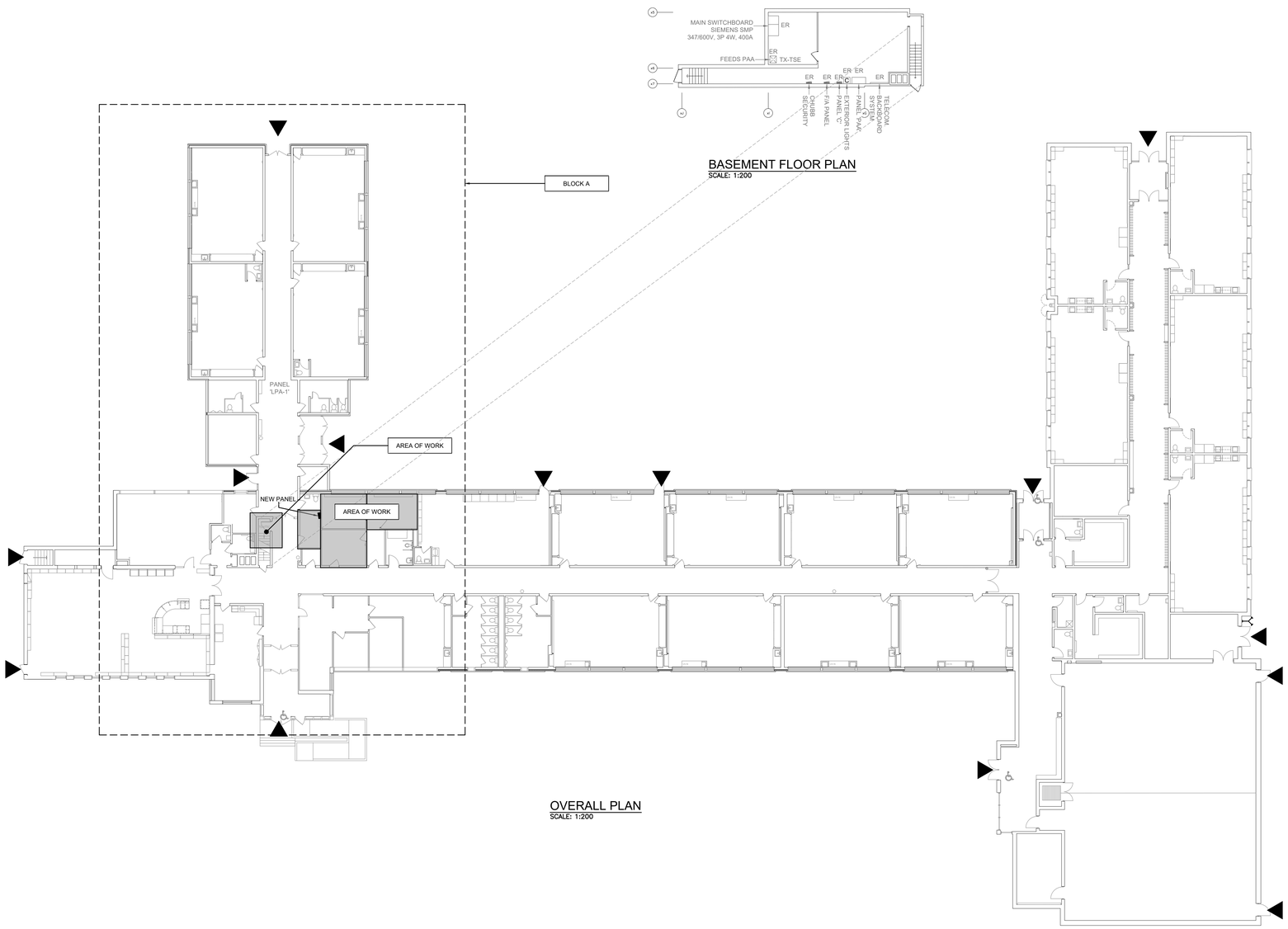


OVERALL PLAN
SCALE: 1:200

BASEMENT FLOOR PLAN
SCALE: 1:200

ELECTRICAL SYMBOLS

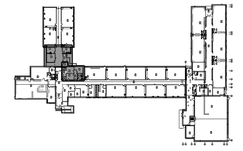
NOTE: ALL SYMBOLS MAY NOT BE USED

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 'X" (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)
S	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
VDR	VARIABLE FREQUENCY DRIVE
	FUSED DISCONNECT
	MOTOR CONNECTION
	MANUAL STARTER
	COMBINATION MAGNETIC STARTER
	TRANSFORMER
M	CONTACTOR
RA	THERMOSTAT (RA=REVERSE ACTING)
SPD	SURGE PROTECTION DEVICE. REFER TO SPECIFICATIONS.
ACCESS CONTROL	
MA	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



KEY PLAN

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55 Northland Road, Waterloo, ON N2V 1Y8
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project
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EMPIRE PUBLIC SCHOOL
HVAC AND WINDOW RENOVATIONS
83 EMPIRE STREET, WATERLOO, ON N2L 2M1

drawing
OVERALL PLAN, DETAILS & SCHEDULES

drawing scale
AS NOTED

ward99 project number
25019 - EMPIRE PS WRDSB

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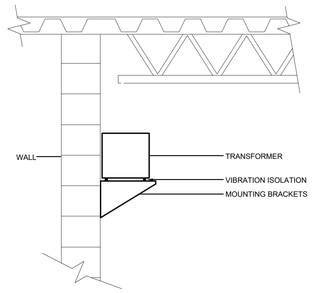
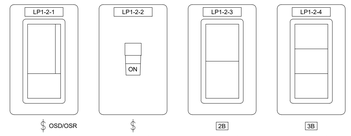
drawing no.
E101



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-RESERVED
SCALE: NTS

PANEL 'ME1'

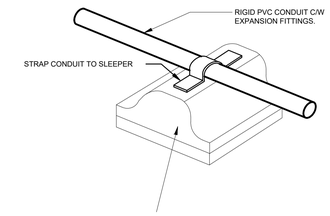
VOLTAGE: 120/208 VOLTS
PHASE: 3P, 4W
MAINS: 400A
NEUTRAL BUS: FULL
MOUNTING: SURFACE
NOTES: C/W SPRINKLER HOOD
SINGLE TUB

* 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.

	SPACE		1	2		SPACE	
	SPACE		3	4		SPACE	
	SPACE		5	6		SPACE	
	SPACE		7	8		SPACE	
	SPACE		9	10		SPACE	
	SPACE		11	12		SPACE	
	SPACE		13	14		SPACE	
	SPACE		15	16		SPACE	
	SPACE		17	18		SPACE	
	SPACE		19	20		SPACE	
	SPACE		21	22		SPACE	
	SPARE	15A	23	24		SPACE	
	SPARE	15A	25	26	15A	CONDENSING UNIT	CU-1
	SPARE	15A	27	28	2P		
CU-2	CONDENSING UNIT	15A	29	30	15A	CONDENSING UNIT	CU-3
		2P	31	32	2P		
DS-1	DUCTLESS SPLIT UNIT	15A	33	34	15A	DUCTLESS SPLIT UNIT	DS-2
		2P	35	36	2P		
DS-3	DUCTLESS SPLIT UNIT	15A	37	38	25A	SPARE	
		2P	39	40	2P		
	MAINTENANCE REC	20A	41	42	15A	SPARE	
	SPARE	15A	43	44	15A	SPARE	
	SPARE	15A	45	46	15A	SPARE	
	SPARE	15A	47	48	15A	SPARE	
	SPARE	15A	49	50	15A	SPARE	
	SPARE	15A	51	52	15A	SPARE	
	SPARE	15A	53	54	15A	SPARE	
	SPACE		55	56		SPACE	
	SPACE		57	58		SPACE	
	SPACE		59	60		SPACE	
	SPACE		61	62		SPACE	
	SPACE		63	64		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.



MANUFACTURED CONDUIT SUPPORT. SINGLE PIECE INJECTION MOULDED POLYPROPYLENE SUPPORT WITH TYPE 3-20 PSI EXTRUDED POLYSTYRENE UV PROTECTED BASE GLUED TO THE SUPPORT. MINIMUM BASE DIMENSION OF 300x225 (12"x9") x 140 mm (5.5") HIGH. ACCEPTABLE MATERIALS: QUICK BLOCK, ERICO

D-CONDUIT SUPPORT DETAIL
SCALE: NTS

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.

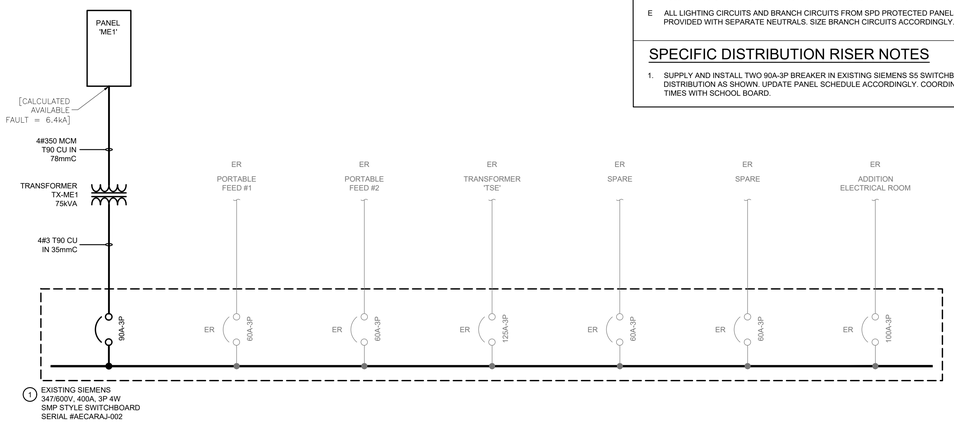
C ALL DISTRIBUTION EQUIPMENT ARE TO BE PROVIDED WITH WARNING LABELS CONFORMING TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-306(1),(2)

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.

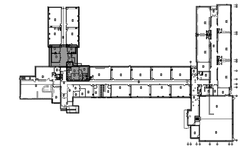


E-PARTIAL DISTRIBUTION RISER DIAGRAM
SCALE: NTS

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-UNS-DIM	120V	LED 5962 LUMENS 4000K 47.8W	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.

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.



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project
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EMPIRE PUBLIC SCHOOL
HVAC AND WINDOW RENOVATIONS
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drawing
OVERALL PLAN, DETAILS & SCHEDULES

drawing scale
AS NOTED

ward99 project number
25019 - EMPIRE PS WRDSB

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ward99 architects inc.
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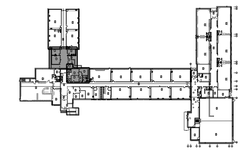
drawing no.
E102

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	BreakerFuse	Starter/Device Wired by	Thermostat	RA Thermostat	Programmable Time Clock	Variable Speed Control	Current Sensor	Occ Sensor	Dual Voltage Relay	Interval Timer	VRF System Control Panel	Smoke Control System Panel	Control Panel	Wired by	Bldg Auto System	Wired By		Miscellaneous 1	Miscellaneous 2	Interlock to	Interlock by	Remarks
DS-1	DUCTLESS SPLIT AIR CONDENSING	M	208	1 AMP	1															E	WP	E	E	M										M	M	M				CU-1	M	FEED THRU CU-1. PROVIDE POWER TO CONDENSATE PUMP REFER TO NOTE:
CU-1	CONDENSING UNIT	M	208	13.4 AMP	1	15															E	E	E																		DS-1	M	
DS-2	DUCTLESS SPLIT AIR CONDENSING	M	208	1 AMP	1															E	WP	E	E	M										M	M	M				CU-2	M	FEED THRU CU-2. PROVIDE POWER TO CONDENSATE PUMP
CU-2	CONDENSING UNIT	M	208	13.4 AMP	1	15															E	E	E																		DS-2	M	
DS-3	DUCTLESS SPLIT AIR CONDENSING	M	208	1 AMP	1															E	WP	E	E	M										M	M	M				CU-3	M	FEED THRU CU-3. PROVIDE POWER TO CONDENSATE PUMP
CU-3	CONDENSING UNIT	M	208	13.4 AMP	1	15															E	E	E																		DS-3	M	

Notes:



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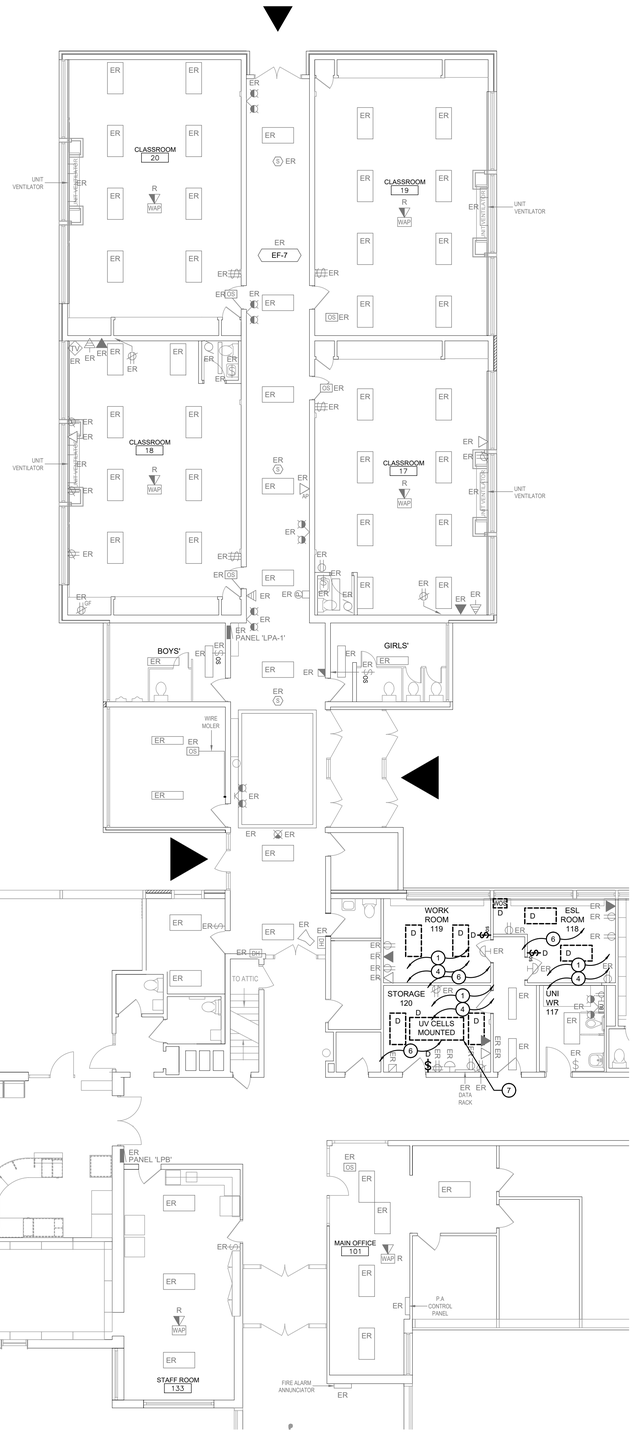


GROUND FLOOR DEMOLITION PLAN - BLOCK A

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 NOT USED.

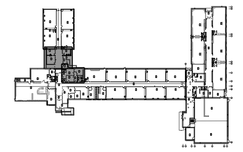
3 NOT USED.

4 CEILINGS 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 NOT USED.

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.



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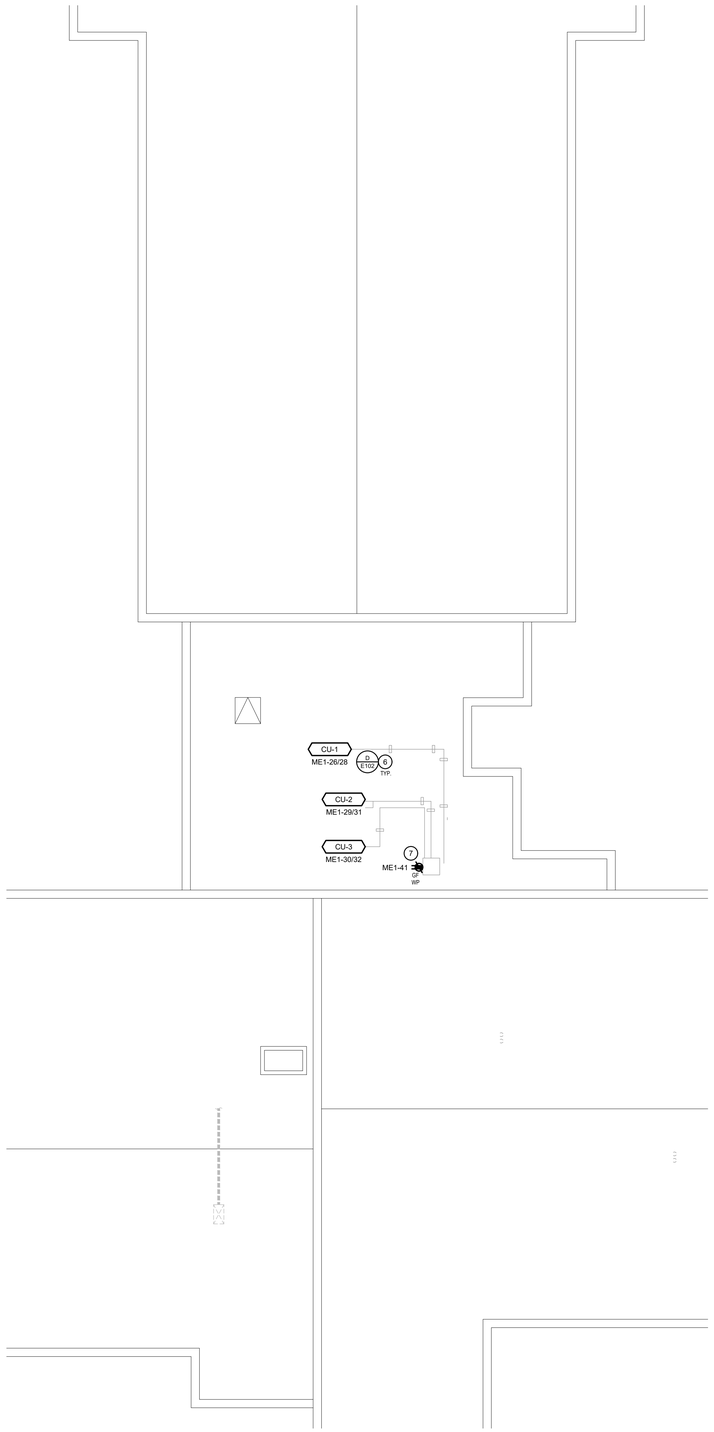
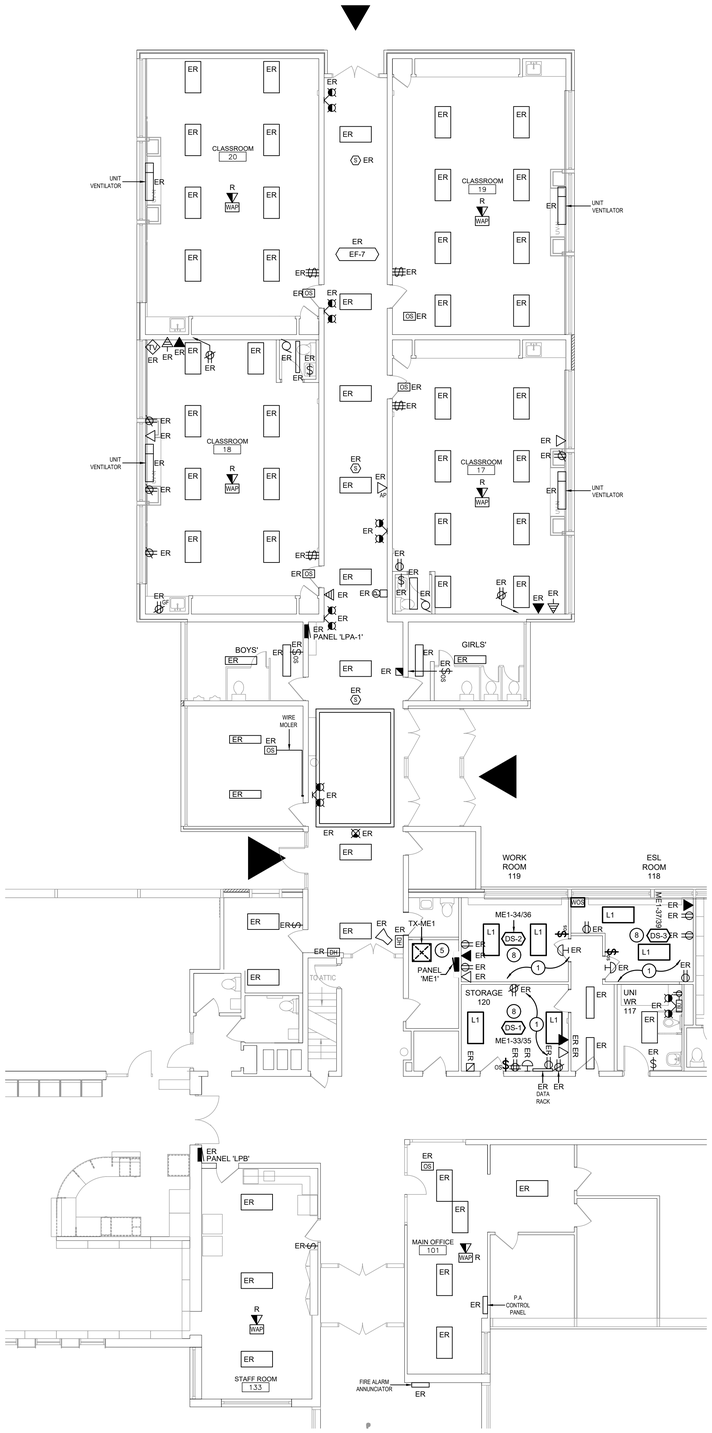


ROOF RENOVATION PLAN - BLOCK A
SCALE: 1:100



GROUND FLOOR 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 NOT USED.

3 NOT USED.

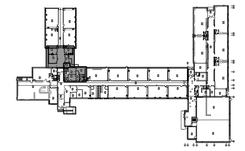
4 NOT USED.

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

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

7 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.

8 INDICATED MECHANICAL UNIT IS FED FROM CONDENSING UNIT ON ROOF PER EQUIPMENT WIRING SCHEDULE, PROVIDE FEED.



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

DEI
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MECHANICAL | ELECTRICAL | AQUATIC
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Project Number: 25385

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.
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no.	revision	date

no.	issue	date
1	Issued for Coordination	2025.02.27
2	Issued for Permit & Tender	2025.03.31

project
WATERLOO REGION DISTRICT SCHOOL BOARD
EMPIRE PUBLIC SCHOOL
HVAC AND WINDOW RENOVATIONS
83 EMPIRE STREET, WATERLOO, ON N2L 2M1
drawing
RENOVATION PLAN
drawing scale
AS NOTED
ward99 project number
25019 - EMPIRE PS WRDSB

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drawing no.
E301