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AIR HANDLING UNIT SCHEDULE

REF.	SUPPLY FAN MOTOR	SUPPLY FAN MOTOR	RETURN FAN MOTOR	RETURN FAN MOTOR	HEATING COIL	COOLING COIL	FILTRATION	REMARKS										
REF.	FLOW L/S	ESP. Pk	HP	REV. VOLTS	PHI. VFD	FLOW L/S	ESP. Pk	HP	REV. VOLTS	PHI. VFD	COIL REF.	COIL QTY.	FACE AREA (M ²)	TYPE	REMARKS			
AH-47	945	249	3.0	1750	575	3	YES	945	125	1.5	1750	575	3	YES	HC-1	400	MEV 11	EQUAL TO MCKEON MODEL CAH0060AM

COIL SCHEDULE

REF.	CAPACITY	AIR SIDE		WATER SIDE		REMARKS					
		SENSIBLE kW	TOTAL kW	FLOW L/S	ΔP Pa		FLOW L/S	ΔP Pa	W.T. °C		
CC-1	13.8	18.0	945	95	26.7/19.4	14.7/14.1	0.76	3.9	7.2	12.8	
HC-1	---	25.9	945	40	4.4/---	26.9/---	0.43	0.9	68.3	51.7	BASED ON 50% PROPYLENE GLYCOL

GRILLE & DIFFUSER SCHEDULE

REF.	FUNCTION	THROW DIRECTION	FRAME OR BORDER TYPE	NECK SIZE	COLOR	BALANCE DAMPER	REMARKS
A	SUPPLY	1-WAY	SURFACE	300x	ALUMINUM	IN BRANCH	EQUAL TO KREBER MODEL 380
B	RETURN	N/A	SURFACE	760x760	ALUMINUM	NO	EQUAL TO KREBER MODEL 380

GENERAL NOTES

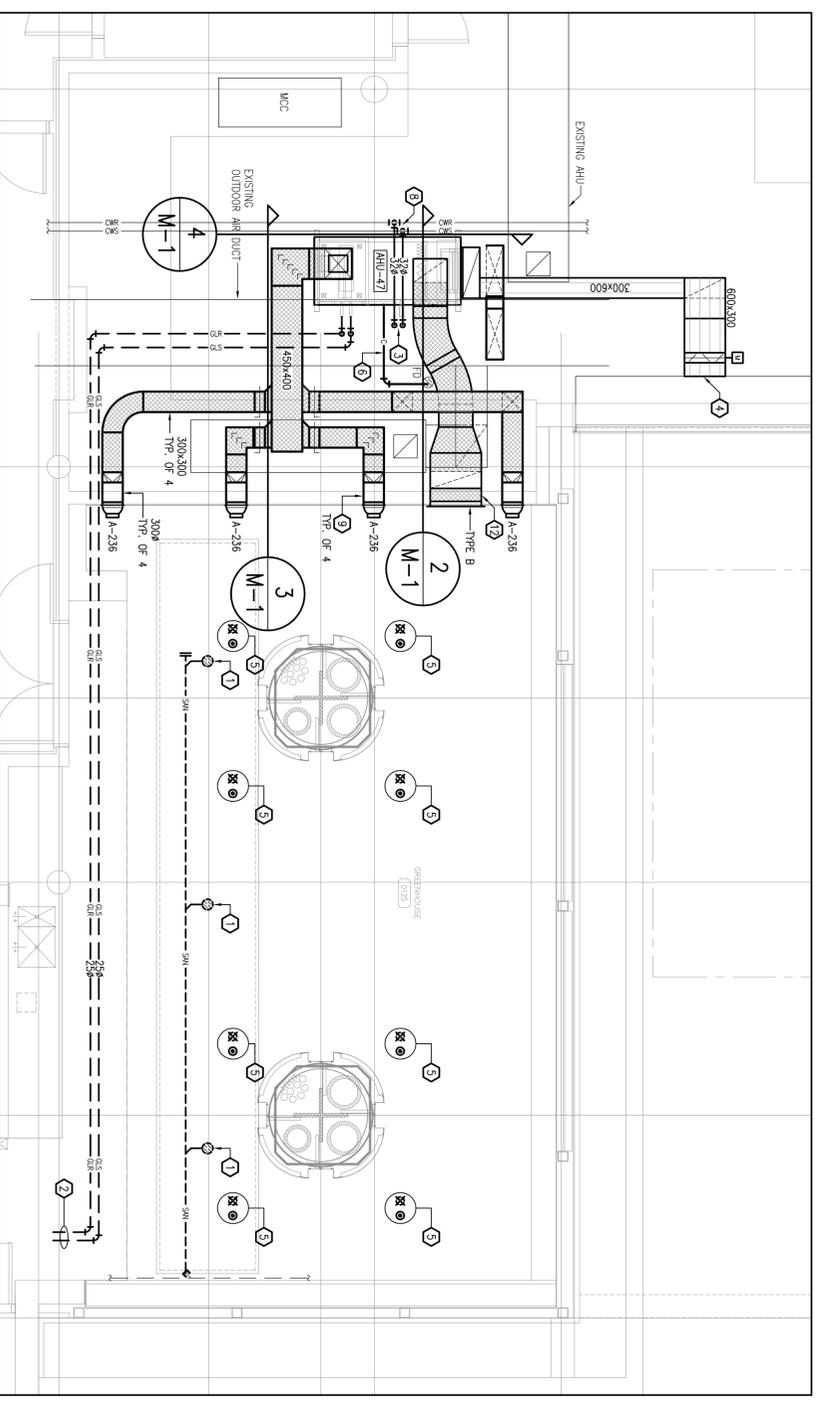
- PROVIDE OFFSETS AS REQUIRED FOR SUPPLY, RETURN, EXHAUST AND OUTDOOR AIR DUCTWORK AS REQUIRED TO AVOID EXISTING OBSTRUCTIONS. ALL OFFSETS MUST NOT BE LESS THAN 100mm (4") UNLESS OTHERWISE NOTED AND DUCT HANGERS IF REQUIRED TO SUIT NEW INSTALLATION.
- EXISTING SPRINKLER SYSTEM IS GYCOOL. CONTRACTOR TO RETELL WITH GYCOOL AT COMPLETION OF WORK.

DRAWING NOTES

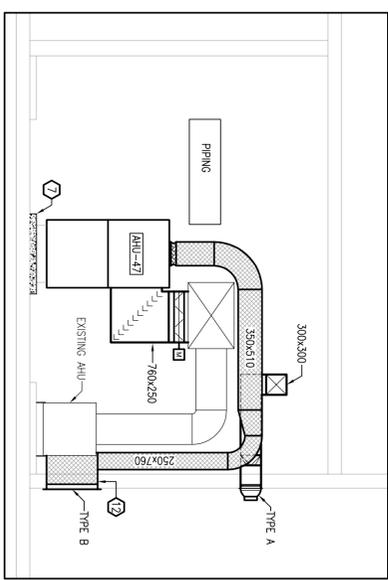
- REMOVE EXISTING PLASTER DRAIN AND CUT BACK AND CAP EXISTING PIPING ON FLOOR BELOW.
- RUN NEW GYCOOL HEATING PIPING FROM EXISTING CAPPED CONNECTION AT HEAT EXCHANGER ON FLOOR BELOW APPROXIMATELY IN THIS LOCATION.
- NEW PIPING UP THROUGH FLOOR SLAB APPROXIMATELY IN THIS LOCATION. X-99V FLOOR TO LOCATE REBAR AND CONDUITS.
- CONNECT NEW EXHAUST DUCT TO EXISTING EXHAUST PLenum. RELOCATE EXISTING ACCESS DOOR AS REQUIRED.
- REMOVE EXISTING UPRIGHT SPRINKLER HEAD AND SUPPLY AND INSTALL NEW FULLY RECESSED SPRINKLER HEAD WITH STAINLESS STEEL COVER PLATE. MODIFY PIPING AS REQUIRED OF HEAD WITH NEW SENSORIZED WAGO CEILING.
- RUN NEW DRAIN LINE FROM NEW AIR HANDLING UNIT TO EXISTING FLOOR DRAIN AS REQUIRED.
- NEW 100mm HIGH CONCRETE HOUSING/KEEPING PAD.
- CONNECT TO EXISTING CHILLED WATER MAINS. PROVIDE HOT TAPS AS REQUIRED.
- CONCRETE BRILL BLOCK WALL FOR NEW DUCT.
- CONNECT STEAM LINE TO NEW HANDIFIER WITHIN AIR HANDLING UNIT. COORDINATE QUANTITY OF CONNECTIONS WITH MECHANICAL UNIT SUPPLIER AND PROVIDE HEADERS AS REQUIRED.
- CONNECT TO EXISTING DOW PIPING AS REQUIRED. PROVIDE ISOLATION VALVES AT CONNECTION TO DOW MAIN AND AT LOW LEVEL NEAR DRAIN COOLER.
- PROVIDE STEEL LINTEL ABOVE NEW OPENING AS REQUIRED.

LEGEND

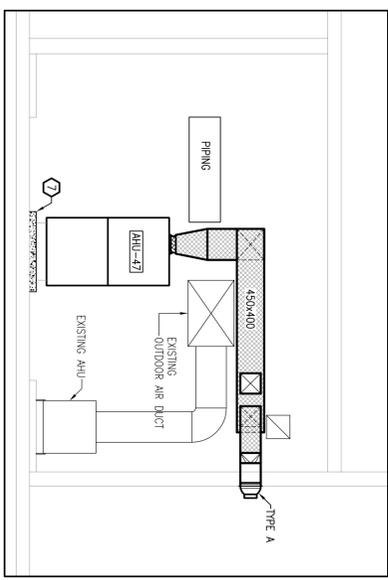
REMOVED AND/OR RELOCATED	EXISTING TO REMAIN	NEW	LEGEND
			GYCOOL SUPPLY PIPING BELOW FLOOR
			GYCOOL RETURN PIPING BELOW FLOOR
			CHILLED WATER SUPPLY PIPING
			CHILLED WATER RETURN PIPING
			LOW PRESSURE STEAM PIPING
			LOW PRESSURE CONDENSATE PIPING
			DRAIN/DRAIN BODY
			GATE VALVE
			CIRCUIT BALANCING VALVE
			BALL VALVE
			CONTROL VALVE - 2 WAY
			CONTROL VALVE - 3 WAY
			STRAINER
			AUTOMATIC AIR VENT
			MANUAL AIR VENT
			THERMOMETER
			PRESSURE GAUGE & COCK
			ELBOW UP OR DOWN
			BRANCH CONNECTION BOTTOM & TOP
			REDUCER
			UNION OR FLANGE
			STEAM TRAP
			UPRIGHT SPRINKLER HEAD
			FLUSH SPRINKLER HEAD
			RECTANGULAR & ROUND SUPPLY AIR DUCT
			RECTANGULAR & ROUND RETURN OR EXHAUST AIR DUCT
			AIR DUCT
			RETURN OR EXHAUST DUCT
			INTERNAL ACOUSTIC DUCT LINING
			BALANCING DAMPER
			TURNING VANES
			SQUARE TO ROUND TRANSITION
			FLEXIBLE CONNECTION
			MOTOR OPERATED DAMPER
			DRIBBLE (SEE DIMS OR SPECS)
			XXX=PRODUCT FOR EXH(L)S



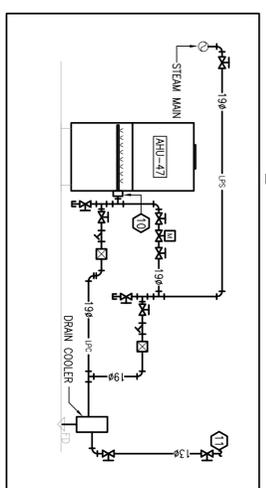
1 PLAN VIEW
M-1
1:50



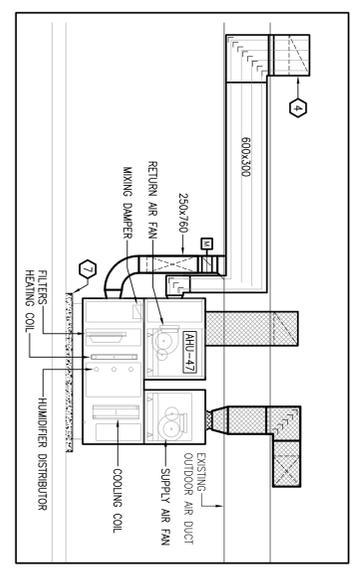
2 SECTION VIEW
M-1
1:50



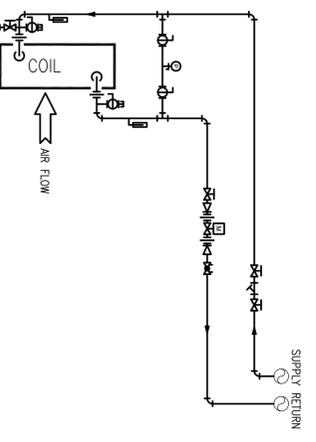
3 SECTION VIEW
M-1
1:50



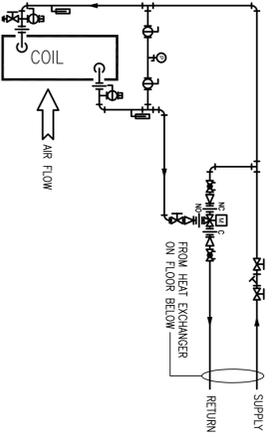
7 STEAM SCHEMATIC
M-1
N.T.S.



4 SECTION VIEW
M-1
1:50



5 COOLING COIL PIPING DETAIL
M-1
N.T.S.



6 HEATING COIL PIPING DETAIL
M-1
N.T.S.

PROJECT: SOLARIUM CAFE CANADIAN MUSEUM OF NATURE 240 McLEOD STREET OTTAWA, ONTARIO	DESIGNED BY: G.S. DRAWN BY: G.S. CHECKED BY: S.C. SCALE: AS NOTED	DATE: MAY 2013
PROJECT NO. 13-144	DRAWING NO. M-1	

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NO.	REVISION	DESCRIPTION	DATE
1.	ISSUED FOR TENDER		JUL 23/13
2.	ISSUED FOR REVIEW		MAY 17/13

