

DRAWING LIST	
M1	DRAWING LIST & LEGEND
M2	GATEHOUSE LEVEL 1 HEATING PLAN
M3	GATEHOUSE LEVEL 2 HEATING PLAN
M4	GATEHOUSE LEVEL 1 VENTILATION PLAN
M5	GATEHOUSE LEVEL 2 VENTILATION PLAN
M6	GATEHOUSE MECHANICAL LEVEL VENTILATION & HEATING
M7	GATEHOUSE SCHEMATICS & DETAILS
M8	DISSOCIATION & SEGREGATION MECHANICAL ROOM
M9	DISSOCIATION & SEGREGATION SCHEMATICS
M10	DISSOCIATION & SEGREGATION SCHEMATICS & DETAILS

GENERAL NOTES:

1. CONTRACTOR TO ALLOW FOR MODIFICATIONS TO EXISTING PIPING TO ACCOMMODATE REPLACEMENT OF NEW CONTROL VALVES.
2. CONTRACTOR TO ALLOW FOR REPAIRS AND PAINTING OF WALLS FOR NEW THERMOSTATS.
3. CONTRACTOR SHALL REPAIR PIPE INSULATION BACK TO NEW CONDITION.

HVAC SYMBOLS

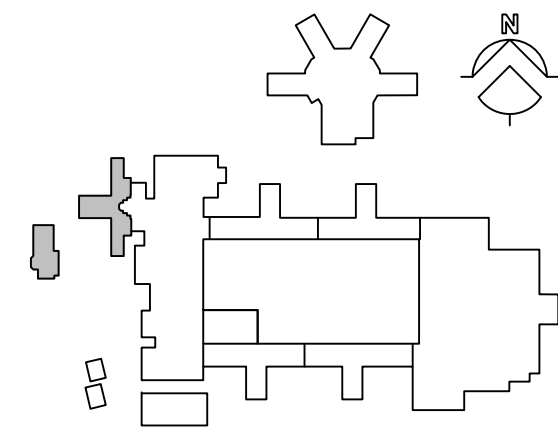
	RECTANGULAR DUCT
	EXTERIOR DUCT INSULATION
	RECTANGULAR DUCT (WITH ACOUSTIC INSULATION)
	ROUND DUCT
	PARALLEL BLADE DAMPER
	OPPOSED BLADE DAMPER
	DOUBLE LINE DUCT INCLINE
	SQUARE ELBOW TURN (SUPPLY UP/DOWN)
	SQUARE ELBOW TURN (RETURN UP/DOWN)
	SQUARE ELBOW TURN (EXHAUST UP/DOWN)
	SQUARE ELBOW TURN (INTAKE UP/DOWN)
	ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN)
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH, SQUARE TO ROUND
	TEE, 45 DEG., ROUND MAIN AND BRANCH
	CONICAL WYE, 45 DEG., ROUND MAIN AND BRANCH
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT)
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT)
	ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)
	ELBOW, RECTANGULAR, MITERED WITH TURNING VANES
	ELBOWS, 90 DEG., RECTANGULAR TEE
	ELBOW, 90 DEG., RECTANGULAR WYE
	45 DEG. WYE, CONICAL MAIN AND BRANCH, ROUND
	TRANSITION, RECTANGULAR, PYRAMIDAL (30° CONTRACTUAL ANGLE DEFAULT)
	TRANSITION, RECTANGULAR, SIDE (30° CONTRACTUAL ANGLE DEFAULT)

	FIRE SMOKE DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	DUCT MOUNTED SMOKE SENSOR
	SINGLE-LINE DUCT INCLINE
	SINGLE-LINE DUCT BRANCH
	SINGLE-LINE DUCT TAKEOFF
	DUCT CAP
	DUCT BREAK
	SINGLE-LINE SUPPLY OR RETURN DUCT
	SINGLE-LINE EXHAUST DUCT
	THERMOSTAT
	HUMIDISTAT
	FLEX DUCT (DOUBLE LINE)
	FLEX DUCT (SINGLE LINE)
	WALL MOUNTED GRILLE/REGISTER
	LINEAR DIFFUSER
	SINGLE SLOT TROFFER
	DOUBLE SLOT TROFFER
	CEILING DIFFUSER 600x600/300x300
	AIR FLOW ARROWS
	SINGLE LINE CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	200mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	250mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	300mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	2-250mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	2-300mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	3-300mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	4-300mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT

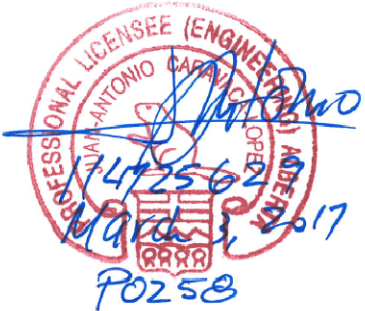
	DOMEXHAUST FAN (ROOF OR WALL MOUNTED)
	CEILING FAN
	HEATING/COOLING COIL TAG (REFER TO SCHEDULE)
	HC - HEATING COIL
	CC - COOLING COIL
	RHC - REHEAT COIL
	PHC - PREHEAT COIL
	HRC - HEAT RECLAIM
	HORIZONTAL HOT WATER UNIT HEATER TAG (REFER TO SCHEDULE)
	PROJECTION HOT WATER UNIT HEATER TAG (REFER TO SCHEDULE)
	NEW FINNED TUBE RADIATION
	EXISTING FINNED TUBE RADIATION
	RADIANT PANEL
	AIR OUTLET TAG (REFER TO SCHEDULE)
	DOOR GRILLE TAG (REFER TO SCHEDULE)
	RADIATION HEATING TAG (REFER TO SCHEDULE)

Architectural & Engineering Services
Pacific-Western Region

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KEY PLAN



Stantec project number
114725629

4	ISSUED FOR TENDER	03/03/2017
3	ISSUED FOR PRE-TENDER	06/13/2016
2	99% QA/QC REVIEW	03/18/2016
1	50% REVIEW	02/03/2016
0	50% DESIGN PACKAGE	02/03/2016
revision		date

<div>A C</div>	A detail no. no. du détail B location drawing no. sur dessin no. C drawing no. dessin no.	<div>A B C</div>
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project

EDMONTON, ALBERTA

MAXIMUM SECURITY
INSTITUTION
DISSOCIATION & SEGREGATION
AND GATE HOUSE
HEATING CONTROLS

project

drawing

dessin

DRAWING LIST & LEGEND

designed by

conçu par

BN

drawn by

dessiné par

BN

approved by

approuvé par

TCL

PWGSC project manager

JAMES PATTISON

project number

num. du projet

R.077218.001

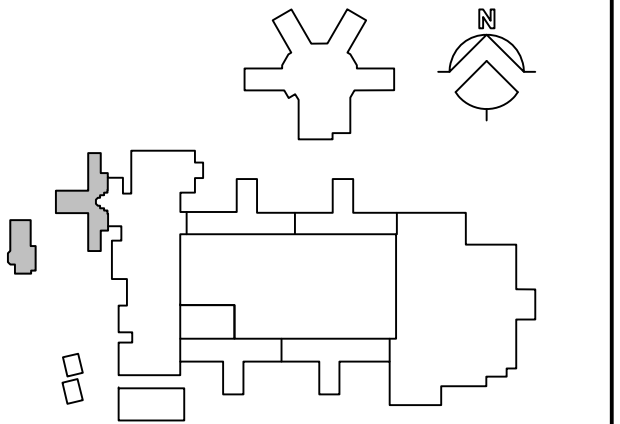
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M1 OF 10



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project
EDMONTON, ALBERTA

**MAXIMUM SECURITY
INSTITUTION
DISSOCIATION & SEGREGATION
AND GATE HOUSE
HEATING CONTROLS**

drawing
**GATEHOUSE LEVEL 1 HEATING
PLAN**

designed by
BN

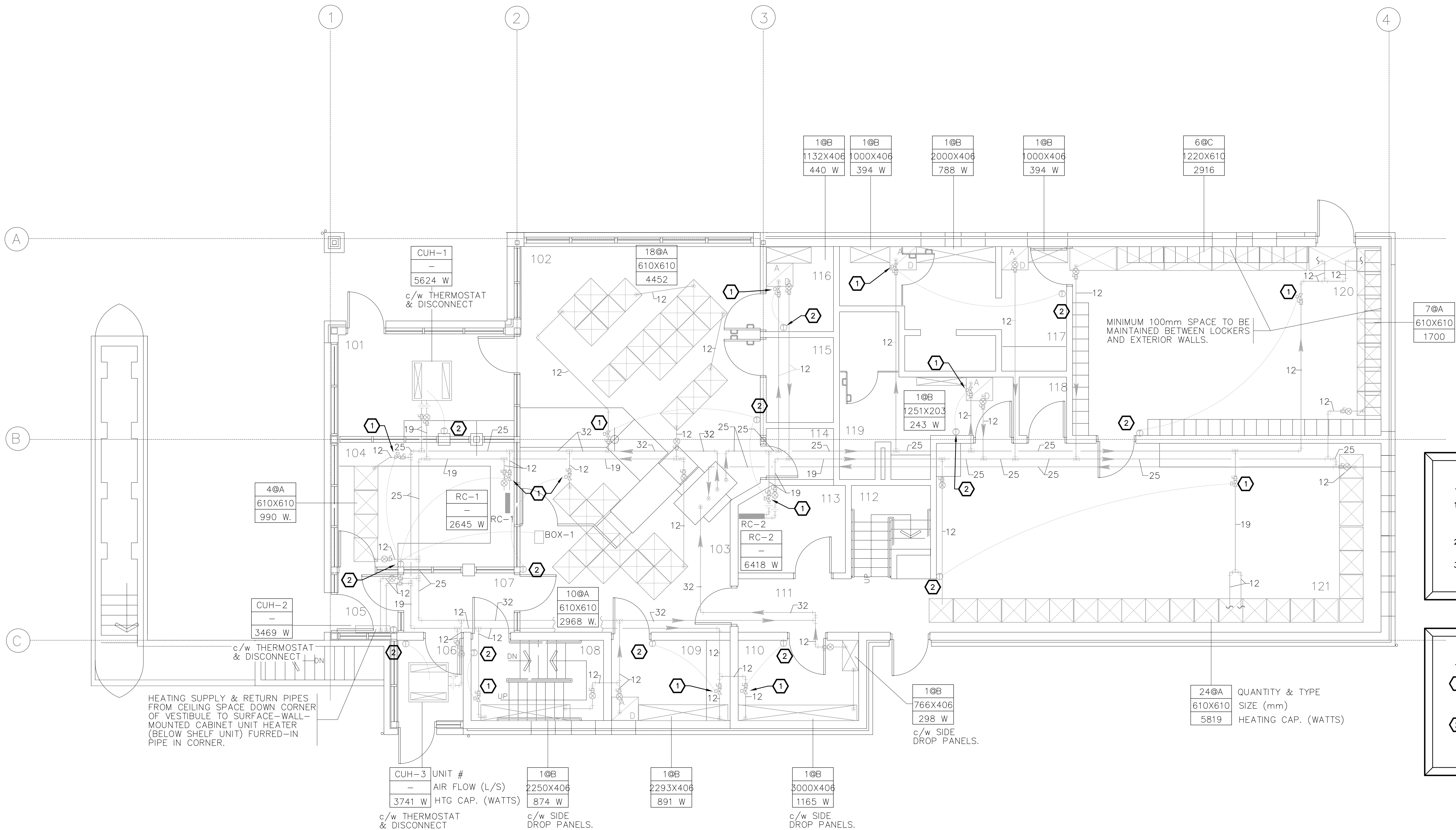
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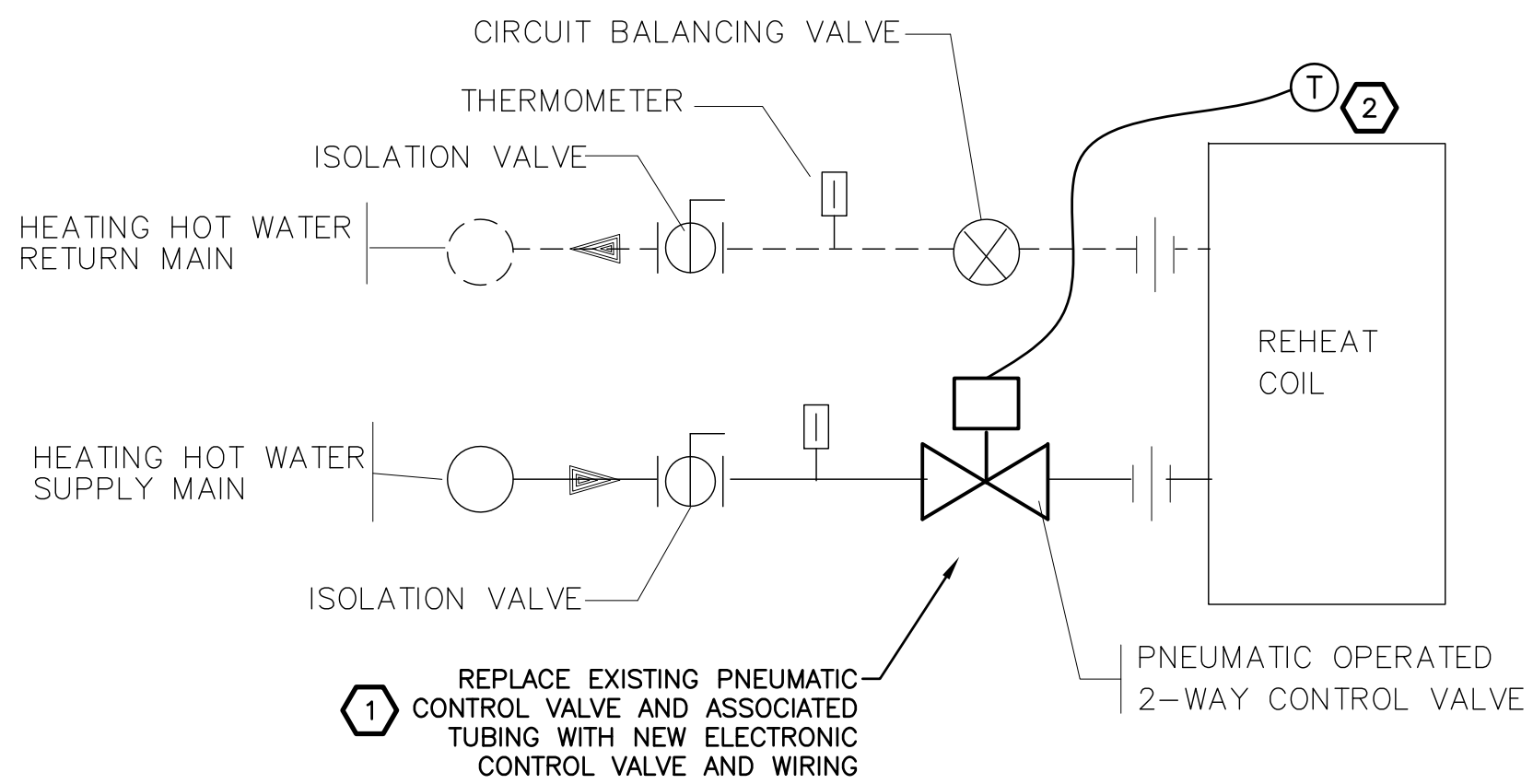
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JAMES PATTISON

project number
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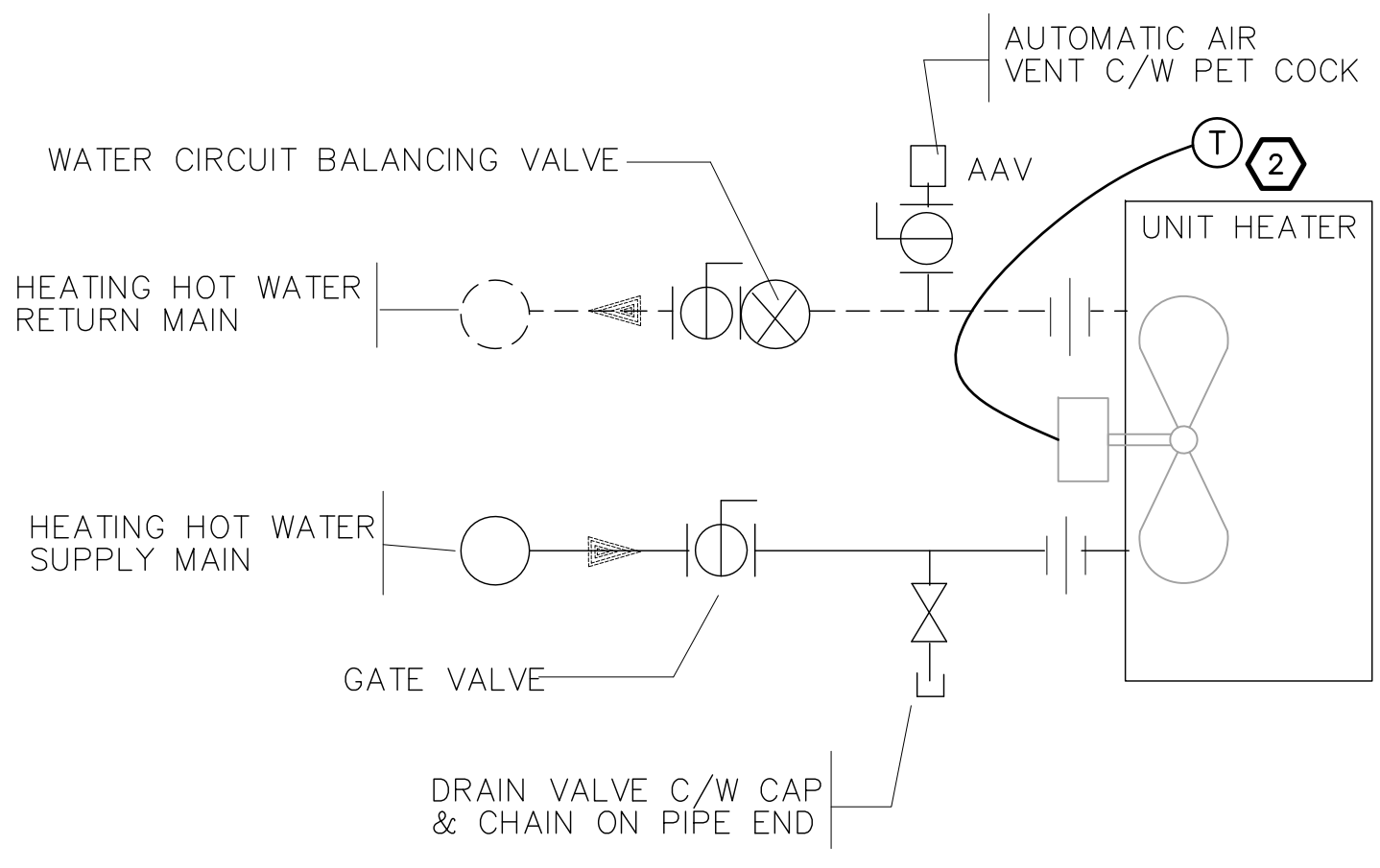
drawing number
M2 OF 10



A LEVEL 1 PLAN
M2 1:50



B EXISTING REHEAT COIL & RADIANT PANEL PIPING DETAIL
M2 NTS



C EXISTING UNIT HEATER & CABINET UNIT HEATER PIPING DETAIL
M2 NTS

GENERAL NOTES:

- CONTRACTOR TO ALLOW FOR MODIFICATIONS TO EXISTING PIPING TO ACCOMMODATE REPLACEMENT OF NEW CONTROL VALVES.
- CONTRACTOR TO ALLOW FOR REPAIRS AND PAINTING OF WALLS FOR NEW THERMOSTATS.
- CONTRACTOR SHALL REPAIR PIPE INSULATION BACK TO NEW CONDITION.

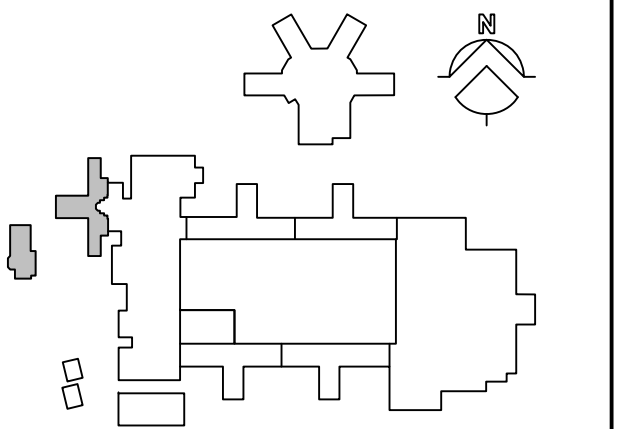
KEY NOTES:

- REMOVE EXISTING PNEUMATIC VALVE AND ASSOCIATED PNEUMATIC TUBING - REPLACE WITH NEW ELECTRONIC CONTROL VALVE AND WIRING
- REMOVE EXISTING PNEUMATIC THERMOSTAT AND REPLACE WITH NEW ELECTRONIC THERMOSTAT

QUANTITY & TYPE	SIZE (mm)	HEATING CAP. (WATTS)
24@A	610X610	5819



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	C drawing no. dessin no.	C

project
EDMONTON, ALBERTA

project
MAXIMUM SECURITY
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DISSOCIATION & SEGREGATION
AND GATE HOUSE
HEATING CONTROLS

drawing
GATEHOUSE LEVEL 2 HEATING
PLAN

designed by
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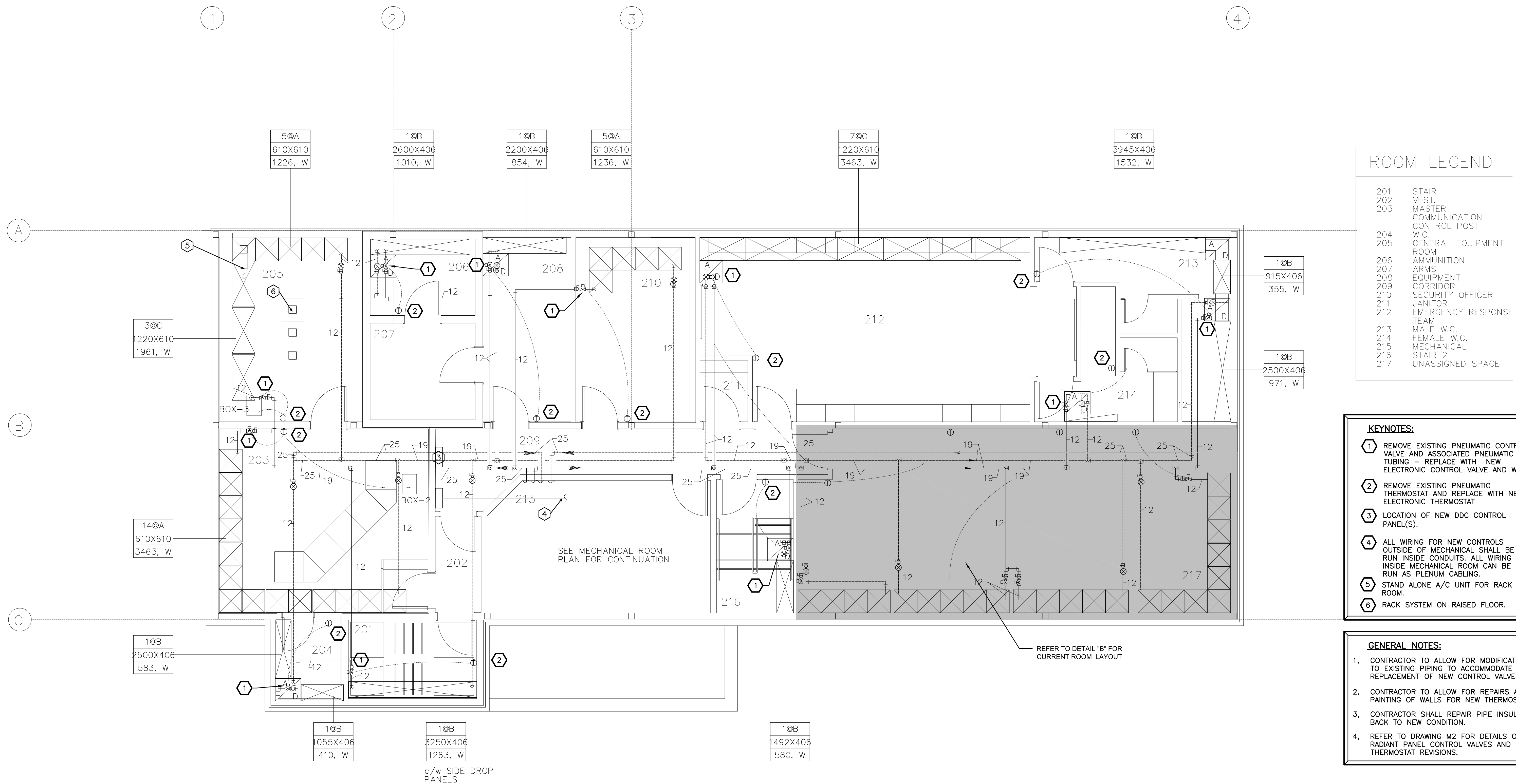
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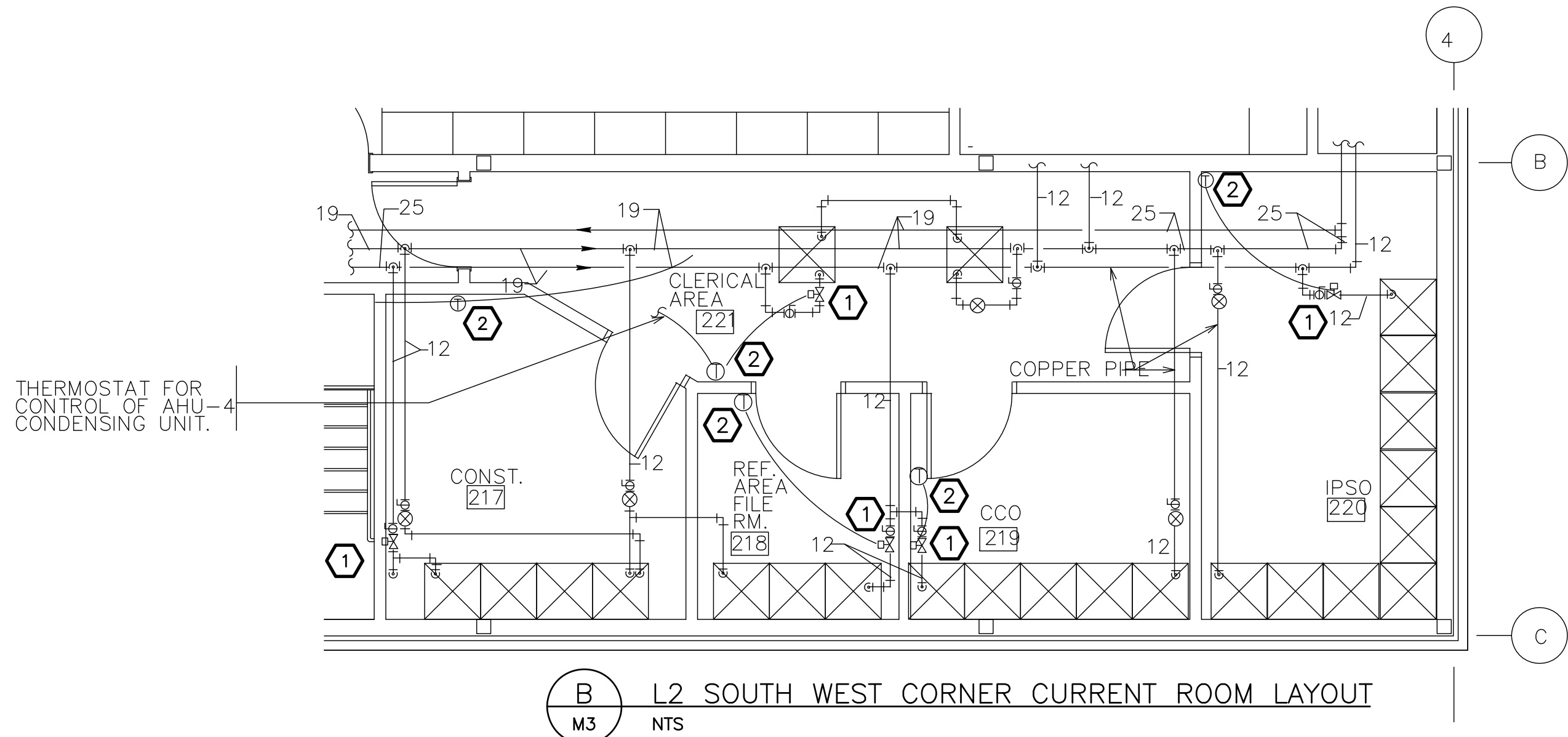
PWGSC project manager
JAMES PATTISON

project number
R.077218.001

drawing number
M3 OF 10



A LEVEL 2 PLAN
M3 1:50



B L2 SOUTH WEST CORNER CURRENT ROOM LAYOUT
M3 NTS

DAMPER BOX DIRECTORY

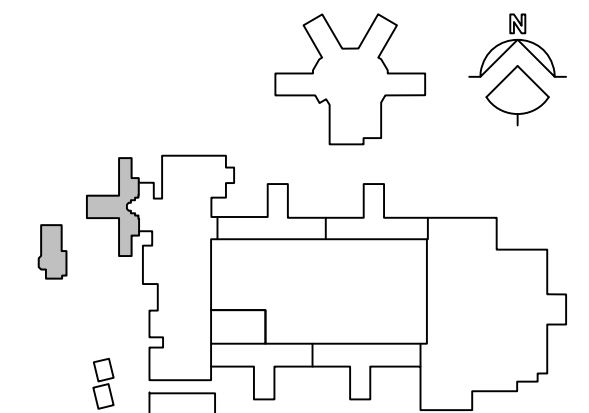
ZONE	DAMPER CONTROL BOX	BOX SIZE (mm)	AIR FLOW RATE (liters/sec.)	
1	---	---	566	M4
2	---	230	236	M5
3	---	200	142	M6

ROOM LEGEND

101	IN VESTIBULE
102	WAITING AREA
103	RECEPTION
104	CONTROL
105	VEST. 1
106	VEST. 2
107	OUT VESTIBULE
108	STAIR 1
109	SEARCH
110	ELECTRICAL1
111	CORRIDOR
112	STAIR 2
113	ELECTRICAL 2
114	JANITOR
115	WOMANS
116	MENS
117	MENS
118	FEMALE
119	STOR.
120	LOCKER ROOM
121	MUSTER



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	C drawing no. dessin no.	C

project project

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MAXIMUM SECURITY
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DISSOCIATION & SEGREGATION
AND GATE HOUSE
HEATING CONTROLS

drawing dessin

GATEHOUSE LEVEL 1
VENTILATION PLAN

designed by conçu par
BN

drawn by dessiné par
BN

approved by approuvé par
TCL

PWGSC project manager

JAMES PATTISON

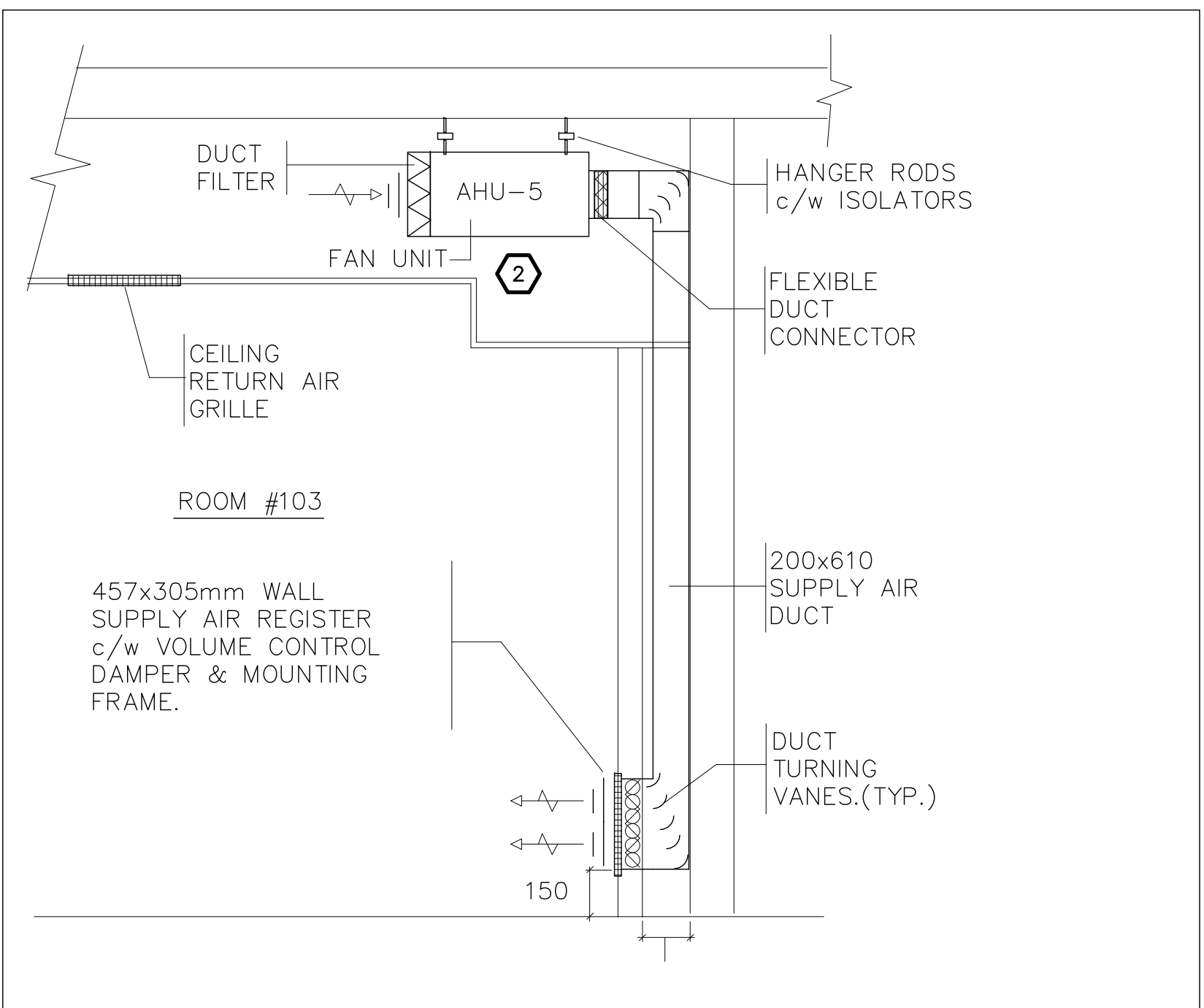
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R.077218.001

drawing number num. du dessin

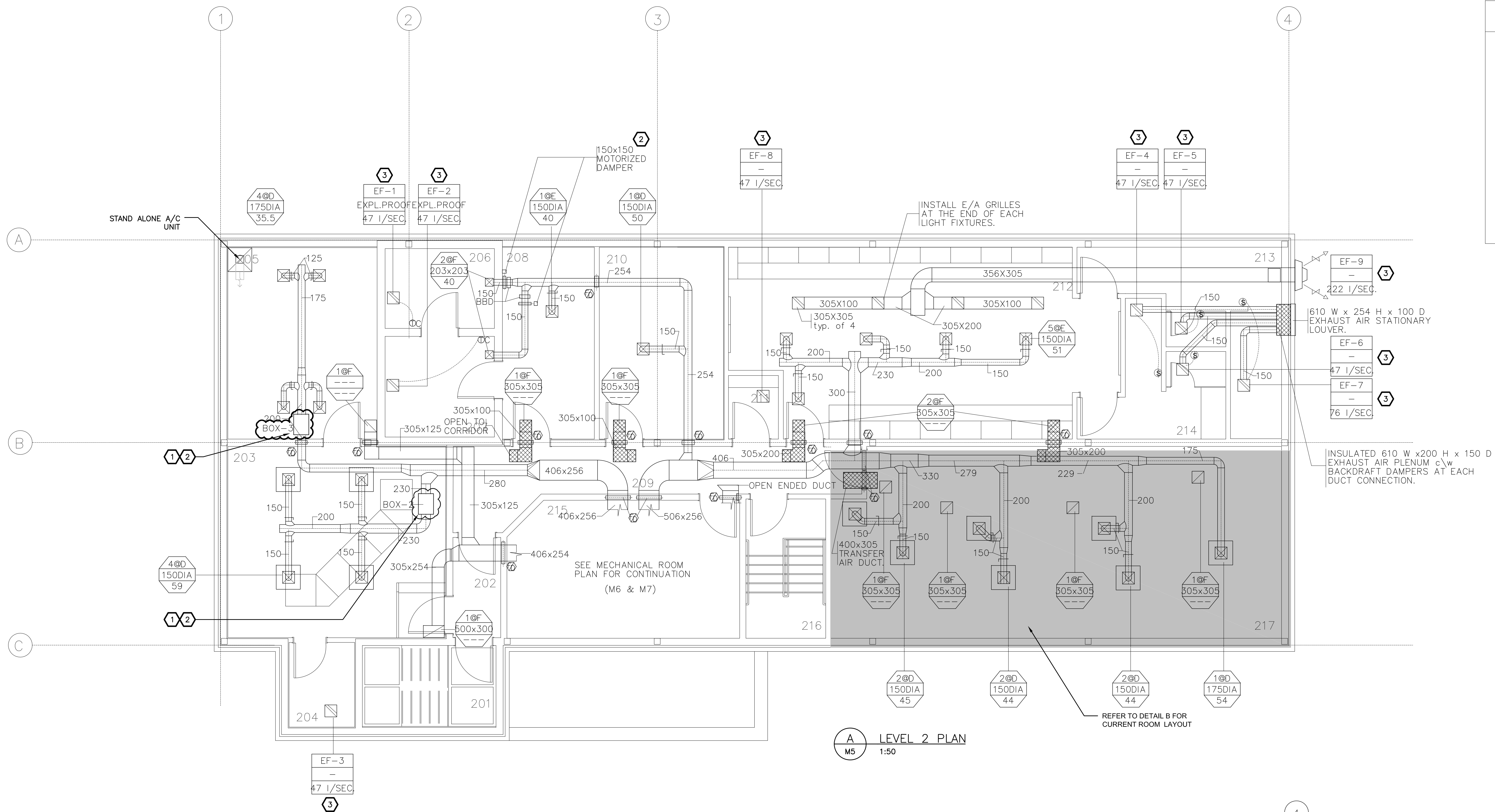
M4 OF 10

A LEVEL 1 PLAN
M4 1:50

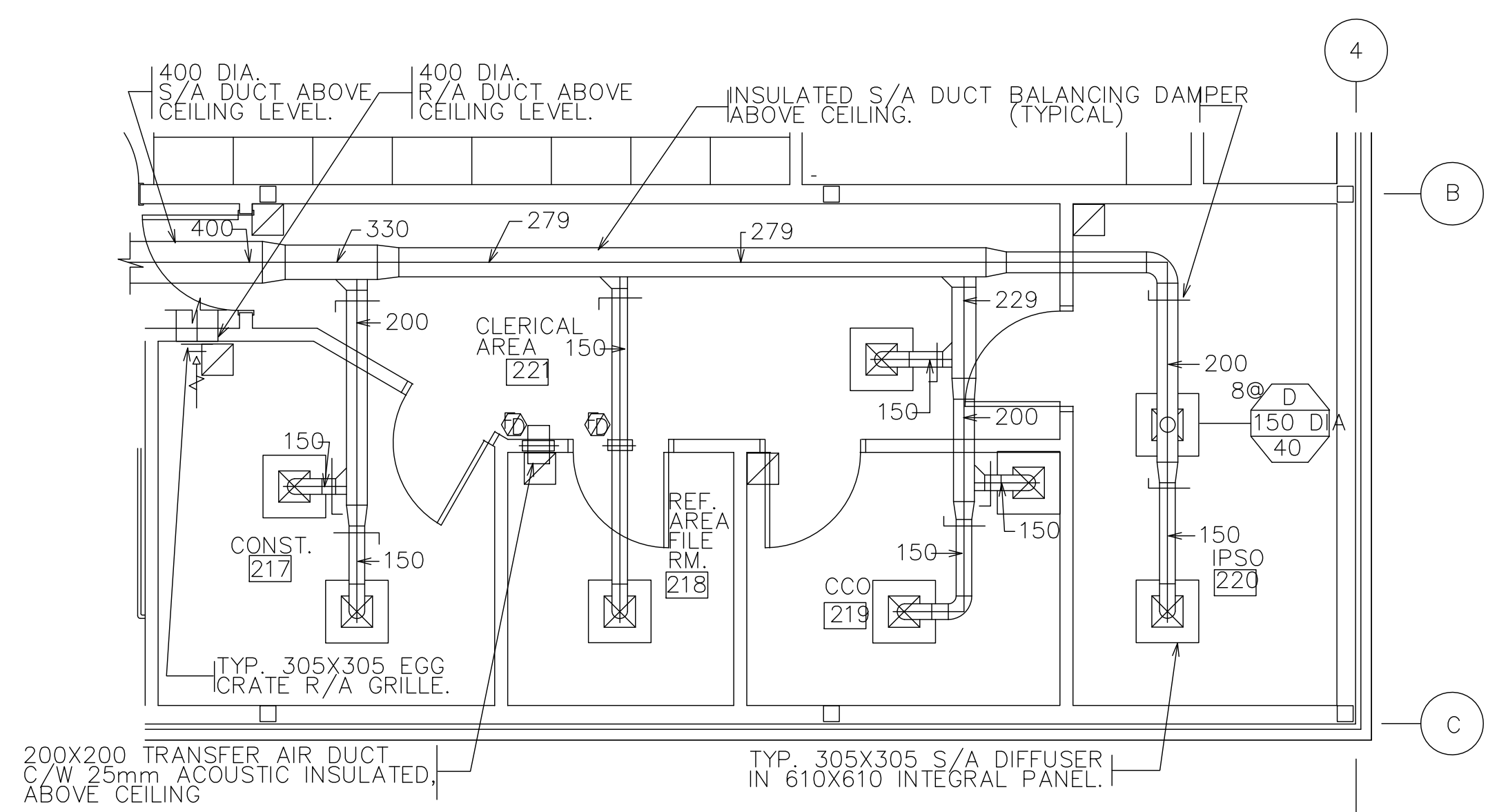
- KEYNOTES:**
- REMOVE EXISTING PNEUMATIC CONTROL DAMPER ACTUATOR, EXISTING VAV CONTROLLER, AND ASSOCIATED PNEUMATIC TUBING - REPLACE WITH NEW ELECTRONIC CONTROL DAMPER ACTUATOR MOUNTED ON A NEW VAV CONTROLLER AND WIRING - TYPICAL FOR BOX 1, 2 & 3
 - REFER TO CONTROLS FOR SCOPE OF WORK, CONTROLS SEQUENCES, AND POINTS LIST FOR REMEDIAL REQUIREMENTS
 - REMOVE EXISTING PNEUMATIC CONTROL VALVE AND PNEUMATIC TUBING. REPLACE WITH NEW ELECTRONIC CONTROL VALVE.



B EXISTING AIR CIRCULATION SYSTEM 5
M4 NTS



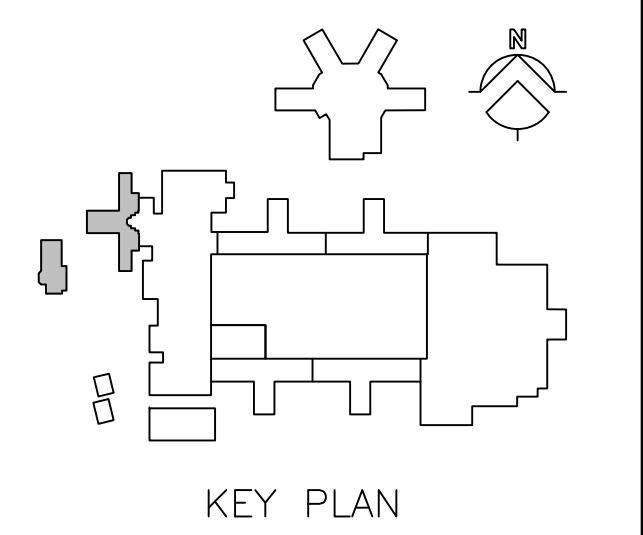
LEVEL 2 PLAN
1:50



L2 SOUTH WEST CORNER CURRENT ROOM LAYOUT
NTS

- KEYNOTES:**
- 1 REMOVE EXISTING PNEUMATIC CONTROL DAMPER ACTUATOR, EXISTING VAV CONTROLLER, AND ASSOCIATED PNEUMATIC TUBING - REPLACE WITH NEW ELECTRONIC CONTROL DAMPER ACTUATOR MOUNTED ON A NEW VAV CONTROLLER AND WIRING - TYPICAL FOR BOX 1, 2 & 3
 - 2 REMOVE EXISTING PNEUMATIC CONTROL DAMPER ACTUATOR AND ASSOCIATED PNEUMATIC TUBING - REPLACE WITH NEW ELECTRONIC CONTROL DAMPER ACTUATOR AND WIRING
 - 3 REFER TO CONTROLS FOR SCOPE OF WORK, CONTROLS SEQUENCES, AND POINTS LIST FOR REMEDIAL REQUIREMENTS

ROOM LEGEND	
201	STAIR
202	VEST.
203	MASTER COMMUNICATION CONTROL POST
204	W.C.
205	CENTRAL EQUIPMENT ROOM
206	AMMUNITION
207	ARMS
208	EQUIPMENT
209	CORRIDOR
210	SECURITY OFFICER
211	JANITOR
212	EMERGENCY RESPONSE TEAM
213	MALE W.C.
214	FEMALE W.C.
215	MECHANICAL
216	STAIR 2
217	UNASSIGNED SPACE



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A	A detail no. no. du detail	A
B	B location drawing no. sur dessin no.	B
C	C drawing no. dessin no.	C

project
EDMONTON, ALBERTA
MAXIMUM SECURITY INSTITUTION DISSOCIATION & SEGREGATION AND GATE HOUSE HEATING CONTROLS

drawing
GATEHOUSE LEVEL 2 VENTILATION PLAN

designed by
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drawn by
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PWGSC project manager
JAMES PATTISON

project number
R.077218.001

drawing number
M5 OF 10

CONTROLS PNUMATIC AIR COMPRESSOR
C/W AIR DRYER MOUNTED ON WALL.
38mm HEATING WATER RETURN LINE
38mm HEATING WATER SUPPLY LINE
32mm HEATING WATER SUPPLY LINE
32mm HEATING WATER RETURN LINE
25mm HEATING WATER RETURN LINE

DOM. RECIRC PUMP, P-7
20mm DOM.RECIRC. LINE
38mm DOM. HOT WATER LINE
50mm DOM. COLD WATER LINE

20mm DOM. WATER LINE
SERVING ALL AHU'S HUMIDIFIERS

100mm HOUSEKEEPING PAD
DOM.WATER HEATER, DWH-1

100mm FUNNEL FLOOR DRAIN
TYPICAL OF 5
UNIT HEATER, UH-1
DOM.WATER HEATER, DWH-2

FEEDWATER TANK & PUMP, P-6
356X406 R/A DUCT UP

50X256 RELIEF AIR OPENING
455X456 COMB. AIR LOUVRE
406X256 COMB.AIR DUCT C/W
ESKIMO TRAP.

AHU-1
AHU-2
AHU-3
RF-3
406X356 S/A DUCT DOWN
356X406 R/A DUCT DOWN
506X356 S/A DUCT DOWN
406X256 S/A DUCT UP
406X506 R/A DUCT UP
50mm N.GAS LINE
CONT. ROOF PLAN

ELECTRICAL AND CONTROL PANELS

CONDUITS

CONTROLS AIR COMPRESSOR

406X406 E/A DUCT
406X406 M/A DUCT DOWN
406X406 F/A MOTORIZED DAMPER
406X406 R/A MOTORIZED DAMPER

25mm HEATING RETURN LINE
25mm HEATING RETURN LINE
25mm HEATING SUPPLY LINE
25mm HEATING SUPPLY LINE

406X356 R/A DUCT
456X456 R/A DUCT TO
R/A FAN, RF-2.
508X508 E/A MOTORIZED DAMPER
508X508 E/A DUCT
813X813 E/A DUCT UP
THROUGH ROOF TO PENTHOUSE
VENTILATION HOOD.

200mm BREECHING
356X406 R/A DUCT FROM
ROOM No.104

506X256 S/A DUCT FROM
ZONE NO.2 AIR HANDLER, AHU-2
506X256 S/A DUCT FROM
ZONE NO.4 AIR HANDLER,
AHU-4.

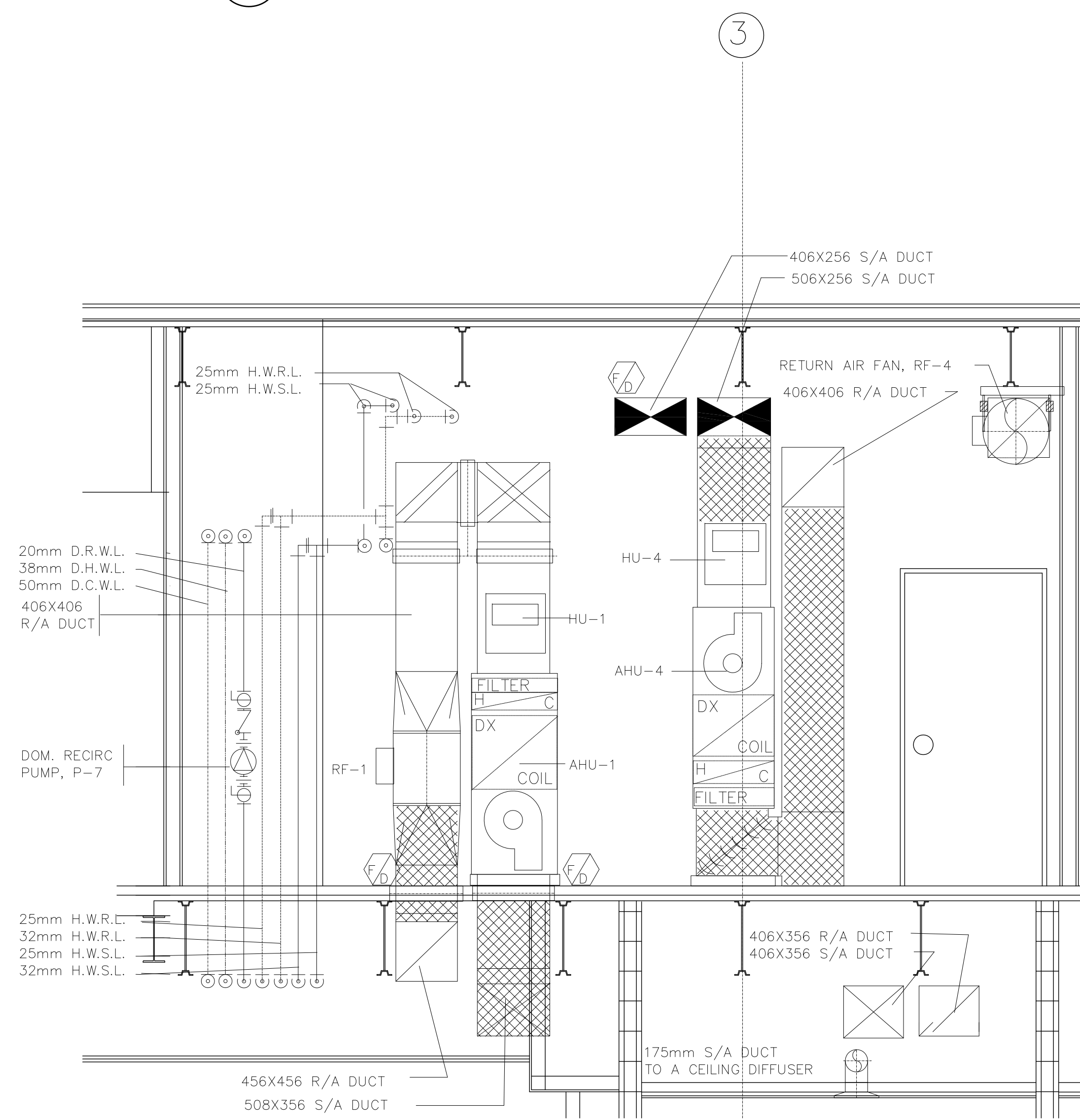
506X356 R/A OPENING
406X356 R/A DUCT TO
R/A FAN, RF-4
406X406 M/A DUCT DOWN
406X406 R/A MOTORIZED DAMPER
406X406 F/A MOTORIZED DAMPER
406X406 E/A MOTORIZED DAMPER
813X813 F/A DUCT UP
THROUGH ROOF TO PENTHOUSE
VENTILATION HOOD.
508X610 E/A DUCT

EACH E/A OUTLET C/W
BACKDRAFT DAMPER

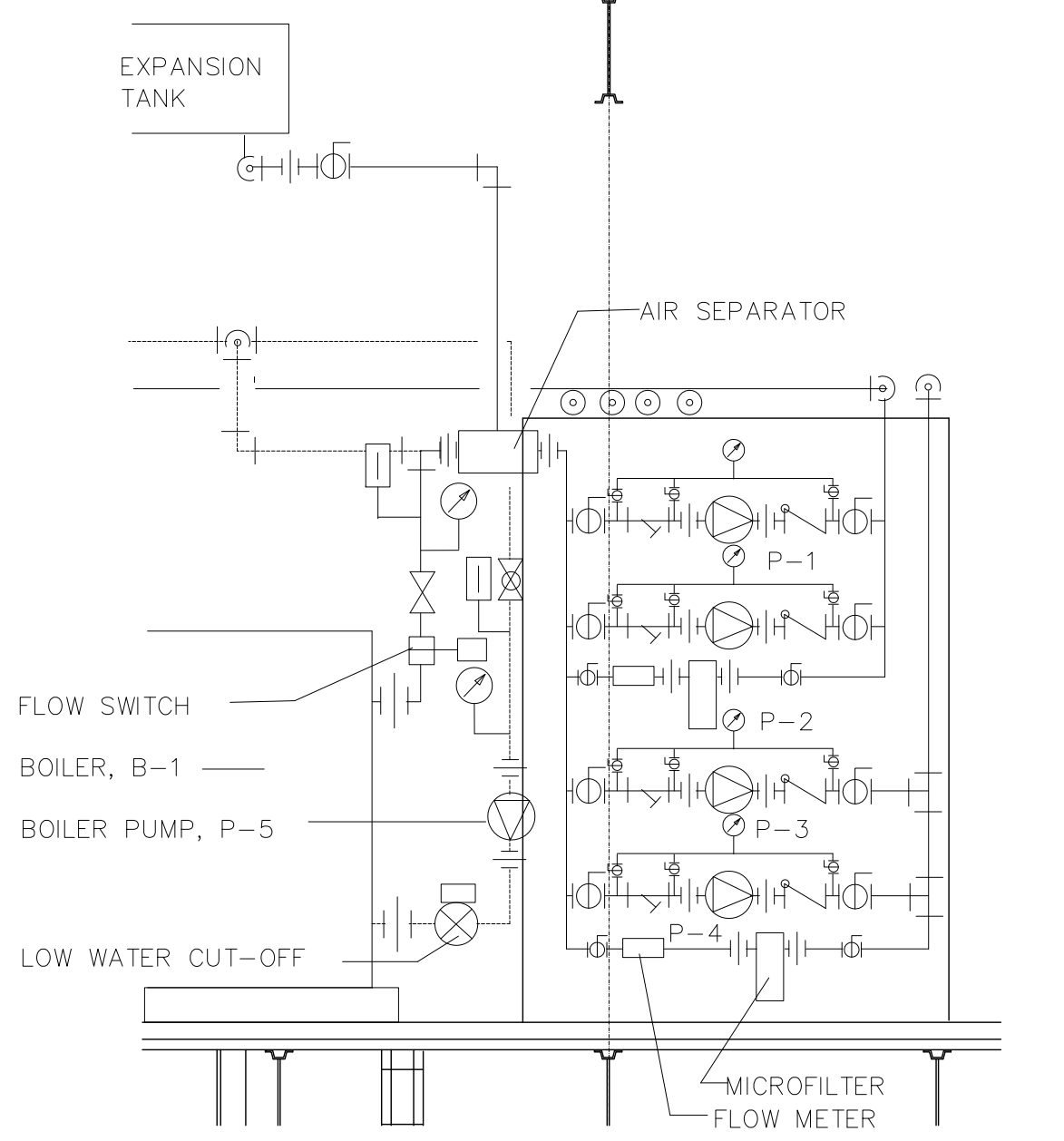
406X406 E/A MOTORIZED DAMPER
406X356 E/A DUCT
356X406 R/A MOTORIZED DAMPER
406X356 F/A DUCT
406X406 F/A MOTORIZED DAMPER

A MECHANICAL ROOM PLAN - LOWER LEVEL
M6 1:50

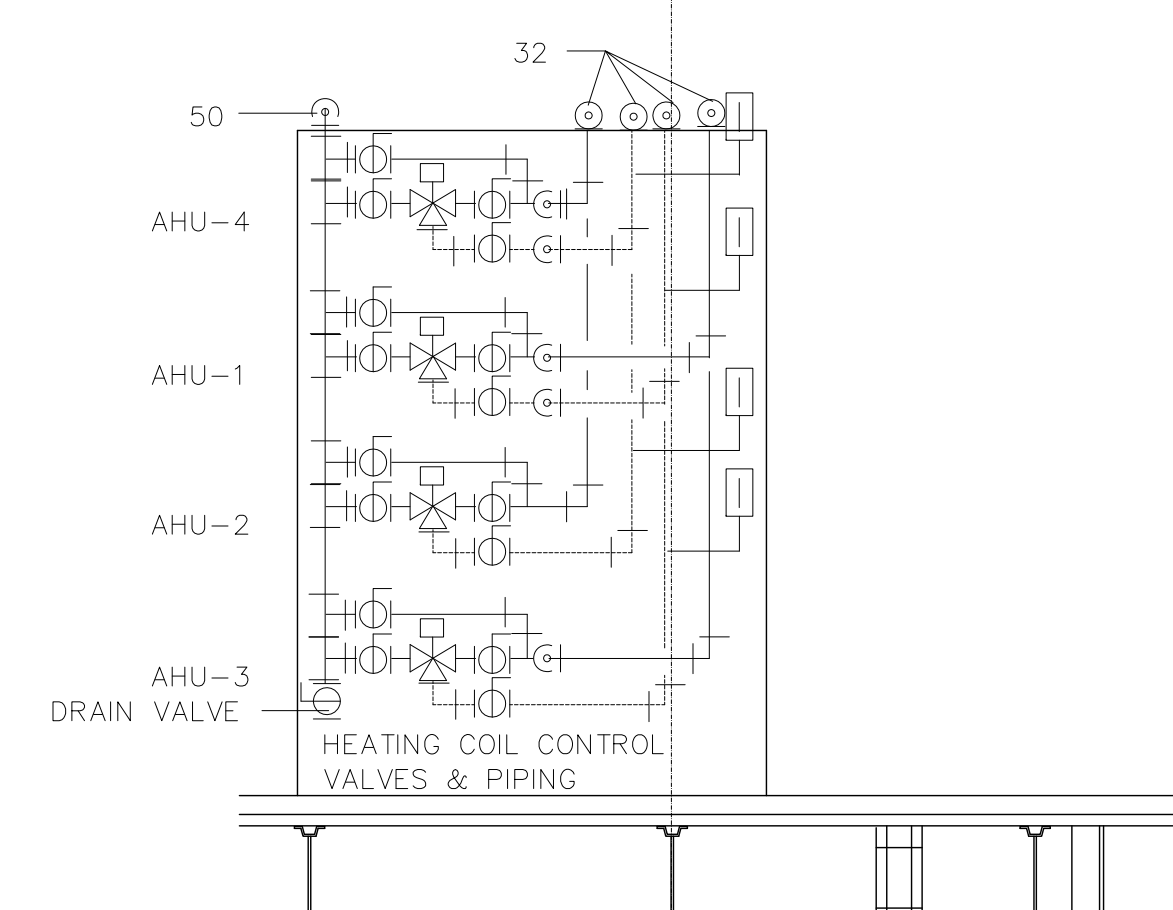
B MECHANICAL ROOM PLAN - UPPER LEVEL
M6 1:50



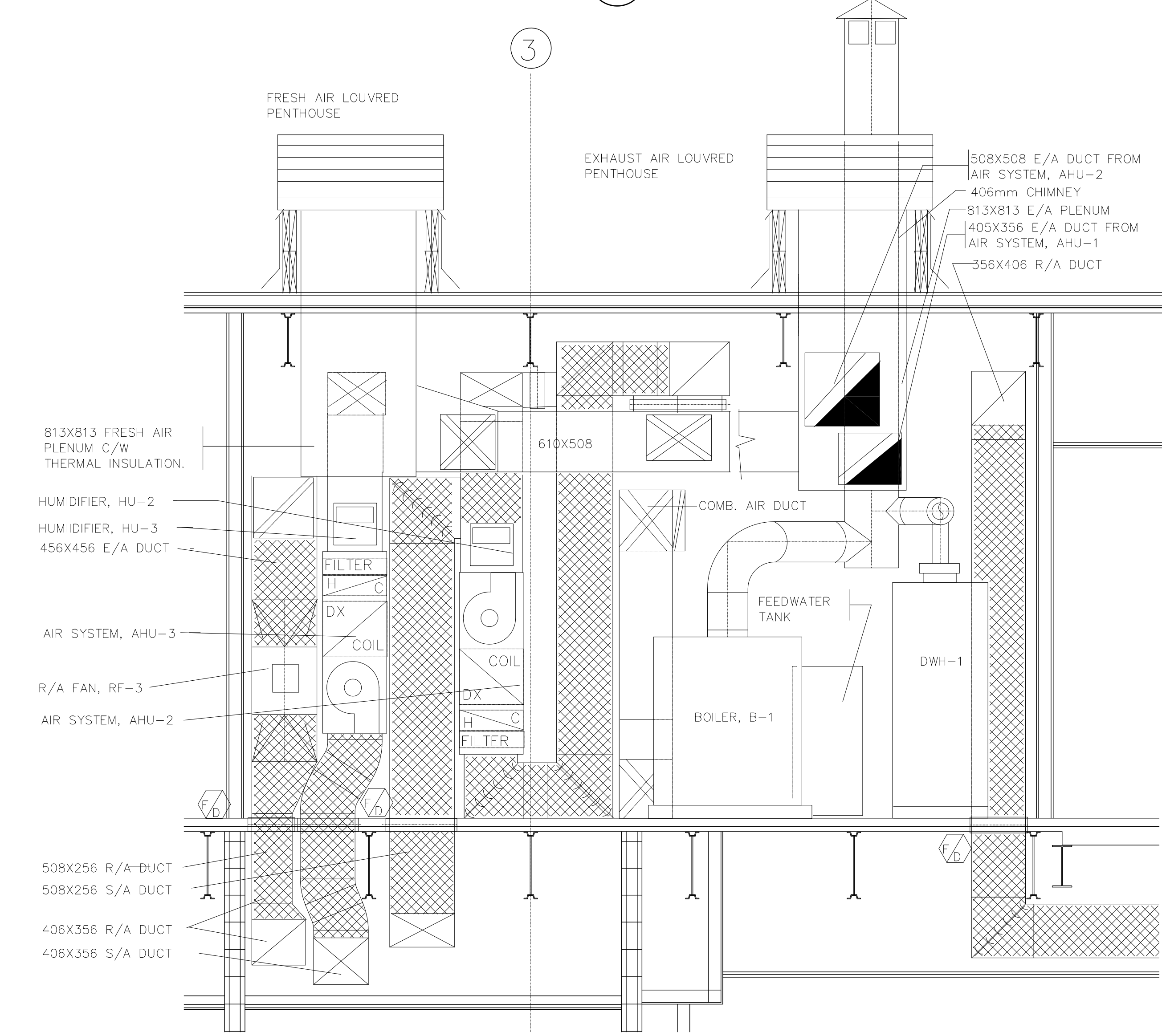
C SECTION
M6 1:50



F SECTION
M6 1:50

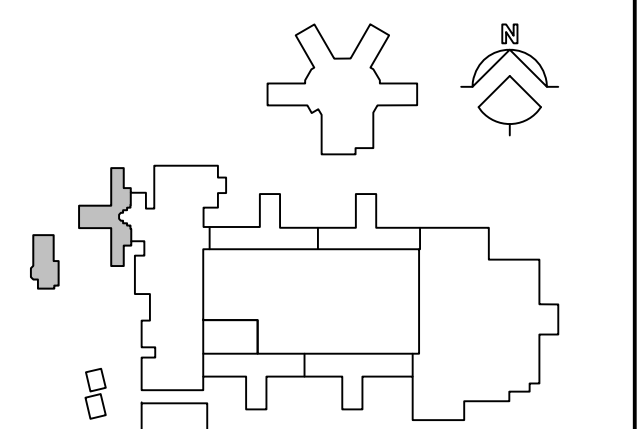


D SECTION
M6 1:50



E SECTION
M6 1:50

FOR INFORMATION ONLY



KEY PLAN



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project
EDMONTON, ALBERTA

**MAXIMUM SECURITY
INSTITUTION
DISSOCIATION & SEGREGATION
AND GATE HOUSE
HEATING CONTROLS**

drawing dessin

**GATEHOUSE
MECHANICAL LEVEL
VENTILATION & HEATING**

designed by
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drawn by
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approved by
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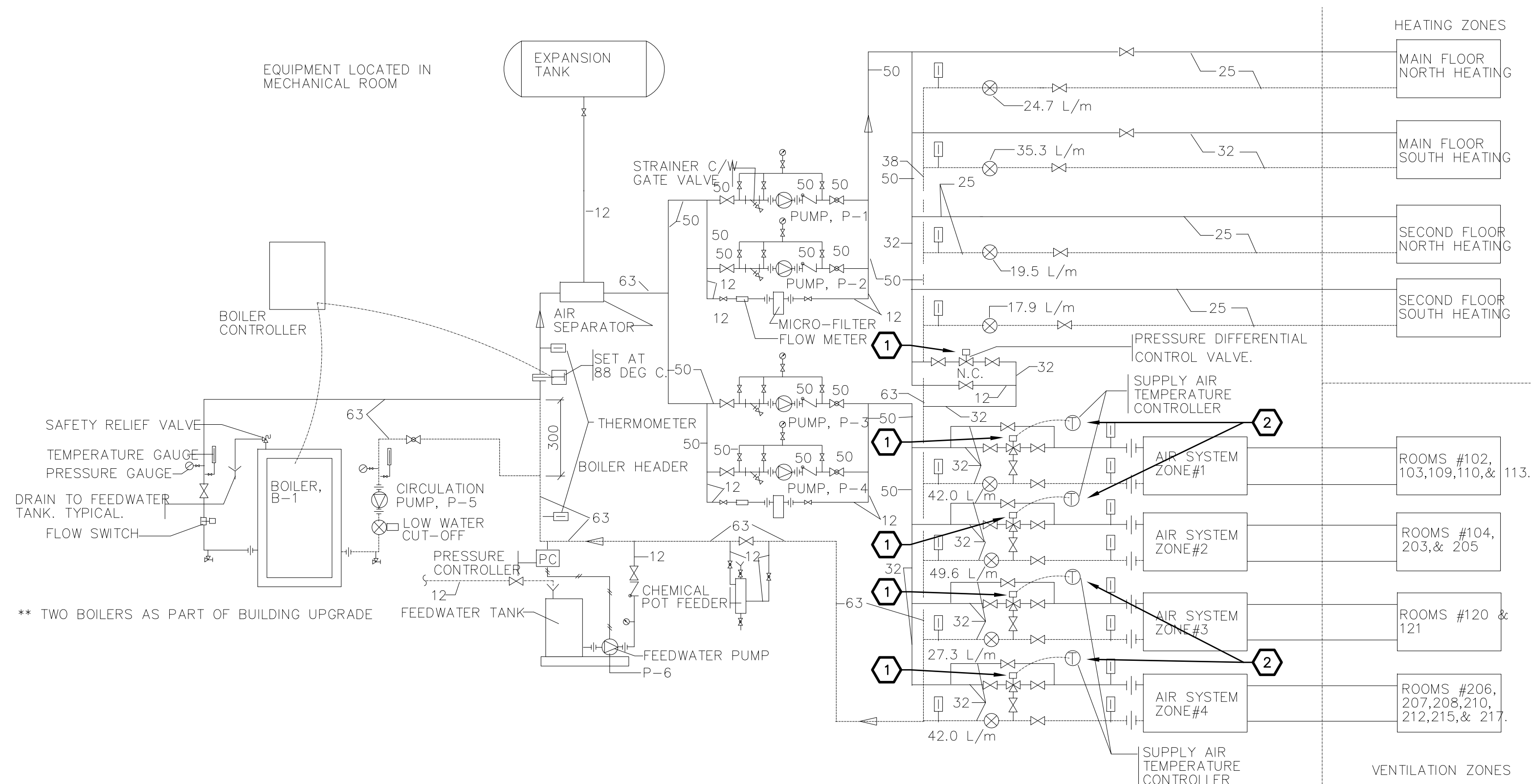
PWGSC project manager
JAMES PATTISON

project number num. du projet

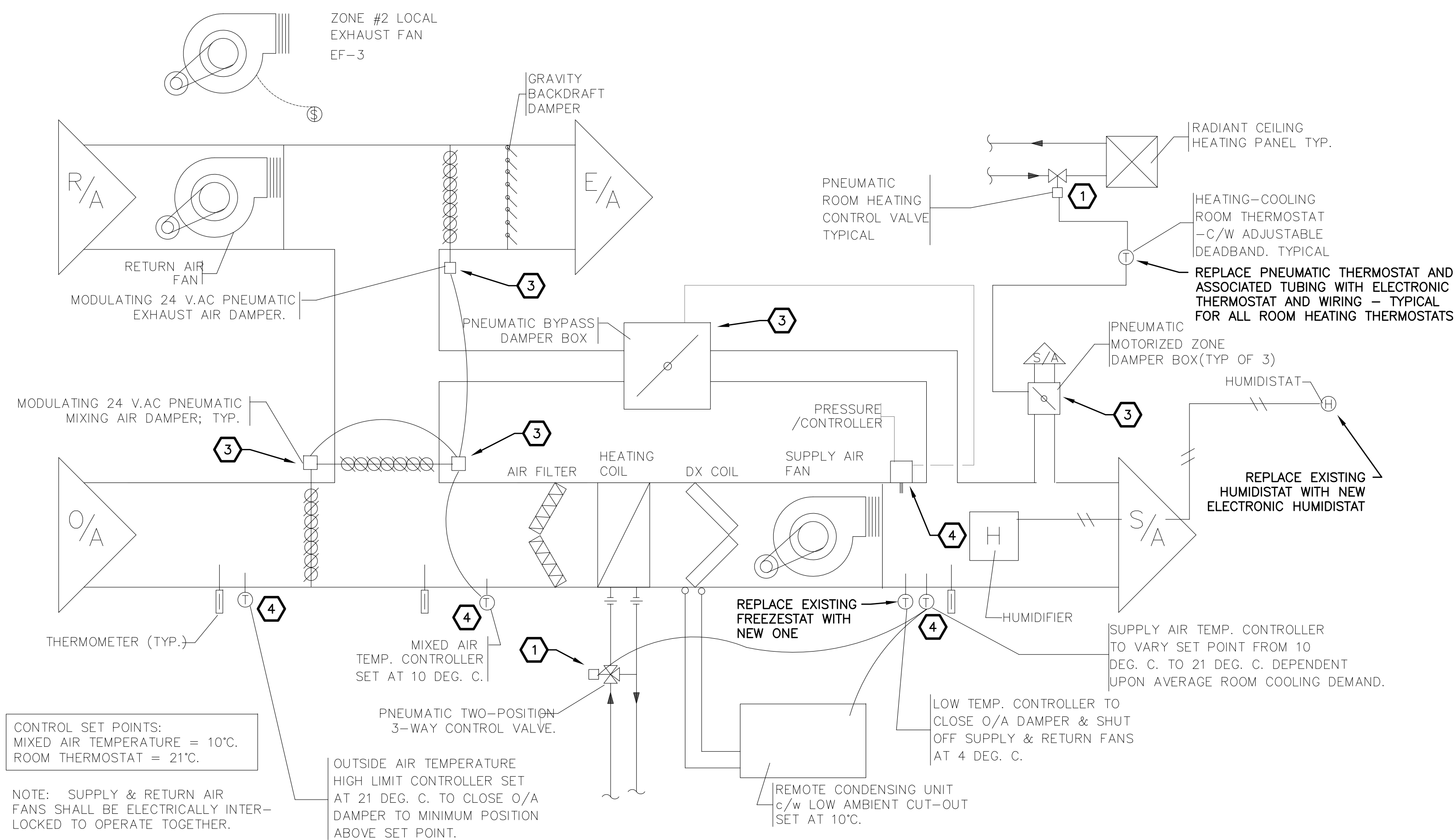
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drawing number num. du dessin

M6 OF 10



A
M7
NTS
HEATING PIPING SCHEMATIC



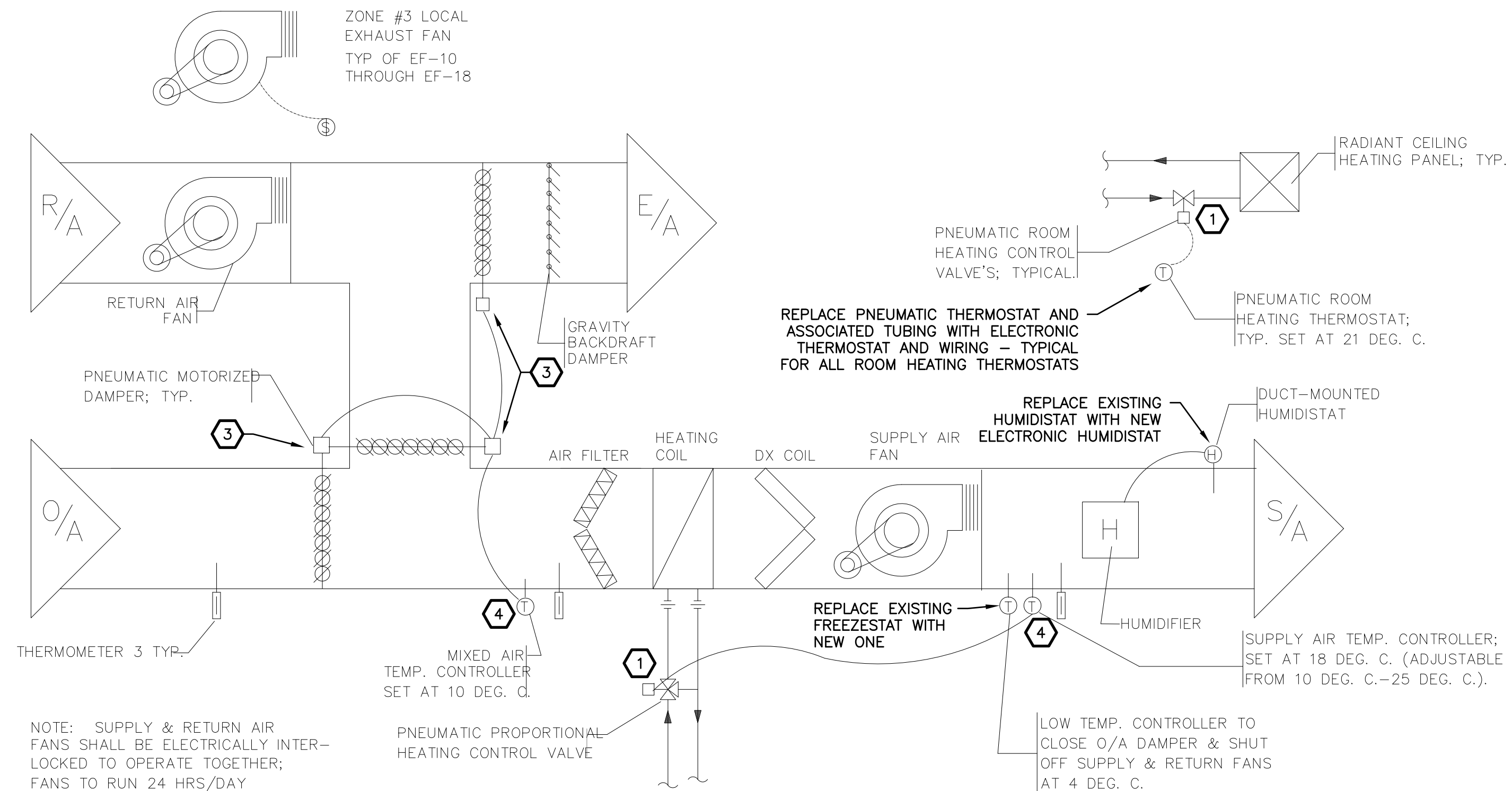
C
M7
NTS
ZONE #2 HVAC SYSTEM CONTROLS

KEYNOTES:

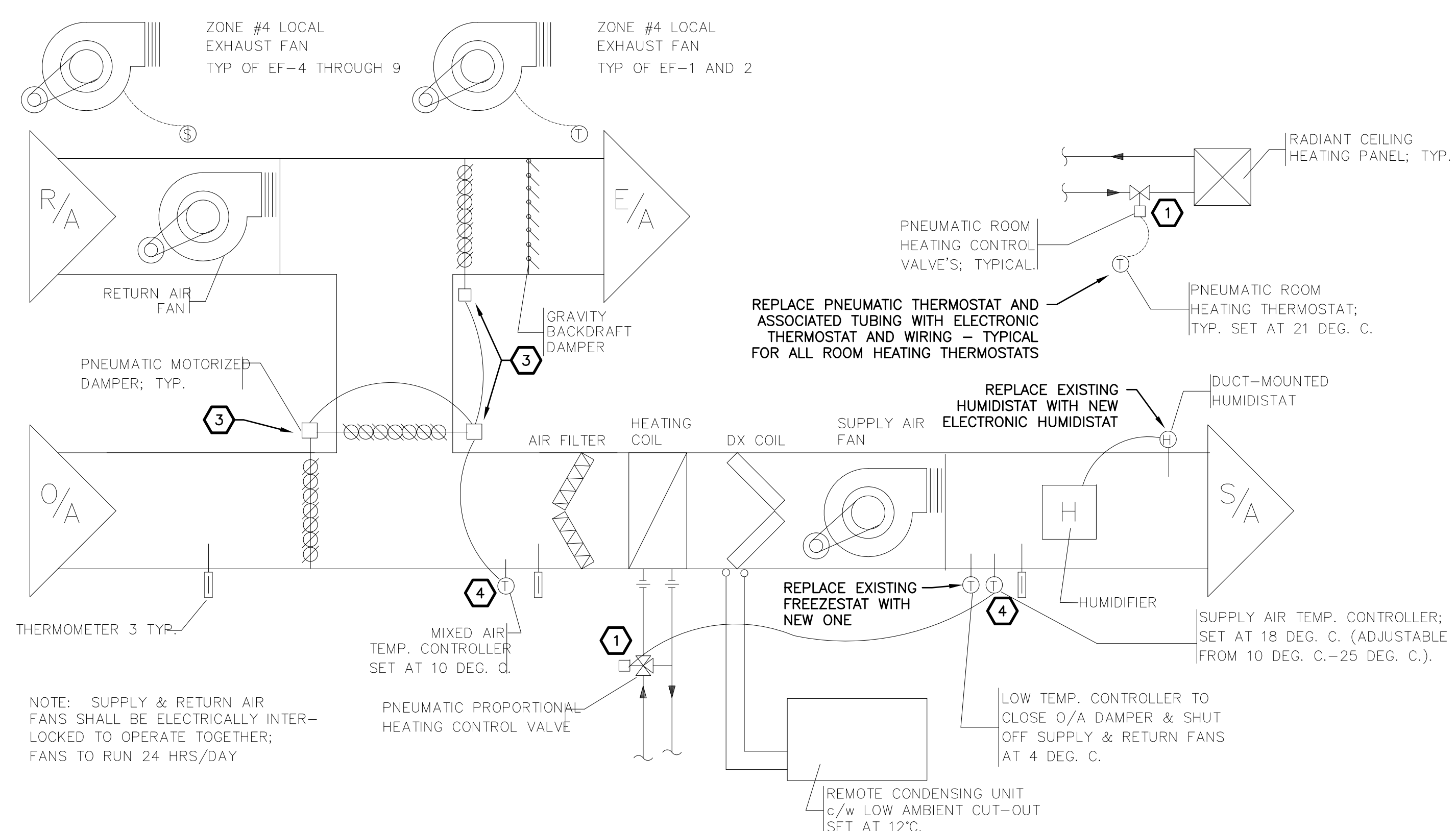
- 1 REMOVE PNEUMATIC CONTROL VALVE AND ASSOCIATED PNEUMATIC TUBING - REPLACE WITH ELECTRONIC CONTROL VALVE AND WIRING
- 2 REMOVE PNEUMATIC TEMPERATURE CONTROLLER AND REPLACE WITH ELECTRONIC TEMPERATURE CONTROLLER
- 3 REPLACE PNEUMATIC DAMPER ACTUATOR WITH ELECTRONIC ACTUATOR
- 4 REPLACE PNEUMATIC CONTROLLER WITH ELECTRONIC CONTROLLER

GENERAL NOTES:

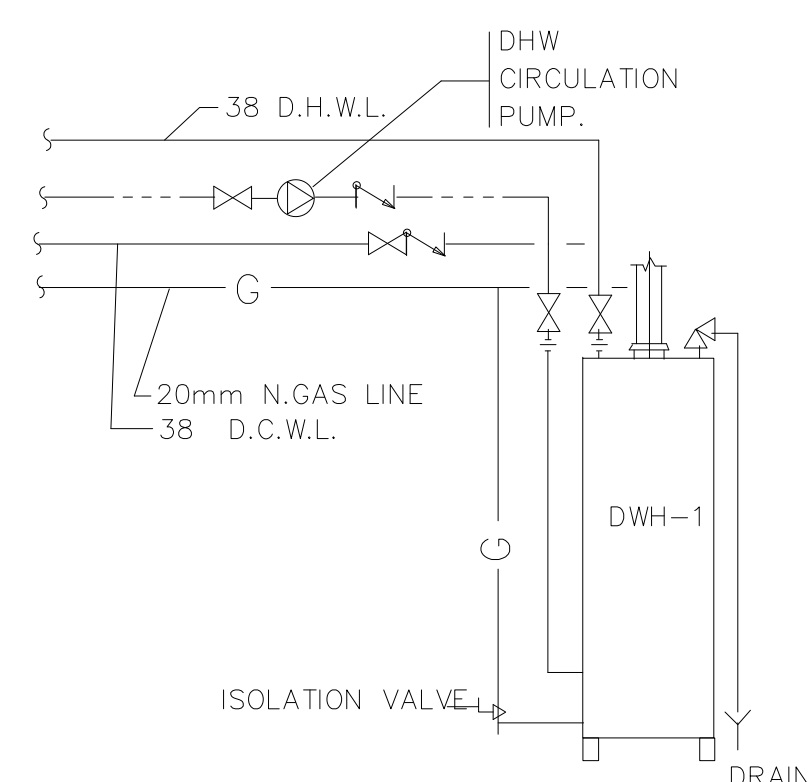
- 1 EXISTING CONTROL SYSTEM FUNCTION SHALL BE MATCHED BY NEW ELECTRONIC SYSTEM.
- 2 CONTROL SEQUENCES ARE IDENTIFIED IN SPEC SECTION 25 90 01.01
- 3 ALL REQUIRED CONTROL POINTS ARE IDENTIFIED IN SPEC SECTION 25 90 01.02



B
M7
NTS
ZONE #1 & 3 HVAC SYSTEM CONTROLS



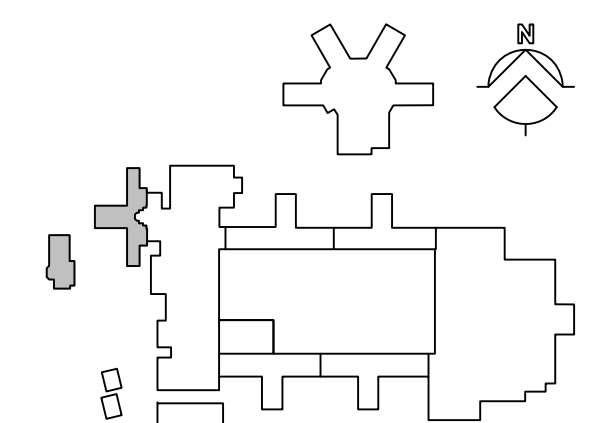
D
M7
NTS
ZONE #4 HVAC SYSTEM CONTROLS



E
M7
NTS
DHW SCHEMATIC



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DISSOCIATION & SEGREGATION
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HEATING CONTROLS**

drawing
GATEHOUSE SCHEMATICS & DETAILS

designed by
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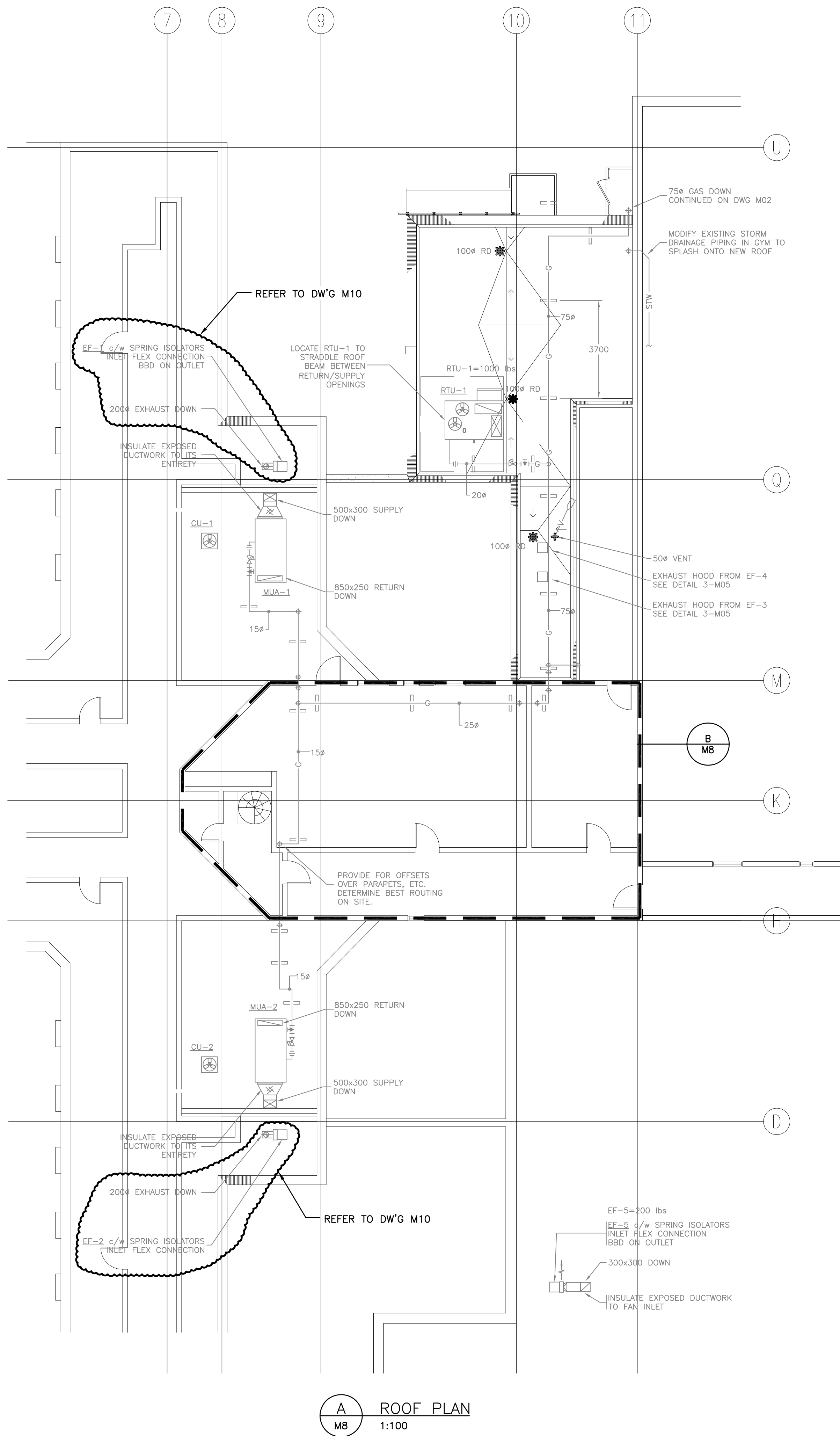
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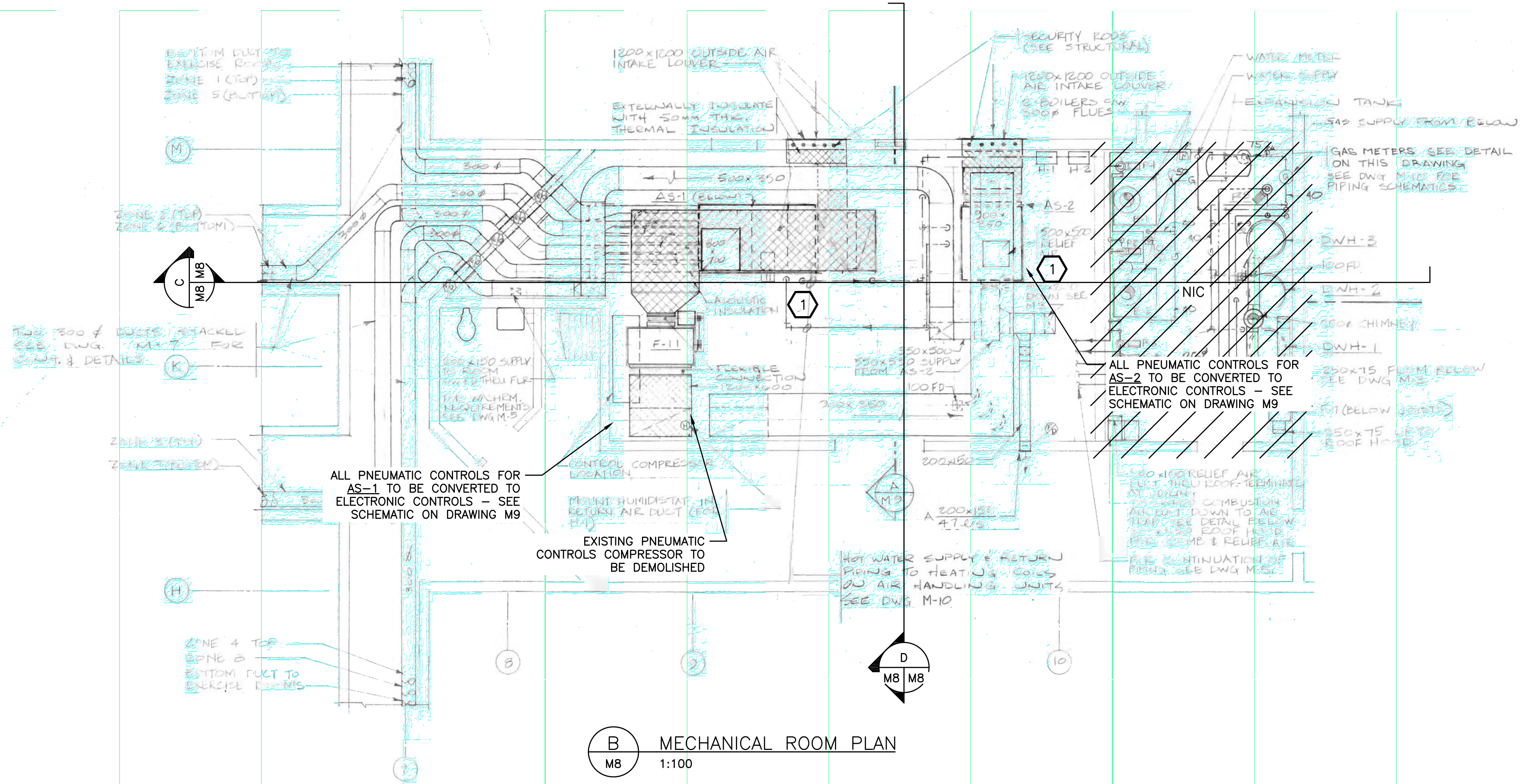
PWGSC project manager
JAMES PATTISON

project number
R.077218.001

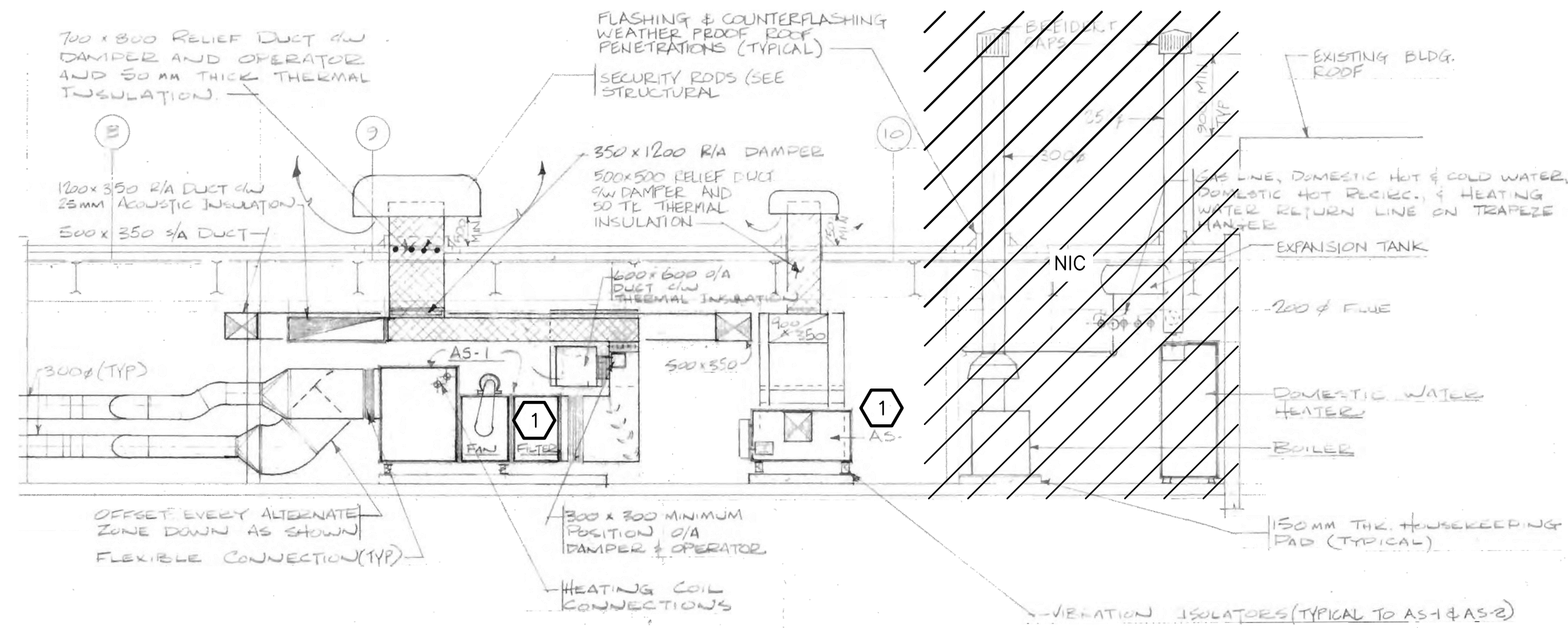
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M7 OF 10



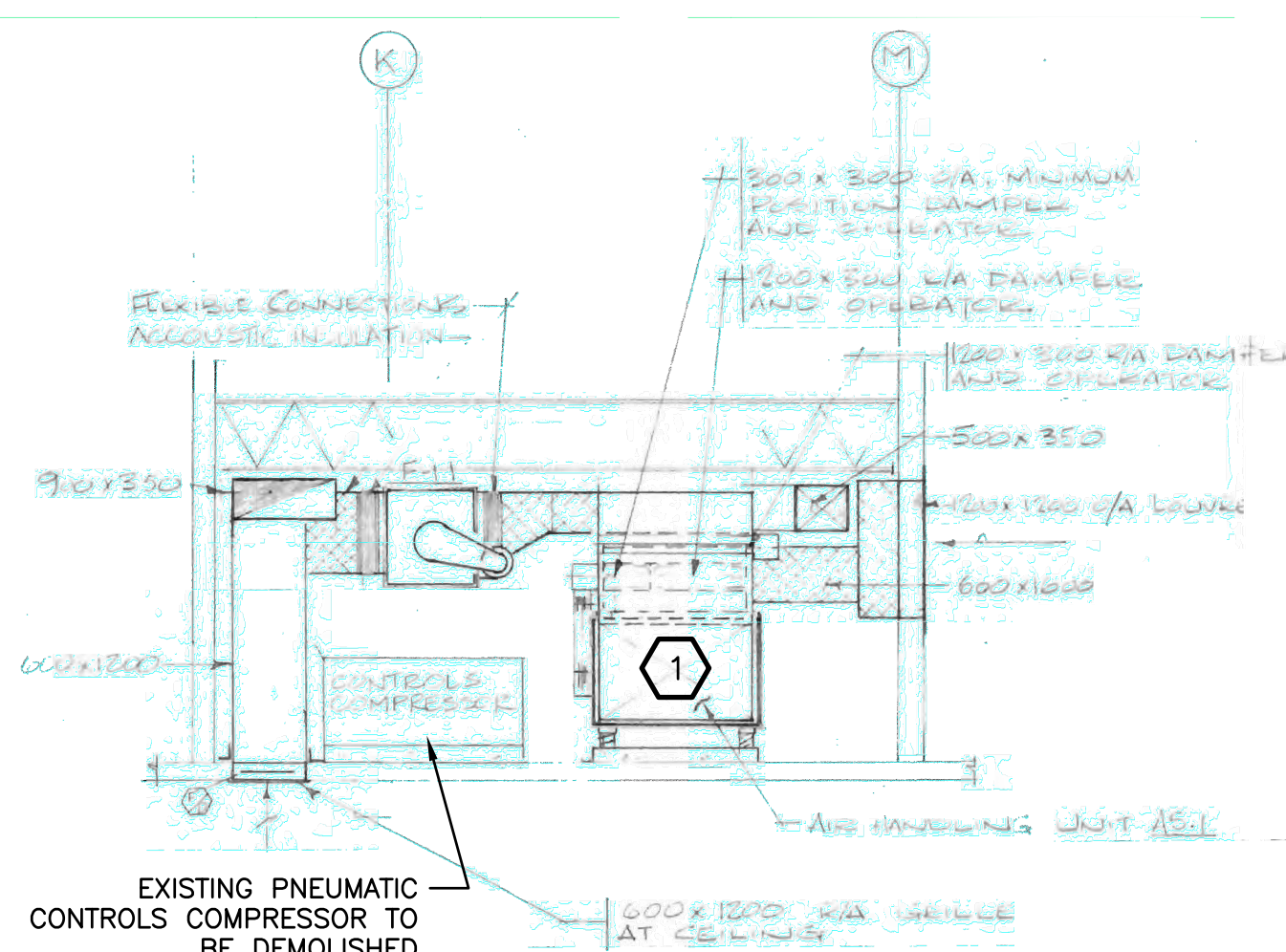
A ROOF PLAN
M8 1:100



B MECHANICAL ROOM PLAN
M8 1:100



C MECHANICAL ROOM SECTION
M8 1:100



D MECHANICAL ROOM SECTION
M8 1:100

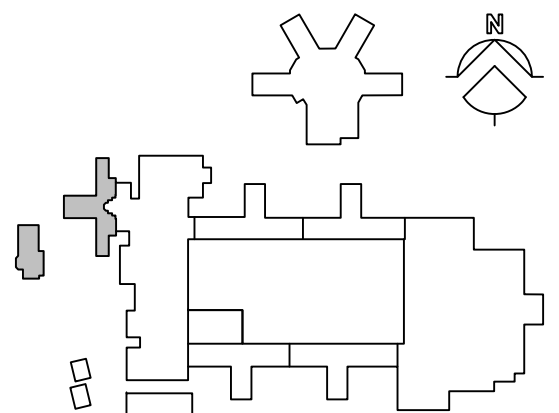
KEYNOTES:

1 REFER TO SCHEMATIC ON DWG M9 FOR INFORMATION FOR PIPING AND CONTROL VALVE REVISIONS.

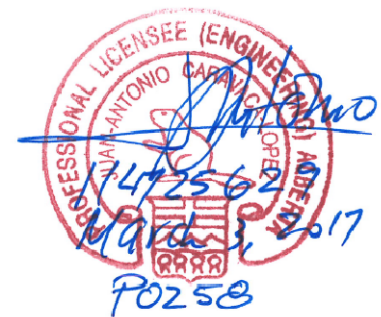
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Stantec project number
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4	ISSUED FOR TENDER	03/03/2017
3	ISSUED FOR PRE-TENDER	06/13/2016
2	99% QA/QC REVIEW	03/18/2016
1	50% REVIEW	02/03/2016
0	50% DESIGN PACKAGE	02/03/2016
revision		date

A	A detail no. no. du détail	A
B	B location drawing no. sur dessin no.	B
C	C drawing no. dessin no.	C

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INSTITUTION
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AND GATE HOUSE
HEATING CONTROLS

drawing DISSOCIATION & SEGREGATION
MECHANICAL ROOM

designed by BN

drawn by BN

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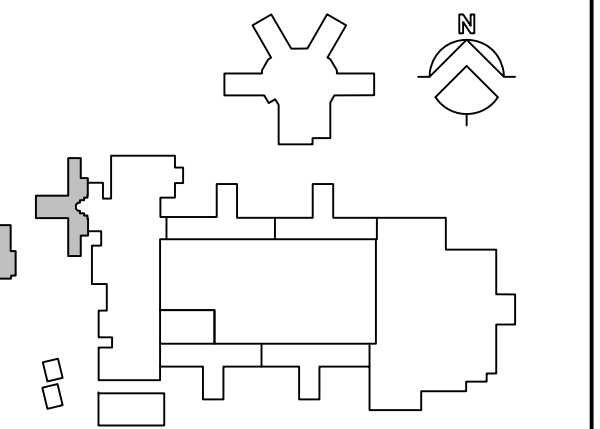
PWGSC project manager
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project number R.077218.001

drawing number M8 OF 10



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3	ISSUED FOR PRE-TENDER 06/13/2016
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1	50% REVIEW 02/03/2016
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revision	date
A	detail no. no. du detail
B	location drawing no. sur dessin no.
C	drawing no. dessin no.

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HEATING CONTROLS

drawing
DISSOCIATION & SEGREGATION
CONTROLS SCHEMATICS

designed by
BN

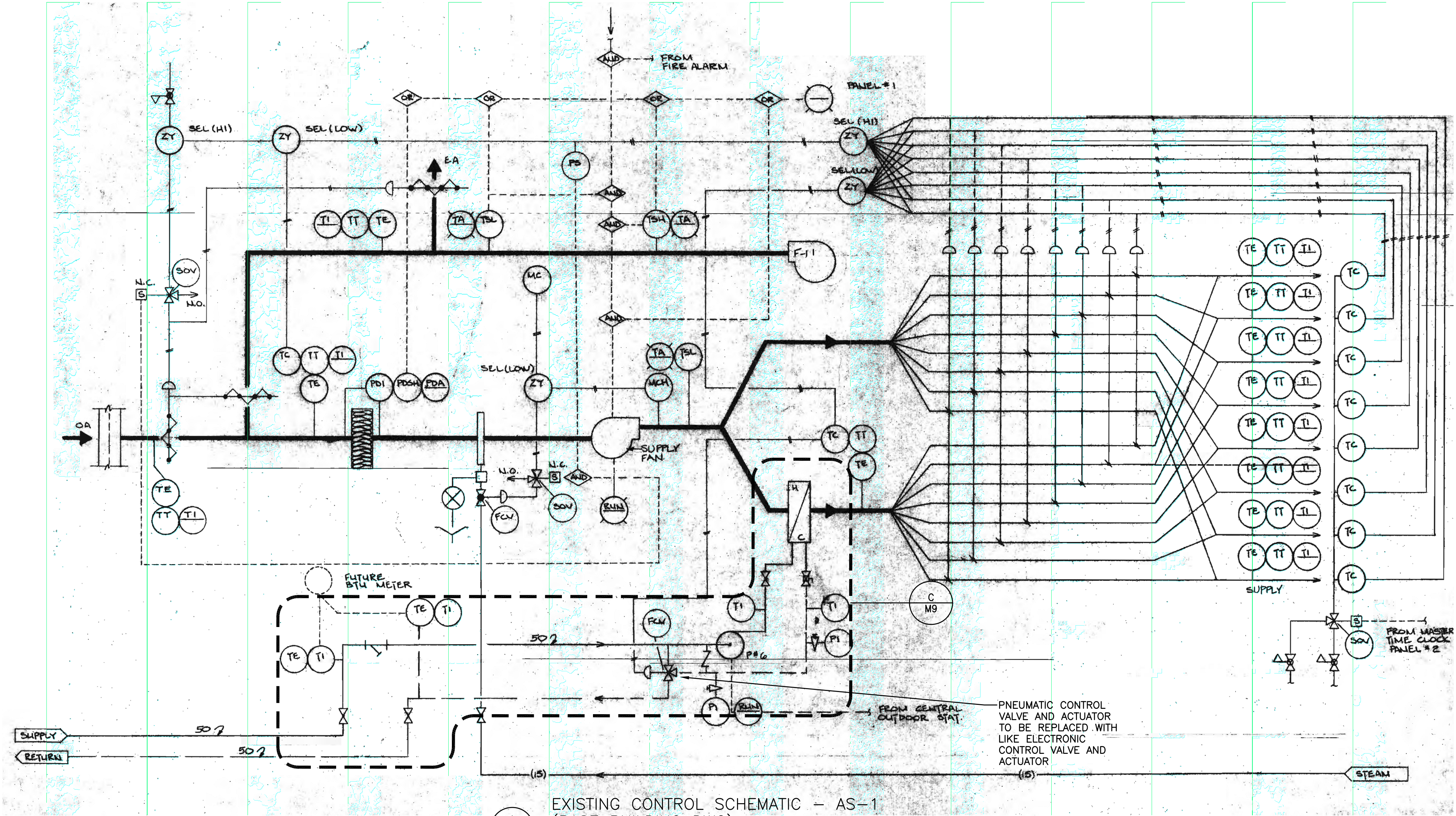
drawn by
BN

approved by
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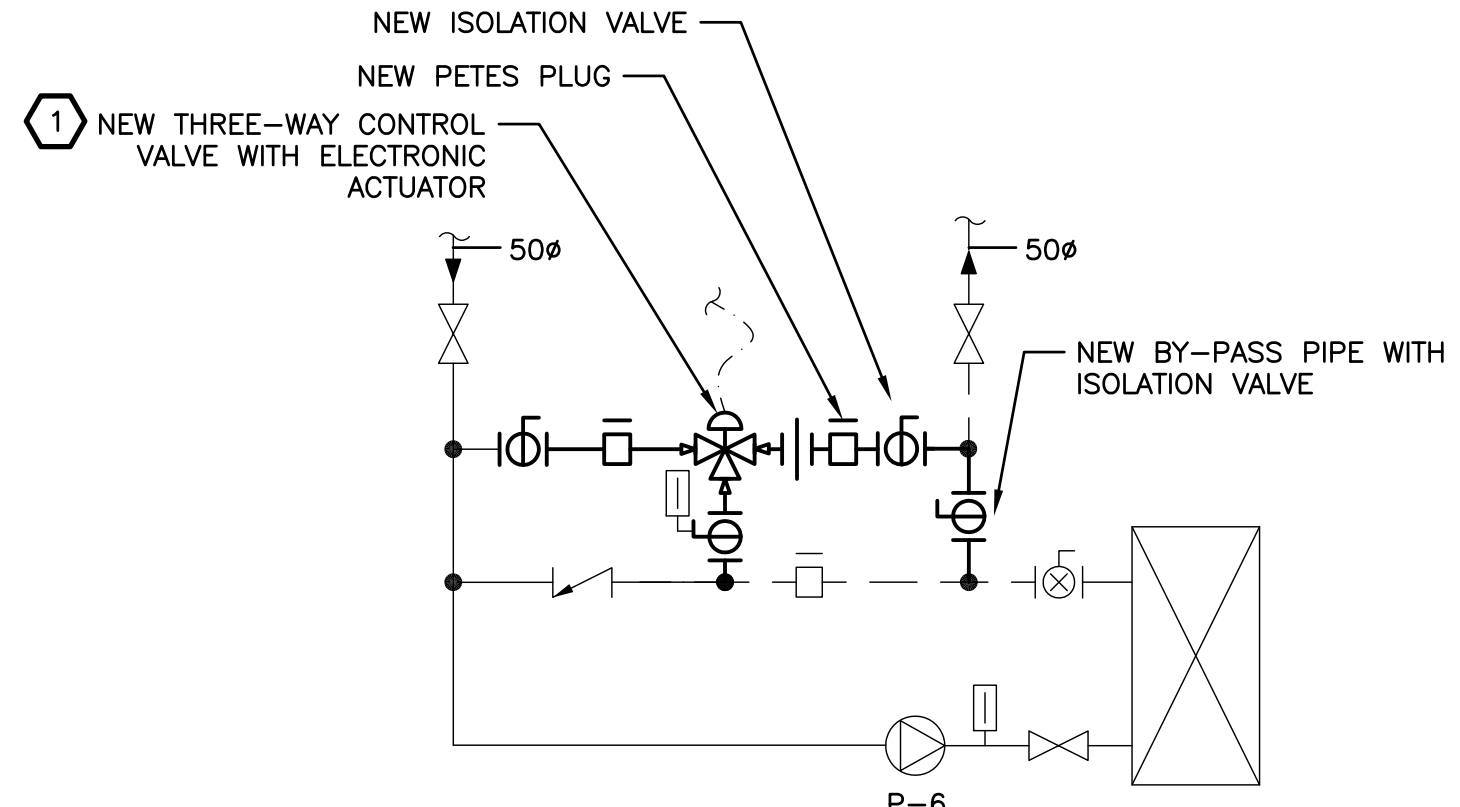
PWGSC project manager
JAMES PATTISON

project number
R.077218.001

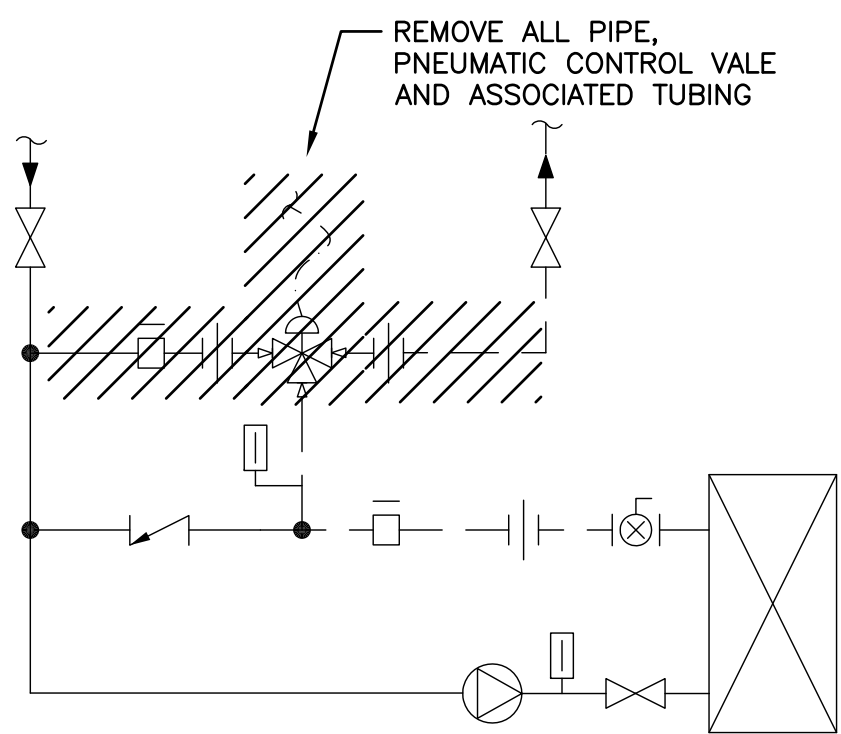
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M9 OF 10



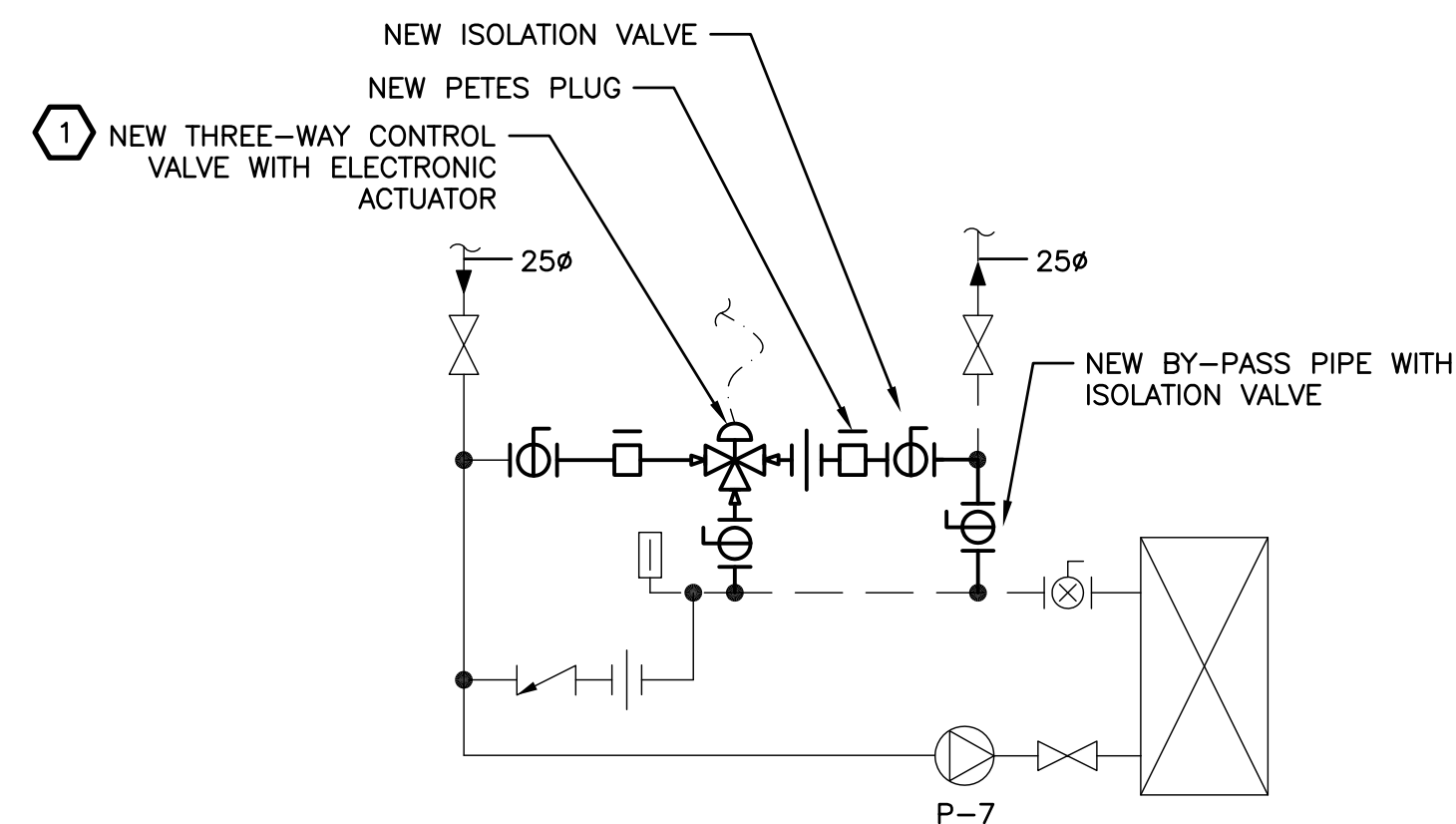
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M9
NTS



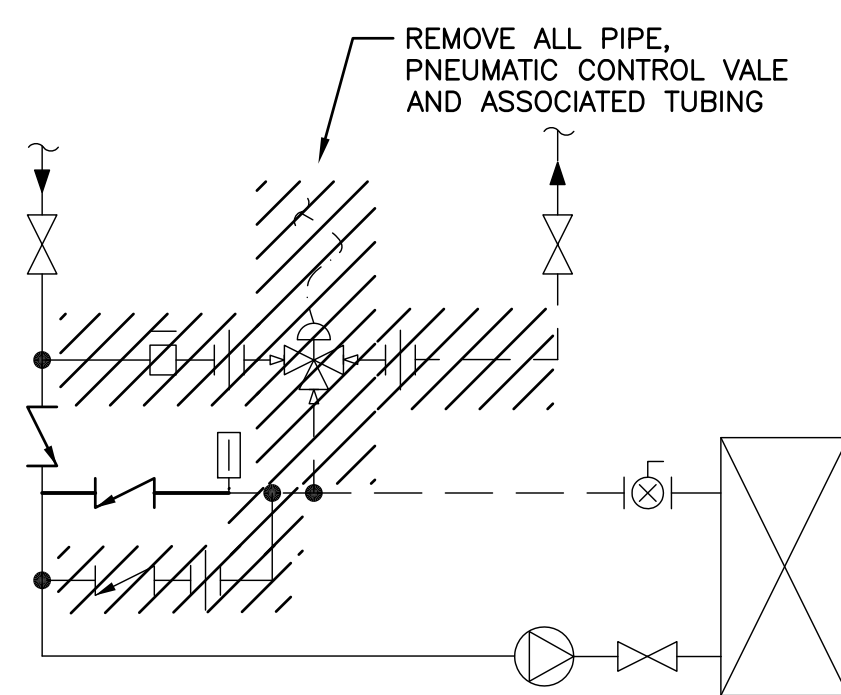
C
M9
NTS



D
M9
NTS



E
M9
NTS



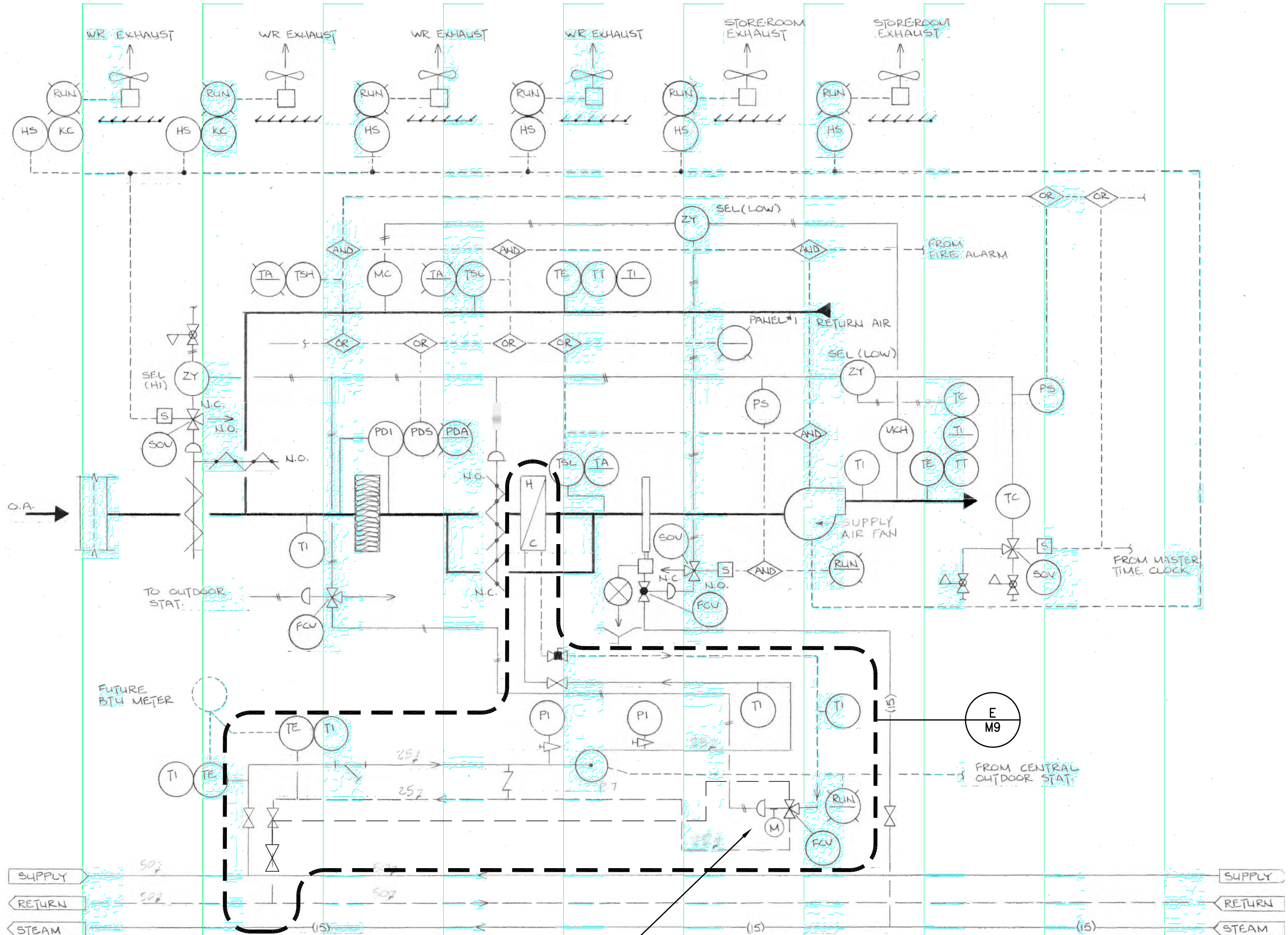
F
M9
NTS

KEYNOTES:

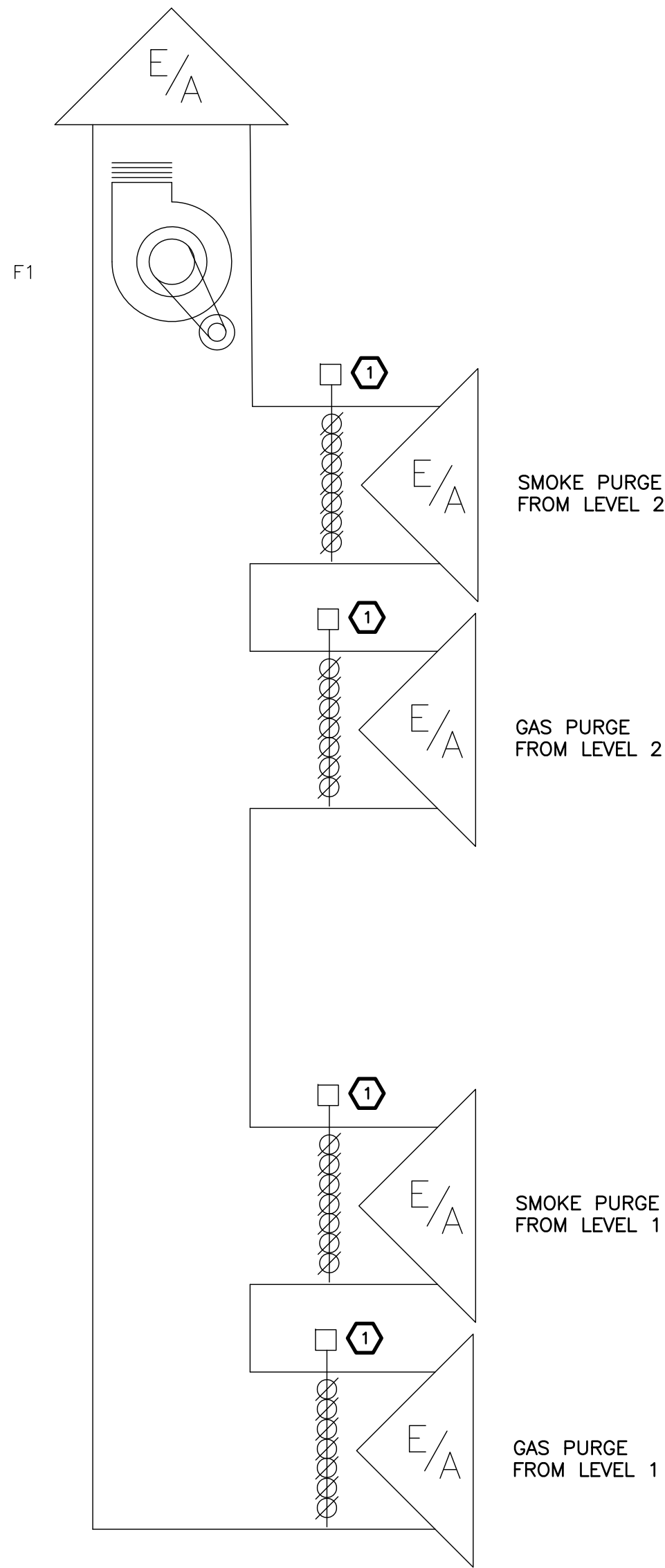
- CONTRACTOR TO ALLOW FOR COMPLETE DISASSEMBLY OF EXISTING PIPING FROM MAIN ISOLATION VALVE TO COIL TO INSTALL NEW CONTROL VALVES AND BYPASS

GENERAL NOTES

- CONTRACTORS TO CONFIRM ALL FIELD DIMENSIONS BEFORE PROCEEDING WITH WORK.



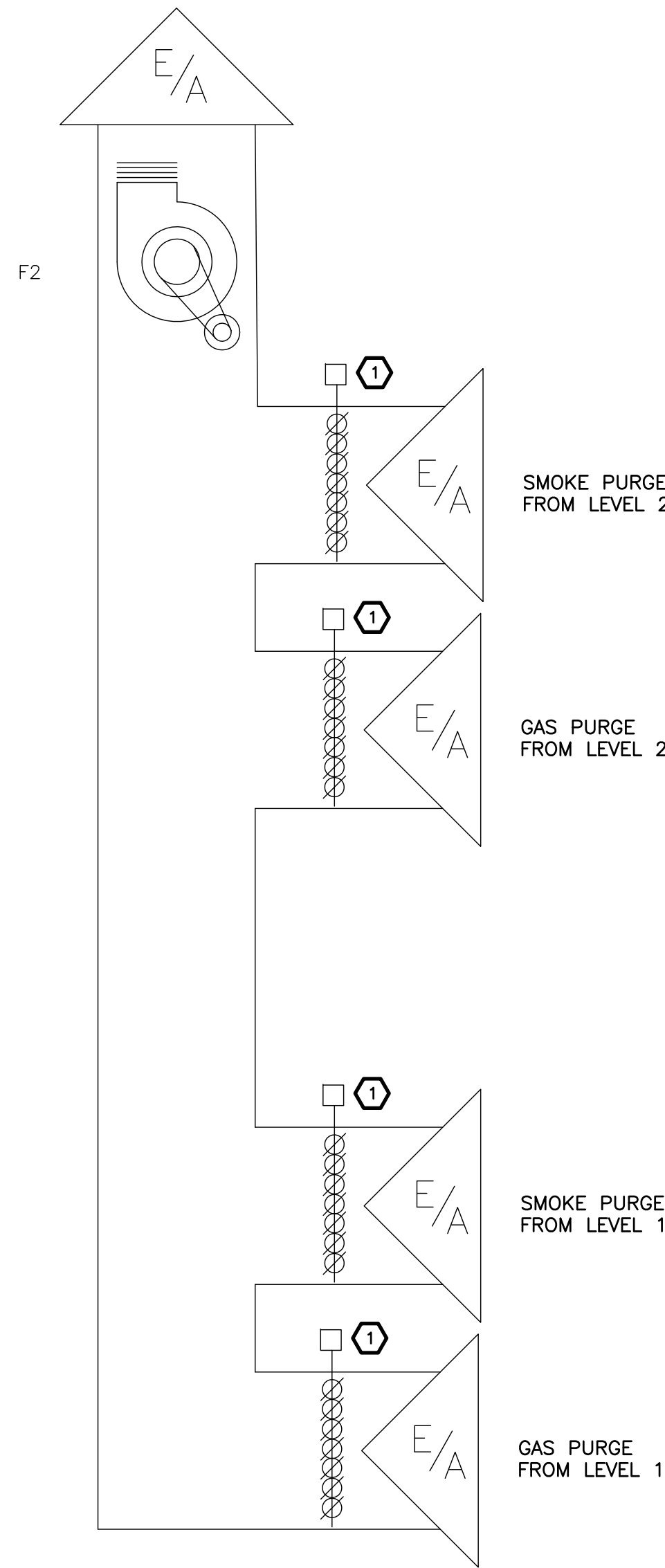
B
M9
NTS



GENERAL NOTES:
1. UPGRADE F1 PNEUMATIC CONTROLS TO DIGITAL CONTROLS. F1 AND ASSOCIATED DAMPERS ARE TO BE CONTROLLED FROM THE EXISTING CONTROL CONSOLE.

KEYNOTES:
① REMOVE EXISTING CONTROL DAMPER ACTUATOR AND ASSOCIATED PNEUMATIC TUBING – REPLACE WITH NEW ELECTRONIC CONTROL DAMPER ACTUATOR AND WIRING

A
M10
EXISTING CONTROL SCHEMATIC – F1
NTS



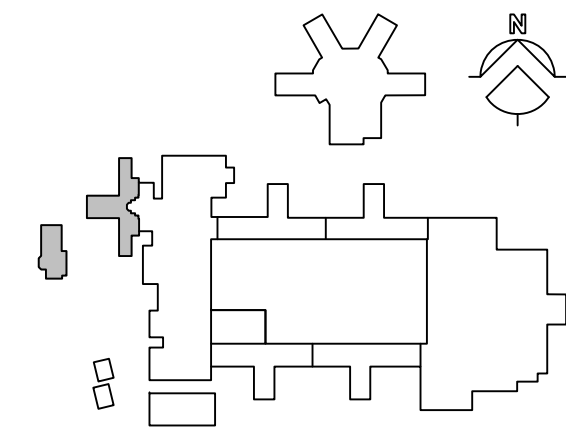
GENERAL NOTES:
1. UPGRADE F2 PNEUMATIC CONTROLS TO DIGITAL CONTROLS. F2 AND ASSOCIATED DAMPERS ARE TO BE CONTROLLED FROM THE EXISTING CONTROL CONSOLE.

KEYNOTES:
① REMOVE EXISTING CONTROL DAMPER ACTUATOR AND ASSOCIATED PNEUMATIC TUBING – REPLACE WITH NEW ELECTRONIC CONTROL DAMPER ACTUATOR AND WIRING

B
M10
EXISTING CONTROL SCHEMATIC – F2
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1	50% REVIEW	02/03/2016
0	50% DESIGN PACKAGE	02/03/2016

A C	A detail no. no. du détail B location drawing no. sur dessin no. C drawing no. dessin no.	A B C
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project
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DISSOCIATION & SEGREGATION
AND GATE HOUSE
HEATING CONTROLS

drawing
dessin
**DISSOCIATION & SEGREGATION
CONTROLS SCHEMATICS
& DETAILS**

designed by
BN
conçu par

drawn by
BN
dessiné par

approved by
TCL
approuvé par

PWGSC project manager
JAMES PATTISON

project number
R.077218.001
num. du projet

drawing number
M10 OF 10
num. du dessin