

### AIR HANDLING UNIT SCHEDULE

Item	Type	Supply Air Fan Array Data						Return/Exhaust Air Fan Array Data						VRF ASHP COIL (COOLING)						VRF ASHP COIL (HEATING)						HOT GAS REHEAT COIL						HOT WATER COIL						ENERGY RECOVERY						Remarks						
		Capacity cfm	ESP in wc	Drive	Size hp	Voltage	MCA	MOCOP	Capacity cfm	ESP in wc	Drive	Size hp	Voltage	MCA	MOCOP	Medium	Type	Sens. Cap. BTU/HR	Total Cap. BTU/HR	Ent. Air db	LVG Air db	Ent. Air db	LVG Air db	Ent. Air db	LVG Air db	Medium	Capacity BTU/HR	Ent. Air db	LVG Air db	Face Vel. fpm	PD. Air in	Ent. Fluid	LVG Fluid	Flow Rate gpm	PD. Fluid ft.hd	Type	Model	Heating Capacity (BTU/HR) @ -5 db/-5 wb	Cooling Capacity (BTU/HR) @ 85 db/67 wb	Effectiveness Cooling (%)	Effectiveness Heating (%)	Net Airflow CFM (SUPPLY)	Net Airflow CFM (EXHAUST)		Manufacturer	Model				
AHU-2	INDOOR AIR HANDLING UNIT - 2&3RD FLOOR	6600	1.2	ECM (x2)/VFD	6.7	208/3/60	37.4	50	6000	1.0	ECM (x2)/VFD	3.8	208/3/60	20	25	DX	R410a	138,300	214,700	79.3/66.9	59.9/56.6	0.23	457.0	147,760	-6.0	65.8	88,190	60.0	72.3	WATER	618,664	-5	80.7	377	0.13	170.0	149.8	66.0	3.3	WHEEL	SA-1600-MW	446,634	72.76	181,151	71.39	6600	6000	DAIKIN	CAH019GHCM	INTERLOCK CU-5A/B

### PLUMBING FIXTURE SCHEDULE

Item	Type	Connection Sizes					Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessories Description
		HW	CW	TW	Drain	Vent						
U-1	URINAL FLUSH VALVE, HANDS FREE	3/4			2	1 1/2	AMERICAN STANDARD WASHBROOK 6590.001 KOHLER ZURN	VITREOUS CHINA, WASHOUT TYPE, INTEGRAL FLUSHING RIM, EXTENDED SHIELDS, INTEGRAL TRAP, BACK OUTLET, WALL-MOUNTED, TOP SUPPLY SPUD, MIN 2" TRAP WAY, MAXIMUM 0.5 litres (0.125 gal) PER FLUSH. C/W FLOOR MOUNTED CARRIER	DELTA 81T2318TA-05 KOHLER SLOAN	POLISHED CHROME PLATED VANDAL RESISTANT METAL COVER WITH BATTERY OPERATED WALLMOUNTED SENSOR, RIGHT OR LEFT-HAND SUPPLY INSTALLATION, AUTOMATIC OPERATION HARDWARE POWERED SENSOR, INFRARED SENSOR TO HAVE A RANGE ADJUSTMENT OF 200mm - 600mm (8"-24") AND ELECTRONIC MANUAL OVERRIDE BUTTON. WATER CONSERVING FIXED, NON-ADJUSTABLE FLUSH VOLUME, FACTORY SET TO 0.5 LITRE (0.125 GAL.). C/W 24 HOUR AUTO FLUSH SET TO ON. STANDARD AA ALKALINE BATTERIES.	WATTS ZURN	PROVIDE FLOOR MOUNTED CARRIER

### PUMP SCHEDULE

Acceptable Manufacturers: Bell & Gossett, Armstrong, Grundfos

Item	Type	Capacity USgpm	Head ft	Size	Electrical Voltage	Manufacturer & Model	Remarks
P-10	AHU HEATING COIL PUMP	70	40	2 HP	208/3/60	BELL & GOSSETT EDDCOR XL 95-160	C/W ECM MOTOR

### CONDENSATE PUMP SCHEDULE

Acceptable Manufacturers: Aspen, Little Giant, Sauerbrunn

Item	Type	Capacity USgpm	Head ft	Size	Electrical Voltage	Manufacturer & Model	Remarks
CP-1	CONDENSATE PUMP	6.0	10	0.2A	208/1/60	ASPEN MAXI ORANGE (SUPPLIED BY DS MANUFACTURER)	INSTALLED IN MANUFACTURER SUPPLIED SIDE SLEEVE. POWERED THROUGH DS UNIT.
CP-2	CONDENSATE PUMP	10	15	0.5A	120/1/60	LITTLE GIANT VGM20	C/W ANTI-SIPHON KIT.

### VRF INDOOR SCHEDULE

Acceptable Manufacturers: Daikin, Mitsubishi, LG

Item	Type	Capacity tons	Cooling Capacity MBH	Heating Capacity MBH	Electrical Voltage	MCA	MOCOP	Manufacturer & Model	Remarks	
DS-15	WALL MOUNTED AC UNIT	2.0	635	24	26.5	208/1/60	0.6	15	DAIKIN FXAQ24PVJU	CONNECT TO CU-4
DS-16	WALL MOUNTED AC UNIT	1.0	290	12	13.5	208/1/60	0.4	15	DAIKIN FXA012PVJU	CONNECT TO CU-4
DS-17	WALL MOUNTED AC UNIT	2.0	635	24	26.5	208/1/60	0.6	15	DAIKIN FXAQ24PVJU	CONNECT TO CU-4
DS-18	WALL MOUNTED AC UNIT	2.0	635	24	26.5	208/1/60	0.6	15	DAIKIN FXAQ24PVJU	CONNECT TO CU-4
DS-19	WALL MOUNTED AC UNIT	2.0	635	24	26.5	208/1/60	0.6	15	DAIKIN FXAQ24PVJU	CONNECT TO CU-4
DS-20	WALL MOUNTED AC UNIT	2.0	635	24	26.5	208/1/60	0.6	15	DAIKIN FXAQ24PVJU	CONNECT TO CU-4

NOTE: ALL WALL MOUNTED DUCTLESS SPLIT UNITS SHALL BE PROVIDED WITH SIDE SLEEVE ACCESSORY TO CONCEAL POWER/CONTROL WIRING AND CONDENSATE PUMP.

### VRF BRANCH SELECTOR BOX SCHEDULE

Acceptable Manufacturers: Daikin, Mitsubishi, LG

Item	Type	Max. Port Capacity MBH	Electrical Voltage	MCA	MOCOP	Manufacturer & Model	Remarks
BSB-5A	4-PORT	144	208/1/60	0.4	15	DAIKIN BSF4Q54TAVJ	LOW PROFILE MODEL, MAX 250mm HEIGHT. CONNECT TO CU-5A
BSB-5B	4-PORT	144	208/1/60	0.4	15	DAIKIN BSF4Q54TAVJ	LOW PROFILE MODEL, MAX 250mm HEIGHT. CONNECT TO CU-5B

### VRF HEAT PUMP UNIT SCHEDULE

Acceptable Manufacturers: Daikin, Mitsubishi, LG

Item	Type	Nom. Tons	Cooling Capacity		Heating Capacity		COP @47F /17F	Refrigerant Type	Factory Charge lbs	Connected Capacity %	Electrical			Manufacturer & Model	Remarks
			Corrected* MBH @95F (db)	Rated MBH (Ducted)	Ambient Temp. F (db)	Corrected* MBH @Ambient					Voltage	MCA	MOP		
CU-4	VRF HEAT PUMP UNIT	10	117.8	11.1/19.3	47.0 -4.0 -13.0	131.9 76.7 67.1	3.4/2.3	R-410A	25.35	100.0	208/3/60	36.5	40	DAIKIN RXYQ120AATJ	C/W SNOW/WIND HOODS BY SAME MANUFACTURER, BIG FOOT STAND AND VIBRATION ISOLATION.
CU-5A	VRF HEAT PUMP UNIT	10	118.6	10.3/15.6	47.0 -4.0 -13.0	139.2 73.9 66.7	3.5/2.3	R-410A	25.79	100.0	575/3/60	18.2	25	DAIKIN REYQ120XBYCA	C/W SNOW/WIND HOODS BY SAME MANUFACTURER, BIG FOOT STAND AND VIBRATION ISOLATION.
CU-5B	VRF HEAT PUMP UNIT	10	118.6	10.3/15.6	47.0 -4.0 -13.0	139.2 73.9 66.7	3.5/2.3	R-410A	25.79	100.0	575/3/60	18.2	25	DAIKIN REYQ120XBYCA	C/W SNOW/WIND HOODS BY SAME MANUFACTURER, BIG FOOT STAND AND VIBRATION ISOLATION.

GENERAL VRF SYSTEM OUTDOOR UNIT NOTES:  
 1. EQUIPMENT EFFICIENCY INDICATED IN HEATING IS RATED COP AT TWO DIFFERENT OUTDOOR AIR TEMPERATURES FOR EQUIPMENT CONNECTED TO DUCTLESS INDOOR FAN COIL UNITS AND DUCTED INDOOR AIR HANDLING UNIT.  
 2. NOMINAL RATED COOLING AND HEATING CAPACITIES ARE RATED CAPACITIES FOR OUTDOOR EQUIPMENT RATED IN ACCORDANCE WITH AHRI 1230.  
 3. CORRECTED COOLING AND HEATING CAPACITIES ARE MINIMUM PERMITTED CAPACITIES AS CORRECTED FOR SPECIFIC SYSTEM GEOMETRY.

### FAN SCHEDULE

Acceptable Manufacturers: Greenheck, Penn-Barry, Cook, Carnes, ACME, Twin City, Jenco, Buffalo.

Item	Type	Capacity cfm	ESP in wc	Fan Speed rpm	Motor hp	Voltage	Acceptable Manufacturer	Description
EF-20	ROOF EXHAUST FAN (W/Re)	800	1.0	1486	1/3	120/1/60	GREENHECK GB100	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, DOWN DISCHARGE, W/BELT DRIVE CENTRIFUGAL BACKWARD INCLINED FAN, GALV BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, & BACKDRAFT DAMPER

GENERAL FAN NOTES:  
 1. ACCEPTABLE MANUFACTURERS: GREENHECK, PENN-BARRY, COOK, CARNES, ACME, TWIN CITY, JENCO, BUFFALO. (CEILING FANS: BROAN, GREENHECK, ZONEX)  
 2. PROVIDE 24" TALL PREFABRICATED, INSULATED ROOF CURB FOR ALL ROOF MOUNTED FANS.

### GRILLE SCHEDULE

Acceptable Manufacturers: Multicore, Eh Price, Nailor, Titus, Krueger, Carnes, Metalaire, Tuttle & Bailey

Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
D1	SQUARE CEILING DIFFUSER	YES	NONE	EH PRICE SCDA	MULTICORE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK, SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME.
E1	EXHAUST GRILLE (DUCTED)	NO	YES	EH PRICE 80-FA	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING. PROVIDE FIRE FLAP.

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).

### LOUVERED PENTHOUSE SCHEDULE

Acceptable Manufacturers: Ventex

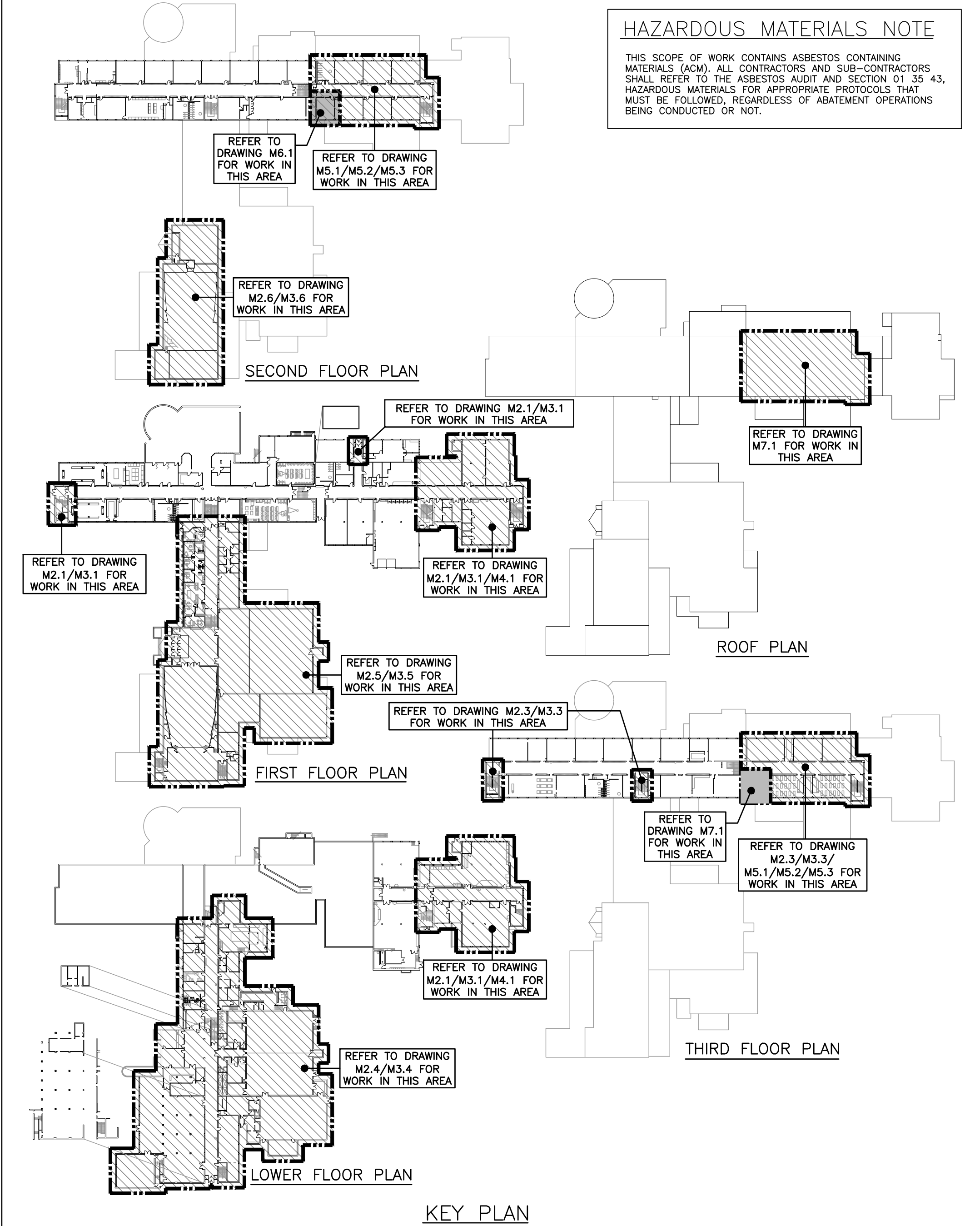
No.	Type	CFM	SP	Throat (in.)	Height (in.)	Manufacturer & Model	Remarks
1	EXHAUST	6000	0.10	72x18	20	VENTEX PH2425B	18" HIGH ROOF CURB

### MECHANICAL LEGEND

Item	Description	Item	Description
----	ITEM TO BE REMOVED		BUTTERFLY VALVE
---	CUT EXISTING & CONNECT NEW PIPING	NC	3-WAY MIXING VALVE
▶	FLOW DIRECTION	NO	3-WAY DIVERTING VALVE
--SAN-EX--	EXISTING SAN ABOVE FLOOR	⊞	MOTORIZED VALVE ACTUATOR
--SAN-EX--	EXISTING SAN BELOW FLOOR	⊞	CONTROL VALVE ACTUATOR
--SAN--	SANITARY ABOVE FLOOR	⊞	SOLENOID VALVE
--SAN--	SANITARY BELOW FLOOR	⊞	VALVE ON RISER
--STM-EX--	EXISTING STM ABOVE FLOOR	⊞	BALANCING VALVE
--STM-EX--	EXISTING STM BELOW FLOOR	⊞	INLINE PUMP
--STM--	STORM ABOVE FLOOR	TCV	2-WAY TEMPERATURE CONTROL VALVE
--STM--	STORM BELOW FLOOR	TCV	3-WAY TEMPERATURE CONTROL VALVE
--CD--	CONDENSATE DRAIN	CO	FLOOR CLEANOUT
--V--	VENT	CO	LINE CLEANOUT
RL	REFRIGERANT LIQUID	⊞	THERMOMETER
RS	REFRIGERANT SUCTION	FS	FLOW SWITCH
FD	FLOOR DRAIN	⊞	THERMOSTAT (WITH GUARD WHERE INDICATED)
---	TRAP PRIMER	→→→→	TURNING VANES
---	TRAP GUARD	⊞	SUPPLY AIR DUCT
---	TEE CONNECTION	⊞	RETURN/EXHAUST AIR DUCT
---	PIPE DOWN	⊞	ACOUSTIC DUCT LINING
---	PIPE UP	⊞	THERMAL INSULATION
---	FLEXIBLE CONNECTION	BD	BALANCING DAMPER
---	REDUCER/INCREASER	⊞	MOTORIZED DAMPER
---	CHECK VALVE	FD	FIRE DAMPER
---	DOUBLE CHECK BACKFLOW PREVENTOR	FSD	FIRE/SMOKE DAMPER
---	REDUCED PRESSURE BACKFLOW PREVENTOR	FF	FIRE FLAP
---	UNION	⊞	RECTANGULAR DUCTWORK
---	STRAINER	⊞	RIGID ROUND DUCT
---	SCREWED OR WELDED PIPE CAP	⊞	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
NO	NORMALLY OPEN	RIC	RETURN IN CABINET
NC	NORMALLY CLOSED	AFF	ABOVE FINISHED FLOOR
---	BALL VALVE	AFR	ABOVE FINISHED ROOF
---	GATE VALVE	---	EXISTING DUCT (SIZE AS INDICATED)
---	GLOBE VALVE	---	TRANSFER DUCT (SIZE AS INDICATED)

### GENERAL NOTES

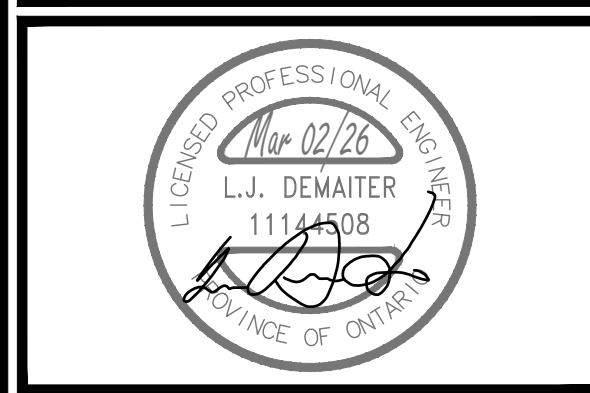
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- THIS CONTRACTOR SHALL TRACK REVISIONS ON SITE AND SUBMIT AS-BUILTS TO CONSULTANT TO DIGITIZE. REFER TO SPECIFICATION 20 02 51.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A 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.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.
- CO-ORDINATE WITH THE GENERAL CONTRACTOR ANY OWSJ BRIDGING/CROSS BRACING RELOCATION OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.
- 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:  
 - TSSA CERTIFICATE OF AUTHORIZATION FOR SPLIT AIR CONDITIONING SYSTEMS (EXCEEDING 5 TONS)  
 ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.



**HAZARDOUS MATERIALS NOTE**  
 THIS SCOPE OF WORK CONTAINS ASBESTOS CONTAINING MATERIALS (ACM). ALL CONTRACTORS AND SUB-CONTRACTORS SHALL REFER TO THE ASBESTOS AUDIT AND SECTION 01 35 43, HAZARDOUS MATERIALS FOR APPROPRIATE PROTOCOLS THAT MUST BE FOLLOWED, REGARDLESS OF ABATEMENT OPERATIONS BEING CONDUCTED OR NOT.

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. © 2026 DEI Consulting Engineers Inc.

No.	REVISIONS	DATE



ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



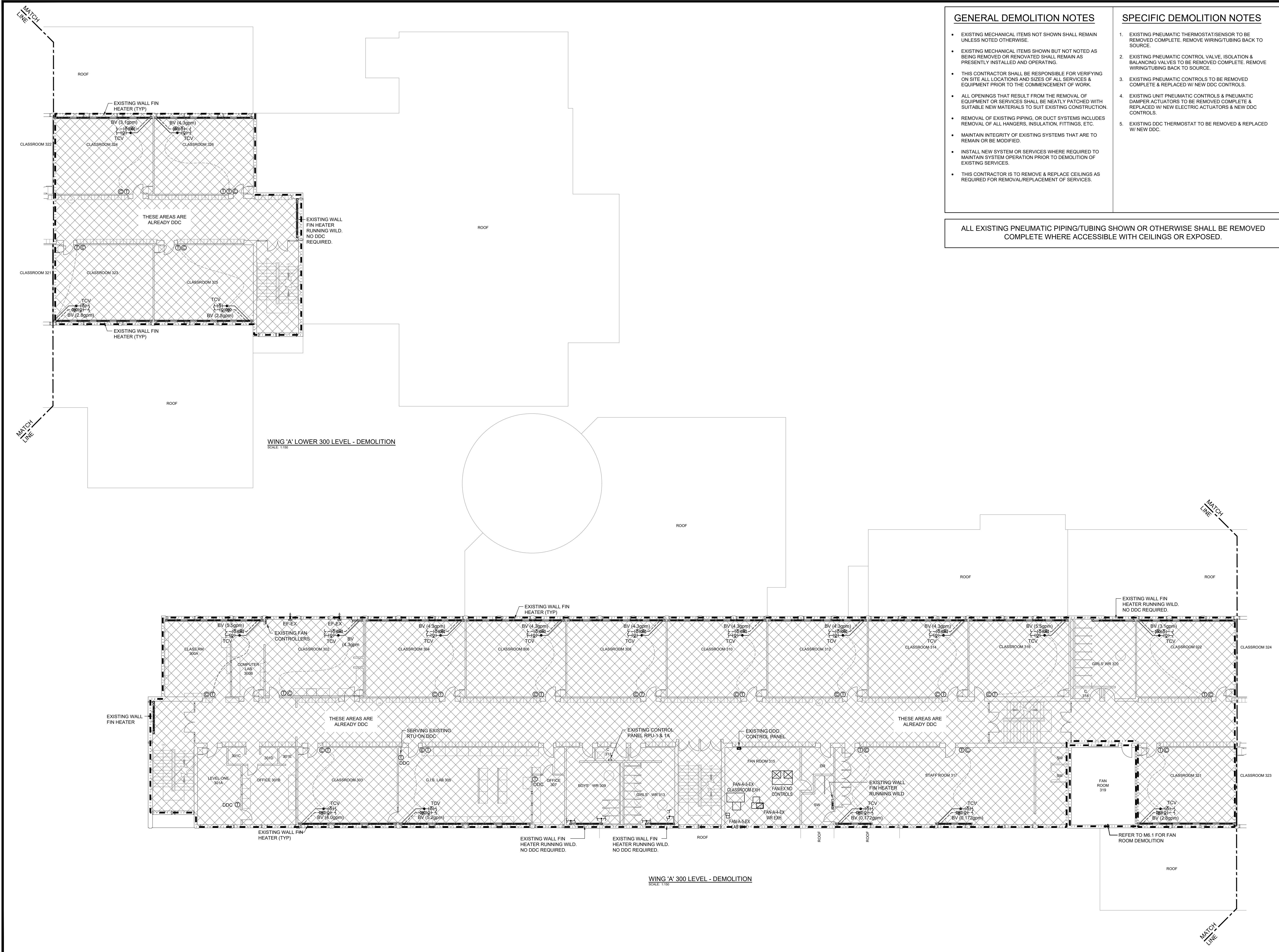
PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
 300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**GENERAL NOTES, LEGEND & SCHEDULES**

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	24x36
PROJECT NUMBER	2025-153

**M1.1**





**GENERAL DEMOLITION NOTES**

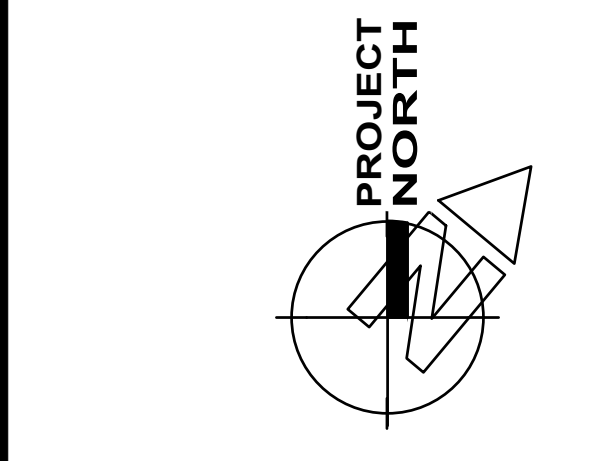
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & 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.
- 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**

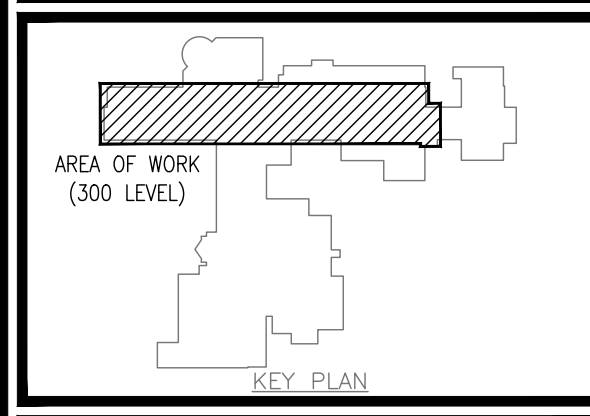
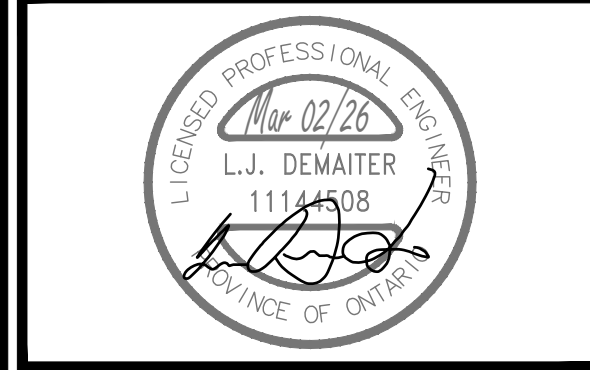
- EXISTING PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
- EXISTING VALVES TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
- EXISTING PNEUMATIC CONTROLS TO BE REMOVED COMPLETE & REPLACED W/ NEW DDC CONTROLS.
- EXISTING UNIT PNEUMATIC CONTROLS & PNEUMATIC DAMPER ACTUATORS TO BE REMOVED COMPLETE & REPLACED W/ NEW ELECTRIC ACTUATORS & NEW DDC CONTROLS.
- EXISTING DDC THERMOSTAT TO BE REMOVED & REPLACED W/ NEW DDC.

ALL EXISTING PNEUMATIC PIPING/TUBING SHOWN OR OTHERWISE SHALL BE REMOVED COMPLETE WHERE ACCESSIBLE WITH CEILINGS OR EXPOSED.

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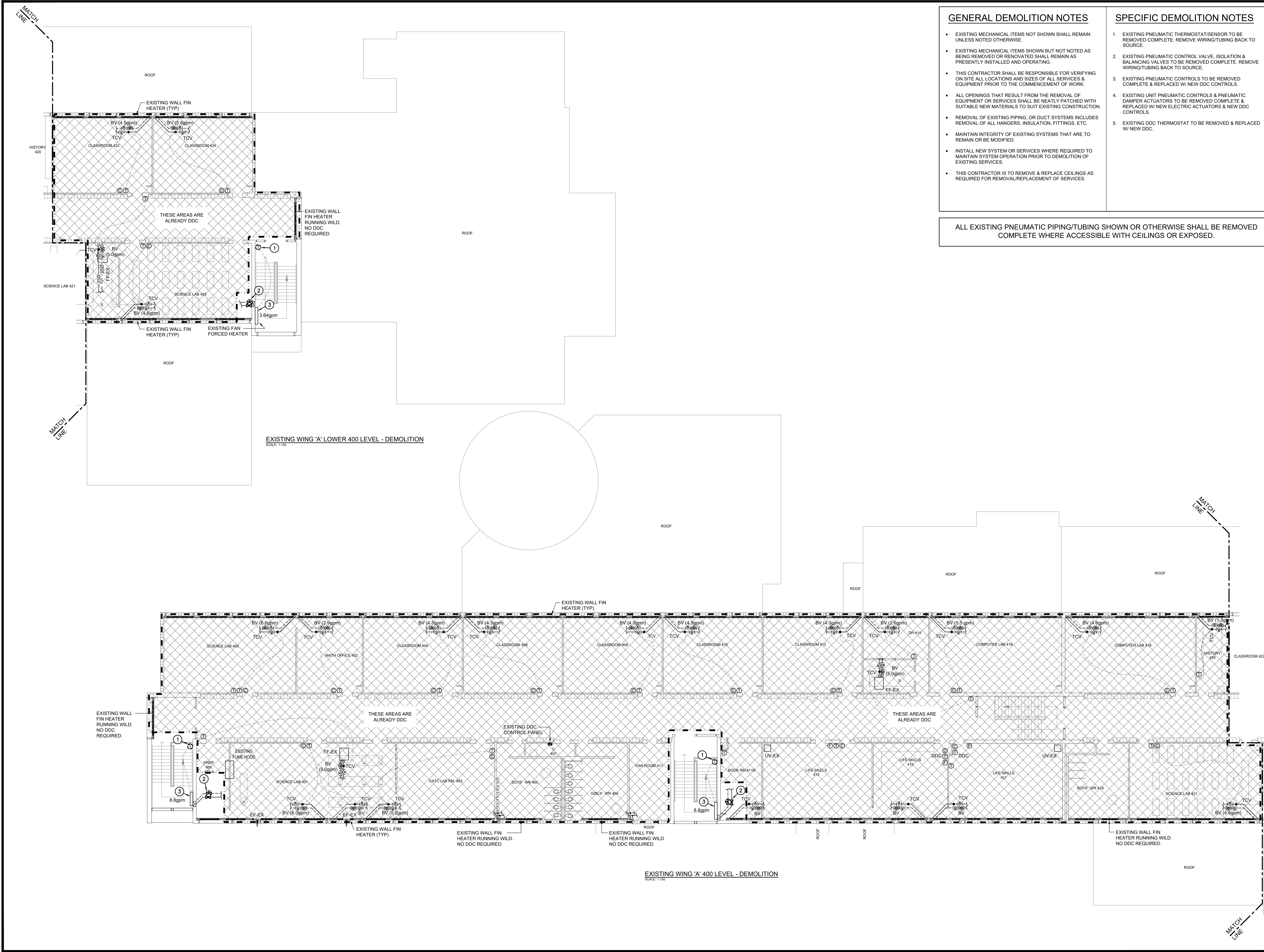
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PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**300 LEVEL PLAN WING A DDC DEMOLITION**

SCALE AS NOTED	DRAWING NUMBER <b>M2.2</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153



EXISTING WING 'A' LOWER 400 LEVEL - DEMOLITION  
SCALE: 1/32"

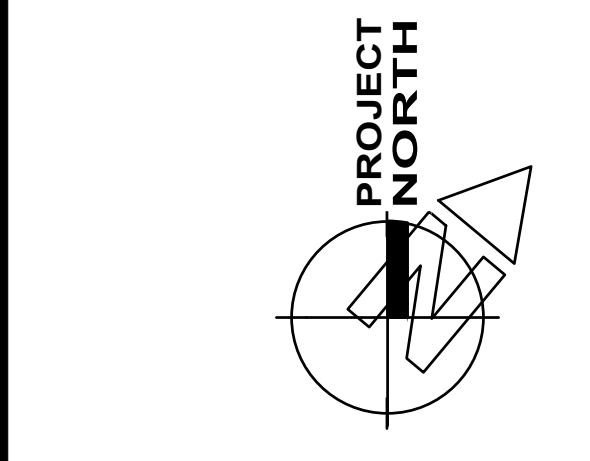
EXISTING WING 'A' 400 LEVEL - DEMOLITION  
SCALE: 1/32"

- ### GENERAL DEMOLITION NOTES
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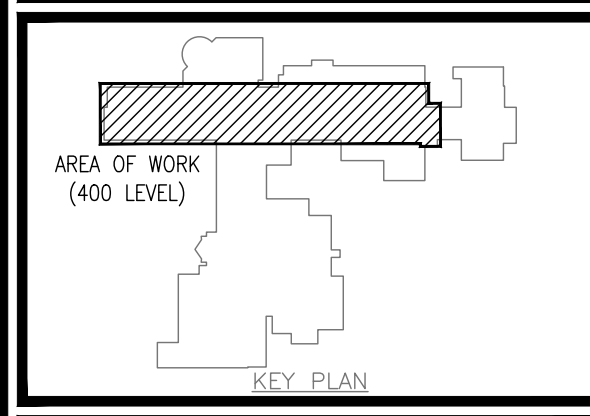
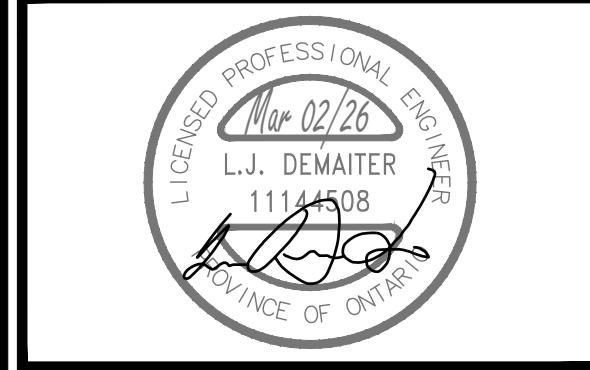
- ### SPECIFIC DEMOLITION NOTES
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  - EXISTING PNEUMATIC CONTROL VALVE, ISOLATION & BALANCING VALVES TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
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PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**400 LEVEL PLAN WING A DDC DEMOLITION**

SCALE AS NOTED	DRAWING NUMBER <b>M2.3</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153

**GENERAL DEMOLITION NOTES**

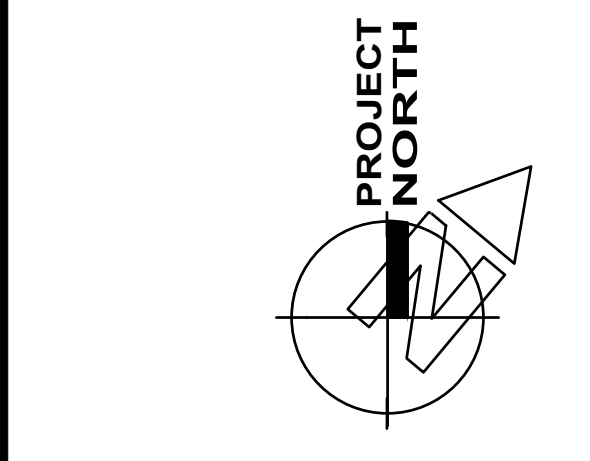
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**SPECIFIC DEMOLITION NOTES**

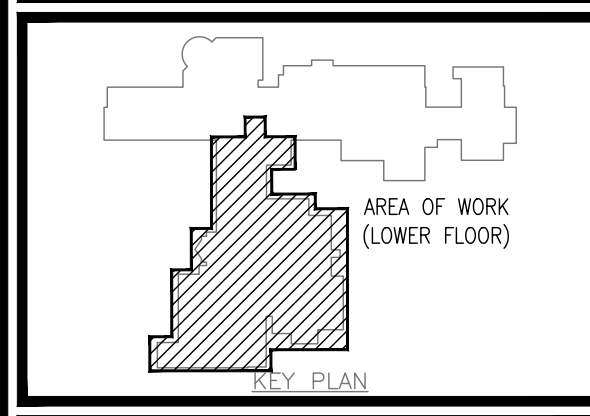
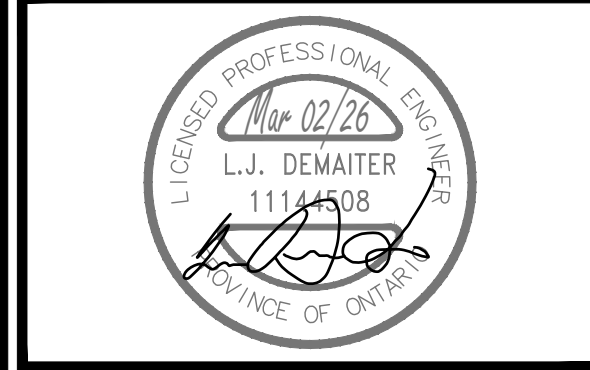
- EXISTING PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
- EXISTING PNEUMATIC CONTROL VALVE, ISOLATION & BALANCING VALVES TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
- EXISTING PNEUMATIC CONTROLS TO BE REMOVED COMPLETE & REPLACED W/ NEW DDC CONTROLS.
- EXISTING UNIT PNEUMATIC CONTROLS & PNEUMATIC DAMPER ACTUATORS TO BE REMOVED COMPLETE & REPLACED W/ NEW ELECTRIC ACTUATORS & NEW DDC CONTROLS.
- EXISTING DDC THERMOSTAT TO BE REMOVED & REPLACED W/ NEW DDC.
- EXISTING AIR COMPRESSOR, AIR DRYER AND ALL ASSOCIATED COMPRESSED AIR LINES TO BE REMOVED COMPLETE. THIS WORK SHALL COMMENCE ONCE ALL PNEUMATIC CONTROLS ARE REMOVED AND REPLACED WITH DDC CONTROLS.

ALL EXISTING PNEUMATIC PIPING/TUBING SHOWN OR OTHERWISE SHALL BE REMOVED COMPLETE WHERE ACCESSIBLE WITH CEILINGS OR EXPOSED.

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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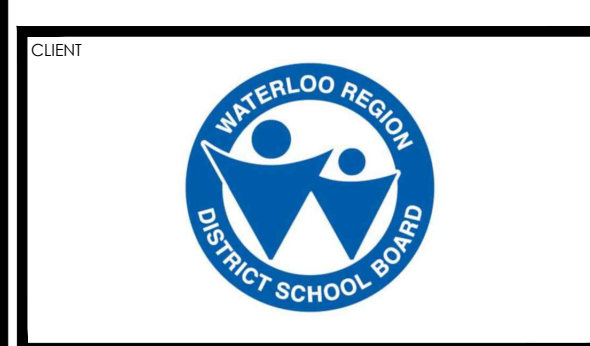
No.	REVISIONS	DATE



ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE

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Consulting Engineers  
MECHANICAL | ELECTRICAL | AQUATIC

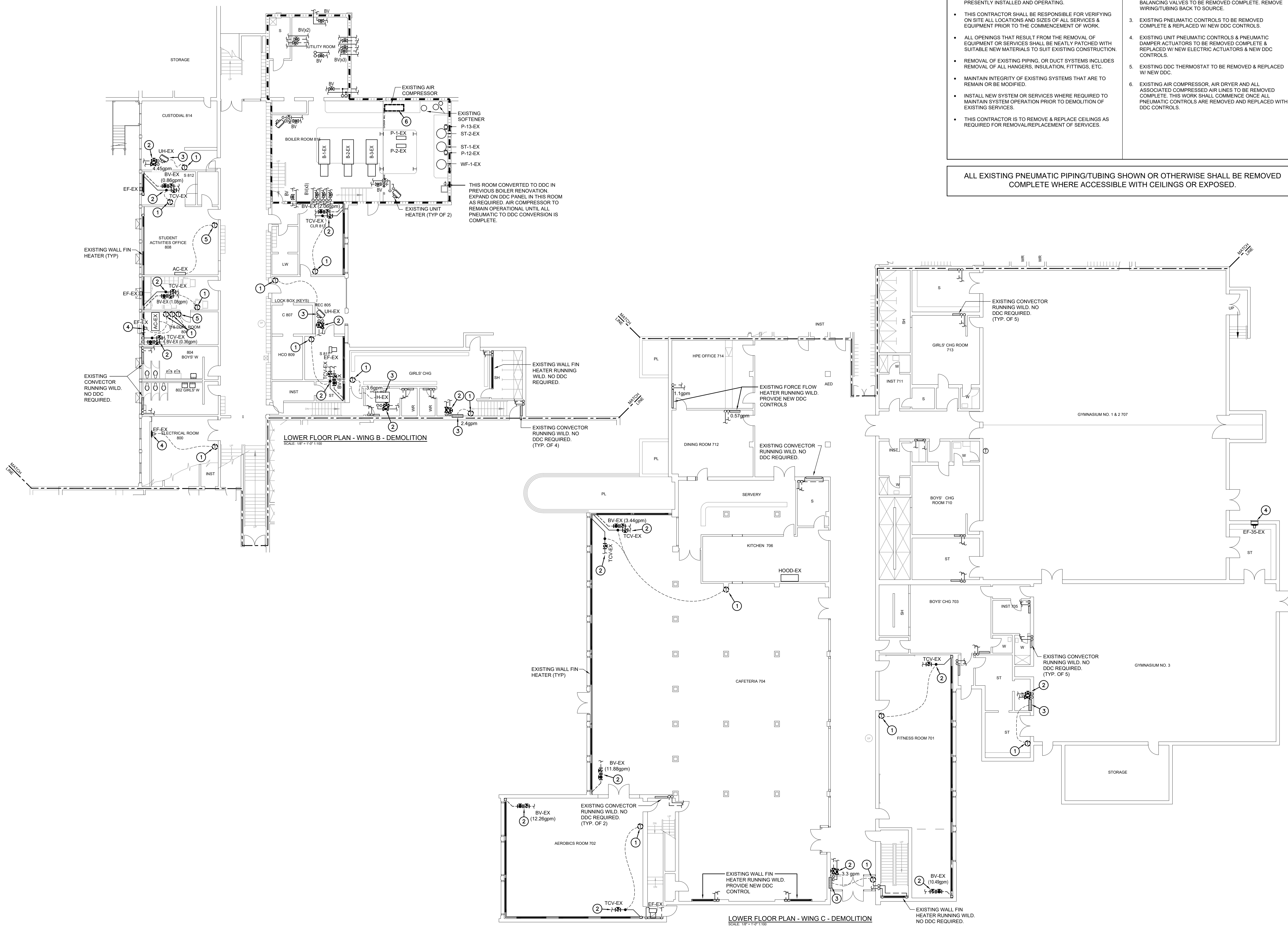
55 Northland Road,  
Waterloo, ON, N2V 1Y8  
Phone: 519-753-2855  
Website: deiconsultants.ca  
Project Number: 25497



PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**LOWER FLOOR PLAN WING B & C DDC DEMOLITION**

SCALE AS NOTED	DRAWING NUMBER <b>M2.4</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153



LOWER FLOOR PLAN - WING B - DEMOLITION  
SCALE: 1/8" = 1'-0"

LOWER FLOOR PLAN - WING C - DEMOLITION  
SCALE: 1/8" = 1'-0"

**GENERAL DEMOLITION NOTES**

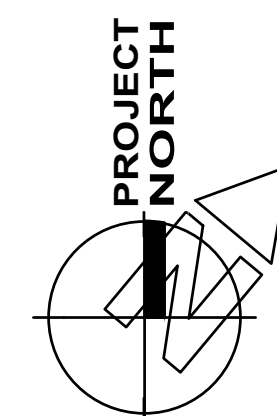
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & 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.
- 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 CEILING AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

**SPECIFIC DEMOLITION NOTES**

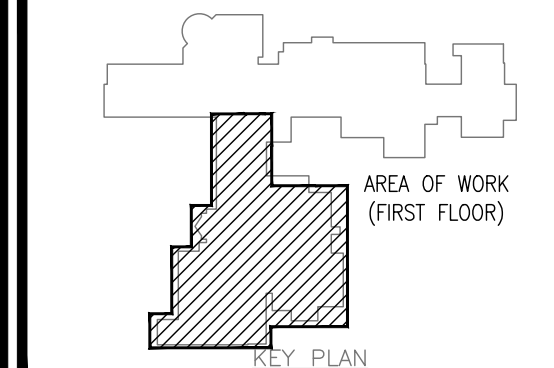
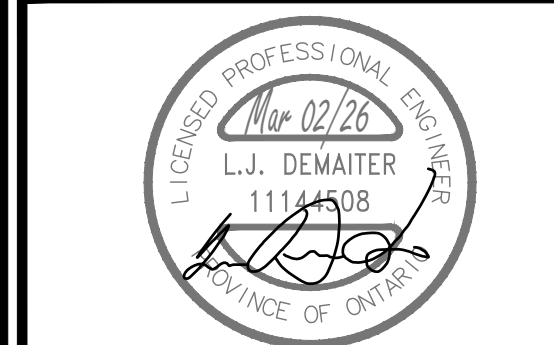
- EXISTING PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
- EXISTING VALVES TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
- EXISTING PNEUMATIC CONTROLS TO BE REMOVED COMPLETE & REPLACED W/ NEW DDC CONTROLS.
- EXISTING UNIT PNEUMATIC CONTROLS & PNEUMATIC DAMPER ACTUATORS TO BE REMOVED COMPLETE & REPLACED W/ NEW ELECTRIC ACTUATORS & NEW DDC CONTROLS.
- EXISTING DDC THERMOSTAT TO BE REMOVED & REPLACED W/ NEW DDC.

ALL EXISTING PNEUMATIC PIPING/TUBING SHOWN OR OTHERWISE SHALL BE REMOVED COMPLETE WHERE ACCESSIBLE WITH CEILINGS OR EXPOSED.

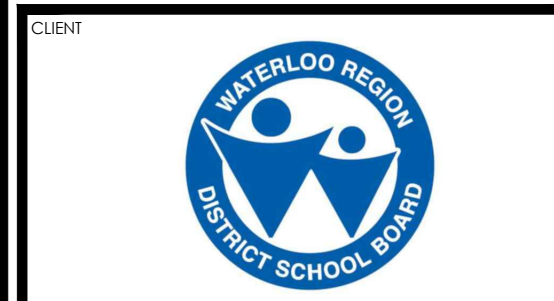
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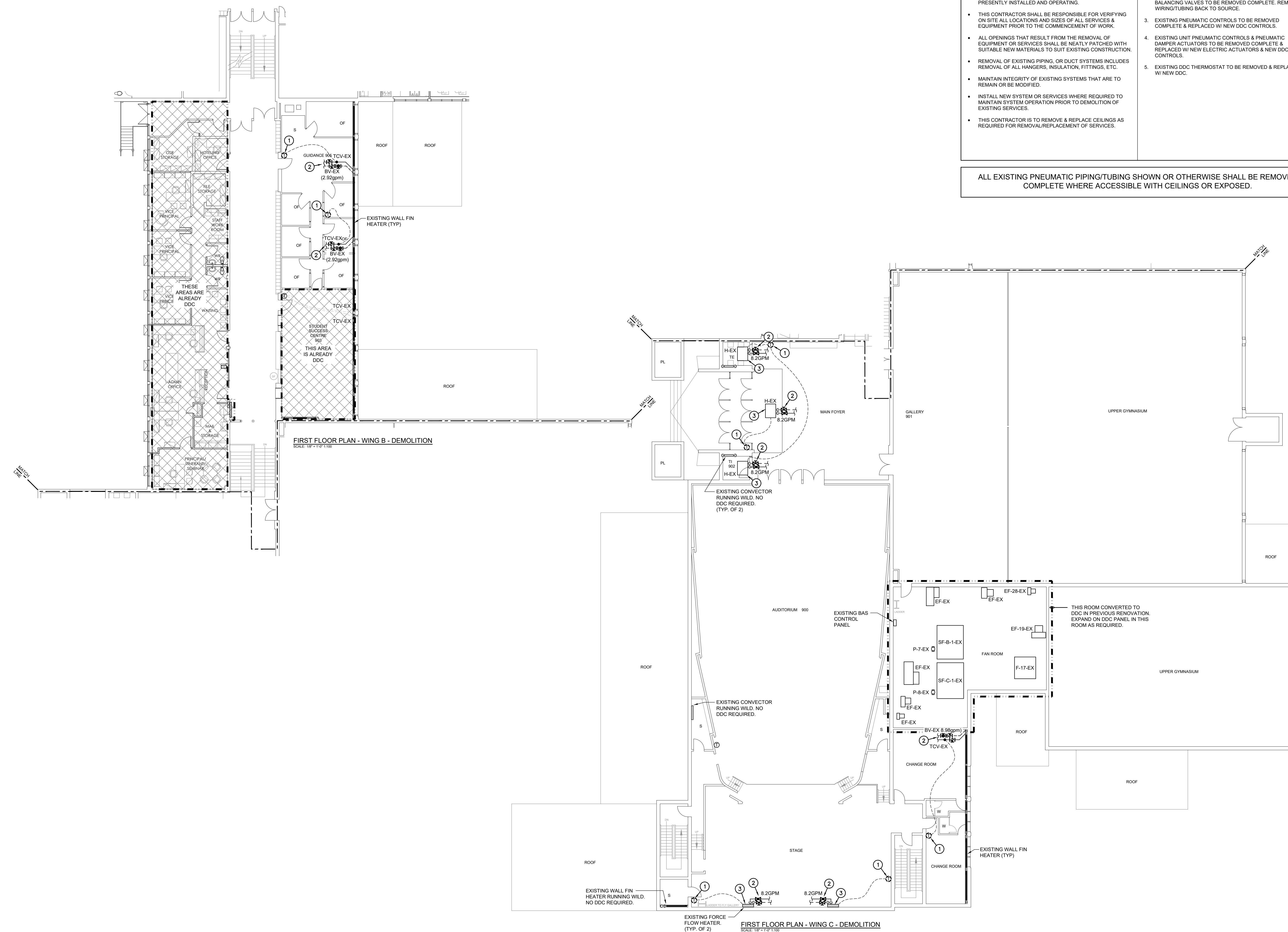
ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**FIRST FLOOR PLAN WING B & C DDC DEMOLITION**

SCALE AS NOTED	DRAWING NUMBER <b>M2.5</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153



**GENERAL DEMOLITION NOTES**

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- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
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**SPECIFIC DEMOLITION NOTES**

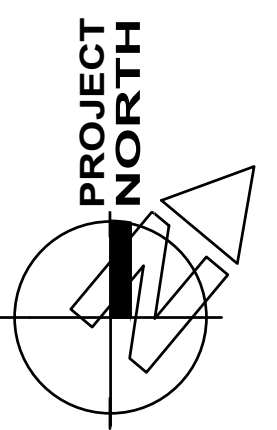
- EXISTING PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
- EXISTING PNEUMATIC CONTROL VALVE, ISOLATION & BALANCING VALVES TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE.
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- EXISTING UNIT PNEUMATIC CONTROLS & PNEUMATIC DAMPER ACTUATORS TO BE REMOVED COMPLETE & REPLACED W/ NEW ELECTRIC ACTUATORS & NEW DDC CONTROLS.
- EXISTING DDC THERMOSTAT TO BE REMOVED & REPLACED W/ NEW DDC.

ALL EXISTING PNEUMATIC PIPING/TUBING SHOWN OR OTHERWISE SHALL BE REMOVED COMPLETE WHERE ACCESSIBLE WITH CEILINGS OR EXPOSED.

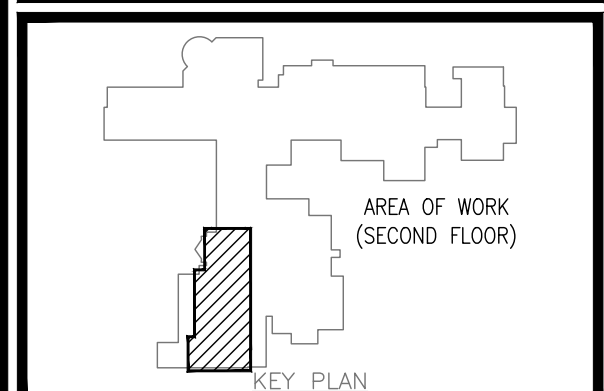
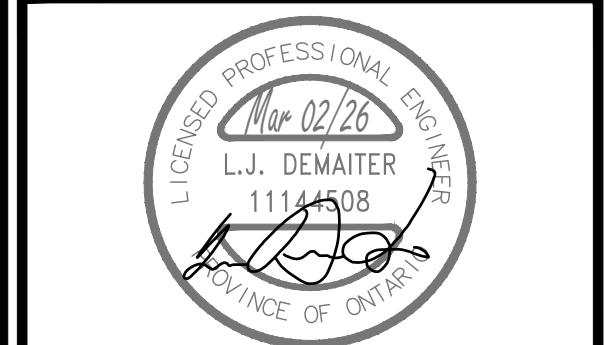


SECOND FLOOR PLAN - WING C - DEMOLITION  
SCALE: 1/8" = 1'-0"

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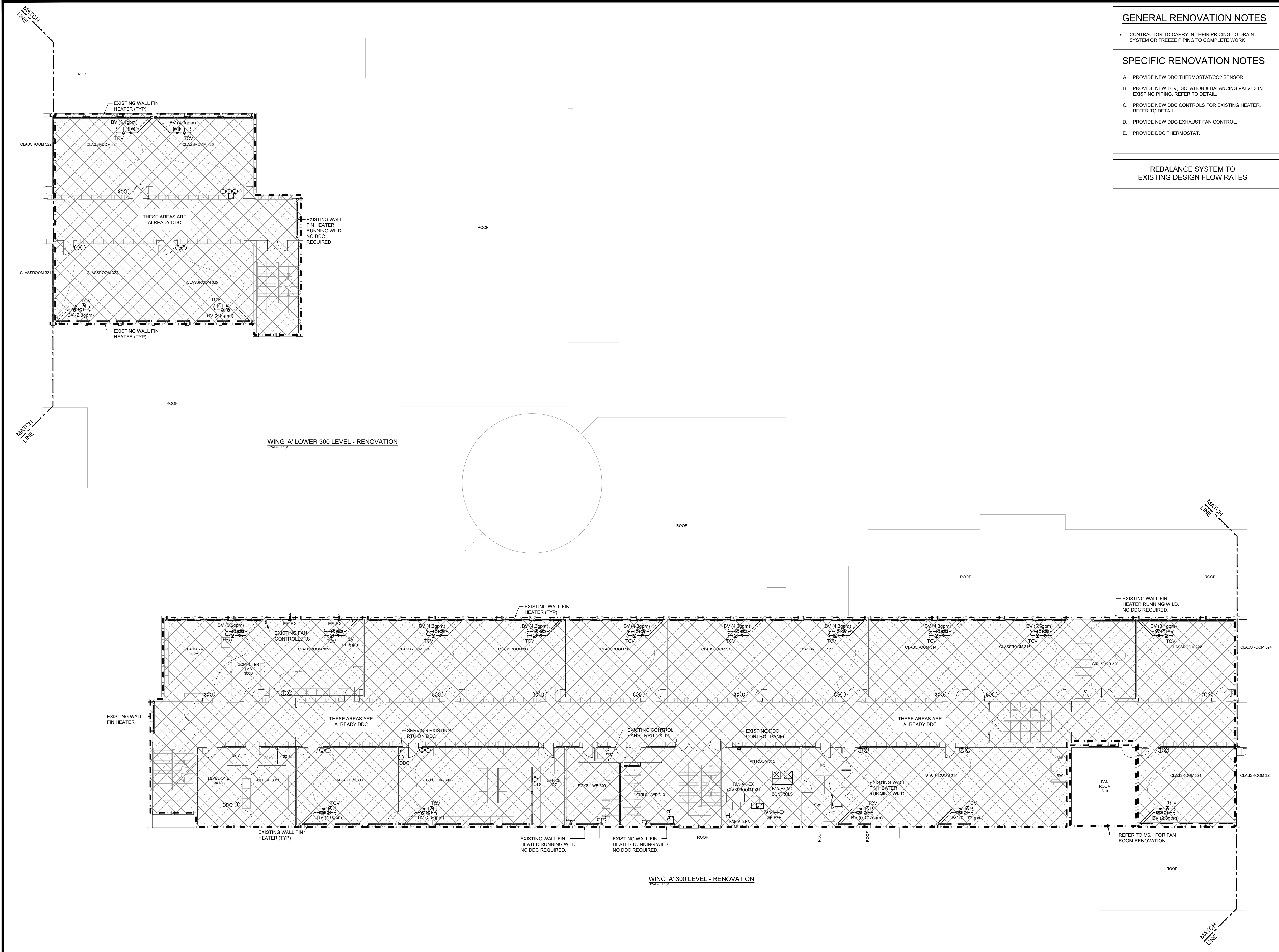


PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**SECOND FLOOR PLAN WING C DDC DEMOLITION**

SCALE AS NOTED	DRAWING NUMBER <b>M2.6</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153





WING 'A' LOWER 300 LEVEL - RENOVATION  
SCALE: 1/8" = 1'-0"

WING 'A' 300 LEVEL - RENOVATION  
SCALE: 1/8" = 1'-0"

**GENERAL RENOVATION NOTES**

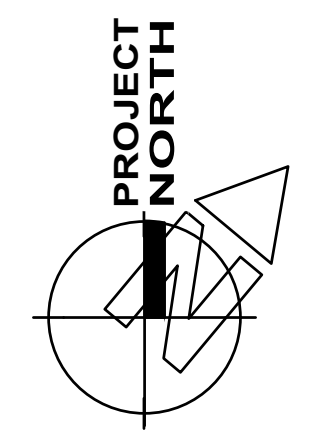
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

**SPECIFIC RENOVATION NOTES**

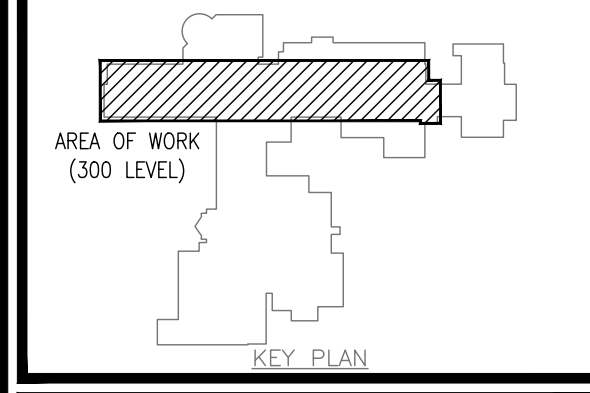
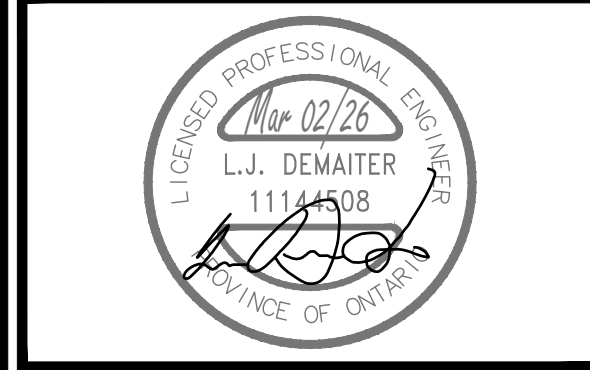
- PROVIDE NEW DDC THERMOSTAT/CO2 SENSOR.
- PROVIDE NEW TCV, ISOLATION & BALANCING VALVES IN EXISTING PIPING. REFER TO DETAIL.
- PROVIDE NEW DDC CONTROLS FOR EXISTING HEATER. REFER TO DETAIL.
- PROVIDE NEW DDC EXHAUST FAN CONTROL.
- PROVIDE DDC THERMOSTAT.

REBALANCE SYSTEM TO EXISTING DESIGN FLOW RATES

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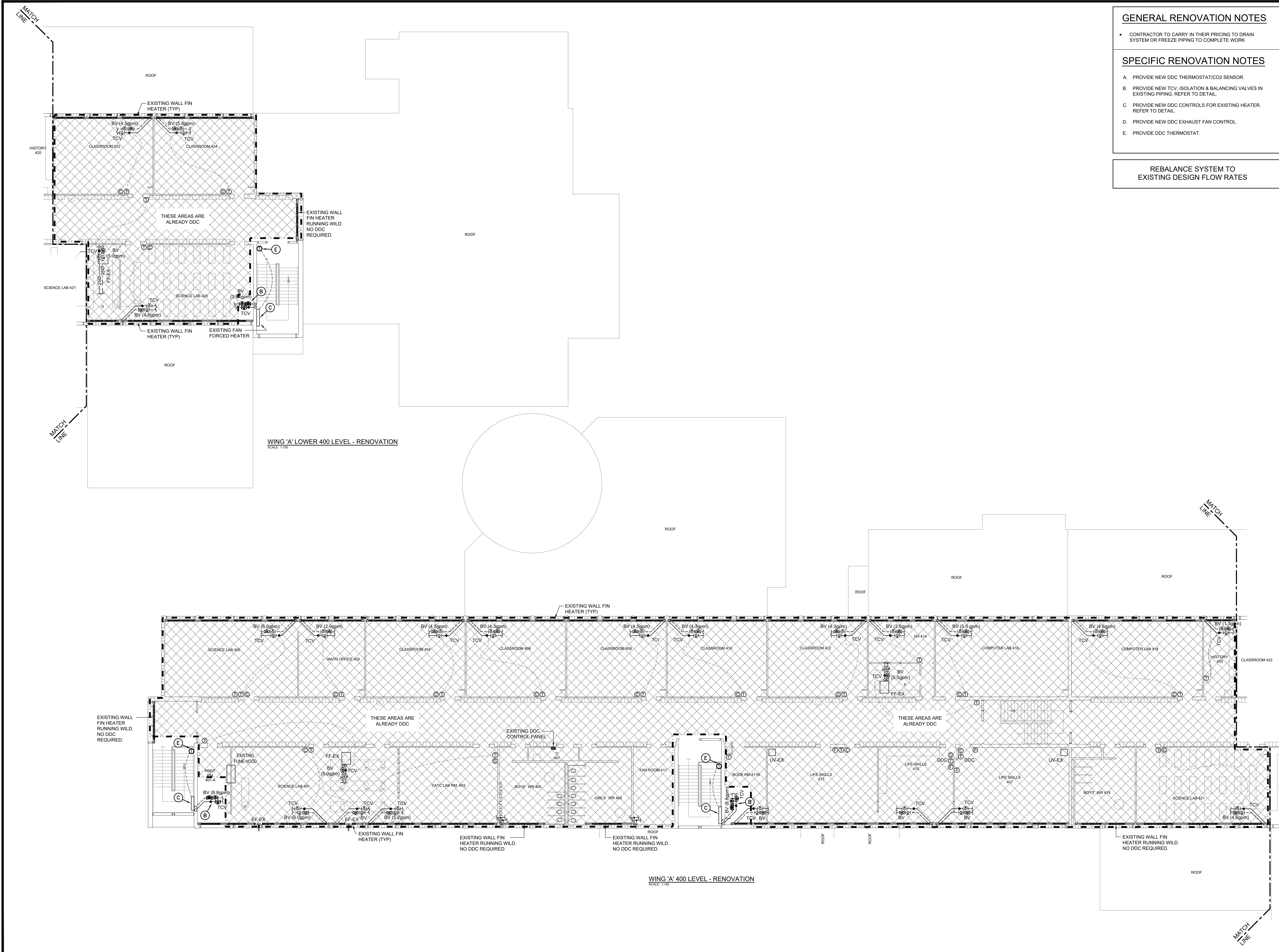
ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**300 LEVEL PLAN WING A DDC RENOVATION**

SCALE AS NOTED	DRAWING NUMBER <b>M3.2</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153



WING 'A' LOWER 400 LEVEL - RENOVATION  
SCALE: 1/16"

WING 'A' 400 LEVEL - RENOVATION  
SCALE: 1/16"

**GENERAL RENOVATION NOTES**

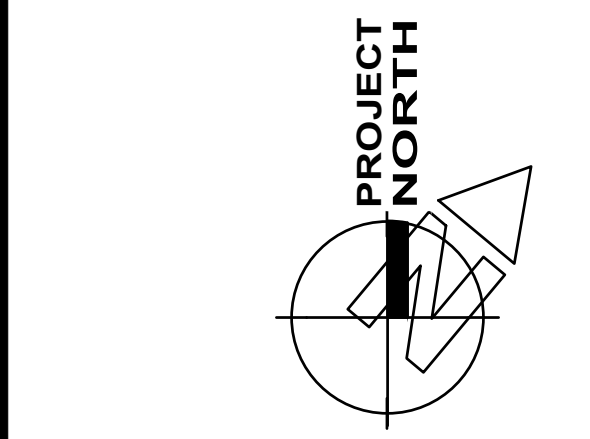
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

**SPECIFIC RENOVATION NOTES**

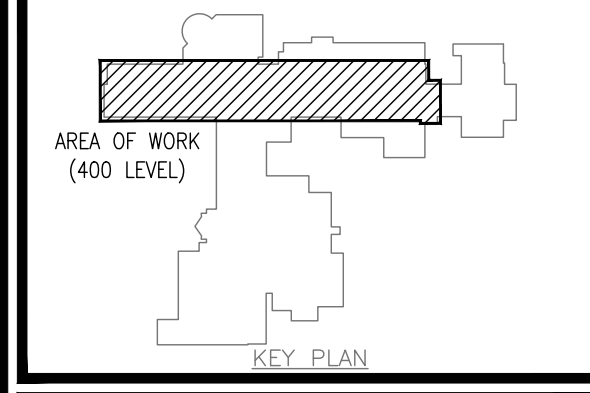
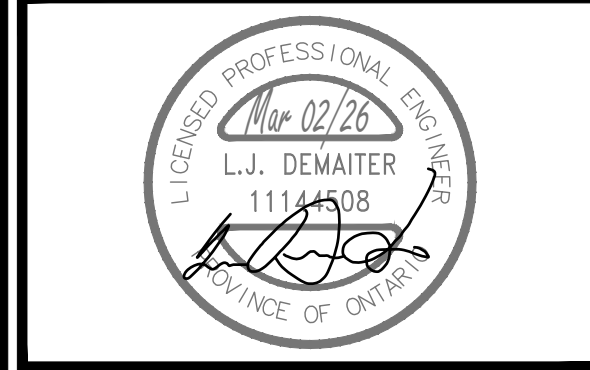
- PROVIDE NEW DDC THERMOSTAT/CO2 SENSOR.
- PROVIDE NEW TCV, ISOLATION & BALANCING VALVES IN EXISTING PIPING. REFER TO DETAIL.
- PROVIDE NEW DDC CONTROLS FOR EXISTING HEATER. REFER TO DETAIL.
- PROVIDE NEW DDC EXHAUST FAN CONTROL.
- PROVIDE DDC THERMOSTAT.

REBALANCE SYSTEM TO EXISTING DESIGN FLOW RATES

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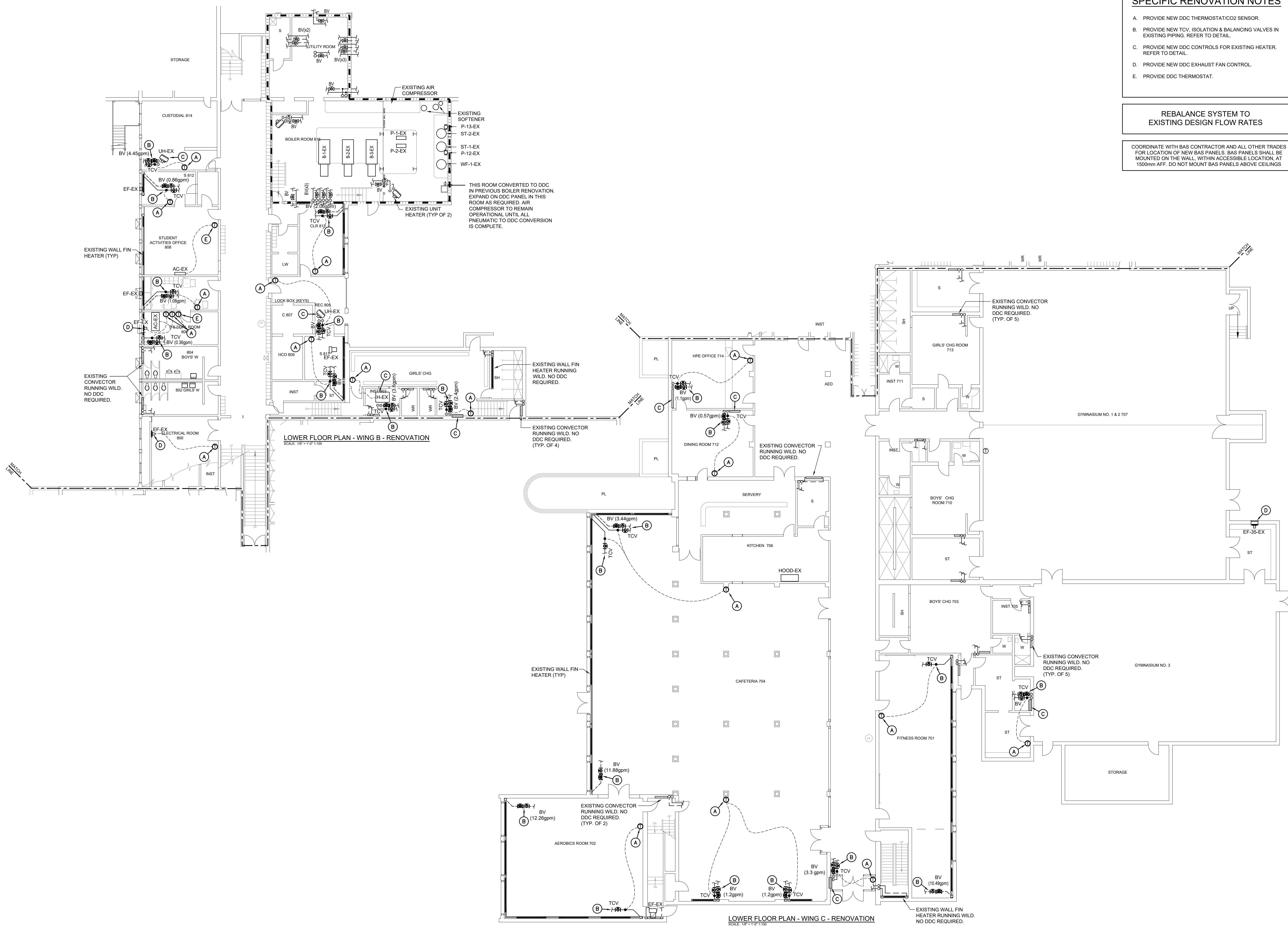
ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**400 LEVEL PLAN WING A DDC RENOVATION**

SCALE AS NOTED	DRAWING NUMBER <b>M3.3</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153



**GENERAL RENOVATION NOTES**

- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

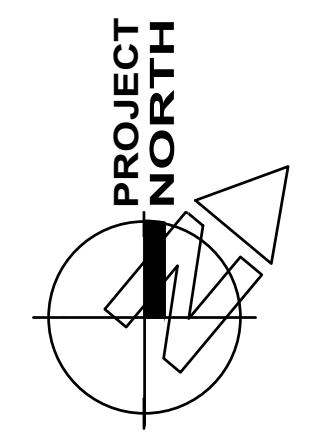
**SPECIFIC RENOVATION NOTES**

- A. PROVIDE NEW DDC THERMOSTAT/CO2 SENSOR.
- B. PROVIDE NEW TCV, ISOLATION & BALANCING VALVES IN EXISTING PIPING. REFER TO DETAIL.
- C. PROVIDE NEW DDC CONTROLS FOR EXISTING HEATER. REFER TO DETAIL.
- D. PROVIDE NEW DDC EXHAUST FAN CONTROL.
- E. PROVIDE DDC THERMOSTAT.

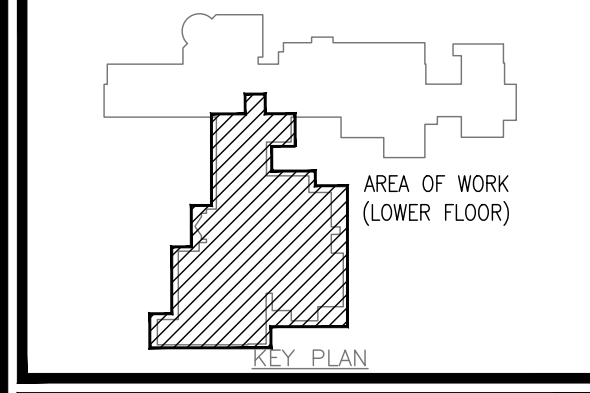
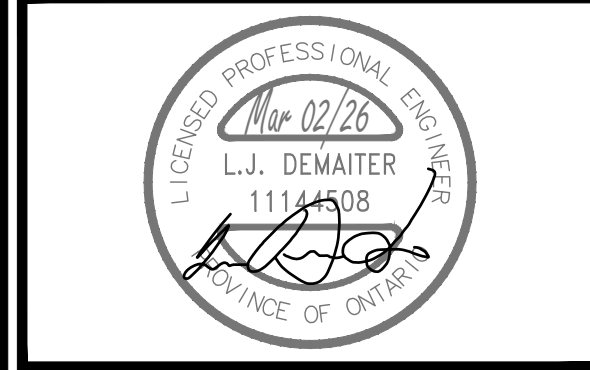
**REBALANCE SYSTEM TO EXISTING DESIGN FLOW RATES**

COORDINATE WITH BAS CONTRACTOR AND ALL OTHER TRADES FOR LOCATION OF NEW BAS PANELS. BAS PANELS SHALL BE MOUNTED ON THE WALL, WITHIN ACCESSIBLE LOCATION, AT 1500mm AFF. DO NOT MOUNT BAS PANELS ABOVE CEILINGS

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. © 2026 DEI Consulting Engineers Inc.



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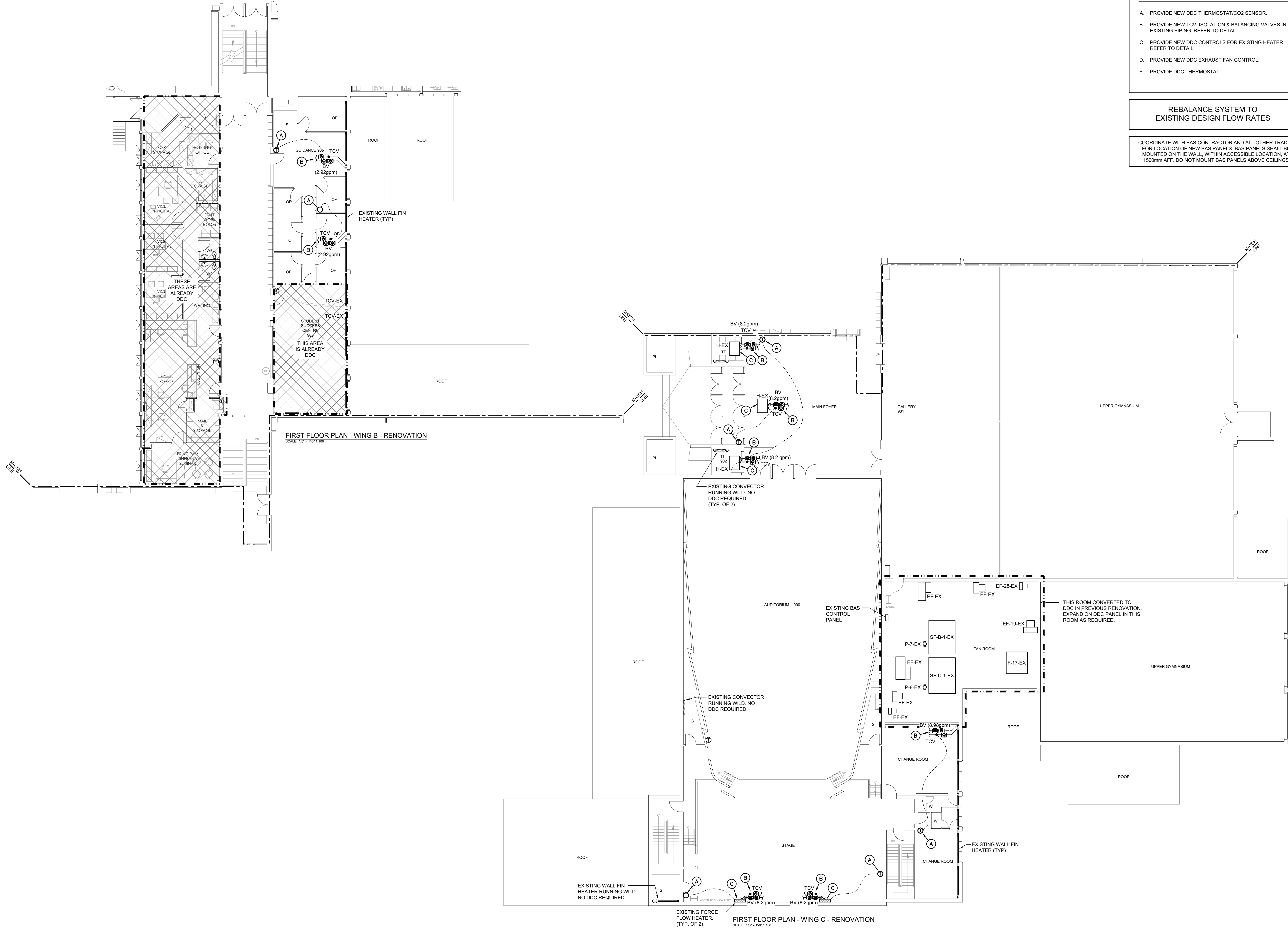
ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
 300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**LOWER FLOOR PLAN WING B & C DDC RENOVATION**

SCALE AS NOTED	DRAWING NUMBER <b>M3.4</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153



**GENERAL RENOVATION NOTES**

- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

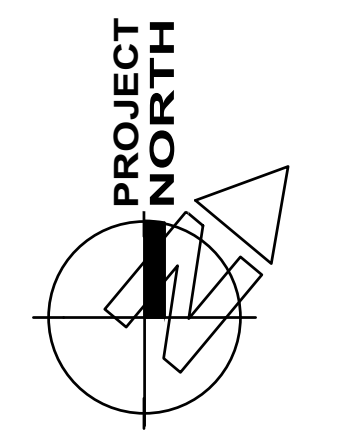
**SPECIFIC RENOVATION NOTES**

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- PROVIDE NEW TCV, ISOLATION & BALANCING VALVES IN EXISTING PIPING. REFER TO DETAIL.
- PROVIDE NEW DDC CONTROLS FOR EXISTING HEATER. REFER TO DETAIL.
- PROVIDE NEW DDC EXHAUST FAN CONTROL.
- PROVIDE DDC THERMOSTAT.

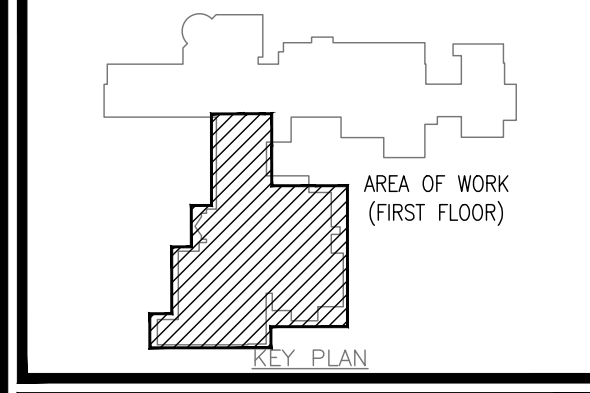
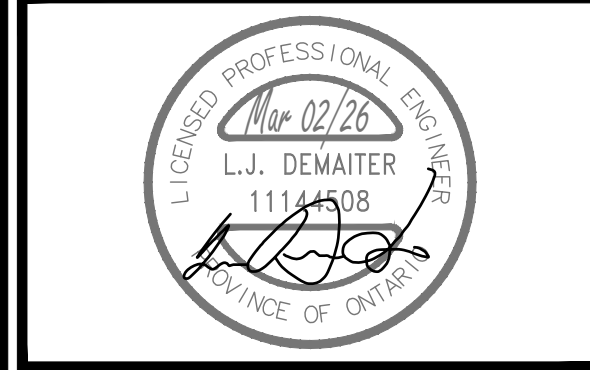
**REBALANCE SYSTEM TO EXISTING DESIGN FLOW RATES**

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No.	REVISIONS	DATE



ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**FIRST FLOOR PLAN WING B & C DDC RENOVATION**

SCALE AS NOTED	DRAWING NUMBER <b>M3.5</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153

**GENERAL RENOVATION NOTES**

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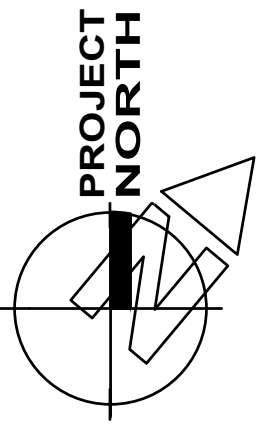
**SPECIFIC RENOVATION NOTES**

- A. PROVIDE NEW DDC THERMOSTAT/CO2 SENSOR.
- B. PROVIDE NEW TCV, ISOLATION & BALANCING VALVES IN EXISTING PIPING. REFER TO DETAIL.
- C. PROVIDE NEW DDC CONTROLS FOR EXISTING HEATER. REFER TO DETAIL.
- D. PROVIDE NEW DDC EXHAUST FAN CONTROL.
- E. PROVIDE DDC THERMOSTAT.

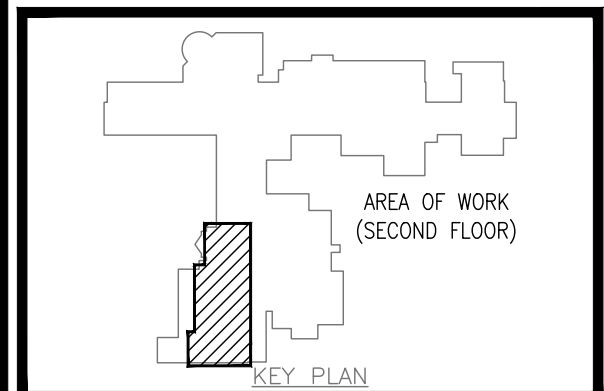
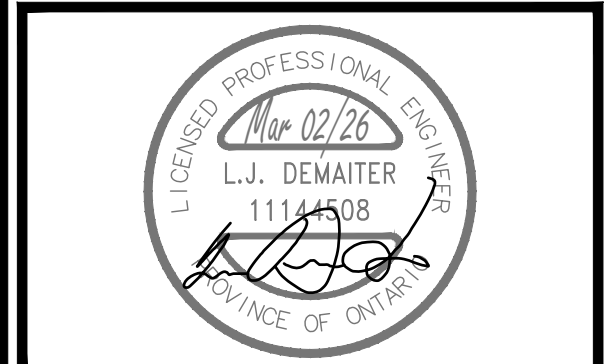
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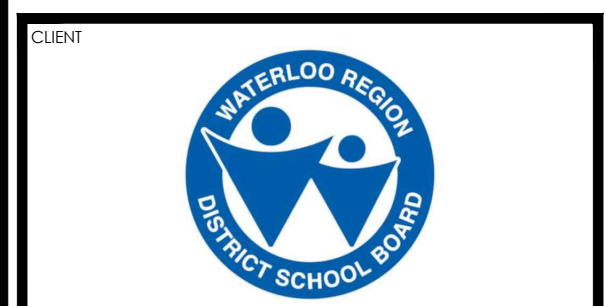
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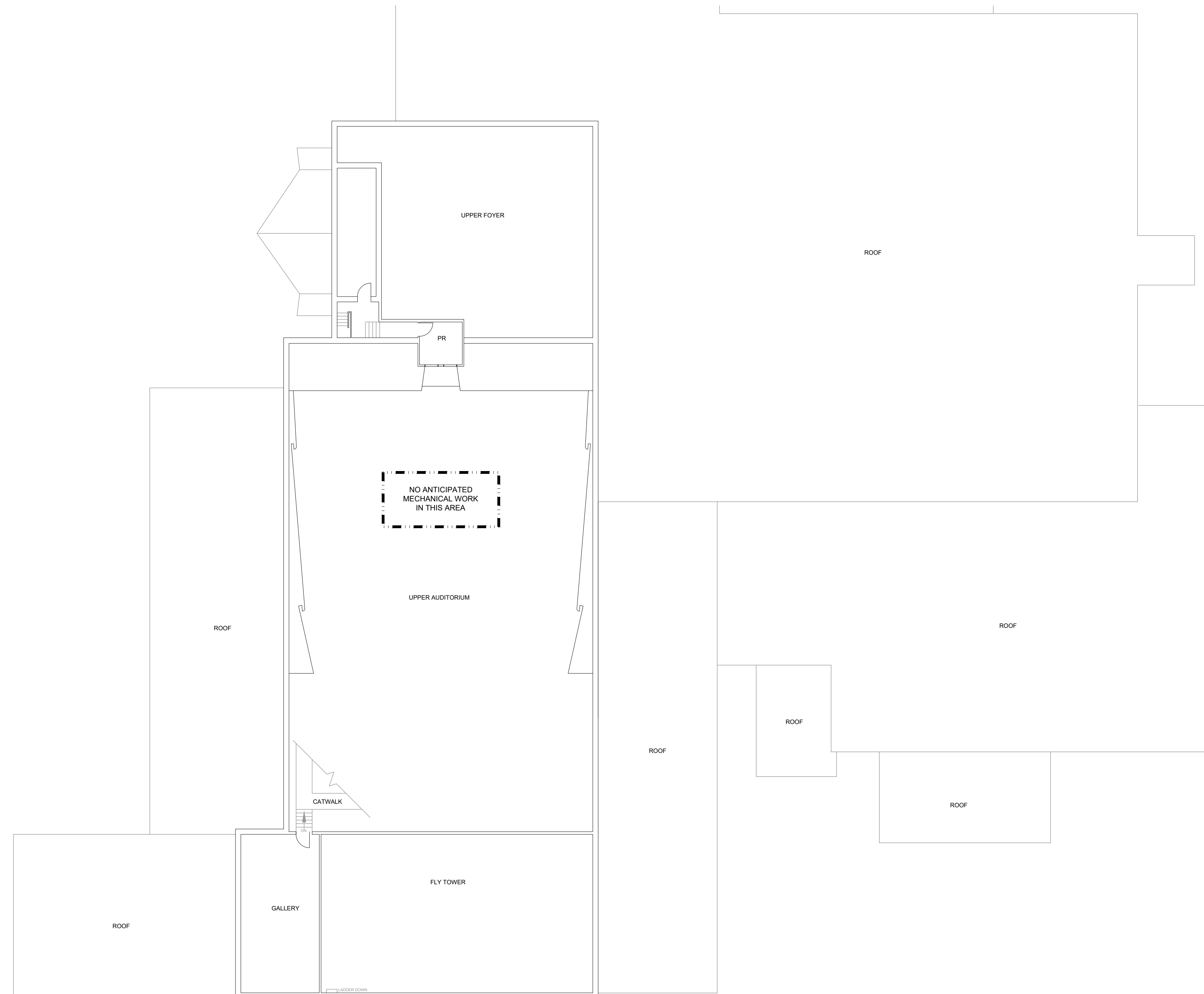
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CHRONOLOGY	DATE



**PROJECT NAME**  
WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2  
300 HAZEL ST., WATERLOO, ON, N2L 3P2

**DRAWING TITLE**  
SECOND FLOOR PLAN WING C DDC RENOVATION

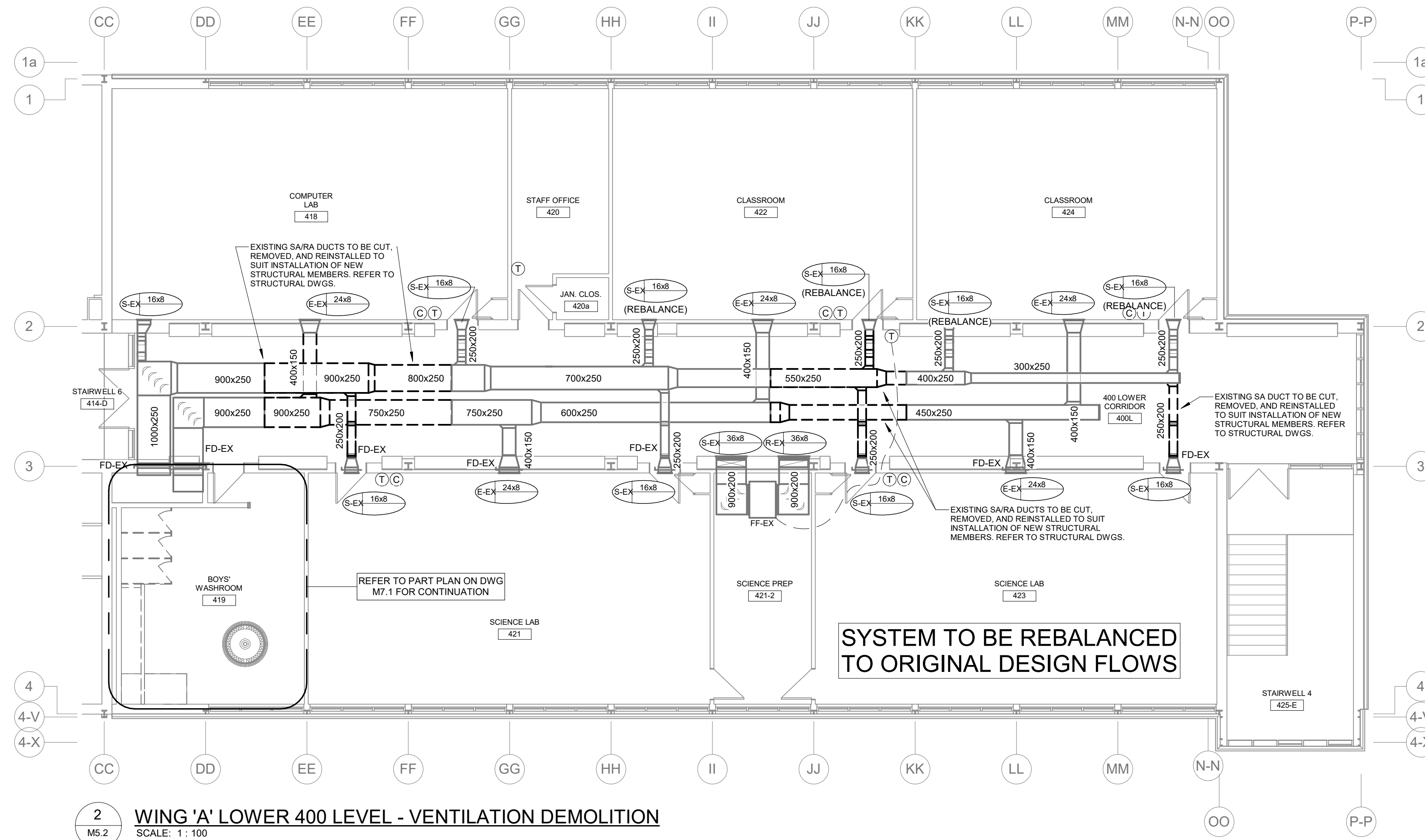
<b>SCALE</b> AS NOTED	<b>DRAWING NUMBER</b> M3.6
<b>SHEET SIZE</b> 24x36	<b>PROJECT NUMBER</b> 2025-153



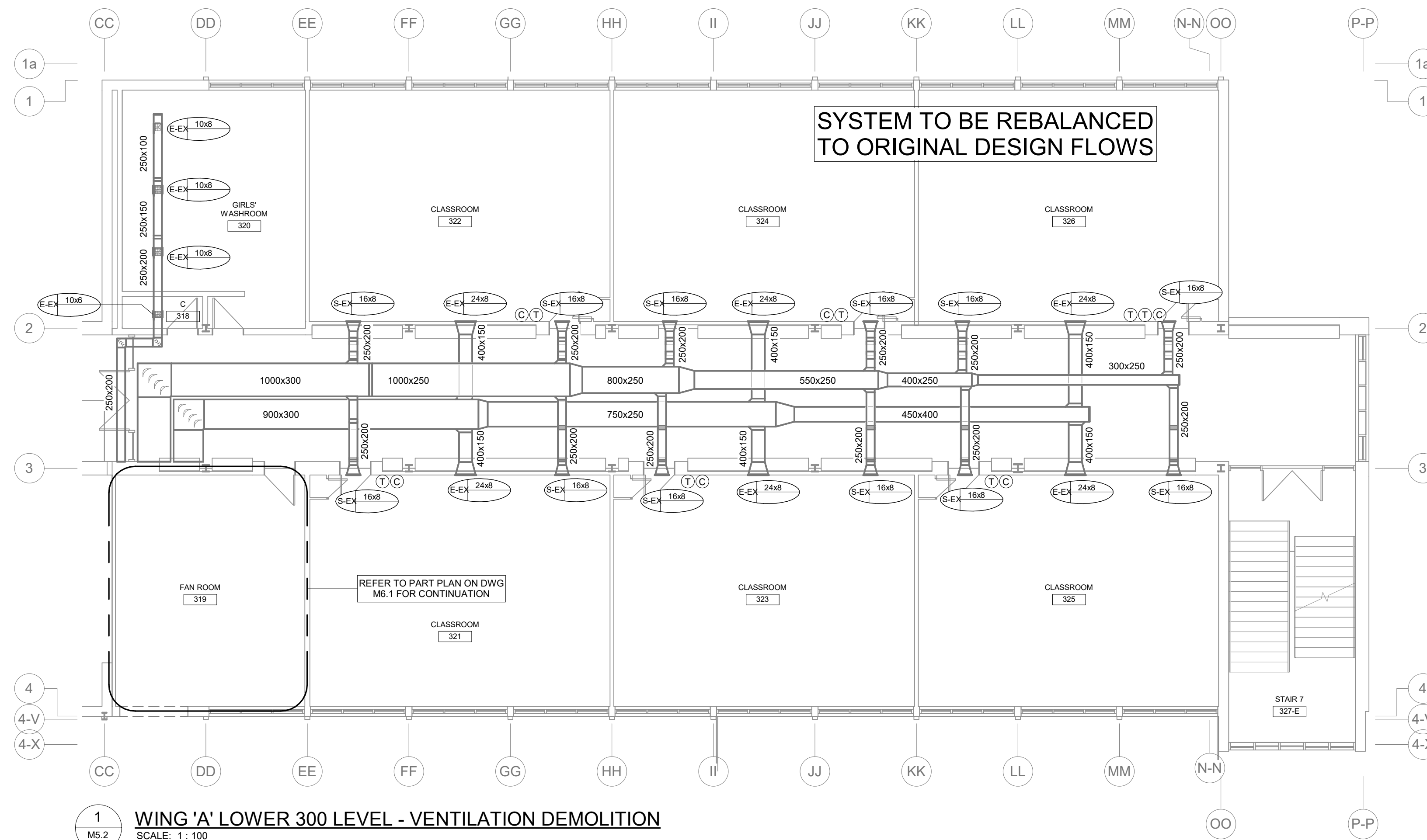
**SECOND FLOOR PLAN - WING C - RENOVATION**  
SCALE: 1/8" = 1'-0"







**2 WING 'A' LOWER 400 LEVEL - VENTILATION DEMOLITION**  
SCALE: 1:100

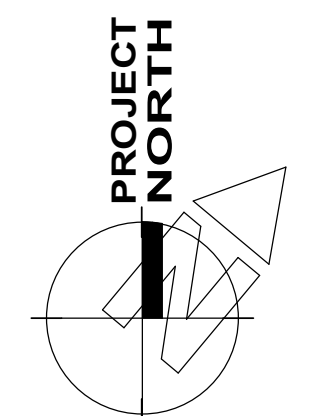


**1 WING 'A' LOWER 300 LEVEL - VENTILATION DEMOLITION**  
SCALE: 1:100

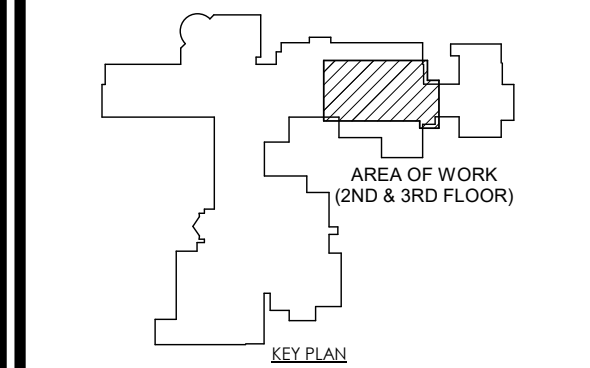
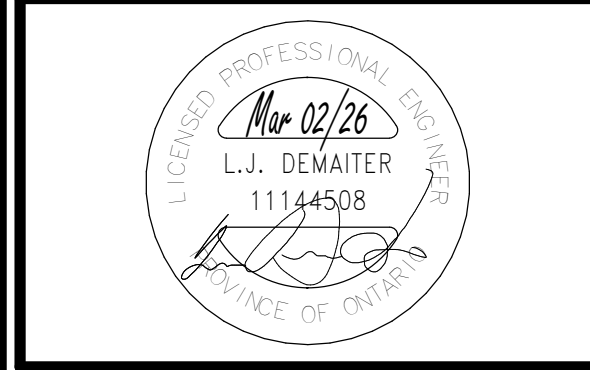
**GENERAL DEMOLITION NOTES**

- 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. Do not scale this drawing.
- 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. PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL 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.

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.	REVISIONS	DATE



ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE

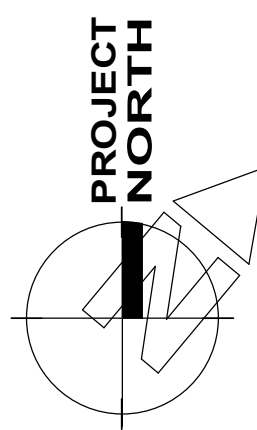


PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
300 Hazel St. Waterloo, ON N2L 3P2

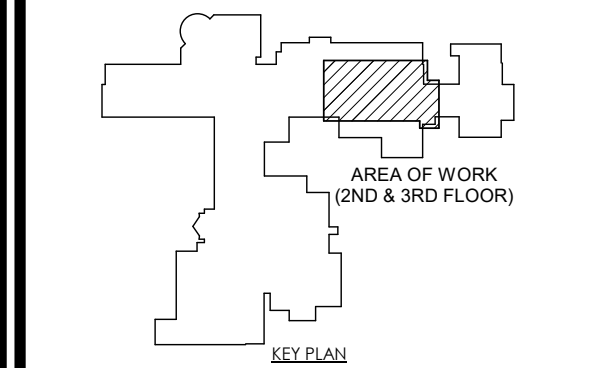
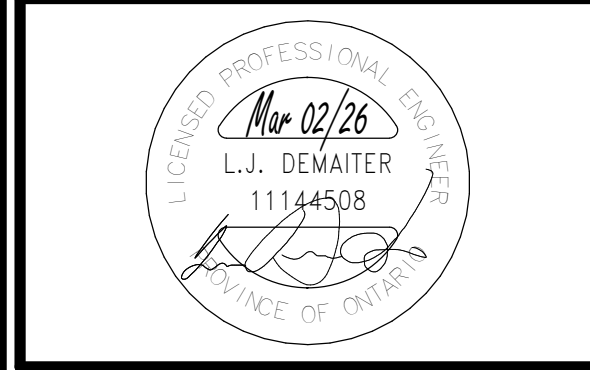
DRAWING TITLE  
**300 & 400 LEVEL PLANS WING A - HVAC DEMOLITION**

SCALE AS NOTED	DRAWING NUMBER <b>M5.2</b>
SHEET SIZE 24X36	PROJECT NUMBER 2025-153

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No.	REVISIONS	DATE



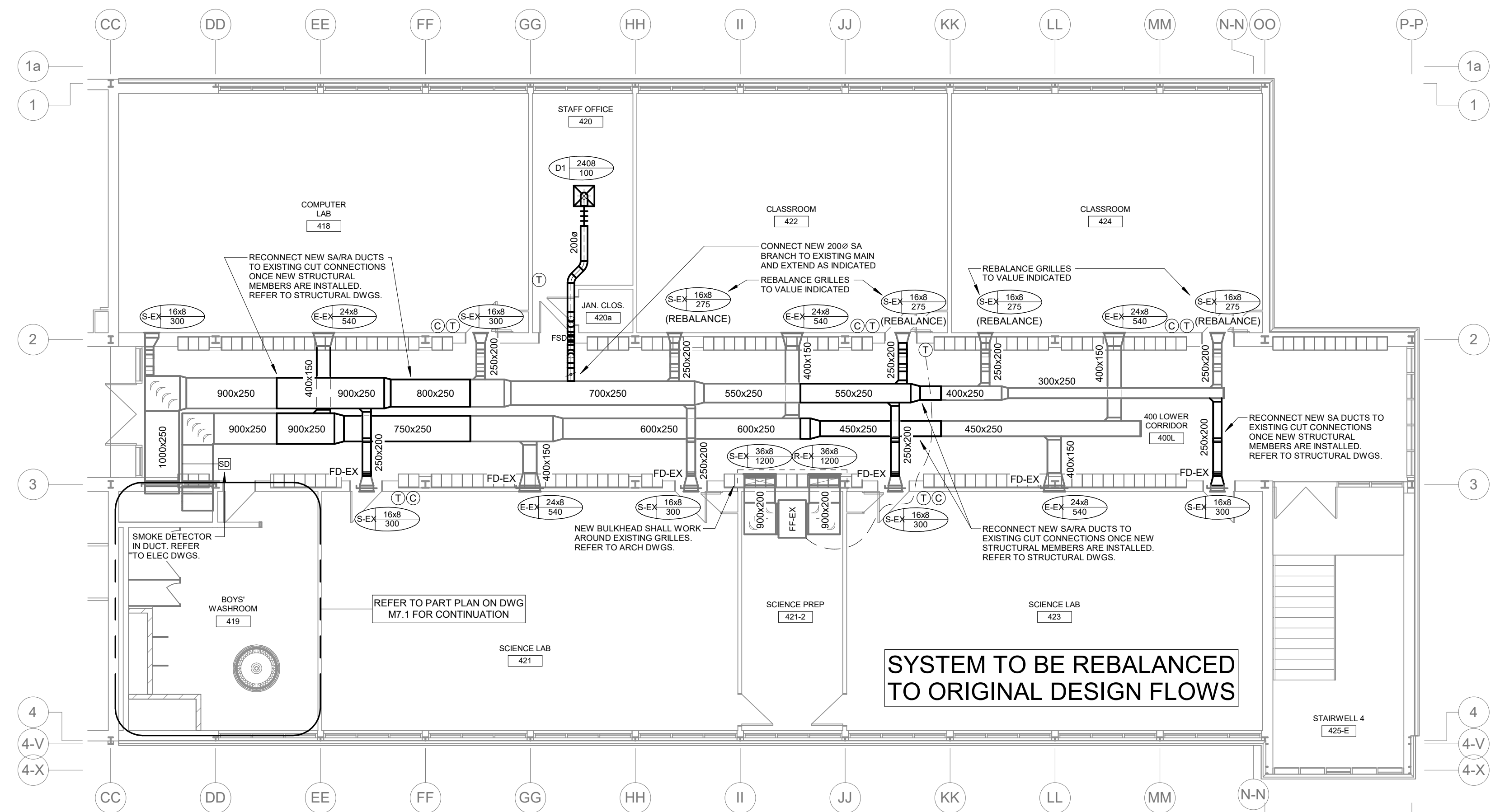
ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



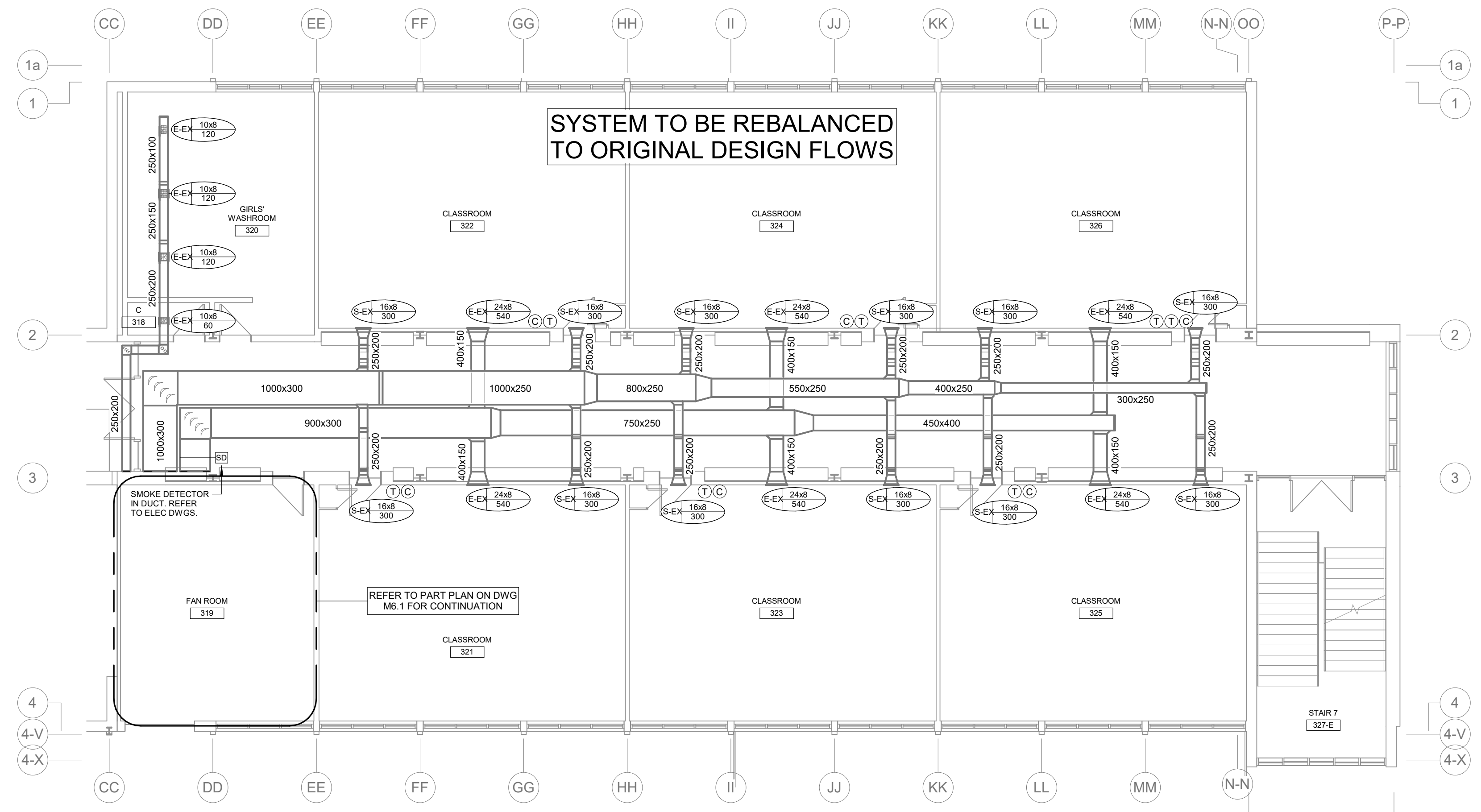
PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE  
 HVAC AND EXTERIOR UPGRADES PHASE 2**  
 300 Hazel St. Waterloo, ON N2L 3P2

DRAWING TITLE  
**300 & 400 LEVEL PLANS  
 WING A - HVAC  
 RENOVATION**

SCALE	AS NOTED	DRAWING NUMBER	<b>M5.3</b>
SHEET SIZE	24X36	PROJECT NUMBER	
PROJECT NUMBER	2025-153		



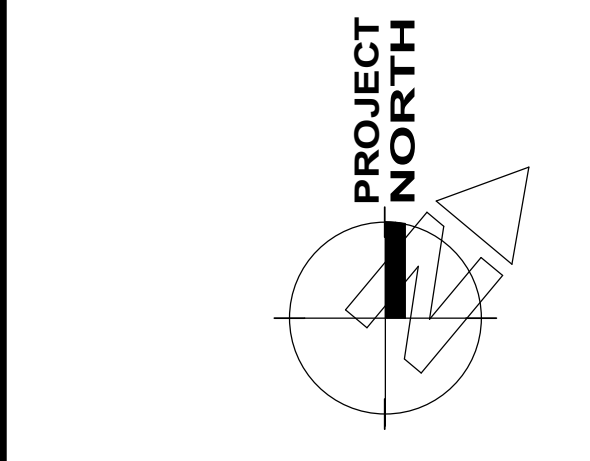
**2 WING 'A' LOWER 400 LEVEL - VENTILATION RENOVATION**  
 SCALE: 1 : 100



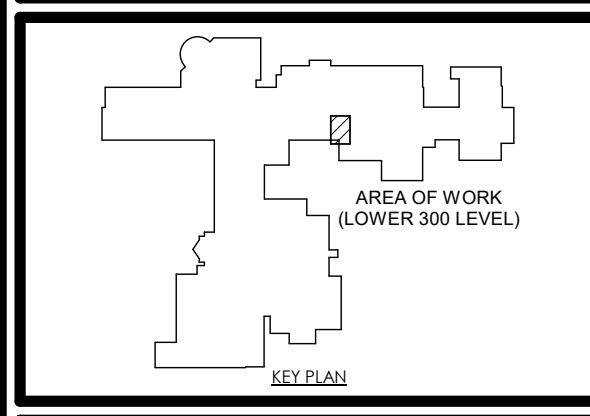
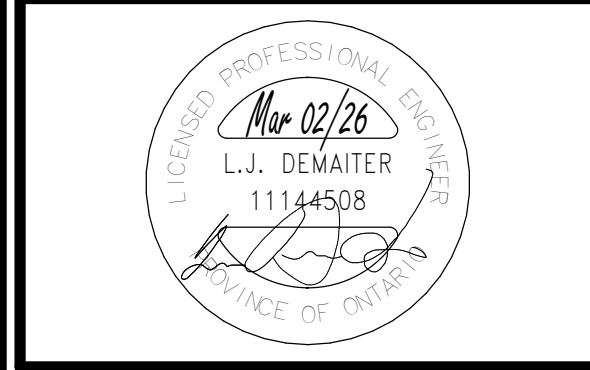
**1 WING 'A' LOWER 300 LEVEL - VENTILATION RENOVATION**  
 SCALE: 1 : 100

**NOTE**  
 THIS AREA WAS CONVERTED TO DDC IN PREVIOUS RENOVATION. REFER TO DDC DRAWINGS FOR EXISTING CONTROLS.

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No.	REVISIONS	DATE



ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
 300 Hazel St. Waterloo, ON N2L 3P2

DRAWING TITLE  
**FAN RM 319 (WING A) - DEMO/RENO**

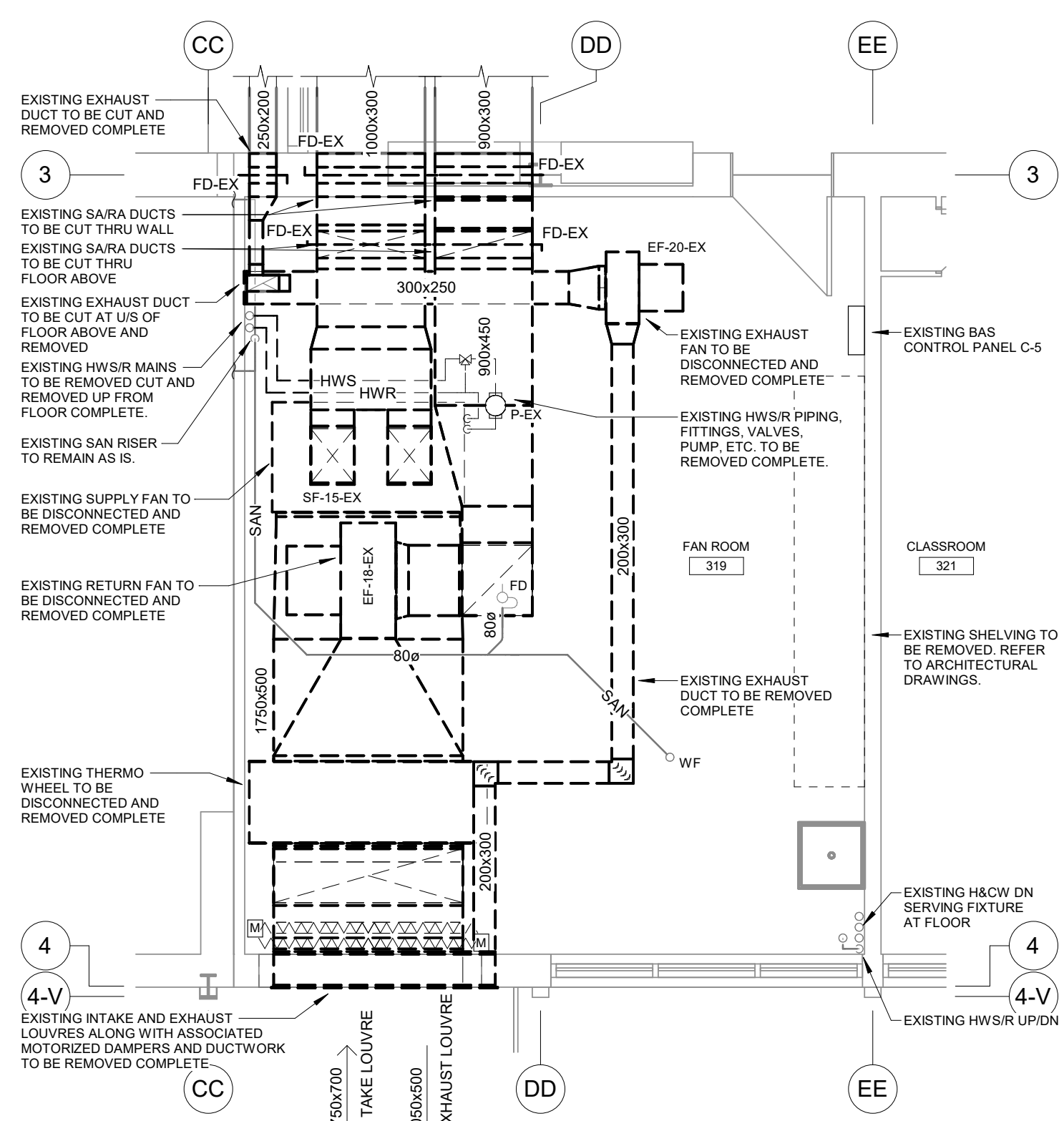
SCALE	AS NOTED	DRAWING NUMBER	<b>M6.1</b>
SHEET SIZE	24X36	PROJECT NUMBER	
PROJECT NUMBER	2025-153		

**GENERAL DEMOLITION NOTES**

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- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILING AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

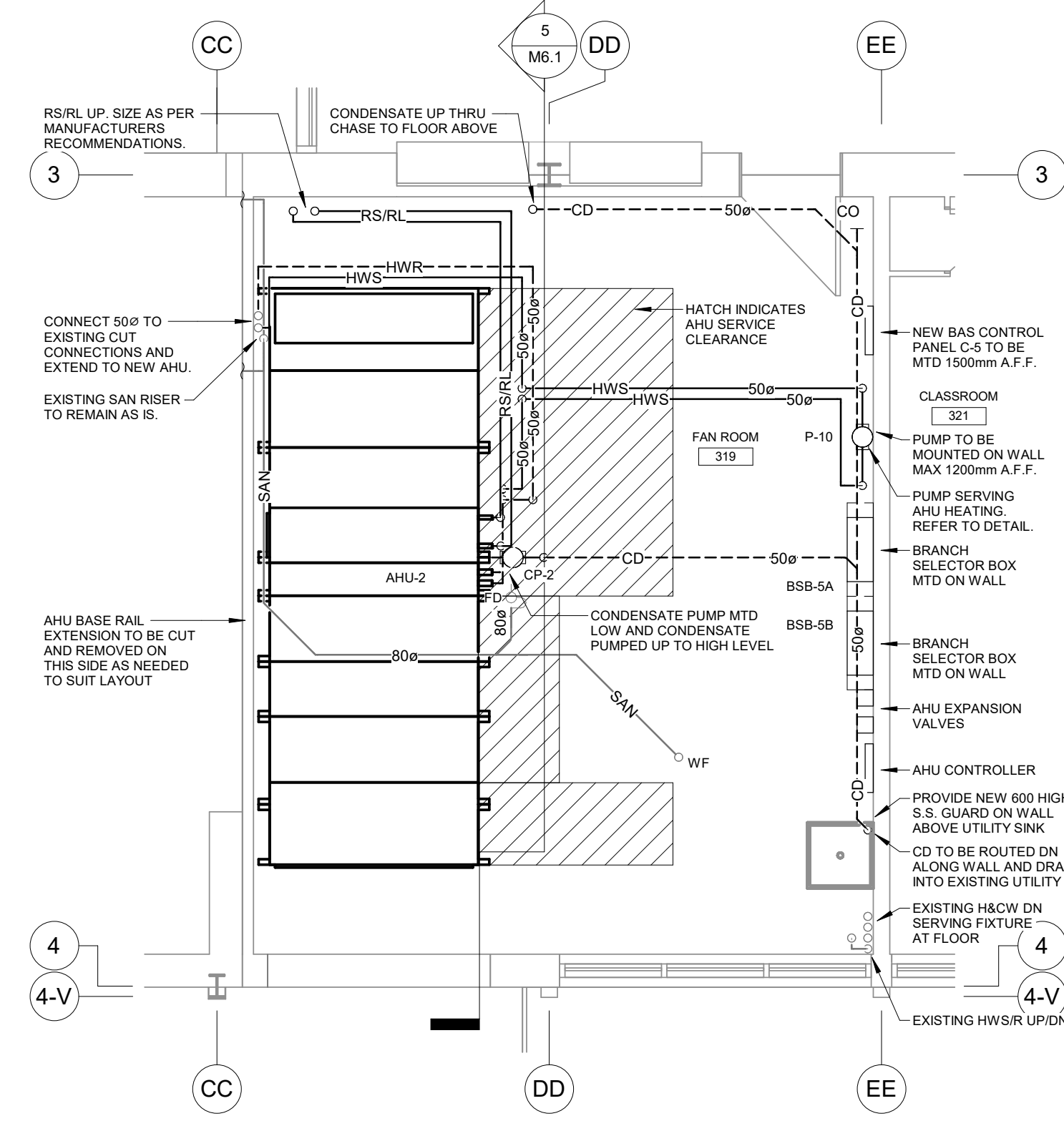
**GENERAL RENOVATION NOTES**

- CONTRACTOR TO LOCATE ISOLATION VALVES AND DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED. FLUSHING, CLEANING, & REFILLING WITH CLEAN WATER & CHEMICAL TO WATER TREATMENT CONTRACTOR REQUIREMENTS.
- FREEZE OR DRAIN EXISTING PIPING AS REQUIRED TO FACILITATE CUT IN.



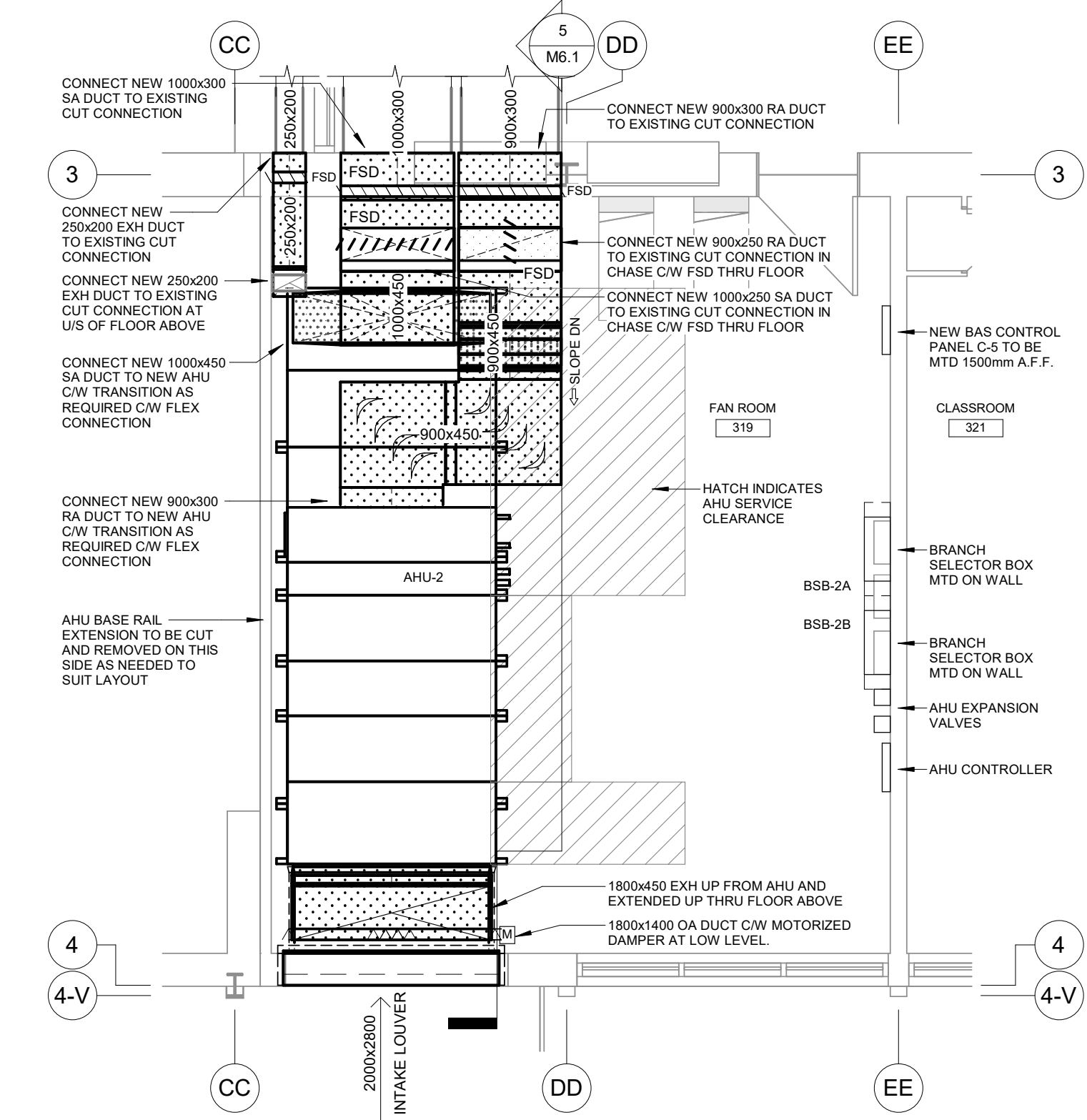
**1 FAN ROOM 319 - DEMOLITION**  
 SCALE: 1 : 50

EXISTING AHU TO REMAIN OPERATIONAL UNTIL NEW UNIT IS ON SITE AND READY TO BE INSTALLED



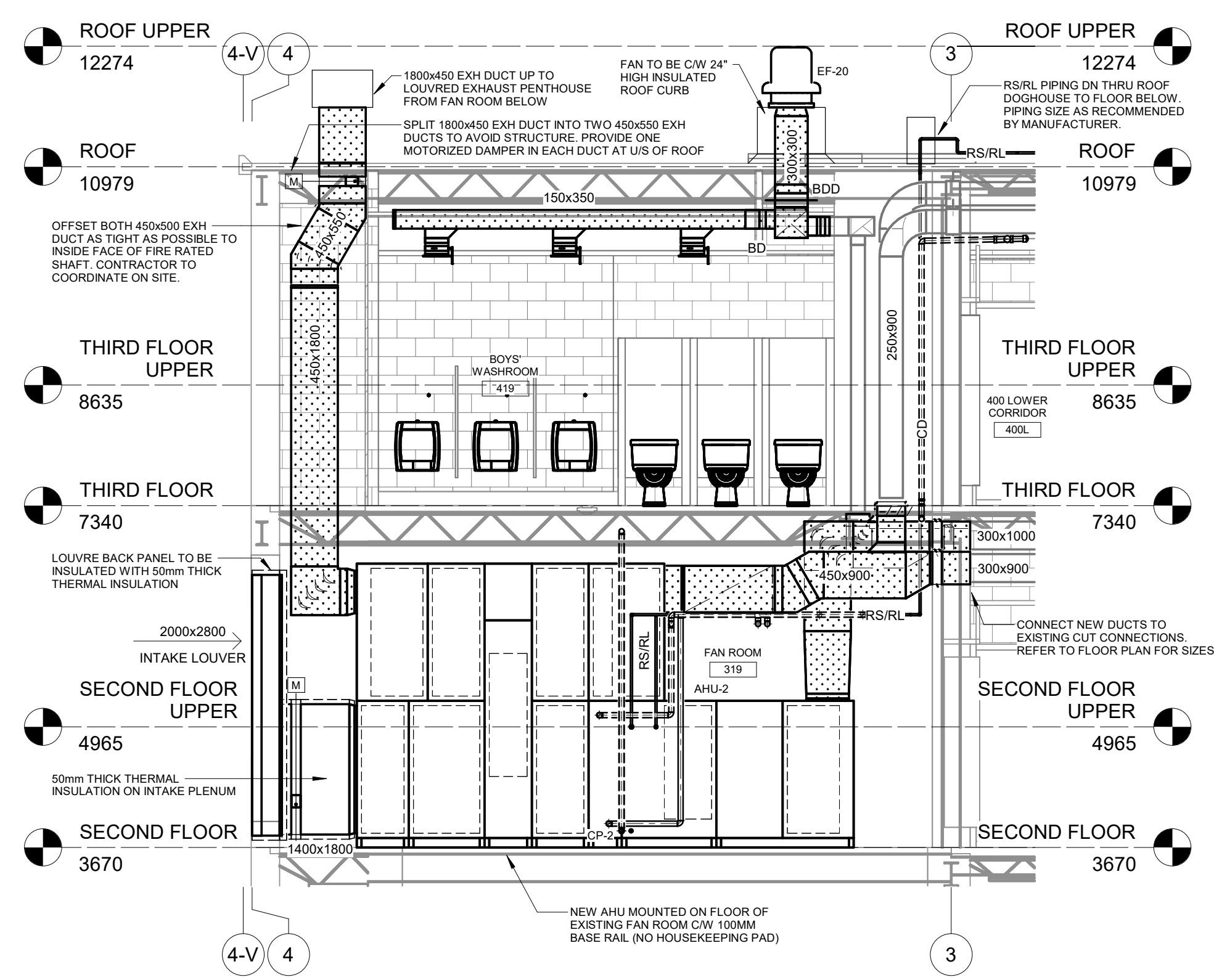
**6 FAN ROOM 319 - RENOVATION - PIPING**  
 SCALE: 1 : 50

- THIS CONTRACTOR SHALL CAREFULLY COORDINATE WITH ELECTRICIAN TO MAINTAIN ALL EQUIPMENT SERVICE CLEARANCES. SUBMIT DIMENSIONED ROOM LAYOUT SHOWING ALL EXISTING AND NEW EQUIPMENT TO CONSULTANT FOR REVIEW. LAY OUT EQUIPMENT ON ROOM FLOOR PRIOR TO STARTING INSTALLATION.
- CONTRACTOR TO FIELD MEASURE ALL EXISTING DUCTWORK ON SITE PRIOR TO WORK AND INFORM ENGINEER OF ANY DISCREPANCIES.

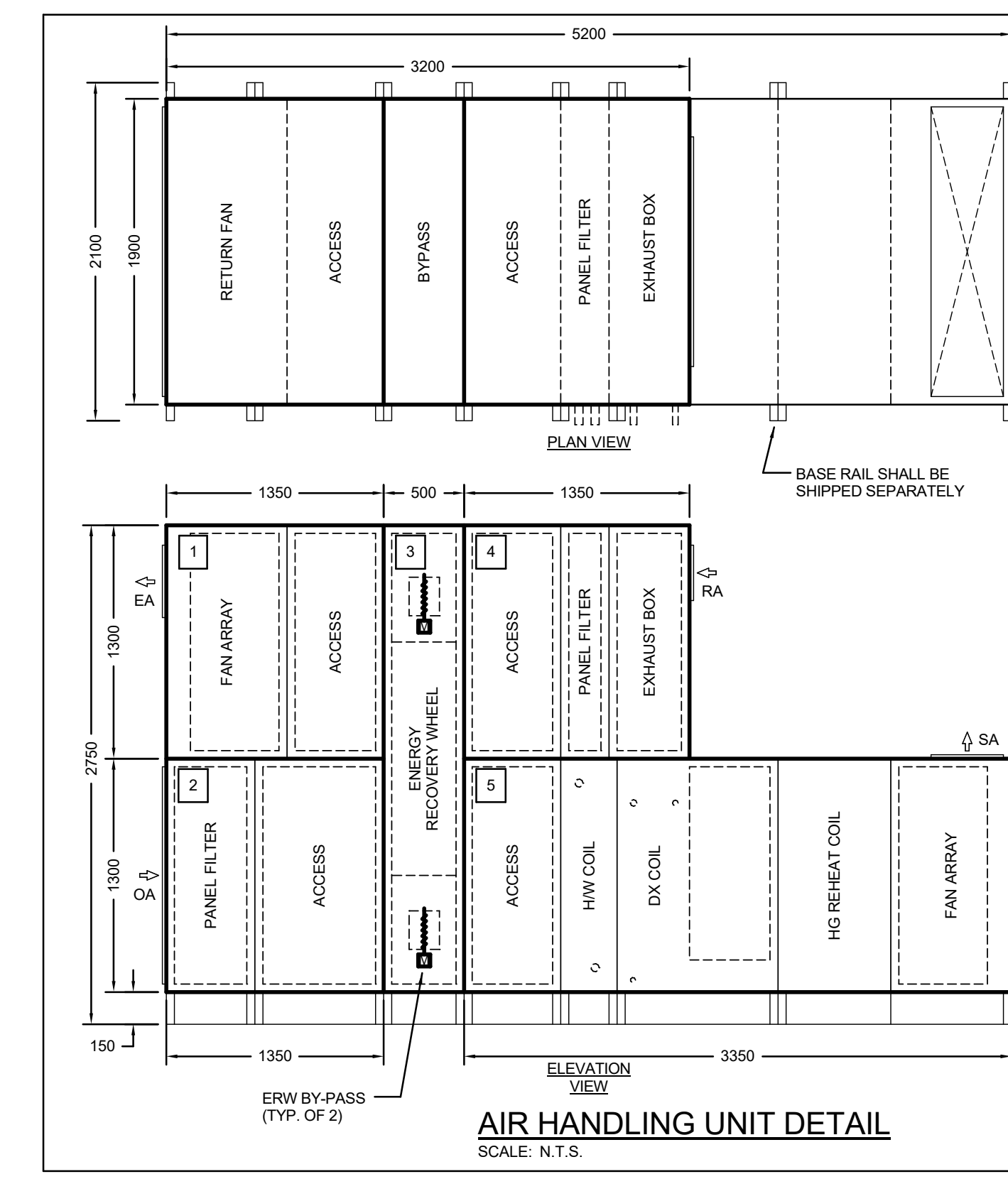


**2 FAN ROOM 319 - RENOVATION - HVAC**  
 SCALE: 1 : 50

- THIS CONTRACTOR SHALL CAREFULLY COORDINATE WITH ELECTRICIAN TO MAINTAIN ALL EQUIPMENT SERVICE CLEARANCES. SUBMIT DIMENSIONED ROOM LAYOUT SHOWING ALL EXISTING AND NEW EQUIPMENT TO CONSULTANT FOR REVIEW. LAY OUT EQUIPMENT ON ROOM FLOOR PRIOR TO STARTING INSTALLATION.
- CONTRACTOR TO FIELD MEASURE ALL EXISTING DUCTWORK ON SITE PRIOR TO WORK AND INFORM ENGINEER OF ANY DISCREPANCIES.



**5 FAN ROOM - EAST ELEVATION**  
 SCALE: 1 : 50

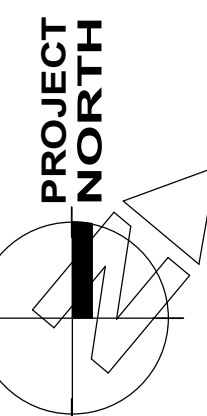


**UNIT SECTIONS**

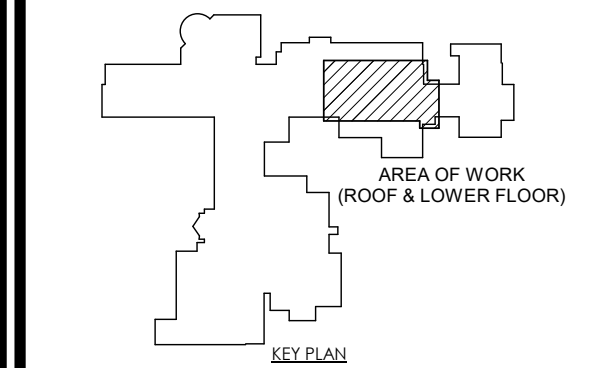
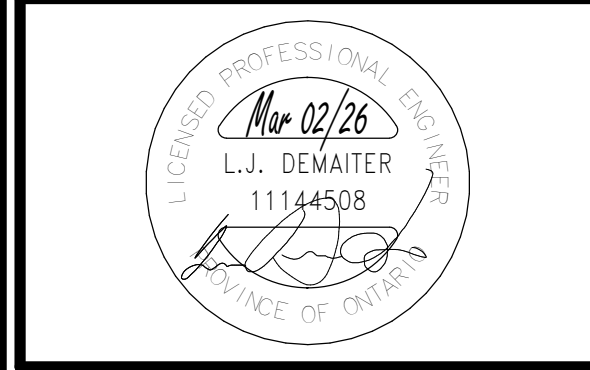
Item	Weight (lb)
1	764
2	711
3	1007
4	609
5	2163
TOTAL	5254

HVAC UNIT 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 AND TO ENSURE FULL AND EASE OF SERVICE AND REPAIRS

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No.	REVISIONS	DATE



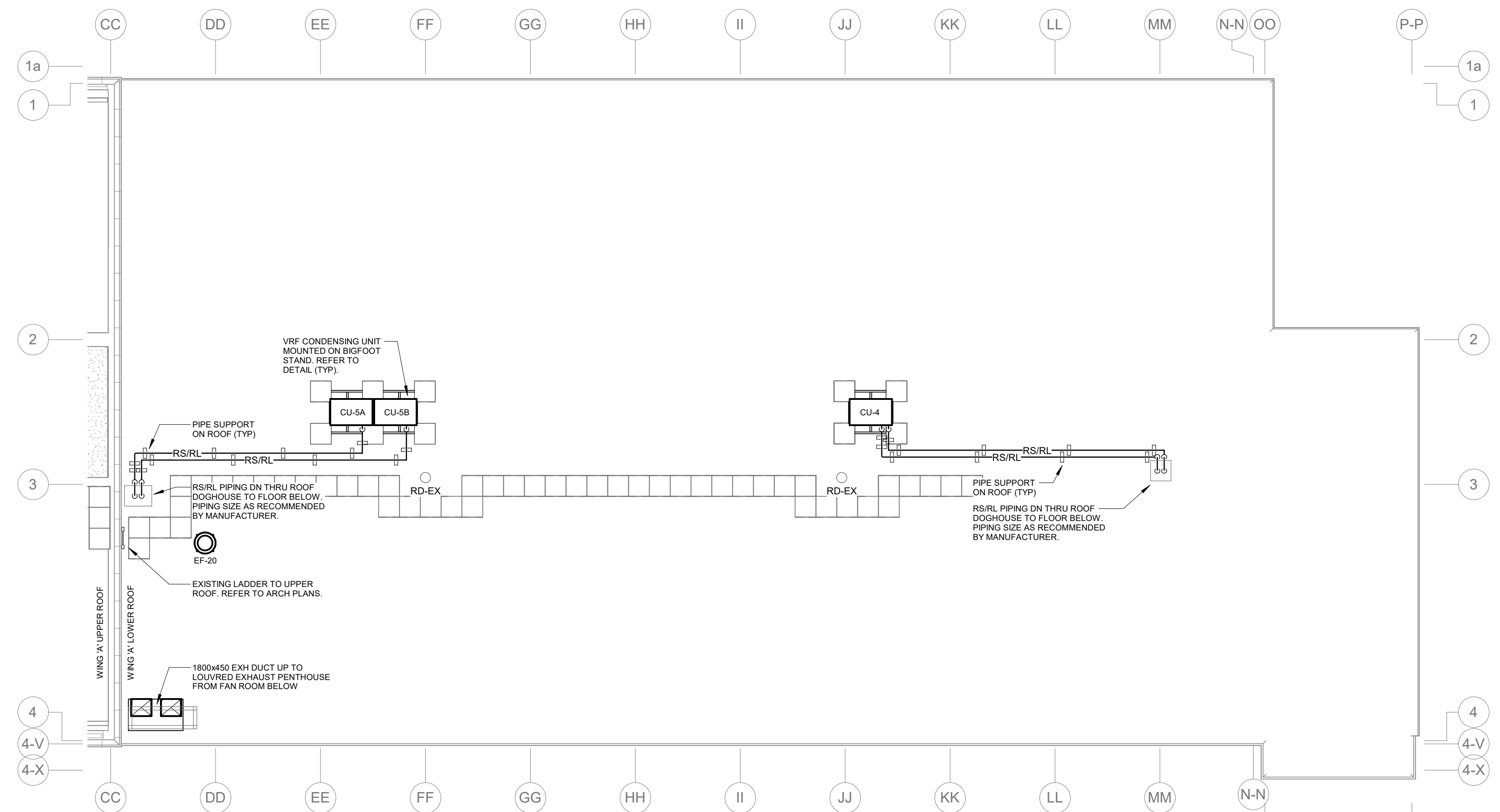
ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



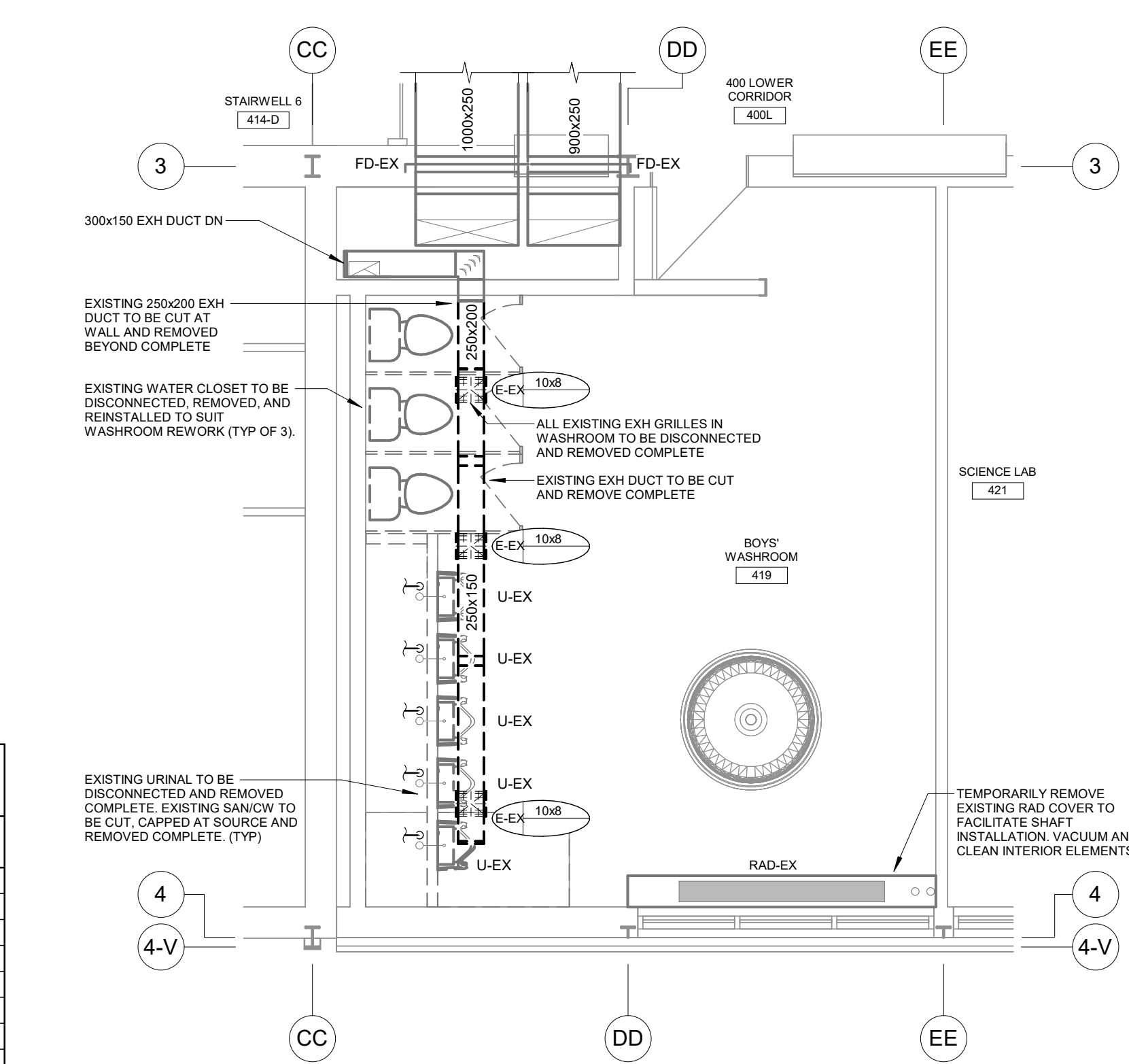
PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
 300 Hazel St, Waterloo, ON N2L 3P2

DRAWING TITLE  
**LOWER ROOF PLAN WING A / LEVEL 400 BOYS W/R**

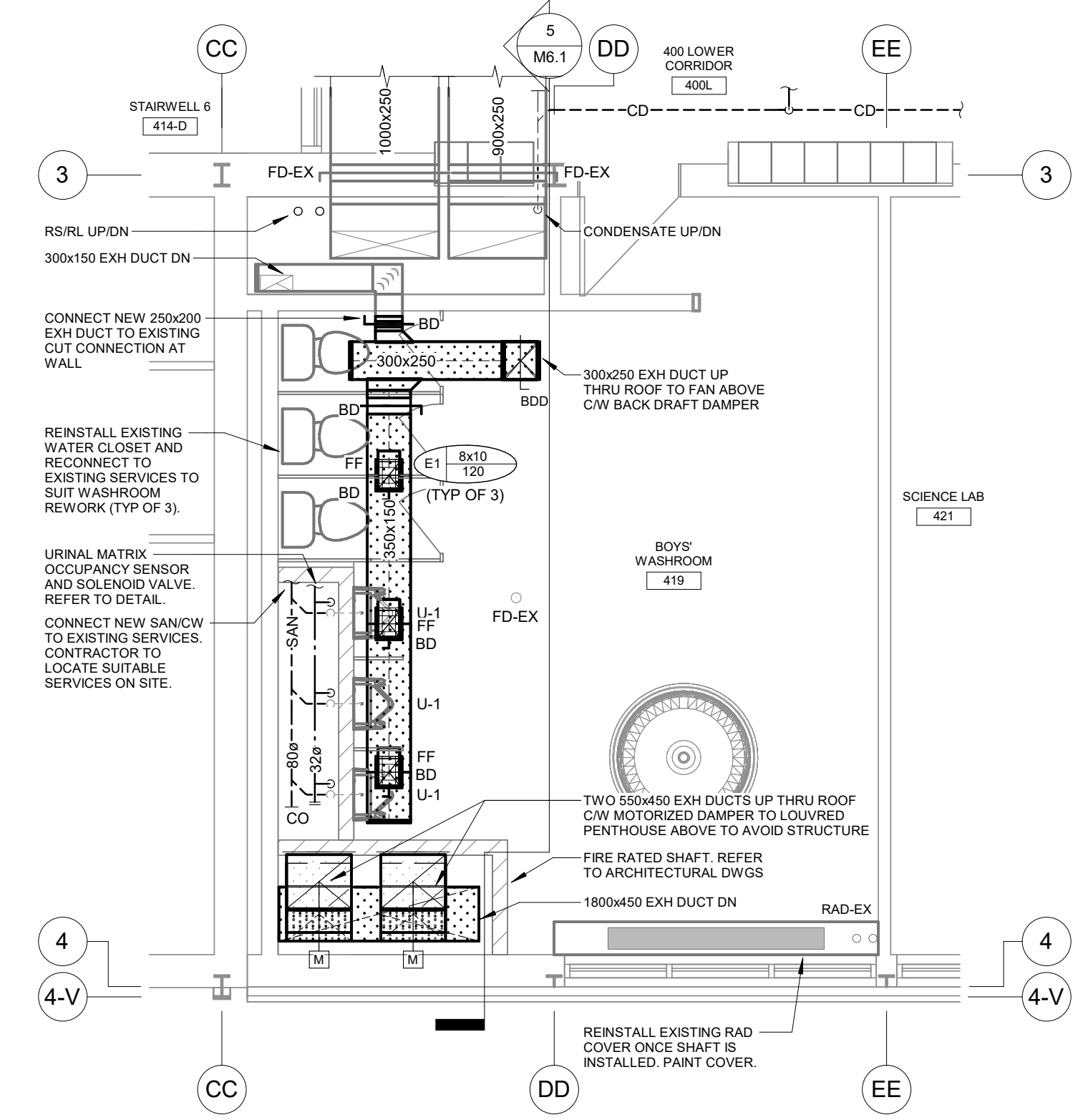
SCALE	AS NOTED	DRAWING NUMBER	<b>M7.1</b>
SHEET SIZE	24X36	PROJECT NUMBER	
PROJECT NUMBER	2025-153		



**1 WING A LOWER - ROOF PLAN RENOVATION**  
 SCALE: 1 : 100

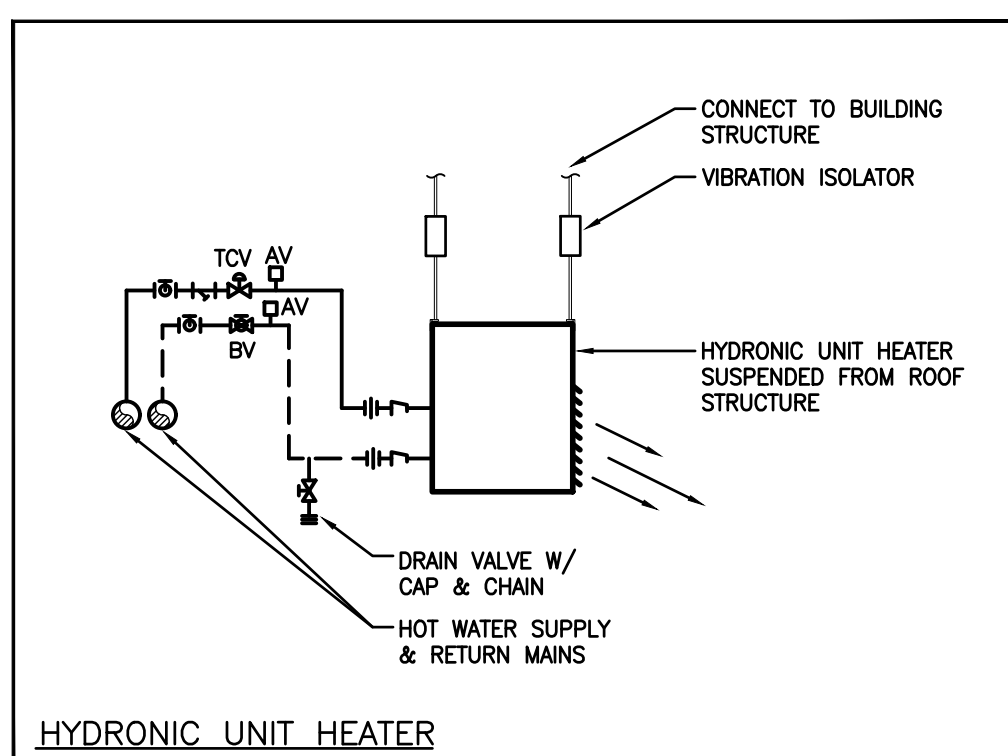
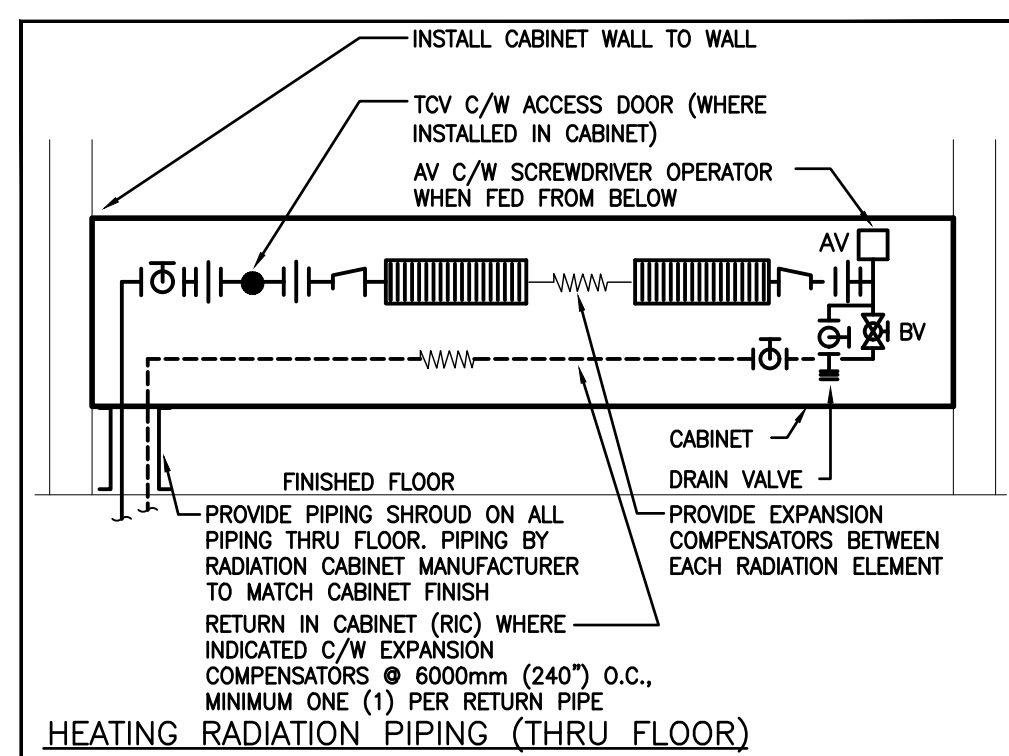
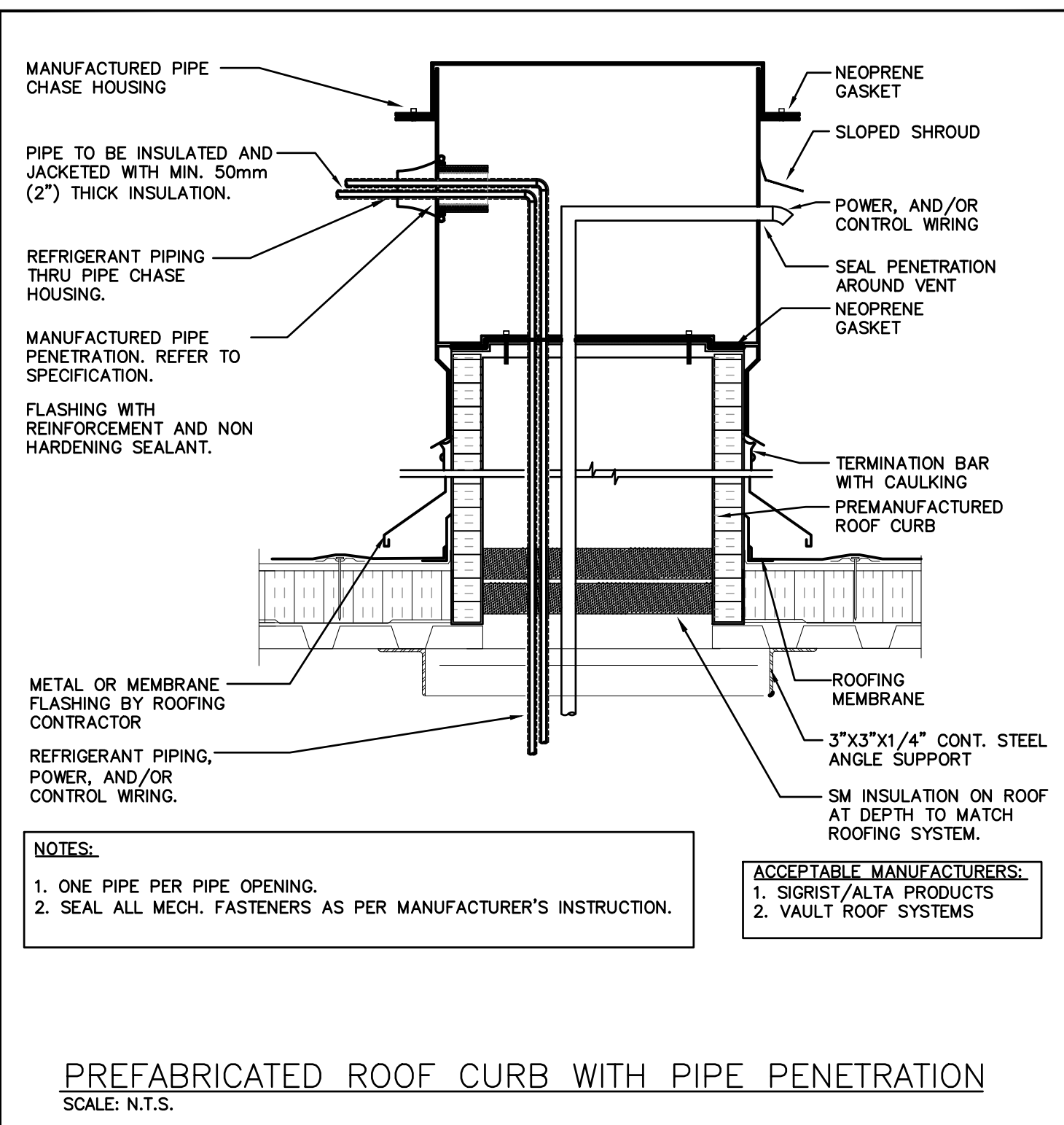
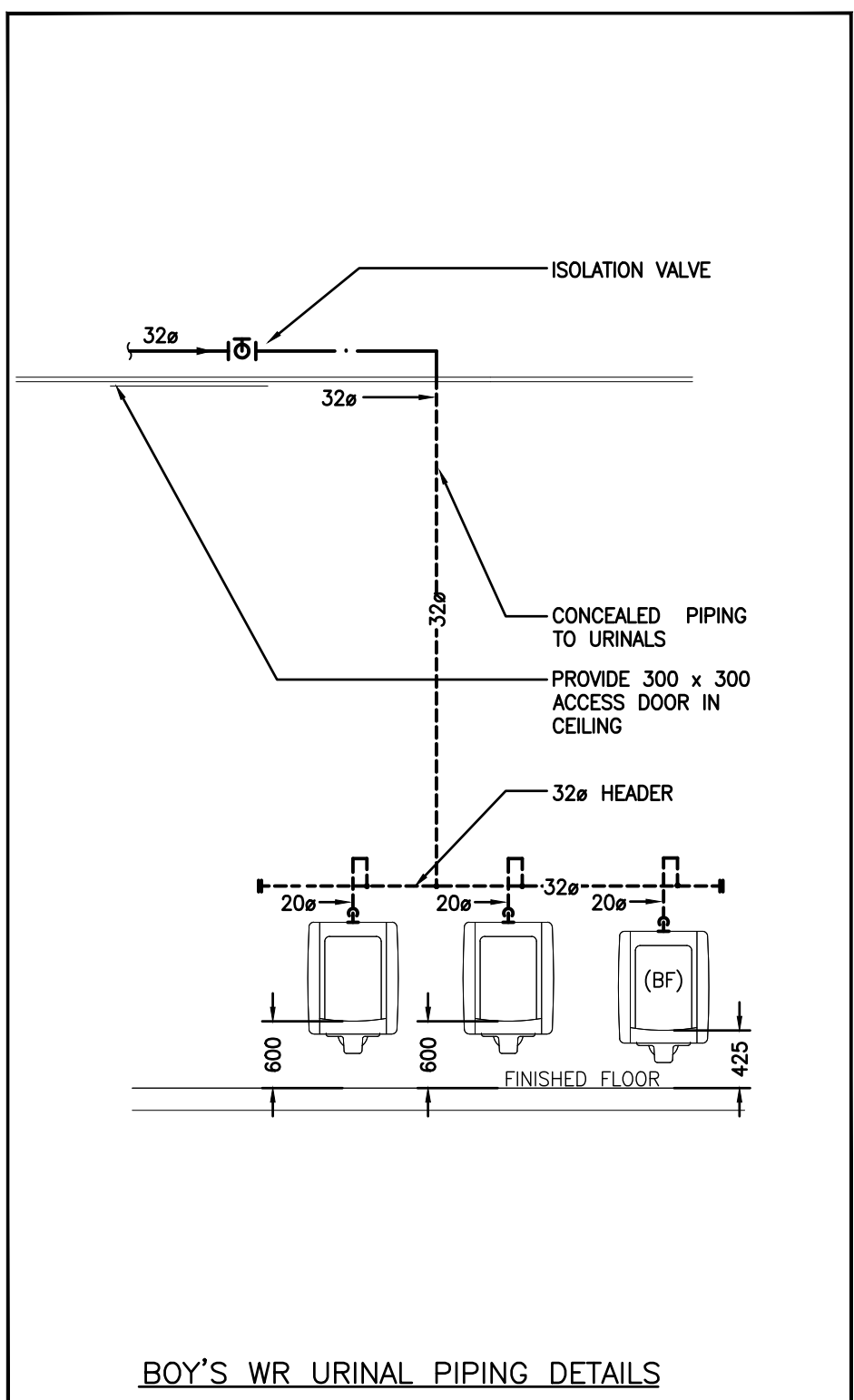
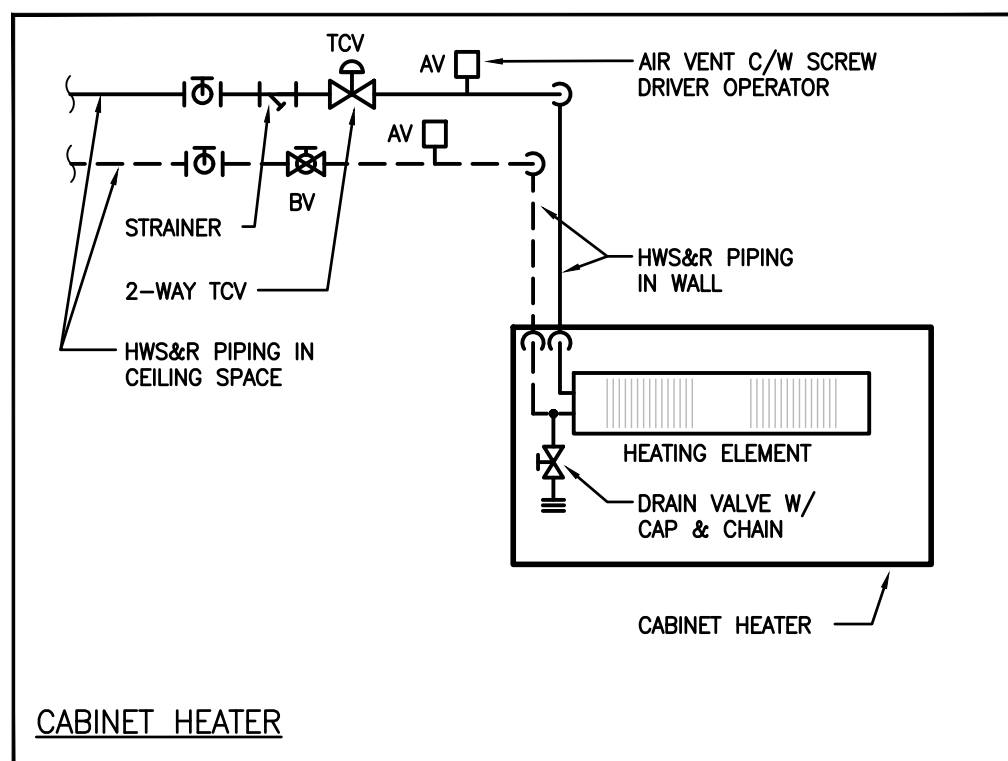
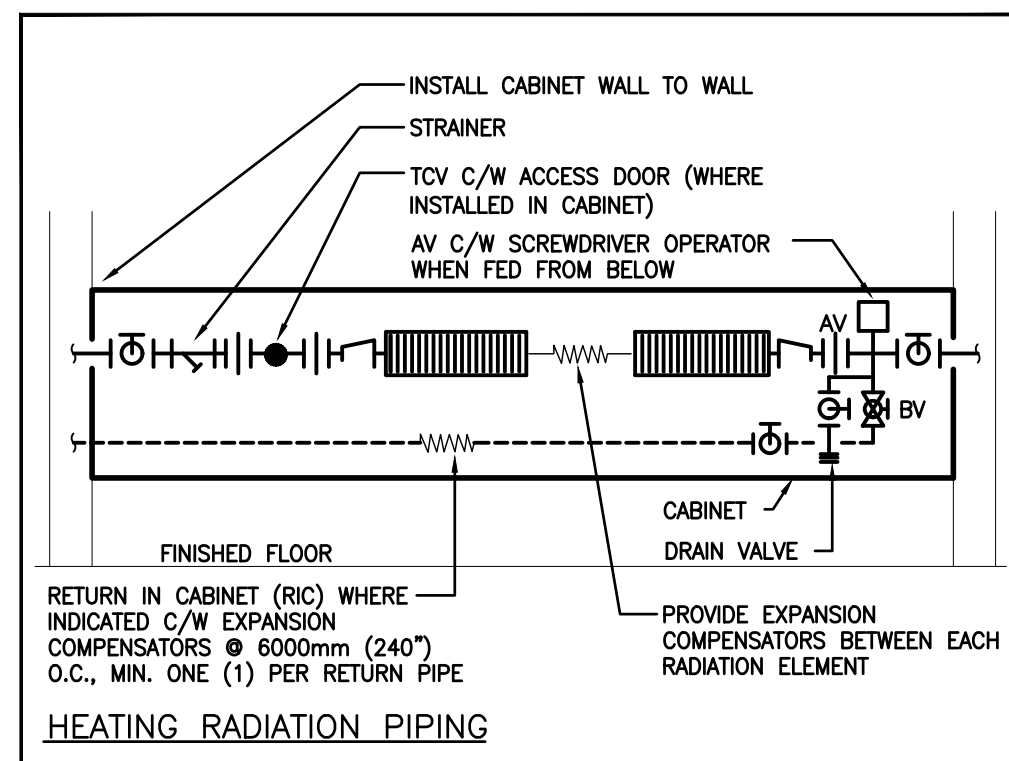
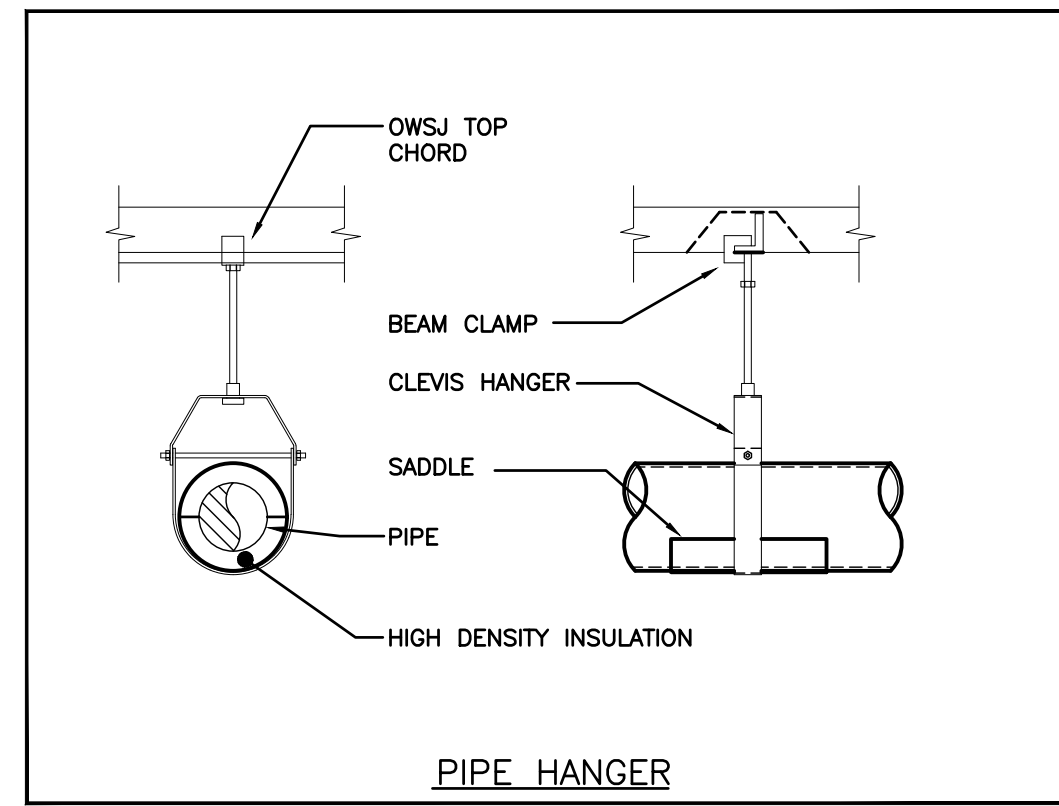
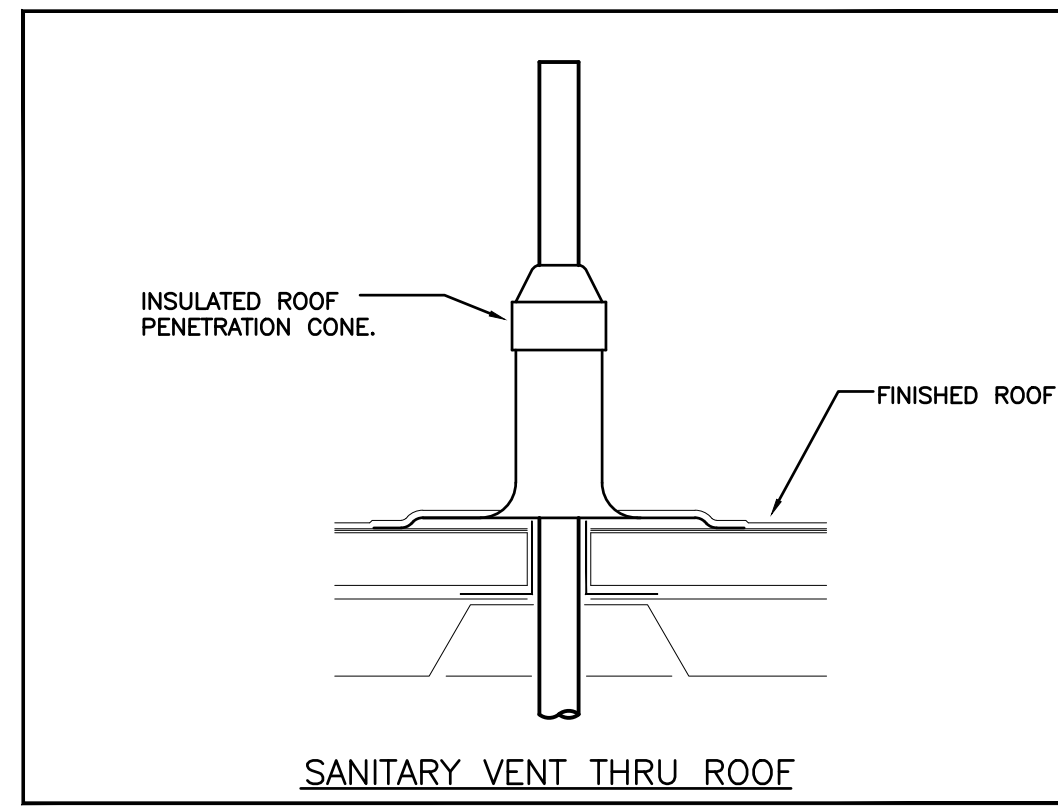
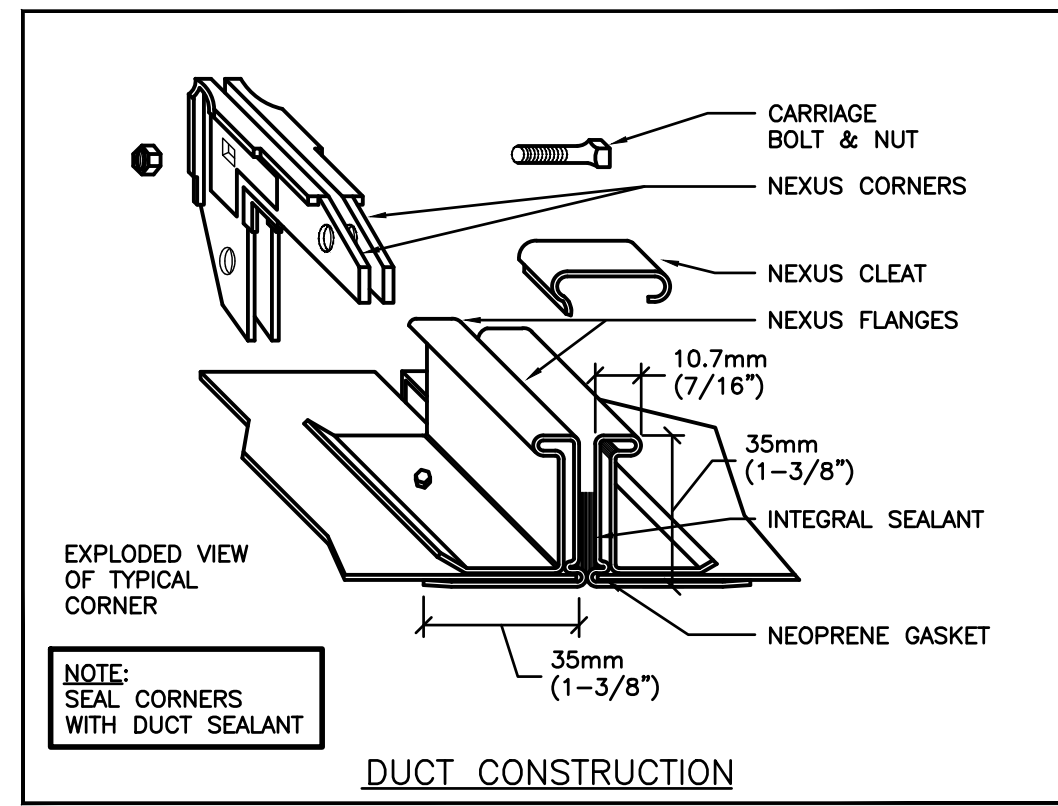
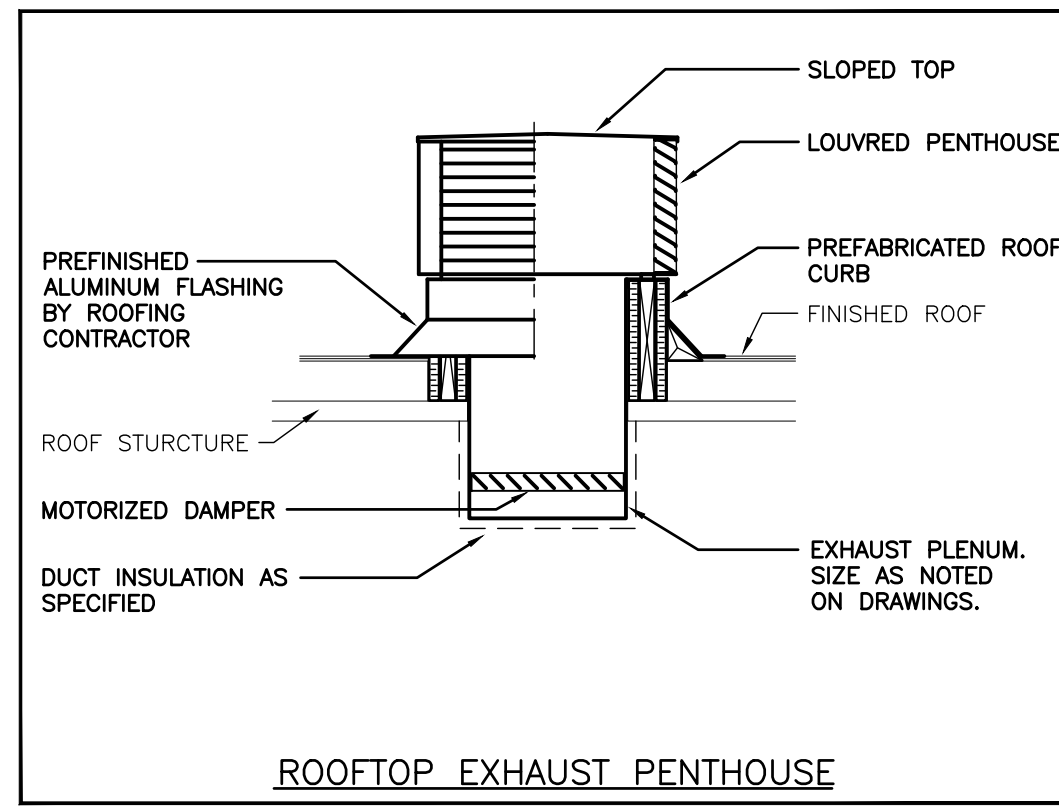
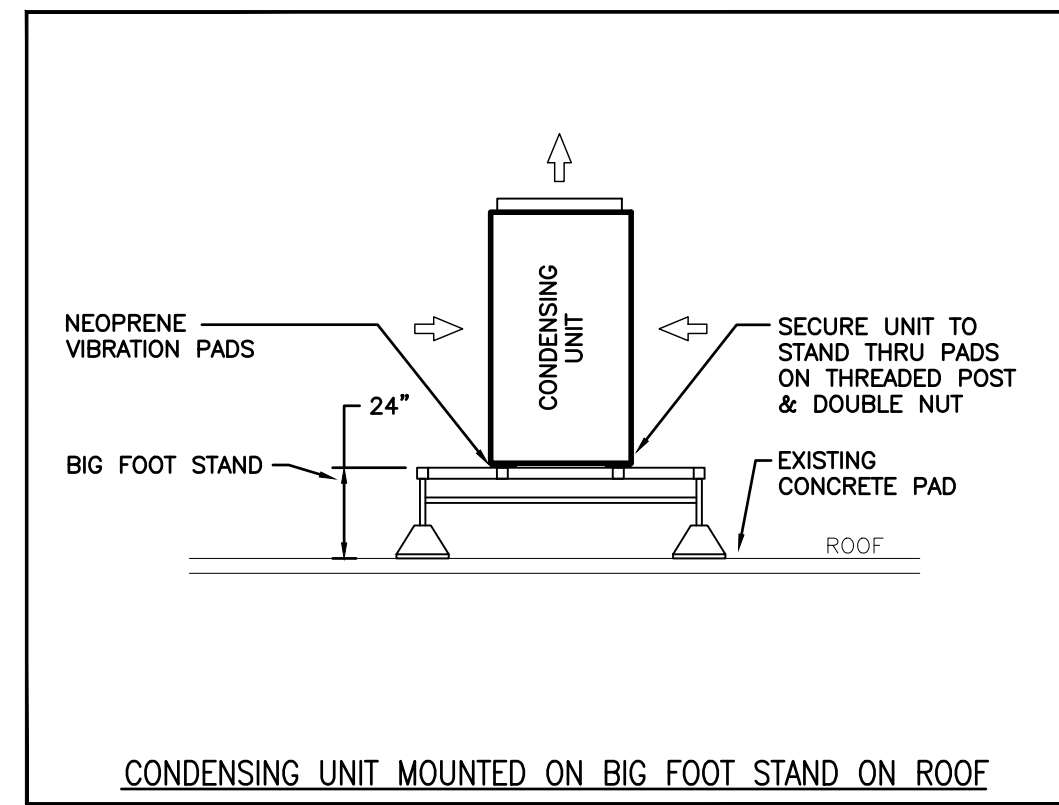
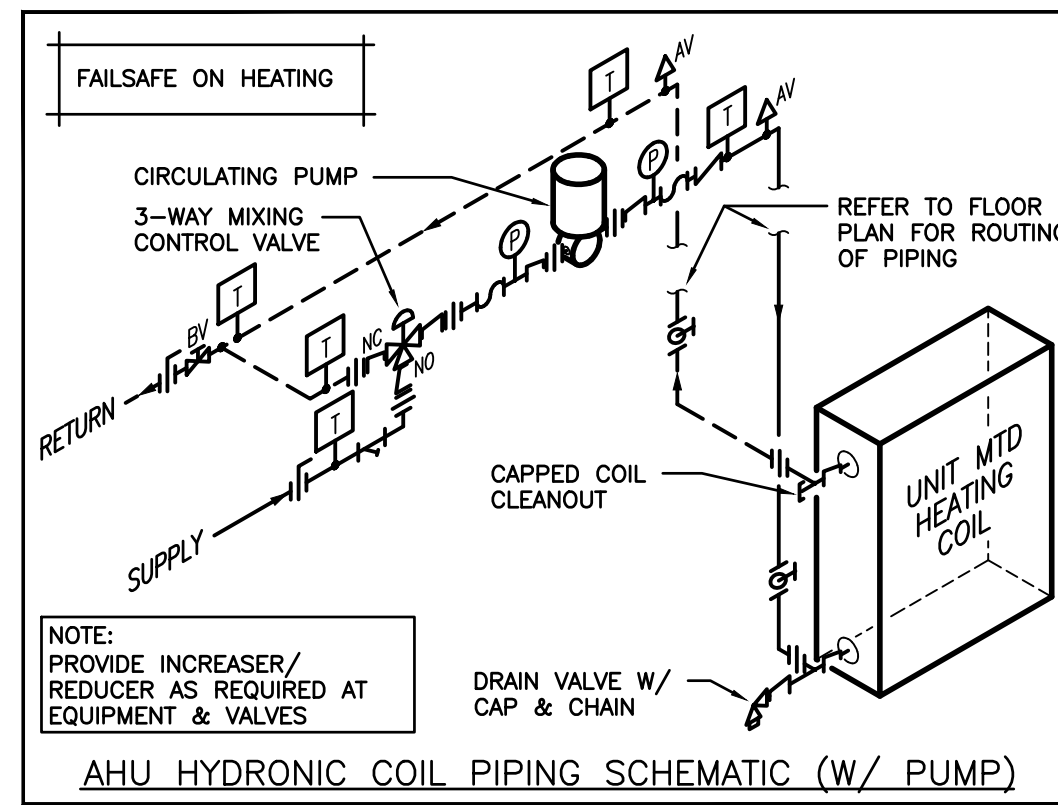
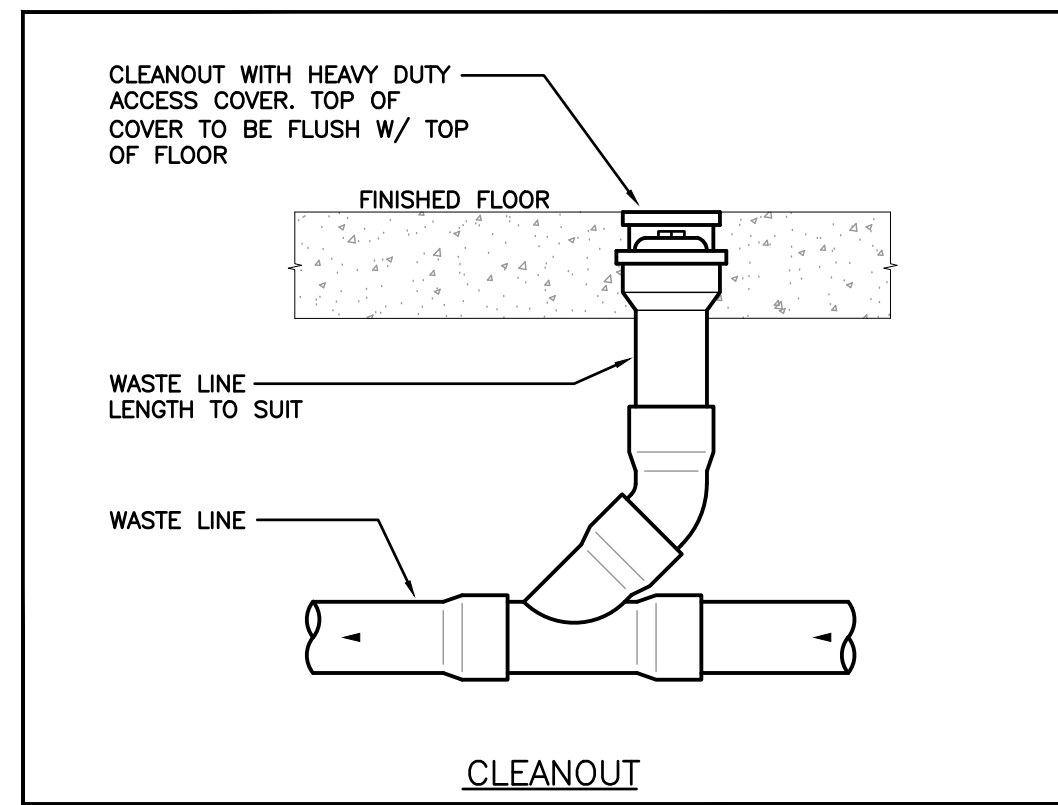
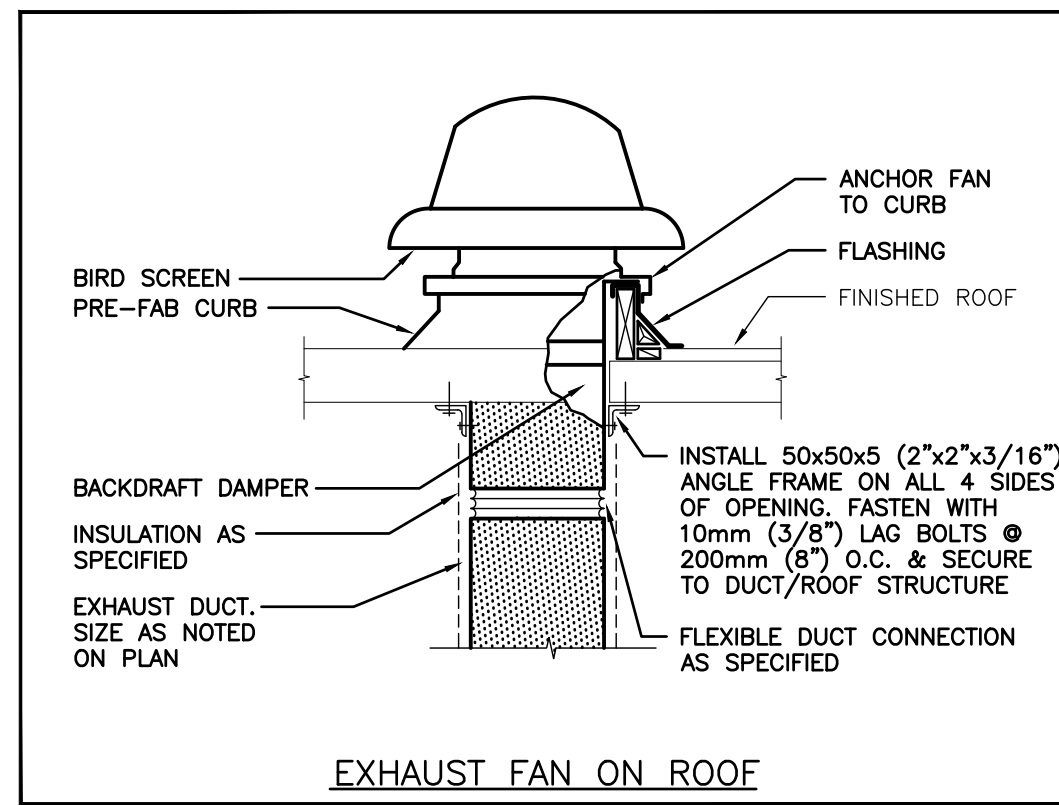
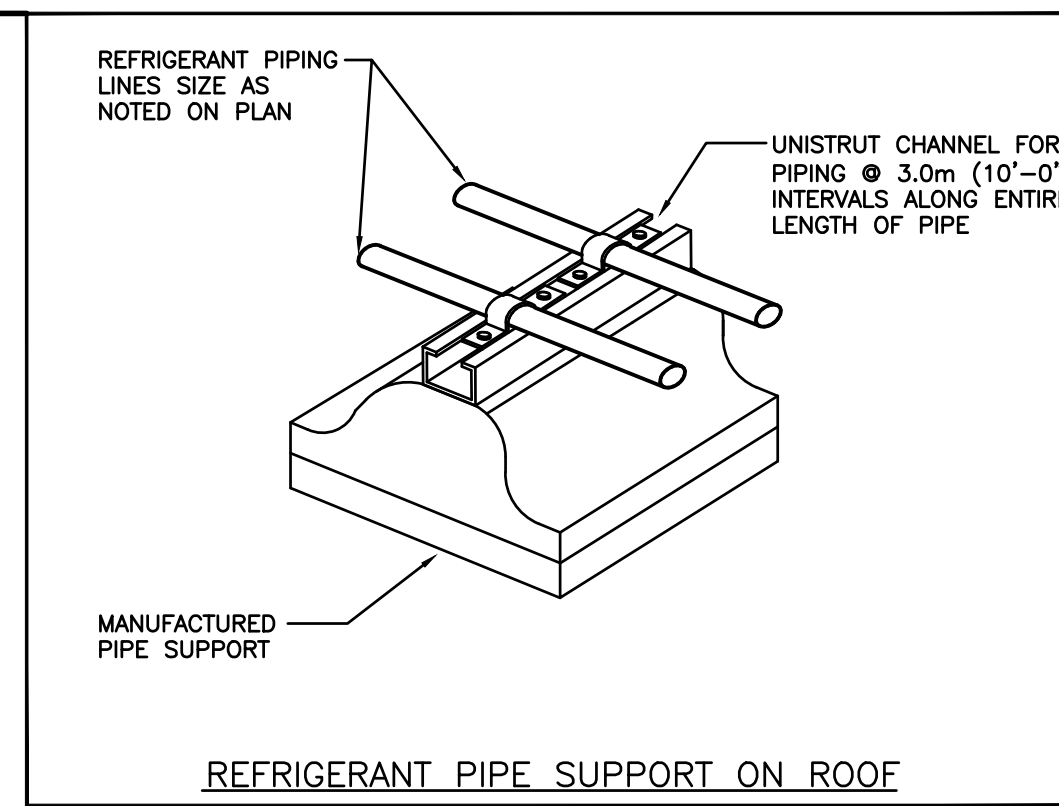
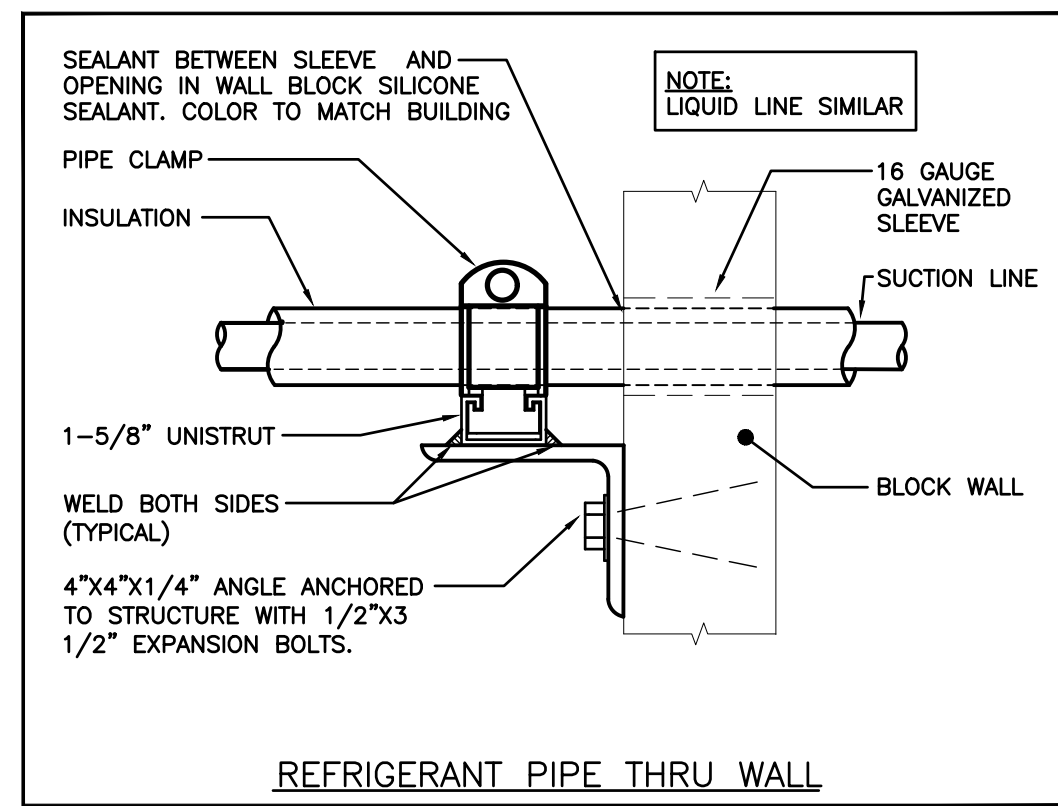
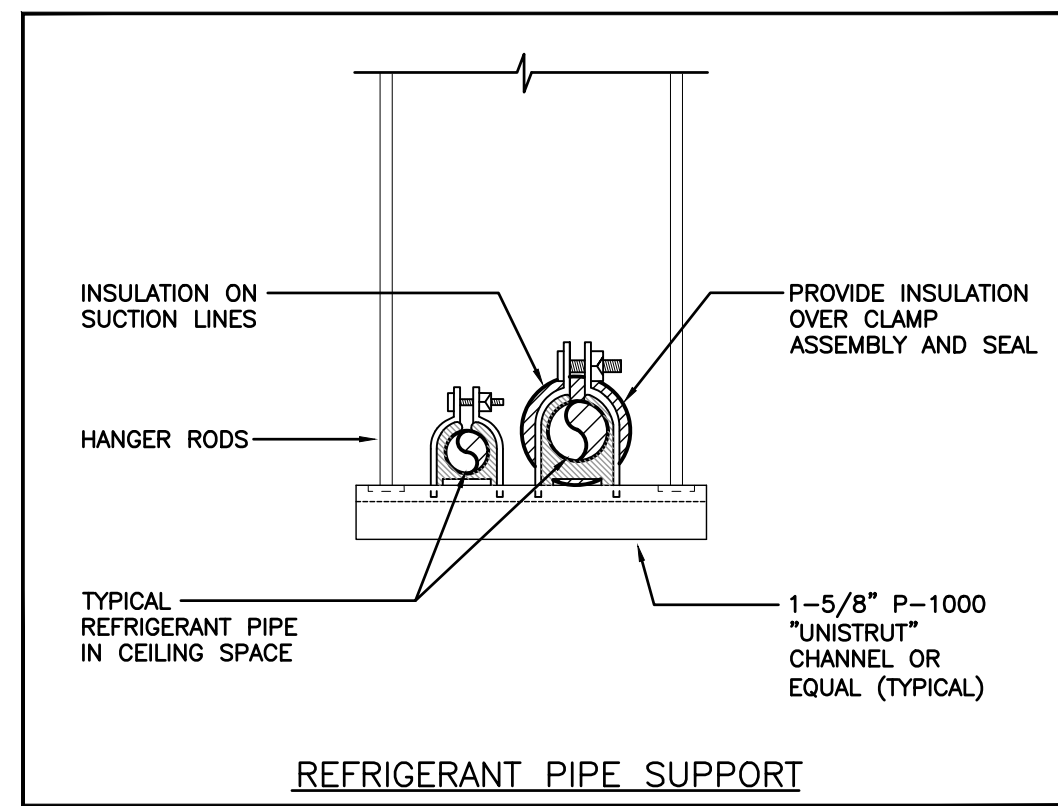
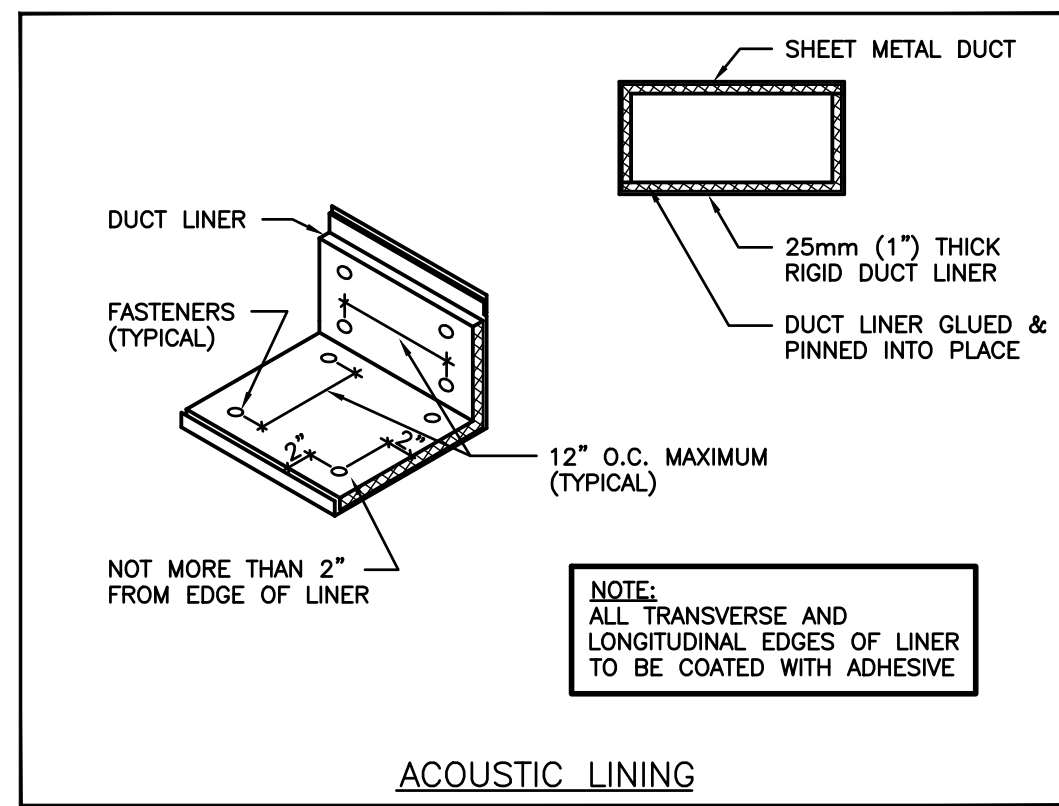
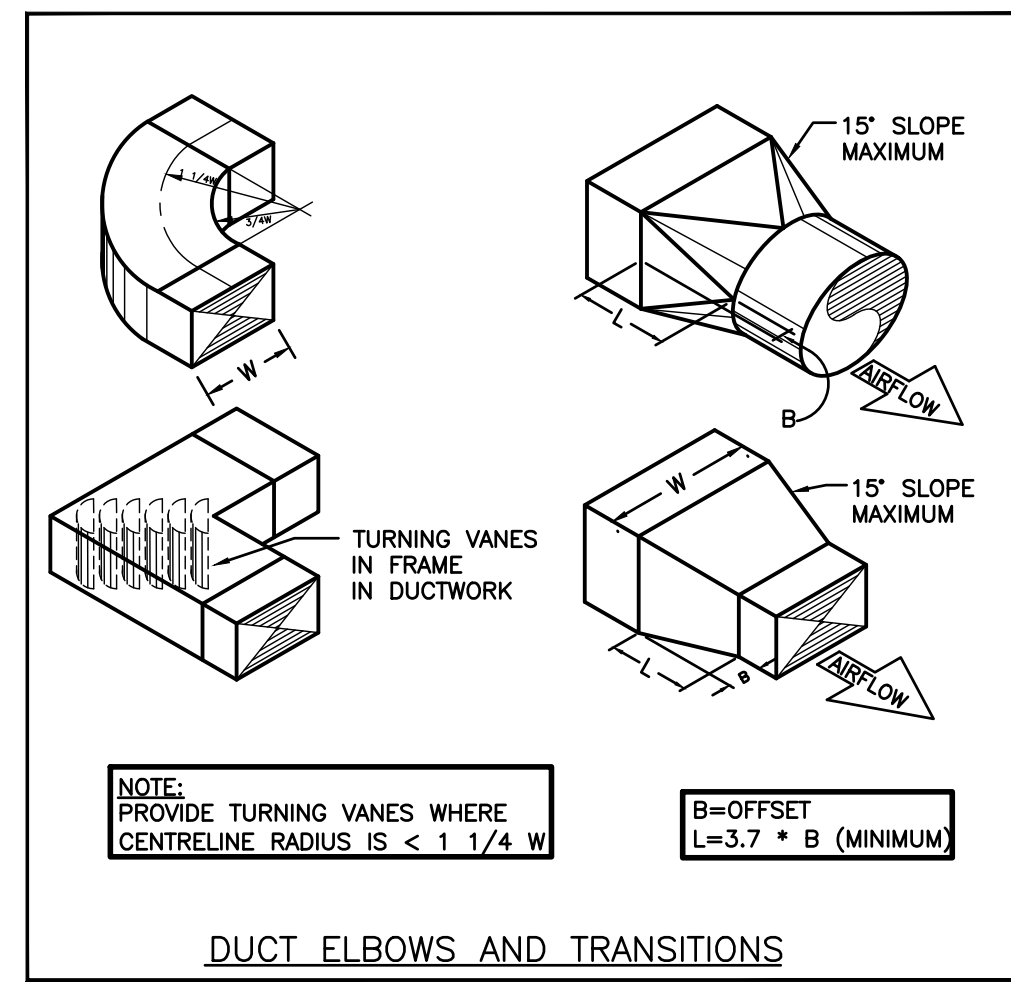


**2 WING A LEVEL 400 - BOYS W/R - DEMOLITION**  
 SCALE: 1 : 50



**3 WING A LEVEL 400 - BOYS W/R - RENOVATION**  
 SCALE: 1 : 50

ASHRAE 62.1 VENTILATION TABLE			
Area	Design OA	Min. OA	Remarks
CLASSROOM 321	600	400	
CLASSROOM 322	600	400	
CLASSROOM 323	600	400	
CLASSROOM 324	600	400	
CLASSROOM 325	600	400	
CLASSROOM 326	600	400	
COMPUTER LAB 418	600	420	
STAFF OFFICE 420	100	40	
SCIENCE LAB 421	600	480	
CLASSROOM 422	550	400	
SCIENCE LAB 423	600	480	
CLASSROOM 424	550	400	
TOTAL	6600	4620	



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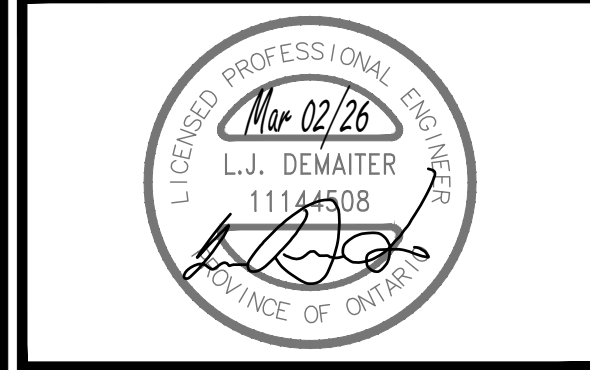
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No.	REVISIONS	DATE



ISSUED FOR TENDER/PERMIT	2026.03.02
CHRONOLOGY	DATE



PROJECT NAME  
**WATERLOO COLLEGIATE INSTITUTE HVAC AND EXTERIOR UPGRADES PHASE 2**  
 300 HAZEL ST., WATERLOO, ON, N2L 3P2

DRAWING TITLE  
**DETAILS**

SCALE AS NOTED	DRAWING NUMBER <b>M8.1</b>
SHEET SIZE 24x36	PROJECT NUMBER 2025-153