

[illegible]

1. IN AREAS WHERE EXISTING DEVICES ARE TO BE REMOVED, THE CONTRACTOR SHALL INSURE THAT ANY PORTION OF THE EXISTING SYSTEM IS LEFT TO REMAIN TO LEAVE A WORKING SYSTEM MAINTAINED.
2. ANY LOCATION OF EXISTING DEVICES TO BE REMOVED SHALL BE REMOVED. THE CONTRACTOR SHALL BE INSTALLED IF RELOCATED. THE ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING CONDUIT AND WIRE TO SITES.
3. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY FOR EXISTING SERVICES WHICH PASS THROUGH THE AREA BUT WHICH FEEDPOINTS NOT LOCATED IN THE RENOVATED AREA. REROUTE WHERE NECESSARY. REPAIR OR REPLACE EXISTING DEVICES AS REQUIRED.
4. EQUIPMENT BEING REMOVED SHALL BE REMOVED IN THE SITE WITH THE CAMPBELLVILLE HOSPITAL AND THEY SHALL BE DELIVERED TO A AREA IN THE HOSPITAL AS DIRECTED. EQUIPMENT THAT THE HOSPITAL DOES NOT WANT SHALL BE REMOVED FROM THE SITE AS SCRAP BY THIS DIVISION.
5. WHEN WORKING ON ANY ELECTRICAL CIRCUIT FOR LARGER THAN ANY POWER PANEL OR LIGHTING PANEL PROVIDE THE FOLLOWING:
  - SUITABLE LOCK-OFF DEVICES. PALOOK FOR FREE CIRCUIT ORS OR LOCK-OFF DEVICES FOR LIGHTING PANEL BREAKERS.
  - SUITABLE CLEAR WARNING SIGNS.
  - HANDWRITTEN INFORMATION STATE IDENTIFYING NAME OF CONTRACTOR, DATE, LOCATION OF WORK AND THE DATE OF COMPLETION OF THIS WORK. THIS IS A VISIBLE LOCATION AND REMOVE ONLY WHEN THE CIRCUIT IS RE-ENERGIZED.
6. WHERE EXISTING TELEPHONE CABINETS ARE IN WALLS THAT ARE TO BE DEMOLISHED BUT CONTACT WIRING THAT SERVE OTHER AREAS OF THE HOSPITAL, AN ALTERNATE ROUTING SHALL BE PROVIDED FOR CABLES. CONSULT WITH THE HOSPITAL FOR THE LOCATION OF THE CABLES.
7. ELECTRICAL EQUIPMENT OF DEVICES THAT ARE TO BE REMOVED, OR TO REMAIN SHALL BE PROTECTED SO THAT ARE NOT DAMAGED OR DISTURBED DURING DEMOLITION OF EXISTING WALLS.
8. MAINTAIN A TEMPORARY OPERABLE FIRE ALARM SYSTEM DURING CONSTRUCTION.

ELECTRICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
LIGHTING		POWER SINGLE LINE	
	CEILING MOUNTED LUMINAIRE. TYPE AS NOTED.		DRAW OUT HIGH VOLTAGE (44kV) VACUUM CIRCUIT BREAKER.
	CEILING MOUNTED LUMINAIRE. TYPE AS NOTED.		FIX MOUNTED LOW VOLTAGE MOLDED CASE CIRCUIT BREAKER.
	LUMINAIRE CONNECTED TO EMERGENCY OR UPS POWER. TYPE AS NOTED. RED INDICATES EMERGENCY AND BLUE INDICATES UPS.		DRAW OUT LOW VOLTAGE MOTORIZED AIR CIRCUIT BREAKER.
	STRIPLIGHT OR COVE LIGHT. TYPE AS NOTED.		FUSIBLE BUS DUCT PLUG-IN SWITCH.
	STRIPLIGHT OR COVE LIGHT CONNECTED TO EMERGENCY OR UPS POWER. TYPE AS NOTED. RED INDICATES EMERGENCY AND BLUE INDICATES UPS.		DRAW-OUT LOW VOLTAGE POWER CIRCUIT BREAKER WITH CURRENT LIMITING FUSE.
	WALL MOUNTED LUMINAIRE. TYPE AS NOTED.		DISTRIBUTION TRANSFORMER. (HMT DENOTES HARMONIC MITIGATION / CANCELATION TRANSFORMER)
	WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY OR UPS POWER. TYPE AS NOTED. RED INDICATES EMERGENCY AND BLUE INDICATES UPS.		POTENTIAL TRANSFORMER.
	CEILING MOUNTED LUMINAIRE. TYPE AS NOTED.		CURRENT TRANSFORMER.
	WALL MOUNTED LUMINAIRE. TYPE AS NOTED.		FUSE.
	CEILING MOUNTED PENDANT LUMINAIRE. TYPE AS NOTED.		POWER TRANSFORMER.
	CEILING MOUNTED TRACK COMPLETE WITH LUMINAIRES. TYPE AS NOTED.		GENERATOR.
	EMERGENCY BATTERY UNIT COMPLETE WITH ADJACENT 25A, 120V DUPLEX RECEPTACLE AND INTEGRAL HEADS WHERE SHOWN.		TRANSIENT VOLTAGE SURGE SUPPRESSOR.
	EMERGENCY BATTERY UNIT COMPLETE WITH ADJACENT 25A, 120V DUPLEX RECEPTACLE WITHOUT LIGHTS.		DIGITAL METERING UNIT.
	SURFACE MOUNTED REMOTE BATTERY DOUBLE HEAD LIGHT.		INTEGRAL SURGE PROTECTIVE DEVICE.
	SURFACE MOUNTED REMOTE BATTERY SINGLE HEAD LIGHT.		VARIABLE FREQUENCY DRIVE.
	RECESSED CEILING MOUNTED REMOTE BATTERY SINGLE HEAD LIGHT.		GROUND CONNECTION.
	CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW AS INDICATED.		SHUNT TRIP OPERATION OF BREAKER AS INDICATED.
	WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW AS INDICATED.		METERING DEVICE.
	PROVIDE TWO SEPARATE EXIT LIGHTS FOR EXIT LIGHTS SHOWN WITH TWO DIRECTIONAL ARROWS.		KIRK KEY INTERLOCK.
	120V SINGLE POLE SWITCH.		LOAD INTERRUPTING SWITCH.
	KEY OPERATED SWITCH.		MOTOR, "M" DENOTES MOTOR RATING.
	10V VOLTAGE DIMMER. "X" DENOTES NUMBER OF BUTTONS.		CLOSED TRANSITION AUTOMATIC TRANSFER SWITCH WITH DOUBLE MAINTENANCE BYPASS.
	10V VOLTAGE SWITCH. EACH BUTTON TO HAVE AN ON AND OFF FUNCTION.		AUTOMATIC TRANSFER SWITCH.
	10V VOLTAGE SWITCH. "X" DENOTES NUMBER OF BUTTONS. EACH BUTTON TO HAVE AN ON AND OFF FUNCTION.		
	3 POSITION SWITCH FOR ELECTRIC SCREEN (UP-RAISED, DOWN-LOWERS, CENTRE-STOPS).		
	120V SINGLE POLE SWITCH CONNECTED TO ROOM IN USE LIGHT.		
	WALL MOUNTED OCCUPANCY SENSOR COMPLETE WITH OVER RIDE SWITCH.		
	120V SINGLE POLE SWITCH (IN HEADWALL).		
	TIMER SWITCH, PROGRAMMED FOR AUTOMATIC 15 MINUTE SHUT-OFF.		
	LIGHTING SCENE CONTROL UNIT. "M" DENOTES MASTER CONTROLLER AND "S" DENOTES SLAVE CONTROLLER.		
	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR. "Y" DENOTES DALI CONNECTED OCCUPANCY DETECTOR FOR ANALYTICS. "S" DENOTES OCCUPANCY SENSOR FUNCTION ONLY.		
	WALL MOUNTED OCCUPANCY/VACANCY SENSOR. "Y" DENOTES DALI CONNECTED OCCUPANCY DETECTOR FOR ANALYTICS. "S" DENOTES OCCUPANCY SENSOR FUNCTION ONLY.		
	CEILING MOUNTED DAYLIGHT SENSOR.		
	CEILING MOUNTED VACANCY SENSOR.		
	24 HOUR DALI TIME SWITCH.		
	CEILING MOUNTED COMBINED OCCUPANCY SENSOR AND DAYLIGHT SENSOR.		
	DIGITAL TO ANALOG CONVERTER FOR DALI LIGHTING CONTROL SYSTEM TO CONTROL 0-10V LIGHTING DRIVER.		
	DALI FIELD RELAY.		
	WIRELESS LIGHTING CONTROL ADDRESSABLE MODULE.		
	LIGHTING SWITCH PANEL, TO PROVIDE CONTROL TO SINGLE LUMINAIRE IN EACH PATIENT BEDROOM WITHIN DEPARTMENT.		
	ROOM TUNABLE WHITE CONTROL UNIT. MASTER CONTROLLER LOCATED IN CTS.		
	MANUAL, TUNABLE WHITE CONTROL FOR DEPARTMENT, LOCATED IN CTS.		

DRAWING LIST		
DWG NO.	DRAWING TITLE	ISSUED
E-100	ELECTRICAL LEGEND, DRAWING LIST AND DETAILS	●
E-101	SINGLE LINE DIAGRAM - DEMOLITION	●
E-102	SINGLE LINE DIAGRAM - NEW MODIFICATION	●
E-103	ELECTRICAL SITE PLAN	●
E-104	ELECTRICAL DETAILS	●
E-105	ELECTRICAL PLAN - LEVEL G	●
E-106	ELECTRICAL PLAN - LEVEL M	●
E-107	ELECTRICAL PLAN - LEVEL 1	●
E-108	ELECTRICAL ROOM PLANS	●

METRIC EQUIVALENTS				
16mm - 1/2"	27mm - 1"	41mm - 1 1/2"	63mm - 2 1/2"	91mm - 3 1/2"
21mm - 3/4"	35mm - 1 1/4"	53mm - 2"	78mm - 3"	100mm - 4"

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05	2024-05-06	ISSUED FOR ESA PLANS REVIEW
04	2024-02-12	ISSUED FOR MOH CONTRACT DOCUMENTS
03	2024-01-19	ISSUED FOR MOH STAGE 2.3 COSTING
02	2023-12-18	ISSUED FOR COORDINATION
01	2023-06-09	ISSUED FOR COSTING

## DRAWING ISSUE

# CAMPBELLFORD MEMORIAL HOSPITAL GENERATOR REPLACEMENT

HHA PROJECT NUMBER: 2222483

## ELECTRICAL LEGEND, DRAWING LIST AND DETAILS

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SCALE:	N.T.S.	CHECKED BY:	T.BENSTEAD

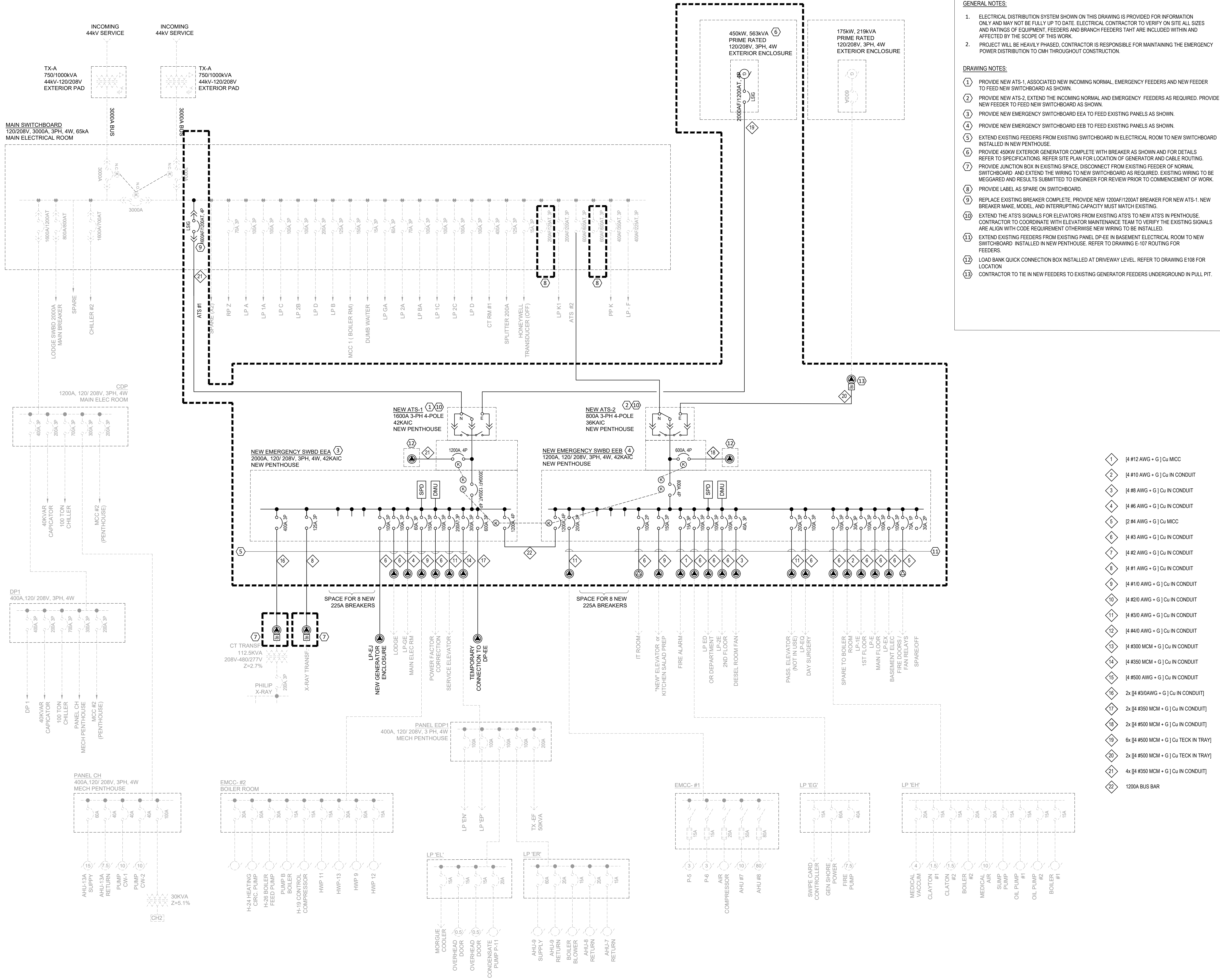
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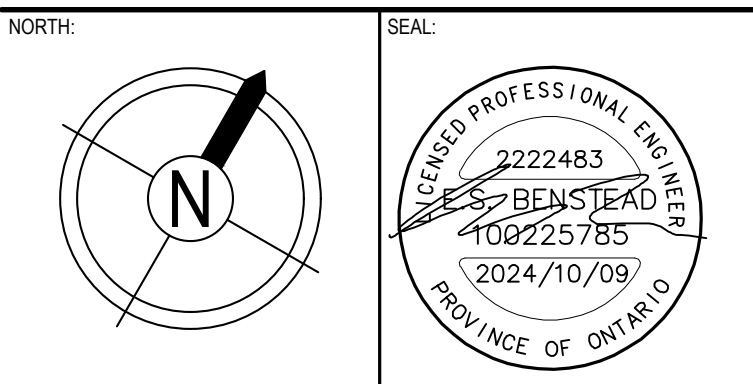


- GENERAL NOTES:**
- ELECTRICAL DISTRIBUTION SYSTEM SHOWN ON THIS DRAWING IS PROVIDED FOR INFORMATION ONLY AND MAY NOT BE FULLY UP TO DATE. ELECTRICAL CONTRACTOR TO VERIFY ON SITE ALL SIZES AND RATINGS OF EQUIPMENT, FEEDERS AND BRANCH FEEDERS TAHT ARE INCLUDED WITHIN AND AFFECTED BY THE SCOPE OF THIS WORK.
  - PROJECT WILL BE HEAVILY PHASED, CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EMERGENCY POWER DISTRIBUTION TO CMH THROUGHOUT CONSTRUCTION.
- DRAWING NOTES:**
- PROVIDE NEW ATS-1, ASSOCIATED NEW INCOMING NORMAL, EMERGENCY FEEDERS AND NEW FEEDER TO FEED NEW SWITCHBOARD AS SHOWN.
  - PROVIDE NEW ATS-2, EXTEND THE INCOMING NORMAL AND EMERGENCY FEEDERS AS REQUIRED. PROVIDE NEW FEEDER TO FEED NEW SWITCHBOARD AS SHOWN.
  - PROVIDE NEW EMERGENCY SWITCHBOARD EEA TO FEED EXISTING PANELS AS SHOWN.
  - PROVIDE NEW EMERGENCY SWITCHBOARD EEB TO FEED EXISTING PANELS AS SHOWN.
  - EXTEND EXISTING FEEDERS FROM EXISTING SWITCHBOARD IN ELECTRICAL ROOM TO NEW SWITCHBOARD INSTALLED IN NEW PENTHOUSE.
  - PROVIDE 450kW EXTERIOR GENERATOR COMPLETE WITH BREAKER AS SHOWN AND FOR DETAILS REFER TO SPECIFICATIONS. REFER SITE PLAN FOR LOCATION OF GENERATOR AND CABLE ROUTING.
  - PROVIDE JUNCTION BOX IN EXISTING SPACE, DISCONNECT FROM EXISTING FEEDER OF NORMAL SWITCHBOARD AND EXTEND THE WIRING TO NEW SWITCHBOARD AS REQUIRED. EXISTING WIRING TO BE MEGGARED AND RESULTS SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
  - PROVIDE LABEL AS SPARE ON SWITCHBOARD.
  - REPLACE EXISTING BREAKER COMPLETE. PROVIDE NEW 1200AF/1200AT BREAKER FOR NEW ATS-1. NEW BREAKER MAKE, MODEL, AND INTERRUPTING CAPACITY MUST MATCH EXISTING.
  - EXTEND THE ATS'S SIGNALS FOR ELEVATORS FROM EXISTING ATSS TO NEW ATSS IN PENTHOUSE. CONTRACTOR TO COORDINATE WITH ELEVATOR MAINTENANCE TEAM TO VERIFY THE EXISTING SIGNALS ARE ALIGN WITH CODE REQUIREMENT OTHERWISE NEW WIRING TO BE INSTALLED.
  - EXTEND EXISTING FEEDERS FROM EXISTING PANEL DP-EE IN BASEMENT ELECTRICAL ROOM TO NEW SWITCHBOARD INSTALLED IN NEW PENTHOUSE. REFER TO DRAWING E-107 ROUTING FOR FEEDERS.
  - LOAD BANK QUICK CONNECTION BOX INSTALLED AT DRIVEWAY LEVEL. REFER TO DRAWING E-108 FOR LOCATION
  - CONTRACTOR TO TIE IN NEW FEEDERS TO EXISTING GENERATOR FEEDERS UNDERGROUND IN PULL PIT.

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KEYPLAN:



PROJECT:  
**CAMPBELLFORD MEMORIAL  
HOSPITAL  
GENERATOR REPLACEMENT**

HHA PROJECT NUMBER: 2222483

DRAWING TITLE:  
**SINGLE LINE DIAGRAM -  
MODIFICATION**

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SCALE:	N.T.S.	CHECKED BY:	T.BENSTEAD

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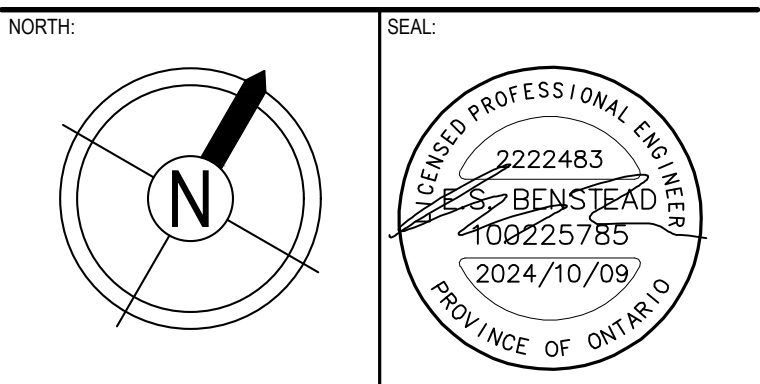




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PROJECT:  
CAMPBELLFORD MEMORIAL  
HOSPITAL  
GENERATOR REPLACEMENT  
HHA PROJECT NUMBER: 2222483  
DRAWING TITLE:  
ELECTRICAL SITE PLAN

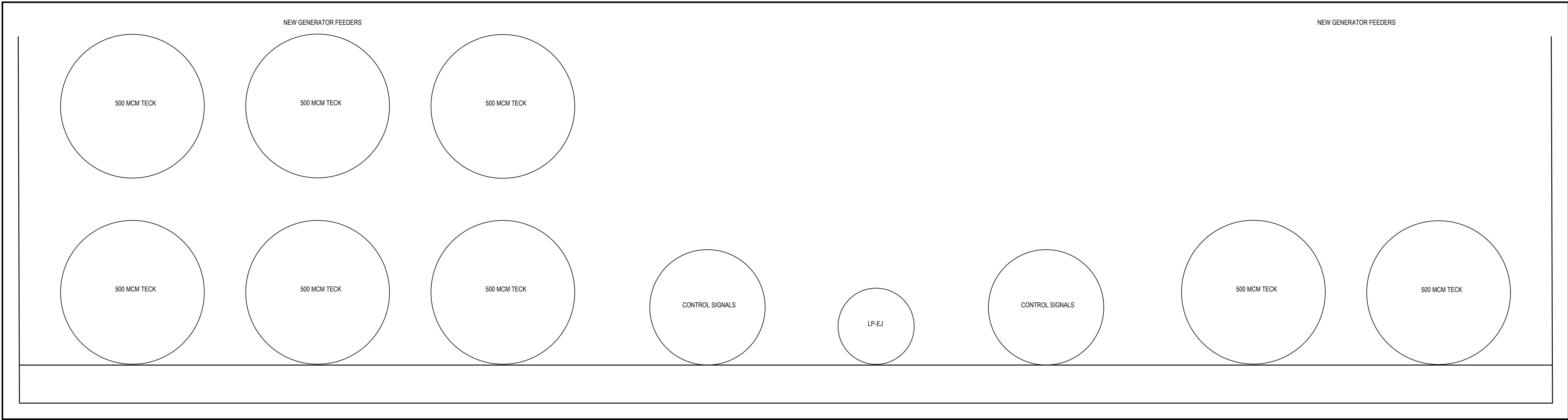
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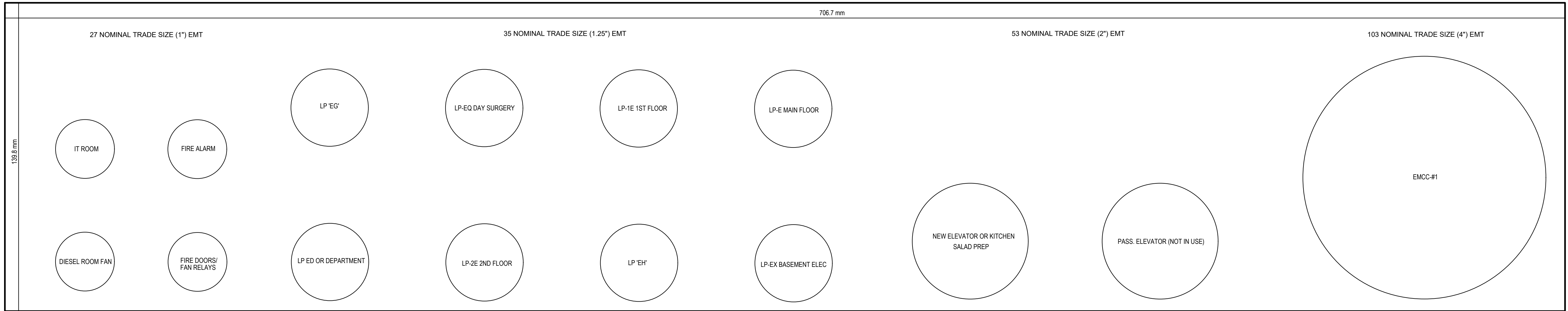
1 GENERATOR FEEDERS

N.T.S.



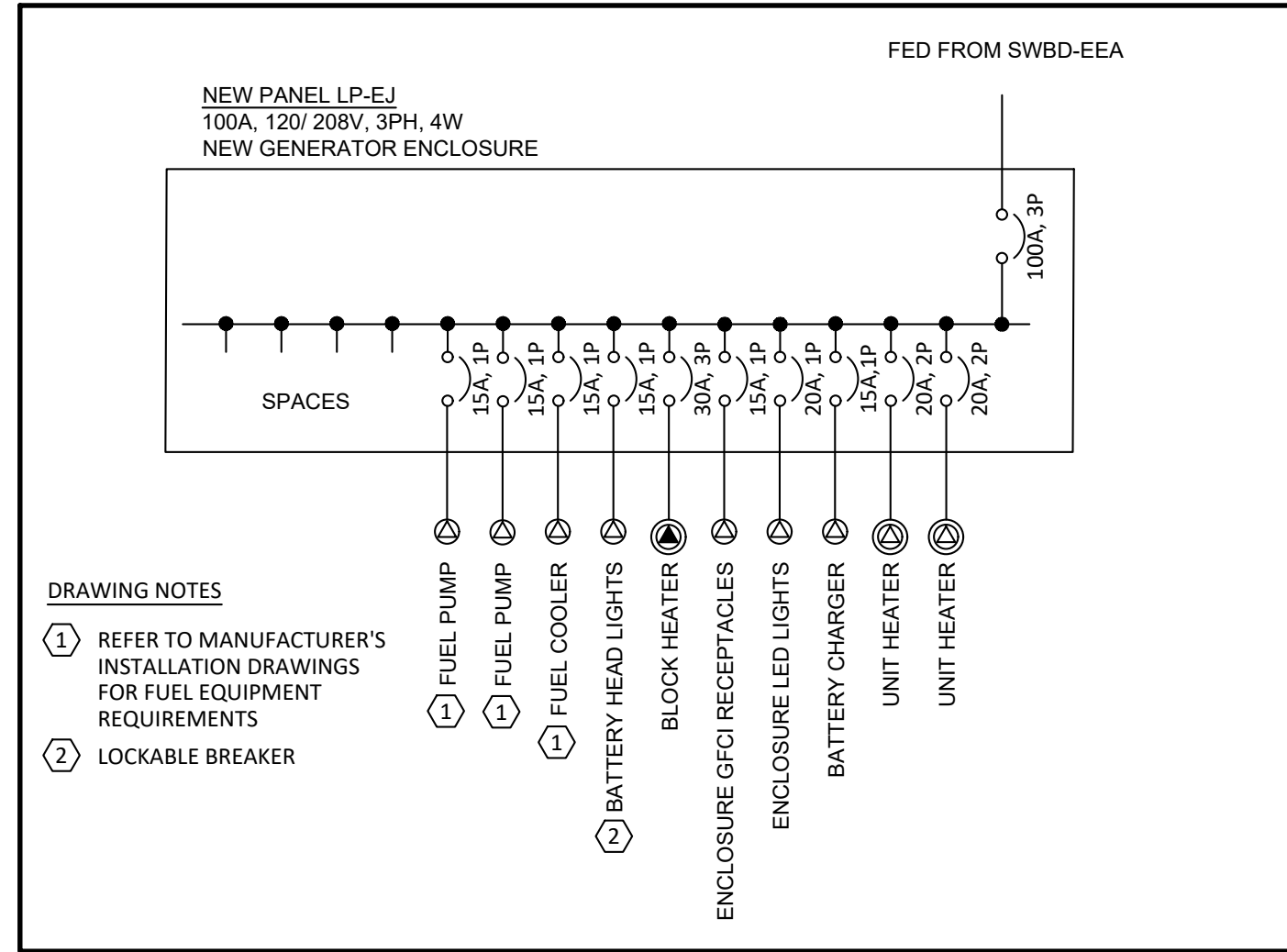
2 ELECTRICAL FEEDER AND CONDUIT LAYOUT

N.T.S.



4 PANEL LP-EJ

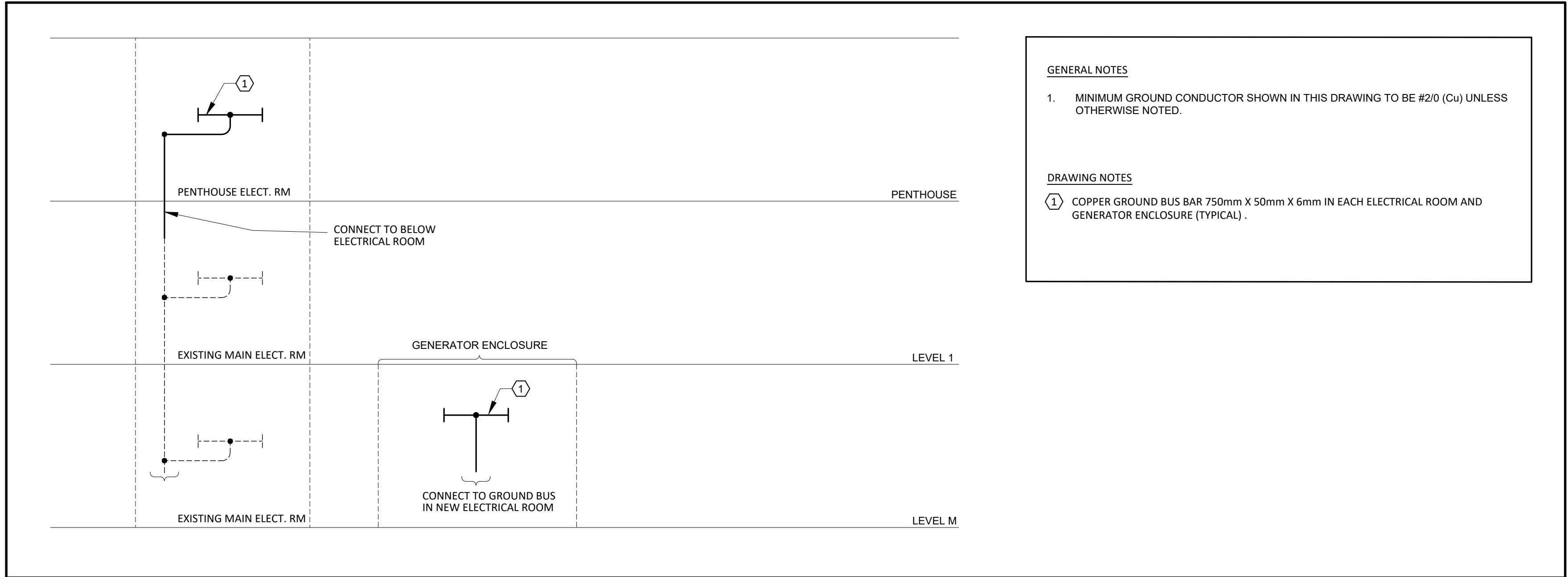
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- DRAWING NOTES
- REFER TO MANUFACTURER'S INSTALLATION DRAWINGS FOR FUEL EQUIPMENT REQUIREMENTS
  - LOCKABLE BREAKER

3 ELECTRICAL GROUNDING SYSTEM DIAGRAM

N.T.S.

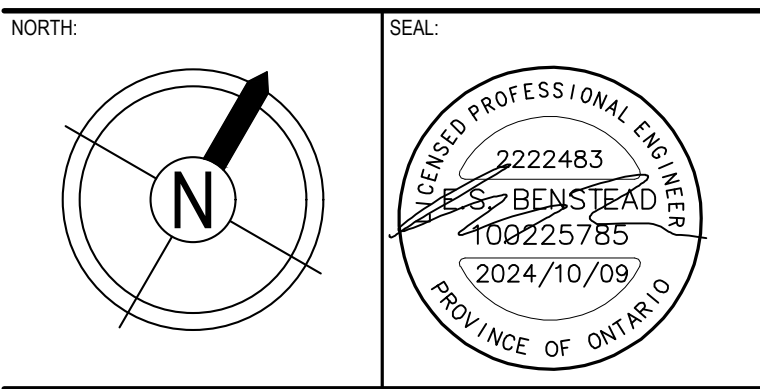


- GENERAL NOTES
- MINIMUM GROUND CONDUCTOR SHOWN IN THIS DRAWING TO BE #2/0 (Cu) UNLESS OTHERWISE NOTED.
- DRAWING NOTES
- COPPER GROUND BUS BAR 750mm X 50mm X 6mm IN EACH ELECTRICAL ROOM AND GENERATOR ENCLOSURE (TYPICAL).

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KEYPLAN:



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CAMPBELLFORD MEMORIAL  
HOSPITAL  
GENERATOR REPLACEMENT

HHA PROJECT NUMBER: 2222483

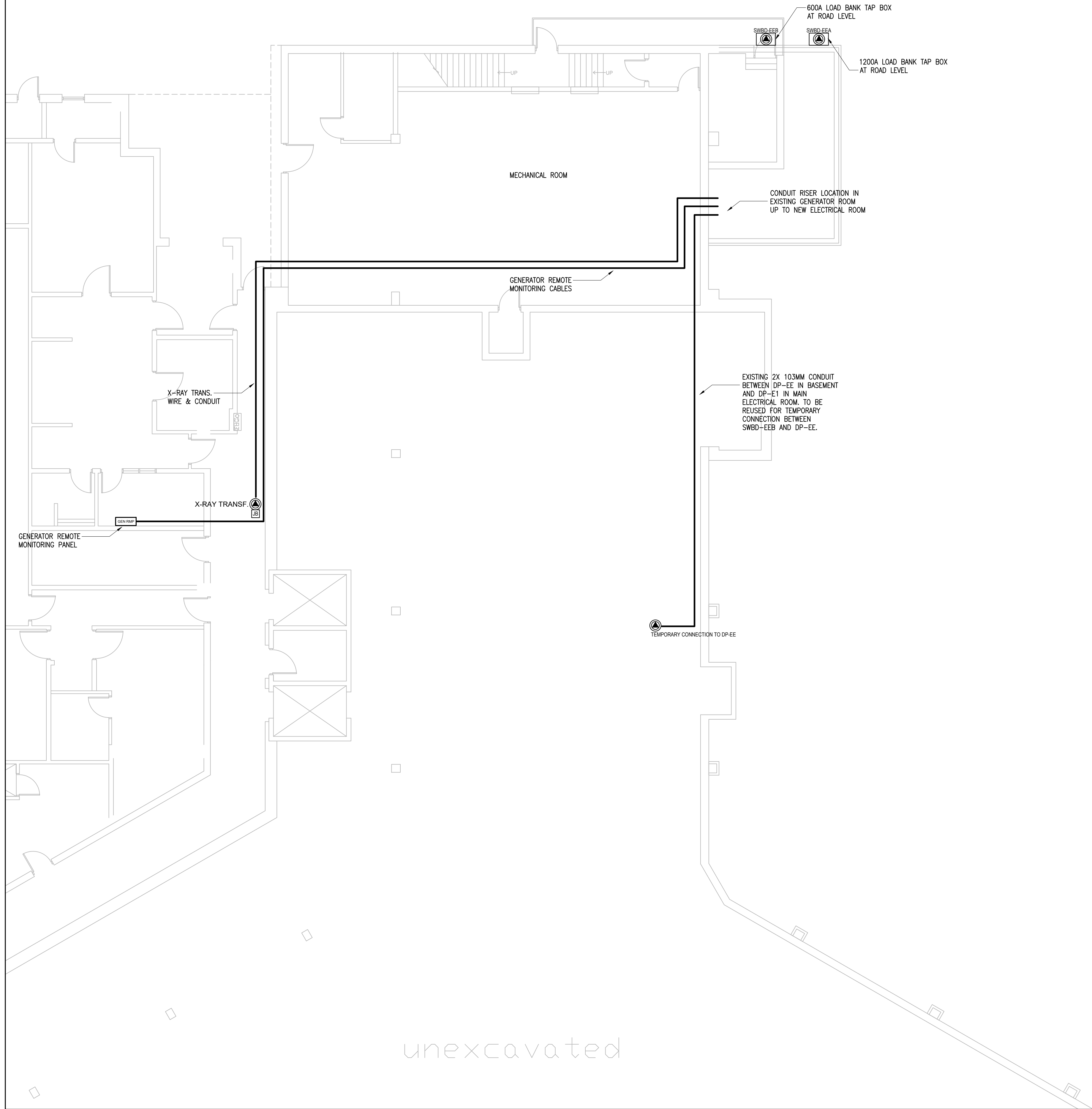
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ELECTRICAL DETAILS - 1

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E-104



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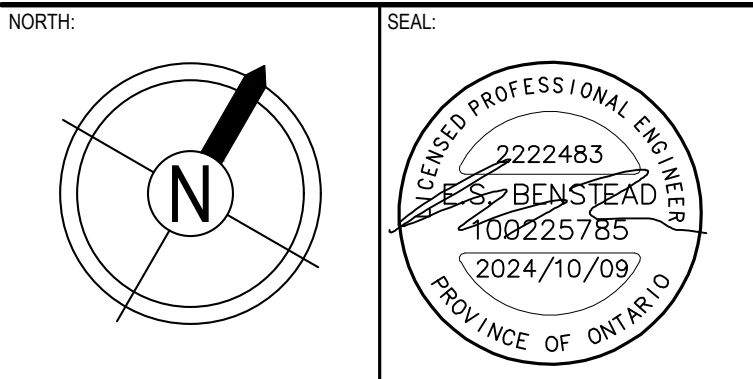


1 ELECTRICAL PLAN - LEVEL G  
E-105 1:100

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01	2023-06-09	ISSUED FOR COSTING
NO.	DATE (YYYY-MM-DD)	DESCRIPTION
DRAWING ISSUE		

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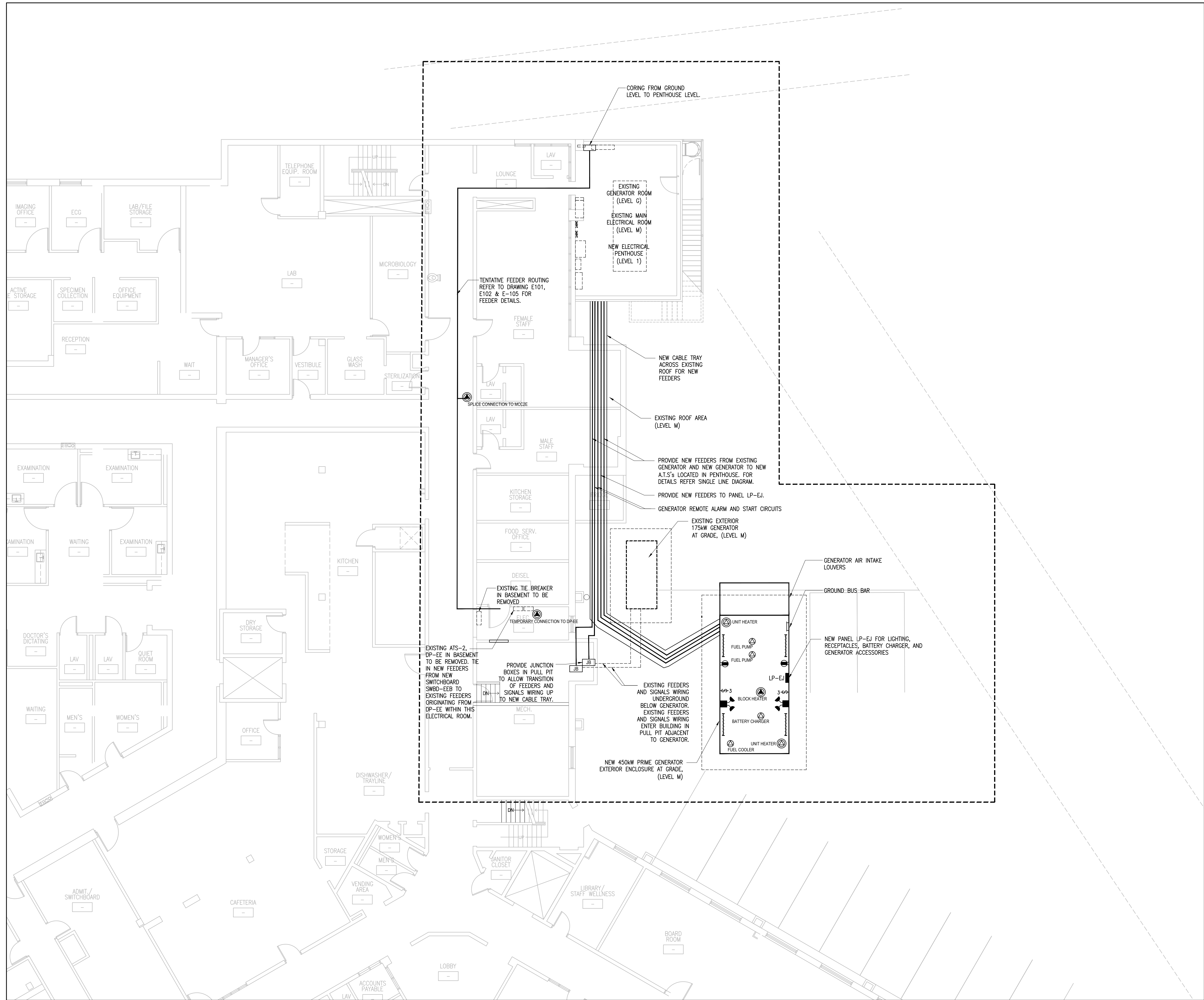


PROJECT:  
**CAMPBELLFORD MEMORIAL  
HOSPITAL  
GENERATOR REPLACEMENT**

HHA PROJECT NUMBER: 2222483  
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**ELECTRICAL PLAN - LEVEL G**

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**E-105**

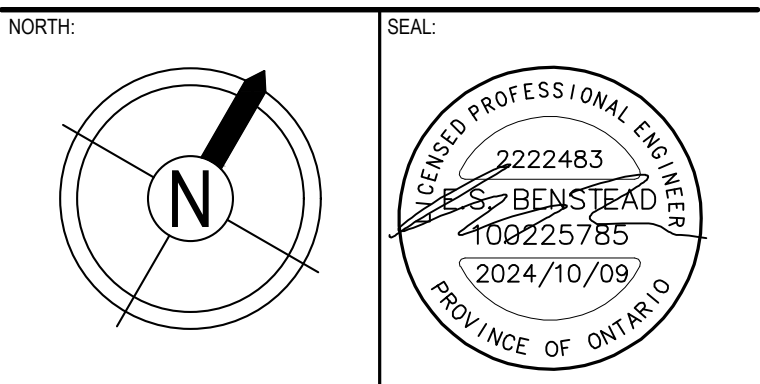


1 ELECTRICAL PLAN - LEVEL M  
E-106 1:100

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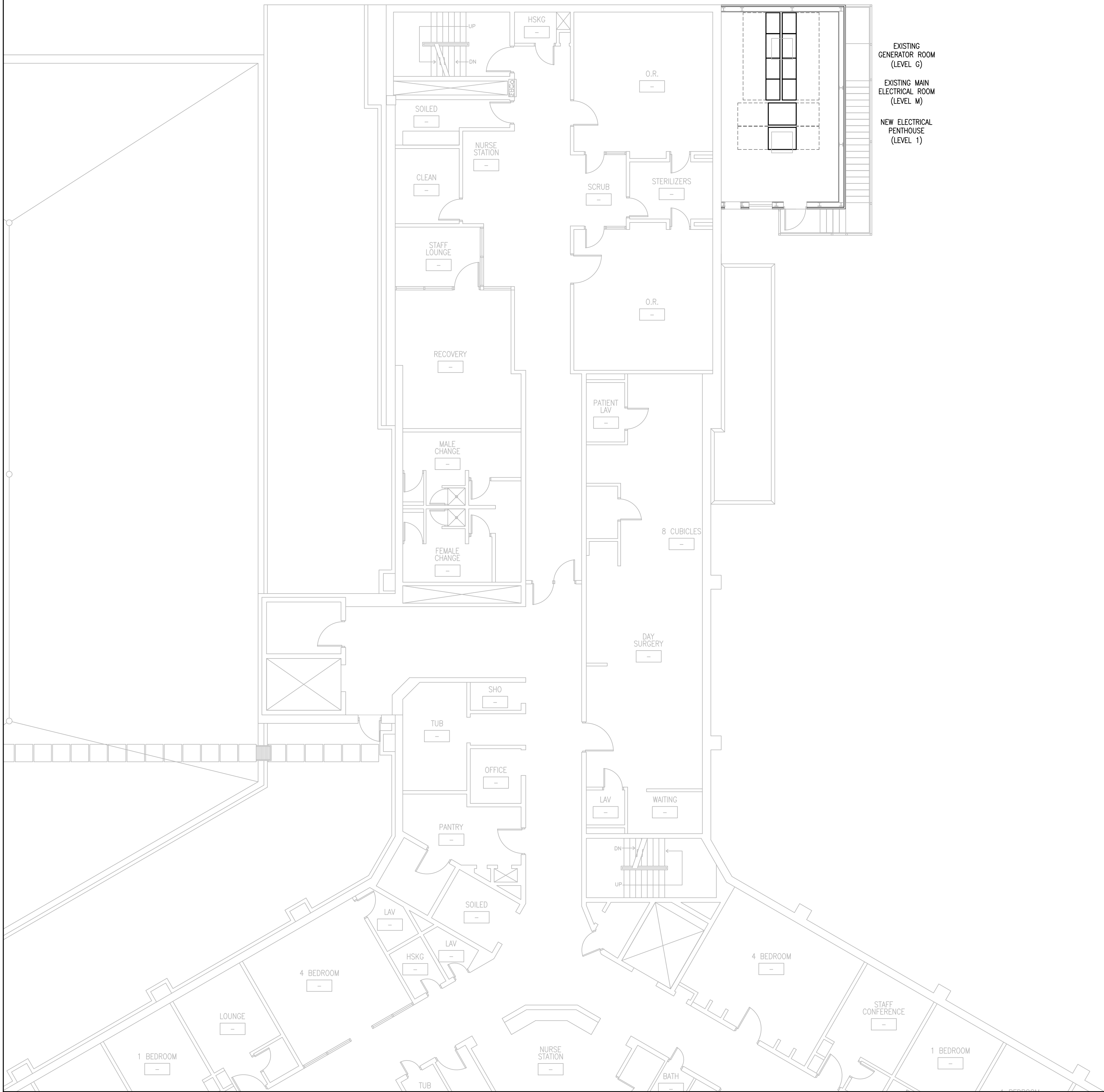


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HOSPITAL  
GENERATOR REPLACEMENT  
HHA PROJECT NUMBER: 2222483  
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ELECTRICAL PLAN - LEVEL M

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E-106

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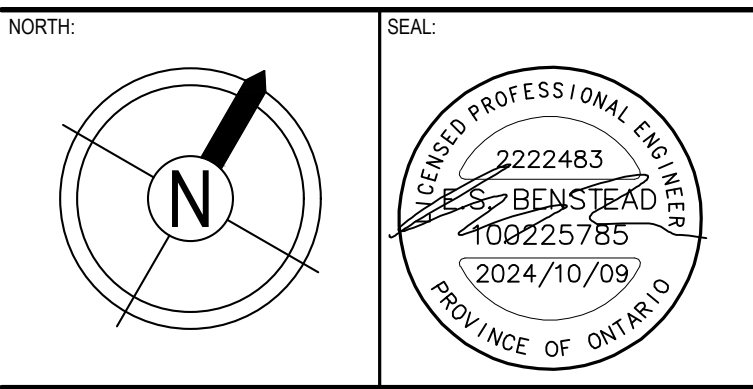


1 ELECTRICAL PLAN - LEVEL 1  
E-107 1:100

DRAWING REVISIONS		
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KEYPLAN:



PROJECT:  
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HOSPITAL  
GENERATOR REPLACEMENT**

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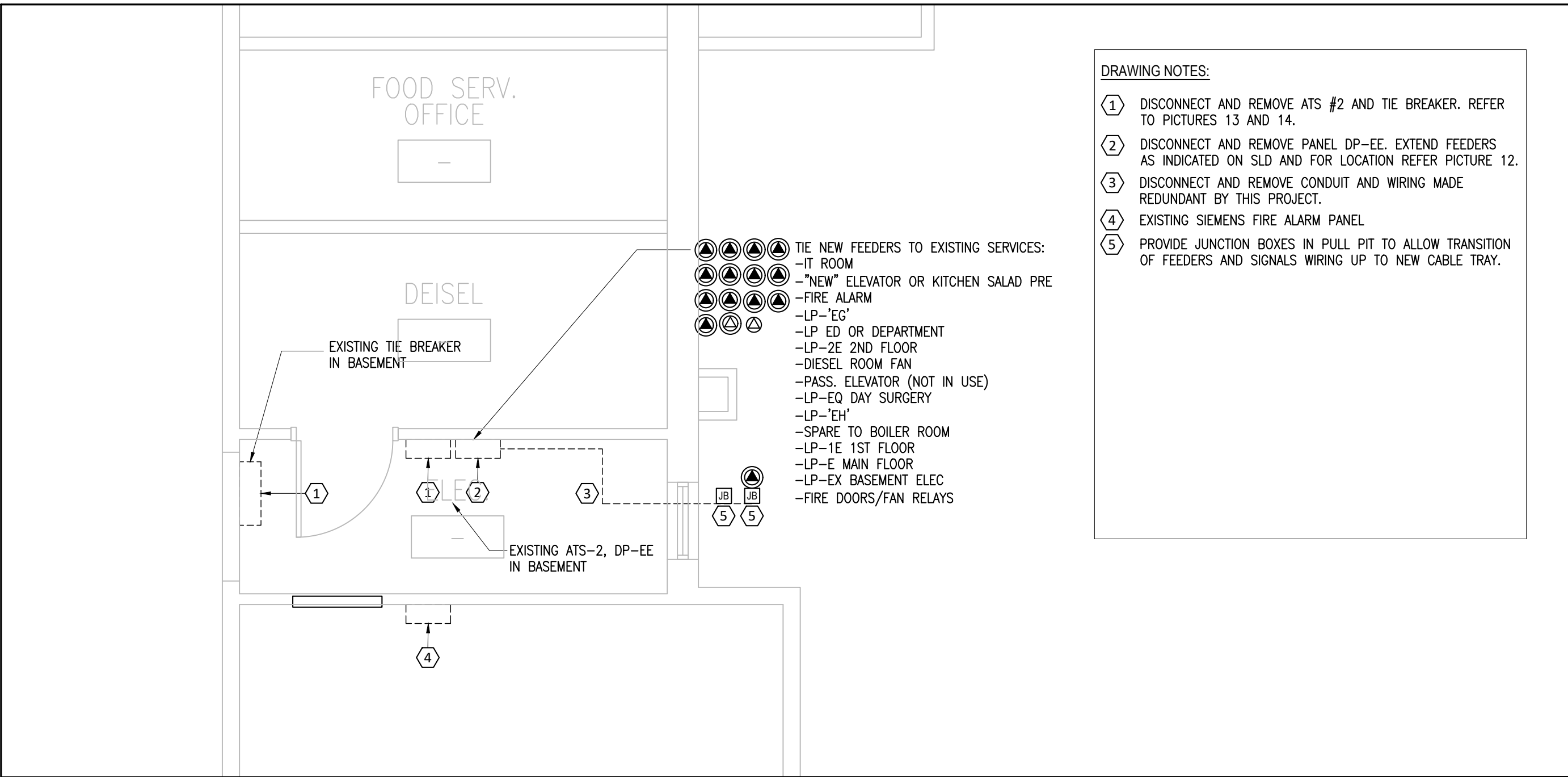
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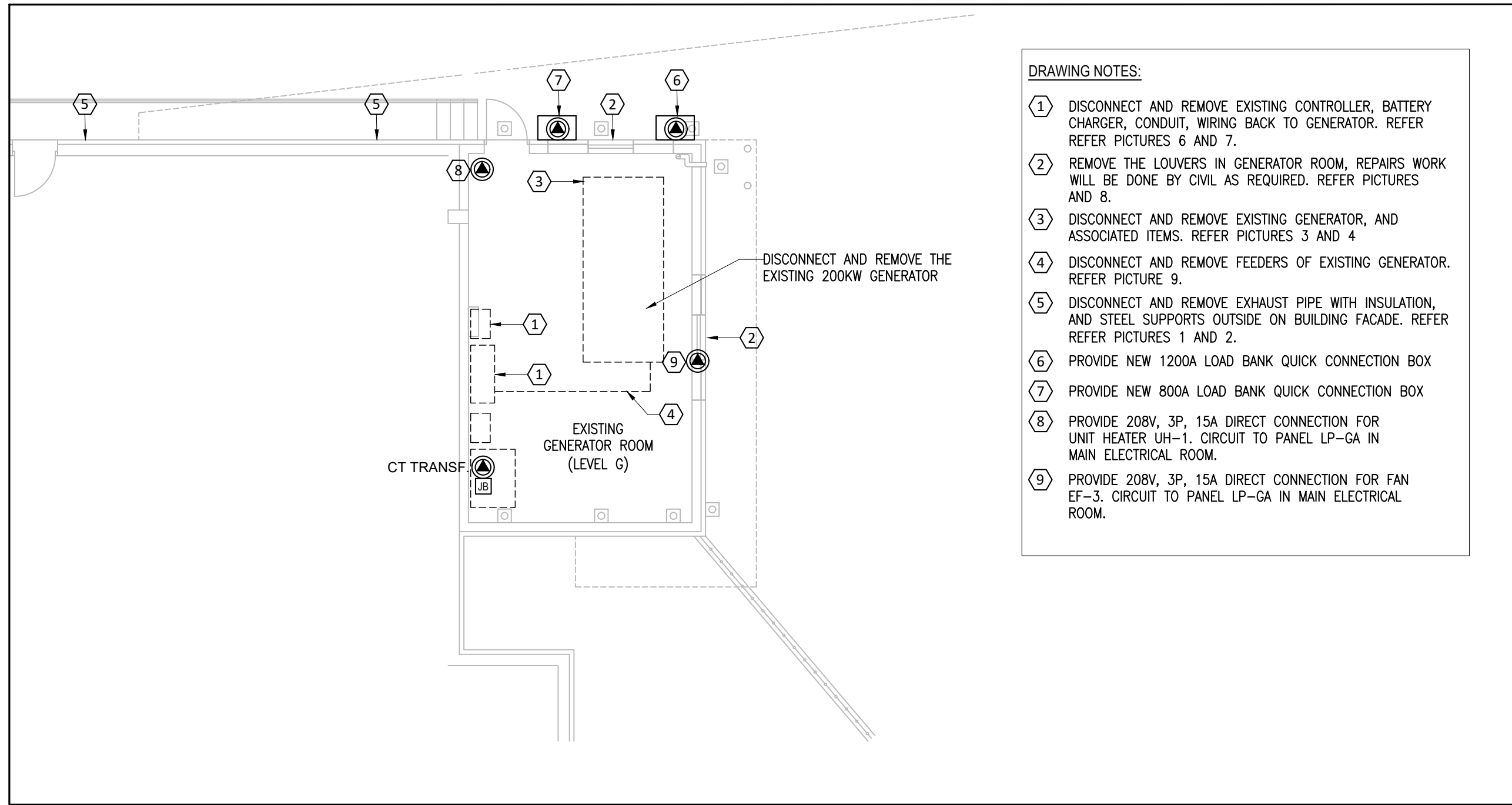
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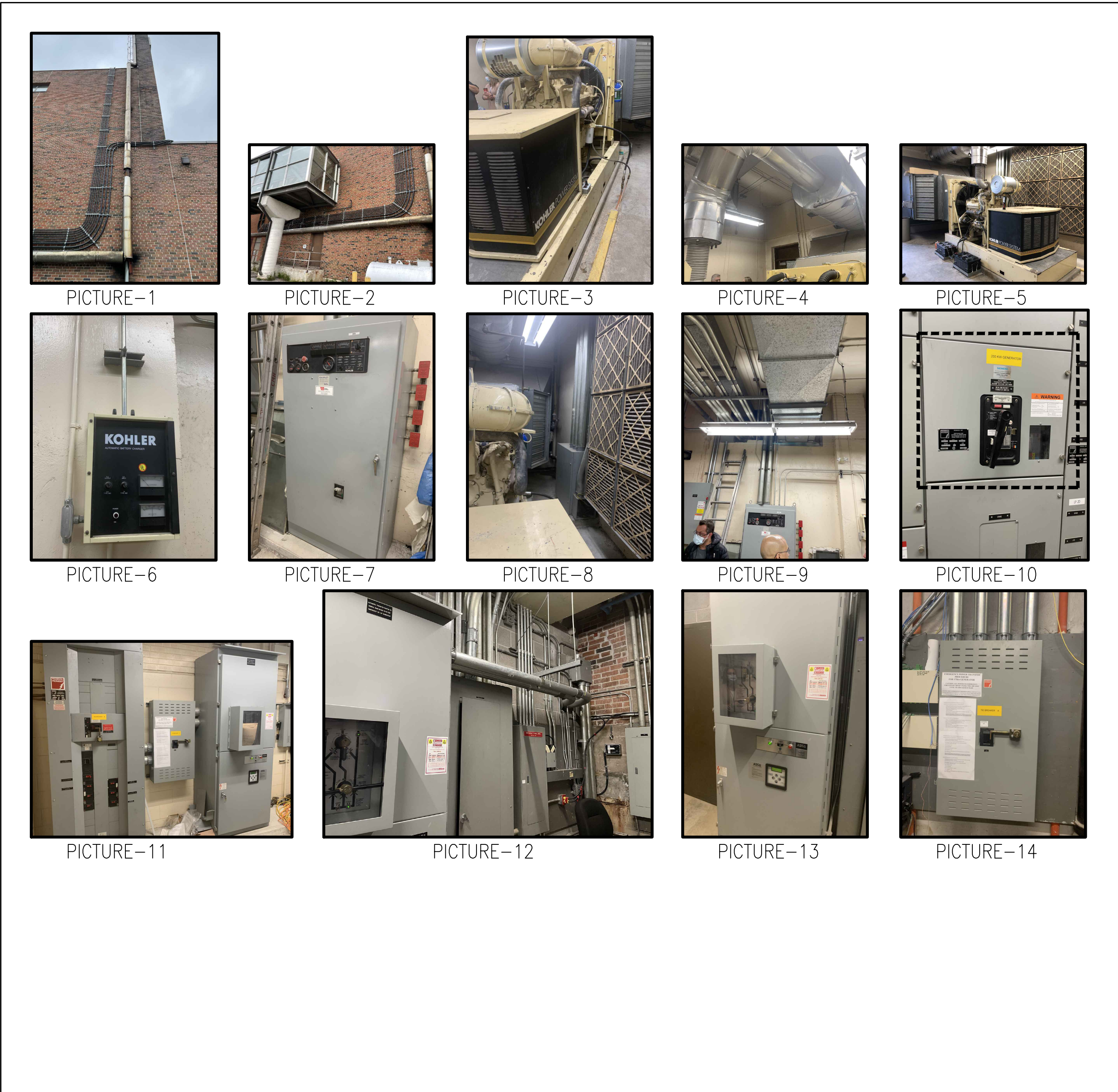
- DRAWING NOTES:
- 1 DISCONNECT AND REMOVE ATS #2 AND TIE BREAKER. REFER TO PICTURES 13 AND 14.
  - 2 DISCONNECT AND REMOVE PANEL DP-EE. EXTEND FEEDERS AS INDICATED ON SLD AND FOR LOCATION REFER PICTURE 12.
  - 3 DISCONNECT AND REMOVE CONDUIT AND WIRING MADE REDUNDANT BY THIS PROJECT.
  - 4 EXISTING SIEMENS FIRE ALARM PANEL.
  - 5 PROVIDE JUNCTION BOXES IN PULL PIT TO ALLOW TRANSITION OF FEEDERS AND SIGNALS WIRING UP TO NEW CABLE TRAY.

4 EXISTING ELECTRICAL ROOM – BASEMENT  
E-108 1:100

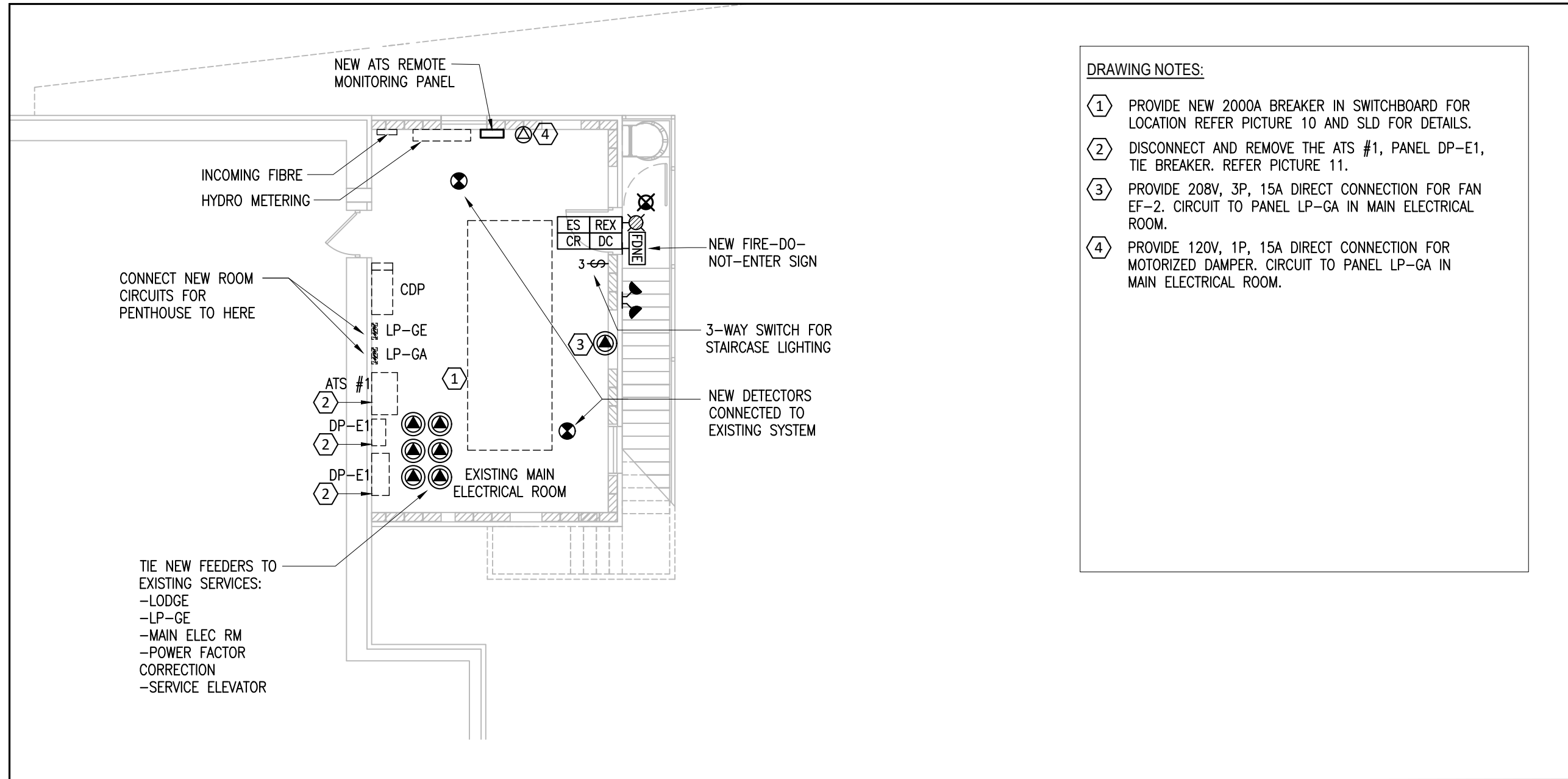


- DRAWING NOTES:
- 1 DISCONNECT AND REMOVE EXISTING CONTROLLER, BATTERY CHARGER, CONDUIT, WIRING BACK TO GENERATOR. REFER PICTURES 6 AND 7.
  - 2 REMOVE THE LOUVERS IN GENERATOR ROOM. REPAIRS WORK WILL BE DONE BY CIVIL AS REQUIRED. REFER PICTURES AND 8.
  - 3 DISCONNECT AND REMOVE EXISTING GENERATOR, AND ASSOCIATED ITEMS. REFER PICTURES 3 AND 4
  - 4 DISCONNECT AND REMOVE FEEDERS OF EXISTING GENERATOR. REFER PICTURE 9.
  - 5 DISCONNECT AND REMOVE EXHAUST PIPE WITH INSULATION, AND STEEL SUPPORTS OUTSIDE ON BUILDING FACADE. REFER PICTURES 1 AND 2.
  - 6 PROVIDE NEW 1200A LOAD BANK QUICK CONNECTION BOX
  - 7 PROVIDE NEW 800A LOAD BANK QUICK CONNECTION BOX
  - 8 PROVIDE 208V, 3P, 15A DIRECT CONNECTION FOR UNIT HEATER UH-1. CIRCUIT TO PANEL LP-GA IN MAIN ELECTRICAL ROOM.
  - 9 PROVIDE 208V, 3P, 15A DIRECT CONNECTION FOR FAN EF-3. CIRCUIT TO PANEL LP-GA IN MAIN ELECTRICAL ROOM.

1 EXISTING GENERATOR ROOM  
E-108 1:100

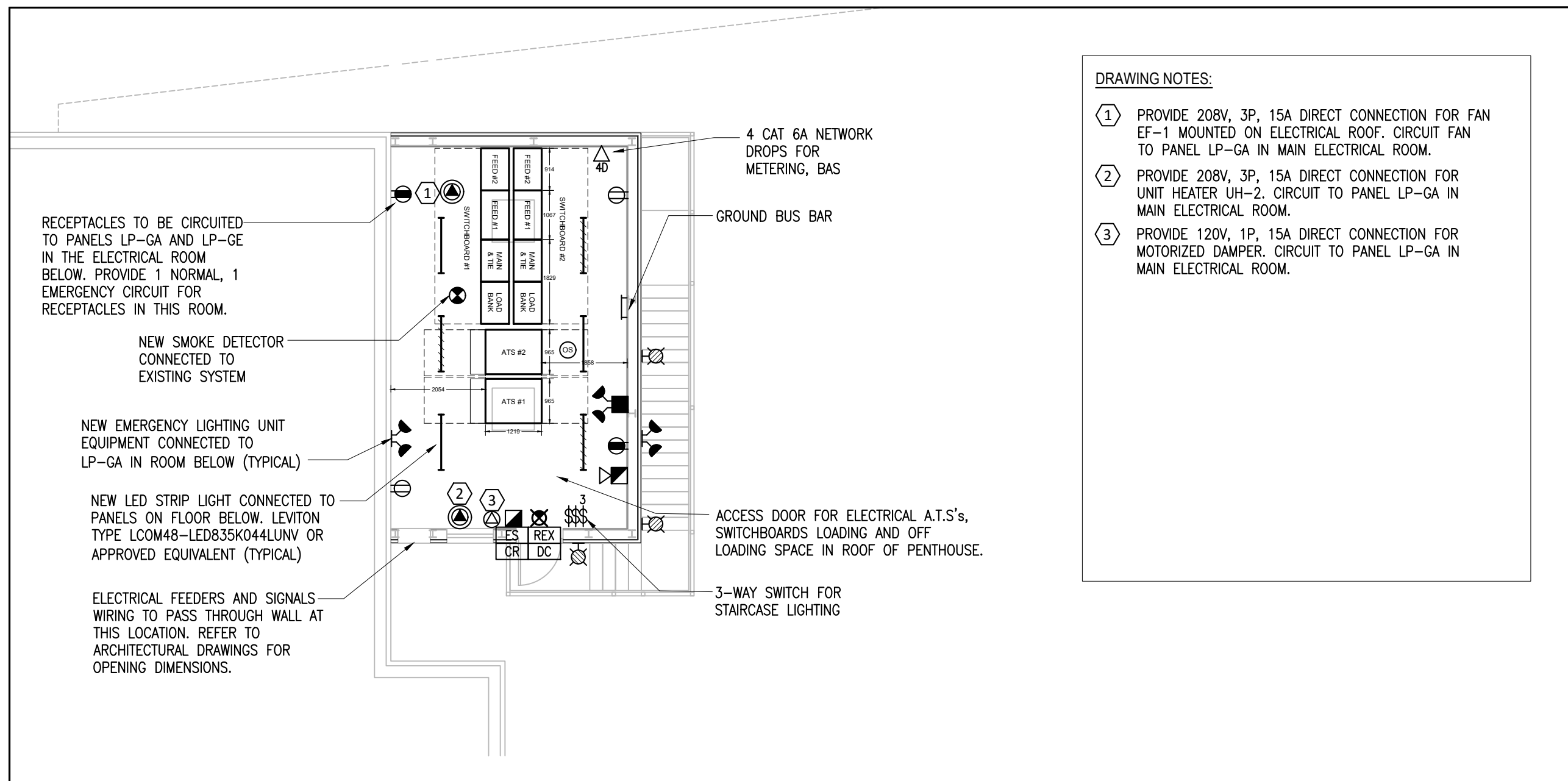


5 EXISTING EQUIPMENT PICTURES  
E-108



- DRAWING NOTES:
- 1 PROVIDE NEW 2000A BREAKER IN SWITCHBOARD FOR LOCATION REFER PICTURE 10 AND SLD FOR DETAILS.
  - 2 DISCONNECT AND REMOVE THE ATS #1, PANEL DP-E1, TIE BREAKER. REFER PICTURE 11.
  - 3 PROVIDE 208V, 3P, 15A DIRECT CONNECTION FOR FAN EF-2. CIRCUIT TO PANEL LP-GA IN MAIN ELECTRICAL ROOM.
  - 4 PROVIDE 120V, 1P, 15A DIRECT CONNECTION FOR MOTORIZED DAMPER. CIRCUIT TO PANEL LP-GA IN MAIN ELECTRICAL ROOM.

2 EXISTING ELECTRICAL ROOM – MAIN LEVEL  
E-108 1:100



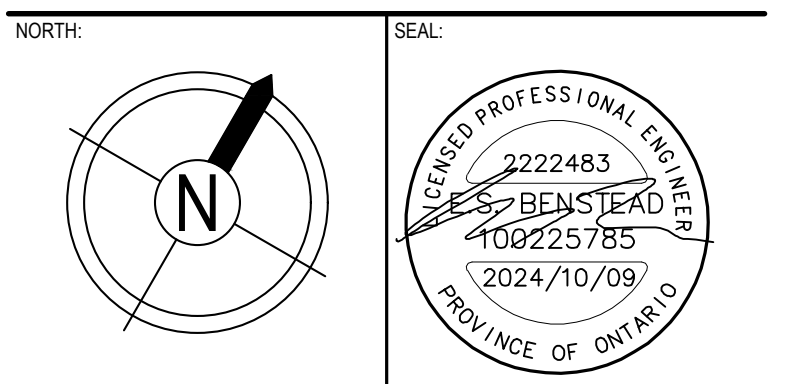
- DRAWING NOTES:
- 1 PROVIDE 208V, 3P, 15A DIRECT CONNECTION FOR FAN EF-1 MOUNTED ON ELECTRICAL ROOF. CIRCUIT FAN TO PANEL LP-GA IN MAIN ELECTRICAL ROOM.
  - 2 PROVIDE 208V, 3P, 15A DIRECT CONNECTION FOR UNIT HEATER UH-2. CIRCUIT TO PANEL LP-GA IN MAIN ELECTRICAL ROOM.
  - 3 PROVIDE 120V, 1P, 15A DIRECT CONNECTION FOR MOTORIZED DAMPER. CIRCUIT TO PANEL LP-GA IN MAIN ELECTRICAL ROOM.

3 NEW ELECTRICAL ROOM PLAN – PENTHOUSE  
E-108 1:100

NO.	DATE (YYYY-MM-DD)	DESCRIPTION
DRAWING REVISIONS		

06	2024-10-09	ISSUED FOR BID AND PERMIT
05	2024-05-06	ISSUED FOR ESA PLANS REVIEW
04	2024-02-12	ISSUED FOR MOH CONTRACT DOCUMENTS
03	2024-01-19	ISSUED FOR MOH STAGE 2.3 COSTING
02	2023-12-18	ISSUED FOR COORDINATION
01	2023-06-09	ISSUED FOR COSTING
NO.	DATE (YYYY-MM-DD)	DESCRIPTION
DRAWING ISSUE		

KEYPLAN:



PROJECT:  
CAMPBELLFORD MEMORIAL  
HOSPITAL  
GENERATOR REPLACEMENT

HHA PROJECT NUMBER: 2222483

DRAWING TITLE:  
ELECTRICAL  
ROOM PLANS

PAGE SIZE:	ARCH D	DRAWN BY:	W.EVANS
SCALE:	AS NOTED	CHECKED BY:	W.EVANS
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E-108