

- NOTES:**
- CONTRACTOR TO VERIFY ALL SITE CONDITIONS, LOCATIONS AND DIMENSIONS PRIOR TO COMMENCING WORK. TRACE OUT ALL SYSTEMS BEFORE INITIATING WORK. COORDINATE SYSTEM SHUT DOWNS & SERVICE INTERRUPTIONS WITH OWNER.
  - PROVIDE ALL MATERIALS & LABOUR REQUIRED TO INSTALL ALL REQUIRED COMPONENTS IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS & DRAWINGS THAT FORM PART OF THIS CONTRACT.
  - DO NOT SCALE FROM DRAWINGS.
  - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
  - INSTALLATION OF VRF HEATING/COOLING SYSTEM SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VRF SYSTEM TO CONTROL AND INTERFACE WITH SUPPLEMENTAL ELECTRIC HEATERS (HEATERS SUPPLIED AND INSTALLED AS PART OF DIV. 26 SCOPE OF WORK). REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND EXACT HEATER LOCATIONS.
  - CONTROL WIRING SHOWN ON THIS DRAWING IS SCHEMATIC IN NATURE. ACTUAL FIELD WIRING MAY DIFFER FROM THAT SHOWN, AND NOT ALL REQUIRED WIRING MAY BE SHOWN. REFER TO OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION WHICH MAY BE APPLICABLE. PROVIDE ALL WIRING AND CONTROLS AS REQUIRED FOR COMPLETE AND FUNCTIONAL BUILDING SYSTEMS.
  - WHERE AN INDOOR UNIT SERVES A ZONE CONTAINING MULTIPLE ELECTRIC HEATERS, THEN THE VRF HEATING INTERLOCK SHALL CONTROL ALL HEATERS. THIS MAY REQUIRE ADDITIONAL CONTROL WIRING WHICH IS NOT SHOWN. REFER TO ELECTRICAL DRAWINGS FOR HEATER CIRCUITING AND COORDINATE WITH DIV. 26.

B	ISSUED FOR TENDER	JUN 28 2017
A	ISSUED FOR 99% REVIEW	MAY 25 2017
revisions		date
project		project

**MCTS CENTRE  
 PORT AUX BASQUES**

**MECHANICAL CONTROL PLANS AND SECTIONS**

designed	D.W.	conqu
date	JUNE 28, 2017	
drawn	T.B.	dessiné
date	JUNE 28, 2017	
approved		approuvé
date	JUNE 28, 2017	
Tender	J.P. MacGillivray July 14/17	
Project Manager	Administrateur des projets TPSC	
project number		no. du projet

**R.082780.004**  
 drawing no. no. du dessin  
**M11**

**ROOM NAME LIST - LEVEL 1**

- 100 VESTIBULE
- 101 LOBBY
- 102 RECEPTION
- 103 CORRIDOR
- 104 SHARED EQUIPMENT (COPIER)
- 105 E&I HEATED STORAGE
- 106 LAN ROOM
- 107 E&I ELECTRONICS EQUIPMENT ROOM
- 108 STAIR #2
- 109 MOCK-UP SPACE
- 110 WORKSPACE - DIRTY
- 111 MCTS STORAGE
- 112 CORRIDOR
- 113 VESTIBULE
- 114 E&I CLEAN WORKSHOP
- 115 WORKSTATION #1
- 116 WORKSTATION #2
- 117 PERSONAL STORAGE AREA
- 118 WORKSTATION #3
- 118A WORKSTATION #4
- 119 PACE SOLDERING STATION
- 120 INNAV TECH/AUTOCAD
- 121 STORAGE
- 122 GENERATOR ROOM
- 123 ELECTRICAL ROOM
- 124 KITCHEN
- 125 WATER ENTRY
- 126 RECYCLING
- 127 STAIR #1
- 128 CORRIDOR
- 128A CORRIDOR
- 129 FEMALE WASHROOM
- 130 JANITOR
- 131 MALE WASHROOM
- 132 ELEVATOR

**ROOM NAME LIST - LEVEL 2**

- 200 STAIR #1
- 201 CORRIDOR
- 202 LOBBY
- 203 MECHANICAL ROOM
- 204 MCTS OFFICE
- 205 JANITOR
- 206 MCTS DEBRIEF
- 207 WASHROOM
- 208 WASHROOM
- 209 MCTS OPERATIONS ROOM
- 210 STAIR #2
- 211 SHARED BOARDROOM/TRAINING
- 212 MCTS KITCHEN
- 213 CORRIDOR
- 214 CORRIDOR
- 215 MCTS LOCKER ROOM
- 216 SHOWER ROOM
- 217 ELEVATOR

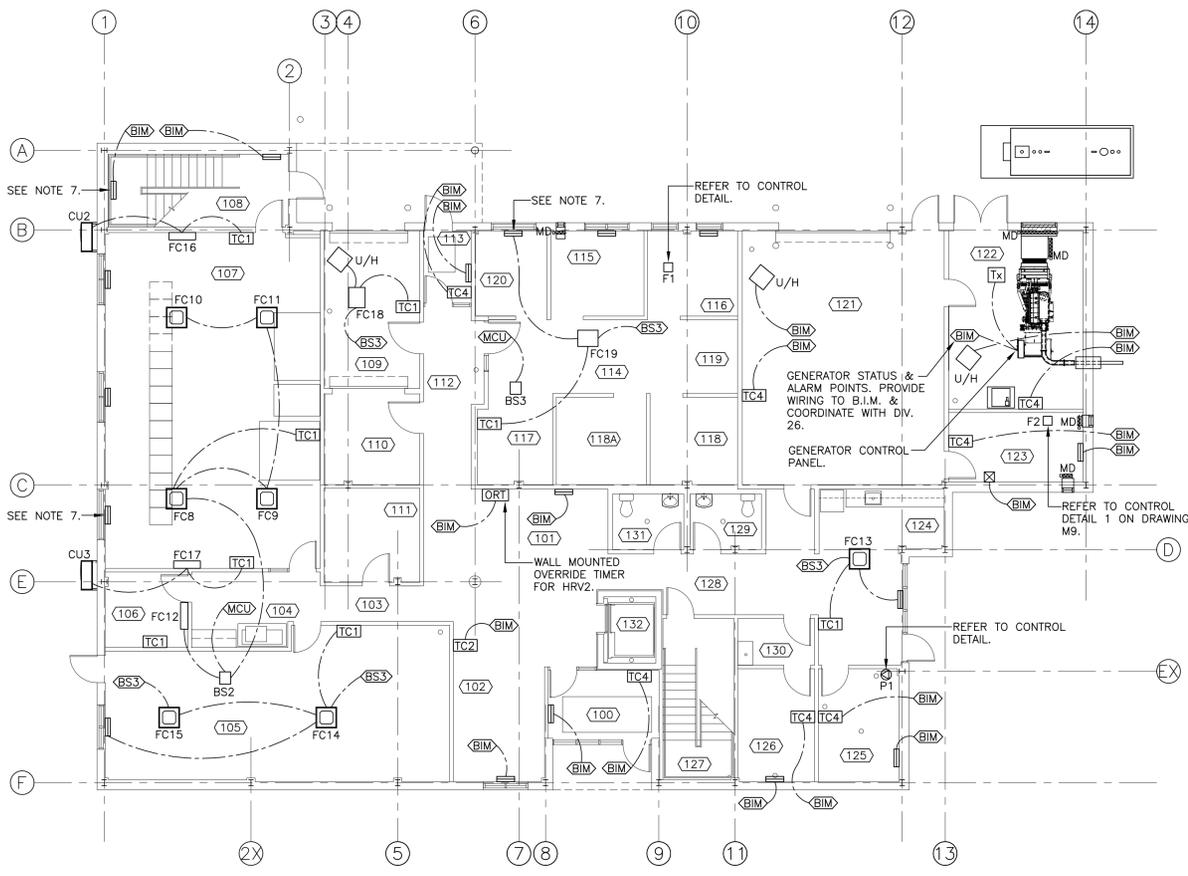
**LEGEND**

- MCU MASTER CONTROL UNIT
- TC1 TEMPERATURE CONTROLLER TYPE 1 (VRF HEATING/COOLING)
- TC2 TEMPERATURE CONTROLLER TYPE 2 (BACNET HEATING ONLY)
- TC3 TEMPERATURE CONTROLLER TYPE 3 (BACNET HEATING/COOLING)
- TC4 TEMPERATURE CONTROLLER TYPE 4 (BACNET TEMPERATURE SENSING ONLY)

CONTROL WIRING, SUPPLIED & INSTALLED BY VRF CONTROLS CONTRACTOR. TYPE, SIZE, NUMBER & GAUGE OF WIRE TO BE IN ACCORDANCE WITH SYSTEM MANUFACTURER'S RECOMMENDATION. SEE NOTE 6.

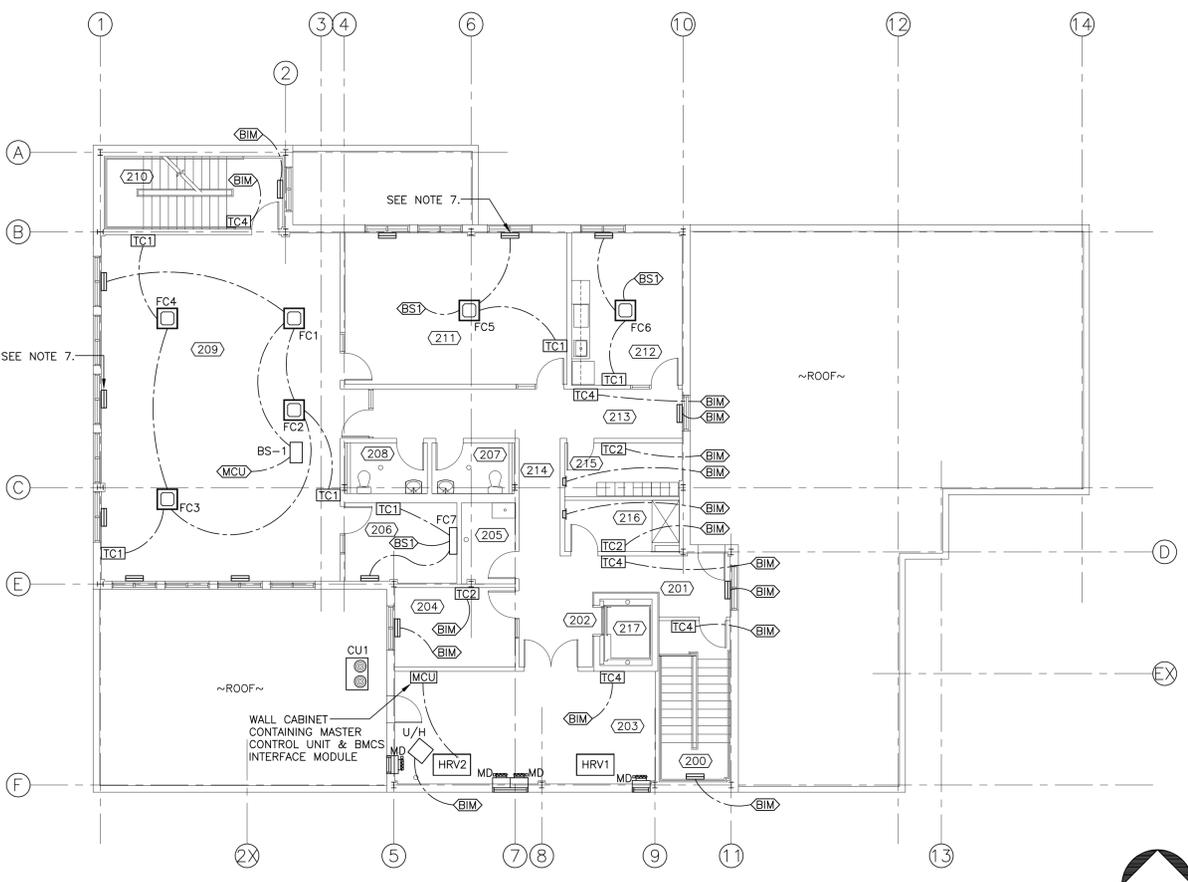
- BIM INDICATES THAT CONTROL WIRING CONNECTS TO BMCS INTERFACE MODULE
- MCU INDICATES THAT CONTROL WIRING CONNECTS TO MASTER CONTROL UNIT (VIA OUTDOOR UNIT).
- Low voltage heating thermostat (supplied & installed as part of Div. 26).
- Low voltage heating thermostat (supplied & installed as part of Div. 23).
- Transformer (supplied & installed as part of Div. 26).
- HGDS HAZARDOUS GAS DETECTION SYSTEM
- CO CARBON DIOXIDE SENSOR
- NO NITROUS OXIDE SENSOR
- MANUAL MOTOR STARTER
- MAGNETIC MOTOR STARTER
- COMBINATION MAGNETIC MOTOR STARTER
- DISCONNECT SWITCH
- ORT OVERRIDE TIMER

A - PLAN, SECTION, ELEVATION, OR DETAIL NUMBER  
 B - NUMBER OF THE DRAWING WHERE THE ABOVE IS DRAWN



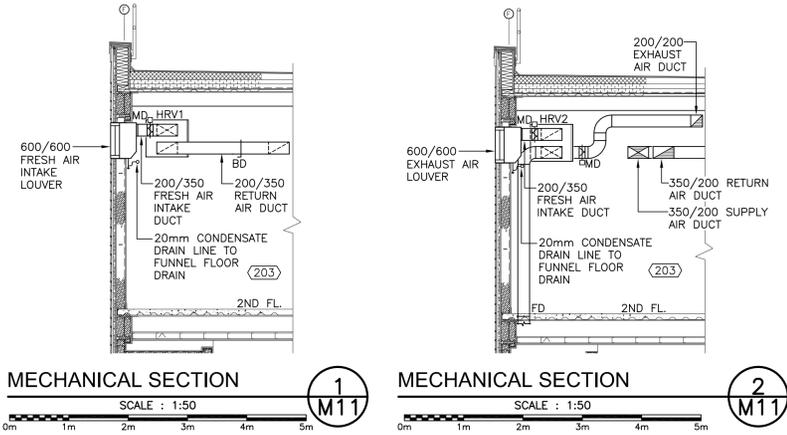
**CONTROLS PLAN - LEVEL 1**

SCALE : 1:100

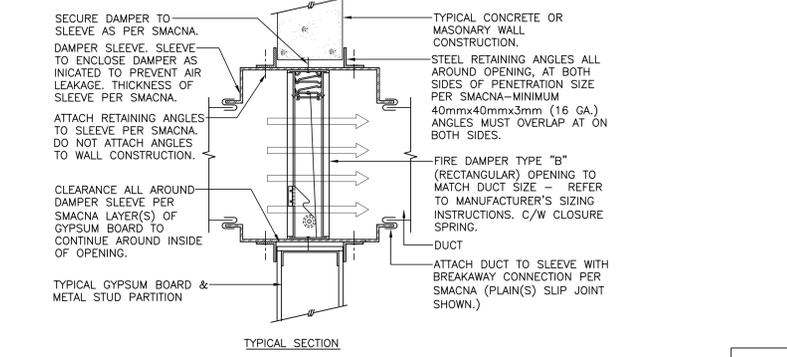


**CONTROLS PLAN - LEVEL 2**

SCALE : 1:100

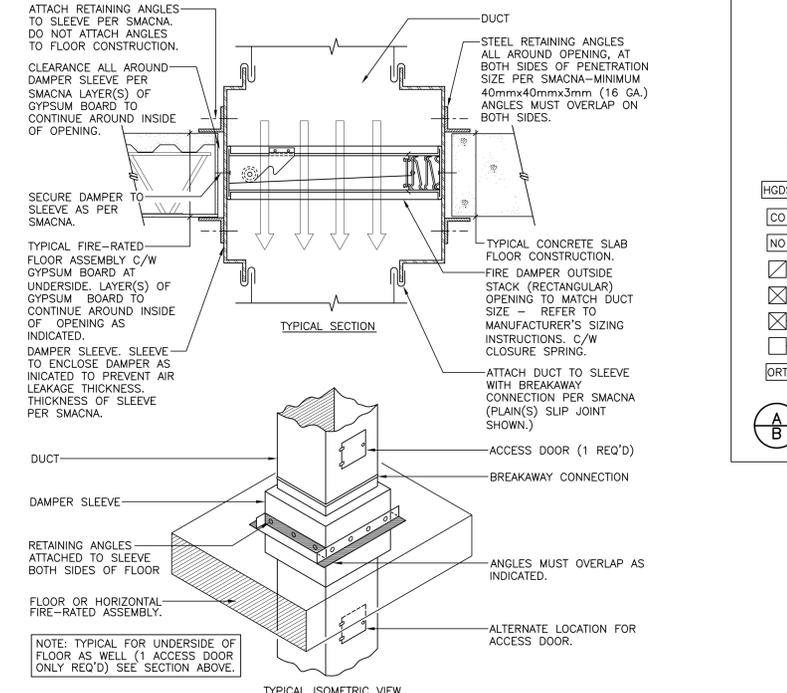


**MECHANICAL SECTION**  
 SCALE : 1:50



**FIRE DAMPER DETAIL - HORIZONTAL DUCT**

SCALE : N.T.S.



**FIRE DAMPER DETAIL - VERTICAL DUCT**

SCALE : N.T.S.