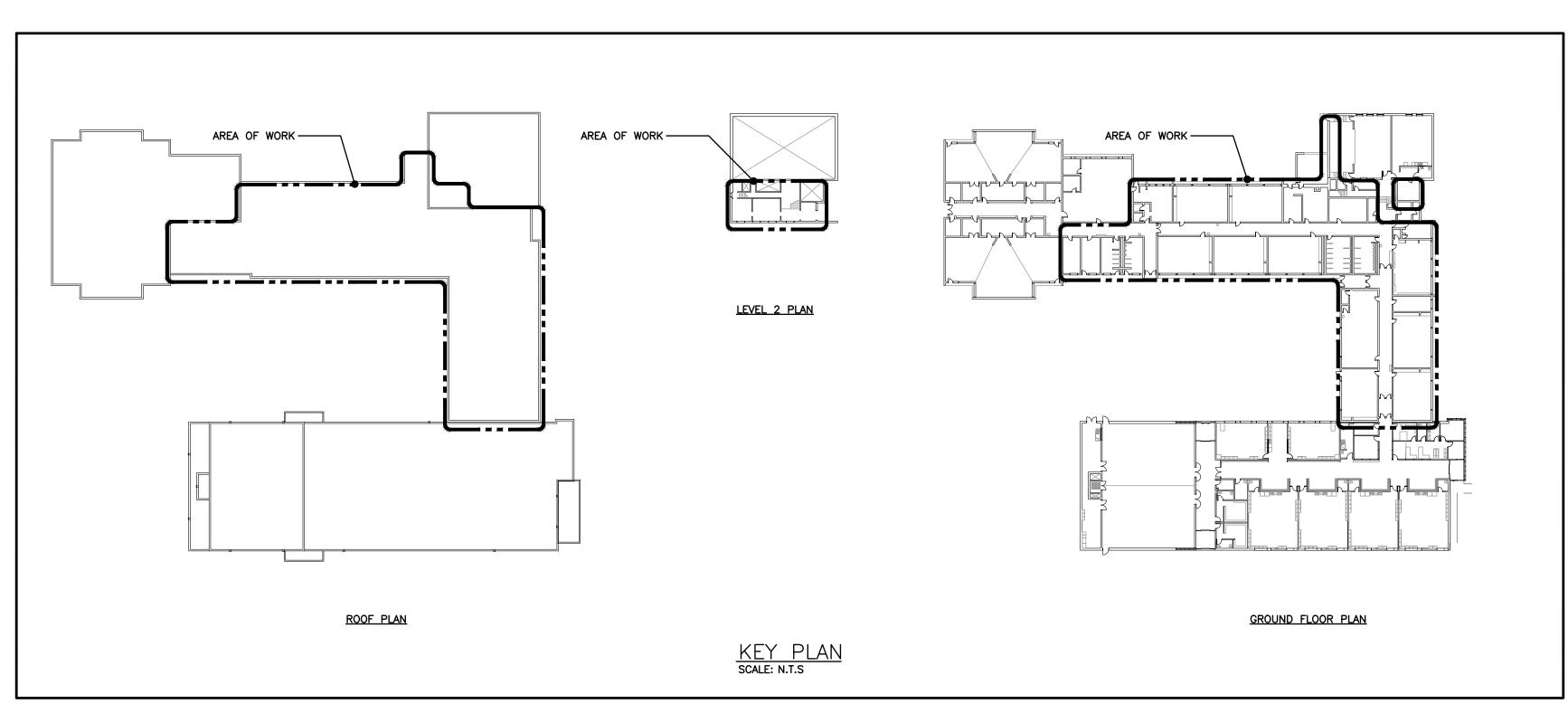
UNIT VENTILATOR SCHEDULE Capacity Outdoor Air (cfm) SP in. Size tons cfm Min. Occ. Free Cool wc hp Medium Rows F F F MBH GPM* Medium Total Cap. Medium MBH MBH MBH MBH MBH MBH MBH MBH MBH MACA MOCP Item Remarks 3-SPEED ECM MOTOR, FACE & BYPASS HEATING COIL, 3-WAY VALVE AT 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 UV-3 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 UNIT VENTILATOR HEATING COIL, 250mm INSULATED REAR PIPE CHASE, TOP SUPPLY DISCHARGE HEAD, DIGITAL READY CONTROLS PACKAGE, REAR OA INTAKE FLOOR MOUNTED UV-4 3.0 | 1250 | 180 | 370 | 1000 | 0.25 | 1/3 | WATER | 2 | 150 | 130 | 75 | 7.5 | DX 32.6 | 120/1/60 | 6.3 | 15 | DAIKIN DUCT COLLAR, TWO (2) FULL-DEPTH END PANELS (CUT-OUTS TO BE COMPLETED ON SITE TO SUIT DRAFTSTOP DOWNDRAFT PROTECTION UNIT VENTILATOR FLOOR MOUNTED UV-5 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 FEATURE & PIPING TUNNEL) C/W MOUNTING HARDWARE & KICKPLATE UNIT VENTILATOR (CONFIRM CUT-OUTS WITH MANUFACTURER), BOTTOM FRONT RA INLET FLOOR MOUNTED 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 UV-6 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN GRILLE & DRAFTSTOP DOWNDRAFT PROTECTION RA INLET, UNIT MOUNTED UNIT VENTILATOR -DISCONNECT (INSIDE ENCLOSURE), HEATING COIL FREEZESTAT (FACTORY FLOOR MOUNTED INSTALLED & WIRED), ADJUSTABLE LEG LEVELLERS, PUTTY BEIGE CABINET UV-7 2.0 | 750 | 30 | 65 | 600 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 31.7 | 3.2 | DX | 22.9 17.2 | 120/1/60 | 6.3 | 15 | DAIKIN UNIT VENTILATOR COLOUR, TAMPER-RESISTANT FASTENERS ON ALL ACCESS DOORS, FLOOR MOUNTED REPLACEMENT FILTERS C/W ONE EXTRA SET. SECONDARY OVERFLOW DRAIN UV-8 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UNIT VENTILATOR CONNECTION FOR CONDENSATE PAN, 50mm BASE TO RAISE UNIT, SET FAN TO MEDIUM SPEED FLOOR MOUNTED UAVS9-H07 UV-9 2.0 | 750 | 30 | 65 | 600 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 31.7 | 3.2 | DX | 22.9 17.2 | 120/1/60 | 6.3 | 15 | DAIKIN UNIT VENTILATOR FLOOR MOUNTED UV-10 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 UNIT VENTILATOR FLOOR MOUNTED 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 UNIT VENTILATOR UV-12 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 UNIT VENTILATOR FLOOR MOUNTED UV-13 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 UNIT VENTILATOR FLOOR MOUNTED | FLOOK MOUNTED | 2.5 | 1000 | 120 | 310 | 800 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 46.2 | 4.6 | DX | 33.2 UV-14 24.9 |120/1/60| 6.3 | 15 |DAIKIN UAVS9-H10 UV-15** STANDING UNIT VENTILATOR CMD24BC VERTICAL FLOOR STANDING, C/W SUPPLY AND EXHUAST, FACE & BYPASS 2.5 800 45 110 640 0.5 3/4 WATER 1 150 130 54 5.5 DX 24.4 17.5 | 208/1/60 | 10 | 15 | AIREDALE MAAANNN92 | HEATING COIL, ECM MOTOR, & HEAVY DUTY LATTICE GRILLE | FLOOR MOUNTED | 2.0 | 750 | 30 | 65 | 600 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 31.7 | 3.2 | DX | 22.9 UV-16 17.2 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H07 REFER TO UV-3 THRU UV-14 REMARKS GENERAL UNIT VENTILATOR NOTES:

3. ** UNIT VENTILATOR IS EXISTING EQUIPMENT RELOCATED FROM OTHER SCHOOL. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT RELOCATION, FOR PROVISION OF NEW HOT WATER HEAT COIL, NEW HWS/R AND RS/RL CONNECTIONS, AND FOR VERIFYING EQUIPMENT

em Type	Service	Tons	Capacity MBH	Type	pressor No.	No. Stages	efrig. Su		No. of Cond. Fans	Voltage Ele	ectrical MCA	МОСР	Manufacturer	Model	Remarks
3 OUTDOOR ROOF MOUNTED	CLASSROOM 7	2.5	28.6	SCROLL	1	1 R4		52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-3.
-4 OUTDOOR ROOF MOUNTED	CLASSROOM 8	3.5	42.0	SCROLL	1	1 R4	110A	52	1	208/1/60	23.3	40	DAIKIN	DX16SA0421	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-4.
J-5 OUTDOOR ROOF MOUNTED	CLASSROOM 22	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-5.
J-6 OUTDOOR ROOF MOUNTED	CLASSROOM 21	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-6.
J-7 OUTDOOR ROOF MOUNTED	SEMINAR 154	1.5	24.6	SCROLL	1	1 R4	110A	52	1	208/1/60	12.2	20	DAIKIN	DX16SA0181	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-7.
J-8 OUTDOOR ROOF MOUNTED	CLASSROOM 20	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-8.
J-9 OUTDOOR ROOF MOUNTED	SEMINAR 153	1.5	24.6	SCROLL	1	1 R4	110A	52	1	208/1/60	12.2	20	DAIKIN	DX16SA0181	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-9.
-10 OUTDOOR ROOF MOUNTED	CLASSROOM 9	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-10.
J-11 OUTDOOR ROOF MOUNTED	CLASSROOM 10	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-11.
-12 OUTDOOR ROOF MOUNTED	CLASSROOM 11	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-12.
-13 OUTDOOR ROOF MOUNTED	CLASSROOM 19	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-13.
-14 OUTDOOR ROOF MOUNTED	CLASSROOM 18	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-14.
-15 OUTDOOR ROOF MOUNTED	STAFF ROOM 140	2.5	28.6	SCROLL	1	1 R4	110A	52	1	208/1/60	17	25	DAIKIN	DX16SA0311	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-16.
-16 OUTDOOR ROOF MOUNTED	OFFICE 124	1.5	24.6	SCROLL	1	1 R4	110A	52	1	208/1/60	12.2	20	DAIKIN	DX16SA0181	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-16.



1. ACCEPTABLE MANUFACTURERS: DAIKIN, CHANGE AIR, ENGINEERED AIR, AIRDALE, TRANE

2. * EQUIPMENT SHALL BE SELECTED AS INDICATED IN THIS SCHEDULE. EQUIPMENT WILL BE BALANCED TO LOWER WATER FLOW RATE THAN INDICATED IN THIS SCHEDULE.

DETAILS (INCLUDING ELEC INFO) WITHIN ONE WEEK OF AWARD OF CONTRACT. CONTRACTOR TO INFORM CONSULTANT IMMEDIATELY OF ANY DISCREPANCIES FROM INFO INDICATED IN THIS SCHEDULE.

Item	Description	Item	Description
+	CUT EXISTING & CONNECT NEW PIPING	TCV	TEMPERATURE CONTROL VALVE (2-WAY)
-	FLOW DIRECTION	TCV	TEMPERATURE CONTROL VALVE (3-WAY)
G	NATURAL GAS	Φ	TEMPERATURE GAUGE
—CD—	CONDENSATE PIPING	Q	THERMOMETER
—HWS——	HEATING WATER SUPPLY PIPING	GФ	THERMOSTAT (WITH OR WITHOUT GUARD)
– —HWR— —	HEATING WATER RETURN PIPING	_C ©	CARBON DIOXIDE (CO2) SENSOR (WITH OR WITHOUT GUARD)
——RL——	REFRIGERANT LIQUID PIPING	Size 1 Type Size 2	HYDRONIC HEATING SIZE,
—RS—	REFRIGERANT SUCTION PIPING	Capacity	TYPE & CAPACITY
	TEE CONNECTION	AD	ACCESS DOOR
c —	PIPE DOWN		EXPANSION COMPENSATOR/JOINT
o —	PIPE UP	RIC	RETURN IN CABINET
0	SIGHT GLASS	AFF	ABOVE FINISHED FLOOR
~	FLEXIBLE CONNECTION	AFR	ABOVE FINISHED ROOF
	REDUCER/INCREASER	— ЕХ —	EXISTING DUCT (SIZE AS INDICATED)
7	CHECK VALVE	>>>>	TURNING VANES
	UNION		SUPPLY AIR DUCT
 ç 	STRAINER		RETURN/EXHAUST AIR DUCT
₽vв	VACUUM BREAKER	-	ACOUSTIC DUCT LINING
	SCREWED OR WELDED PIPE CAP		THERMAL INSULATION
NO	NORMALLY OPEN		BRANCH LINE SPIN-IN COLLA C/W BALANCING DAMPER
NC	NORMALLY CLOSED		TRUNK MAIN BRANCH COLLAR C/W BALANCING DAMPER
l o l	BALL VALVE	— BD	BALANCING DAMPER
PΑV	AIR VENT	~~~ M	MOTORIZED DAMPER
\$	CONTROL VALVE ACTUATOR	— FD	FIRE DAMPER
≮ G——	RISER VALVE	<u></u>	RECTANGULAR DUCTWORK
BV BV	BALANCING VALVE	D	SIDEWALL SPRINKLER HEAD

GENERAL NOTES

- A. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- B. CONTRACTOR TO INCLUDE COST FOR CONSULTANT TO COMPLETE ELECTRONIC CAD AS-BUILT DWGS (ALL PAGES). REFER TO SPEC SECTION 15010/20 02 51 RECORD DWGS.
- C. ALL PIPING, DUCTWORK, AND EQUIPMENT IS TO BE RESTRAINED TO MEET SEISMIC CODE REQUIREMENTS. SUPPLY AND INSTALL ALL SEISMIC RESTRAINT MATERIALS TO MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATION.
- D. CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED.

ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

E. 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

- FIRE PROTECTION ENGINEER'S INSPECTION/CONFORMANCE LETTER

<u>PUM</u>	CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION. Capacity Used Size Floatrical Speed Manufactures											
Item	Туре	Capacity USgpm	Head ft	Size hp	Electrical Voltage	Speed rpm	Manufacturer & Model	Remarks				
P-3	BASE MOUNTED SYSTEM PUMP	45	50	1.5	208/3/60		ARMSTRONG 4380	C/W WALL MOUNTED VFD.				

EL	ECTRIC	DUC	T HE	<u>ATER</u>	SCH	<u>EDULE</u>	- -		CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Туре	СҒМ	Input Capacity	Input Medium	SIZE	Electric Voltage	cal MCA	Manufacturer & Model	Remarks
EDH-1	SLIP IN OPEN COIL MAIL ROOM	80	2kW	ELEC	6"x6"	208/1/60	9.6	THERMOLEC SC	SLIP-IN OPEN COIL, COMPLETE WITH SRC CONTROLS AND TEMPERATURE SENSOR.

<u>HEA</u>	T RECOV	ERY	UN	IIT	SCH	IEDULI		CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Туре	Supply cfm	FXH	SP in wc	MCA	ectrical Voltage	Manufacturer & Model	Remarks
ERV-1	ENERGY RECOVERY VENTILATOR	80	80	0.3	1.46	120/1/60	ALDES E80-HRX	OUTDOOR AIR INTAKE AND EXHUAST THROUGH CONCENTRIC VENT KIT. MANUFACTURER: TANDEM TRANSITION 14690

<u>SPLI</u>	T AIR CO	<u> </u>)ITIC	NINO	G UN	NIT SC	HE	DU	<u>LE</u>	CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
lkama	Туре	Capacity			Heating				Manufacturer	Remarks		
Item	Туре	tons	cfm	Capacity Capacity MBH MBH		Voltage	MCA	Fuse	or Approved (or Alternate)	I/GIIII/V2		
FC-17A	INDOOR FAN COIL	3/4	300	9.0	12.0	208/1/60	8	15	DAIKIN FTXS09LVJU	CONNECT TO CU-14		
FC-17B	INDOOR FAN COIL	3/4	300	9.0	12.0	208/1/60	8	15	DAIKIN FTXS09LVJU	CONNECT TO CU-14		
CU-17	CONDENSING UNIT	1.5	-	17.0	17.0	208/1/60	10.9	15	DAIKIN 2MX18AXVJU	PROVIDE POWER FOR FC-1 & FC-2 FROM CU-17. PROVIDE BAS CONTROL MODULE, C/W FACTORY INSTALLED ULTRA LOW AMBIENT OPTION		

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.

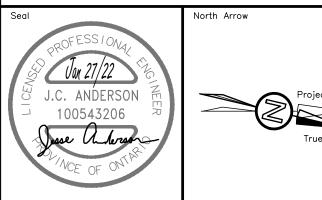
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

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		ISSUANCES	
No	DATE YY.MM.DD	DESCRIPTION	BY
1	21.12.21	ISSUED FOR 99% TENDER REVIEW	JA
2	21.01.27	ISSUED FOR PERMIT AND TENDER	JA





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HVAC RENOVATIONS
Tender # 7198-RW-22

BUILDING PLAN, SCHEDULES & GENERAL NOTES



Consulting Engineers

WILL THE THIRT PROPERTY OF THE PROPERTY OF THE

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

Drawn by	Checked by	Approved by
HAD	JA	JA
Scale	Project Date	Print Date
AS NOTED	JAN 2022	JAN 2022

21047

M101

GRIL	LE SCHEDULE				
Item	Туре	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
S1	LOUVERED SUPPLY GRILLE	NO	NONE	EH PRICE 70	DOUBLE DEFLECTION, 1/2" SPACING, EXTRUDED ALUMINUM BLADES PARALLEL TO LONG DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.
R1	CEILING RETURN GRILLE (NON-DUCTED)	NO	NONE	EH PRICE 80	1/2x1/2x1/2 ALUMINUM EGGCRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.
E1	CEILING RETURN GRILLE (DUCTED)	NO	NONE	EH PRICE 80	1/2x1/2x1/2 ALUMINUM EGGCRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.
D1	SQUARE CEILING DIFFUSER	YES	NONE	EH PRICE SCDA	MULTICONE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK. SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME. PROVIDE FIRE STOP FLAP & FIRE BLANKET.

GENERAL DIFFUSER/GRILLE NOTES:
1. ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, CARNES, METALAIRE, TUTTLE & BAILEY
2. GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART, UNLESS OTHERWISE NOTED. 3. PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATT BLACK (WHERE VISIBLE THRU GRILLE).

<u>LOU\</u>	LOUVER SCHEDULE										
Item	Туре	Size	Airflow cfm	Free Area (Pressure Drop)	Acceptable Manufacturer	Description					
L-1	2" (50mm) DRAINABLE BLADE LOUVER	SEE PLANS	SEE PLANS		FL-D-2	EXTRUDED ALUMINUM CONSTRUCTION, 2" DEEP BLADES, 1.5" BLADE SPACING DRIP EDGE, DRAINABLE JAMB, MIN 39% FREE AREA AT SPECIFIED SIZE, MIN 805 FPM BEGINNING POINT OF WATER ENTRY, GALVANIZED BIRD SCREEN WITH MAX 1/2" OPENINGS.					

DYNAMICALLY BALANCED SYSTEM (PUMP P-4)

THE HYDRONIC HEATING SYSTEM ASSOCIATED WITH PUMP P-4 IS TO DYNAMICALLY REBALANCED. THIS DYNAMIC BALANCING REQUIRES THREE STEPS:

FULL 'SYSTEM' BALANCE: THIS IS A STANDARD BALANCE EXERCISE. ALL HYDRONIC HEATING COMPONENTS (FAN COILS, UNIT VENTILATORS, RADIANT HEATERS) ARE INCLUDED. NO COMPONENTS ARE ISOLATED. ALL COMPONENTS ARE BALANCED TO MINIMUM FLOW RATES AS INDICATED IN BALANCING TABLE. RECORD PUMP FLOW RATE.

RADIANT HEATING FLOW BALANCE: ALL UNIT VENTILATORS WITH 2-WAY VALVES ARE MANUALLY ISOLATED. UNIT VENTILATORS WITH 3-WAY VALVES ARE SET TO FULL BYPASS. CONFIRM THAT MINIMUM FLOW RATES IN CLASSROOM RADIANT HEATERS MEET MINIMUM FLOW RATES AS INDICATED IN THE DYNAMIC BALANCING TABLE. INCREASE

DIFFERENTIAL PRESSURE SET-POINT FOR P-4 IF NECESSARY TO MEET

MINIMUM FLOW RATES. RECORD PUMP FLOW RATED. UNIT VENTILATOR FLOW BALANCE: ALL CLASSROOM RADIATORS ARE MANUALLY ISOLATED. ALL UNIT VENTILATORS ARE SET TO FULL FLOW. CONFIRM THAT MINIMUM FLOW RATES IN UNIT VENTILATORS MEET MINIMUM FLOW RATES AS INDICATED IN THE DYNAMIC BALANCING TABLE. INCREASE DIFFERENTIAL PRESSURE SET—POINT FOR P—4

IF NECESSARY TO MEET MINIMUM FLOW RATES. RECORD PUMP FLOW RATE.

4. RECORD FINAL DIFFERENTIAL PRESSURE SETPOINT FOR PUMP.

NOTES:

- 1. UNIT VENTILATOR EQUIPMENT SHALL MEET MINIMUM HEATING CAPACITY AS SCHEDULED. UNIT VENTILATORS WILL BE BALANCED BELOW SCHEDUELD HEATING CAPACITY.
- 2. EXISTING CLASSROOM RADIANT HEATERS ARE BALANCED TO LOWER FLOW RATES THAN ORIGINAL DESIGN.
- 3. FULL 'SYSTEM' FOR THIS DYNAMIC BALANCE EXERCISE REFERS TO ALL HYDRONIC LOAD COMPONENTS CONNECTED TO P-4.

DYNAMICALLY BALANCED SYSTEM (P-4) SCHEDULE

		Full System	Radiant Heating	Unit Ventilator	
		Balance*	Balance**	Balance**	l
Location	Hydronic Item	(FLOW GPM)	(MIN GPM)	(MIN GPM)	Valve
CLASSROOM 7	EXISTING RAD	3.0	4.0	-	2-WAY
CLASSROOM 7	NEW UNIT VENT	3.0	4.0	4.5	3-WAY
CLASSROOM 8	EXISTING RAD	3.0	4.0	-	2-WAY
CLASSROOM 8	NEW UNIT VENT	4.0	_	6.0	2-WAY
CLASSROOM 9	EXISTING RAD	3.0	4.0	-	2-WAY
CLASSROOM 9	NEW UNIT VENT	3.0	_	4.5	2-WAY
CLASSROOM 10	EXISTING RAD	3.0	4.0	-	2-WAY
CLASSROOM 10	NEW UNIT VENT	3.0	_	4.5	2-WAY
CLASSROOM 11	EXISTING RAD	3.0	4.0	-	2-WAY
CLASSROOM 11	NEW UNIT VENT	3.0	4.0	4.5	3-WAY
CLASSROOM 18	EXISTING RAD	3.0	4.0	-	2-WAY
CLASSROOM 18	NEW UNIT VENT	3.0	4.0	4.5	2-WAY
CLASSROOM 19	EXISTING RAD	3.0	4.0	-	2-WAY
CLASSROOM 19	NEW UNIT VENT	3.0	_	4.5	2-WAY
CLASSROOM 20	EXISTING RAD	3.0	4.0	_	2-WAY
CLASSROOM 20	NEW UNIT VENT	3.0	_	4.5	2-WAY
CLASSROOM 21	EXISTING RAD	3.0	4.0	_	2-WAY
CLASSROOM 21	NEW UNIT VENT	3.0	_	4.5	2-WAY
CLASSROOM 22	EXISTING RAD	3.0	4.0	_	2-WAY
CLASSROOM 22	NEW UNIT VENT	3.0	4.0	4.5	3-WAY
SEMINAR 153	NEW UNIT VENT	2.5	3.3	3.8	2-WAY
SEMINAR 154	NEW UNIT VENT	2.5	3.3	3.8	2-WAY
VESTIBULE 807	CONVECTION HTR	3.0	4.0	4.5	2-WAY
CORRIDOR 810	RADIATOR	2.0	2.7	3.0	2-WAY
BOYS WR 120	UNIT HEATER	1.5	2.0	2.3	2-WAY
GIRLS WR 121	UNIT HEATER	1.5	2.0	2.3	2-WAY
STAGE 148	EXISTING RAD	4.0	5.3	6.0	2-WAY
RES A 201	EXISTING RAD	2.5	3.3	3.8	2-WAY
RES B 202	EXISTING RAD	2.5	3.3	3.8	2-WAY
MECH RM	PUMP P-4	83	85	80	 I

GENERAL DYNAMIC BALANCING NOTES: 1. * PRELIMINARY BALANCE TO THIS VALUE. RECORD DIFFERENTIAL PRESSURE SETTING AND PUMP FLOW RATE.
2. ** PRELIMINARY BALANCE, CONFIRM THAT THIS FLOW RATE IS ACHIEVED WITH SELECT ITEMS ISOLATED (AS INDICATED). INCREASE DP SET POINT AS REQUIRED TO ACHIEVE FLOW. RECORD DP SET POINT AND PUMP FLOW RATE.

3. GREY VALUES ARE ESTIMATES. NO CONFIRMATION REQUIRED 4. DASH (-) INDICATES ITEM THAT IS ISOLATED. VALVE CLOSED)

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The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

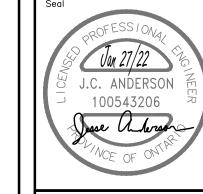
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ISSUANCES											
No	DATE YY.MM.DD	DESCRIPTION	BY								
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2	21.01.27	ISSUED FOR PERMIT AND TENDER	JA								





TAIT STREET PS
HVAC RENOVATIONS
Tender # 7198-RW-22

SCHEDULES

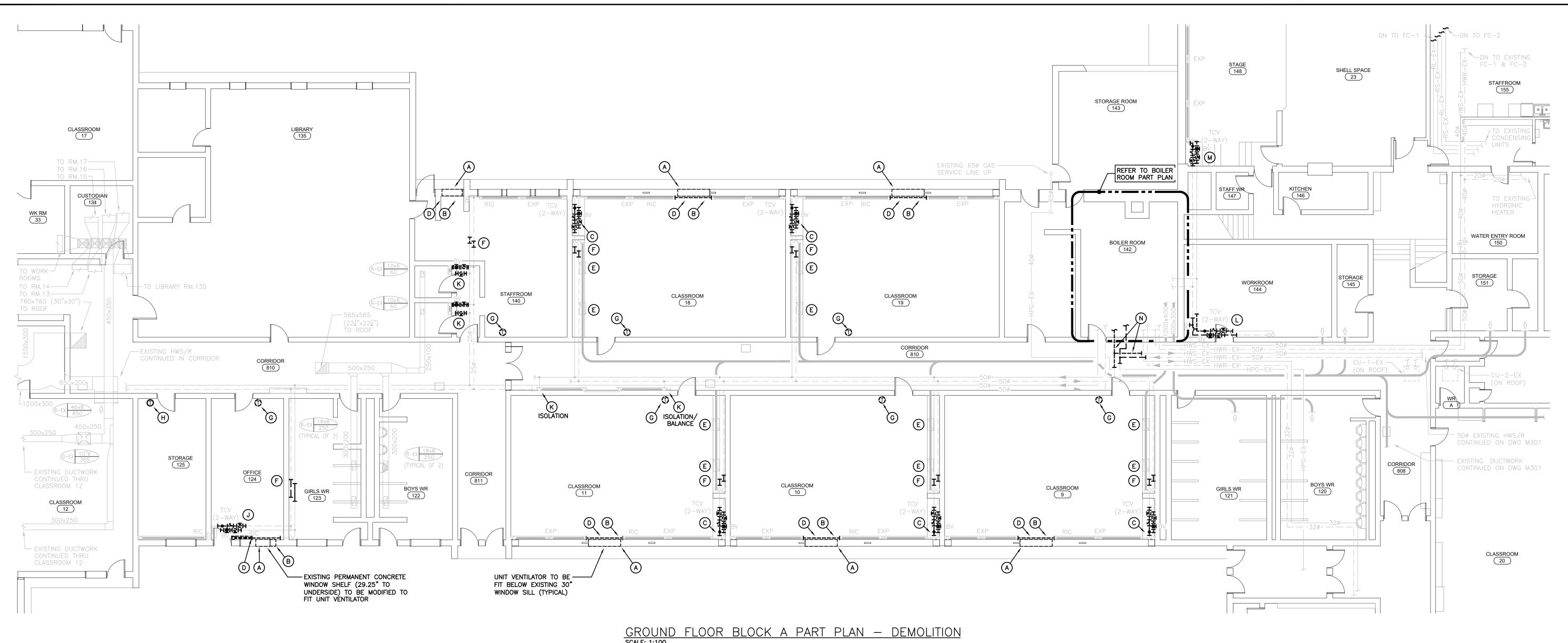


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	HAD	JA	JA	
	Scale	Project Date	Print Date	
	AS NOTED	JAN 2022	JAN 2022	
			,	

21047







- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF. NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF
- CONSULTANTS & OWNER.
- HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS. HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE

SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT

- STRUCTURAL INTEGRITY OF EXTERIOR WALL. PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE
- EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ± 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH
- MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

SPECIFIC DEMOLITION NOTES

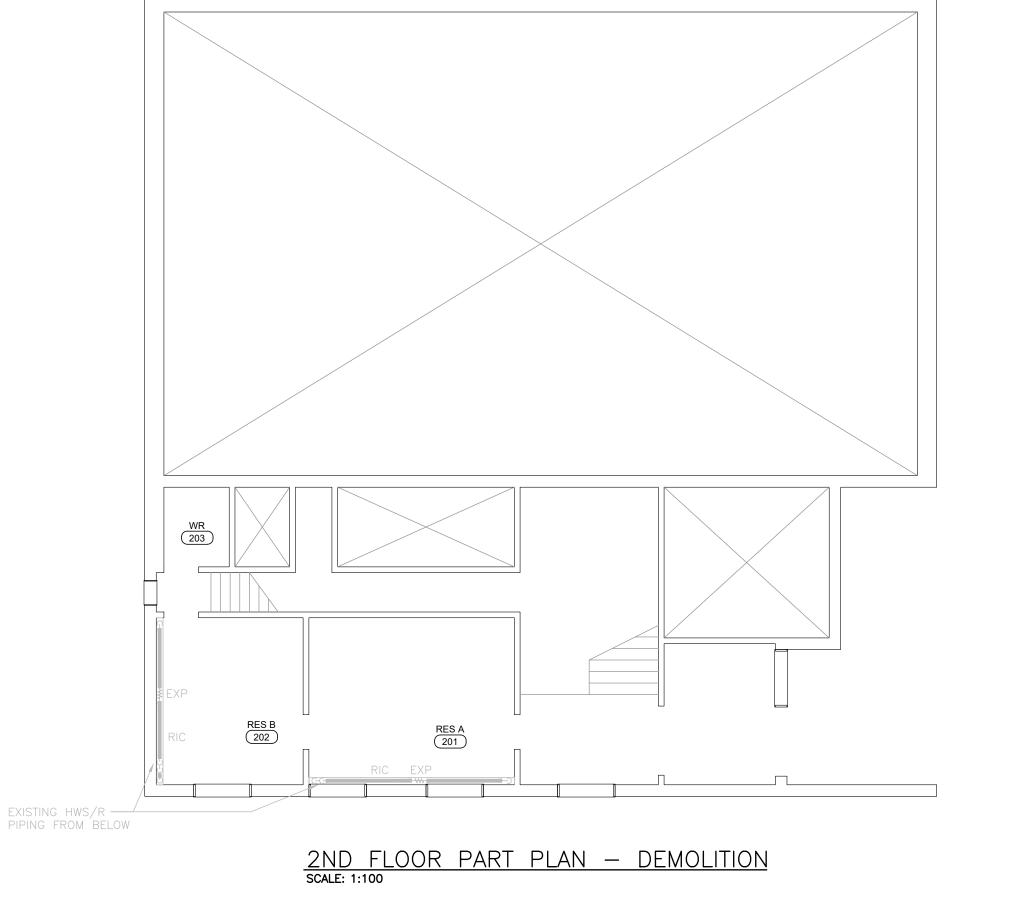
- A. OPENING REQUIRED UNDER WINDOW FOR INSTALL OF NEW SUPPLY AIR LOUVER. SHORING & LINTEL REQUIRED (SEE STRUCTURAL DRAWINGS). SEE
- B. EXISTING SECTION OF RADIANT HEATING CABINET TO BE REMOVED COMPLETE. MODIFY CABINET TO ACCOMMODATE NEW UNIT VENTILATOR.
- C. EXISTING ISOLATION, BALANCE AND CONTROL VALVES IN MILLWORK TO BE REMOVED COMPLETE AND REPLACED.
- D. MODIFY EXISTING RADIANT HEATER PIPING. PREPARE TO ROUTE THRU PIPE CHASE IN BACK OF NEW UNIT VENTILATOR. SEE DETAILS.
- E. EXISTING EXHAUST ARE GRILLES AND ASSOCIATED DUCTWORK TO REMAIN.
- F. CUT EXISTING HWS/R AND PREPARE FOR NEW CONNECTION.
- G. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. PROVIDE NEW DDC THERMOSTAT & CONTROL WIRING.
- EXISTING ISOLATION, BALANCE & CONTROL VALVES IN CEILING TO BE REMOVED COMPLETE AND REPLACED.

H. PNEUMATIC THERMOSTAT TO BE REMOVED. CAP EXISTING PNEUMATIC PIPE.

- K. EXISTING ISOLATION & BALANCE VALVES IN CEILING TO BE REMOVED COMPLETE AND REPLACED. NO CONTROL. HEATING RUNS WILD.
- EXISTING VALVES SERVING RADIANT HEATERS ON FLOOR ABOVE TO BE

REMOVED COMPLETE AND REPLACED.

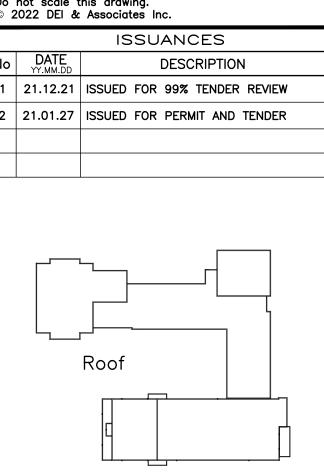
- M. EXISTING ISOLATION, BALANCE & CONTROL VALVES IN RADIANT HEATING CABINET TO BE REMOVED COMPLETE AND REPLACED.
- N. REMOVE EXISTING HYDRONIC MAINS AS SHOWN. PREPARE FOR CONNECTION OF NEW MAINS PIPED INTO MECHANICAL ROOM. SEE RENO DRAWINGS.



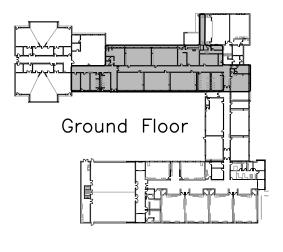
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant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

Do not scale this drawing.

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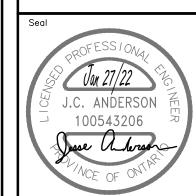


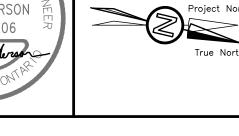


Level 2

<u>Key Plan</u>







TAIT STREET PS HVAC RENOVATIONS Tender # 7198-RW-22

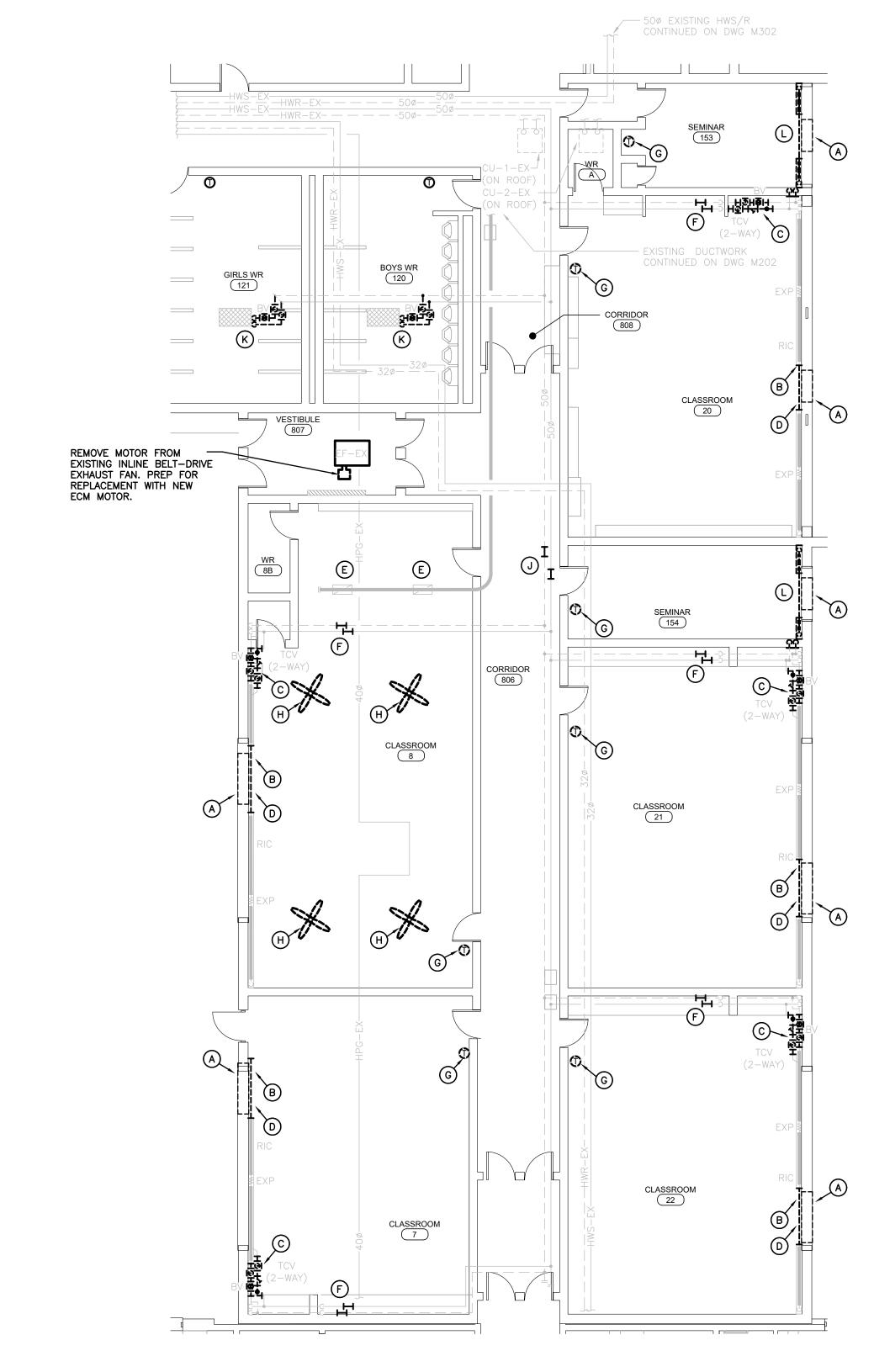
GROUND & 2ND FLOOR BLOCK A PART PLANS HVAC DEMOLITION



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AS NOTED	JAN 2022	JAN 2022	



<u>GROUND FLOOR BLOCK B PART PLAN — DEMOLITION</u> SCALE: 1:100

GENERAL DEMOLITION NOTES

CONSULTANTS & OWNER.

- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF. NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO
- STRUCTURE. MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF EXTERIOR WALL.
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ± 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

SPECIFIC DEMOLITION NOTES

- A. OPENING REQUIRED UNDER WINDOW FOR INSTALL OF NEW SUPPLY AIR LOUVER. SHORING & LINTEL REQUIRED (SEE STRUCTURAL DRAWINGS). SEE
- B. EXISTING SECTION OF RADIANT HEATING CABINET TO BE REMOVED COMPLETE. MODIFY CABINET TO ACCOMMODATE NEW UNIT VENTILATOR.
- C. EXISTING ISOLATION, BALANCE AND CONTROL VALVES IN RADIANT HEATING CABINET TO BE REMOVED COMPLETE AND REPLACED.
- D. MODIFY EXISTING RADIANT HEATER PIPING. PREPARE TO ROUTE THRU PIPE CHASE IN BACK OF NEW UNIT VENTILATOR. SEE DETAILS.
- E. EXISTING EXHAUST ARE GRILLES AND ASSOCIATED DUCTWORK TO REMAIN.
- F. CUT EXISTING HWS/R AND PREPARE FOR NEW CONNECTION.
- G. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. PROVIDE NEW DDC THERMOSTAT & CONTROL WIRING.
- H. REMOVE COMPLETE EXISTING DE-STRATIFICATION FAN. TURN OVER IN EXISTING OPERABLE CONDITION TO WRDSB FOR INSTALL IN OTHER CLASSROOM.
- J. CUT IN WELLS FOR NEW DIFFERENTIAL PRESSURE SENSOR.
- K. EXISTING ISOLATION AND BALANCE VALVES AT CEILING TO BE REMOVED COMPLETE AND REPLACED.
- REMOVE EXISTING RADIANT HEATER COMPLETE. RADIANT HEATER WILL BE REPLACED WITH UNIT VENTILATOR.

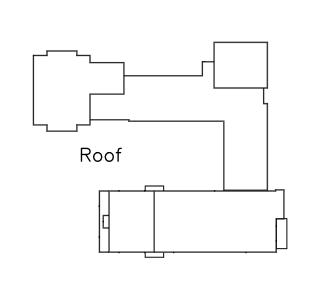
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The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

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Do not scale this drawing.

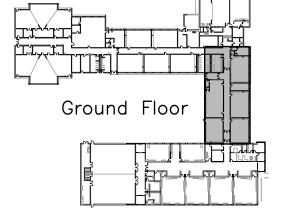
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2	21.01.27	ISSUED FOR PERMIT AND TENDER	JA

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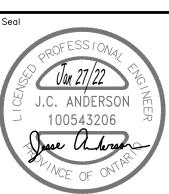
Level 2

AREA OF WORK



<u>Key Plan</u>





TAIT STREET PS HVAC RENOVATIONS Tender # 7198-RW-22

GROUND FLOOR BLOCK B PART PLAN HVAC DEMOLITION

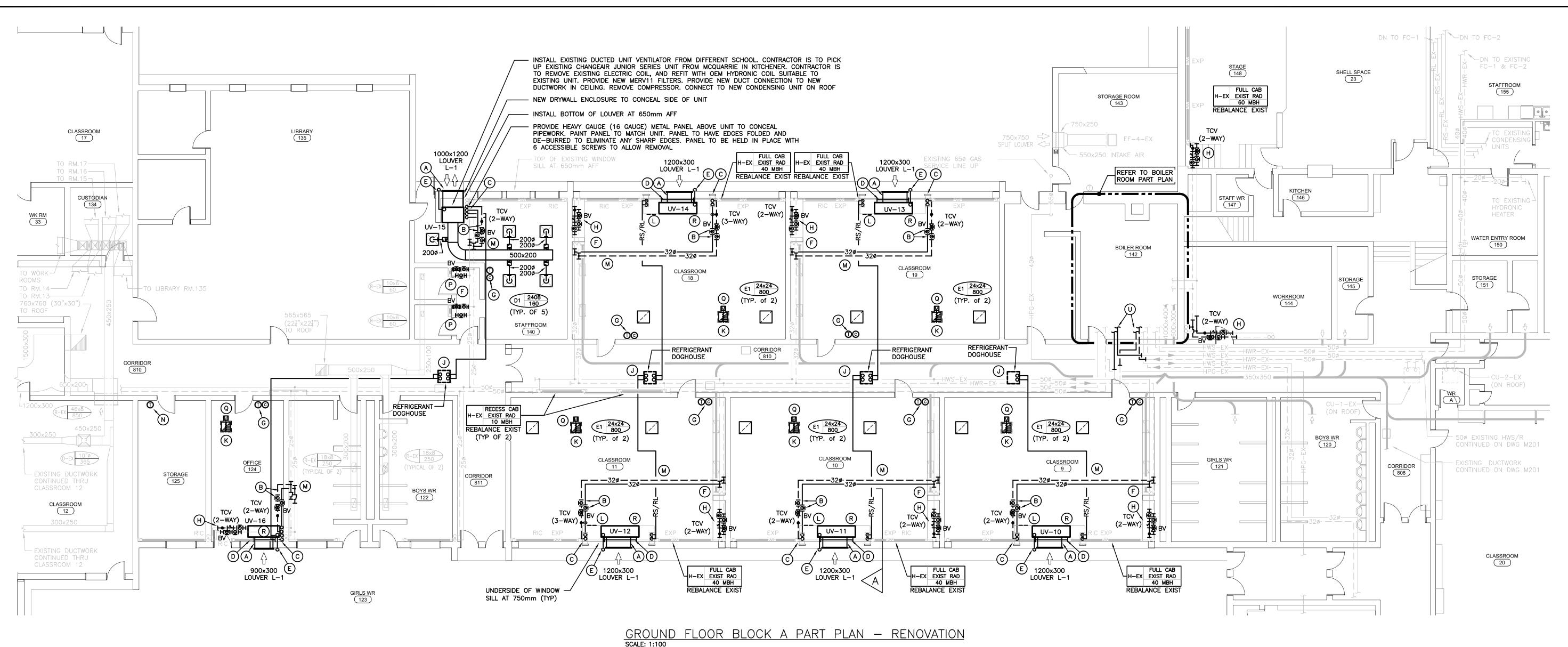


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Project Date Print Date AS NOTED JAN 2022 JAN 2022



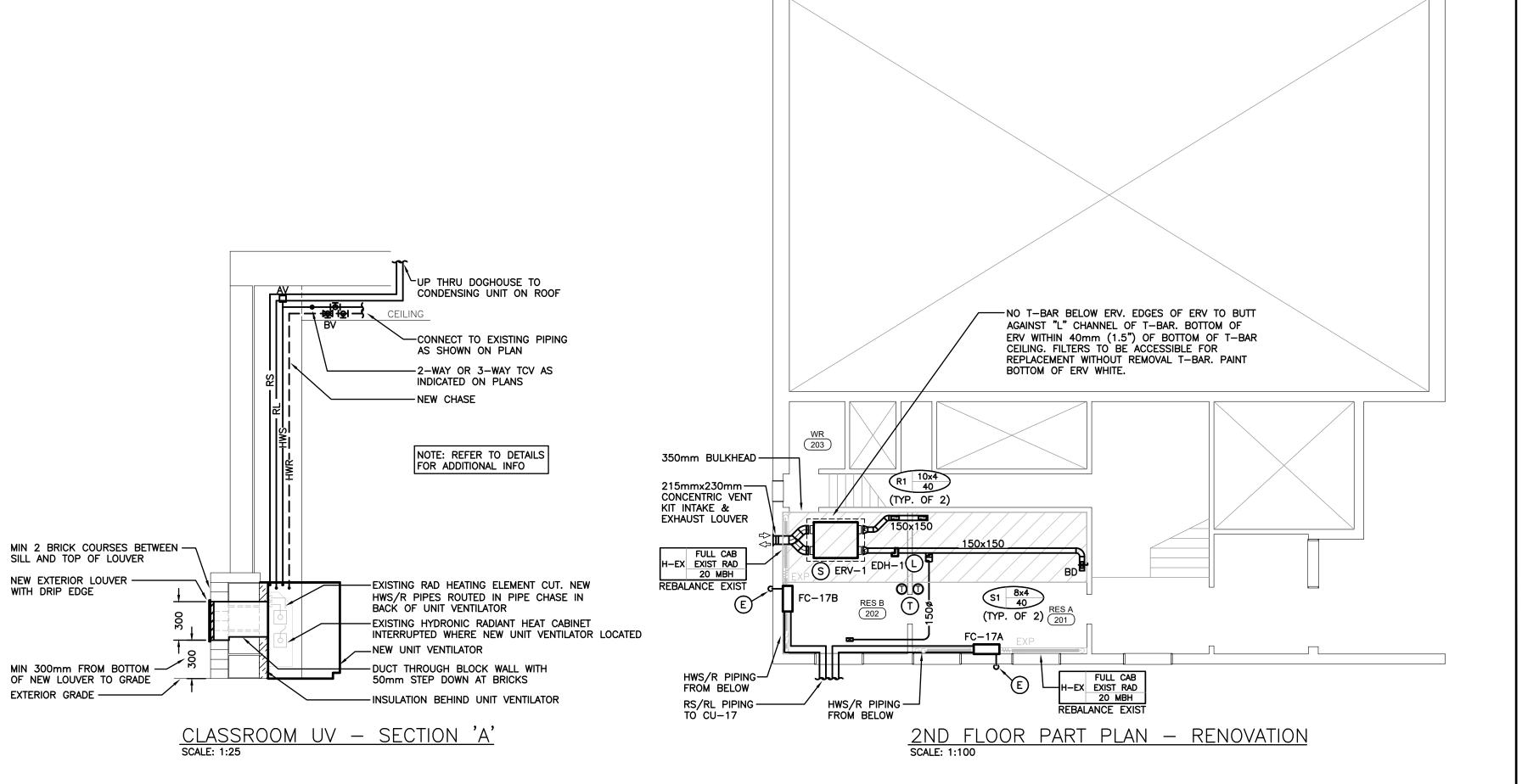
GENERAL RENOVATION NOTES

STRUCTURAL INTEGRITY OF EXTERIOR WALL.

- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF.
- NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF CONSULTANTS & OWNER.
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ± 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

SPECIFIC RENOVATION NOTES

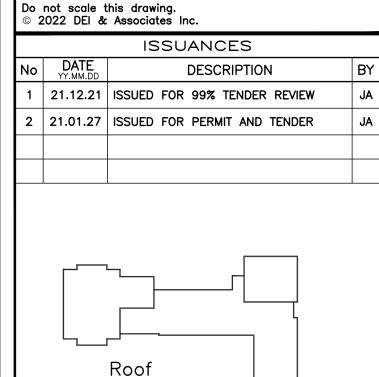
- . NEW INTAKE LOUVER C/W HEAVY DUTY LATTICE GRILLE. PROVIDE NEW OPENING TO SUIT. PROVIDE NEW LINTEL (PER STRUCTURAL).
- B. CONNECT NEW 320 HWS&R PIPING TO NEW UNIT VENTILATOR C/W NEW ISOLATION BALL VALVES, BALANCING VALVE, TCV, UNIONS, & STRAINER. CONNECT NEW RS/RL PIPING TO NEW UNIT VENTILATOR.
- C. NEW HWS&R AND RL&RS PIPING DOWN FROM CEILING TO MILLWORK IN GWB CHASE. ROUTE TO UNIT VENTILATOR. SEE DETAILS.
- D. MODIFY EXISTING RADIANT HEATER PIPING. ROUTE THRU PIPE CHASE IN BACK OF NEW UNIT VENTILATOR. SEE DETAILS.
- E. 25¢ UNIT VENTILATOR CONDENSATE DRAIN ROUTED THRU WALL TO EXTERIOR. SEE DETAILS.
- CONNECT NEW HWS/R PIPING TO EXISTING.
- G. NEW DDC THERMOSTAT AND CO2 SENSOR. CONTROL WIRING TO CEILING IN
- H. PROVIDE NEW ISOLATION VALVES, STRAINER, TCV, BALANCE VALVE AND UNIONS AND RECONNECT TO EXISTING RADIANT HEATER. TCV TO BE 2-WAY OR 3-WAY AS INDICATED ON PLANS.
- RL&RS PIPING UP THRU ROOF IN DOGHOUSE TO CONDENSING UNIT. REFER TO DETAIL. NUMBER OF REFRIGERANT CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. 450x450 INSULATED OPEN END EXHAUST DUCT UP THRU ROOF. CENTRE
- DUCT THRU JOIST BAY. TERMINATE WITH GOOSENECK C/W BIRDSCREEN.
- PROVIDE NEW ACCESS DOOR IN EXISTING CABINET OR NEW ARCHITECTURAL MILLWORK FOR ACCESS TO NEW AIR VENTS. NO ACCESS PANEL REQUIRED IF AIR VENTS ARE ACCESSIBLE THRU PANEL IN NEW UNIT VENTILATOR.
- M. INSTALL HWS/R AND RS/RL PIPING IN CEILING SPACE. HANG FROM STRUCTURE.
- I. REMOVE EXISTING PNEUMATIC THERMOSTAT. CAP PNEUMATIC PIPING. REPLACE WITH NEW DIGITAL THERMOSTAT.
- P. PROVIDE NEW ISOLATION & BALANCE VALVES AND RECONNECT TO EXISTING RADIANT HEATER. NO CONTROL. HEATING RUNS WILD.
- Q. INSULATED MOTORIZED DAMPER. INSTALL ACTUATOR INSIDE DUCT ACCESSIBLE FROM BELOW.
- ADJUST FEET OF UNIT VENTILATOR TO THAT TOP OF VENTILATOR IS FLUSH WITH ADJACENT NEW MILLWORK (BY ARCH). PROVIDE MIN R-10 INSULATION BETWEEN UNIT VENTILATOR & EXISTING UN-INSULATED WALL.
- ERV & EDH INSTALLED ABOVE DROPPED BULKHEAD. MAINTAIN ALL MANUFACTURER RECOMMENDED CLEARANCES.
- NEW DIGITAL THERMOSTAT. CONTROL WIRING TO CEILING IN PVC WIRE MOULD. CONNECT NEW HYDRONIC MAINS TO EXISTING AND ROUTE INTO BOILER ROOM FOR CONNECTION TO NEW PUMP PIPEWORK AS SHOWN.



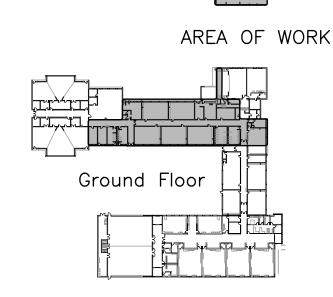
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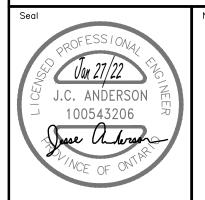






<u>Key Plan</u>





TAIT STREET PS HVAC RENOVATIONS Tender # 7198-RW-22

GROUND & 2ND FLOOR BLOCK A PART PLANS HVAC RENOVATION



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HAD	JA	JA	
Scale	Project Date	Print Date	
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DYNAMIC BALANCING

THE HYDRONIC SYSTEM CONNECTED TO PUMP P-4 IS SHALL BE DYNAMICALLY BALANCED BALANCED. REFER TO SHEET M101 FOR ADDITIONAL DYNAMIC BALANCING REQUIREMENTS.

(ON ROOF) 750mm HIGH MILLWORK TO CONCEAL HWS/HWR AND RS/RL PIPING GIRLS WR H REFRIGERANT FULL CAB DOGHOUSE H-EX EXIST RAD 40 MBH EXIST FFM REBALANCE EXIST H-EX (CEILING) 15 MBH H-EX (CEILING) 15 MBH - MILLWORK BY ARCH REBALANCE EXIS M **Q** LOUVER L-1 (TYP. of 2) VESTIBULE TCV PROVIDE NEW ECM FAN MOTOR 1HP CAPABLE OF (2-WAY) RECEIVING LOW VOLTAGE SIGNAL FOR VARIABLE-SPEED CONTROL. SITE CONFIRM COMPATIBLE MOTOR SIZE AND CONFIGURATION. CONNECT FAN TO BAS PROVIDING LOW VOLTAGE VARIABLE-SPEED CONTROL. ESTABLISH LOW SPEED SETTING AT 30% OF FULL SPEED BY AIR VOLUME. FAN TO INCREASE TO FULL SPEED WHEN BUILDING IS IN FREE COOLING MODE. BALANCE TO 2500 CFM HIGH SPEED. (154) THIS FAN SERVES TCV CLASSROOMS 7 H-EX CONVECTOR LOUVER L-1 30 MBH REBALANCE EXIST CLASSROOM 21 (K)CLASSROOM 22 SEMINAR 153SEMINAR 154 750mm HIGH MILLWORK TO CONCEAL HWS/HWR AND RS/RL PIPING TCV - REFRIGERANT TCV DOGHOUSE (2-WAY) · HWS VALVES BELOW HWR VALVES SHOWN HERE FOR DRAWING CLARITY H-EX EXIST RAD 40 MBH REBALANCE EXIST 1500x300 TCV LOUVER L-1 (2-WAY) E1 24x24 800 © (D (TYP. of 2) LOUVER L-1 H-EX FULL CAB EXIST RAD 40 MBH (K)TCV (2-WAY) (3-WAY)(2-WAY) ' FULL CAB EXIST RAD 40 MBH REBALANCE EXIST 1200x300 - REFRIGERANT K LOUVER L-1 DOGHOUSE CLASSROOM H-EX FULL CAB EXIST RAD 40 MBH 1200x300 LOUVER L-1 TCV (2-WAY) F (3-WAY)

GROUND FLOOR BLOCK B PART PLAN — RENOVATION SCALE: 1:100

CU-2-EX -

- 50¢ EXISTING HWS/R

CONTINUED ON DWG M202

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before

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ISSUANCES

21.12.21 ISSUED FOR 99% TENDER REVIEW

2 21.01.27 ISSUED FOR PERMIT AND TENDER

Roof

Level 2

Ground Floor

<u>Key Plan</u>

Jan 27/22

J.C. ANDERSON 100543206

TAIT STREET PS

GROUND FLOOR

HVAC RENOVATION

HVAC RENOVATIONS

BLOCK B PART PLAN

Consulting Engineers

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Phone: 519-725-3555

Checked by

Project Date

AS NOTED JAN 2022

Website: deiassociates.ca

Approved by

Print Date

JAN 2022

Tender # 7198-RW-22

AREA OF WORK

DESCRIPTION

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to

commencement of the work.

commencement of the work.

meet the required conditions.

consent of the Consultant.
Do not scale this drawing. © 2022 DEI & Associates Inc.

GENERAL RENOVATION NOTES

- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF. NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF CONSULTANTS & OWNER.
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF EXTERIOR WALL.
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ±
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH

BRIDGING FOR INSTALLATION OF DUCTWORK.

- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY
- G. NEW DDC THERMOSTAT AND CO2 SENSOR. CONTROL WIRING TO CEILING IN 10'-0" IN EACH DIRECTION. H. PROVIDE NEW ISOLATION VALVES, STRAINER, TCV, BALANCE VALVE AND MILLWORK AND ARCHITECTURAL DETAILS. UNIONS AND RECONNECT TO EXISTING RADIANT HEATER. TCV TO BE 2-WAY OR 3-WAY AS INDICATED ON PLANS. PROVIDE NEW ACCESS DOOR IN
 - RL&RS PIPING UP THRU ROOF IN DOGHOUSE TO CONDENSING UNIT. REFER TO DETAIL. NUMBER OF REFRIGERANT CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

SPECIFIC RENOVATION NOTES

CHASE. ROUTE TO UNIT VENTILATOR. SEE DETAILS.

CHASE IS UNINSULATED. SEE DETAILS.

CONNECT NEW HWS/R PIPING TO EXISTING.

SEE DETAILS.

A. NEW INTAKE LOUVER C/W HEAVY DUTY LATTICE GRILLE. PROVIDE NEW

CONNECT NEW 320 HWS&R PIPING TO NEW UNIT VENTILATOR C/W NEW

ISOLATION BALL VALVES, BALANCING VALVE, TCV, UNIONS, & STRAINER. CONNECT NEW RS/RL PIPING TO NEW UNIT VENTILATOR.

D. MODIFY EXISTING RADIANT HEATER PIPING. ROUTE THRU INSULATED PIPE

CHASE IN BACK OF NEW UNIT VENTILATOR. PROVIDE PIPE INSULATION IF

E. 25¢ UNIT VENTILATOR CONDENSATE DRAIN ROUTED THRU WALL TO EXTERIOR.

RADIANT HEATER COVER IF NONE EXISTING, OR IN SMALL SEMINAR ROOMS.

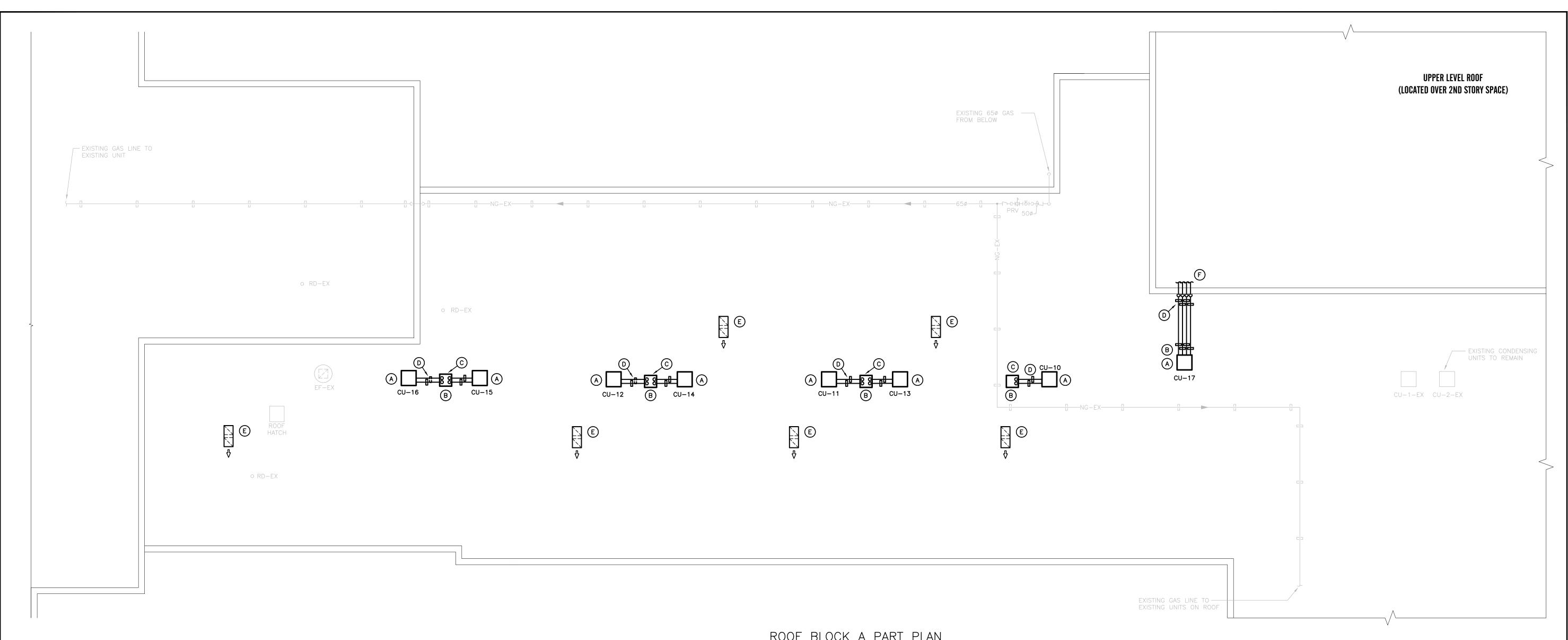
. NEW HWS&R AND RL&RS PIPING DOWN FROM CEILING TO MILLWORK IN GWB

OPENING TO SUIT. PROVIDE NEW LINTEL (PER STRUCTURAL).

- 450x450 INSULATED OPEN END EXHAUST DUCT UP THRU ROOF. CENTRE DUCT THRU JOIST BAY. TERMINATE WITH GOOSENECK C/W BIRDSCREEN.
- PROVIDE NEW ACCESS DOOR IN EXISTING CABINET OR NEW ARCHITECTURAL MILLWORK FOR ACCESS TO NEW AIR VENTS. NO ACCESS PANEL REQUIRED IF AIR VENTS ARE ACCESSIBLE THRU PANEL IN NEW UNIT VENTILATOR.
- M. INSTALL HWS/R AND RS/RL PIPING IN CEILING SPACE. HANG FROM STRUCTURE.
- N. NEW DIFFERENTIAL PRESSURE SENSOR FOR CONTROL OF P-4.
- . PROVIDE NEW ISOLATION AND BALANCE VALVES AT CEILING AND CONNECT TO EXISTING CABINET UNIT HEATER. HEAT CONTROL BY FAN OPERATION.
- . INSULATED MOTORIZED DAMPER. INSTALL ACTUATOR INSIDE DUCT ACCESSIBLE
- R. UNIT VENTILATOR OFFSET FROM WALL TO AVOID EXISTING CONCRETE WINDOW SHELF. PROVIDE MIN R-10 INSULATION BETWEEN UNIT VENTILATOR & EXISTING UN-INSULATED WALL. ADJUST FEET OF UNIT VENTILATOR SO THAT TOP OF VENTILATOR IS FLUSH WITH WINDOW SHELF.

DYNAMIC BALANCING

THE HYDRONIC SYSTEM CONNECTED TO PUMP P-4 IS SHALL BE DYNAMICALLY BALANCED BALANCED. REFER TO SHEET M101 FOR ADDITIONAL DYNAMIC BALANCING REQUIREMENTS.



ROOF BLOCK A PART PLAN SCALE: 1:100

GENERAL DEMOLITION NOTES

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- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS \pm 10'-0" IN EACH DIRECTION.
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- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

SPECIFIC RENOVATION NOTES

- A. CONDENSING UNIT ON CONCRETE PAVER/INSULATION ON ROOF. ENSURE CONDENSING UNITS ARE INSTALLED MIN. 1000mm FROM ROOF VALLEY.
- B. GENERAL CONTRACTOR TO PATCH, REPAIR MAKE ROOFING WEATHERPROOF AND ENSURE MATERIALS USED ARE COMPATIBLE WITH EXISTING.
- C. RS/RL PIPING DN IN DOGHOUSE & RUN ALONG ROOF TO NEW CONDENSING UNIT. ENSURE DOGHOUSE IS INSTALLED MIN. 1000mm FROM ROOF VALLEY. NUMBER OF CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS.
- D. PROVIDE PIPE SUPPORT.
- 450x450 EXHAUST GOOSENECK C/W BIRDSCREEN. REFER TO DETAIL. GOOSENECK TERMINATION TO POINT IN EAST-FACING DIRECTION.
- RS/RL PIPING FROM PENTHOUSE FAN COIL & RUN ALONG ROOF TO NEW CONDENSING UNIT. NUMBER OF CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SECOND FLOOR 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.

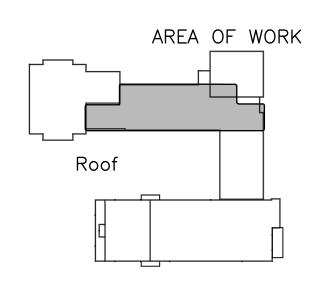
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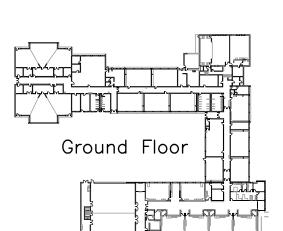
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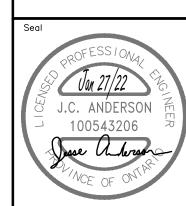


Level 2



<u>Key Plan</u>





TAIT STREET PS HVAC RENOVATIONS Tender # 7198-RW-22

ROOF BLOCK A PART PLAN HEATING & VENTILATION RENOVATION



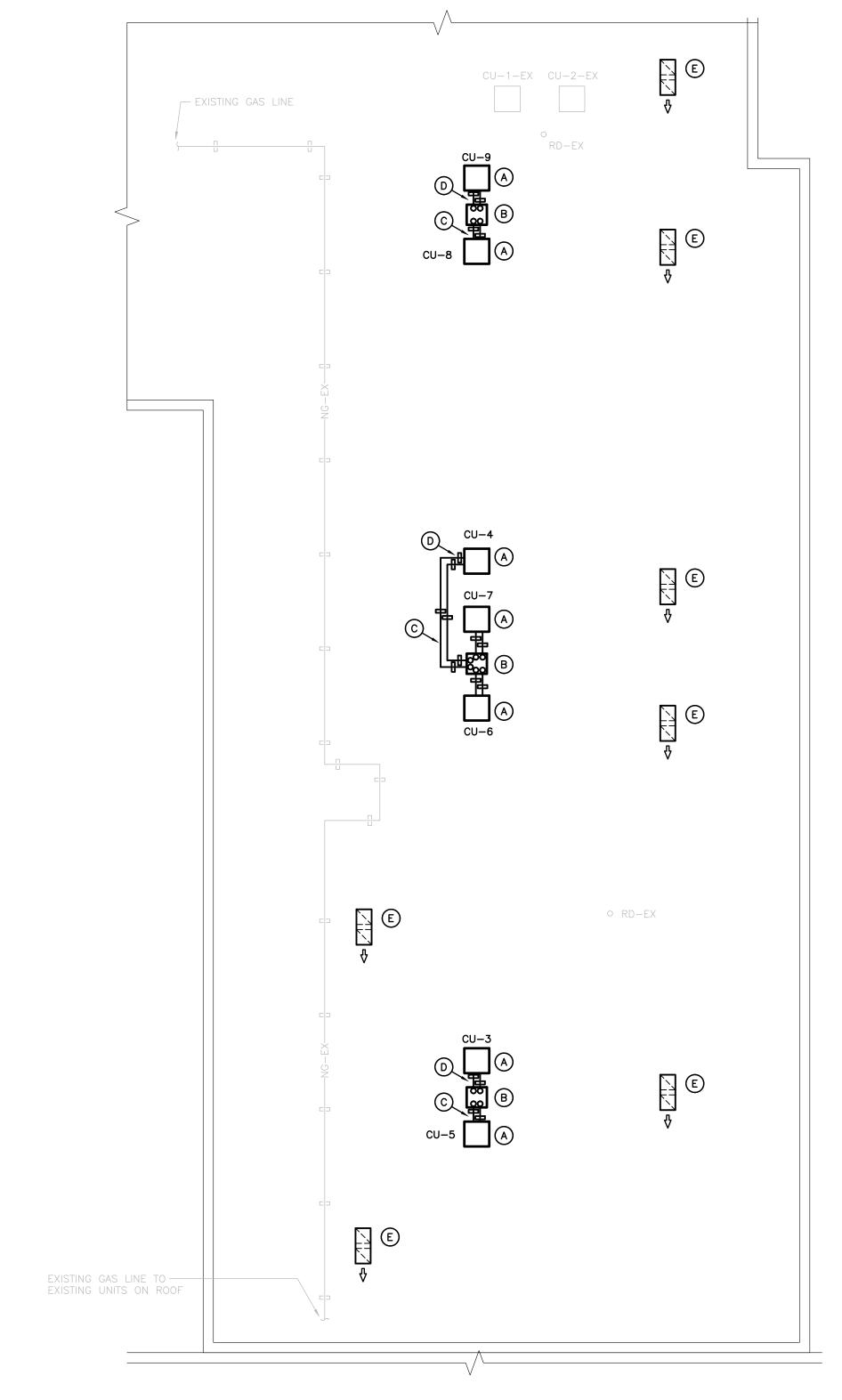
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Website: deiassociates.ca Checked by Approved by

Project Date AS NOTED JAN 2022 JAN 2022

21047



ROOF BLOCK B PART PLAN SCALE: 1:100

GENERAL DEMOLITION NOTES

- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF.
 NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF CONSULTANTS & OWNER.
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF EXTERIOR WALL.
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EVICTING DUCTWOOK AD INCENT TO NEW CONNECTIONS
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ± 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

SPECIFIC RENOVATION NOTES

- A. CONDENSING UNIT ON ELEVATED ZERO—PENETRATION STAND ON ROOF.
 ENSURE CONDENSING UNITS ARE INSTALLED MIN. 1000mm FROM ROOF
- B. GENERAL CONTRACTOR TO PATCH, REPAIR MAKE ROOFING WEATHERPROOF AND ENSURE MATERIALS USED ARE COMPATIBLE WITH EXISTING.
- C. RS/RL PIPING DN IN DOGHOUSE & RUN ALONG ROOF TO NEW CONDENSING UNIT. ENSURE DOGHOUSE IS INSTALLED MIN. 1000mm FROM ROOF VALLEY. NUMBER OF CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS.
- D. PROVIDE PIPE SUPPORT.
- E. 450x450 EXHAUST GOOSENECK C/W BIRDSCREEN. REFER TO DETAIL. GOOSENECK TERMINATION TO POINT IN EAST—FACING DIRECTION.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

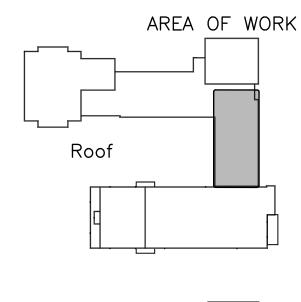
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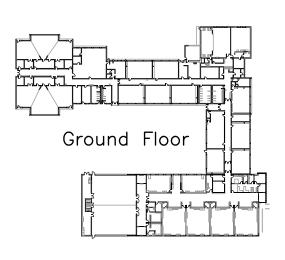
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2	21.01.27	ISSUED FOR PERMIT AND TENDER	J.	
		AREA OF WORK		

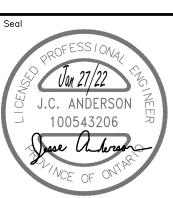


Level 2



<u>Key Plan</u>





Project N True No

Project

TAIT STREET PS
HVAC RENOVATIONS
Tender # 7198-RW-22

ROOF BLOCK A
PART PLAN HEATING &
VENTILATION RENOVATION



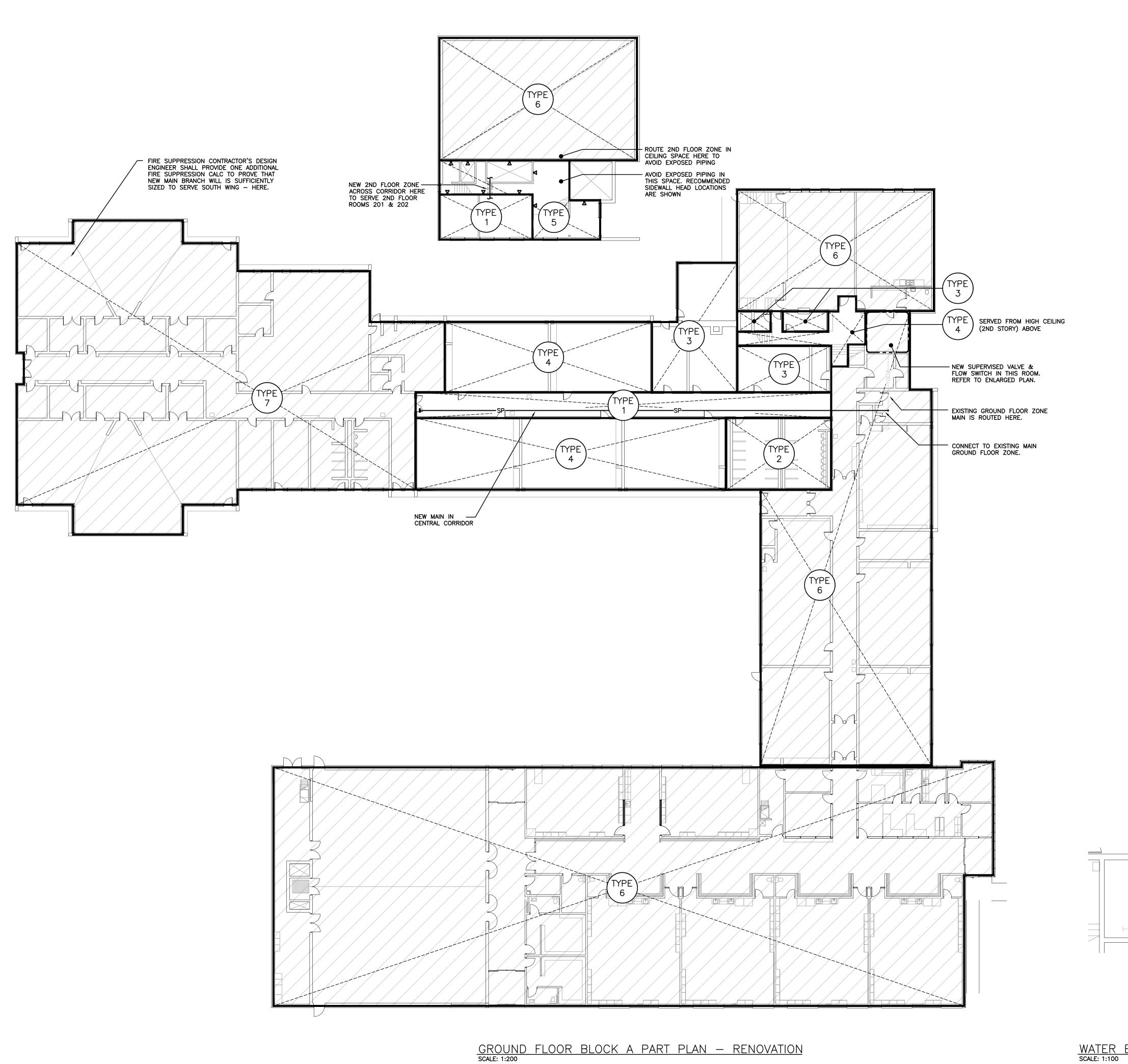
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HAD	JA	JA
Scale	Project Date	Print Date
AS NOTED	JAN 2022	JAN 2022

1047

M402



GENERAL SPRINKLER NOTES

- A. SUBMIT PRELIMINARY DESIGN & HYDRAULIC CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER, AND MANUFACTURERS' PRODUCT SHEETS FOR SHOP DRAWING SUBMISSION AS SPECIFIED PRIOR TO COMMENCING WORK. MARKED UP TENDER DRAWINGS ARE UNACCEPTABLE FOR SHOP DRAWINGS.
- B. ENSURE DESIGN MEETS OR EXCEEDS PRESENT NFPA 13 & 14 STANDARDS. ENSURE SPRINKLER & STANDPIPE SYSTEMS ARE INSTALLED TO NFPA 13 & 14 STANDARDS. UPON COMPLETION, SPRINKLER CONTRACTOR TO PROVIDE REPRODUCIBLE DRAWING (AT 1:100 SCALE) AND HYDRAULIC CALCULATIONS OF AS—BUILT CONDITION.
- C. CONTRACTOR'S 'PROFESSIONAL ENGINEER' TO PROVIDE O.B.C. AND NFPA REQUIRED INSPECTION AND CERTIFICATION.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
- E. PROVIDE SPRINKLER HEAD TYPES AS FOLLOWS:
- A. PROVIDE UPRIGHT HEADS WITHIN 300mm OF EXPOSED DECK THROUGHOUT EXPOSED STRUCTURE AREAS. PROVIDE HEAD GUARDS IN MECH/ELEC RM, AREAS WHERE HEADS ARE BELOW 2.4m & STORAGE ROOMS.

 B. PROVIDE CONCEALED HEADS IN ALL AREAS WITH A SUSPENDED CEILING.
- F. FINAL NUMBER AND LOCATION OF SPRINKLER HEADS TO BE DETERMINED BY CONTRACTOR'S HYDRAULIC CALCULATIONS AND APPROVED DRAWINGS.
- G. SPRINKLER PIPING TO BE COORDINATED WITH OTHER
- H. PROVIDE SPRINKLERS IN CONCEALED SPACES AS REQUIRED BY NFPA 13.

SERVICES PRIOR TO INSTALLATION.

I. LIMITED COMBUSTIBLE STRUCTURE ABOVE T-BAR CEILINGS. SPRINKLERS NOT REQUIRED ABOVE T-BAR CFILINGS.

SPECIFIC SPRINKLER NOTES

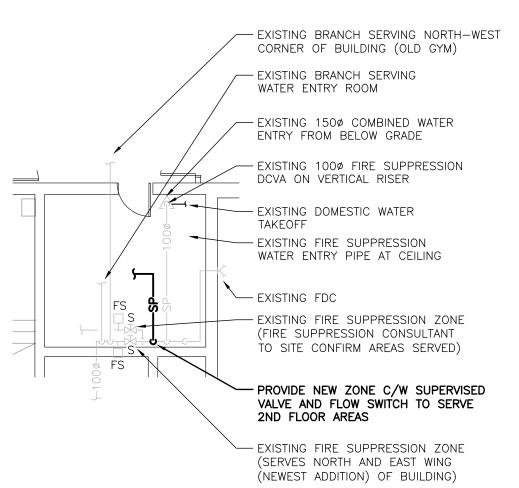
- 1. EXISTING FIRE SUPPRESSION WATER ENTRY ROOM.
- 2. EXISTING 100Ø FIRE SUPPRESSION MAIN SERVING NORTH AND EAST WINGS OF SCHOOL.

SPRINKLER SCHEDULE			
Туре	Sprinkler Head	Colour	Remarks
1	CONCEALED PENDENT	WHITE	T-BAR CEILING
2	CONCEALED PENDENT	WHITE	GWB CEILIGN
3	EXPOSED UPRIGHT WITH GUARD	CHROME	OPEN CEILING
4	RECESSED PENDENT	WHITE	T-BAR CEILING
5	SIDEWALL	CHROME	THRU WALL FROM ADJACENT CEILING SPACE
6 EXISTING SPRINKLERS. NO NEW SCOPE IN THIS AREA.		SCOPE IN THIS AREA.	

ADDITIONAL CLAC

FIRE SUPPRESSION CONTRACTOR'S DESIGN ENGINEER SHALL PROVIDE ONE ADDITIONAL FIRE SUPPRESSION CALC TO PROVE THAT NEW MAIN BRANCH WILL IS SUFFICIENTLY SIZED TO SERVE SOUTH WING.

7 NO EXISTING SPRINKLERS. NO CURRENT SCOPE TO ADD SPRINKLERS IN THIS AREA.



WATER ENTRY ROOM ENLARGED PLAN SCALE: 1:100

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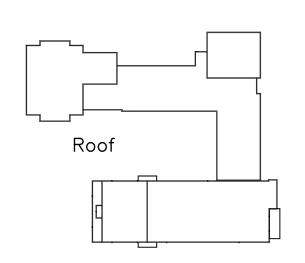
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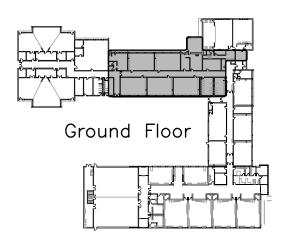
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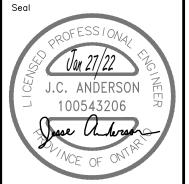
Level 2

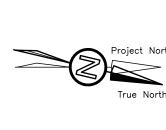
AREA OF WORK



<u>Key Plan</u>







Project

TAIT STREET PS
HVAC RENOVATIONS
Tender # 7198-RW-22

GROUND & 2ND FLOOR FIRE SUPPRESSION PLAN



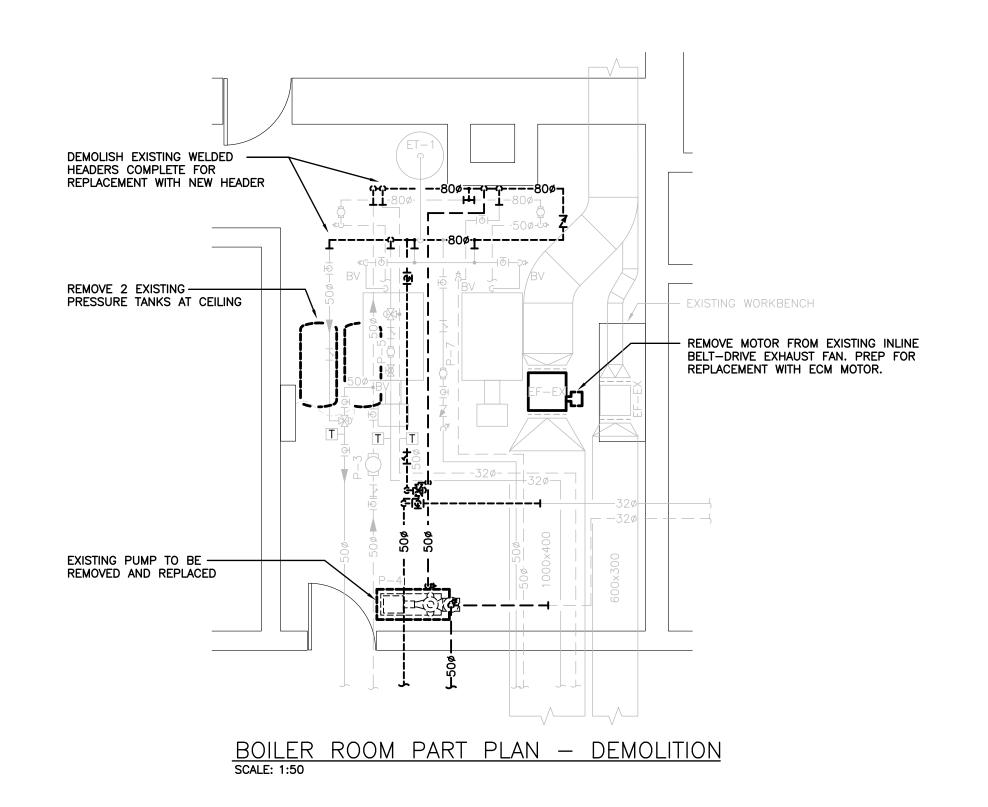
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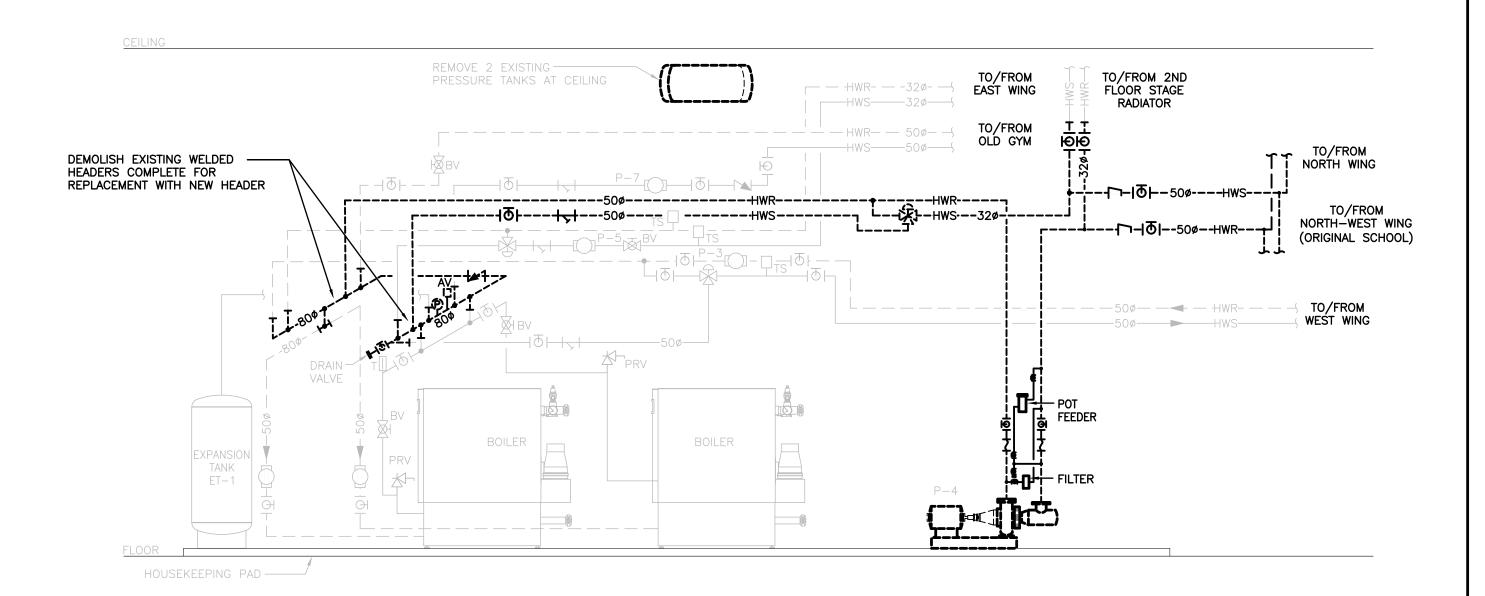
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	HAD	JA	JA
	Scale	Project Date	Print Date
	AS NOTED	JAN 2022	JAN 2022

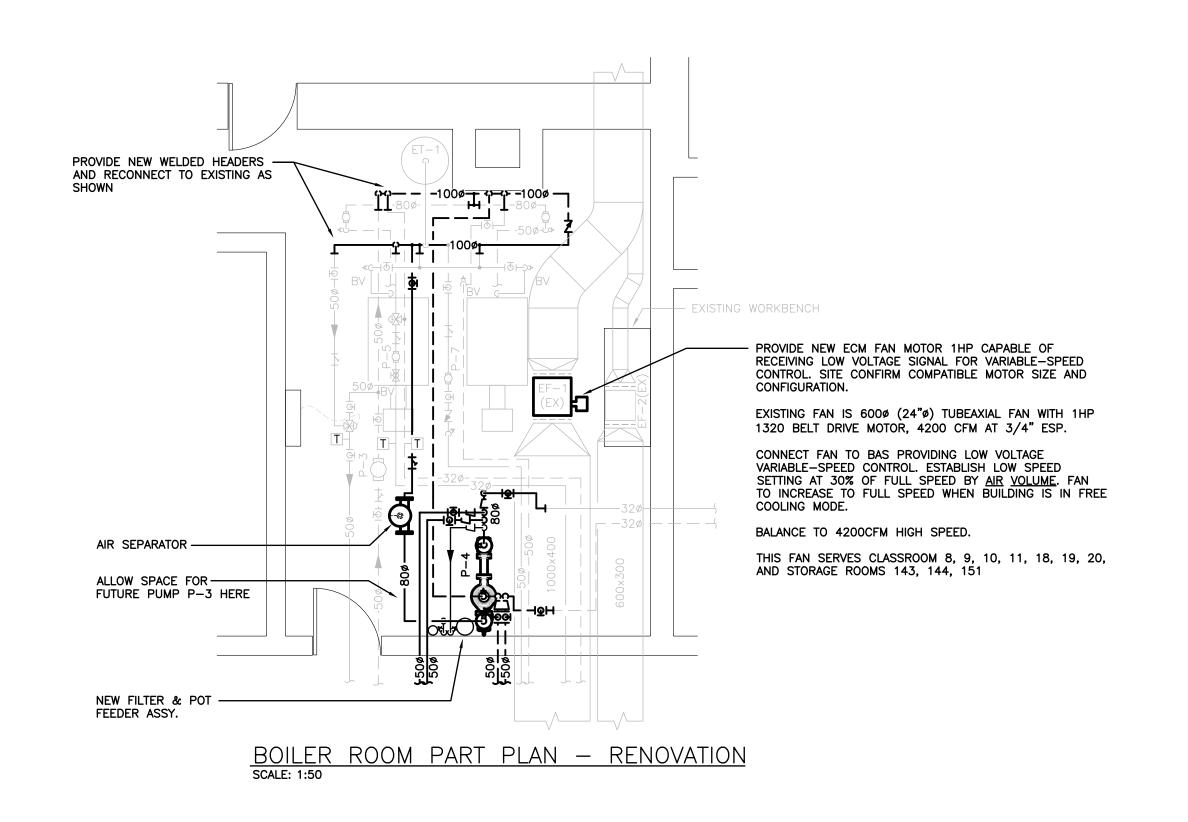
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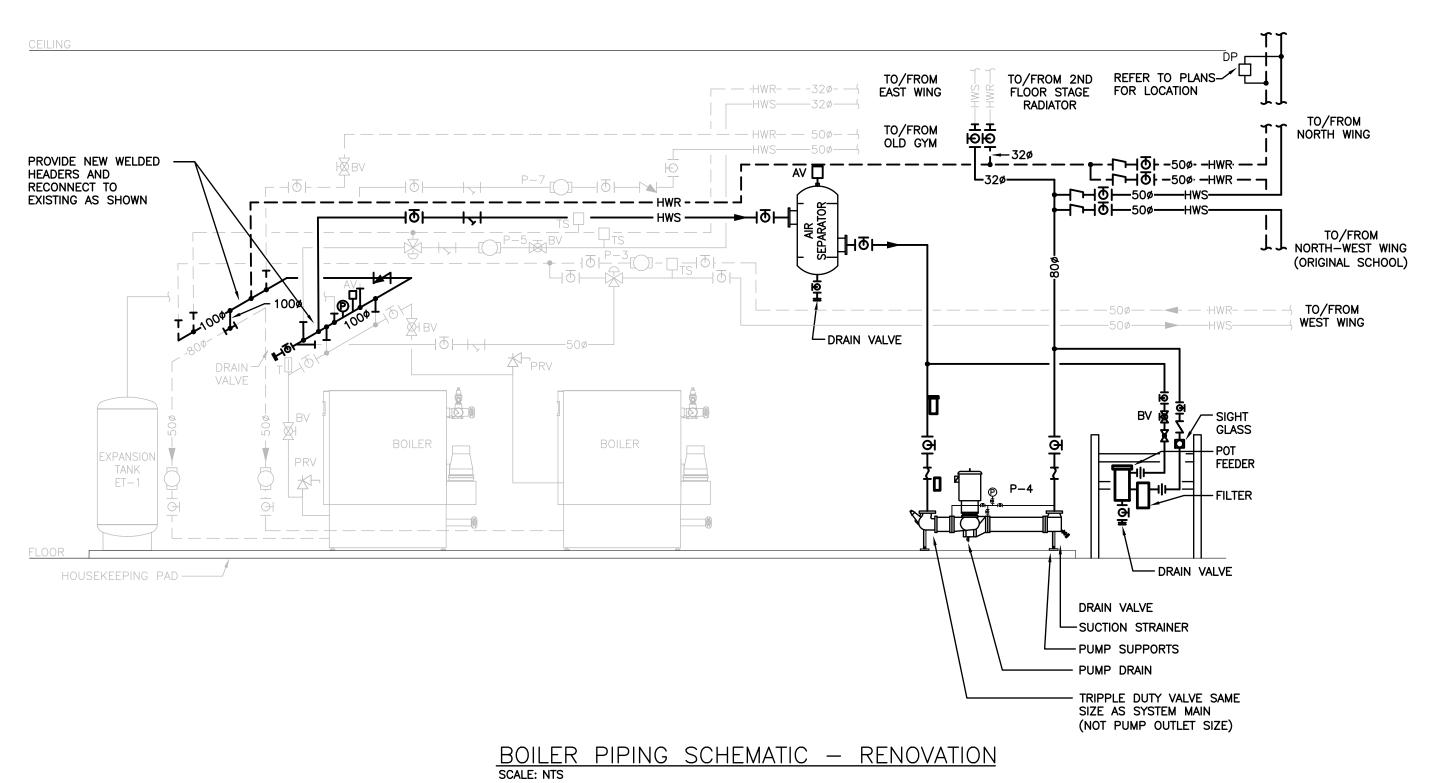
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BOILER PIPING SCHEMATIC — DEMOLITION SCALE: NTS





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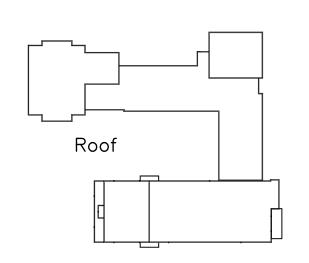
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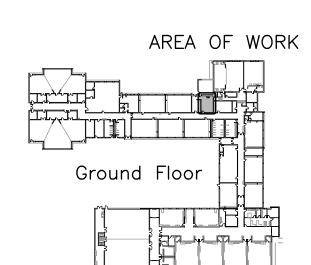
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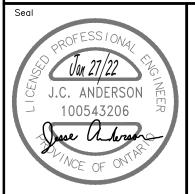


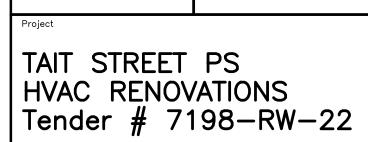
Level 2



<u>Key Plan</u>







BOILER ROOM DEMOLITION & RENOVATION



Consulting Engineers

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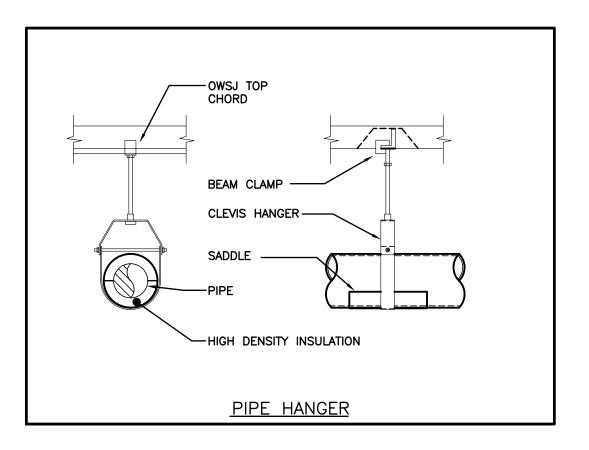
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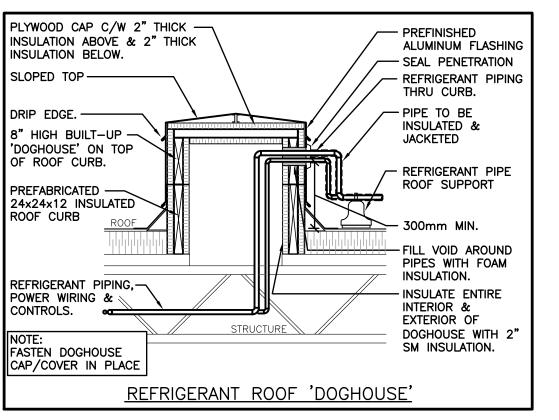
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	AS NOTED	JAN 2022	JAN 2022	

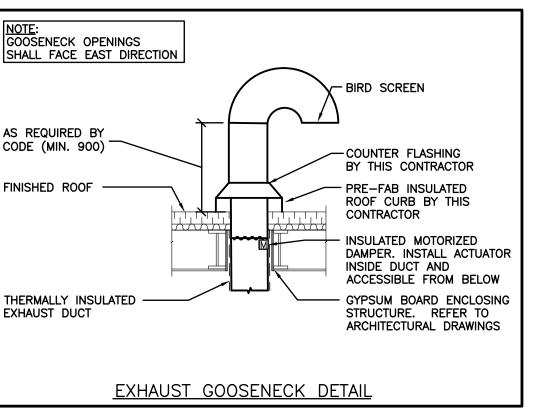
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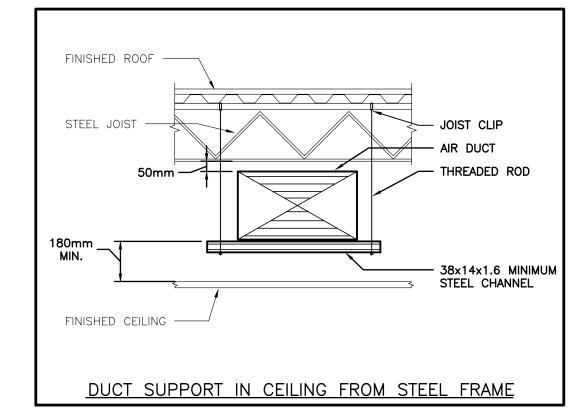
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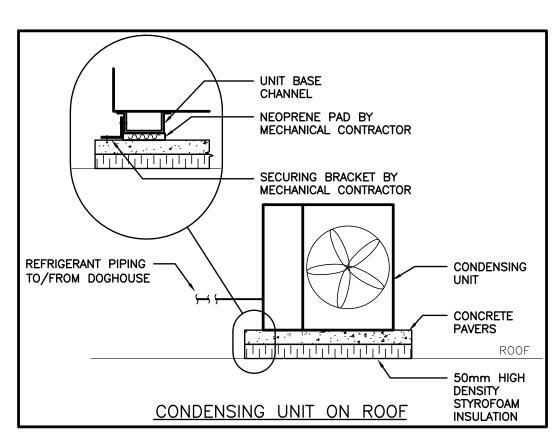
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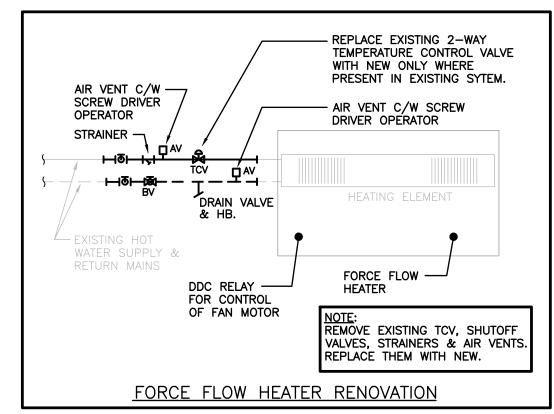


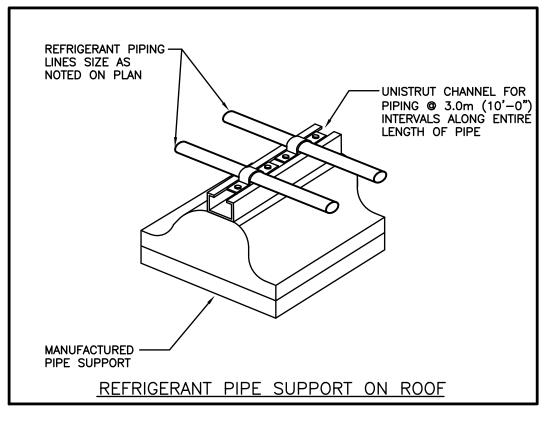


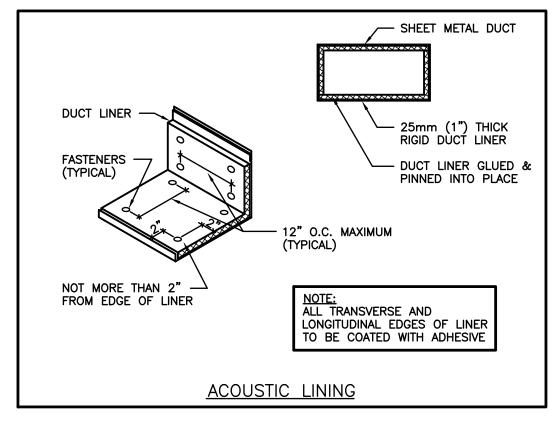


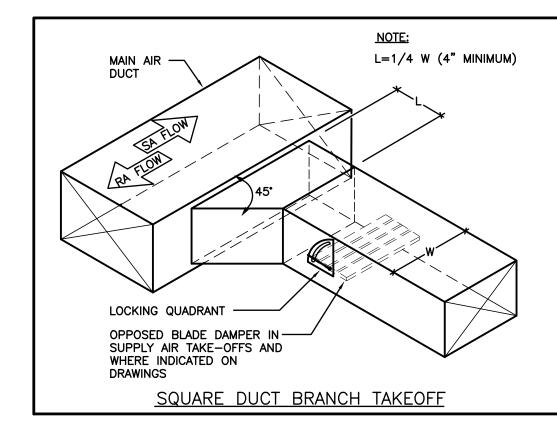


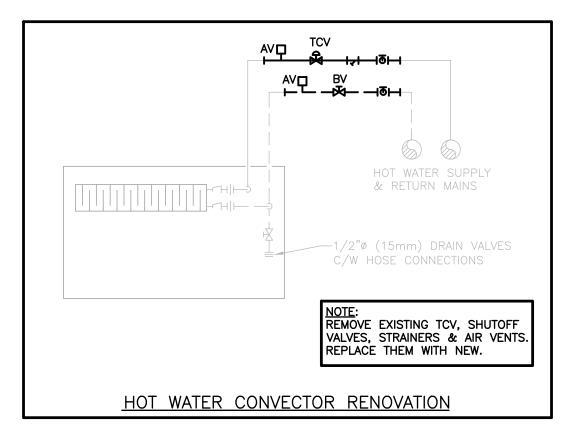


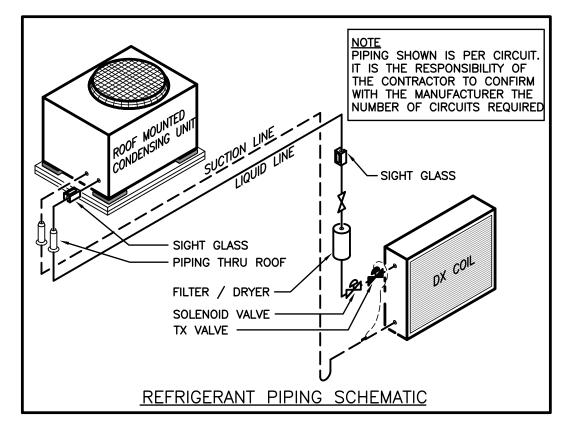


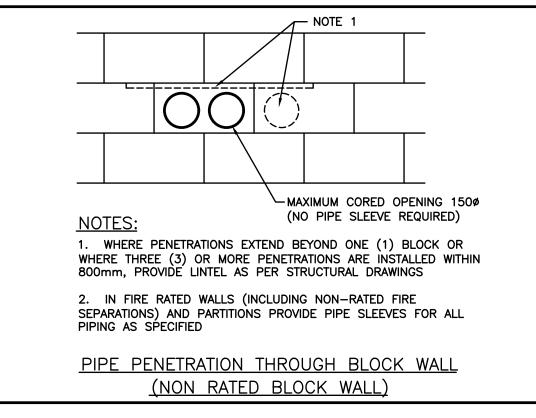


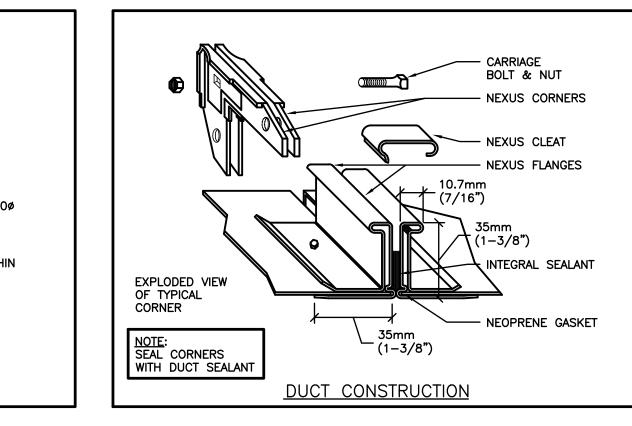


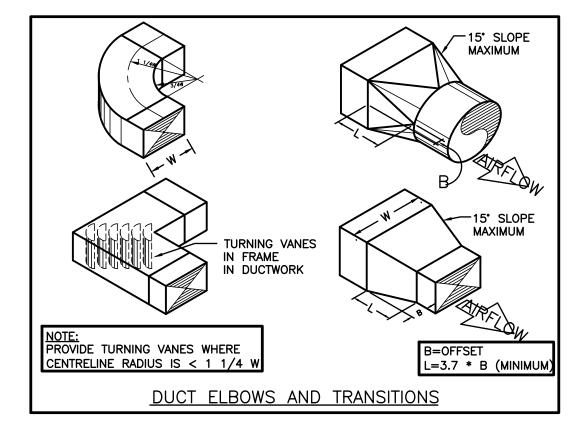


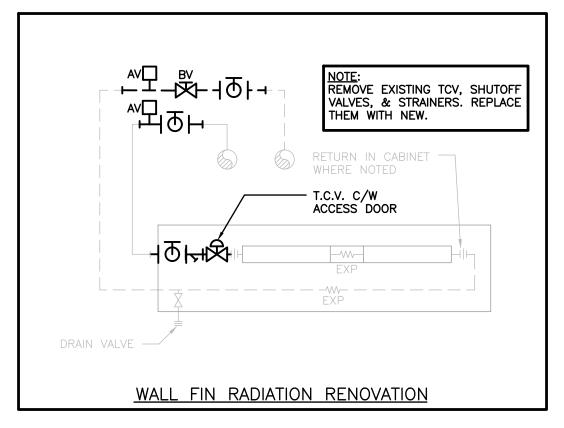


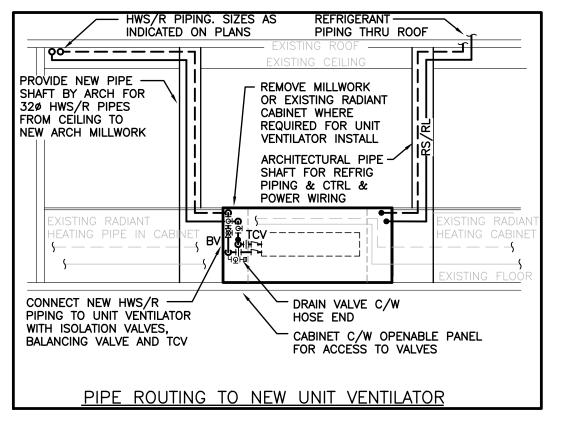


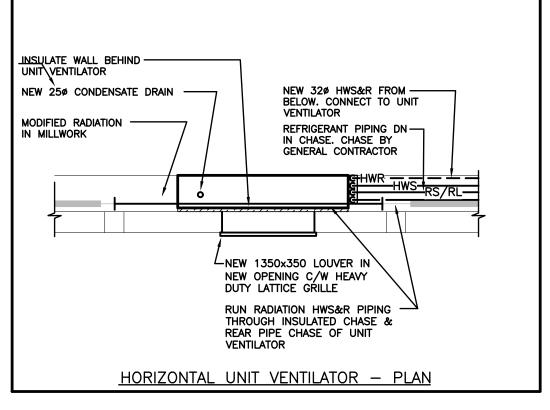


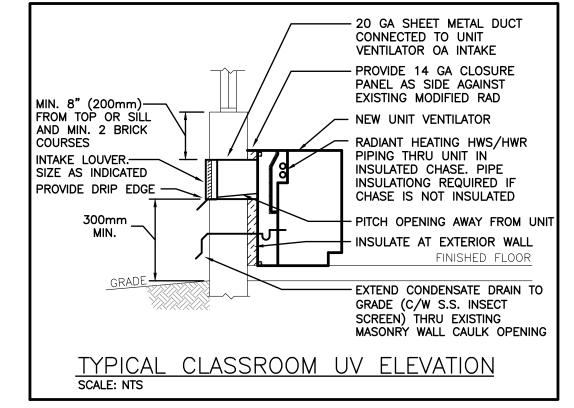


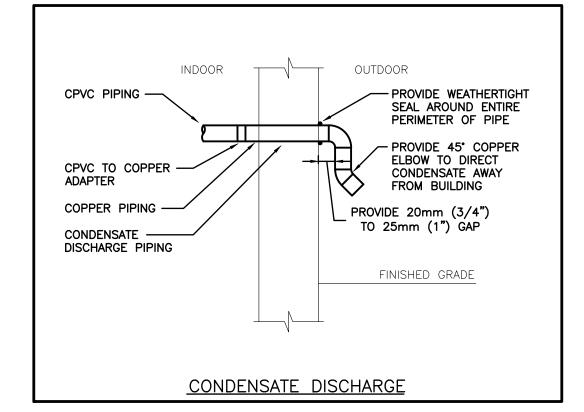


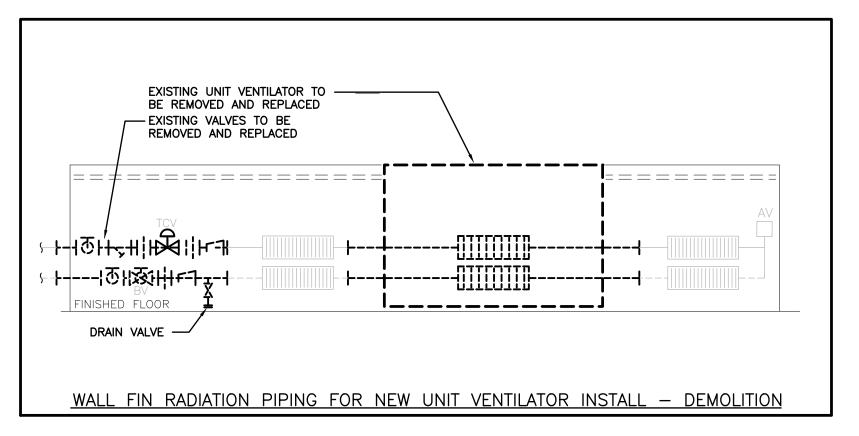


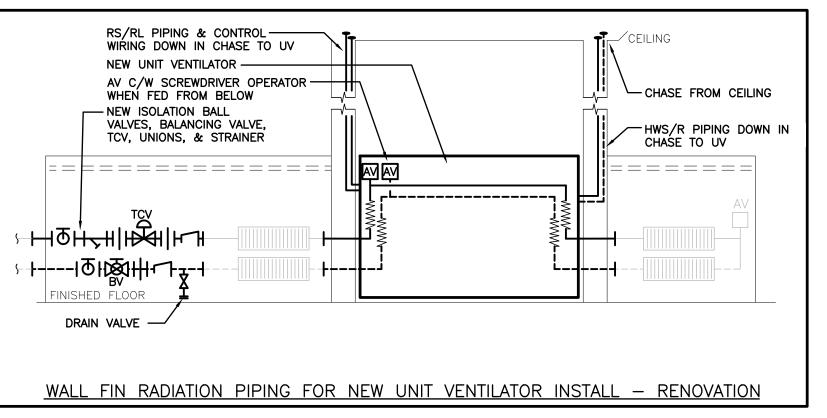


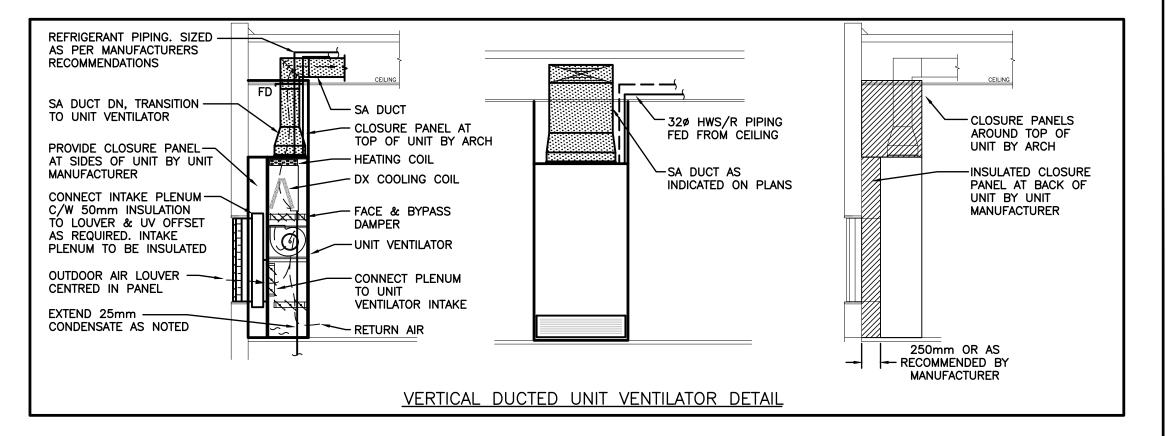


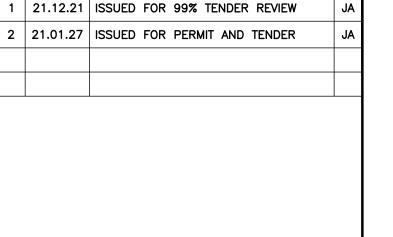












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DESCRIPTION

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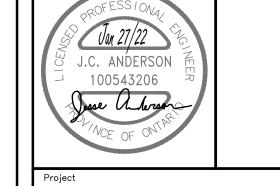
meet the required conditions.

consent of the Consultant.

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TAIT STREET PS
HVAC RENOVATIONS
Tender # 7198-RW-22

MECHANICAL DETAILS & SECTIONS



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by	Checked by	Approved by		
)	JA	JA		
	Project Date	Print Date		

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 Project Date
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 AS NOTED
 JAN 2022
 JAN 2022

 Project No.
 Drawing No.

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