

PROVINCE OF NEWFOUNDLAND AND LABRADOR

**PEG**  
Newfoundland  
and Labrador  
PERMITTING DEPARTMENT

**PERMIT HOLDER**

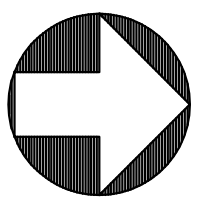
This Permit Allows  
*R. Wolf* JUL 11, 2017

Amec Foster Wheeler Americas Limited

To practice Professional Engineering  
in Newfoundland and Labrador,  
Permit No. as Issued by PEG      D00118  
which is valid for the year 2017.



APPROX. NORTH-



NOTES:

1. 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.
2. PROVIDE ALL MATERIALS & LABOUR REQUIRED TO INSTALL ALL REQUIRED COMPONENTS IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS & DRAWINGS THAT FORM PART OF THIS CONTRACT.

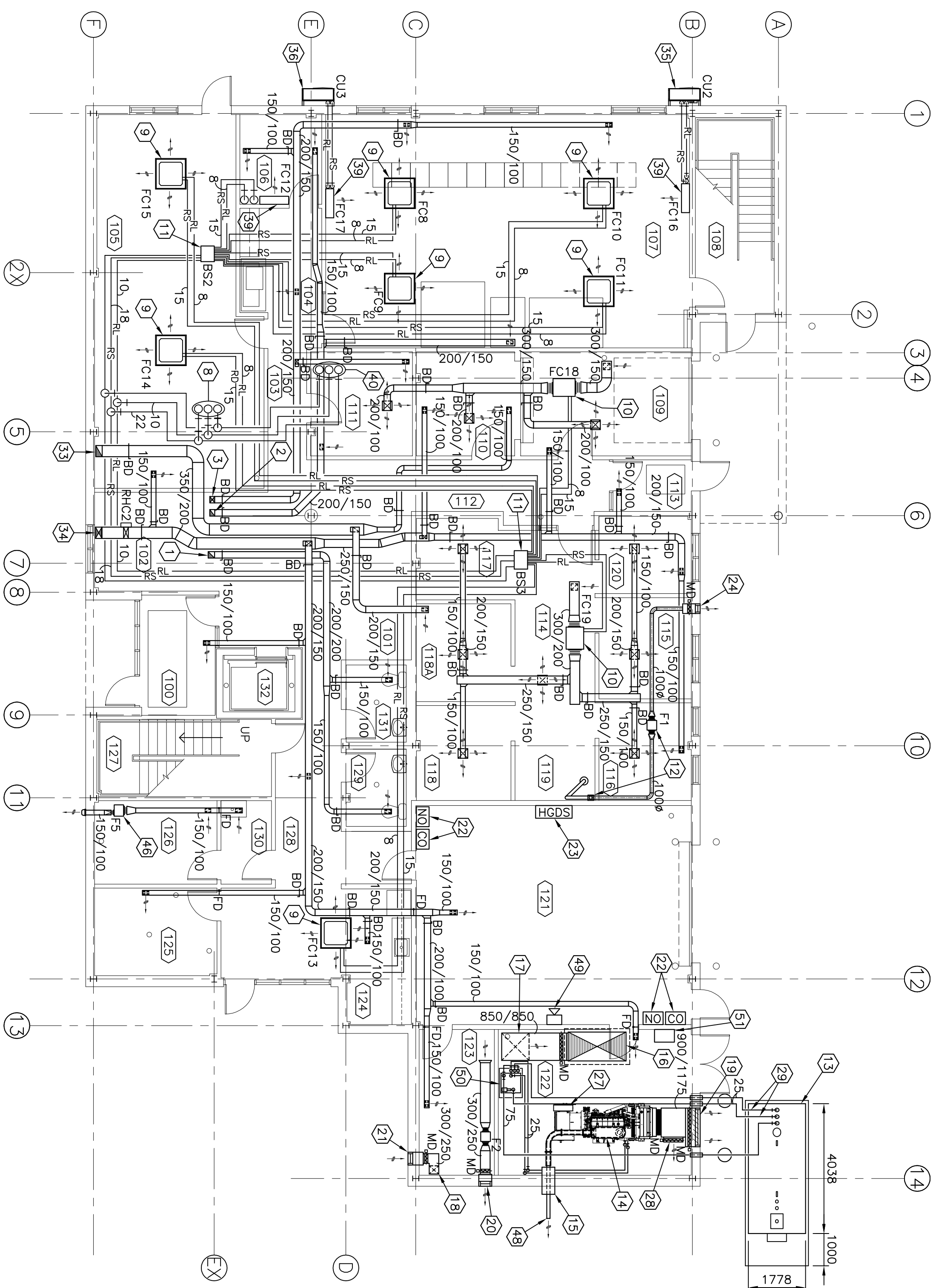
4. ALL DIMENSIONS ARE IN MILLIMETERS  
UNLESS NOTED OTHERWISE.

5. INSTALLATION OF VRF HEATING/COOLING SYSTEM SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THIS MAY REQUIRE THE USE OF PROPRIETARY FITTINGS AND COMPONENTS. PIPING SIZE, SLOPE, ROUTING, AND CONFIGURATION OF REFRIGERANT PIPING SYSTEM SHALL BE AS REQUIRED TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.

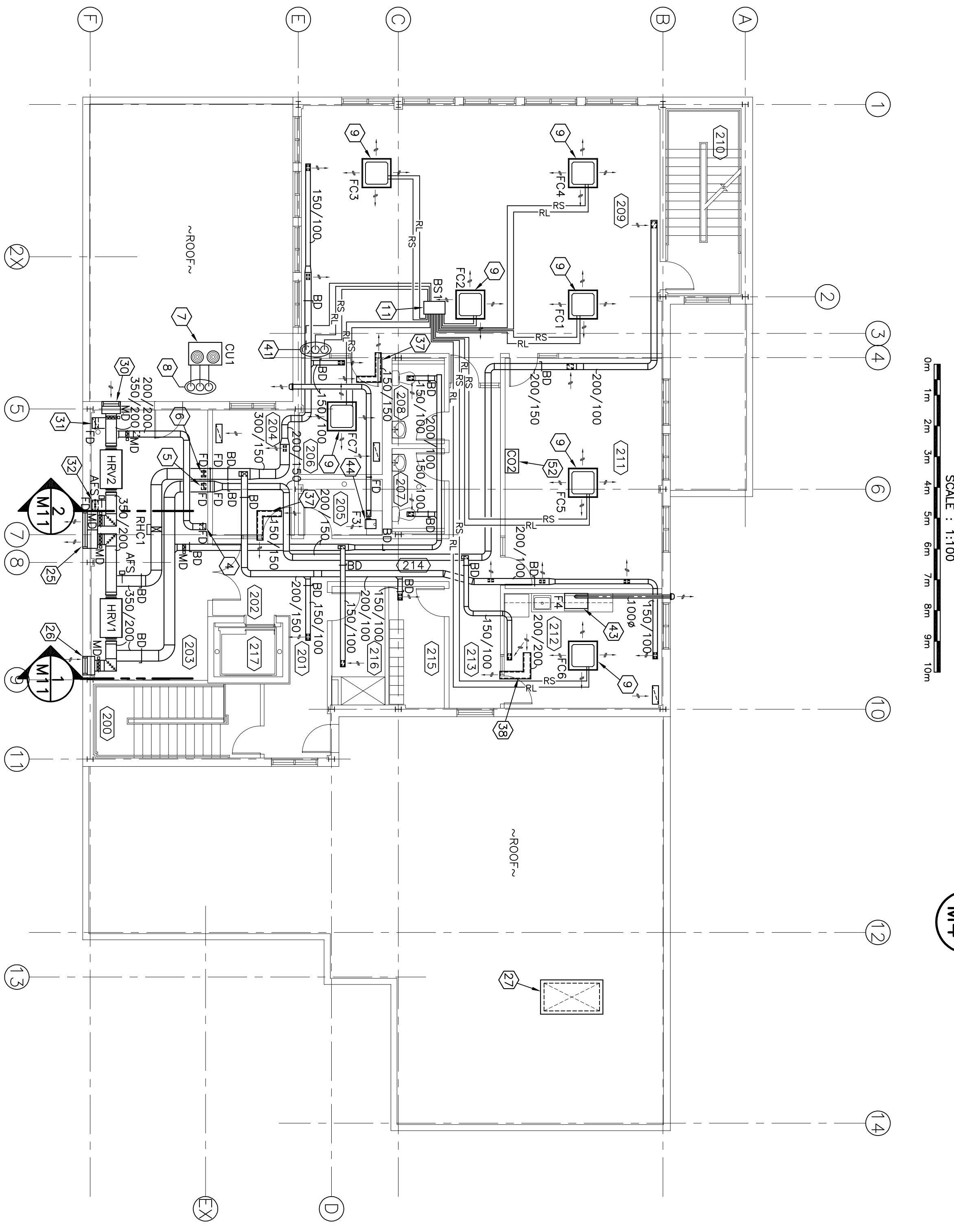
D	ISSUED FOR TENDER	JUL 2007
C	ISSUED FOR TENDER	JUN 2007
B	ISSUED FOR 98% REVIEW	MAY 2007
A	ISSUED FOR CLIENT REVIEW	APR 2007
revisions		2007
		date

MCTS CENTRE

## PORT AUX BASQUES

MECHANICAL  
HVAC PLANS[illegible]

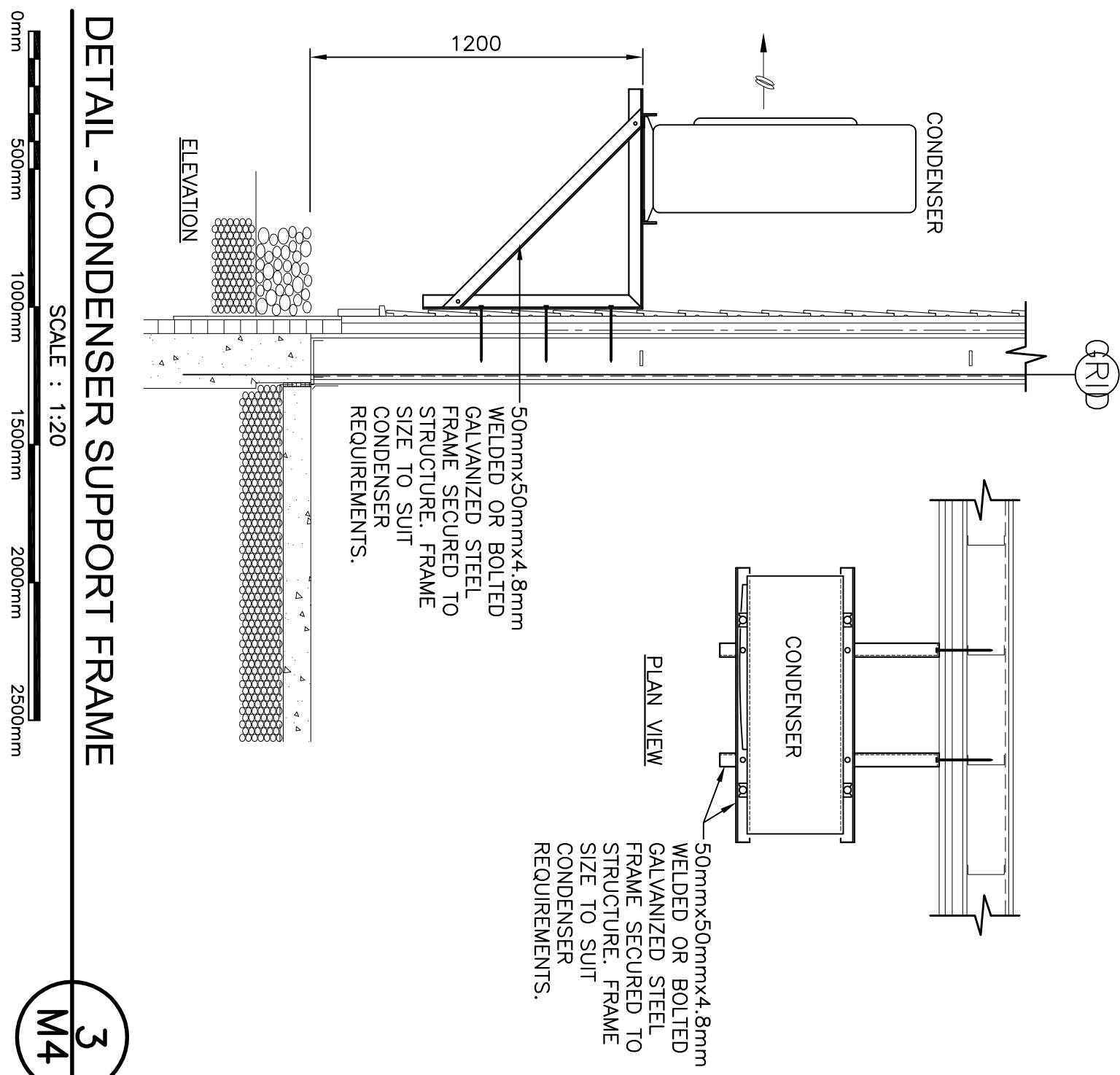
HVAC PLAN - LEVEL 1



HVAC PLAN - LEVEL 2

[illegible]

DRAWING LEGEND – HVAC	
RS	REFRIGERANT SUCTION PIPING
RL	REFRIGERANT LIQUID PIPING
EO	PIPE ELBOW DOWN
EO	PIPE ELBOW UP
EO	RIGID RECTANGULAR DUCTING
EO	RIGID ROUND DUCTING
EO	ACOUSTIC LINED DUCTING (INSIDE DIM. INDICATED).
EO	90° MITRED ELBOW W/ TURNING VANES
EO	SUPPLY AIR GRILLE
EO	RETURN OR EXHAUST AIR GRILLE
EO	SUPPLY AIR DUCT UP
EO	RETURN OR EXHAUST AIR DUCT UP
EO	SUPPLY AIR DUCT DOWN
EO	RETURN OR EXHAUST AIR DUCT DOWN
EO	TRIE (SEE SCHEDULE)
EO	DESIGN AIRFLOW
EO	FLEXIBLE CONNECTION BETWEEN HVAC EQUIPMENT AND RIGID DUCT WORK
EO	MOTORIZED DAMPER
EO	FRESH AIR INTAKE OR EXHAUST AIR LOWER ARROW INDICATES DIRECTION OF AIR
EO	MANUAL BALANCING DAMPER
EO	FIRE DAMPER C/M ACCESS DOOR
EO	CEILING OR WALL MOUNTED EVAPORATOR
EO	DUCTED FAN COIL UNIT
EO	REFRIGERANT CIRCUIT SELECTOR BOX
EO	DUCT MOUNTED REHEAT COIL
EO	HEAT RECOVERY VENTILATOR
EO	AIRFLOW SENSOR
EO	CARBON DIOXIDE SENSOR
EO	A – PLAN, SECTION, ELEVATION, OR DETAIL NUMBER B – NUMBER OF THE DRAWING WHERE THE ABOVE IS DRAWN



### DETAIL - CONDENSER SUPPORT FRAME

AIRFLOW SCHEDULE – LEVEL 1									
ROOM NUMBER/NAME	TYPE/S*	SIZE**	# REQ'D	AIRFLOW /S (L/S)	TYPE*	SIZE**	# REQ'D	AIRFLOW (L/S)	RETURY/EXHAUST
SUPPLY									
100 VESTIBULE	SA1	200x100	1	5	–	–	–	–	–
101 LOBBY	–	–	–	–	–	–	–	–	–
102 RECEPTION	–	–	–	–	–	–	–	–	–
103 SHARED EQUIPMENT (COPIER)	SA1	200x100	1	10	–	–	–	–	–
104 SHARED EQUIPMENT (COPIER)	SA1	200x100	1	15	–	–	–	–	–
105 F&I HEATED STORAGE	SA1	200x100	1	10	–	–	–	–	–
106 LAB ROOM	SA1	200x100	2	30	–	–	–	–	–
106.5 F&I TECHNOLOGS EQUIPMENT ROOM	SA1	200x100	2	30	–	–	–	–	–
107 LAB ROOM	SA1	200x100	2	30	–	–	–	–	–
109 WORK-UP SPACE	SA1/SA2	200x100/100x50	1/1	15 / 50	–	–	–	–	–
110 WORKSPACE – DIRTY	SA1/SA2	200x100/100x50	1/1	20 / 50	RA1	200x100	1	25	–
111 M&S STORAGE	SA1/SA2	200x100/100x50	1/1	10 / 50	RA1	200x100	1	10	–
112 M&S STORAGE	SA1/SA2	200x100/100x50	1/1	10 / 50	–	–	–	–	–
113 VESTIBULE	SA1	200x100	1	5	–	–	–	–	–
114 F&I CLEAN WORKSHOP	SA2	100x50	1	30	–	–	–	–	–
115 WORKSTATION #1	SA2	200x100	1	30	–	–	–	–	–
116 WORKSTATION #2	SA2	200x100	1	30	–	–	–	–	–
117 PERSONAL STORAGE AREA	SA2	100x50	1	30	–	–	–	–	–
118 WORKSTATION #3	SA2	100x50	1	30	–	–	–	–	–
119 WORKSTATION #4	SA2	100x50	1	30	RA1	200x100	1	70	–
120 INVA. TECH/INTRODUC	SA1/SA2	200x100/100x50	1/1	35 / 30	–	–	–	–	–
121 STORAGE	SA1	200x100	1	35	–	–	–	–	–
122 GENERATOR ROOM	SA1	200x100	1	25	–	–	–	–	–
123 ELECTRICAL ROOM	SA1	200x100	1	10	–	–	–	–	–
124 ELECTRICAL ROOM	SA1	200x100	1	10	–	–	–	–	–
125 WATER ENTRY	SA1	200x100	1	5	–	–	–	–	–
126 RECYCLING	–	–	–	–	–	–	–	–	–
128 STAIR #1	SA1	200x100	1	5	–	–	–	–	–
129 FEMALE WASHROOM	–	–	–	–	–	–	–	–	–
130 JANITOR	–	–	–	–	–	–	–	–	–
131 MALE WASHROOM	–	–	–	–	–	–	–	–	–
132 JANITOR	–	–	–	–	–	–	–	–	–
133 MALE WASHROOM	–	–	–	–	–	–	–	–	–
SEE SCHEDULE FOR DESCRIPTION									
** SIZE INDICATES FACE SIZE, Ø INDICATES NECK SIZE. ALL SIZES IN METRIC (mm).									
*** Ø INDICATES FACE SIZE, Ø INDICATES NECK SIZE. ALL SIZES IN METRIC (mm).									
AIRFLOW SCHEDULE – LEVEL 2									
ROOM NUMBER/NAME	TYPE/S*	SIZE**	# REQ'D	AIRFLOW /S (L/S)	TYPE*	SIZE**	# REQ'D	AIRFLOW (L/S)	RETURY/EXHAUST
SUPPLY									
200 STAIR #1	SA1	200x100	1	10	–	–	–	–	–
201 CORRIDOR	–	–	–	–	–	–	–	–	–
202 LOBBY	SA1	200x100	1	10	–	–	–	–	–
203 MECHANICAL ROOM	SA1	200x100	1	10	–	–	–	–	–
204 MECHANICAL ROOM	SA1	200x100	1	10	RA1	600x200	1	N/A	(TRANSFER)
205 JANITOR	SA1	200x100	1	10	–	–	–	–	–
206 M&S DEBRIS	SA1	200x100	1	10	RA1	600x200	1	N/A	(TRANSFER)
207 WASHROOM	–	–	–	–	–	–	–	–	–
208 WASHROOM	–	–	–	–	–	–	–	–	–
209 M&S OPERATIONS ROOM	SA1	200x100	2	30	RA1	200x100	1	60	–
210 STAIR #2	SA1	200x100	1	10	–	–	–	–	–
211 SHARED BOARDROOM/TRAINING	SA1	200x100	2	15	RA1	200x100	1	30	–
212 M&S KITCHEN	SA1	200x100	1	10	RA1	600x200	1	N/A	(TRANSFER)
213 CORRIDOR	SA1	200x100	1	5	–	–	–	–	–
214 CORRIDOR	SA1	200x100	1	5	–	–	–	–	–
215 SHARED BOARD ROOM	SA1	200x100	1	10	–	–	–	–	–
216 SHARED BOARD ROOM	SA1	200x100	1	10	–	–	–	–	–
217 ELEVATOR	–	–	–	–	–	–	–	–	–
SEE SCHEDULE FOR DESCRIPTION									
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