

ELECTRICAL TAG/NAME LEGEND	
SYMBOL	DESCRIPTION
WP	WEATHERPROOF
EX	EXISTING TO REMAIN
REM	REMOVE EXISTING
REL	RELOCATE EXISTING
ER	EXISTING AS RELOCATED

ELECTRICAL LINE TYPE LEGEND	
SYMBOL	DESCRIPTION
	DEMOLITION
	EXISTING
	NEW
	CIRCUIT WIRE
	BELOW GRADE OR SLAB RACEWAY OR FEEDER ROUTE AS NOTED

LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	WALL MOUNT LINEAR LIGHT FIXTURE
	RECTANGULAR LIGHT FIXTURE
	LINEAR LIGHT FIXTURE
	CEILING OR PENDANT LIGHT FIXTURE
	SWITCH 1-GANG, 2-GANG, 3-GANG
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR SWITCH
	OCCUPANCY SENSOR DIMMER SWITCH

EMERGENCY/EXIT LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	EMERGENCY LIGHT HEADS - SINGLE AND DOUBLE
	EXIT SIGN (PRE-2012 OBC)

RECEPTACLE LEGEND	
SYMBOL	DESCRIPTION
	GFI RECEPTACLE
T	20 AMP T-SLOT RECEPTACLE

EQUIPMENT AND CONNECTION LEGEND	
SYMBOL	DESCRIPTION
	ELECTRICAL PANEL
	DISCONNECT
	CONNECTION TO MOTOR OR MOTORIZED PIECE OF EQUIPMENT
	DIRECT CONNECTION
	PUSH BUTTON

COMMUNICATION LEGEND	
SYMBOL	DESCRIPTION
	CEILING WIRELESS ANTENNAE OUTLET
	CEILING P/A SPEAKER

FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	RATE-OF-RISE HEAT DETECTOR
	SMOKE DETECTOR SUBSCRIPT A- ADDRESSABLE
	SINGLE POINT ADDRESSABLE CONTROL MODULE
	ISOLATION MODULE
	CONTROL PANEL

BARRIER FREE LEGEND	
SYMBOL	DESCRIPTION
	ELECTRIC DOOR OPERATOR
	BARRIER FREE DOOR OPERATOR PUSH BUTTON

SECURITY AND ACCESS CONTROL LEGEND	
SYMBOL	DESCRIPTION
	CLOSED-CIRCUIT VIDEO CAMERA
	ELECTRIC STRIKE

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

- PROVIDE ALL WORK AND MATERIAL IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ELECTRICAL SAFETY CODE, THE ONTARIO BUILDING CODE, APPLICABLE CSA STANDARDS, THE REQUIREMENTS OF THE ELECTRICAL SAFETY AUTHORITY AND ALL OTHER APPLICABLE MUNICIPAL AND PROVINCIAL CODES AND REGULATIONS. ANY MATERIALS, EQUIPMENT OR INSTALLATIONS NOT MEETING ALL REQUIREMENTS OF THE APPROPRIATE REGULATORY AGENCIES WILL NOT BE ACCEPTED. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE REQUIREMENTS ARE MET AND PROVIDE EVIDENCE OF SUCH AS REQUESTED.
- PROVIDE ALL GROUNDING INDICATED OR REQUIRED BY THE ELECTRICAL AUTHORITY. ALL GROUNDING FEEDERS AND BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE GROUND CONDUCTOR SIZED ACCORDING TO THE ONTARIO ELECTRICAL SAFETY CODE REGULATIONS. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE GROUND PATH, HOWEVER ALL CONDUITS SHALL BE SOLIDLY GROUNDING.
- IN GENERAL, ALL NECESSARY CUTTING AND PATCHING FOR THE ELECTRICAL WORK SHALL BE PROVIDED BY THE APPROPRIATE TRADE AT THE EXPENSE OF THE CONTRACTOR UNLESS INDICATED OTHERWISE ON THE DRAWINGS. HOLES THROUGH EXTERIOR WALLS AND ROOF ARE TO BE PROPERLY FLASHED AND MADE WEATHERPROOF. REPAIR ANY DAMAGE CAUSED BY THE ELECTRICAL TRADE TO EXISTING BUILDINGS OR EQUIPMENT, ETC., TO THE CONSULTANT'S SATISFACTION. IN GENERAL, PAINTING OF ELECTRICAL WORK AND PATCHES AS REQUIRED WILL BE PROVIDED BY THE ELECTRICAL TRADE.
- REPAIR ANY DAMAGE CAUSED BY THE ELECTRICAL TRADE TO EXISTING BUILDINGS OR EQUIPMENT, ETC., TO THE CONSULTANT'S SATISFACTION. UPON COMPLETION OF THE WORK, CLEAN ALL EQUIPMENT AND REMOVE FROM THE SITE ALL ELECTRICAL DEBRIS.
- PROVIDE LEGIBLE SIGNS AND BARRIERS ON OR AROUND ALL LIVE PANELS AND EQUIPMENT DURING CONSTRUCTION TO PREVENT INJURY OR SHOCK.
- PROVIDE ALL SLEEVES, INSERTS AND HANGERS REQUIRED FOR THE ELECTRICAL WORK. TREAT ALL SLEEVES OR HOLES PERFORMING ACOUSTICAL SEPARATIONS FOR INSTALLATIONS OF THIS DIVISION TO MAINTAIN ACOUSTICAL RATING. ALL GAPS SHALL BE PACKED WITH ACOUSTICAL INSULATION AND SEALED AT BOTH ENDS WITH ACOUSTICAL CAULKING. PATCH ALL OPENINGS AROUND INSTALLATIONS OF THIS DIVISION PERFORMING FIRE OR SMOKE SEPARATIONS WITH AN APPROVED INTERTIGHT SMOKE AND FIRE STOP SEALANT.
- PROVIDE ALL ACCESS DOORS REQUIRED FOR THE ELECTRICAL INSTALLATIONS AND ENSURE PROPER ACCESS DOOR SIZE, TYPE AND FIRE RATING.
- COORDINATE ALL WORK WITH OTHER TRADES AND SUPPLIERS/MANUFACTURERS TO AVOID INTERFERENCES AND CONFLICTS BETWEEN SERVICES. PLAN WORK WELL IN ADVANCE TO ELIMINATE INSTALLATION AND COORDINATE DIFFICULTIES. COOPERATE WITH OTHER TRADES ON SITE TO RESOLVE INTERFERENCES TO SATISFACTORILY COMPLETE THE PROJECT.
- SCHEDULE AND PHASE DEMOLITION AND NEW WORK TO REDUCE INTERFERENCE AND DOWNTIME OF EXISTING SYSTEMS. NOTIFY OWNERS REPRESENTATIVE OF ALL DOWNTIME PRIOR TO PROCEEDING WITH WORK.
- DO NOT SCALE DRAWINGS. OBTAIN ALL DIMENSIONS FROM EXISTING ARCHITECTURAL PLANS, SITE INSPECTIONS AND MANUFACTURERS' SHOP DRAWINGS.
- PRIOR TO INSTALLATION OF DEVICES WITHIN WALLS, VERIFY THAT NO INTERFERENCES EXIST. CONFIRM ON SITE WITH OWNER/DESIGNER THE EXACT DEVICE LOCATIONS AND ELEVATIONS.
- MAKE GOOD ALL BUILDING COMPONENTS DAMAGED BY WORK OF THIS TRADE.
- ALL MATERIALS AND WORKMANSHIP SHALL BE NEW, FREE OF DEFECTS, AND COMPLY WITH ALL APPLICABLE STANDARDS.
- CONTRACTORS SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF THE WORK BEFORE SUBMITTING PRICING. MAKE ALL ALLOWANCES FOR SITE CONDITIONS.
- FIRE STOP ALL WALL/FLOOR PENETRATIONS FROM BOTH SIDES (TYPICAL).

GENERAL DEMOLITION NOTES (APPLICABLE TO ALL DRAWINGS)

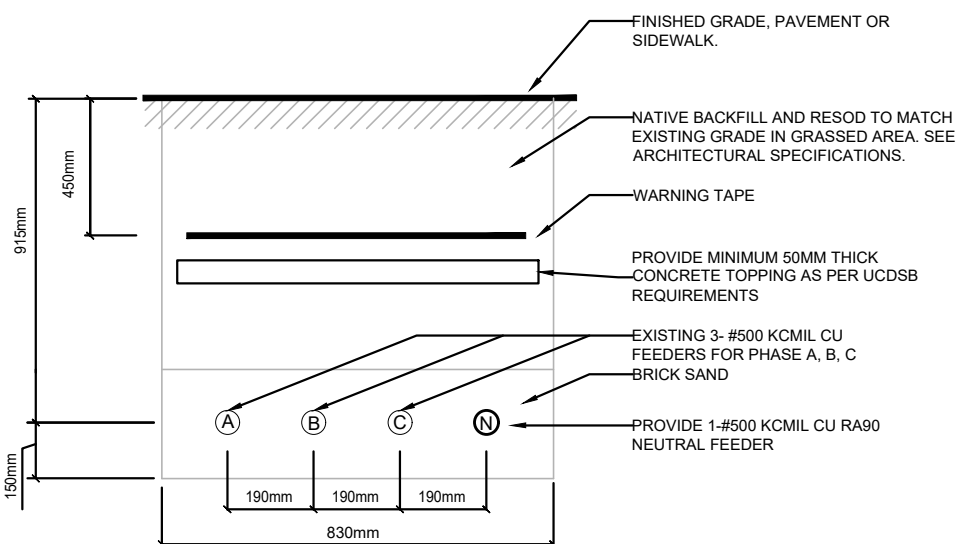
- ALL FIXTURES AND DEVICES ARE EXISTING TO REMAIN UNLESS IDENTIFIED OTHERWISE ON THE DRAWINGS, GENERAL NOTES OR SPECIFICATIONS.
- REMOVE ALL UNUSED, ABANDONED OR REDUNDANT WIRING BACK TO SOURCE.
- EXISTING EQUIPMENT AND DEVICES IN ROOM TO REMAIN UNLESS OTHERWISE NOTED.
- RELOCATE EXISTING FIXTURE/DEVICE AS SHOWN ON DRAWINGS. EXTEND CONDUIT AND WIRING AS REQUIRED. TRACE EXISTING CIRCUITS PRIOR TO DEMOLITION. CONSULT WITH OWNERS REPRESENTATIVE FOR ANY INTERRUPTIONS THIS MAY CAUSE DURING REMOVAL AND REINSTALLATION.
- COORDINATE WITH FACILITY MAINTENANCE DEPARTMENT FOR DISPOSAL OF REMOVED DEVICES. DISPOSE OF ALL UNWANTED DEVICES AS REQUIRED AS PER FACILITY STANDARDS.

LIGHTING DEMOLITION NOTES:

- IN AREAS BEING RENOVATED: REMOVE AND DISCARD, COMPLETE EXISTING LIGHTING SYSTEM ASSEMBLY (BALLAST, LAMPS, LAMP SOCKETS, BALLAST COVERS, ETC.) TO BE RETROFITTED. PROVIDE SAFE TERMINATION OF EXISTING CIRCUIT TO BE RE-USED FOR NEW INSTALLATION AS REQUIRED. COMPLETELY DISCONNECT AND REMOVE EXISTING BRANCH CIRCUITS NOT REQUIRED FOR NEW INSTALLATION BACK TO THE SOURCE PANEL AND MARK IT AS SPARE. PROVIDE PULLSTRING IN EMPTY CONDUIT.
- ELECTRICAL CONTRACTOR TO ALLOW FOR ALL COSTS TO REMOVE & DISPOSE OF ANY LUMINAIRES WITH PCB BALLASTS.
- ELECTRICAL EQUIPMENT TO BE REMOVED MUST BE ISOLATED AND DISCONNECTED AT THE SOURCE PRIOR TO REMOVAL OPERATIONS. DURING ISOLATION AND DISCONNECTION PROCEDURES DANGER TAGS MUST BE USED TO IDENTIFY ANY FEEDERS OR EQUIPMENT REMAINING ENERGIZED TO ACCOMMODATE NEW CONSTRUCTION.
- COORDINATE EXISTING LUMINAIRES REMOVAL AND REPLACEMENT WITH OTHER TRADES IF REQUIRED.
- PROTECT ALL INTERIOR AND EXTERIOR FINISHES: CEILINGS, WALLS, FLOORS, ETC. FROM DAMAGE DUE TO LIGHTING SYSTEM WORK.
- UNLESS OTHERWISE NOTED IN SPEC OR ON DRAWINGS, ALL EXISTING ELECTRICAL INSTALLATIONS (IE. SWITCHES, FIXTURES, OUTLETS, FIRE ALARM, SECURITY, COMMUNICATION ETC.) IN NON RENOVATED AREAS TO REMAIN AS PRESENTLY INSTALLED. MODIFY/EXTEND EXISTING CONTROL CIRCUITS AS REQUIRED TO MAINTAIN OPERATION.
- EXISTING FIXTURES THAT ARE TO REMAIN BE CLEANED. ALLOW FOR REPLACEMENT OF BROKEN LENSES, LAMPS OR BALLASTS.

## PARTIAL SITE PLAN- ELECTRICAL

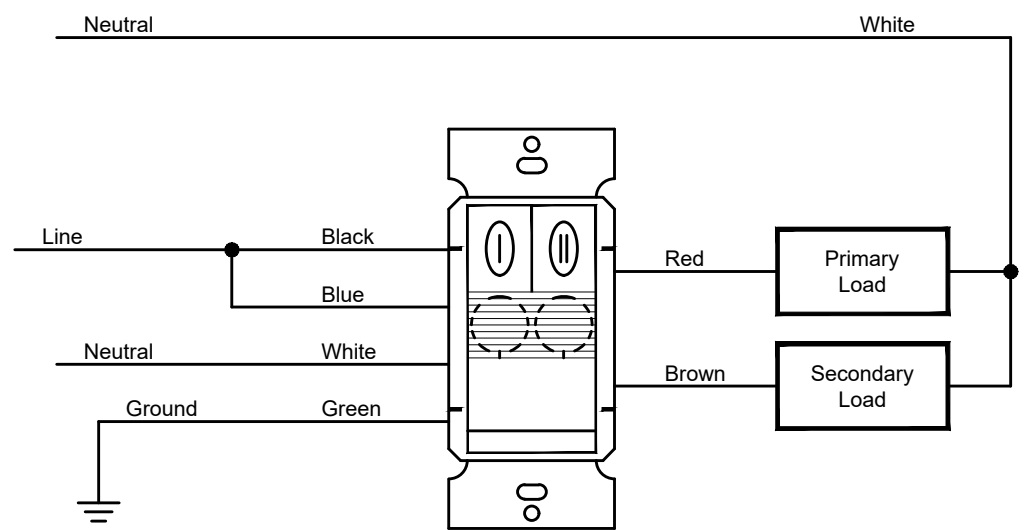
SCALE: 1:300



NOTES: INSTALL AS PER OESC DIAGRAM DR DETAIL, 1 AND TABLE D&A

### DETAIL #1 - SECONDARY FEEDER TRENCH DETAIL

SCALE: NTS



Single Switch  
For use with type 'DT' wall switches for bi-level lighting control (Watt Stopper DW-200)

### DETAIL #2 - OCCUPANCY SENSOR WIRING DIAGRAM

SCALE: NTS

**Callidus Engineering**  
We Make Buildings Work

**LONDON:** 1385 North Rutledge Park, Unit 9  
London, ON N6H 5N5 P 519.472.7640

**KINGSTON:** 1471 John Counter Blvd. Unit 301  
Kingston, ON K7M 6S8 P 613.900.0845

**KITCHENER:** 210-137 Glasgow Street, Office #141  
Kitchener, ON N2G 4X8 P 519.472.7640

W www.callidus.ca E info@callidus.ca

### REVISIONS

NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

**NORTH**

**PROFESSIONAL ENGINEER**  
ANDREW C. HALL  
17878406  
2023/04/19  
PROV. INCE. OF. ONT. A110

DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

### PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

### ADDRESS

300 STONE ST. N.  
GANANOQUE, ON

### PROJECT NO.

CE-5514

### DRAWING TITLE

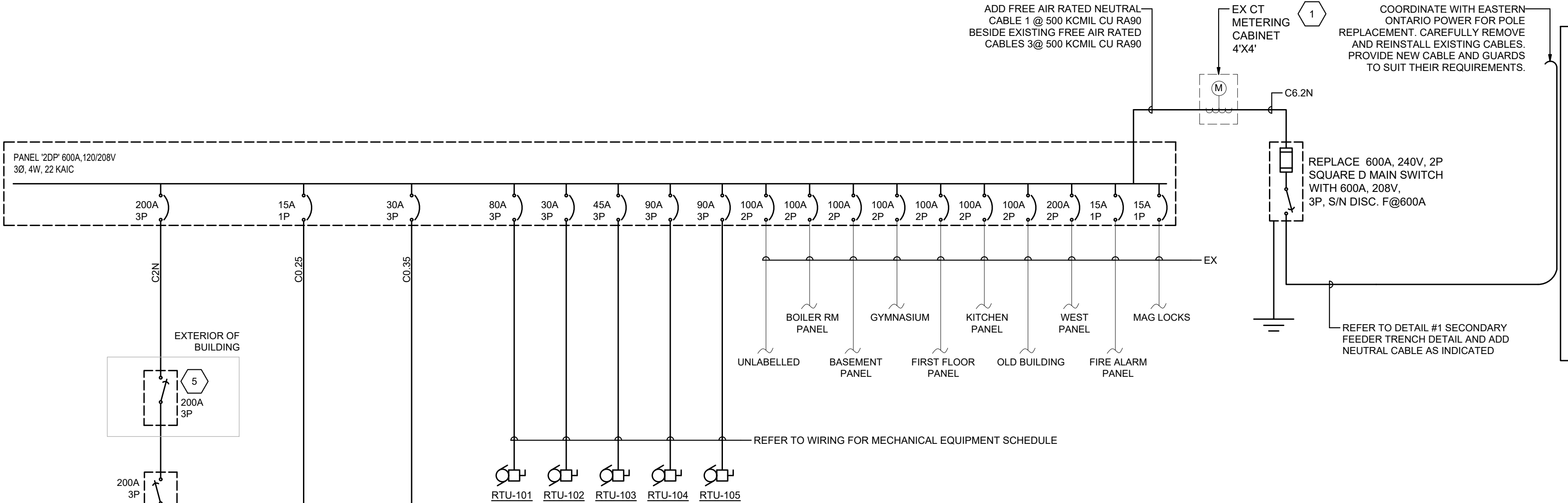
SITE PLAN- ELECTRICAL

### DRAWING NUMBER

E1 OF 11



ELECTRICAL FEEDER SCHEDULE		
ID	AMPACITY	FEEDER DESCRIPTION
C0.25	25A	3-#12 CU IN 3/4" C
C0.35	35A	3-#10 CU IN 3/4" C
C2N	200A	4-#3/0 CU IN 2" C
C6.2N	620A	2 RUNS OF 4-350KCMIL CU +BND IN 2 1/2" C



#### SINGLE STAGE FIRE ALARM SEQUENCE OF OPERATION:

1. THE SYSTEM SEQUENCE OF OPERATION SHALL PERFORM AS DESCRIBED BELOW:

- UPON ACTIVATION OF ANY ALARM INITIATING DEVICE (E.G. MANUAL STATION, SMOKE DETECTOR, HEAT DETECTOR, SPRINKLER FLOW DEVICE), SYSTEM SHALL OPERATE AS FOLLOWS:
  - ANNUNCIATE RESPECTIVE ZONE AT THE FIRE ALARM MAIN CONTROL AND REMOTE ANNUNCIATOR(S).
  - ACTIVATE ALL SIGNAL APPLIANCES IN THE ALARM MODE.
  - ACTIVATION OF ANCILLARY DEVICES (I.E. RELEASE ALL DOOR HOLD OPEN DEVICES AND DOOR OPERATORS IN FIRE SEPARATION).
  - PROVIDE FOR SILENCING SIGNAL MANUALLY BY AUTHORIZED PERSONNEL AT THE CONTROL PANEL AFTER 60 SECONDS OF OPERATION.
  - SIGNAL ALARM CONDITION TO SIGNAL TRANSMITTING UNIT FOR MONITORING AGENCY OR FIRE DEPARTMENT NOTIFICATION.
  - PROVIDE FOR "SILENT TEST", PREVENTING SIGNAL APPLIANCE OPERATION DURING MAINTENANCE OR SYSTEM TEST.
  - SOUND ALARM SIGNAL AGAIN AS OUTLINED HEREIN, IF A SUBSEQUENT ALARM FROM ANOTHER INITIATING CIRCUIT IS ACTIVATED.
  - THE FIRE ALARM CONTROL PANEL SHALL RECORD THE INCIDENT.

- ACTIVATION OF THE FOLLOWING SPECIFIED DETECTOR(S) SHALL OPERATE AS PER SECTION 1.1 ABOVE AND AS FOLLOWS:
  - SMOKE DETECTOR IN ELEVATOR LOBBY ON ANY BUT RECALL FLOOR TO SIGNAL ELEVATOR CONTROLLER TO RETURN ELEVATOR TO THE RECALL LEVEL.
  - SMOKE DETECTOR IN ELEVATOR SHAFT TO SIGNAL ELEVATOR CONTROLLER TO RETURN TO THE RECALL LEVEL.
  - SMOKE DETECTOR IN ELEVATOR LOBBY ON RECALL LEVEL WHEN NOT SPRINKLERED TO SIGNAL ELEVATOR CONTROLLER TO RETURN TO ELEVATOR TO THE ALTERNATE RECALL LEVEL.

## PARTIAL SINGLE LINE DIAGRAM

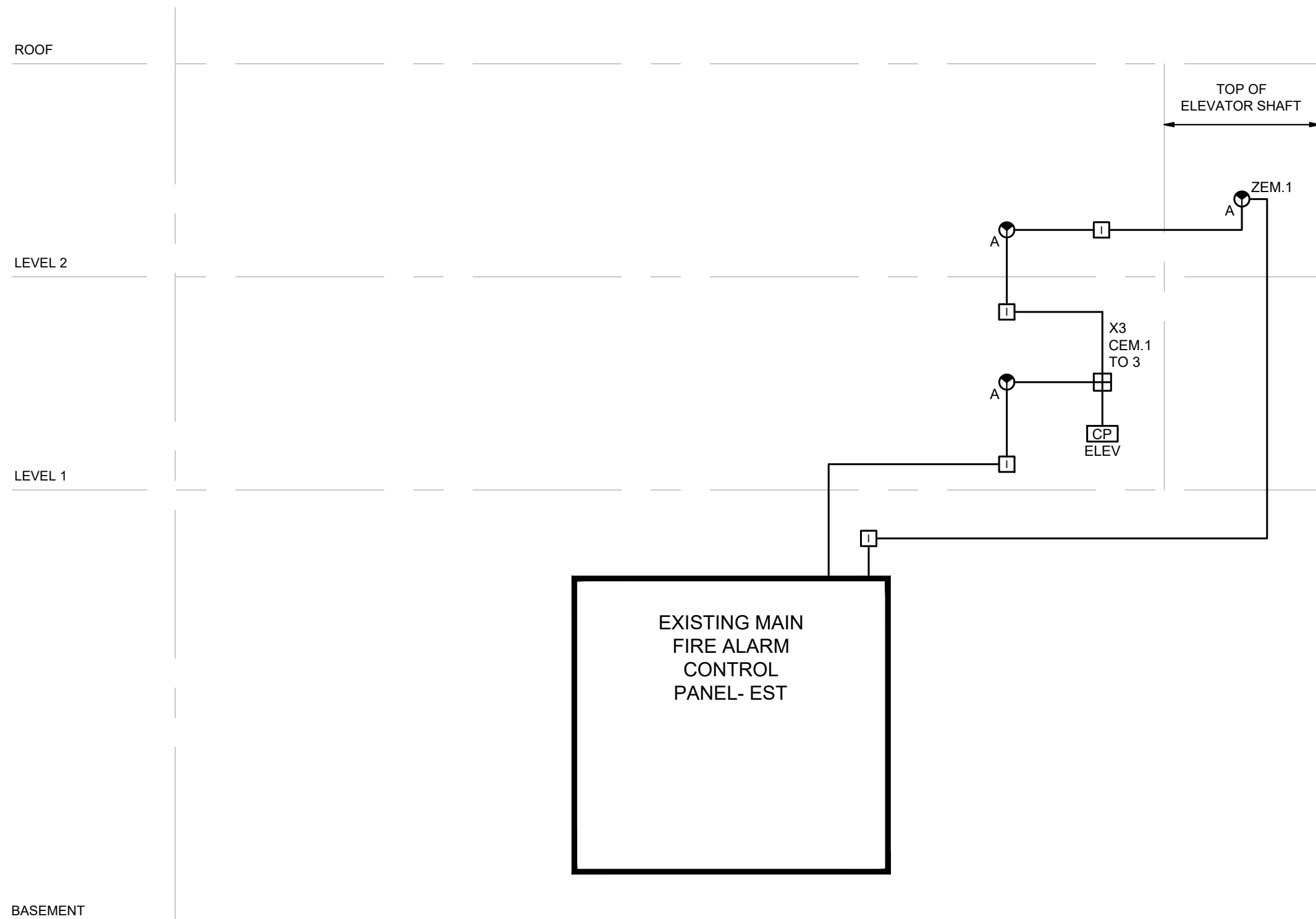
SCALE: N.T.S.

#### NOTES:

- CONFIRM OVER CURRENT PROTECTION WITH EQUIPMENT MANUFACTURER PRIOR TO FINAL INSTALLATION.
- INCREASE CABLE SIZE FOR MAX 3% VOLTAGE DROP.
- BALANCE LOADS TO A MAX OF 10% DIFFERENCE BETWEEN ALL 3 PHASES.
- GROUNDING AND BONDING TO COMPLY WITH OESC SECTION 10.

#### DRAWING NOTES (INDICATED WITH HEXAGONS):

- PROVIDE REVISIONS TO EXISTING METER AS REQUIRED BY UTILITY TO ACCOMMODATE SOLAR INFRASTRUCTURE. METER TO BE OF THE BI-DIRECTIONAL TYPE.
- PROVIDE ELEVATOR FUSIBLE DISCONNECT D-ELV1. DISCONNECT SWITCH TO BE COMPLETE WITH AUXILIARY CONTACT THAT IS POSITIVELY OPENED MECHANICALLY FOR ELEVATOR CONTROLLER. REFER TO ELEVATOR SHOP DRAWING FOR ADDITIONAL INFORMATION AND EXACT REQUIREMENT ON POWER WIRING/CONNECTION OF ELEVATOR 1 AND PROVIDE ACCORDINGLY FOR A FULLY OPERATIONAL SYSTEM
- PROVIDE 30A, 1P, 120V FUSED DISCONNECT SWITCH D-CAB FOR ELEVATOR 1 LIGHTING. DISCONNECT SWITCH SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING INSTALLATION BY SOLAR CONTRACTOR TO PROVIDE COMPLETE 48 KW +/- DC SOLAR PV ARRAY (NET-METERED). SOLAR CONTRACTOR TO PROVIDE ALL COORDINATION WITH LOCAL ELECTRICAL AUTHORITY. CONFIRM EXACT REQUIREMENTS WITH FINAL SOLAR CONSULTANT FOR ALL REQUIREMENTS FOR ARRAY (TRANSMITTER, INVERTERS, PV PANELS, FINAL DESIGN, ETC.) PRIOR TO ROUGH IN AND PROVIDE AS REQUIRED.
- PROVIDE 200A, NON-FUSED, VISIBLE BREAK C/W WINDOW DISCONNECT ON EXTERIOR OF BUILDING FOR EASTERN ONTARIO POWER. CONFIRM EXACT REQUIREMENTS AND LOCATION WITH UTILITY AND SOLAR PANEL INSTALLER PRIOR TO ROUGH IN AND PROVIDE AS REQUIRED.



## PARTIAL FIRE ALARM RISER

SCALE: N.T.S.

#### FIRE ALARM NOTES:

- CONNECT NEW ELEVATOR SHAFT AND LOBBY SMOKE DETECTORS TO NEW ADDRESSABLE LOOP FROM EXISTING PANEL.
- CONNECT NEW CONTROL MODULES TO NEW ELEVATOR CONTROL PANEL TO SIGNAL ELEVATOR RECALL AS DESCRIBED IN SEQUENCE OF OPERATION.
- REVISE EXISTING ANNUNCIATOR AND PASSIVE GRAPHIC TO INDICATE NEW ELEVATOR SHAFT ZONE.
- REMOVE AND RELOCATE EXISTING DETECTORS AS INDICATED ON FLOOR PLANS. REROUTE OR REPLACE WIRING AS NECESSARY.

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE																	
LABEL	DESCRIPTION	LOCATION	VOLT	PH	HP	WATTS	MCA	ISO. SW.	P	POWER WIRING	CTRL BY ELEC	SOURCE PNL	DISC AMP	FUSE	BRK	P	REMARKS
RTU-101	ROOFTOP UNIT	ROOF	208	3	-	-	67.3	-	3	3C-#1 CU +GND IN 1-1/2"C	-	2DP	-	-	80	3	NOTE 3
RTU-102	ROOFTOP UNIT	ROOF	208	3	-	-	20	-	3	3C-#8 CU +GND IN 1"C	-	2DP	-	-	30	3	NOTE 3
RTU-103	ROOFTOP UNIT	ROOF	208	3	-	-	33.4	-	3	3C-#6 CU +GND IN 1"C	-	2DP	-	-	45	3	NOTE 3
RTU-104	ROOFTOP UNIT	ROOF	208	3	-	-	69.5	-	3	3C-#6 CU +GND IN 1"C	-	2DP	-	-	90	3	NOTE 3
RTU-105	ROOFTOP UNIT	ROOF	208	3	-	-	69.3	-	3	3C-#4 CU +GND IN 1-1/4"C	-	2DP	-	-	90	3	NOTE 3
EF-101	EXHAUST FAN	RM 141	120	1	0.15	-	-	15A,NF	1	2C-#12 CU +GND IN 3/4"C	-	P9	-	-	15	1	-
EF-101	EXHAUST FAN	RM 129B	120	1	FHP	-	-	15A,NF	1	2C-#12 CU +GND IN 3/4"C	-	P9	-	-	15	1	-
ABBREVIATIONS:									NOTES:  1. INSTALL ALL WIRING IN CONDUIT WITH SHORT LENGTH LIQUID TIGHT FLEX TO MOTOR OR VIBRATING EQUIPMENT. 2. WIRE THROUGH TC OR RAT SUPPLIED BY MECHANICAL TRADE. 3. UNIT COMES COMPLETE WITH BUILT IN DISCONNECT SWITCH AND 15A MAINTENANCE RECEPTACLE. PROVIDE CONNECTIONS AS REQUIRED.								
CONT	-	CONTACTOR, SIZE AS INDICATED	OS	-	OCCUPANCY SENSOR												
COMB	-	COMBINATION DISCONNECT & STARTER	RAT	-	REVERSE ACTING THERMOSTAT												
FVNR	-	FULL VOLTAGE NON REVERSING STARTER	R	-	RELAY												
HOA	-	HAND OFF AUTO SWITCH C/W ON PILOT LIGHT	RFB	-	REMOTE PUSH BUTTON OFF												
MAN	-	MANUAL MOTOR SWITCH C/W PILOT LIGHT	SW	-	LIGHT SWITCH												
			TC	-	7 DAY PROGRAMMABLE TIMECLOCK												
			TS	-	TIMER SWITCH												
			WP	-	WEATHER PROOF												

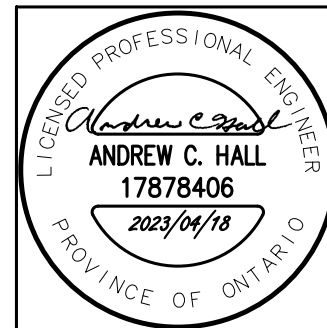
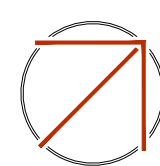
FIRE ALARM SCHEDULE		
ZONE/POINT #	CIRCUIT TYPE #	DESCRIPTION
ZEM.1	DA1	ELEV. SHAFT SMOKE
CEM.1	DA1	SMOKE IN ELEV. SHAFT RECALL SIGNAL
CEM.2	DA1	2ND FLOOR SMOKE IN ELEV. LOBBY SIGNAL RECALL
CEM.3	DA1	SMOKE IN 1ST FLOOR ELEV. LOBBY ALT LEVEL RECALL SIGNAL
ZONE/POINT TYPES (AREA# ZONE/POINTS) Z#=# ALARM ZONE S#=# SUPERVISORY ZONE A#=# AUDIBLE SIGNAL ZONE V#=# VISUAL SIGNAL ZONE F#=# FIRE FIGHTER PHONE C#=# CONTROL POINT X#=# AUXILIARY SIGNAL/CONTROL POINT		
CIRCUIT TYPES NC= SIGNAL CONTACT DA#= DATA COM. LINK STYLE A/C LOOP DB#= DATA COM. LINK STYLE B MA= ZONE INITIATION CIRCUIT CLASS A MB= ZONE INITIATION CIRCUIT CLASS B NA= SIGNAL CIRCUIT CLASS A LOOP NB= SIGNAL CIRCUIT CLASS B PA#= LV POWER CIRCUIT CLASS A PB#= LV POWER CIRCUIT CLASS B		

INTERIOR LIGHTING FIXTURE SCHEDULE				
FIXTURE TAG	DESCRIPTION AND MODEL SERIES	INPUT	LIGHT SOURCE	MOUNTING
AA	SURFACE MOUNTED LED FIXTURE. PHILIPS DAYBRITE OWN SERIES C/W 2 LED TUBES PHILIPS MODEL 1278 OR APPROVED EQUAL WITH DLC LISTING. FIXTURE TO BE SECURED TO T-BAR USING CADDY CLAMP 4G SERIES TO LIMIT GAP BETWEEN FIXTURE AND T-BAR. CONTRACTOR TO PROVIDE A MOCK-UP INSTALLATION OF FIXTURE AND GET PM APPROVAL TO PROCEED IF FIXTURE INSTALLATION IS STRAIGHT AND FLUSH.	120V 12.0W / LAMP	2 @ T8 LED 1800L / LAMP 4000K	SURFACE MOUNTED
BA	SURFACE MOUNTED LED FIXTURE. PHILIPS DAYBRITE OWW SERIES C/W 4 LED TUBES PHILIPS MODEL 1278 OR APPROVED EQUAL WITH DLC LISTING. FIXTURE TO BE SECURED TO T-BAR USING CADDY CLAMP 4G SERIES TO LIMIT GAP BETWEEN FIXTURE AND T-BAR. CONTRACTOR TO PROVIDE A MOCK-UP INSTALLATION OF FIXTURE AND GET PM APPROVAL TO PROCEED IF FIXTURE INSTALLATION IS STRAIGHT AND FLUSH.	120V 12.0W / LAMP	4 @ T8 LED 1800L / LAMP 4000K	SURFACE MOUNTED
CA	2" LOW PROFILE ENCLOSED AND GASKETED LED FIXTURE C/W WET LOCATION RATING, CLEAR LENS AND WIDE DISTRIBUTION. LITHONIA LIGHTING: FEM LIGHTING	120V 19.9W	LED 3291L 4000K 80 CRI	SURFACE WALL MOUNTED
NOTES: <ul style="list-style-type: none"><li>PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.</li><li>COORDINATE WITH ARCHITECTURAL CEILING PLAN TO CONFIRM CEILING MATERIAL AND MOUNTING TYPE.</li><li>COORDINATE FINAL FIXTURE SELECTION WITH ARCHITECT AND OWNER PRIOR TO ORDERING.</li></ul>				

#### REVISIONS

NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

#### NORTH



DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

#### PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

#### ADDRESS

300 STONE ST. N.  
GANANOTOE, ON

#### PROJECT NO.

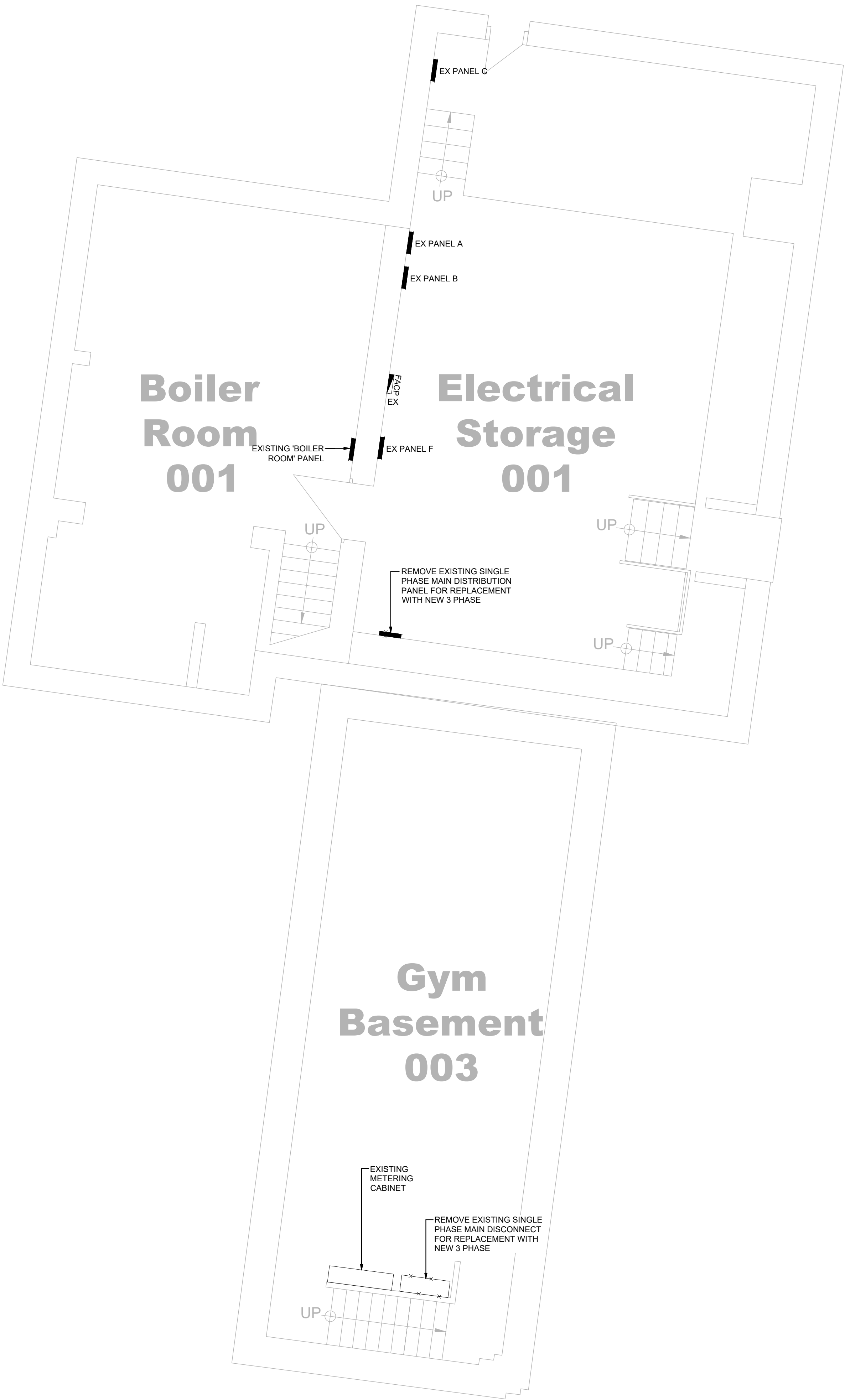
CE-5514

#### DRAWING TITLE

SINGLE LINE DIAGRAM &  
SCHEDULES- ELECTRICAL

#### DRAWING NUMBER

E2 OF 11



PARTIAL BASEMENT- DEMO  
SCALE: 1:50



**Callidus Engineering**  
We Make Buildings Work

LONDON: 1385 North Rutledge Park, Unit 9  
London, ON N6H 5N5 P 519.472.7640

KINGSTON: 1471 John Counter Blvd, Unit 301  
Kingston, ON K7M 8S8 P 613.900.0845

KITCHENER: 210-137 Glasgow Street, Office #141  
Kitchener, ON N2G 4X8 P 519.472.7640

W [www.callidus.ca](http://www.callidus.ca)

E [info@callidus.ca](mailto:info@callidus.ca)

REVISIONS		
NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

**NORTH**





DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

ADDRESS

300 STONE ST. N.  
GANANOQUE, ON

PROJECT NO.

CE-5514

DRAWING TITLE

PARTIAL BASEMENT- DEMO

DRAWING NUMBER

E3 OF 11





PARTIAL GROUND FLOOR PLAN - DEMO

SCALE: 1:125

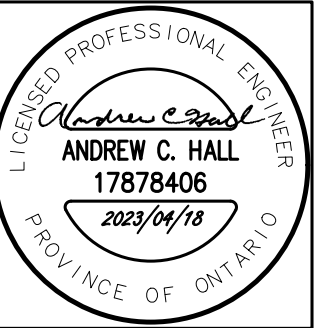
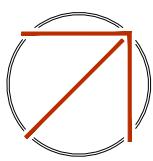
DEMOLITION NOTES:

- D1. COORDINATE WITH ARCHITECTURAL PLANS FOR CEILINGS BEING REMOVED AND REINSTALLED TO FACILITATE NEW DUCTWORK. COORDINATE WITH MECHANICAL TRADE AND RELOCATE CONDUITS AND WIRING IN CEILING SPACE TO FACILITATE NEW DUCTWORK INSTALLATION.
- D2. CONFIRM PROPER OPERATION THEN CAREFULLY DISCONNECT AND TEMPORARILY REMOVE AND SECURELY STORE CEILING MOUNTED PA SPEAKERS, CCTV CAMERAS AND WIRELESS ANTENNAE INDICATED TO FACILITATE TEMPORARY CEILING REMOVAL, NEW DUCTWORK INSTALLATION AND REINSTALLATION OF CEILINGS.
- D3. TEMPORARILY DISCONNECT, REMOVE AND SECURELY STORE EXISTING CEILING MOUNTED FIRE ALARM DEVICES INDICATED FOR RELOCATION TO FACILITATE TEMPORARY CEILING REMOVALS AND NEW DUCTWORK INSTALLATION. REMOVE FIRE ALARM DEVICES INDICATED FOR REMOVAL.
- D4. REMOVE LIGHT FIXTURES INDICATED FOR REPLACEMENT. CAREFULLY REMOVE AND SECURELY STORE LIGHT FIXTURES OR CONTROLS INDICATED FOR RELOCATION TO FACILITATE TEMPORARY CEILING REMOVALS, NEW DUCTWORK INSTALLATION AND CEILING REINSTALLATION.

REVISIONS

NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

NORTH



DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

ADDRESS

300 STONE ST. N.  
GANANOQUE, ON

PROJECT NO.

CE-5514

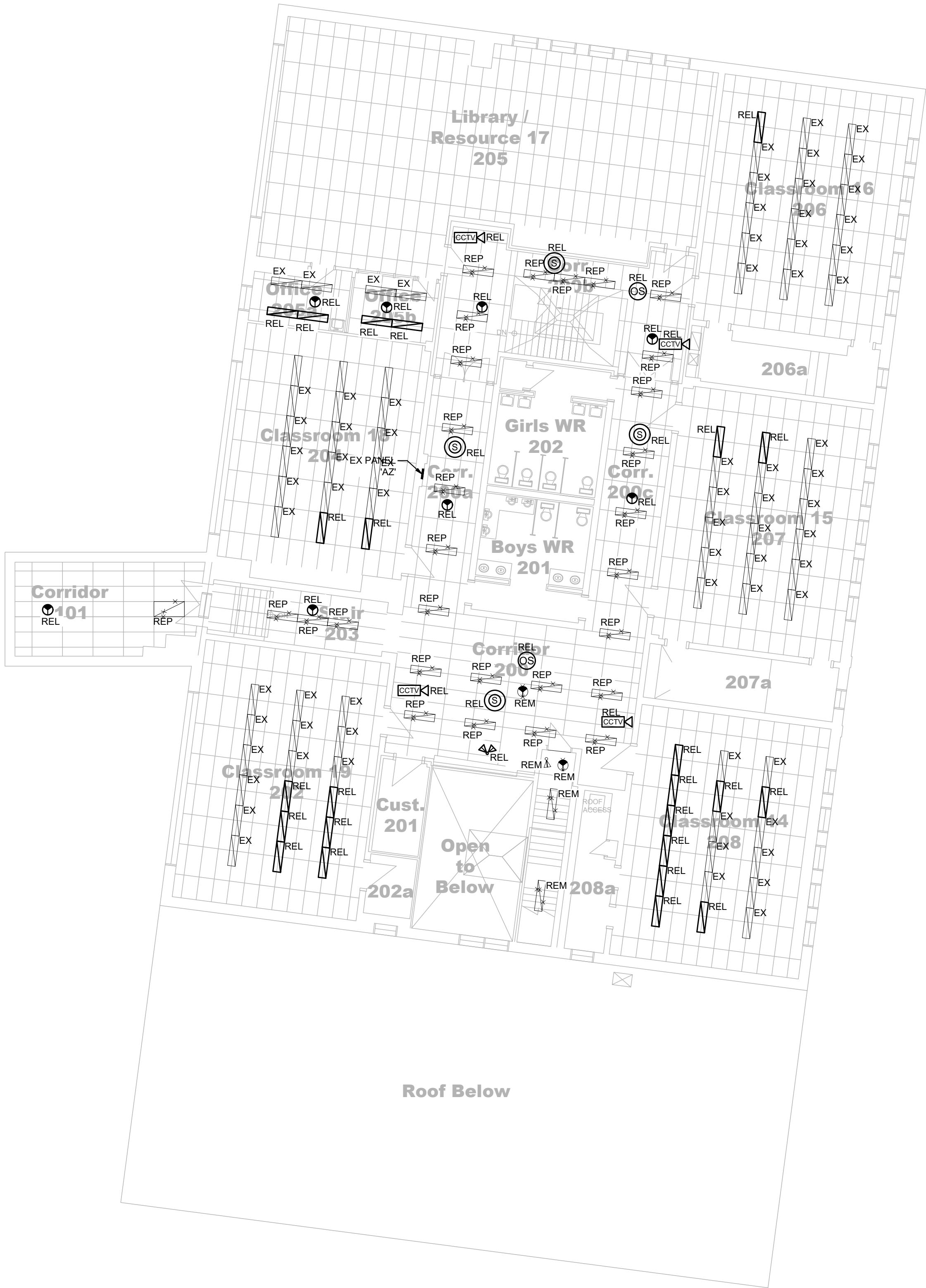
DRAWING TITLE

PARTIAL GROUND FLOOR-  
DEMO

DRAWING NUMBER

E4 OF 11





PARTIAL SECOND FLOOR PLAN - DEMO

SCALE: 1:125

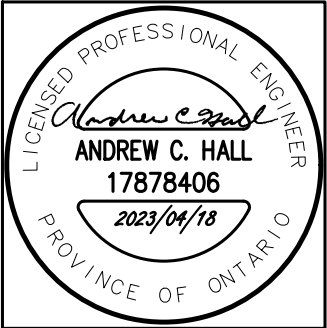
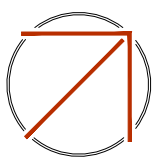
DEMOLITION NOTES:

- D1. COORDINATE WITH ARCHITECTURAL PLANS FOR CEILINGS BEING REMOVED AND REINSTALLED TO FACILITATE NEW DUCTWORK. COORDINATE WITH MECHANICAL TRADE AND RELOCATE CONDUITS AND WIRING IN CEILING SPACE TO FACILITATE NEW DUCTWORK INSTALLATION.
- D2. CONFIRM PROPER OPERATION THEN CAREFULLY DISCONNECT AND TEMPORARILY REMOVE AND SECURELY STORE CEILING MOUNTED PA SPEAKERS, CCTV CAMERAS AND WIRELESS ANTENNAE INDICATED TO FACILITATE TEMPORARY CEILING REMOVAL, NEW DUCTWORK INSTALLATION AND REINSTALLATION OF CEILINGS.
- D3. TEMPORARILY DISCONNECT, REMOVE AND SECURELY STORE EXISTING CEILING MOUNTED FIRE ALARM DEVICES INDICATED FOR RELOCATION TO FACILITATE TEMPORARY CEILING REMOVALS AND NEW DUCTWORK INSTALLATION. REMOVE FIRE ALARM DEVICES INDICATED FOR REMOVAL.
- D4. REMOVE LIGHT FIXTURES INDICATED FOR REPLACEMENT. CAREFULLY REMOVE AND SECURELY STORE LIGHT FIXTURES OR CONTROLS INDICATED FOR RELOCATION TO FACILITATE TEMPORARY CEILING REMOVALS, NEW DUCTWORK INSTALLATION AND CEILING REINSTALLATION.

REVISIONS

NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

NORTH



DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

ADDRESS

300 STONE ST. N.  
GANANOQUE, ON

PROJECT NO.

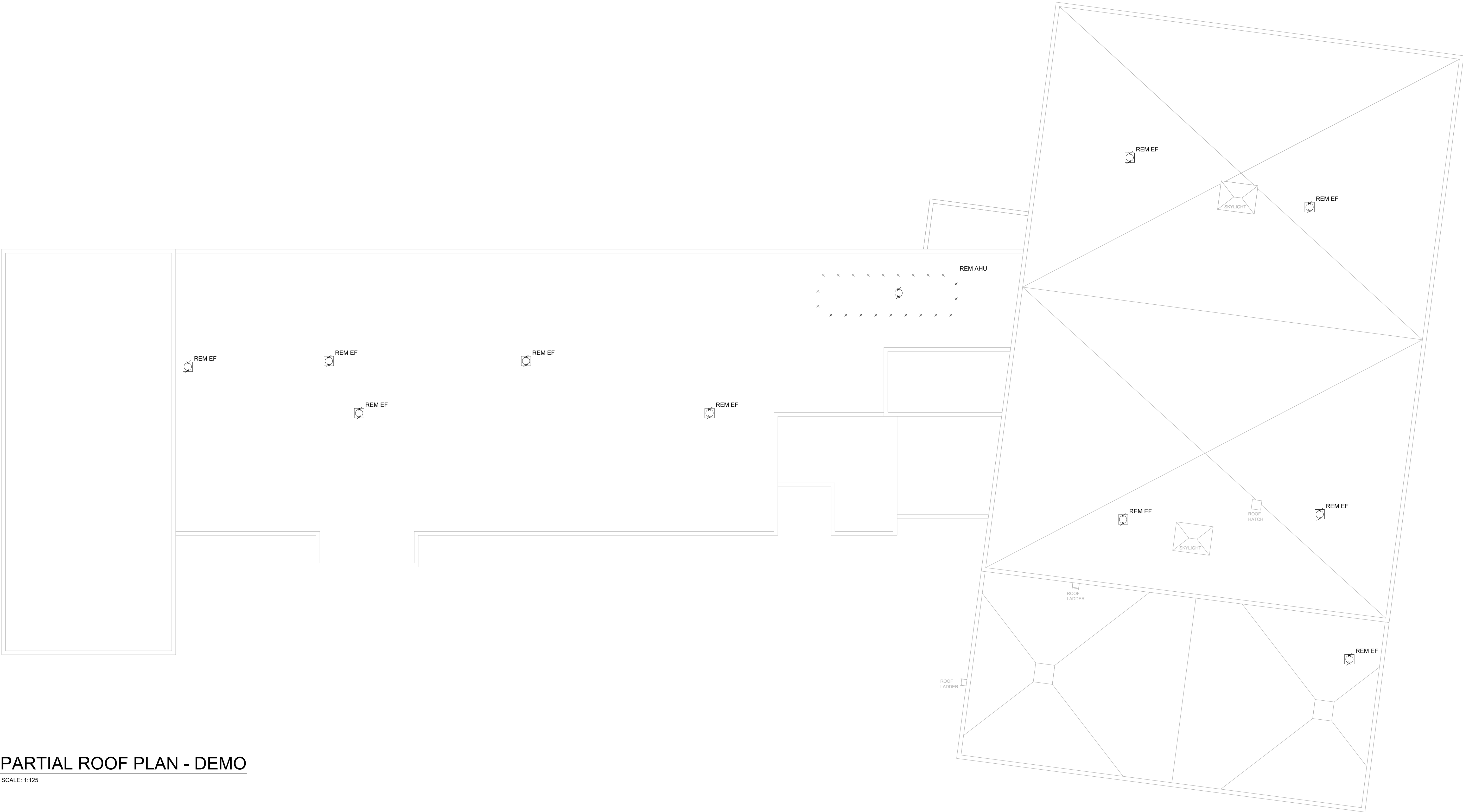
CE-5514

DRAWING TITLE

PARTIAL SECOND FLOOR-  
DEMO


DRAWING NUMBER

E5 OF 11



PARTIAL ROOF PLAN - DEMO

SCALE: 1:125



Callidus

Engineering

We Make Buildings Work

LONDON:

1385 North Routledge Park, Unit 9  
London, ON N6H 5N5 P 519.472.7640

KINGSTON:

1471 John Counter Blvd, Unit 301  
Kingston, ON K7M 8S8 P 613.900.0845

KITCHENER:

210-137 Glasgow Street, Office #141  
Kitchener, ON N2G 4X8 P 519.472.7640

W

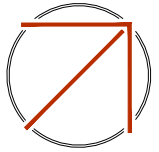
www.callidus.ca

E

info@callidus.ca

REVISIONS		
NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

NORTH



LICENSED PROFESSIONAL ENGINEER

  
ANDREW C. HALL  
17878406  
2023/04/18

PROVINCE OF ONTARIO

DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

ADDRESS

300 STONE ST. N.  
GANANOQUE, ON

PROJECT NO.

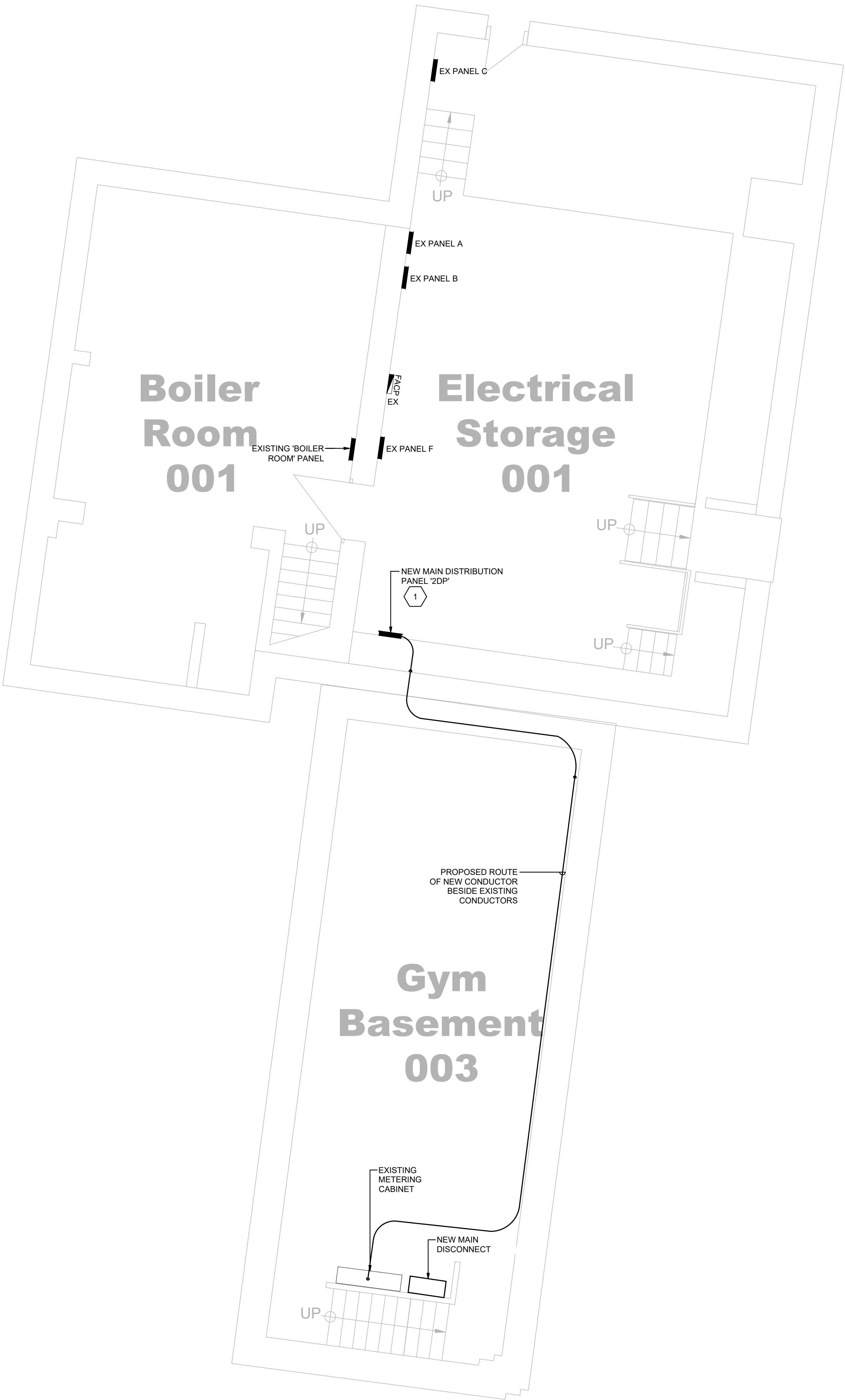
CE-5514

DRAWING TITLE

PARTIAL ROOF PLAN- DEMO

DRAWING NUMBER

E6 OF 11



PARTIAL BASEMENT- PROPOSED

SCALE: 1:50

DRAWING NOTES (INDICATED WITH HEXAGONS):

1. EXISTING BREAKERS TO BE REUSED IF COMPATIBLE WITH NEW DISTRIBUTION PANEL AND REQUIRED KAIC RATING.



**Callidus Engineering**  
We Make Buildings Work

**LONDON:** 1385 North Rutledge Park, Unit 9  
London, ON N6H 5N5 P 519.472.7640

**KINGSTON:** 1471 John Counter Blvd, Unit 301  
Kingston, ON K7M 8S8 P 613.900.0845

**KITCHENER:** 210-137 Glasgow Street, Office #141  
Kitchener, ON N2G 4X8 P 519.472.7640

W [www.callidus.ca](http://www.callidus.ca) E [info@callidus.ca](mailto:info@callidus.ca)

REVISIONS		
NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

**NORTH**





DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

**PROJECT**

UCDSB LINKLATER PS  
2023 UPGRADES

**ADDRESS**

300 STONE ST. N.  
GANANOQUE, ON

**PROJECT NO.**

CE-5514

**DRAWING TITLE**

PARTIAL BASEMENT-  
PROPOSED

**DRAWING NUMBER**

E7 OF 11





PARTIAL GROUND FLOOR PLAN - PROPOSED

SCALE: 1:125

GENERAL CONSTRUCTION NOTES:

- COORDINATE REINSTALLATION OF CONDUIT AND WIRING WITH NEW DUCTWORK TO MAINTAIN ANY REQUIRED ACCESS TO JUNCTION OR PULL POINTS.
- REINSTALL CEILING MOUNTED PA SPEAKERS, CCTV CAMERAS AND WIRELESS ANTENNAE WIRING AND DEVICES AND TEST TO CONFIRM PROPER OPERATION.
- REINSTALL CEILING MOUNTED FIRE ALARM DEVICES AND RE-VERIFY TO CONFIRM PROPER OPERATION. PROVIDE NEW FIRE ALARM DEVICES INDICATED AND REFER TO FIRE ALARM PARTIAL RISER AND SCHEDULE FOR CONNECTIONS.
- REINSTALL LIGHTING FIXTURES OR CONTROLS INDICATED AND TEST FOR PROPER OPERATION. INSTALL NEW ROOM LIGHTING CONTROLS INDICATED AND TEST FOR OPERATION.

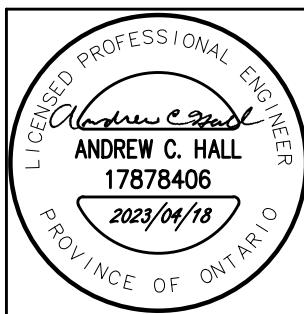
DRAWING NOTES (INDICATED WITH HEXAGONS):

- NEW BARRIER FREE DOOR OPERATOR, TIE INTO EXISTING BUILDING SECURITY SYSTEM. DURING SCHOOL HOURS THE EXTERIOR ACTUATOR IS TO BE DEACTIVATED AND THE OPERATOR ONLY ACTIVATED BY THE INTERIOR ACTUATOR OR BY SWITCH FROM THE MAIN OFFICE. THERE ARE EXISTING ELECTRIC STRIKES. REVIEW EXISTING CONDITIONS AND PROVIDE ALL ADDITIONAL DEVICES, ETC AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. TYPICAL.
- ELECTRIC STRIKE TO BE POWERED OFF OF OPERATOR. OPERATOR SUPPLIER TO SUPPLY APPROPRIATE RELAY / SWITCH. KEYSWITCH TO BE MOUNTED ON FRAME JAMB AND WIRED (BY OPERATOR INSTALLER) TO TURN OFF OUTSIDE ACTUATOR AT LOCK UP.
- MODE OF OPERATION - PUSHING INSIDE ACTUATOR MOMENTARILY OPENS ELECTRIC STRIKE AND BEGINS OPERATOR.
- CYCLE AT ALL TIMES - PUSHING OUTSIDE ACTUATOR BEGINS OPERATOR CYCLE AT ALL TIMES BUT DOES NOT OPERATE DOOR STRIKE. - ACTUATOR IS "TURNED OFF" BY KEYSWITCH AT LOCK-UP.
- CONFIRM EXACT LOCATIONS AND REQUIREMENTS WITH FINAL ELEVATOR INSTALLATION MANUAL AND PROVIDE AS REQUIRED.
- REUSE EXISTING LIGHTING CIRCUIT FROM ORIGINAL JANITORS ROOM. PROVIDE AND EXTEND ALL NEW WIRING AND CONDUIT AS REQUIRED.
- REPLACE EXISTING LIGHT SWITCH WITH OCCUPANCY DIMMER SENSOR SWITCH AS INDICATED. CONFIRM LOCATION ON SITE.
- PROVIDE NEW 15A, 120V FEED FROM EXISTING PANEL 'P9' LOCATED ON STAGE. PROVIDE NEW 15A, 1P BREAKER TO MATCH EXISTING PANEL REQUIREMENTS AND KAIC RAITING.
- PROVIDE NEW SEPARATE 20A, 120V FEED FROM EXISTING PANEL 'P9' LOCATED ON STAGE FOR ELEVATOR PIT GFCI AND ELEVATOR PIT LIGHTING. PROVIDE NEW 20A, 1P BREAKER FOR EACH CIRCUIT TO MATCH EXISTING PANEL REQUIREMENTS AND KAIC RAITING.
- PROVIDE NEW 15A, 120V FEED FROM EXISTING PANEL 'P9' LOCATED ON STAGE TO GF1 LOCATED IN SIDE CABINET. PROVIDE NEW 15A, 1P BREAKER TO MATCH EXISTING PANEL REQUIREMENTS AND KAIC RAITING.
- PROVIDE NEW 15A, 120V FEED FROM EXISTING PANEL 'S' LOCATED IN EAST WING CORRIDOR TO MAIN DOOR OPERATORS. PROVIDE NEW 15A, 1P BREAKER TO MATCH EXISTING PANEL REQUIREMENTS AND KAIC RAITING. REUSE EXISTING SPACE FROM REMOVED FANS.

REVISIONS

NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

NORTH



DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

ADDRESS

300 STONE ST. N.  
GANANOQUE, ON

PROJECT NO.

CE-5514

DRAWING TITLE

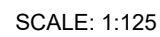
PARTIAL GROUND FLOOR-  
PROPOSED

DRAWING NUMBER

E8

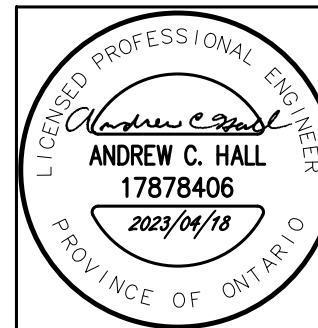
OF 11





GENERAL CONSTRUCTION NOTES:

- COORDINATE REINSTALLATION OF CONDUIT AND WIRING WITH NEW DUCTWORK TO MAINTAIN ANY REQUIRED ACCESS TO JUNCTION OR PULL POINTS.
- REINSTALL CEILING MOUNTED PA SPEAKERS, CCTV CAMERAS AND WIRELESS ANTENNAE WIRING AND DEVICES AND TEST TO CONFIRM PROPER OPERATION.
- REINSTALL CEILING MOUNTED FIRE ALARM DEVICES AND RE-VERIFY TO CONFIRM PROPER OPERATION. PROVIDE NEW FIRE ALARM DEVICES INDICATED AND REFER TO FIRE ALARM PARTIAL RISER AND SCHEDULE FOR CONNECTIONS.
- REINSTALL LIGHTING FIXTURES OR CONTROLS INDICATED AND TEST FOR PROPER OPERATION. INSTALL NEW ROOM LIGHTING CONTROLS LIGHTING AND TEST FOR OPERATION.



DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

## PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

## ADDRESS

300 STONE ST. N.  
GANANOQUE, ON

## PROJECT NO.

CE-5514

## DRAWING TITLE

PARTIAL SECOND FLOOR-  
PROPOSED

## DRAWING NUMBER

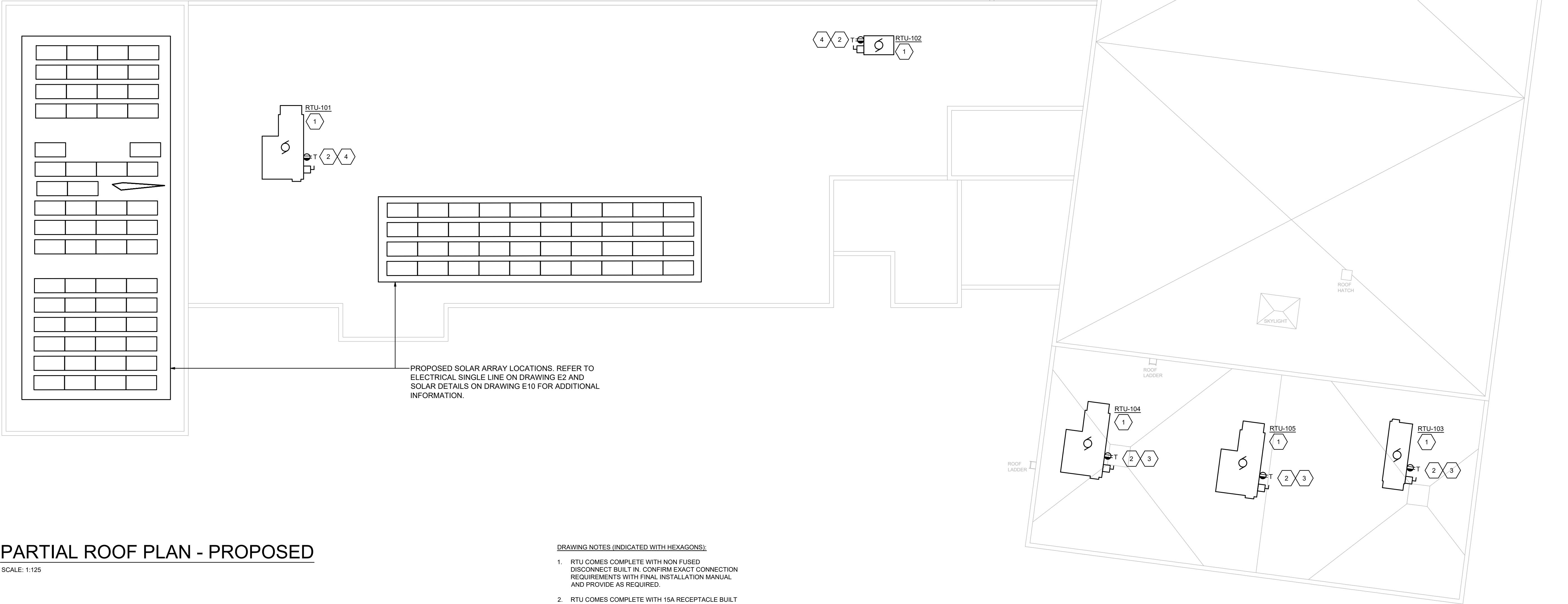
E9 OF 11

Module Specifications	
100 x Q,PEAK DUO XL-G10.3 480 OR EQUIVALENT	
STC Rating	480 W
Vmp	44.81 V
Imp	10.66 A
Voc	53.58 V
Isc	11.24 A

Inverter Specifications	
3 X Fronius — Symo Advanced 15.0-3 208-240 OR EQUIVALENT	
Max AC Power Rating	15kW
Max Input Voltage	1000 V
Min AC Power Rating	60 W
Min Input Voltage	325 V
Maximum Continuous Ouput Current (A)	41.6 A

SOLAR DETAILS- PROPOSED

SCALE: NTS



PARTIAL ROOF PLAN - PROPOSED

SCALE: 1:125

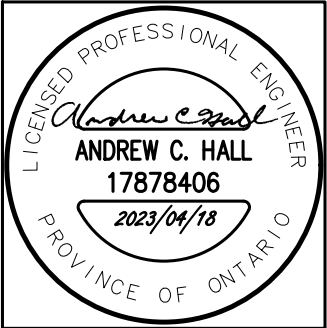
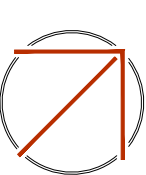
DRAWING NOTES (INDICATED WITH HEXAGONS):

1. RTU COMES COMPLETE WITH NON FUSED DISCONNECT BUILT IN. CONFIRM EXACT CONNECTION REQUIREMENTS WITH FINAL INSTALLATION MANUAL AND PROVIDE AS REQUIRED.
2. RTU COMES COMPLETE WITH 15A RECEPTACLE BUILT IN. REPLACE WITH 20A, 120V DUPLEX GFCI RECEPTACLE. CONFIRM EXACT CONNECTION REQUIREMENTS WITH FINAL INSTALLATION MANUAL AND PROVIDE AS REQUIRED.
3. PROVIDE NEW 20A, 120V FEED FROM EXISTING PANEL 'P9' LOCATED ON STAGE. PROVIDE NEW 20A, 1P BREAKER TO MATCH EXISTING PANEL REQUIREMENTS AND KAIC RAITING.
4. PROVIDE NEW 20A, 120V FEED FROM EXISTING PANEL '5' LOCATED ON IN EAST WING CORRIDOR. REUSE EXISTING PLACE FROM REMOVED FANS. PROVIDE NEW 20A, 1P BREAKER TO MATCH EXISTING PANEL REQUIREMENTS AND KAIC RAITING.

REVISIONS

NO.	ISSUED FOR	DATE
00	ISSUED FOR PERMIT/ TENDER	23.04.18

NORTH



DESIGN	KM	DRAWN	KM
CHECKED	ACH	REVIEWED	ACH

PROJECT

UCDSB LINKLATER PS  
2023 UPGRADES

ADDRESS

300 STONE ST. N.  
GANANOQUE, ON

PROJECT NO.

CE-5514

DRAWING TITLE

PARTIAL ROOF PLAN-  
PROPOSED

DRAWING NUMBER

E10 OF 11



