Addendum # 3
Bid Opportunity: 25-7706-RFT - Glenview Park Secondary School Elevator and Science Laboratory Renovation
Closing Date: Monday, April 7, 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If you have already submitted a Bid / Proposal, it will be automatically withdrawn as a result of this addendum.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.

CLARIFICATION:

Refer to attached Addendum 03 prepared by DEI Consulting Engineering dated April 1, 2025 for all required mechanical and electrical changes.

END OF ADDENDUM

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

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April 1, 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 03

MECHANICAL

Item 1

1.0 Reference Drawing M1.1 and Attached Sketches AD03-M01 and AD03-M02

.1 Revise Custom Indoor Air Handling Unit Schedule (Phase 2), as per attached sketch AD03-M01.

.2 In Custom Indoor Air Handling Unit Schedule (Phase 2), add Haakon as base-bid manufacturer. Daikin shall be listed as an acceptable manufacturer.

.3 In Custom Indoor Air Handling Unit Schedule (Phase 2), add Envent as an acceptable manufacturer.

.4 In Custom Indoor Air Handling Unit Schedule (Phase 2), add Engineered Air as an acceptable manufacturer.

.5 In Pump Schedule, remove requirement for remote variable frequency drive.

.6 In Fan Schedule (Phase 1), revise 'EF-8' as per attached sketch AD03-M02.

Item 2

2.0 Reference Drawing M1.2 and Attached Sketch AD03-M03

.1 Revise HVAC-5 Unit Detail, as per attached sketch AD03-M03. All existing/new services shall be adjusted to suit revised unit layout.

.2 For clarification, maximum HVAC-5 unit dimensions shall be:

.1 Length: 10,150 mm (max.)

.2 Width: 2,925 mm (max.)

.3 Height: 2,000 mm(max.)

.3 For clarification, HVAC-5 to be placed on 100 mm high concrete housekeeping pad. Unit manufacturer to provide unit base rail height to accommodate adequate condensate trap height/clearance.

ELECTRICAL

Item 1

1.0 Reference Attached Reissued Drawing E103

.1 Equipment wiring schedule updated.

Item 2

2.0 Reference Attached Reissued Drawing E304

.1 HVAC supply fan (HVAC-5-SF) has been deleted as per attached reissued drawing E304.

.2 Two HVAC return/exhaust fan (HVAC-5-EF) have been deleted as per attached reissued drawing E304.

.3 HVAC energy recovery wheel (HVAC-ERW) has been deleted as per attached reissued drawing E304.

.4 HVAC unit controller (HVAC-5-UC) has been deleted as per attached reissued drawing E304.

.5 Add 208V 3PH power for indoor HVAC unit (HVAC-5) as per attached reissued drawing E304.

.6 Add 120V 1PH power for marine lights as per attached reissued drawing E304.

Item 3

3.0 Reference Attached Reissued Drawing E401

.1 Update distribution riser diagram as per attached reissued drawing E401.

Item 4

4.0 Reference Attached Reissued Drawing E402

.1 Panel schedule Panel 'MP' updated as per attached reissued drawing E402.

Steve Oatley
Lead Designer, Partner
24162 Addendum 03 (M&E-Various)(reissued dwgs, sketches) Apr 1 25
so/aaa/mpd

CUSTOM INDOOR AIR HANDLING UNIT SCHEDULE (PHASE 2)

Item	Type	Supply Air Fan Data								Exhaust Air Fan Data					COOLING										HEA	
		Service	Capacity cfm	Size hp	Drive	ESP in wc	Voltage	MCA	MOCP	Capacity cfm	Size hp	Drive	ESP in wc	Voltage	Medium	Coil Type	Sens.Cap. MBH	Total Cap. MBH	Rows Fins/in.	Ent db/wb	LVG db/wb	Face Vel. fpm	PD. Air in.	Medium	Capacity MBH
HVAC–5	INDOOR BUILT UP AIR HANDLING UNIT	CLASSROOM ADDITION	15,000	2@ 10HP	VARIABLE FREQUENCY DRIVE	1.25	208/3/60	118	125	15,000	2 @ 7.5	DIRECT DRIVE	2 @ 1.0	208/3/60	R410A	DX	453	504	8/8	80/66	53/51	495	0.95	WATER	789

GENERAL NOTES:

- ACCEPTABLE MANUFACTURERS: HAAKON, DAIKIN, AAON, 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 &
- LOW LEAKAGE OUTDOOR AIR DAMPER (THER wc).
- MOTORIZED RELIEF DAMPER, SPRING RETURN SHALL FAIL CLOSED).

*ESP IS EXTERNAL TO THE CABINET

HEATING				HEAT RECOVERY								
Capacity MBH	EAT db °F	LAT db °F	Flow (gpm)	Type	Model	Heating Capacity (MBH) @ 0° db	Cooling Capacity (MBH) @ 88° db/75° wb	PD. Air in.	Manufacturer	Model	Weight (lbs) (approx.)	Remarks
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 SCROLL COMPRESSORS, ERV ECONOMIZER MODE (FREE COOLING), 200mm HIGH BASE. UNIT SHALL HAVE A MINIMUM OF 2 REFRIGERATION CIRCUITS.

OOR & EXHAUST AIRSTREAMS).
R (THERMALLY BROKEN) (3cfm/ft2 @ 1.0"

RETURN OUTDOOR AIR DAMPER (DAMPERS

- 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.

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Phone: 519-725-3555 Project No.: 24162

GLENVIEW PARK SS
REFERENCE DRAWING M1.1

AD03–M01

FAN SCHEDULE (PHASE 1)

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

Item	Type	Capacity cfm	ESP in wc	Fan Speed rpm	Motor		Acceptable Manufacturer	Description
					hp	Voltage		
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. REVERSE-ACTING THERMOSTAT BY ELECTRICAL DIVISION

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.

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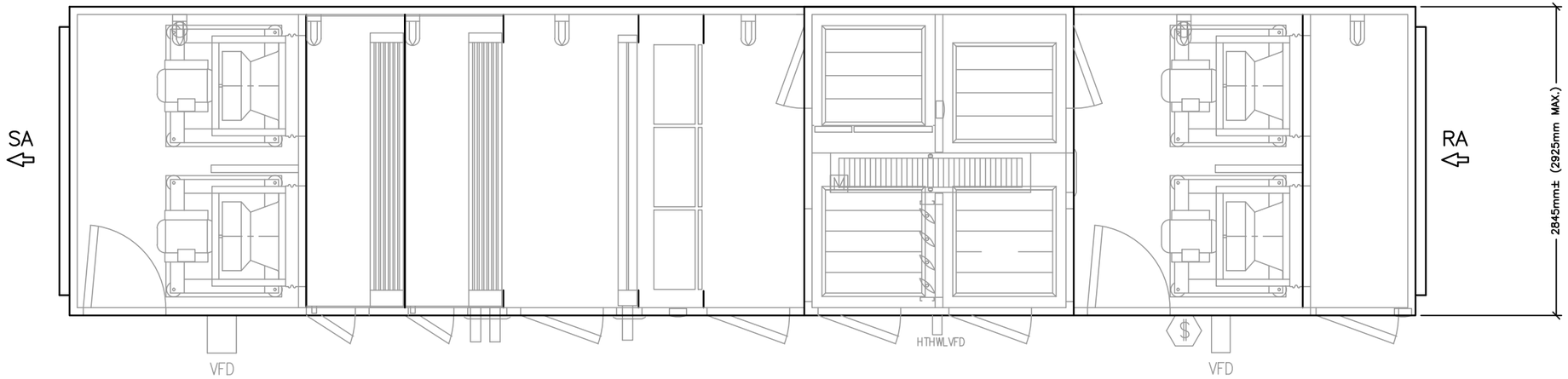
GLENVIEW PARK SS
REFERENCE DRAWING M1.1

AD03-M02



HVAC–5 UNIT DETAIL
SCALE: N.T.S.

(A) Service : SF
Fan: 2 @ 20" EPFN SW, 105% Width, Arrangement-4
Class: 2 Max RPM: 2674
OP. PT1
A.F.(cfm): 7500
TSP(inWC): 5.00
ESP(inWC): 1.25
RPM: 2270
Fans: 2
Tot CFM: 15000
FEI: 1.29
MOTOR : 10 HP, ODP Prem-Eff, 200/3/60
RPM : 1750 (GROUNDED SHAFT)
ISOLATORS : OS DEF : 2 in
FEG80 η_{pt}: 73% η_t / η_{pt} : 93%

(B) COOLING COIL
TYPE : 6 ROW
SIZES : 2 @ 30 X 72
CONN : RIGHT PULL : RIGHT
DRAIN : RIGHT VEL : 500 FPM

(C) HEATING COIL
TYPE : 1 ROW
SIZES : 2 @ 30 X 72
CONN : RIGHT PULL : RIGHT
VEL : 500 FPM

(D) FILTERS : LIFT-OUT UPSTREAM
VELOCITY : 500 FPM
TYPE : 2" (MERV 8) Farr 30/30
12" (MERV 13) Farr Durafil 4V ES Merv 13
SIZES : 6 @ 24 X 24 3 @ 24 X 12

(E) Service : RF
Fan: 2 @ 20" EPFN SW, 105% Width, Arrangement-4
Class: 2 Max RPM: 2674
OP. PT1
A.F.(cfm): 7500
TSP(inWC): 2.80
ESP(inWC):
RPM: 1949
Fans: 2
Tot CFM: 15000
FEI: 1.28
MOTOR : 7.5 HP, ODP Prem-Eff, 200/3/60
RPM : 1750 (GROUNDED SHAFT)
ISOLATORS : OS DEF : 2 in
FEG80 η_{pt}: 73% η_t / η_{pt} : 86%

(F) VRF COIL

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

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GLENVIEW PARK SS
REFERENCE DRAWING M1.2

AD03–M03

EQUIPMENT WIRING SCHEDULE

E = ELECTRICAL
M = MECHANICAL
O = OTHERS

Description			Electrical Data				Starter						Ctrl Device				Isolating Device				Remote Items														Other		Interlock		
Mechanical Item	Description	Provided By	Voltage	Size hp/kW/Amps	Phase	MOCP	Magnetic	Manual	Combination	Contactor	VFD	ECM (No Separate Starter Device)	Hand/Off/Auto	On/Off Selector	High/Low/Off	Pilot Light	Disconnect	WP Disconnect	Breaker/Fuse	Starter/Device Wired by	Thermostat	RA Thermostat	Programmable Time Clock	Variable Speed Control	Current Sensor	Occ Sensor	Dual Voltage Relay	Interval Timer	VRF System Control Panel	Smoke Control System Panel	Control Panel	Wired by	Bldg Auto System	Wired By	Miscellaneous 1	Miscellaneous 2	Interlock to	Interlock by	Remarks
PHASE 1																																							PHASE 1
EF-5	ROOFTOP EXHAUST FAN (CHEMISTRY A212)	M	120	1/4 HP	1									E				E	E	E							M					M/E	M	M			MOT. DAMPER	M	PROVIDE INDICATING LIGHT. INTERLOCK TO MOTORIZED DAMPER
EF-6	ROOFTOP EXHAUST FAN (BIOLOGY A211)	M	120	1/4 HP	1									E				E	E	E							M					M/E	M	M			MOT. DAMPER	M	PROVIDE INDICATING LIGHT. INTERLOCK TO MOTORIZED DAMPER
EF-7	ROOFTOP EXHAUST FAN (CHEMISTRY A212 FUME HOOD)	M	208	3/4 HP	3		E							E				E	E	E												M/E	M	M			FUME HOOD & MOT. DAMPER	M/E	CONNECT TO SWITCH ON FUME HOOD. INTERLOCK TO MOTORIZED DAMPER
SP-1	ELEVATOR SUMP (SIMPLEX)	M	208	0.5 HP	3												E		E	E											M	M/E							PROVIDE RECEPTACLE FOR HIGH LEVEL ALARM. WIRE FLOATS THROUGH CONTROL PANEL
DS-3	DELETED																																						
CU-3	DELETED																																						
GSV	GAS SOLENOID VALVE	M	120	FHP	1														E	E							M					M/E	M	M					REFER TO PLANS FOR NUMBER & LOCATIONS
BAS	BAS PANEL	M	120	FHP	1												E		E	E													M	M					PROVIDE TWO DATA DROPS AND RECEPTACLE. REFER TO PLANS FOR NUMBER & LOCATIONS
NT	ACID NEUTRALIZING TANK	M	120	FHP	1												E		E	E																			PROVIDE RECEPTACLE
EF-8	ELEVATOR MACHINE ROOM EXHAUST	M	120	1/4 HP	1												E		E	E		E					M					M/E							
PHASE 2																																							
HVAC-5	INDOOR HVAC UNIT	M	208	118 AMPS	3	125					M						E		E	E													M	M			CU-3A CU-3B		SINGLE POINT POWER CONNECTION. 102 FLA. MOTOR C/W FACTORY PROVIDED EXTERNAL JUNCTION BOX. VFD INSTALL AND POWER CONNECTION BY ELECTRICAL DIVISION
CU-3A1	CONDENSING UNIT	M	208	61.9 A	3	70												E	E	E													M	M			HVAC-5		CU-3A IS TWO MODULES. REFER TO PLANS FOR NUMBER & LOCATIONS.
CU-3A2	CONDENSING UNIT	M	208	61.9 A	3	70												E	E	E													M	M			HVAC-5		CU-3A IS TWO MODULES. REFER TO PLANS FOR NUMBER & LOCATIONS.
CU-3B1	CONDENSING UNIT	M	208	61.9 A	3	70												E	E	E													M	M			HVAC-5		CU-3B IS TWO MODULES. REFER TO PLANS FOR NUMBER & LOCATIONS.
CU-3B2	CONDENSING UNIT	M	208	61.9 A	3	70												E	E	E													M	M			HVAC-5		CU-3B IS TWO MODULES. REFER TO PLANS FOR NUMBER & LOCATIONS.
BS-	BRANCH SELECTOR BOX	M	208	0.4 A	1												E		E	E													M	M			HVAC-5, CU-3A, CU-3B		REFER TO PLANS FOR NUMBER & LOCATIONS. PROVIDE SEPARATE CIRCUIT FOR EACH SET (X6) OF BRANCH BOXES FOR EACH CONDENSING UNIT
CB-	CU CONTROL BOX	M	208	0.3 A	1												E		E	E													M	M			CU-3A CU-3B		REFER TO PLANS FOR NUMBER & LOCATIONS
P-10	HVAC-5 HEATING COIL CIRCULATION PUMP	M	208	0.5 HP	3				E				E			E	E		E	E													M	M					

Notes:

1 PROVIDE MAIN FEED TO UNIT. PROVIDE ADDITIONAL FEED FROM TERMINAL STRIPS WITHIN UNIT TO VARIABLE FREQUENCY DRIVE AND BACK TO UNIT (IN SEPARATE CONDUITS). COORDINATE CONDUCTOR SIZE TO AND FROM VARIABLE FREQUENCY DRIVE WITH MECHANICAL SHOP DRAWINGS.

PROJECT NORTH

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
6	ISSUED FOR ADDENDUM 02	2025.03.24
7	ISSUED FOR ADDENDUM 03	2025.04.01

CHRONOLOGY	DATE

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MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON, N2V 1Y8

aba architects inc.

CLIENT
WATERLOO REGION DISTRICT SCHOOL BOARD

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

DRAWING TITLE
EQUIPMENT WIRING SCHEDULE

SCALE

SHEET SIZE
24X36

PROJECT NUMBER
24162

DRAWING NUMBER
E103

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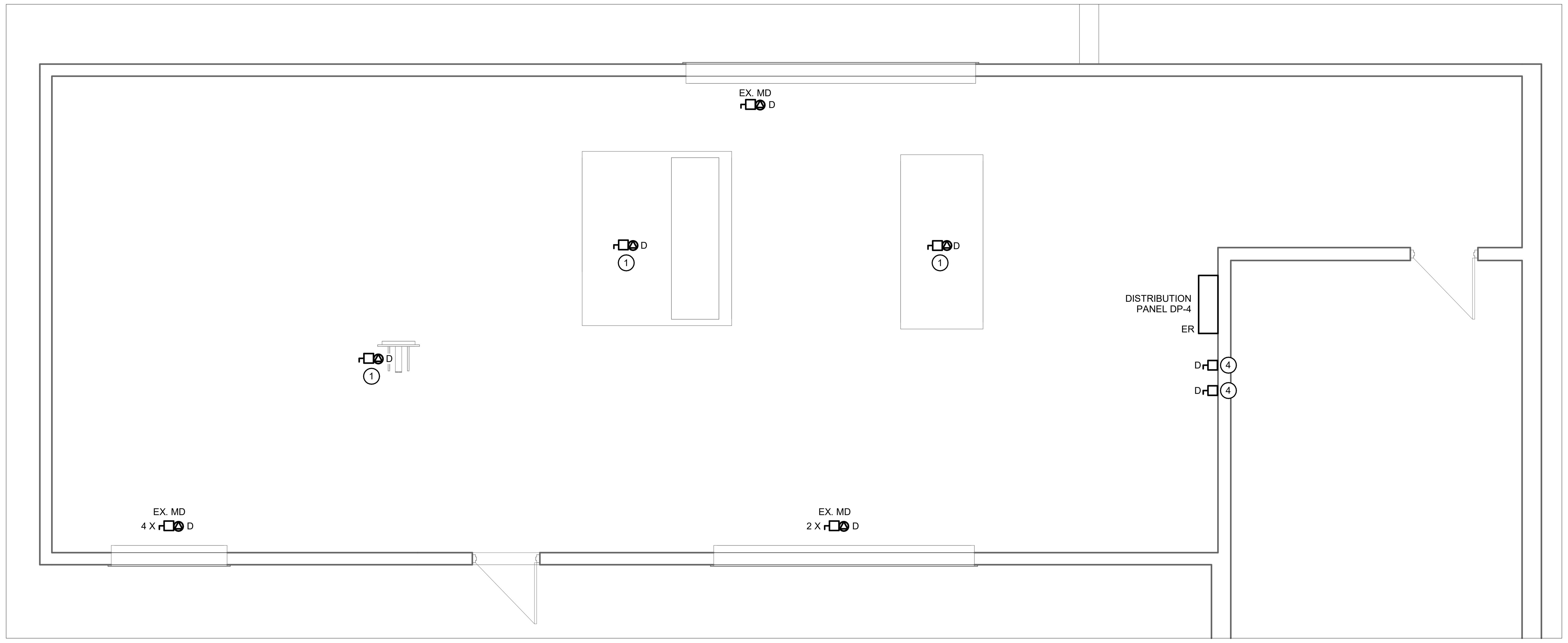
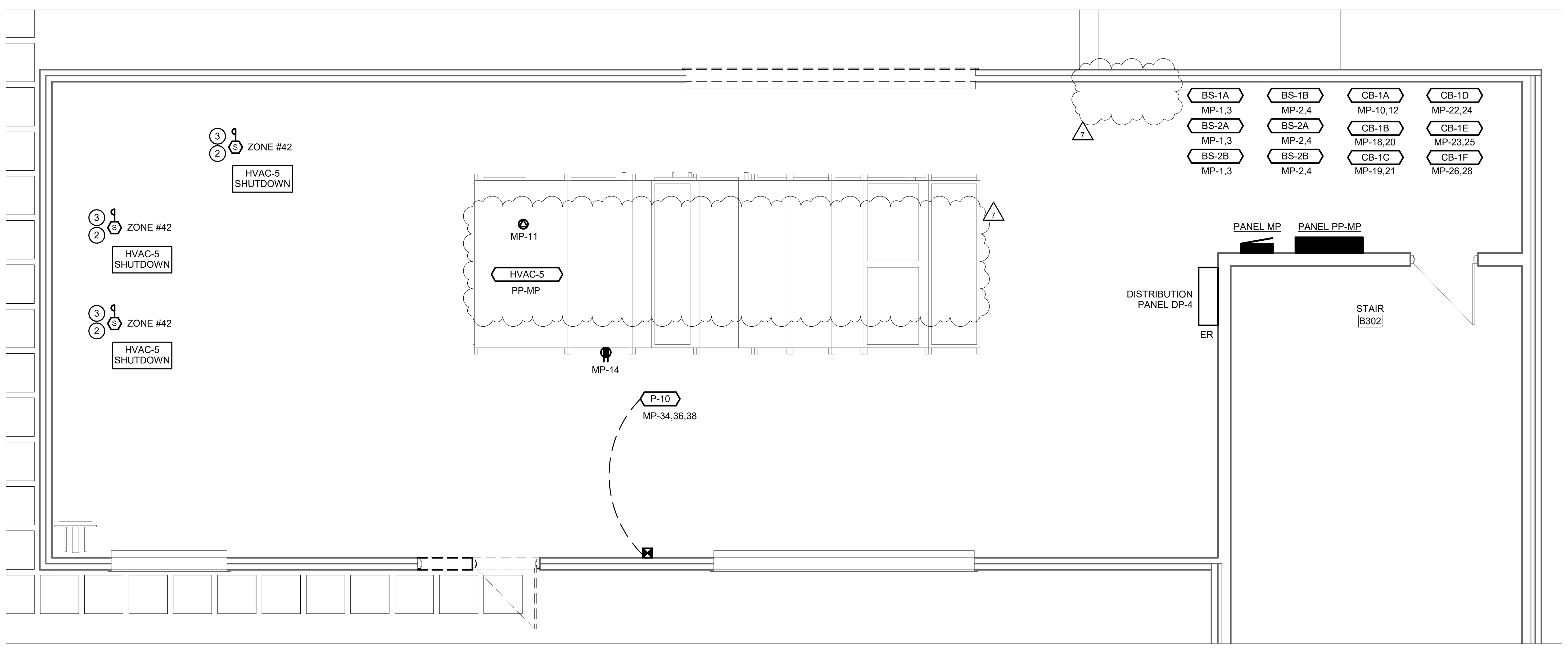


A - ROOF - MECHANICAL ROOM - POWER & SYSTEMS - DEMOLITION PLAN
SCALE: 1 : 50



B - ROOF - MECHANICAL ROOM - POWER & SYSTEMS - RENOVATION PLAN
SCALE: 1 : 50

GENERAL NOTES - DEMOLITION

-	'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.

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	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.
2	INDICATES DUCT TYPE SMOKE DETECTOR MOUNTED IN STRAIGHT SECTION OF SUPPLY DUCT OF MECHANICAL DUCT. REFER TO MECHANICAL DRAWINGS FOR PROPOSED DUCT LOCATIONS AND FURTHER DETAILS. COORDINATE EXACT LOCATION TO INSTALL DUCT SMOKE DETECTOR WITH DUCT STRUCTURE AND ACCESSORIES (SILENCERS) FOR SUITABLE RUN. CONFIRM LOCATION, DETAILS AND REQUIREMENTS WITH THE FIRE ALARM MANUFACTURER AND MECHANICAL CONTRACTOR.
3	CONNECT NEW FIRE ALARM INITIATING DEVICE TO EXISTING LOCAL INITIATING CIRCUIT.RE-VERIFY PORTIONS OF ALARM SYSTEM TO CAN/ULC-S537. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
4	INDICATES EXISTING EXHAUST FAN DISCONNECT SWITCH TO BE REMOVED AS PART OF THIS SCOPE OF WORK. COORDINATE EXACT LOCATION AND DETAILS WITH MECHANICAL CONTRACTOR.

PROJECT NORTH

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2	ISSUED FOR 75% REVIEW	2025.01.31
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Project Number:24162

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CLIENT
WATERLOO REGION DISTRICT SCHOOL BOARD

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

DRAWING TITLE
ENLARGED PLANS (4 OF 4)

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

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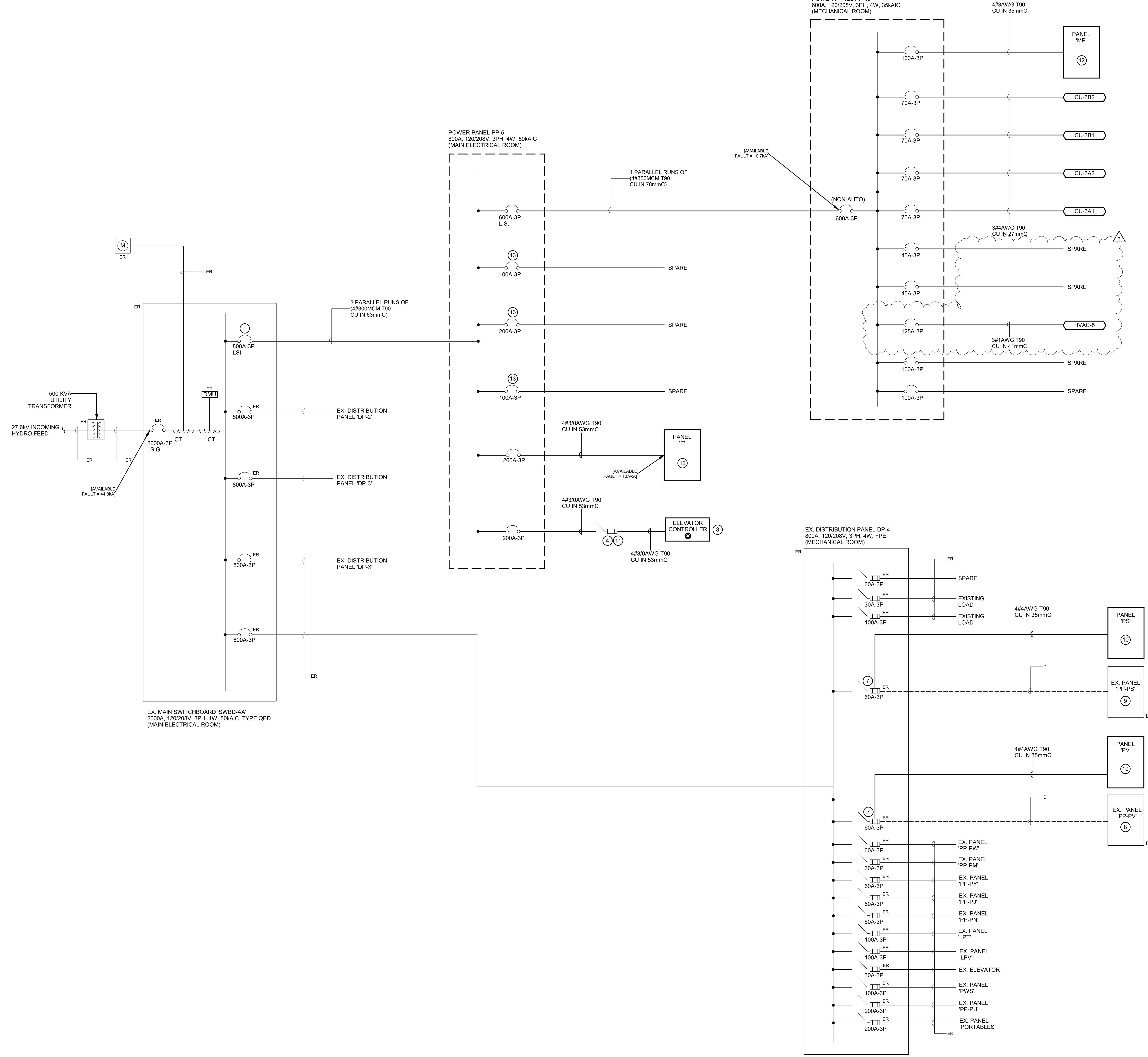

GENERAL NOTES - DISTRIBUTION RISER

A	RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR LOCATION OF ALL DISTRIBUTION EQUIPMENT AND FURTHER REQUIREMENTS.
B	REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING MOULDED CASE CIRCUIT BREAKERS.
C	PROVIDE GROUND WIRE IN ALL BRANCH CIRCUITS AND FEEDERS TO SUIT THE ONTARIO ELECTRICAL SAFETY CODE.
D	ALL LIGHTING CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRALS. SIZE BRANCH CONDUITS ACCORDINGLY.
E	ALL DISTRIBUTION EQUIPMENT SHALL BE PROVIDED WITH WARNING LABELS CONFORMING TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-306(1)(2).
F	REFER TO PANEL SCHEDULES FOR QUANTITY OF CIRCUITS AND FURTHER DETAILS.
G	ALL CONDUCTORS FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN A SEPARATE ENCLOSED CONDUIT SYSTEM.

SPECIFIC NOTES

1	PROVIDE NEW BREAKER INDICATED C/W NEW REQUIRED MOUNTING HARDWARE TO ACCOMMODATE WIRE SIZE INDICATED. PROCURE FOR THE SERVICES OF SCHNEIDER FIELD SERVICES GROUP TO REWORK, MODIFY AND RECERTIFY 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 DIRECT 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 MEANS FOR LOCKING IT IN THE OPEN POSITION). 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 PV.
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, 10KAIC
11	INDICATES 208V 3 PHASE 200A DISCONNECT SWITCH C/W 150A CLASS D FUSES.
12	INDICATES RECEPTACLE PANEL - 120/208V, 3PH/4W, 225A MAINS, 25KAIC
13	INDICATES PREPARED SPACE FOR FUTURE BREAKER. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND ACCESSORIES.

PROJECT NORTH

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1	ISSUED FOR 50% PROGRESS	2024.01.14
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CHRONOLOGY	DATE

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

aba architects inc.

CLIENT

WATERLOO REGION DISTRICT SCHOOL BOARD

PROJECT NAME

GLENVIEW PARK SECONDARY SCHOOL HVAC IMPROVEMENTS
55 McKay St., Cambridge, ON, N1R 4G8

DRAWING TITLE

DISTRIBUTION RISER DIAGRAM - RENOVATION

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

2025-04-01 1:58:58 PM C:_Revit\24162 WRDSB Glenview Park SS Elec Central (RVT23)_aaravissery.rvt

PANEL E

MAINS: 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	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								1	15 A		ELEVATOR CAB LIGHTING	6
7								1	15 A		ELEVATOR CAB COMMUNICATION	8
9								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				1	15 A		FIRE SMOKE DAMPER - ELEVATOR WING	20
21	EXHAUST FAN (EF-8)		15 A	1								22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55	SPARE	--	15 A	1				1	20 A	--	SPARE	56
57	SPARE	--	15 A	1				1	20 A	--	SPARE	58
59	SPARE	--	15 A	1				1	20 A	--	SPARE	60

NOTES:

PANEL PS

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	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								24
25												26
27												28
29												30
31												32
33												34
35												36
37	SPARE	--	20 A	1				1	15 A	--	SPARE	38
39	SPARE	--	20 A	1				1	15 A	--	SPARE	40
41	SPARE	--	20 A	1				1	15 A	--	SPARE	42

NOTES:

PANEL PV

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												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

NOTES:

PANEL MP

MAINS: 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	BRANCH SELECTOR CU-4A		15 A	2				2	15 A		BRANCH SELECTOR CU-4B	2
3												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	MARINE LIGHTS		15 A	1								12
13								1	20 A		MECH. ROOM RECEPTACLE	14
15												16
17								2	15 A		CONTROL BOX CB	18
19	CONTROL BOX CB		15 A	2								20
21								2	15 A		CONTROL BOX CB	22
23	CONTROL BOX CB		15 A	2								24
25								2	15 A		CONTROL BOX CB	26
27	MECHANICAL PIPE HEAT TRACING	GFI	20 A	2								28
29								2	20 A	GFI	MECHANICAL PIPE HEAT TRACING	30
31	MECHANICAL PIPE HEAT TRACING	GFI	20 A	2								32
33								3	15 A		HVAC-5 CIRCULATION PUMP (P-10)	34
35	ROOF EXHAUST FAN (EF-7)		15 A	3								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

NOTES:

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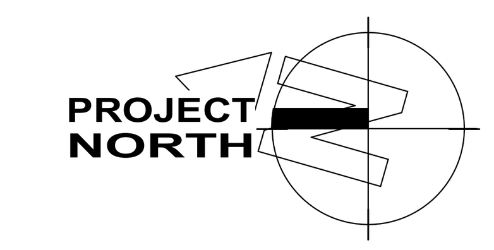

No.	REVISIONS	DATE
2	ISSUED FOR 75% REVIEW	2025.01.31
4	ISSUED FOR PERMIT/TENDER	2025.03.05
5	ISSUED FOR ADDENDUM 01	2025.03.20
6	ISSUED FOR ADDENDUM 02	2025.03.24
7	ISSUED FOR ADDENDUM 03	2025.04.01

CHRONOLOGY	DATE

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Website: deiassociates.ca
Project Number:24162

a b a architects inc.

CLIENT

WATERLOO REGION DISTRICT SCHOOL BOARD

PROJECT NAME

GLENVIEW PARK SECONDARY SCHOOL HVAC IMPROVEMENTS
55 McKay St., Cambridge, ON, N1R 4G8

DRAWING TITLE

PANEL SCHEDULES

SCALE

SHEET SIZE
24X36

PROJECT NUMBER
24162

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E402

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