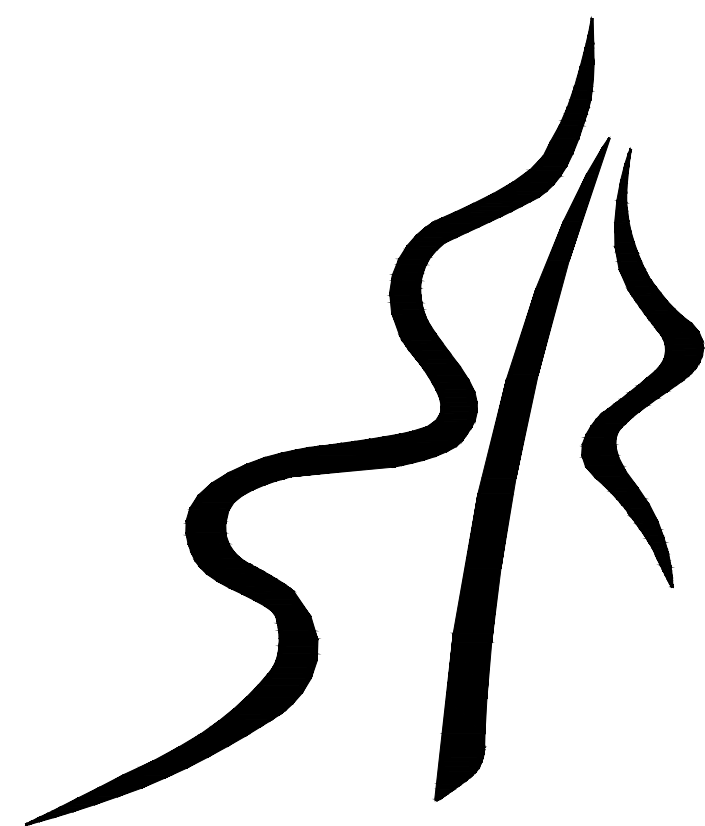


LYDIA TRULL PUBLIC SCHOOL

COUTRICEONTARIO



KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

MECHANICAL UPGRADES

80 AVONDALE DR, COURTICE, ON L1E 3C2

CONSULTANTS:

PRIME CONSULTANT

DEI CONSULTING ENGINEERS INC.
55 NORTHLAND ROAD
WATERLOO, ONTARIO
N2V 1Y8

ELECTRICAL CONSULTANT

DEI CONSULTING ENGINEERS INC.
55 NORTHLAND ROAD
WATERLOO, ONTARIO
N2V 1Y8

LYDIA TRULL PUBLIC SCHOOL
COUTRICEONTARIO



KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD



55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: delassociates.ca

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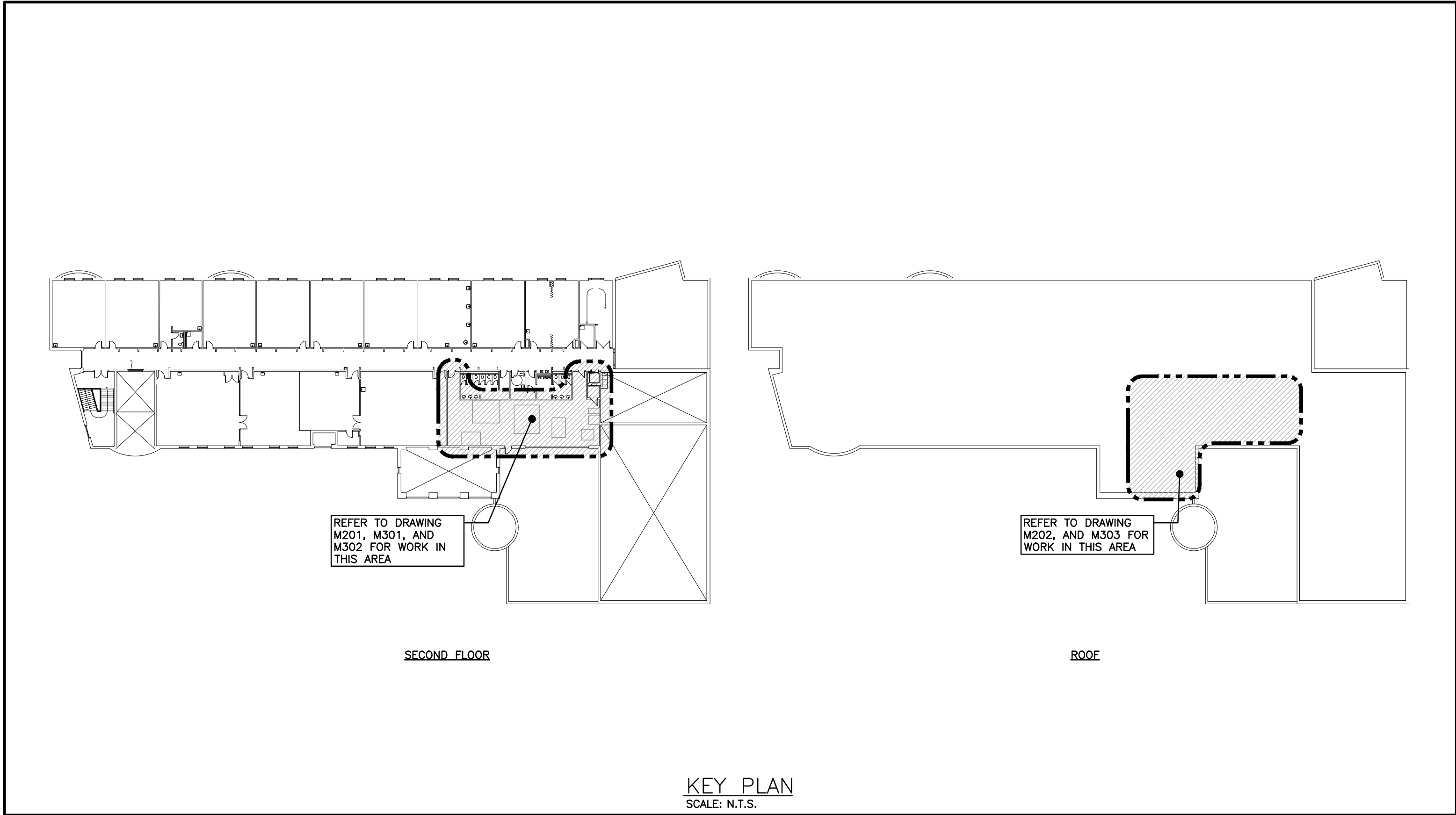
DRAWING LIST

MECHANICAL	
M101	LEGEND, SCHEDULES, & KEY PLAN
M201	GENERAL TRADES PLANS – DEMOLITION & RENOVATION
M202	GENERAL TRADES PLANS – DEMOLITION & RENOVATION
M301	SECOND FLOOR MECHANICAL ROOM PLAN – DEMOLITION
M302	SECOND FLOOR MECHANICAL ROOM PLAN – RENOVATION
M303	ROOF PLAN – DEMOLITION & RENOVATION
M401	SCHEMATICS & DETAILS

ELECTRICAL	
E101	LEGEND, SCHEDULES, & KEY PLAN
E201	SECOND FLOOR MECHANICAL ROOM PLAN – DEMOLITION & RENOVATION
E202	ROOF PLAN – DEMOLITION & RENOVATION

SET NUMBER

24300



FAN SCHEDULE									
Item	Type	Service	Exhaust Capacity cfm	Air Size in. hp	Data SP in. wc	Voltage	Manufacturer	Model	Remarks
RF-01	TUBULAR CENTRIFUGAL	AHU-1	20000	15	1.5	575/3/60	PENN BARRY	TUB-330	C/W VIBRATION ISOLATION HANGERS, BELT DRIVE
RF-02	FLOOR MOUNTED EXHAUST	AHU-2	3750	3	1.0	575/3/60	DAIKIN	CAH008GVAC	C/W VIBRATION ISOLATION, FLOOR MOUNTED CABINET EXHAUST FAN, END INLET, TOP DISCHARGE
RF-03	TUBULAR CENTRIFUGAL	AHU-3	4750	3	1.0	575/3/60	PENN BARRY	TUB-222	C/W VIBRATION ISOLATION HANGERS, BELT DRIVE

AIR COOLED CONDENSING UNIT SCHEDULE																	
Item	Type		Service	Capacity MBH	Compressor			Refrig.	Sat. Suction Temp. °F	No. of Cond. Fans	Electrical			Unit Weight lbs	Manufacturer	Model	Remarks
					Type	No.	No. Stages				Voltage	MCA	MOCp				
CU-1	OUTDOOR	ROOF MOUNTED	AHU-1	1091	SCROLL	6	6	R410A	40	2	575/3/60	162.7	175	6400±	DAIKIN	RCS110D	
CU-2	OUTDOOR	ROOF MOUNTED	AHU-2	245	SCROLL	3	4	R410A	40	2	575/3/60	34.3	45	2850±	DAIKIN	RCS020D	
CU-3	OUTDOOR	ROOF MOUNTED	AHU-3	172	SCROLL	2	2	R410A	40	2	575/3/60	25.1	30	2750±	DAIKIN	RCS015D	

PUMP SCHEDULE											
Item	Type	Services	Capacity USgpm	Head ft	Size hp	Speed rpm	Electrical Voltage	Manufacturer & Model	Remarks		
EX-P-3	VERTICAL IN-LINE CENTRIFUGAL	GLYCOL SYSTEM	140	55	5	1800	575/3/60	BELL & GOSSETT E80 2x2x9.5C	REBALANCE EXISTING PUMP. PROVIDE NEW IMPELLER		
EX-P-4	VERTICAL IN-LINE CENTRIFUGAL	GLYCOL SYSTEM	140	55	5	1800	575/3/60	BELL & GOSSETT E80 2x2x9.5C	REBALANCE EXISTING PUMP. PROVIDE NEW IMPELLER		

AIR HANDLING UNIT SCHEDULE																											*ESP IS EXTERNAL TO THE CABINET									
Item	Type	Service	Supply Air Fan Data					ESP in. wg	Min. Position Outdoor Air %	Voltage	Cooling										Heating															
			Capacity cfm	Size hp	Variable Drive	Frequency Drive					Medium	Coil Type	Sens. Cap. MBH	Total Cap. MBH	Cooling Rows Fins/in	Entering db/wb	Leaving db/wb	Face Vel. fpm	P.D., Air in.	Medium	Capacity MBH	GPM	EAT db °F	LAT db °F	EWI db °F	LWT db °F	Manufacturer	Model	Weight lbs	Remarks						
AHU-1	BUILT-UP INDOOR AIR HANDLING UNIT	UPPER & LOWER CLASSROOMS	24000	25	VARIABLE DRIVE	FREQUENCY DRIVE		2.0	30%	575/3/60	R454B	DX	658.7	1089.1	6/10	80.4/68.5	55.4/54.1	491.2	.82	50% P.GLYCOL	950.6	100	45.3	83.5	145	125	HAAKON		5200±	INTERCONNECT WITH CU-1 & RF-01						
AHU-2	BUILT-UP INDOOR AIR HANDLING UNIT	SECOND FLOOR CLASSROOMS	5750	7.5	VARIABLE DRIVE	FREQUENCY DRIVE		1.5	40%	575/3/60	R454B	DX	155.6	245.3	6/10	81/68.1	55.1/53.8	431	.67	50% P.GLYCOL	131.8	22.8	36	65	145	132.1	DAIKIN	CAH014GDM	1700±	INTERCONNECT WITH CU-2 & RF-02						
AHU-3	BUILT-UP INDOOR AIR HANDLING UNIT	LIBRARY	5500	7.5	VARIABLE DRIVE	FREQUENCY DRIVE		2.0	25%	575/3/60	R454B	DX	133	205	6/10	81/69	54/53	360	0.6	50% P.GLYCOL	205	22.8	50	85	145	125	DAIKIN	CAH014GDM	1700±	INTERCONNECT WITH CU-3 & RF-03						

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MECHANICAL LEGEND

Item	Description	Item	Description
—+—	CUT EXISTING & CONNECT NEW PIPING	—BV—	BALL VALVE
—>—	FLOW DIRECTION	—f—	BUTTERFLY VALVE
—•—	DOMESTIC COLD WATER PIPING	—G—	GATE VALVE
—••—	DOMESTIC HOT WATER PIPING	□AV	AIR VENT
—•••—	DOMESTIC HOT WATER RECIRC. PIPING	←	RISER VALVE
—EX-SAN—	EXISTING SANITARY PIPING ABOVE FLOOR	—BV—	BALANCING VALVE
—EX-SAN—	EXISTING SANITARY PIPING BELOW FLOOR	—P—	INLINE PUMP
—EX-ST—	EXISTING STORM PIPING ABOVE FLOOR	—T—	TRIPLE DUTY VALVE
—CD—	CONDENSATE PIPING	—CO—	FLOOR CLEANOUT
—HWS—	HEATING WATER SUPPLY PIPING	TP	TEMPERATURE & PRESSURE RELIEF VALVE
—HWR—	HEATING WATER RETURN PIPING	—P—	PRESSURE GAUGE
—GHS—	GLYCOL HEATING SUPPLY	—P—	TEMPERATURE GAUGE
—GHR—	GLYCOL HEATING RETURN	—T—	THERMOMETER
—G—	NATURAL GAS PIPING	□FS	FLOW SWITCH
—LPS—	LOW PRESSURE STEAM PIPING (PRESSURE INDICATED)	—PRV—	PRESSURE REDUCING VALVE
FD	FLOOR DRAIN	—T—	THERMOSTAT (WITH OR WITHOUT GUARD)
—T—	TRAP PRIMER PIPING	—S—	SUPPLY AIR DUCT
—T—	TEE CONNECTION	—R—	RETURN/EXHAUST AIR DUCT
—P—	PIPE DOWN	—BD—	BALANCING DAMPER
—U—	PIPE UP	—OBD—	OPPOSED BLADE DAMPER
—G—	SIGHT GLASS	—M—	MOTORIZED DAMPER (OPPOSED BLADE)
—F—	FLEXIBLE CONNECTION	—FD—	FIRE DAMPER
—R—	REDUCER/INCREASER	—BDD—	BACKDRAFT DAMPER
—C—	CHECK VALVE	—R—	RIGID ROUND DUCT
—B—	BACKFLOW PREVENTER	—D—	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
—B—	REDUCED PRESSURE BACKFLOW PREVENTER	—D—	HYDRONIC HEATING SIZE, TYPE & CAPACITY
—U—	UNION	—AD—	ACCESS DOOR
—S—	STRAINER	—AFF—	ABOVE FINISHED FLOOR
—Y—	DRAIN (SCHEMATICS)	—AFR—	ABOVE FINISHED ROOF
—P—	PLUG VALVE	—EX—	EXISTING DUCT (SIZE AS INDICATED)
—RL—	REFRIGERANT LIQUID	—HG—	HOT GAS
—RS—	REFRIGERANT SUCTION		

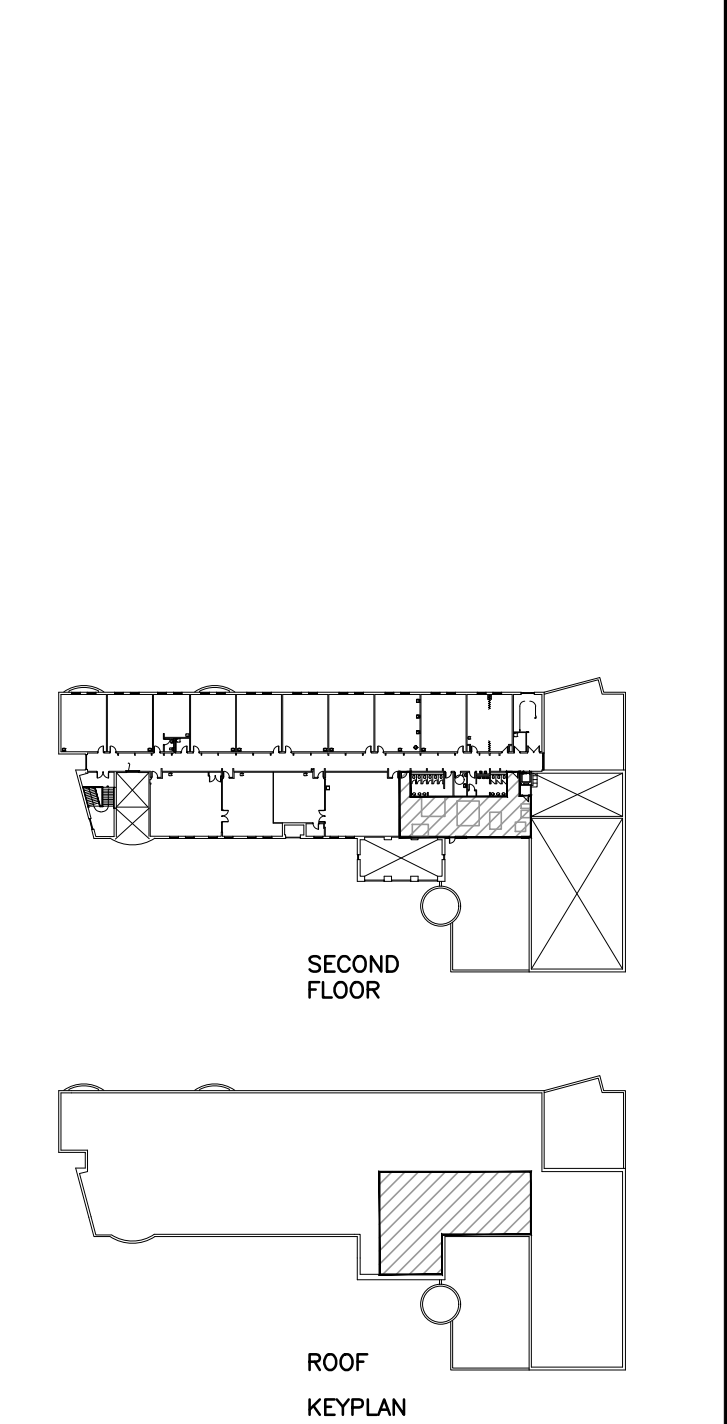
GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MIN 14"-0" FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:
 - NFPA-13 SPRINKLER CONTRACTOR'S MATERIAL & TEST CERTIFICATE
 - NFPA-13 FIRE PROTECTION BYPASS FLOW TEST
 - FIRE PROTECTION ENGINEER'S INSPECTION/ CONFORMANCE LETTER
 - TSSA CERTIFICATE OF AUTHORIZATION FOR SPLIT AIR CONDITIONING SYSTEMS (EXCEEDING 5 TONS)
- LETTER FROM CONTRACTOR VERIFYING THAT ALL REFRIGERATION LEAK DETECTION SYSTEMS AND THEIR INTERLOCKS TO DOWNSTREAM DEVICES HAVE BEEN INSTALLED AND TESTED
- ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

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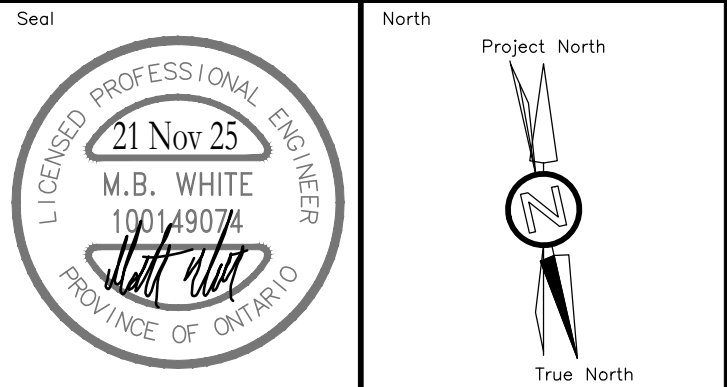
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ONTARIO



KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD



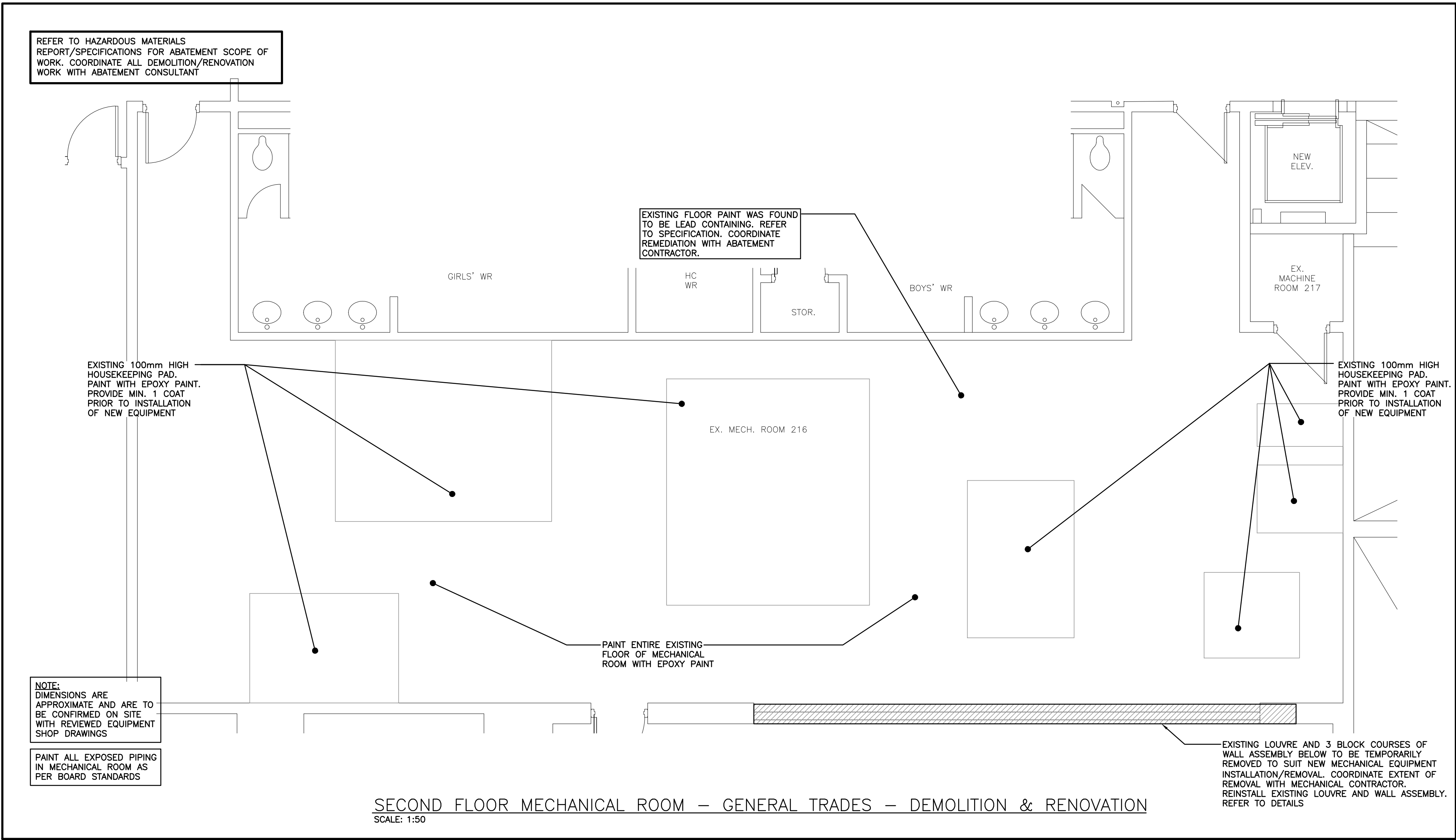
RENOVATION TO:
LYDIA TRULL PUBLIC SCHOOL MECHANICAL UPGRADES

80 Avondale Dr, Courtice, ON L1E 3C2

Sheet Title
LEGEND, SCHEDULES, & KEY PLAN

DEI
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Drawn by KB	Checked by DB	Approved by MW
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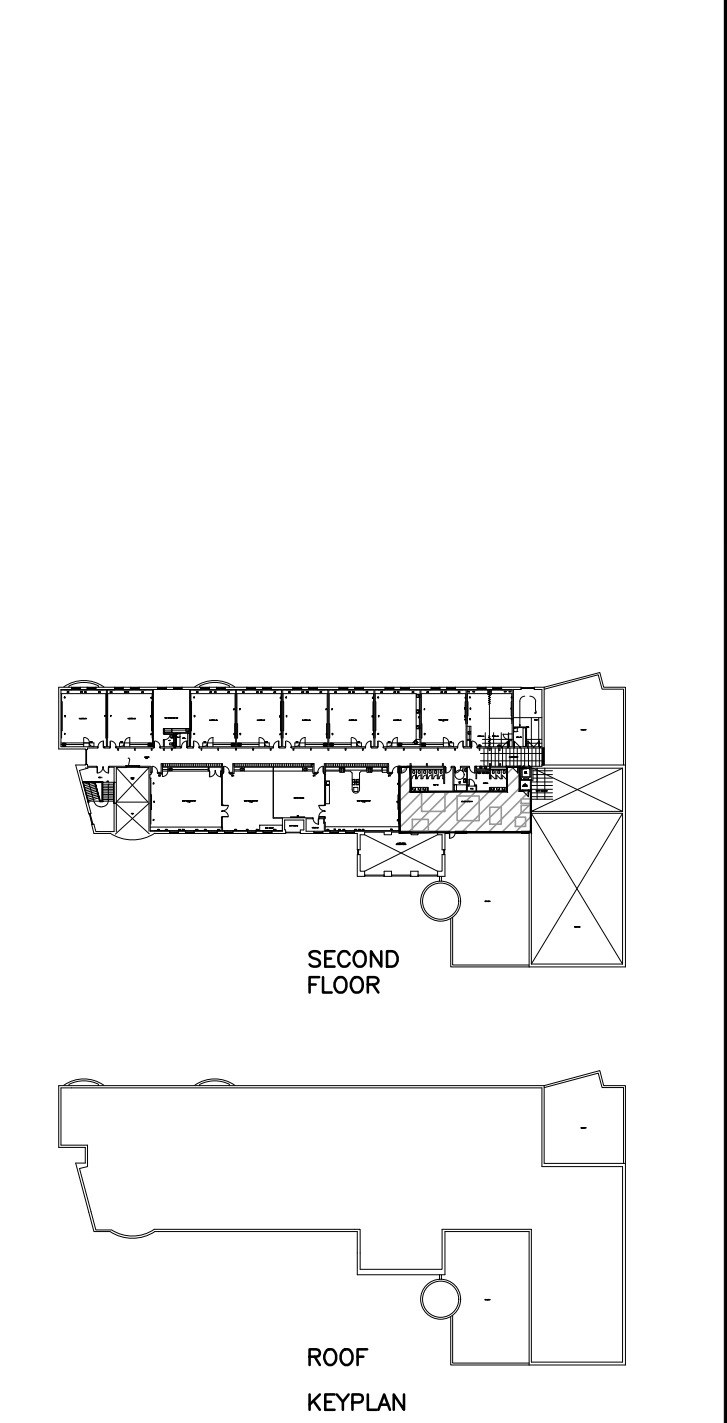
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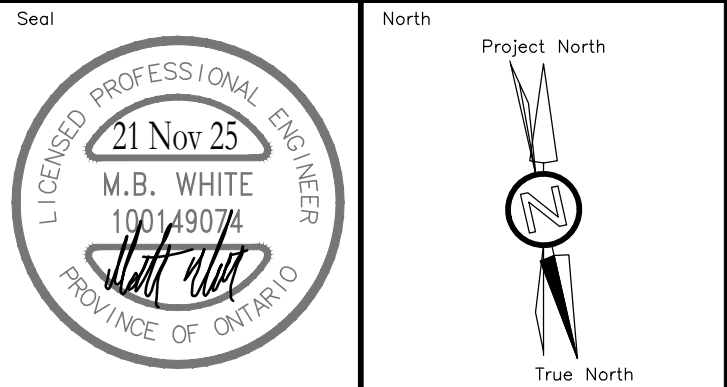
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RENOVATION TO:
LYDIA TRULL PUBLIC SCHOOL MECHANICAL UPGRADES

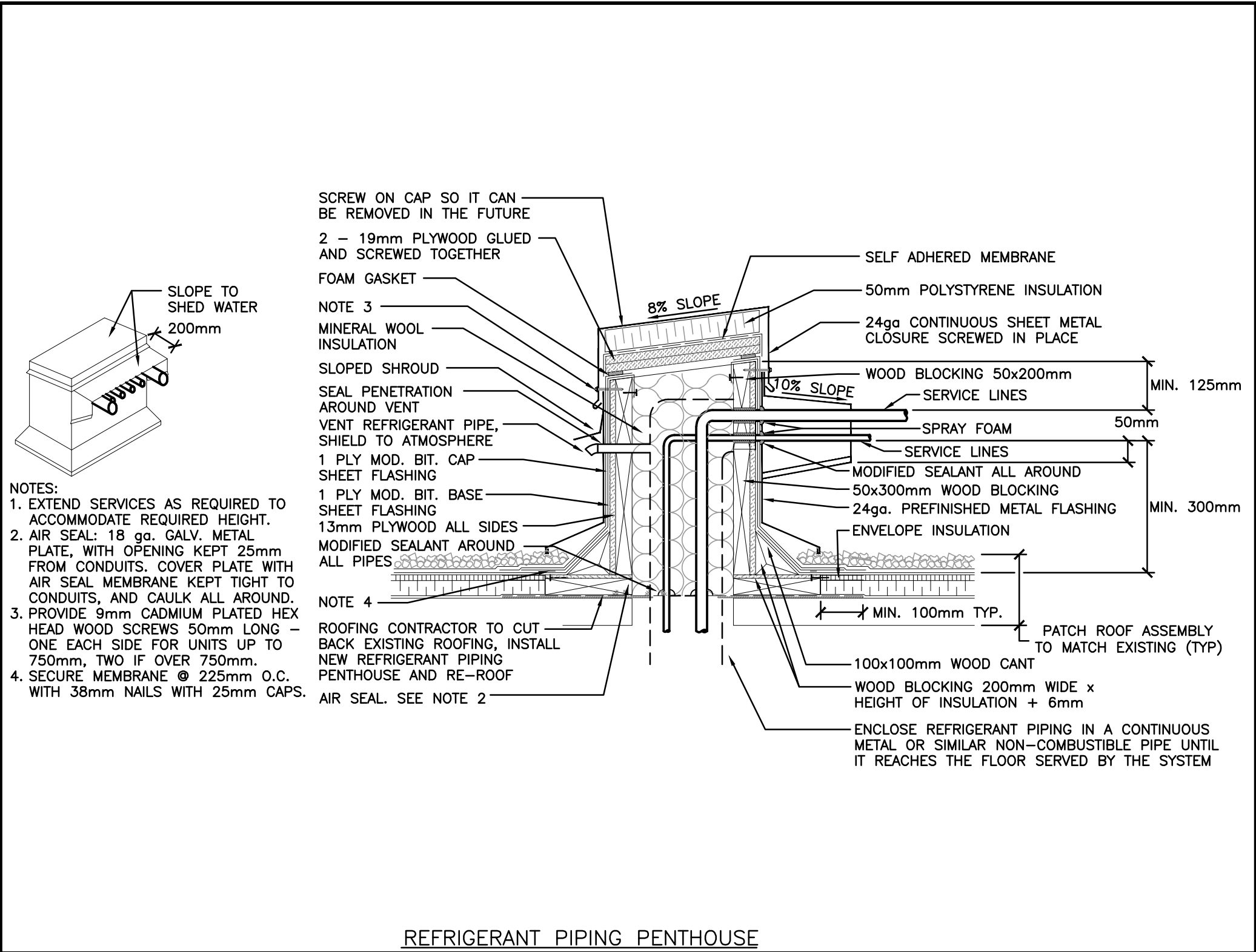
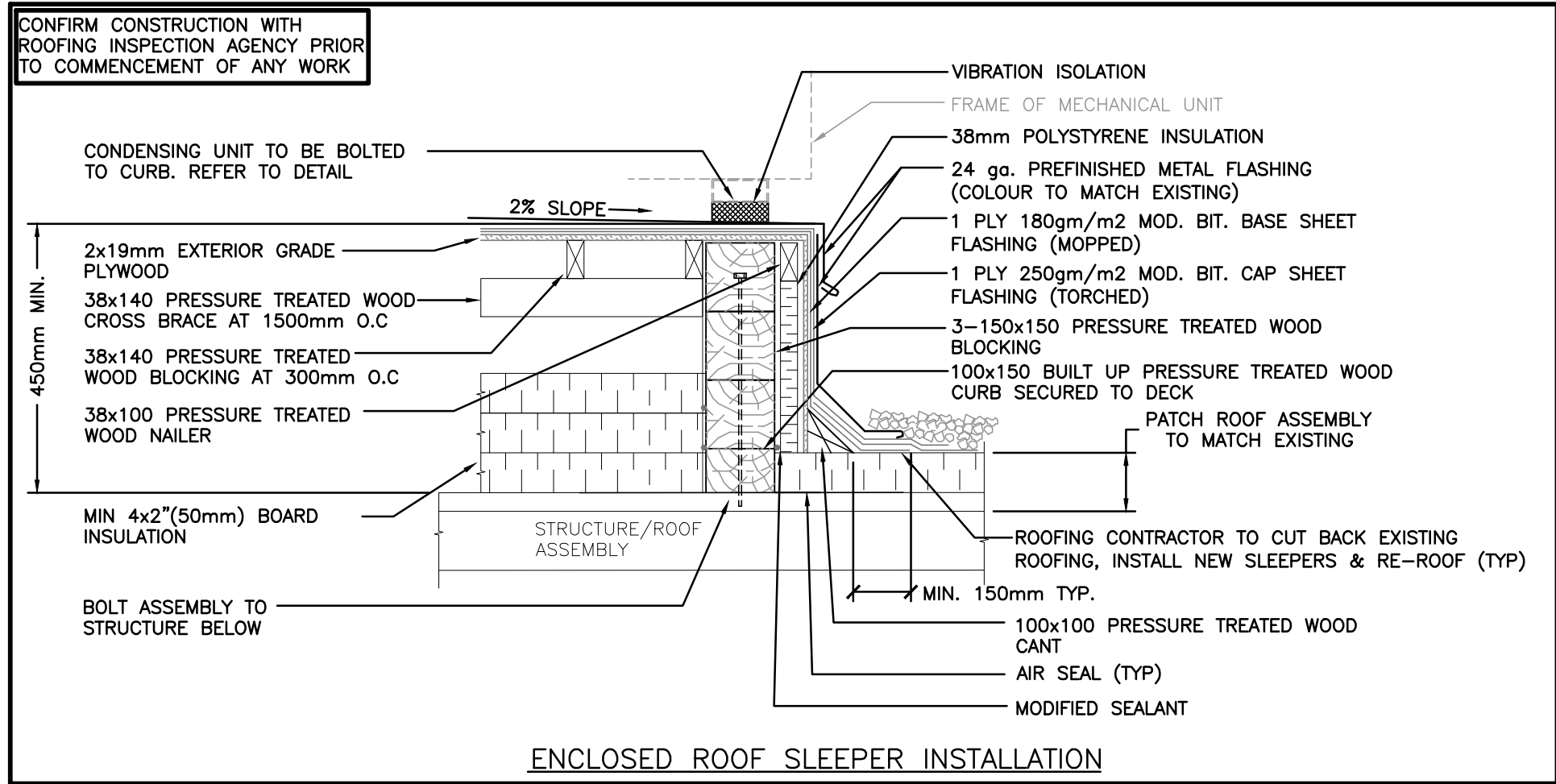
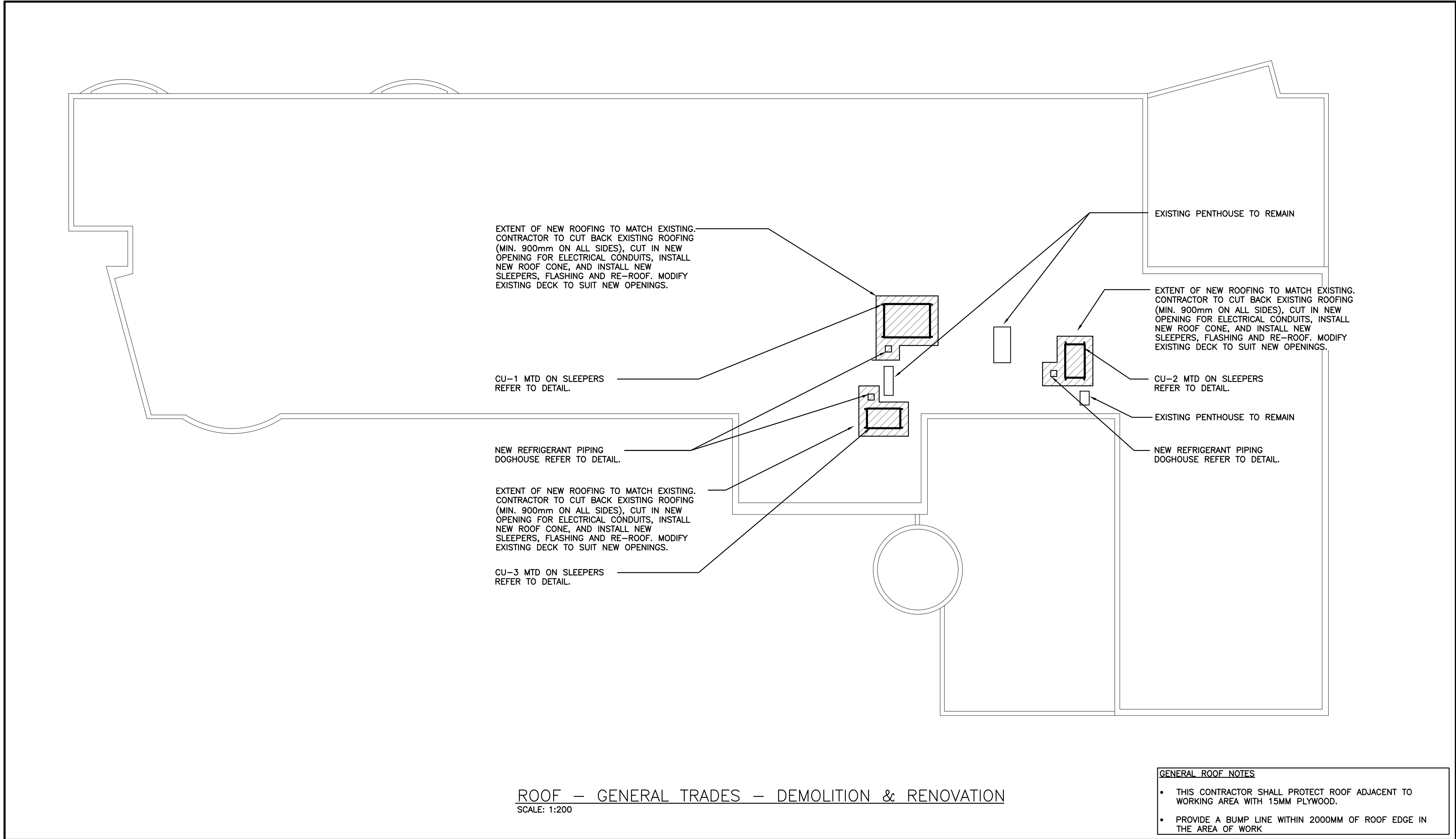
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Sheet Title
**GENERAL TRADES PLANS
— DEMOLITION &
RENOVATION**

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Project No. 24300	Drawing No. M201
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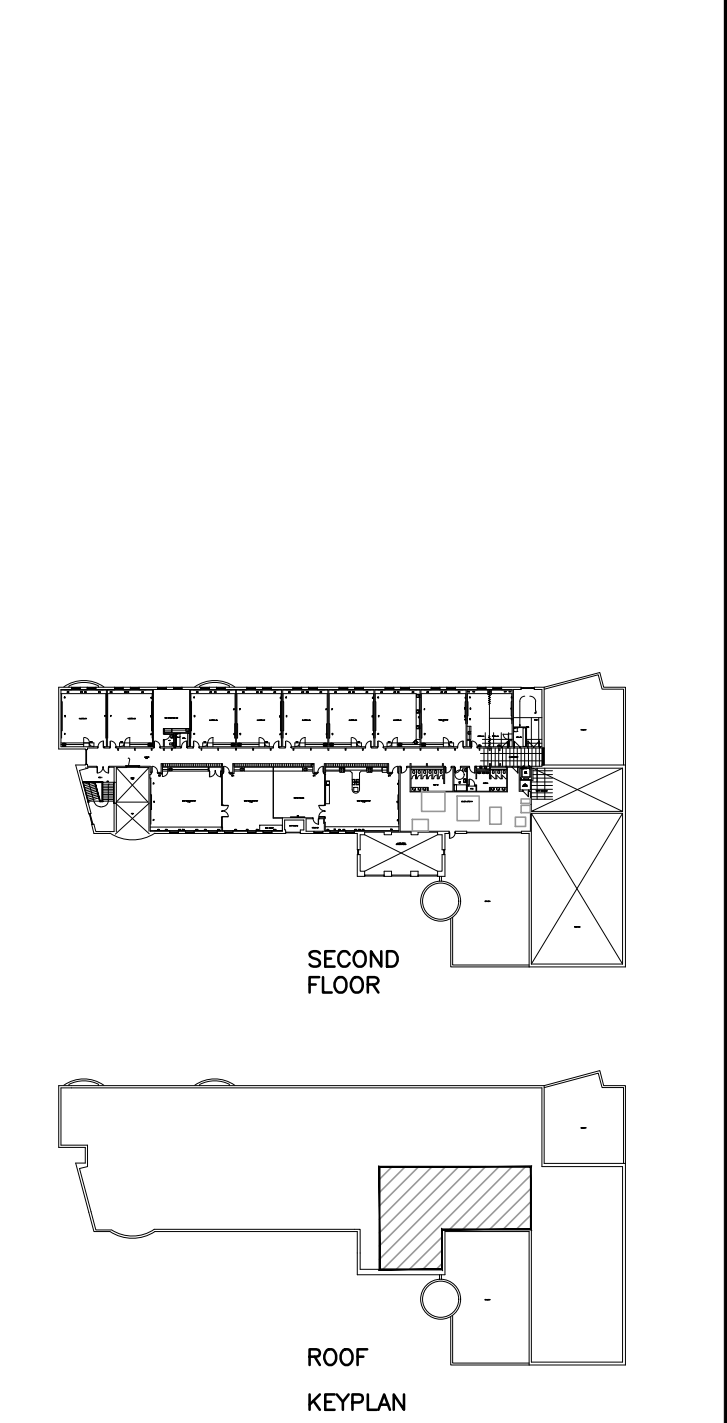


GENERAL ARCHITECTURAL NOTES

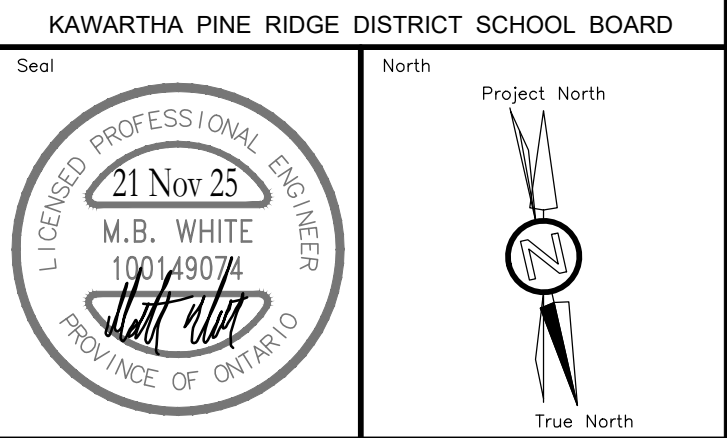
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- THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY CEILINGS REMOVED/DAMAGED DURING CONSTRUCTION THAT IS BEYOND THE MECHANICAL/ELECTRICAL SCOPE OF WORK.
- CEILINGS BEING REMOVED AND RE-INSTALLED ARE TO BE RE-INSTALLED AT SAME HEIGHT UNLESS OTHERWISE NOTED.
- MAINTAIN CONTINUITY OF ALL EXISTING HORIZONTAL AND VERTICAL FIRE SEPARATIONS WHERE NEW PENETRATIONS OCCUR WITHIN THE ENTIRE SCOPE OF WORK. PROVIDE PATCHING, FIRE STOPPING AND SMOKE SEAL AT ALL PENETRATIONS. MATCH EXISTING MATERIALS AND FINISHES. PRIOR TO THE APPLICATION OF NEW PAINT, ENSURE THAT ALL REMAINING METAL PIECES, SCREW HEADS, ETC. ARE REMOVED, HOLES PATCHED AND SANDED.
- PATCH PAINT ALL NEW PARTITIONS, CHASES AND AFFECTED EXISTING SURFACES TO MATCH ADJACENT SURFACES.
- PROVIDE NEW FLOOR, BASE, FINISHES AND NEW CEILING TILES/GRID WHERE DAMAGED DUE TO RENOVATION. MATCH EXISTING.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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No	DATE YY.MM.DD	DESCRIPTION	BY
1	25.03.03	ISSUED FOR TENDER REVIEW	MW
2	25.03.20	ISSUED FOR TENDER	MW
3	25.11.21	REISSUED FOR TENDER	MW



LYDIA TRULL PUBLIC SCHOOL
COURTICE ONTARIO



RENOVATION TO:
LYDIA TRULL PUBLIC SCHOOL MECHANICAL UPGRADES
80 Avondale Dr, Courtice, ON L1E 3C2

Sheet Title
GENERAL TRADES PLANS — DEMOLITION & RENOVATION

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

Drawn by KB	Checked by DB	Approved by MW
Scale AS NOTED	Project Date SEPT 2024	Print Date SEPT 2024
Project No. 24300	Drawing No. M202	

NOTE:
CONTRACTOR TO ALLOW FOR DRAINING AND
DISPOSING ENTIRE SCHOOL GLYCOL/HEATING
SYSTEM (OR PIPE FREEZING AS REQUIRED) TO
SUIT RENOVATION WORK

EXISTING BAS PANEL. EXISTING POINTS
SERVING AIR HANDLING UNITS, RETURN
FANS AND CONDENSING UNITS TO BE
REMOVED FROM EXISTING BAS SYSTEM.
EXISTING BAS SYSTEM TO REMAIN
FUNCTIONAL WITH ALL REDUNDANT POINTS
REMOVED UPON CONCLUSION OF WORK

NOTE:
OBTAIN THE SERVICES OF ANALYSTS OF
PNEUMATIC SYSTEMS LTD. FOR ALL PNEUMATIC
DEMOLITIONS.
CONTACT:
FREDPERRYAPS@NEXICOM.NET
PHONE:(647)-284-2800

EXISTING HUMIDIFIER AND ALL
ASSOCIATED COMPONENTS TO
BE REMOVED COMPLETE.

EXISTING FAN VFD TO
BE REMOVED COMPLETE.

EXISTING LOUVER TO BE
REMOVED COMPLETE

EXISTING GLS/R PIPING TO
BE REMOVED COMPLETE.

EXISTING DDC MOTORIZED
DAMPER TO BE REMOVED
BEYOND COMPLETE.

EXISTING 8850(L) x
1400(H) x 900 (D)
PLENUM TO BE REMOVED
COMPLETE

EXISTING PLENUM TO BE
REMOVED BEYOND
COMPLETE.

SECOND FLOOR MECHANICAL ROOM – DEMOLITION

SCALE: 1:50

GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK
- APPROXIMATE LOCATIONS/SIZES OF SANITARY PIPING ARE INDICATED. CONTRACTOR TO CAMERA DRAIN AND SCAN/XRAY FLOOR PRIOR TO ANY DEMOLITION

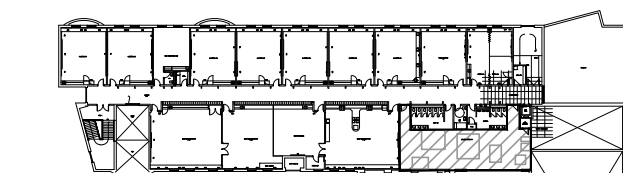
SPECIFIC DEMOLITION NOTES

- EXISTING UNIT AND ALL ASSOCIATED COMPONENTS TO BE REMOVED COMPLETE
- EXISTING DUCTWORK TO BE CUT AND REMOVED BEYOND COMPLETE
- EXISTING GLS&R PIPING TO BE CUT AND REMOVED BEYOND COMPLETE
- EXISTING DUCTWORK TO BE CUT ON RISER & REMOVED BEYOND COMPLETE
- EXISTING PNEUMATIC DAMPER TO BE REMOVED COMPLETE. REMOVE ALL EXPOSED REDUNDANT PNEUMATIC CONTROL TUBING AND CAP WHERE CONCEALED TO MAINTAIN SYSTEM FUNCTIONALITY.
- EXISTING OUTDOOR AIR DUCT TO BE REMOVED COMPLETE.
- EXISTING SPRINKLER PIPING TO BE TEMPORARILY REMOVED TO SUIT RENOVATION WORK.
- EXISTING HEAT RECOVERY UNIT AND ALL ASSOCIATED COMPONENTS TO BE TEMPORARILY REMOVED AND RETAINED TO SUIT RENOVATION WORK.
- EXISTING PNEUMATIC DAMPER ON RISER TO BE REMOVED COMPLETE. REMOVE ALL EXPOSED REDUNDANT PNEUMATIC CONTROL TUBING AND CAP WHERE CONCEALED TO MAINTAIN SYSTEM FUNCTIONALITY
- EXISTING 1100X800 EXHAUST DUCT SHALL BE CUT ON RISER AND REMOVED BEYOND COMPLETE.
- EXISTING RETURN DUCT TO BE REMOVED COMPLETE.
- EXISTING EXHAUST DUCT TO BE REMOVED COMPLETE.
- EXISTING REFRIGERANT PIPING UP THRU ROOF TO BE REMOVED COMPLETE.
- PLENUM SERVING HRU TO BE REMOVED COMPLETE.
- EXISTING PNEUMATIC HEATING VALVE TO BE REMOVED COMPLETE.
- EXISTING 850X400 RELIEF DUCT TO BE CUT ON RISER AND REMOVED BEYOND COMPLETE.
- EXISTING GLS&R PIPING TO BE CUT, CAPPED AT MAIN AND REMOVED BEYOND COMPLETE.

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SECOND FLOOR



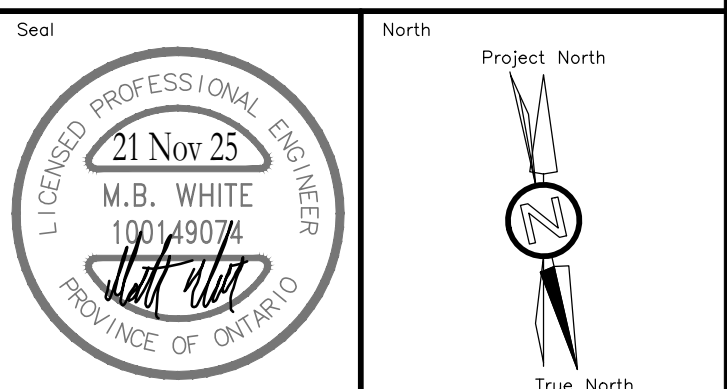
ROOF

KEYPLAN

LYDIA TRULL PUBLIC SCHOOL
COURTICE ONTARIO



KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD



RENOVATION TO:
**LYDIA TRULL PUBLIC
SCHOOL MECHANICAL
UPGRADES**

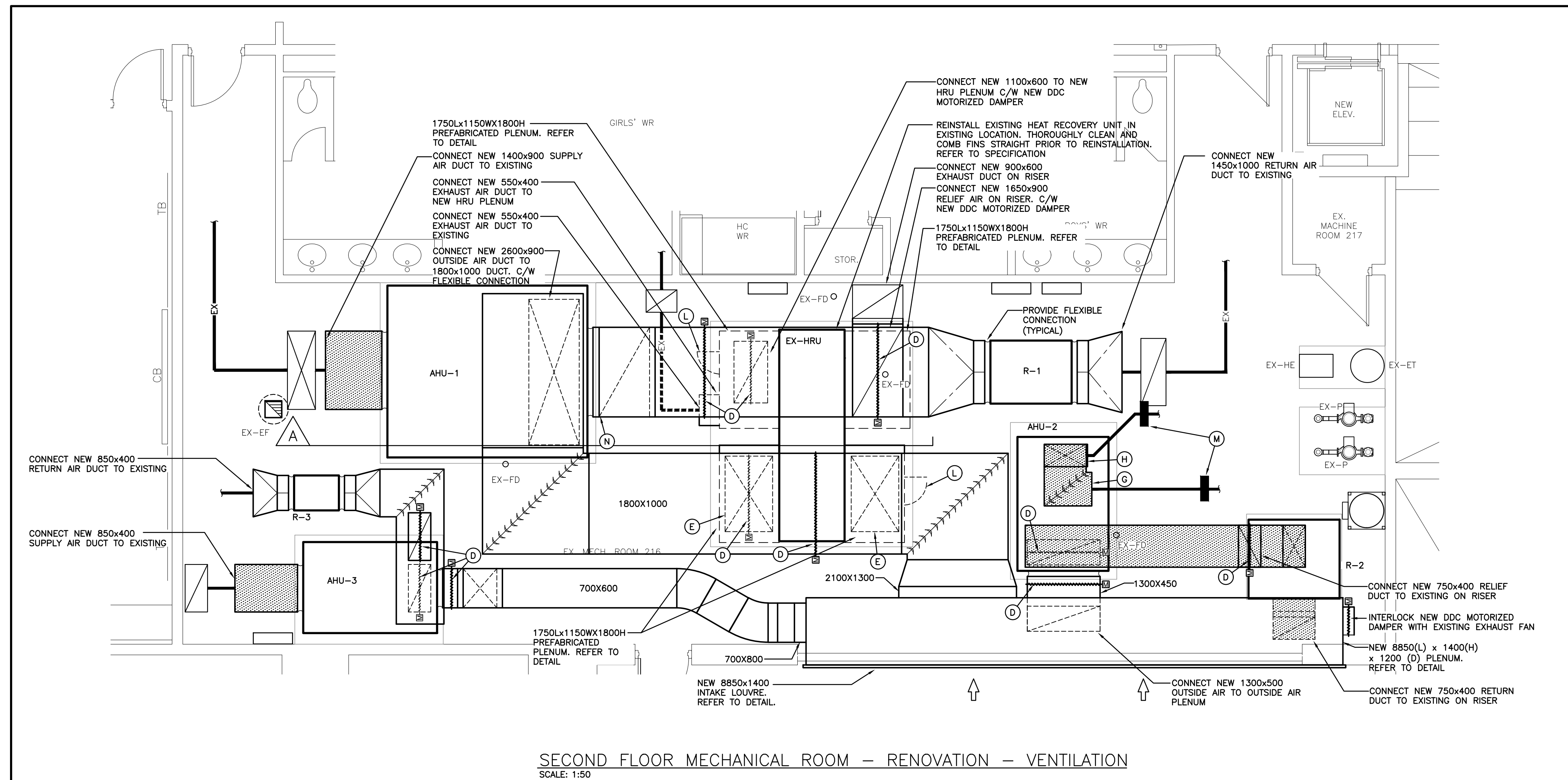
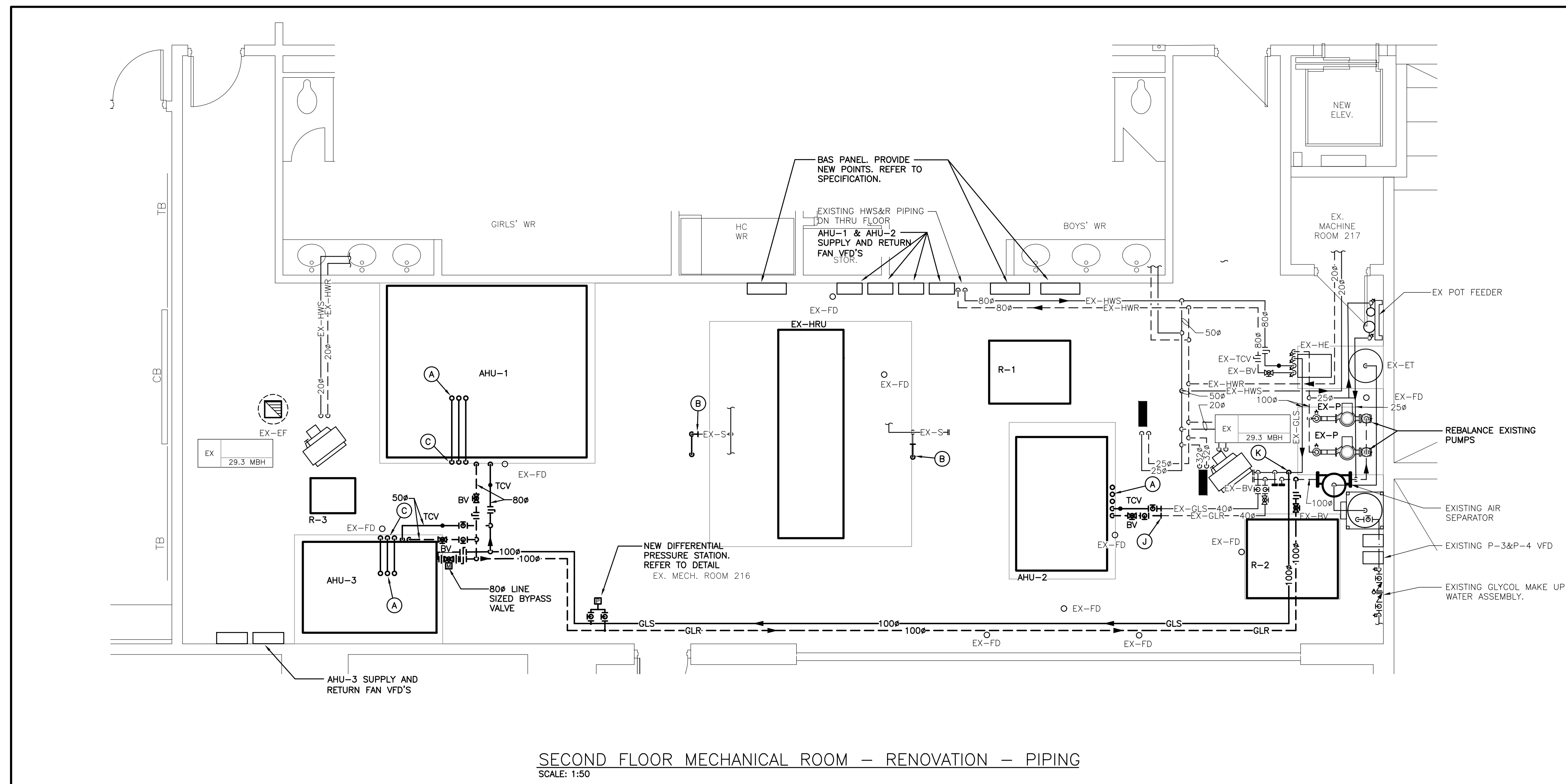
80 Avondale Dr, Courtice, ON L1E 3C2

Sheet Title
**SECOND FLOOR MECHANICAL
ROOM PLAN – DEMOLITION**

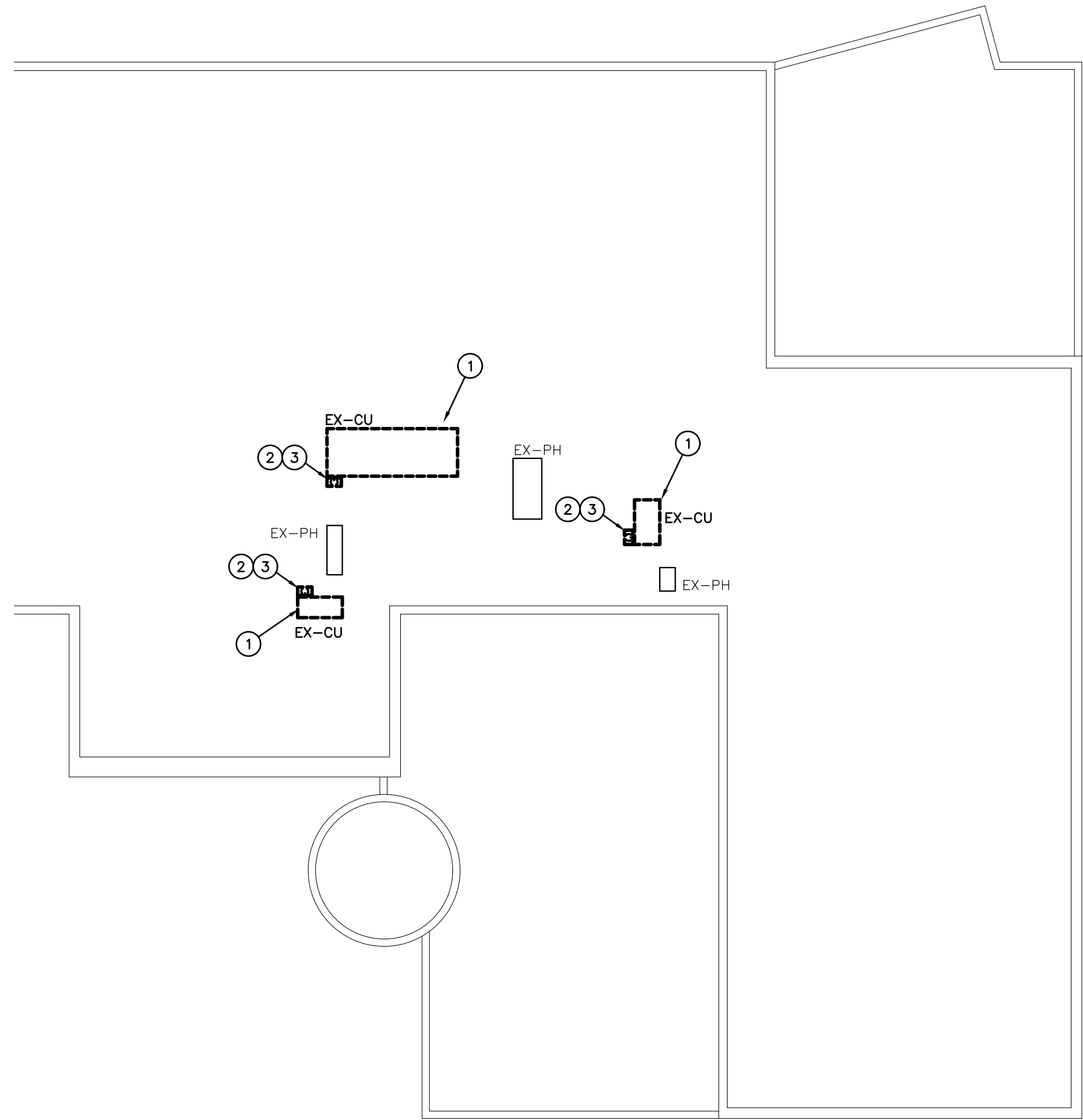
DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

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Scale AS NOTED	Project Date SEPT 2024	Print Date SEPT 2024

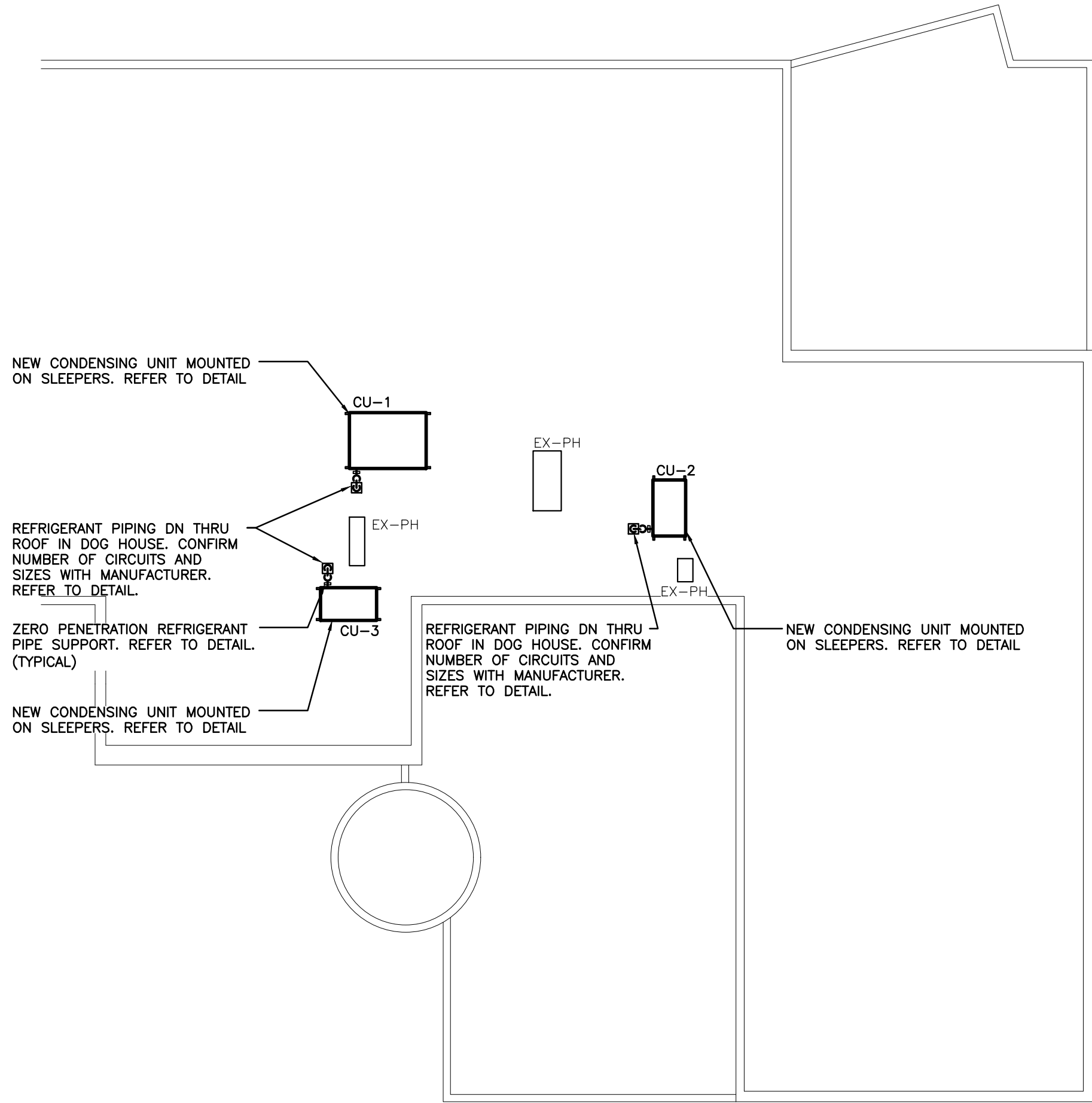
Project No. 24300	Drawing No. M301
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Drawn by KB	Checked by DB	Approved by MW
Scale AS NOTED	Project Date SEPT 2024	Print Date SEPT 2024
Project No. 24300	Drawing No. M302	



ROOF — DEMOLITION
SCALE: 1:200



ROOF — RENOVATION
SCALE: 1:200

GENERAL DEMOLITION NOTES

- MAINTAIN MINIMUM 3700mm (12'-0") LATERAL DISTANCE BETWEEN SANITARY VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- MAINTAIN MINIMUM 3000mm (10'-0") LATERAL DISTANCE BETWEEN PRV, FUEL FIRED APPLIANCE, AND/OR EXHAUST VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0M FROM EDGE OF ROOF.

SPECIFIC DEMOLITION NOTES

1. EXISTING CONDENSING UNIT AND ALL ASSOCIATED COMPONENTS TO BE REMOVED COMPLETE
2. EXISTING DOGHOUSE AND ALL ASSOCIATED COMPONENTS TO BE REMOVED COMPLETE. PROVIDE NEW DOGHOUSE AS PER DETAIL.
3. EXISTING REFRIGERANT PIPING TO BE REMOVED COMPLETE

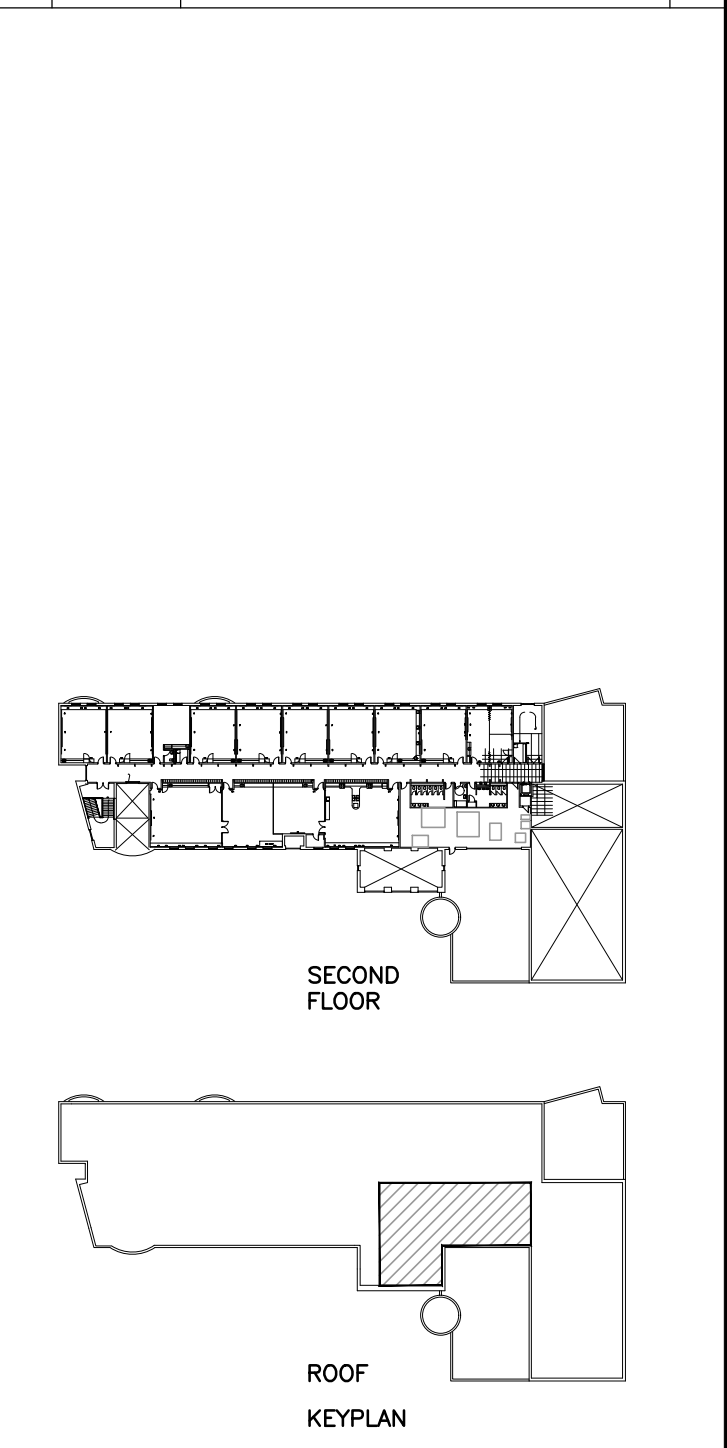
GENERAL RENOVATION NOTES

- MAINTAIN MINIMUM 3700mm (12'-0") LATERAL DISTANCE BETWEEN SANITARY VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- MAINTAIN MINIMUM 3000mm (10'-0") LATERAL DISTANCE BETWEEN PRV, FUEL FIRED APPLIANCE, AND/OR EXHAUST VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0M FROM EDGE OF ROOF.
- MAINTAIN MINIMUM 7500mm (25'-0") FROM COOLING TOWER EXHAUST TO ANY INTAKE/MECHANICAL OPENING

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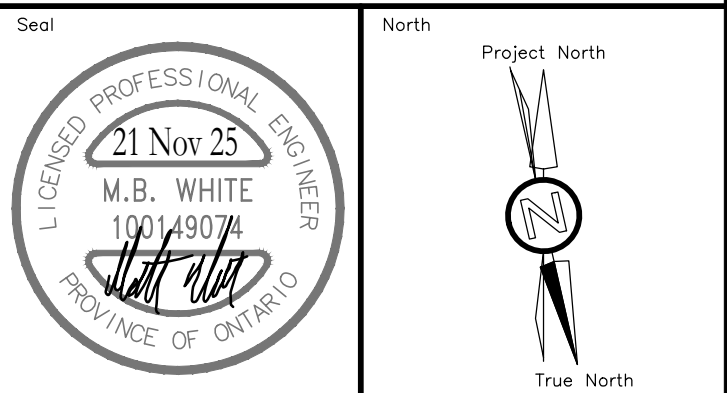
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1	25.03.03	ISSUED FOR TENDER REVIEW	MW
2	25.03.20	ISSUED FOR TENDER	MW
3	25.11.21	REISSUED FOR TENDER	MW



LYDIA TRULL PUBLIC SCHOOL
COURTICE ONTARIO



KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD



RENOVATION TO:
LYDIA TRULL PUBLIC SCHOOL MECHANICAL UPGRADES

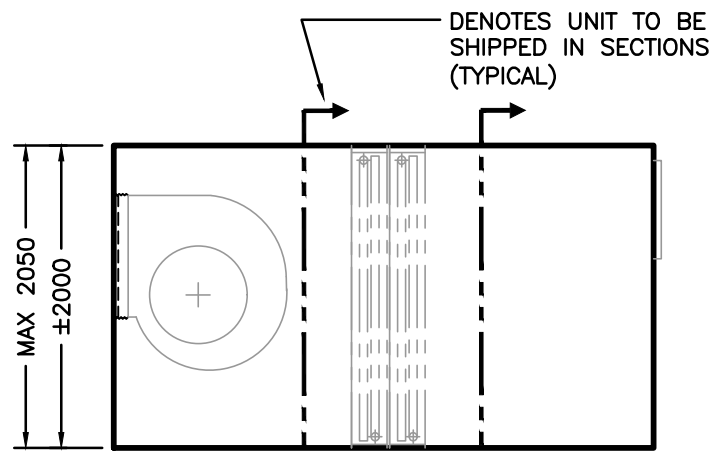
80 Avondale Dr, Courtice, ON L1E 3C2

Sheet Title
ROOF PLAN — DEMOLITION & RENOVATION

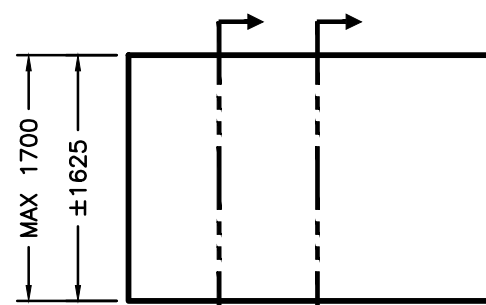
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55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

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Scale AS NOTED	Project Date SEPT 2024	Print Date SEPT 2024

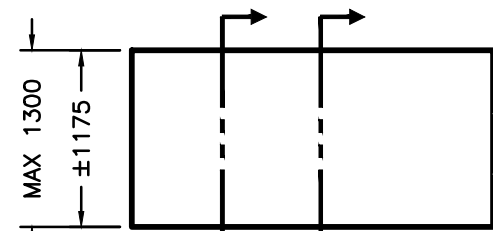
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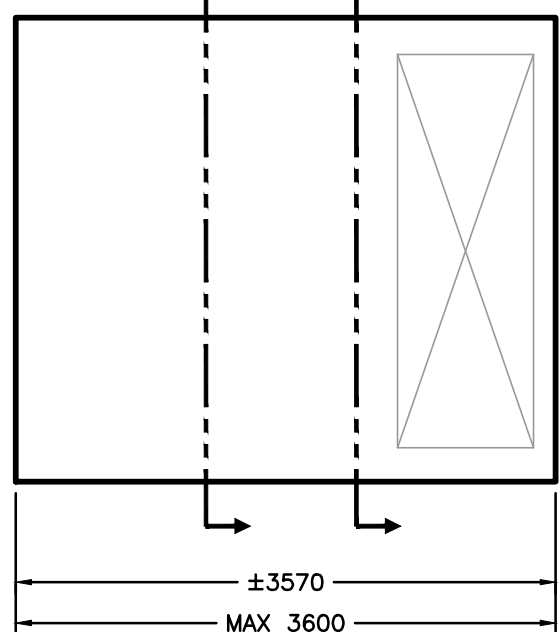
AHU-1 ELEVATION



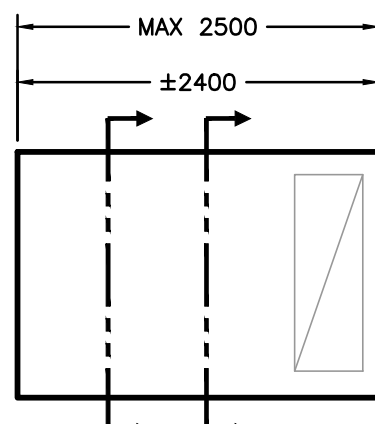
AHU-2 ELEVATION



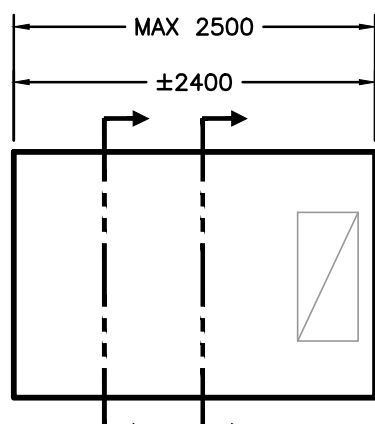
AHU-3 ELEVATION



AHU-1 PLAN



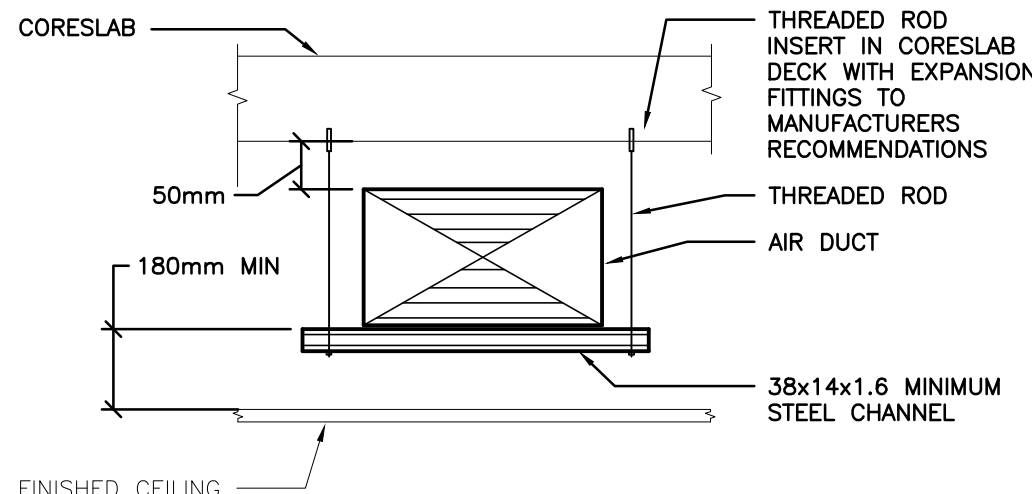
AHU-2 PLAN



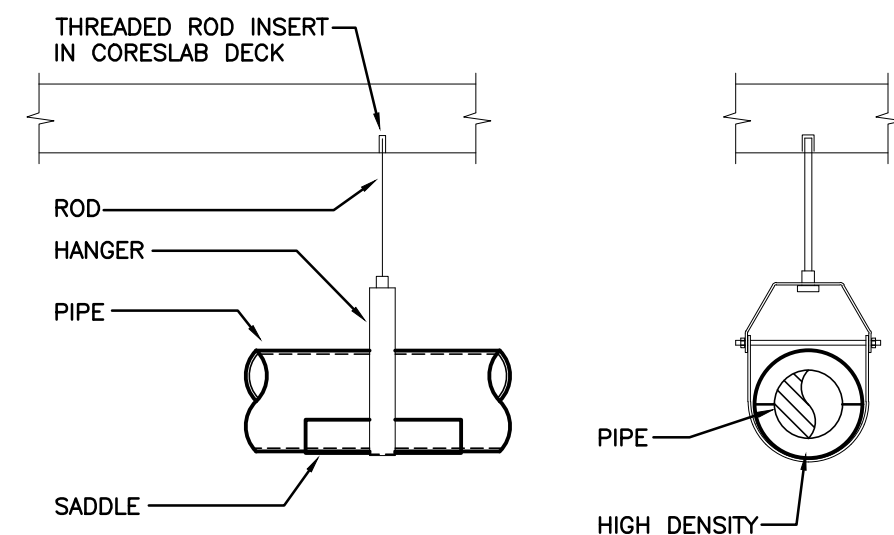
AHU-3 PLAN

GENERAL AHU NOTES

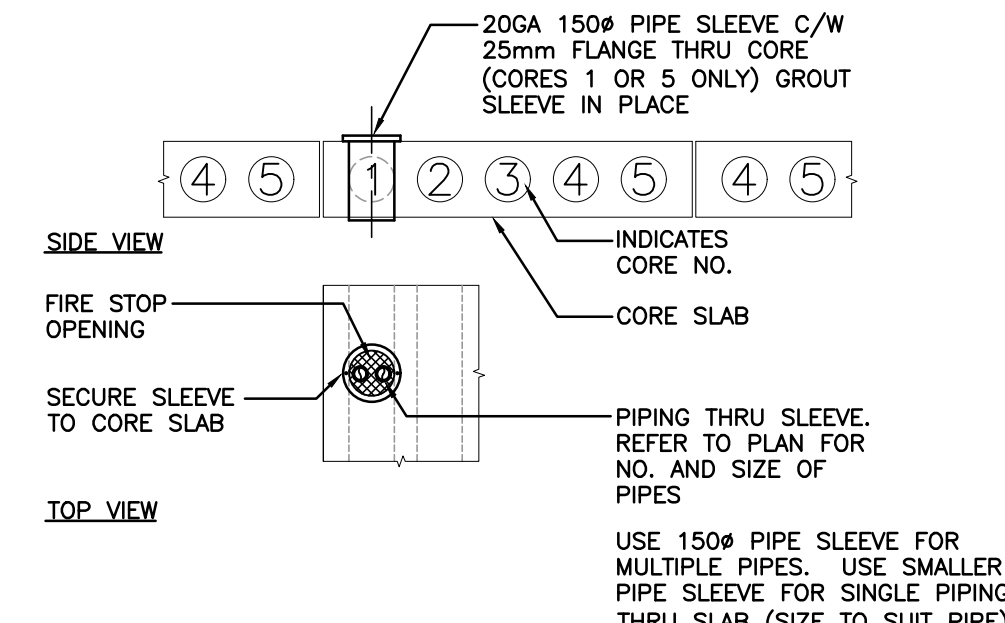
- NOTED 'MAX' DIMENSIONS ARE THE APPROXIMATE LARGEST DIMENSION PERMITTED TO ALLOW FOR SUITABLE CLEARANCE/SERVICE SPACE AROUND THE UNIT. IF AN 'ALTERNATE' UNIT IS SELECTED IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THAT THE UNIT FITS IN THE ALLOCATED SPACE & WORKS WITH THE DESIGN AS SHOWN, THE PROPOSED LAYOUT ABIDES BY THE SPECIFIC SERVICE/REQUIRED CLEARANCES OF THAT ALTERNATE UNIT AND THAT THE ALTERNATE UNIT DOES NOT EXCEED THE NOTED 'MAX' DIMENSION.
- DAMPERS ARE SUPPLIED & INSTALLED BY THE AHU MANUFACTURER. DAMPER OPERATORS ARE SUPPLIED & INSTALLED BY THE BAS CONTRACTOR.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE AIR HANDLING UNIT MANUFACTURER TO DETERMINE WHICH UNITS SHALL BE DELIVERED IN SECTIONS AND ASSEMBLED ON SITE IN PLACE. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL THE UNIT IN PLACE TO THE STANDARDS OF THE MANUFACTURER.



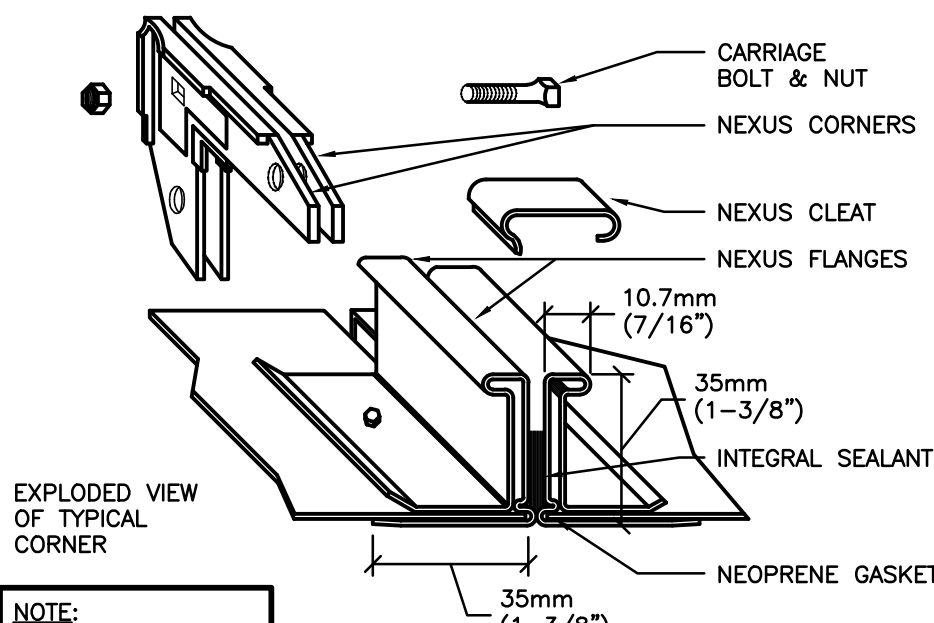
DUCT SUPPORT IN CEILING FROM CORESLAB



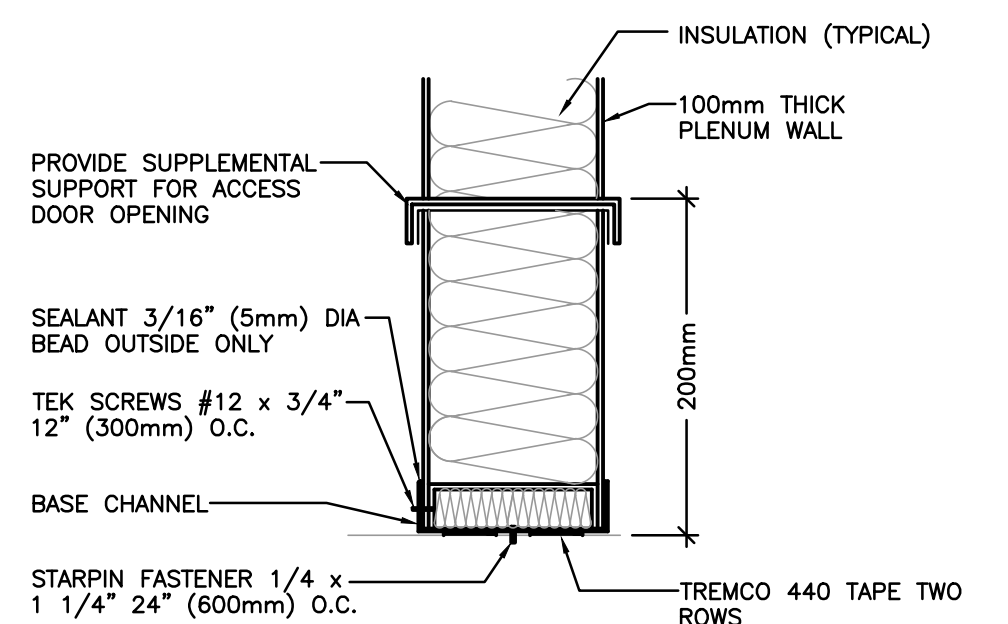
PIPE HANGER (CORESLAB)



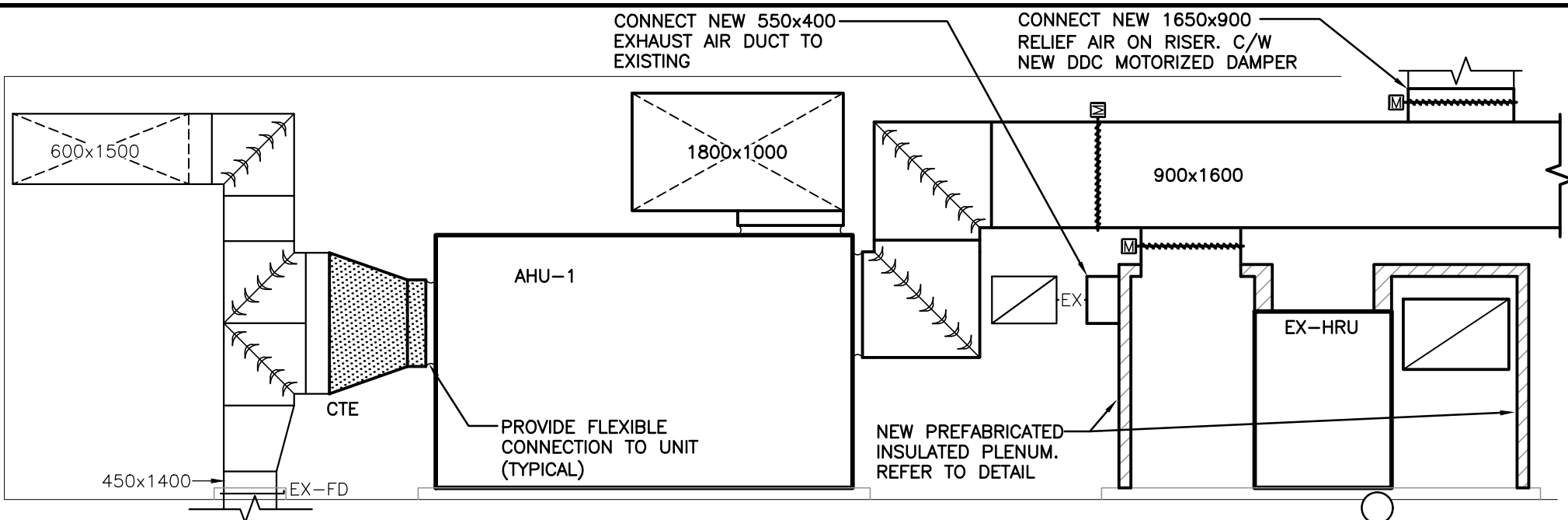
CORESLAB SLEEVE DETAIL



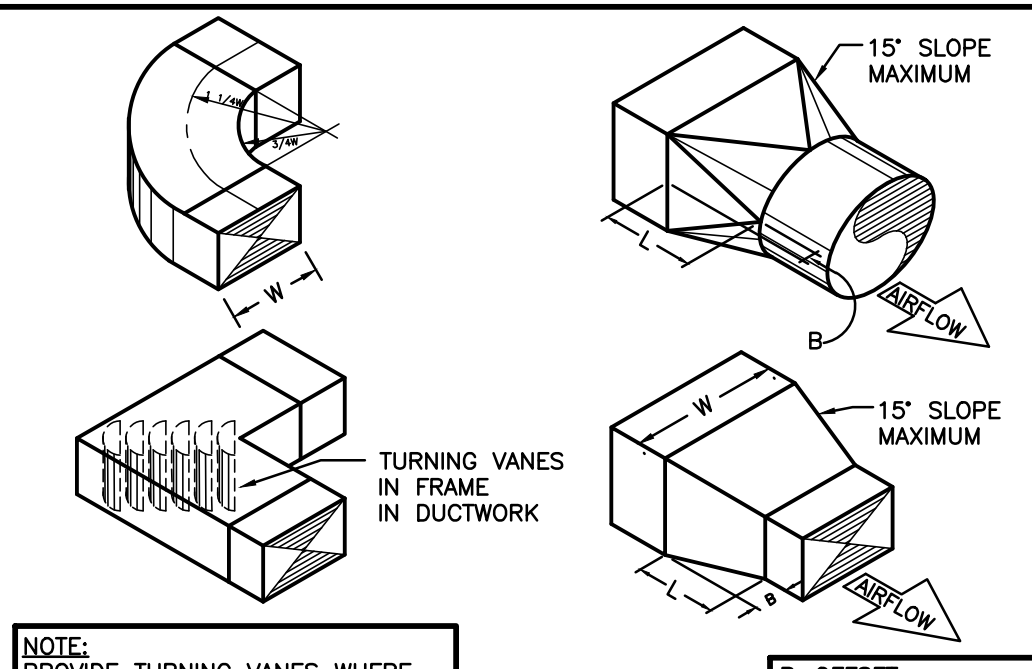
DUCT CONSTRUCTION



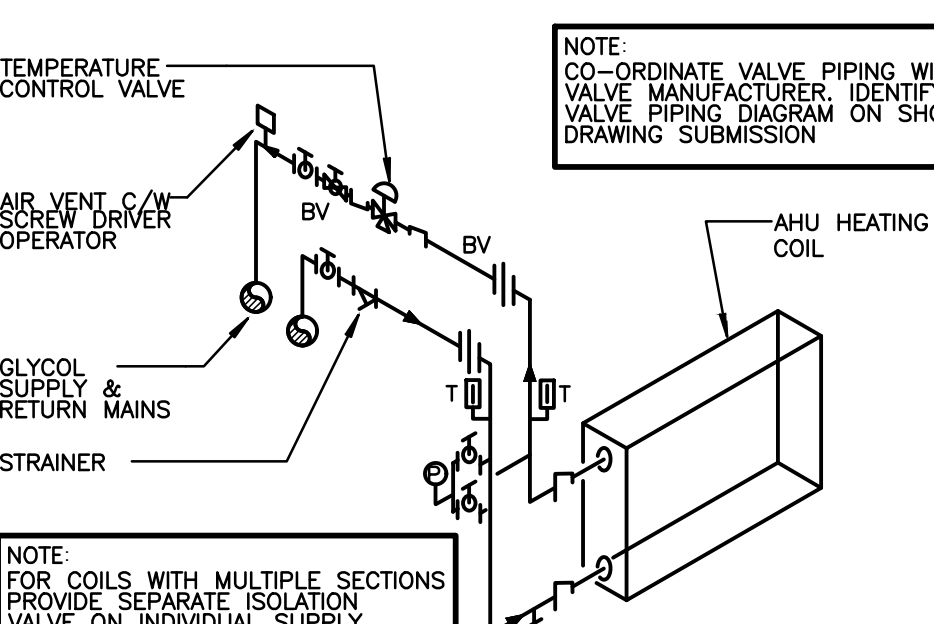
PREMANUFACTURED PLENUM DUCT CONNECTION TO FLOOR/WALL



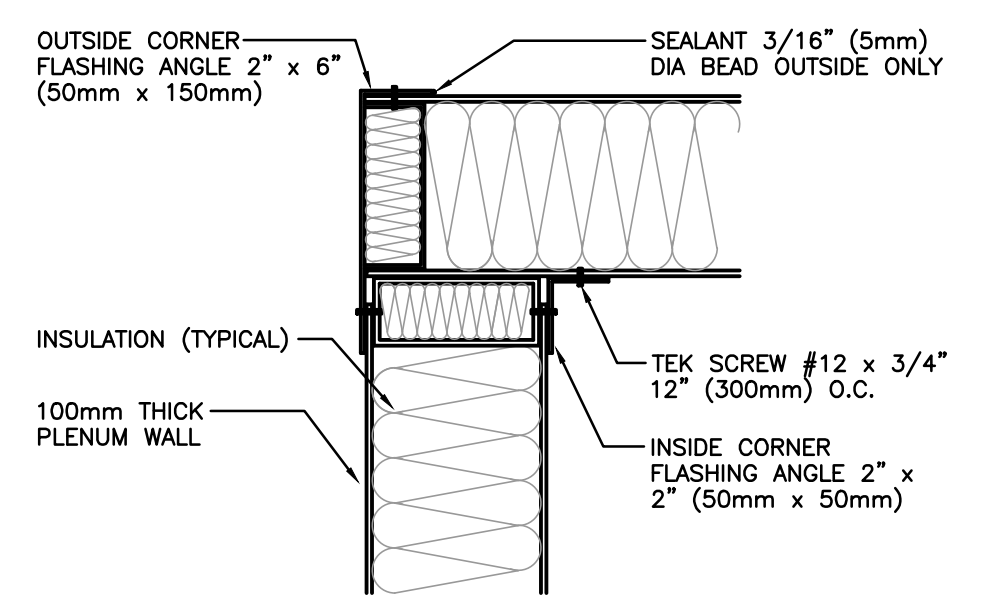
SECOND FLOOR MECHANICAL ROOM - SECTION A
SCALE: 1:50



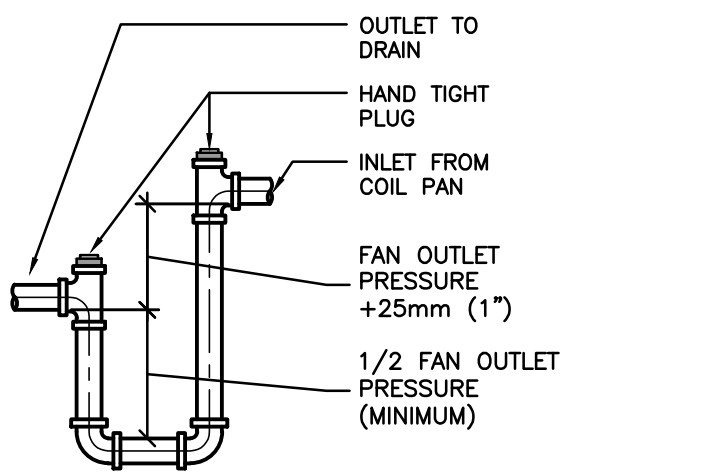
DUCT ELBOWS AND TRANSITIONS



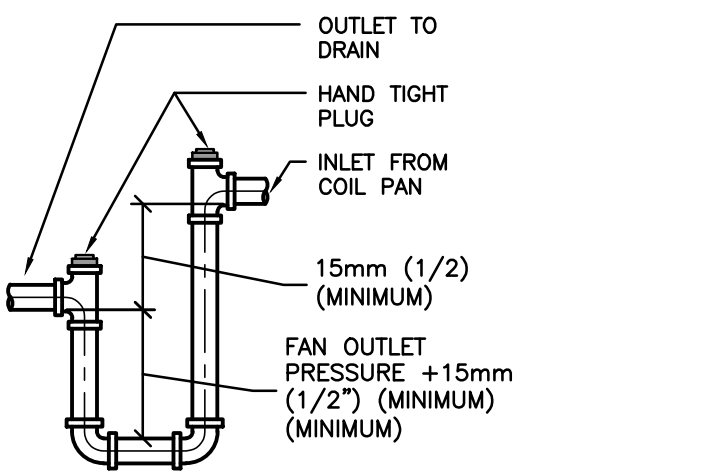
AIR HANDLING UNIT HEATING COIL PIPING



PREMANUFACTURED PLENUM DUCT CORNER CONNECTION

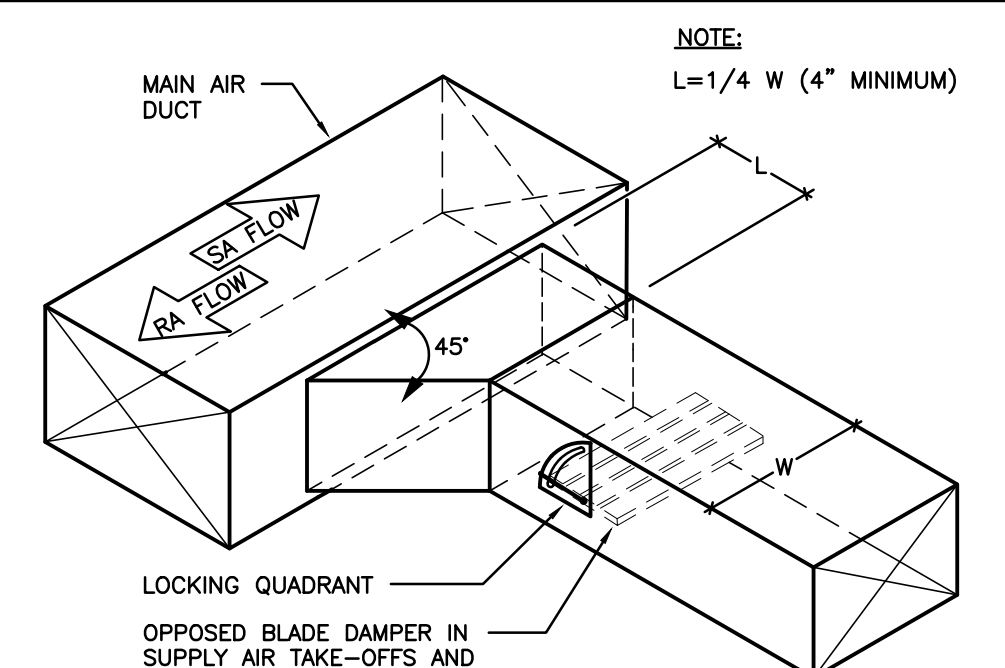


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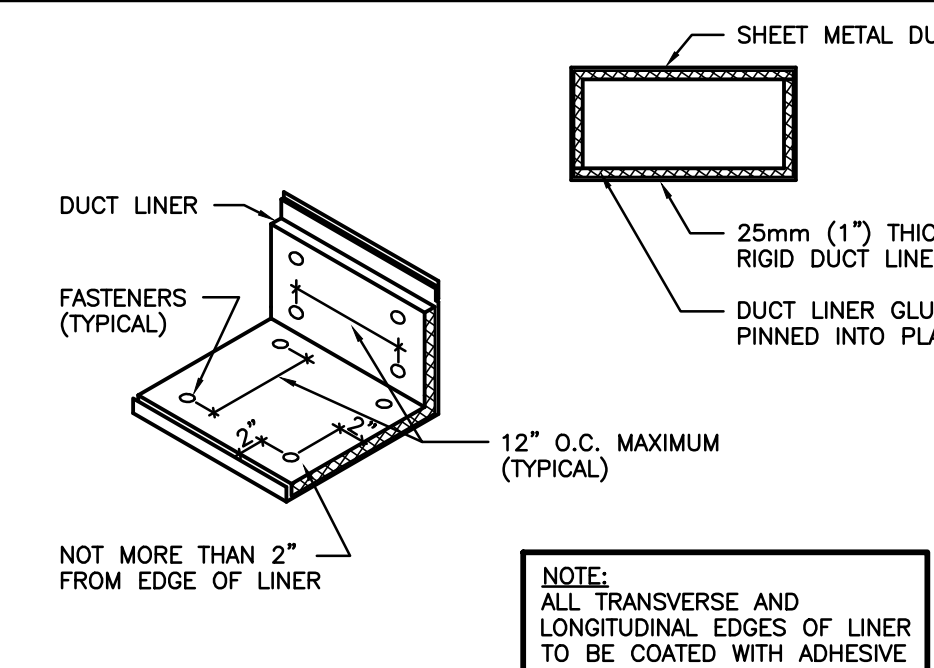


BLOW THRU TRAP

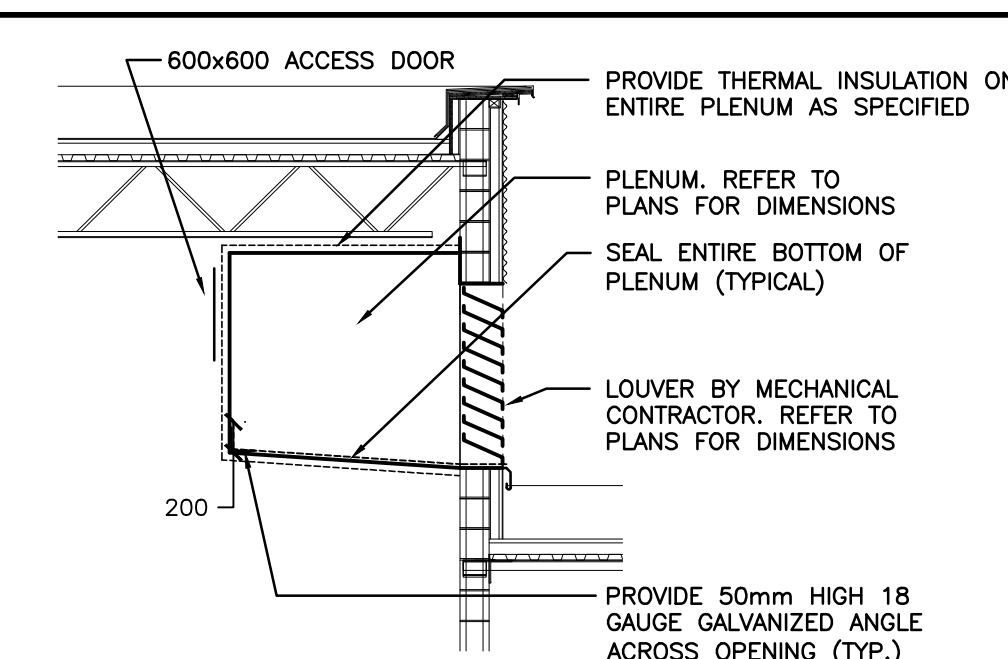
HVAC-UNIT CONDENSATE DRAIN TRAP



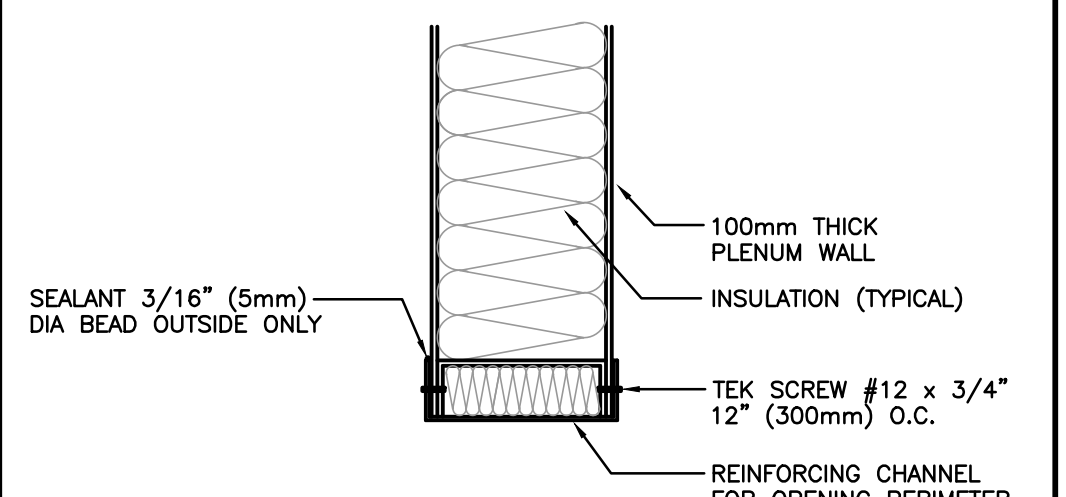
SQUARE DUCT BRANCH TAKEOFF



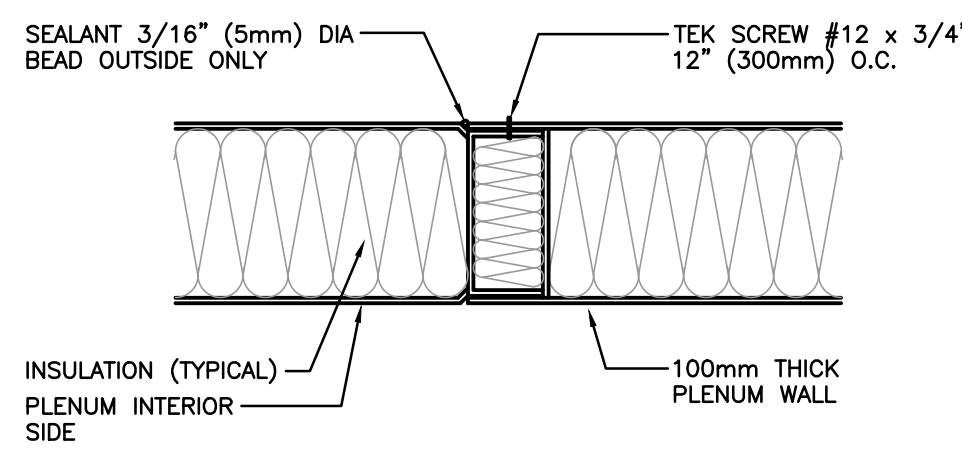
ACOUSTIC LINING



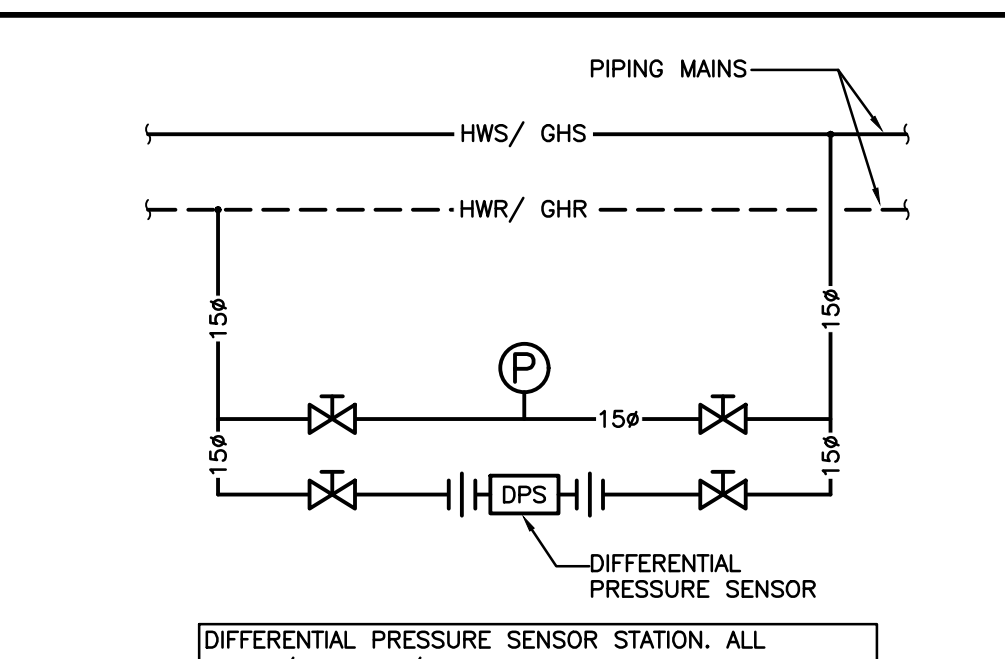
SLOPED PLENUM



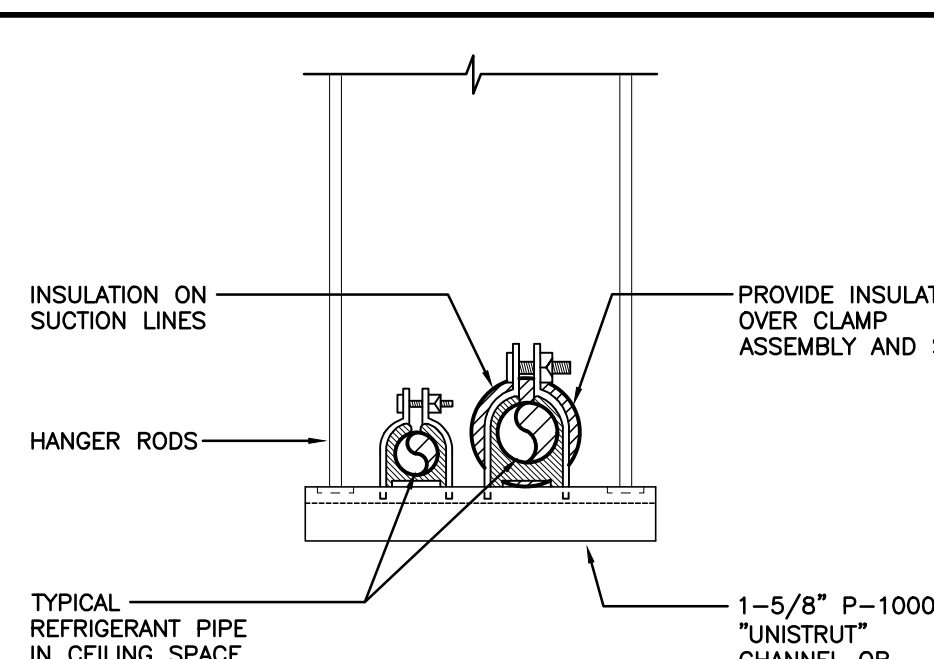
PREMANUFACTURED PLENUM
DUCT CONNECTION TO REINFORCING CHANNEL



PREMANUFACTURED PLENUM DUCT STRAIGHT CONNECTION



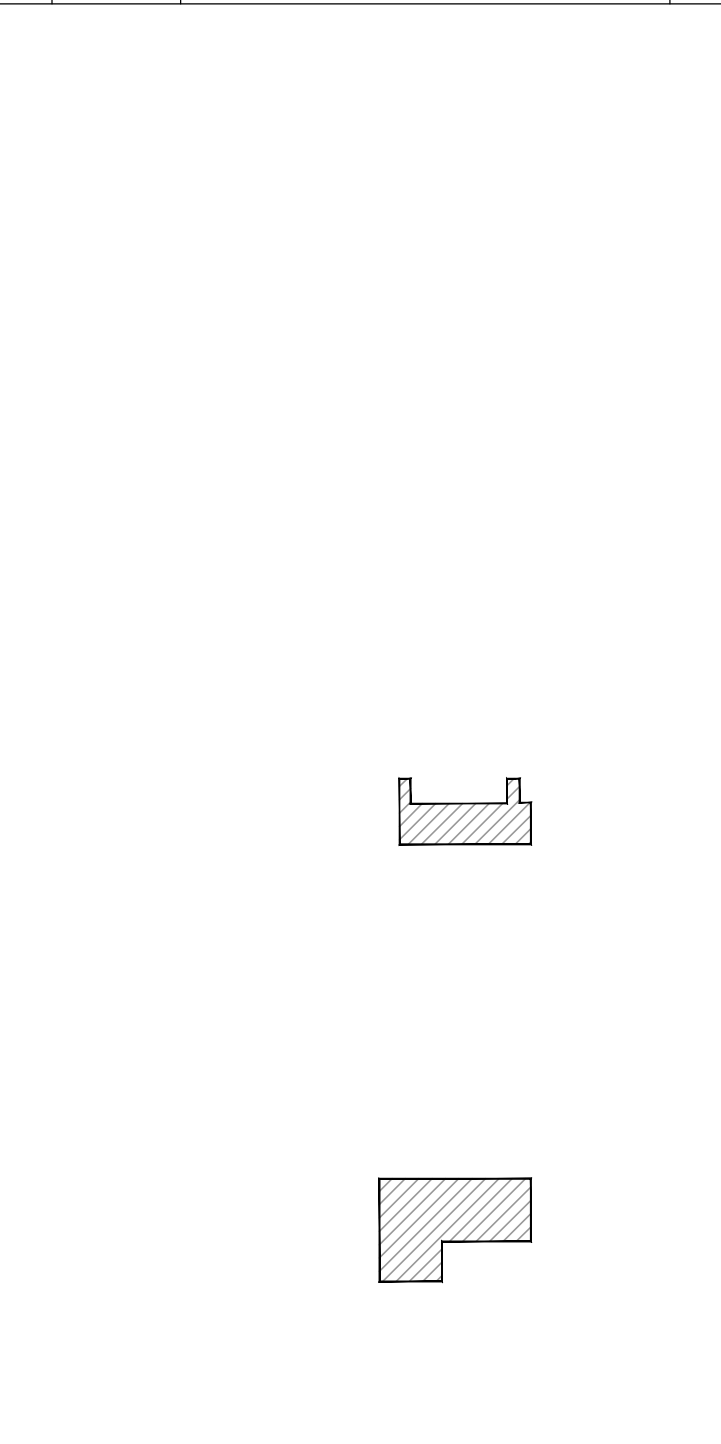
DIFFERENTIAL PRESSURE SENSOR STATION DETAIL



REFRIGERANT PIPE SUPPORT

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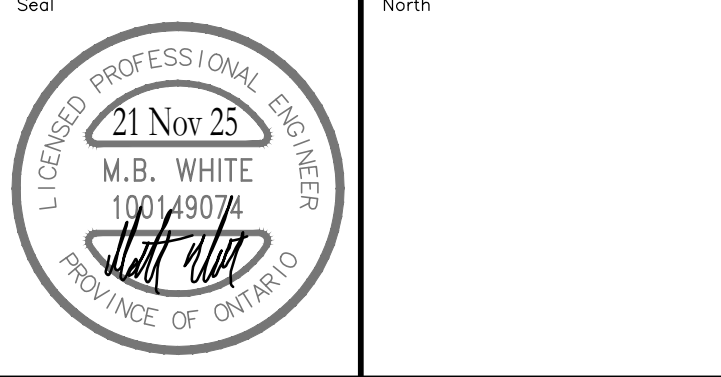
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No	DATE YY-MM-DD	DESCRIPTION	BY
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2	25.03.20	ISSUED FOR TENDER	MW
3	25.11.21	REISSUED FOR TENDER	MW



LYDIA TRULL PUBLIC SCHOOL
COURTYARD



KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD



RENOVATION TO:
LYDIA TRULL PUBLIC
SCHOOL MECHANICAL
UPGRADES

80 Avondale Dr, Courthouse, ON L1E 3C2

Sheet Title

SCHEMATICS & DETAILS

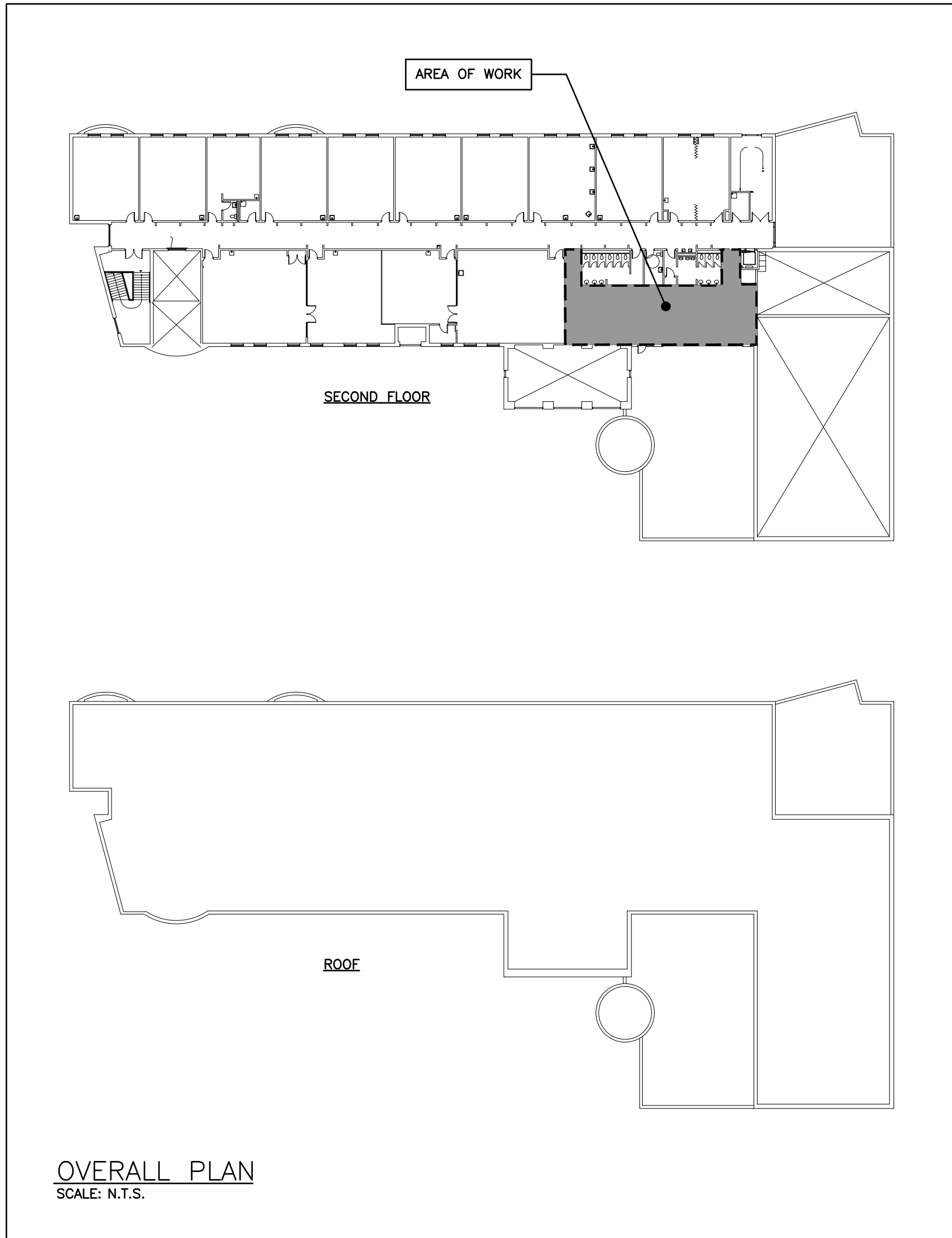
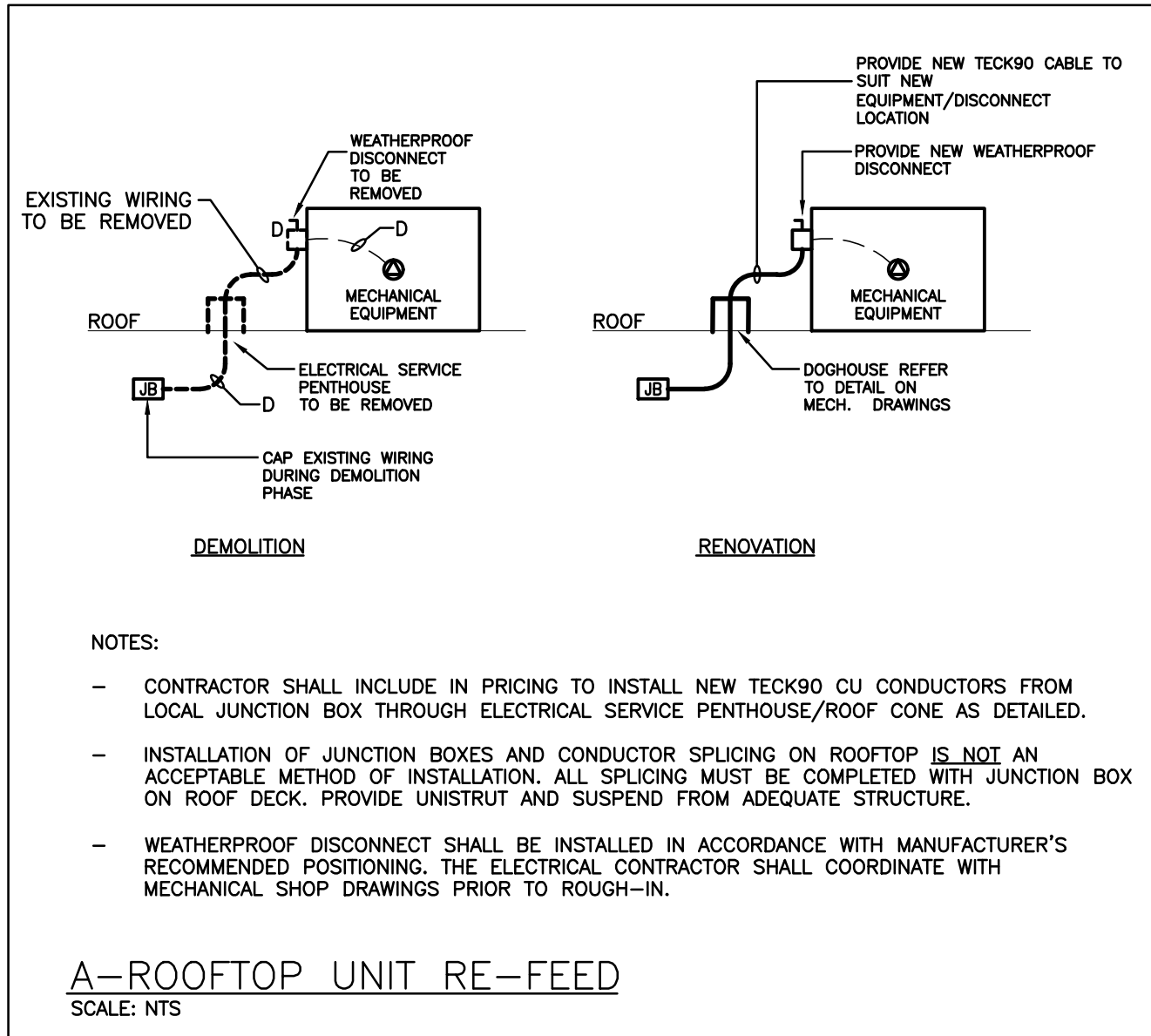
























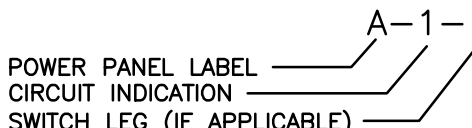

Drawn by KB	Checked by DB	Approved by MW
Scale AS NOTED	Project Date SEPT 2024	Print Date SEPT 2024
Project No.	Drawing No.	

24300 M401

EQUIPMENT WIRING SCHEDULE																																	E = ELECTRICAL M = MECHANICAL O = OTHERS						
Description			Electrical	Data	Starter					Ctrl Device			Isolating Device			Remote Items										Other	Interlock		Remarks										
Mechanical Item	Description	Provided By	Voltage	Size hp/kW/Amps	Phase	MCCP	Magnetic	Manual	Combination	Contactors	VFD	ECM (No Separate Starter Device)	Hand/Off/Auto	On/Off Selector	High/Low/Off	Pilot Light	Disconnect	WP Disconnect	Breaker/Fuse	Starter/Device Wired by	Thermostat	RA Thermostat	Programmable Time Clock	Variable Speed Control	Current Sensor	Occ Sensor	Dual Voltage Relay	Interval Timer		VRF System Control Panel	Smoke Control System Panel	Control Panel	Wired by	Bldg Auto System	Wired By	Miscellaneous 1	Miscellaneous 2	Interlock to	Interlock by
AHU-1	UPPER & LOWER CLASSROOMS AIR HANDLING UNIT	M	575	25 HP	3						M							E	E	E												M	M			CU-1 & RF-01	M	REFER TO NOTES:	
AHU-2	GYMNASIUM & STAGE AIR HANDLING UNIT	M	575	7.5 HP	3						M							E	E	E												M	M			CU-2 & RF-02	M		
AHU-3	LIBRARY & ADMINISTRATION AIR HANDLING UNIT	M	575	7.5 HP	3						M							E	E	E												M	M			CU-3 & RF-03	M		
CU-1	OUTDOOR CONDENSER	M	575	162.7 A	3	175												E	E	E												M	M			AHU-1	M		
CU-2	OUTDOOR CONDENSER	M	575	34.3 A	3	45												E	E	E												M	M			AHU-2	M		
CU-3	OUTDOOR CONDENSER	M	575	25.1 A	3	30												E	E	E												M	M			AHU-3	M		
RF-01	RETURN FAN	M	575	15 HP	3						M							E	E	E												M	M			AHU-1	M		
RF-02	RETURN FAN	M	575	3 HP	3						M							E	E	E												M	M			AHU-2	M		
RF-03	RETURN FAN	M	575	3 HP	3						M							E	E	E												M	M			AHU-3	M		
BAS	BAS PANEL	M	120	FHP	1																											M	M						
Notes:																																							
1 PROVIDE MAIN FEED TO UNIT. PROVIDE ADDITIONAL FEED FROM TERMINAL STRIPS WITHIN UNIT TO VARIABLE FREQUENCY DRIVE AND BACK TO UNIT (IN SEPARATE CONDUITS). COORDINATE CONDUCTOR SIZE TO AND FROM VARIABLE FREQUENCY DRIVE WITH MECHANICAL SHOP DRAWINGS.																																							

PROPOSED M.C.C.-'A' SCHEDULE							KLOCKNER MOELLER No. CDN-17-97-6937-A 600A 600V 3P 42kA 24V CONTROL VOLTAGE		* - INDICATES PROVIDE TIME DELAY FUSE		
NUMBER	DESCRIPTION	POWER REQUIREMENTS	DISCONNECT	FUSE	FEEDER SIZE	ITEM	MODIFICATIONS REQUIRED				
1	SUPPLY FAN AHU-1	25HP, 600V, 3P	60A	45A*	PROVIDE NEW 3#8 CU IN 21mmC	AHU-1					
2	RETURN FAN F-1	10HP, 600V, 3P	30A	25A*	PROVIDE NEW 3#12 CU IN 21mmC	RF-01					
3	CONDENSING UNIT CU-1	150A, 600V, 3P	200A	175A	PROVIDE NEW 3#2/0 CU IN 53mmC	CU-1					
4	SUPPLY FAN AHU-2	7.5HP, 600V, 3P	30A	15A*	PROVIDE NEW 3#12 CU IN 21mmC	AHU-2	REMOVE INTERNAL STARTER COMPONENTS. EXISTING BUCKET IS TO BE MODIFIED TO FUSIBLE DISCONNECT STYLE TO SUIT VFD.				
5	RETURN FAN F-2	1.5HP, 600V, 3P	30A	15A*	PROVIDE NEW 3#12 CU IN 21mmC	RF-02	REMOVE INTERNAL STARTER COMPONENTS. EXISTING BUCKET IS TO BE MODIFIED TO FUSIBLE DISCONNECT STYLE TO SUIT VFD.				
6	CONDENSING UNIT CU-2	40A, 600V, 3P	60A	45A	PROVIDE NEW 3#8 CU IN 21mmC	CU-2					
7	SUPPLY FAN AHU-3	7.5HP, 600V, 3P	30A	15A*	PROVIDE NEW 3#12 CU IN 21mmC	AHU-3					
8	RETURN FAN F-3	2HP, 600V, 3P	30A	15A*	PROVIDE NEW 3#12 CU IN 21mmC	RF-03					
9	CONDENSING UNIT CU-3	25A, 600V, 3P	30A	30A	PROVIDE NEW 3#10 CU IN 21mmC	CU-3					
10	EXHAUST FAN EF-02	1.5HP, 600V, 3P			EXISTING TO REMAIN						
11	GLYCOL HEATING P01	3.0HP, 600V, 3P			EXISTING TO REMAIN						
12	GLYCOL HEATING P02	3.0HP, 600V, 3P			EXISTING TO REMAIN						
13	AIR COMPRESSOR	1.5HP, 600V, 3P			EXISTING TO REMAIN						
14	HUMIDIFIER	7.6kW, 600V, 3P			EXISTING TO REMAIN						
15	LIGHTING PANEL	100A, 600V, 3P			EXISTING TO REMAIN						
16	DUST COLLECTOR	10HP, 600V, 3P			EXISTING TO REMAIN						
GENERAL NOTES:											
1) CONTRACTOR SHALL REPLACE ALL FUSES (FOR EQUIPMENT BEING REPLACED TO ENSURE ALL 3 FUSES MATCH) WITH NEW AND SUPPLY 3 SPARE FUSES FOR EACH MECHANICAL EQUIPMENT BEING RE-FED FROM M.C.C.											
2) PROVIDE NEW CONDUIT AND WIRING FROM M.C.C. TO SUIT NEW EQUIPMENT LOCATIONS. REMOVE ALL EXISTING FEEDS. CONDUIT MAY BE RETAINED AND REWORKED WHERE APPLICABLE, REDUNDANT CONDUIT MUST BE REMOVED BACK TO SOURCE PANEL.											
3) PROVIDE NEW HARD LABEL LAMICOID TAGS FOR ALL NEW MECHANICAL EQUIPMENT.											



ELECTRICAL SYMBOLS		NOTE: ALL SYMBOLS MAY NOT BE USED	
FIRE ALARM		POWER	
	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)		WALL MOUNTED RECEPTACLE (15A-120V)
	COMBINATION HORN/STROBE		WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)
	DUCT TYPE SMOKE DETECTOR		T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)
	SMOKE DETECTOR (RL=RELAY BASE)		RECEPTACLE MTD. ABOVE COUNTER S=SPLIT (15A-120V)
			DIRECT CONNECTION
COMMUNICATIONS			JUNCTION BOX
	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED		PANEL AS INDICATED
GENERAL			FUSED DISCONNECT
ER	INDICATED EXISTING ITEM TO REMAIN		UNFUSED DISCONNECT
D	INDICATES EXISTING ITEM TO BE DELETED		VARIABLE FREQUENCY DRIVE
R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION		MANUAL STARTER
WG	WIREGUARD		MAGNETIC STARTER
GF	GROUND FAULT		COMBINATION MAGNETIC STARTER
WP	WEATHERPROOF		TRANSFORMER
	NOTE INDICATOR		UNISTRUT UPSTAND
	MECHANICAL ITEM NO.	STANDARD CIRCUIT LABELING	
LIGHTING			
	LIGHT FIXTURE TYPE AS INDICATED		

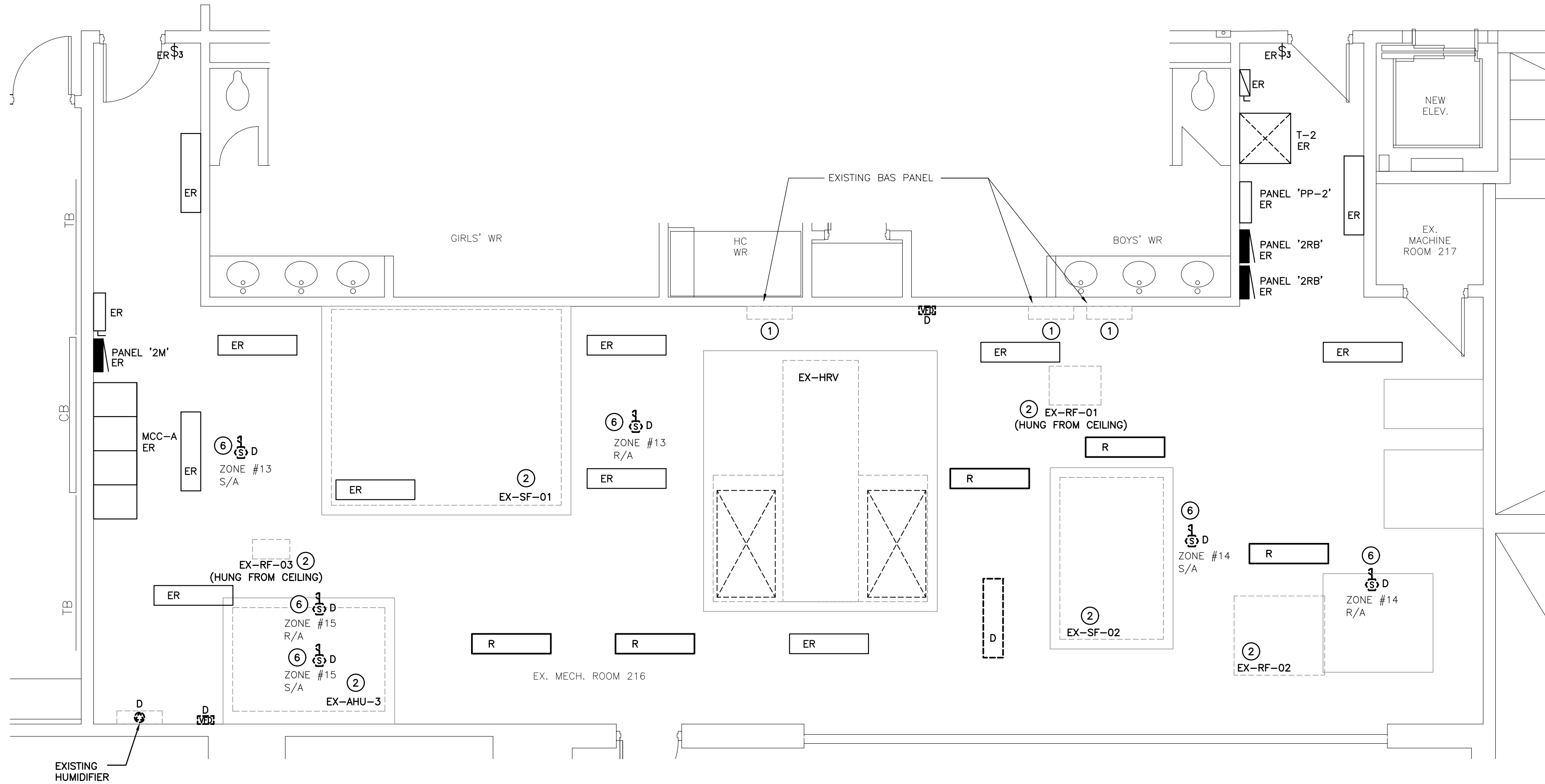
EXISTING PANEL 'LP-2M' SCHEDULE									
VOLTAGE: 120/208 VOLTS PHASE: 3P, 4W MAINS: 100A NEUTRAL BUS: MOUNTING: SURFACE NOTES: EXISTING FEDERAL PIONEER TYPE NBLP									
ER	REC E RM 216	.15A	1	2	.15A	UNIT HEATER UH03/EXH. FAN	ER		
ER	REC E RM 216	.15A	3	4	.15A	UNIT HEATER UH02	ER		
ER	WP REC DOOR 216	.15A	5	6	.15A	UNIT HEATER/EXH. FAN	ER		
ER	REC N RM 216	.15A	7	8	.15A	ELEVATOR CAB LIGHTS	ER		
ER	REC MACHINE RM 217	.15A	9	10	.15A	AIR DRYER AD01	ER		
ER	REC W RM 216	.15A	11	12	.15A	REC WEST RM 216	ER		
ER	REC S RM 216	.15A	13	14	.15A	IG REC PATCH PANEL #2	ER		
ER	EMS PANEL RM 216	.15A	15	16	.15A	HEAT RECOVERY UNIT HR01	ER		
ER	SPARE	.15A	17	18	.15A	IG RECEPTACLE RM 216	ER		
ER	SPARE	.15A	19	20	20A	SPARE	ER	RW	
ER	SPARE	.15A	21	22	SPACE	SPACE	ER		
ER	SPACE	.15A	23	24	SPACE	SPACE	ER		

PROPOSED PANEL 'LP-2M' SCHEDULE							AT THE COMPLETION OF THE PROJECT, PROVIDE A NEW TYPE WRITTEN PANEL DIRECTORY AND INCLUDE A COPY IN THE MAINTENANCE MANUALS		
ER	REC E RM 216	.15A	1	2	.15A	UNIT HEATER UH03/EXH. FAN	ER		
ER	REC E RM 216	.15A	3	4	.15A	UNIT HEATER UH02	ER		
ER	WP REC DOOR 216	.15A	5	6	.15A	UNIT HEATER/EXH. FAN	ER		
ER	REC N RM 216	.15A	7	8	.15A	ELEVATOR CAB LIGHTS	ER		
ER	REC MACHINE RM 217	.15A	9	10	.15A	AIR DRYER AD01	ER		
ER	REC W RM 216	.15A	11	12	.15A	REC WEST RM 216	ER		
ER	REC S RM 216	.15A	13	14	.15A	IG REC PATCH PANEL #2	ER		
ER	EMS PANEL RM 216	.15A	15	16	.15A	HEAT RECOVERY UNIT HR01	ER		
ER	SPARE	.15A	17	18	.15A	IG RECEPTACLE RM 216	ER		
ER	SPARE	.15A	19	20	20A	ROOFTOP MAINTENANCE REC	ER	RW	
ER	SPARE	.15A	21	22	SPACE	SPACE	ER		
ER	SPACE	.15A	23	24	SPACE	SPACE	ER		

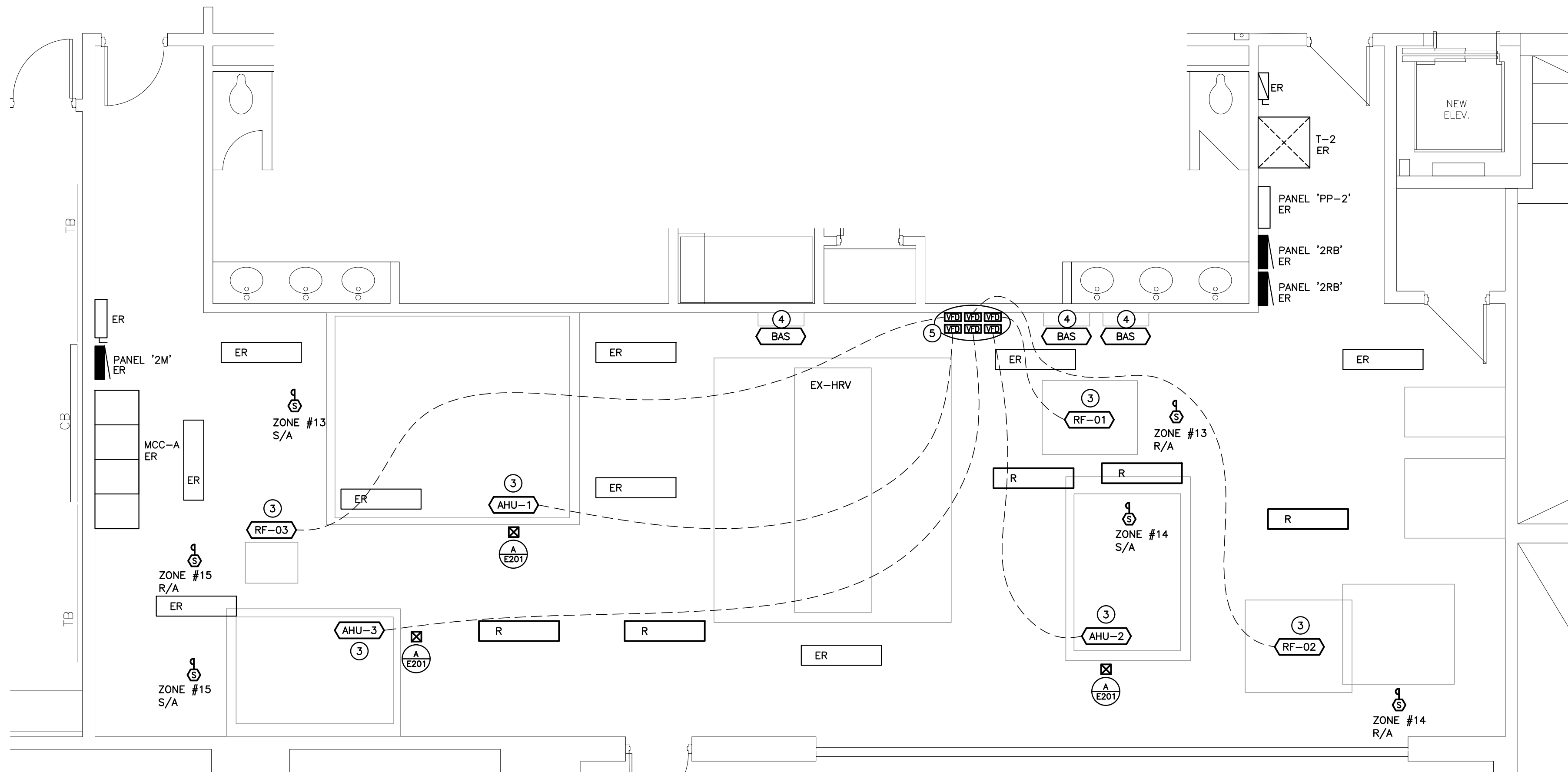
DESIGNATION									
'ER' INDICATES EXISTING SERVICE AND BREAKER THAT SHOULD REMAIN UNTOUCHED 'SP' INDICATES EXISTING BREAKER THAT MAY BECOME SPARE DUE TO DEMOLITION. (CONFIRM ON SITE) 'RW' INDICATES EXISTING BREAKER THAT SHOULD BE REWIRED TO SERVICE DEVICES INDICATED ON PANEL 'SB' INDICATES SPARE BREAKER TO BE USED FOR NEW SERVICE INDICATED. 'NB' INDICATES NEW BREAKER AND WIRING TO SERVICE INDICATED. PROVIDE MOUNTING HARDWARE AS REQUIRED. 'D' INDICATES EXISTING BREAKER TO BE REMOVED COMPLETE. PROVIDE FILLER PLATES AS REQUIRED.									
NOTES: UPDATE PANEL DIRECTORY WITH NEW. TYPEWRITTEN TYPE.									

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
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1	25.03.03	ISSUED FOR TENDER REVIEW	RV
2	25.03.20	ISSUED FOR TENDER	RV
3	25.11.21	REISSUED FOR TENDER	RV



SECOND FLOOR MECHANICAL ROOM – DEMOLITION
SCALE: 1:50



SECOND FLOOR MECHANICAL ROOM – RENOVATION
SCALE: 1:50

GENERAL NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DELETED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC NOTES

- 1 INDICATES MECHANICAL EQUIPMENT BEING REPLACED WITH NEW BY MECHANICAL TRADE. THIS CONTRACTOR IS TO DISCONNECT AND RE-CONNECT EXISTING FEEDER TO NEW DEVICE. REFER TO RENOVATION PLANS FOR CONTINUATION.
- 2 INDICATES MECHANICAL UNIT BEING REMOVED BY DIV. 15. THIS CONTRACTOR IS TO DISCONNECT AND REMOVE FEEDER BACK TO SOURCE. DISCONNECT AND REMOVE ALL CONTROL DEVICES. LABEL SOURCE BREAKER AS SPARE.
- 3 WIRE NEW FEEDERS THROUGH VFDS TO INDICATED REPLACEMENT MECHANICAL EQUIPMENT. REFER TO MCC 'A' SCHEDULE ON E101 FOR ADDITIONAL INFORMATION.
- 4 RECONNECT EXISTING FEEDER MADE AVAILABLE DURING DEMOLITION TO INDICATED BAS PANEL.
- 5 INDICATES VARIABLE FREQUENCY DRIVE FOR MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH MECHANICAL SUPPLIER. THIS CONTRACTOR TO WIRE VFD'S SUPPLIED BY MECHANICAL. PROVIDE 3 CONDUCTOR DRIVER VFD CABLE 1000V RATED FROM VFD TO EACH MECHANICAL EQUIPMENT BY THIS CONTRACTOR.
- 6 EXISTING FIRE ALARM DUCT TYPE SMOKE DETECTOR TO BE REPLACE WITH NEW. MAINTAIN EXISTING WIRING TO CONNECTION TO NEW DEVICE. PROVIDE/EXTEND WIRING AS REQUIRED. REFER TO RENOVATION PLAN FOR CONTINUATION.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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3	25.11.21	REISSUED FOR TENDER	RV

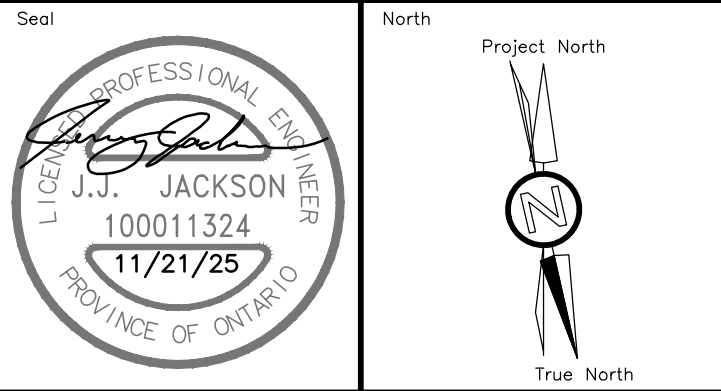


KEYPLAN

LYDIA TRULL PUBLIC SCHOOL
COURTICE ONTARIO



KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD



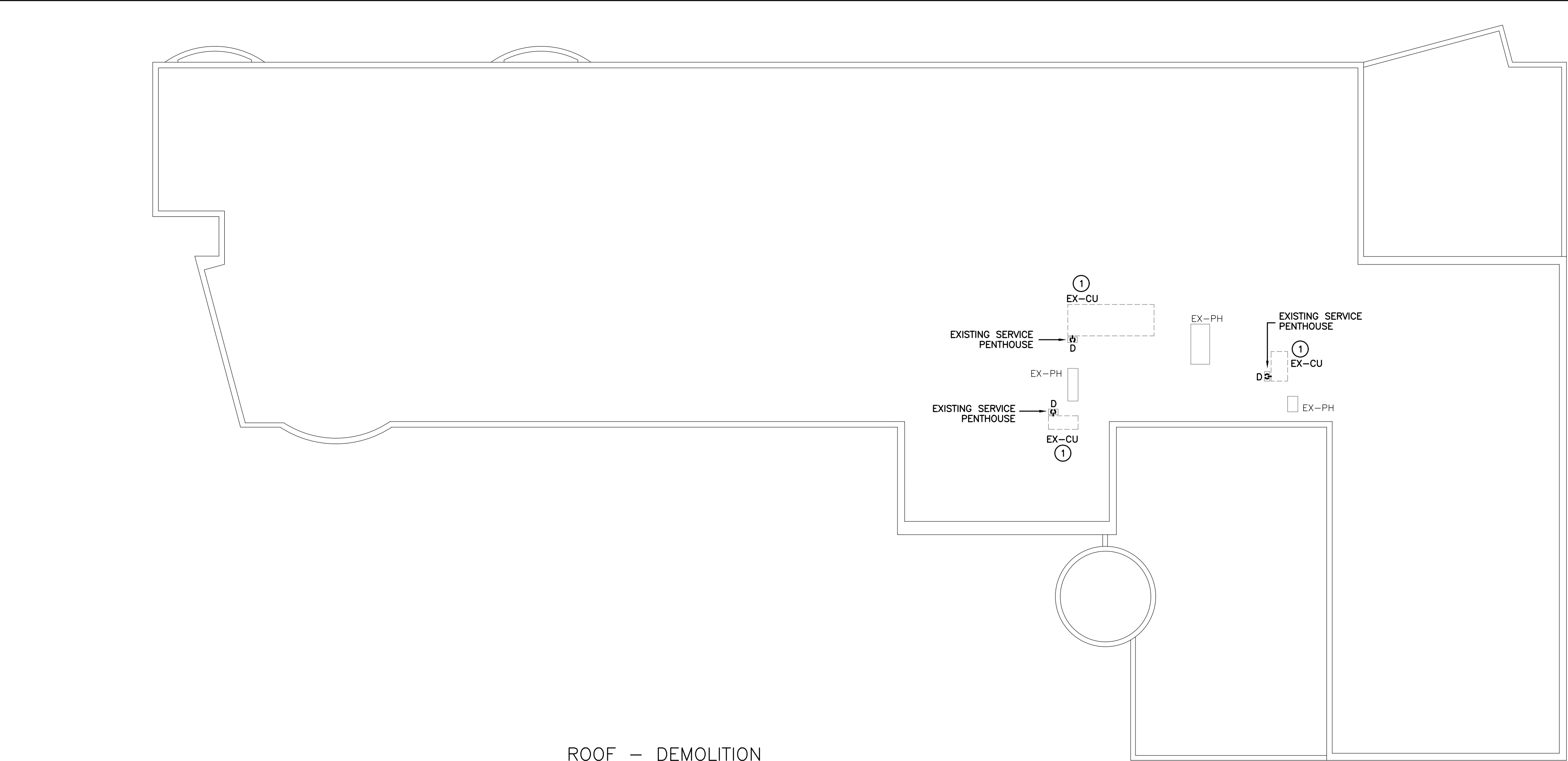
RENOVATION TO:
LYDIA TRULL PUBLIC
SCHOOL MECHANICAL
UPGRADES

80 Avondale Dr, Courtice, ON L1E 3C2

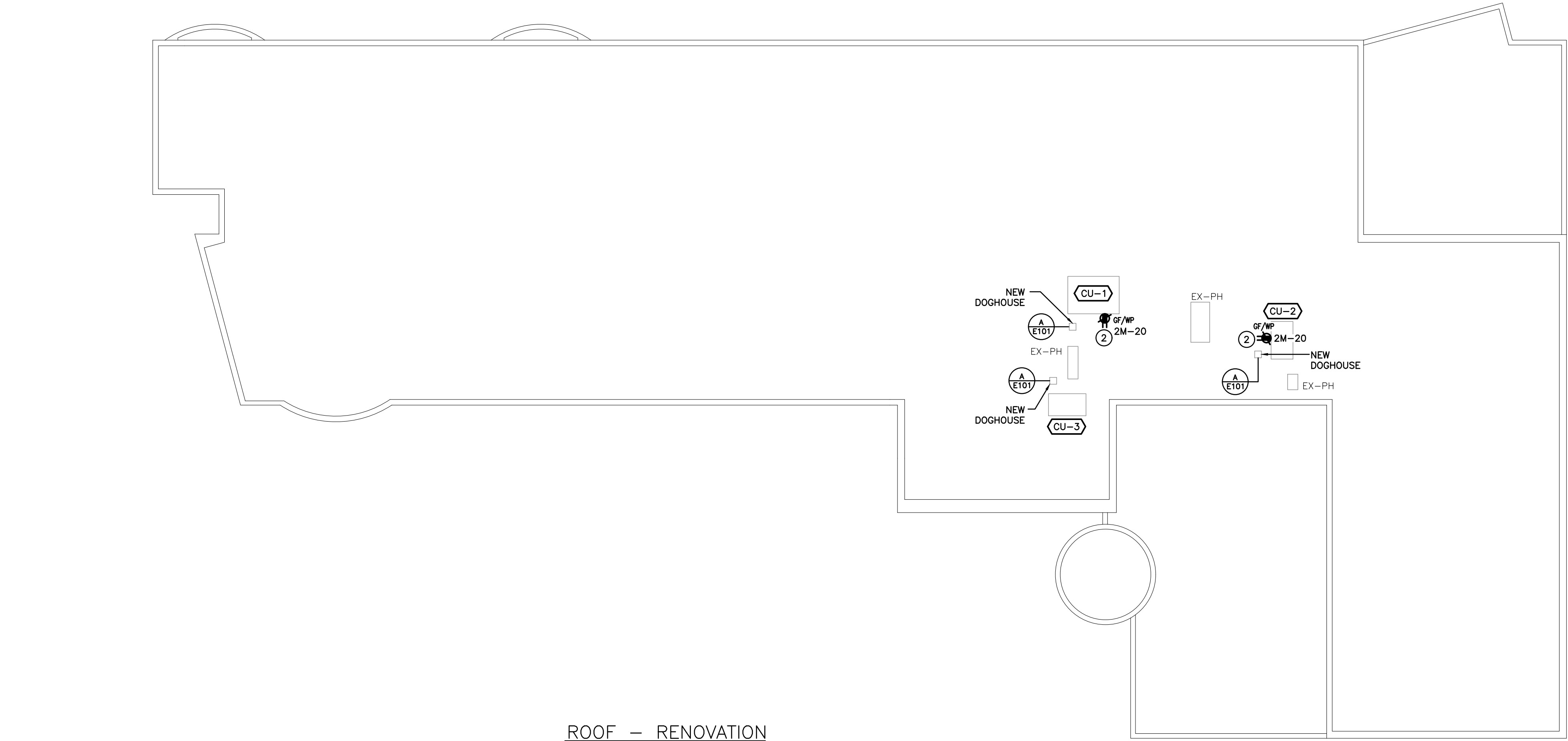
Sheet Title
SECOND FLOOR MECHANICAL
ROOM PLAN – DEMOLITION
AND RENOVATION

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Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
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Drawn by CP	Checked by RV	Approved by JJ
Scale AS NOTED	Project Date SEPT 2024	Print Date SEPT 2024
Project No. 24300	Drawing No. E201	



ROOF — DEMOLITION
SCALE: 1:200



ROOF — RENOVATION
SCALE: 1:200

GENERAL NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC NOTES

- 1 INDICATES MECHANICAL EQUIPMENT BEING REPLACED WITH NEW BY MECHANICAL TRADE. THIS CONTRACTOR IS TO DISCONNECT AND RE-CONNECT EXISTING FEEDER TO NEW DEVICE. REFER TO RENOVATION PLANS FOR CONTINUATION.
- 2 PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN--USE" WEATHER-PROOF COVER. COORDINATE PLACEMENT WITH MECHANICAL TRADE. INDICATED DEVICE IS TO BE MOUNTED ±36" (900mm) ABOVE FINISHED ROOF LEVEL.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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3	25.11.21	REISSUED FOR TENDER	



LYDIA TRULL PUBLIC SCHOOL
COURTICE ONTARIO

Logo of KAWARTHATA PINE RIDGE DISTRICT SCHOOL BOARD

KAWARTHATA PINE RIDGE DISTRICT SCHOOL BOARD

Seal

North

Project North

RENOVATION TO:
LYDIA TRULL PUBLIC SCHOOL MECHANICAL UPGRADES
80 Avondale Dr, Courtice, ON L1E 3C2

Sheet Title
ROOF PLAN — DEMOLITION AND RENOVATION

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Project No. 24300	Drawing No. E202	