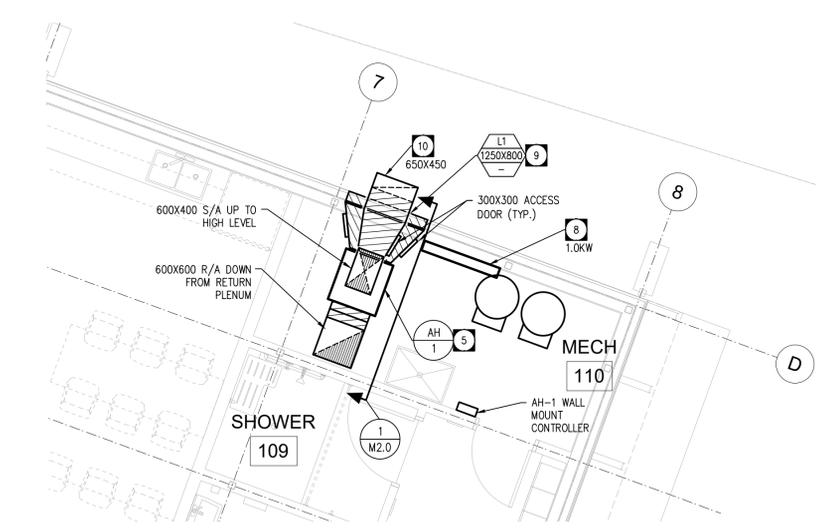


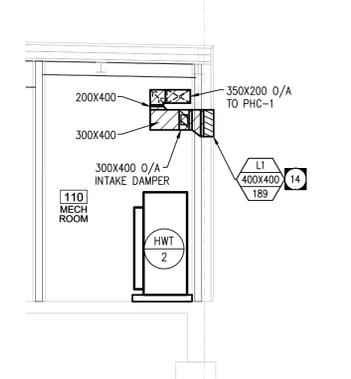
MAIN FLOOR HVAC
SCALE 1:100



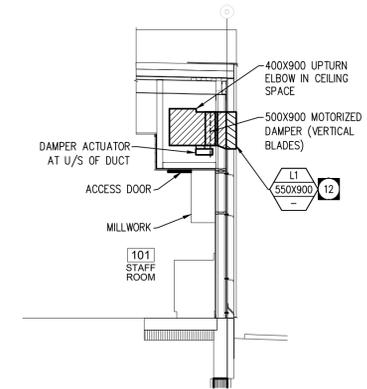
PARTIAL LOWER LEVEL - HVAC
SCALE 1:50

DRAWING NOTES

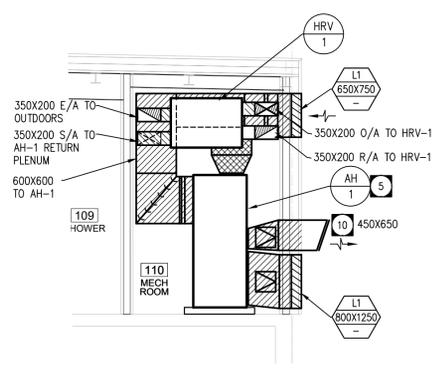
- 1 INSULATED SHOP AREA INTAKE DUCT WITH EXTERIOR HOOD (WITH BIRDSCREEN) AND UPTURN ELBOW ON THE INTERIOR. PROVIDE MOTORIZED DAMPER AT THE ENVELOPE PENETRATION.
- 2 INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE WITH SPRING TYPE VIBRATION ISOLATION. EXTEND INSULATED DISCHARGE TO EXTERIOR HOOD WITH BIRDSCREEN, AND MOTORIZED DAMPER AT ENVELOPE PENETRATION.
- 3 ELECTRIC UNIT HEATERS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. WASHBAY UNIT HEATER TO BE WASHDOWN TYPE SUITABLE FOR WET ENVIRONMENTS.
- 4 ELECTRIC FORCE FLOW HEATERS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 5 VERTICAL AIR HANDLING UNIT W/PACKAGED COOLING, MOUNTED ON CONCRETE HOUSEKEEPING PAD. EXTEND ACOUSTIC LINED SUPPLY AND RETURN DUCTS TO HIGH LEVEL AND OFFSET TO CEILING SPACE OF STAFF 101, WITH FIRE DAMPERS AT WALL PENETRATION. ROUTE CONDENSATE TO ADJACENT FLOOR DRAIN.
- 6 ELECTRIC DUCT MOUNT HEATING COILS; INSTALL TO MAINTAIN CLEARANCE TO SERVICE/CONTROL PANEL. PROVIDE 300X300 DUCT MOUNT ACCESS DOOR AT SIDE OF DUCT, UPSTREAM OF COIL. FOR INSPECTION. COORDINATE WITH G.C. FOR CEILING ACCESS DOOR TO SERVICE COIL AND INSPECTION DOOR.
- 7 HRV IN MECH 110 SUSPENDED FROM STRUCTURE WITH SPRING ISOLATION. PROVIDE EXTERIOR LOUVER AND MOTORIZED DAMPER ON INSULATED INLET DUCT, EXTEND TO PH-1 AND HRV-1 CONNECTION. EXTEND INSULATED EXHAUST DUCT TO MOTORIZED DAMPER AND EXTERIOR LOUVER. OFFSET INSULATED SUPPLY DUCT TO AH-1 RETURN PLENUM. ROUTE CONDENSATE TO ADJACENT FLOOR DRAIN.
- 8 ELECTRIC BASEBOARD HEATER PROVIDED/INSTALLED BY ELECTRIC CONTRACTOR.
- 9 ROUTE INSULATED AH-1 CONDENSER INLET SECTION FROM EXTERIOR INTAKE LOUVER. PROVIDE ACCESS DOORS IN DUCT FOR SERVICE. SLOPE BOTTOM OF DUCT DOWNWARDS TO EXTERIOR.
- 10 EXTEND INSULATED AH-1 CONDENSER EXHAUST SECTION THRU TO EXTERIOR HOOD, PROVIDE WELDED ANGLE AND METAL MESH SCREEN AT OUTLET (1/4" X 1/4"). SLOPE BOTTOM OF DUCT DOWNWARDS TO EXTERIOR.
- 11 DUCT MOUNT PH-1 COIL WITH DISCHARGE AIR TEMPERATURE CONTROLLER. PROVIDE 150X150 INSULATED ACCESS DOOR AT SIDE OF DUCT, UPSTREAM OF COIL FOR INSPECTION.
- 12 EXTERIOR RELIEF LOUVER AND ASSOCIATED MOTORIZED RELIEF DAMPER; EXTEND INSULATED RELIEF DUCT INTO CEILING SPACE BULKHEAD, PROVIDE UPTURN ELBOW, COORDINATE WITH GC FOR PLACEMENT OF ACCESS DOOR IN BULKHEAD. DAMPERS TO BE VERTICAL ORIENTATION, ACTUATOR AT U/S OF DAMPER; SETUP OF ACTUATOR AND CONFIRMATION OF OPERATION SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF BULKHEAD.
- 13 EXTERIOR EXHAUST LOUVER MOUNTED BETWEEN STRUCTURAL CROSS BRACING AT APPROXIMATELY 2670MM AFF TO U/S OF LOUVER; COORDINATE EXACT LOCATION WITH GC.
- 14 EXTERIOR INTAKE LOUVER MOUNTED BETWEEN STRUCTURAL CROSS BRACING AT APPROXIMATELY 2450MM AFF TO U/S OF LOUVER; COORDINATE EXACT LOCATION WITH GC. REFER TO SECTION.



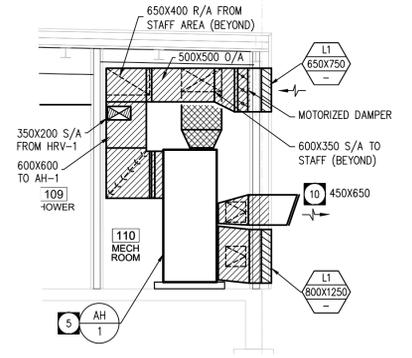
MECHANICAL PARTIAL SECTION
SCALE 1:50



MECHANICAL PARTIAL SECTION
SCALE 1:50



MECHANICAL PARTIAL SECTION
SCALE 1:50



MECHANICAL PARTIAL SECTION
SCALE 1:50

NO.	DATE	REVISION / ISSUANCE
0	2021.11.01	ISSUED FOR CONSTRUCTION

APCM
Certificate of Authorization
Novo 3 Engineering Ltd.
No.962 Date: 2021.11.01

J.S. DUTCHAK
REGISTERED PROFESSIONAL ENGINEER
2021.11.01

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Project
ST. VITAL PARK MAINTENANCE FACILITY
190 RIVER ROAD

Sheet Title
MAIN FLOOR HVAC

Project No. 20105
Date 21.11.01

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