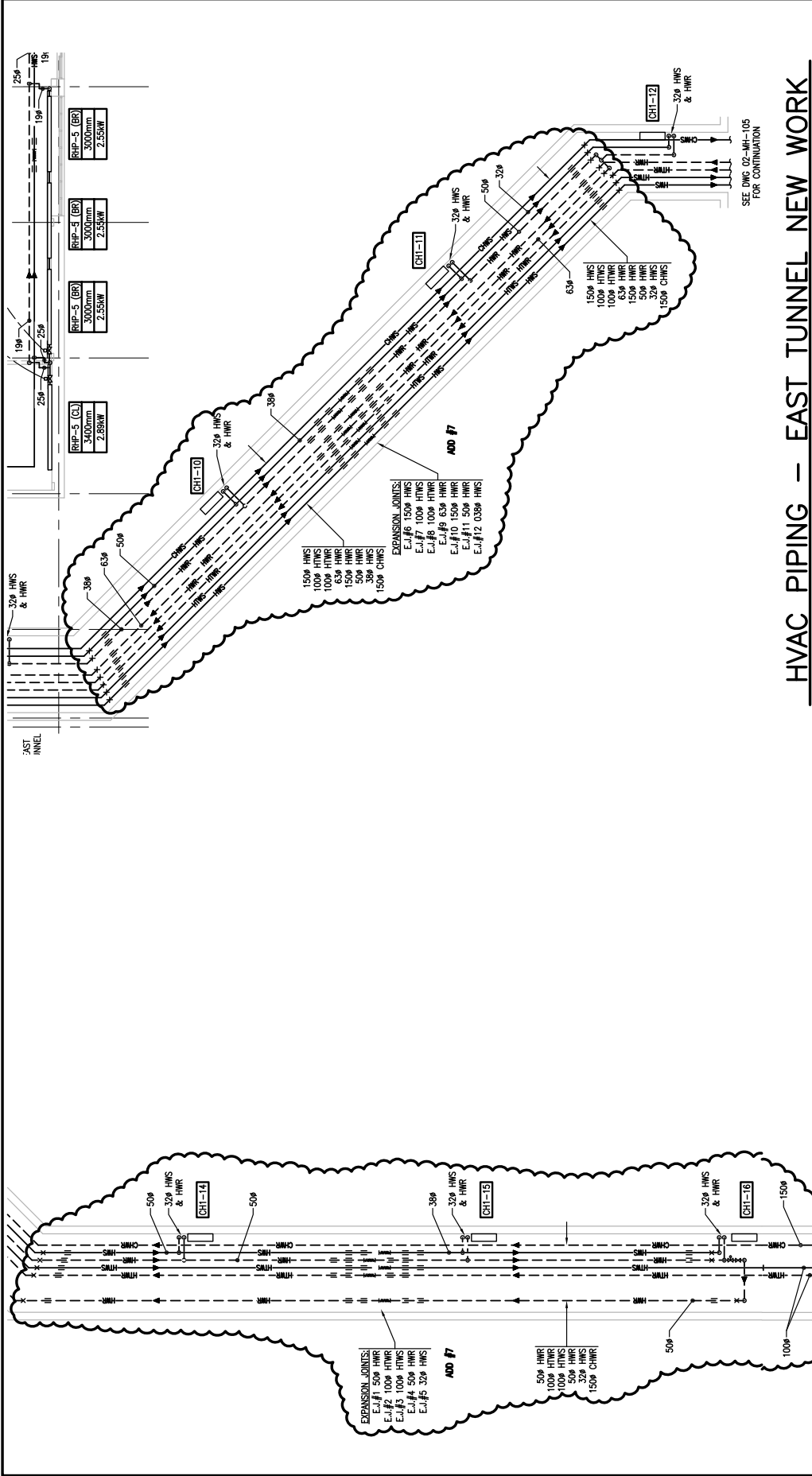
 Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	project  CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project  EXPANSION TANK SCHEDULE	Titre du dessin  01 – CABOT EXPANSION TANK SCHEDULE	designed RJK	conçu date 08/10/18		
	Tender				Joan Muise PWGSC Project Manager	Soumission	drawn RAFH	dessiné date 08/10/18
							approved RJK	approuvé date 08/10/18
drawing no. 01 – MH – SK009			project number R.065476.700			no. du dessin		

01 – CABOT – AIR SEPARATOR SCHEDULE								ADD #7
MARK	SYSTEM	STYLE	FLOW (L/s)	TANGENTIAL OPENING SIZES (mm)	OPERATING PRESSURE (kPa)	DIMENSIONS		REMARKS
						HEIGHT (mm)	DIAMETER (mm)	
AS1-1	PRIMARY HTG. LOOP	VORTEX FLOOR-MOUNTED	70.3	200	850	1400	750	c/w STRAINER
AS1-2	CHILLED WATER SYSTEM	VORTEX FLOOR-MOUNTED	60.5	200	850	1400	750	c/w STRAINER
AS1-3	PRIMARY CLG. LOOP	VORTEX FLOOR-MOUNTED	60.5	200	850	1400	750	c/w STRAINER
AS1-4	GLYCOL HTG. LOOP	VORTEX FLOOR-MOUNTED	18.9	100	850	800	500	c/w STRAINER

Reference Drawing: 01-MH-602

Addendum #: 7

 Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	project  CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project  CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	Drawing title  01 – CABOT AIR SEPARATOR SCHEDULE	Titre du dessin  01 – CABOT AIR SEPARATOR SCHEDULE	designed RJK	conçu RJK	date 08/10/18
	Tender  Joan Muise PWGSC Project Manager					Submission  Administrateur de projets TPSGC	drawn RAFH	dessiné RAFH
				project number R.065476.700	no. du projet R.065476.700	approved RJK	approuvé RJK	date 08/10/18
				drawing no. 01-MH-SK010		no. du dessin 01-MH-SK010		



# HVAC PIPING – EAST TUNNEL NEW WORK

SCALE: 1:150

Reference Drawing: 01-MH-111

Appendum #: 7

Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS	project	Drawing title	Titre du dessin	designed RJK	date 08/10/18				
Tender	Joan Muise	Submission	MECHANICAL & SPRINKLER UPGRADES	no. du projet	01 – CABOT LEVEL 100 WEST & EAST TUNNELS EXPANSION JOINTS	approved RJK	date 08/10/18	no. du dessin				
PWSSC Project Manager		Administrateur de projets TPSSC		project number		drawing no.		01-MH-SK011				
				R.065476.700		01-MH-SK011						






# 01 – CABOT – HEATING COIL SCHEDULE

MARK	AREA SERVED	AIRFLOW (L/s)	COIL SIZE H x NTL (mm)	FACE AREA (m <sup>2</sup> )	FACE VELOCITY (m/min)	EAT (°C)	LAT (°C)	COIL CAPACITY (kW)	WATER FLOW (L/s)	WATER PD (kPa)	AIR FRICTION (Pa)	COMMENTS
HC1-1	1201A SIMULATOR VAV-1.13(e)	140	AS REQUIRED	0.069	122.0	13.5	26.7	2.4	0.08	8.9	50	COIL DIMENSIONS TO SUIT EXISTING ZONE BOX
HC1-2	1203B SIMULATOR VAV-1.16(e)	94	AS REQUIRED	0.046	122.0	13.5	26.7	1.6	0.05	8.9	50	COIL DIMENSIONS TO SUIT EXISTING ZONE BOX
HC1-3	1203A SIMULATOR VAV-1.18(e)	230	AS REQUIRED	0.113	122.0	13.5	26.7	3.9	0.13	8.9	50	COIL DIMENSIONS TO SUIT EXISTING ZONE BOX
HC1-4	1205C SIMULATOR VAV-1.19(e)	185	AS REQUIRED	0.091	122.0	13.5	26.7	3.1	0.10	8.9	50	COIL DIMENSIONS TO SUIT EXISTING ZONE BOX

NOTES: SIZE COILS BASED ON 49°C EWT.

Reference Drawing: 01-MH-602 Addendum #: 7

 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada	Soumission Joane Muise PWGSC Project Manager Administrateur de projets TPSGC	project CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project 01 – CABOT HEATING COIL SCHEDULE	Drawing title	Titre du dessin	designed MJM	conçu MJM	date 08/10/18
				project number R.065476.700	no. du projet R.065476.700	drawing no. 01-MH-SK013	no. du dessin 01-MH-SK013	
				approved MAC	dessiné MAC	date 08/10/18		
approved RJK	approuvé RJK	date 08/10/18	date 08/10/18	date 08/10/18	date 08/10/18	date 08/10/18	date 08/10/18	

### 01 – CABOT – SPLIT SYSTEM – INDOOR FAN COIL UNIT SCHEDULE

DESIGNATION	OUTDOOR UNIT	SERVING	TYPE	NOMINAL CAPACITY (kW)	AIRFLOW (L/s)	OUTDOOR AIR (L/s)	ESP (Pa)	COOLING		ELECTRICAL			CONNECTIONS			COMMENTS		
								TOTAL CAP. (kW)	SENS. CAP. (kW)	EER	MCA	MOCP	VOLT/PH	LIQUID (mm)	SUCTION (mm)		DRAIN (mm)	MAX SOUND LEVEL (dBA)
CC1-4.01	CU1-1	SERVER 4115	4-WAY CEILING CASSETTE	10.6	500	-	-	10.6	-	-	1.25 A	-	208/1	10	16	32	43	c/w CONDENSATE LIFT PUMP, WIRED THERMOSTAT, & MERV 10 FILTER

ADD #7

### 01 – CABOT – SPLIT SYSTEM – OUTDOOR CONDENSING UNIT SCHEDULE

DESIGNATION	NOMINAL CAPACITY (kW)	AIRFLOW (L/s)	COOLING		ELECTRICAL			FANS		COMPRESSORS		CONNECTIONS		WEIGHT (kg)	DIMENSIONS			COMMENTS	
			TOTAL CAP. (kW)	SENS. CAP. (kW)	EER	MCA	MOCP	VOLT/PH	NO.	MOTOR (kW)	NO.	MOTOR (kW)	LIQUID (mm)		SUCTION (mm)	WIDTH (mm)	LENGTH (mm)		HEIGHT (mm)
CU1-1	10.6	1,830	10.6	-	14.2	31 A	44 A	208/1	2	0.074	1	2.8	-	10	16	420	1050	1340	c/w SALT RESISTANT CONSTRUCTION, AIR INLET GUIDE

Reference Drawing: 01-MH-602

Addendum #: 7

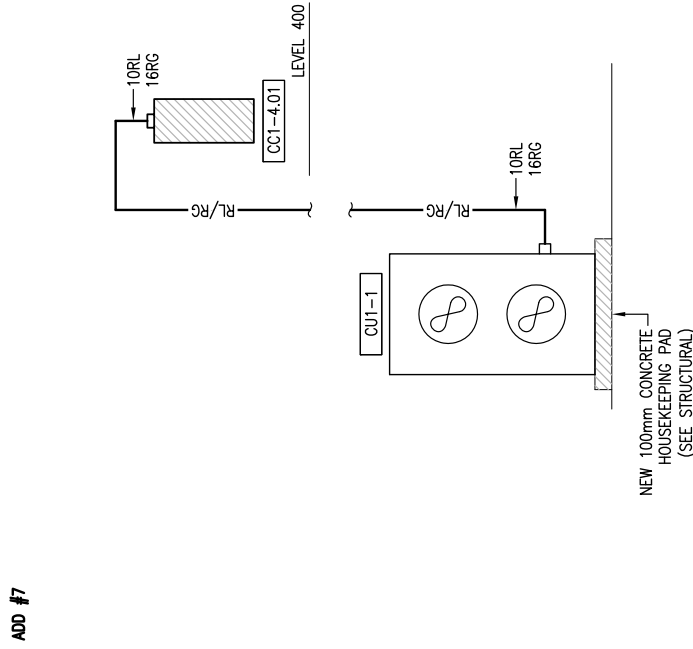
 Public Works and Government Services Canada Tender		Travaux publics et Services gouvernementaux Canada Submission		project  CANADIAN COAST GUARD COLLEGE, SYDNEY, NS  MECHANICAL & SPRINKLER UPGRADES		project  Drawing title  01 – CABOT SPLIT SYSTEM SCHEDULES		project  no. du projet R.065476.700		designed ACJC date 08/10/18		drawn MAC date 08/10/18		approved RJK date 08/10/18		drawing no. 01 – MH – SK014	
Joan Muise PWSC Project Manager		Administrateur de projets TPSGC															

Diagram illustrating the installation of a new fan coil unit (FCU) connected to a new refrigerant liquid & gas line, to heat recovery unit, sized as per schedule.

Labels and components shown:


- UNIT SUPPORTED FROM U/S SLAB WITH MIN. 13mm THREADED ROD c/w NEOPRENE ISOLATION WASHER
- T-BAR CEILING
- 32mm PUMPED CONDENSATE DRAIN c/w P-TRAP AND FLEXIBLE CONNECTION, INSULATED AND INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS
- NEW FAN COIL UNIT
- NEW REFRIGERANT LIQUID & GAS LINE, TO HEAT RECOVERY UNIT, SIZED AS PER SCHEDULE
- ISOLATION VALVES PROVIDE BOTH WITH SCHRAEDER VALVES FOR SERVING UNIT
- RETURN AIR
- SUPPLY AIR
- POWER DISCONNECT SWITCH BY DW. 26

SPLIT SYSTEM DUCTLESS CASSETTE FAN COIL INDOOR UNIT



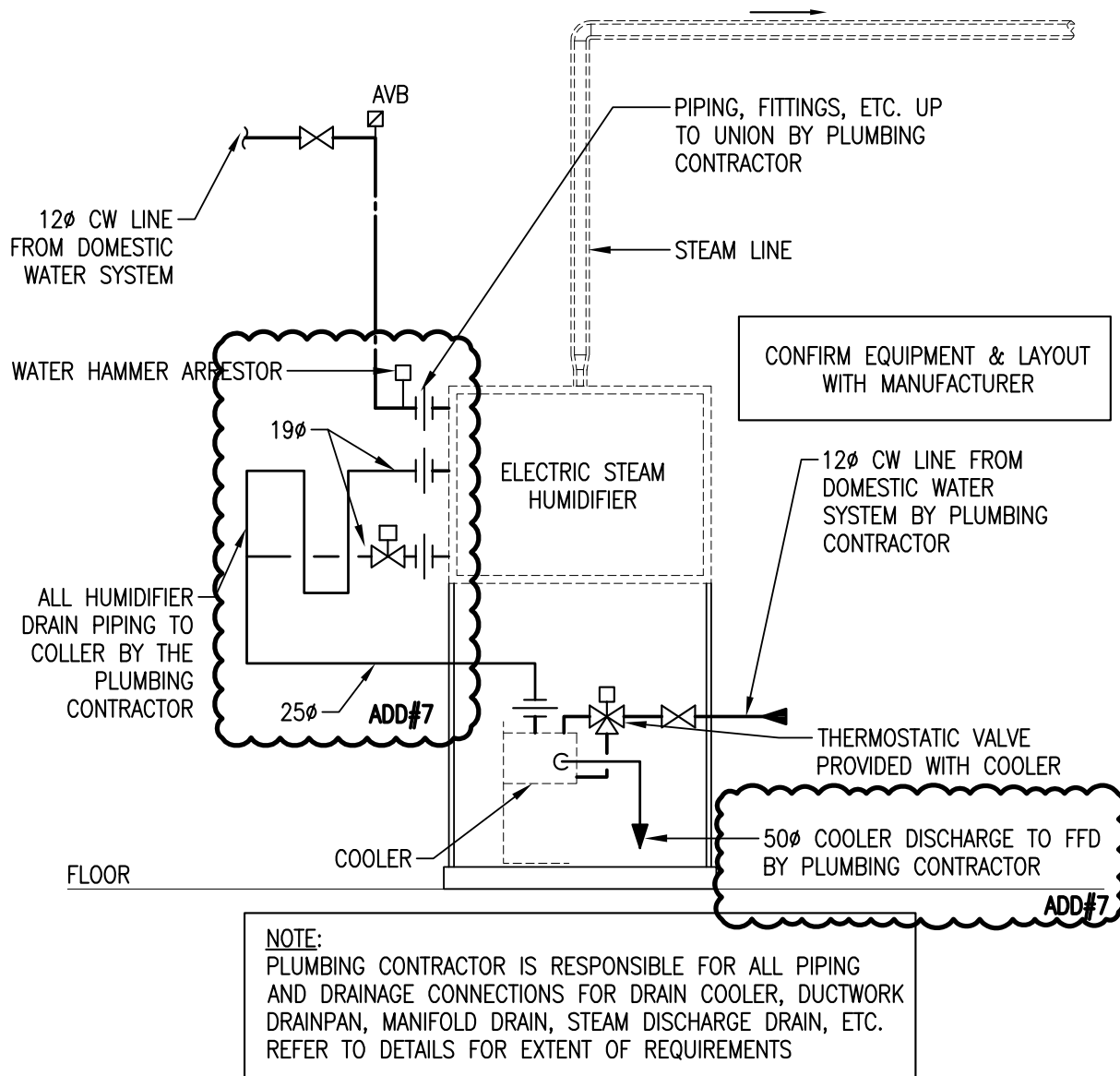
CU1-1 PIPING SCHEDULE 5  
SCALE : N.T.S.  
MH5037

Reference Drawing: 01-MH-503

	Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	
Tender	Joan Muise	Soumission	
project		project	
CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES		Drawing title	01 – CABOT SPLIT SYSTEM DETAILS
drawing no.		no. du dessin	R.065476.700
drawing no.		no. du dessin	01 – MH – SK013
approved date		approved date	08/10/18
approved date		approved date	08/10/18
designed by		designed by	ACJC
designed date		designed date	08/10/18

PWGSC L2 (2004)

E-DRM/GDD-E: 538447




## HUMIDIFIER PLUMBING DETAIL

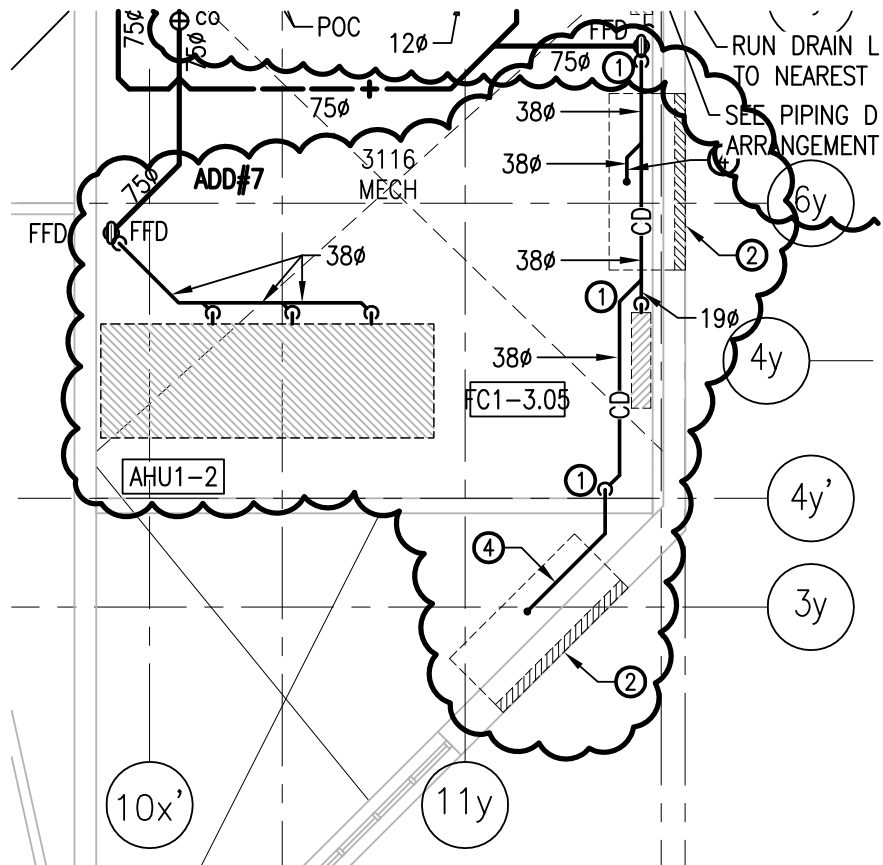
SCALE : N.T.S.



Reference Drawing: 01-MP-501


Addendum #: 7

 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada	Drawing title		designed	conçu	date
	<b>PIPE SIZING FOR HUMIDIFIER PIPING DETAIL</b>		MJM		08/10/18
project <b>CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL &amp; SPRINKLER UPGRADES</b> projet			drawn	dessiné	date
			SNH		08/10/18
			approved	approuvé	date
			DAM		08/10/18
Tender		08/10/18			
Joan Muise		Soumission			
PWGSC Project Manager		Administrateur de projets TPSGC			
project number		no. du projet	drawing no.	no. du dessin	
R.065476.700			01-MP-SK006		

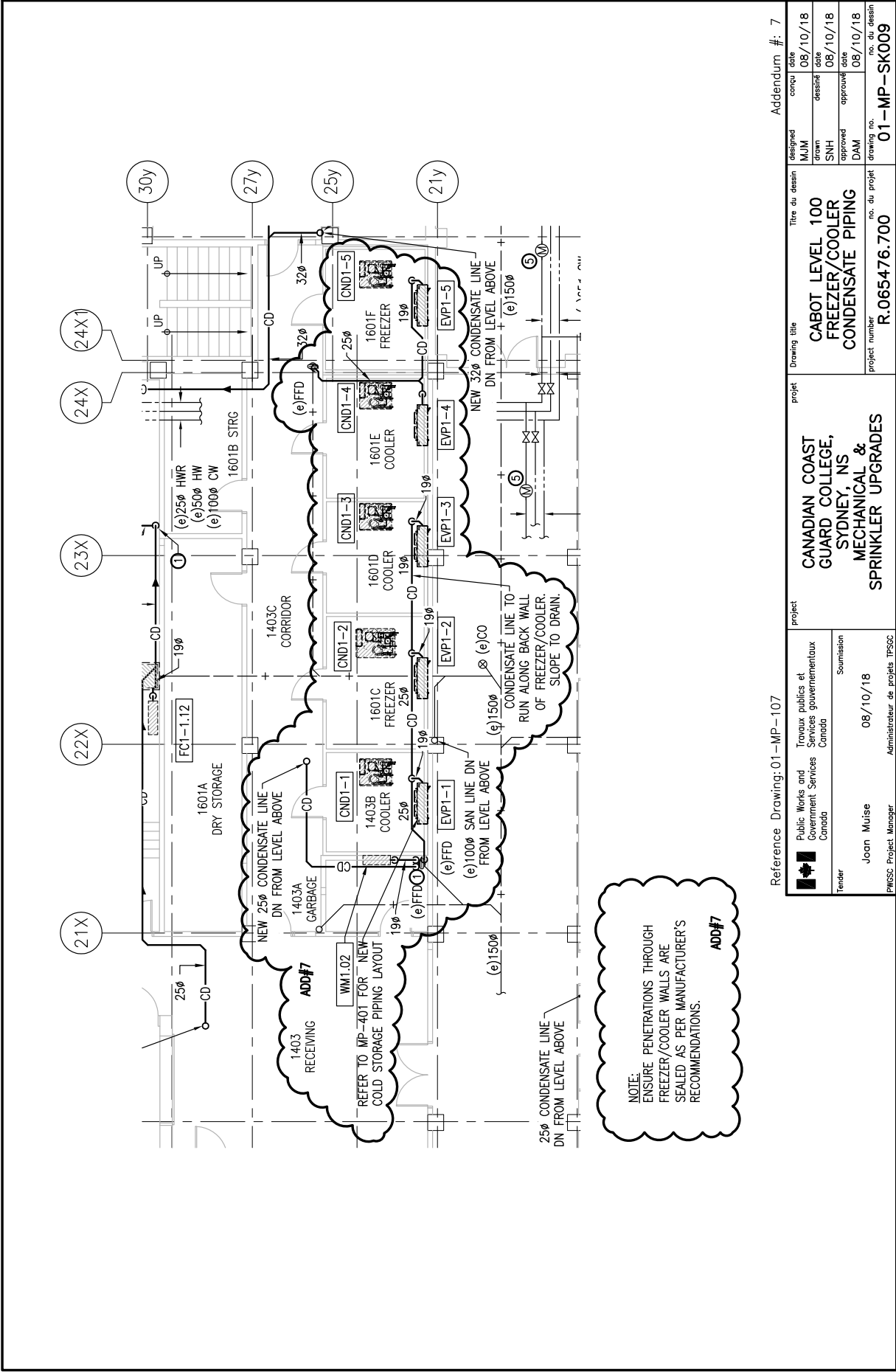


Reference Drawing: 01-MP-105

Addendum #: 7


 Public Works and Government Services Canada		Travaux publics et Services gouvernementaux Canada	Drawing title		Titre du dessin		designed MJM	conçu	date 08/10/18			
project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES		CABOT LEVEL 300 CONDENSATE PIPE SIZING				drawn SNH	dessiné	date 08/10/18			
							approved DAM	approuvé	date 08/10/18			
							Tender			Soumission		
							Joan Muise PWGSC Project Manager			08/10/18 Administrateur de projets TPSGC		
		project number	no. du projet		drawing no.		no. du dessin					
		R.065476.700		01-MP-SK007								





Reference Drawing: 01-MP-107

Addendum #: 7

 Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada		project	project	project title	Title du dessin	designed MJM	date 08/10/18
	Submission							
Tender	Joan Muise	08/10/18	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project number R.065476.700	no. du projet 01-MP-SK009	drawing no. 01-MP-SK009	date 08/10/18	no. du dessin 01-MP-SK009
PWSSC Project Manager		Administrateur de projets TPSSC						

01 - CABOT - FREEZER/COOLER PLATE HEAT EXCHANGER SCHEDULE

01 - CABOT - FREEZER/COOLER PLATE HEAT EXCHANGER SCHEDULE													NO. 97		
DESIGNATION	LOCATION	APPLICATION	TYPE	INLET				OUTLET				DESIGN PRESSURE (PSI)	REMARKS		
				FLUID	TEMP. (°F)	TEMP. (°C)	FLUID	TEMP. (°F)	TEMP. (°C)						
PH1-PH1	1402Z BOILER	DOMESTIC WATER HEATING	BRANZED	H <sub>2</sub> O	0.5	36.8	24.3	1/4	0.25	4.4	17.2	6.8	13.5	860	19A CONNECTIONS, SMALL WALL, COPPER BRASS, VALVES
PH1-PH2	1403P MED	SEWATER REJECTION	BRANZED	H <sub>2</sub> O	0.5	30.4	24.3	1/4	0.03	15	20.6	32	13.5	860	19A CONNECTIONS, SMALL WALL, COPPER BRASS, VALVES

01 - CABOT - FREEZER/COOLER PUMP SCHEDULE

DESIGNATION	LOCATION	APPLICATION	PUMP TYPE	FLOW RATE (GPM)	HEAD (FT)	POWER (KW)	CONTROLS	VIBRATION ISOLATORS	COMMENTS
PH1-PH1	1400Z BOILER	DOMESTIC WATER HEATING	1/2" NPT	100	120/1	3250	SEE ELEC	EMCS	PARALLEL PUMP, ONE PUMP IS STANDBY
PH1-PH2	1403P MED	SEWATER REJECTION	1/2" NPT	36	120/1	2940	SEE ELEC	EMCS	SPINCE BOOT
PH1-PH3	1403Z BOILER	SEWATER REJECTION	1/2" NPT	60	120/1	3200	SEE ELEC	EMCS	-

01 - CABOT - FREEZER/COOLER AIR SEPARATOR SCHEDULE

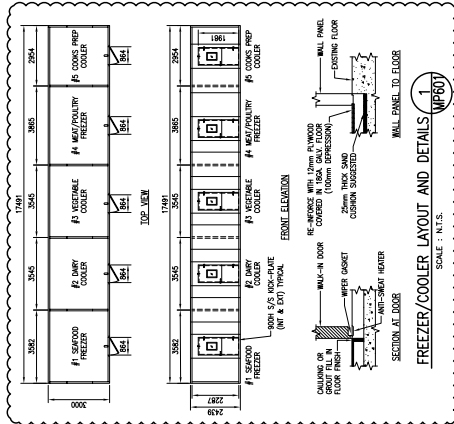
MARK	SYSTEM	STYLE	VOLUME (L)	TEMP. (°C)	TEMP. (°F)	REMARKS
AS1-PH	DOMESTIC CONDENSING UNITS	N/A	0.5	32	1034	1/4" EXPANSION TANK CONNECTION, BUILT IN BRASS BODY, 30 COLLECTING AIR/WATER

01 - CABOT - FREEZER/COOLER EXPANSION TANK SCHEDULE

01 - CABOT - FREEZER/COOLER EXPANSION TANK SCHEDULE								ADD #7
MARK	SYSTEM	STYLE	VOLUME (L)	ACCEPT. (L)	OPERATING PRESSURE (kPa)	DIMENSIONS HEIGHT (mm)	DIMENSIONS DIA (mm)	REMARKS
ET1-PH	FREEZERS/COOLERS	ISOQUANTAL DASHMAN TYPE	3.8	7.6	860	325	200	-

01 - CABOT - PLUMBING EQUIPMENT SCHEDULE

01 – CABOT – PLUMBING EQUIPMENT SCHEDULE	
PH1-PH1-1	DOMESTIC HOT WATER STORAGE TANK
PH1-PH1-1-1 DOMESTIC HOT WATER STORAGE TANK, 450L, CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CANADIAN BOILER AND PRESSURE VESSEL CODE (CBPC) AND THE CANADIAN NATIONAL STANDARD (CNS) FOR STEEL-BOLTED, WELDED, AND CAST-IRON WATER HEATERS AND WATER HEATING EQUIPMENT. THE TANK SHALL BE CONSTRUCTED FROM INSULATION CLASS 1500, SHALL HAVE A MINIMUM INSULATION OF 25MM, AND SHALL BE COVERED BY A MINIMUM OF 25MM OF INSULATION. THE TANK SHALL BE COVERED BY A MINIMUM OF 25	



01 - CABOT - FREEZER/COOLER EQUIPMENT SCHEDULE

01 – CABOT – FREEZER/COOLER EQUIPMENT SCHEDULE									
COOLERS									
COOLERS W/SPR COOLER									
COOL-1	COOL-1	WATER COOLED THERMATIC CONDENSING LINE, PRE-INSULATED PACKAGE, 3/8" MOUNTED - 1/4" RECOVER WITH FUSIBLE PLUG AND SUCTON SERVICE W/VALVE, COOLER TUBING TO BE SEQUENCED WITH CURRENT CAMPS, AVAILABLE DATA, HIGH/LOW PRESSURE CONTROL, ACCUMULATOR, 1/2" SUCTON LINE CONNECTION, 1/2							

Address: #07  
Reference: Drawing 01-MP-001

CANADIAN COAST  
GUARD COLLEGE  
STONEY, NS  
MECHANICAL &  
SPRINKLER UPGRADES

PLUMBING  
CABOT WEST LEVEL 100  
FREEZER/COOLER  
HEAT RECOVERY  
SCHEDULES & DETAILS

Project: #07  
Date: 08/10/18  
Author: J. Scott Mudge  
Approved: J. Scott Mudge  
R.065476.700  
01-MP-SK010






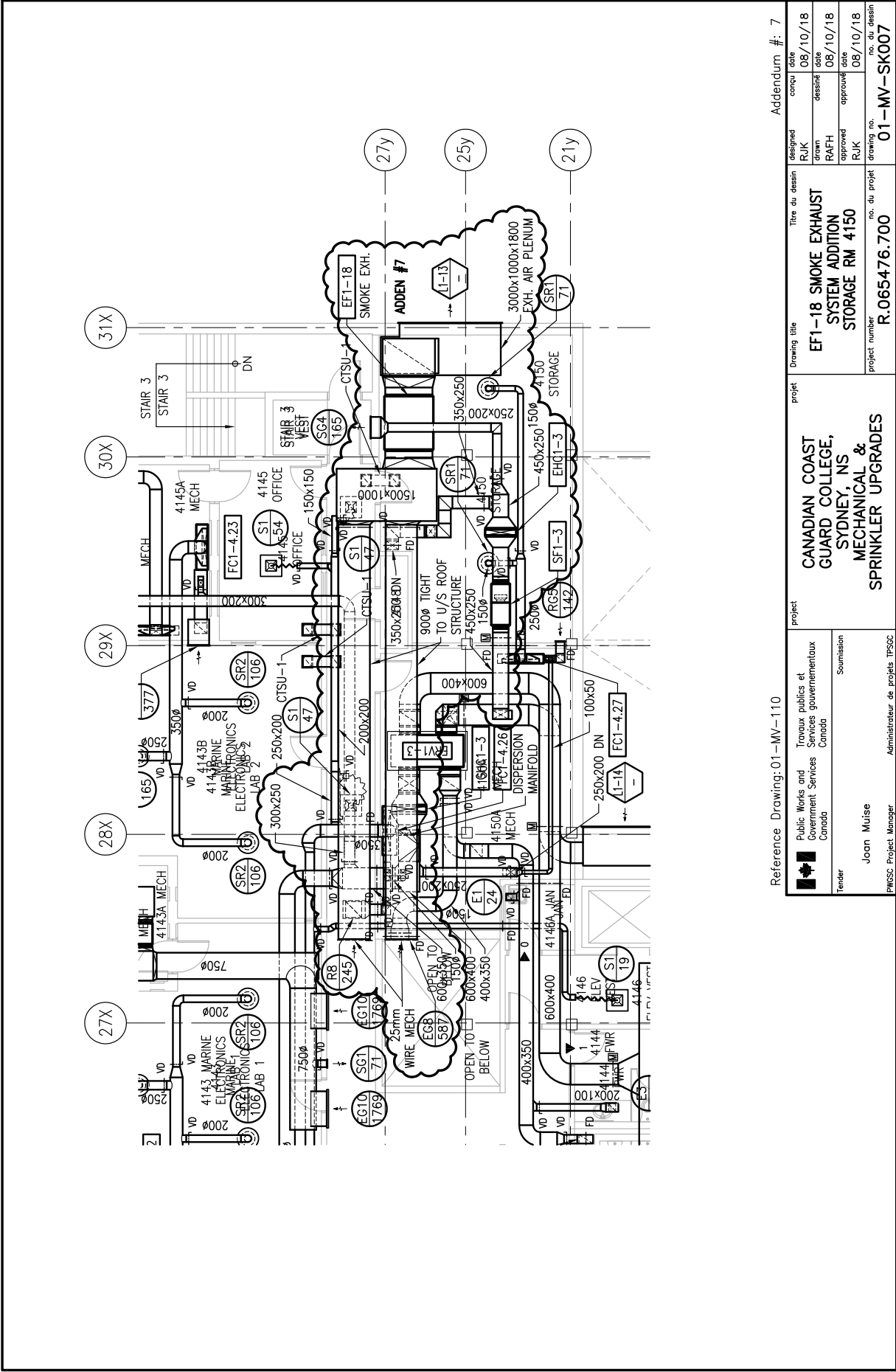
E-DRM/GDD-E: 538447

01 – CABOT BUILDING – RETURN/EXHAUST FAN SCHEDULE																											
MARK	APPLICATION	LOCATION	TYPE AND SIZE OF UNIT FAN	ARRANGEMENT & DRIVE	AIR FLOW (CFM)	SP (Pa)	CFM (m³/min)	FAN DATA		MOTOR ELECTRICAL (VOLT)	STARTER DATA	INTERLOCKING		VELOCITY SPRINGS		SOUND POWER LEVEL (dB) (OCCUPY BANES)								COMMENTS			
								DISCHARGE	BHP			RPM	TYPE	LOCATION	BASE	SPRINGS	1	2	3	4	5	6	7		8		
RF1-1	AHU1-1 SYSTEM RETURN FAN	MECH MEZZ	INLINE MIXED FLOW	AS SHOWN V-BELT	2,838	250	441	HORIZONTAL	1.2	1227	1.49	VSD BY DN 26 DWMS	REFER TO DN 26 DWMS	AHU1-1, EMCS	-	SHR	25	72	78	77	74	70	67	62	56	-	
RF1-2	AHU1-2 SYSTEM RETURN FAN	MECH ROOM 3116	INLINE MIXED FLOW	AS SHOWN V-BELT	2,838	250	441	HORIZONTAL	1.2	1227	1.49	VSD BY DN 25	REFER TO DN 25	AHU1-2, EMCS	-	SHR	25	72	78	77	74	70	67	62	56	-	
RF1-3	AHU1-3 SYSTEM RETURN FAN	MECH ROOM 3116	INLINE MIXED FLOW	AS SHOWN V-BELT	2,128	250	397	HORIZONTAL	0.9	1278	1.12	VSD BY DN 25	REFER TO DN 25	AHU1-3, EMCS	-	SHR	25	68	77	75	72	67	65	61	55	-	
EF1-1	2331 CHEMISTRY FUME HOOD	MECH ROOM 4133A	BI CENTRIFUGAL UTILITY FAN	AS SHOWN DIRECT DRIVE	190	186	160	VERTICAL	0.08	1555	0.19	120/1/60	MAGNETIC	REFER TO DN 26 DWMS	EMCS, SWITCH AT HOOD	SLR 100 72	25	79	75	72	67	65	61	56	52	44	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL
EF1-2	GARBAGE RECYCLING ROOMS	GARBAGE ROOM 1401	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	355	125	170	HORIZONTAL	0.08	1313	0.19	120/1/60	MANUAL	REFER TO DN 26 DWMS	EMCS	-	-	64	67	64	65	61	56	48	47	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-3	DISHWASHER EXHAUST	MECH ROOM 1403	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	236.5	125	152	HORIZONTAL	0.07	1725	0.08	120/1/60	MANUAL	REFER TO DN 26 DWMS	EMCS	-	-	75	75	72	65	61	56	55	48	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-4	KITCHEN HOOD EXHAUST	ROOF ABOVE RM 1708B DISHWASH	ROOF MOUNTED GREASE EXHAUST FAN	AS SHOWN V-BELT	2,128.5	500	914	VERTICAL	2.65	1550	3.73	VSD BY DN 25	REFER TO DN 25	EMCS, AHU1-4	-	-	-	-	-	-	-	-	-	-	-	6/4" BACKUP DAMPER ON DISCHARGE SLOPED ROOF CURB AND DISCONNECT SWITCH	
EF1-5	KITCHEN HOOD EXHAUST	ROOF ABOVE RM 1708B DISHWASH	ROOF MOUNTED GREASE EXHAUST FAN	AS SHOWN V-BELT	3,547.5	500	862	VERTICAL	4.36	1198	5.59	VSD BY DN 25	REFER TO DN 25	EMCS, AHU1-4	-	-	-	-	-	-	-	-	-	-	-	6/4" BACKUP DAMPER ON DISCHARGE SLOPED ROOF CURB AND DISCONNECT SWITCH	
EF1-6	ELEVATOR ROOM 1707A EXHAUST	RECEIVING BAY 1403	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	355	125	170	HORIZONTAL	0.08	1313	0.19	120/1/60	MAGNETIC	REFER TO DN 26 DWMS	EMCS	-	-	64	67	64	65	61	56	48	47	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-7	ELEVATOR ROOM 1707 EXHAUST	RECEIVING BAY 1403	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	94.5	125	61	HORIZONTAL	0.04	1488	0.1	120/1/60	MAGNETIC	REFER TO DN 26 DWMS	EMCS	-	-	68	73	69	60	57	54	49	42	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-8	PREFRIZER AREA EXHAUST	RECEIVING BAY 1403	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	165	125	106	HORIZONTAL	0.06	1707	0.1	120/1/60	MAGNETIC	REFER TO DN 26 DWMS	EMCS	-	-	69	75	73	65	60	58	54	46	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-9	RECEIVING AREA EXHAUST	RECEIVING BAY 1403	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	486	125	239	HORIZONTAL	0.18	1559	0.19	120/1/60	MAGNETIC	REFER TO DN 26 DWMS	EMCS	-	-	67	72	71	70	65	61	55	52	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-10	CHANGE ROOMS EXHAUST	M CHANGE RM 1603B	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	283	125	136	HORIZONTAL	0.06	1229	0.19	120/1/60	MAGNETIC	REFER TO DN 26 DWMS	EMCS	-	-	64	67	62	63	60	55	46	45	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-11	MWR & FRR 2020 EXHAUST	2020 CORRIDOR	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	118	125	173	HORIZONTAL	0.095	1050	0.95	120/1/60	MANUAL	REFER TO DN 26 DWMS	EMCS	-	-	-	-	-	-	-	-	-	-	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-12	MECH ROOM 4115A SMOKE EXHAUST	MECH ROOM 4115A	MEDIUM PRESSURE AXIAL	AS SHOWN V-BELT	3,547.5	125	727	HORIZONTAL	1.29	1452	1.49	VSD BY DN 26 DWMS	REFER TO DN 26 DWMS	EMCS, FIRE ALARM	-	SHR	25	90	97	90	88	85	81	76	73	ULC LISTED FOR SMOKE CONTROL	
EF1-13	ATRIUM SMOKE EXHAUST	MECH ROOM 4133A	MEDIUM PRESSURE AXIAL	AS SHOWN V-BELT	3,547.5	125	727	HORIZONTAL	1.29	1452	1.49	VSD BY DN 26 DWMS	REFER TO DN 26 DWMS	EMCS, FIRE ALARM	-	SHR	25	90	97	90	88	85	81	76	73	ULC LISTED FOR SMOKE CONTROL	
EF1-14	ATRIUM SMOKE EXHAUST	MECH ROOM 4133A	MEDIUM PRESSURE AXIAL	AS SHOWN V-BELT	3,547.5	125	727	HORIZONTAL	1.29	1452	1.49	VSD BY DN 26 DWMS	REFER TO DN 26 DWMS	EMCS, FIRE ALARM	-	SHR	25	90	97	90	88	85	81	76	73	ULC LISTED FOR SMOKE CONTROL	
EF1-15	WR 2802 EXHAUST	WR 2802	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	47	125	30.5	HORIZONTAL	0.04	1275	0.18	120/1/60	MANUAL	REFER TO DN 26 DWMS	EMCS, FIRE ALARM IN WR 2802	-	-	79	80	67	64	56	52	49	44	6/4" SPRING HANGING ISOLATION KIT, UNIT MOUNTED SPEED CONTROL	
EF1-16	BOARD RM 2029 EXHAUST	CEILING ABOVE ADJACENT OFFICE	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	110	125	70.1	HORIZONTAL	0.04	1525	0.13	120/1/60	MANUAL	REFER TO SPEED CONTROL IN BOARD RM 2029	-	-	69	74	70	61	56	55	50	42	6/4" SPRING HANGING ISOLATION KIT & WALL MOUNTED SPEED CONTROL		
EF1-17	CARPENTRY SHOP STORAGE RM 1101B EXHAUST	STORAGE RM 1101B	CENTRIFUGAL INLINE	AS SHOWN DIRECT DRIVE	188	125	122	HORIZONTAL	0.04	1630	0.07	120/1/60	MAGNETIC	REFER TO DN 26 DWMS	EMCS, SWITCH IN RM 1101D	-	-	75	74	70	63	59	56	53	46	6/4" SPRING HANGING ISOLATION KIT & UNIT MOUNTED SPEED CONTROL	
EF1-18	ATRIUM SMOKE EXHAUST	STORAGE RM 4150	MEDIUM PRESSURE AXIAL	AS SHOWN DIRECT DRIVE	23,650	250	958	HORIZONTAL	15.38	863	18.7	VSD BY DN 25	REFER TO DN 25	EMCS, FIRE ALARM	-	SLR	50	101	108	103	101	94	89	85	81	ULC LISTED FOR SMOKE CONTROL	

Reference Drawing: 01-MV-602


Addendum #: 7

 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada	Submission 18/10/18 Administrateur de projets TPSC	project CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project 01 – CABOT RETURN/EXHAUST FAN SCHEDULE R.065476.700	drawing title 01 – CABOT RETURN/EXHAUST FAN SCHEDULE	designed RJK 08/10/18	approved RJK 08/10/18	date 08/10/18
				project number R.065476.700	no. du projet 01 – MV – SK006	no. du dessin 08/10/18	no. du dessin 08/10/18



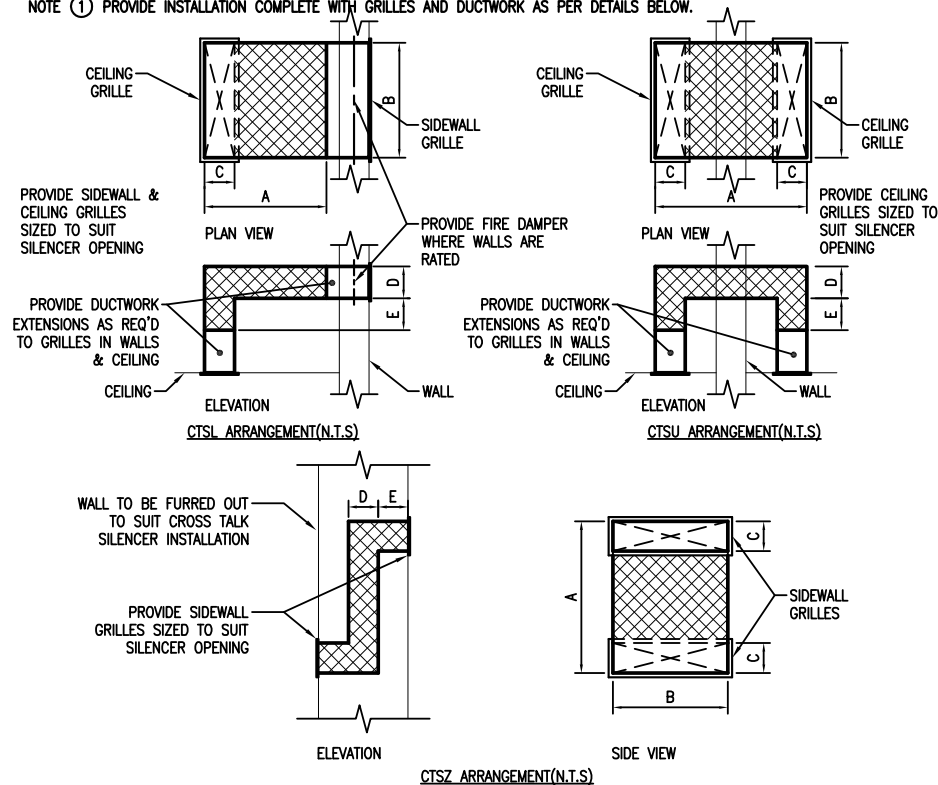
Reference Drawing: 01-MV-110

Addendum #: 7

	Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project	Drawing title	EF1-18 SMOKE EXHAUST SYSTEM ADDITION STORAGE RM 4150		designed RJK	checked RAFH	date 08/10/18
							project number R.065476.700				
Tender	Joan Muise	Submission	PWSSC Project Manager			Administrateur de projets TPSSC		drawing no. RJK		no. du dessin 01-MV-SK007	

01 – CABOT BUILDING – CROSS TALK SILENCER SCHEDULE											ADD #7	
MARK	DIMENSION (MM)					AIRFLOW (L/S)	VELOCITY (M/MIN)	INSERTION LOSS (dB)			CONFIGURATION	COMMENTS
	A	B	C	D	E			125Hz	250Hz	500Hz		
CTSL-1	950	300	250	175	75	0-60	65.2	5	11	22	L-SHAPED	NOTE ①
CTSL-2	950	600	250	175	75	61-120	65.2	5	11	22	L-SHAPED	NOTE ①
CTSL-3	950	900	250	175	75	121-190	69.8	5	11	22	L-SHAPED	NOTE ①
CTSL-4	950	1200	250	175	75	191-235	65.2	5	11	22	L-SHAPED	NOTE ①
CTSU-1	1200	300	250	175	75	0-60	65.2	5	11	22	U-SHAPED	NOTE ①
CTSU-2	1200	600	250	175	75	61-120	65.2	5	11	22	U-SHAPED	NOTE ①
CTSU-3	1200	900	250	175	75	121-190	69.8	5	11	22	U-SHAPED	NOTE ①
CTSU-4	1200	1200	250	175	75	191-235	65.2	5	11	22	U-SHAPED	NOTE ①
CTSZ-1	1200	300	250	175	75	0-60	65.2	5	11	22	Z-SHAPED	NOTE ①
CTSZ-2	1200	600	250	175	75	61-120	65.2	5	11	22	Z-SHAPED	NOTE ①
CTSZ-3	1200	900	250	175	75	121-190	69.8	5	11	22	Z-SHAPED	NOTE ①
CTSZ-4	1200	1200	250	175	75	191-235	65.2	5	11	22	Z-SHAPED	NOTE ①

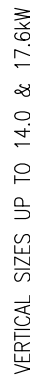
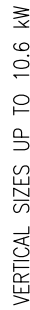
NOTE ① PROVIDE INSTALLATION COMPLETE WITH GRILLES AND DUCTWORK AS PER DETAILS BELOW.



Reference Drawing: 01-MV-605

Addendum #: 7

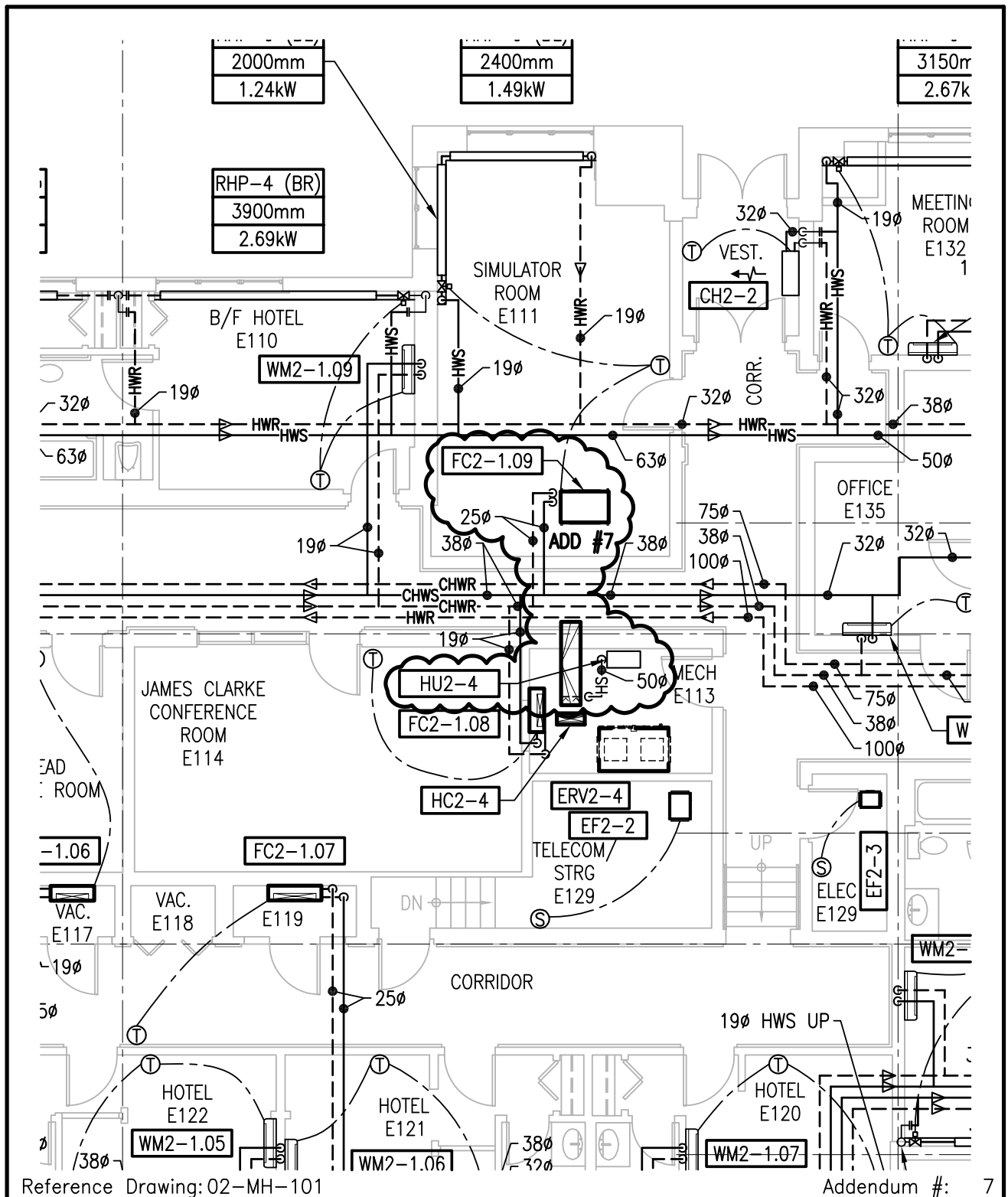
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Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada		01 - CABOT BUILDING CROSS TALK SILENCER SCHEDULE AND DETAILS		drawn dessiné	date 08/10/18
project CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES		approved approuvé		date 08/10/18	date 08/10/18
project number R.065476.700		no. du projet no. du dessin		drawing no. 01-MV-SK008	
Tender Joan Muise PWGSC Project Manager		Submission Administrateur de projets TPSGC			



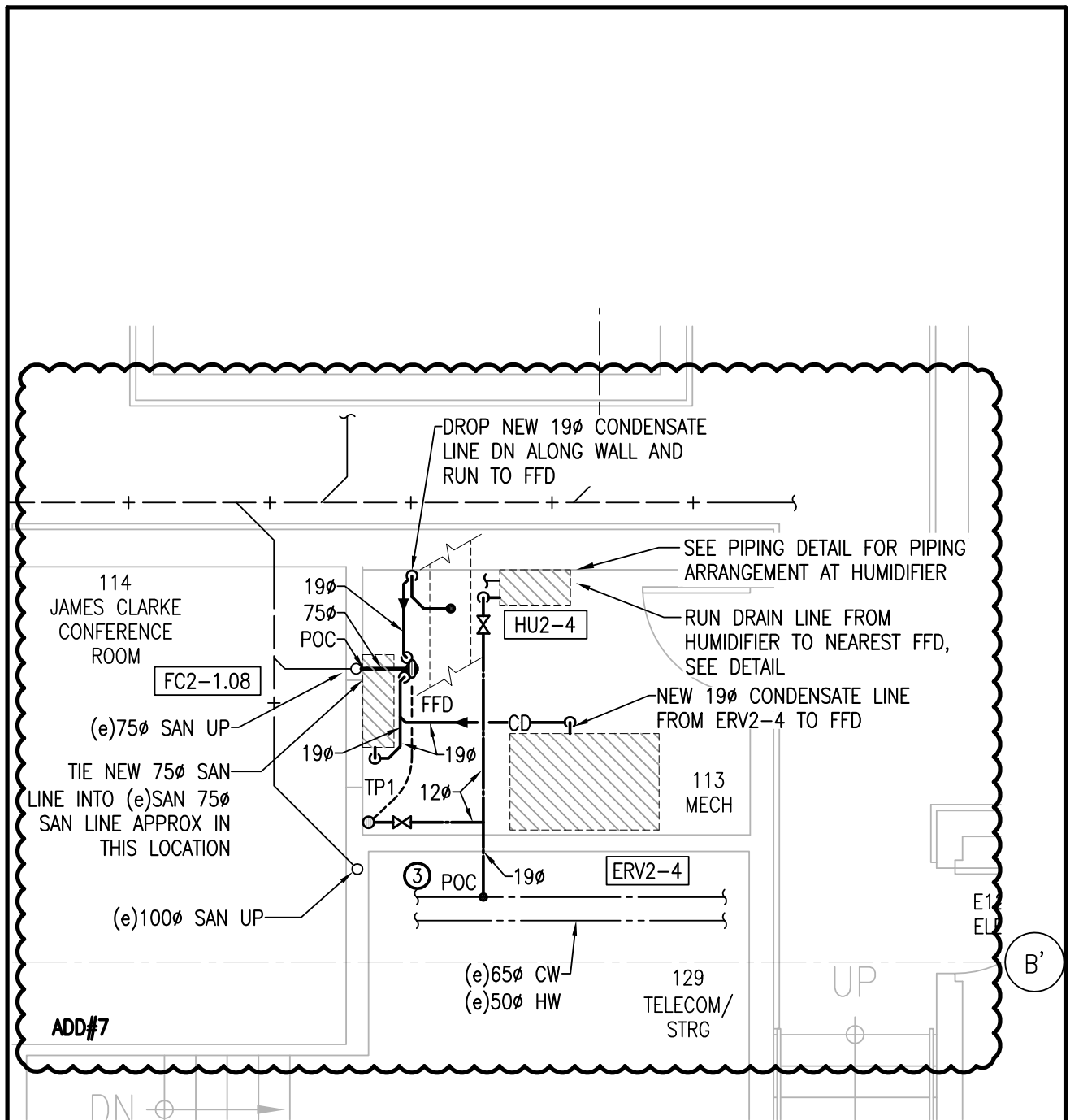
## SCALE : N.T.S.

**ADD #7**

E-DRM/GDD-E: 538447




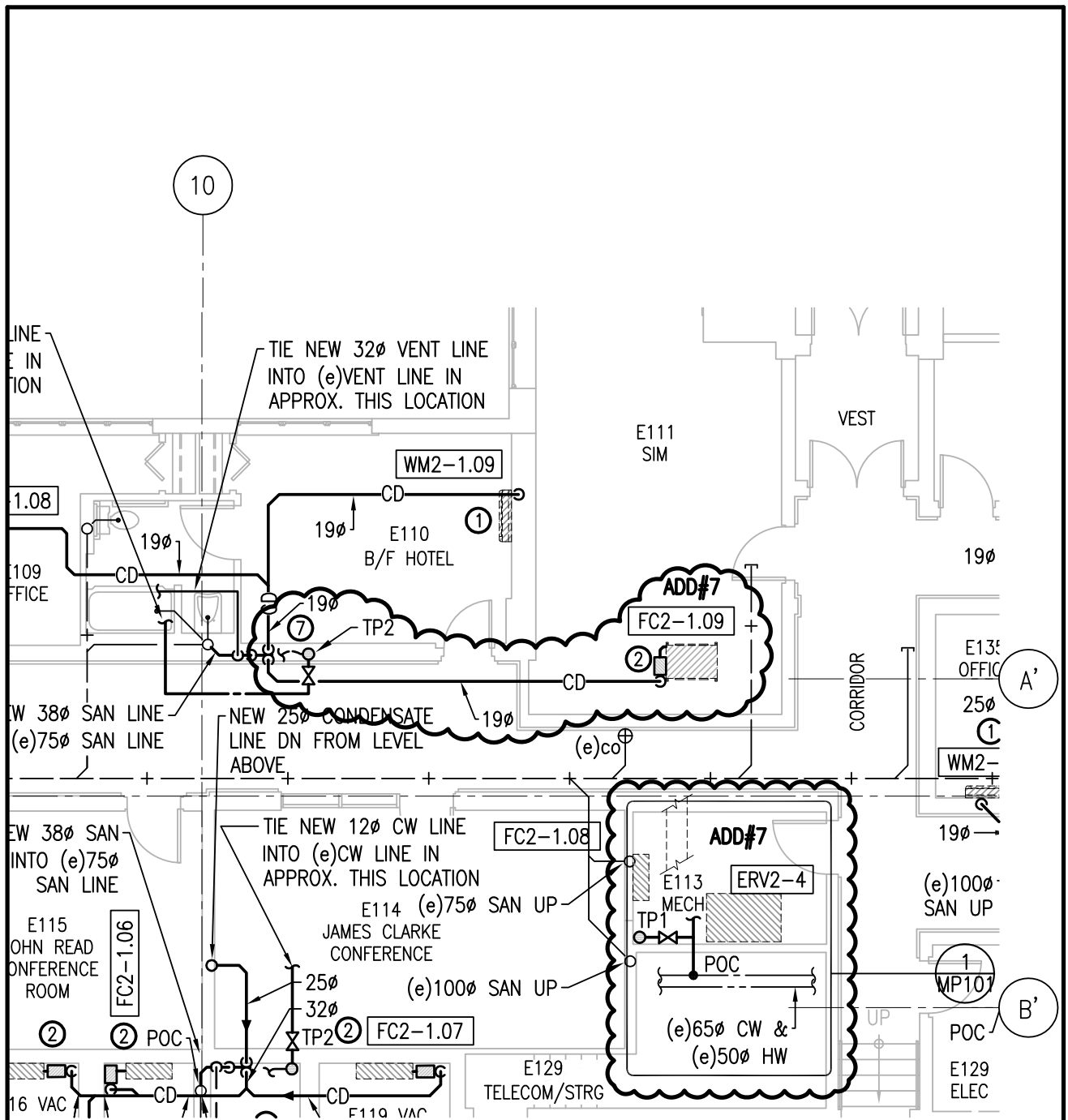
		<b>Drawing title</b> <b>Titre du dessin</b> <b>HUMIDIFIER HU2-4</b> <b>MECH RM E113</b>		<b>designed</b> RJK	<b>conçu</b> RJK	<b>date</b> 08/10/18
<b>project</b> <b>CANADIAN COAST</b> <b>GUARD COLLEGE,</b> <b>SYDNEY, NS</b> <b>MECHANICAL &amp;</b> <b>SPRINKLER UPGRADES</b>		<b>Tender</b> Joan Muise PWGSC Project Manager		<b>drawn</b> RAFH	<b>dessiné</b> RAFH	<b>date</b> 08/10/18
		<b>project number</b> <b>no. du projet</b> R.065476.700		<b>approved</b> RJK	<b>approuvé</b> RJK	<b>date</b> 08/10/18
				<b>Soumission</b> Administrateur de projets TPSGC		
				<b>drawing no.</b> 02-MH-SK001	<b>no. du dessin</b> 02-MH-SK001	



Reference Drawing: 02-MP-101


Addendum #: 7

 <div>Public Works and Government Services Canada</div>		<div>Travaux publics et Services gouvernementaux Canada</div>		Drawing title Titre du dessin		designed MJM	conçu	date 08/10/18
project <div>CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL &amp; SPRINKLER UPGRADES</div> project		ADDITION OF HUMIDIFIER HU2-4 IN MECH RM E113		drawn CAB		dessiné	date 08/10/18	
				approved DAM		approuvé	date 08/10/18	
				Tender Joan Muise PWGSC Project Manager				08/10/18 Soumission Administrateur de projets TPSGC
project number R.065476.700		no. du projet		drawing no. 02-MP-SK001		no. du dessin		

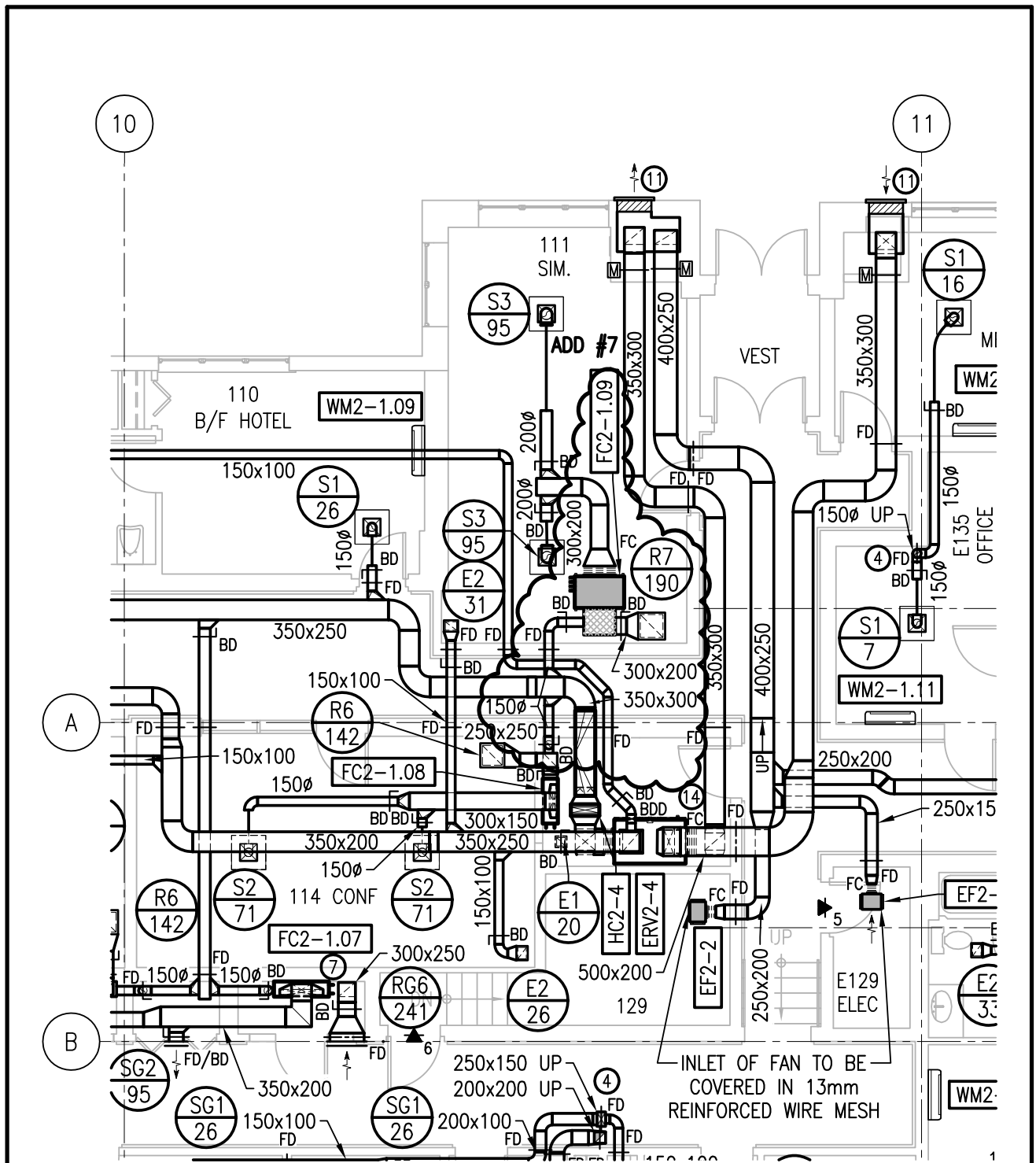


Reference Drawing: 02-MP-101

Addendum #: 7


	Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	Drawing title Titre du dessin		designed MJM	conçu	date 08/10/18	
	project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES		RELOCATED FC2-1.09 CONDENSATE LINE ADDITION		drawn CAB	dessiné	date 08/10/18
approved DAM						approuvé	date 08/10/18	
Tender Joan Muise						08/10/18		
PWGSC Project Manager						Administrateur de projets TPSGC		
project number		no. du projet		drawing no.		no. du dessin		
R.065476.700				02-MP-SK002				





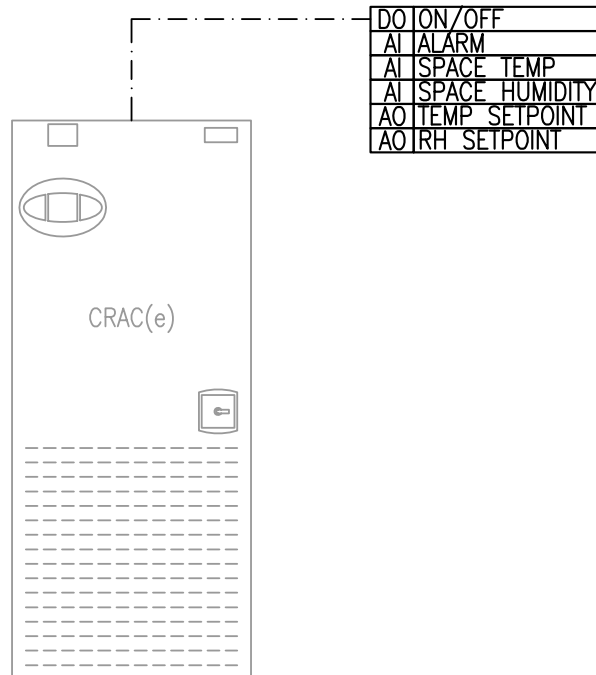
Reference Drawing: 02-MV-101

Addendum #: 7

 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada		Drawing title Titre du dessin		designed conçu		date	
project  CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES  projet		02 – ARCTIC FAN COIL FC2–1.09 REVISIONS		RJK		08/10/18	
				drawn dessiné		date	
				RAFH		08/10/18	
				approved approuvé		date	
				RJK		08/10/18	
		Tender Joan Muise PWGSC Project Manager		Soumission Administrateur de projets TPSGC			
		project number no. du projet		drawing no. no. du dessin			
		R.065476.700		02–MV–SK001			



ADD #7




# EXISTING LIEBERT CRAC UNIT CONTROLS TYPICAL OF CRAC-1e, CRAC-2e, & CRAC-3e

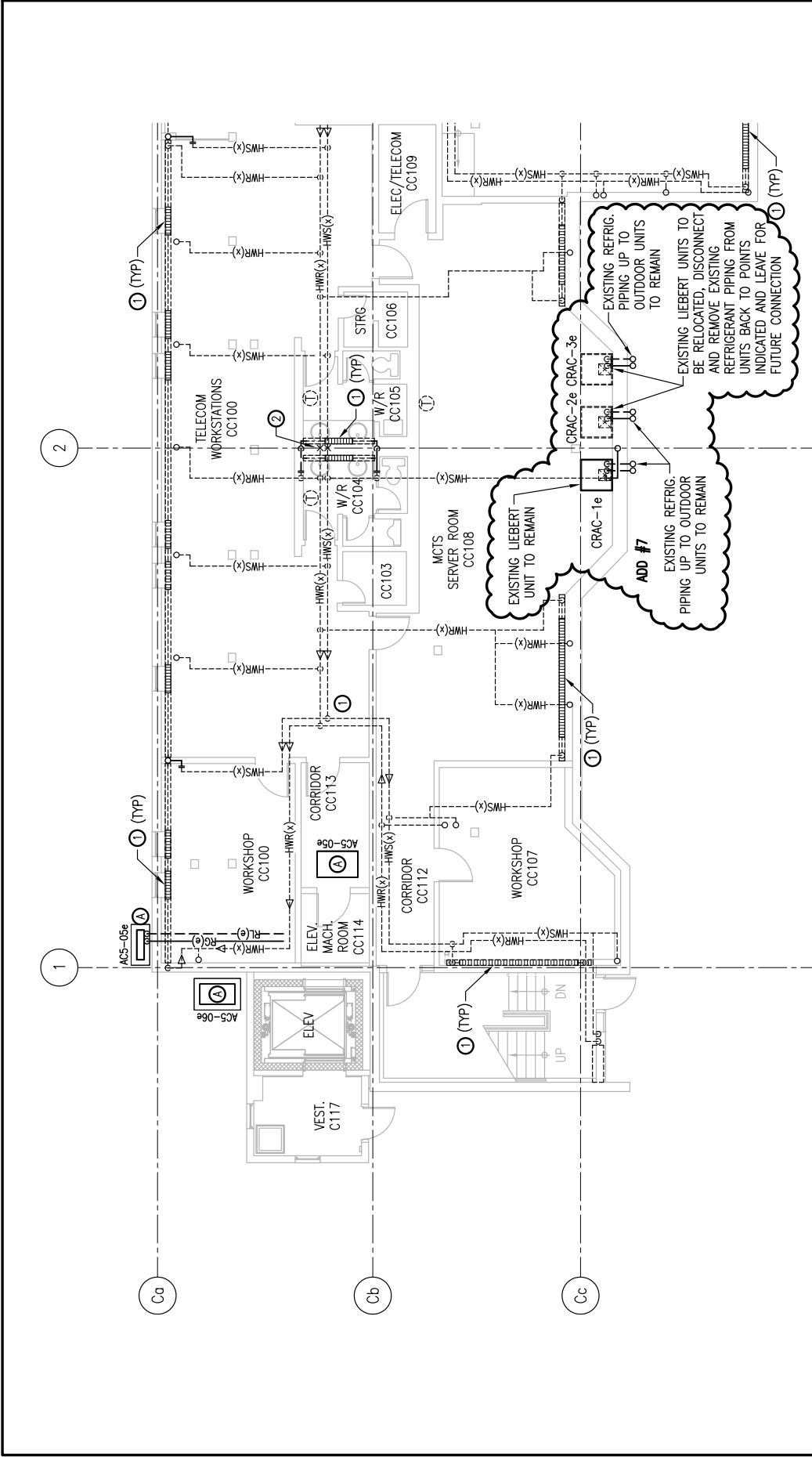
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MC101

N.T.S.

Reference Drawing: 05-MC-101

Addendum #: 7

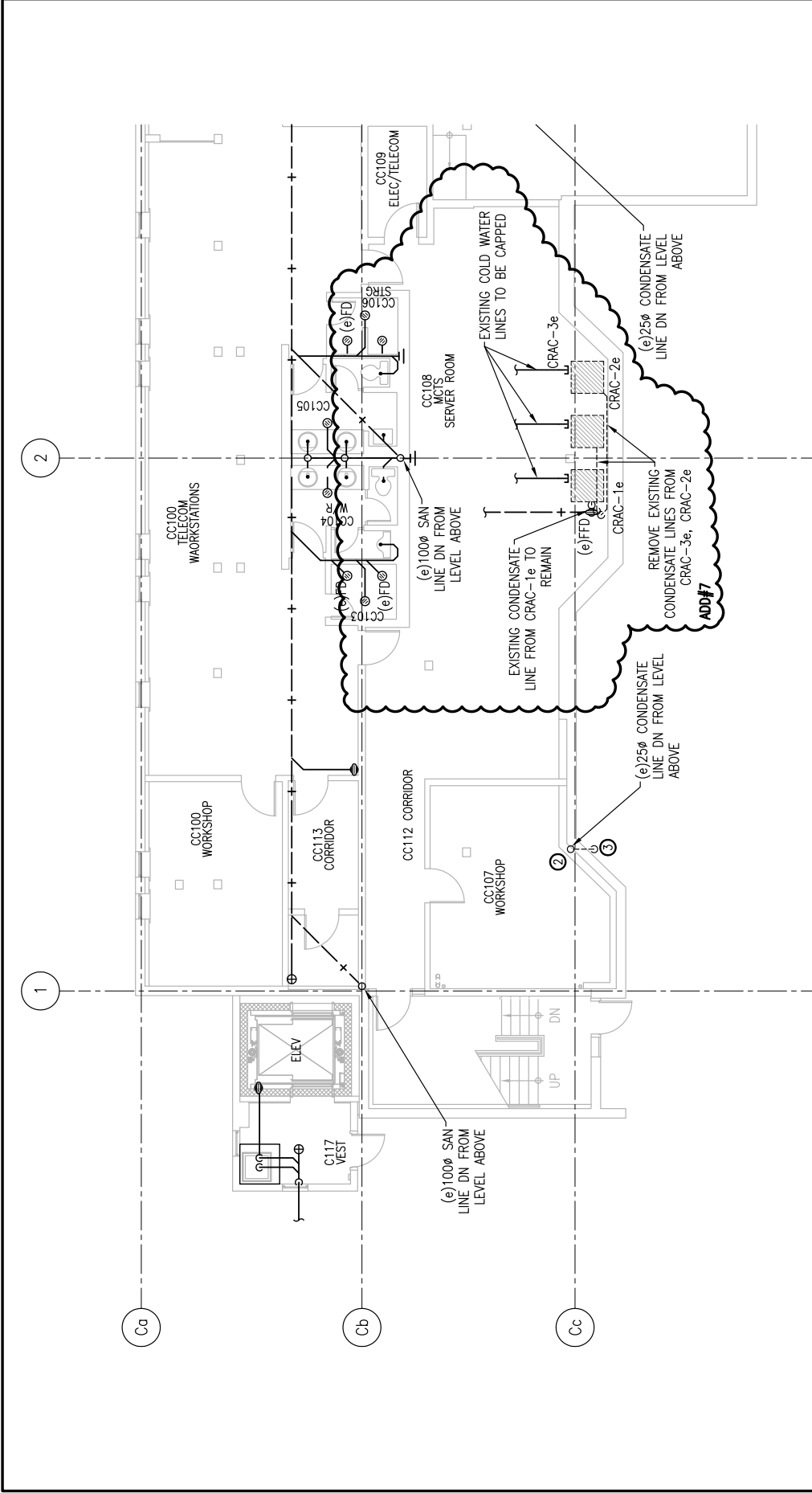
 Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	Drawing title		Titre du dessin		designed	conçu	date
		<b>EXISTING LIEBERT CRAC UNITS CONTROLS</b>		RJK		08/10/18		
				drawn	dessiné	date		
				approved	approuvé	date		
project <b>CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL &amp; SPRINKLER UPGRADES</b>		project project number		no. du projet		drawing no. <b>05-MC-SK001</b>		no. du dessin
Tender Joan Muise PWGSC Project Manager		Submission Administrateur de projets TPSGC						



Reference Drawing: 05-MDH-101

Addendum #: 7

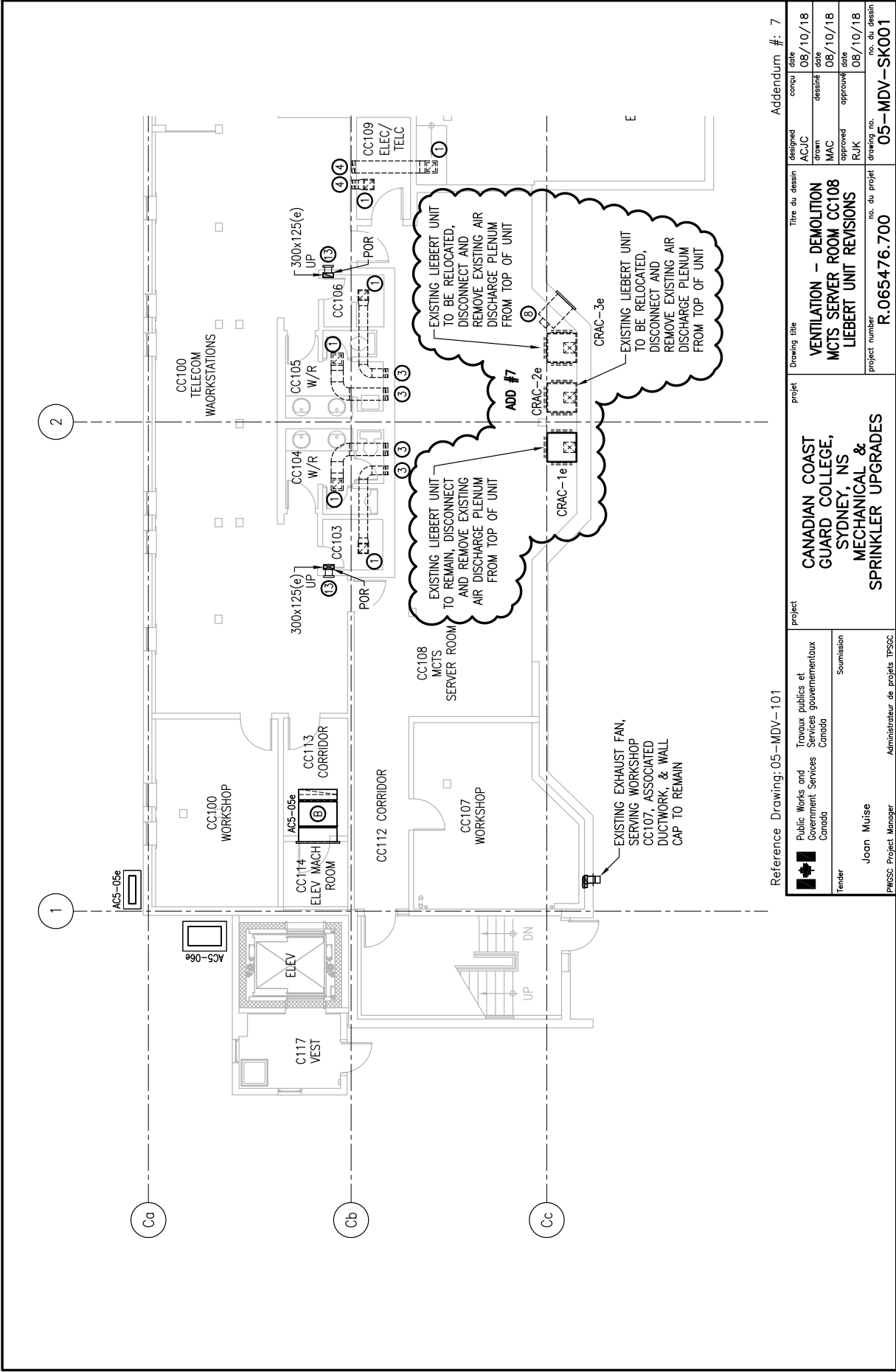
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PWSSC Project Manager		Administrateur de projets TPSSC		MECHANICAL & SPRINKLER UPGRADES	
Soumission		no. du projet		Drawing title	
		R.065476.700		HVAC PIPING – DEMOLITION MCTS SERVER ROOM CC108 LIEBERT UNIT REVISIONS	
		project number		no. du dessin	
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		05-MDH-SK001		MAC	
		05-MDH-SK001		approved	
		05-MDH-SK001		approved	
		05-MDH-SK001		RJK	
		05-MDH-SK001		date	
		05-MDH-SK001		08/10/18	
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Reference Drawing: 05-MDP-101

Addendum #: 7

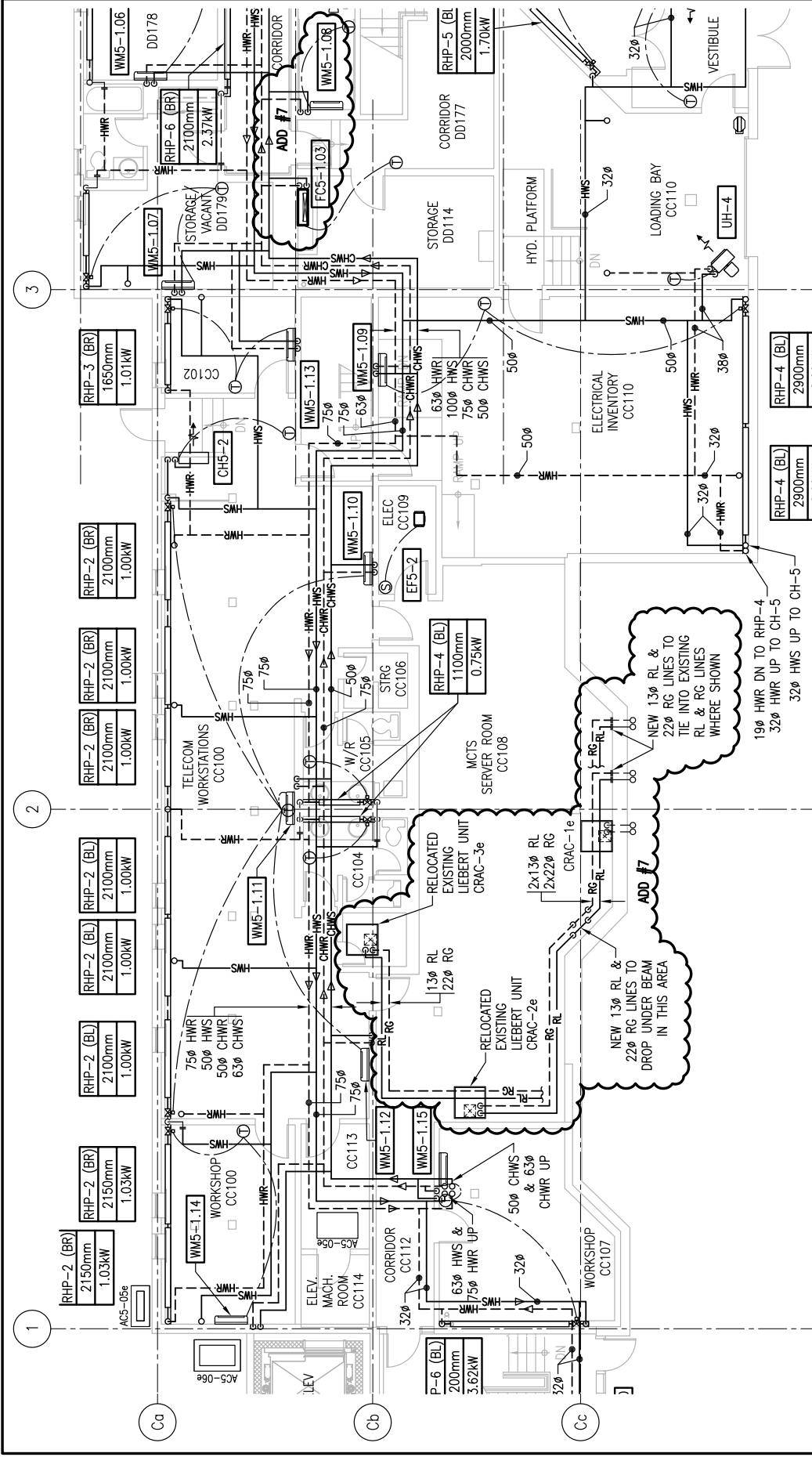
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	Joan Muise PWGSC Project Manager	08/10/18	Administrateur de projets TPSGC						drawn MAC	date 08/10/18
									approved RJK	approval date 08/10/18
									drawing no. 05-MDP-SK001	
									no. du projet R.065476.700	



Reference Drawing: 05-MDV-101

Addendum #: 7

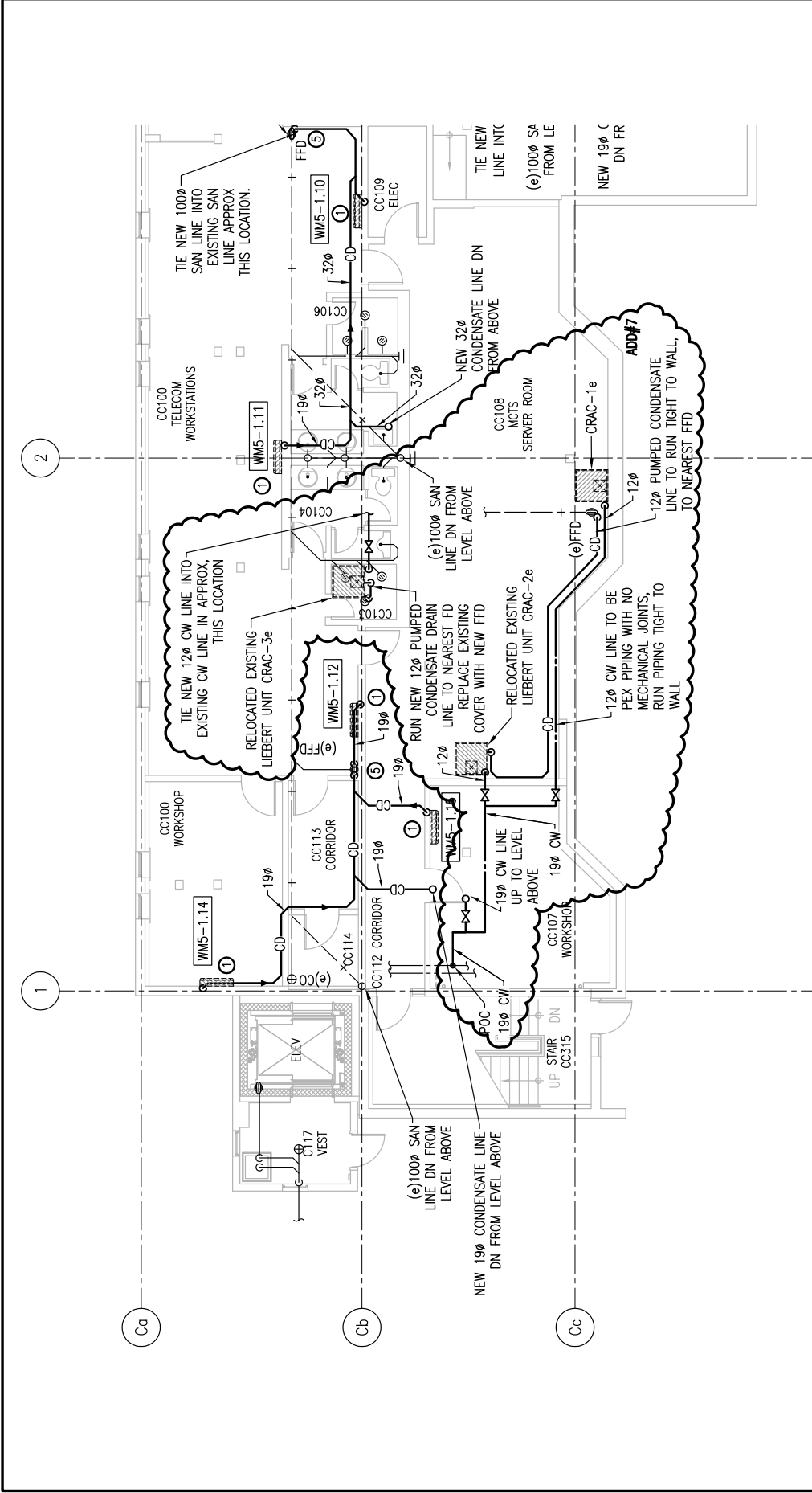
Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	Tender	Joan Muise PWSSC Project Manager	Administration de projets TPSSC	project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project number R.065476.700	Drawing title VENTILATION - DEMOLITION MCTS SERVER ROOM CC108 LIEBERT UNIT REVISIONS	no. du projet 05-MDV-SK001	no. du dessin 05-MDV-SK001	designed ACJC	approved MAC	date 08/10/18	concur date 08/10/18




Reference Drawing: 05-MH-101

Addendum #: 7

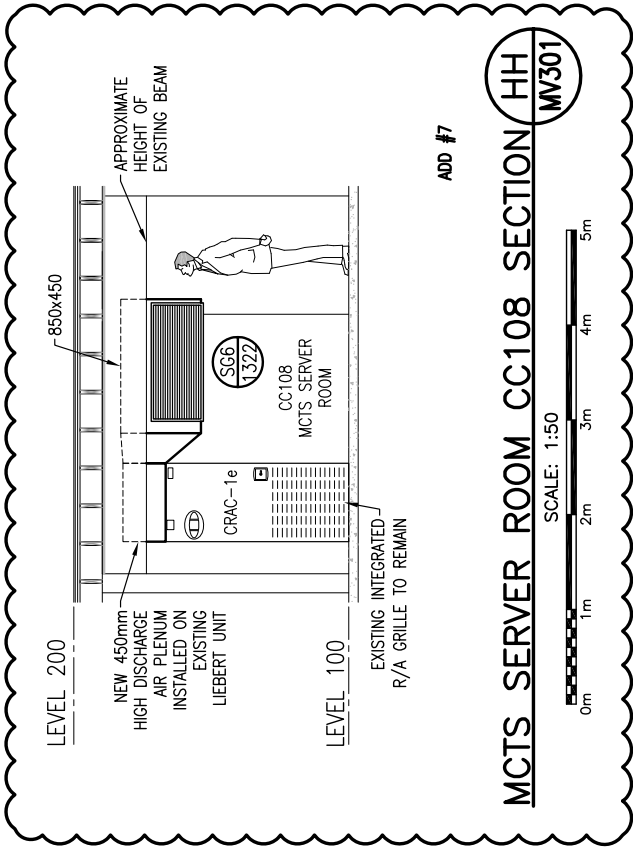
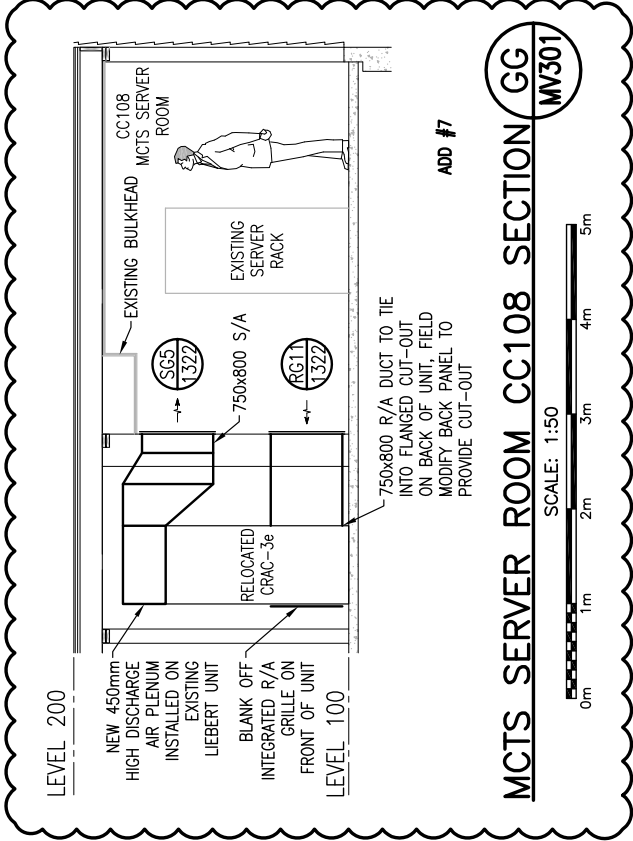
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Reference Drawing: 05-MP-101		Addendum #: 7			
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	Tender		drawing no.		
	Submission		no. du dessin		
	Joan Muise PWSC Project Manager		05-MP-SK002		
Travaux publics et Services gouvernementaux Canada		project		Titrre du dessin	
CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES		PLUMBING - NEW WORK MCTS SERVER ROOM CC108 LIEBERT UNIT REVISIONS		ACJC drawn MAC approved RJK	
08/10/18		no. du projet		08/10/18 08/10/18 08/10/18	
Administrateur de projets TPSC		R.065476.700		05-MP-SK002	
E-DRW/GSD-E: 538447					







Reference Drawing: 05-MV-301

Addendum #: 7


 Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada		project	Drawing title	Titre du dessin	designed ACJC	date 08/10/18		
	Tender								
Joan Muise PWSSC Project Manager		Administration de projets TPSSC		project number R.065476.700	no. du projet	approved MAC	date 08/10/18		
						approved RJK	date 08/10/18		
						drawing no. 05-MV-SK002			

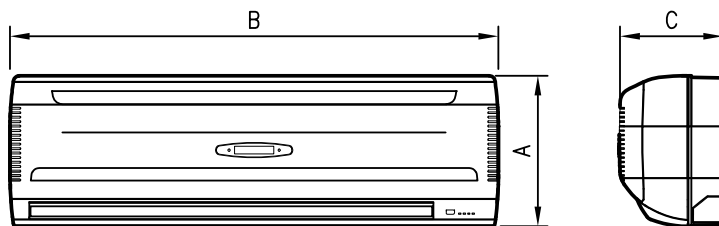
05 – MCTS/MACKENZIE – SIDEWALL SUPPLY GRILLE SCHEDULE								
MARK	TYPE	STYLE	NECK SIZE (mm)	FACE SIZE (L/s)	CAPACITY (L/S)	NC LEVEL	SP (Pa)	COMMENTS
SG5	LOUVERED FACE SUPPLY	DOUBLE DEFLECTION	1200x500	1250x550	1322	NC-20	14.9	ADD #7
SG6	LOUVERED FACE SUPPLY	DOUBLE DEFLECTION	800x750	850x800	1322	NC-20	14.9	
SG7	LOUVERED FACE SUPPLY	DOUBLE DEFLECTION	750x450	800x500	660	NC-19	10.5	

05 – MCTS/MACKENZIE – SIDEWALL RETURN/EXHAUST GRILLE SCHEDULE								
MARK	TYPE	STYLE	GRILLE FACE (mm)	OVERALL SIZE (mm)	CAPACITY (L/S)	NC LEVEL	SP (Pa)	COMMENTS
RG11/EG11	LOUVERED FACE EXHAUST/RETURN	FIXED 45° DEFLECTION	800x750	850x800	1322	NC-30	19.9	ADD #7 –

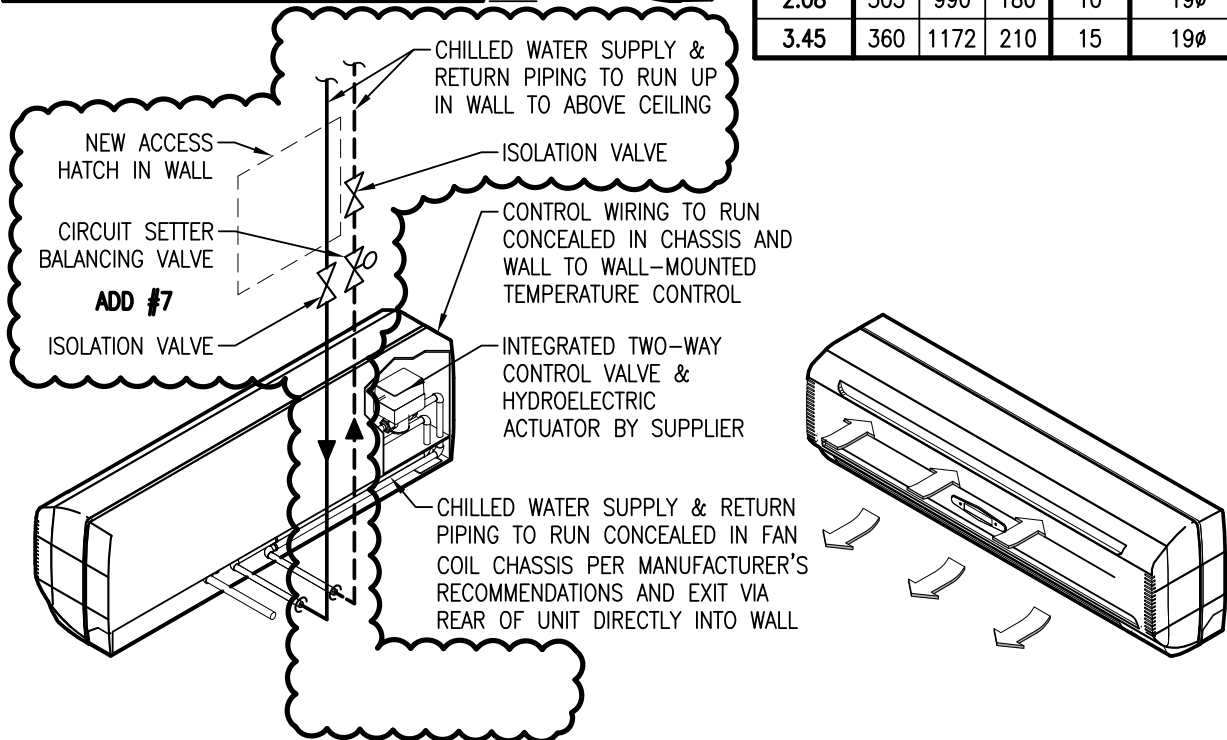
Reference Drawing: 05-MV-601

Addendum #: 7

 Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	project	CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES	project	Drawing title  05 – MCTS – SIDEWALL SUPPLY, EXHAUST, & RETURN GRILLE SCHEDULES REVISIONS	Titre du dessin  05 – MCTS – SIDEWALL SUPPLY, EXHAUST, & RETURN GRILLE SCHEDULES REVISIONS	designed	conçu	date
							drawn	dessiné	date
							MAC	approved	date
							RJK	approved	date
Tender		Joan Muise	08/10/18	drawing no. R.065476.700		no. du dessin 05–MV–SK003			
PWGSC Project Manager		Administrateur de projets TPSGC							




UNIT DIMENSIONS					
NOMINAL CAPACITY (kW)	DIMENSION			WEIGHT (kg)	BRANCH PIPE CONN. (mm)
	A	B	C		
1.45	298	880	180	9	19ø
2.08	305	990	180	10	19ø
3.45	360	1172	210	15	19ø

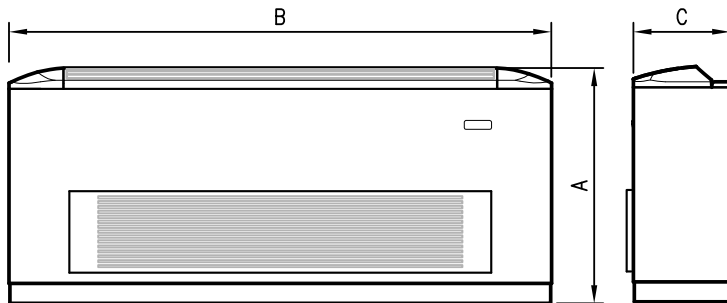


# **WALL MOUNTED FAN COIL DETAILS - 7** **1.45kW, 2.08kW, & 3.45kW** SCALE : N.T.S.

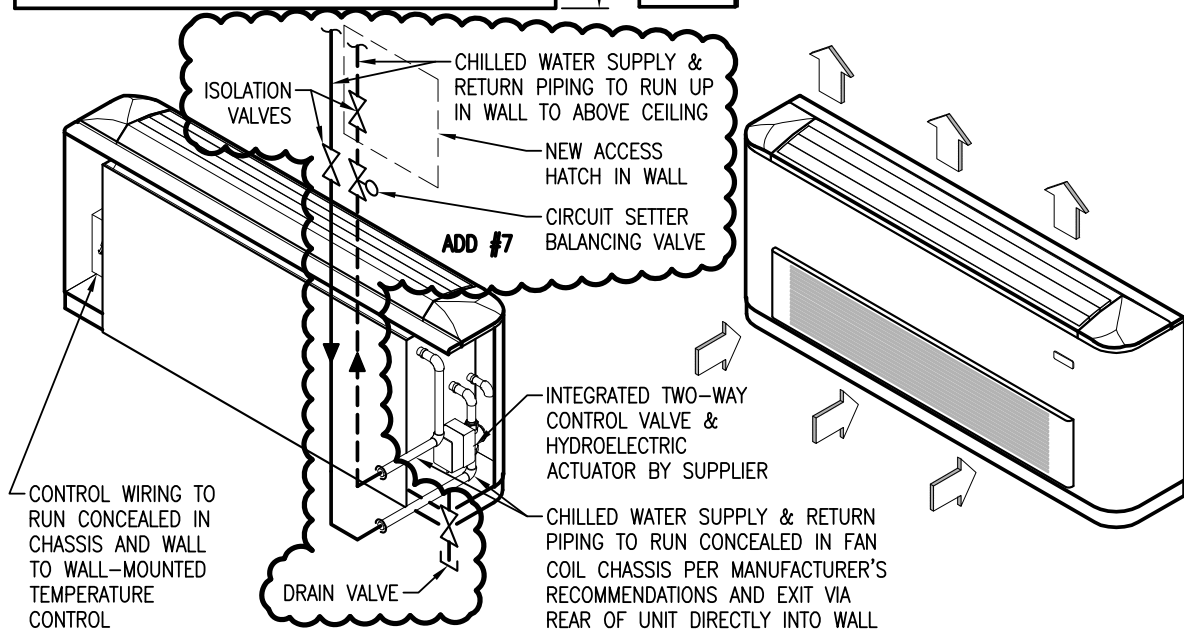
Reference Drawing: 06-MH-502

Addendum #: 7

 Public Works and Government Services Canada		Travaux publics et Services gouvernementaux Canada		Drawing title  HVAC PIPING WALL MOUNTED FAN COIL DETAIL REVISIONS		designed RJK		conçu		date 08/10/18	
project		CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES		project		drawn RAFH		dessiné		date 08/10/18	
						approved RJK		approuvé		date 08/10/18	
				Tender Joan Muise		Soumission					
				PWGSC Project Manager		Administrateur de projets TPSGC					
				project number R.065476.700		no. du projet		drawing no. 06-MH-SK004		no. du dessin	



UNIT DIMENSIONS					
NOMINAL CAPACITY (kW)	DIMENSION			WEIGHT (kg)	BRANCH PIPE CONN. (mm)
	A	B	C		
2.72	487	1200	220	24	19ø
3.53	487	1200	220	24	19ø




## WALL MOUNTED FAN COIL DETAILS – 2.72kW & 3.53kW

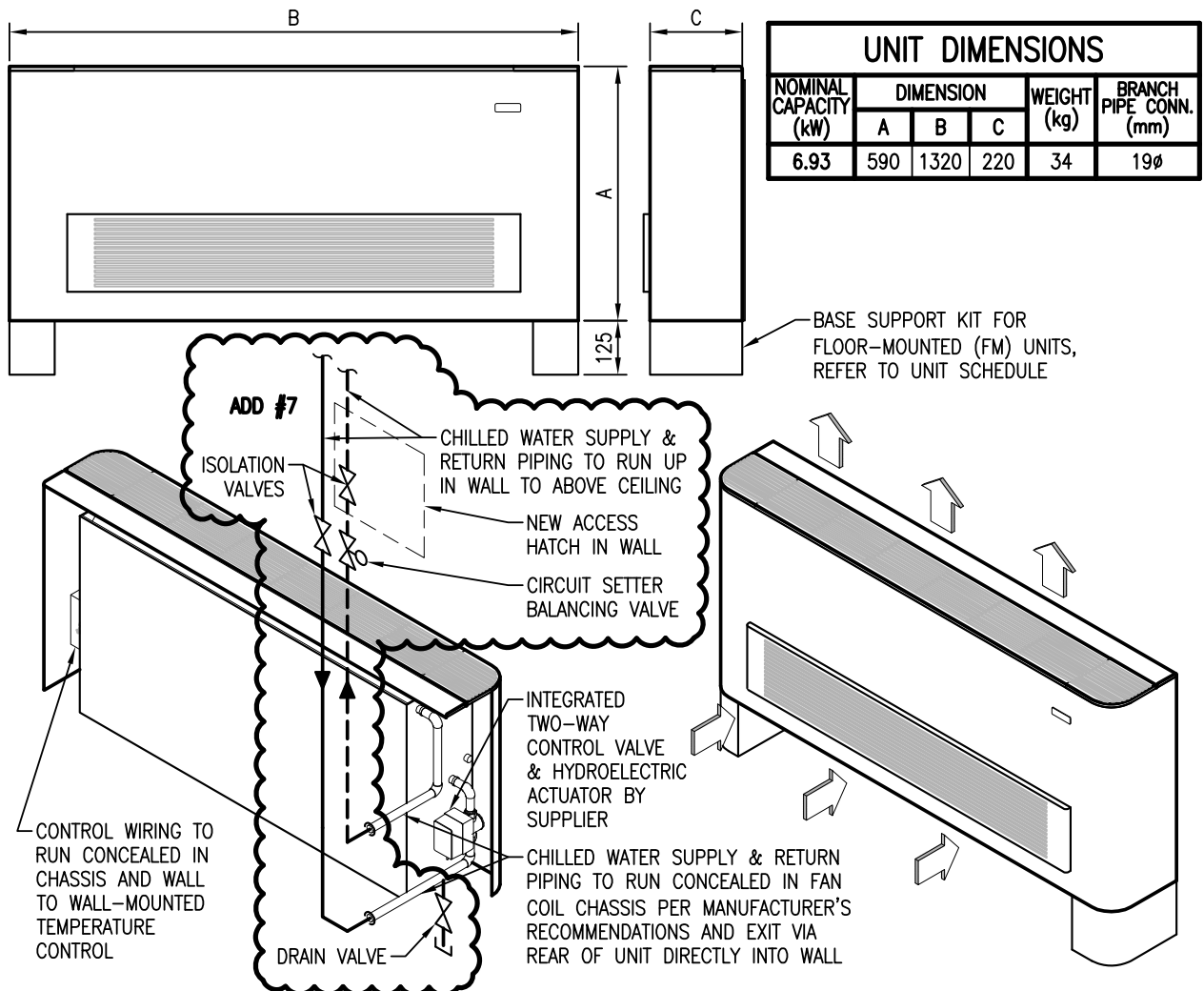
SCALE : N.T.S.

8  
MH502

Reference Drawing: 06-MH-502

Addendum #: 7

 Public Works and Government Services Canada		Travaux publics et Services gouvernementaux Canada		Drawing title  HVAC PIPING WALL MOUNTED FAN COIL DETAIL REVISIONS		designed conçu RJK		date 08/10/18	
project		projet				drawn dessiné RAFH		date 08/10/18	
CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES		approved approuvé RJK				date 08/10/18			
Tender Joan Muise PWGSC Project Manager				Soumission Administrateur de projets TPSGC					
project number				no. du projet		drawing no.		no. du dessin	
R.065476.700						06-MH-SK005			




## WALL & FLOOR MOUNTED FAN COIL DETAILS – 6.93kW

SCALE : N.T.S.

9  
MH502

Reference Drawing: 06-MH-502

Addendum #: 7

 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada		Drawing title Titre du dessin		designed conçu		date	
project  CANADIAN COAST GUARD COLLEGE, SYDNEY, NS MECHANICAL & SPRINKLER UPGRADES project		HVAC PIPING WALL MOUNTED FAN COIL DETAIL REVISIONS		RJK		08/10/18	
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				RAFH		08/10/18	
				approved approuvé		date	
				RJK		08/10/18	
		Tender Joan Muise PWGSC Project Manager		Soumission			
				Administrateur de projets TPSGC			
project number		no. du projet		drawing no.		no. du dessin	
R.065476.700				06-MH-SK006			

