

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique



7	ISSUED FOR TENDER	OCT 31 2012
6	ISSUED FOR TENDER READY - SUBMISSION	SEPT 13 2012
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2	ISSUED FOR 50% REVIEW	MAR. 30 2012
1	ISSUED FOR COORDINATION	MAR. 23 2012
Revision/	Description/Description	Date/Date
Revision		
Client/client		

CORRECTIONAL
SERVICE OF
CANADA

Project title/Titre du projet

FRASER VALLEY INSTITUTION
33344 KING ROAD, ABBOTSFORD, BC
**TWENTY BED
LIVING UNIT**

Consultant Approval Box Only

Designed by/Concept par
PHILIP FUNG

Drawn by/Dessiné par
ACE

PWGSC Project Manager/Administrateur de Projets TPSGC
Patrick Truong

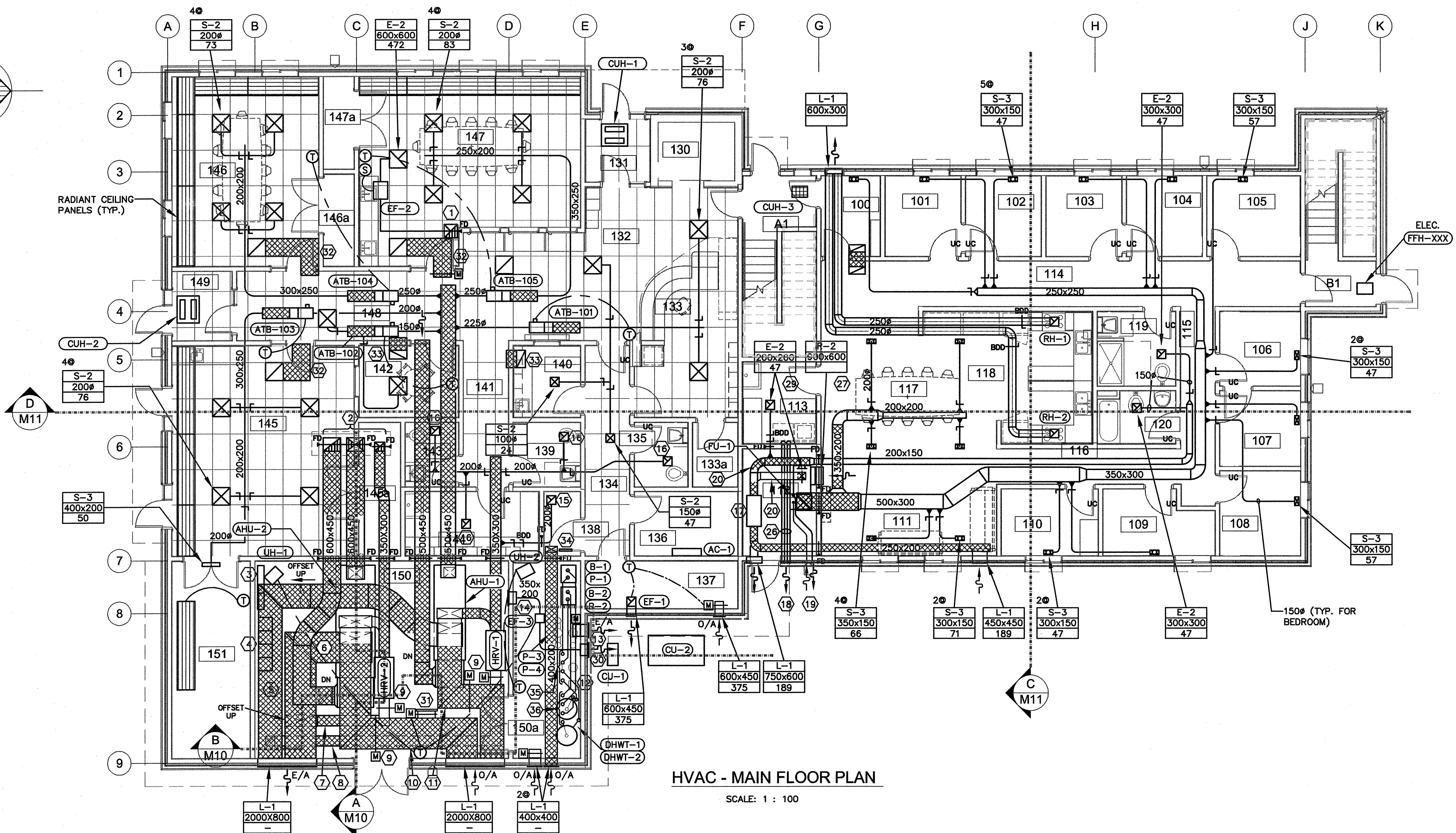
PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

MECHANICAL

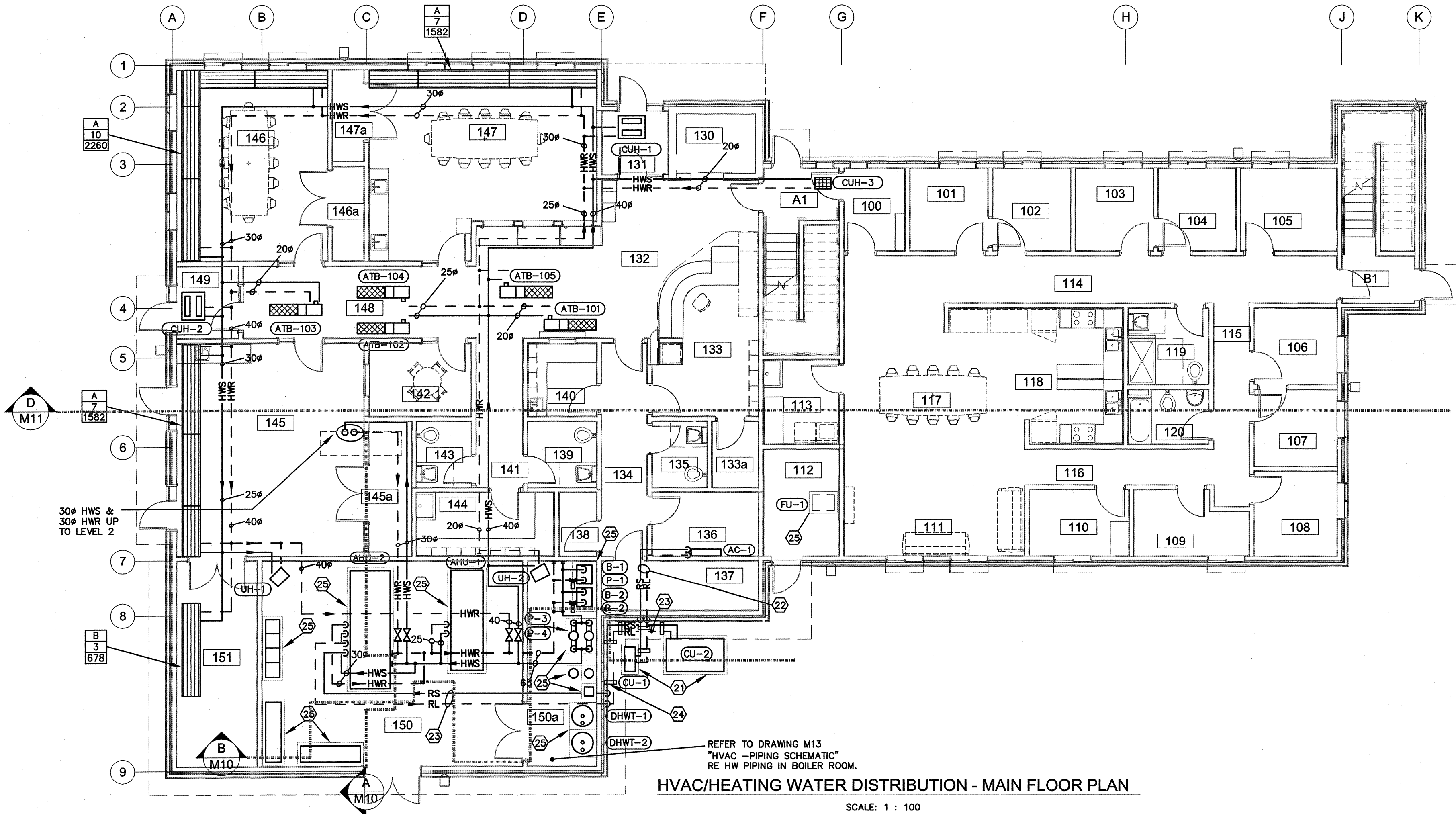
FLOOR PLAN - MAIN LEVEL
HVAC

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.052462.001	M3	



HVAC - MAIN FLOOR PLAN

SCALE: 1 : 100



HVAC/HEATING WATER DISTRIBUTION - MAIN FLOOR PLAN

SCALE: 1 : 100

SPECIFIC NOTES

- 350x350 (470L/S) E/A DUCT UP TO LEVEL 2 C/W FIRE DAMPER
- 600x450 S/A & R/A, 350x300 E/A DUCT UP TO LEVEL 2 OF MAIN BUILDING.
- DDC PANELS
- MCC PANELS
- 800x350 E/A DUCT FROM AHU-1
- 1050x400 E/A DUCT FROM AHU-2
- 350x300 E/A DUCT FROM HRV-2
- 350x300 E/A DUCT FROM HRV-1
- MOTORIZED DAMPER FOR O/A DUCT (TYP.)
- 1050x400 O/A DUCT TO AHU-2
- 800x350 O/A DUCT TO AHU-1
- ACID NEUTRALIZER
- BOILER ROOM RELIEF AIR LOUVER
L-1
400x400
- EXHAUST AIR GRILLE FROM MECH. ROOM 150
E-2
600x300
235
- EXHAUST AIR GRILLE FROM MACHINE ROOM
E-1
300x300
105
- CEILING MOUNTED HEAT RECOVERY VENTILATOR (HRV-3)
E-2
300x300
47
- 2# 100# DRYER VENT C/W WALL CAP. ENCLOSE DRYER VENTS INTO FIRE RATED ENCLOSURE.
- 75# FURNACE EXHAUST & INTAKE PIPES C/W FLUSH-MOUNT VENT TERMINATION KIT.
- 250x200 E/A DUCT TO HRV-3
- LOCATE CONDENSING UNIT ON CONCRETE PAD WITH VIBRATION ISOLATION PADS AND SEISMIC RESTRAINTS. MAINTAIN UNIT FROM WALLS, FENCES AND OBSTACLES WITH CLEARANCE AS PER MANUFACTURER RECOMMENDATION.
- INSULATE REFRIGERANT PIPES FROM CONDENSING UNIT TO INDOOR DX COILS C/W ALUMINIUM JACKETS FOR OUTDOOR PIPING.
- THREE (3) SETS OF REFRIGERATE PIPES FROM CONDENSING UNIT TO INDOOR DX COILS C/W ALUMINIUM JACKETS FOR OUTDOOR PIPING.
- PIPE SUPPORTS ON 100MM (W) x 100MM (H) TREATED WOOD SLEEPER CURBS (TYPICAL).
- 100MM HOUSEKEEPING PAD (TYP. OF ALL EQUIPMENT) APPROX. 100MM AROUND EQUIPMENT.
- ENCLOSE DRYER VENTS INTO FIRE RATED ENCLOSURE.
- MOUNT R/A GRILLE 150MM ABOVE FLOOR.
- 250x200 O/A DUCT FROM HRV-3 DOWN TO R/A PLENUM OF FU-1.
- INSTALL BALANCING DAMPERS & BACKDRAFT DAMPERS AT THE DUCTWORK CONNECTED TO THE E/A GRILLES.
- EXHAUST AIR LOUVER FOR EF-3
L-1
450x400
235
- O/A SUPPLY GRILLE TO MECH. ROOM
S-3
600x300
235
- 600x400 ACOUSTICALLY LINED T/A DUCT C/W R/A GRILLE
R-1
600x600
-
- 300x300 ACOUSTICALLY LINED T/A DUCT C/W R/A GRILLE
R-1
300x300
-
- DOOR GRILLE
DG-1
400x400
-
- 4 # 100# FLUE VENT UP THROUGH ROOF TO MANUFACTURER AND CODE REQUIREMENTS.
- 4 # 100# COMBUSTION AIR PIPE UP THROUGH ROOF TO MANUFACTURER AND CODE REQUIREMENTS.

GENERAL NOTES:

- COORDINATE WITH GENERAL CONTRACTOR FOR EXACT LOCATION AND ELEVATION OF ALL OUTDOOR LOUVRES.
- ALL BRANCH DUCTS TO DIFFUSERS/GRILLES SHALL BE AT LEAST SAME SIZE OF THE ASSOCIATED DIFFUSER/GRILLE UNLESS OTHERWISE SPECIFIED.
- COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DRAWINGS FOR THE LOCATION OF RADIANT PANELS TO FIT INTO T-BAR GRIDS. PROVIDE EXTRA T-BAR SUPPORTS AS REQUIRED.
- HWS AND HWR PIPING TO EACH RADIANT PANEL, ATB REHEAT COIL, CABINET HEATER AND UNIT HEATER SHALL BE AT LEAST 20MM UNLESS OTHERWISE SPECIFIED.
- COORDINATE EXACT LENGTH OF EACH SECTION OF RADIANT PANEL WITH ARCHITECTURAL REFLECTED CEILING AND T-BAR GRIDS PRIOR TO SUBMIT SHOP DRAWINGS. THE MAXIMUM LENGTH OF EACH SECTION OF PANEL TO BE 3 METRES.
- CABINET UNIT HEATER CUH-1 & CUH-2 WITH BOTTOM STAMPED LOUVRES TO FIT MODIFIED CEILING GRID.