



Addendum # 1

Bid Opportunity: 25-7706-RFT - Glenview Park Secondary School Elevator and Science Laboratory Renovation

**Closing Date: Wednesday, March 26, 2025 2:00
PM**

The following issued by the Board shall form part of the Bid / Proposal Solicitation document. The revisions and additions noted herein along with any attachments shall be read in conjunction with all other related documents. This Addendum shall, take precedence over the previously issued documents where differences occur. Receipt of this addendum must be acknowledged in the Bidding System, bids&tenders.

If you have already submitted a Bid / Proposal, it will be automatically withdrawn as a result of this addendum. You must resubmit the Bid / Proposal acknowledging all addenda and revising your Bid / Proposal to comply with all addenda.

Question 1:

The cover page and title blocks for the architectural and structural drawing are labelled Glenview Park Secondary School HVAC improvements. This project is Glenview Park Secondary School Elevator and Science Laboratory Renovation. Please confirm the drawings issued are the correct drawings for this project.

Answer 1: The drawings issued are the correct drawings for this project.

Question 2:

Drawing A3.3 schedules Window sills as “PL-1”. There are no details or sections of the window sills. Could more detail be provided?

Answer 2: PL-1 to replace existing window sills in renovated science classrooms as shown on A3.3 attached to this addendum.

Question 3:

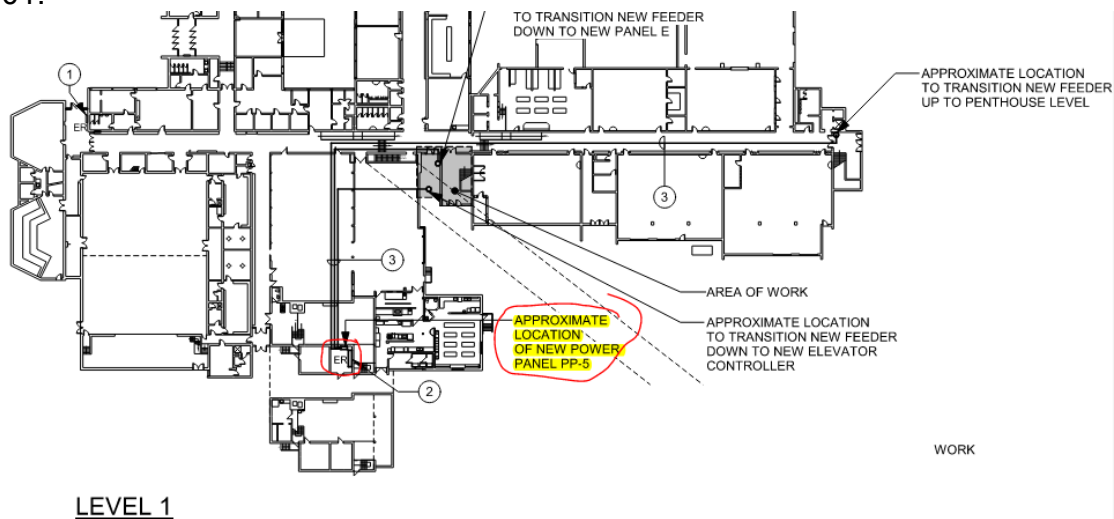
The specs call the ACM to be priced as the existing colour. Can you provide the specification for this.

Answer 3:

Specification provided in Section 07 42 16 of the specifications. Colour is to match the existing panels on the building.

Further Electrical Clarification:

Location of new Panel PP-5 as noted on the overall plan level 1 on drawing E101.



The new distribution panel PP-5 is planned to be added in the Main Electrical Rm where the Main Switchboard is located.

From this panel, we will have a new breaker to feed the elevator, new sub panel, and new distribution panel PP-MP up in the penthouse for all the Mechanical Equipment. This is noted on drawing E401.

Further Mechanical Clarification:

Please refer to attached addendum 01 issued by DEI Consulting Engineers dated March 20, 2025 for further clarifications.

March 20, 2025

Client: ABA Architects Inc.
101 Randall Drive, Unit B
Waterloo, ON N2V 1C5

RE: Glenview Park Secondary School
Elevator & Science Laboratory Renovation
Cambridge, ON

Job #: 24162

Attn: Anne Ceballo, Architectural Project Manager

ADDENDUM 01

MECHANICAL

Item 1

- 1.0 Reference Attached Reissued Drawings M1.1 and M1.2
- .1 Rename/revise 'Contractor Staging & Access to Site (Phase 1)' detail as per attached reissued drawing M1.1.
 - .2 In 'Fan Schedule (Phase 1)', revise EF-5 and EF-6 as follows:
 - .1 Capacity (cfm): 1200
 - .2 ESP (in wc): 0.375
 - .3 Accept. Manuf: Penn Barry FX12BH
 - .3 In 'Fan Schedule', remove general fan notes mentioning "ceiling fans".
 - .4 Add 'Pump Schedule' as per reissued drawing M1.1.
 - .5 Revise 'Unit Detail' as per attached reissued drawing M1.2.

Item 2

- 2.0 Reference Drawing M2.1 and Attached Sketch ADD01-M01
- .1 In Office C115A, apply demo/reno Note #1 to thermostat.

Item 3

- 3.0 Reference Drawing M2.2 and Attached Sketch ADD01-M02
- .1 In Mech B112A, add the following note to the existing compressor:
"Contractor to confirm existing compressor no longer serves any equipment/controls following pneumatic demolition work. Upon confirmation, coordinate with Owner to remove existing compressor/pneumatic tubing completely."

Item 4

- 4.0 Reference Drawing M2.4 and Attached Sketch ADD01-M03
- .1 In 'Mechanical Room C200 Part Plan BAS (Phase 1)', add the following note to the existing unit heat adjacent to EX-F-1:
"Existing unit heater to be integrated to BAS. All existing controls, actuators, and sensors to be replaced completely."

Item 5

- 5.0 Reference Drawings M3.1 and M3.2
 .1 No demolition work indicated. Delete page in its entirety.

Item 6

- 6.0 Reference Attached Reissued Drawing M3.3
 .1 Revise piping as per attached reissued drawing M3.3.

Item 7

- 7.0 Reference Drawing M3.4 and Attached Sketch ADD01-M04
 .1 In Existing Corridor, provide 80 mm isolation ball valves on new heating water supply/return piping up to mechanical room.

Item 8

- 8.0 Reference Drawings M4.2 and M4.3 and Attached Sketches ADD01-M05 and ADD01-M06
 .1 Revise ventilation demolition as per attached sketch ADD01-M05.
 .2 Revise ventilation renovation as per attached sketch ADD01-M06.

Item 9

- 9.0 Reference Attached Reissued Drawing M6.1
 .1 In 'Mechanical Room – Piping & Drainage Demolition (Phase 2)', remove existing supply unit AH-5 control panel completely as per attached reissued drawing M6.1.
 .2 In 'Mechanical Room – Piping & Drainage Renovation (Phase 2)', revise HVAC-5 heating coil piping as per attached reissued drawing M6.1.
 .3 Revise 'Specific Demolition Notes' and 'Specific Renovation Notes' as per attached reissued drawing M6.1.

Item 10

- 10.0 Reference Drawing M6.2 and Attached Sketches ADD01-M07 and ADD01-M08
 .1 In 'Mechanical Room – Ventilation Demolition (Phase 2)', remove existing obsolete exhaust fan and store on site as per attached sketch ADD01-M07 and ADD01-M08.
 .2 Revise 'Specific Demolition Notes' as per attached sketch ADD01-M07.

Item 11

- 11.0 Reference Drawing M7.2 and Attached Sketch ADD01-M09
 .1 Delete 'Air Handling Unit Heating Coil Piping (2-way Valve)' detail and replace with 'AHU Hydronic Coil Piping Schematic (w/ Pump)' detail as per attached sketch ADD01-M09.
 .2 Revise 'Condensing Unit on Roof' detail as per attached sketch ADD01-M09.

ELECTRICAL

Item 1

- 1.0 Reference Attached Reissued Specification Section 26 29 13 'Starters and Contactors'
 .1 FVNR combination starter section added.



Item 2**2.0 Reference Attached Reissued Drawing E101**

- .1 Five (5) BAS panels added on key plan Levels 1 and 2. Provide 120V 15A receptacle and data (rough-in only) to each location. Exact location for each BAS panel to be confirmed on site with Mechanical Contractor and Owner. 120V circuit for BAS panel receptacle to be taken from nearest local panel available. Refer to allowances in electrical specification sections 26 05 75 and 26 27 26 for further details.
- .2 Add existing mechanical equipment to be demolished on key plan levels 1 and 2. Disconnect and remove existing power and associated disconnect switch (if applicable) back to source panel or nearest junction box and make safe.
- .3 Include as part of base bid price to relocate existing junction box, conduit, and wiring as required, currently installed in the main electrical room near proposed location of new Distribution Panel PP-5.

Item 3**3.0 Reference Attached Reissued Drawing E103**

- .1 EWS updated.

Item 4**4.0 Reference Attached Reissued Drawing E203**

- .1 Fire smoke damper added near Room A205.

Item 5**5.0 Reference Attached Reissued Drawing E304**

- .1 Existing exhaust fan unit to be demolished. Refer to detail A/304.
- .2 HVAC-5 Circulation Pump (P-10) added. Provide 208V 3PH power and starter for equipment as shown. Refer to detail B/304.

Item 6**6.0 Reference Attached Reissued Drawing E401**

- .1 Revisions made to distribution riser diagram. See drawing for details.

Item 7**7.0 Reference Attached Reissued Drawing E402**

- .1 Update panel schedule 'Panel E.'
- .2 Update panel schedule 'Panel MP.'

**Steve Oatley****Lead Designer, Partner**24162 Addendum 01 (M&E-Various)(various reissued dwgs) Mar 20 25.docx
so/jb/smb



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.

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).

Item	Description	Item	Description	Item	Description
	EXIST EXISTING & CONNECT NEW PIPING		HEATING WATER RETURN PIPING		TEMPERATURE CONTROL VALVE
	FLOW DIRECTION		NATURAL GAS PIPING		WALL MOUNTED FIRE EXTINGUISHER
	DOMESTIC COLD WATER PIPING		HIGH PRESSURE NATURAL GAS PIPING		FIRE BLANKET
	DOMESTIC HOT WATER PIPING		FLOOR DRAIN		FLOOR CLEANOUT
	NON-POTABLE DOMESTIC COLD WATER PIPING		FLOOR DRAIN WITH BACKWATER VALVE		LINE CLEANOUT
	NON-POTABLE DOMESTIC HOT WATER PIPING		TRAP PRIMER		THERMOSTAT (WITH OR WITHOUT GUARD)
	DOMESTIC HOT WATER RECIRC. PIPING		TEE CONNECTION		HUMIDISTAT (WITH OR WITHOUT GUARD)
	DOMESTIC TEMPERED WATER PIPING		PIPE DOWN		CARBON DIOXIDE (CO2) SENSOR (WITH OR WITHOUT GUARD)
	DOMESTIC HARD COLD WATER PIPING		PIPE UP		TURNING VANES
	DOMESTIC SOFT COLD WATER PIPING		CHECK VALVE		SUPPLY AIR DUCT
	EXISTING SANITARY PIPING ABOVE FLOOR		BACKFLOW PREVENTOR		RETURN/EXHAUST AIR DUCT
	EXISTING SANITARY PIPING BELOW FLOOR		DOUBLE CHECK VALVE ASSEMBLY (DCA) BACKFLOW PREVENTOR		ACOUSTIC DUCT LINING
	SANITARY PIPING ABOVE FLOOR		UNION		BALANCING DAMPER
	SANITARY PIPING BELOW FLOOR		STRAINER		MOTORIZED DAMPER (OPPOSED BLADE)
	PUMPED SANITARY PIPING		SCREWED OR WELDED PIPE CAP		FIRE DAMPER
	ACID WASTE		NORMALLY OPEN		FLEXIBLE ROUND DUCT
	ACID VENT PIPING		NORMALLY CLOSED		RIGID ROUND DUCT
	EXISTING STORM PIPING ABOVE FLOOR		PLUG VALVE		ALUMINUM DUCT
	EXISTING STORM PIPING BELOW FLOOR		BALL VALVE		DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
	STORM PIPING ABOVE FLOOR		BUTTERFLY VALVE		HYDRONIC HEATING SIZE, TYPE & CAPACITY
	STORM PIPING BELOW FLOOR		GATE VALVE		RETURN IN CABINET
	CONDENSATE PIPING		MOTORIZED VALVE ACTUATOR		ABOVE FINISHED FLOOR
	VENT PIPING		CONTROL VALVE ACTUATOR		ABOVE FINISHED ROOF
	STANDPIPE PIPING		SOLENOID VALVE		CONNECT TO EXISTING
	SPRINKLER PIPING		RISER VALVE		PUMPED
	DRY SPRINKLER PIPING		BALANCING VALVE		EXISTING DUCT (SIZE AS INDICATED)
	HEATING WATER SUPPLY PIPING		SUPERVISING VALVE		

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 FURNISH THE FOLLOWING CERTIFICATE(S) FOR PERFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:

- POTABLE WATER TEST (SEE SPEC 22 11 16 PART 5)
- KNOWFLOW TEST CERTIFICATE(S) FOR TESTABLE DEVICES
- COPY OF MANDATORY TSSA/CSA-B149 GAS PRESSURE TEST TAG
- LETTER FROM CONTRACTOR CERTIFYING 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.

[illegible]

Item	Type	Service	Supply Air Data		Refrig.	Unit Weight lbs	MCA	MOCP	Voltage	Manufacturer & Model
			Capacity Tons	Size bhp						
DS-3	INDOOR WALL MOUNTED UNIT	MACH. 231	2	Fhp	R32	50±	1	15	208/1/60	LG LSN243HLV

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	

Item	Type	Cooling Capacity (Btu/h)		Refrig.	Piping Connections (in.)		Electrical			Manufacturer & Model
		Total Cooling	Heating Cooling		Liquid	LP Gas	HP Gas	Voltage	MCA	
CU-4A1	OUTDOOR MOUNTED	147.0	166.0	R410A	3/4	1-3/8 1-1/8	208/3/60	61.9	70	DAIKIN REYQ33XBTA
CU-4A2	OUTDOOR MOUNTED	147.0	166.0	R410A	3/4	1-3/8 1-1/8	208/3/60	61.9	70	DAIKIN REYQ33XBTA
CU-4B1	OUTDOOR MOUNTED	147.0	166.0	R410A	3/4	1-3/8 1-1/8	208/3/60	61.9	70	DAIKIN REYQ33XBTA
CU-4B2	OUTDOOR MOUNTED	147.0	166.0	R410A	3/4	1-3/8 1-1/8	208/3/60	61.9	70	DAIKIN REYQ33XBTA

Item	Type	Unit Weight lbs	MCA	MOCP	Voltage	Manufacturer & Model	Remarks
CU-3	ROOF MOUNTED CONDENSING UNIT	140±	19	30	208/1/60	LG LSU243HLV	C/W LOW AMBIENT OPERATION, AC UNIT POWERED THRU OUTDOOR UNIT

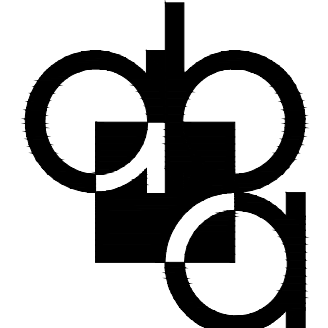
Item	Service	Design Capacity(cfm)	Size	Item	Service	Design Capacity(cfm)	Size
BPD-5.0A	HVAC-5		900x300	WT-5.14	CHEMISTRY LAB A212	600	350x200
BPD-5.0B	HVAC-5		900x300	WT-5.15	CHEMISTRY LAB A210	600	350x200
				WT-5.16	CHEMISTRY LAB A210	600	350x200
WT-5.1	CLASSROOM A215 & SEWING/ FASHION ARTS A217	1600	400x350	WT-5.17	PREP ROOM A208	450	250x225
WT-5.2	BUSINESS A213	600	350x200	WT-5.18	BIOLOGY A206	600	350x200
WT-5.3	BUSINESS A213	600	350x200	WT-5.19	BIOLOGY A206	600	350x200
WT-5.4	BIOLOGY LAB A211	600	350x200	WT-5.20	PREP ROOM A204	450	250x225
WT-5.5	BIOLOGY LAB A211	600	350x200	WT-5.21	PHYSICS A202	300	225x200
WT-5.6	COMPUTERS A209	600	350x200	WT-5.22	PHYSICS A202	300	225x200
WT-5.7	COMPUTERS A209	600	350x200	WT-5.23	WORKROOM A118	100	250x100
WT-5.8	DEPT HEAD A207	150	175x150	WT-5.24	TECH OFFICE A118A	150	250x100
WT-5.9	DEPT HEAD A207	150	175x150	WT-5.25	STORAGE A114C	150	250x100
WT-5.10	ART & MARKETING A205	1000	400x300	WT-5.26	EDIT A114B	150	250x100
WT-5.11	DARK ROOM N200	500	300x200	WT-5.27	STORAGE A114A	150	250x100
WT-5.12	ART A216 & ART A218	2000	500x350	WT-5.28	N116	600	300x250
WT-5.13	CHEMISTRY LAB A212	600	350x200				

[illegible]

Item	Type	Empty Capacity gal.	Actual Capacity gal.	Limestone Charge lbs	Dimensions	Manufacturer	Model	Remarks
NT-1	MOUNTED ON FLOOR	68	30	900	30"ø 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"ø x 12.5"	SMS	SI-MQ	INSTALL IN MILLWORK BELOW SINK, FOR LOCATIONS & QUANTITIES, REFER TO PLANS.

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 2AAB	208/3/60, C/W MOTOR SUITABLE FOR REMOTE VFD. ACCEPTABLE ALTERNATIVES: ARMSTRONG, MYERS, JACO, HYDRAMATIC

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

[illegible][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

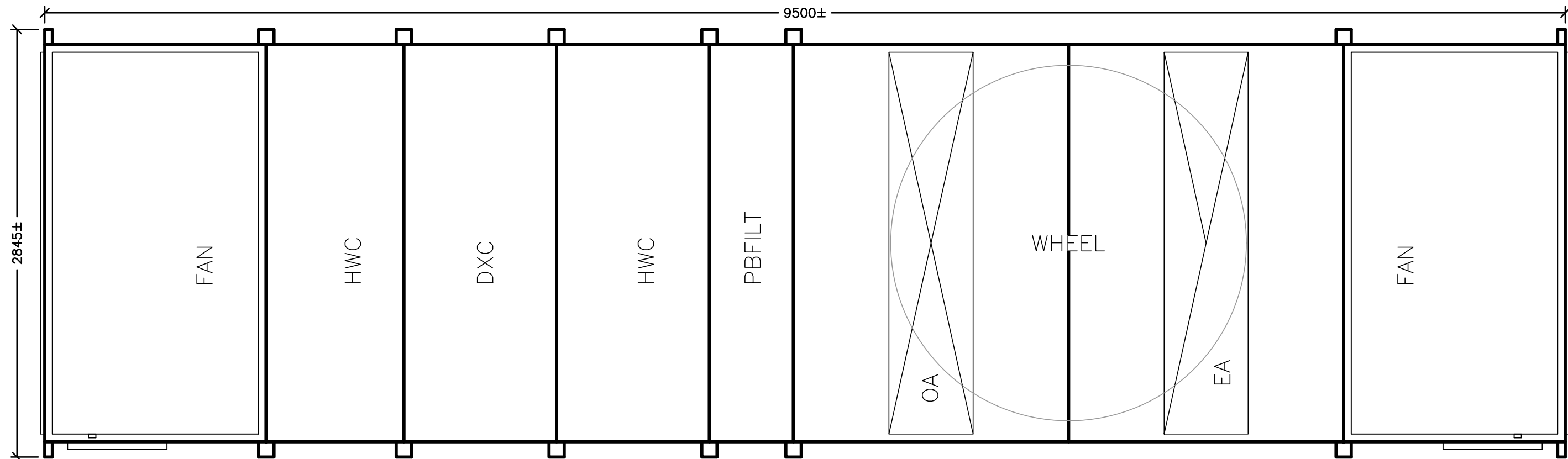
DRAWING TITLE

KEY PLAN, LEGEND &
SCHEDULES

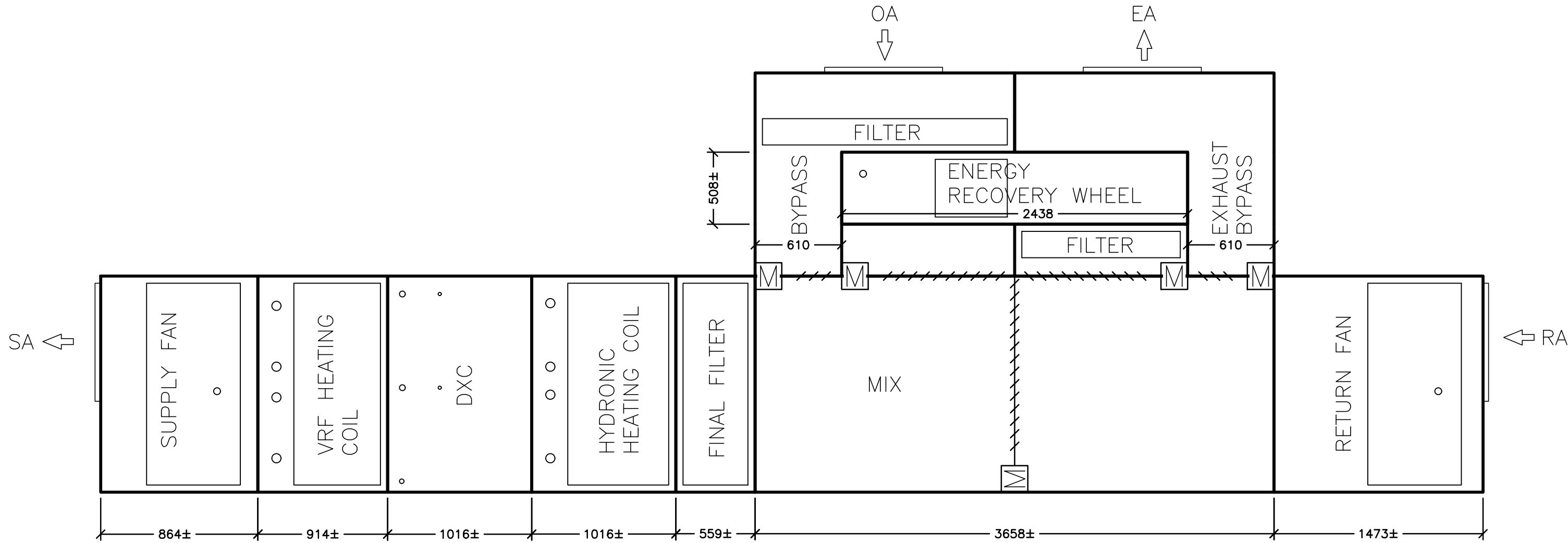
SCALE AS NOTED	DRAWING NUMBER M1.1
SHEET SIZE 24x36	
PROJECT NUMBER	

PLUMBING FIXTURE SCHEDULE (PHASE 1)

Item	Type	Connection Sizes				Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim		Acceptable Manufacturer	Accessories	
		HW	CW	TW	Drain				Vent	Trim Description		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 Z826B1-6F 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-TMV	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					



PLAN VIEW



ELEVATION VIEW

HVAC-5 UNIT DETAIL
SCALE: N.T.S.

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

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.

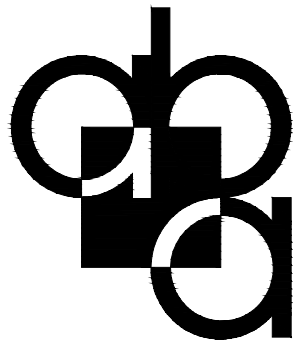
No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT & TENDER	2025.03.05
3	ISSUED FOR ADDENDUM 1	2025.03.20



CHRONOLOGY	DATE

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

55 Northland Road,
Waterloo, ON, N2V 2Y8
Phone: 519-755-3555
Website: deiassociates.ca
Project Number: 24162



CLIENT

WATERLOO REGION DISTRICT SCHOOL BOARD

PROJECT NAME

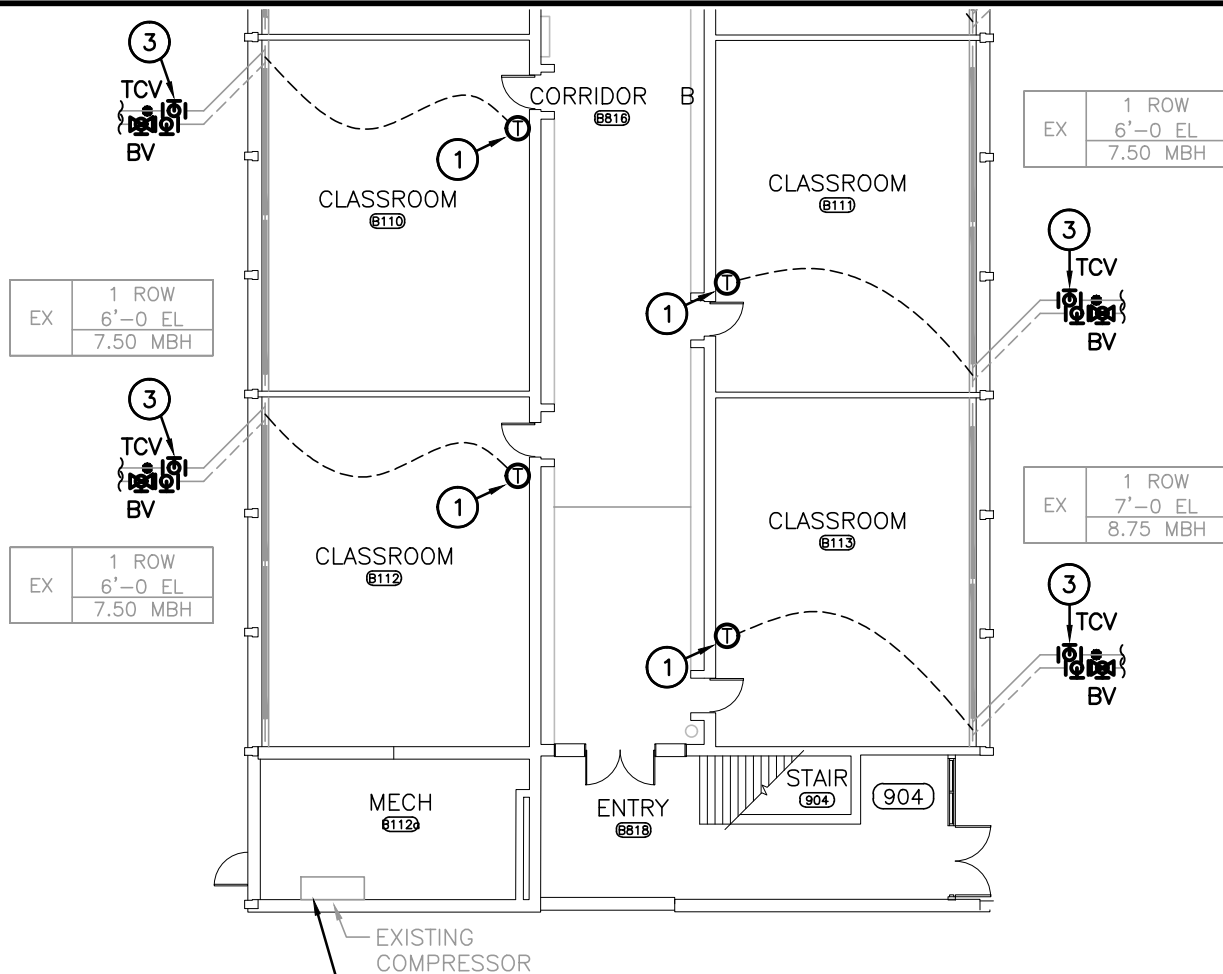
GLENVIEW PARK SECONDARY SCHOOL
55 McKay Street Cambridge, Ontario

DRAWING TITLE

SCHEDULES

SCALE: AS NOTED
SHEET SIZE: 24x36
PROJECT NUMBER

DRAWING NUMBER: **M1.2**



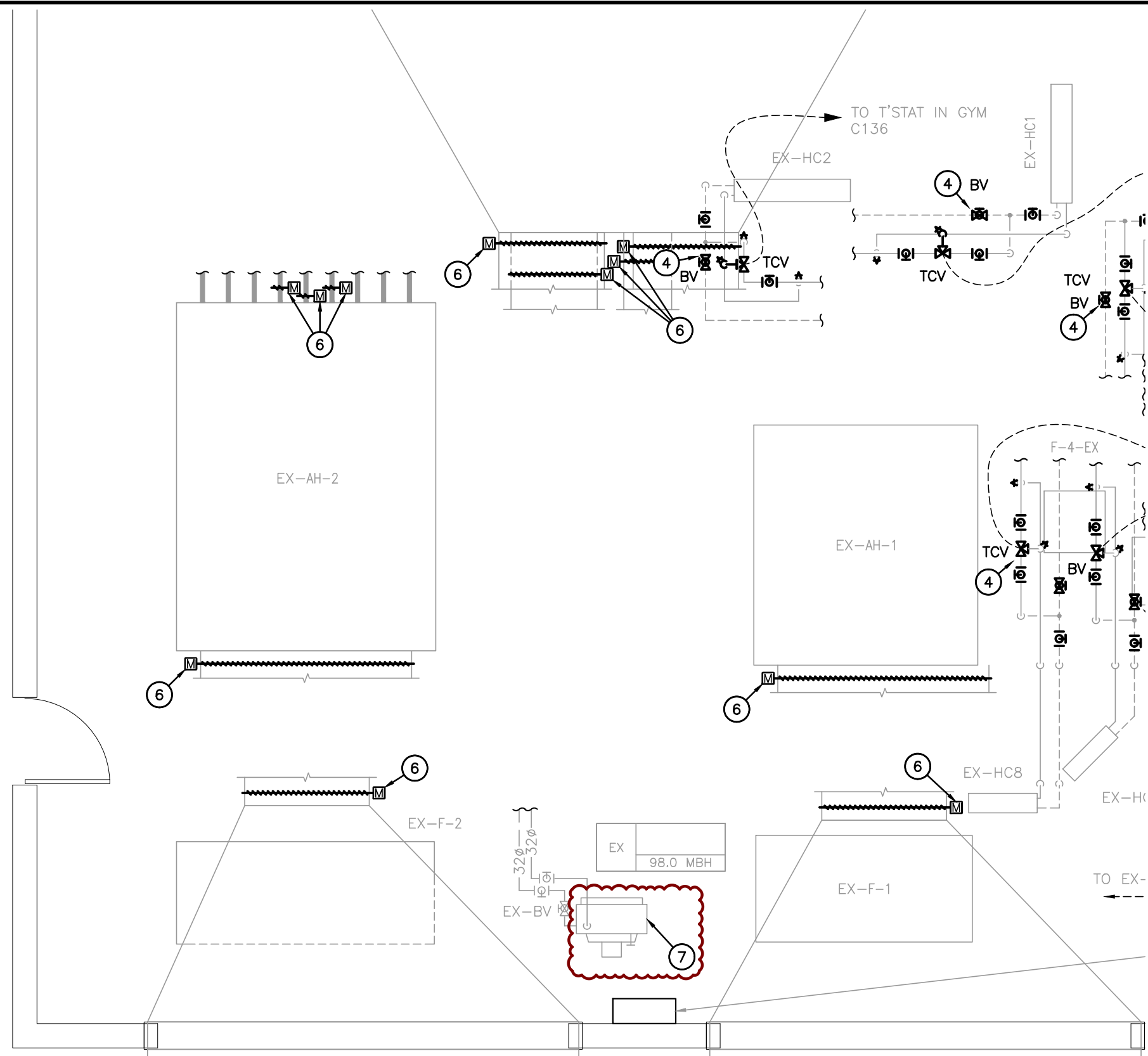
CONTRACTOR TO CONFIRM EXISTING COMPRESSOR NO LONGER SERVES ANY EQUIPMENT FOLLOWING PNEUMATIC DEMOLITION WORK. UPON CONFIRMATION, CO-ORDINATE WITH OWNER TO REMOVE EXISTING COMPRESSOR/PNEUMATIC TUBING COMPLETE.

IDENTIFIED PRICE WORK

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

SPECIFIC DEMO/RENO NOTES

1. 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.
2. 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.
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/ NEW DDC CONTROL VALVE(S). NEW TCV(S) TO BE SUPPLIED BY BAS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
5. EXISTING RADIATION CABINET, PIPING & WALLFIN TO BE CUT & REMOVED BEYOND COMPLETE. PROVIDE NEW END TRIM TO MATCH EXISTING CABINET HEIGHT.
6. EXISTING PNEUMATIC MOTORIZED DAMPER ACTUATOR TO BE REMOVED COMPLETE. PROVIDE NEW DDC ACTATOR.
7. EXISTING UNIT HEATER TO BE INTEGRATED TO BAS. ALL EXISTING CONTROLS, ACTUATORS, AND SENSORS TO BE REPLACED COMPLETE.



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



**PROJECT
NORTH**

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55 Northland Road,
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Phone: 519-745-3555
Website: deiassociates.ca
Project Number 2112

Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC



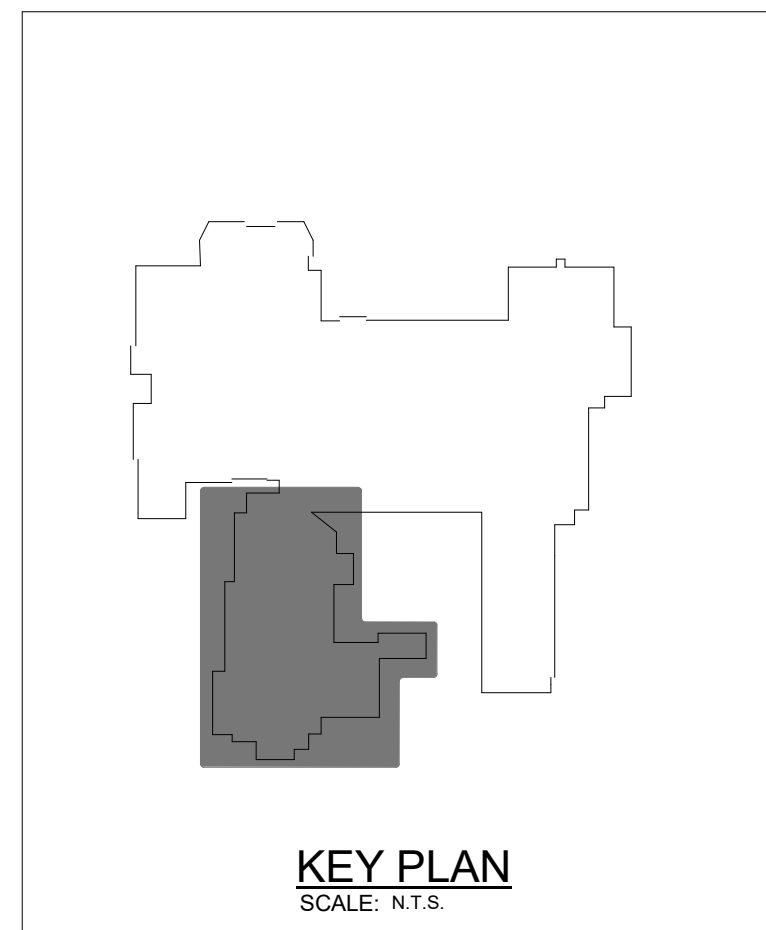
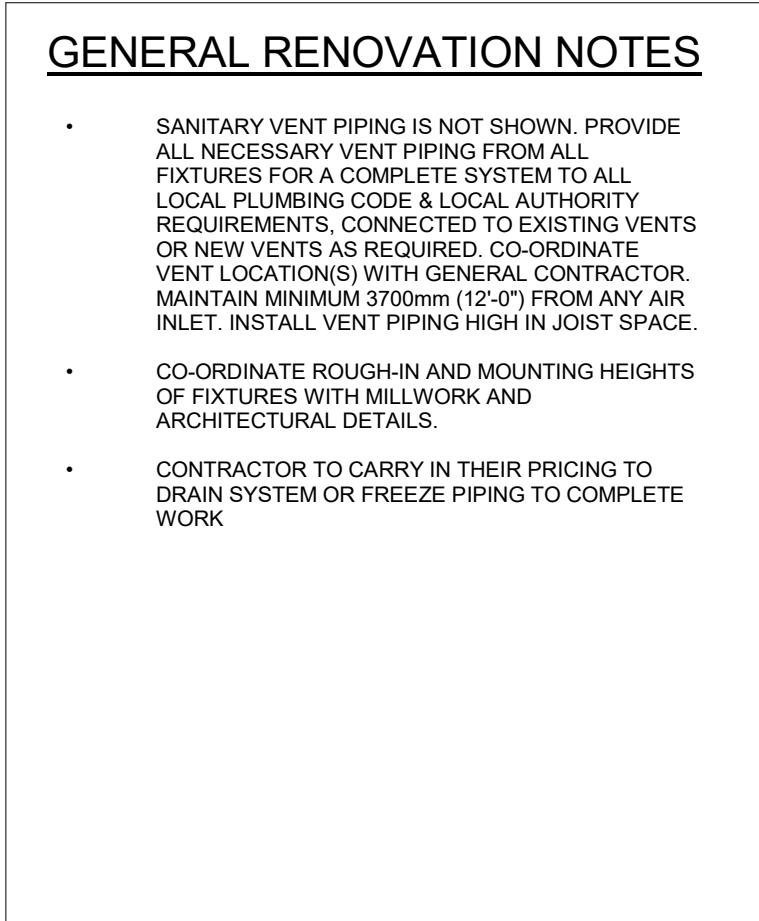
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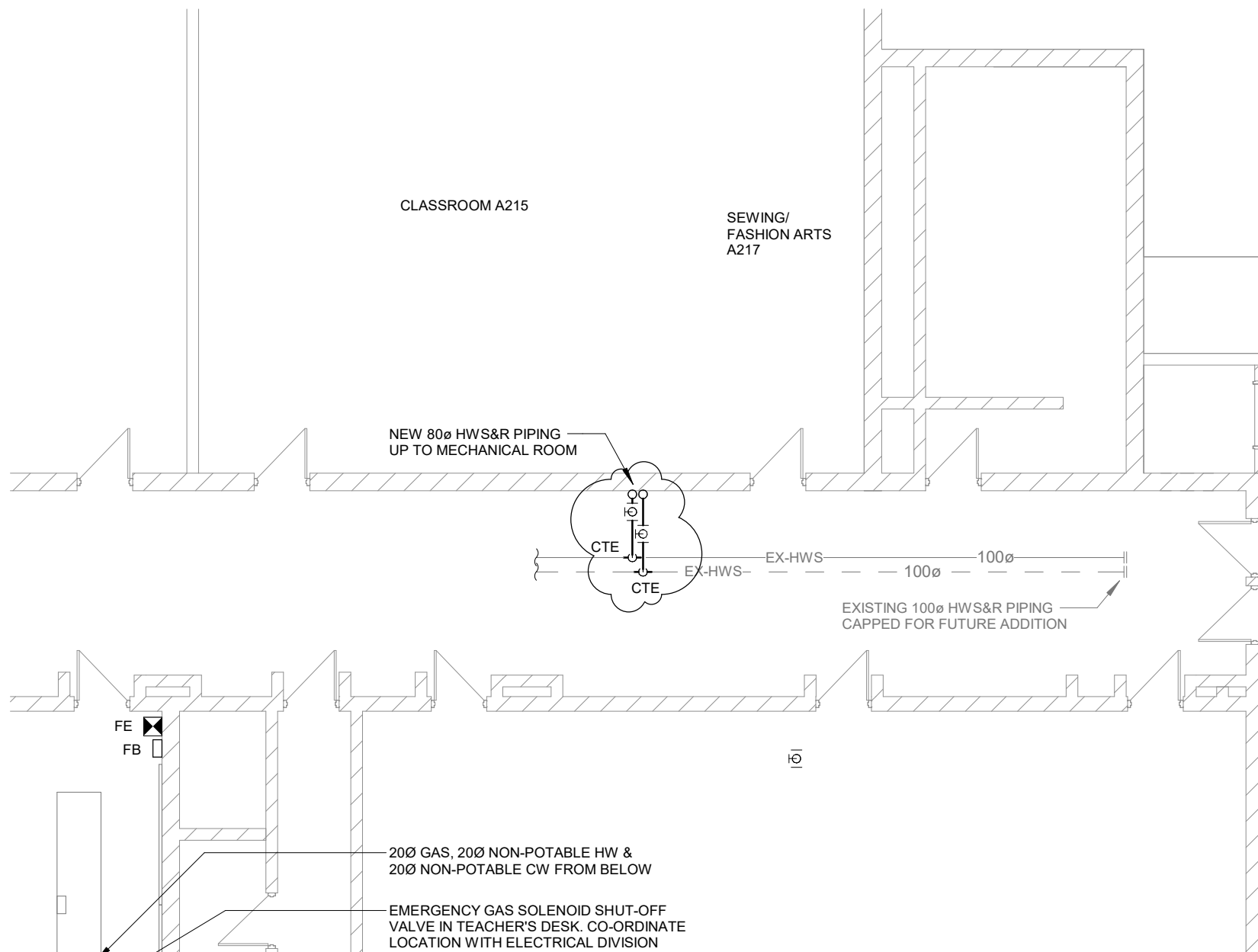
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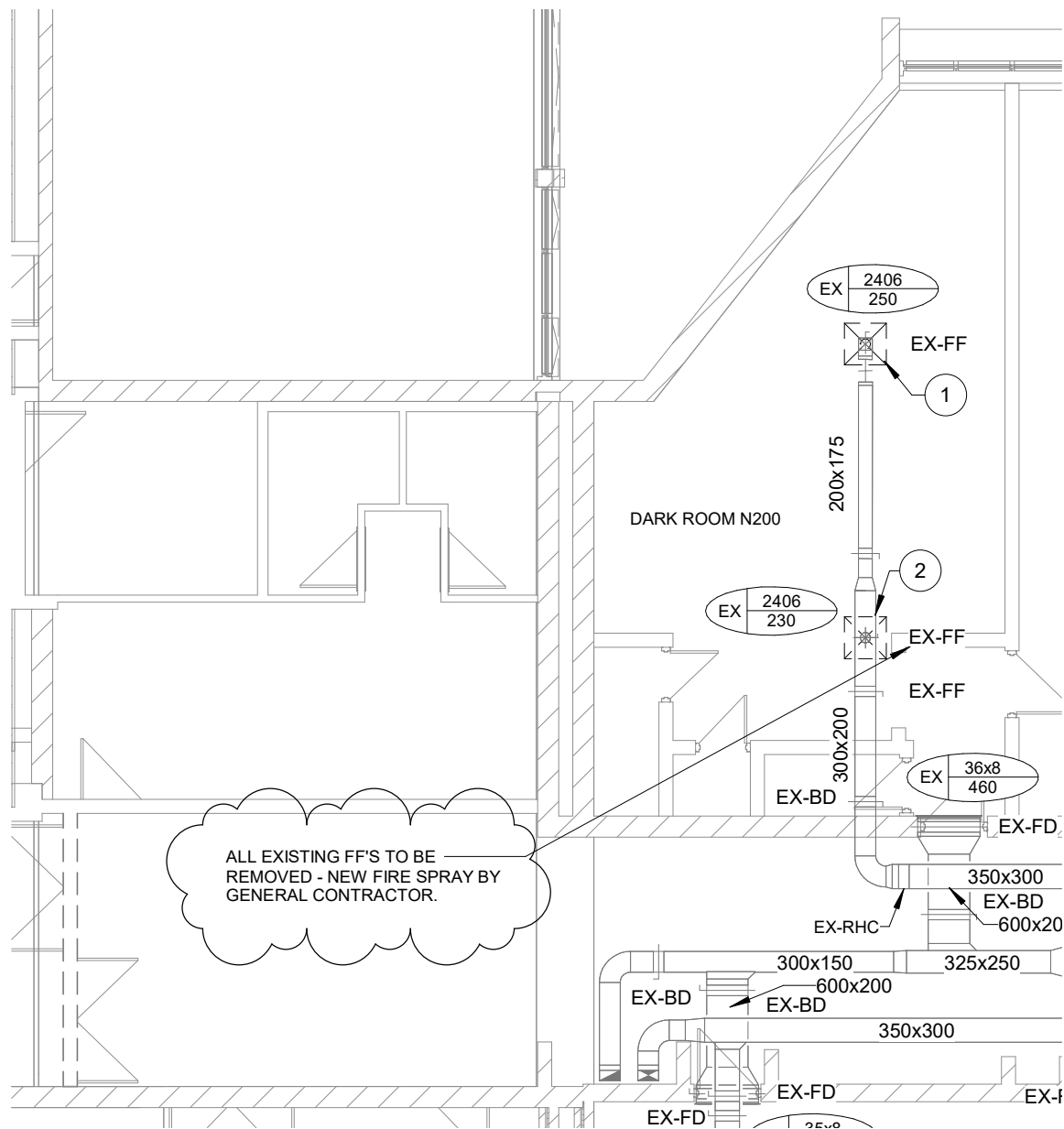
Glenview Park SS -
Science/Elevator Renovation

55 McKay St. Cambridge, ON N1R 4G8

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







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.

- 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 SHALL BE PATCHED WITH MATERIALS OF EQUAL OR BETTER QUALITY THAN THE ORIGINAL 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 SYSTEMS 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 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.

DELETED



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Waterloo, ON, N2V 1Y8
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Website: deiassociates.ca
Project Number: 2102

Consulting Engineers

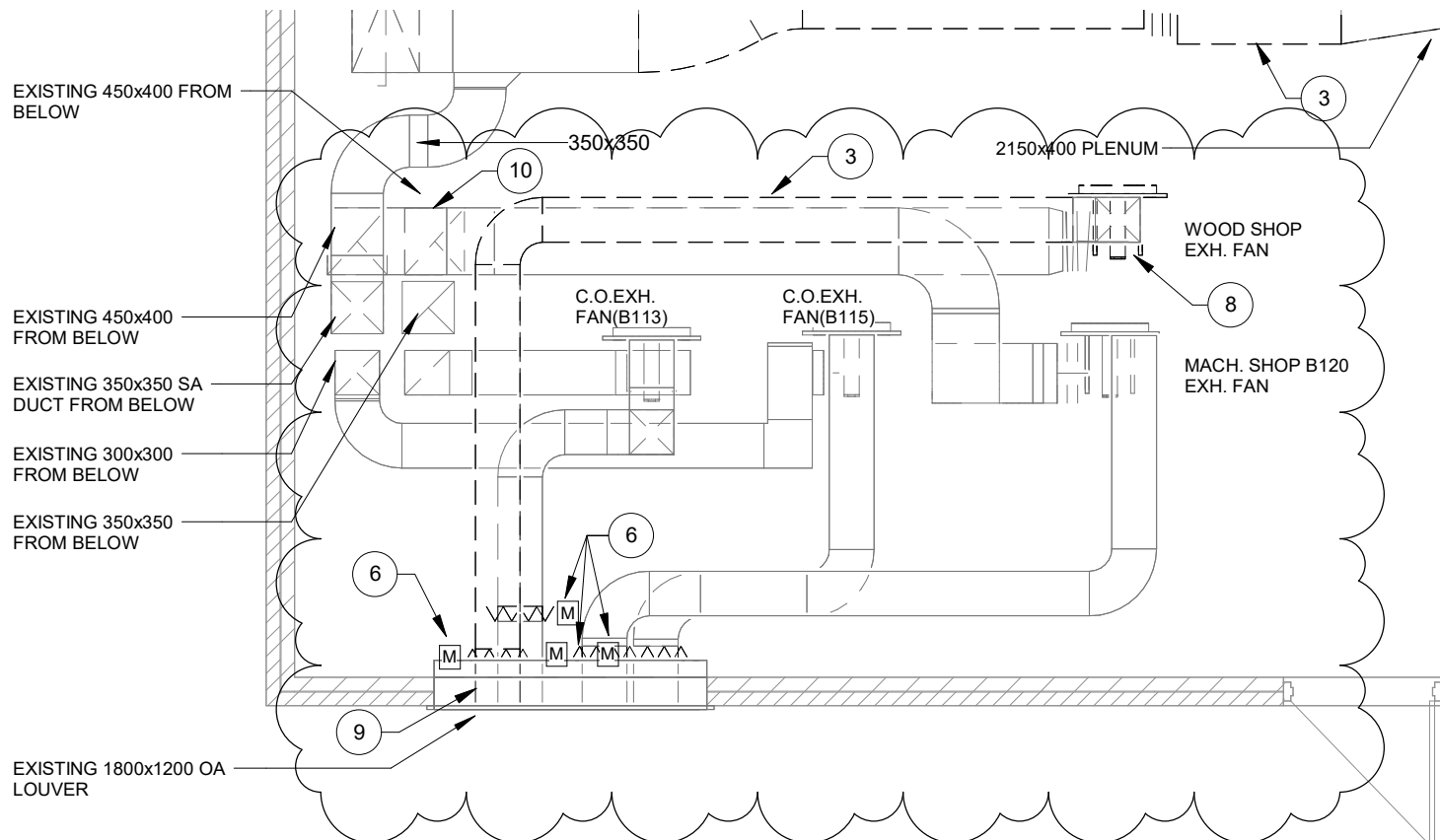
MECHANICAL | ELECTRICAL | AQUATIC



Glenview Park SS -
Science/Elevator Reno

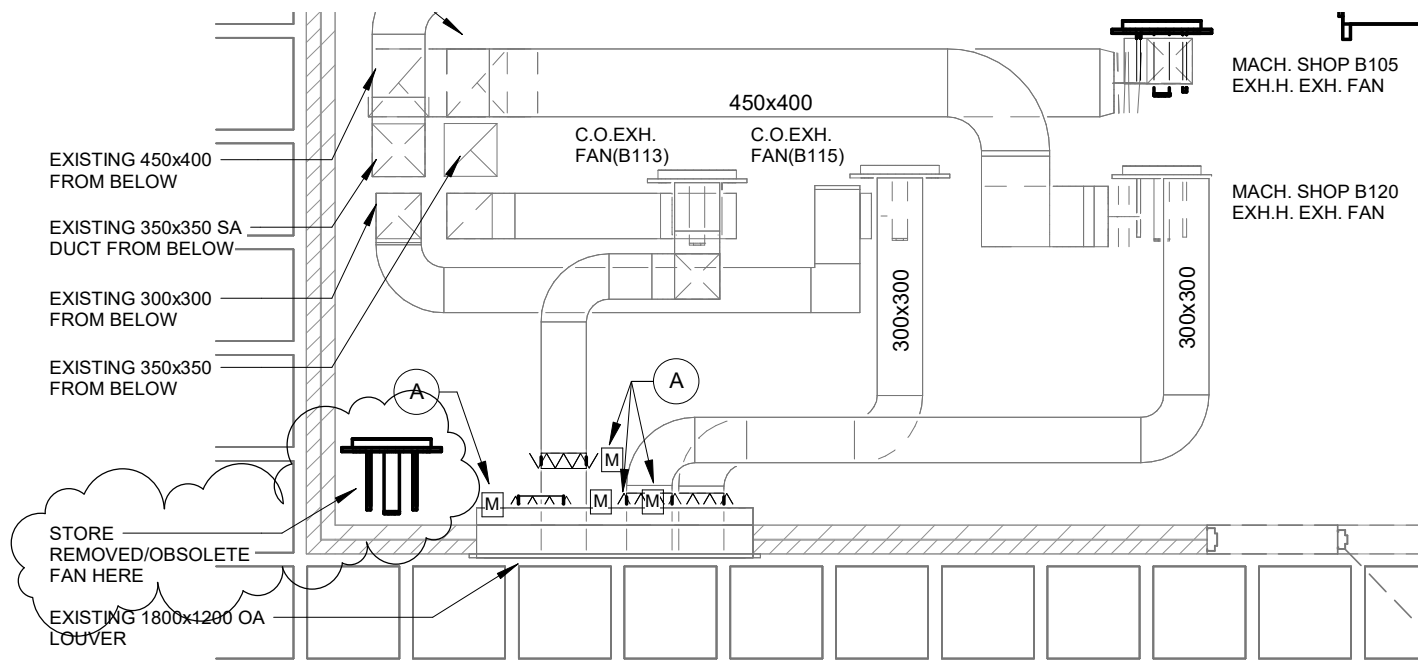
MECH ROOM - PIPING
& DRAINAGE
DEMO/RENO(PHASE 2)

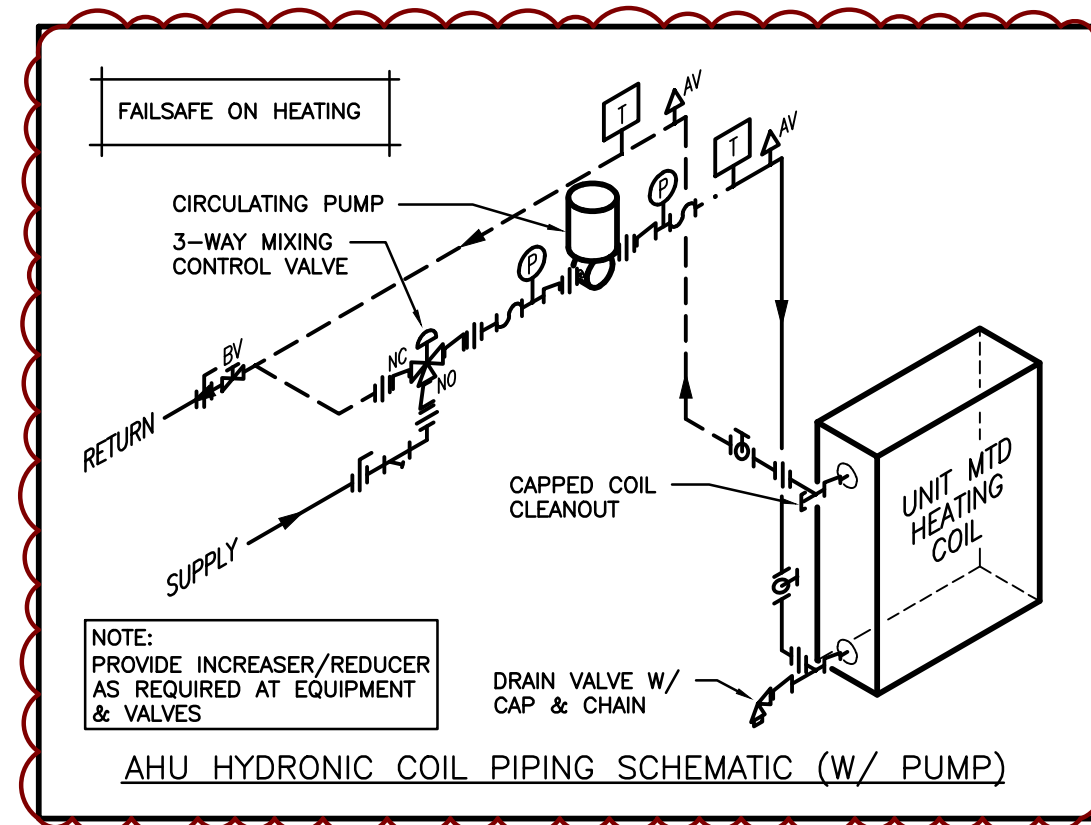
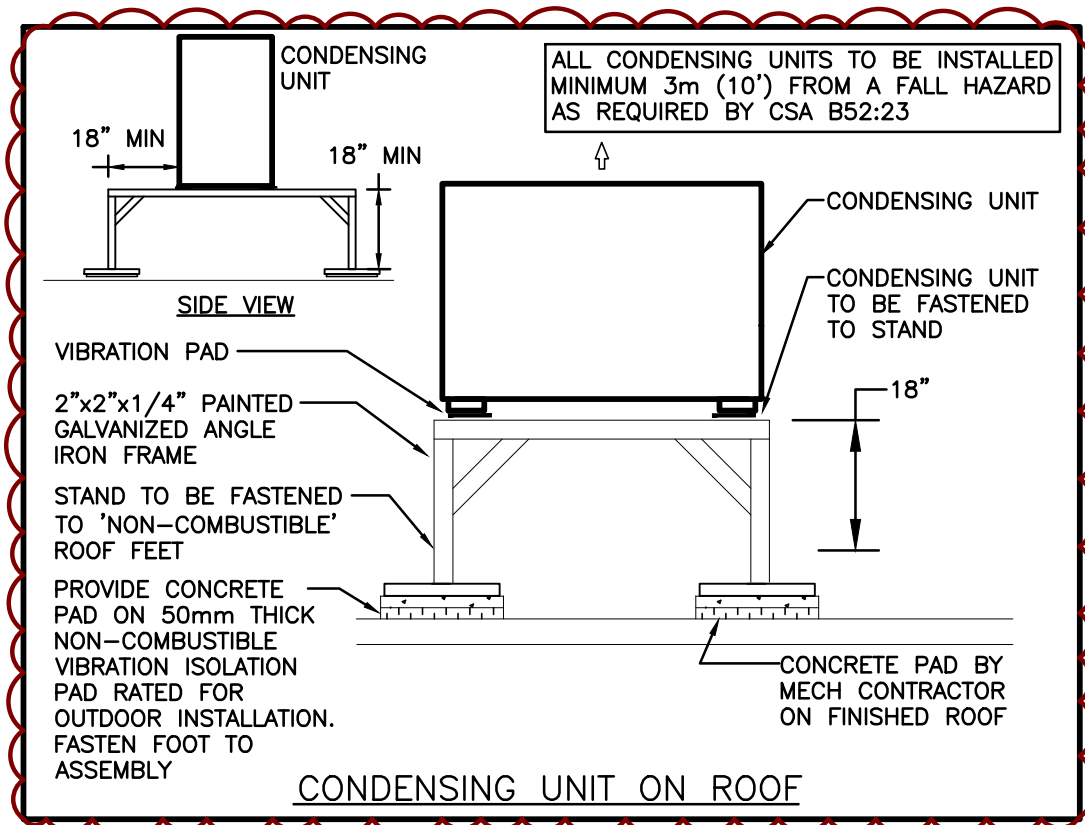
M6.1



TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION.

8. EXISTING OBSOLETE EXHAUST FAN TO BE REMOVED COMPLETE AND STORED 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 FLOOR OPENING INFILL WITH GENERAL CONTRACTOR.





Part 1 General

1.1 SHOP DRAWINGS AND PRODUCT DATA

- .1 Submit shop drawings in accordance with Electrical General Requirements Section.
- .2 Indicate:
 - .1 Mounting method and dimensions.
 - .2 Starter/contacter size and type.
 - .3 Layout of identified internal and front panel components.
 - .4 Enclosure types.
 - .5 Wiring diagram for each type of starter.
 - .6 Interconnection diagrams.

1.2 OPERATION AND MAINTENANCE DATA

- .1 Provide operation and maintenance data for incorporation into manual specified in Electrical General Requirements Section.
- .2 Include operation and maintenance data for each type and style of starter/contacter.

1.3 MAINTENANCE MATERIALS

- .1 Provide maintenance materials in accordance with Electrical General Requirements Section.
- .2 Provide listed spare parts for each different size and type of starter:
 - .1 1 operating coil.
 - .2 3 fuses.
 - .3 10% indicating lamp bulbs used.

Part 2 Products

2.1 MATERIALS

- .1 Starters: must conform to CSAC22.2 No. 14 (latest edition) and EEMAC E14-1.
- .2 Control transformers must conform to CSAC22.2 No. 66 (latest edition).
- .3 Auto-transformers must conform to CSAC22.2 No 47 (latest edition).
- .4 Contactors must conform to CSA C22.2 No. 14 (latest edition).
- .5 Half size starters will not be accepted. NEMA and IEC rated starters are acceptable.

2.2 MANUAL MOTOR STARTERS

- .1 Single and Three phase manual motor starters of size, type, rating, and enclosure type as indicated, with components as follows:

- .1 Switching mechanism, quick make and break.
- .2 One or Three overload heaters, manual reset, trip indicating handle.
- .3 Toggle switch: standard duty labeled "on"/"off".
- .4 Indicating light: standard duty type and red colour.
- .5 Locking tab to permit padlocking in "ON" or "OFF" position.

2.3 FULL VOLTAGE MAGNETIC STARTERS

- .1 Magnetic and combination magnetic starters of size, type, rating and enclosure type as indicated with components as follows:
 - .1 Contactor solenoid operated, rapid action type.
 - .2 Motor overload protective device in each phase, manually reset from outside enclosure.
 - .3 Wiring and schematic diagram inside starter enclosure in visible location.
 - .4 Identify each wire and terminal for external connections, within starter, with permanent number marking identical to diagram.
- .2 Combination type starters to include fused disconnect switch with operating lever on outside of enclosure to control disconnect, and provision for:
 - .1 Locking in "OFF" position with up to 3 padlocks.
 - .2 Independent locking of enclosure door.
 - .3 Provision for preventing switching to "ON" position while enclosure door open.
- .3 Accessories:
 - .1 Pushbuttons Selector switches standard duty labeled as indicated.
 - .2 Indicating lights: standard duty type and color as indicated.
 - .3 1-N/O and 1-N/C spare auxiliary contacts unless otherwise indicated.
 - .4 1 red pilot light for "stop" or "off" and 1 green light for "start" or "on". – ADD01

2.4 CONTROL TRANSFORMER

- .1 Single phase, dry type, control transformer with primary voltage as indicated and secondary voltage to suit remote control device, complete with secondary fuse, installed in with starter as indicated.
- .2 Size control transformer for control circuit load plus 20% spare capacity.

2.5 CONTACTORS

- .1 Electrically held and controlled by pilot devices as indicated and rated for type of load controlled.
- .2 Complete with 2 normally open and 2 normally closed auxiliary contacts unless indicated otherwise.
- .3 Mount in CSA Enclosure 1 unless otherwise indicated.
- .4 Include following options in cover:

- .1 Red indicating lamp.
- .2 Hand - Off - Auto selector switch.
- .5 Control transformer: mounted in contactor enclosure.
- .6 Contactors must be definite purpose.

2.6 FINISHES

- .1 Apply finishes to enclosure in accordance with Electrical General Requirements Section.

2.7 EQUIPMENT IDENTIFICATION

- .1 Provide equipment identification in accordance with Electrical General Requirements Section.
- .2 Manual starter designation label: black plate, white letters, size 1, engraved as indicated.
- .3 Magnetic starter designation label: black plate, white letters, size 2, engraved as indicated.
- .4 Contactor designation label:
black plate, white letters, size 4, indicating name of load controlled.

2.8 ACCEPTABLE MANUFACTURERS

- .1 The acceptable manufacturers are as follows:
 - .1 Allen Bradley
 - .2 Eaton
 - .3 Siemens
 - .4 Group Schneider
 - .5 Klockner Moeller

Part 3 Execution

3.1 INSTALLATION

- .1 Install starters, connect power and control as indicated.
- .2 Ensure correct fuses and overload devices elements installed.

3.2 FIELD QUALITY CONTROL

- .1 Perform tests in accordance with Electrical General Requirements Section.
- .2 Operate switches, contactors to verify correct functioning.
- .3 Perform starting and stopping sequences of contactors and relays.
- .4 Check that sequence controls, interlocking with other separate related starters, equipment, control devices, operate as indicated.

- .5 Install contactors and connect auxiliary control devices.

END OF SECTION



EQUIPMENT WIRING SCHEDULE

E = ELECTRICAL
M = MECHANICAL
O = OTHERS

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

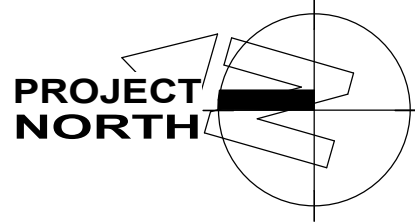
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

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

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CHRONOLOGY	DATE



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PROJECT NAME

GLENVIEW PARK SECONDARY SCHOOL HVAC IMPROVEMENTS

55 McKay St., Cambridge, ON, N1R 4G8

DRAWING TITLE

EQUIPMENT WIRING SCHEDULE

SCALE	DRAWING NUMBER E103
SHEET SIZE 24X36	
PROJECT NUMBER 24162	

NOTES: CIRCUIT LABELS

PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCH, LIGHTING CONTROL STATION, AND RECEPTACLE DEVICE FACEPLATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

GENERAL NOTES - RENOVATION

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC NOTES

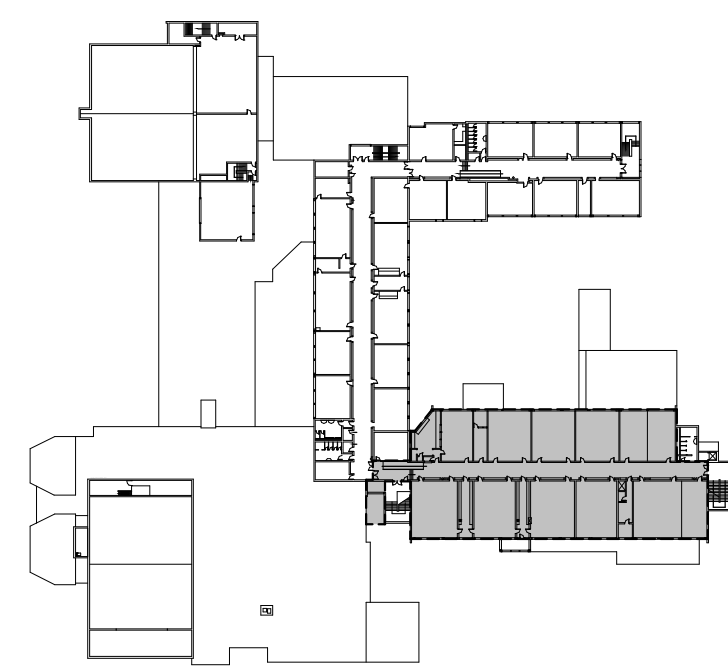
- 1 UTILIZE EXISTING LOCAL LIGHTING CIRCUIT MADE AVAILABLE FROM DEMOLITION FOR AREA NOTED AND CONNECT TO NEW LIGHT FIXTURE(S) AND CONTROLS AS SHOWN FOR A COMPLETE WORKING SYSTEM.
- 2 INDICATES EXISTING FIRE ALARM DEVICE IN RELOCATED POSITION. REWORK AND EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED TO SUIT REVISED LOCATION. EXISTING DEVICE SHALL BE RE-VERIFIED IN CONFORMANCE WITH CANULC-S537 "VERIFICATION OF FIRE ALARM SYSTEMS" TO ENSURE SATISFACTORY OPERATION.
- 3 ALL EXISTING DEVICES ON CEILINGS WITHIN AREA SHOWN SHALL BE REINSTALLED TO ACCOMMODATE NEW CEILINGS AND FIXTURES. REWORK/EXTEND EXISTING WIRING MADE AVAILABLE DURING REMOVAL AS REQUIRED TO SUIT.
- 4 INDICATES DIGITAL ROOM CONTROLLER TO BE INSTALLED IN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED OCCUPANCY SENSORS. REFER TO LIGHTING CONTROL DETAILS.
- 5 UTILIZE EXISTING BACKBOXES MADE AVAILABLE FROM DEMOLITION AND PROVIDE DIMMING WALL STATION(S) AS SHOWN FOR CONTROL OF LIGHTING GROUPS AS INDICATED. PROVIDE BLANK COVERPLATE FOR INACTIVE / REDUNDANT SWITCHES.
- 6 INDICATES DIGITAL ROOM CONTROLLER TO BE INSTALLED IN ACCESSIBLE CEILING SPACE FOR CONTROL OF LIGHTING FIXTURES. REFER TO LIGHTING CONTROL DETAILS.
- 7 PROVIDE NEW DIGITAL LIGHTING SWITCHES SHOWN C/W WIREMOLD TO CEILING TO CONCEAL CONTROL WIRING. REFER TO LIGHTING CONTROL DETAILS AND TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

SPECIFIC NOTES

- 8 INDICATED DETECTOR C/W RELAY BASE FOR RELEASE OF ELECTROMAGNETIC DOOR HOLDER AS SHOWN. LOCATE DETECTOR WITHIN 1.5m AND CENTRE ON DOOR(S) BEING HELD OPEN. WHEN INDICATED DEVICE IS IN ALARM, THE ASSOCIATED RELAY IN THE DEVICE BASE IS CLOSE AND CAUSE ASSOCIATED DOOR HOLDS TO RELEASE. THROUGH PROGRAMMING, WHEN INDICATED DEVICE IS IN ALARM, THE ASSOCIATED RELAY FROM THE FIRE ALARM PANEL ON GENERAL ALARM SHALL CASE DOOR HOLDS TO RELEASE.
- 9 INDICATES MAGNETIC HOLD OPEN DEVICE PROVIDED AS PART OF THIS SCOPE OF WORK WHICH SHALL BE RELEASED UPON SIGNAL FROM FIRE ALARM SYSTEM. REFER TO DETAIL HE104, FIRE ALARM RISER DIAGRAM AND TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS. COORDINATE EXACT LOCATION TO INSTALL MAGNETIC HOLD OPEN DEVICE WITH ARCHITECT AND DOOR SWING.
- 10 PROVIDE 120V 15A HARDWIRED CONNECTION C/W JUNCTION BOX AND STEP DOWN TRANSFORMER (120V/24V) ABOVE ACCESSIBLE CEILING SPACE AND LOW VOLTAGE WIRING TO MAGNETIC DOOR HOLD OPEN DEVICES. REFER TO DETAIL E/E 102 AND TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
- 11 PROVIDE NEW EMERGENCY BATTERY UNIT SHOWN AND CONNECT TO UNSWITCHED SIDE OF EXISTING LOCAL LIGHTING CIRCUIT.
- 12 REWORK AND EXTEND EXISTING LOCAL EXIT SIGNAGE CIRCUIT AND CONNECT TO NEW EXIT SIGN INDICATED.
- 13 CONNECT NEW FIRE ALARM DEVICE INDICATED TO EXISTING LOCAL INITIATING CIRCUIT. RE-VERIFY PORTIONS OF ALARM SYSTEM TO CANULC-S537. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
- 14 CONFIRM EXACT LOCATION OF EXISTING CEILING MOUNT RECEPTACLE BEING RELOCATED ON SITE WITH OWNER. NETWORK AND EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED TO SUIT.
- 15 PROVIDE 120V POWER AND FIRE ALARM CONNECTIONS TO FIRE/SMOKE DAMPER C/W INTEGRAL SMOKE DETECTOR. REFER TO FIRE ALARM SPECIFICATIONS AND TO RISER DIAGRAM FOR FURTHER DETAILS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

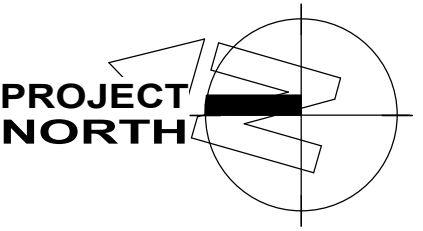


LEVEL 2 - SCIENCE WING - ELECTRICAL - RENOVATION
SCALE: 1 : 100



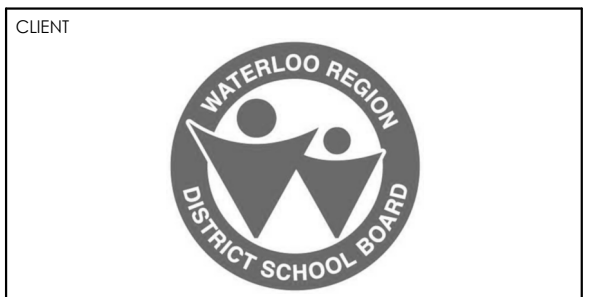
KEY PLAN - LEVEL 2
SCALE: NTS

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The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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No.	REVISIONS	DATE
1	ISSUED FOR 50% PROGRESS	2024.01.14
2	ISSUED FOR 75% REVIEW	2025.01.31
4	ISSUED FOR PERMIT/TENDER	2025.03.05
5	ISSUED FOR ADDENDUM 01	2025.03.20

CHRONOLOGY	DATE
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PROJECT NAME
**GLENVIEW PARK
SECONDARY SCHOOL
HVAC IMPROVEMENTS**
55 McKay St., Cambridge, ON, N1R 4G8

DRAWING TITLE
**LEVEL 2 - SCIENCE
WING - ELECTRICAL
RENOVATION PLAN**

SCALE	DRAWING NUMBER
As indicated	E203
SHEET SIZE	
24X36	
PROJECT NUMBER	24162



- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

INDICATES EXISTING FAN UNIT TO BE REMOVED
COMPLETE BY MECHANICAL CONTRACTOR. ELECTRICAL
CONTRACTOR SHALL REMOVE EXISTING CONDUIT AND
WIRING BACK TO SOURCE PANEL AND MAKE SAFE. MARK
BREAKER AS SPARE.

INDICATES DUCT TYPE SMOKE DETECTOR MOUNTED IN
STRAIGHT SECTION OF SUPPLY DUCT OF MECHANICAL
SYSTEM. CONTRACTOR TO REMOVE DETECTOR AND
PROPOSED DUCT LOCATIONS AND FURTHER DETAILS.
2. COORDINATE EXACT LOCATION TO INSTALL DUCT SMOKE
DETECTOR WITH DUCT STRUCTURE AND ACCESSORIES
(ELECTRICALS) FOR SUITABLE RUN, CONFIRM LOCAL
DETAILS AND REQUIREMENTS WITH THE FIRE ALARM
MANUFACTURER AND MECHANICAL CONTRACTOR.

CONNECT NEW FIRE ALARM INITIATING DEVICE TO
EXISTING LOCAL INITIATING CIRCUIT-RE-VERIFY
OPERATION OF SYSTEM. SEE SECTION 05310
FOR SPECIFICATIONS FOR FURTHER DETAILS AND
REQUIREMENTS.

INDICATES EXISTING EXHAUST FAN DISCONNECT SWITCH
TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
4. CONTRACTOR TO EXISTING FAN PAN AND DETAILS WITH
MECHANICAL CONTRACTOR.

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PROJECT NAME

GLENVIEW PARK SECONDARY SCHOOL HVAC IMPROVEMENTS

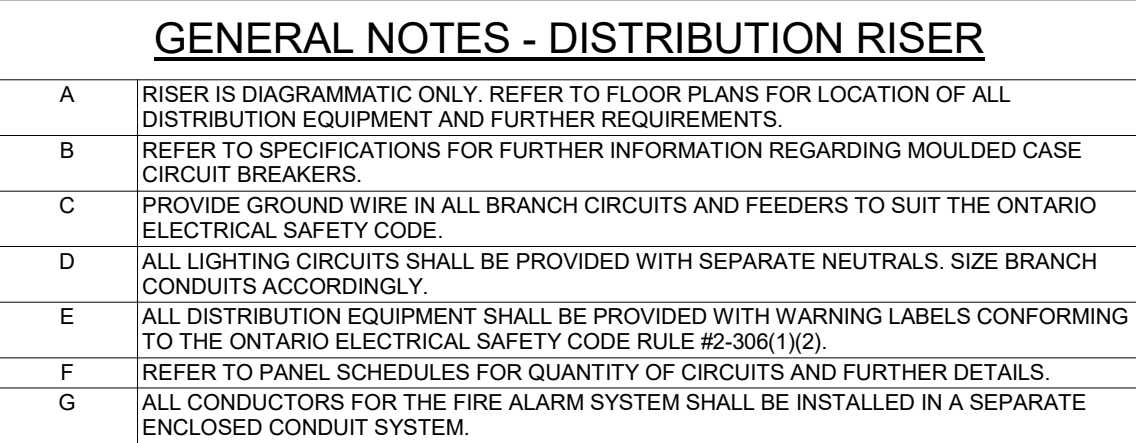
55 McKay St., Cambridge, ON, N1R 4G8

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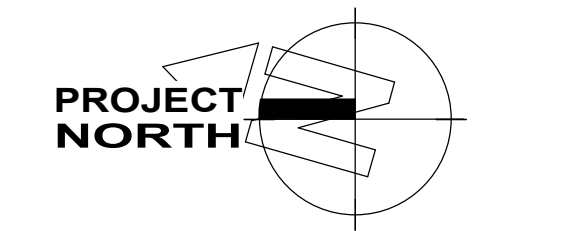
ENLARGED PLANS (4
OF 4)

SCALE 1 : 50	DRAWING NUMBER E304
SHEET SIZE 24X36	
PROJECT NUMBER 24162	





SPECIFIC NOTES	
	PROVIDE NEW BREAKER INDICATED CW NEW REQUIRED MOUNTING HARDWARE TO ACCOMMODATE WIRE SIZE INDICATED. PROCURE FOR THE SERVICES OF SCHNEIDER SERVICES GROUP TO FURNISH, MOUNT AND RECEPTIFY PANEL BUS AS REQUIRED TO FACILITATE INSTALLATION OF NEW BREAKER PROVIDED AS PART OF THIS SCOPE OF WORK.
2	NOT USED.
3	CONNECTIONS TO THE LINE SIDE OF ELEVATOR CONTROL PANEL SHALL BE UNDER THE DIRECTION AND GUIDANCE OF THE ELEVATOR CONTRACTOR. CONFIRM ALL POWER, DISCONNECT SWITCH AND CONTROL WIRING REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO PROCURING AND INSTALLING ELECTRICAL REQUIREMENTS.
4	DISCONNECT SWITCH INDICATED FOR ELEVATOR CONTROL PANEL MUST BE LOCKABLE (I.E. EQUIPPED WITH MECHANICAL LOCKS). PROVIDE TWO (2) SETS OF ELEVATOR RATED AUXILIARY CONTACTS TO SUIT THE ELEVATOR CONTRACTOR. COORDINATE EXACT LOCATION TO MOUNT DISCONNECT SWITCH ON SITE WITH ELEVATOR CONTRACTOR.
5	NOT USED.
6	NOT USED.
7	PROVIDE NEW 60A-3P FUSES IN EXISTING 60A-3P FUSIBLE DISCONNECT SWITCH INDICATED.
8	CONTRACTOR SHALL SWING OVER TEN (10) EXISTING CIRCUITS AS REQUIRED FROM PANEL PP-PV TO NEW PANEL PV PROVIDED AS PART OF THIS SCOPE OF WORK TO MAINTAIN EXISTING SERVICES. REFER TO RENOVATION PLAN FOR LOCATION OF NEW PANEL. EXISTING TO REMAIN SERVICES TO BE IDENTIFIED DURING CONSTRUCTION AND ARE NOT SHOWN ON THE DRAWINGS. PROVIDE NEW BREAKERS AND EXTEND EXISTING CONDUIT AND WIRE FEEDING EXISTING BRANCH DEVICES AND TIE INTO RESPECTIVE CIRCUITS RELOCATED TO NEW PANEL PS.
9	CONTRACTOR SHALL SWING OVER TEN (10) EXISTING CIRCUITS AS REQUIRED FROM PANEL PP-PS TO NEW PANEL PS PROVIDED AS PART OF THIS SCOPE OF WORK TO MAINTAIN EXISTING SERVICES. REFER TO RENOVATION PLAN FOR LOCATION OF NEW PANEL. EXISTING TO REMAIN SERVICES TO BE IDENTIFIED DURING CONSTRUCTION AND ARE NOT SHOWN ON THE DRAWINGS. PROVIDE NEW BREAKERS AND EXTEND EXISTING CONDUIT AND WIRE FEEDING EXISTING BRANCH DEVICES AND TIE INTO RESPECTIVE CIRCUITS RELOCATED TO NEW PANEL PS.
10	INDICATES RECEPTACLE PANEL - 120/208V, 3PH/4W, 100A MAINS, 10KALC
11	INDICATES 208V 3 PHASE 200A DISCONNECT SWITCH CW 150A CLASS D FUSES.
12	INDICATES RECEPTACLE PANEL - 120/208V, 3PH/4W, 252A MAINS, 25KALC
13	INDICATES PREPARED SPACE FOR FUTURE BREAKER. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND ACCESSORIES.

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Project Number: 2012

Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC



PROJECT NAME

GLENVIEW PARK
SECONDARY SCHOOL
HVAC IMPROVEMENTS

55 McKay St., Cambridge, ON, N1R 4G8

DISTRIBUTION RISER DIAGRAM - RENOVATION

SCALE 1 : 1	DRAWING NUMBER E401
SHEET SIZE 24X36	
PROJECT NUMBER 24162	

PANEL E				VOLTAGE: 120/208V 3PH4W				INTERRUPTING CAPACITY: 25 kAIC				
MAINS: 225 A				NEUTRAL BUS: 100%				ENCLOSURE: TYPE 2				
MOUNTING: SURFACE												
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	ELEV. MACHINE RM LIGHTING		15 A	1				1	15 A		ELEVATOR PIT LIGHTING	2
3	ELEV MACHINE RM RECEPTACLE		20 A	1				1	20 A		ELEVATOR PIT / SHAFT RECEPTACLES	4
5	CONDENSING UNIT (CU-3)		30 A	2				1	15 A		ELEVATOR CAB LIGHTING	6
7								1	15 A		ELEVATOR CAB COMMUNICATION	8
9	ROOF MAINTENANCE RECEPTACLE		20 A	1				1	15 A		TANK COOLER	10
11	SUMP PUMP CONTROL PANEL		15 A	1								12
13	SUMP PUMP ALARM RECEPTACLE		15 A	1				3	15 A		SUMP PUMP (SP-1)	14
15	DOOR OPERATOR LEVEL 1 STAIR		15 A	1								16
17	DOOR HOLD OPEN		15 A	1				1	20 A		NEUTRALIZING TANK RECEPTACLE A118	18
19	FIRE SMOKE DAMPER - RM A205		15 A	1								20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37	SPARE	--	15 A	1				1	20 A	--	SPARE	38
39	SPARE	--	15 A	1				1	20 A	--	SPARE	40
41	SPARE	--	15 A	1				1	20 A	--	SPARE	42

PANEL PS																			
MAINS: 100 A					VOLTAGE: 120/208V 3PH4W					INTERRUPTING CAPACITY: 10 kA/C									
MOUNTING: SURFACE					NEUTRAL BUS: 100%					ENCLOSURE: TYPE 2									
CKT	Load Name				Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name				CKT	
1	WORKBENCH RECEPTACLES					20 A	1				1	20 A		WORKBENCH RECEPTACLES				2	
3	WORKBENCH RECEPTACLES					20 A	1				1	20 A		WORKBENCH RECEPTACLES				4	
5	WORKBENCH RECEPTACLES					20 A	1				1	20 A		WORKBENCH RECEPTACLES				6	
7	WORKBENCH RECEPTACLES					20 A	1				1	20 A		WORKBENCH RECEPTACLES				8	
9	WALL RECEPTACLES					15 A	1				1	15 A		GAS SOLENOID VALVE				10	
11	CEILING RECEPTACLE					15 A	1				1	15 A		BAS PANEL				12	
13	EXISTING BRANCH CIRCUIT				--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT				14	
15	EXISTING BRANCH CIRCUIT				--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT				16	
17	EXISTING BRANCH CIRCUIT				--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT				18	
19	EXISTING BRANCH CIRCUIT				--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT				20	
21	EXISTING BRANCH CIRCUIT				--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT				22	
23	FIRE SMOKE DAMPER					15 A	1				1	15 A	--	SPARE				24	
25	SPARE				--	20 A	1				1	15 A	--	SPARE				26	
27	SPARE				--	20 A	1				1	15 A	--	SPARE				28	
29	SPARE				--	20 A	1				1	15 A	--	SPARE				30	

Mains: 100 A			VOLTAGE: 120/208V 3PH4W					INTERRUPTING CAPACITY: 10 kAIC				
MOUNTING: SURFACE			NEUTRAL BUS: 100%					ENCLOSURE: TYPE 2				
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	WORKBENCH RECEPTACLES		20 A	1				1	20 A		WORKBENCH RECEPTACLES	2
3	WORKBENCH RECEPTACLES		20 A	1				1	20 A		WORKBENCH RECEPTACLES	4
5	WORKBENCH RECEPTACLES		20 A	1				1	20 A		WORKBENCH RECEPTACLES	6
7	WORKBENCH RECEPTACLES		20 A	1				1	20 A		WORKBENCH RECEPTACLES	8
9	WORKBENCH RECEPTACLES		20 A	1				1	20 A		WORKBENCH RECEPTACLES	10
11	WALL RECEPTACLES		15 A	1				1	15 A		CEILING RECEPTACLE	12
13	GAS SOLENOID VALVE		15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT	14
15	EXISTING BRANCH CIRCUIT	--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT	16
17	EXISTING BRANCH CIRCUIT	--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT	18
19	EXISTING BRANCH CIRCUIT	--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT	20
21	EXISTING BRANCH CIRCUIT	--	15 A	1				1	15 A	--	EXISTING BRANCH CIRCUIT	22
23	EXISTING BRANCH CIRCUIT	--	15 A	1				1	15 A		FIRE SMOKE DAMPER	24
25	SPARE	--	15 A	1				1	20 A	--	SPARE	26
27	SPARE	--	15 A	1				1	20 A	--	SPARE	28
29	SPARE	--	15 A	1				1	20 A	--	SPARE	30

NOTES:

PANEL MP				MAIN S: 225 A				VOLTAGE: 120/208V 3PH4W				INTERRUPTING CAPACITY: 25 kAIC			
MOUNTING: SURFACE				NEUTRAL BUS: 100%				ENCLOSURE: TYPE 2							
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT			
1												2			
3	BRANCH SELECTOR CU-4A		15 A	2				2	15 A		BRANCH SELECTOR CU-4B	4			
5	ROOF MAINTENANCE RECEPTACLE		20 A	1				1	15 A		ROOF EXHAUST FAN (EF-6)	6			
7	ROOF MAINTENANCE RECEPTACLE		20 A	1				1	15 A		ROOF EXHAUST FAN (EF-5)	8			
9	ROOF MAINTENANCE RECEPTACLE		20 A	1				2	15 A		CONTROL BOX CB	10			
11	HVAC UNIT CONTROLLER (HVAC-S-UC)		15 A	1								12			
13								1	20 A		MECH. ROOM RECEPTACLE	14			
15	HVAC ENERGY RECOVERY WHEEL (HVAC-S-ERW)		15 A	3				1	15 A		ROOF EXHAUST FAN (EF-7)	16			
17								2	15 A			18			
19											CONTROL BOX CB	20			
21	CONTROL BOX CB		15 A	2				2	15 A			22			
23								2	15 A		CONTROL BOX CB	24			
25	CONTROL BOX CB		15 A	2				2	15 A			26			
27											CONTROL BOX CB	28			
29								2	20 A	GFI	MECHANICAL PIPE HEAT TRACING	30			
31												32			
33	MECHANICAL PIPE HEAT TRACING	GFI	20 A	2				3	15 A		HVAC-5 CIRCULATION PUMP (P-10)	34			
35												36			
37												38			
39												40			
41												42			
43												44			
45												46			
47												48			
49												50			
51												52			
53												54			
55												56			
57												58			
59												60			
61												62			
63												64			
65												66			
67	SPARE	--	15 A	1				1	20 A	--	SPARE	68			
69	SPARE	--	15 A	1				1	20 A	--	SPARE	70			
71	SPARE	--	15 A	1				1	20 A	--	SPARE	72			

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CHRONOLOGY	DATE



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PROJECT NAME

GLENVIEW PARK SECONDARY SCHOOL HVAC IMPROVEMENTS

55 McKay St., Cambridge, ON, N1R 4G8

DRAWING TITLE

PANEL SCHEDULES

SCALE

SHEET SIZE

PROJECT NUMBER

24162

DRAWING NUMBER

E402