	LEGEND OF SYME	BOLS
	RECESSED OR SURFACE MOUNTED LED FIXTURE	DC
<u>о</u> о	LED FIXTURE WALL OR CEILING MOUNTED	ф
	EMERGENCY BATTERY UNIT C/W ASSOCIATED RECEPTACLE & HEAD(S) AS SHOWN	DCI
	EMERGENCY BATTERY UNIT REMOTE EMERGENCY LIGHTING HEAD(S) (CONNECT TO EMERGENCY BATTERY UNIT)	TV
X X	EXIT SIGN WALL OR CEILING MOUNTED - ARROW DENOTES DIRECTION OF TRAVEL (CONNECT TO CORRESPONDING BATTERY UNIT)	JB
WP \$ 3 K \$ 4 CA	120 VOLT LIGHTING TOGGLE SWITCH (K DENOTES KEY-OPERATED, 3 DENOTES THREE WAY, 4 DENOTES FOUR WAY, WP DENOTES WEATHERPROOF, C DENOTES PA SYSTEM CALL SWITCH)	SP
K ■ 3	120V LIGHT SWITCH MOUNTED IN CONTROL PANEL (K DENOTES KEY-OPERATED, 3 DENOTES THREE WAY)	CCT
\$ P	120 VOLT MOTOR RATED SWITCH COMPLETE WITH PILOT LIGHT, SUPPLIED AND INSTALLED BY ELECTRICAL DIV.	(LS
os #	CEILING OR WALL MOUNTED OCCUPANCY SENSOR FOR LIGHTING CONTROL	EX
⊕ w	15A, 120V DUPLEX RECEPTACLE. (W - WASHER) 15A, 120V DUPLEX RECEPTACLE COMPLETE WITH USB CHARGER (HUBBELL #USB15X2)	ER
MW∯ MWS	15A, 120V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER (MW - MICROWAVE, MWS - SHELF MOUNTED MICROWAVE)	RP
⇔ GFI	15A, 120V GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE (HUBBELL #GF5262). MOUNTED ABOVE COUNTER (150mm ABOVE BACK SPLASH).	RM
GFI ∰ WP	15A, 120V WEATHERPROOF GFI TYPE DUPLEX RECEPTACLE	ER/I
#	15A, 120V QUAD RECEPTACLE	FS
GFI ⇔ WP	15/20A, 120V, 1Ø COMBINATION GROUND FAULT INTERRUPTER COMBINATION DUPLEX RECEPTACLE (WP - DENOTES WEATHERPROOF)	
4	15A, 208V, 1Ø RECEPTACLE	
ф	240V, 1Ø RECEPTACLE	
•	120V JUNCTION BOX	
C (MD	SPECIAL OUTLET (SIZE AND EQUIPMENT AS NOTED, CONNNECT TO EQUIPMENT) 15A, 120V OUTLET FOR C - CONTROLS; MD - MOTORIZED DAMPER (CONNECT TO EQUIPMENT)	
P	SURFACE MOUNTED TWO-CELL RACEWAY (ONE CELL FOR POWER AND ONE CELL FOR COMPUTER WIRING) C/W RECEPTACLES AND COMPUTER OUTLETS AS SHOWN ON FLOOR PLANS. RUN ASSOCIATED CONDUIT FOR COMPUTER WIRING AND TERMINATE IN ACCESSIBLE CEILING SPACE. TERMINATION OF CONDUITS IN EXPOSED OR IN GYPSUM BOARD CEILINGS IS NOT ACCEPTABLE.	
ф	WALL OR PLUGMOLD MOUNTED SINGLE JACK COMPUTER OUTLET FOR SCHOOL COMPUTER SYSTEM.	
(0)	WALL OR PLUGMOLD MOUNTED OUTLET BOX C/W BLANK COVER FOR FUTURE COMPUTER OUTLET.	
中 ⁽²⁾ 中 ⁽³⁾	WALL OR PLUGMOLD MOUNTED DUPLEX JACK COMPUTER OUTLET FOR SCHOOL COMPUTER SYSTEM. WALL OR PLUGMOLD MOUNTED TRIPLE JACK COMPUTER OUTLET FOR SCHOOL COMPUTER SYSTEM.	
ф ⁽⁴⁾	WALL OR PLUGMOLD MOUNTED QUAD JACK COMPUTER OUTLET FOR SCHOOL COMPUTER SYSTEM.	
фwар	OUTLET FOR WIRELESS ACCESS POINT.	
фс	OUTLET FOR CEILING MOUNTED PROJECTOR	
ф	2 GANG OUTLET BOX C/W SINGLE GANG COVER FOR SHORT THROW PROJECTOR AUXILIARY INPUT/OUTPUT. MOUNTED AT 400MM A.F.F TO TOP OF BOX	
+	4" X 4" X 4" OUTLET BOX C/W AV CABLE PASS THROUGH GROMMET MOUNTED AT HIGHT LEVEL.	
æ.	HEATER C/W BUILT-IN THERMOSTAT	
Q	ELECTRIC MOTOR (WIRING & EQUIPMENT AS NOTED)	
■	EMERGENCY PUSH BUTTON (RED MUSHROOM TYPE) LABELED "POWER" SHALL BE CONNECTED TO CORRESPONDING LIGHTING PANEL FOR SHUT DOWN OF POWER.	
EXP RT WP	DISCONNECT SWITCH (WP DENOTES WEATHERPROOF, RT DENOTES RAINTIGHT, EXP DENOTES EXPLOSION PROOF)	
⊿ P	MANUAL MOTOR STARTER SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV. (P - DENOTES PILOT LIGHT)	
⊠ sc ⊠ p	SPEED CONTROLLER FOR CEILING FAN (SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV.) MAGNETIC MOTOR STARTER SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV. (P -	
⊠ ₁	DENOTES PILOT LIGHT) FUSED COMBINATION MAGNETIC MOTOR STARTER (SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY	
TS	ELECTRICAL DIV.) TIMESWITCH	
C	H.O.A. CONTACTOR C/W PILOT LIGHT	
•	FLUSH WALL MOUNTED OUTLET BOX (FOR TEMPERATURE SENSOR) COMPLETE WITH 16MM EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED (TEMPERATURE SENSOR AND WIRING BY MECHANICAL DIV.)	
P	OUTLET FOR HANDICAPPED PUSH BUTTON	
	SURFACE OR FLUSH MOUNTED ELECTRICAL PANELS	
	DISTRIBUTION PANEL OR SPLITTER TROUGH	
T-1	DRY TYPE TRANSFORMER	
	CONDUIT RUN CONCEALED IN WALL & CEILING ETC.	
	CONDUIT RUN IN OR UNDER FLOOR SLAB OR GRADE	
FWP S ■ WG	FIRE ALARM MANUAL PULL STATION - WP DENOTES WEATHERPROOF	
S∰WG	FLUSH MOUNTED FIRE ALARM CONE SPEAKER. (WG DENOTES C/W WIREGUARD, S DENOTES C/W STROBE LIGHT)	
S € (W)	FIRE ALARM SMOKE DETECTOR (W DENOTES C/W WIREGUARD)	
H ● (W) S/A ● R/A WP	FIRE ALARM HEAT DETECTOR (W DENOTES C/W WIREGUARD) FIRE ALARM SMOKE DETECTOR MOUNTED IN RETURN AND/OR SUPPLY DUCT C/W PILOT LIGHT (MR. DENOTES COMPLETE WITH HEATER AND WEATHER RECOGNISHED COMPLETE WITH HEATER AND WEATHER WITH HEATER AND WEATHER WITH HEATER WITH	
WP S IS WP	(WP-DENOTES COMPLETE WITH HEATER AND WEATHER PROOF ENCLOSURE) WALL MOUNTED LOCK DOWN SPEAKER, S - DENOTES C/W STROBE, WP- WEATHERPROOF. UNLESS OTHERWISE	
<u> </u>	NOTED, RUN 19mm CONDUIT AND TERMINATE IN CORRIDOR CABLE DUAL HANGERS, TERMINATION OF CONDUIT IN EXPOSED OR DRYWALL CEILING AREAS IS NOT ACCEPTABLE. ELK-1RT SPEAKER WITH ELK-SL1A STROBE (AMBER). FLUSH WALL/CEILING MOUNTED P.A. SPEAKER BACK BOX. UNLESS OTHERWISE NOTED, RUN 19MM CONDUIT AND	
⊌	TERMINATE IN CORRIDOR CABLE DUAL HANGERS, TERMINATION OF CONDUIT IN EXPOSED OR DRYWALL CEILING AREAS IS NOT ACCEPTABLE.	

0_0	
DC	SECURITY SYSTEM DOOR CONTACT
ф	OUTLET FOR ANALOG CLOCK C/W RECESSED DUPLEX RECEPTACLE FOR CLOCK, HUBBELL CAT. #RR1510W.
DCL	OUTLET FOR DIGITAL CLOCK
TV	OUTLET BOX FOR FLUSH WALL MOUNTED CABLE T.V. SYSTEM (RUN 19 MMC AND TERMINATE AT CORRIDOR CABLE MANAGEMENT DUAL HANGER). TERMINATION OF CONDUITS IN EXPOSED OR IN GYPSUM BOARD CEILINGS IS NOT ACCEPTABLE.
JB	JUNCTION OR PULL BOX
SP	SHORT THROW PROJECTOR
<u>cctv</u> ≮	FLUSH WALL OR CEILING MOUNTED OUTLET AND VIDEO SURVEILLANCE CAMERA. TRIANGLE INDICATE DIRECTION OF COVERAGE (UNLESS OTHERWISE NOTED, RUN 19MM CONDUIT AND TERMINATE IN CORRIDOR CABLE DUAL HANGERS, TERMINATION OF CONDUIT IN EXPOSED OR DRYWALL CEILING AREAS IS NOT ACCEPTABLE).
	CEILING/WALL MOUNTED LOCK DOWN STROBE. UNLESS OTHERWISE NOTED.
EX	DENOTES EXISTING ITEM TO REMAIN
ER	DENOTES EXISTING ITEM TO BE RELOCATED. EXTEND EXISTING CONDUIT & WIRES TO NEW LOCATION, UNLESS OTHERWISE NOTED.
RP	DENOTES EXISTING ITEM IN RELOCATED POSITION. UNLESS OTHERWISE NOTED, EXTEND EXISTING CONDUIT AND WIRES FROM ITEM PREVIOUS LOCATION AND CONNECT.
RM	DENOTES EXISTING ITEM TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
ER/RP	DEVICES TO BE TEMPORARILY DISCONNECTED AND REMOVED FROM THEIR LOCATIONS AND RE-INSTALLED TO THE ORIGINAL LOCATIONS AND CONNECTED TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS.

DENOTES FIRE SMOKE DAMPER

ELECTRICAL DRAWING LIST						
DRAWING NO.	DRAWING NAME					
E001	SYMBOL LIST AND DETAILS					
E100	GROUND FLOOR KEY PLAN					
E200	GROUND FLOOR (SOUTH EAST WING) DEMOLITION LAYOUT					
E201	GROUND FLOOR (SOUTH EAST WING) MODIFICATION LAYOUT					
E202	GROUND FLOOR ELECTRICAL ROOMS MODIFICATION LAYOUT					
E300	PARTIAL ROOF PLAN MODIFICATION LAYOUT					
E400	SINGLE LINE DIAGRAM & FIRE ALARM RISER					
E500	PANEL SCHEDULE					

ELECTRICAL EQUIPMENT MOUNTING HEIGHTS (HANDICAP ACCESSIBLE AREAS)

- . ELECTRICAL OUTLETS AND TELEPHONE OUTLETS: 400mm A.F.F. TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED.
- 2. LIGHT SWITCHES: 1000mm A.F.F. TO TOP OF SWITCHES
- 3. TEMPERATURE SENSING DEVICES: 1200mm A.F.F. TO TOP OF OUTLET BOX. (SEE
- MECHANICAL).
- 4. WALL MOUNTED TELEPHONE: 1200mm A.F.F. TO TOP OF OUTLET
- 5. FIRE ALARM PULL STATIONS: 1200mm A.F.F. TO TOP OF OUTLET
- 6. WALL MOUNTED P/A SPEAKER BOXES: 2200mm A.F.F. TO BOTTOM OF BOX
- 7. ELECTRICAL PANELS: 1800mm A.F.F. TO TOP OF PANEL 8. FIRE ALARM SPEAKER/STROBES: 2400mm A.F.F. TO TOP OF OUTLET BOX
- 9. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECT/OWNER PRIOR TO ANY

GENERAL NOTES

- 1. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCH. DRAWINGS.
- 2. EXACT LOCATION FOR ALL OUTLETS SHALL BE COORDINATED WITH ARCHITECT PRIOR
- 3. FOR EXACT LOCATION OF ALL A/C UNITS, PUMPS, FANS, MOTORS, HEATERS, ETC., SEE MECHANICAL DRAWINGS.
- 4. ALL RECEPTACLES IF LOCATED FARTHER THAN 30,000mm FROM THE RESPECTIVE ELECTRICAL PANEL'S SHALL BE WIRED WITH #10 AWG AND FARTHER THAN 60,000mm SHALL BE WIRED WITH #8 AWG.
- 5. CO-ORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- 6. STARTERS FOR FANS SHALL BE LOCATED ADJACENT TO CORRESPONDING PANEL BOARDS UNLESS OTHERWISE SHOWN.
- . ELECTRICAL CONTRACTOR SHALL CO-ORDINATE THEIR WORK TO SUIT THE PROJECT
- PHASE SCHEDULE.
- ALL DUPLEX RECEPTACLES, F.A. PULL STATIONS AND SWITCHES SHALL BE FLUSH MOUNTED EXCEPT IN MECHANICAL ROOMS WHERE SURFACE MOUNTED INSTALLATION IS ACCEPTABLE.
- ALL SYSTEMS CONDUIT(S) SHALL BE INSTALLED CONCEALED IN WALL(S) IN ALL AREAS. IF THE WALL(S) ARE NOT ACCESSIBLE/FEASIBLE FOR CONDUITS TO INSTALL INSIDE THE WALL THEN SURFACE MOUNTED SHALLOW WIREMOLD RACEWAY SHALL BE INSTALLED. INSTALLATION OF SURFACE MOUNTED CONDUIT IS NOT ACCEPTABLE.
- PROVIDE BUSHINGS AT BOTH ENDS OF EACH CONDUIT/SLEEVE TERMINATED IN CEILING
- . PROVIDE BLANK COVER PLATES FOR ALL UNUSED NEW AND EXISTING OUTLET BOXES.
- 2. PROIVDE PROTECTIVE COVER FOR ALL SMOKE DETECTORS IN EACH CLASSROOM, SCIENCE ROOMS, ETC. THAT IS AFFECT BY THE RENOVATION WORK. REMOVE THE COVER AT THE END OF CONSTRUCTION.

NOTES: (RE-DEMOLITION LAYOUT)

- DEMOLITION OF EXISTING MATERIALS AND/OR EQUIPMENT AS SHOWN ON DRAWINGS BY ELECTRICAL CONTRACTOR. WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH APPLICABLE PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS.
- 2. DISCONNECT AND REMOVE ALL EQUIPMENT DESIGNATED FOR REMOVAL, RECONNECT ALL EQUIPMENT WHERE REQUIRED AND DISCONNECT AND CAP, OR ARRANGE FOR DISCONNECTING AND CAPPING, ALL MAIN SERVICES IN ACCORDANCE WITH THE
- AUTHORITIES HAVING JURISDICTION. ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR SALVAGE SHALL BE TURNED OVER TO THE OWNER. ALL OTHER MATERIALS AND/OR EQUIPMENT DESIGNATED FOR REMOVAL BECOMES THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL THE MATERIALS AND/OR EQUIPMENT BE SOLD DIRECTLY FROM THE SITE.
- CONTACT OWNER PRIOR TO ANY DEMOLITION WORK, THE OWNER WILL DESIGNATE WHICH EQUIPMENT AND/OR MATERIALS ARE TO BE SALVAGED. DEMOLITION WORK IS
- TO PROCEED ONLY AFTER OWNER'S APPROVAL HAS BEEN OBTAINED. 5. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT WHICH SHALL BE REMOVED,
- COORDINATE WITH MECHANICAL DIVISION DRAWINGS.
- 6. FOR ALL EXISTING EQUIPMENT WHICH SHALL BE REMOVED, ELECTRICAL CONTRACTOR SHALL MAKE WIRING SAFE.
- 7. FOR EXACT LOCATION OF ALL EXISTING EQUIPMENT COORDINATE ON SITE.
- MAKE REMAINING WIRING SAFE AND REMOVE ALL REDUNDANT CONDUITS AND WIRES
 BACK TO PANEL OF ORIGIN. ADJUST ALL EXISTING WIRING TO ACCOMMODATE LAYOUT
 CHANGES AND TO KEEP OPERATIONAL EXISTING ELECTRICAL EQUIPMENT AND
- 9. COORDINATE WITH OWNER THE DISPOSAL OF ALL REDUNDANT DEVICES AND/OR MATERIALS RESULTED FROM ELECTRICAL DEMOLITION.
- 10. VISIT SITE, EXAMINE EXISTING CONDITIONS, FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM DESCRIBED AND SPECIFIED UNDER THIS SECTION. IF IN DOUBT, CONTACT ENGINEER BEFORE SUBMITTING THE TENDER PRICE. NO ALLOWANCE WILL BE ALLOWED LATER DUE TO FAILURE OF THIS DIVISION TO MAKE THIS EXAMINATION.
- 1. EXISTING ELECTRICAL EQUIPMENT WHICH BECOMES REDUNDANT SHALL BE COMPLETELY DISCONNECTED AND REMOVED FROM THE SITE.
- 12. FOR EXISTING EQUIPMENT WHICH SHALL BE RELOCATED ADJUST CONDUITS AND WIRES TO SUIT. EXISTING EQUIPMENT TO REMAIN ARE SHOWN FOR CLARIFICATION
- 13. WHENEVER EXISTING ELECTRICALLY OPERATED EQUIPMENT IS REMOVED FROM ITS PRESENT LOCATION OR RE-INSTALLED ELSEWHERE, REMOVE REDUNDANT EXISTING CONDUITS, BOXES, CABLES, FIXTURES. ETC. OPENINGS IN BOXES, RACEWAYS, PANELS, ETC. WHICH MAY RESULT FROM SUCH REMOVAL OF EQUIPMENT, SHALL BE CLOSED IN PROPER MANNER AND ALL CABLES AND WIRES PROPERLY TERMINATED AND INSULATED TO RESTORE THE SYSTEM TO A SAFE AND SOUND CONDITION AND TO THE ARCHITECT'S SATISFACTION.
- 4. IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR DRAWING THAT EQUIPMENT AND MATERIALS TO BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED, EITHER IN WHOLE OR IN PART, IN NEW LOCATIONS, ALL SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION.
- WHERE THE EXISTING EQUIPMENT IS NOT TO BE ULTIMATELY RELOCATED BUT INTERFERES WITH THE CONSTRUCTION, THE EQUIPMENT SHALL BE TEMPORARILY RELOCATED UNTIL SUCH TIME AS THE NEW WORK IS COMPLETED SERVICES TO TEMPORARILY RELOCATED EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
- 6. WHERE A DEVICE OR EQUIPMENT IS REMOVED, ALL ASSOCIATED SURFACE CONDUITS, PULL BOXES SHALL BE TERMINATED AND ABANDONED IN CEILING SPACE AND SHALL BE MADE SAFE. ALL ASSOCIATED CONDUITS AND OUTLET BOXES/PULL BOXES INSIDE THE REMAINING WALLS SHALL REMAIN AND PROVIDE BLANK COVERS FOR UNUSED BOXES. ALL ASSOCIATED WIRING/DATA CABLES/VOICE CABLES SHALL BE REMOVED FROM
- 17. TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
- 18. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK TO SUIT THE PROJECT PHASE SCHEDULE.
- 9. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL CONDUIT AND WIRING OF MECHANICAL EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED.
- ALL REDUNDANT, OBSOLETE COMMUNICATION AND POWER WIRING, CONDUIT AND JUNCTION BOXES SHALL BE REMOVED.

2050 Guelph Line Burlington, Ontario

Halton District School Board

NELSON HIGH SCHOOL BOILER REPLACEMENT

4181 NEW STREET Burlington, Ontario

Architect

Snyder Architects Inc. t e I . 4 1 6 . 9 6 6 . 5 4 4 4 www.snyderarchitects.ca

Consultants

Mechanical and Electrical Consultants RDZ Engineering Ltd 30 Pennsylvania Avenue, Unit 17A Vaughan, Ontario, L4K 4A5 Tel: - -

> Structural Consultants Kalos Engineering Inc. 3oo York Boulevard, Hamilton, Ontario, L8R 3K6 Tel: 905-333-9119

Key Plan N.T.S.



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2	ISSUED FOR PERMIT & PRICING	2024 10 30
1	ISSUED FOR REVIEW	2024 09 27
No.	Issue	Date

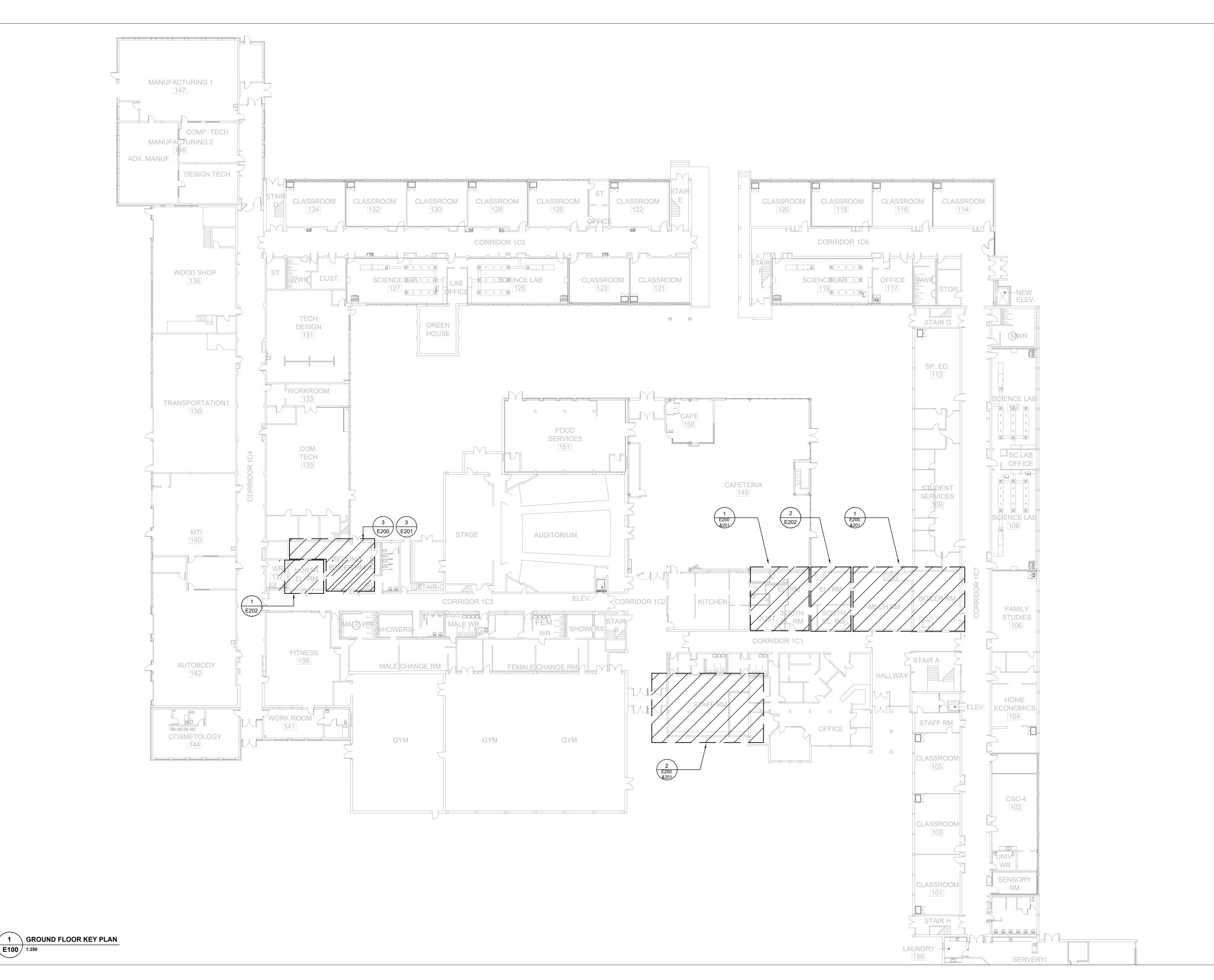
Drawings shall not be used for construction purposes until issued by the

Drawing Title:

Architect for construction.

SYMBOL LIST

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Halton District School Board

2050 Guelph Line Burlington, Ontario

NELSON HIGH SCHOOL BOILER REPLACEMENT

4181 NEW STREET Burlington, Ontario

Architect

Snyder Architects Inc. 100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3 tel. 4 1 6 . 9 6 6 . 5 4 4 4 www.snyderarchitects.ca

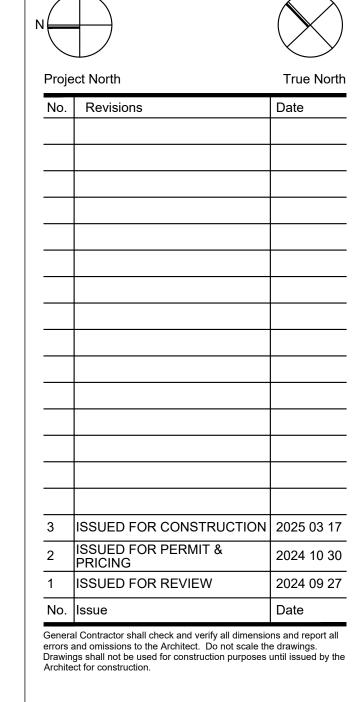
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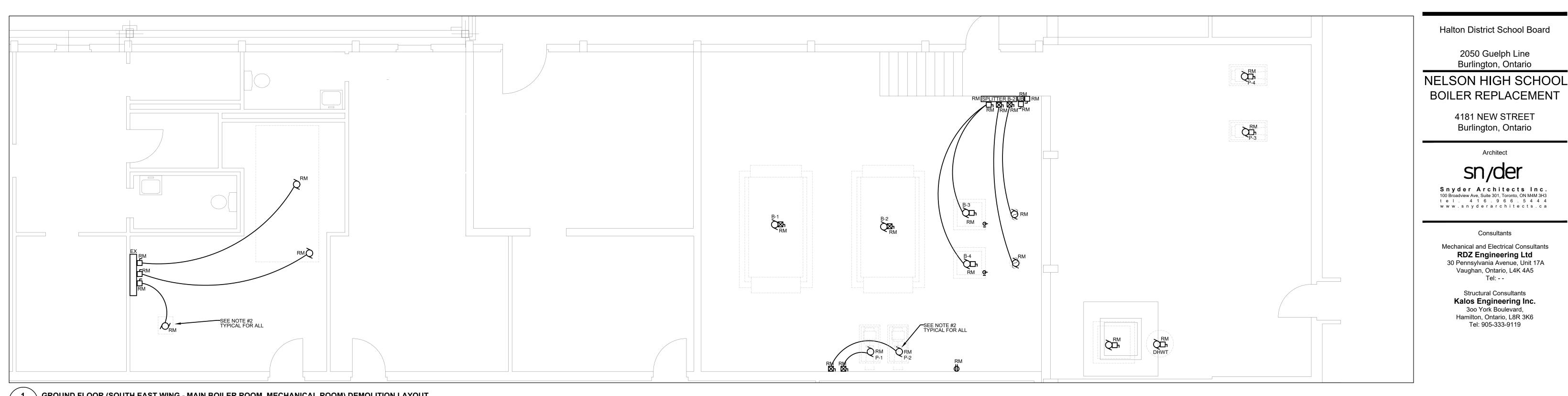
Key Plan N.T.S.



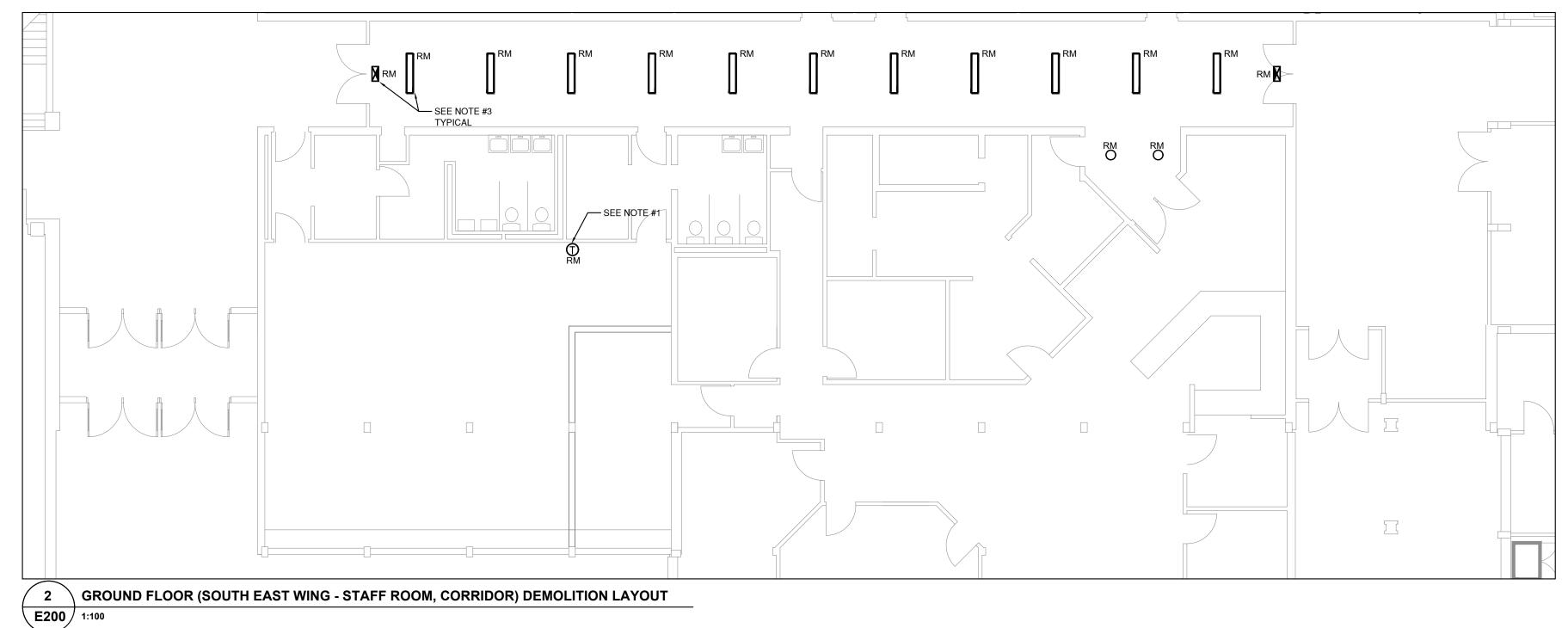
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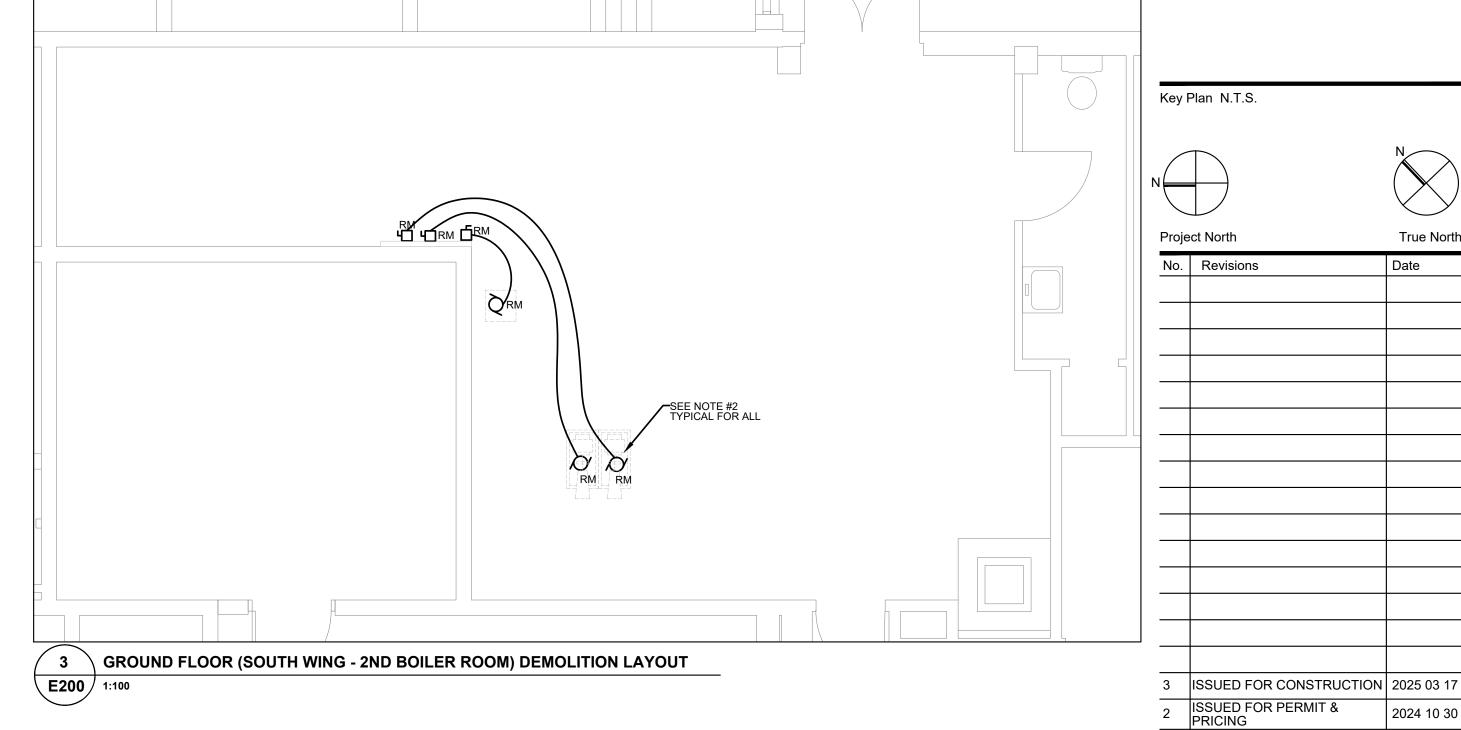
GROUND FLOOR KEY PLAN

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1 \ GROUND FLOOR (SOUTH EAST WING - MAIN BOILER ROOM, MECHANICAL ROOM) DEMOLITION LAYOUT E200 1:50

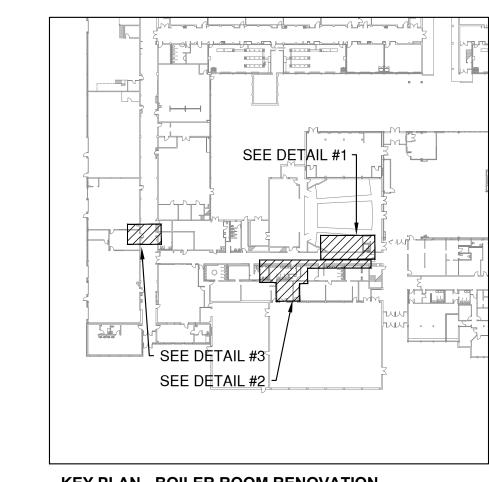




1. EXISTING WALL MOUNTED THERMOSTAT SHALL BE DISCONNECT AND REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

2. ELECTRICAL CONTRACTOR SHALL DISCONNECT THE FEEDER TO THE EXISTING MECHANICAL EQUIPMENT TO SUIT MECHNICAL DEMOLITION WORK. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. COORDINATE ALL WORK WITH MECHANICAL

3. IN EXISTING CORRIDOR, DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND EXIT SIGNS TO SUIT REMOVAL OF CEILING WORK. MAKE SAFE OF EXISTING WIRING TO RECONNECT TO NEW FIXTURE AT THE SAME LOCATION. COORDINATE ALL WORK WITH GC



KEY PLAN - BOILER ROOM RENOVATION

N.T.S.

GROUND FLOOR (SOUTH EAST WING) DEMOLITION LAYOUT

1 ISSUED FOR REVIEW

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

2050 Guelph Line Burlington, Ontario

4181 NEW STREET

Burlington, Ontario

Architect

Consultants

Vaughan, Ontario, L4K 4A5 Tel: - -

Structural Consultants Kalos Engineering Inc. 3oo York Boulevard, Hamilton, Ontario, L8R 3K6 Tel: 905-333-9119

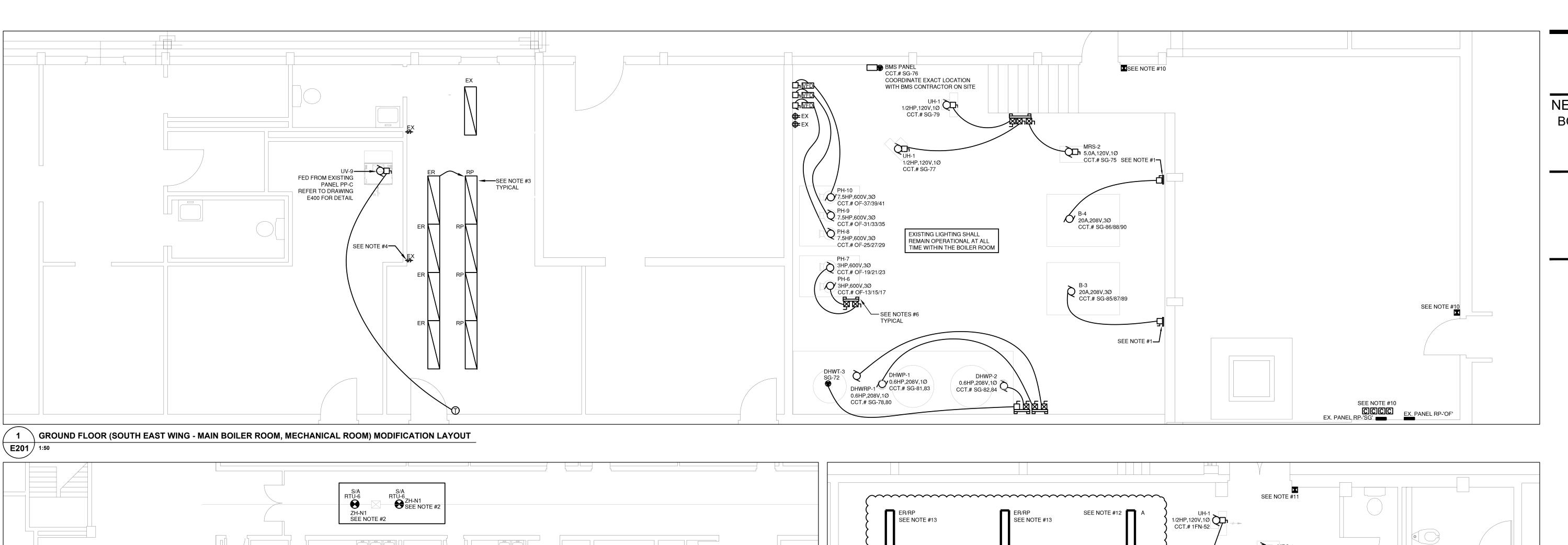
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Date

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4181 NEW STREET Burlington, Ontario

Architect

Snyder Architects Inc. tel. 416.966.5444 www.snyderarchitects.ca

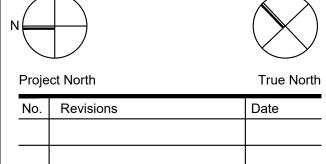
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Tel: - -

Key Plan N.T.S.



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2024 09 27

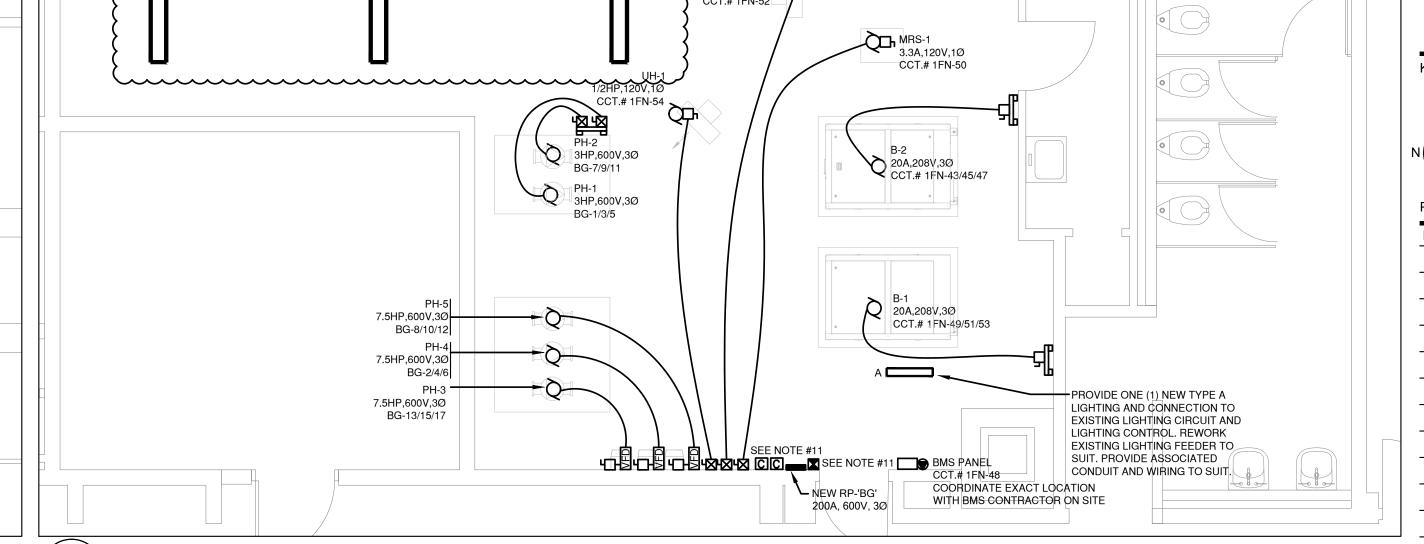
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SEE DETAIL #2 SEE DETAIL #3

KEY PLAN - BOILER ROOM RENOVATION

GROUND FLOOR (SOUTH EAST WING) MODIFICATION LAYOUT

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TYPICAL

3 \ GROUND FLOOR (SOUTH WING - 2ND BOILER ROOM) MODIFICATION LAYOUT

- 1. PROVIDE FREE STANDING (BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF
- UN-FUSED DISCONNECT SWITCH. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR

WORK. REWORK EXISTING CONDUIT & WIRING AND EXTEND TO SUIT. COORDINATE ALL WORK WITH MECHANICAL

SUPPLY AIR DUCT WITH MECHANICAL CONTRACTOR TO AVOID FALSE FIRE ALARMS. 3. EXISTING PENDANT MOUNTED LINEAR FIXTURE SHALL BE RELOCATED AS SHOWN TO SUIT NEW MECHANICAL

2. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DUCT SMOKE DETECTOR(S) MOUNTED ON

- 4. REWORK AND EXTEND SWITCHING WIRING TO MAINTAIN THE SAME SWITCH CONTROL FOR THE RELOCATED
- 5. EXISTING RECESSED MOUNTED 2X4 LIXTURE SHALL BE RELOCATED AS SHOWN TO SUIT NEW MECHANICAL WORK. REWORK EXISTING CONDUIT & WIRING AND EXTEND TO SUIT. COORDINATE ALL WORK WITH MECHANICAL
- 6. PROVIDE FREE STANDING (BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF COMBINATION STARTER & DISCONNECT SWITCH. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL
- CONTRACTOR AND ON SITE. 7. EXISTING LOCK DOWN DEVICE, CAMERA, SMOKE DETECTOR, REMOTE HEADS SHALL BE DISCONNECTED TO SUIT CEILING REPLACEMENT. MAKE SAFE OF EXISTING WIRING. UPON COMPLETION OF NEW CEILING, REINSTALL EXISTING DEVICES AT THE SAME PLACE AND RECONNECT TO EXISTING WIRING. INCLUDE FOR TESTING AND
- VERIFICATION OF ALL RE-INSTALLED DEVICES. 8. PROVIDE NEW SURFACE MOUNTED TYPE 'A' AND RECESS MOUNTED TYPE 'B' LED FIXTURE AND RECONNECT TO
- EXISTING LIGHTING CIRCUIT PREVIOUSLY FEEDING THE REMOVED LIGHT FIXTURE AT THE SAME LOCATION 9. PROVIDE NEW PICTORGRAM AND RE-CONNECT TO EXISTING EXIT SIGN CIRCUIT OBTAINED FROM DEMOLITION
- TANK GAS BURNERS & HWT RECIRC. PUMPS ON CIRCUIT CCT.#SG-72 & SG-78,80 & SG-85,87,89 & SG-86,88,90. PROVIDE 4-3P CONTACTORS (COORDINATE SUITABLE INSTALLATION LOCATION ON SITE) AND CONNECT TO BOILER'S CONTROL PANEL. (COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL WORK ON SITE). REFER TO
- 11. ILLUMINATED EMERGENCY PUSH BUTTON (RED MUSHROOM TYPE) FOR SHUT DOWN OF BOILERS, ON CIRCUIT CCT.#1FN-49,51,53 & 1FN-43,45,47. PROVIDE 2-3P CONTACTORS (COORDINATE SUITABLE INSTALLATION LOCATION ON SITE), WITH COIL VOLTAGE ON CCT.#1FN-46 AND CONNECT TO BOILER'S CONTROL PANEL. (COORDINATE WITH MECHANICAL CONTRACTOR ON SITE FOR ALL WORK ON SITE). REFER TO DRAWING E400 FOR FURTHER DETAIL
- 12. PROVIDE NEW TYPE A FIXTURE INSTALLED BELOW THE NEW DRYWALL CEILING. CONNECT TO NEAREST EXISTING LIGHTING CIRCUIT TO SUIT. REWORK EXISTING CONDUIT, WIRING AND EXTEND TO SUIT.
- 13. EXISTING LIGHT FIXTURE SHALL BE DISCONNECTED AND REMOVED TO SUIT INSTALLATION OF NEW ARCHITECTURAL DRYWALL CEILING. RE-INSTALL THE LIGHT FIXTURES AT THE SAME LOCATION BELOW THE NEW DRYWALL CEILING. REWORK EXISTING CONDUIT AND WIRING TO SUIT.

4 \ GROUND FLOOR (SOUTH EAST WING - CORRIDOR) MODIFICATION LAYOUT

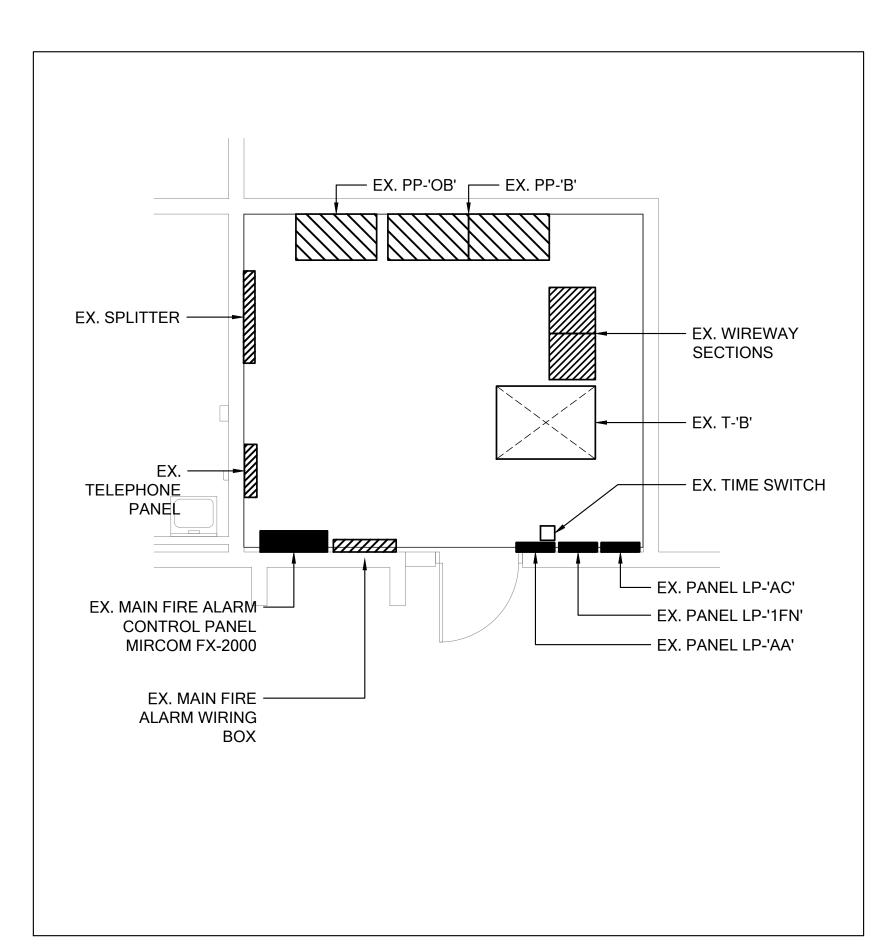
PANEL PP-C

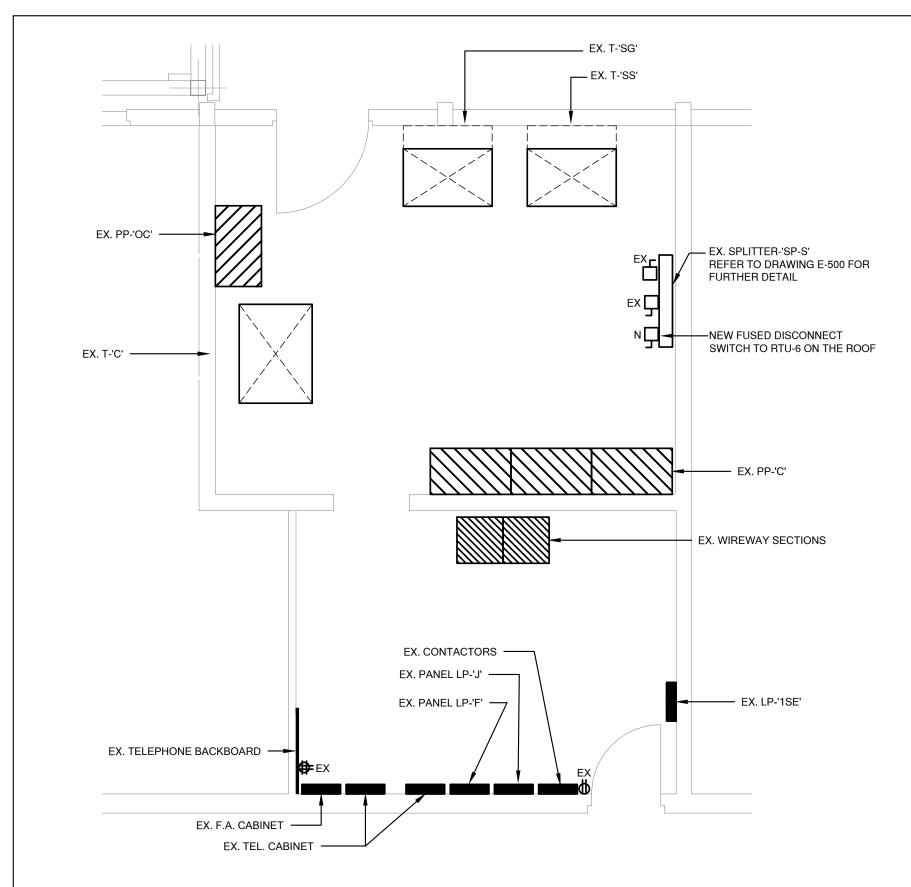
√ GROUND FLOOR (SOUTH EAST WING - STAFF ROOM, CORRIDOR) MODIFICATION LAYOUT

REFER TO DRAWING E400

ER/RP

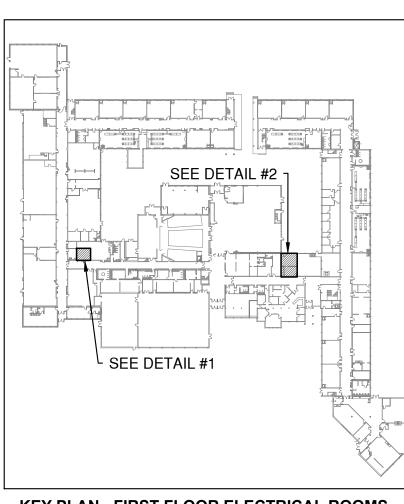
E201 1:100





1 NORTH ELECTRICAL ROOM POWER LAYOUT E202 1:50

2 TRANSFORMER VAULT AND SOUTH ELECTRICAL ROOM POWER LAYOUT E202 1:50



KEY PLAN - FIRST FLOOR ELECTRICAL ROOMS

N.T.S.

Halton District School Board

2050 Guelph Line Burlington, Ontario

NELSON HIGH SCHOOL BOILER REPLACEMENT

4181 NEW STREET Burlington, Ontario

Architect

sn/der

Snyder Architects Inc.
100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3
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Consultants

Mechanical and Electrical Consultants

RDZ Engineering Ltd

30 Pennsylvania Avenue, Unit 17A

Vaughan, Ontario, L4K 4A5

Tel: - -

Structural Consultants **Kalos Engineering Inc.**300 York Boulevard,
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

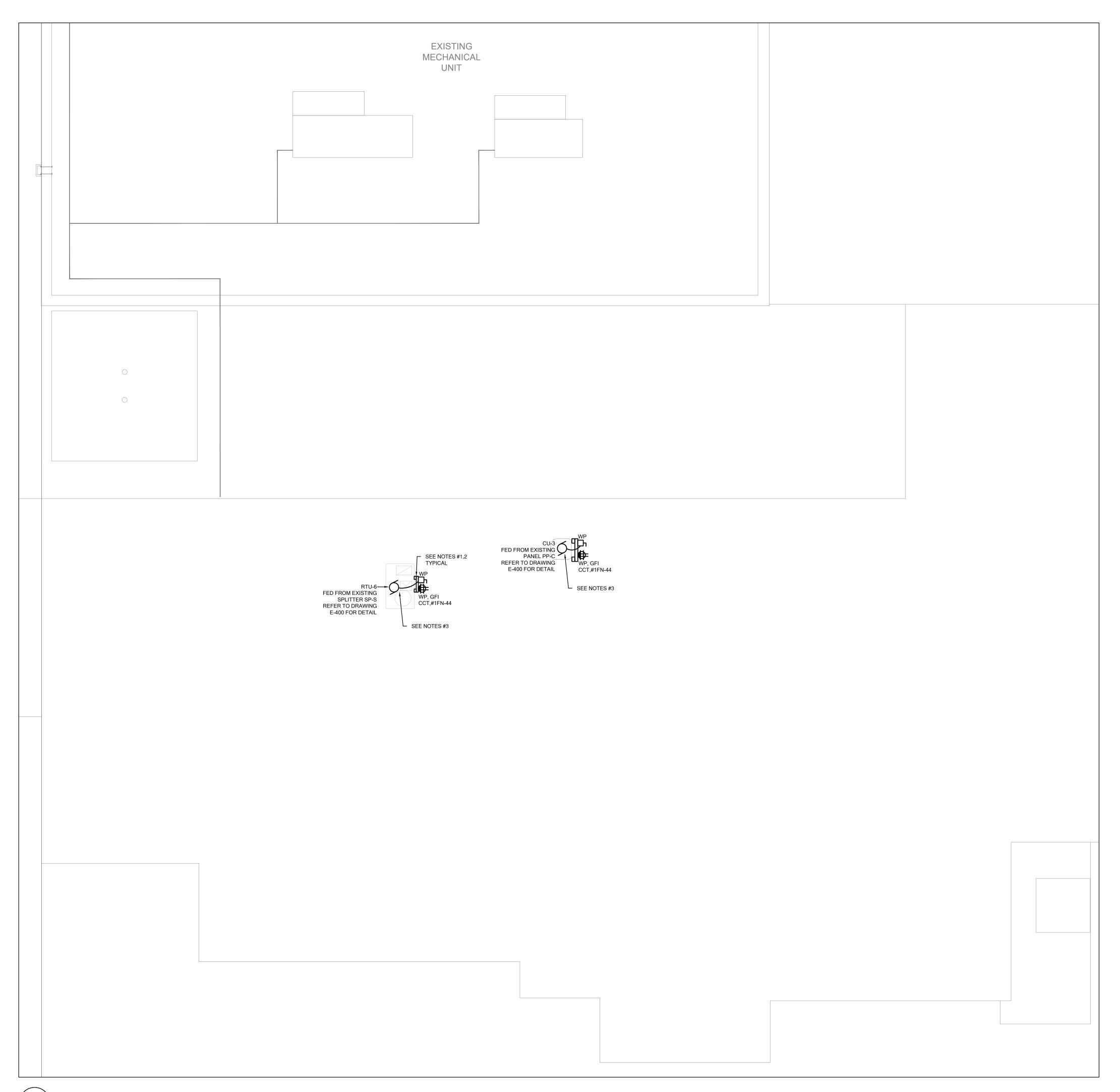
Key Plan N.T.S.



Proje	ect North	True No
No.	Revisions	Date
3	ISSUED FOR CONSTRUCTION	2025 03 1
2	ISSUED FOR PERMIT & PRICING	2024 10 3
1	ISSUED FOR REVIEW	2024 09 2
No.	Issue	Date
errors	al Contractor shall check and verify all dimensio and omissions to the Architect. Do not scale the igs shall not be used for construction purposes	e drawings.

Drawing Title:
GROUND FLOOR
ELECTRICAL ROOM
MODIFICATION LAYOUT

Scale:	AS SHOWN	Date:	OCTOE	BER 2024
Drawn by:	FH	Check	ed by:	TM
Job No.		Drawir	ng No.	
231	178A		E	202



1 PARTIAL ROOF FLOOR MODIFICATION LAYOUT E300 1:75

NOTES

- PROVIDE FREE STANDING (BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF WEATHERPROOF DISCONNECT SWITCH/WEATHERPROOF GFI SERVICE DUPLEX RECEPTACLE. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR AND ON SITE.
- 2. 15/20A,120V COMBINATION WEATHERPROOF GFI SERVICE DUPLEX RECEPTACLE C/W WEATHERPROOF IN-USE COVER AND "EXTRA DUTY" LABEL, SIMILAR TO HUBBELL CAT#MX3200.
- 3. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF MECHANICAL EQUIPMENT ON SITE.

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NELSON HIGH SCHOOL BOILER REPLACEMENT

4181 NEW STREET Burlington, Ontario

Architect

sn/der

Snyder Architects Inc.

100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3
tel. 4 1 6 . 9 6 6 . 5 4 4 4
www.snyderarchitects.ca

Consultants

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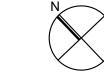
Vaughan, Ontario, L4K 4A5

Tel: --

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Key Plan N.T.S.

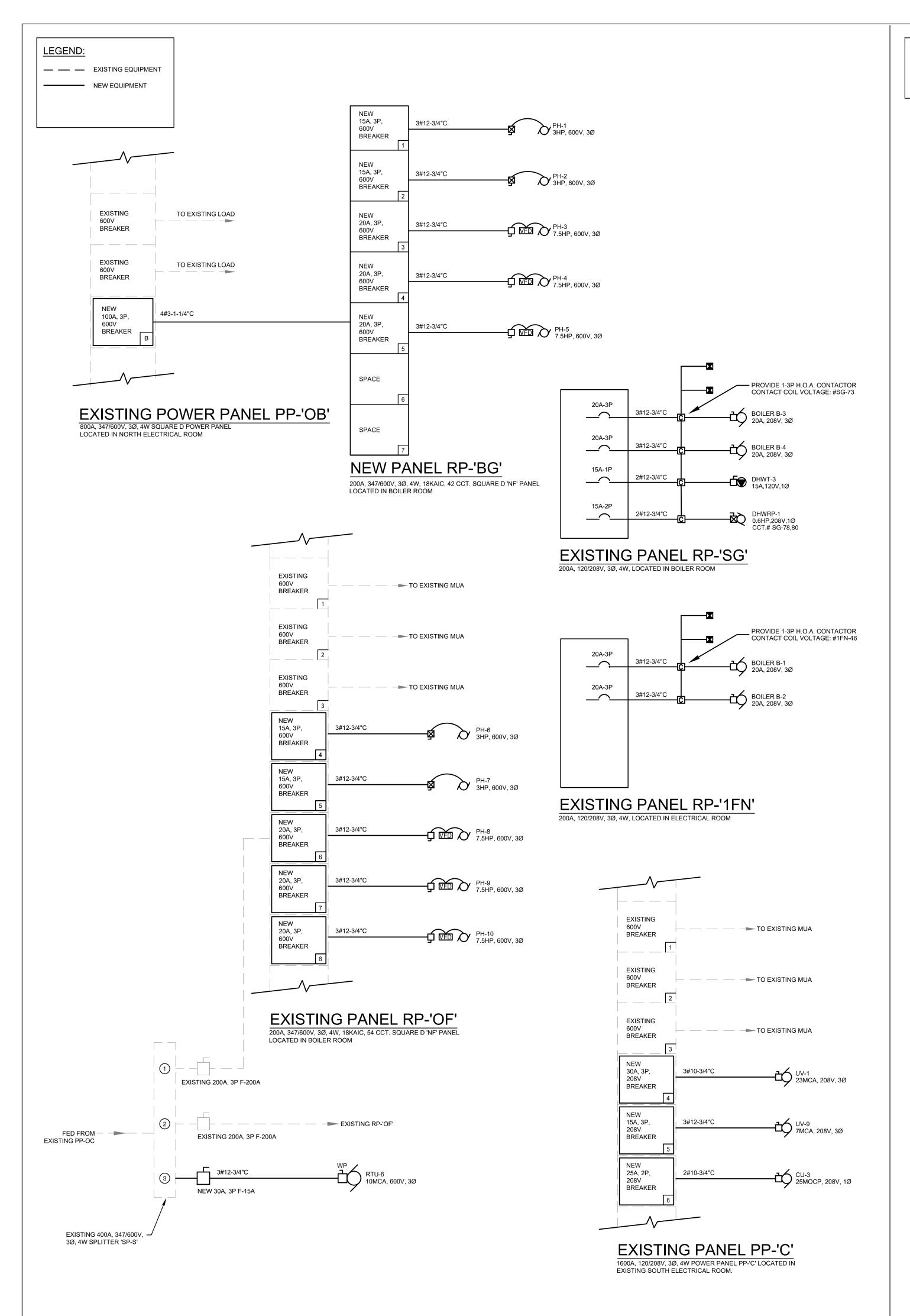




Proje	ect North	True No
No.	Revisions	Date
3	ISSUED FOR CONSTRUCTION	2025 03
2	ISSUED FOR PERMIT & PRICING	2024 10
1	ISSUED FOR REVIEW	2024 09
No.	Issue	Date
errors Orawir	al Contractor shall check and verify all dimension and omissions to the Architect. Do not scale the ligs shall not be used for construction purposes leed for construction.	e drawings.

PARTIAL ROOF PLAN
MODIFICATION
LAYOUT

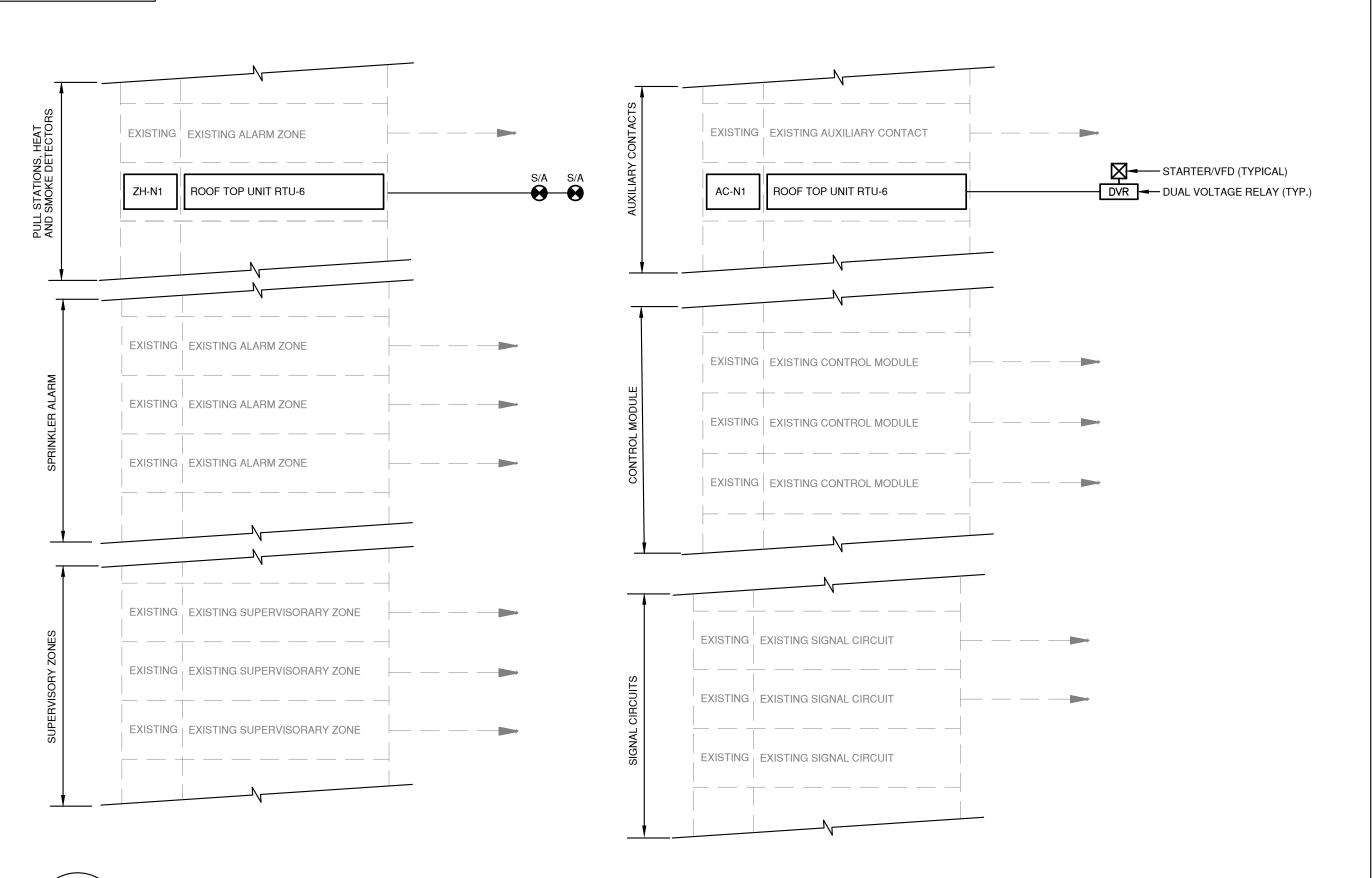
Scale:	1:100	Date:	ОСТО	BER 2024
Drawn by:	FH	Check	ed by:	TM
Job No.		Drawir	ng No.	
2317	8A		Ε	300



LEGEND:

— EXISTING EQUIPMENT

NEW EQUIPMENT



E400

FIRE ALARM SYSTEM RISER DIAGRAM

(EXISTING MAIN F.A. CONTROL PANEL LOCATED IN THE GROUND FLOOR NORTH ELECTRICAL ROOM, REFER TO DRAWING E202, DETAIL #1)

NOTES

COORDINATE ON SITE.

- 1. PROVIDE ALL ASSOCIATED FIRE ALARM SYSTEM DEVICES, CONDUIT/WIRING, PROGRAMMING AND TEST/VERIFICATION FOR THE CONNECTION TO THE SPRINKLER SUPERVISORY VALVE.
- 2. EXISTING FIRE ALARM CONTROL PANEL (MIRCOM FX-2000) AND FIRE ALARM ANNUNCIATOR SHALL BE MODIFIED/EXTENDED TO SUIT EXISTING AND ADDITION OF NEW ZONES. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT. COORDINATE WITH PROJECT
- 3. ALL WIRING SHALL BE RUN IN CONDUIT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL WIRING SHALL BE RUN IN CONDUIT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 AFTER COMPLETION OF F.A. SYSTEM, PROVIDE F.A. SYSTEM VERIFICATION BY F.A. SYSTEM MANUFACTURER/INSTALLER (PART OF THIS CONTRACT).
- 5. FIRE ALARM ZONE NUMBERS/AUXILLIARY CONTACT NUMBERS ARE SHOWN FOR REFERENCE AND INTENT ONLY. ELECTRICAL
- CONTRACTOR SHALL VERIFY ON SITE EXACT NUMBERS. ADJUST ALL COMPONENTS TO SUIT.
- 6. EXISTING F.A. SYSTEM IN EXISTING BUILDING SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
 7. ALL EXISTING CONNECTIONS TO EXISTING F.A. SYSTEM NOT AFFECTED BY THIS RENOVATION SHALL REMAIN AND OPERATIONAL.
- 8. PROVIDE NEW CONDUIT COMPLETE WITH NEW WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- 9. IN ACTUATION OF ANY FIRE ALARM ZONE, AUXILIARY CONTACTS AC-N1 TO AC-N5 SHALL BE ENERGIZED AND SHALL SHUT DOWN CORRESPONDING ROOF TOP UNITS.
- 10. DVR RELAYS FOR AC-N1 TO AC-N5 SHALL BE COMPLETE WITH THE TIME DELAY PROVISIONS (ROOF TOP UNITS CAN NOT START SIMULTANEOUSLY) COORDINATE WITH MECHANICAL CONTRACTOR.
- 11. PROVIDE ALL NECESSARY RELAYS AND COMPONENTS TO ACHIEVE LOSS OF POWER (CIRCUIT FAILURE) OF EACH CIRCUIT FOR RESPECTIVE PANEL.
- 12. CONDUCT COMMISSIONING, TESTING, OPERATION AND VERIFICATION OF ALL FIRE/SMOKE DAMPERS AND ASSOCIATED DUCT SMOKE DETECTORS AS PART OF INTEGRATED LIFE SAFETY SYSTEM TESTING.
- 13. FOR MORE INFORMATION REFER TO ELECTRICAL SPECIFICATION.
- 14. CONTRACTOR SHALL UTILIZE EXISTING SPARE ZONES (PREVIOUSLY DELETED DURING DEMOLITION WORK) FOR NEW ZONES.

Drawing Title:

SINGLE LINE DIAGRAM
& FIRE ALARM RISER

 Scale:
 N.T.S.
 Date:
 OCTOBER 2024

 Drawn by:
 FH
 Checked by:
 TM

 Job No.
 Drawing No.
 E400

3 ISSUED FOR CONSTRUCTION 2025 03 17

General Contractor shall check and verify all dimensions and report all

errors and omissions to the Architect. Do not scale the drawings.

2 ISSUED FOR PERMIT & PRICING

1 ISSUED FOR REVIEW

No. Issue

Halton District School Board

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4181 NEW STREET

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Architect

Snyder Architects Inc.100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3
t e I . 4 1 6 . 9 6 6 . 5 4 4 4

www.snyderarchitects.ca

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True North

2024 10 30

2024 09 27

Date

Key Plan N.T.S.

Project North

No. Revisions

EXISTING PANEL LP-'1FN' 225A MAINS, 54CCTS, 120/208V, 3Ø, 4W, 14KAIC SURFACE MOUNTED PANEL

LOCATION: G/F SOUTH ELECTRICAL RM.

DESCRIPTION	LOAD (W)	BRKR SIZE	A	В	3 C	BRKR SIZE	LOAD (W)	DESCRIPTION
EXISTING LOAD		EX	1 🚽	\dashv	2	EX		EXISTING LOAD
EXISTING LOAD		EX	3 —	4	4	EX		EXISTING LOAD
EXISTING LOAD		EX	5 —	7	6	EX		EXISTING LOAD
EXISTING LOAD		EX	7 -	7	8	EX		EXISTING LOAD
EXISTING LOAD		EX	9 —	4	10	EX		EXISTING LOAD
EXISTING LOAD		EX	11	7	12	EX		EXISTING LOAD
EXISTING LOAD		EX	13-	7	14	EX		EXISTING LOAD
EXISTING LOAD		EX	15	4	16	EX		EXISTING LOAD
EXISTING LOAD		EX	17	7	18	EX		EXISTING LOAD
EXISTING LOAD		EX	19	7	20	EX		EXISTING LOAD
EXISTING LOAD		EX	21	4	-22	EX		EXISTING LOAD
EXISTING LOAD		EX	23-	7	-24	EX		EXISTING LOAD
EXISTING LOAD		EX	25	7	-26	EX		EXISTING LOAD
			27	4	-28			
			29-	7	-30			
			31-	7	-32			
			33-	4	-34			
			35	7	-36			
			37-	7	-38			
			39	4	40			
			41	7	-42			
			43-	7	-44	20A/1P	200	ROOF MAINTENANCE RECEPTACLE
BOILER B-1	4000	20A/3P	45-	4	46	15A/1P	200	COIL VOLTAGE
			47	\exists	48	15A/1P	500	BMS PANEL
			49-	\exists	-50	15A/1P	500	MRS-1
BOILER B-2	4000	20A/3P	51	<u> </u>	-52	20A/1P	1000	UH-1
			53-	\exists	-54	20A/1P	1000	UH-1
				_				

8000

11.4 NOTES:

TOTAL

TOTAL CONNECTED LOAD

3400

EXISTING PANEL RP-'OF' 200A MAINS, 54 CCTS, 347/575V, 3Ø, 4W, 14KAIC SURFACE MOUNTED PANEL LOCATION: G/F CUST

DESCRIPTION	LOAD (W)	BRKR SIZE	A B C			; 	BRKR SIZE	LOAD (W)	DESCRIPTION
			1 →	\vdash	Н	- 2			
EXISTING MUA		EX. 20A/3P	3 -	H	\blacksquare	- 4	EX. 20A/3P		EXISTING MUA
		20//31	5 -		\exists	- 6	20//31		
			7 -			- 8			
EXISTING MUA		EX.	9 –			- 10			
Externite mert		20A/3P	11-		╡	-12			
			13-			-14			
PH-6	3000	15A/3P	15-			—16			
	3000	15A/3F	17-			-18			
			-						
PH-7			19-			-20			
	3000	15A/3P	21-			-22			
			23-		₫	− 24			
			25⊣			- 26			
PH-8	7500	20A/3P	27-			- 28			
			29-		\dashv	- 30			
			31⊸			-32			
PH-9	7500	20A/3P	33-	H	\blacksquare	-34			
			35-		╡	-36			
			37⊸			-38			
PH-10	7500	20A/3P	39-			- 40			
			41-		╡	-42			
			43-	Н		-44			
			45-			- 46			
			47-			− 48			
			49-		\exists	-50			
			51-			-52			
			53-			− 54			
			55→			- 56			
			57-			- 58			
			59-			− 60			
TOTAL	28500							####	
TOTAL CONNECTED L	OAD	28.5	NOT	ES:					
		<u> </u>							

DESCRIPTION	LOAD (W)	BRKR SIZE	A	В	C	BRKR SIZE	LOAD (W)	DESCRIPTION
EX. UV-1 AT CLASS RM. #120		EX. 30A/3P	3 —	+	- 2 - 4	EX. 30A/3P		EX. UV-1 AT SP. ED. #113
EX. UV-1 AT CLASS RM. #118		EX.	7 -		- 6 - 8	EX.		
		30A/3P	9	‡	-10 -12	30A/3P		EX. UV-1 AT FAMILY STUD
EX. UV-1 AT CLASS RM. #116		30A/3P	13 -		-14 -16	EX. 30A/3P		EX. UV-1 AT CLASS RM. #1
EX. UV-1 AT CLASS RM. #114		EX. 30A/3P	19-		-20 -22	EX. 30A/3P		EX. UV-1 AT CLASS RM. #10
EX. UV-4 AT OFFICE #117		EX. 25A/3P	23- 25- 27- 29-	•	-24 -26 -28	EX. 30A/3P		EX. UV-1 AT CLASS RM. #1
EX. MOTORIZED DAMPER EX. MOTORIZED DAMPER EX. DECERTACIE CLASSPOOM		EX. 15A/1P EX. 15A/1P	31-		-32 -34	EX. 30A/3P		EX. UV-1 AT ECONOMIC RI
EX. RECEPTACLE CLASSROOM #120 EX. RECEPTACLE CLASSROOM #118 EX. RECEPTACLE CLASSROOM #116		EX. 15A/1P EX. 15A/1P EX. 15A/1P	35— 37— 39—		-36 -38 -40	EX. 15A/3P		EX. UV-7 AT SCIENCE LAB
#116 EX. RECEPTACLE CLASSROOM #114 EX. RECEPTACLE CLASSROOM #105		EX. 15A/1P EX. 15A/1P	41-		-42 -44	15A/3P EX.		
EX. RECEPTACLE CLASSROOM #103 EX. RECEPTACLE CLASSROOM #101		EX. 15A/1P EX. 15A/1P	45 	+	-46 -48	15A/2P EX.		EX. ERV-2 AT CSC RM.
EX. MOTORIZED DAMPER EX. MOTORIZED DAMPER		EX. 15A/1P EX. 15A/1P	49-		-50 -52	20A/2P		EX. EDH-2 AT CSC RM.
EX. ERV-1 AT SENSOR RM.		EX. 15A/2P	53 -		-54 -56	EX. 15A/3P		EX. UV-3 AT SCIENCE LAB
EX. EDH-1 AT SENSOR RM.		EX. 15A/2P	57— 59—	+	-58 -60 -62	EX. 15A/3P		EX. UV-7 AT SCIENCE LAB
			63— 65—		-64 -66 -68	EX. 15A/3P		EX. UV-8 AT STUDENT SER #109
			69-	+	-70 -72	15A/1P	600	DHWT-3
COIL VOLTAGE	200	15A/1P	73-		-72 -74	10/4/11	000	DIWI-0
MRS-2	1000	20A/1P	75-	+	- 76	15A/1P	200	BMS PANEL
UH-1	1000	20A/1P	77 		-78 -80	15A/2P	600	DHWRP-1
DWHP-1	600	15A/2P	81-	+	-82 -84	15A/2P	600	DWHP-2
BOILER B-3	4000	20A/3P	85— 87— 89—		-86 -88 -90	20A/3P	4000	BOILER B-4
	7800		· I				6000	

EXISTING PANEL RP-'SG'

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Architect

Snyder Architects Inc. 100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3 t e I . 4 1 6 . 9 6 6 . 5 4 4 4 w w w . s n y d e r a r c h i t e c t s . c a

Consultants

Mechanical and Electrical Consultants RDZ Engineering Ltd 30 Pennsylvania Avenue, Unit 17A Vaughan, Ontario, L4K 4A5 Tel: - -

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Key Plan N.T.S.



Project North True North No. Revisions Date

3 ISSUED FOR CONSTRUCTION 2025 03 17 2 ISSUED FOR PERMIT & PRICING 2024 10 30

2024 09 27

Date

1 ISSUED FOR REVIEW

No. Issue

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Drawing Title:
PANEL SCHEDULE

N.T.S. Date: OCTOBER 2024 FH Checked by: TM Drawn by: Job No. Drawing No. 23178A E500