

UNIT VENTILATOR SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Capacity		Min. O.A.	SP in.	Size	Heating				Cooling				Electrical			Manufacturer	Model	Remarks	
		tons	cfm	(cfm)	wc	hp	Medium	Coil Rows	EWTF °F	LWTF °F	Cap. MBH	GPM	Medium	Total Cap. MBH	Sens. Cap. MBH	Voltage	MCA				MOCp
UV-9	HORIZONTAL UNIT VENTILATOR	2.5	1000	115	0.0	1/4	WATER	2	150	130	79.3	7.9	DX	36.3	23.4	120/1/60	4.5	15	TRANE DAIKIN	VUVE1000 UAVS9H10	3-SPEED ECM FAN MOTOR, FACE & BYPASS HEATING COIL, 2-WAY VALVE* AT HEATING COIL, 250mm INSULATED REAR PIPE CHASE, TOP SUPPLY DISCHARGE GRILLE, DIGITAL READY CONTROLS PACKAGE, REAR OA INTAKE DUCT COLLAR, TWO (2) FULL-DEPTH END PANELS (CUT-OUTS TO BE COMPLETED ON SITE TO SUIT DRAFTSTOP DOWNDRAFT PROTECTION FEATURE & PIPING TUNNEL) C/W MOUNTING HARDWARE & KICKPLATE (CONFIRM CUT-OUTS WITH MANUFACTURER), BOTTOM FRONT RA INLET GRILLE & DRAFTSTOP DOWNDRAFT PROTECTION RA INLET, UNIT MOUNTED DISCONNECT (INSIDE ENCLOSURE), HEATING COIL FREEZESTAT (FACTORY INSTALLED & WIRED), ADJUSTABLE LEG LEVELLERS, PUTTY BEIGE CABINET COLOUR (CONFIRM COLOUR WITH ARCH PRIOR TO ORDERING), TAMPER-RESISTANT FASTENERS ON ALL ACCESS DOORS, REPLACEMENT FILTERS C/W ONE EXTRA SET, SECONDARY OVERFLOW DRAIN CONNECTION FOR CONDENSATE PAN, 50mm BASE TO RAISE UNIT, SET FAN TO MEDIUM SPEED. PROVIDE C/W CONDENSATE PUMP. *UV-11 HAS 3-WAY CONTROL VALVE AT HEATING COIL.
UV-10	HORIZONTAL UNIT VENTILATOR	2.5	1000	115	0.0	1/4	WATER	2	150	130	79.3	7.9	DX	36.3	23.4	120/1/60	4.5	15	TRANE DAIKIN	VUVE1000 UAVS9H10	
UV-11	HORIZONTAL UNIT VENTILATOR	2.5	1000	115	0.0	1/4	WATER	2	150	130	79.3*	7.9	DX	36.3	23.4	120/1/60	4.5	15	TRANE DAIKIN	VUVE1000 UAVS9H10	
UV-12	HORIZONTAL UNIT VENTILATOR	2.5	1000	115	0.0	1/4	WATER	2	150	130	79.3	7.9	DX	36.3	23.4	120/1/60	4.5	15	TRANE DAIKIN	VUVE1000 UAVS9H10	
UV-13	HORIZONTAL UNIT VENTILATOR	2.5	1000	115	0.0	1/4	WATER	2	150	130	79.3	7.9	DX	36.3	23.4	120/1/60	4.5	15	TRANE DAIKIN	VUVE1000 UAVS9H10	
UV-14	HORIZONTAL UNIT VENTILATOR	2.5	1000	115	0.0	1/4	WATER	2	150	130	79.3	7.9	DX	36.3	23.4	120/1/60	4.5	15	TRANE DAIKIN	VUVE1000 UAVS9H10	
GENERAL UNIT VENTILATOR NOTES: 1. ACCEPTABLE MANUFACTURERS: DAIKIN, CHANGE AIR, ENGINEERED AIR, AIRDALE, TRANE																					

HEAT PUMP UNIT SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Tons	Capacity MBH	Compressor			Refrig.	No. of Cond. Fans	Electrical			Manufacturer	Model	Remarks
				Type	No.	No. Stages			Voltage	MCA	MOCp			
HP-9	OUTDOOR ROOF MOUNTED	2.5	36	SCROLL	1	2	R454A	1	208/3/60	16.6	25	TRANE DAIKIN	5TTA3036A3 DH4SEA3010	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS. CONNECT TO UV-9.
HP-10	OUTDOOR ROOF MOUNTED	2.5	36	SCROLL	1	2	R454A	1	208/3/60	16.6	25	TRANE DAIKIN	5TTA3036A3 DH4SEA3010	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS. CONNECT TO UV-10.
HP-11	OUTDOOR ROOF MOUNTED	2.5	36	SCROLL	1	2	R454A	1	208/3/60	16.6	25	TRANE DAIKIN	5TTA3036A3 DH4SEA3010	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS. CONNECT TO UV-11.
HP-12	OUTDOOR ROOF MOUNTED	2.5	36	SCROLL	1	2	R454A	1	208/3/60	16.6	25	TRANE DAIKIN	5TTA3036A3 DH4SEA3010	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS. CONNECT TO UV-12.
HP-13	OUTDOOR ROOF MOUNTED	2.5	36	SCROLL	1	2	R454A	1	208/3/60	16.6	25	TRANE DAIKIN	5TTA3036A3 DH4SEA3010	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS. CONNECT TO UV-13.
HP-14	OUTDOOR ROOF MOUNTED	2.5	36	SCROLL	1	2	R454A	1	208/3/60	16.6	25	TRANE DAIKIN	5TTA3036A3 DH4SEA3010	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS. CONNECT TO UV-14.
GENERAL CONDENSING UNIT NOTES: 1. CONDENSING UNIT SUCTION TEMPERATURE MUST BE COORDINATED WITH APPLICABLE FAN COIL UNIT PER MANUFACTURER'S RECOMMENDATIONS.														

- GENERAL NOTES
- A.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.

B.

CONTRACTOR TO KEEP CURRENT AS-BUILT REDLINES ON SITE AS THE PROJECT PROGRESSES. PROVIDE COMPLETE AS-BUILT DRAWINGS TO CONSULTANT BEFORE SUBSTANTIAL COMPLETION FOR CONVERSION TO CAD.

C.

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.

D.

WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.

E.

CO-ORDINATE WITH THE GENERAL CONTRACTOR ANY OWSJ BRIDGING/CROSS BRACING RELOCATION OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.

F.

CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED.

G.

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:

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.

MECHANICAL LEGEND

Item

Description

Item

Description

ITEM TO BE REMOVED

AD

ACCESS DOOR

CUT EXISTING & CONNECT NEW PIPING

SUPPLY AIR DUCT

FLOW DIRECTION

RETURN/EXHAUST AIR DUCT

HWS

HEATING WATER SUPPLY

FD

FIRE DAMPER

HWR

HEATING WATER RETURN

BD

BALANCING DAMPER

RL

REFRIGERANT LIQUID

THERMOSTAT (WITH GUARD WHERE INDICATED)

RS

REFRIGERANT SUCTION

CO2 SENSOR (WALL MOUNT, W/ GUARD WHERE INDICATED)

CD

CONDENSATE DRAIN

CO2 SENSOR (RETURN DUCT/PLENUM MOUNT)

BV

BALANCING VALVE

ACOUSTIC DUCT LINING

BV

BALL VALVE

RECTANGULAR DUCTWORK

VALVE ON RISER

BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER

TEE CONNECTION

RIGID ROUND DUCT

PIPE DOWN

FLEXIBLE ROUND DUCT

PIPE UP

DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)

2-WAY TEMPERATURE CONTROL VALVE

PNEUMATIC THERMOSTAT

HYDRONIC HEATING SIZE, TYPE & CAPACITY

FAN SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Capacity cfm	ESP in wc	Fan Speed rpm	Motor hp	Motor Voltage	Acceptable Manufacturer	Description
EF-1	IN-LINE EXHAUST FAN	200	0.37	1096	FHP	120/1/60	GREENHECK CSP-A390-VG	IN-LINE CABINET FAN, ACOUSTICALLY INSULATED GALV STEEL HOUSING, FORWARD CURVED CENTRIFUGAL FAN, DIRECT DRIVE, ECM MOTOR, SIDE ACCESS PANELS, FRONT DISCHARGE, INTERNALLY ISOLATED, C/W DUCT COLLARS & HANGING VIBRATION ISOLATORS, MAX 300mm OVERALL EQUIPMENT HEIGHT, 1.6 SONES.
EF-2	IN-LINE EXHAUST FAN	200	0.37	1096	FHP	120/1/60	GREENHECK CSP-A390-VG	IN-LINE CABINET FAN, ACOUSTICALLY INSULATED GALV STEEL HOUSING, FORWARD CURVED CENTRIFUGAL FAN, DIRECT DRIVE, ECM MOTOR, SIDE ACCESS PANELS, FRONT DISCHARGE, INTERNALLY ISOLATED, C/W DUCT COLLARS & HANGING VIBRATION ISOLATORS, MAX 300mm OVERALL EQUIPMENT HEIGHT, 1.6 SONES.
EF-3	IN-LINE EXHAUST FAN	700	0.5	1284	FHP	120/1/60	GREENHECK CSP-A700-VG	IN-LINE CABINET FAN, ACOUSTICALLY INSULATED GALV STEEL HOUSING, FORWARD CURVED CENTRIFUGAL FAN, DIRECT DRIVE, ECM MOTOR, SIDE ACCESS PANELS, FRONT DISCHARGE, INTERNALLY ISOLATED, C/W DUCT COLLARS & HANGING VIBRATION ISOLATORS, MAX 300mm OVERALL EQUIPMENT HEIGHT, 2.5 SONES.
GENERAL FAN NOTES: 1. ACCEPTABLE MANUFACTURERS: GREENHECK, PENN-BARRY, COOK, CARNES, ACME, TWIN CITY, JENCO, BUFFALO.								

GRILLE SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
D1	RADIAL SLOT DIFFUSER	YES	NONE	EH PRICE RSD	RADIAL SLOT DIFFUSER, 24x24, HIGH INDUCTION SWIRL PATTERN (SQUARE ARRAY), SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME.
R1	CEILING RETURN GRILLE (DUCTED)	NO	NONE	EH PRICE 80	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.
E1	EXHAUST GRILLE (DUCTED)	NO	NONE	EH PRICE 80	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.
L1	EXTERIOR LOUVER	NO	NONE	PER SPECIFICATIONS	2" DEEP EXTRUDED ALUMINUM STORMPROOF LOUVER MINIMUM 45% FREE AREA AT SPECIFIED SIZE, RATED FOR NO WATER PENETRATION AT SPECIFIED AIRFLOW, PROVIDE INSULATED BLANK-OFF PANELS FOR ALL UNUSED PORTIONS OF LOUVER.
LOUVERED PENTHOUSE	LOUVERED PENTHOUSE	-	-	EH PRICE BCDE439	BOX CORNER LOUVERED PENTHOUSE, 18" TALL, 4" DEEP DRAINABLE BLADE EXTRUDED ALUMINUM FIXED LOUVER, 39° BLADE ANGLE, 886 FPM BEGINNING POINT OF WATER ENTRY PER AMCA 500, ALL WELDED CONSTRUCTION, C/W BIRDSCREEN, C/W INSECT SCREEN, 55% FREE AREA, SIZE PER PLANS
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).					

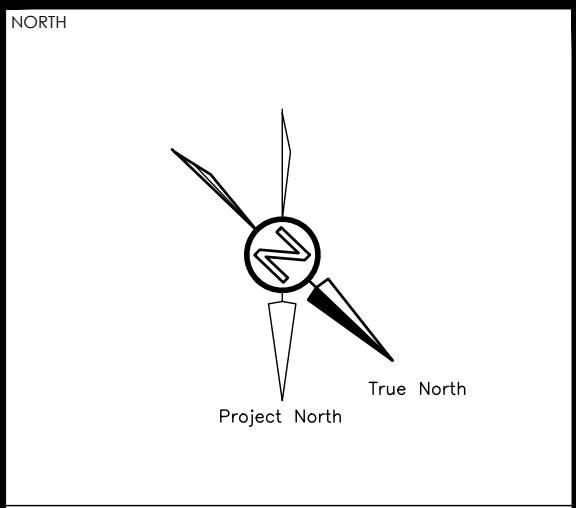
VOLUME CONTROL DAMPER SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Capacity (cfm)						Size		Manufacturer & Model	Remarks
		Design	Min. Vent	Heating		Cooling		Neck	Box		
				Min	Max	Min	Max				
MD-21.4	VOLUME CONTROL DAMPER	100	30	30	100	30	130	8	8	HONEYWELL, TAMCO, E.H. PRICE, JOHNSON, ETC. SEE SPEC	OPPOSED BLADE MOTORIZED DAMPER, DISC TYPE (DURO DYNE, POTTORFF, HENDERSON INDUSTRIAL) ALSO ACCEPTABLE FOR ROUND DUCTS UP TO 200w.
MD-21.5	VOLUME CONTROL DAMPER	100	30	30	100	30	130	8	8	HONEYWELL, TAMCO, E.H. PRICE, JOHNSON, ETC. SEE SPEC	OPPOSED BLADE MOTORIZED DAMPER, DISC TYPE (DURO DYNE, POTTORFF, HENDERSON INDUSTRIAL) ALSO ACCEPTABLE FOR ROUND DUCTS UP TO 200w.

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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Do not scale this drawing.
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No.	REVISIONS	DATE
01	ISSUED FOR REVIEW	2024.12.16
02	ISSUED FOR BUILDING PERMIT	2025.01.24
03	ISSUED FOR TENDER	2025.02.14



CHRONOLOGY	DATE

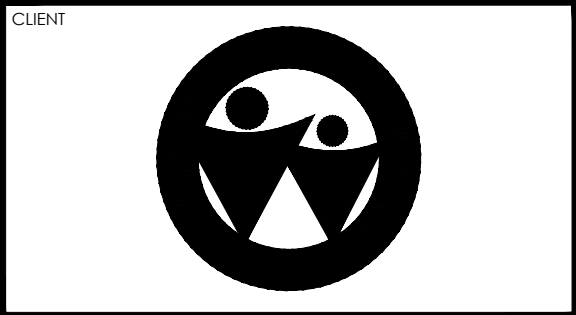
DEI

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MECHANICAL | ELECTRICAL | AQUATIC

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PROJECT NAME

COURTLAND PUBLIC SCHOOL
PHASE 2 MECH UPGRADES
107 COURTLAND AVE. E, KITCHENER, ON. N2G 2T9

DRAWING TITLE

KEYPLAN, LEGEND
AND SCHEDULES

SCALE

AS NOTED

SHEET SIZE

24x36

PROJECT NUMBER

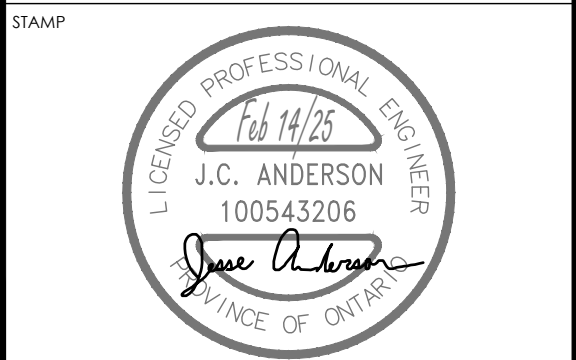
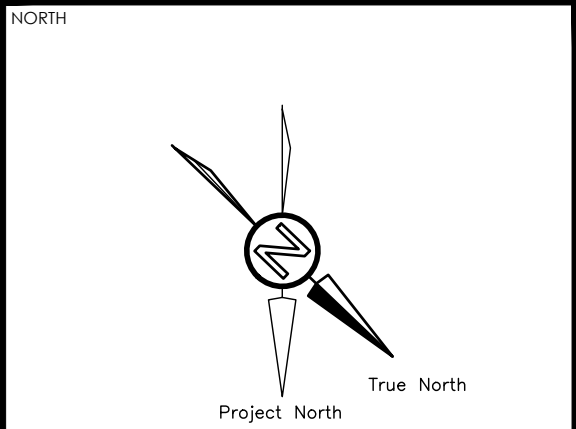
24323

DRAWING NUMBER

M1.1

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



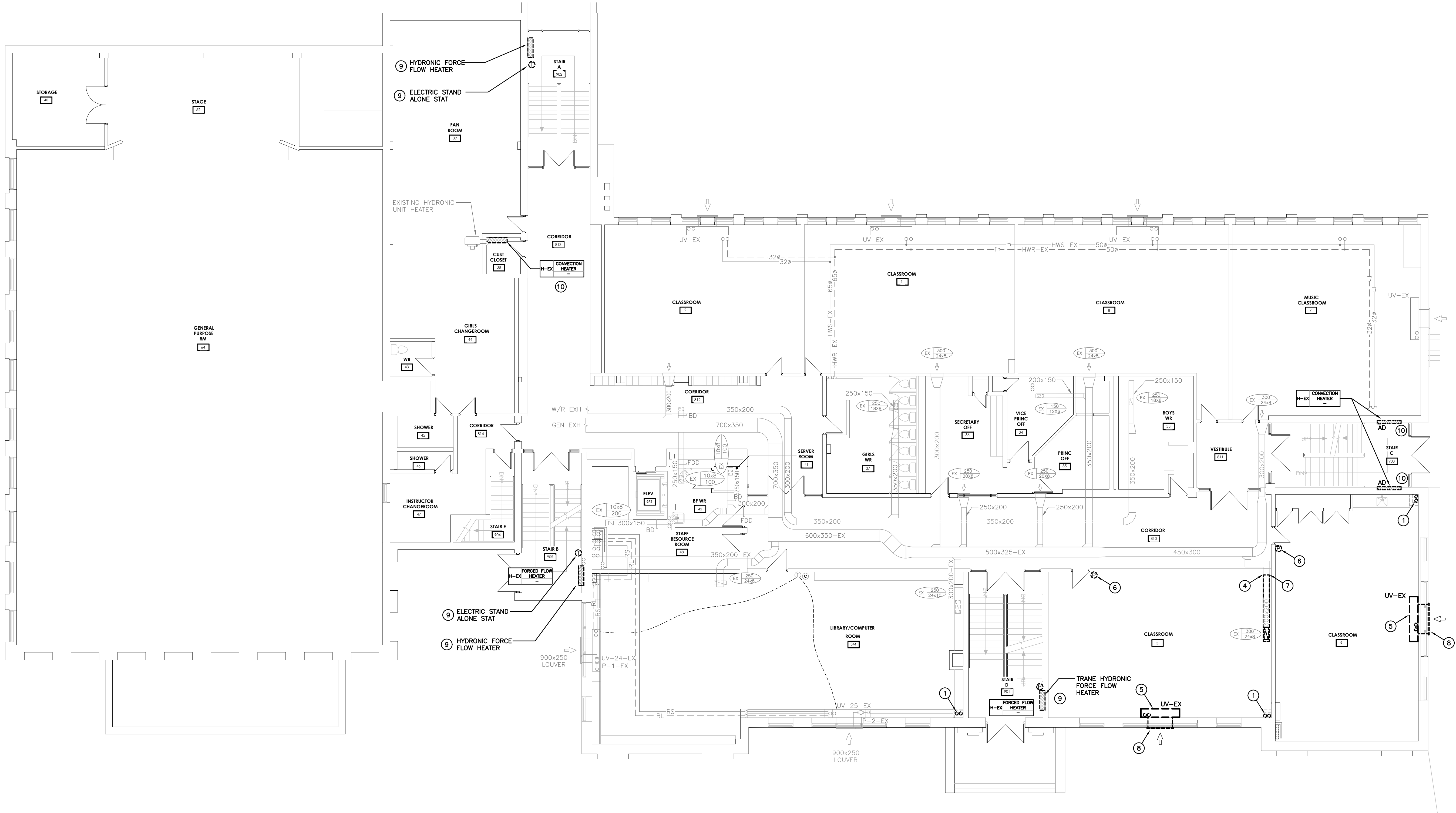
PROJECT NAME

COURTLAND PUBLIC SCHOOL
PHASE 2 MECH UPGRADES
107 COURTLAND AVE. E, KITCHENER, ON. N2G 2T9

DRAWING TITLE

FIRST FLOOR
DEMOLITION PLAN

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	24x36
PROJECT NUMBER	24323
	M2.2



FIRST FLOOR DEMOLITION PLAN
SCALE: 1:100

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.

SPECIFIC DEMOLITION NOTES


- REMOVE 32" HWS/HWR AS INDICATED. PREPARE FOR NEW CONNECTION.
- REMOVE 32" HWS/HWR C/W EXISTING TOV, BALANCE, AND ISOLATION VALVE, ETC. FOR REPLACEMENT WITH NEW. REFER TO DETAIL FOR VALVE AND OTHER INSTALLATION REQUIREMENTS.
- REMOVE EXISTING TRANSFER DUCT AS INDICATED.
- REMOVE EXISTING DUCT AS INDICATED FOR RELOCATION.
- REMOVE EXISTING UNIT VENTILATOR COMPLETE.
- REMOVE EXISTING THERMOSTAT FOR REPLACEMENT WITH NEW. WHERE EXISTING THERMOSTATS ARE PNEUMATIC, PROPERLY CAP PNEUMATIC LINES. NEW THERMOSTATS TO BE DIGITAL.
- DO NOT MODIFY DUCTWORK AT CORRIDOR PENETRATION.
- REMOVE EXISTING EXTERIOR LOUVER.
- REMOVE EXISTING PNEUMATIC OR STAND ALONE THERMOSTAT FOR INSTALLATION OF NEW DDC/BAS TEMPERATURE SENSOR. REMOVE FORCED FLOW HEATER COVER FOR REPLACEMENT OF VALVES. REMOVE EXISTING CONTROL VALVE, BALANCE VALVE, AND AIR ELIMINATOR. FOR PNEUMATIC SYSTEMS, ENSURE THAT PNEUMATIC TUBING IS REMOVED BACK TO MECH ROOM OR NEAREST BRANCH AND CAPPED.
- REMOVE EXISTING RAD COVER FROM EXISTING CONVECTIVE HEATER AS REQUIRED TO SERVICE OPERABLE DAMPER AND DAMPER OPERATOR KNOB. RETAIN FOR REINSTALLATION.
- REMOVE EXISTING RETURN AIR GRILLE. RETAIN FOR REINSTALLATION.

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COURTLAND PUBLIC SCHOOL
PHASE 2 MECH UPGRADES
107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

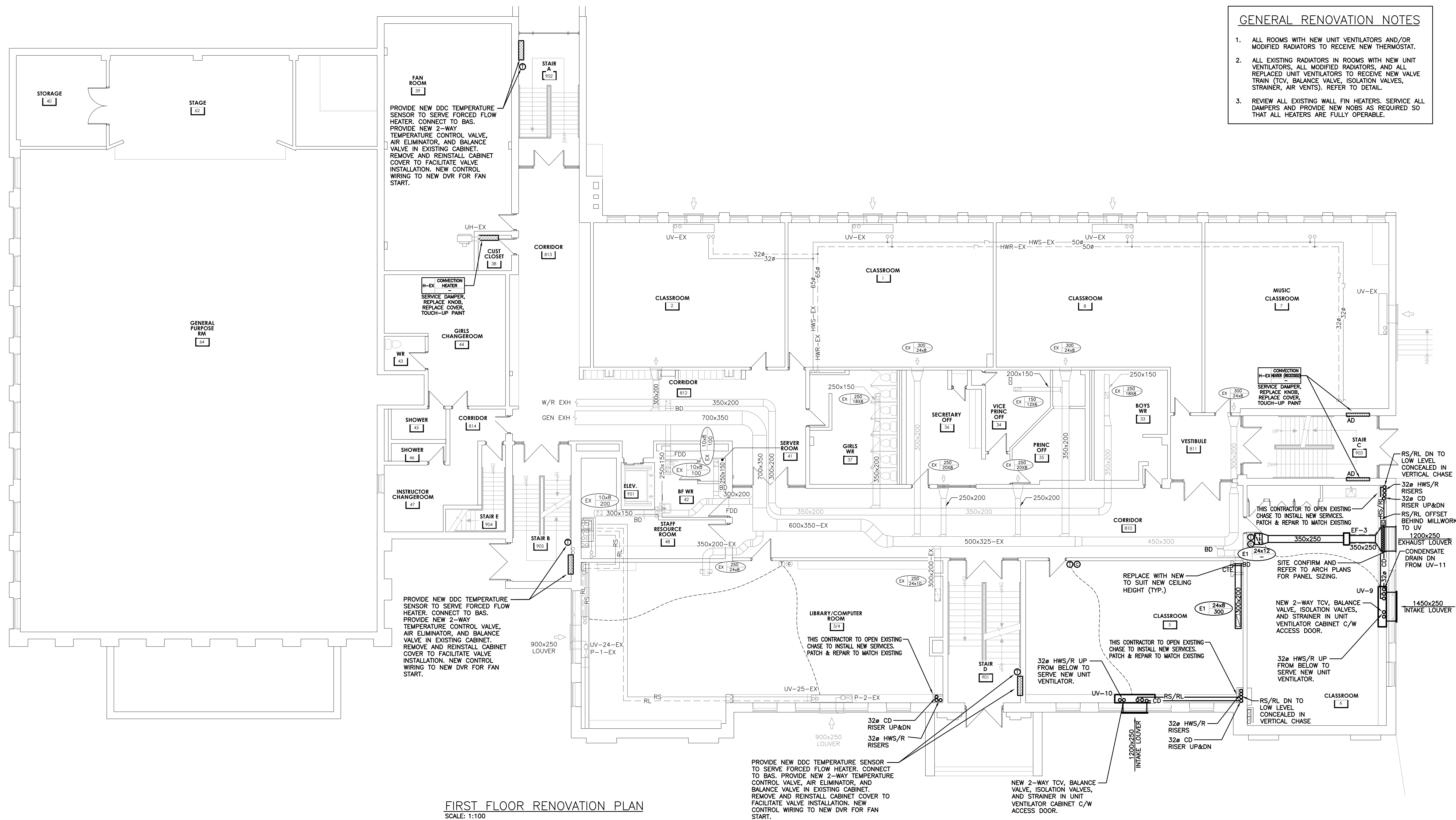
SECOND FLOOR
DEMOLITION PLAN

AS NOTED	
SHEET SIZE 24x36	
PROJECT NUMBER 24323	



- A. EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- B. EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- C. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- D. ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- E. PLENUM VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVAL OF REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- F. REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- G. MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- H. INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- I. THIS CONTRACTOR IS TO REMOVE & REPLACE CEILING AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

1. REMOVE 32ø HWS/HWR AS INDICATED. PREPARE FOR NEW CONNECTION.
2. REMOVE 32ø HWS/HWR C/W EXISTING TCV, BALANCE, AND ISOLATION VALVE, ETC. FOR REPLACEMENT WITH NEW. REFER TO DETAIL FOR VALVE AND OTHER INSTALLATION REQUIREMENTS.
3. REMOVE EXISTING TRANSFER DUCT AS INDICATED.
4. REMOVE EXISTING DUCT AS INDICATED FOR RELOCATION.
5. REMOVE EXISTING UNIT VENTILATOR COMPLETE.
6. REMOVE EXISTING THERMOSTAT FOR REPLACEMENT WITH NEW. WHERE EXISTING THERMOSTATS ARE PNEUMATIC, CAP PNEUMATIC LINES. NEW THERMOSTATS TO BE DIGITAL.
7. DO NOT MODIFY DUCTWORK AT CORRIDOR PENETRATION.
8. REMOVE EXISTING EXTERIOR LOUVER.
9. REMOVE EXISTING PNEUMATIC OR STAND ALONE THERMOSTAT FOR INSTALLATION OF NEW DDC/BAS TEMPERATURE SENSOR. REMOVE FENCED FLOW HEATER COVER FOR REPLACEMENT OF VALVES. REMOVE EXISTING CONTROL VALVE, BALANCE VALVE, AND AIR ELIMINATOR. FOR PNEUMATIC SYSTEMS, ENSURE THAT PNEUMATIC TUBING IS REMOVED BACK TO MECH ROOM OR NEAREST BRANCH AND CAPPED.
10. REMOVE EXISTING RAD COVER FROM EXISTING CONNECTIVE HEATER AS REQUIRED TO SERVICE GRILLE DAMPER AND DAMPER OPERATOR KNOB. RETAIN FOR REINSTALLATION.
11. REMOVE EXISTING RETURN AIR GRILLE. RETAIN FOR REINSTALLATION.



- ### GENERAL RENOVATION NOTES

1. ALL ROOMS WITH NEW UNIT VENTILATORS AND/OR MODIFIED RADIATORS TO RECEIVE NEW THERMOSTAT.
2. ALL EXISTING RADIATORS IN ROOMS WITH NEW UNIT VENTILATORS, ALL MODIFIED RADIATORS, AND ALL REPLACED UNIT VENTILATORS TO RECEIVE NEW VALVE TRAIN (TCV, BALANCE VALVE, ISOLATION VALVES, STRAINER, AIR VENTS). REFER TO DETAIL.
3. REVIEW ALL EXISTING WALL FIN HEATERS. SERVICE AIR DAMPERS AND PROVIDE NEW NOBS AS REQUIRED SO THAT ALL HEATERS ARE FULLY OPERABLE.

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

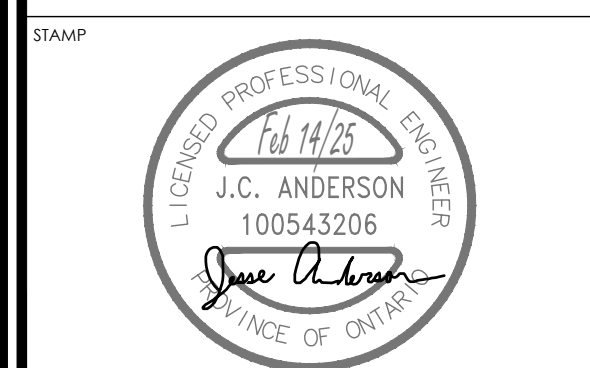
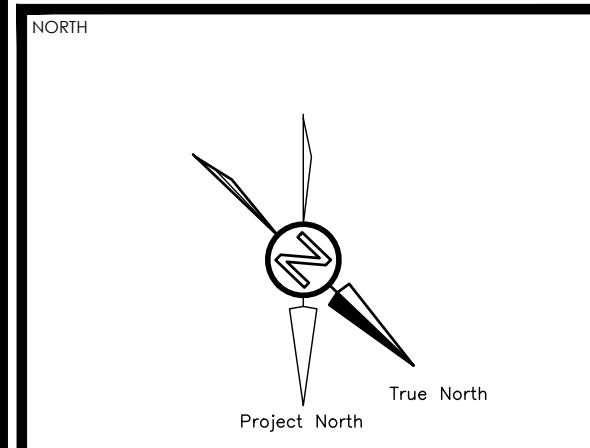
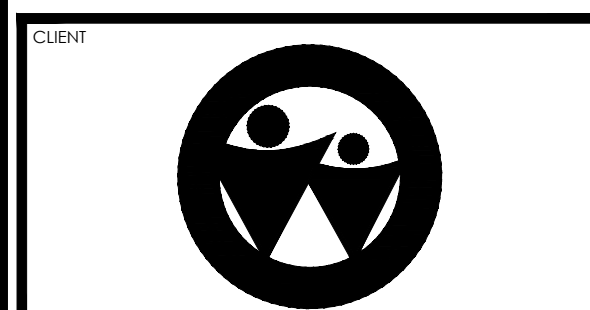
The drawings show general arrangement of services. Follow as closely as actual building construction will permit, and coordinate with the location of service from Consultant before commencement of the work.

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Do not scale this drawing.

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PROJECT NAME

COURTLAND PUBLIC SCHOOL
PHASE 2 MECH UPGRADES
107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE

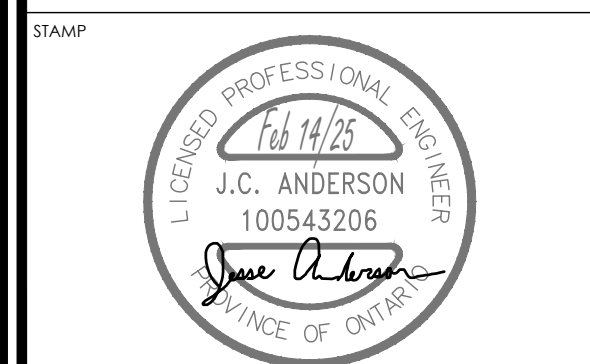
FIRST FLOOR
RENOVATION PLAN

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	
24x36	M3.3
PROJECT NUMBER	
24323	



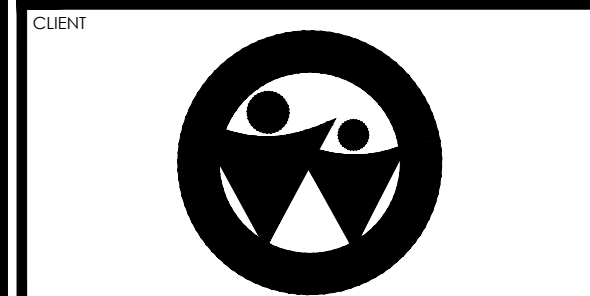
1. ALL ROOMS WITH NEW UNIT VENTILATORS AND/OR MODIFIED RADIATORS TO RECEIVE NEW THERMOSTAT.
2. ALL EXISTING RADIATORS IN ROOMS WITH NEW UNIT VENTILATORS, ALL MODIFIED RADIATORS, AND ALL REPLACED UNIT VENTILATORS TO RECEIVE NEW VALVE TRAIN (TCV, BALANCE VALVE, ISOLATION VALVES, STRAINER, AIR VENTS). REFER TO DETAIL.
3. REVIEW ALL EXISTING WALL FIN HEATERS. SERVICE AIR DAMPERS AND PROVIDE NEW NOBS AS REQUIRED SO THAT ALL HEATERS ARE FULLY OPERABLE.

No.	REVISIONS	DATE
01	ISSUED FOR MECH CHANGE NOTICE CN-03	2024.08.19
02	ISSUED FOR BUILDING PERMIT	2025.01.24
03	ISSUED FOR TENDER	2025.02.14



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55 Northland Road, Waterloo, ON N2V 1Y8
 Phone: 519-741-3555
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 Project Number: 24323



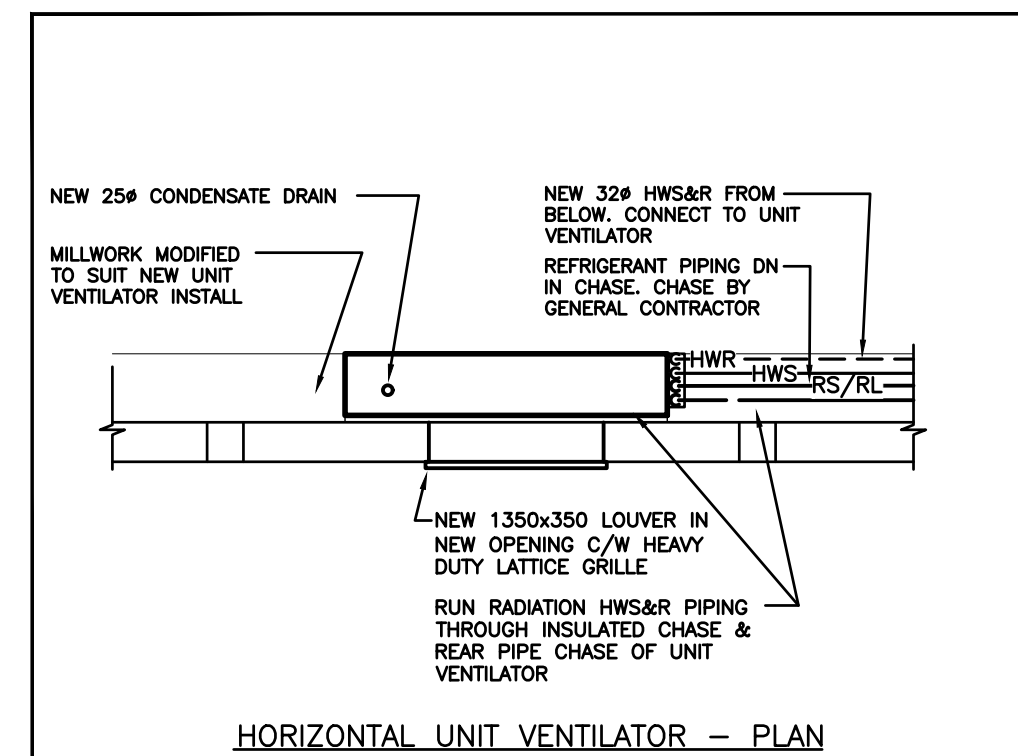
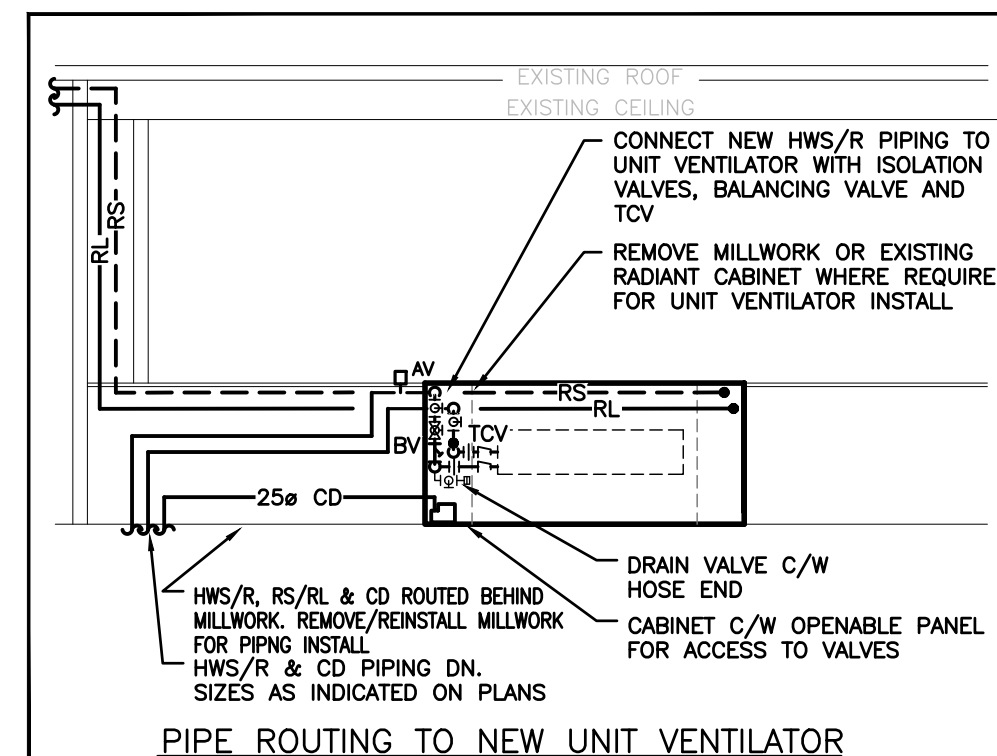
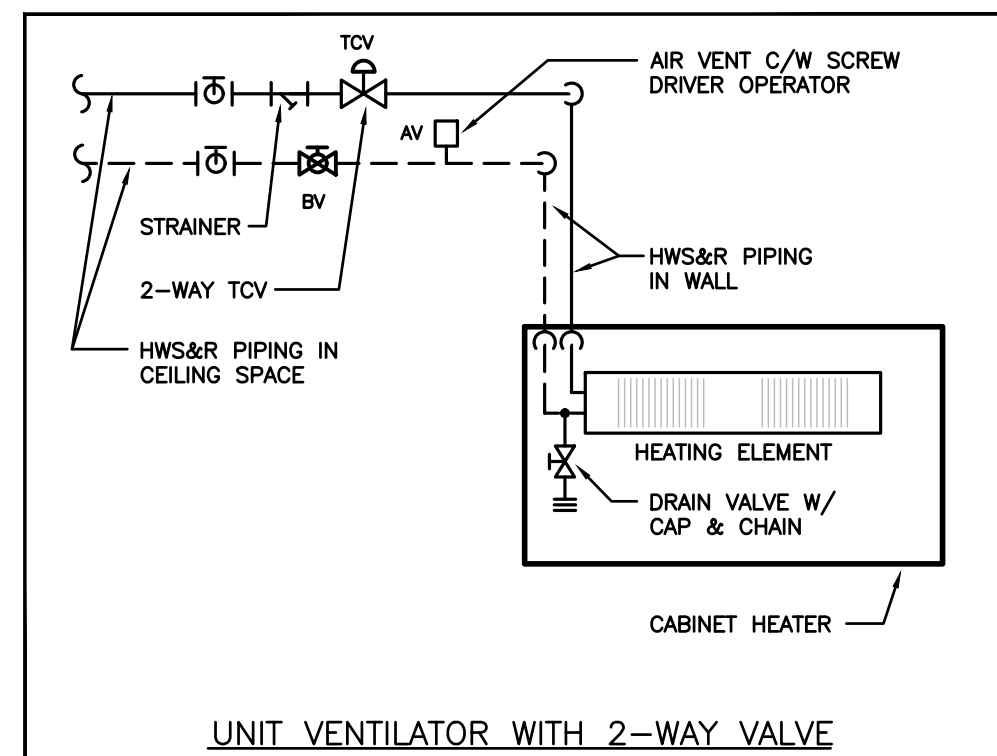
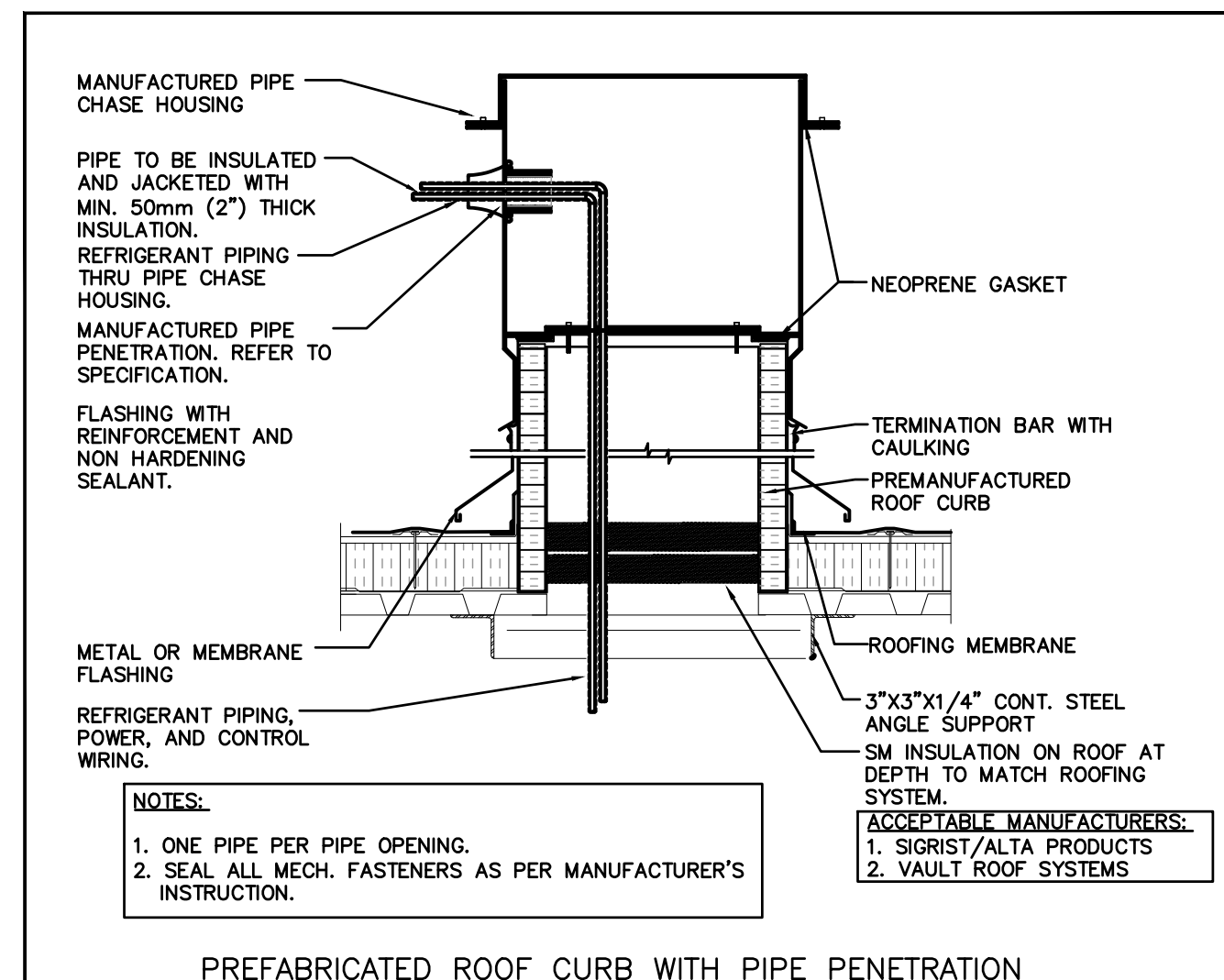
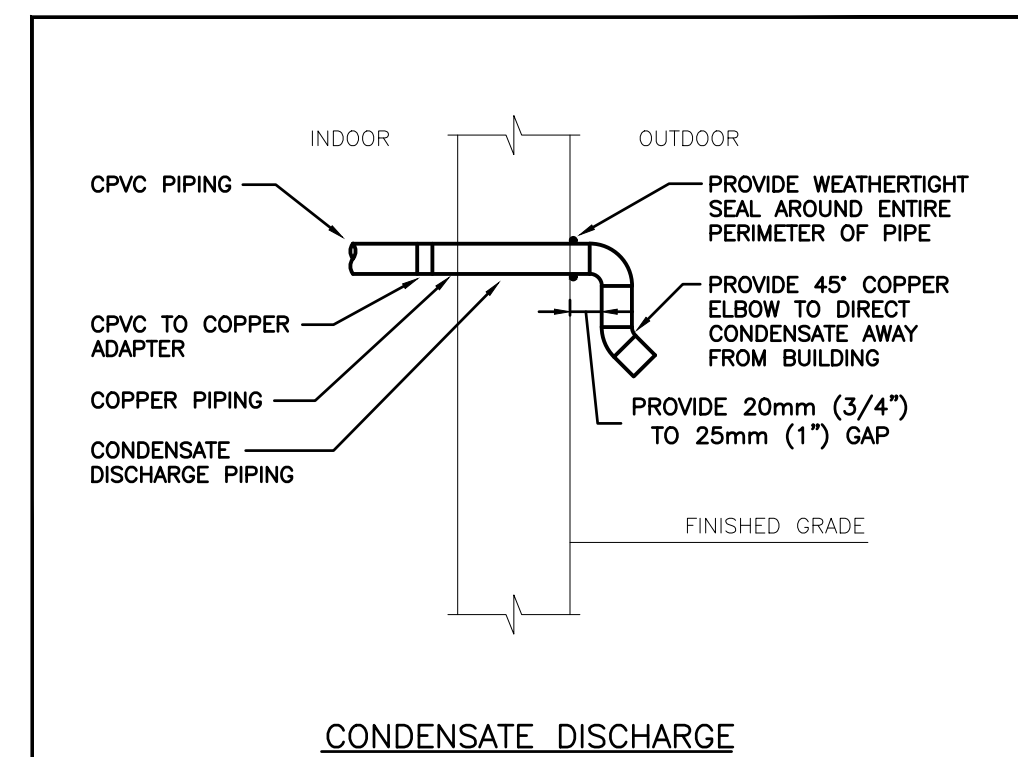
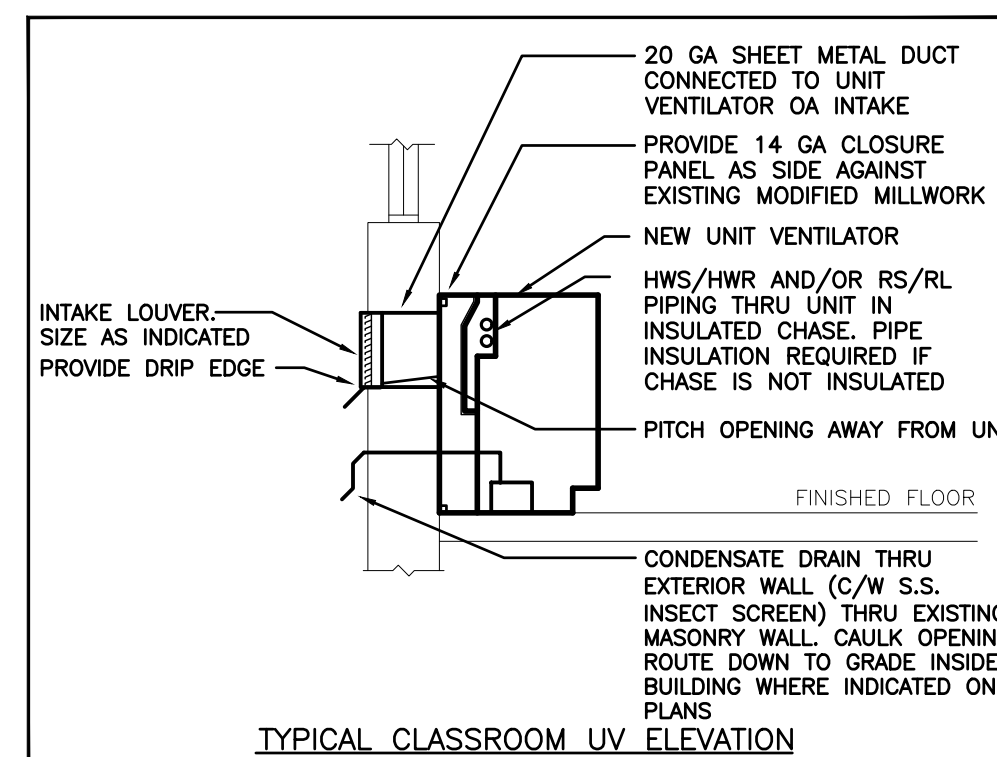
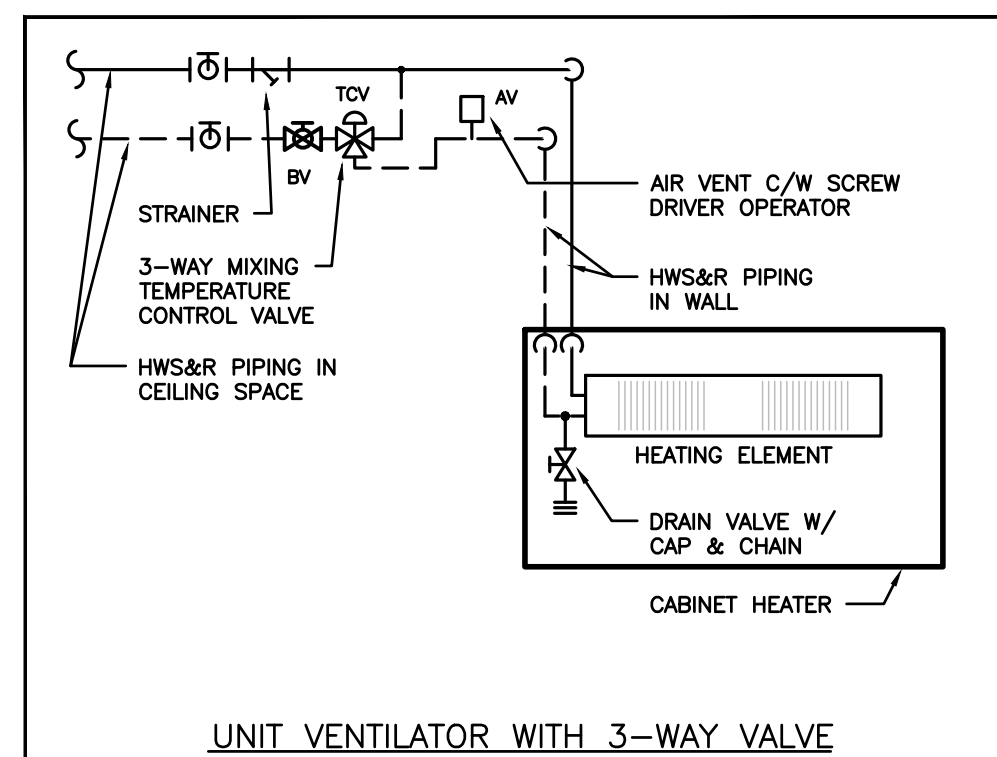
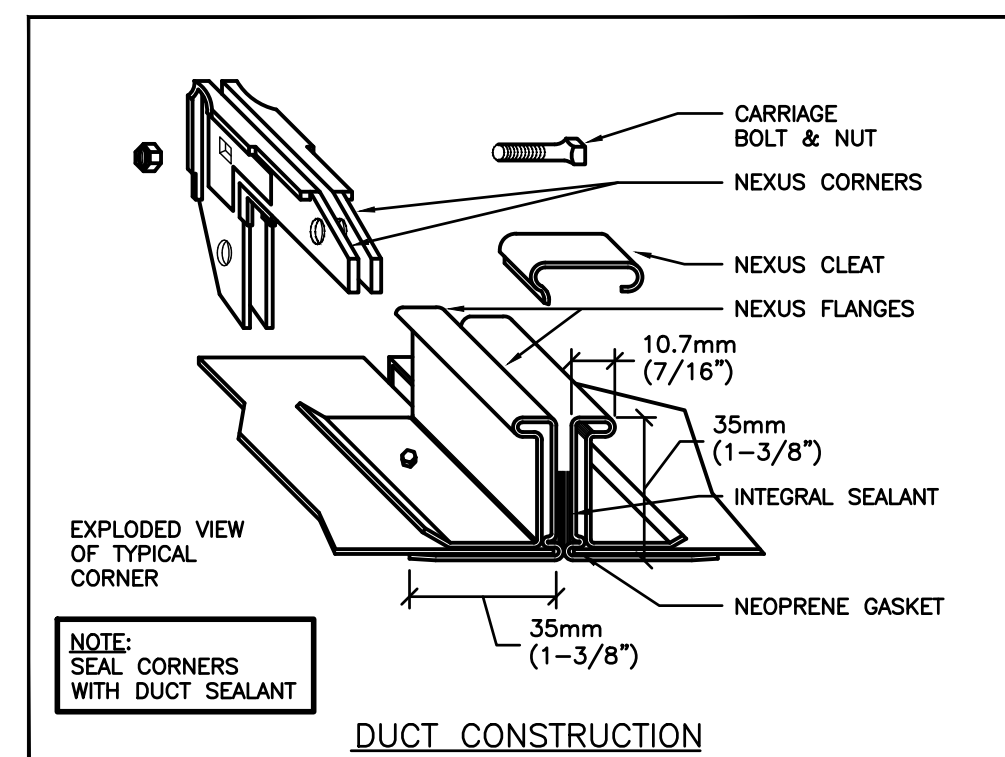
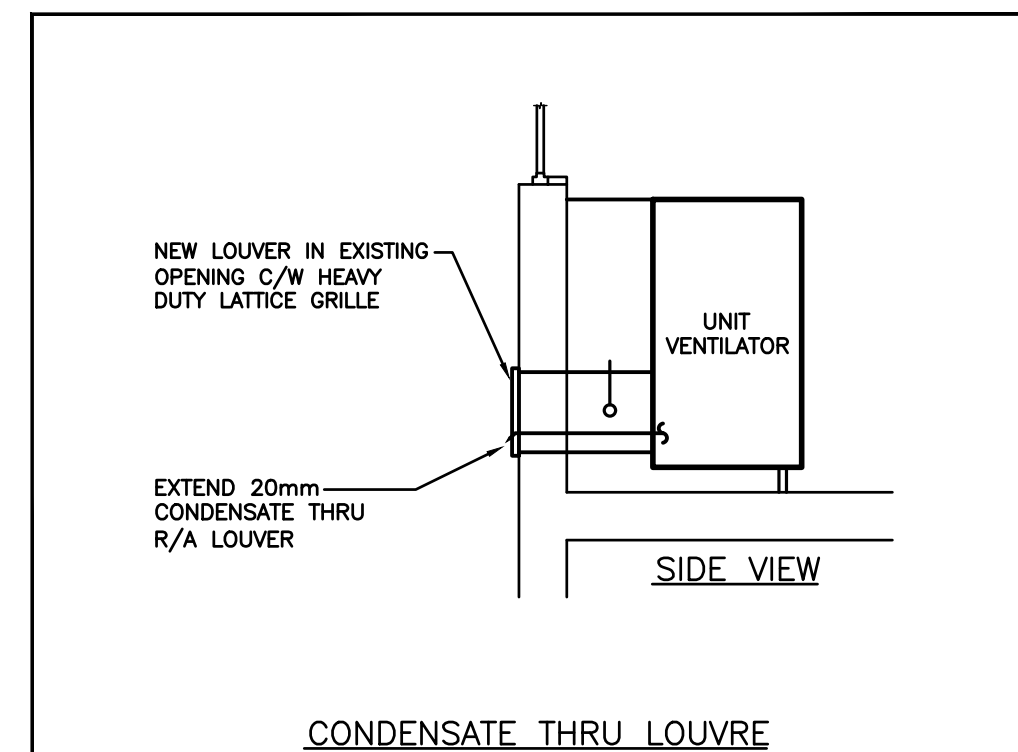
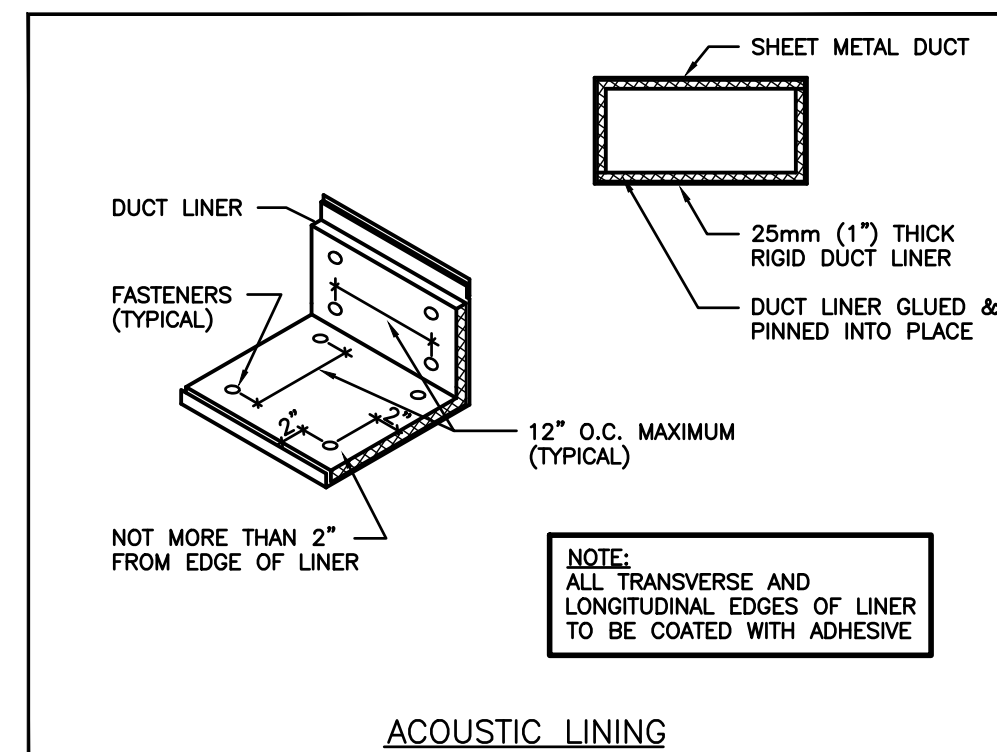
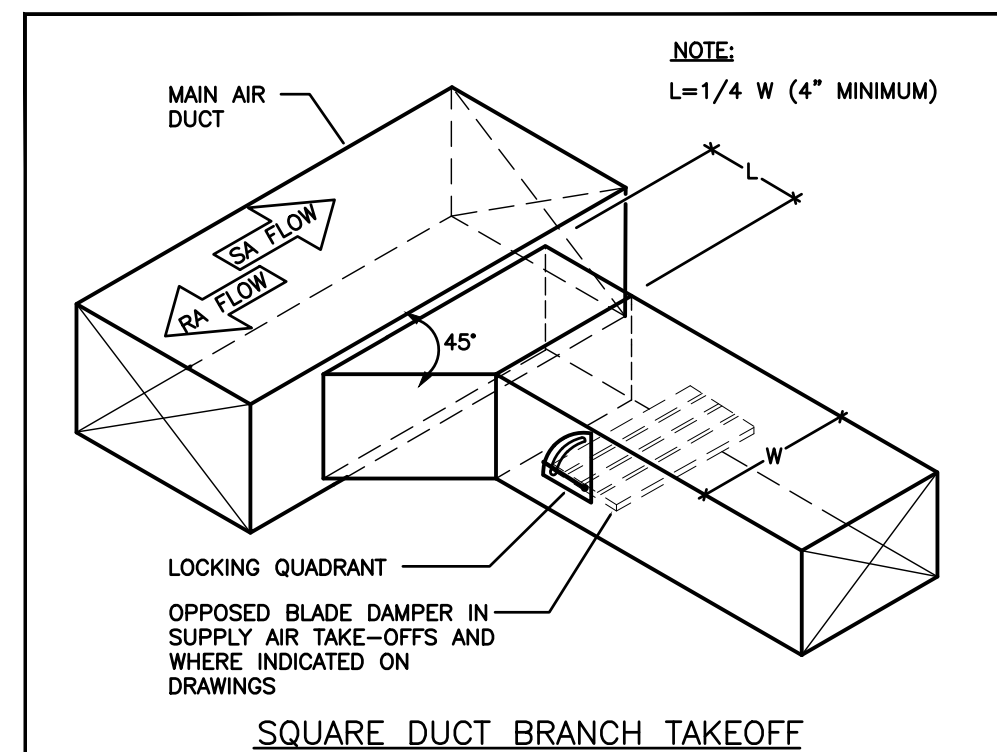
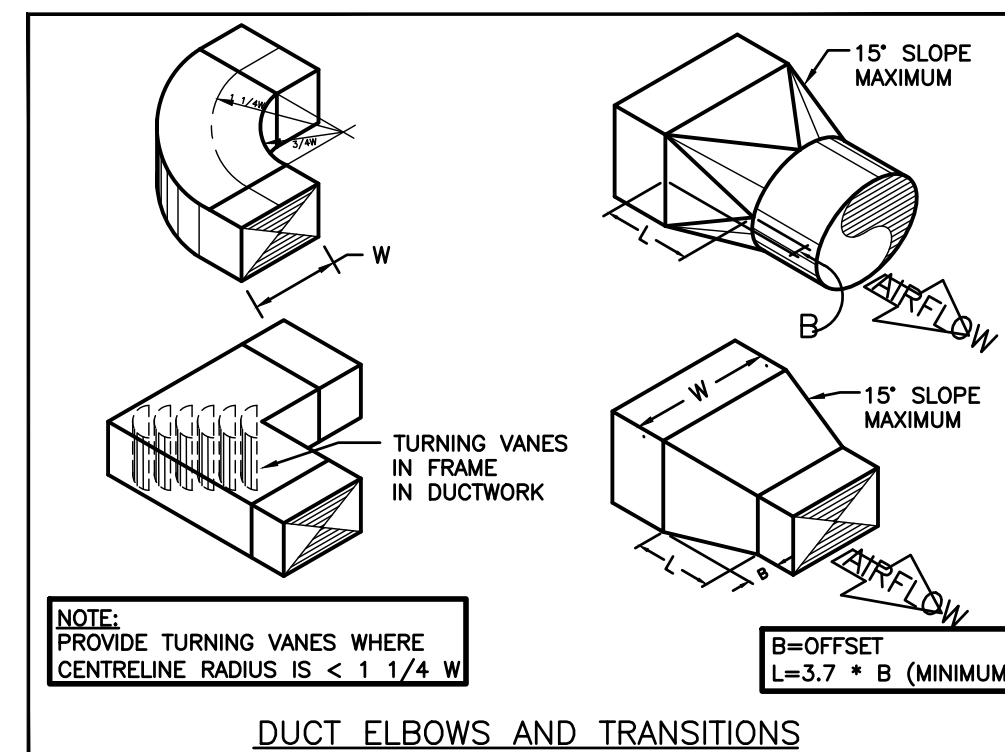
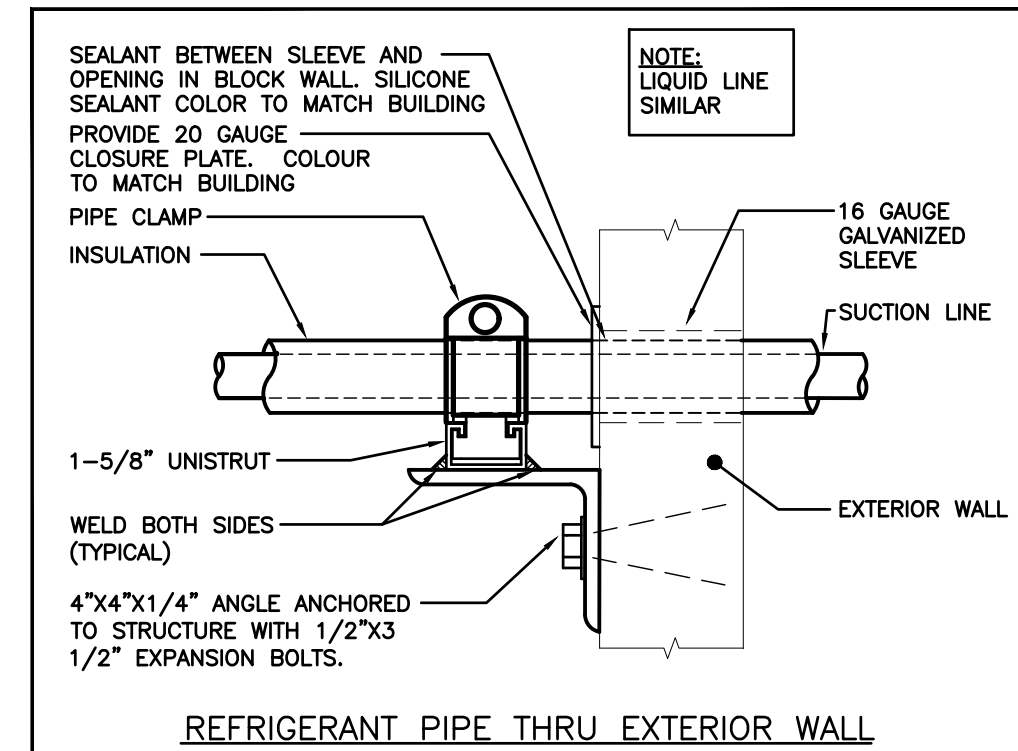
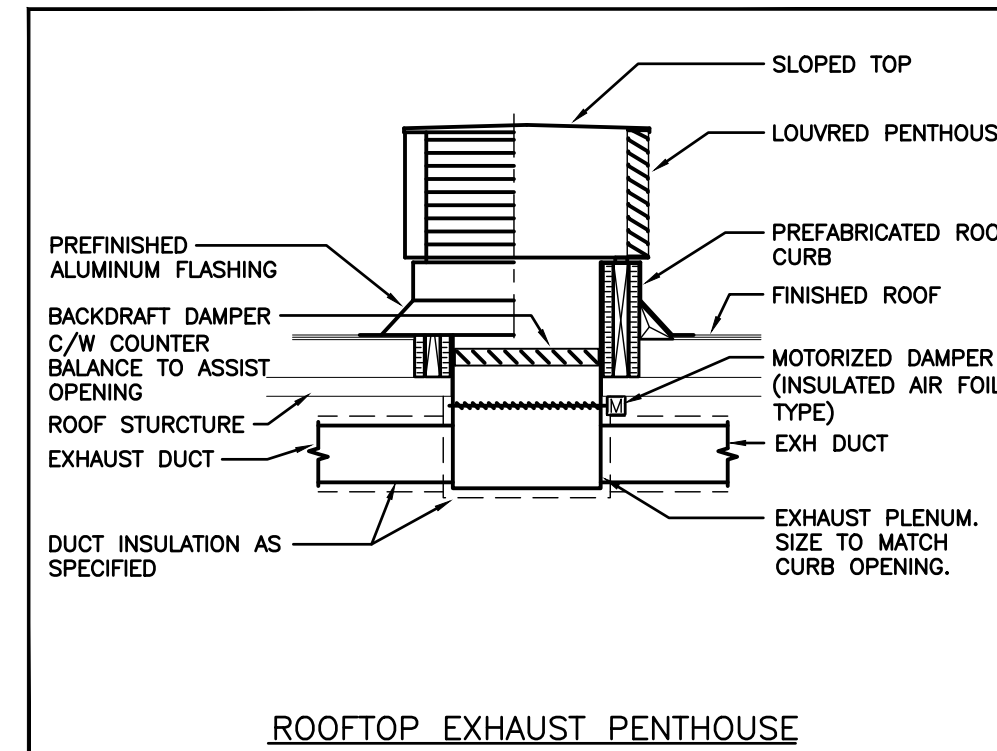
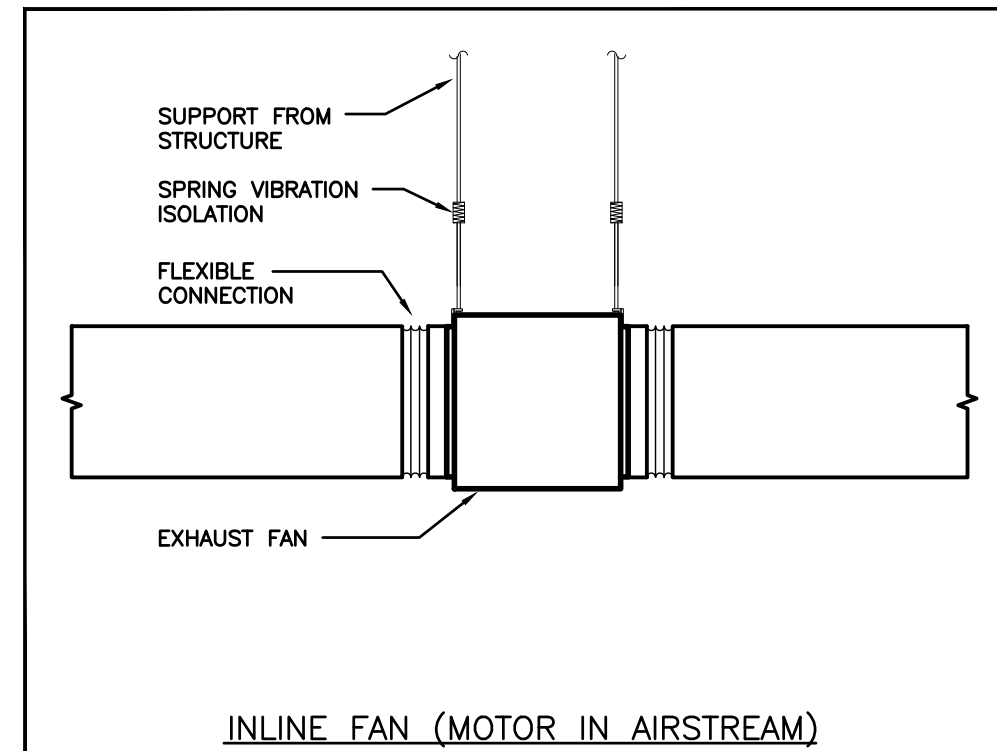
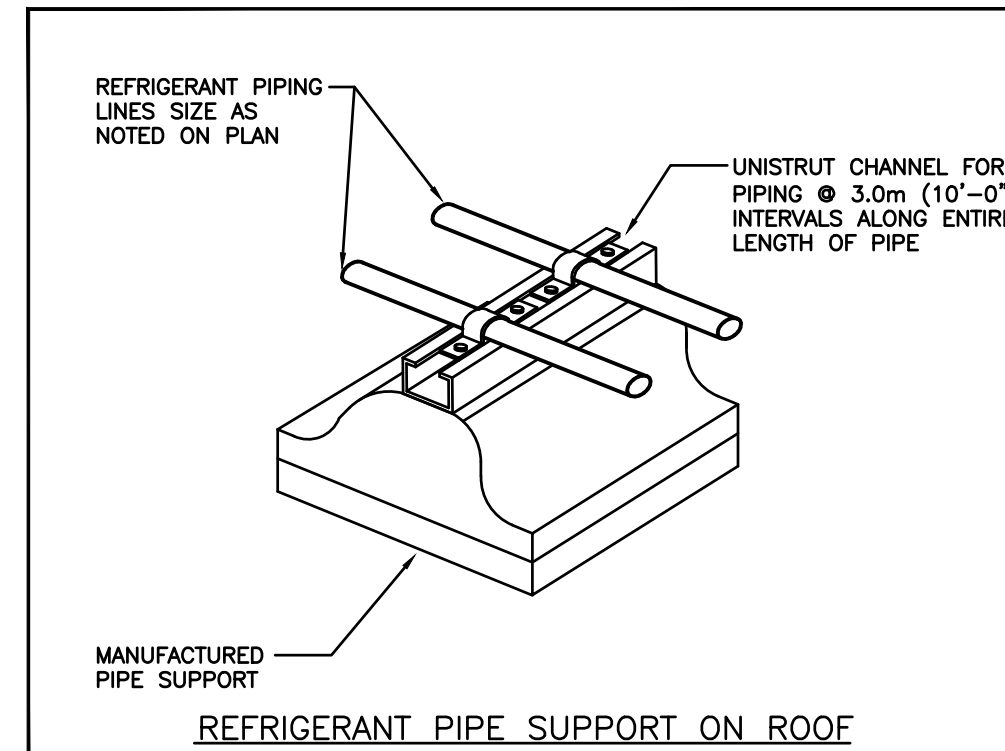
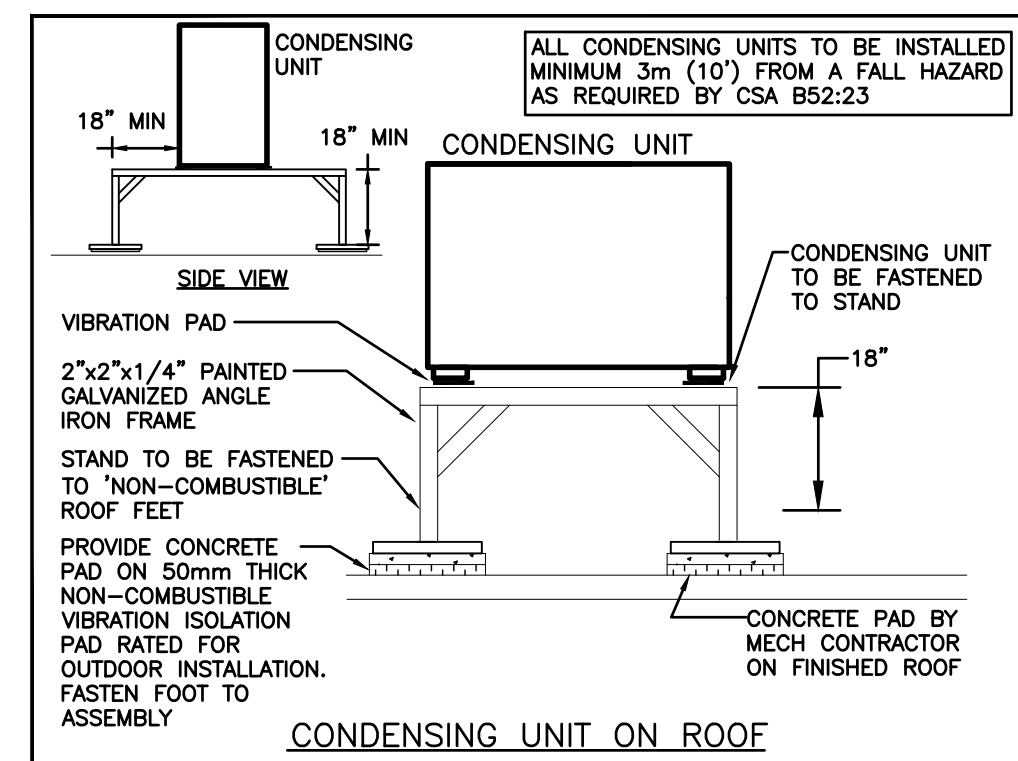
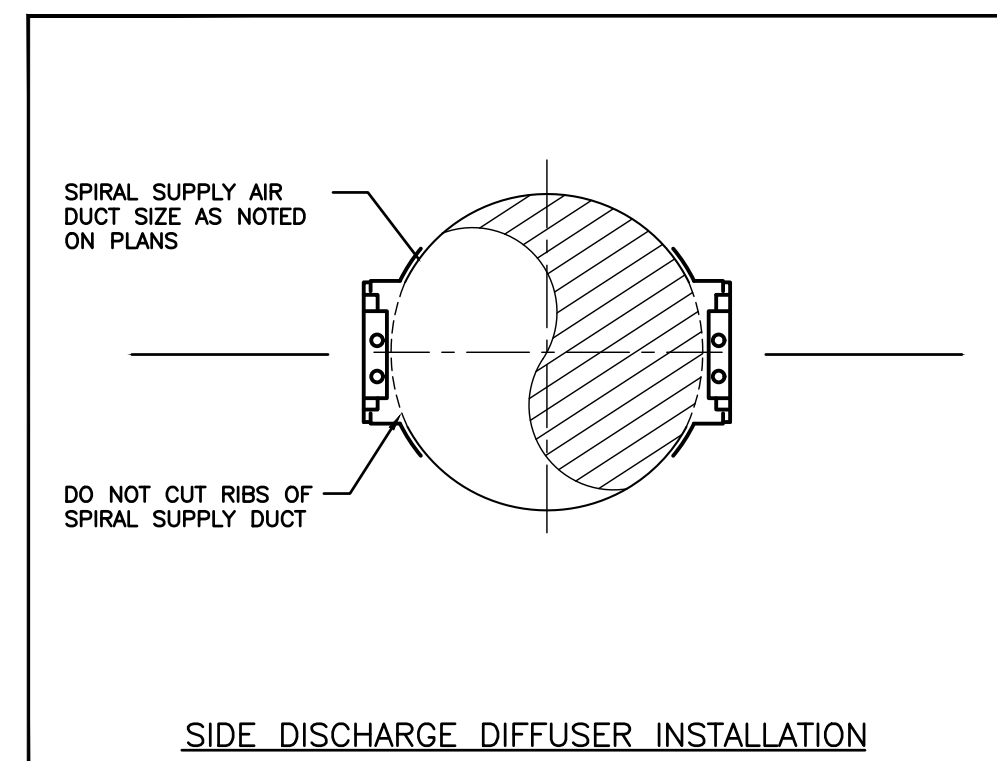
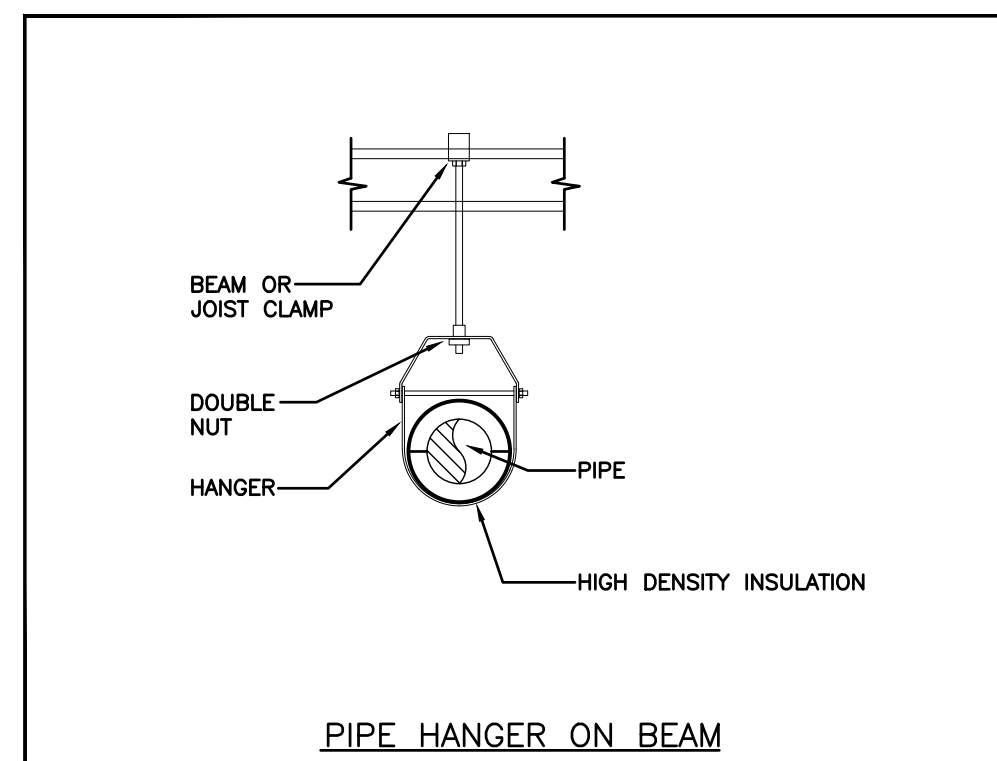
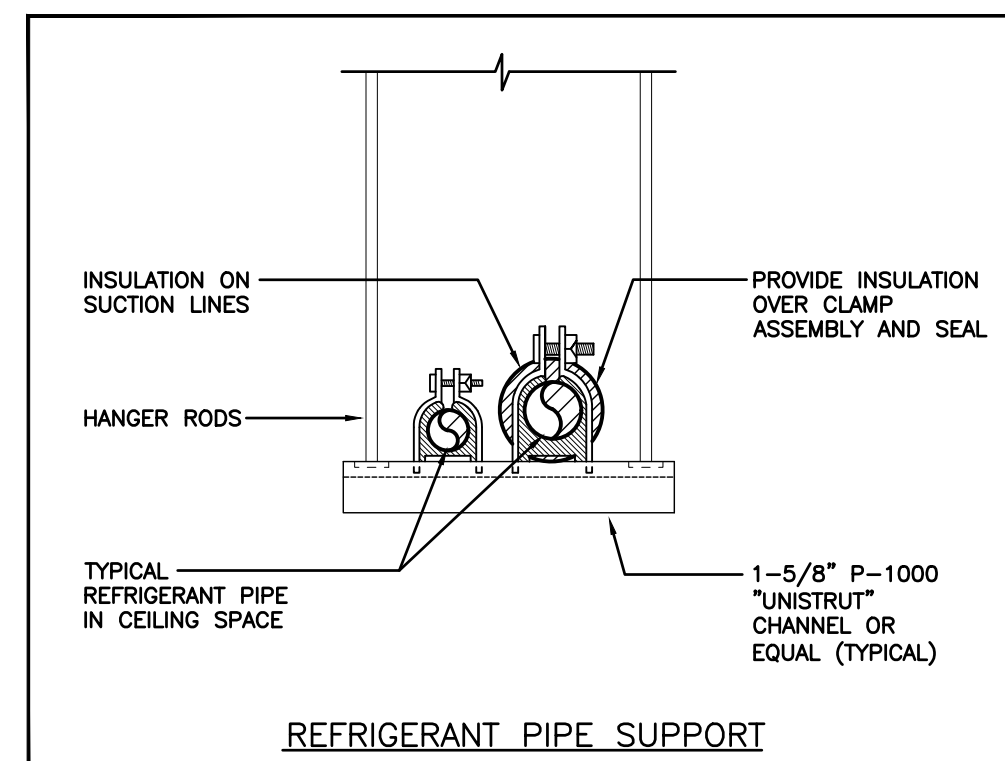
PROJECT NAME

COURTLAND PUBLIC SCHOOL
PHASE 2 MECH UPGRADES
107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE

SECOND FLOOR
RENOVATION PLAN

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	
24x36	M3.4
PROJECT NUMBER	
24323	



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 for approval of 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.

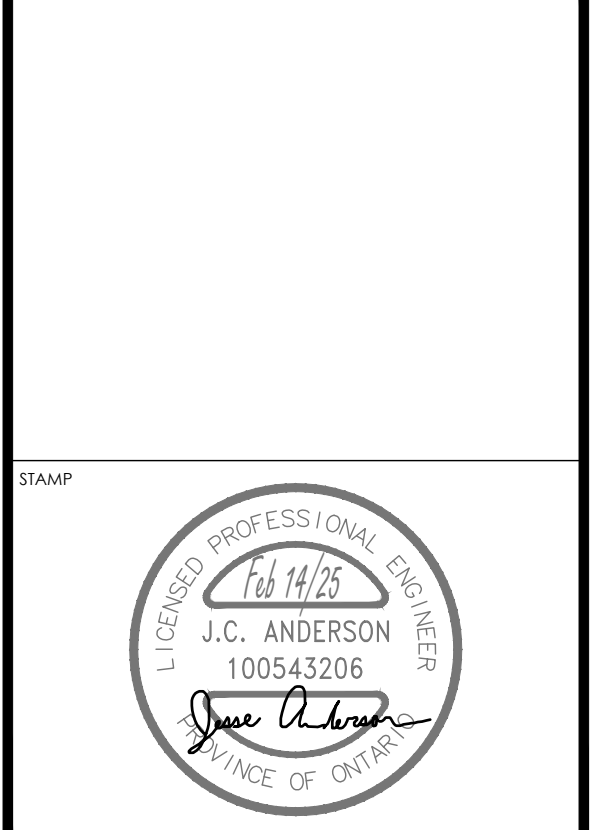
These documents are not to be duplicated or copied without the consent of the Consultant.

Do not scale this drawing.

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No.	REVISIONS	DATE
01	ISSUED FOR REVIEW	2024.12.16
02	ISSUED FOR BUILDING PERMIT	2025.01.24
03	ISSUED FOR TENDER	2025.02.14

NORTH

[illegible]

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 55 Northland Road, Waterloo, ON N2V 1Y8
 Phone: 519-745-3955
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 Project Number: 24323



PROJECT NAME

COURTLAND PUBLIC SCHOOL
PHASE 2 MECH UPGRADES
107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE

MECHANICAL
DETAILS

SCALE	DRAWING NUMBER
AS NOTED	M4.1
SHEET SIZE	
24x36	
PROJECT NUMBER	
24323	