

	LIGHTING		POWER
X	LIGHT FIXTURE TYPE AS INDICATED	Φ	WALL MOUNTED RECEPTACLE (15A-120V)
[X////]	LIGHT FIXTURE (HATCHING DENOTES NIGHTLIGHT)	•	WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)
	COMBINATION EMERGENCY/EXIT TYPE AS	4	T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)
EM-X DC-X X-X	INDICATED (EM-X INDICATES BATTERY UNIT TYPE, DC-X INDICATES DC CIRCUIT AND X-X INDICATES AC SOURCE CIRCUIT)	₽ s	RECEPTACLE MTD. ABOVE COUNTER S = SPLIT (15A-120V)
M M	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED	0	DIRECT CONNECTION
薆	WALL MOUNTED EXIT LIGHT SHADING INDICATES FACE	JB	JUNCTION BOX
1201	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION		PANEL AS INDICATED
###	SHADING INDICATES FACE SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE	·	FUSED DISCONNECT
	RECESSED REMOTE EMERGENCY FIXTURES	ㅁ	UNFUSED DISCONNECT
DBU	CEILING RECESSED BATTERY UNIT C/W INTEGRAL EMERGENCY FIXTURES	VFD	VARIABLE FREQUENCY DRIVE
	BATTERY UNIT WITH INTEGRAL	•	PUSH-BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)
EM-X DC-X X-X	EMERGENCY FIXTURE (EM-X INDICATES BATTERY UNIT TYPE, DC-X INDICATES DC CIRCUIT AND X-X INDICATES AC SOURCE CIRCUIT)	DVR	DUAL VOLTAGE RELAY
\$	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER,		MANUAL STARTER
\$ os	M=MOTOR RATED) OCCUPANCY SENSOR (PASSIVE)		MAGNETIC STARTER
OSD/OSR	OCCUPANCY SENSOR: OSD=DUAL TECHNOLOGY	H	COMBINATION MAGNETIC STARTER
os	OSR=DUAL CIRCUIT/DUAL TECHNOLOGY CEILING MOUNTED MOTION SENSOR	_₽△	SURFACE RACEWAY C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)
DR	DIGITAL ROOM CONTROLLER	RA T	THERMOSTAT (RA = REVERSE ACTING) HONEYWELL CAT. #T6051 SERIES
3B	DIGITAL WALL STATION, 'X' DENOTES NUMBER OF CONTROL BUTTONS IN	M	METER
	FIRE ALARM	\boxtimes	UNISTRUT UPSTAND
H	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)		TRANSFORMER
S RL	SMOKE DETECTOR (RL=RELAY BASE)		SECURITY
q (S)	DUCT TYPE SMOKE DETECTOR	DC	DOOR CONTACT C/W 19mmC TO NEAREST SECURITY JUNCTION BOX
<u> </u>	ALARM BELL	ES	(REFER TO DETAIL) ELECTRIC STRIKE. CONFIRM ROUGHIN WITH DOOR HARDWARE.
FSD	FIRE SMOKE DAMPER		CARD/FOB READER ROUGH-IN AS A
	<u> </u> DATA	CR	SINGLE GANG BOX AT 1100mm AFF C/W 13mmC TO ELECTRIC STRIKE IN ADJACENT DOOR FRAME. CONFIRM ROUGH-IN WITH DOOR HARDWARE.
▼	SINGLE WALL MOUNTED TELEPHONE OUTLET C/W 3/4" (21mm) C TO CABLE		GENERAL
∇	MANAGEMENT SYSTEM. SINGLE COMPUTER OUTLET C/W 3/4" (21mm) C TO CABLE MANAGEMENT	ER	INDICATES EXISTING ITEM TO REMAIN
	SYSTEM. COMBINATION SINGLE VOICE/SINGLE	D	INDICATES EXISTING ITEM TO BE DEMOLISHED
•	COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 3/4" (21mm) C TO CABLE MANAGEMENT SYSTEM.	R	INDICATES EXISTING ITEM TO BE RELOCATED/ IN RELOCATED POSITION
WAP	WIRELESS ACCESS POINT. PROVIDE 3/4" (21mm) C TO CABLE MANAGEMENT	GF	GROUND FAULT
©	SYSTEM. HANGER SYSTEM (REFER TO DETAILS)	WP	WEATHERPROOF
Φ	HANDSET (ND = NON DIAL STYLE)	CLG	CEILING MOUNTED
	COMMUNICATIONS	(X)	NOTE INDICATOR
	CLOCK AS PER SPECIFICATIONS	$\overline{}$	MECHANICAL ITEM INDICATOR
	WALL MOUNTED SPEAKER (CS = COLUMN SPEAKER)	ST	ANDARD CIRCUIT LABELLING
 ₩	WALL MOUNTED SPEAKER C/W		A - 1 - 1
▼	CALL IN SWITCH		POWER PANEL LABEL—

SHEET NUMBER	SHEET NAME	
E101	LEGEND AND OVERALL PLANS	
E102	ELECTRICAL DETAILS & SCHEDULES	
E103	EQUIPMENT WIRING SCHEDULE	
E104	LIGHTING CONTROL DETAILS	
E105	LIGHT FIXTURE SCHEDULE	
E201	LEVEL 2 - SCIENCE WING - ELECTRICAL DEMOLITION PLAN	
E202	LEVEL 1 - SCIENCE WING - ELECTRICAL RENOVATION PLAN	
E203	LEVEL 2 - SCIENCE WING - ELECTRICAL RENOVATION PLAN	
E204	ROOF - SCIENCE WING - POWER & SYSTEMS RENOVATION PLAN	
E301	ENLARGED PLANS (1 OF 4)	
E302	ENLARGED PLANS (2 OF 4)	
E303	ENLARGED PLANS (3 OF 4)	
E304	ENLARGED PLANS (4 OF 4)	
E401	DISTRIBUTION RISER DIAGRAM - RENOVATION	
E402	PANEL SCHEDULES	
E501	PARTIAL FIRE ALARM RISER DIAGRAM AND ANNUNICIATOR SCHEDULE	

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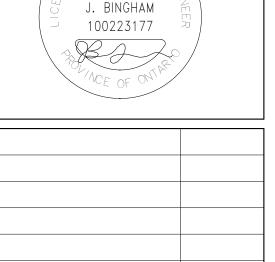
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No.	REVISIONS	DATE
1	ISSUED FOR 50% PROGRESS	2024.01.14
2	ISSUED FOR 75% REVIEW	2025.01.31
3	ISSUED FOR PERMIT/TENDER	2025.03.05
4	ISSUED FOR ADDENDUM 01	2025.03.20
5	ISSUED FOR ADDENDUM 02	2025.03.24
6	ISSUED FOR CONSTRUCTION	2025.05.14



DATE

/14 MAY 2025



CHRONOLOGY





PROJECT NAME

GLENVIEW PARK
SECONDARY SCHOOL
HVAC IMPROVEMENTS

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

AWING TITLE

LEGEND AND OVERALL PLANS

CALE
As Indicated

PROJECT NUMBER 24162

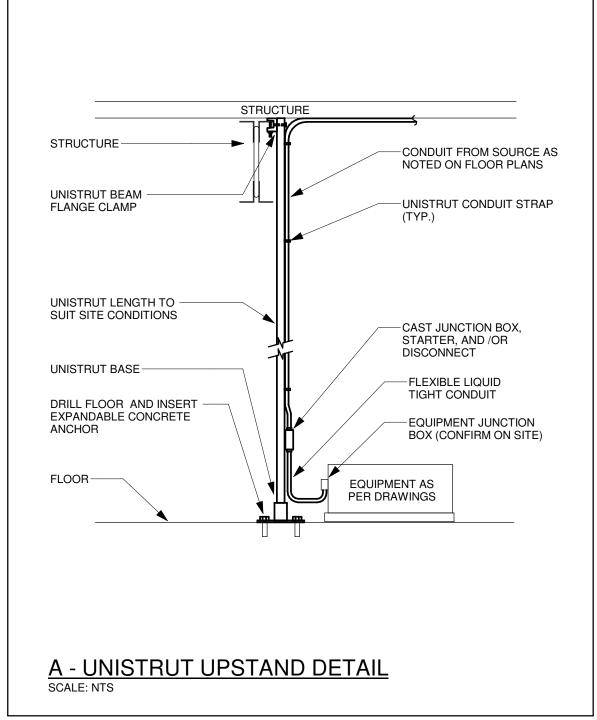
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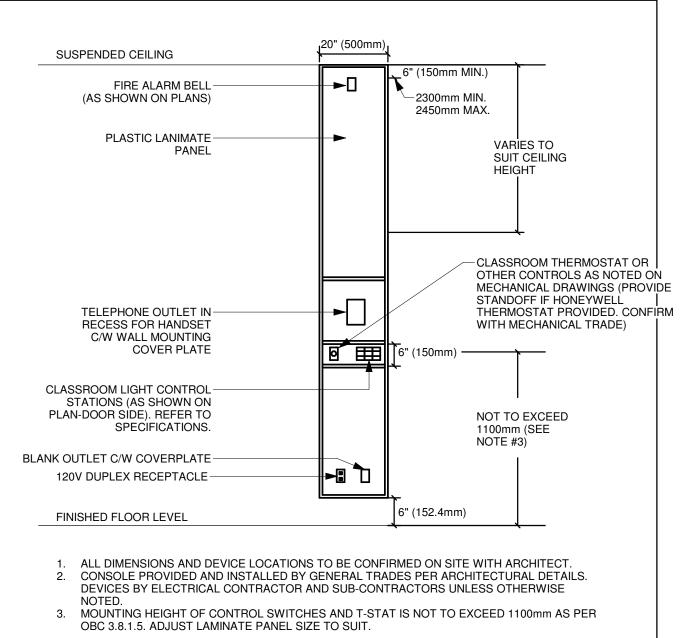
SIZE

24X36

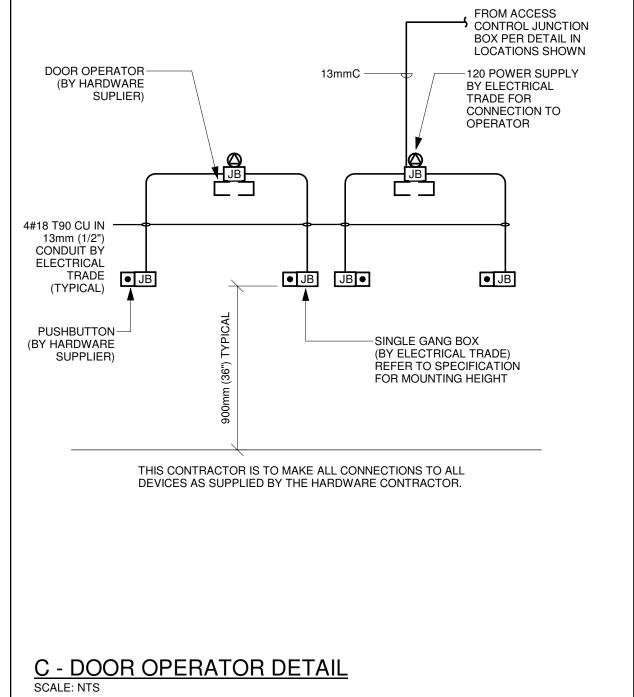
E101

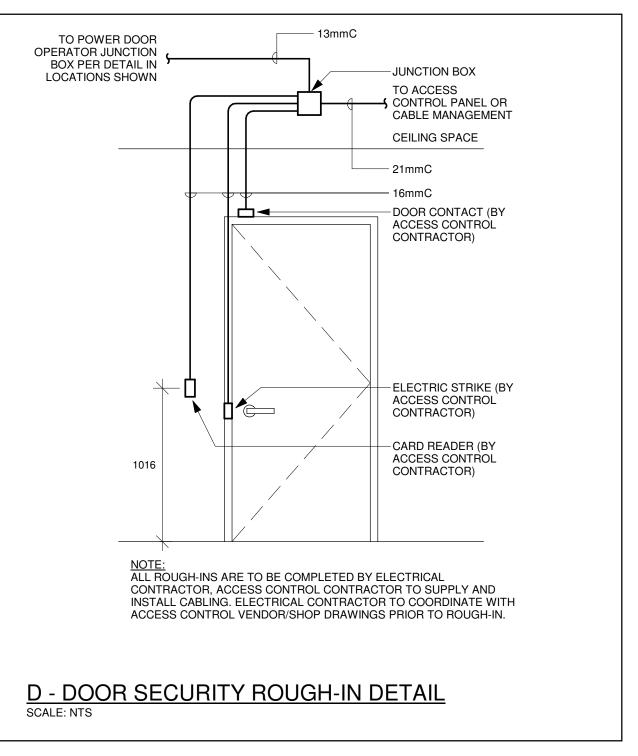
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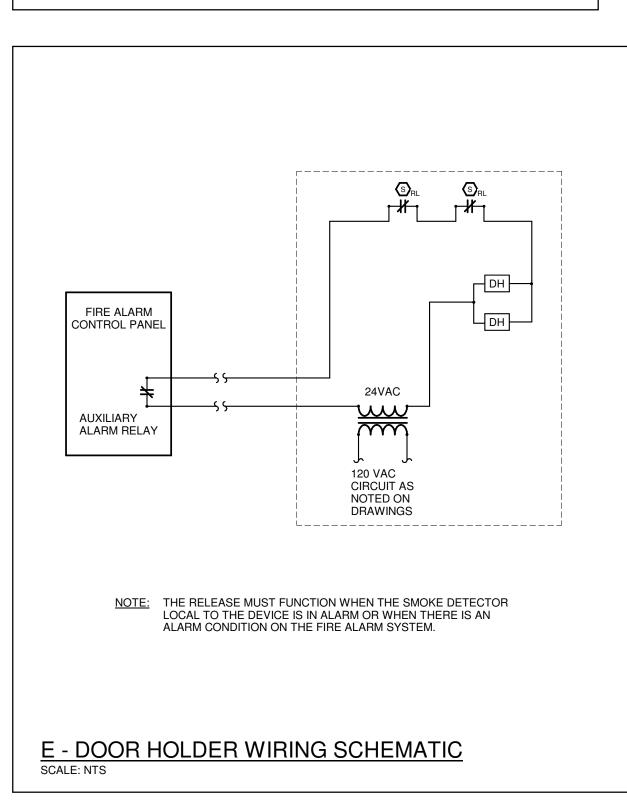


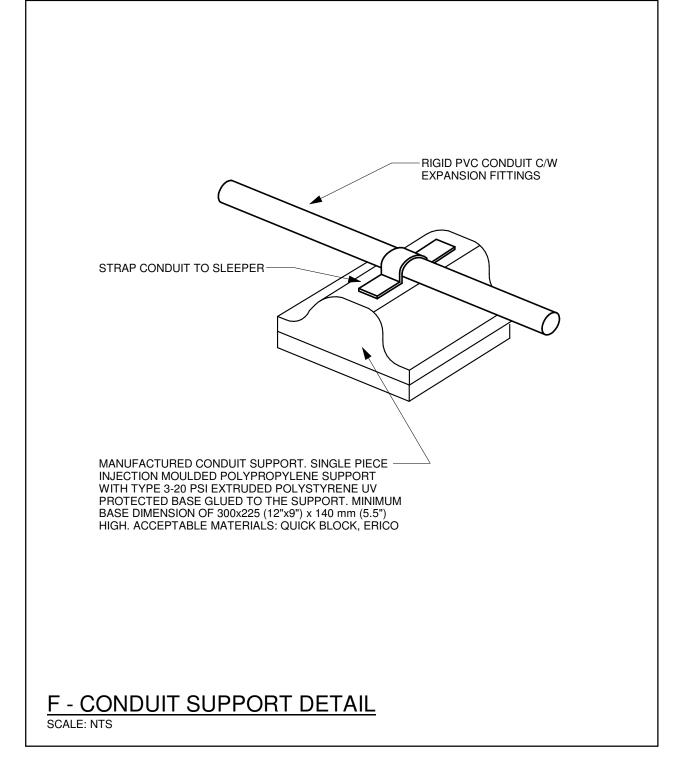


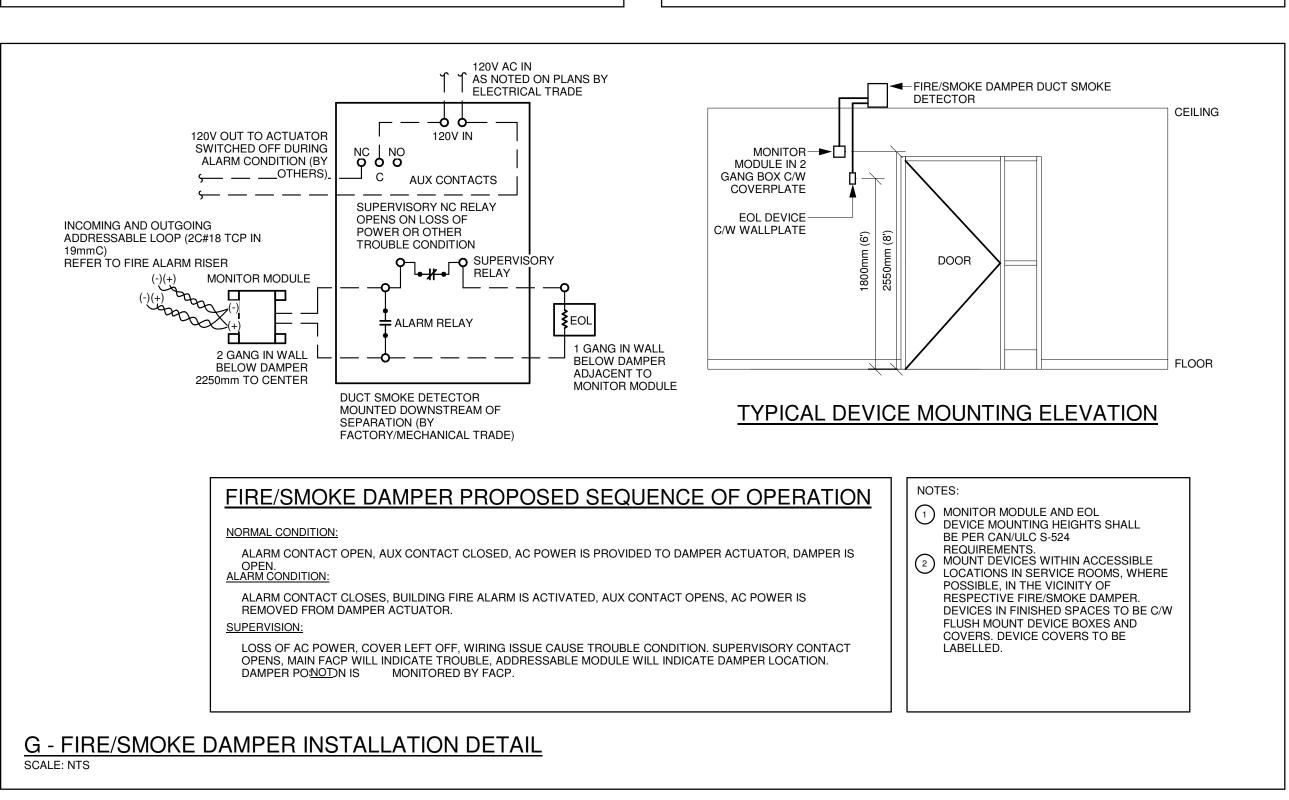
B - CLASSROOM CONTROL PANEL DETAIL











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MECHANICAL | ELECTRICAL | AQUATIC





PROJECT NAME

GLENVIEW PARK
SECONDARY SCHOOL
HVAC IMPROVEMENTS

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

DRAWING TITLE

ELECTRICAL DETAILS & SCHEDULES

As Indicated

SHEET SIZE

24X36

PROJECT NUMBER 24162

E102

DRAWING NUMBER

	Description		E	Electrical D	Data			Sta	arter			Ctrl De	evice	I	solating De	evice						Remote	Items					0	Other	Interlock		
Mechanical Item	Description	Provided By Voltage		Size hp/kW/Amps	phase	MOCP	Vlagnetic Manual	Sombination	Contactor	VFD ECM (No Separate Starter Device)	Hand/Off/Auto	On/Off Selector	High/Low/Off	Disconnect	WP Disconnect	Streaker/ Fuse	Starter/Device Wired by	RA Thermostat	Programmable Time Clock	Variable Speed Control Current Sensor	Occ Sensor	Oual Voltage Relay	nterval Timer VBE Svetam Controll Danal	Smoke Control System Panel	Sontrol Panel	Nired by	3ldg Auto System	Mired By Miscellaneous 1	Viscellaneous 2	nterlock to	nterlock by	Semarks
PHASE 1	_			<u> </u>							_			_								_							_	_		PHASE 1
EF-5	ROOFTOP EXHAUST FAN (CHEMISTRY A212)	M 120	1/-	/4 HP	1							E			E	E E	≣					М				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	0.9	.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	F	FHP	1											E E	≡					М				M/E	M	M				REFER TO PLANS FOR NUMBER & LOCATIONS
BAS	BAS PANEL	M 120	F	FHP	1									E		E E	≣										М	M				PROVIDE TWO DATA DROPS AND RECEPTACLE. REFER TO PLANS FOR NUMBER & LOCATIO
NT	ACID NEUTRALIZING TANK	M 120	F	FHP	1									E		E E	≣															PROVIDE RECEPTACLE
EF-8	ELEVATOR MACHINE ROOM EXHAUST	M 120	1/-	/4 HP	1									E		E E	=	E				М				M/E						
PHASE 2																																
HVAC-5	INDOOR HVAC UNIT	M 208	118	3 AMPS	3	125				М				Е		E E	≣										М	М		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	1.9 A	3	70									Е	E E	≣										М	М		HVAC-5		CU-3A IS TWO MODULES. REFER TO PLANS FOR NUMBER & LOCATIONS.
CU-3A2	CONDENSING UNIT	M 208	61	1.9 A	3	70									E	E E	≣										М	М		HVAC-5		CU-3A IS TWO MODULES. REFER TO PLANS FOR NUMBER & LOCATIONS.
CU-3B1	CONDENSING UNIT	M 208	61	1.9 A	3	70									E	E E	=										М	М		HVAC-5		CU-3B IS TWO MODULES. REFER TO PLANS FOR NUMBER & LOCATIONS.
CU-3B2	CONDENSING UNIT	M 208	61	1.9 A	3	70									Е	E E	=										М	М		HVAC-5		CU-3B IS TWO MODULES. REFER TO PLANS FOR NUMBER & LOCATIONS.
BS-	BRANCH SELECTOR BOX	M 208	0	0.4 A	1									E		E E	Ξ										M	М		HVAC-5, CU-3A, CU-3B		REFER TO PLANS FOR NUMBER & LOCATIONS. PROVIDE SEPARATE CIRCUIT FOR EACH SET OF BRANCH BOXES FOR EACH CONDENSING UNIT
CB-	CU CONTROL BOX	M 208	0	D.3 A	1									E		E E	≣										М	М		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	М				

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.

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E = ELECTRICAL



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3	ISSUED FOR PERMIT/TENDER	2025.03.05
4	ISSUED FOR ADDENDUM 01	2025.03.20
5	ISSUED FOR ADDENDUM 02	2025.03.24
6	ISSUED FOR ADDENDUM 03	2025.04.01
7	ISSUED FOR CONSTRUCTION	2025.05.14





DATE

CHRONOLOGY





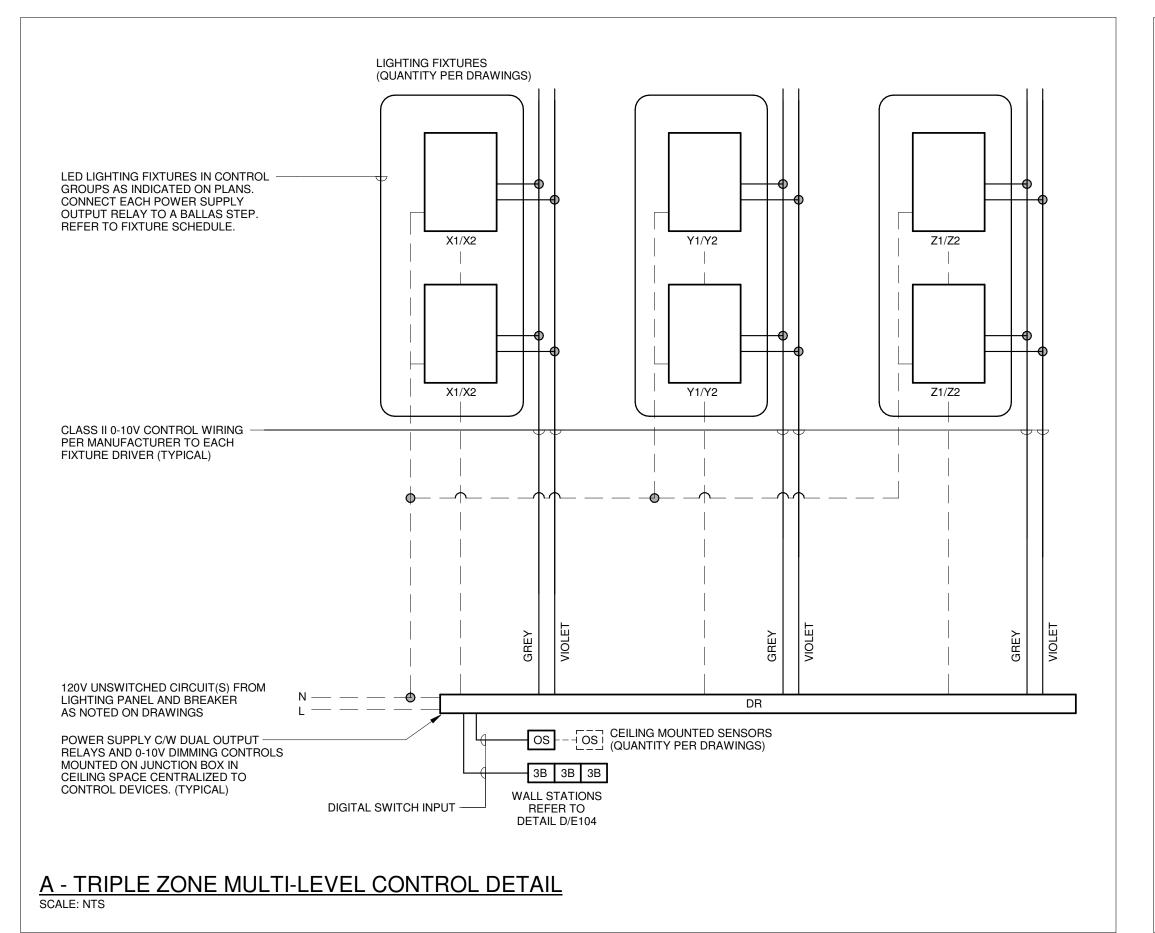
GLENVIEW PARK SECONDARY SCHOOL HVAC IMPROVEMENTS 55 McKay St., Cambridge, ON, N1R 4G8

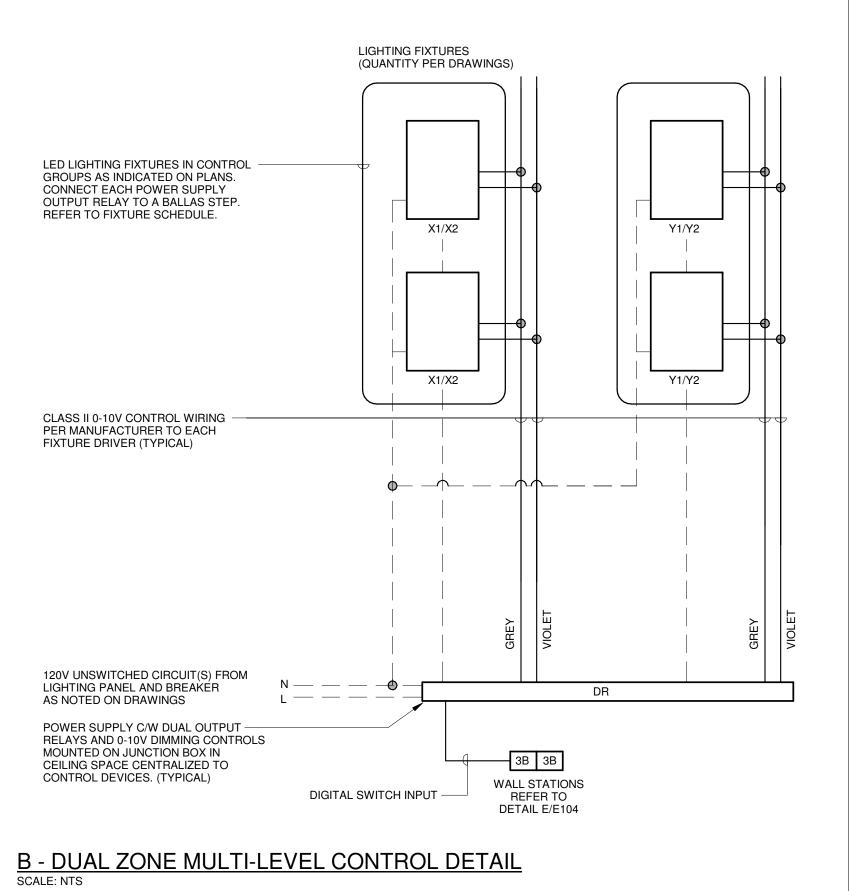
EQUIPMENT WIRING SCHEDULE

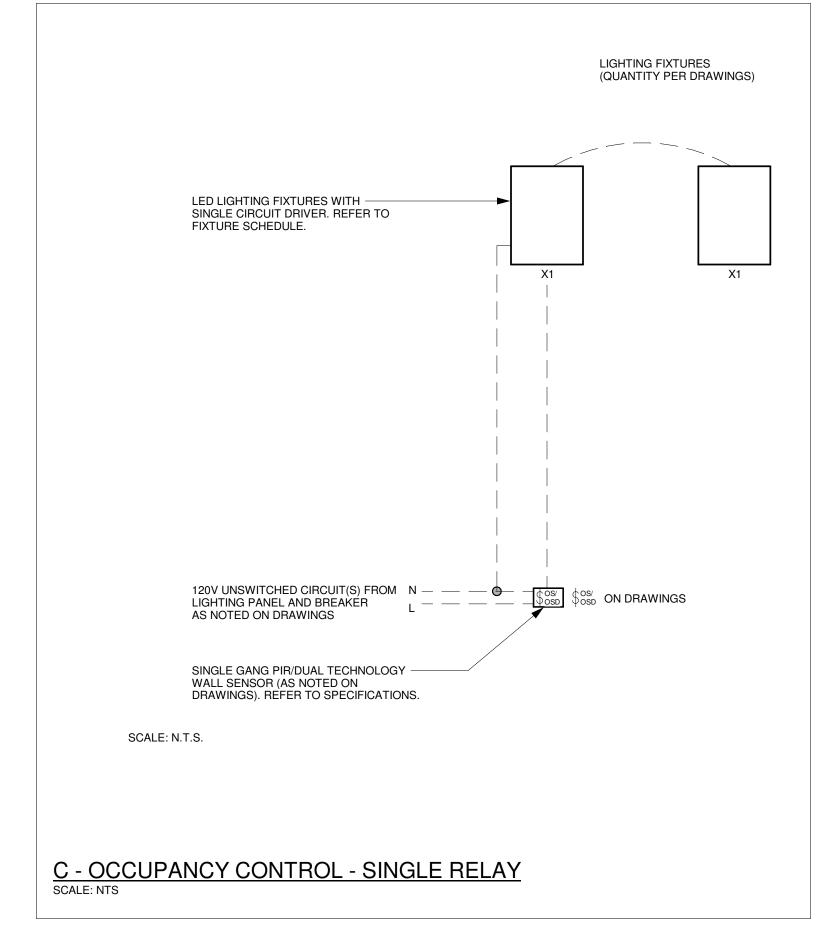
As Indicated

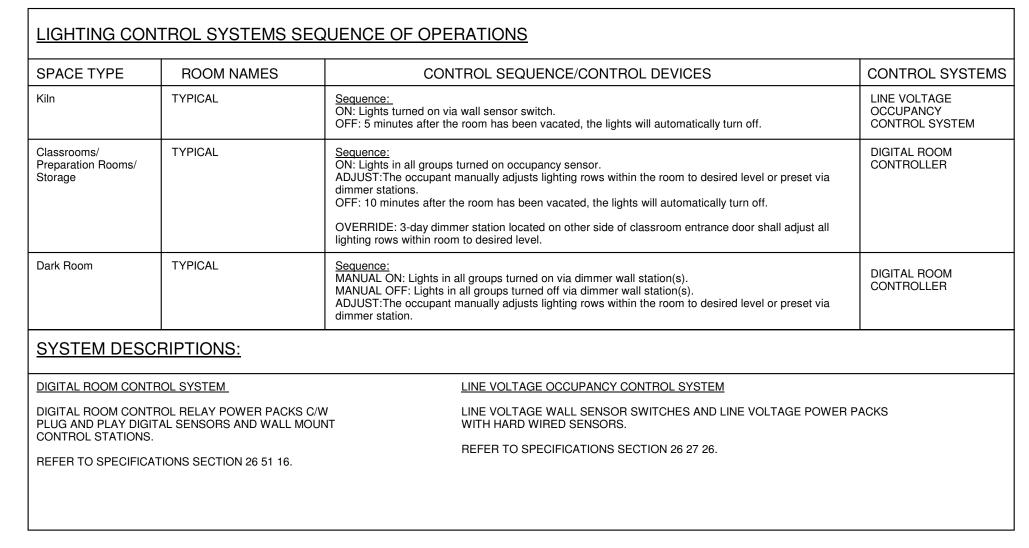
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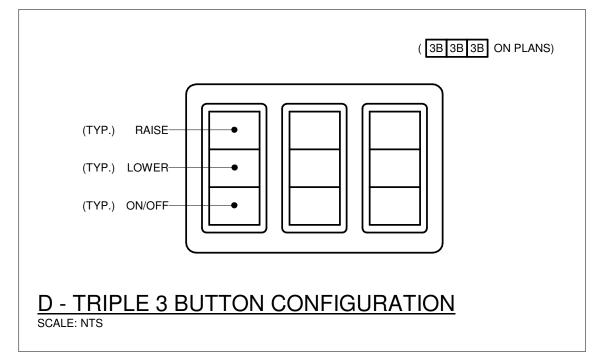
SHEET SIZE

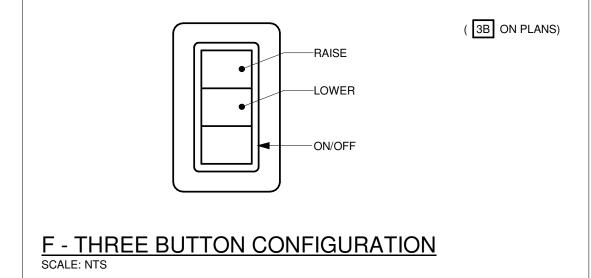


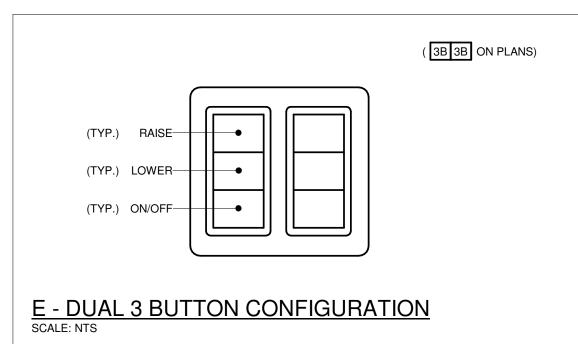












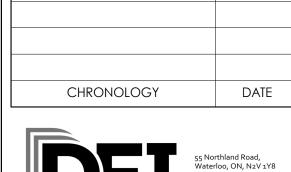
NOTES:	
1. RE	FER TO LIGHTING PLANS FOR GROUPINGS.
NO WIT EA	ALL STATION BUTTONS TO BE ENGRAVED WITH LABELS ACCORDING TO LEVEL AS TED. COORDINATE LABELS WITH OWNER. PROVIDE BUTTON ENGRAVING WORKSHEET TH SHOP DRAWING SUBMISSION FOR REVIEW. WORKSHEETS TO BE COMPLETED FOR CH CONTROL STATION GROUP. USE SINGLE MULTI-GANG FACEPLATE, FINISH PER ECIFICATIONS.
_	FER TO SPECIFICATIONS FOR INFORMATION REGARDING PROGRAMING OF INPUT VICES AND DIGITAL WALL STATIONS PER ROOM TYPE.
	1◀ REFERENCE (NOT ENGRAVED)
	X1 ◄ ZONE LABEL (ENGRAVED)
	TYPICAL BUTTON
	ENGRAVING
G - ⁻	TYPICAL LIGHTING BUTTON ENGRAVING

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SSUED FOR CONSTRUCTION	
	2025.05.14











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

DRAWING TITLE

LIGHTING CONTROL

DRAWING NUMBER As Indicated

DETAILS

SHEET SIZE 24X36

ITEM	MANUFACTURER/CATALOG NUMBER	VOLTAGE	LAMP	MOUNTING	CRI	LISTINGS	DESCRIPTION
A	METALUX CAT. #24CZSCT3-UNV LITHONIA CAT. #STAKS 2X4 ALO6 SWW7 UVOLT SIGNIFY CAT. #2DSRT4060LCS-4-UNV-DIM	120V	LED 4000 LUMENS 4000K 46W	RECESSED	80	N/A	2'X4' (610mmX1220mm) SELECTABLE LUMEN TROFFER LED FIXTURE C/W RIBBED FROSTED ACRYLIC LENS AND 0-10V DIMMING DRIVER SUITABLE FOR T-BAR CEILING NOTE: SET FIXTURE TO NOMINAL LUMENS AS INDICATED ON FIXTURE SCHEDULE
A1	METALUX CAT. #24FPSL2SCT3 LITHONIA CAT. #CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT SIGNIFY CAT. #2SBP3550L8CS-4-UNV-DIM	120V	LED 4000 LUMENS 4000K 24.7W	RECESSED	80	N/A	2'X4' (610mmX1220mm) RECESSED SELECTABLE LUMEN FLAT PANEL LED FIXTURE C/W RIBBED FROSTED ACRYLIC LENS AND 0-10V DIMMING DRIVER SUITABLE FOR T-BAR CEILING. NOTE: SET FIXTURE TO NOMINAL LUMENS AS INDICATED ON FIXTURE SCHEDULE.
В	METALUX CAT. #14CZSCT3-UNV LITHONIA CAT. #STAKS 1X4 ALO6 SWW7 SIGNIFY CAT .#1DSRT3050LCS-4-UNV-DIM	120V	LED 4000 LUMENS 4000K 30W	RECESSED	80	N/A	1X4 (305mmX1220mm) SELECTABLE LUMEN TROFFER LED FIXTURE C/W RIBBED FROSTED ACRYLIC LENS AND 0-10V DIMMING DRIVER SUITABLE FOR T-BAR CEILING NOTE: SET FIXTURE TO NOMINAL LUMENS AS INDICATED ON FIXTURE SCHEDULE
С	COOPER CAT. #HC6-25-D010-HM6-20-840-61-WD-C-WF LITHONIA CAT. #LDN6-40-25-L06-AR-LS-120 LITELINE CAT. #GEN06-IL-40-L-SW-S-N-X-N-1	120V	LED 2500 LUMENS 4000K 20W	RECESSED	80	N/A	6" (150mm) RECESSED LED POTLIGHT C/W, 0-10V DIMMING DRIVER, SEMI-SPECULAR CLEAR REFLECTOR AND WHITE PAINTED FLANGE
M1	METALUX CAT. #4SNLED-LD5-44SL-LW-UNV-L840-CD-1-U-WG/SNF-4FT LITHONIA CAT. #ZL1D L48 5000LM FST MVOLT 40K 80CRI WH-WGZ48 VISCOR CAT. #LCOM48-LED840K044LUNV-P77 C/W W5	120V	LED 4400 LUMENS 4000K 38W	SURFACE	80	N/A	4' (1220mm) LENSED LED STRIP FIXTURE C/W WHITE FINISH, 10% 0-10V DIMMING DRIVER AND WIRE GUARD
M1S	METALUX CAT. #4SLSTPSLC-UNV-AYC-CHAIN/SET LITHONIA CAT. #CSS-L48-AL03-MVOLT-SWW3-80CRI- HC-36-M12 VISCOR CAT. #LCOMN48-LED83550KS-026/037/046S-UN3 C/W KIT00001	120V	LED 4000 LUMENS 4000K 30W	SUSPENDED	80	N/A	4' (1220mm) LENSED SELECTABLE LUMEN LED STRIP FIXTURE C/W WHITE FINISH, 10% 0-10V DIMMING DRIVER AND CHAIN HANGING SET. NOTE: SET FIXTURE TO NOMINAL LUMENS AS INDICATED ON FIXTURE SCHEDULE.
UNIT C/W	AIMLITE CAT. #EBWL-EM-WHT-TB-2-ATD-VDR C/W KIT-BKT497 STANPRO CAT. #SWL-EM-WH-TB-W-AT-TP C/W KIT-BKT497 LUMACELL CAT. #LBL-EM C/W KIT-5R-L	120V	14W LED	RECESSED	N/A	N/A	LONG LIFE, SEALED RECHARGABLE VANDAL RESISTANT BATTERY C/W ADJUSTABLE 14W LED MODULES, POLYCARBONATE BODY, 90 MINUTE BATTERY DURATION, RECESSED IN T-BAR CEILING AS SHOWN ON PLANS, AND AUTOTEST FEATURE.
EMERG. BATTERY	AIMLITE #EBST12 SERIES: EM-1 CAT. #EBST12036-2SM4WLRWHT-ATD LUMACELL CAT. #RG12S SERIES STANPRO CAT. #SLA-12 SERIES	12V	LED 2-4W MR16	SURFACE	N/A	N/A	LONG LIFE, SEALED RECHARGABLE BATTERY PROVIDING MINIMUM EMERGENCY WATTAGE AS NOTED BY THE CATALOGUE NUMBER C/W MICRO SIZE 12V 4W (MINIMUM) LED HEADS AND AUTOTEST FEATURE. UNIT SHALL BE LISTED FOR CAPACITY OF 90 MINUTES MINIMUM.
EXIT LIGHTS (SELF POWERED)	AIMLITE CAT. #RPALW-U-M-WHT-BAT-ATD STANPRO CAT. #RMXL0WH-IB-AT LUMACELL CAT. #LA-3-W-S	12V	LED 2.5 WATT	SURFACE	N/A	N/A	LED SELF POWERED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, AND MAXIMUM 2.5" (63mm) THICKNESS. FACES AND CHEVRONS TO SUIT DRAWINGS. 12V INTERNAL SEALED RECHARGABLE BATTERY PROVIDING MINIMUM 90 MINUTES OF EMERGENCY POWER, AND AUTOTEST FEATURE.

LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.

WHERE NOTED THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S OPTIONAL COLOUR CHART (i.e. RAL COLOURS OR EQUAL). PROVIDE THIS COLOUR CHART WITH SHOP DRAWING SUBMITTAL.

IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIXTURE PART NUMBER AND DESCRIPTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING THESE TO THE ELECTRICAL CONSULTANT'S ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW.

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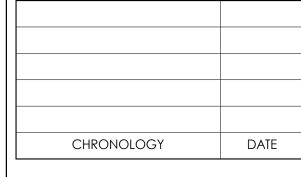
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1	ISSUED FOR PERMIT/TENDER	2025.03
2	ISSUED FOR CONSTRUCTION	2025.05











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

LIGHT FIXTURE SCHEDULE

DRAWING NUMBER As Indicated

E105

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.

SPECIFIC NOTES

- EXISTING FIXTURES WITHIN AREA SHOWN SHALL BE DISCONNECTED AND REMOVED COMPLETE. MAINTAIN, REWORK AND EXTEND EXISTING CIRCUIT AS REQUIRED TO SUIT NEW FIXTURES AS SHOWN ON RENOVATION DRAWINGS FOR A COMPLETE WORKING SYSTEM. EXISTING CEILINGS WITHIN AREA SHOWN ARE BEING REMOVED TO FACILITATE INSTALLATION OF NEW CEILINGS AND NEW LIGHTING FIXTURES. ELECTRICAL CONTRACTOR SHALL INCLUDE AS PART OF THEIR BASE
- BID PRICE TO REMOVE AND REINSTALL ALL EXISTING CEILING MOUNTED DEVICES AS SHOWN TO ACCOMMODATE NEW CEILING AND FIXTURES. REWORK/EXTEND EXISTING WIRING AS REQUIRED TO SUIT NEW LOCATION OF EXISTING DEVICES AS SHOWN ON RENOVATION PLANS.
- MAINTAIN EXISTING BACKBOXES AND CONDUIT FOR NEW DIMMING WALL STATIONS. REFER TO RENOVATION PLANS FOR FURTHER DETAILS AND REQUIREMENTS.



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before

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

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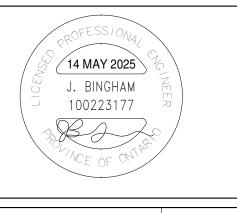
and must be returned at the completion of the project.

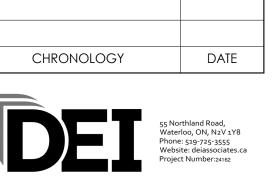
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commencement of the work.

No.	REVISIONS	DATE
1	ISSUED FOR 50% PROGRESS	2024.01.14
2	ISSUED FOR 75% REVIEW	2025.01.31
3	ISSUED FOR PERMIT/TENDER	2025.03.05
4	ISSUED FOR CONSTRUCTION	2025.05.14





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

LEVEL 2 - SCIENCE WING - ELECTRICAL DEMOLITION PLAN

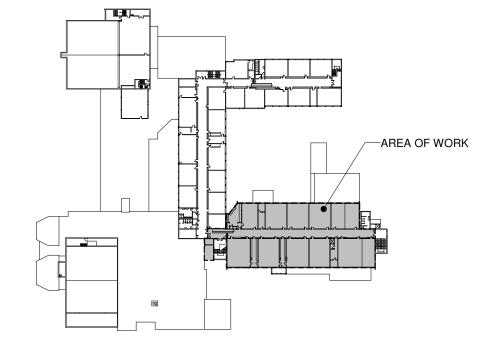
DRAWING NUMBER As Indicated

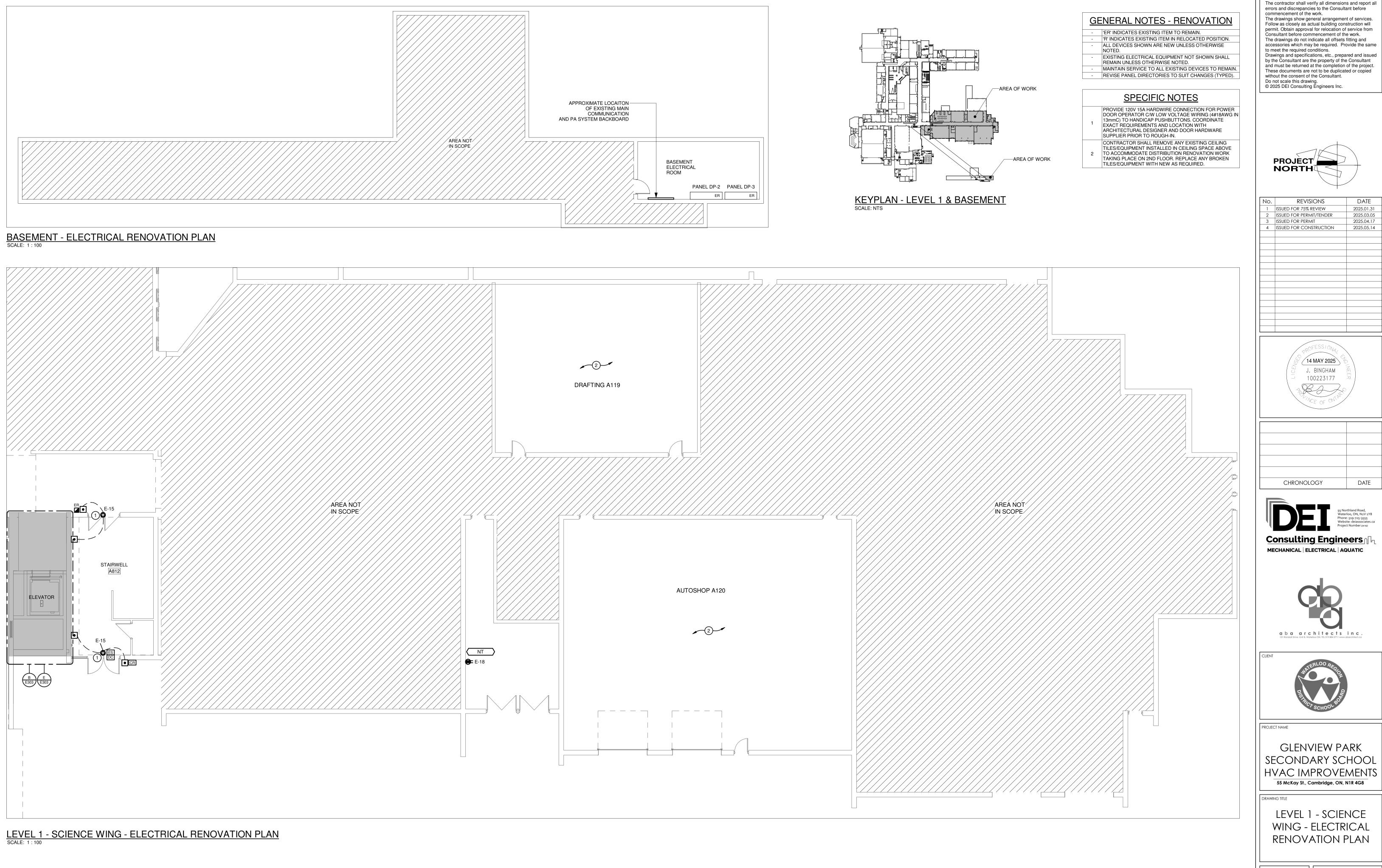
24162

E201

SHEET SIZE KEYPLAN - LEVEL 2
SCALE: NTS PROJECT NUMBER







PROJECT _ NORTH

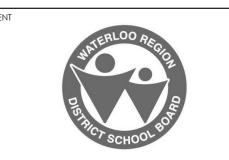
No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT/TENDER	2025.03.05
3	ISSUED FOR PERMIT	2025.04.17
4	ISSUED FOR CONSTRUCTION	2025.05.14

/14 MAY 2025 J. BINGHAM 100223177



CHRONOLOGY





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

LEVEL 1 - SCIENCE WING - ELECTRICAL RENOVATION PLAN

As Indicated

DRAWING NUMBER

E202

NOTES: CIRCUIT LABELS

REQUIREMENTS.

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

GENERAL NOTES - RENOVATION

'ER' INDICATES EXISTING ITEM TO REMAIN.
 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
 ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE

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

- 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.
- 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 CAN/ULC-S537 "VERIFICATION OF FIRE ALARM SYSTEMS" TO ENSURE SATISFACTORY
- 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 SHIT
- 4 INDICATES DIGITAL ROOM CONTROLLER TO BE INSTALLED IN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED OCCUPANCY SENSORS. REFER TO LIGHTING CONTROL DETAILS.
- 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.
- 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.

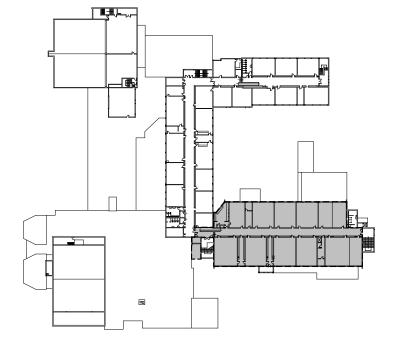
SPECIFIC NOTES

- 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 H/E104, 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.
- 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/E102 AND TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
- 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.

 10 CONNECT NEW FIRE ALARM DEVICE INDICATED TO EXISTING LOCAL INITIATING CIRCUIT. RE-VERIFY PORTIONS
- OF ALARM SYSTEM TO CAN/ULC-S537. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
- 14 CONFIRM EXACT LOCATION OF EXISTING CEILING MOUNT RECEPTACLE BEING RELOCATED ON SITE WITH OWNER. REWORK AND EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED TO SUIT.
- 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 - LEVEL2
SCALE: NTS

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1	ISSUED FOR 50% PROGRESS	2024.01.14
2	ISSUED FOR 75% REVIEW	2025.01.31
3	ISSUED FOR PERMIT/TENDER	2025.03.05
4	ISSUED FOR ADDENDUM 01	2025.03.20
5	ISSUED FOR CONSTRUCTION	2025.05.14







Consulting Engineers



PROJECT NAME

GLENVIEW PARK
SECONDARY SCHOOL
HVAC IMPROVEMENTS

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

DRAWING TITLE

LEVEL 2 - SCIENCE WING - ELECTRICAL RENOVATION PLAN

As Indicated DRAWING NUMBER

As Indicated

SHEET SIZE

PROJECT NUMBER 24162

E203

FOR ALL ROOFTOP CONDENSING UNITS, INSTALL FEEDERS THROUGH DOGHOUSE ROOF PENETRATION AS DETAILED ON MECHANICAL DRAWINGS.

NEW FEEDERS TO FOLLOW SAME ROUTE AS MECHANICAL PIPING. COORDINATE DETAILS WITH MECHANICAL TRADE

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
- 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

- PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "EXTRA DUTY" IN-USE COVER. COORDINATE PLACEMENT WITH MECHANICAL COORDINATE PLACEMENT WITH MECHANICAL
 CONTRACTOR. INDICATED DEVICE SHALL BE MOUNTED AT
 915mm ABOVE FINISHED ROOF LEVEL. PROVIDE SUITABLE
 SUPPORT AT MECHANICAL EQUIPMENT (IF APPLICABLE). INDICATES MECHANICAL PIPING TO BE HEAT TRACED BY MECHANICAL CONTRACTOR AND IS SHOWN FOR REFERENCE PURPOSES ONLY. ELECTRICAL
- CONTRACTOR SHALL PROVIDE 208V 1PH CIRCUIT C/W GFI PROTECTED BREAKER (30mA) FOR MECHANICAL PIPE
 HEAT TRACING. COORDINATE EXACT LOCATION TO
 PROVIDE POWER CONNECTIONS AND ALL OTHER
 REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO CARRYING OUT SCOPE OF WORK.



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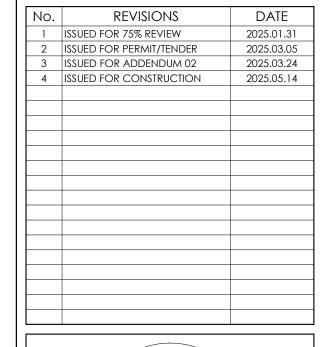
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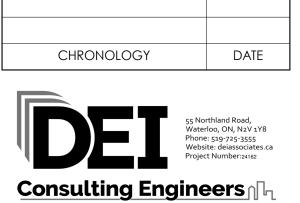
commencement of the work.

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MECHANICAL | ELECTRICAL | AQUATIC



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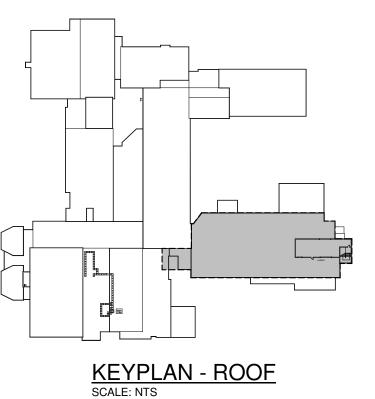
ROOF - SCIENCE WING - POWER & SYSTEMS RENOVATION PLAN

DRAWING NUMBER As Indicated

E204

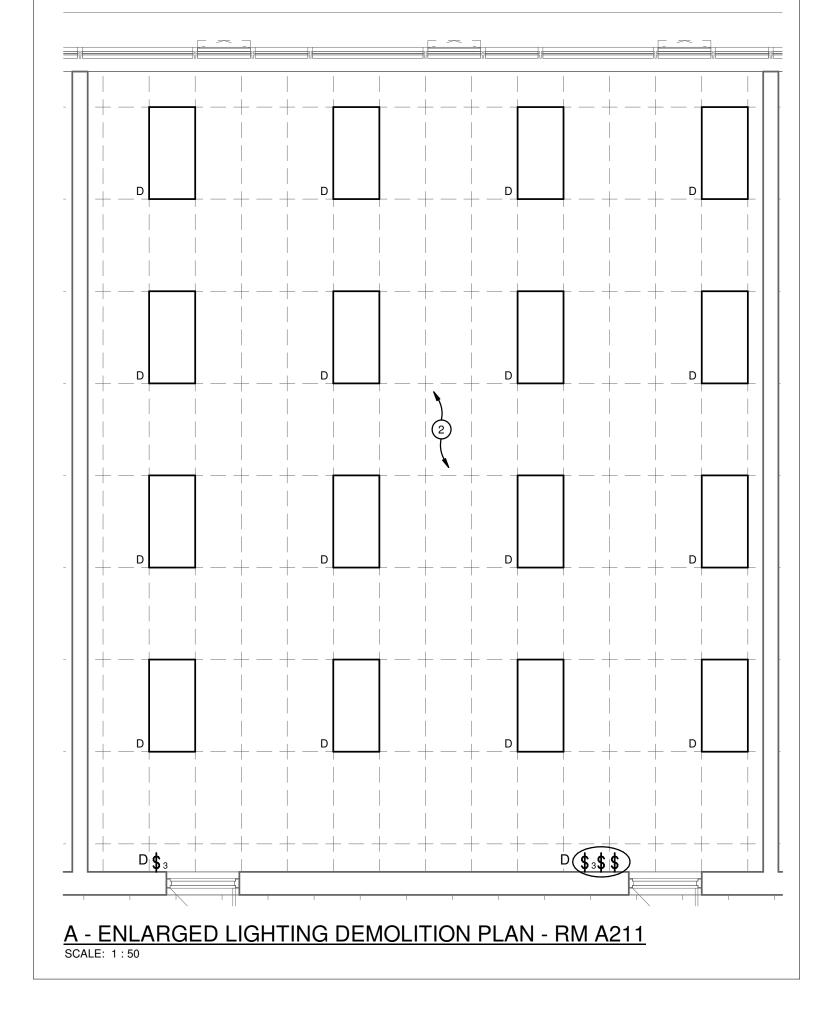


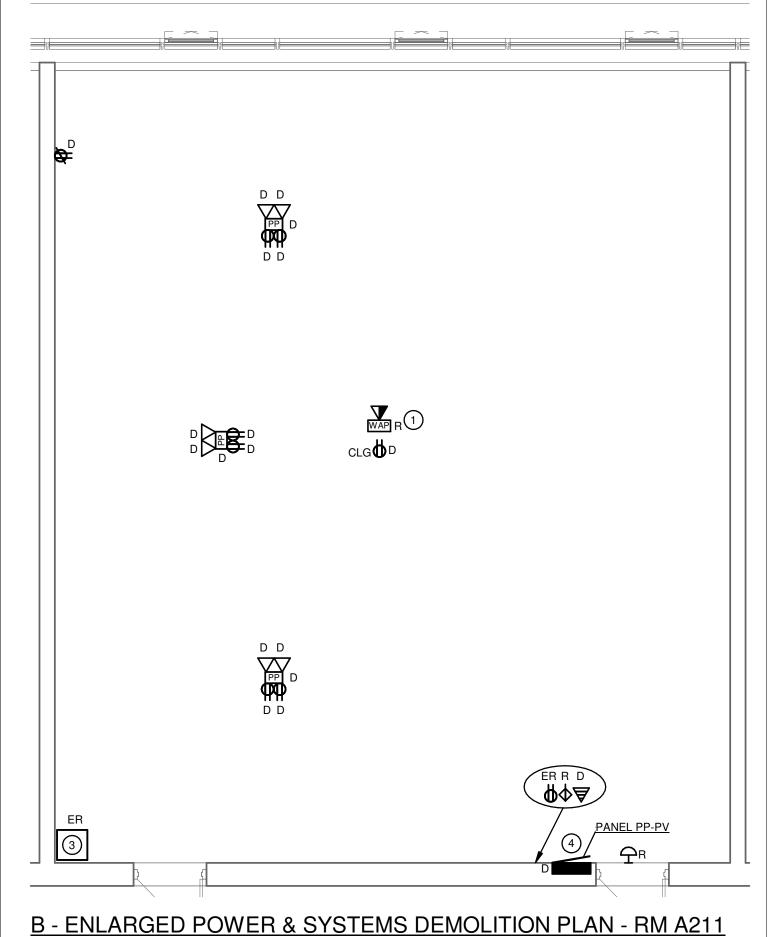
ROOF - SCIENCE WING - POWER & SYSTEMS RENOVATION PLAN
SCALE: 1:125

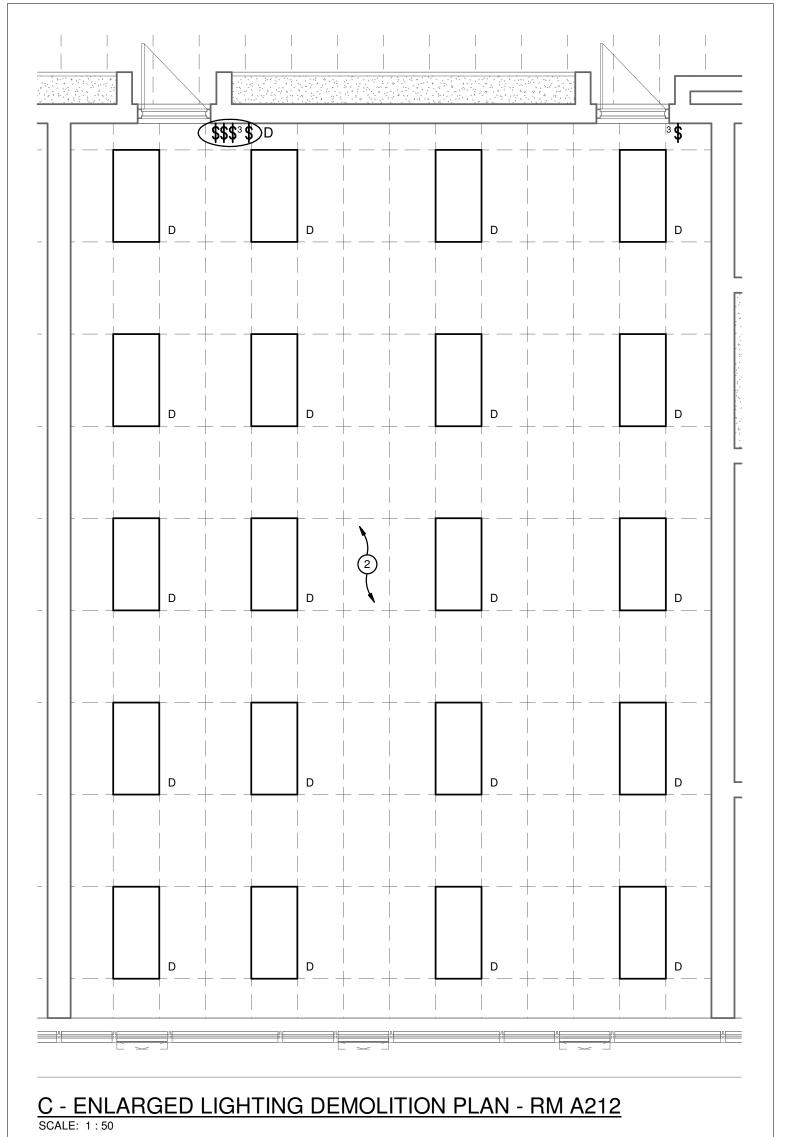


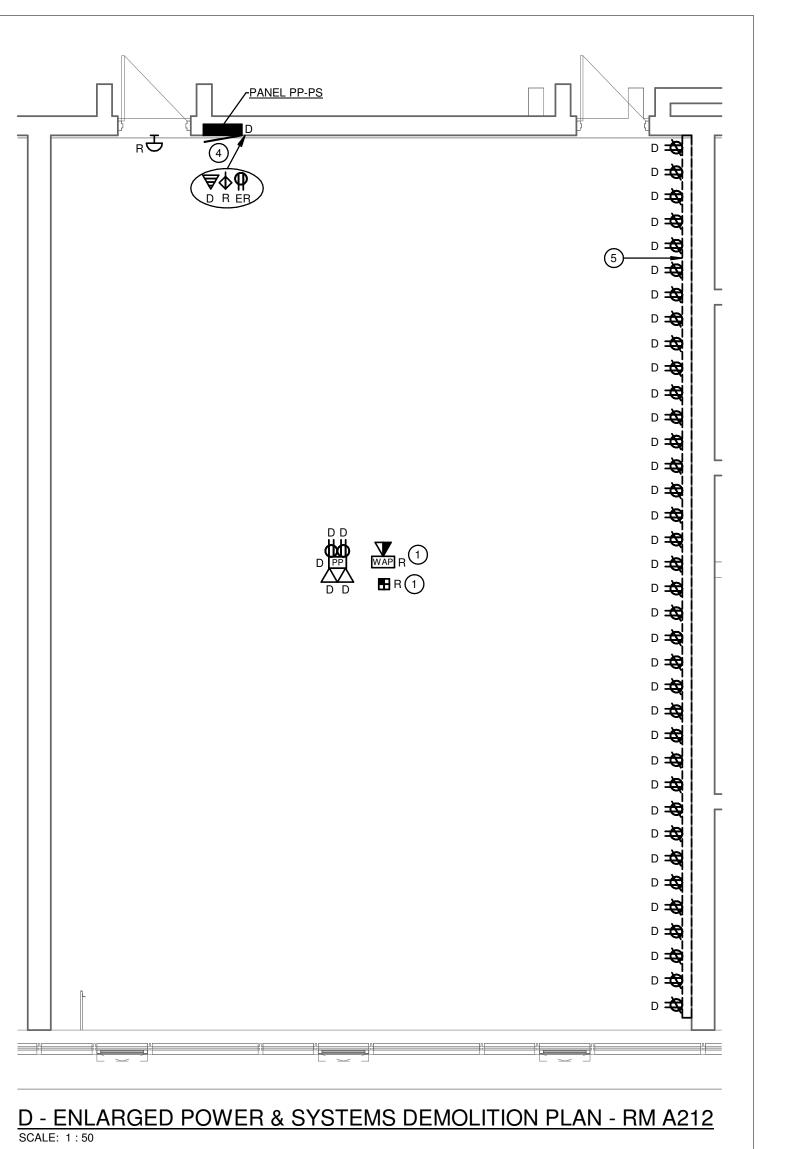
PROJECT NUMBER 24162

SHEET SIZE









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.

SPECIFIC NOTES

- ELECTRICAL CONTRACTOR SHALL INCLUDE AS PART OF THEIR BASE BID PRICE TO REMOVE AND REINSTALL INDICATED DEVICE TO ACCOMMODATE NEW CEILING AND FIXTURES. REWORK/EXTEND EXISTING WIRING AS REQUIRED TO SUIT NEW LOCATION OF EXISTING DEVICE AS SHOWN ON RENOVATION PLANS. EXISTING FIXTURES WITHIN AREA SHOWN SHALL BE
- DISCONNECTED AND REMOVED COMPLETE. MAINTAIN, REWORK AND EXTEND EXISTING CIRCUIT AS REQUIRED TO SUIT NEW FIXTURES AS SHOWN ON RENOVATION DRAWINGS FOR A COMPLETE WORKING SYSTEM.

INDICATES EXISTING IT SERVER EQUIPMENT AND

COMMUNICATION PATCH PANEL(S) TO REMAIN. INDICATES EXISTING RECESSED RECEPTACLE PANEL -120/ 240V, 1PH 3W, 100A MAINS TYPE NBLP, 14 CCT FED FROM EXISTING SOURCE DISTRIBUTION PANEL DP-4 TO BE REMOVED COMPLETE. CONTRACTOR SHALL REMOVE EXISTING FEEDER BACK TO SOURCE PANEL AND UTILIZE SAME PATHWAY FOR NEW FEEDER TO BE INSTALLED AND CONNECTED TO NEW PANEL AS SHOWN ON RENOVATION

PROVIDE NEW FINISH INSERT IN WALL C/W COLOUR FINISH

TO MATCH EXISTING BLOCK WALL FOR REMOVED PANEL.
COORDINATE FINISH REQUIREMENTS WITH OWNER, ARCHITECT AND CONSULTANT. INDICATES EXISTING SURFACE MOUNTED RACEWAY C/W DEVICES AS SHOWN TO BE REMOVED AS PART OF THIS

SCOPE OF 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 Inc.

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1	ISSUED FOR 50% PROGRESS	2024.01.14
2	ISSUED FOR 75% REVIEW	2025.01.31
3	ISSUED FOR PERMIT/TENDER	2025.03.05
4	ISSUED FOR CONSTRUCTION	2025.05.14



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

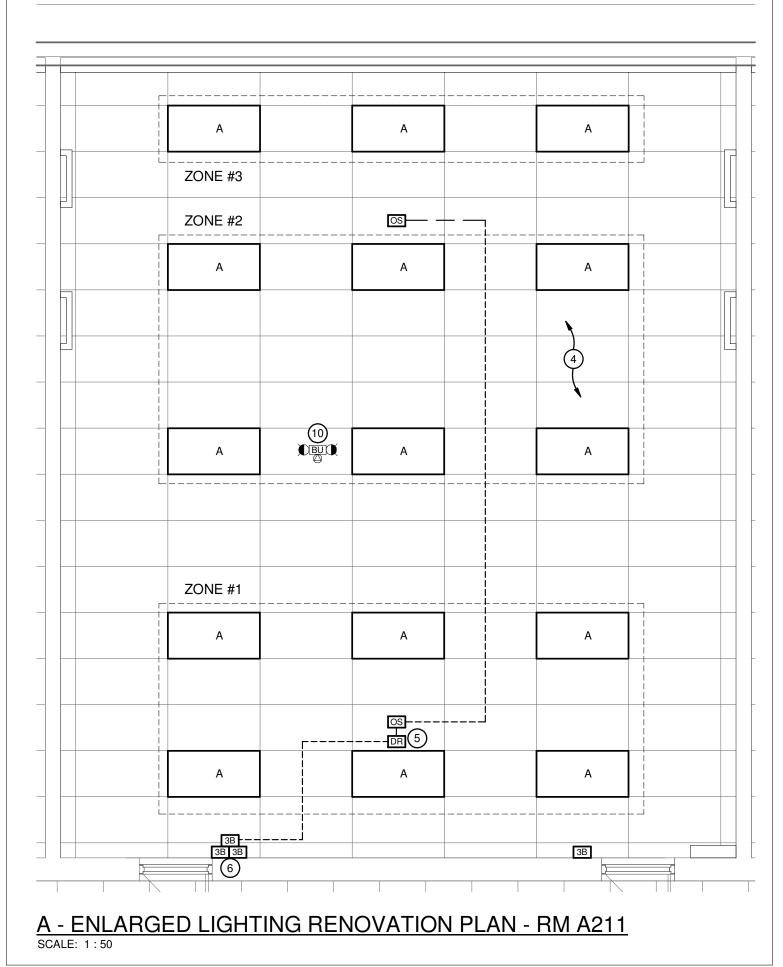
ENLARGED PLANS (1 OF 4)

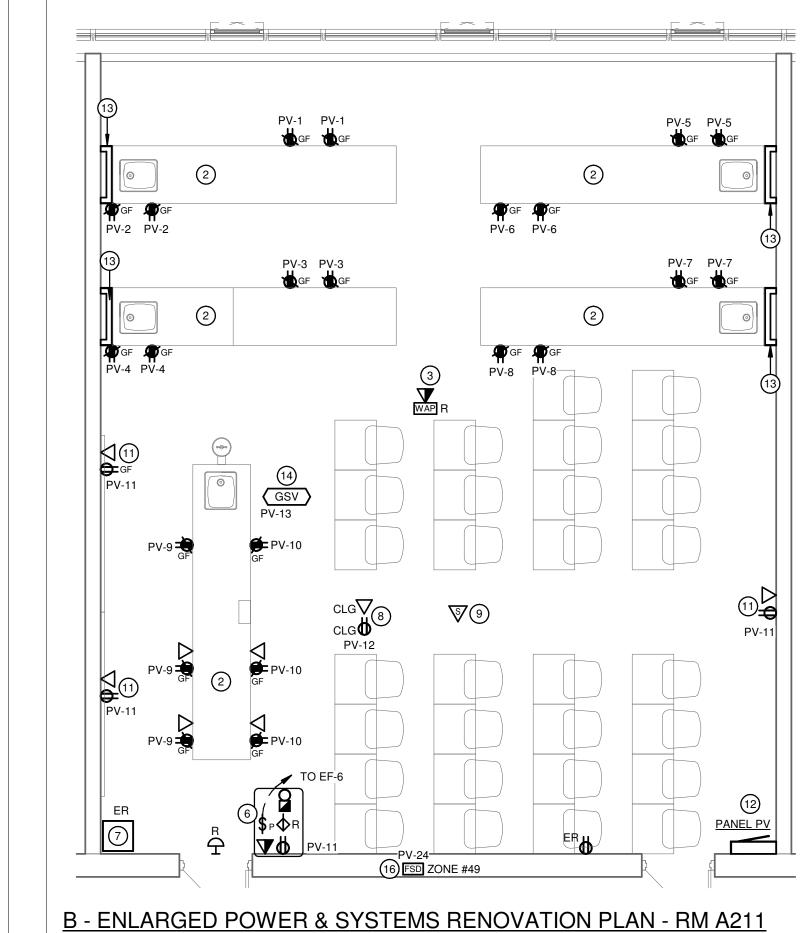
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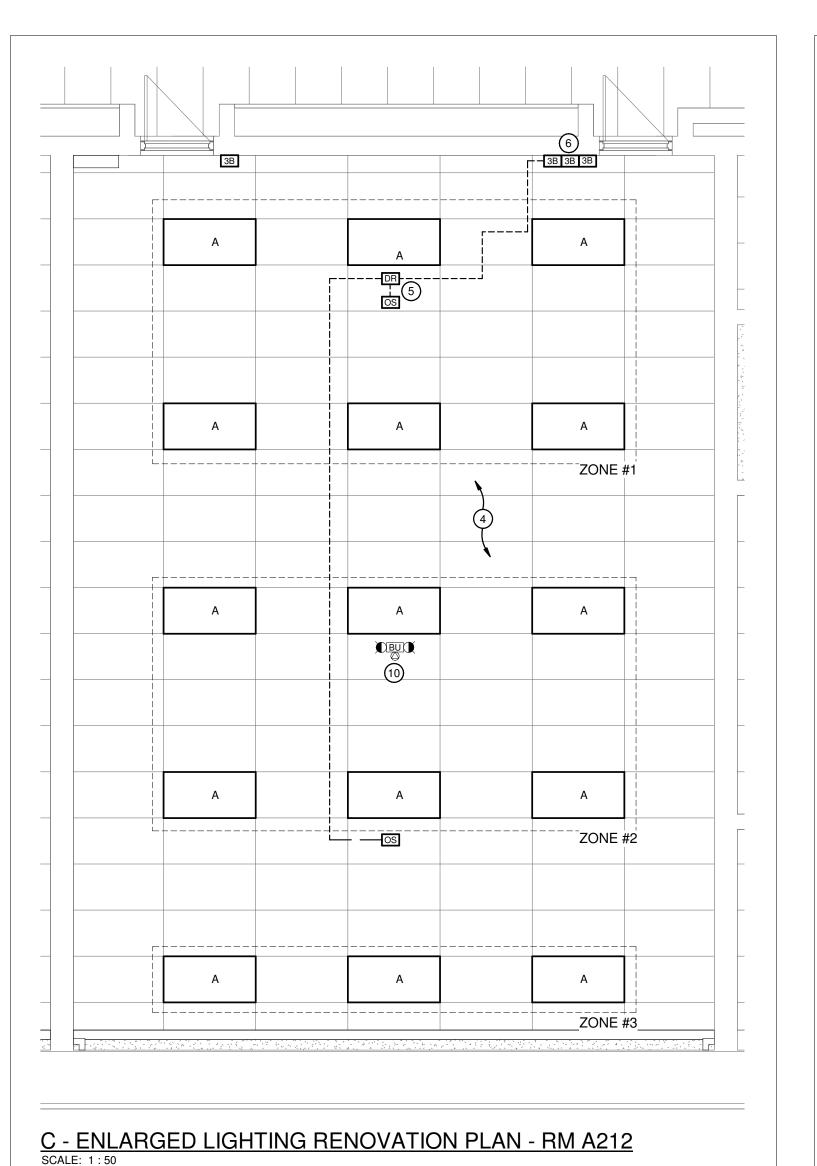
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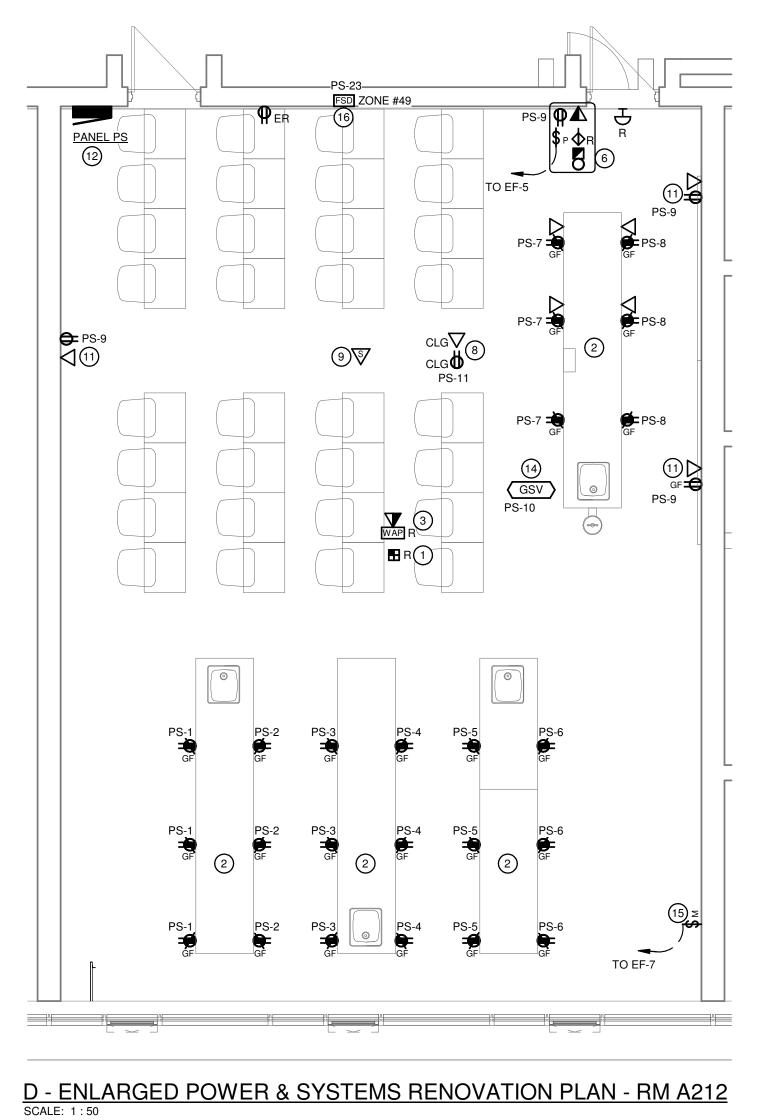
E301 PROJECT NUMBER

24162









GENERAL NOTES - RENOVATION

- 'ER' INDICATES EXISTING ITEM TO REMAIN

- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.

SPECIFIC NOTES

- 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
- OPERATION. ALL DEVICES LOCATED IN LAB BENCHES SHALL BE MOUNTED IN BLANK VERTICAL FACES OF MILLWORK. HOLES IN LAB BENCHES SHALL BE CUT BY THE MILLWORK CONTRACTOR AND COORDINATED BY THE ELECTRICAL
- INDICATED DEVICE SHALL BE REINSTALLED TO ACCOMMODATE NEW CEILINGS AND FIXTURES. REWORK/EXTEND EXISTING WIRING MADE AVAILABLE
- UTILIZE EXISTING LOCAL LIGHTING CIRCUIT MADE AVAILABLE FROM DEMOLITION FOR AREA NOTED AND
- INDICATES DIGITAL ROOM CONTROLLER TO BE INSTALLED IN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED OCCUPANCY SENSORS. REFER TO LIGHTING CONTROL
- INDICATES DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL. REFER TO DETAIL B/E102.
- COMMUNICATION PATCH PANEL(S) TO REMAIN. INDICATES DEVICES TO BE PROVIDED FOR OWNER'S CEILING MOUNTED PROJECTOR. CONFIRM EXACT
- INDICATES PUBLIC ADDRESS SPEAKER TO BE CONNECTED TO PUBLIC ADDRESS NETWORK FOR A COMPLETE WORKING SYSTEM. COORDINATE WITH SCHOOL PUBLIC ADDRESS CONTRACTOR PRIOR TO INSTALLATION.
- 10 CONNECT TO UNSWITCHED SIDE OF EXISTING LOCAL LIGHTING CIRCUIT. PROVIDE NEW DEVICES INDICATED C/W SURFACE MOUNT RACEWAY VIA WIREMOLD ONTO EXISTINGWALL PARITION
- REQUIREMENTS. INDICATES NEW PANEL TO BE RECESSED INTO CHASE WALL PROVIDED BY ARCHITECT. REFER TO
- INDICATES PROPOSED CHASE TO TRANSITION BRANCH
- CONTRACTOR PRIOR TO INSTALLATION. INDICATED MECHANICAL EQUIPMENT TO BE INSTALLED WITHIN MILLWORK BY MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. CONFIRM EXACT LOCATION TO INSTALL FAN MOTOR
- FIRE/SMOKE DAMPER C/W INTEGRAL SMOKE DETECTOR. REFER TO FIRE ALARM SPECIFICATIONS AND TO RISER DIAGRAM FOR FURTHER DETAILS. COORDINATE EXAC LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO

ROUGH-IN.

ALL CONDUIT AND WIRING FOR DEVICES LOCATED UNDERNEATH FLOOR SLAB. COORDINATE DETAILS AND REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

REQUIREMENTS.

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

- CONFORMANCE WITH CAN/ULC-S537 "VERIFICATION OF FIRE ALARM SYSTEMS" TO ENSURE SATISFACTORY
- CONTRACTOR FOR INSTALLATION OF DEVICES. COORDINATE REQUIREMENTS WITH OWNER PRIOR TO
- DURING REMOVAL AS REQUIRED TO SUIT.
- CONNECT TO NEW LIGHT FIXTURE(S) AND CONTROLS AS SHOWN FOR A COMPLETE WORKING SYSTEM.
- INDICATES EXISTING IT SERVER EQUIPMENT AND
- LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE NEW EMERGENCY BATTERY UNIT SHOWN AND
- TO CONCEAL WIRING. COORDINATE ROUTING OF RACEWAR WITH TEACHER'S WHITEBOARD LAYOUT AND OWNER PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND
- ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS AND
- CIRCUIT WIRING INTO MILLWORK. COORDINATE REQUIREMENTS WITH ARCHITECT AND MILLWORK
- COORDINATE EXACT LOCATION ON SITE WITH
- SWITCH ON SITE WITH MECHANICAL CONTRACTOR AND OWNER PRIOR TO ROUGH-IN. PROVIDE 120V POWER AND FIRE ALARM CONNECTIONS TO

IN LAB BENCHES SHALL BE INSTALLED

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



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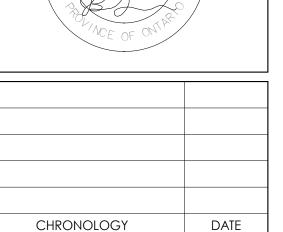
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NO.	REVISIONS	DAIL
1	ISSUED FOR PERMIT/TENDER	2025.03.05
2	ISSUED FOR CONSTRUCTION	2025.05.14
		1



/14 MAY 2025

J. BINGHAM

100223177







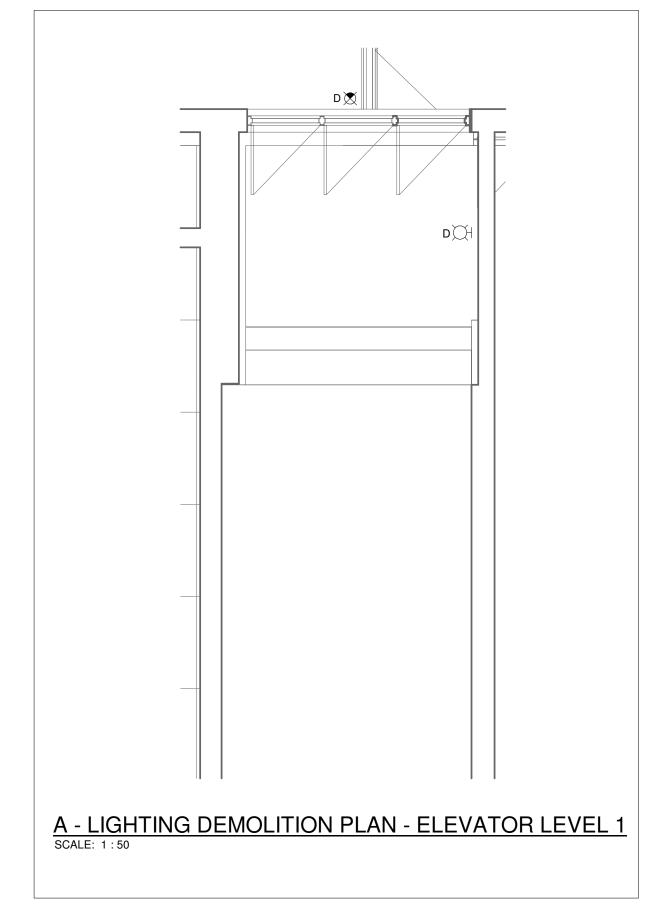
GLENVIEW PARK SECONDARY SCHOOL **HVAC IMPROVEMENTS** 55 McKay St., Cambridge, ON, N1R 4G8

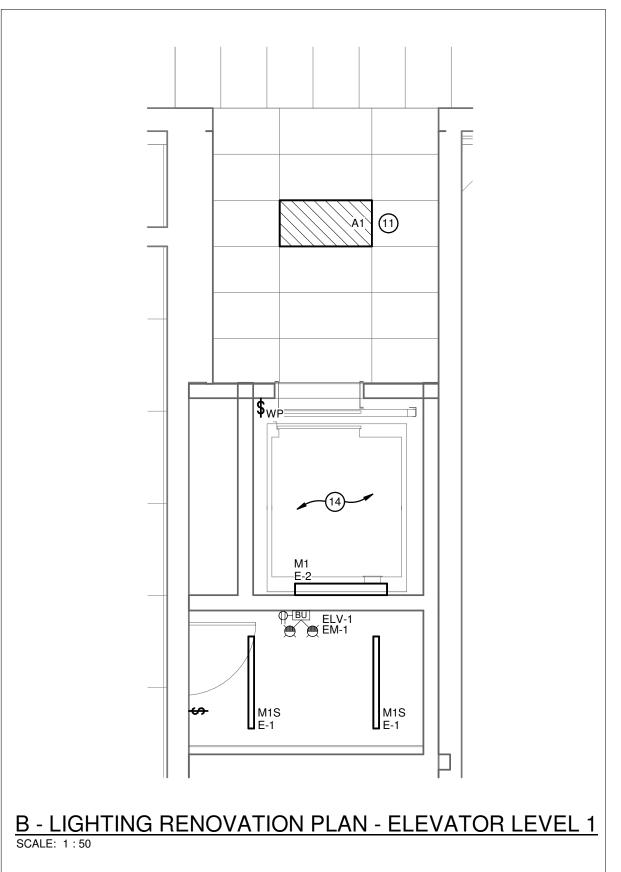
ENLARGED PLANS (2 OF 4)

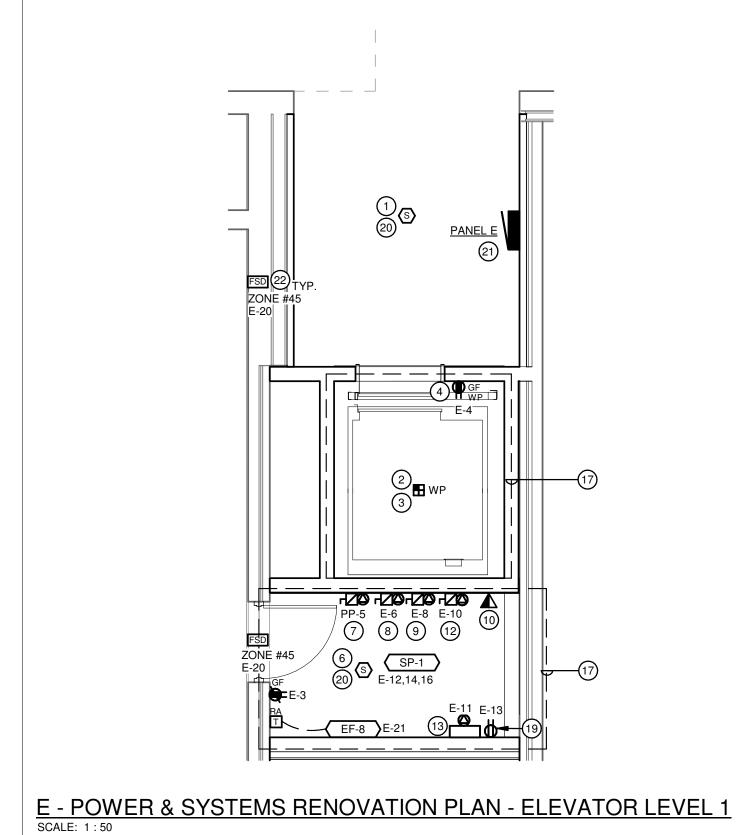
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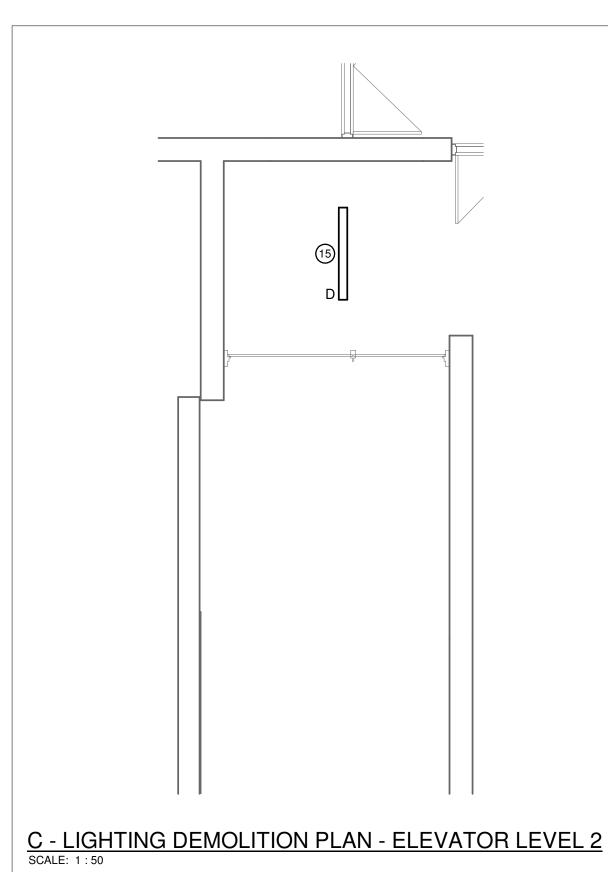
SHEET SIZE E302 PROJECT NUMBER 24162

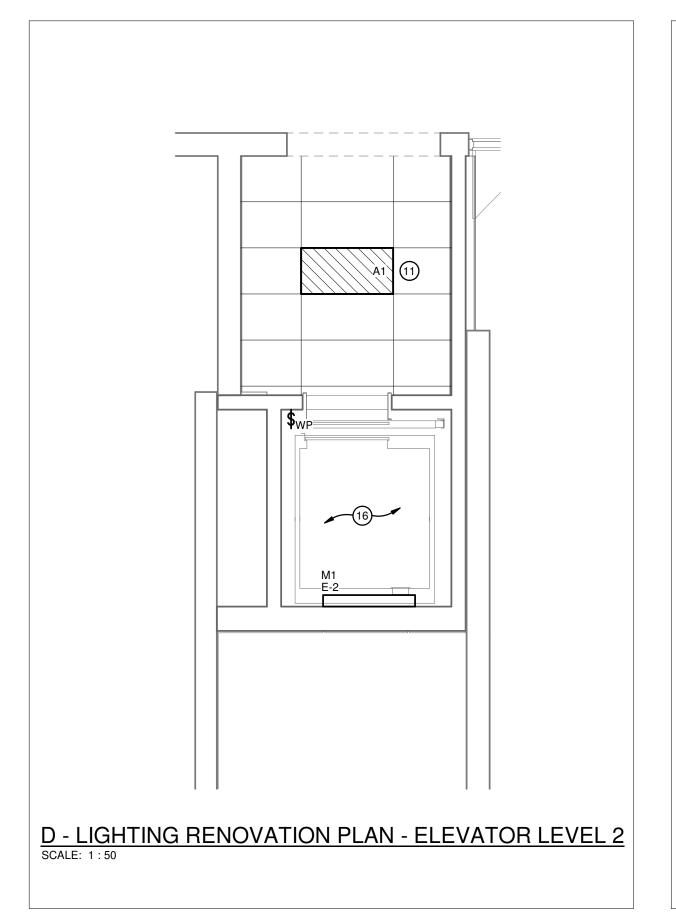
DRAWING NUMBER

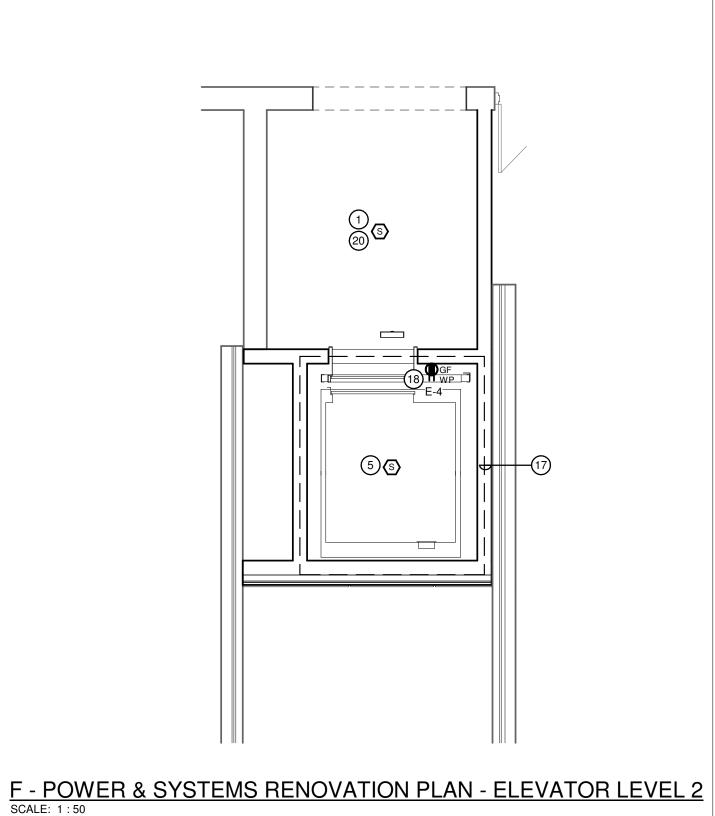












NOTES: CIRCUIT LABELS

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 - DEMOLITION

'ER' INDICATES EXISTING ITEM TO REMAIN.
 EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL

- 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.

NOTED.

- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.

ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE

MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
 REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC NOTES

PROVIDE PROGRAMMING TO INITIATE ELEVATOR RECALL SEQUENCE WHEN ELEVATOR LOBBY SMOKE DETECTOR IS ACTIVATED. PROVIDE REQUIRED COMPONENTS, WIRING ACCESSORIES TO ELEVATOR CONTROLLER.

PROVIDE PROGRAMMING TO INITIATE ELEVATOR RECALL

SEQUENCE WHEN ELEVATOR PIT HEAT DETECTOR IS
ACTIVATED. PROVIDE REQUIRED COMPONENTS, WIRING
ACCESSORIES TO ELEVATOR CONTROLLER.

INDICATES NEW HEAT DETECTOR TO BE TIED INTO
EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL
RE-WORK AND EXTEND EXISTING LOCAL INITIATING
CIRCUIT AND CONNECT TO NEW DEVICE FOR A COMPLETE

WORKING SYSTEM. MOUNT HEAT DETECTOR OFF BACK

WALL OF ELEVATOR PIT. PROVIDE PROTECTIVE CAGE.

INDICATES RECEPTACLE TO BE MOUNTED IN ELEVATOR
PIT. COORDINATE EXACT LOCATION AND MOUNTING
HEIGHT ON SITE WITH ELEVATOR CONTRACTOR PRIOR TO
ROUGH-IN.

INDICATES NEW SMOKE DETECTOR TO BE TIED INTO EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL RE-WORK AND EXTEND EXISTING LOCAL INITIATING CIRCUIT AND CONNECT TO NEW DEVICE FOR A COMPLETE WORKING SYSTEM. MOUNT SMOKE DETECTOR INDICATED AT TOP OF ELEVATOR SHAFT.

PROVIDE PROGRAMMING TO INITIATE ELEVATOR RECALL SEQUENCE WHEN ELEVATOR MACHINE ROOM SMOKE DETECTOR IS ACTIVATED. PROVIDE REQUIRED COMPONENTS, WIRING ACCESSORIES TO ELEVATOR CONTROLLER.

PROVIDE 208V 3PH POWER ALONG WITH FUSED
DISCONNECT (C/W TWO SETS OF AUXILIARY CONTACTS)
FOR ELEVATOR CONTROLLER. REFER TO DISTRIBUTION
RISER DIAGRAM FOR FURTHER DETAILS AND
REQUIREMENTS. COORDINATE WITH ELEVATOR SHOP
DRAWINGS PRIOR TO ROUGH-IN. ELECTRICAL
CONTRACTOR IS RESPONSIBLE FOR CONNECTION TO
ELEVATOR CONTROLLER.

PROVIDE 120V POWER ALONG WITH 30A-1P FUSIBLE
DISCONNECT C/W 15A CLASS 'J' FUSE FOR ELEVATOR CAB
LIGHTING. COORDINATE WITH ELEVATOR SHOP
DRAWINGS PRIOR TO ROUGH-IN.

PROVIDE 30A-1P FUSIBLE DISCONNECT C/W 15A FUSE FOR ELEVATOR COMMUNICATION DISCONNECT. CONNECT TO CIRCUIT INDICATED. CONFIRM EXACT LOCATION/REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGH-IN.

PROVIDE TELEPHONE/DATA OUTLET (ROUGH-IN ONLY) TO SUIT ELEVATOR SUPPLIER'S REQUIREMENTS.

10 COORDINATE EXACT LOCATION OF TELEPHONE/DATA OUTLET WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGH-IN.

INDICATES NEW NIGHT LIGHT FIXTURE TO BE ON 24/7.

CONNECT FIXTURE TO UNSWITCHED SIDE OF EXISTING LOCAL LIGHTING CIRCUIT.

PROVIDE 30A-1P FUSIBLE DISCONNECT C/W 15A FUSE FOR ELEVATOR TANK COOLER DISCONNECT. CONNECT TO CIRCUIT INDICATED. CONFIRM EXACT LOCATION/REQUIREMENTS WITH ELEVATOR SHOP

DRAWINGS PRIOR TO ROUGH-IN.

INDICATES ELEVATOR SUMP PUMP CONTROL PANEL.

COORDINATE DETAILS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

INDICATES LIGHT FIXTURE AND SWITCH TO BE MOUNTED
IN ELEVATOR PIT. COORDINATE EXACT LOCATION TO
MOUNT FIXTURE AND SWITCH ON SITE WITH ELEVATOR
CONTRACTOR.

INDICATED FIXTURE SHALL BE DISCONNECTED AND REMOVED COMPLETE. MAINTAIN, REWORK AND EXTEND EXISTING CIRCUIT AS REQUIRED TO SUIT NEW FIXTURES AS SHOWN ON RENOVATION DRAWINGS FOR A COMPLETE WORKING SYSTEM.

INDICATES LIGHT FIXTURE AND SWITCH TO BE MOUNTED

6 INDICATES LIGHT FIXTURE AND SWITCH TO BE MOUNTED AT TOP OF ELEVATOR SHAFT. COORDINATE EXACT LOCATION TO MOUNT FIXTURE AND SWITCH ON SITE WITH ELEVATOR CONTRACTOR.

CONTRACTOR TO UPDATE EXISTING ANNUNCIATOR ZONE SCHEDULE AND PASSIVE GRAPHICS WITH NEW ZONE. REFER TO ANNUNCIATOR ZONE SCHEDULE AND FIRE ALARM RISER DIAGRAM FOR FURTHER DETAILS. ALL NEW FIRE ALARM DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524 "INSTALLATION OF FIRE ALARM SYSTEMS" AND VERIFIED IN CONFORMANCE WITH CAN/ULC-S537 "VERIFICATION OF FIRE ALARM

SYSTEMS TO ENSURE SATISFACTORY OPERATION.

INDICATES RECEPTACLE TO BE MOUNTED AT TOP OF ELEVATOR SHAFT. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE WITH ELEVATOR

19 CONTRACTOR PRIOR TO ROUGH-IN.
INDICATES RECEPTACLE TO BE PROVIDED BY ELECTRICAL CONTRACTOR FOR SUMP PUMP HIGH LEVEL ALARM.
COORDINATE EXACT LOCATION AND DETAILS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

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.

INDICATES NEW PANEL TO BE RECESSED INTO BLOCK

21 WALL. COORDINATE DETAILS AND REQUIREMENTS WITH
ARCHITECT PRIOR TO ROUGH-IN.

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.

PROJECT

revisions

DATE

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before

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

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commencement of the work.

to meet the required conditions.

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	1	ISSUED FOR 50% PROGRESS	2024.01.14
ΙГ	2	ISSUED FOR 75% REVIEW	2025.01.31
	3	ISSUED FOR PERMIT/TENDER	2025.03.05
	4	ISSUED FOR ADDENDUM 02	2025.03.24
	5	ISSUED FOR CONSTRUCTION	2025.05.14
L			



CHRONOLOGY	DATE







PROJECT NAME

GLENVIEW PARK
SECONDARY SCHOOL
HVAC IMPROVEMENTS

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

DRAWING TITLE

ENLARGED PLANS (3 OF 4)

CALE
As Indicated

SHEET SIZE

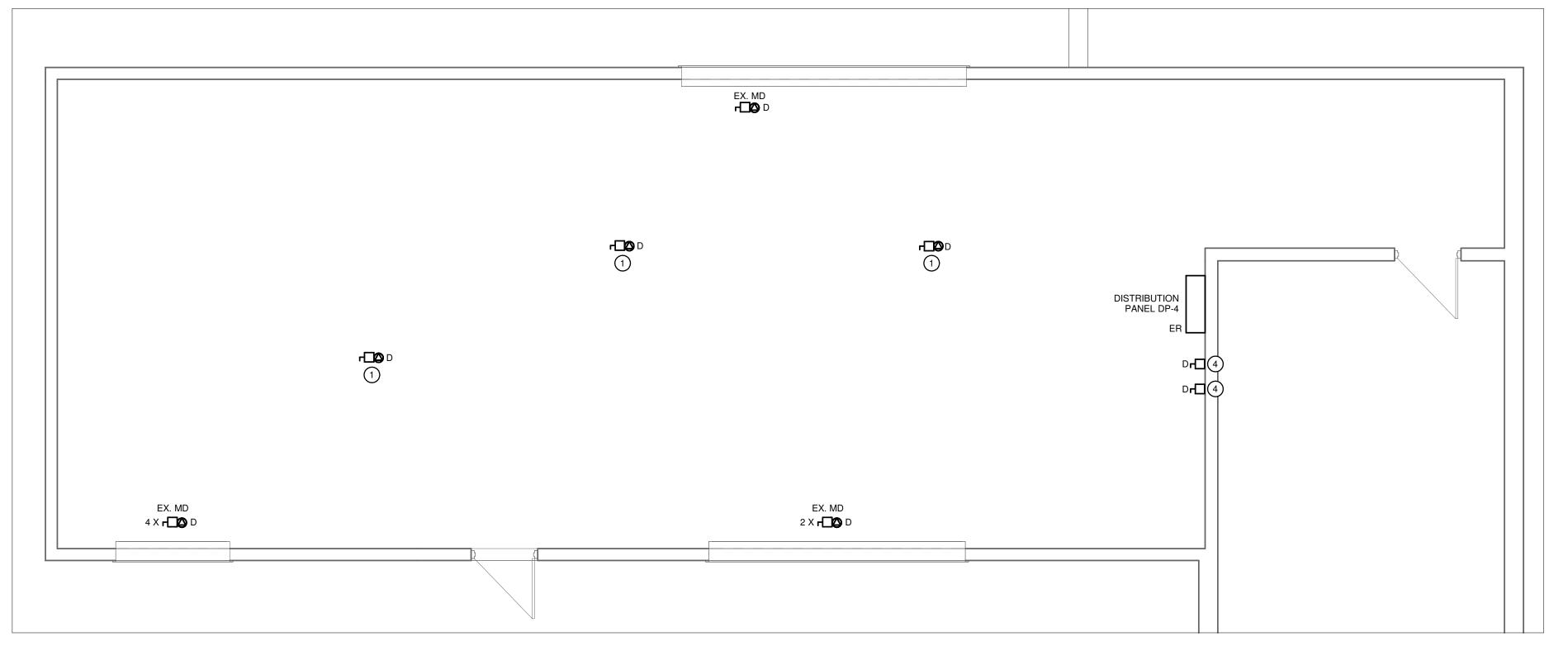
E303

DRAWING NUMBER

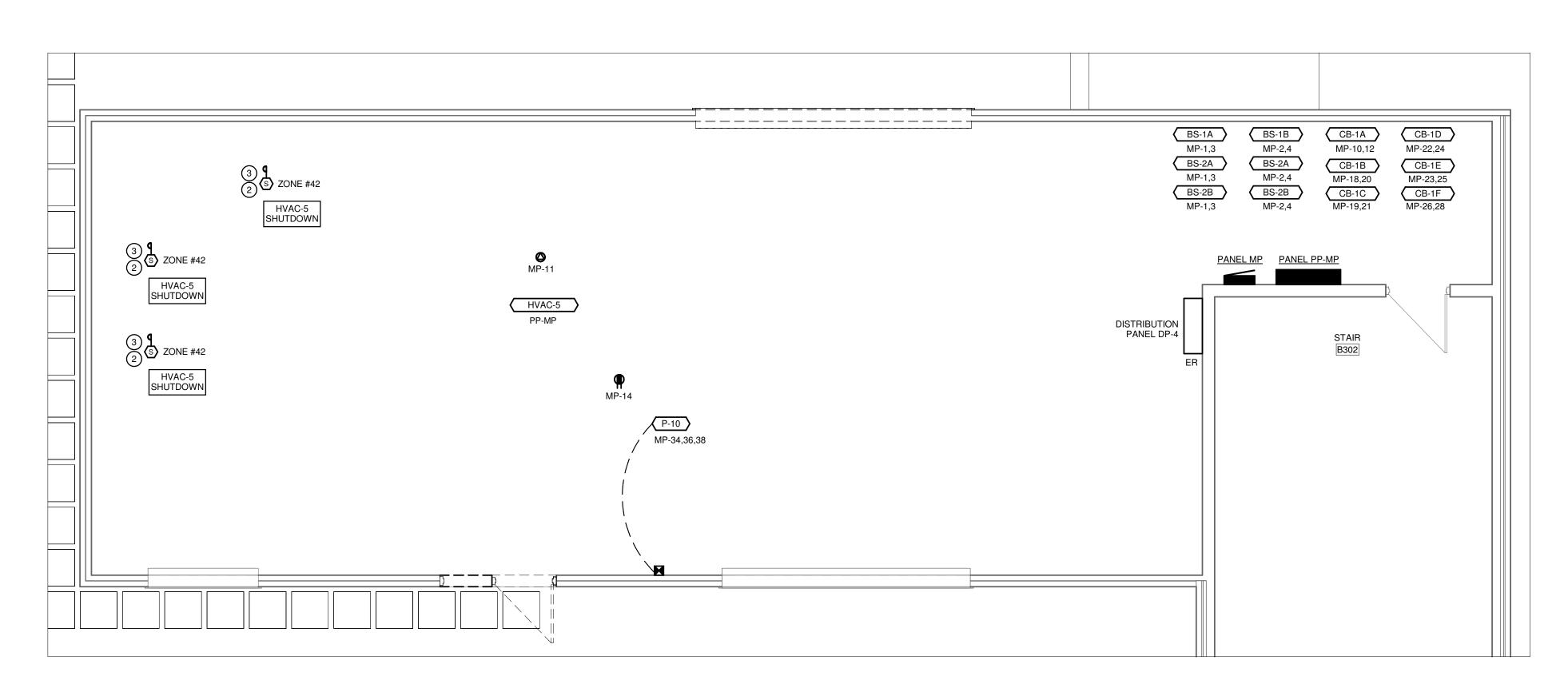
24X36

PROJECT NUMBER
24162

5/2025 10:07:31 AM C:_Revit\24162 WRDSB Glenview Park SS Elec Ce



A - ROOF - MECHANICAL ROOM - POWER & SYSTEMS - DEMOLITION PLAN



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 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

- 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 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. CONNECT NEW FIRE ALARM INITIATING DEVICE TO EXISTING LOCAL INITIATING CIRCUIT.RE-VERIFY PORTIONS OF ALARM SYSTEM TO CAN/ULC-S537. REFER TO
- REQUIREMENTS. INDICATES EXISTING EXHAUST FAN DISCONNECT SWITCH TO BE REMOVED AS PART OF THIS SCOPE OF WORK.

SPECIFICATIONS FOR FURTHER DETAILS AND

COORDINATE EXACT LOCATION AND DETAILS WITH MECHANICAL CONTRACTOR.

commencement of the work. The drawings show general arrangement of services.
Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT/TENDER	2025.03.05
3	ISSUED FOR ADDENDUM 01	2025.03.20
4	ISSUED FOR ADDENDUM 03	2025.04.01
5	ISSUED FOR CONSTRUCTION	2025.05.14









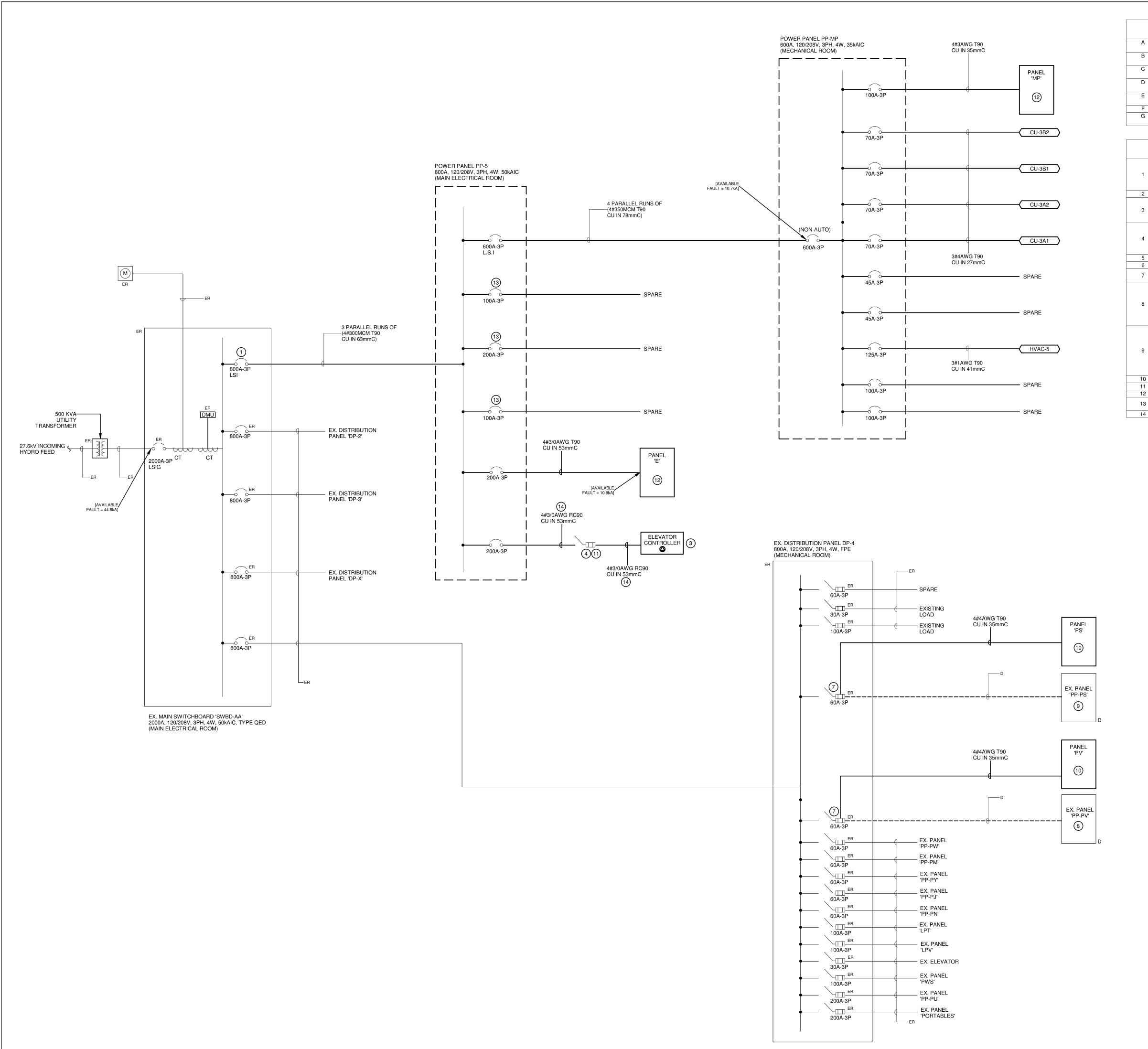
GLENVIEW PARK SECONDARY SCHOOL HVAC IMPROVEMENTS 55 McKay St., Cambridge, ON, N1R 4G8

ENLARGED PLANS (4 OF 4)

As Indicated

DRAWING NUMBER

SHEET SIZE E304



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.
- 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

- 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
- NOT USED.

 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.

 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)
- (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.
- 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.
 - 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
- 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
- 12 INDICATES RECEPTACLE PANEL 120/208V, 3PH/4W, 225A MAINS, 25KAIC

 12 INDICATES PREPARED SPACE FOR FUTURE BREAKER. PROVIDE ALL REQUIRED MOUNTING
- HARDWARE AND ACCESSORIES.

 INDICATES ELEVATOR FEED IS TO BE FIRE RATED CABLE.

errors and discrepancies to the Consultant before commencement of the work.

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

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The contractor shall verify all dimensions and report all



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1	ISSUED FOR 50% PROGRESS	2024.01.14
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5	ISSUED FOR ADDENDUM 02	2025.03.24
6	ISSUED FOR ADDENDUM 03	2025.04.01
7	ISSUED FOR PERMIT	2025.05.06
8	ISSUED FOR CONSTRUCTION	2025.05.14







MECHANICAL | ELECTRICAL | AQUATIC



PROJECT NAMI

GLENVIEW PARK
SECONDARY SCHOOL
HVAC IMPROVEMENTS

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

DRAWING TITL

DISTRIBUTION RISER DIAGRAM -RENOVATION

As Indicated

SHEET SIZE

DRAWING NUMBER

_| E401

	MAINS: 225 A MOUNTING: SURFACE		/OLTAC RAL BU			V 3PH4W		INTEF	RRUPTING CAPACITY: 25 KAIC ENCLOSURE: TYPE 2	
	MOORTING. SOLITAGE	NLOT	IIAL DO	. 100	76				ENOLOGONE. THE 2	
KT	Load Name	Туре	Rating	Poles	A B	C Poles	Rating	Туре	Load Name	СКТ
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
1	SUMP PUMP CONTROL PANEL		15 A	1						12
3	SUMP PUMP ALARM RECEPTACLE		15 A	1		3	15 A		SUMP PUMP (SP-1)	14
5	DOOR OPERATOR LEVEL 1 STAIR		15 A	1						16
7	DOOR HOLD OPEN		15 A	1		1	20 A		NEUTRALIZING TANK RECEPTACLE A118	18
9	FIRE SMOKE DAMPER - RM A205		15 A	1		1	15 A		FIRE SMOKE DAMPER - ELEVATOR WING	20
1	EXHAUST FAN (EF-8)		15 A	1						22
:3										24
:5										26
7										28
9										30
1										32
3										34
5										36
7										38
9										40
1										42
3										44
5										46
7										48
9										50
1										52
3										54
5	SPARE		15 A	1		1	20 A		SPARE	56
7	SPARE		15 A	1		1	20 A		SPARE	58
59	SPARE		15 A	1		1	20 A		SPARE	60

	MAINS: 100 A MOUNTING: SURFACE		VOLTAC			V8	3PF	H4W		INTEF	RRUPTING CAPACITY: 10 KAIC ENCLOSURE: TYPE 2	
	MOUNTING: SURFACE	NEUI	KAL D	J S: 10	10%						ENCLOSURE: TYPE 2	
СКТ	Load Name	Туре	Rating	Poles	A	В	С	Poles	Rating	Туре	Load Name	CK
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

	MAINS: 100 A MOUNTING: SURFACE		RAL BI			8V :	3PI	H4W		INTER	RRUPTING CAPACITY: 10 KAIC ENCLOSURE: TYPE 2	
СКТ	Load Name	Туре	Rating	Poles	Α	В	С	Poles	Rating	Туре	Load Name	СК
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

MAINS: 225 A MOUNTING: SURFACE N				GE: 120 US: 100		8V 3F	PH4W		INTERRUPTING CAPACITY: 25 KAIC ENCLOSURE: TYPE 2			
СКТ	Load Name	Туре	Rating	Poles	Α	ВС	Poles	Rating	Туре	Load Name	СКТ	
1	BRANCH SELECTOR CU-4A		15 A	2			2	15 A		BRANCH SELECTOR CU-4B	2	
3 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	П			1071			10	
11	MARINE LIGHTS		15 A	1			2	15 A		CONTROL BOX CB	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				15 A		CONTROL BOX GB	20	
21	GONTHOE BOX OB		13 A				2	15 A		CONTROL BOX CB	22	
23	CONTROL BOX CB		15 A	2				1071		OCIVITICE BOX OF	24	
25	33			_			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 36	
37	ROOF EXHAUST FAN (EF-7)		15 A	3			3	13 A		TIVAC-3 CINCOLATION FOME (F-10)	38	
39	11001 27(11)001 17(11(11.7)		107								40	
41											42	
43											44	
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NOTES:			1	1	1				<u> </u>	1		

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

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

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

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Do not scale this drawing.

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No.	REVISIONS	DATE
1	ISSUED FOR 75% REVIEW	2025.01.31
2	ISSUED FOR PERMIT/TENDER	2025.03.05
3	ISSUED FOR ADDENDUM 01	2025.03.20
4	ISSUED FOR ADDENDUM 02	2025.03.24
5	ISSUED FOR ADDENDUM 03	2025.04.01
6	ISSUED FOR CONSTRUCTION	2025.05.14

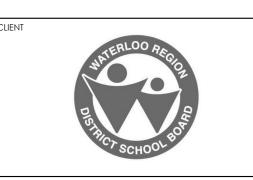


DATE



CHRONOLOGY





PROJECT NAME

GLENVIEW PARK
SECONDARY SCHOOL
HVAC IMPROVEMENTS

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

AWING TITLE

PANEL SCHEDULES

As Indicated

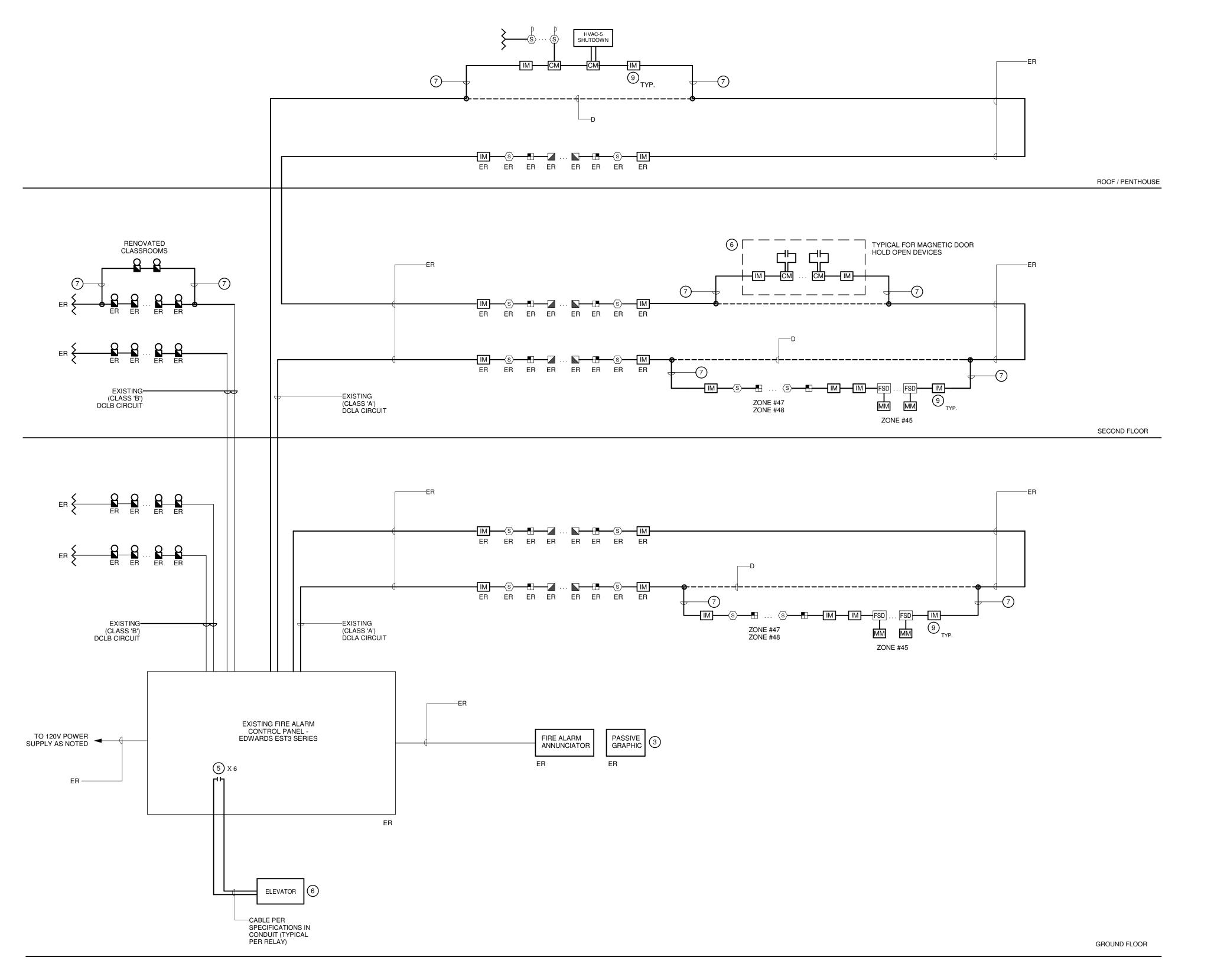
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DRAWING NUMBER

PROJECT NUMBER
24162

5/15/2025 10:07:33 AM C:_Revit\24162 WRDSB Glenview Park SS Elec Central (RVT23)_



BASEMENT

EXISTING FIRE ALARM RISER NOTES

- REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF DEVICES.
- RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, MODULES, ACCESSORIES AND MODIFY EXISTING INITIATING & SIGNALING CIRCUITS AS REQUIRED TO SUIT NEW ADDITIONAL DEVICES ADDED FOR A COMPLETE WORKING
- CONTRACTOR TO UPDATE PASSIVE GRAPHICS WITH NEW ZONES AS SHOWN ON EXISTING ANNUNCIATOR SHCEDULE. PROVIDE CONTROL ZONE RELAY MODULE FOR MAGNETIC DOOR HOLD OPEN DEVICES. REFER TO FLOOR PLANS FOR
- LOCATION AND ADDITIONAL REQUIREMENTS. DRY CONTACTS WITHIN ELEVATOR CONTROLLER SHALL BE PROVIDED BY THE ELEVATOR SUPPLIER. COORDINATE AND
- CONNECT ACCORDINGLY. WITHIN THE FIRE ALARM CONTROL PANEL, PROVIDE 6 NORMALLY OPEN DRY CONTACTS RATED FOR 1.0A AT 120VAC. PROVIDE WIRING AND CONNECTION FROM FIVE (5) OF THESE CONTACTS TO THE ELEVATOR CONTROLLER AS ONE CONTACT FOR EACH OF THE FOLLOWING (ONE SPARE CONTACT). THESE CONTACTS ARE TO CLOSE WHEN THE RESPECTIVE DEVICE(S) ARE
 - A) GENERAL BUILDING B) RECALL LANDING
 - C) TOP OF SHAFT D) BOTTOM OF SHAFT (PIT)
 - E) MACHINE ROOM
- INDICATES NEW FIRE ALARM DEVICES TO BE TIED INTO EXISTING FIRE ALARM SYSTEM. PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE 21mmC.
- REFER TO FIRE ALARM SYSTEM ANNUNCIATOR ZONE SCHEDULE FOR ADDITIONAL REQUIREMENTS. PROVIDE ZONE MODULES, CONTACTORS, ENCLOSURES AND DVRS AS REQUIRED.
- PROVIDE LINE ISOLATOR MODULES TO ISOLATE DCLA SEGMENTS ON A PER FIRE ALARM ZONE BASIS, ON A PER FLOOR BASES AND AS REQUIRED BY THE MANUFACTURER AND ONTARIO BUILDING CODE. PROVIDE ADDITIONAL LINE ISOLATORS AS REQUIRED OVER AND ABOVE THOSE SHOWN ON RISER DIAGRAM TO SATISFY ISOLATION REQUIREMENTS.
- NDICATES 120V POWER AND FIRE ALARM CONNECTIONS TO SMOKE/FIRE DAMPER WITH INTEGRAL SMOKE DETECTOR. REFER TO FIRE ALARM SPECIFICATIONS. COORDINATE EXACT LOCATION/CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. SMOKE/FIRE DAMPER AND ASSOCIATED INTEGRAL SMOKE DETECTOR TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE MONITORING MODULE(S) PER SMOKE/FIRE DAMPER TO 120V POWER SUPPLY CONNECTION TO THE DAMPER ACTUATOR AND INTEGRAL SMOKE DETECTOR ALARM AS SIGNAL. A TROUBLE CONDITION SHALL BE ACTIVATED DUE TO THE LOSS OF AC POWER AT THE MAIN CONTROL PANEL, CONSISTING OF AUDIBLE AND VISUAL TROUBLE SIGNAL UNTIL ACKNOWLEDGED BY OPERATOR. REFER TO DETAIL A/E501.

ZONE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	DESCRIPTION CAFETERIA BOILER RM GIRLS GYM MAIN OFFICE BOYS GYM AREA 1ST FLOOR CORR D1 AND BASEMENT TECHNOLOGY WING ENGLISH WING B1 2ND FLOOR ACADEMIC B2/D2 2ND FLOOR A2 FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARE SPARE	ALARM	SUPERVISORY	NEW	EX
2 3 4 5 6 7 8 9 10 11 12 13 14	MAIN OFFICE BOYS GYM AREA 1ST FLOOR CORR D1 AND BASEMENT TECHNOLOGY WING ENGLISH WING B1 2ND FLOOR ACADEMIC B2/D2 2ND FLOOR A2 FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE	•			
3 4 5 6 7 8 9 10 11 12 13 14	BOYS GYM AREA 1ST FLOOR CORR D1 AND BASEMENT TECHNOLOGY WING ENGLISH WING B1 2ND FLOOR ACADEMIC B2/D2 2ND FLOOR A2 FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE	•			
4 5 6 7 8 9 10 11 12 13 14	1ST FLOOR CORR D1 AND BASEMENT TECHNOLOGY WING ENGLISH WING B1 2ND FLOOR ACADEMIC B2/D2 2ND FLOOR A2 FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE	•			
5 6 7 8 9 10 11 12 13 14	TECHNOLOGY WING ENGLISH WING B1 2ND FLOOR ACADEMIC B2/D2 2ND FLOOR A2 FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE	•			
6 7 8 9 10 11 12 13 14	ENGLISH WING B1 2ND FLOOR ACADEMIC B2/D2 2ND FLOOR A2 FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE	•			
7 8 9 10 11 12 13 14	2ND FLOOR ACADEMIC B2/D2 2ND FLOOR A2 FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE	•			
8 9 10 11 12 13 14	2ND FLOOR A2 FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE	•			
9 10 11 12 13 14	FOOD SERVICES SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE				
10 11 12 13 14 15	SPRINKLER FLOW FOOD SERVICES SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE				
11 12 13 14 15	SPRINKLER FLOW WOODWORKING KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE				
12 13 14 15	KITCHEN CO2 SYSTEM SPARK ARRESTOR SPARE				
13 14 15	SPARK ARRESTOR SPARE		•		
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16	SPARE				
17	SPARE				
18	ELEV CORR & ELEV MACH RM				
19	ELEC SHAFT				
20	SPARE				
21	SPARE				
22	SPARE SPARE				
23					
24	PORTABLES	•			
25	SPARE				
26	SPARE				
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37	SPARE				
38	SPRINKLER FOOD SERVICES TAMPER		•		
39	SPRINKLER WOOD SHOP TAMPER		•		
40	SPARK ARRESTOR TROUBLE		•		
41	SPRINKLER MAIN INCOMING TAMPER		•		
42	HVAC-5 DUCT SMOKE DETECTOR	•		•	
43	SPARE	•		•	
44	DAMPER POWER LOSS		•		
45	FIRE SMOKE DAMPERS - 1ST FLOOR	•		•	
46	SPARE				
47	ELEVATOR PIT/SHAFT	•		•	
48	ELEVATOR MACHINE RM	•		•	

FIRE ALARM PARTIAL SEQUENCE OF **OPERATION – SINGLE STAGE:**

FIRE ALARM PARTIAL SEQUENCE OF OPERATION - SINGLE STAGE:

MONITORING AGENCY OF THE ALARM CONDITION.

THE EXISTING FIRE ALARM SYSTEM INCLUDES MODIFICATIONS WHICH CONSIST OF NOTIFICATION DEVICES, ALARM INITIATING DEVICES AND ANCILLARY CONNECTIONS AS INDICATED ON ELECTRICAL DESIGN DRAWINGS AND SPECIFICATIONS.

- 1 UPON ACTIVATION OF ANY ALARM INITIATING DEVICE (MANUAL STATION, HEAT DETECTOR, SMOKE DETECTOR, DUCT ETC.) SHALL CAUSE THE FOLLOWING FIRE ALARM SYSTEM ALARM ACTIONS:
- A ACTIVATE THE RESPECTIVE RED ALARM LED AT THE CONTROL PANEL(S) AND REMOTE ANNUNCIATOR PANEL(S). B CAUSE ZONE OF ALARM INITIATING DEVICE TO BE INDICATED AT THE CONTROLPANEL(S) AND REMOTE ANNUNCIATOR PANEL (S).
- C CAUSE AUXILIARY CONTACTS TO ACTIVATE AND INITIATE ELEVATOR RECALL PER CSA-B44 (EXCLUDING ALARM INITIATED BY MANUAL PULL STATIONS).
- D CAUSE AUXILIARY CONTACTS TO ACTIVATE AIR-HANDLING UNIT SHUT DOWN E CAUSE AUXILIARY CONTACTS TO ACTIVATE AND ELECTRO-MAGNETICALLY HELD OPEN DOORS TO CLOSE
- G ACTIVATE THE COMMON ALARM POINT TO SIGNAL THE LOCAL FIRE DEPARTMENT OR APPROVED CENTRAL
- H CAUSE THE ALARM AUDIBLE NOTIFICATION DEVICES TO SOUND A TEMPORAL 3 PATTERN THROUGHOUT THE BUILDING UNTIL SILENCED. I CAUSE THE VISUAL NOTIFICATION DEVICES TO ACTIVATE THROUGHOUT THE BUILDING UNTIL AUDIBLE ALARM IS
- SILENCED OR SYSTEM RESET. J LOG THE ALARM EVENT IN THE HISTORICAL EVENT LOG FILE.

ACKNOWLEDGE SWITCH.

- TROUBLE ACTIVATION

 1 OPERATION OF ANY SYSTEM OR DEVICE TROUBLE SIGNAL SHALL CAUSE THE FOLLOWING FIRE ALARM SYSTEM TROUBLE ACTIONS:
- A CAUSE AN AUDIBLE AND VISUAL TROUBLE SIGNAL AT THE CONTROL PANEL(S) AND REMOTE TROUBLE INDICATOR(S).
- B ACTIVATE THE COMMON TROUBLE POINT TO SIGNAL THE LOCAL FIRE DEPARTMENT OR APPROVED CENTRAL MONITORING AGENCY OF THE TROUBLE CONDITION.
- LOG THE ALARM EVENT IN THE HISTORICAL EVENT LOG FILE.
 - DESCRIBE THE NATURE OF THE TROUBLE ON THE CONTROL PANEL(S) LCD DISPLAY AND REMOTE ANNUNCIATOR PANEL(S). THE FOLLOWING SYSTEM AND DEVICE TROUBLE CONDITIONS SHALL BE MONITORED:
 - I OPEN CIRCUIT FAULT IN THE FIELD WIRING OF AN ADDRESSABLE LOOP. ADDRESSABLE DETECTION, SIGNAL MODULE, OR A SHORT CIRCUIT ON AN ADDRESSABLE LOOP, CONVENTIONAL DETECTION OR SIGNAL CIRCUIT.
 - II DISCONNECTION OR FAILURE OF THE STANDBY BATTERIES. III A GROUND FAULT CONDITION ON A LOOP OR SIGNAL CIRCUIT FIELD WIRE. IV FAILURE OF THE MAIN 120VAC POWER SUPPLIED TO THE PANEL.
 - V REMOVAL OR MALFUNCTION OF ANY ADDRESSABLE FIELD DEVICE OR ANY SUPERVISED PANEL MODULE OR
 - VI FIRE/SMOKE DAMPER MONITOR MODULE SIGNAL FOR LOSS OF AC POWER TO DAMPER ASSEMBLY

SYSTEM SILENCE 1 THE AUDIBLE NOTIFICATION DEVICES SHALL CONTINUE TO SOUND DURING ALARM CONDITIONS UNTIL MANUALLY OR

AUTOMATICALLY SILENCED. AUTOMATIC SILENCING SHALL NOT BE POSSIBLE DURING THE FIRST 5 MIN OF ALARM 2 THE CONTROL PANELS AND REMOTE BUZZERS SHALL BE SILENCED BY OPERATION OF THE PANELS

SYSTEM RESET

1 THE ALARM, SUPERVISORY AND TROUBLE CONDITIONS SHALL BE CLEARED ONLY UPON ACTIVATION OF THE FIRE ALARM CONTROL PANEL RESET SWITCH, AFTER THE DEVICE THAT INITIATED THE ALARM HAS BEEN CLEARED OR

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.

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No.	REVISIONS	DAIL
1	ISSUED FOR PERMIT/TENDER	2025.03.05
2	ISSUED FOR ADDENDUM 02	2025.03.24
3	ISSUED FOR CONSTRUCTION	2025.05.14







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MECHANICAL | ELECTRICAL | AQUATIC





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

PARTIAL FIRE ALARM RISER DIAGRAM AND ANNUNICIATOR **SCHEDULE**

As Indicated

DRAWING NUMBER

SHEET SIZE