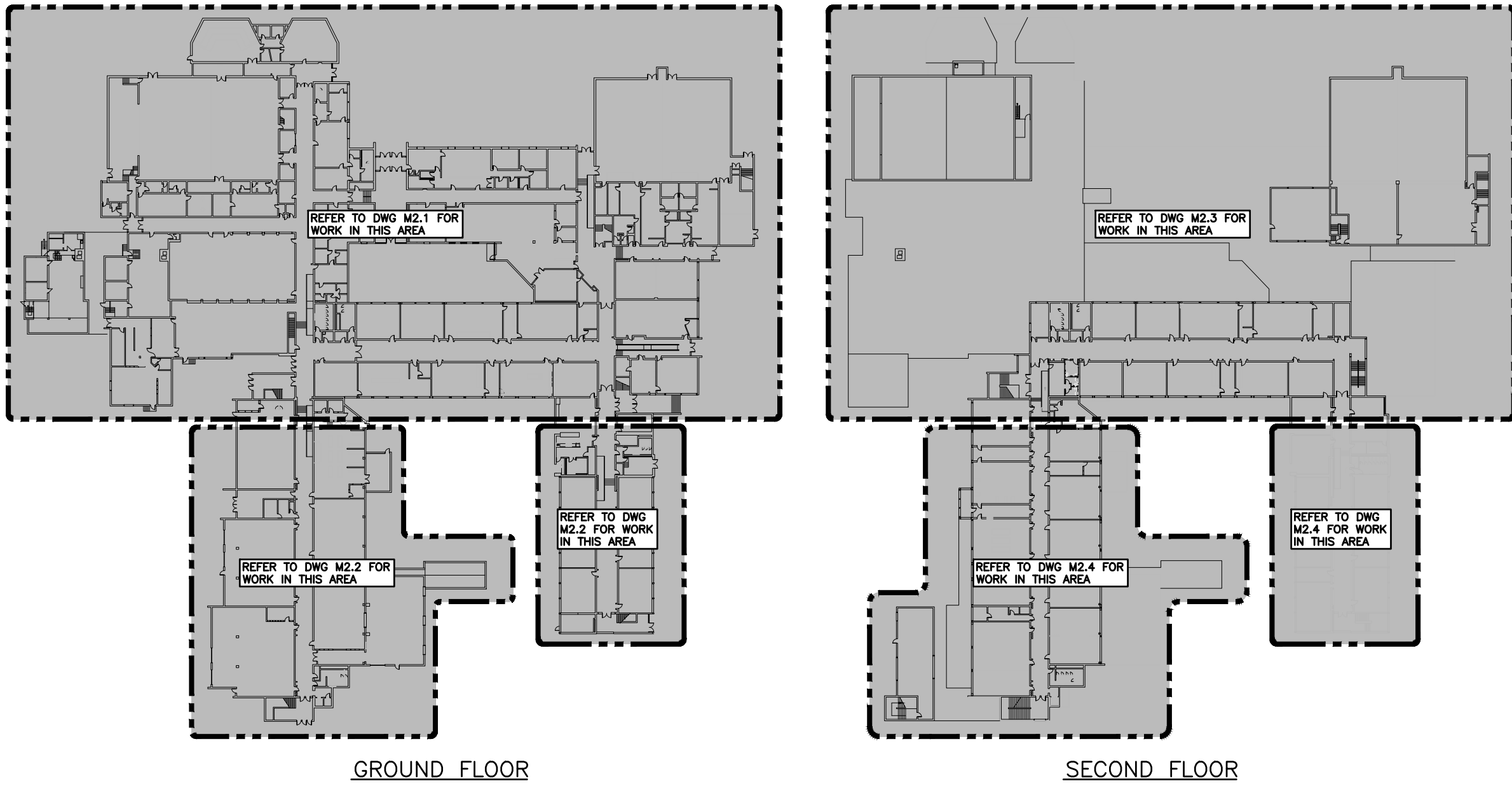


EQUIPMENT ACCESS TO SITE (PHASE 1)
SCALE: N.T.S.



KEY PLAN
SCALE: N.T.S.

GRILLE SCHEDULE (PHASE 1)

Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
D1	SQUARE CEILING DIFFUSER	NO	NONE	KRUEGER 1400A	4-CONE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK. SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME.
R1	CEILING RETURN GRILLE (NON-DUCTED)	NO	NONE	KRUEGER EG-5	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.
R2	CEILING RETURN GRILLE (DUCTED)	NO	NONE	KRUEGER S580	FIXED BLADE AT 45°, 1/2" SPACING, EXTRUDED ALUMINUM AIRFOIL BLADES PARALLEL TO LONG DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.
R3	SIDEWALL RETURN	NO	NONE	KRUEGER S85	FIXED BLADE AT 45°, 1/2" SPACING, EXTRUDED ALUMINUM AIRFOIL BLADES PARALLEL TO LONG DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.

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).

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

MECHANICAL LEGEND

Item	Description	Item	Description	Item	Description
CUT EXISTING & CONNECT NEW PIPING	—HWR—	HEATING WATER RETURN PIPING	TCV	TEMPERATURE CONTROL VALVE	
FLOW DIRECTION	—G—	NATURAL GAS PIPING	FE	WALL MOUNTED FIRE EXTINGUISHER	
DOMESTIC COLD WATER PIPING	—HPG—	HIGH PRESSURE NATURAL GAS PIPING	FB	FIRE BLANKET	
DOMESTIC HOT WATER PIPING	FD	FLOOR DRAIN	CO	FLOOR CLEANOUT	
NON-POTABLE DOMESTIC COLD WATER PIPING	FD BW	FLOOR DRAIN WITH BACKWATER VALVE	CO	LINE CLEANOUT	
NON-POTABLE DOMESTIC HOT WATER PIPING	—NP—	TRAP PRIMER	CO	THERMOSTAT (WITH OR WITHOUT GUARD)	
DOMESTIC HOT WATER RECIRC. PIPING	—T—	TEE CONNECTION	CO	HUMIDISTAT (WITH OR WITHOUT GUARD)	
DOMESTIC TEMPERED WATER PIPING	—H—	PIPE DOWN	CO	CARBON DIOXIDE (CO2) SENSOR (WITH OR WITHOUT GUARD)	
DOMESTIC HARD COLD WATER PIPING	—S—	PIPE UP	CO	TURNING VANES	
DOMESTIC SOFT COLD WATER PIPING	—EX-SAN—	CHECK VALVE	CO	SUPPLY AIR DUCT	
EXISTING SANITARY PIPING ABOVE FLOOR	—EX-SAN—	BACKFLOW PREVENTOR	CO	RETURN/EXHAUST AIR DUCT	
EXISTING SANITARY PIPING BELOW FLOOR	—SAN—	DOUBLE CHECK VALVE ASSEMBLY (DCCA) BACKFLOW PREVENTOR	CO	ACOUSTIC DUCT LINING	
SANITARY PIPING ABOVE FLOOR	—PD-SAN—	UNION	CO	BALANCING DAMPER	
SANITARY PIPING BELOW FLOOR	—AW—	STRAINER	CO	MOTORIZED DAMPER (OPPOSED BLADE)	
PUMPED SANITARY PIPING	—AV—	SCREWED OR WELDED PIPE CAP	CO	FIRE DAMPER	
ACID WASTE	—STM—	NO	CO	FLEXIBLE ROUND DUCT	
ACID VENT PIPING	—CD—	NORMALLY OPEN	CO	RIGID ROUND DUCT	
EXISTING STORM PIPING ABOVE FLOOR	—V—	NORMALLY CLOSED	CO	ALUMINUM DUCT	
EXISTING STORM PIPING BELOW FLOOR	—F—	PLUG VALVE	CO	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)	
STORM PIPING ABOVE FLOOR	—SP—	BALL VALVE	CO	HYDRONIC HEATING SIZE, TYPE & CAPACITY	
STORM PIPING BELOW FLOOR	—DSP—	BUTTERFLY VALVE	CO	RETURN IN CABINET	
CONDENSATE PIPING	—HWS—	GATE VALVE	CO	ABOVE FINISHED FLOOR	
VENT PIPING		MOTORIZED VALVE ACTUATOR	CO	AFR	
STANDPIPE PIPING		CONTROL VALVE ACTUATOR	CO	CONNECT TO EXISTING	
SPRINKLER PIPING		SOLENOID VALVE	CO	PUMPED	
DRY SPRINKLER PIPING		RISER VALVE	CO	EXISTING DUCT (SIZE AS INDICATED)	
HEATING WATER SUPPLY PIPING		BALANCING VALVE	CO		
		SUPERVISING VALVE	CO		

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- REFER TO SPECIFICATIONS FOR DETAILS REGARDING REQUIRED SHOP DRAWINGS SUBMISSIONS, INDEPENDENT SITE TESTING, AND SITE WORK NOTIFICATIONS.
- 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:
 - POTABLE WATER TEST (SEE SPEC 22 11 16 PART 3)
 - BACKFLOW TEST CERTIFICATE(S) FOR ALL TESTABLE DEVICES
 - COPY OF MANDATORY TSSA/CSA-B149 GAS PRESSURE TEST TAG
 - LETTER FROM CONTRACTOR VERIFYING THAT ALL REFRIGERATION LEAK DETECTION SYSTEMS AND THEIR INTERLOCKS TO DOWNSTREAM DEVICES HAVE BEEN INSTALLED AND TESTED.
 - TSSA CERTIFICATE OF AUTHORIZATION FOR SPLIT AIR CONDITIONING SYSTEMS (EXCEEDING 5 TONS)
- ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

CUSTOM INDOOR AIR HANDLING UNIT SCHEDULE (PHASE 2)

Item	Type	Supply Air Fan Data										Exhaust Air Fan Data										COOLING										HEATING										HEAT RECOVERY										Manufacturer	Model	Weight (lbs) (approx.)	Remarks				
		Service	Capacity cfm	Size in. w/c	Drive	ESP in. w/c	Voltage	MCA	MOCP	Capacity cfm	Size in. w/c	Drive	ESP in. w/c	Voltage	Medium	Coil Type	Sens.Cap. MBH	Total Cap. MBH	Rows Fins/in.	Ent. db/wb	Exit db/wb	L/VB db/wb	Face Vel. fpm	PD, Air in.	Medium	Capacity MBH	EAT db °F	Lat. db °F	Flow (gpm)	Type																													
HVAC-5	INDOOR BUILT UP AIR HANDLING UNIT	CLASSROOM ADDITION	15,000	20	VARIABLE 10HP/FREQUENCY DRIVE	1.25	208/3/60	118	125	15,000	20	DIRECT DRIVE	2.0	208/3/60	R410A	DX	453	504	8/8	80/66	53/51	495	0.95	WATER	789	40	160	82	SEGMENTED WHEEL	SG AMERICA HPR-1500T20	471	197	0.66	HAAKON	AIRPAK	13500±	C/W SEGMENTED ENERGY RECOVERY WHEEL, SUPPLY VFD, DIRECT DRIVE RETURN FAN ECM MOTORS, VARIABLE SPEED COMPRESSORS, ERW ECONOMIZER BYPASS (FREE COOLING), 200mm HIGH BASE, UNIT SHALL HAVE A MINIMUM OF 2 REFRIGERATION CIRCUITS. MINIMUM SCOR RATING FOR HVAC-5 SHALL BE 14KAIC.																						
GENERAL NOTES:																																																											
- ACCEPTABLE MANUFACTURERS: HAKON, DAIKIN, AAOON, ENVENTE, ENGINEERED AIR																														- CORROSION RESISTANT FASTENERS.										- 2" (50mm) MERV 8 FILTERS (OUTDOOR & EXHAUST AIRSTREAMS).										- CONTROLS LITE PACKAGE (ALL UNIT CONTROLS SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR).									
- UNIT SHIPPED IN SECTIONS TO STORAGE FACILITY, THEN TO SITE DURING PHASE 2 CONSTRUCTION. REFLECT TO MECHANICAL CASH ALLOWANCES.																														- SOLID UNDERLOOR LINER FACTORY PAINTED TO MATCH UNIT CASING FINISH.										- LOW LEAKAGE OUTDOOR AIR DAMPER (THERMALLY BROKEN) (3cfm/R2 @ 1.0" wc).										- HYDRONIC HEATING COIL, REFRIGERANT COIL, HOT GAS REHEAT COIL.									
- DOUBLE WALL CONSTRUCTION C/W 2" (50mm) R-13 FOAM INSULATION & PERMATECTOR FINISH.																														- FACTORY WIRED NON FUSED DISCONNECT.										- MOTORIZED RELIEF DAMPER, SPRING RETURN OUTDOOR AIR DAMPER (DAMPERS SHALL FAIL CLOSED).										- SEGMENTED UNIT TO VRY/VRF AIR SOURCE HEAT PUMP SYSTEM.									
																														- 2" (50mm) MERV 13 FILTERS (SUPPLY AIRSTREAM).																				- REFRIGERANT LEAK DETECTION.									

- GENERAL NOTES:
- ACCEPTABLE MANUFACTURERS: HAAKON, DAIKIN, AON, ENVENT, ENGINEERED AIR
 - UNIT SHIPPED IN SECTIONS TO STORAGE FACILITY, THEN TO SITE DURING PHASE 2 CONSTRUCTION. REFER TO MECHANICAL CASH ALLOWANCES.
 - DOUBLE WALL CONSTRUCTION C/W 2" (50mm) R-13 FOAM INSULATION & PERMATECTOR FINISH.
 - CORROSION RESISTANT FASTENERS.
 - SOLID UNDERFLOOR LINER FACTOR PAINTED TO MATCH UNIT CASING FINISH.
 - HINGED ACCESS DOORS.
 - FACTORY WIRED NON FUSED DISCONNECT.
 - 2" (50mm) MERV 13 FILTERS (SUPPLY AIRSTREAM).
 - 2" (50mm) MERV 8 FILTERS (OUTDOOR & EXHAUST AIRSTREAMS).
 - LOW LEAKAGE OUTDOOR AIR DAMPER (THERMALLY BROKEN) (3cfm/t2 @ 1.0" wc).
 - MOTORIZED RELIEF DAMPER, SPRING RETURN OUTDOOR AIR DAMPER (DAMPERS SHALL FAIL CLOSED).
 - CONTROLS LITE PACKAGE (ALL UNIT CONTROLS SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR).
 - HYDRONIC HEATING COIL, REFRIGERANT COIL, HOT GAS REHEAT COIL.
 - SEGMENTED UNIT TO VRV/VRF AIR SOURCE HEAT PUMP SYSTEM.
 - REFRIGERANT LEAK DETECTION.

INDOOR VRF BRANCH SELECTOR BOX SCHEDULE

Item	MCA	MOCP	Voltage	Manufacturer & Model	Remarks
BS-1A	0.4	15	208/1/60	DAIKIN BSF4Q54TVJ	
BS-1B	0.4	15	208/1/60	DAIKIN BSF4Q54TVJ	
BS-1C	0.4	15	208/1/60	DAIKIN BSF4Q54TVJ	
BS-2A	0.4	15	208/1/60	DAIKIN BSF4Q54TVJ	
BS-2B	0.4	15	208/1/60	DAIKIN BSF4Q54TVJ	
BS-2C	0.4	15	208/1/60	DAIKIN BSF4Q54TVJ	

AIR COOLED CONDENSING UNIT SCHEDULE

Item	Type	Cooling Capacity (BTU/h)		Refrig.	Piping Connections (in.)			Electrical			Manufacturer & Model
		Total Cooling	Heating Cooling		Liquid	LP Gas	HP Gas	Voltage	MCA	MOCP	
CU-3A1	OUTDOOR ROOF MOUNTED	147.0	166.0	R410A	3/4	1-3/8	1-1/8	208/3/60	61.9	70	DAIKIN REYQ33XBTJA
CU-3A2	OUTDOOR ROOF MOUNTED	147.0	166.0	R410A	3/4	1-3/8	1-1/8	208/3/60	61.9	70	DAIKIN REYQ33XBTJA
CU-3B1	OUTDOOR ROOF MOUNTED	147.0	166.0	R410A	3/4	1-3/8	1-1/8	208/3/60	61.9	70	DAIKIN REYQ33XBTJA
CU-3B2	OUTDOOR ROOF MOUNTED	147.0	166.0	R410A	3/4	1-3/8	1-1/8	208/3/60	61.9	70	DAIKIN REYQ33XBTJA

PUMP SCHEDULE

Item	Type	Capacity USgpm	Head ft	Size hp	Speed rpm	Manufacturer & Model	Remarks
P-10	CIRCULATION PUMP	82	10	0.5	1800	BELL & GOSSETT e-90 2A48	208/3/60. ACCEPTABLE ALTERNATIVES: ARMSTRONG, MYERS, TACO, HYDRAMATIC

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

*ESP IS EXTERNAL TO THE CABINET

FAN SCHEDULE (PHASE 1)

Item	Type	Capacity cfm	ESP in wc	Fan Speed rpm	Motor hp	Voltage	Acceptable Manufacturer	Description
EF-5	ROOF UPBLAST EXHAUST FAN (CHEMISTRY)	1200	0.375	1375	1/4	120/1/60	PENN BARRY 12BH	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, UPBLAST, W/BELT DRIVE CENTRIFUGAL BACKWARD INCLINED FAN, GALV BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, & BACKDRAFT DAMPER
EF-6	ROOF UPBLAST EXHAUST FAN (BIOLOGY)	1200	0.375	1375	1/4	120/1/60	PENN BARRY 12BH	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, UPBLAST, W/BELT DRIVE CENTRIFUGAL BACKWARD INCLINED FAN, GALV BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, & BACKDRAFT DAMPER
EF-7	ROOF UPBLAST EXHAUST FAN (FUME HOOD)	800	1.0	3135	3/4	208/3/60	PENN BARRY VPLUME 090-6	CONNECT TO FUMEHOOD, SPUN ALUMINUM MOTOR COVER & FAN SHROUD, UPBLAST, W/BELT DRIVE FAN, GALV BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, & BACKDRAFT DAMPER
EF-8	INLINE DUCT MOUNTED EXHAUST	450	0.25	1550	Fhp	120/1/60	PENN BARRY Z10H	C/W VIBRATION ISOLATION HANGERS. <u>REVERSE-ACTING THERMOSTAT BY ELECTRICAL DIVISION</u>

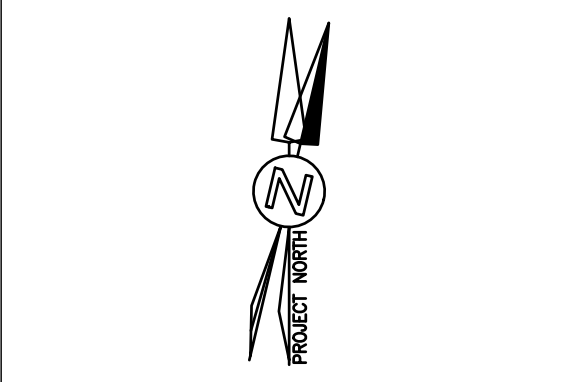
GENERAL FAN NOTES:
1. ACCEPTABLE MANUFACTURERS: GREENHECK, PENN-BARRY, COOK, CARNES, ACME, TWIN CITY, JENCO, BUFFALO.
2. PROVIDE 24" TALL PREFABRICATED, INSULATED ROOF CURB FOR ALL ROOF MOUNTED FANS.

ACID NEUTRALIZING TANK SCHEDULE (PHASE 1)

Item	Type	Empty Capacity gal.	Actual Capacity gal.	Limestone Charge lbs	Dimensions	Manufacturer	Model	Remarks
NT-1	MOUNTED ON FLOOR	68	30	900	30" x 42"	SMS	AN-170	MOUNT FLUSH WITH FLOOR C/W FRAME RING, TRUSS HEAD BOLTS, HOT SUNK SECURING NUTS, 3/32" THICK NON-SKID STILL TOP & EXTENSION C/W MONITOR PANEL.
SI-1	MOUNTED IN MILLWORK	N/A	N/A	N/A	8.5" x 12.5"	SMS	SI-MQ	INSTALL IN MILLWORK BELOW SINK. FOR LOCATIONS & QUANTITIES, REFER TO PLANS.

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. © 2025 DEI Consulting Engineers.

No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT & TENDER	2025.03.05
3	ISSUED FOR ADDENDUM 1	2025.03.20
4	ISSUED FOR CONSTRUCTION	2025.05.14



CHRONOLOGY	DATE

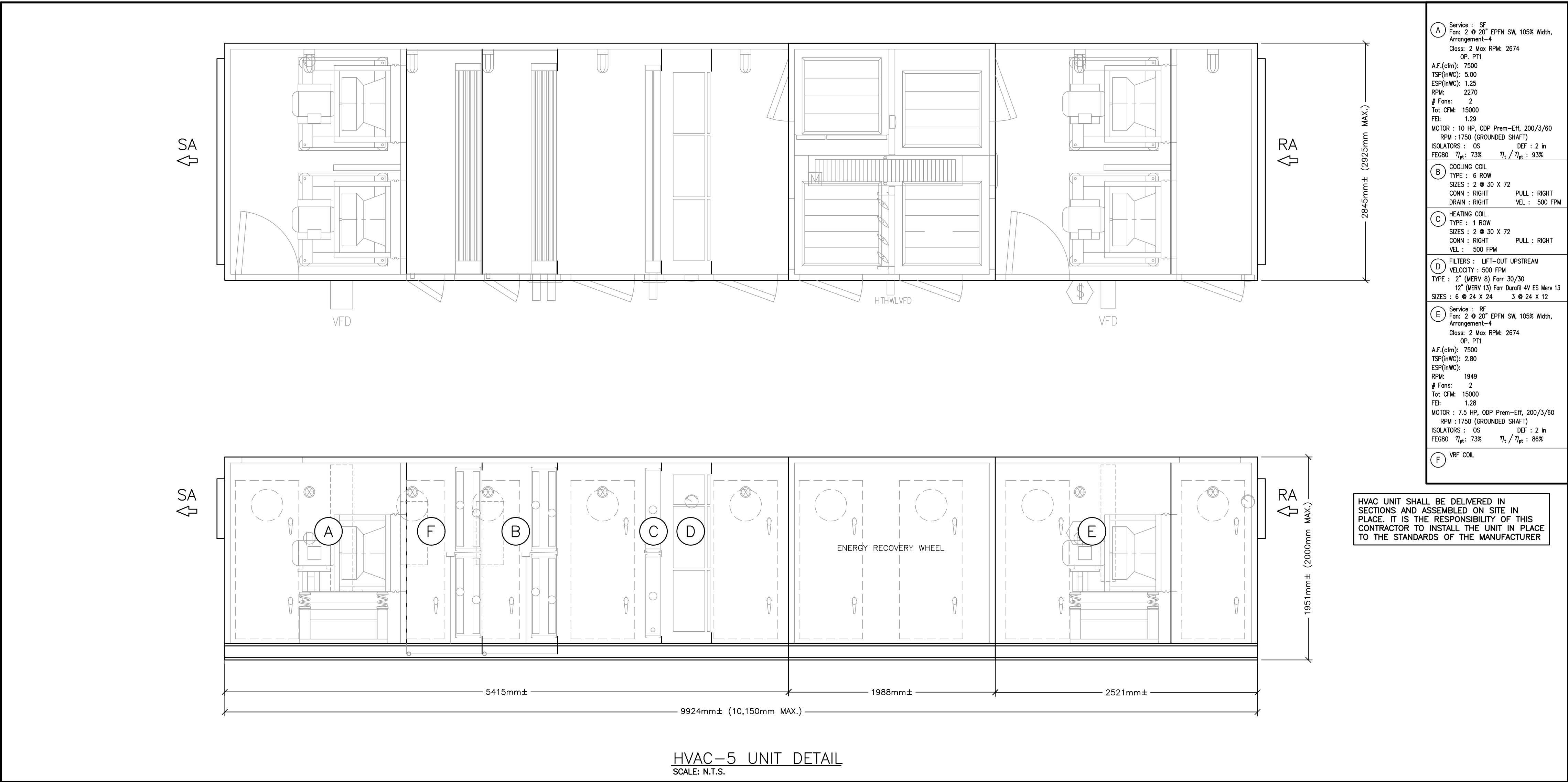


PROJECT NAME
GLENVIEW PARK SECONDARY SCHOOL
55 McKay Street Cambridge, Ontario

DRAWING TITLE KEY PLAN, LEGEND & SCHEDULES	SCALE AS NOTED	DRAWING NUMBER M1.1
SHEET SIZE 24x36	PROJECT NUMBER	

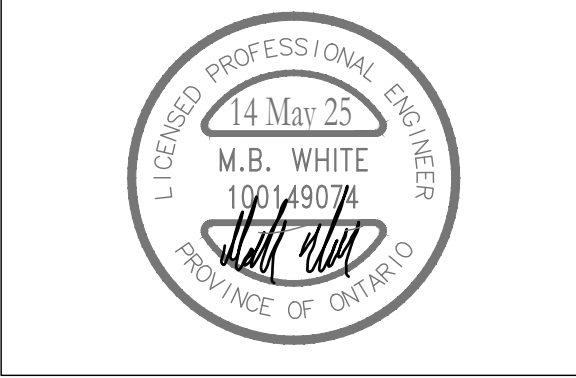
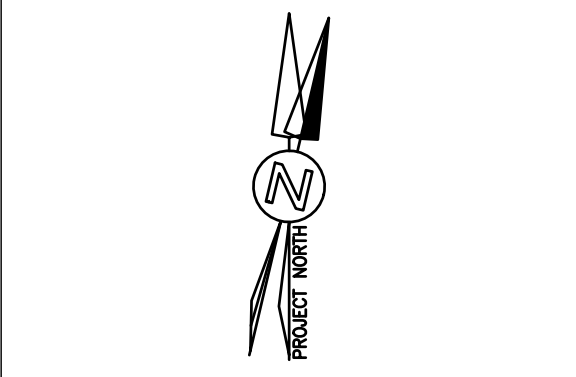
PLUMBING FIXTURE SCHEDULE (PHASE 1)

Item	Type	Connection Sizes					Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessories	
		HW	CW	TW	Drain	Vent						Accessory Description	
S-1	STAINLESS STEEL SCIENCE SINK (STUDENT)	15			40	32	KINDRED LBS6407/316-1/3 NOVANNI 1013/316	SINK: SINGLE COMPARTMENT, LEDGE-BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 316 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 410 mm X 520 mm X 175 mm (18 1/8" X 20 5/8" X 7").	DELTA W660-10 ZURN Z825B1 MOEN COMMERCIAL 8103	FAUCET: CHROME PLATED BRASS, LABORATORY TYPE WITH GOOSENECK SWING SPOUT WITH SERRATED NOZZLE, ANGLE VACUUM BREAKER, AERATOR, INDEXED HOODED LEVER HANDLE, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 3.80 l/min (1.1 gpm) AT 413 kPa (60 psi).			
S-2	BARRIER FREE STAINLESS STEEL SCIENCE SINGLE SINK (STUDENT)	15			40	32	KINDRED LBS6407/316-1/3 NOVANNI 1013/316	SINK: SINGLE COMPARTMENT, LEDGE-BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 316 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 410 mm X 520 mm X 175 mm (18 1/8" X 20 5/8" X 7").	DELTA W660-10 ZURN Z825B1 MOEN COMMERCIAL 8103	FAUCET: CHROME PLATED BRASS, LABORATORY TYPE WITH GOOSENECK SWING SPOUT WITH SERRATED NOZZLE, ANGLE VACUUM BREAKER, AERATOR, INDEXED HOODED LEVER HANDLE, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 3.80 l/min (1.1 gpm) AT 413 kPa (60 psi).		INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.	
S-3	STAINLESS STEEL SCIENCE SINK (TEACHER)	15	15		40	32	KINDRED LBS6807/316-1/3 NOVANNI 1017/316	SINK: SINGLE COMPARTMENT, LEDGE-BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 316 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 510 mm X 520 mm X 175 mm (20" X 20 1/2" X 7").	DELTA W6720 ZURN Z825B1-6F MOEN COMMERCIAL 8113	FAUCET: CHROME PLATED BRASS, LABORATORY TYPE WITH GOOSENECK SWING SPOUT WITH SERRATED NOZZLE, VACUUM BREAKER, AERATOR, INDEXED HOODED LEVER HANDLES, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).			
EW-1	EYE WASH	15	15		32	32	HAWS 7260BT-7270BT BRADLEY S19-220 GUARDIAN G1750P-TMW	250 MM (10") DIAMETER IMPACT RESISTANT BOWL CHROME PLATED BRASS SPRAY HEADS COMPLETE WITH COVERS, AND WALL MOUNTING BRACKET. TEPID WATER MIXING VALVE MEETING REQUIREMENTS OF ANSI STANDARD Z358.1-2004. MIXING VALVE IS TO PROVIDE WATER TEMPERATURE BETWEEN 15.5°C (60") AND 38°C (100°F). 15 MM (1/2") CHROME PLATED BRASS STAY OPEN BALL VALVE COMPLETE WITH PUSH HANDLE.			HAWS TWBS,EWE BRADLEY S19-2000 GUARDIAN G3600	TEMPERING VALVE TO BLEND HOT AND COLD WATER TO DELIVER TEPID WATER. AS REQUIRED BY ANSI Z358.1	
G-1	GAS TURRET (DOUBLE) STUDENT						DELTA W6225 ZURN	COUNTER MOUNTED DOUBLE BALL VALVE HOSE COCK 180° PATTERN. VANDAL RESISTANT HANDLE, INDEX BUTTON, O-RING SEAL, SERRATED HOSE, TAILPIECE WITH COUPLING NUT.					
G-2	GAS TURRET (DOUBLE) (TEACHER)						DELTA W6220 ZURN	COUNTER MOUNTED DOUBLE BALL VALVE HOSE COCK 90° PATTERN. VANDAL RESISTANT HANDLE, INDEX BUTTON, O-RING SEAL, SERRATED HOSE, TAILPIECE WITH COUPLING NUT.					
FD-1	ELEVATOR SUMP DRAIN				NOTED 1	1/2	ZURN Z-629 WATTS DRAINAGE MIFAB CONTOUR C2900NB	GENERAL DUTY VERTICAL WALL DRAIN, CAST IRON BODY, CLAMPING COLLAR, NICKEL-BRONZE STRAINER. C/W INTEGRAL BACKWATER VALVE					

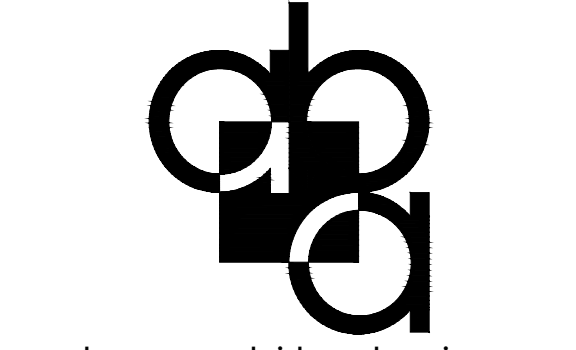


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4	ISSUED FOR CONSTRUCTION	2025.05.14



CHRONOLOGY	DATE

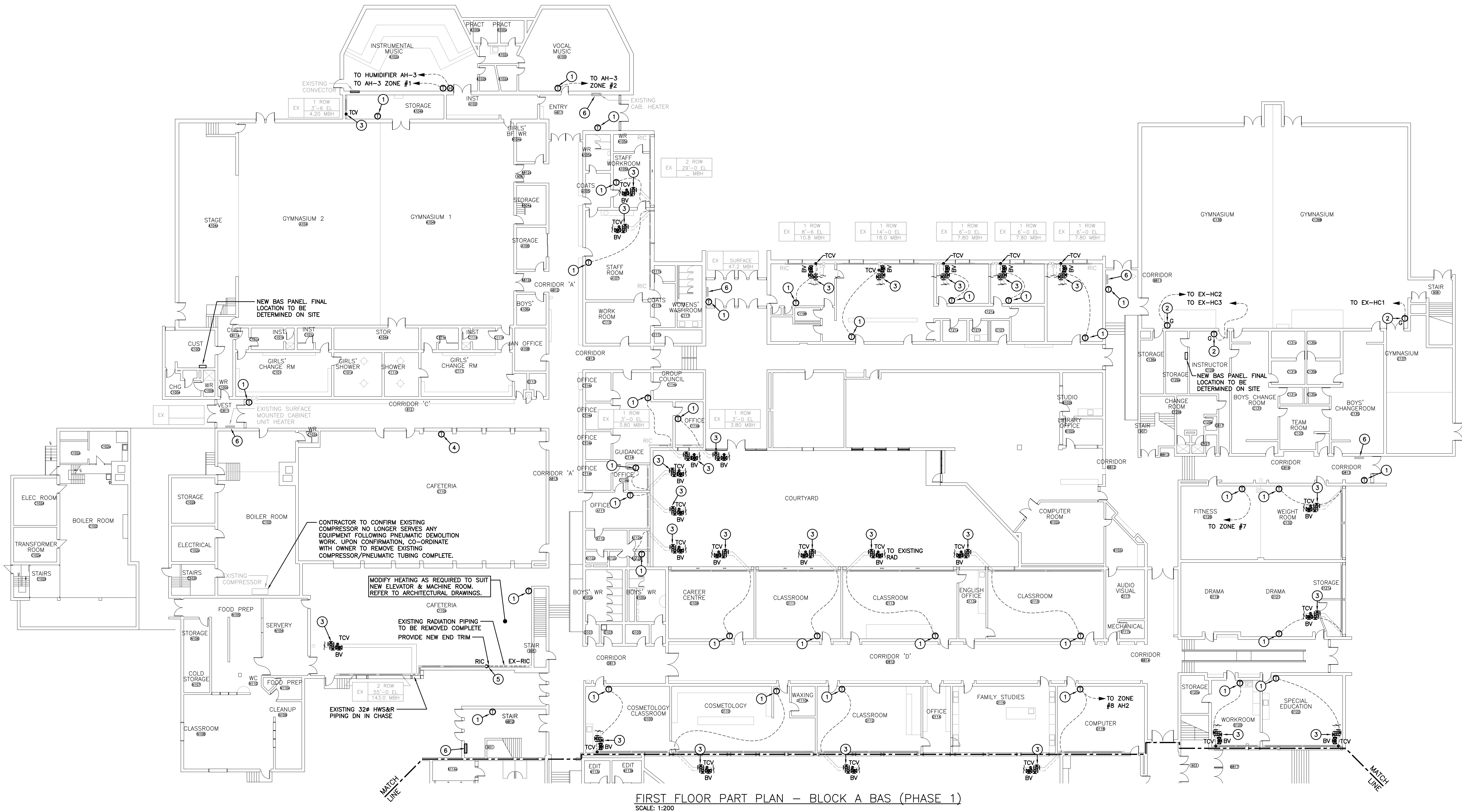


PROJECT NAME
GLENVIEW PARK SECONDARY SCHOOL
55 McKay Street Cambridge, Ontario

DRAWING TITLE
SCHEDULES

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	
24x36	
PROJECT NUMBER	

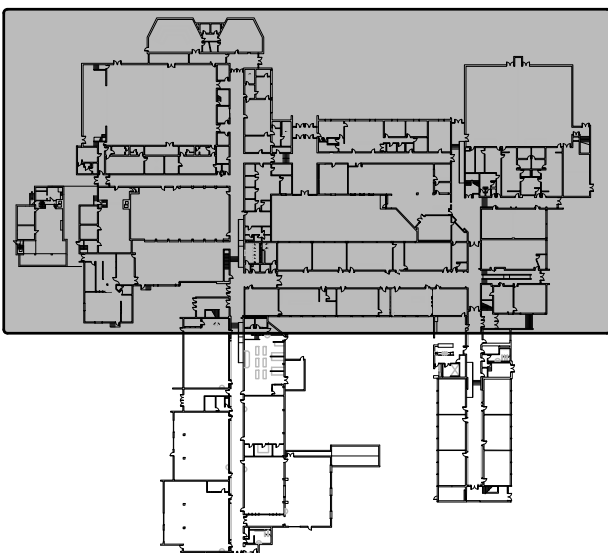
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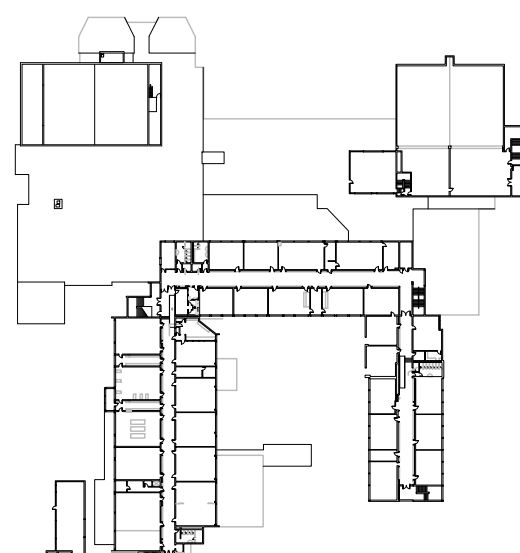
FIRST FLOOR PART PLAN – BLOCK A BAS (PHASE 1)
SCALE: 1:200

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

IDENTIFIED PRICE WORK
ALL WORK SHOWN TO REPLACE THE EXISTING PNEUMATIC CONTROLS WITH DDC CONTROLS IS AN IDENTIFIED PRICE.



GROUND FLOOR



SECOND FLOOR

KEY PLAN
SCALE: N.T.S.

GENERAL DEMOLITION NOTES

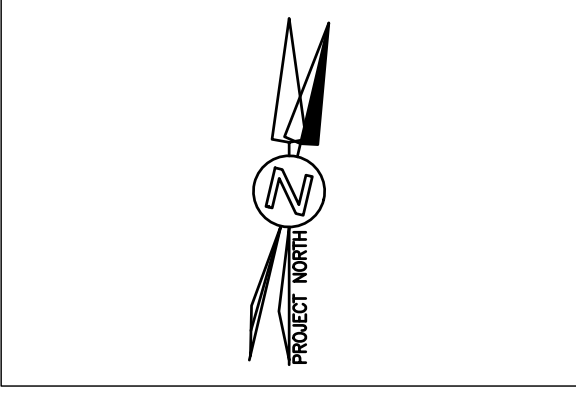
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES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

SPECIFIC DEMO/RENO NOTES

- EXISTING PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION. PROVIDE NEW DDC THERMOSTAT.
- EXISTING THERMOSTAT CONTROLS TO BE REMOVED COMPLETE & REPLACED WITH NEW DDC CONTROLS (PLATE SENSOR) TO CONTROL NEW TCV IN MECH ROOM. NEW TCV TO BE SUPPLIED BY BAS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- EXISTING TCV, ISOLATION, & BALANCING VALVES TO BE REMOVED AND REPLACED WITH NEW. SIZE TO MATCH EXISTING.
- EXISTING PNEUMATIC CONTROL VALVE(S) TO BE REMOVED FROM BOOSTER COIL(S) & REPLACED W/ NEW DDC CONTROL VALVE(S). NEW TOV(S) TO BE SUPPLIED BY BAS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- EXISTING RADIATION CABINET, PIPING & WALLFIN TO BE CUT & REMOVED BEYOND COMPLETE. PROVIDE NEW END TRIM TO MATCH EXISTING CABINET HEIGHT.
- EXISTING STANDALONE CONTROL TO BE REMOVED COMPLETE. INTEGRATE EXISTING INTO NEW DDC BAS SYSTEM.

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. © 2025 DEI Consulting Engineers.

No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT & TENDER	2025.03.05
3	ISSUED FOR ADDENDUM 1	2025.03.20
4	ISSUED FOR ADDENDUM 2	2025.03.24
5	ISSUED FOR CONSTRUCTION	2025.05.14



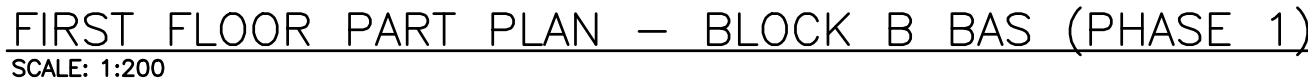
CHRONOLOGY	DATE



PROJECT NAME
GLENVIEW PARK SECONDARY SCHOOL
55 McKay Street Cambridge, Ontario

DRAWING TITLE
FIRST FLOOR PART PLAN - BLOCK A BAS (PHASE 1)

SCALE AS NOTED	DRAWING NUMBER M2.1
SHEET SIZE 24x36	
PROJECT NUMBER	



ALL WORK SHOWN TO REPLACE THE
EXISTING PNEUMATIC CONTROLS WITH
DDC CONTROLS IS AN IDENTIFIED PRICE.



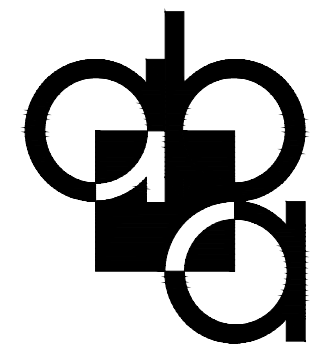
1. EXISTING PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE. EXISTING TUBING TO BE REMOVED. TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION. PROVIDE NEW DDC THERMOSTAT.
2. EXISTING THERMOSTAT CONTROLS TO BE REMOVED COMPLETE & REPLACED WITH NEW DDC CONTROLS (PNEUMATIC SENSOR) TO CONTROL NEW TCV IN MECH ROOM. NEW TCV TO BE SUPPLIED BY BAS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
3. EXISTING TCV, ISOLATION, & BALANCING VALVES TO BE REMOVED AND REPLACED WITH NEW. SIZE TO MATCH EXISTING.
4. EXISTING PNEUMATIC CONTROL VALVE(S) TO BE REMOVED FROM BOOSTER COIL(S) & REPLACED W/ ELECTRIC CONTR. VALVE(S). NEW VALVE(S) TO BE SUPPLIED BY BAS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
5. EXISTING RADIATION CABINET, PIPING & WALLFIN TO BE CUT & REMOVED BEFORE COMPLETE. PROVIDE NEW END TRIM TO MATCH EXISTING CABINET HEIGHT.
6. EXISTING STANDALONE CONTROL TO BE REMOVED COMPLETE. INTEGRATE EXISTING INTO NEW DDC BAS SYSTEM.

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 conditions permit. The Consultant will approve 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 the Consultant for their approval. 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 to be used only for the project and without the consent of the Consultant.

Do not scale this drawing.

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4	ISSUED FOR ADDENDUM 2	2025.03.24
5	ISSUED FOR CONSTRUCTION	2025.05.14

[illegible]

aba architects inc.
101 Randall Drive, Unit 8, Waterloo ON, TEL 519 884 2711 www.abarchitect.ca



PROJECT NAME

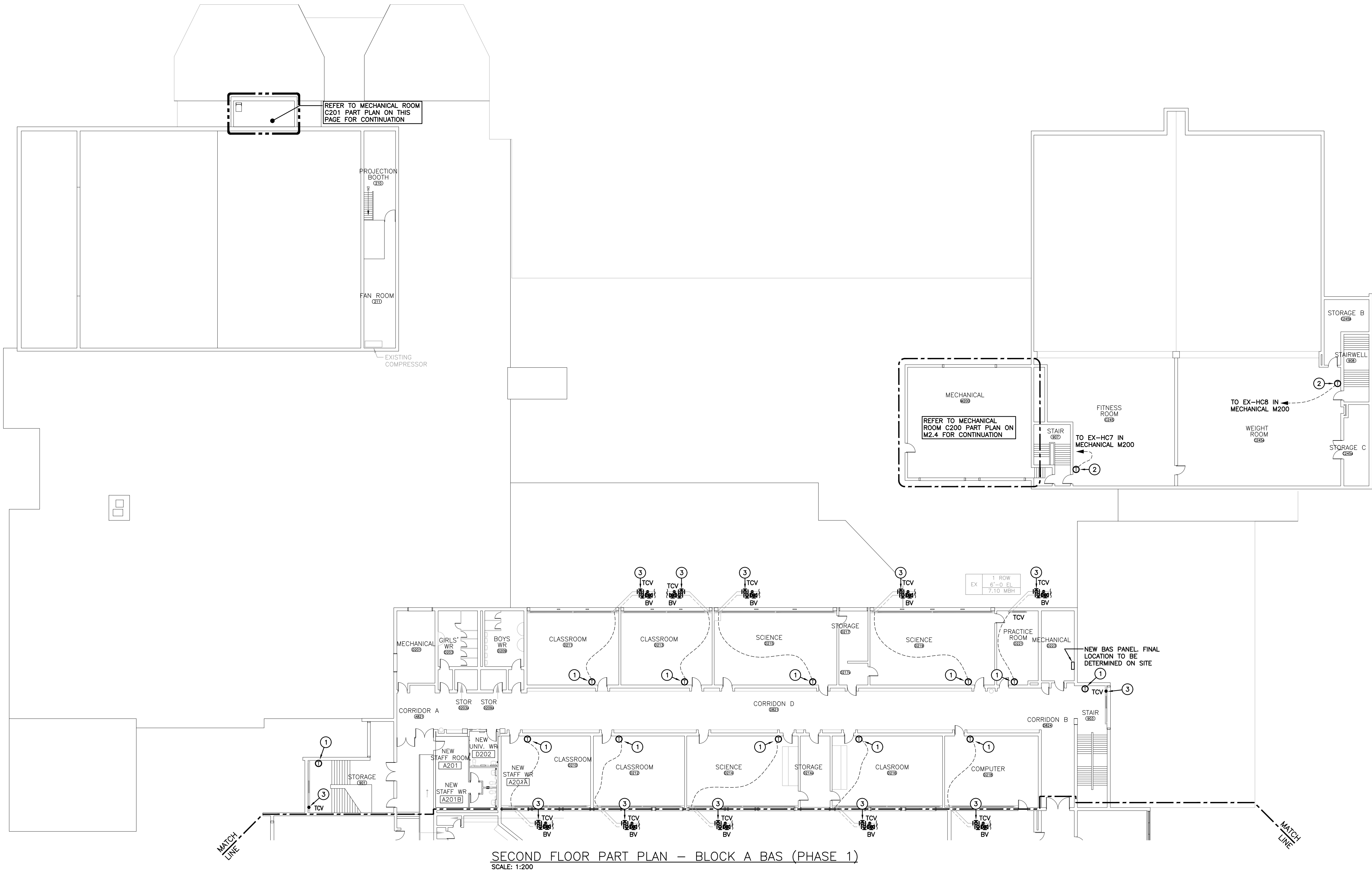
GLENVIEW PARK
SECONDARY SCHOOL

55 McKay Street Cambridge, Ontario

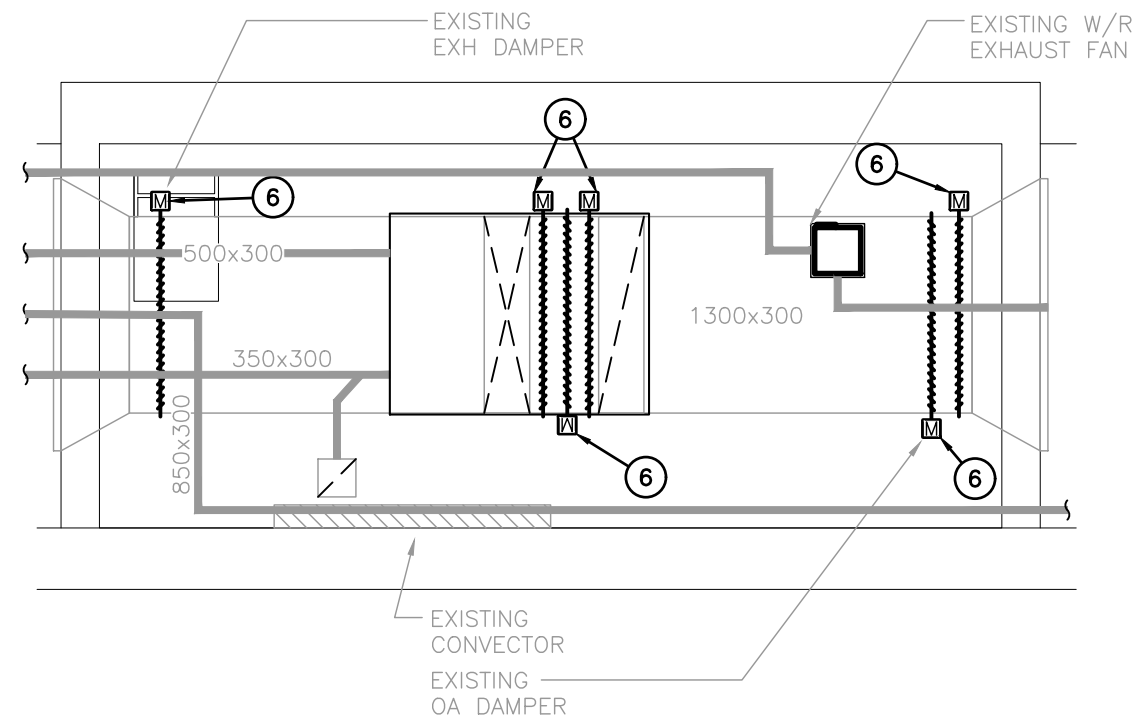
DRAWING TITLE

FIRST FLOOR PART
PLAN - BLOCK B BAS
(PHASE 1)

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



SECOND FLOOR PART PLAN – BLOCK A BAS (PHASE 1)
SCALE: 1:200

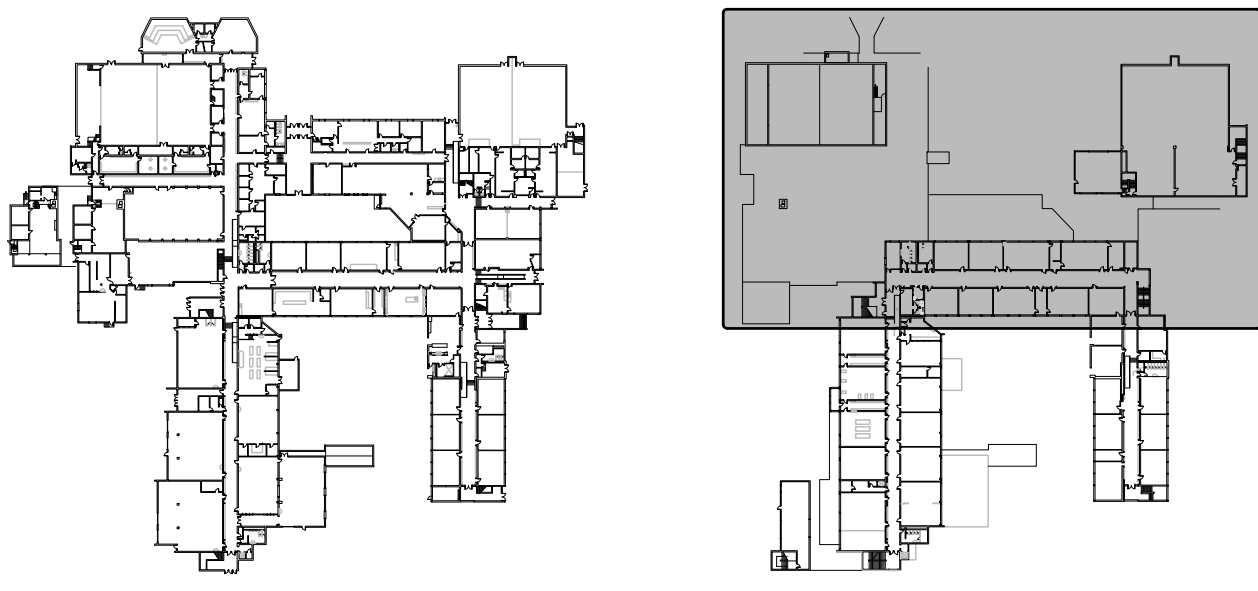


MECHANICAL ROOM C201 PART PLAN (PHASE 1)
SCALE: 1:50

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

IDENTIFIED PRICE WORK

ALL WORK SHOWN TO REPLACE THE EXISTING PNEUMATIC CONTROLS WITH DDC CONTROLS IS AN IDENTIFIED PRICE.



GROUND FLOOR

SECOND FLOOR

KEY PLAN
SCALE: N.T.S.

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 DEMO/RENO NOTES

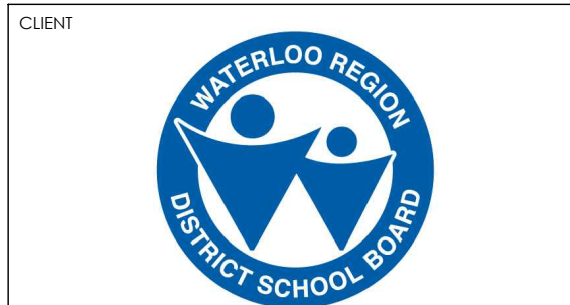
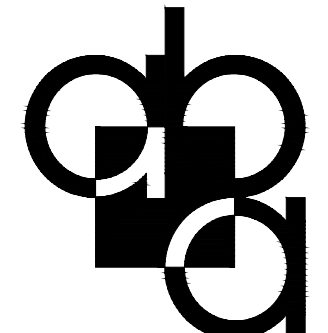
- EXISTING PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION. PROVIDE NEW DDC THERMOSTAT.
- EXISTING THERMOSTAT CONTROLS TO BE REMOVED COMPLETE & REPLACED WITH NEW DDC CONTROLS (PLATE SENSOR) TO CONTROL NEW TCV IN MECH ROOM. NEW TCV TO BE SUPPLIED BY BAS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
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- EXISTING RADIATION CABINET, PIPING & WALLFIN TO BE CUT & REMOVED BEYOND COMPLETE. PROVIDE NEW END TRIM TO MATCH EXISTING CABINET HEIGHT.
- EXISTING PNEUMATIC MOTORIZED DAMPER ACTUATOR TO BE REMOVED COMPLETE. PROVIDE NEW DDC ACTUATOR.

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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4	ISSUED FOR ADDENDUM 2	2025.03.24
4	ISSUED FOR CONSTRUCTION	2025.05.14



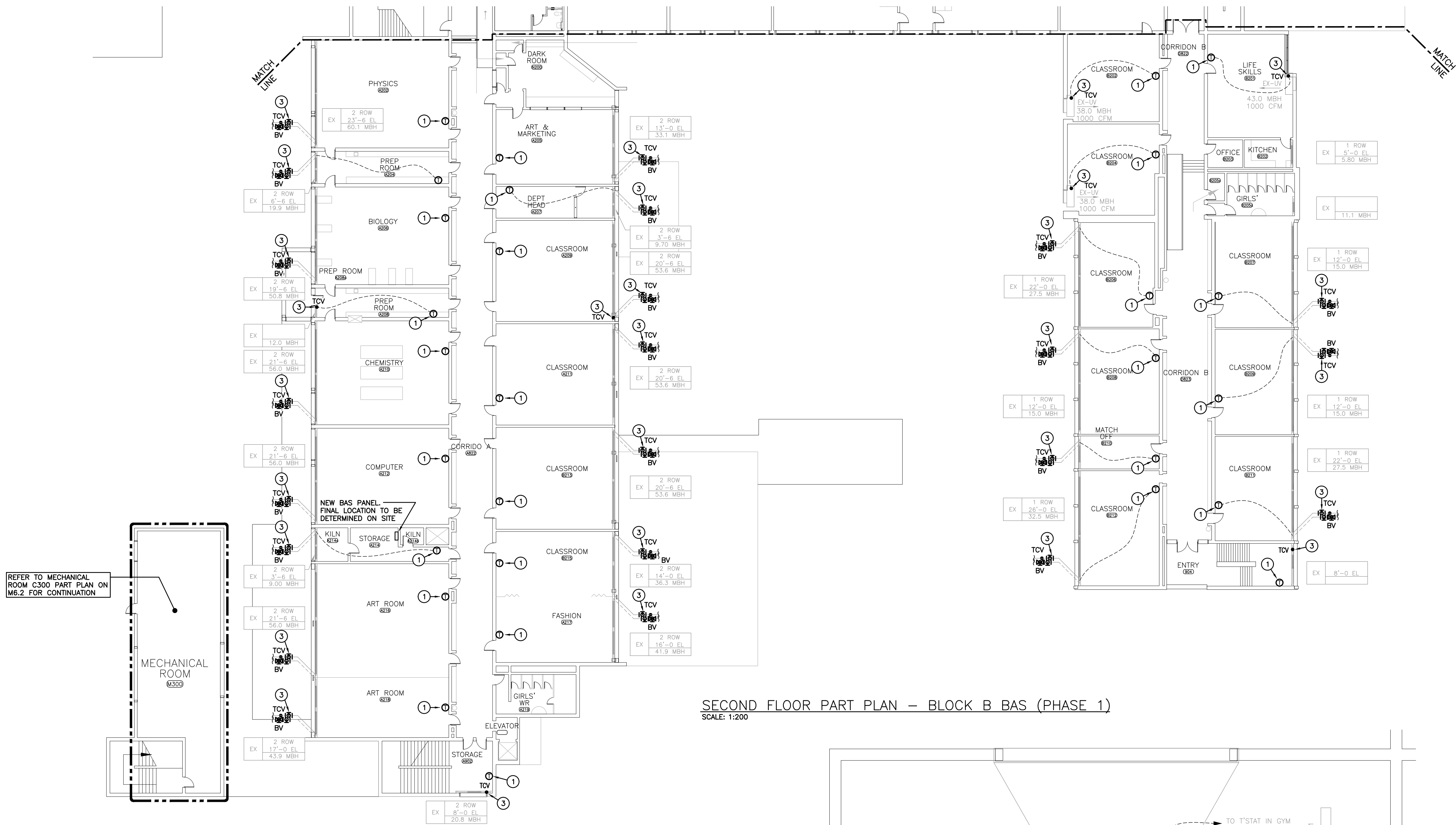
CHRONOLOGY	DATE



PROJECT NAME
GLENVIEW PARK SECONDARY SCHOOL
55 McKay Street Cambridge, Ontario

DRAWING TITLE
SECOND FLOOR PART PLAN - BLOCK A BAS (PHASE 1)

SCALE AS NOTED	DRAWING NUMBER M2.3
SHEET SIZE 24x36	
PROJECT NUMBER	



SECOND FLOOR PART PLAN – BLOCK B BAS (PHASE 1)
SCALE: 1:200

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

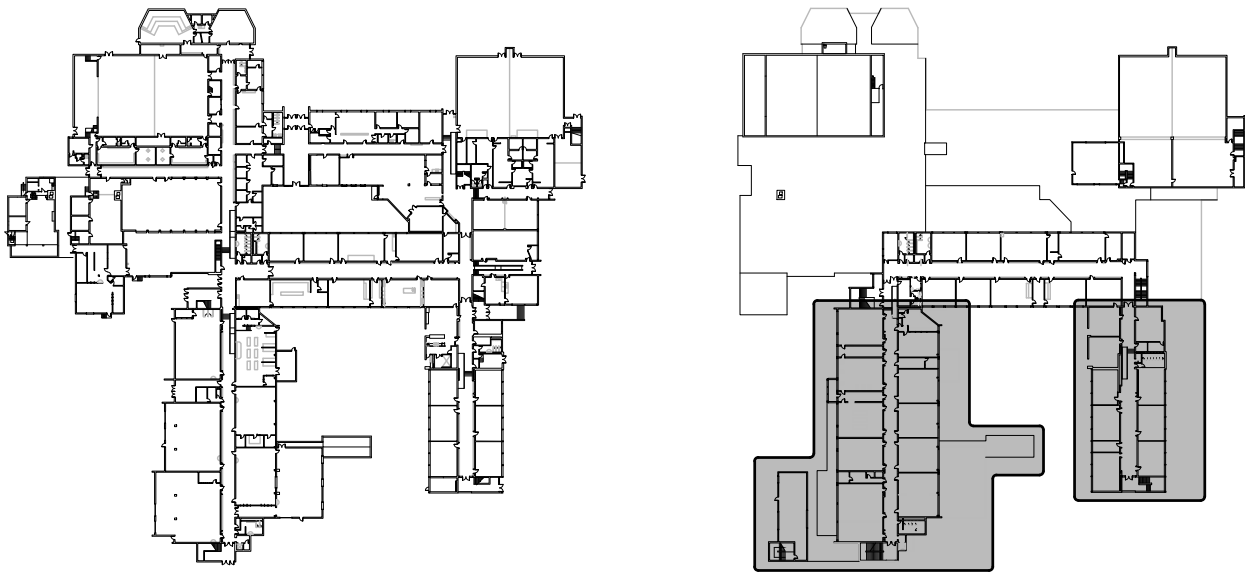
IDENTIFIED PRICE WORK
ALL WORK SHOWN TO REPLACE THE EXISTING PNEUMATIC CONTROLS WITH DDC CONTROLS IS AN IDENTIFIED PRICE.

GENERAL DEMOLITION NOTES

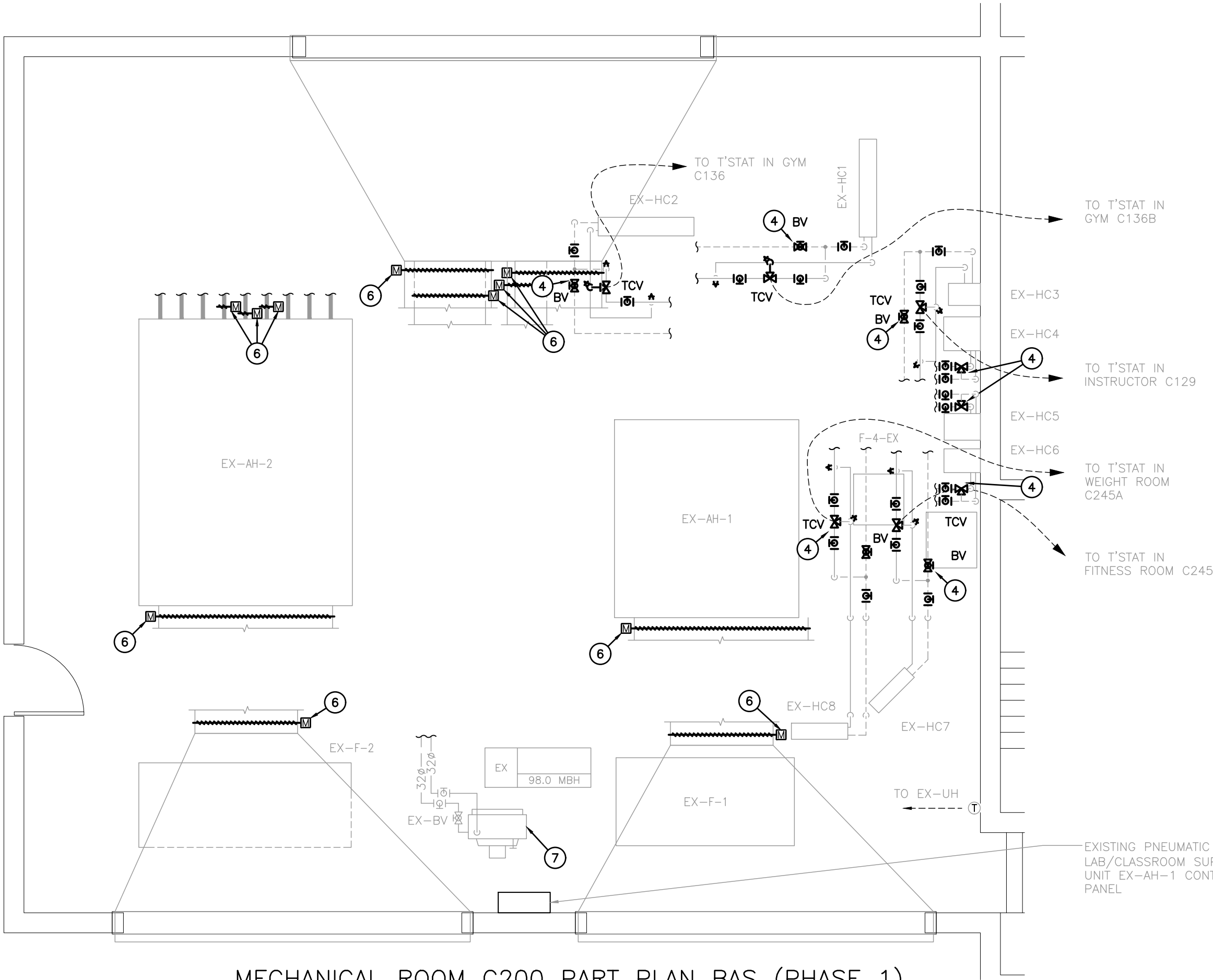
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES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

- EXISTING PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION. PROVIDE NEW DDC THERMOSTAT.
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- EXISTING RADIATION CABINET, PIPING & WALL/FIN TO BE CUT & REMOVED BEYOND COMPLETE. PROVIDE NEW END TRIM TO MATCH EXISTING CABINET HEIGHT.
- EXISTING PNEUMATIC MOTORIZED DAMPER ACTUATOR TO BE REMOVED COMPLETE. PROVIDE NEW DDC ACTATOR.
- EXISTING UNIT HEATER TO BE INTEGRATED TO BAS. ALL EXISTING CONTROLS, ACTUATORS, AND SENSORS TO BE REPLACED COMPLETE.



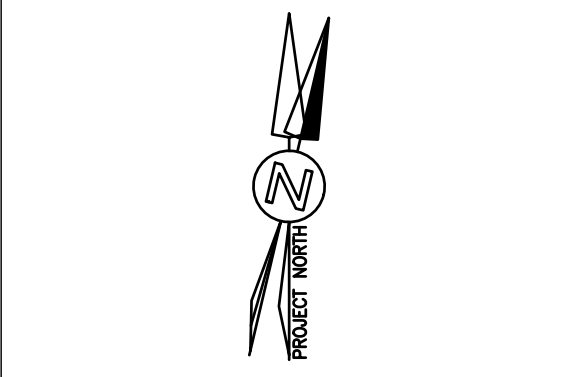
KEY PLAN
SCALE: N.T.S.



MECHANICAL ROOM C200 PART PLAN BAS (PHASE 1)
SCALE: 1:50

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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2	ISSUED FOR PERMIT & TENDER	2025.03.05
3	ISSUED FOR ADDENDUM 1	2025.03.20
4	ISSUED FOR ADDENDUM 2	2025.03.24
5	ISSUED FOR CONSTRUCTION	2025.05.14



CHRONOLOGY	DATE



PROJECT NAME
GLENVIEW PARK SECONDARY SCHOOL
55 McKay Street Cambridge, Ontario

DRAWING TITLE
SECOND FLOOR PART PLAN - BLOCK B BAS (PHASE 1)

SCALE AS NOTED	DRAWING NUMBER M2.4
SHEET SIZE 24x36	
PROJECT NUMBER	

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

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[illegible][illegible]

CLIENT

The logo of the Waterloo Region District School Board is a circular emblem. It features a stylized sun with two dots for eyes and a triangular body, positioned above a stylized mountain range with two peaks. The words "WATERLOO REGION" are written in a semi-circle at the top, and "DISTRICT SCHOOL BOARD" is written in a semi-circle at the bottom, both in capital letters.

PROJECT NAME

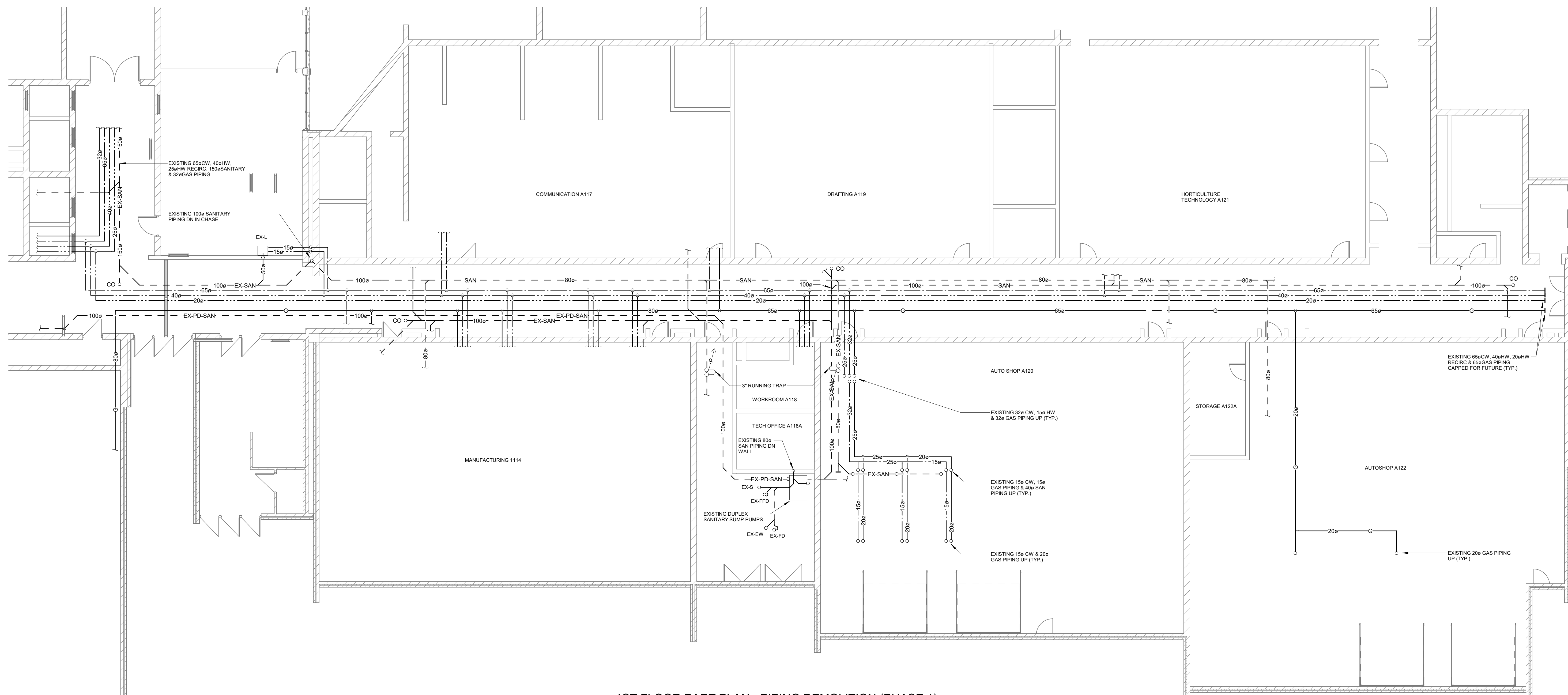
Glenview Park SS -
Science/Elevator Reno

55 McKay St. Cambridge, ON N1R 4G8

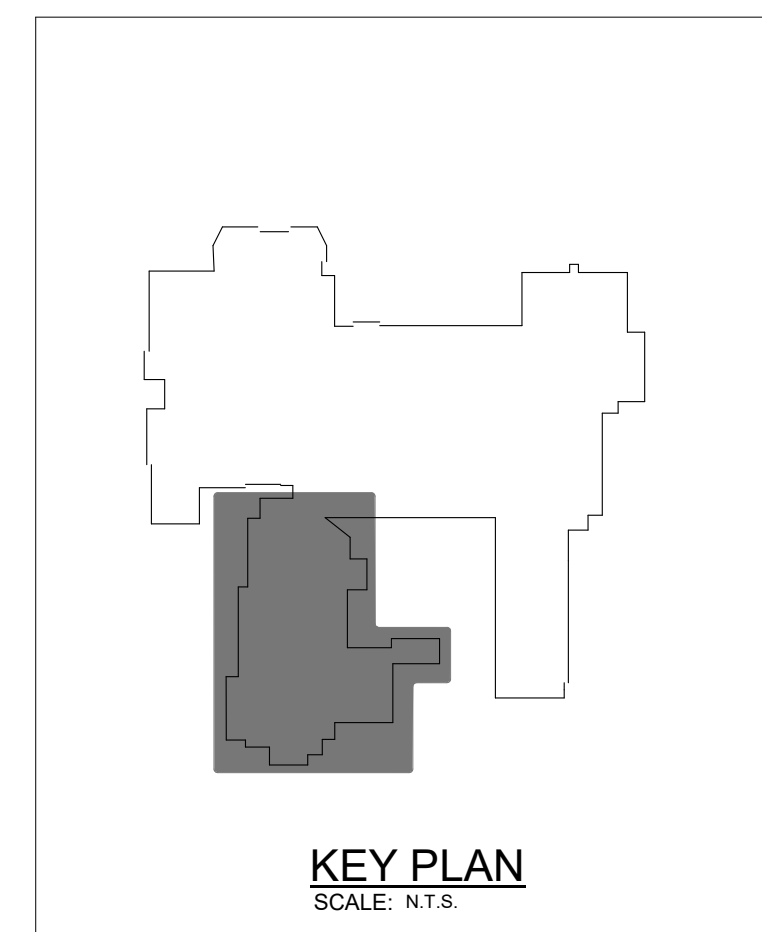
DRAWING TITLE

LEVEL 1 - PIPING
DEMOLITION (PHASE 1)

SCALE	DRAWING NUMBER
As Indicated	M3.1
SHEET SIZE	
24X36	
PROJECT NUMBER	
24162	



1ST FLOOR PART PLAN - PIPING DEMOLITION (PHASE 1)
SCALE: 1 : 100



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

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[illegible][illegible]

CLENT

The logo of the Waterloo Region District School Board is a circular emblem. It features a stylized sun with two dots for eyes and a triangular body, positioned above a stylized mountain range with three peaks. The words "WATERLOO REGION" are written in a semi-circle at the top, and "DISTRICT SCHOOL BOARD" is written in a semi-circle at the bottom, both in capital letters.

PROJECT NAME

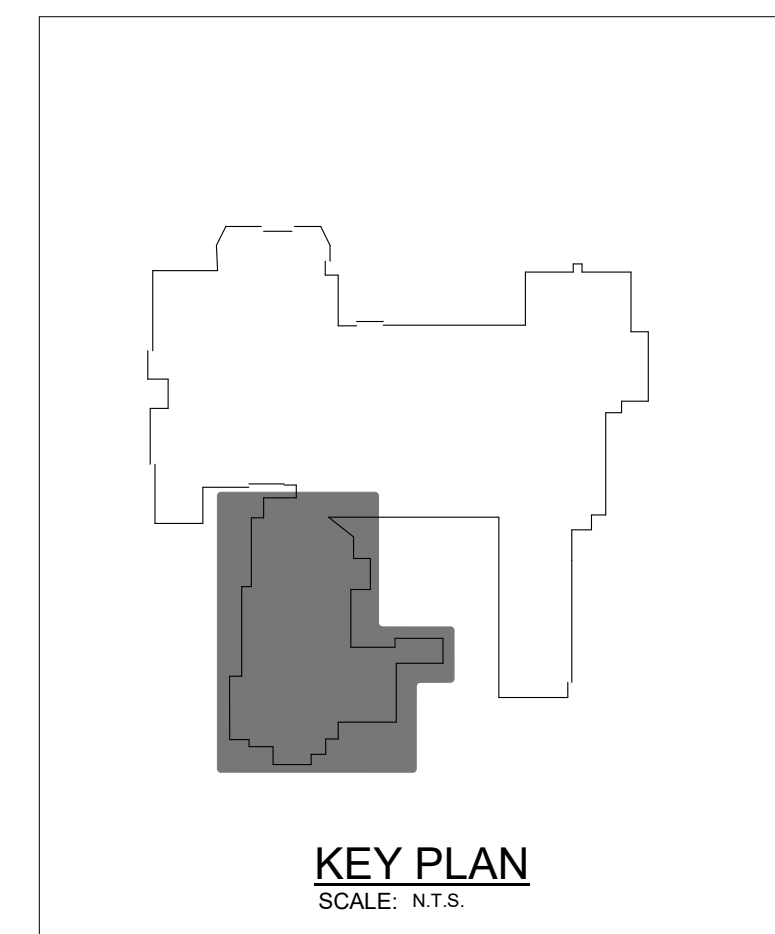
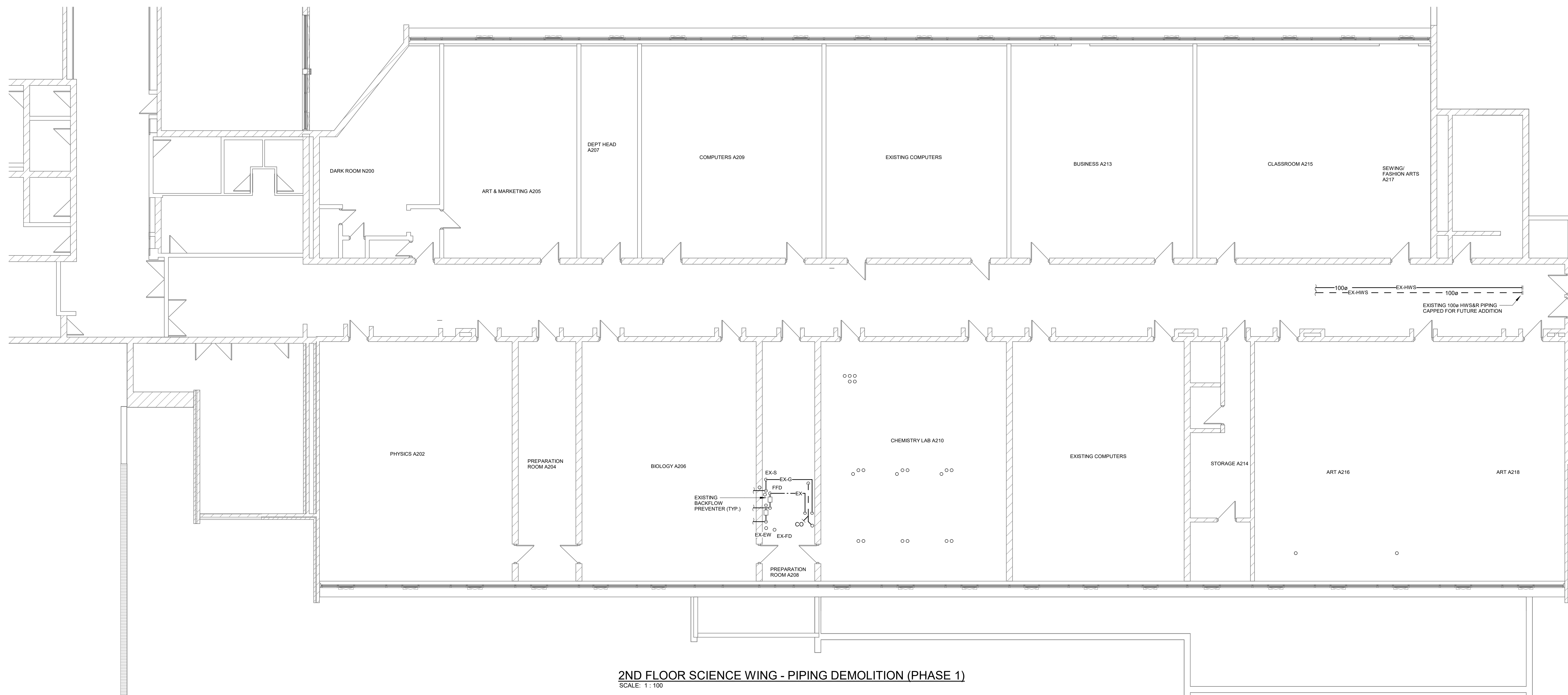
Glenview Park SS -
Science/Elevator Reno

55 McKay St, Cambridge, ON N1R 4G8

DRAWING TITLE

LEVEL 2 - SCIENCE
WING - PIPING
DEMOLITION (PHASE 1)

SCALE	DRAWING NUMBER
As indicated	
SHEET SIZE	
24X36	M3.2
PROJECT NUMBER	
24162	





**PROJECT
NORTH**

A circular professional seal for a Licensed Professional Engineer in the Province of Ontario. The seal contains the following text: "LICENSED PROFESSIONAL ENGINEER" around the top arc, "14 May 25" in the center, "M.B. WHITE" below the date, "100149074" below the name, and "PROVINCE OF ONTARIO" around the bottom arc. A signature is written across the bottom half of the seal.

DEI
55 Northland Road,
Waterloo, ON, N2V 1Y8
Phone: 519-745-3555
Website: deiasociates.ca
Project Number 21162

Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

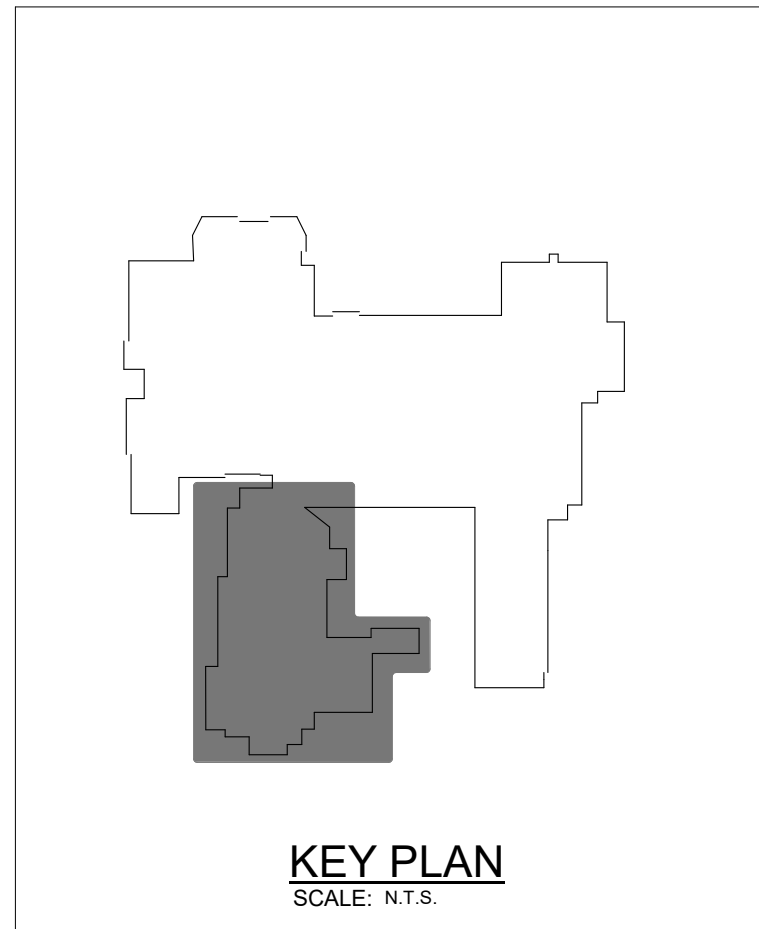
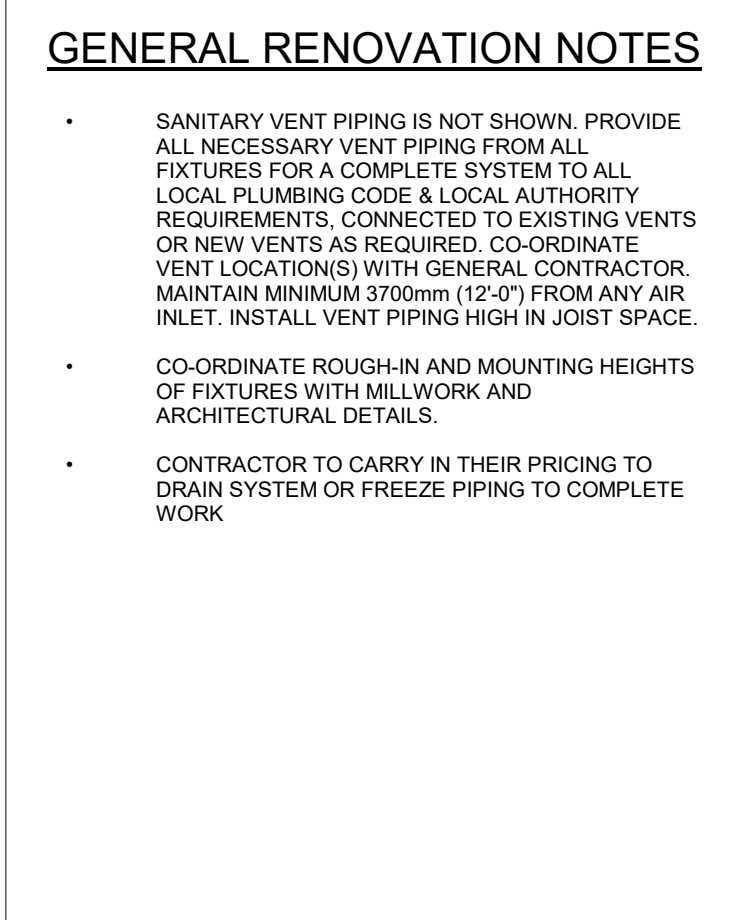
CUENT

The logo of the Waterloo Region District School Board is a circular emblem. It features a stylized sun with two dots for eyes and a wide, open mouth, appearing to smile. The sun is positioned behind a stylized mountain range with three peaks. The words "WATERLOO REGION" are written in a semi-circle along the top inner edge of the circle, and "DISTRICT SCHOOL BOARD" is written along the bottom inner edge.

Glenview Park SS -
Science/Elevator Renc
55 McKay St, Cambridge, ON N1R 4G8

LEVEL 1 - SCIENCE
WING - PIPING
RENOVATION(PHASE 1)

SCALE	DRAWING NUMBER
As indicated	
SHEET SIZE	
24X36	
PROJECT NUMBER	
24162	M3.3



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Do not scale this drawing.

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[illegible][illegible]

CLENT

The logo of the Waterloo Region District School Board is a circular emblem. It features a stylized sun with two rays and two human figures, one larger and one smaller, holding hands. The text "WATERLOO REGION" is arched across the top, and "DISTRICT SCHOOL BOARD" is arched across the bottom.

PROJECT NAME

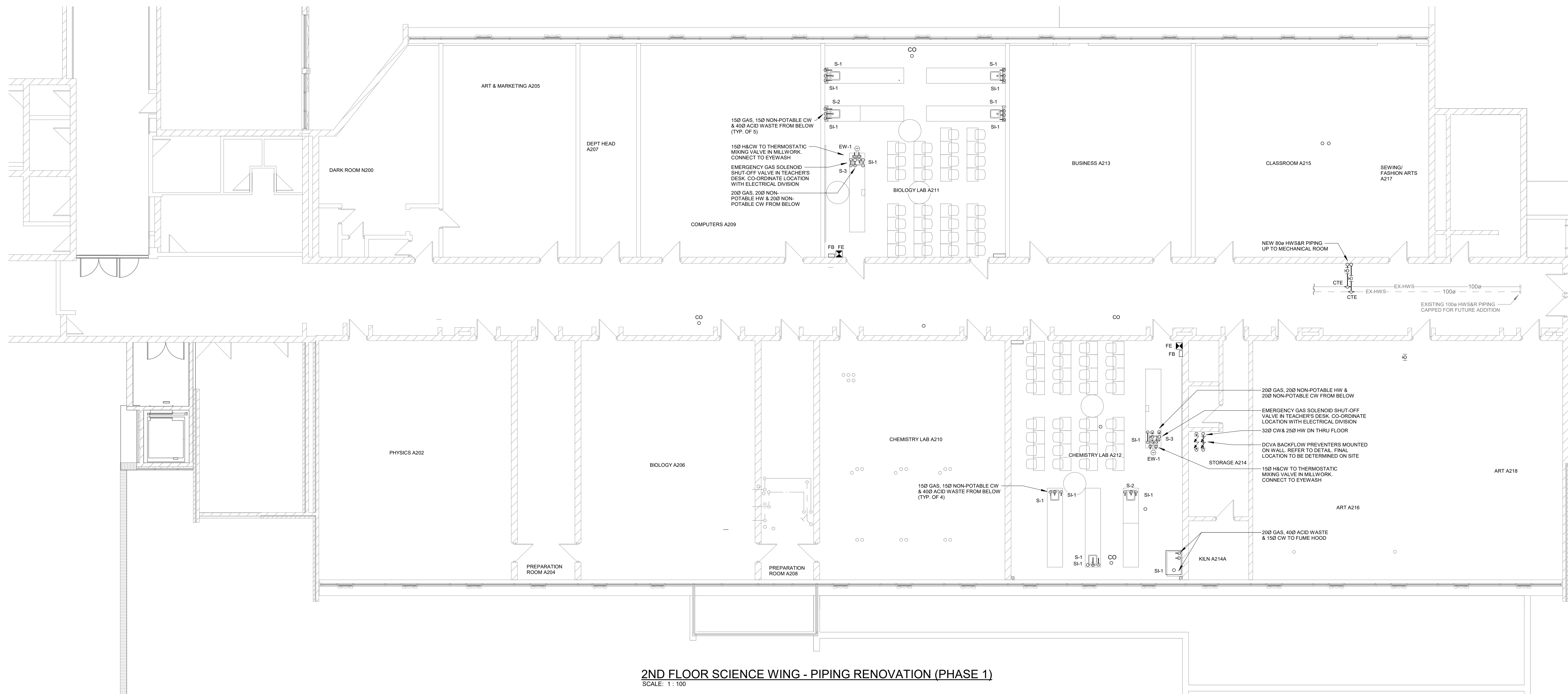
Glenview Park SS -
Science/Elevator Reno

55 McKay St, Cambridge, ON N1R 4G8

DRAWING TITLE

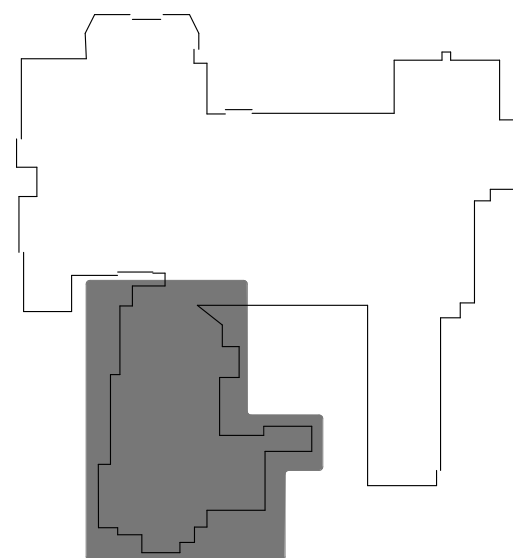
LEVEL 2 - SCIENCE
WING - PIPING
RENOVATION(PHASE 1)

SCALE	DRAWING NUMBER
As indicated	
SHEET SIZE	
24X36	M3.4
PROJECT NUMBER	
24162	



GENERAL RENOVATION NOTES

- 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 MINIMUM 3700mm (12'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK
- EXTEND CLEANOUTS UP THROUGH FLOOR (TYPICAL).



KEY PLAN
SCALE: N.T.S.

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

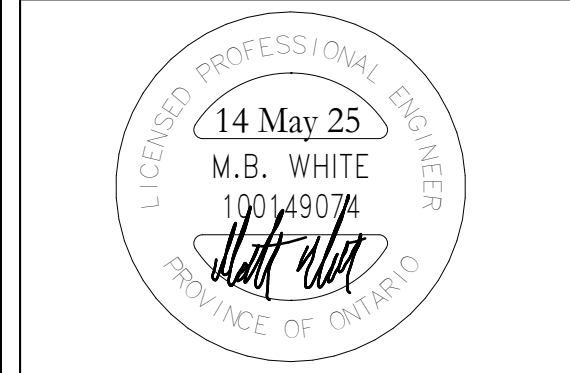
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Do not scale this drawing.

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[illegible][illegible]

CLIENT

The logo of the Waterloo Region District School Board is a circular emblem. It features a stylized sun or moon with a face at the top, and two large, dark, triangular shapes below it that resemble a stylized 'W' or two abstract figures. The text 'WATERLOO REGION' is written in a semi-circle at the top, and 'DISTRICT SCHOOL BOARD' is written in a semi-circle at the bottom.

PROJECT NAME

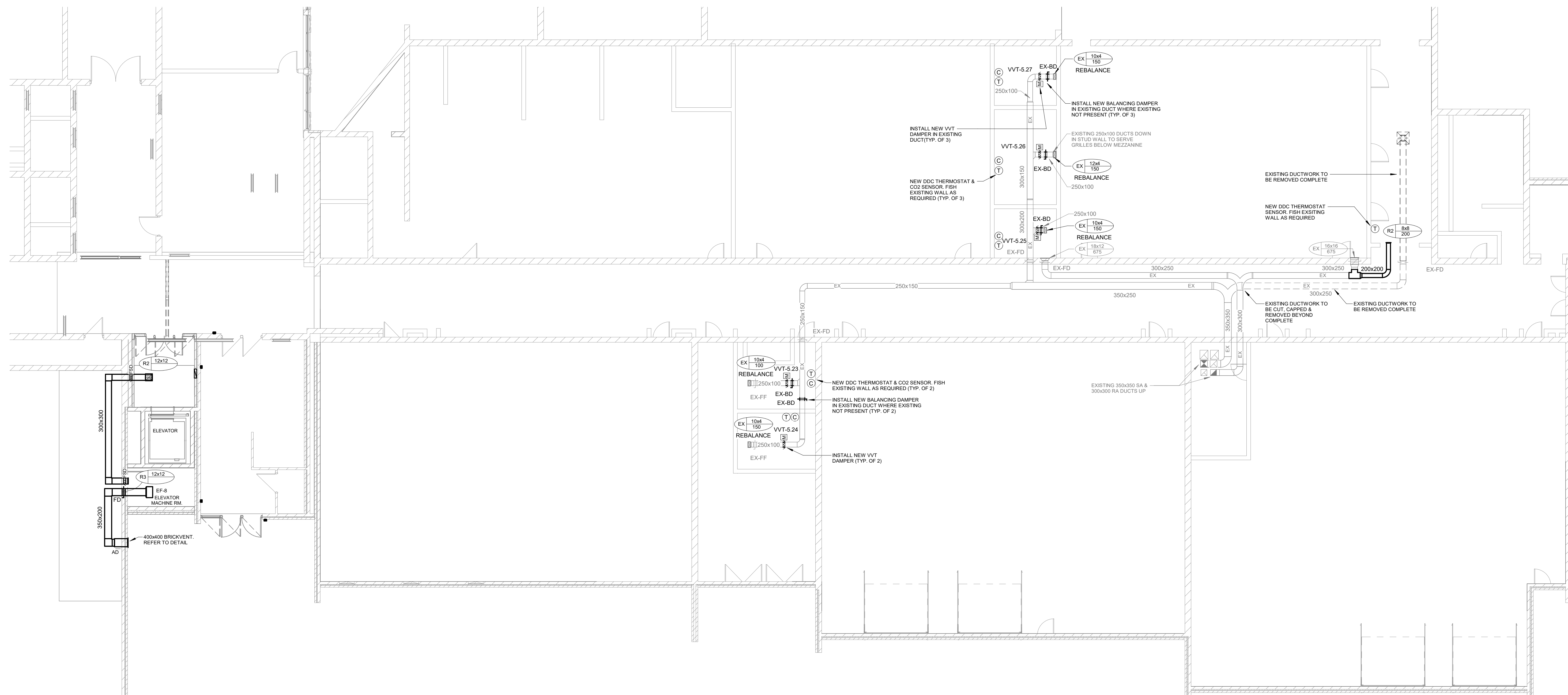
Glenview Park SS -
Science/Elevator Renovation

55 McKay St. Cambridge, ON N1R 4G8

DRAWING TITLE

**LEVEL 1 - SCIENCE
WING - VENTILATION
DEMOLITION &
RENOVATION
(PHASE 1)**

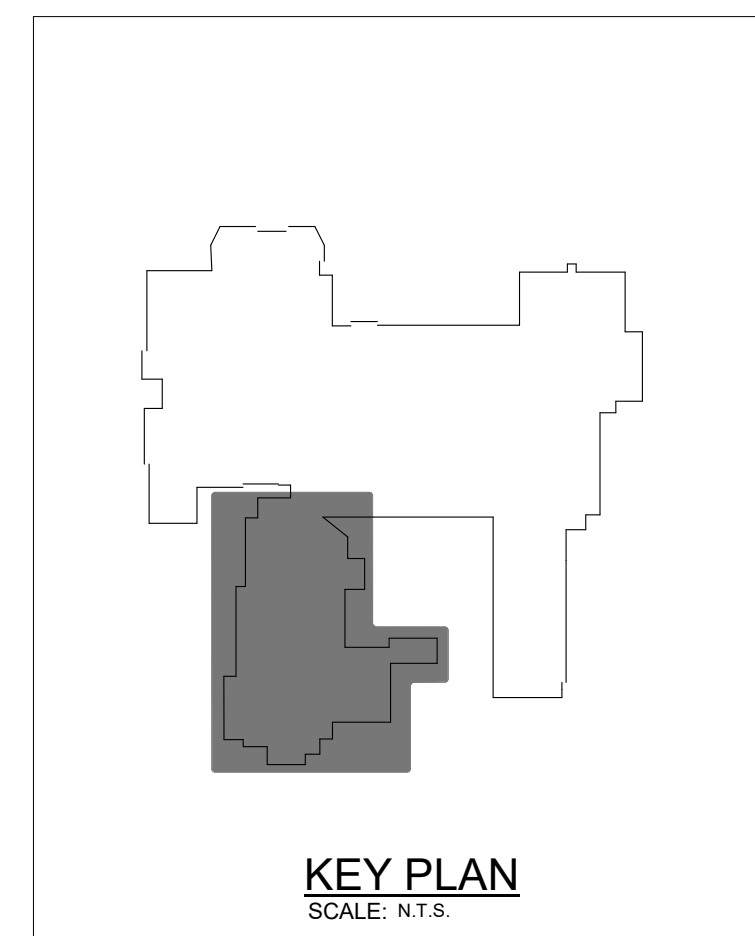
SCALE	DRAWING NUMBER
As indicated	
SHEET SIZE	
24X36	M4.1
PROJECT NUMBER	
24162	



1ST FLOOR PART PLAN - VENTILATION DEMOLITION & RENOVATION (PHASE 1)

GENERAL RENOVATION NOTES

- CO-ORDINATE LOCATIONS OF GRILLES/DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLANS. FINAL LOCATION TO BE DETERMINED ON SITE. CONTRACTOR TO NOTIFY CONSULTANT OF ANY DISCREPANCIES PRIOR TO INSTALLATION. FAILURE TO DO SO WILL RESULT IN RELOCATION COSTS BORNE BY THIS CONTRACTOR.



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

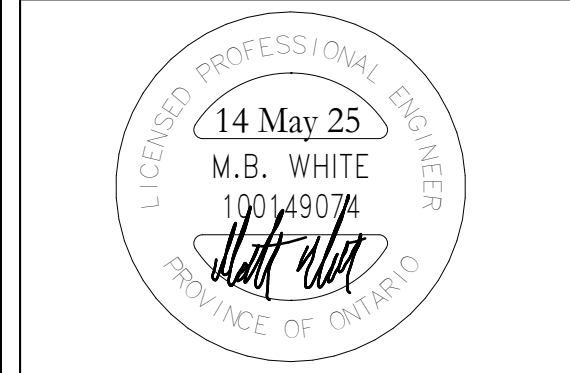
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

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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[illegible][illegible]

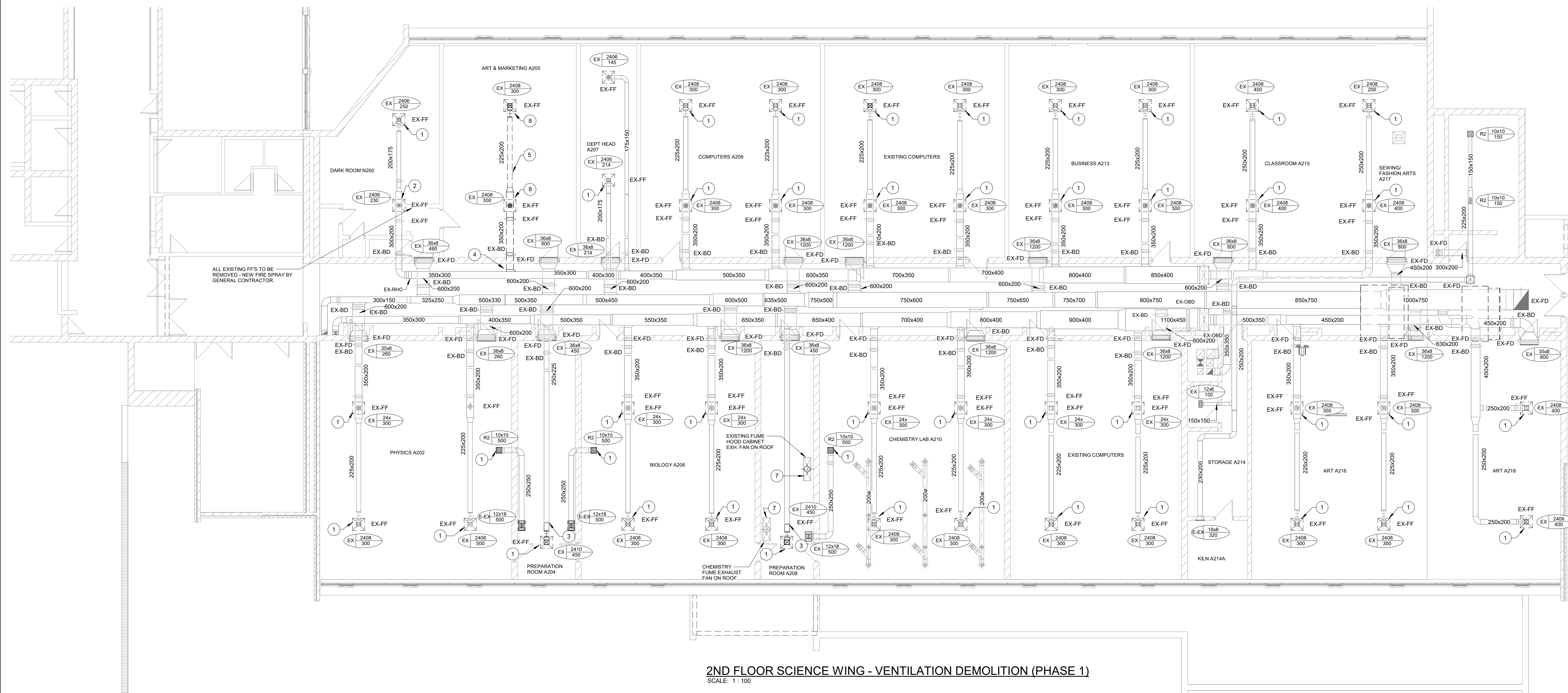
PROJECT NAME

Glenview Park SS -
Science/Elevator Renc
55 McKay St, Cambridge, ON N1R 4G8

DRAWING TITLE

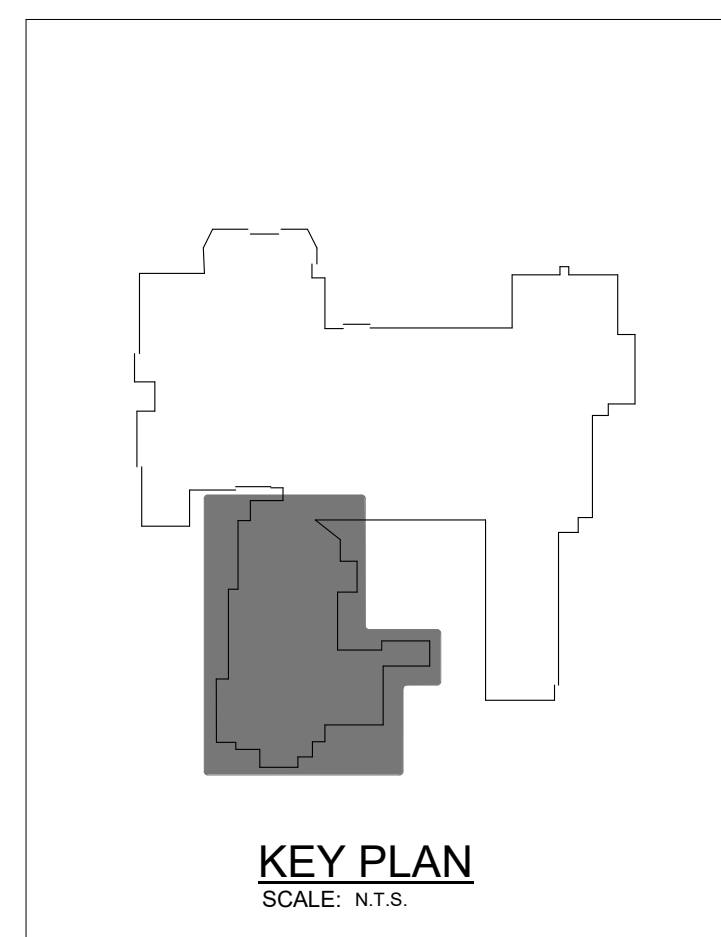
LEVEL 2 - SCIENCE
WING - VENTILATION
DEMOLITION (PHASE 1)

SCALE	DRAWING NUMBER
As indicated	
SHEET SIZE	
24X36	
PROJECT NUMBER	
24162	M4.2



2ND FLOOR SCIENCE WING - VENTILATION DEMOLITION (PHASE 1)

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 RELOCATED 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.
- REMOVE IN PNEUMATIC TUBING TO BE REMOVED FROM THE REMOVED COMPLETELY, AND RETURN AIRING/TUBING BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE REMOVED IS STRIPPED, RECONCEALED LOCATION, PROVIDE NEW DDC THERMOSTAT.

SPECIFIC DEMOLITION NOTES

1. EXISTING DIFFUSER/GRILLE TO BE REMOVED COMPLETE & REPLACED WITH NEW. EXISTING FIRE FLAP & FIRE BLANKET TO BE REMOVED COMPLETE.
2. EXISTING DIFFUSER/GRILLE TO BE REMOVED COMPLETE. EXISTING DUCTWORK TO BE CUT & CAPPED AT BRANCH MAIN AND REMOVED BEYOND COMPLETE.
3. EXISTING DUCTWORK TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE.
4. EXISTING DUCTWORK TO BE CUT AND REMOVED BEYOND COMPLETE.
5. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
6. EXISTING DIFFUSER/GRILLE TO BE REMOVED COMPLETE.
7. EXISTING DUCTWORK TO BE TEMPORARILY REMOVED TO ACCOMMODATE NEW CEILING WORK. RE-INSTALL SAME.
8. EXISTING DIFFUSER GRILLE TO BE REMOVED COMPLETE.



**PROJECT
NORTH**

A circular professional seal for a Licensed Professional Engineer in the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. The center of the seal contains the following information: the date "14 May 25", the name "M.B. WHITE", the license number "100149074", and a handwritten signature.



DEI
Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

55 Northland Road,
Waterloo, ON, N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24162



PROJECT NAME

DRAWING TITLE

SCALE

As indicated

SHEET SIZE

PROJECT NUMBER

PROJECT NUMBER	24162
----------------	-------

DRAWING NUMBER

M4.3



- A. INSTALL NEW BALANCING DAMPER IN EXISTING DUCT WHERE EXISTING BRANCH BOILER IS NOT PRESENT (TYP. OF 4)
- B. INSTALL NEW BALANCING DAMPER IN EXISTING DUCT WHERE EXISTING BRANCH BOILER IS NOT PRESENT (TYP. OF 6)
- C. INSTALL NEW BALANCING DAMPER IN EXISTING DUCT WHERE EXISTING BRANCH BOILER IS NOT PRESENT (TYP. OF 2)
- D. NEW DDC THERMOSTAT & CO2 SENSOR. INSTALL IN EXISTING/ NEW CLASSROOM CONTROL PANEL. FISH EXISTING WALL FOR NEW CONTROL WIRING.

SCALE: 1 : 100

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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[illegible][illegible]

CLIENT

The logo of the Waterloo Region District School Board is a circular emblem. It features a stylized sun with two dots for eyes and a wide, open mouth, set against a background of wavy lines representing water. The words "WATERLOO REGION" are written in a semi-circle at the top, and "DISTRICT SCHOOL BOARD" is written in a semi-circle at the bottom, both in a sans-serif font.

PROJECT NAME

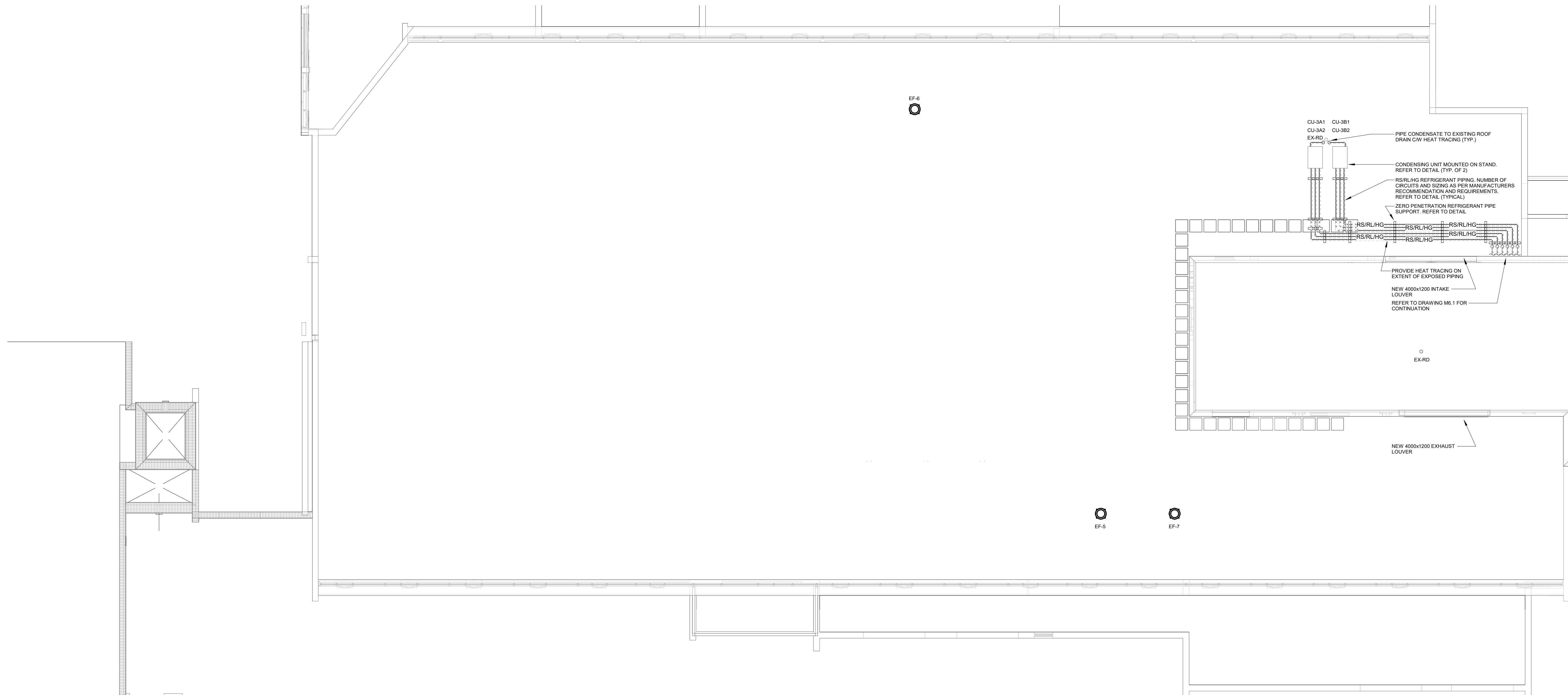
Glenview Park SS -
Science/Elevator Renovation

55 McKay St, Cambridge, ON N1R 4G8

DRAWING TITLE

ROOF PART PLAN -
RENOVATION
(PHASE 1)

SCALE 1 : 100	DRAWING NUMBER M5.1
SHEET SIZE 24X36	
PROJECT NUMBER 24162	



ROOF PART PLAN - RENOVATION (PHASE 1)
SCALE: 1 : 100

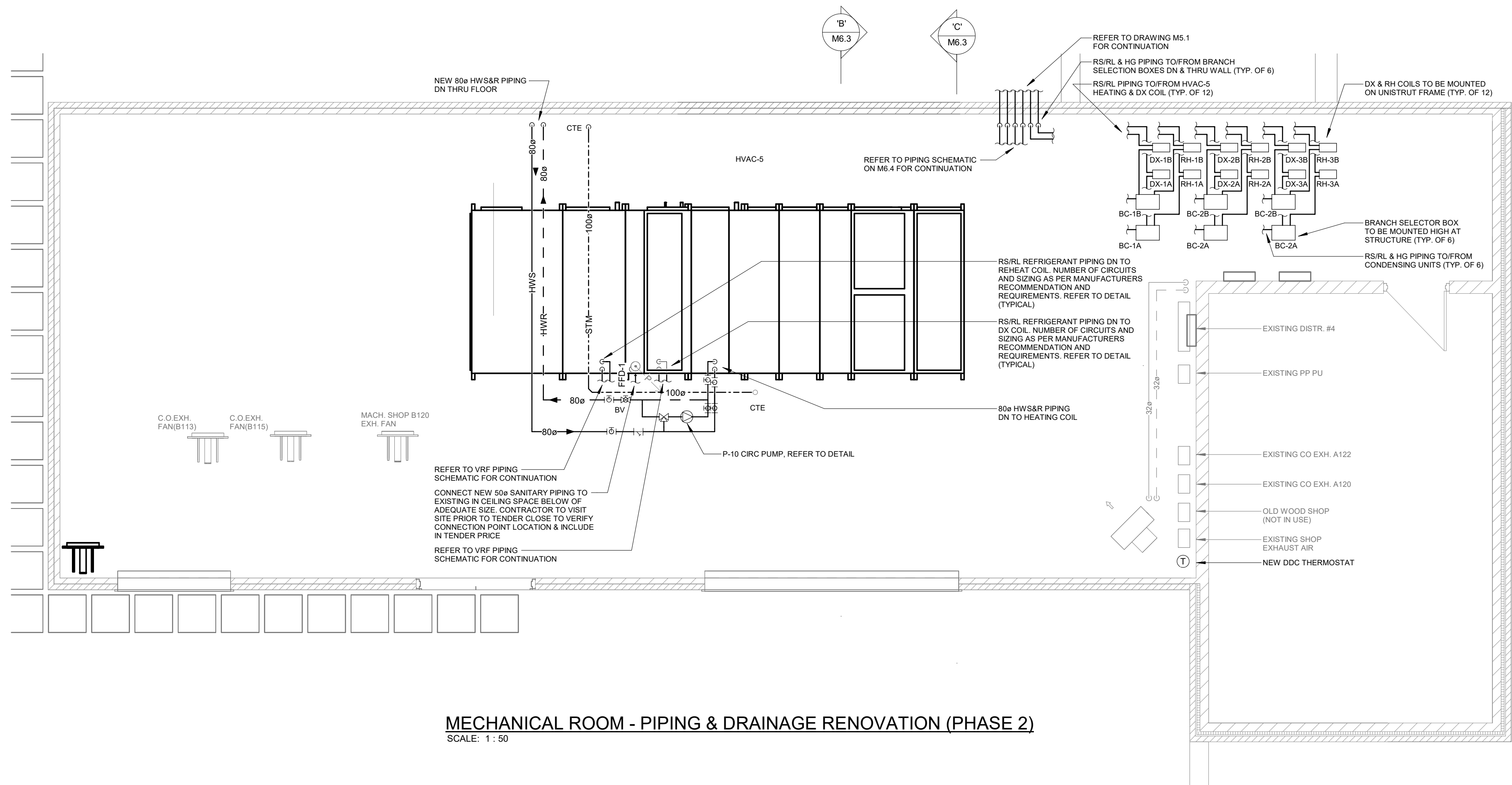
GENERAL NOTES

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

- 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 SERVICES 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 SERVICE 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.

1. EXISTING DUCTWORK TO BE CUT AND REMOVED BEYOND COMPLETE.
2. EXISTING FAN/UNIT TO BE REMOVED COMPLETE.
3. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
4. EXISTING BLOCK WALL (BELOW LOUVER) TO BE TEMPORARILY REMOVED TO ACCOMMODATE INSTALLATION OF NEW INTAKE INTO ROOM. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF BLOCK WALL REMOVAL.
5. EXISTING LOUVER TO BE REMOVED COMPLETE.
6. EXISTING PNEUMATIC MOTORIZED DAMPER ACTUATOR TO BE REMOVED COMPLETE. EXISTING COMPRESSED AIR TUBING/CONTROL TO BE REMOVED COMPLETE/ BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION.
7. EXISTING PNEUMATIC MOTORIZED DAMPER TO BE REMOVED COMPLETE. EXISTING COMPRESSED AIR TUBING/CONTROL TO BE REMOVED COMPLETE/ BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION.

KEY PLAN
SCALE: N.T.S.



A circular professional engineer seal for the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. The center of the seal contains the following information: the date "14 May 25", the name "M.B. WHITE", the license number "100149074", and a handwritten signature.

CHRONOLOGY	DATE

The logo of the Waterloo Region District School Board is a circular emblem. It features a stylized sun with two dots for eyes and a large 'W' shape below it. The text 'WATERLOO REGION' is curved along the top inner edge, and 'DISTRICT SCHOOL BOARD' is curved along the bottom inner edge.

PROJECT NAME

Glenview Park SS -
Science/Elevator Reno

55 McKay St, Cambridge, ON N1R 4G8

DRAWING TITLE

MECH ROOM - PIPING
& DRAINAGE
DEMO/RENO(PHASE 2)

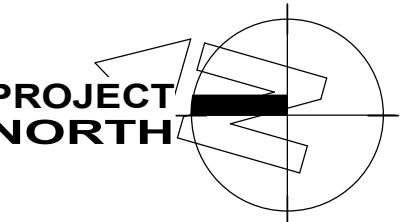
SCALE	DRAWING NUMBER
As indicated	
SHEET SIZE	
24X36	M6.1
PROJECT NUMBER	
24162	

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING TO BE REMOVED OR REPLACED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUE THE 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.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING EQUIPMENT.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.
- REMOVE PNEUMATIC THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REMOVE WIRING/TUBING BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE RE-TERMINATED AT CONCEALED LOCATION. PROVIDE NEW DDC THERMOSTAT.

1. EXISTING DUCTWORK TO BE CUT AND REMOVED BEYOND COMPLETE.
2. EXISTING FAN/UNIT TO BE REMOVED COMPLETE.
3. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
4. EXISTING BLOCK WALL (BELOW LOUVER) TO BE TEMPORARILY REMOVED TO ACCOMMODATE INSTALLATION OF NEW UNIT INTO ROOM. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF BLOCK WALL REMOVAL.
5. EXISTING LOUVER TO BE REMOVED COMPLETE.
6. EXISTING PNEUMATIC MOTORIZED DAMPER ACTUATOR TO BE REMOVED COMPLETE. EXISTING COMPRESSED AIR TUBING/ CONTROL TO BE REMOVED COMPLETE/ BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION.
7. EXISTING PNEUMATIC MOTORIZED DAMPER TO BE REMOVED COMPLETE. EXISTING COMPRESSED AIR TUBING/ CONTROL TO BE REMOVED COMPLETE/ BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION.
8. EXISTING OBSOLETE EXHAUST FAN TO BE REMOVED COMPLETE AND STAGED ON SITE IN MECH ROOM FOR FUTURE USE BY OWNER.
9. EXISTING DUCTWORK TO BE CUT AT LOUVER/PLENUM AND REMOVED BEYOND COMPLETE.
10. EXISTING DUCT TO BE REMOVED COMPLETE. CAP IN CEILING SPACE BELOW. COORDINATE FAN OPENING INFILL WITH GENERAL CONTRACTOR.

- A. NEW DDC MOTORIZED DAMPER ACTUATOR.
PROVIDE NEW CONTROL WIRING.
- B. NEW MOTORIZED DAMPER & DDC ACTUATOR

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



14 May 25
M.B. WHITE
100149074
PROVINCE OF ONTARIO

CHRONOLOGY	DATE



DRAWING TITLE

MECH ROOM -
VENTILATION
DEMO/RENO (PHASE 2)

SCALE	DRAWING NUMBER
As indicated	
SHEET SIZE	
24X36	M6.2
PROJECT NUMBER	
24162	

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

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Do not scale this drawing.

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[illegible][illegible]

CLENT

The logo of the Waterloo Region District School Board is a circular emblem. It features a stylized sun with two dots for eyes and a triangular body, positioned above a stylized mountain range with three peaks. The words "WATERLOO REGION" are written in a semi-circle at the top, and "DISTRICT SCHOOL BOARD" is written in a semi-circle at the bottom, both in capital letters.

PROJECT NAME

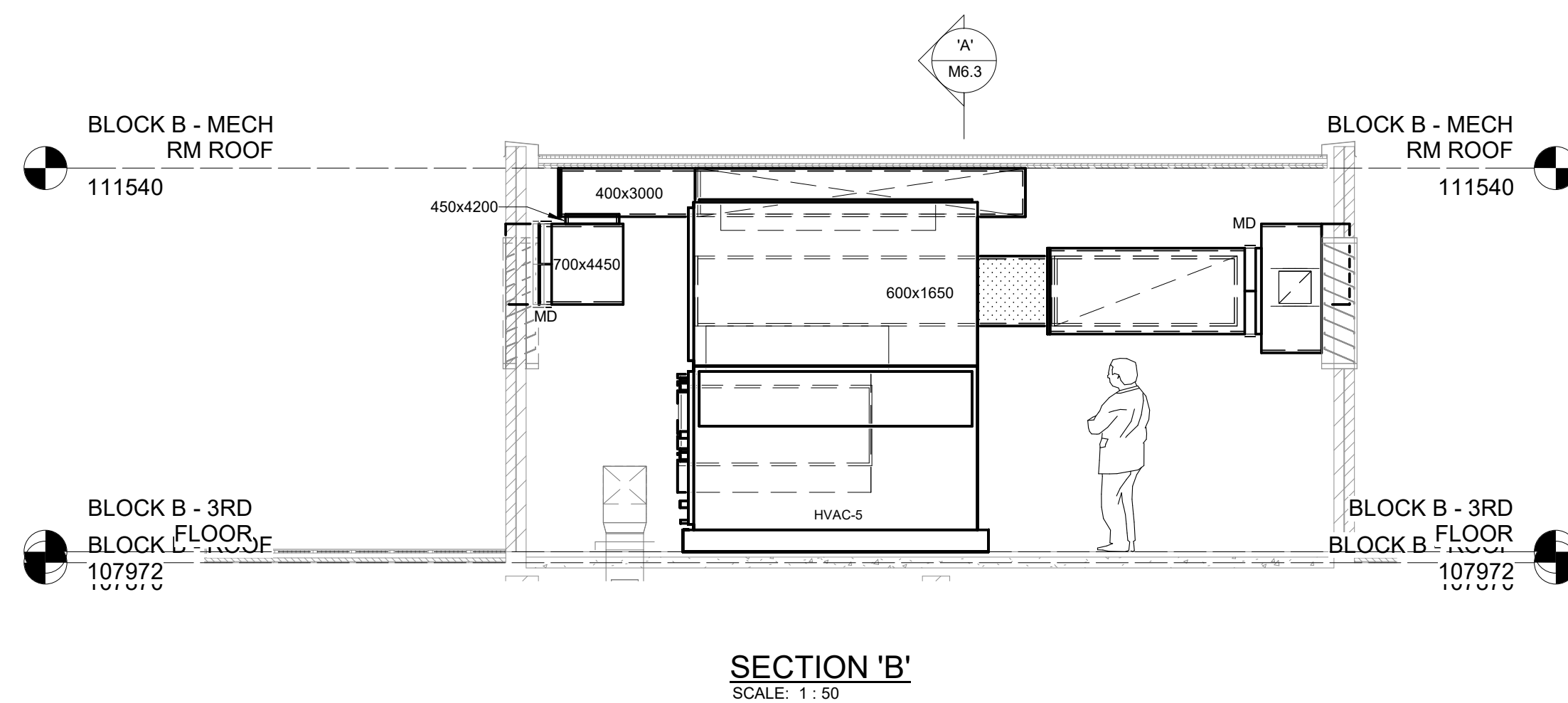
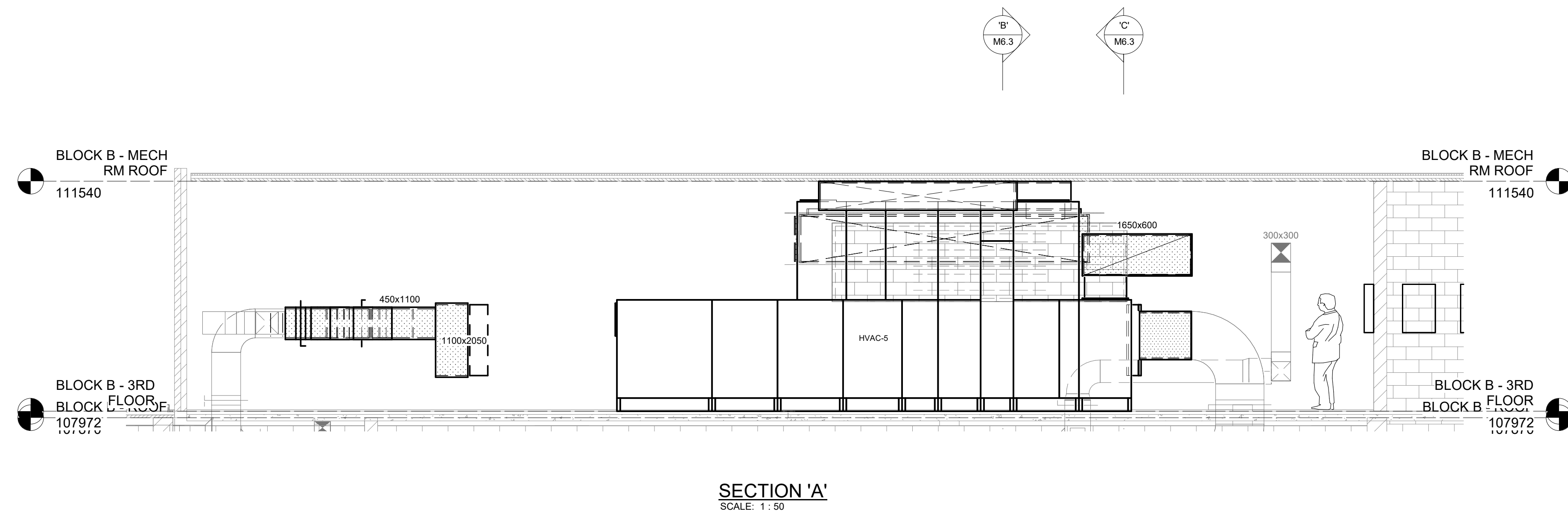
Glenview Park SS -
Science/Elevator Reno

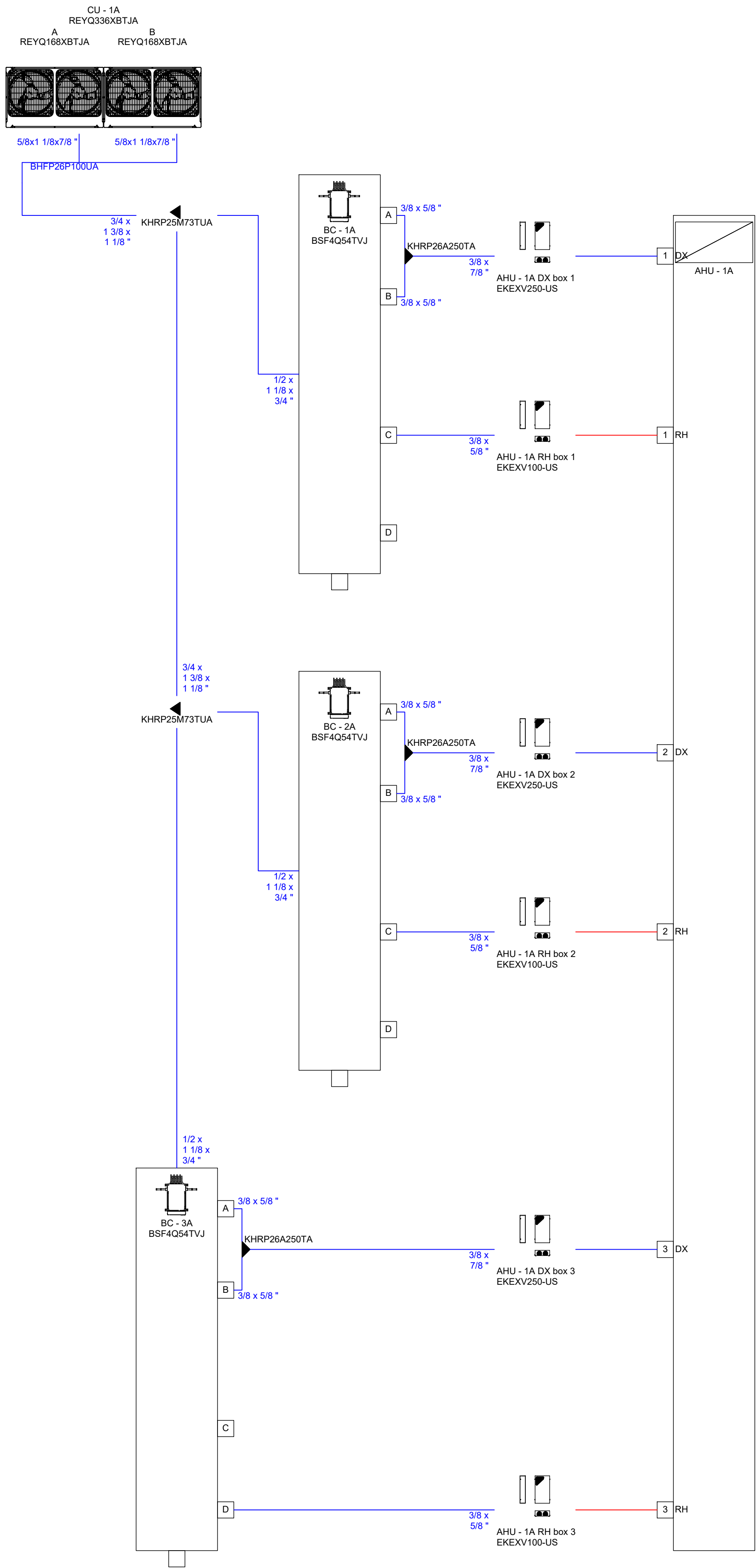
55 McKay St, Cambridge, ON N1R 4G8

DRAWING TITLE

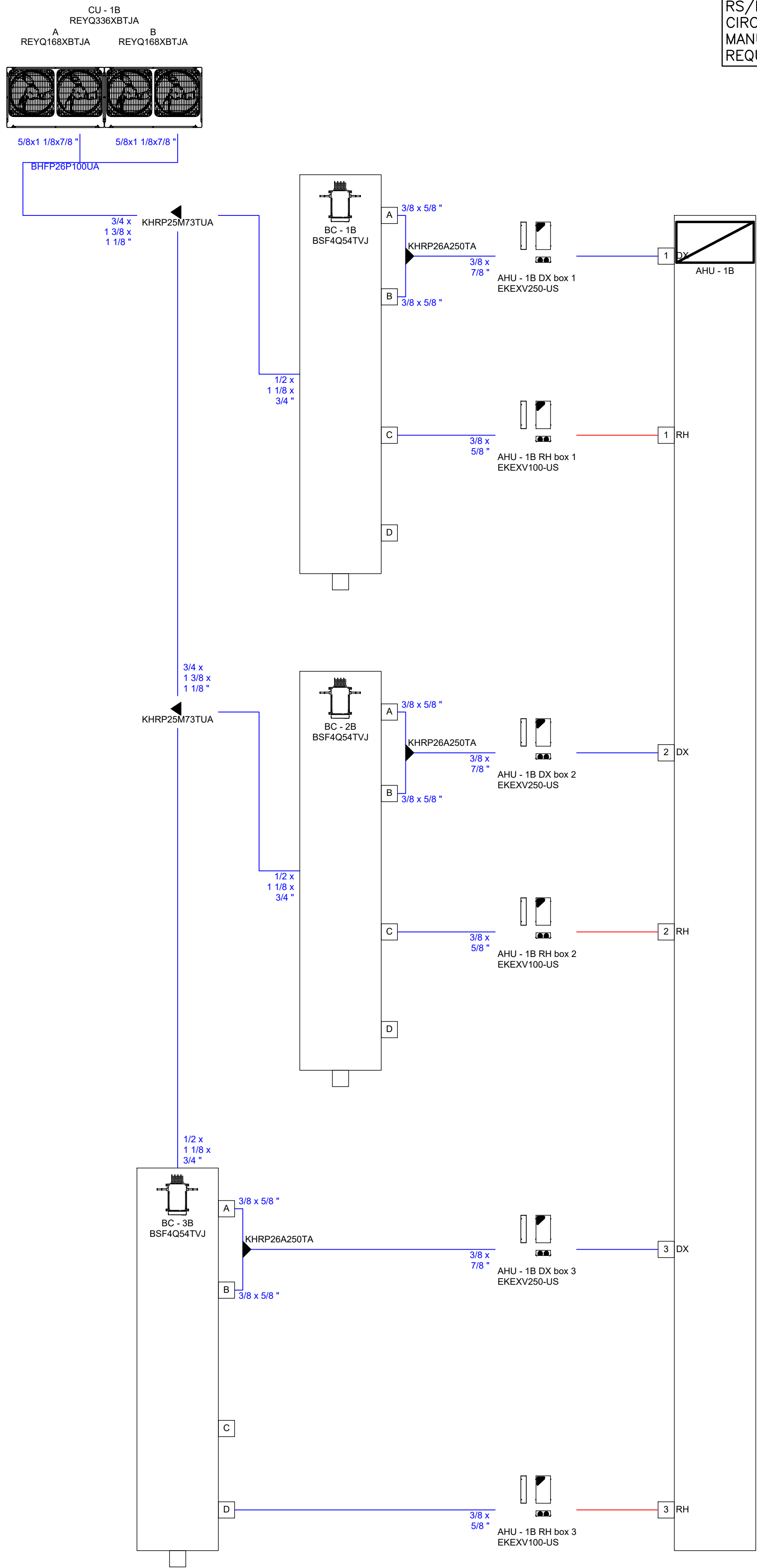
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SCALE	DRAWING NUMBER
1 : 50	
SHEET SIZE	
24X36	M6.3
PROJECT NUMBER	
24162	





CU-1A PIPING SCHEMATIC

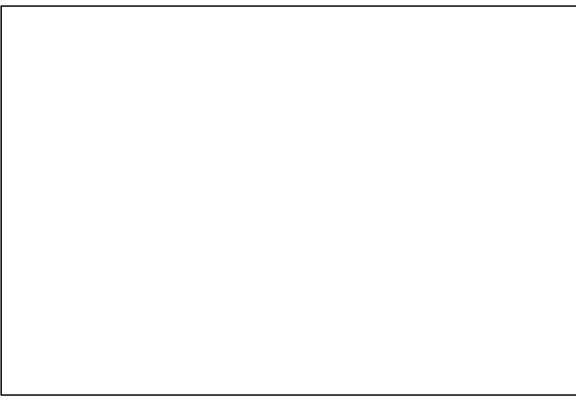


CU-1B PIPING SCHEMATIC

NOTE:
RS/RL REFRIGERANT PIPING. NUMBER OF
CIRCUITS AND SIZING AS PER
MANUFACTURERS RECOMMENDATION AND
REQUIREMENTS. REFER TO DETAIL

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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No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT & TENDER	2025.03.05
3	ISSUED FOR CONSTRUCTION	2025.05.14



CHRONOLOGY	DATE



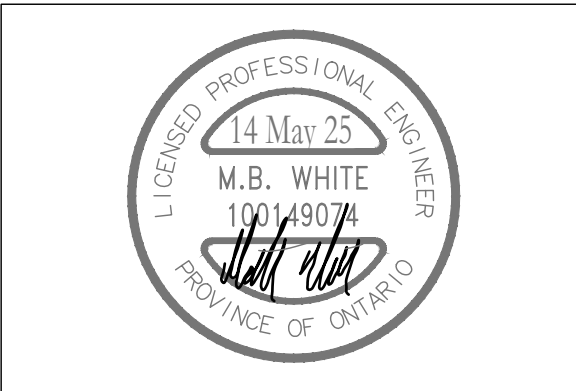
PROJECT NAME
**GLENVIEW PARK
SECONDARY SCHOOL**
55 McKay Street Cambridge, Ontario

DRAWING TITLE
**VRV/ VRF PIPING
SCHEMATICS**

SCALE AS NOTED	DRAWING NUMBER M6.4
SHEET SIZE 24x36	
PROJECT NUMBER	

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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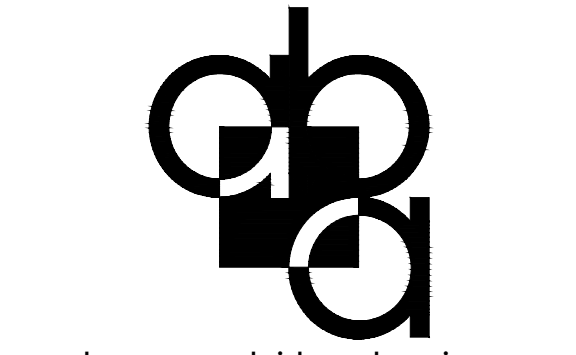
No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT & TENDER	2025.03.05
3	ISSUED FOR CONSTRUCTION	2025.05.14



CHRONOLOGY	DATE

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Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

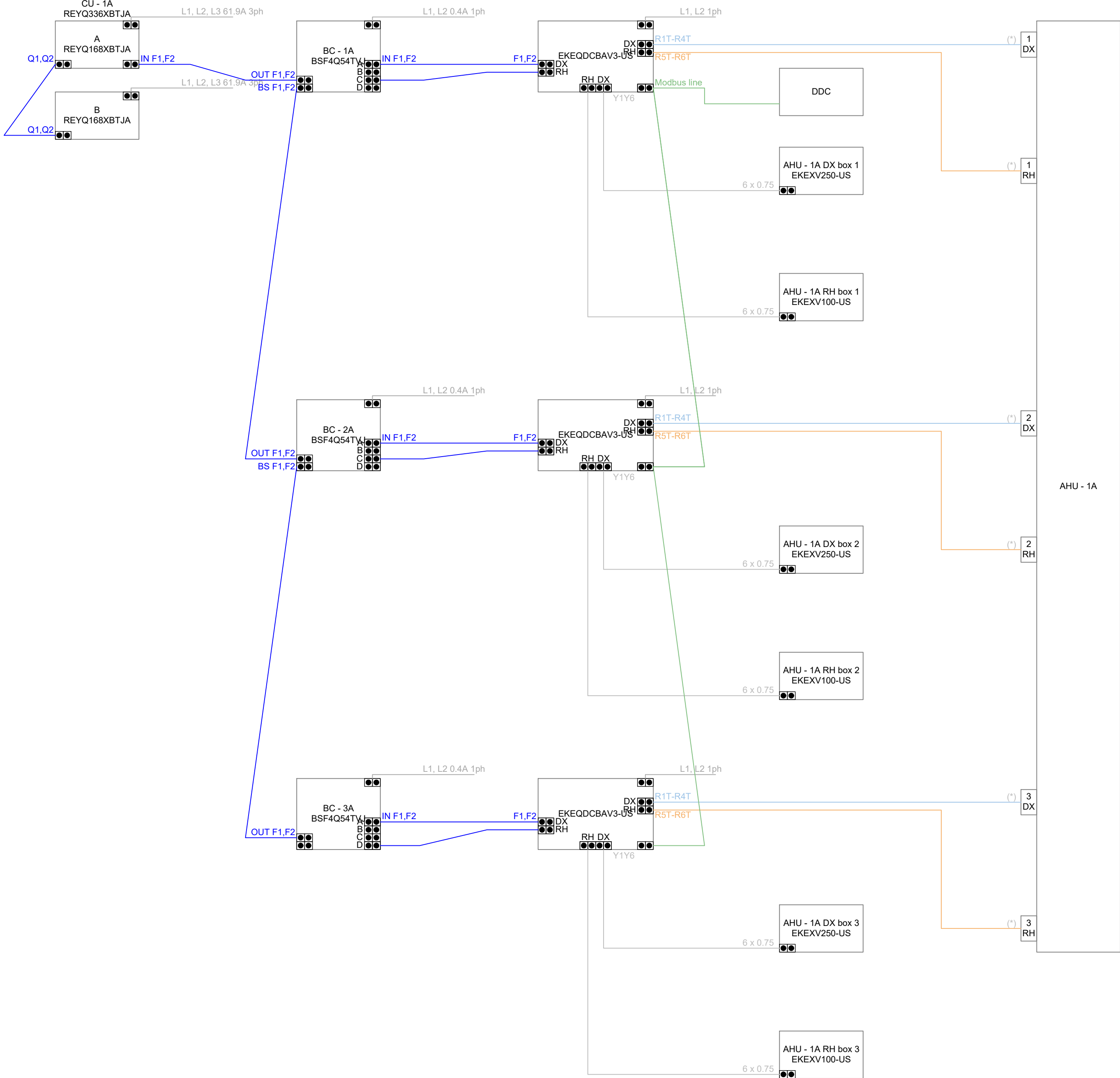
55 Northland Road,
Waterloo, ON, N2V 1Y8
Phone: 519-735-3555
Website: deiassociates.ca
Project Number: 24162



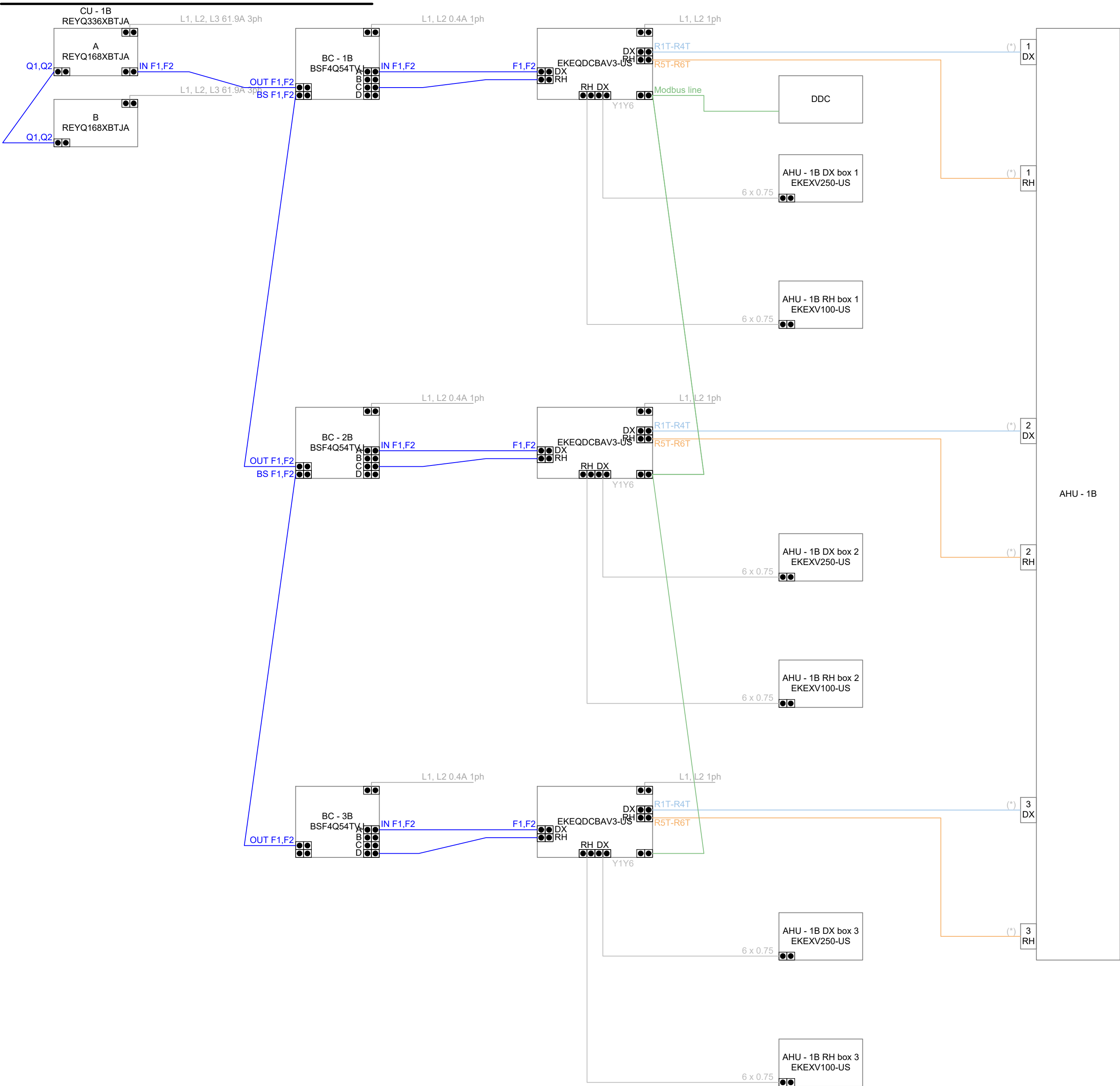
PROJECT NAME
**GLENVIEW PARK
SECONDARY SCHOOL**
55 McKay Street Cambridge, Ontario

DRAWING TITLE
**VRV/ VRF WIRING
SCHEMATICS**

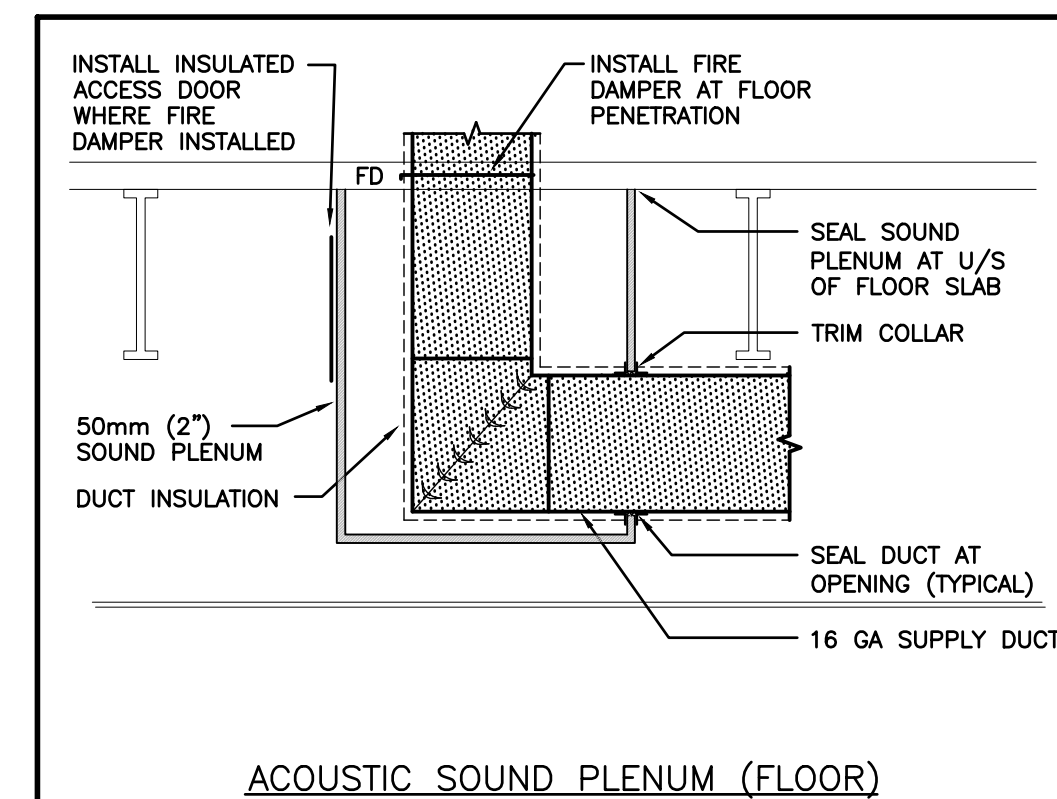
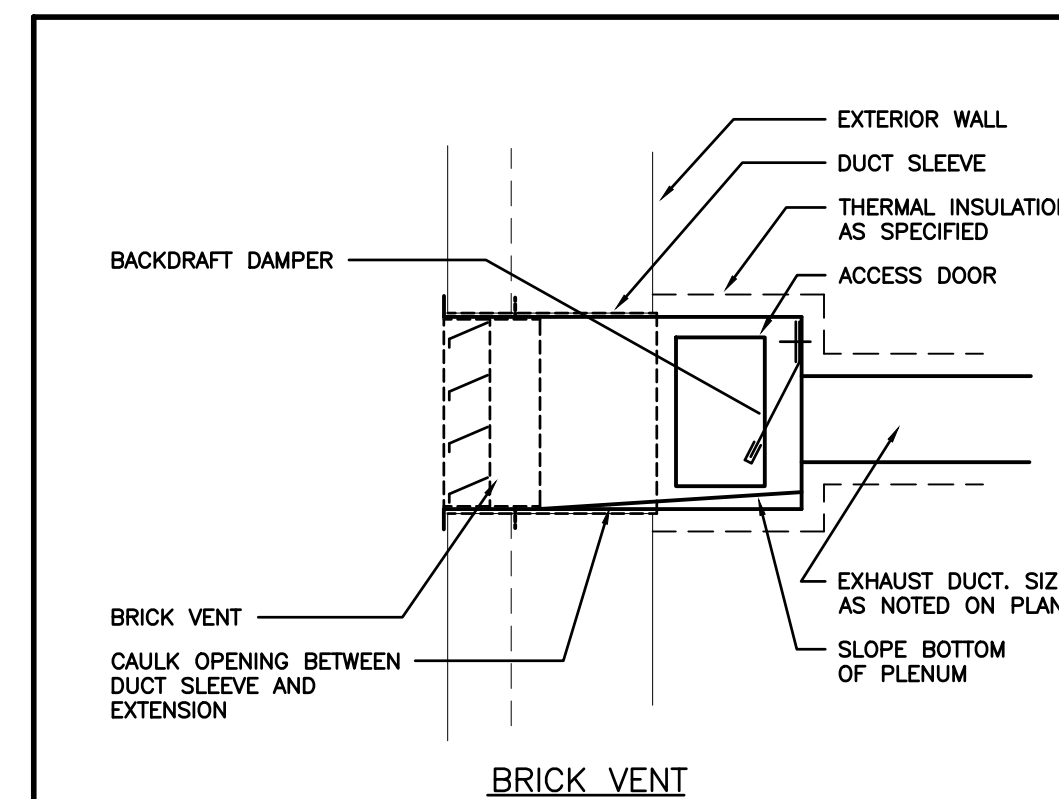
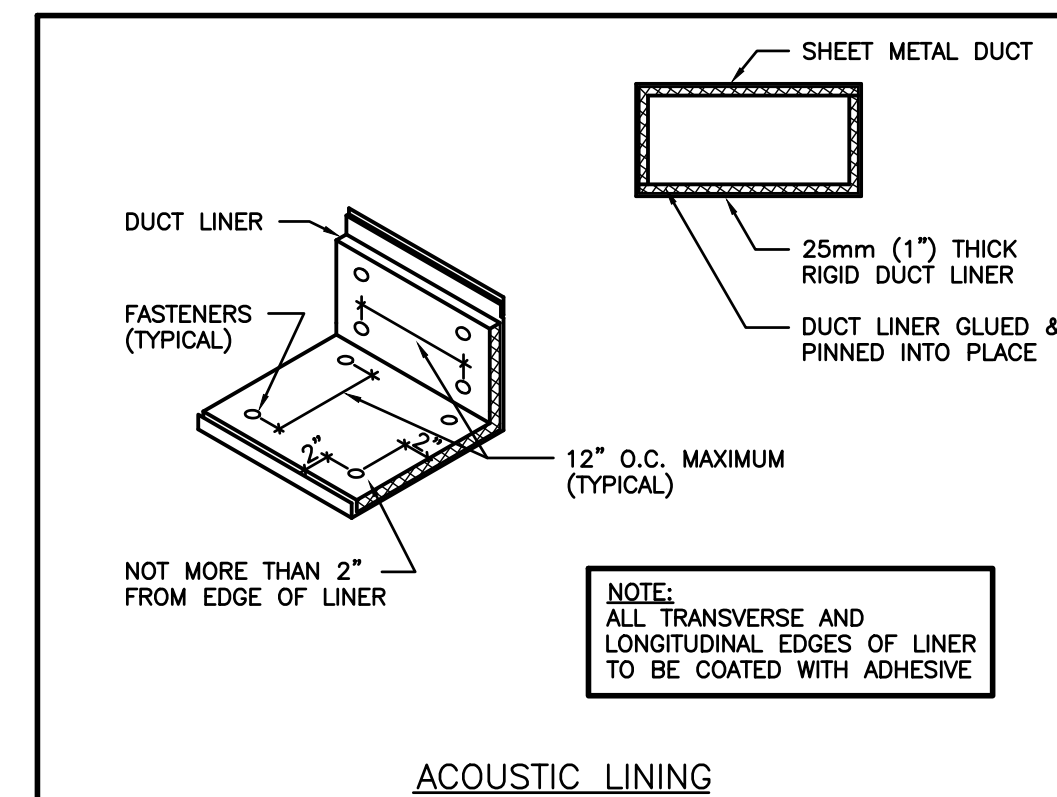
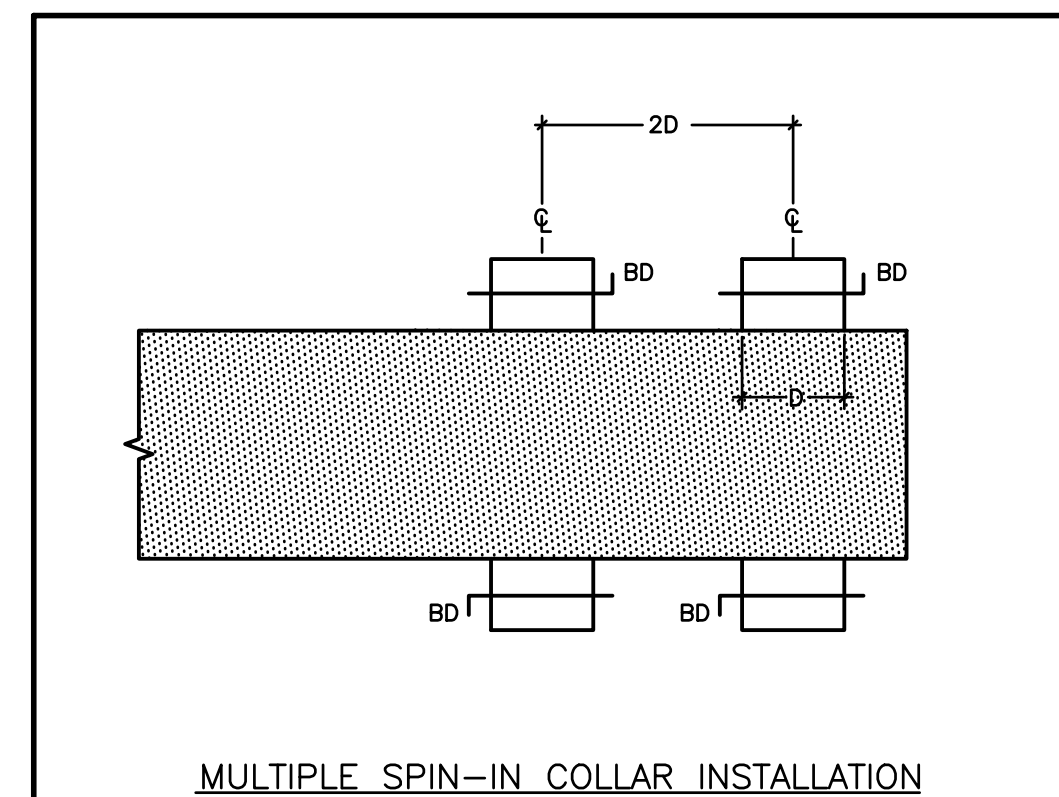
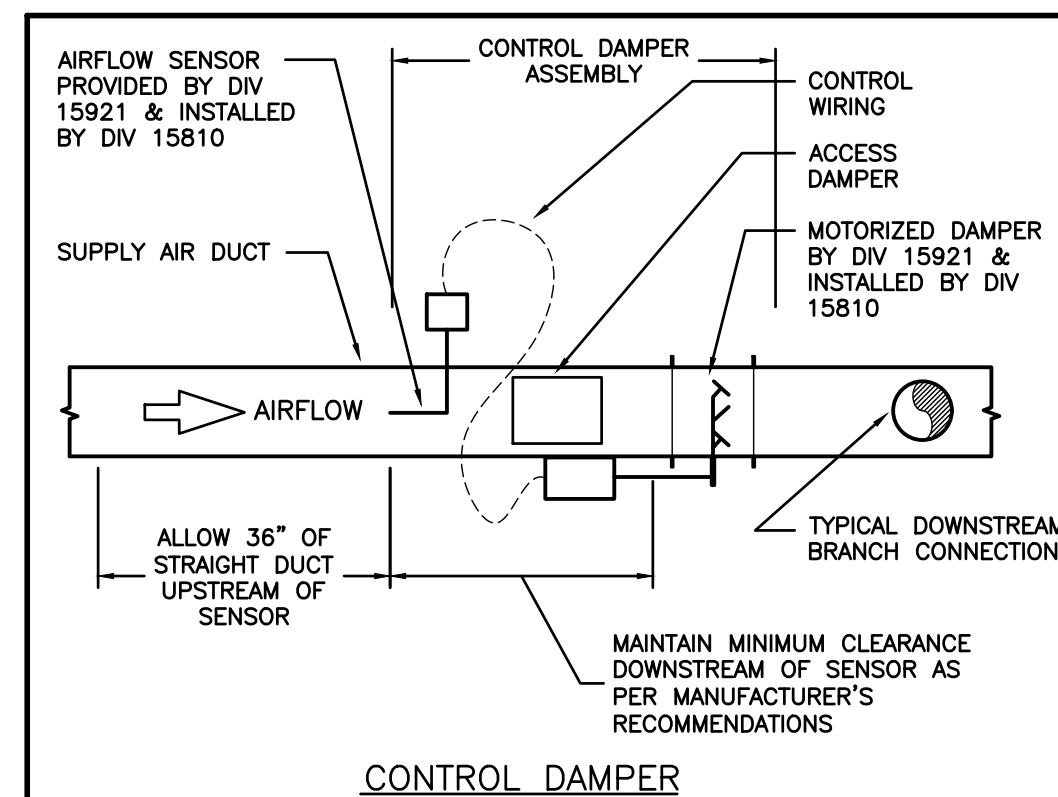
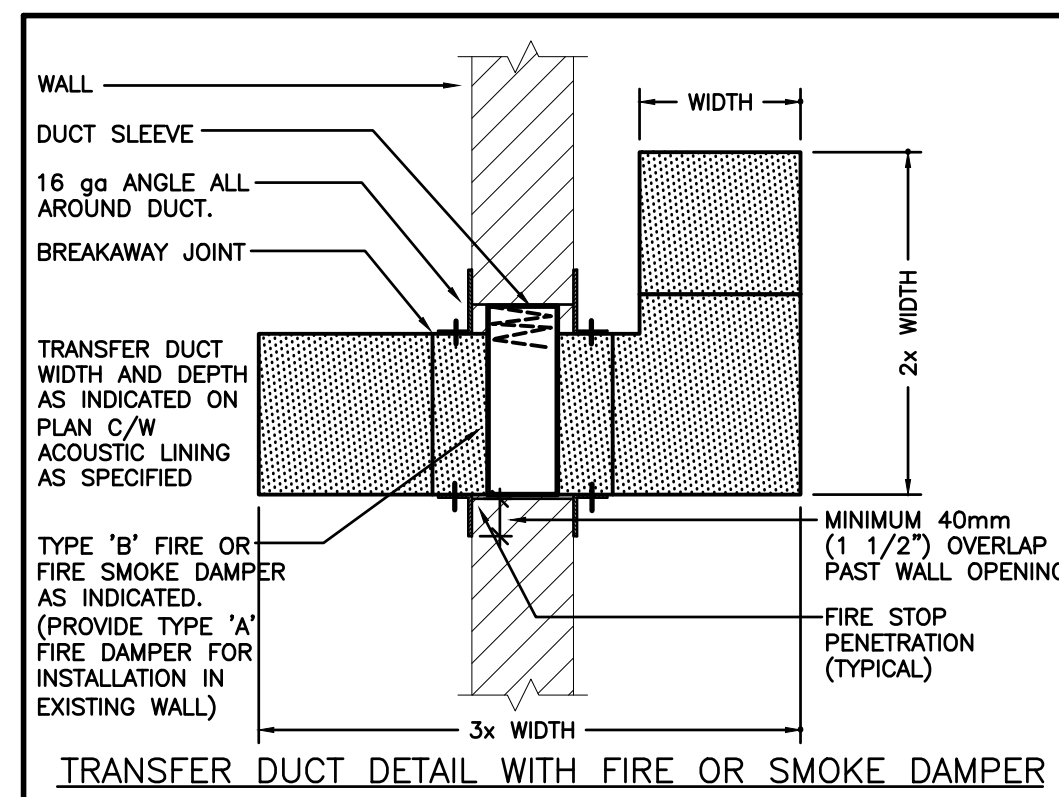
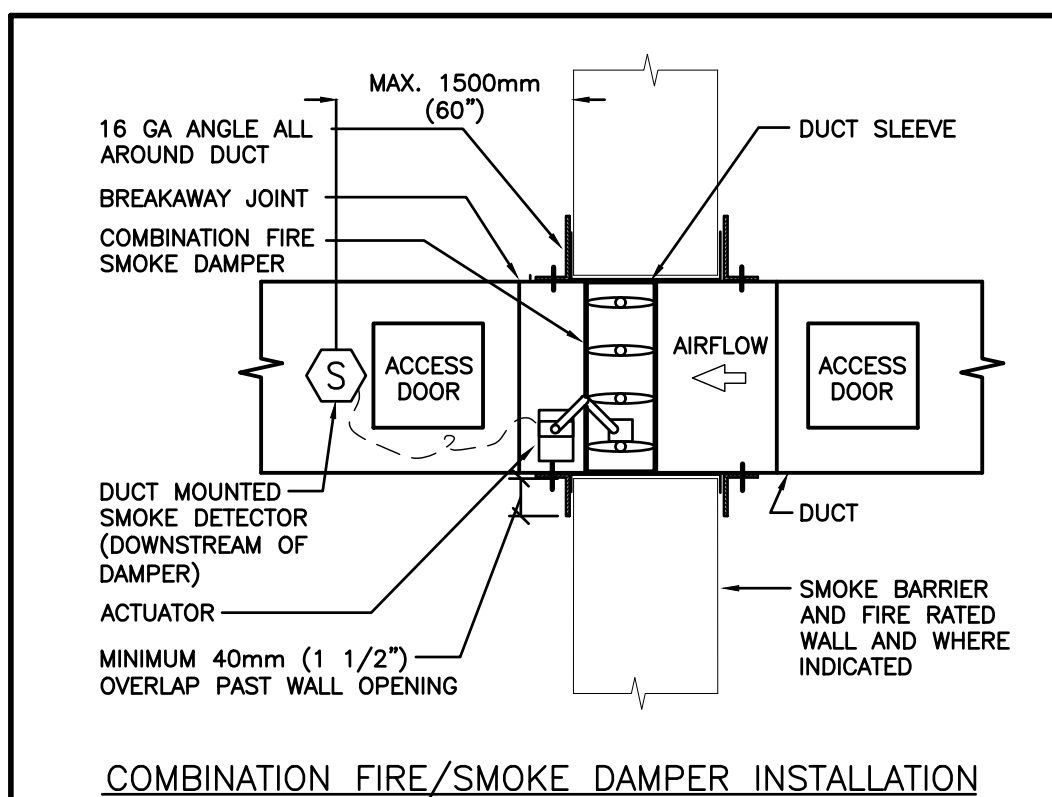
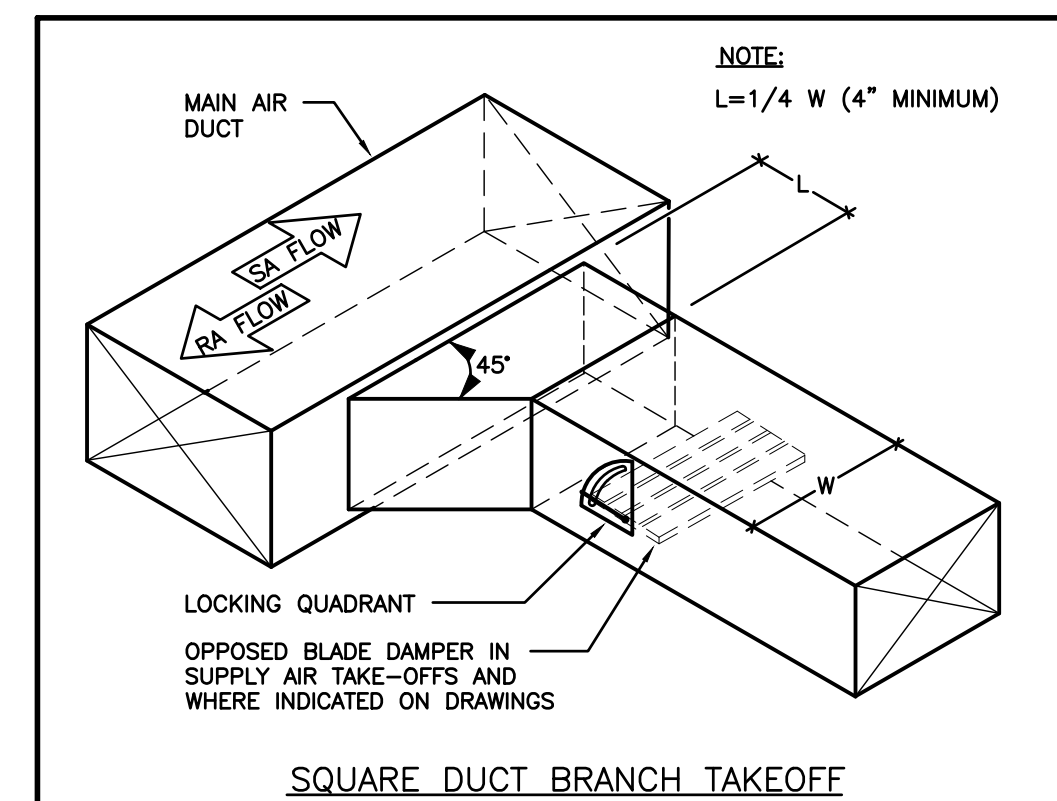
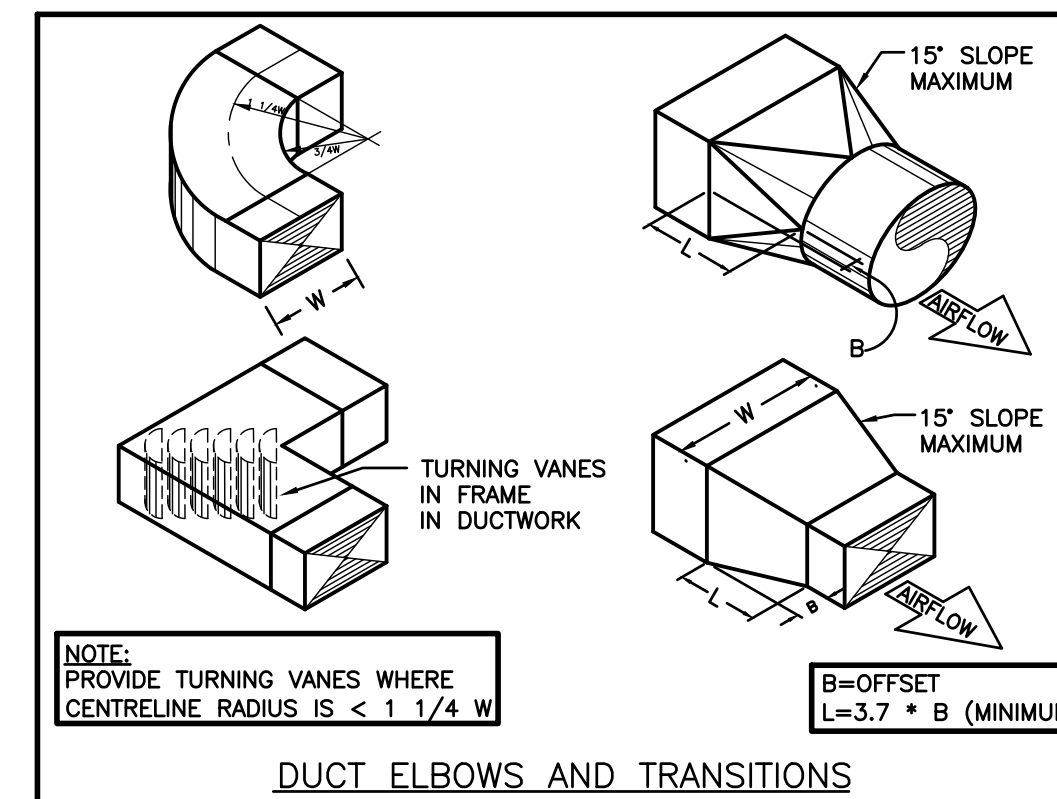
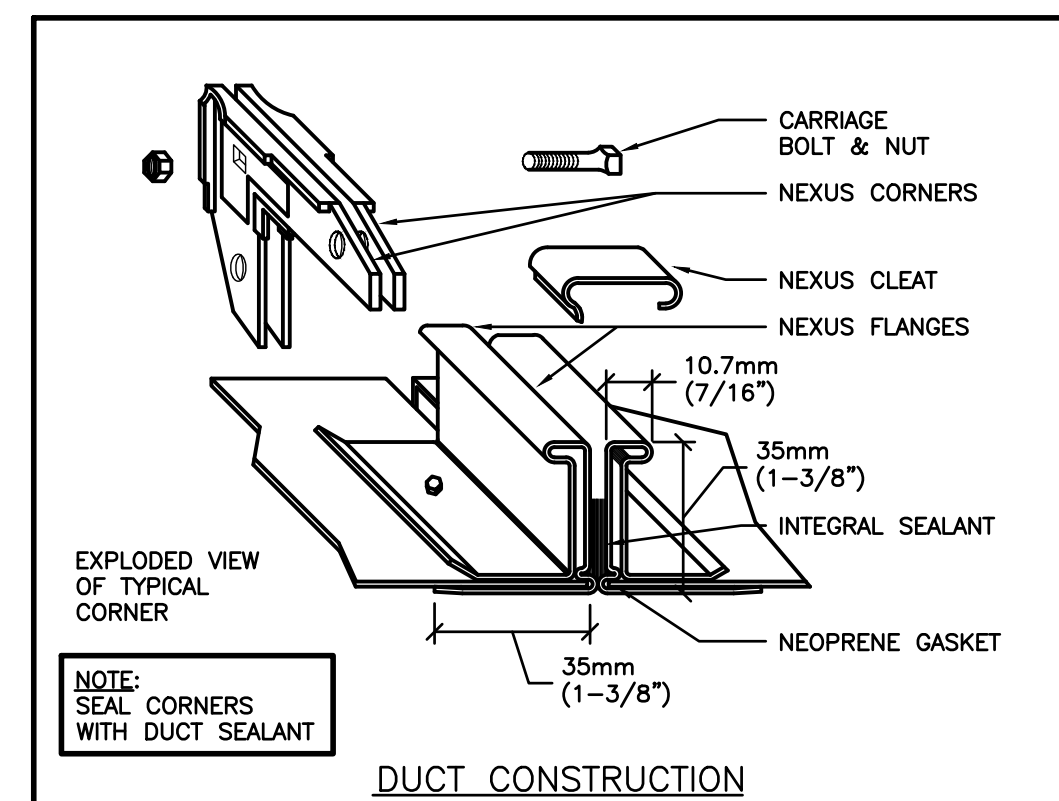
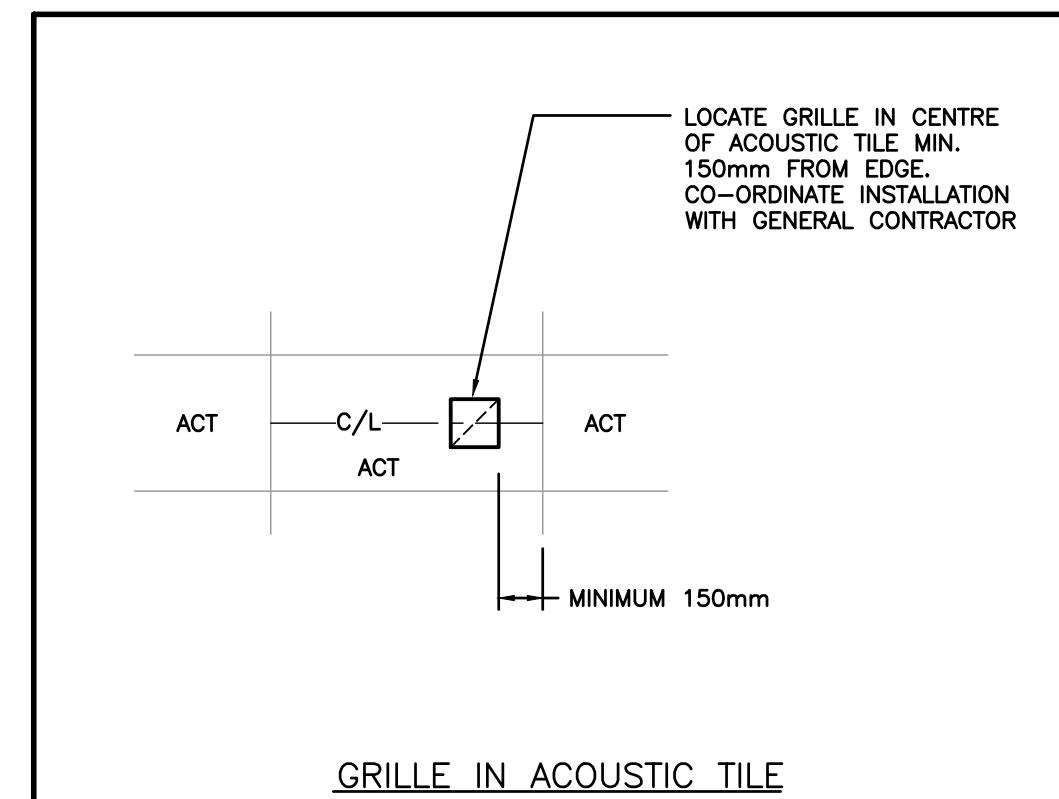
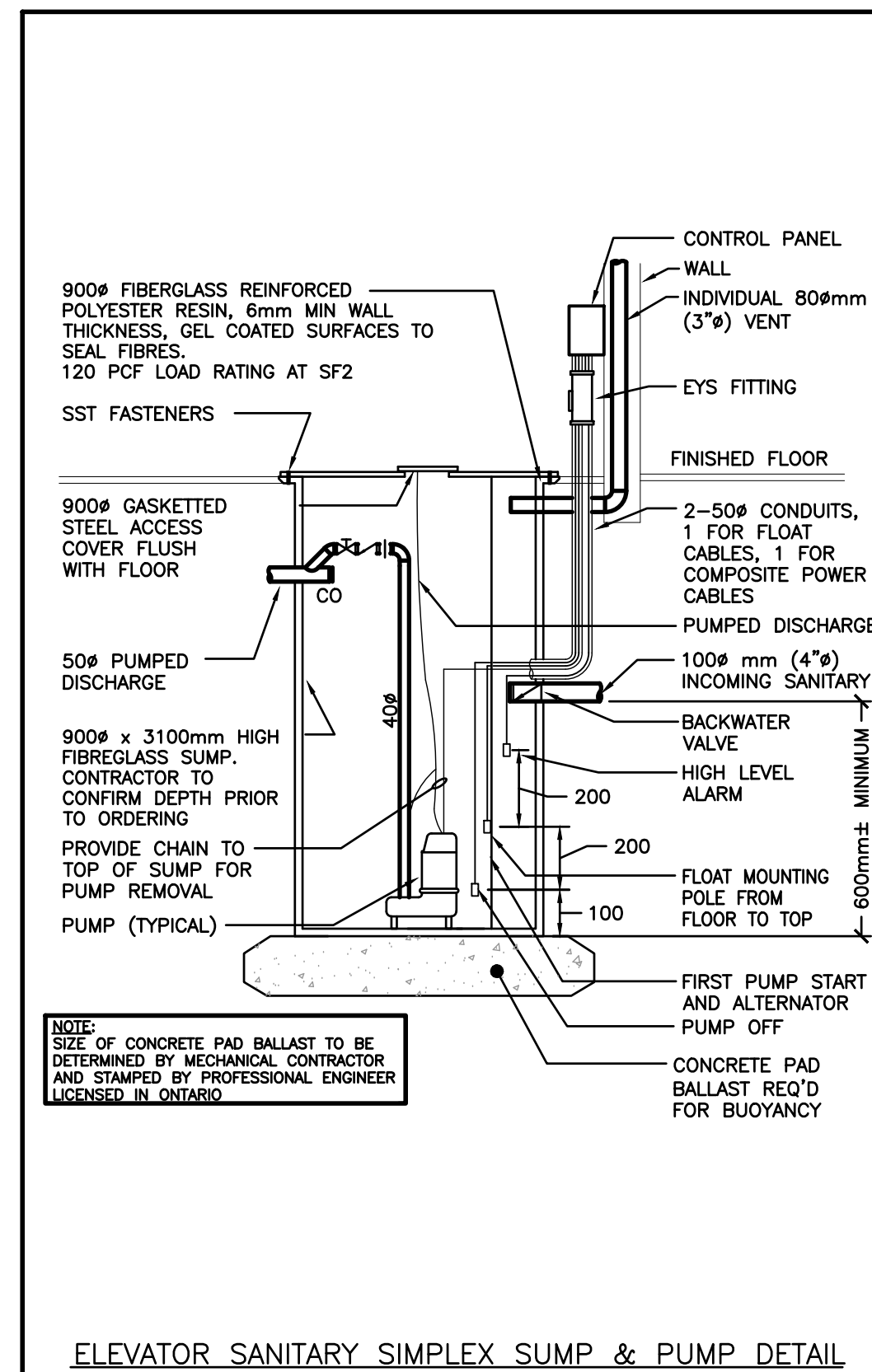
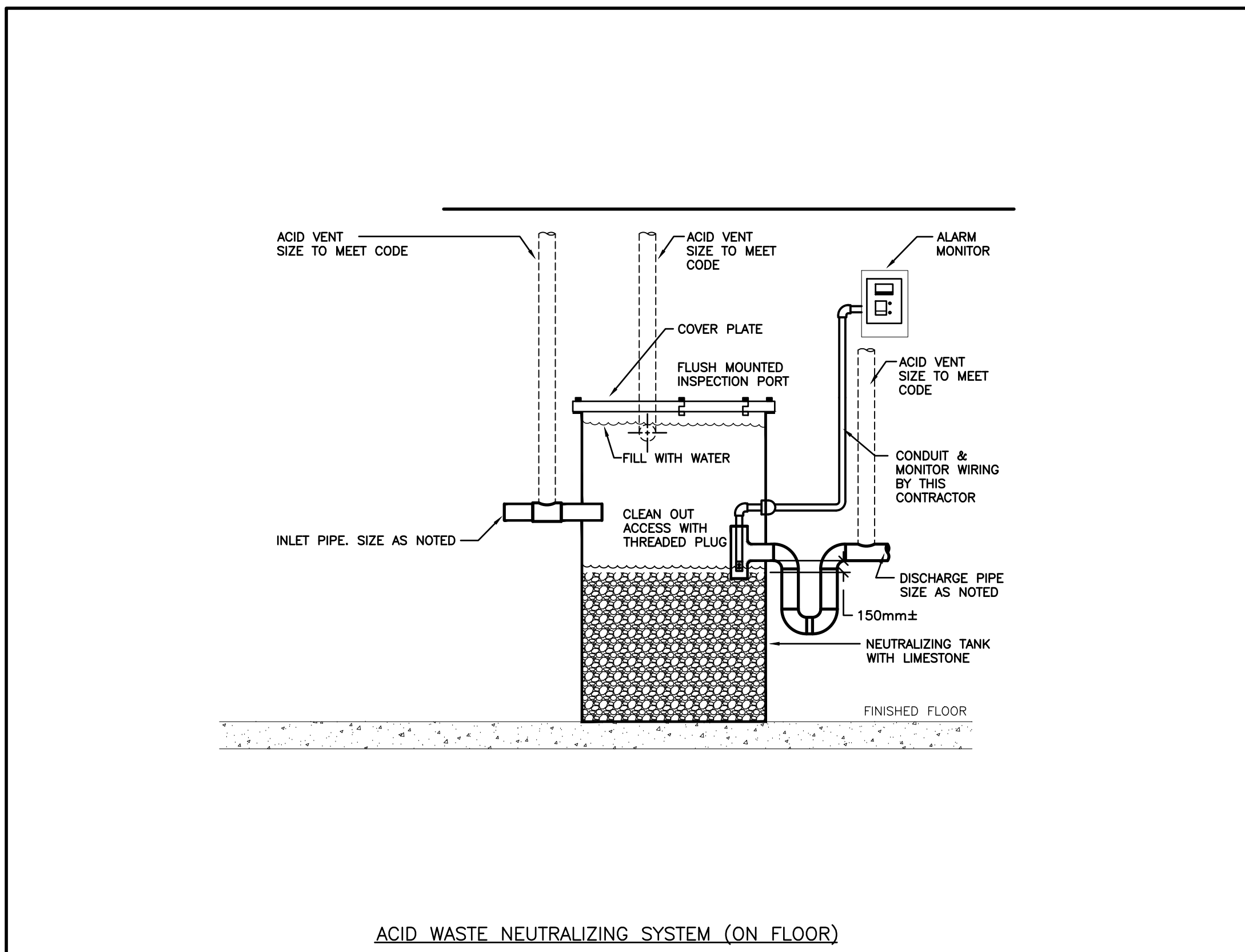
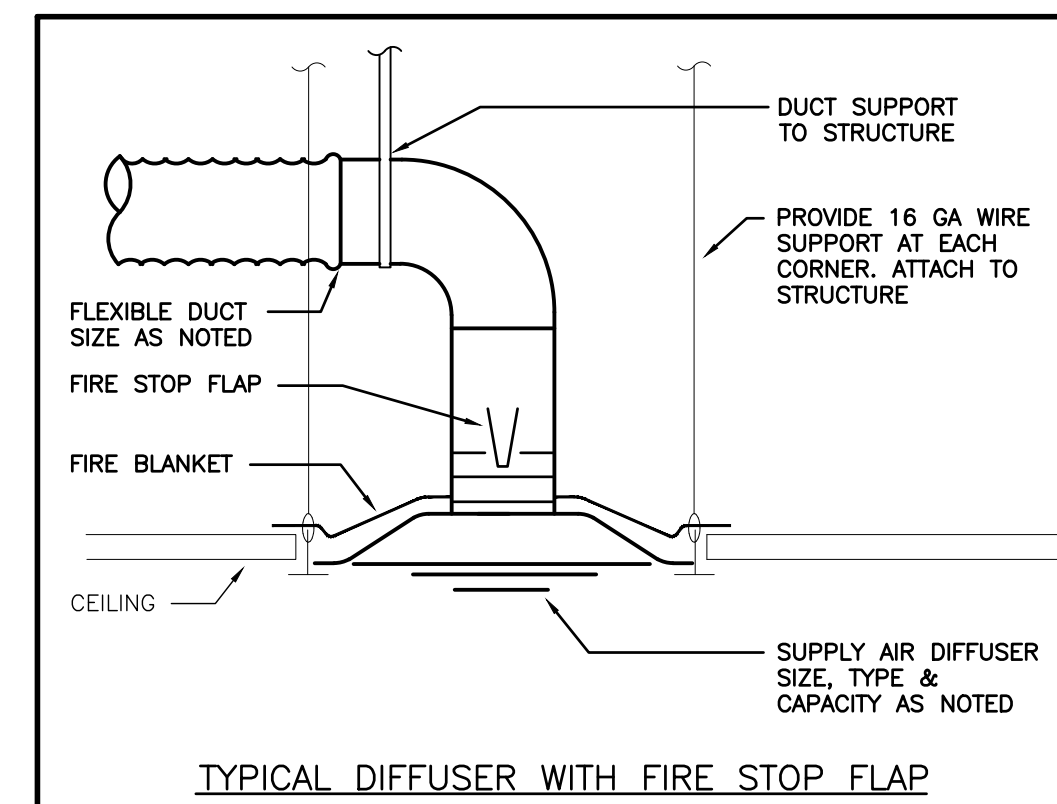
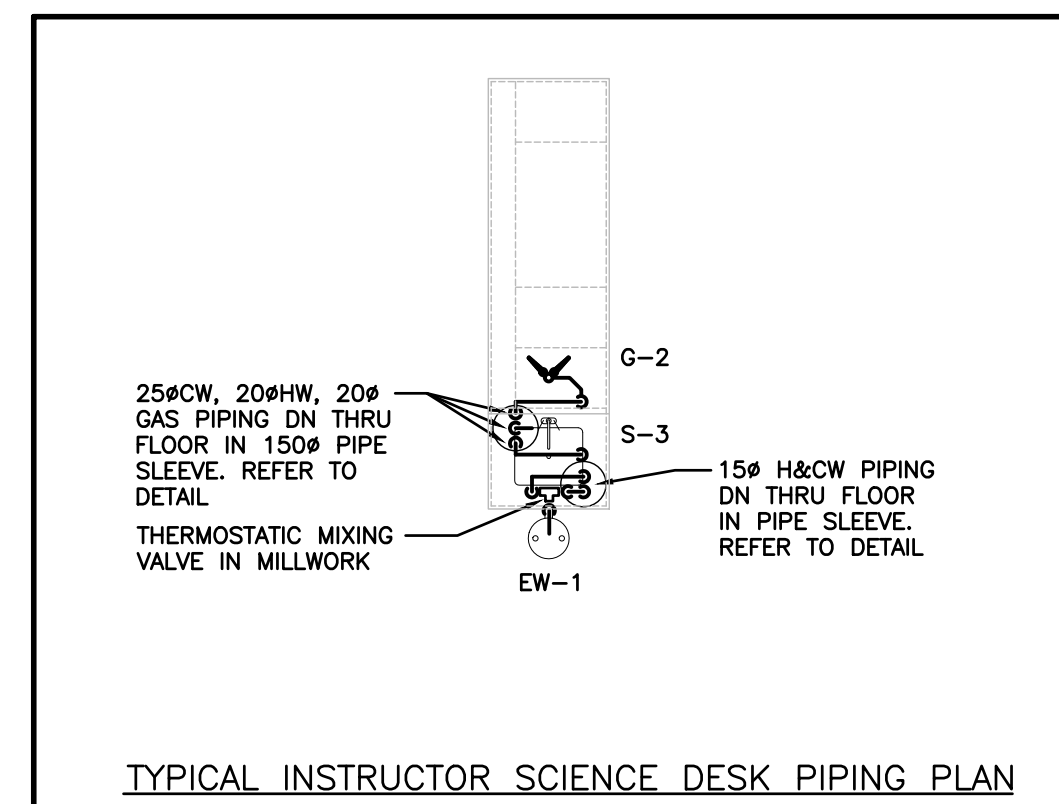
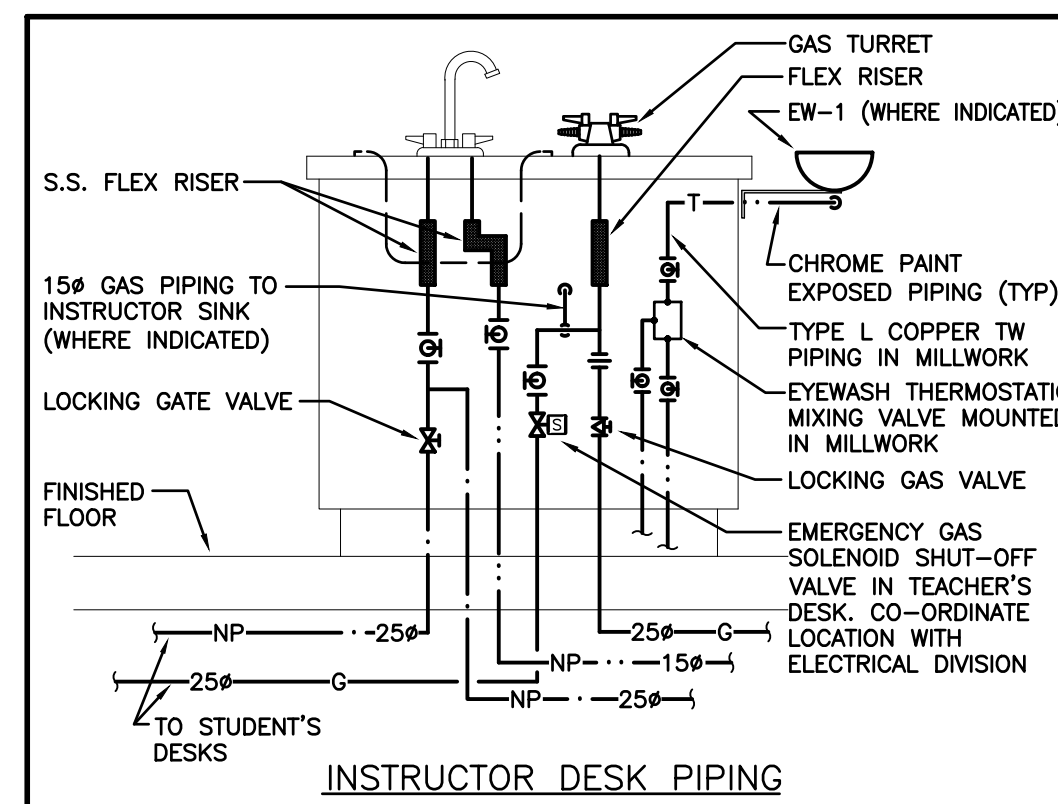
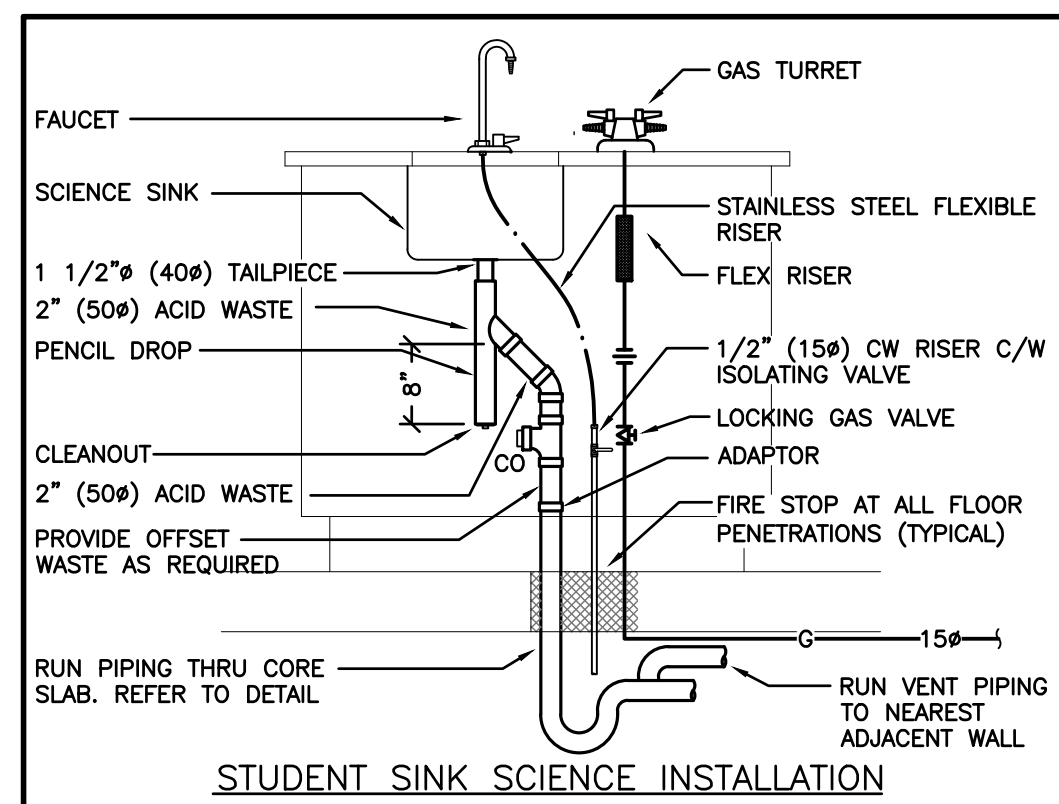
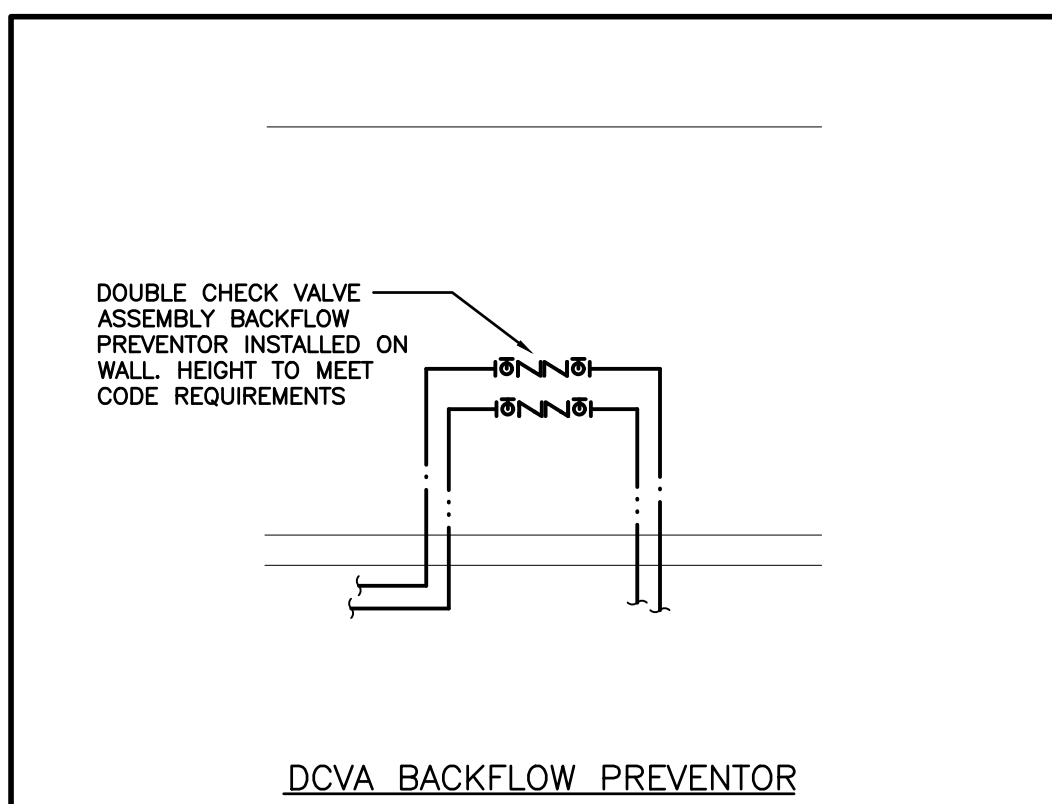
SCALE AS NOTED	DRAWING NUMBER M6.5
SHEET SIZE 24x36	
PROJECT NUMBER	



CU-1A WIRING SCHEMATIC



CU-1B WIRING SCHEMATIC



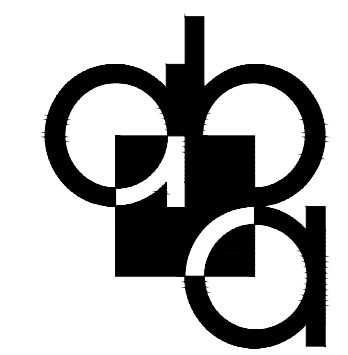
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for replacement of services and materials 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 are for general reference. All work 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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[illegible]

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[illegible]

101 Randall Drive, Unit B, Waterloo ON, TEL 519.884.2711 www.abarchitect.ca

CLIENT

The logo of the Waterloo Region District School Board is a circular emblem. It features a blue outer ring with the text "WATERLOO REGION" at the top and "DISTRICT SCHOOL BOARD" at the bottom in white capital letters. Inside the ring is a white stylized graphic of two figures, an adult and a child, holding hands or a large object, set against a blue background.

PROJECT NAME

GLENVIEW PARK
SECONDARY SCHOOL

55 McKay Street Cambridge, Ontario

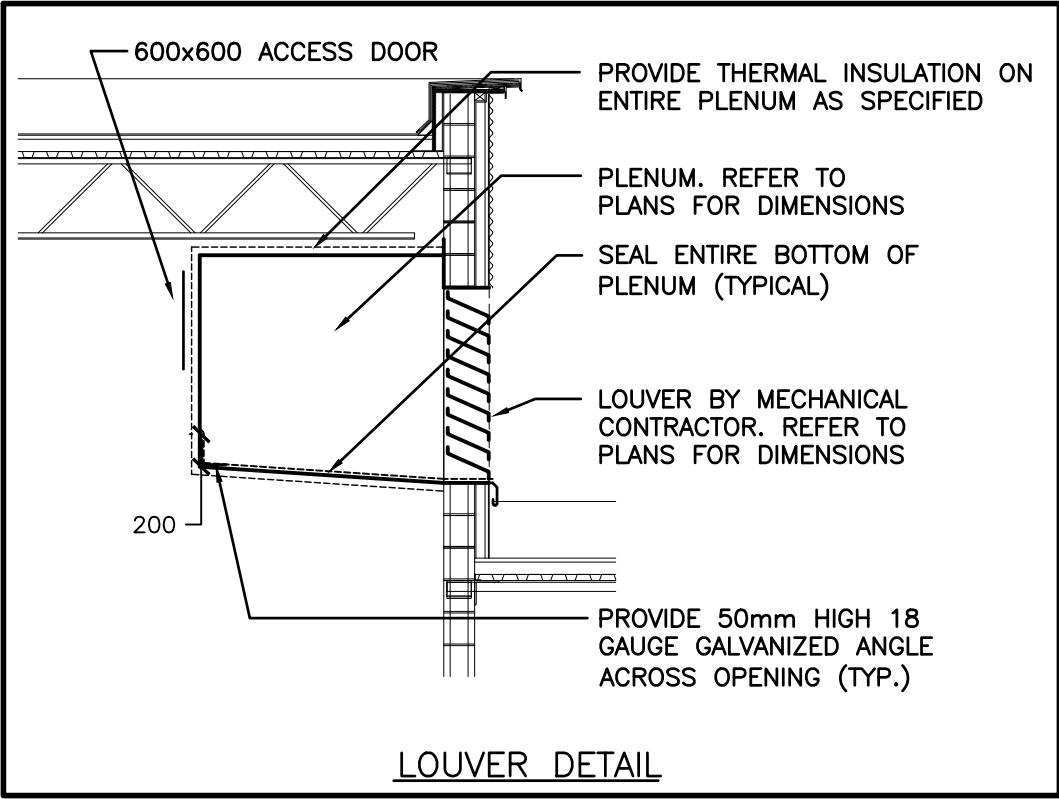
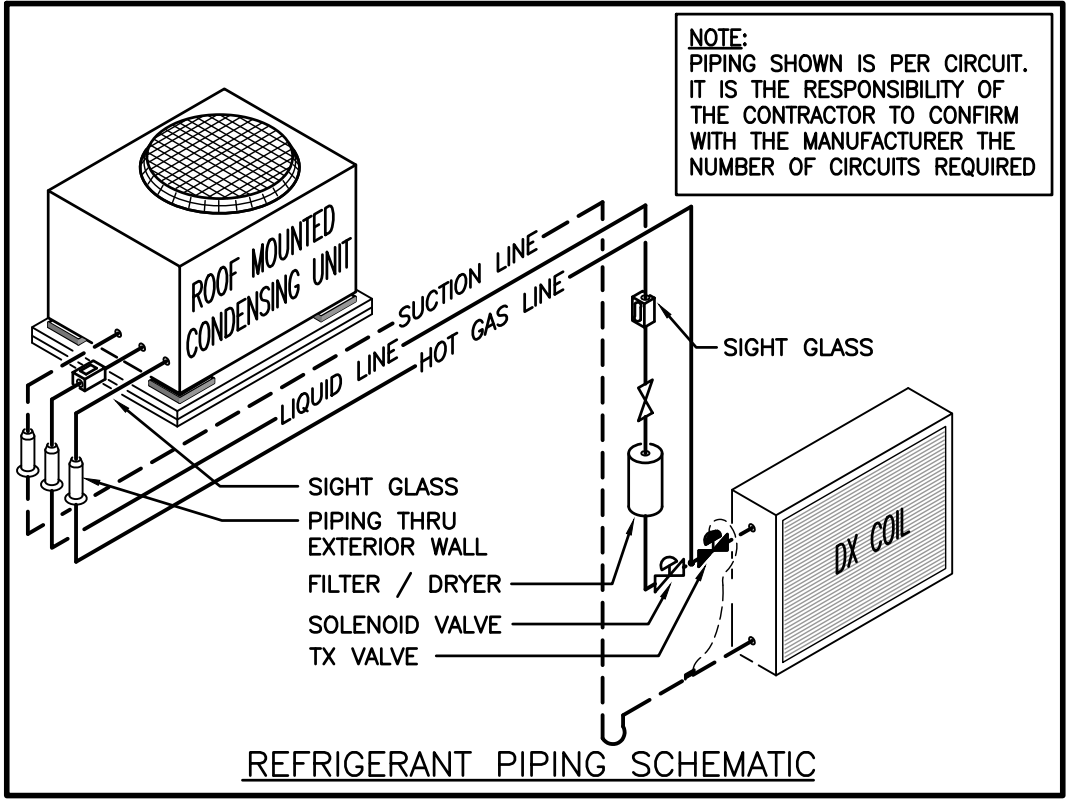
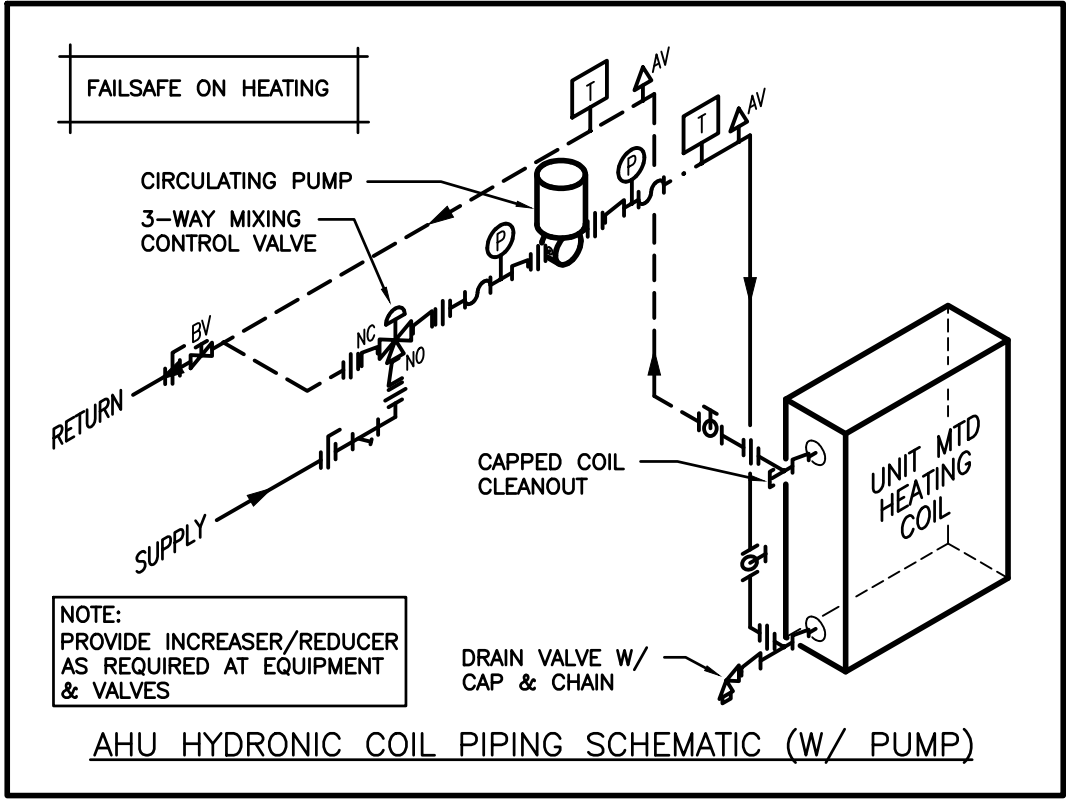
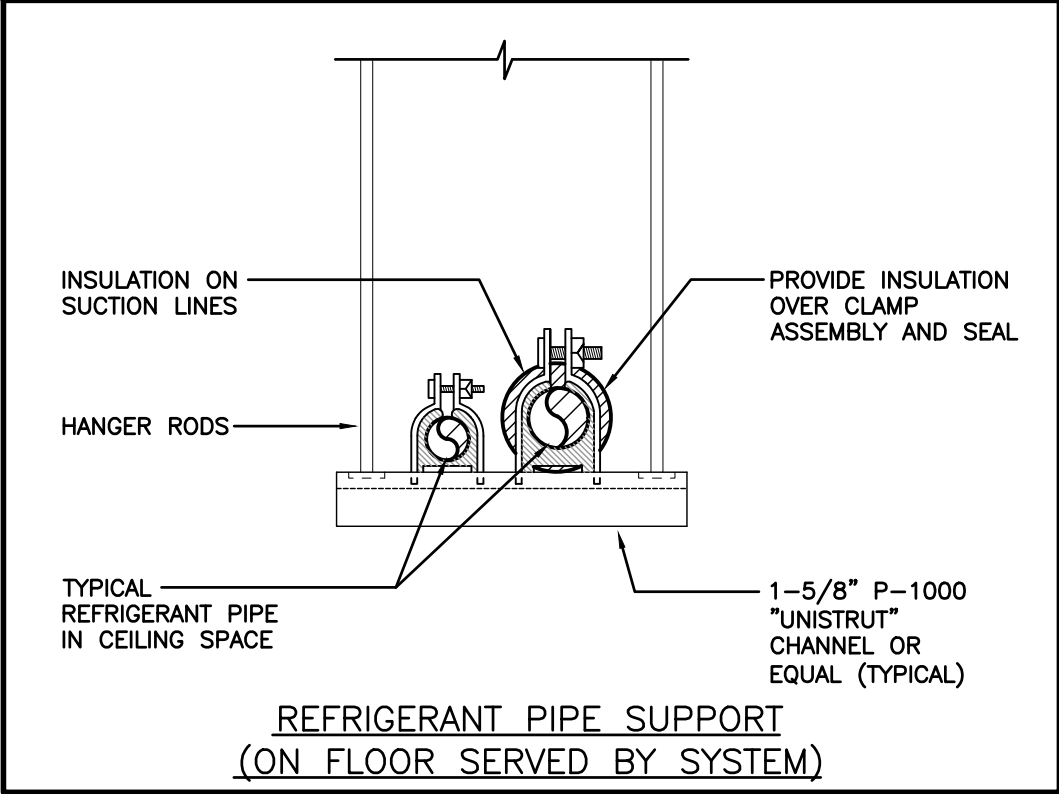
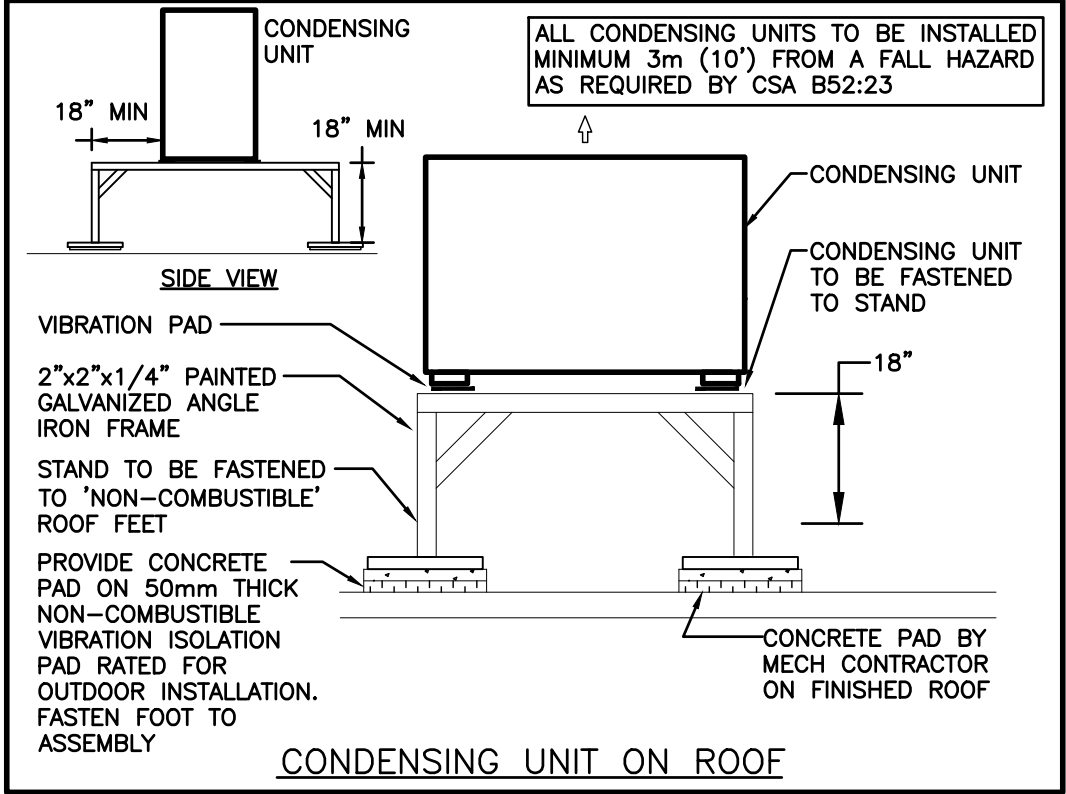
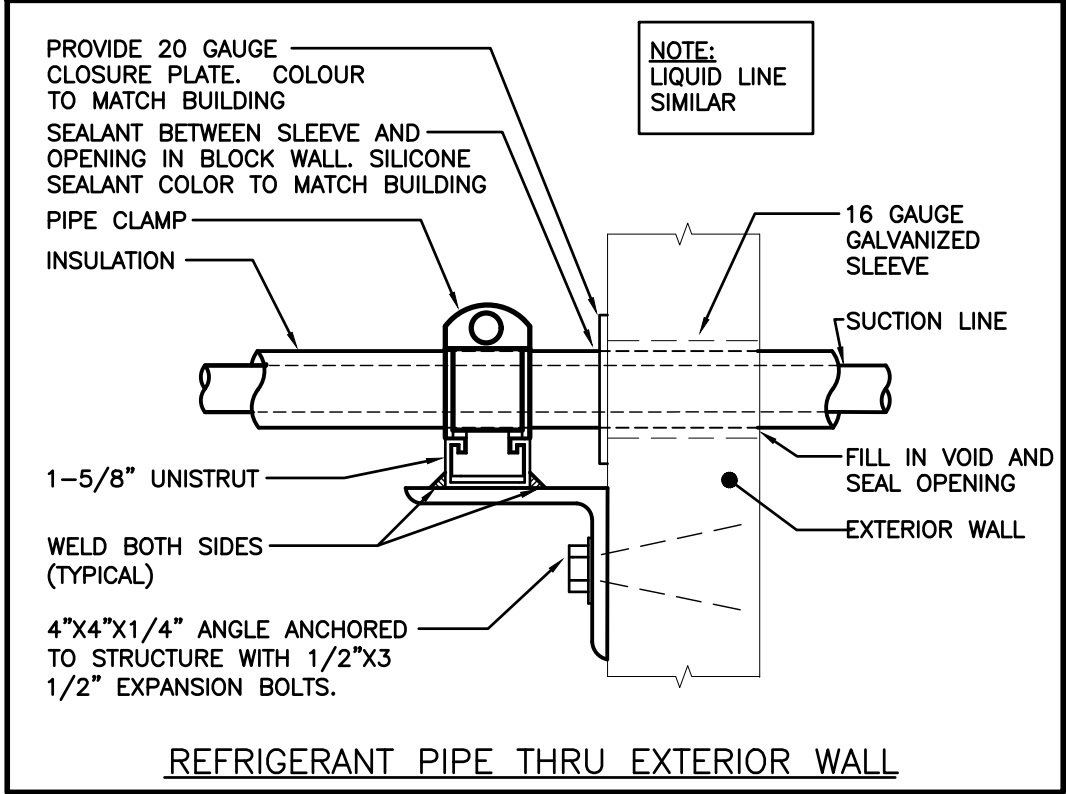
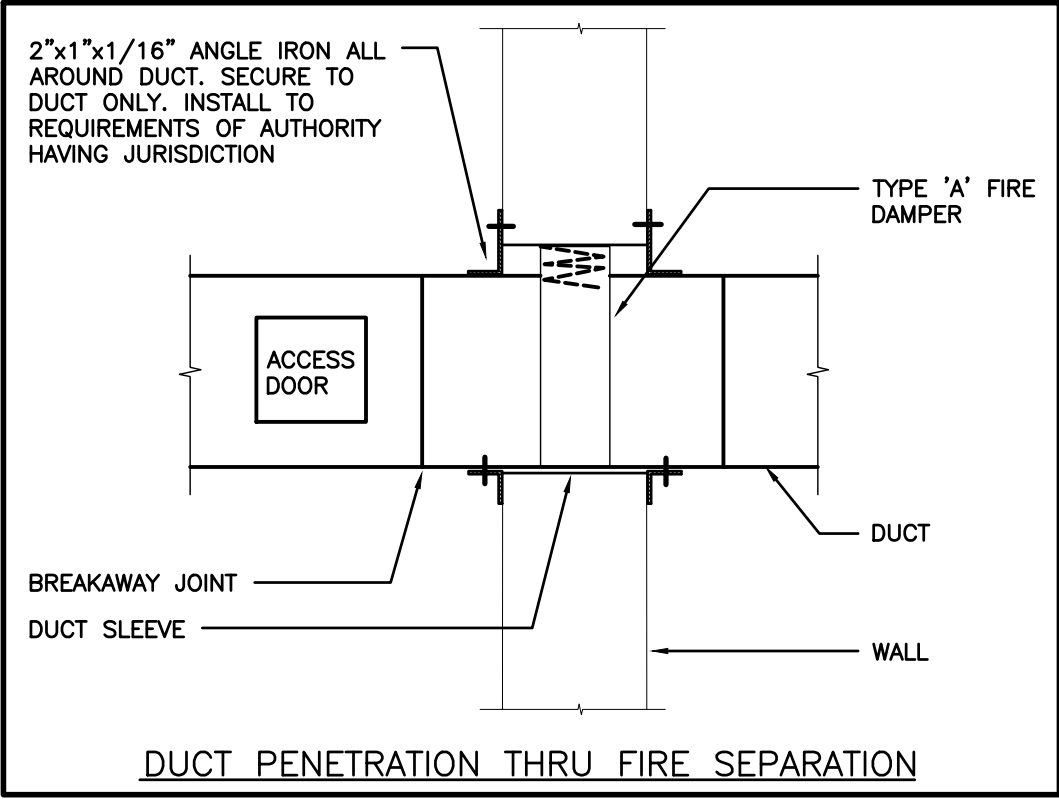
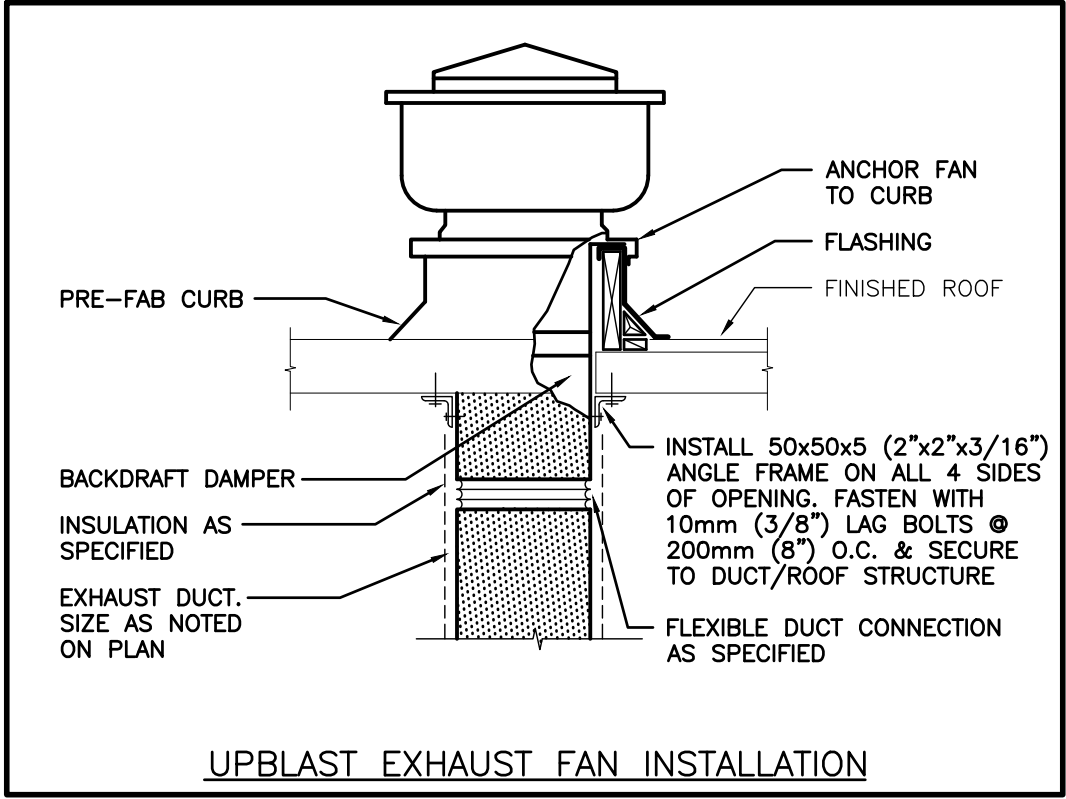
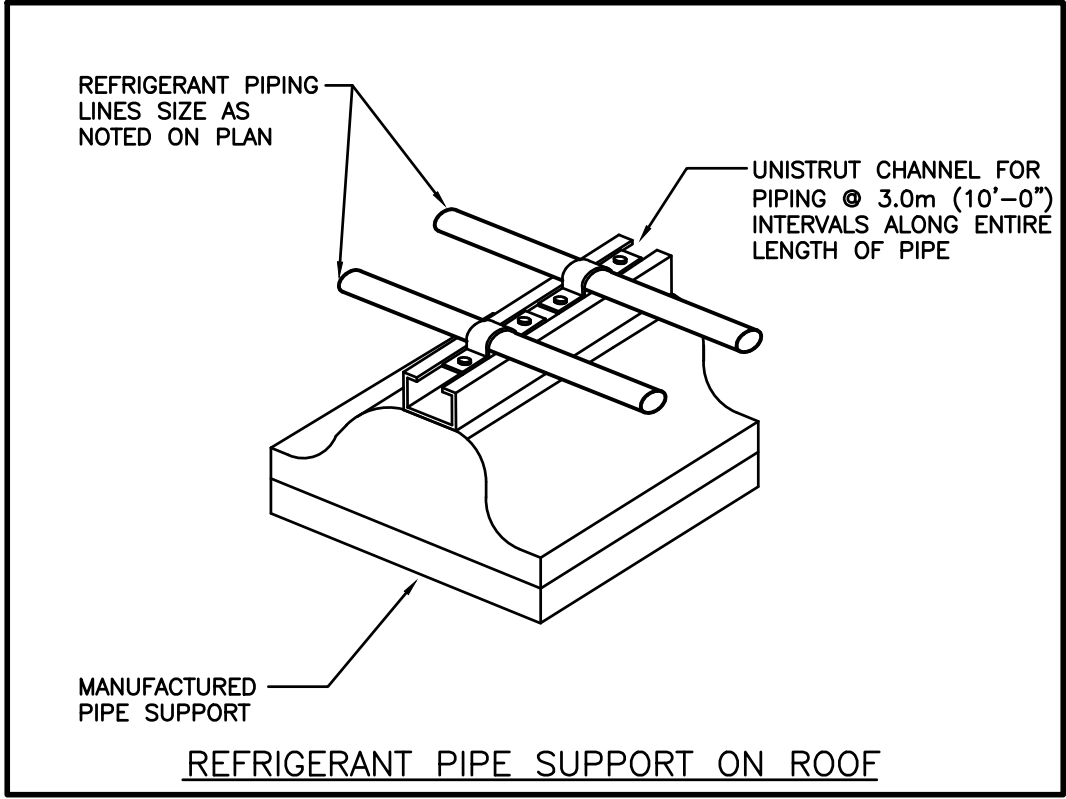
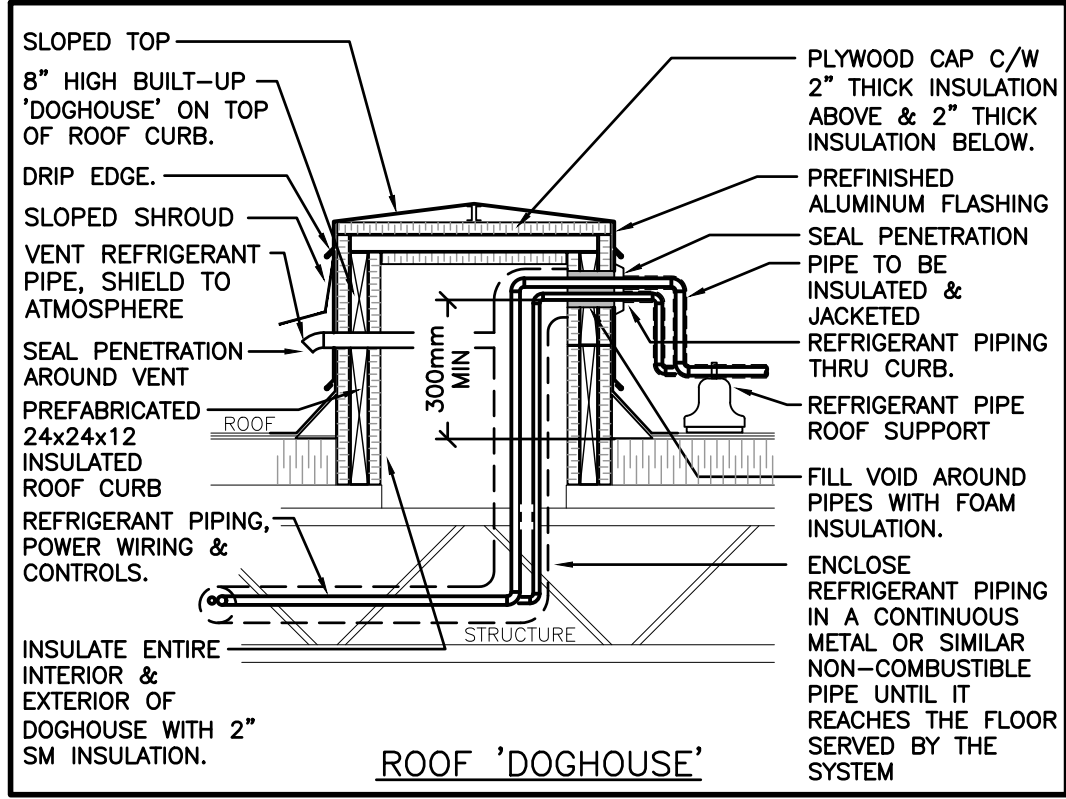
DRAWING TITLE

DETAILS (PHASE 1)

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	
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PROJECT NUMBER	

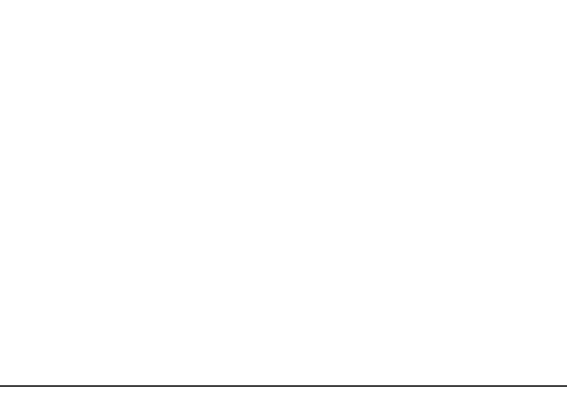
(PHASE 1)

(PHASE 2)



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. © 2025 DEI Consulting Engineers.

No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT & TENDER	2025.03.05
3	ISSUED FOR ADDENDUM 1	2025.03.20
4	ISSUED FOR CONSTRUCTION	2025.05.14



CHRONOLOGY	DATE

DEI
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Project Number: 24162

aba architects inc.
101 Randall Drive, Unit B, Waterloo ON, TEL: 519-884-2711 | www.abarchitects.com



PROJECT NAME

**GLENVIEW PARK
SECONDARY SCHOOL**
55 McKay Street Cambridge, Ontario

DRAWING TITLE

**DETAILS (PHASE 1 &
PHASE 2)**

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	
24x36	
PROJECT NUMBER	

M7.2