UPPER LEVEL PART PLAN
SCALE: 1:150

OVERALL PLAN
SCALE: 1:150

ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED

LIGHTING	
X	LIGHT FIXTURE TYPE AS INDICATED
EM-X DC-X X-X	COMBINATION EMERGENCY/EXIT TYPE AS INDICATED (EM-X INDICATES BATTERY UNIT TYPE, DC-X INDICATES DC CIRCUIT, AND X-X INDICATES AC SOURCE CIRCUIT)
	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED
	WALL MOUNTED EXIT LIGHT SHADING INDICATES FACE
	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE
	SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE
	RECESSED EMERGENCY FIXTURE
$	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)
$OS	OCCUPANCY SENSOR (PASSIVE)
OS	CEILING MOUNTED MOTION SENSOR
DR	DIGITAL RELAY
DW	DIGITAL WALL DIMMER STATION
PK	POWER PACK

FIRE ALARM	
	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)
	SMOKE DETECTOR (RL=RELAY BASE)
	PULLSTATION
	ALARM BELL
	ALARM STROBE
IM	ISOLATED MODULE
RM	RELAY MODULE
CM	CONTROL MODULE

COMMUNICATIONS	
	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO CABLE MANAGEMENT SYSTEM.
WAP	WIRELESS ACCESS POINT. PROVIDE ¾" (21mm) C TO CABLE MANAGEMENT SYSTEM
	CLOCK AS PER SPECIFICATIONS
	WALL MOUNTED SPEAKER (CS=COLUMN SPEAKER)
	CEILING MOUNTED SPEAKER

POWER	
	WALL MOUNTED RECEPTACLE (15A-120V)
	WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)
	T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)
TFS	RECEPTACLE MTD. ABOVE COUNTER S=SPLIT (15A-120V)
	DIRECT CONNECTION
JB	JUNCTION BOX
	PANEL AS INDICATED
	DESTRATIFICATION FAN
	SURFACE RACEWAY C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)
	PUSH-BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)
S	SPEED CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
	FUSED DISCONNECT
	MOTOR CONNECTION
	MANUAL STARTER
	COMBINATION MAGNETIC STARTER
	TRANSFORMER
	CONTACTOR
RA	THERMOSTAT (RA=REVERSE ACTING)
SPD	SURGE PROTECTION DEVICE. REFER TO SPECIFICATIONS.

ACCESS CONTROL	
ML	MAG LOCK

GENERAL	
ER	INDICATED EXISTING ITEM TO REMAIN
D	INDICATES EXISTING ITEM TO BE DELETED
R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION
WG	WIREGUARD
GF	GROUND FAULT
WP	WEATHERPROOF
CLG	CEILING MOUNTED
X	NOTE INDICATOR
X	MECHANICAL ITEM NO.

STANDARD CIRCUIT LABELING

POWER PANEL LABEL
CIRCUIT INDICATION
SWITCH LEG (IF APPLICABLE)
A-1-1

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Professional Engineers Ontario
03-31-2026
Limited Engineering Licensee
Name: D.G. MCCONKEY
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Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction.
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no.	revision	date

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1	Issued for Coordination	2026.02.27
2	Issued for Permit & Tender	2026.03.31

project
WATERLOO REGION DISTRICT SCHOOL BOARD
BRESLAU PUBLIC SCHOOL
HVAC AND CLASSROOM RENOVATIONS
58 JOSEPH STREET, BRESLAU, ON N0B 1M0

drawing
OVERALL PLAN, DETAILS, SCHEDULES

drawing scale
AS NOTED

ward99 project number
25018 - BRESLAU PS WRDSB

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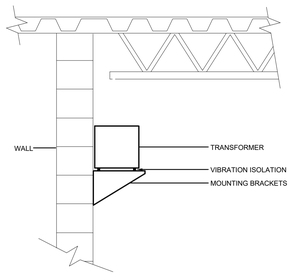
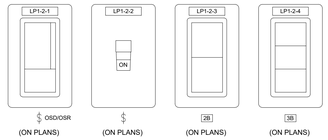
drawing no.
E101



A-TRANSFORMER MOUNTING DETAIL
SCALE: NTS



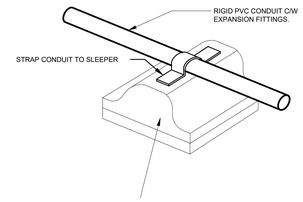
NOTES:

1 LIGHT SWITCHES ARE TO BE C/W P-TOUCH LABEL.

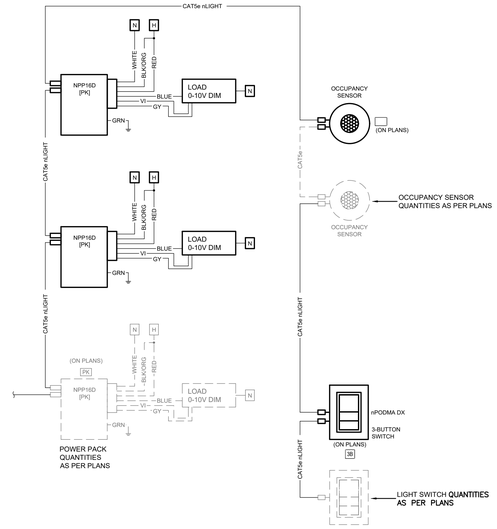
2 LABEL IS TO BE WHITE WITH TYPE-WRITTEN BLACK LETTERING AND PLACED CENTERLINE OF SWITCH AS SHOWN.

3 CIRCUIT DESCRIPTOR IS TO BE C/W POWER PANEL, CIRCUIT INDICATION, AND SWITCH LEG.

B-LIGHT SWITCH LABELLING DETAIL
SCALE: NTS



C-CONDUIT SUPPORT DETAIL
SCALE: NTS



D-LIGHTING SEQUENCE (LZ-9)
SCALE: NTS

LIGHT FIXTURE SCHEDULE

Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	CRI	Listings	Description
L1	COOPER CAT. #24CGTS-NUV LITHONIA CAT. #CPX 2X4 ALO8 SWW7 SWL 120 SIGNIFY CAT. #2SBP3550L8CS-4-UN3-DIM	120V	LED 5962 LUMENS 4000K 47.6W	RECESSED	80	N/A	2'X4' (610mmX1220mm) LED BACKLIT FLAT PANEL FIXTURE C/W FIELD SELECTABLE LUMENS AND COLOUR TEMPERATURE, WHITE FROSTED LENS, 10% 0-10V DIMMING DRIVER, AND WHITE FINISH.
L2	COOPER CAT. #14CGTS-NUV LITHONIA CAT. #CPX 1X4 ALO8 SWW7 SWL 120 SIGNIFY CAT. #1SBP3550L8CS-4-UN3-DIM	120V	LED 4712 LUMENS 4000K 37.6W	RECESSED	80	N/A	1'X4' (610mmX1220mm) LED BACKLIT FLAT PANEL FIXTURE C/W FIELD SELECTABLE LUMENS AND COLOUR TEMPERATURE, WHITE FROSTED LENS, 10% 0-10V DIMMING DRIVER, AND WHITE FINISH.
R1 (3)	COOPER CAT. #HC620D010-HM612840-61MDHWF LITHONIA CAT. #LDN6 40/20 L06AR LSS MVOLT GZ1 TRW LIGHTOLIER CAT. #6RN-C6L20840MZ10U-C6RDLXX	120V	LED 1895 LUMENS 4000K 20.9W	RECESSED	80	ENERGY STAR WET LOC.	RECESSED 6" (150mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
EXIT LIGHTS (SELF-POWERED)	AIMLITE CAT. #RPALWUMWHTBATATD STANPRO CAT. #RMXL0-WH-IB-AT	12V/120V	LED 2.5 WATT (MAX.)AC 2 WATT (MAX.)DC	SURFACE	N/A	N/A	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, MAXIMUM 2.5" (63mm) THICKNESS AND 12V INTERNAL SEALED RECHARGABLE BATTERY PROVIDING MINIMUM 30 MINUTES OF EMERGENCY POWER, AND AUTOTEST FEATURE. FACES AND CHEVRONS TO SUIT DRAWINGS.
EMERG. BATT. (LINEAR STYLE)	AIMLITE #EBWL SERIES: EM-7 #EBWL-EMWHT-TB-2-ATD/VDR STANPRO CAT. #SWL SERIES EM-7 #SWL-EMWH-TB-W-AT/TP LUMACELL #LBL SERIES EM-7 #LBL-EM C/W KIT-SR-L	120V	LED 14W	RECESSED	N/A	IP65	LONG LIFE, SEALED RECHARGABLE VANDAL RESISTANT BATTERY C/W ADJUSTABLE 14W LED MODULES, POLYCARBONATE BODY, 90 MINUTE BATTERY DURATION, RECESSED T-BAR MOUNTING, AND AUTOTEST FEATURE.

NOTES:

1. 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.
2. TENDER PRICE TO INCLUDE ONLY APPROVED MANUFACTURERS LISTED ON SCHEDULE. EQUAL MANUFACTURERS ARE NOT BEING CONSIDERED FOR THIS TENDER UNLESS SPECIFICALLY IDENTIFIED ON SCHEDULE FOR NOTED FIXTURE TYPES. FOR NOTED APPROVED EQUALS TO BE CONSIDERED APPROVED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED EQUAL BY EMAIL WITH CONSULTANTS OFFICE PRIOR TO PROJECT ADDENDUM PERIOD CLOSE.
3. WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S AVAILABLE STANDARD FINISHES.
4. IT IS THE RESPONSIBILITY OF THIS ELECTRICAL CONTRACTOR TO IDENTIFY TO THE ELECTRICAL CONSULTANT'S ATTENTION ANY DISCREPANCIES BETWEEN THE FIXTURE CATALOG NUMBER AND FIXTURE DESCRIPTION, AND OR VOLTAGE OUTPUT, OR MOUNTING, 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 THE TIME OF SHOP DRAWING REVIEW. FOR THE PURPOSES OF BIDDING, INCLUDE FOR A FIXTURE MATCHING THE VOLTAGE, MOUNTING, LOCATION AND NOTATIONS SHOWN ON LIGHTING DESIGN DRAWINGS.

LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATION

Space Type	Room Names	Control Sequence / Control Device(s):	Control System
Classrooms/Work Rooms	TYPICAL	Sequence: ON: Lights turned on to 50% output setting via occupancy sensor(s). ADJUST: The occupant manually adjusts lighting rows within the room to desired level. OFF: 10 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume.	DIGITAL ROOM CONTROL SYSTEM

SYSTEM DESCRIPTIONS:

DIGITAL ROOM CONTROL (DLM) SYSTEM

DIGITAL RELAY POWER PACKS C/W PLUG AND PLAY DIGITAL SENSORS AND WALL MOUNT CONTROL STATIONS.

REFER TO SPECIFICATIONS SECTION 26 51 16.

LINE VOLTAGE OCCUPANCY CONTROL SYSTEM

LINE VOLTAGE WALL SENSOR SWITCHES AND LINE VOLTAGE POWER PACKS WITH HARD WIRED SENSORS.

REFER TO SPECIFICATIONS SECTION 26 05 75.

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drawing no.
E102

GENERAL DISTRIBUTION RISER NOTES

A REFER TO SPECIFICATION FOR INFORMATION REGARDING MOULDED CASE CIRCUIT BREAKERS.

B INSTALL GROUND WIRE TO SUIT THE ELECTRICAL SAFETY CODE IN ALL CONDUIT.

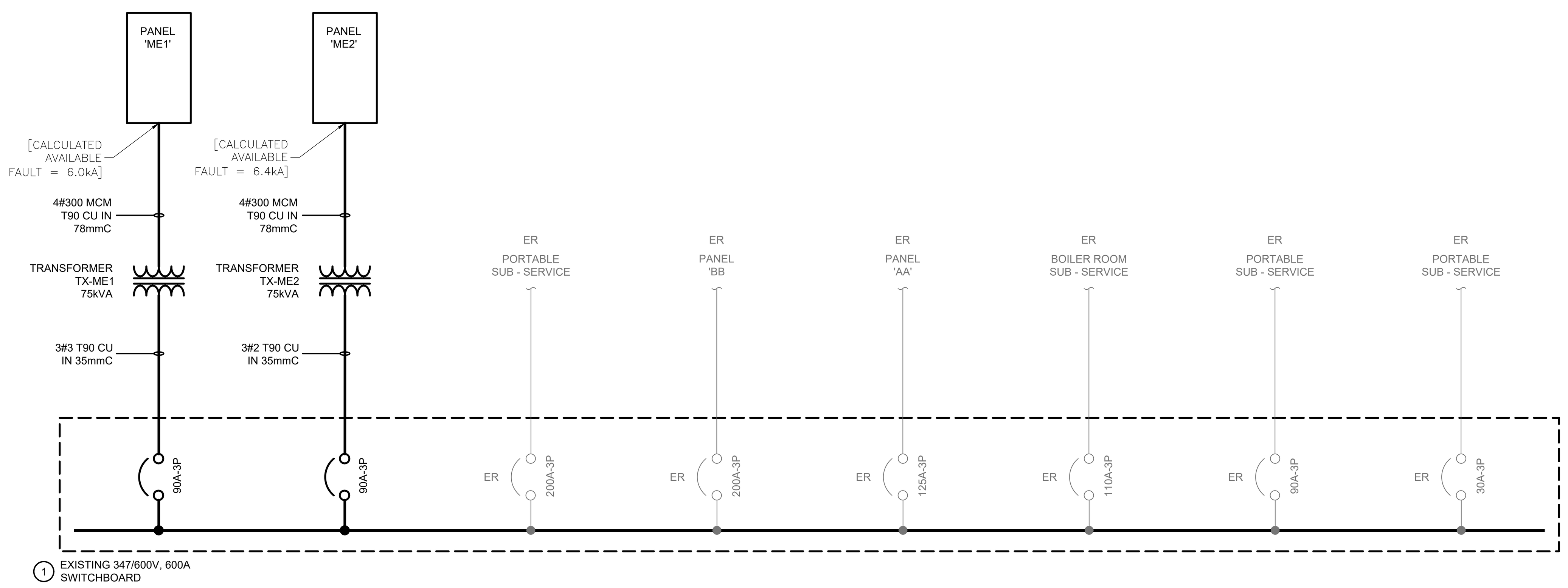
C ALL DISTRIBUTION EQUIPMENT ARE TO BE PROVIDED WITH WARNING LABELS CONFORMING TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-306(1),(2)

D INDICATES DISTRIBUTION PANEL SURGE PROTECTION DEVICE (SPD) WITH RATINGS AS NOTED AND PER SPECIFICATIONS. SPD SHALL BE EXTERNAL TO PANEL. PROVIDE SUITABLE BRANCH DEVICE FOR FULL RATING OF SPD TO SUIT MANUFACTURERS RECOMMENDATIONS AND AS NOTED.

E ALL LIGHTING CIRCUITS AND BRANCH CIRCUITS FROM SPD PROTECTED PANELS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS. SIZE BRANCH CIRCUITS ACCORDINGLY.

SPECIFIC DISTRIBUTION RISER NOTES

1. SUPPLY AND INSTALL TWO 90A-3P BREAKER IN EXISTING SIEMENS S5 SWITCHBOARD TO FEED NEW DISTRIBUTION AS SHOWN. UPDATE PANEL SCHEDULE ACCORDINGLY. COORDINATE SHUT DOWN TIMES WITH SCHOOL BOARD. INCLUDE FOR ALL MOUNTING HARDWARE AND NEW FRONT PANELS AS REQUIRED FOR NEW BREAKERS TO BE INSTALLED.



A-PARTIAL DISTRIBUTION RISER DIAGRAM
SCALE: NTS

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	Hand/Off/Auto	On/Off Selector	Start/Stop PB.	High/Low/Off	Pilot Light	\Motor Rated Switch c/w 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 Controll Panel	Smoke Control System Panel	Control Panel	Wired by	Bldg Auto System	Wired By	Miscellaneous 1	Miscellaneous 2	Interlock to	Interlock by	Remarks
UV-1	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-1	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER REFER TO NOTE:
UV-2	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-2	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-3	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-3	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-4	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-4	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-5	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-5	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-6	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-6	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-7	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-7	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-8	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-8	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-9	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-9	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-10	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-10	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-11	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-11	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-12	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-12	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-13	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-13	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
UV-14	UNIT VENTILATOR	M	120	6.3 AMP	1	15													E		E	E	M											M	M	M			CU-14	M	ITERLOCK TO LOUVRED PENTHOUSE MOTORIZED DAMPER
CU-1	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-1	M	
CU-2	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-2	M	
CU-3	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-3	M	
CU-4	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-4	M	
CU-5	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-5	M	
CU-6	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-6	M	
CU-7	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-7	M	
CU-8	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-8	M	
CU-9	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-9	M	
CU-10	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-10	M	
CU-11	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-11	M	
CU-12	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-12	M	
CU-13	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-13	M	
CU-14	CONDENSING UNIT	M	208	17 AMP	1	25														E	E	E																	UV-14	M	
DS-1	DUCTLESS SPLIT AIR CONDENSING	M	208	1 AMP	1														E		E	E	M											M	M	M			CU-15	M	FEED THRU CU-15. PROVIDE POWER TO CONDENSATE PUMP
CU-15	CONDENSING UNIT	M	208	20 AMP	1	30														E	E	E																	DS-1	M	
EF-10	ROOFTOP EXHAUST FAN	M	120	1/4 HP	1															E	E	E							M					M/E	M	M					
DS-2	DUCTLESS SPLIT AIR CONDENSING	M	208	1 AMP	1														E		E	E	M											M	M	M			CU-16	M	FEED THRU CU-16. PROVIDE POWER TO CONDENSATE PUMP
CU-16	CONDENSING UNIT	M	208	12 AMP	1	15														E	E	E																	DS-1	M	

Notes:

PANEL 'ME1'

VOLTAGE: 120/208 VOLTS
PHASE: 3P, 4W
MAINS: 400A
NEUTRAL BUS: FULL
MOUNTING: SURFACE
NOTES: C/W SPRINKLER HOOD

* INDICATES 33mA GROUND FAULT STYLE BREAKER

THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.

CU-1	CONDENSING UNIT	25A	1	2	25A	CONDENSING UNIT	CU-2
		2P	3	4	2P		
CU-3	CONDENSING UNIT	25A	5	6	25A	CONDENSING UNIT	CU-4
		2P	7	8	2P		
CU-5	CONDENSING UNIT	25A	9	10	25A	CONDENSING UNIT	CU-6
		2P	11	12	2P		
CU-7	CONDENSING UNIT	25A	13	14	25A	CONDENSING UNIT	CU-8
		2P	15	16	2P		
	SPARE	25A	17	18	15A	SPARE	
		2P	19	20	15A	SPARE	
	SPARE	15A	21	22	15A	SPARE	
	SPARE	15A	23	24	15A	SPARE	
	SPARE	15A	25	26	15A	SPARE	
	MAINTENANCE REC	20A	27	28	15A	SPARE	
	SPACE		29	30		SPACE	
	SPACE		31	32		SPACE	
	SPACE		33	34		SPACE	
	SPACE		35	36		SPACE	
	SPACE		37	38		SPACE	
	SPACE		39	40		SPACE	
	SPACE		41	42		SPACE	

NOTE: THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUPTING CAPACITY OF 10,000A PROVIDED BY EITHER FULLY RATED BREAKERS OR INTEGRATED EQUIPMENT RATING WITH THE UPSTREAM BREAKER.

PANEL 'ME2'

VOLTAGE: 120/208 VOLTS
PHASE: 3P, 4W
MAINS: 400A
NEUTRAL BUS: FULL
MOUNTING: SURFACE
NOTES: C/W SPRINKLER HOOD

* INDICATES 33mA GROUND FAULT STYLE BREAKER

THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.

CU-9	CONDENSING UNIT	25A	1	2	25A	CONDENSING UNIT	CU-10
		2P	3	4	2P		
CU-11	CONDENSING UNIT	25A	5	6	25A	CONDENSING UNIT	CU-12
		2P	7	8	2P		
CU-13	CONDENSING UNIT	25A	9	10	25A	CONDENSING UNIT	CU-14
		2P	11	12	2P		
CU-15	CONDENSING UNIT	30A	13	14	15A	DUCTLESS SPLIT UNIT	DS-1
		2P	15	16	2P		
	SPARE	25A	17	18	15A	SPARE	
		2P	19	20	15A	ROOFTOP EXHAUST FAN	EF-10
CU-16	CONDENSING UNIT	15A	21	22	15A	SPARE	
		2P	23	24	15A	DUCTLESS SPLIT UNIT	DS-2
	SPARE	15A	25	26	2P	SPARE	
	MAINTENANCE REC	20A	27	28	15A	SPARE	
	SPARE	15A	29	30	15A	SPARE	
	SPACE		31	32		SPACE	
	SPACE		33	34		SPACE	
	SPACE		35	36		SPACE	
	SPACE		37	38		SPACE	
	SPACE		39	40		SPACE	
	SPACE		41	42		SPACE	

NOTE: THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUPTING CAPACITY OF 10,000A PROVIDED BY EITHER FULLY RATED BREAKERS OR INTEGRATED EQUIPMENT RATING WITH THE UPSTREAM BREAKER.

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

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Website: deiassociates.ca
Project Number: 25384

Professional Engineers Ontario 03-31-2026
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction.
Association of Professional Engineers of Ontario

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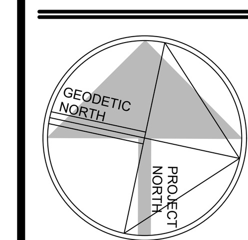

no.	issue	date
1	Issued for Coordination	2026.02.27
2	Issued for Permit & Tender	2026.03.31

project
WATERLOO REGION DISTRICT SCHOOL BOARD
BRESLAU PUBLIC SCHOOL
HVAC AND CLASSROOM RENOVATIONS
58 JOSEPH STREET, BRESLAU, ON N0B 1M0

drawing
OVERALL PLAN, DETAILS, SCHEDULES

drawing scale
AS NOTED

ward99 project number
25018 - BRESLAU PS WRDSB

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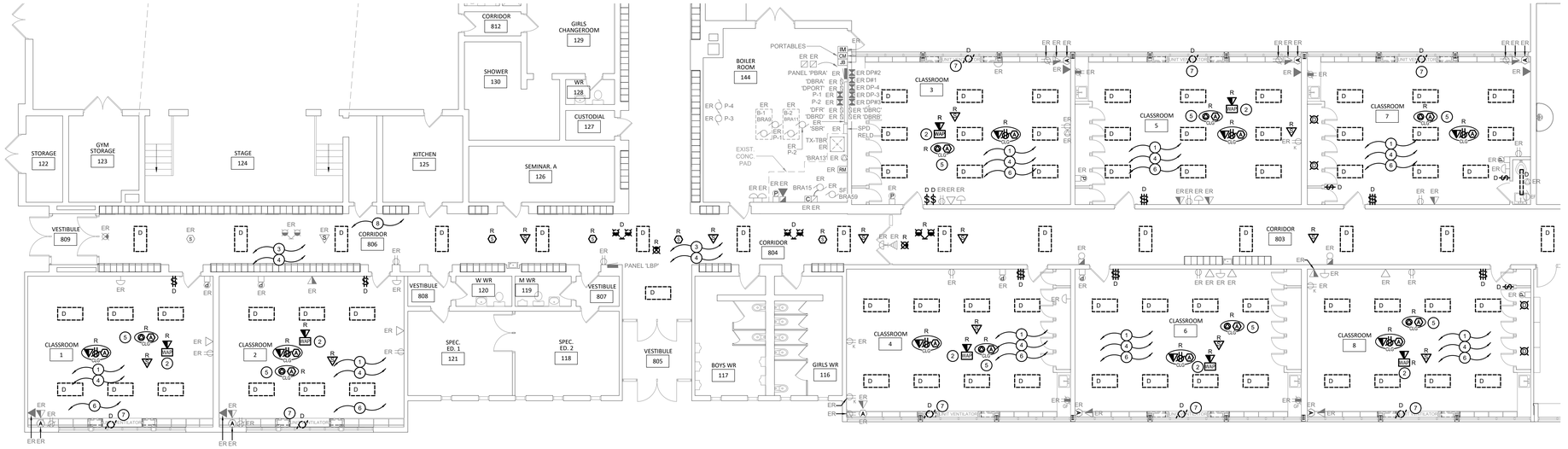
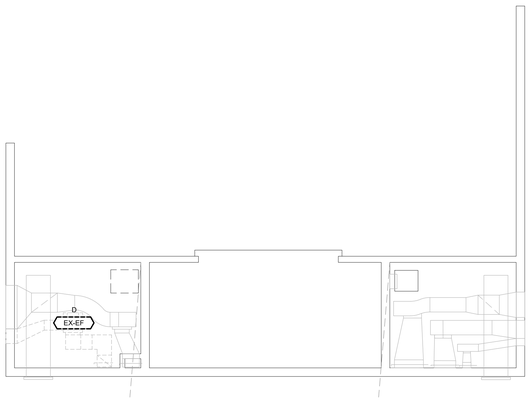
drawing no.
E103



GROUND FLOOR DEMOLITION PLAN - BLOCK A
SCALE: 1:100



UPPER LEVEL - DEMOLITION - PART PLAN
SCALE: 1:100

GENERAL DEMOLITION NOTES

- 'ER' DENOTES 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 DELETED. 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 DEMOLITION NOTES

1 FIXTURES ARE TO BE DISCONNECTED AND REMOVED. MAINTAIN WIRING FOR CONNECTION TO NEW FIXTURES AND CONTROLS AS NOTED ON THE RENOVATION DRAWINGS.

2 PROTECT EXISTING DATA CABLING FOR WIRELESS ACCESS POINT DURING CEILING WORK, RE-INSTALL PER RENOVATION PLAN.

3 INDICATED FIXTURES TO BE REMOVED. EXISTING CIRCUIT AND LIGHTING CONTROLS TO REMAIN FOR CONNECTION TO NEW FIXTURES. REFER TO RENOVATION PLANS.

4 CEILINGS IN CLASSROOMS AND CORRIDORS ARE BEING REMOVED AND RE-INSTALLED FOR MECHANICAL INSTALLATION. ELECTRICAL CONTRACTOR IS TO INCLUDE FOR REMOVAL AND/OR REINSTALLATION OF ALL CEILING MOUNT DEVICES.

5 INDICATES CEILING MOUNTED SOUND FIELD HARDWIRE & AUXILIARY CONNECTION TO BE DISCONNECTED AND REMOVED. EXISTING CIRCUIT AND CONTROLS TO REMAIN FOR RELOCATION. CONTRACTOR TO COORDINATE WITH SCHOOL BOARD FOR SHOP DRAWINGS, PROVIDE RECEPTACLE IF REQUIRED ON FINAL SHOP DRAWINGS.

6 FIXTURES HAVE RECENTLY BEEN UPGRADED TO TYPE B LED BULBS. ELECTRICAL CONTRACTOR TO HAND OVER BULBS TO SCHOOL BOARD FOR FUTURE USE. ELECTRICAL CONTRACTOR IS TO INCLUDE FOR DISPOSAL IN TENDER PRICE IF BOARD DOES NOT REQUIRE THE BULBS.

7 INDICATES EXISTING MECHANICAL EQUIPMENT TO REMOVED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO DISCONNECT POWER AND MAINTAIN EXISTING CIRCUIT FOR CONNECT TO NEW EQUIPMENT.

8 ELECTRICAL CONTRACTOR IS TO REPLACE EXISTING LIGHT SWITCHES CONTROLLING CORRIDOR LIGHTING WITH NEW KEYSWITCH DOWNSTREAM OF NEW LIGHTING CONTROLS PER RENOVATION PLANS.

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

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Website: deiassociates.ca
Project Number: 25384

Key Plan

Professional Engineers Ontario
03-31-2026
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction.
Association of Professional Engineers of Ontario

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2	Issued for Permit & Tender	2026.03.31

project
WATERLOO REGION DISTRICT SCHOOL BOARD
BRESLAU PUBLIC SCHOOL
HVAC AND CLASSROOM RENOVATIONS
58 JOSEPH STREET, BRESLAU, ON N0B 1M0

drawing
DEMOLITION PLAN

drawing scale
AS NOTED

ward99 project number
25018 - BRESLAU PS WRDSB

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drawing no.
E201

GENERAL DEMOLITION NOTES

- 'ER' DENOTES 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 DELETED. 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 DEMOLITION NOTES

1 FIXTURES ARE TO BE DISCONNECTED AND REMOVED. MAINTAIN WIRING FOR CONNECTION TO NEW FIXTURES AND CONTROLS AS NOTED ON THE RENOVATION DRAWINGS.

2 PROTECT EXISTING DATA CABLING FOR WIRELESS ACCESS POINT DURING CEILING WORK. RE-INSTALL PER RENOVATION PLAN.

3 INDICATED FIXTURES TO BE REMOVED. EXISTING CIRCUIT AND LIGHTING CONTROLS TO REMAIN FOR CONNECTION TO NEW FIXTURES. REFER TO RENOVATION PLANS.

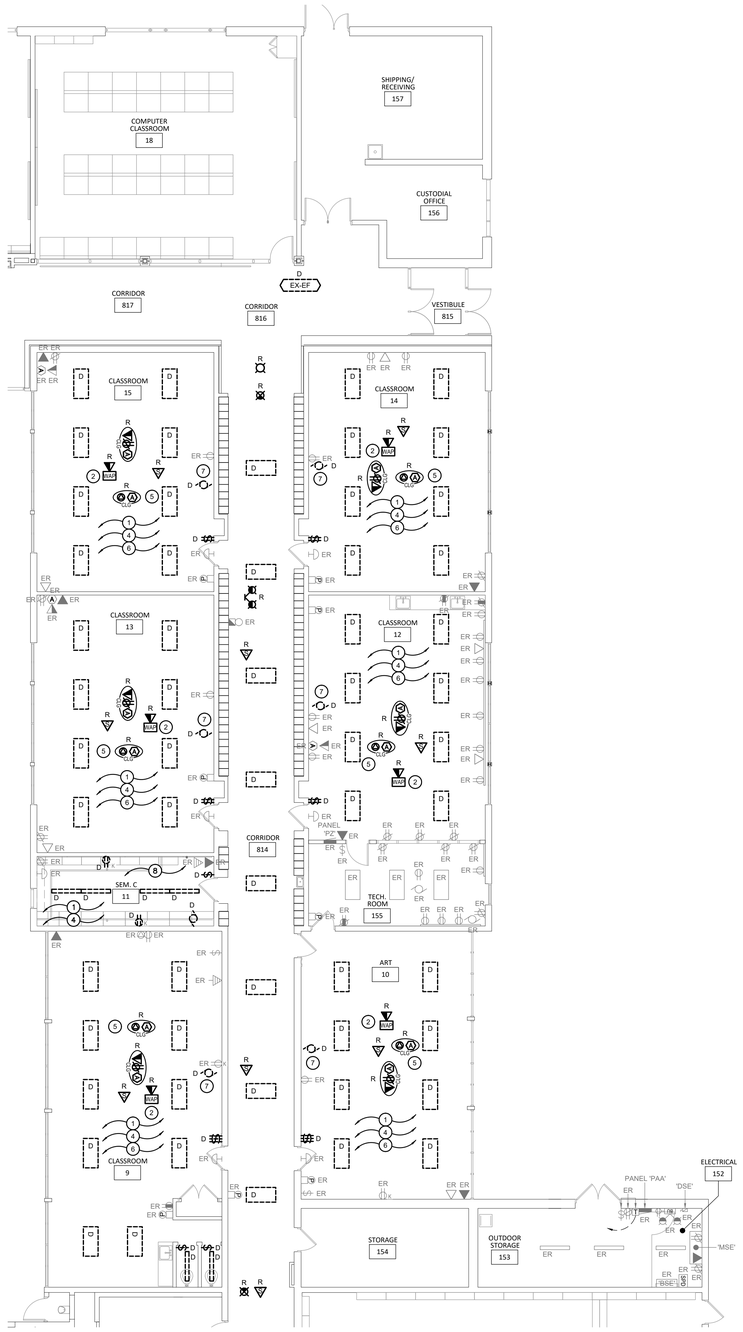
4 CEILINGS IN CLASSROOMS AND CORRIDORS ARE BEING REMOVED AND RE-INSTALLED FOR MECHANICAL INSTALLATION. ELECTRICAL CONTRACTOR IS TO INCLUDE FOR REMOVAL AND/OR REINSTALLATION OF ALL CEILING MOUNT DEVICES.

5 INDICATES CEILING MOUNTED SOUND FIELD HARDWIRE & AUXILIARY CONNECTION TO BE DISCONNECTED AND REMOVED. EXISTING CIRCUIT AND CONTROLS TO REMAIN FOR RELOCATION. CONTRACTOR TO COORDINATE WITH SCHOOL BOARD FOR SHOP DRAWINGS. PROVIDE RECEPTACLE IF REQUIRED ON FINAL SHOP DRAWINGS.

6 FIXTURES HAVE RECENTLY BEEN UPGRADED TO TYPE B LED BULBS. ELECTRICAL CONTRACTOR TO HAND OVER BULBS TO SCHOOL BOARD FOR FUTURE USE. ELECTRICAL CONTRACTOR IS TO INCLUDE FOR DISPOSAL IN TENDER PRICE IF BOARD DOES NOT REQUIRE THE BULBS.

7 INDICATES EXISTING MECHANICAL EQUIPMENT TO REMOVED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO DISCONNECT POWER AND MAINTAIN EXISTING CIRCUIT FOR CONNECT TO NEW EQUIPMENT.

8 POWER IN MILLWORK BASE TO BE REMOVED IN THIS ROOM.



GROUND FLOOR DEMOLITION PLAN - BLOCK B
SCALE: 1:100

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Phone: 519-725-3555
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Project Number: 25384

Key Plan

Professional Engineers Ontario 03-31-2026
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
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Association of Professional Engineers of Ontario

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1	Issued for Coordination	2026.02.27
2	Issued for Permit & Tender	2026.03.31

project
WATERLOO REGION DISTRICT SCHOOL BOARD
BRESLAU PUBLIC SCHOOL
HVAC AND CLASSROOM RENOVATIONS
58 JOSEPH STREET, BRESLAU, ON N0B 1M0

drawing
DEMOLITION PLAN

drawing scale
AS NOTED

ward99 project number
25018 - BRESLAU PS WRDSB

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drawing no.
E202

GROUND FLOOR RENOVATION PLAN - BLOCK A
SCALE: 1:100

ROOF RENOVATION PLAN - BLOCK A
SCALE: 1:100

GENERAL RENOVATION NOTES

- '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 RENOVATION NOTES

1 CONNECT FIXTURES WITHIN THIS ROOM TO CIRCUITS MADE AVAILABLE DURING DEMOLITION, EXTEND CIRCUITS AS REQUIRED. FIXTURES TO BE CONTROLLED AS SHOWN.

2 INDICATES POWER PACK INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF CLASSROOM LIGHTING THROUGH WALL MOUNTED TOGGLE SWITCHES. REFER TO LIGHTING CONTROL DETAILS.

3 INDICATES FIXTURES TO BE CONNECTED TO EXISTING CIRCUIT AND EXISTING CONTROLS MADE AVAILABLE DURING DEMOLITION.

4 INDICATES EMERGENCY FIXTURE TO BE CONNECTED TO UNSWITCHED SIDE OF LOCAL LIGHTING CIRCUIT.

5 INDICATED DEVICE IS TO BE CEILING MOUNTED. PROVIDE ADEQUATE SUPPORT.

6 INDICATES MECHANICAL EQUIPMENT TO BE CONNECTED TO EXISTING CIRCUIT AND EXISTING CONTROLS MADE AVAILABLE DURING DEMOLITION. ELECTRICAL CONTRACTOR IS TO PULL FEED BACK AND REFEED / EXTEND AS REQUIRED FOR INSTALL. FEED MUST BE CONCEALED, SURFACE MOUNT WILL NOT BE ACCEPTED.

7 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL NEW DISTRIBUTION EQUIPMENT PER DISTRIBUTION RISER. COORDINATE EXACT PLACEMENT ON SITE.

8 ELECTRICAL FEEDERS FOR UNITS TO FOLLOW REFRIGERATION PIPING AND ENTER BUILDING THROUGH MECHANICAL DOGHOUSE.

9 PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN-USE" WEATHER-PROOF COVER. COORDINATE PLACEMENT WITH MECHANICAL TRADE. INDICATED DEVICE IS TO BE MOUNTED ±36" (900mm) ABOVE FINISHED ROOF LEVEL.

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Project Number: 25384

Key Plan

Professional Engineers Ontario 03-31-2026
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
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project
WATERLOO REGION DISTRICT SCHOOL BOARD
BRESLAU PUBLIC SCHOOL
HVAC AND CLASSROOM RENOVATIONS
58 JOSEPH STREET, BRESLAU, ON N0B 1M0
drawing
RENOVATION PLAN
drawing scale
AS NOTED
ward99 project number
25018 - BRESLAU PS WRDSB

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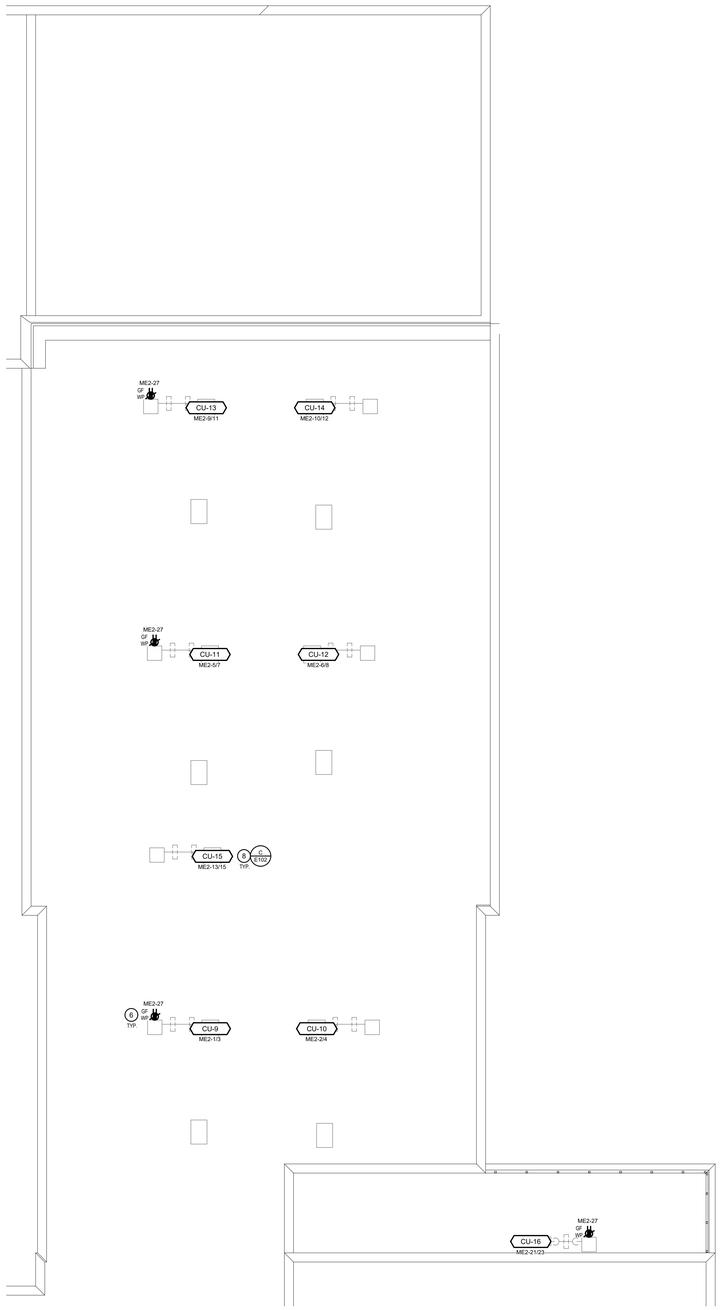
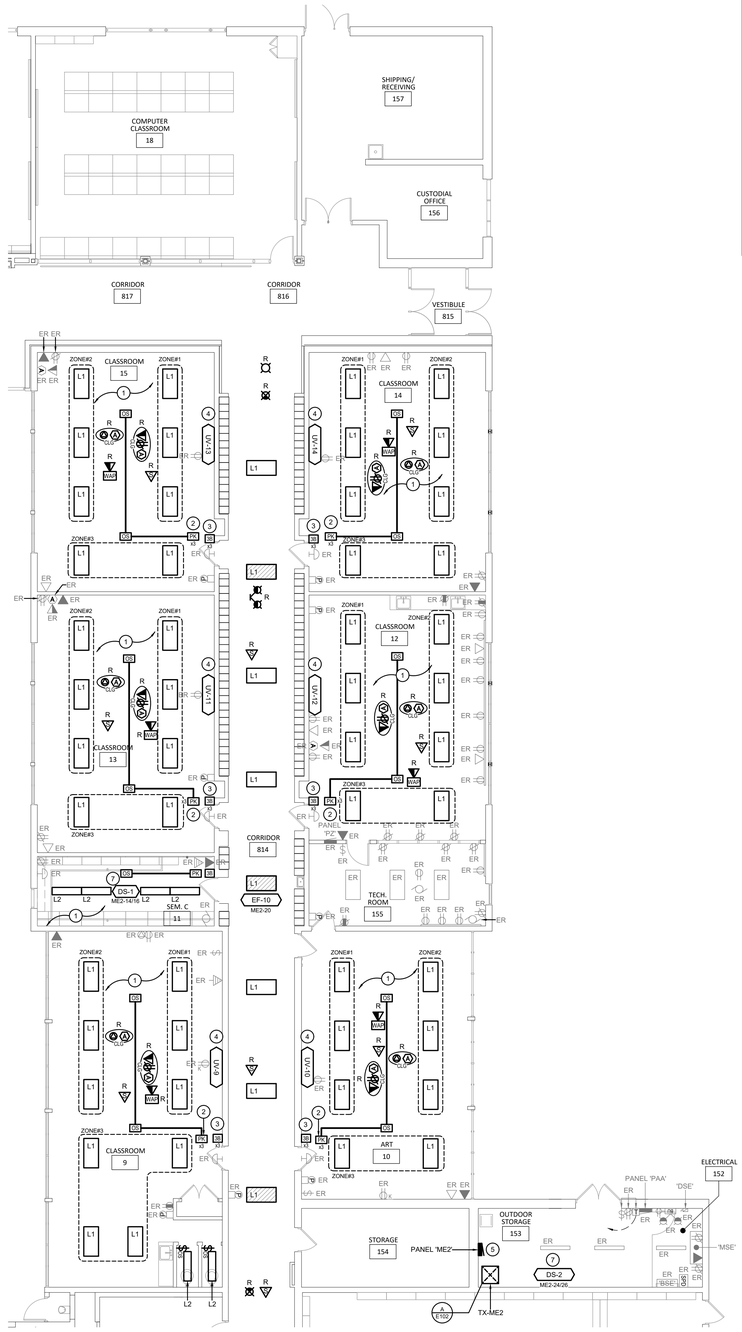
drawing no.
E301



ROOF RENOVATION PLAN - BLOCK B

SCALE: 1:100



GROUND FLOOR RENOVATION PLAN - BLOCK B

SCALE: 1:100

GENERAL RENOVATION NOTES

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- '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 RENOVATION NOTES

1. CONNECT FIXTURES WITHIN THIS ROOM TO CIRCUITS MADE AVAILABLE DURING DEMOLITION. EXTEND CIRCUITS AS REQUIRED. FIXTURES TO BE CONTROLLED AS SHOWN.
2. INDICATES POWER PACK INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF CLASSROOM LIGHTING THROUGH WALL MOUNTED TOGGLE SWITCHES. REFER TO LIGHTING CONTROL DETAILS.
3. INDICATES NEW SWITCH TO BE PROVIDED IN PLACE OF REMOVED SWITCH. SUPPLY AND INSTALL CUSTOM COVER PLATE FOR UNUSED GANG. AND FEED IT USING SURFACE METAL RACEWAY EQUAL TO WIREMOLD SERIES 700.
4. INDICATES MECHANICAL EQUIPMENT TO BE CONNECTED TO EXISTING CIRCUIT AND EXISTING CONTROLS MADE AVAILABLE DURING DEMOLITION. ELECTRICAL CONTRACTOR IS TO PULL FEED BACK AND REFEED / EXTEND AS REQUIRED FOR INSTALL. FEED MUST BE CONCEALED, SURFACE MOUNT WILL NOT BE ACCEPTED.
5. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL NEW DISTRIBUTION EQUIPMENT PER DISTRIBUTION RISER. COORDINATE EXACT PLACEMENT ON SITE.
6. PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN-USE" WEATHER-PROOF COVER. COORDINATE PLACEMENT WITH MECHANICAL TRADE. INDICATED DEVICE IS TO BE MOUNTED ±36" (900mm) ABOVE FINISHED ROOF LEVEL.
7. INDICATED MECHANICAL UNIT IS FED FROM CONDENSING UNIT ON ROOF PER EQUIPMENT WIRING SCHEDULE, PROVIDE FEED.

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GEODETIC NORTH
PROJECT NORTH

project
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BRESLAU PUBLIC SCHOOL
HVAC AND CLASSROOM RENOVATIONS
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drawing
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drawing scale
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drawing no.
E302