



YORK REGIONAL POLICE  
HELICOPTER HANGAR

350 GARFIELD WRIGHT  
BOULEVARD  
TOWN OF EAST Gwillimbury

Key  
Plan

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for GENERATOR, AUTOMATIC TRANSFER SWITCH, and DETECTOR types.

ELECTRICAL DRAWING LIST  
DRAWING # DRAWING NAME  
Table listing drawing numbers and names such as E-001 ELECTRICAL LEGEND & DRAWING LIST.

GENERAL NOTE:  
SYMBOLS WITHIN HATCHED AREA ARE ROUGH-IN ONLY. COORDINATE EXACT INSTALLATION LOCATION WITH OWNER. DEVICES TO BE INSTALLED BY OWNER. UNLESS NOTED OTHERWISE, ALL CONDUITS ARE MINIMUM 1 INCH, AND BROUGHT TO THE IT ROOM.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for FIRE DETECTION - INITIATION DEVICES, FIRE DETECTION AND ALARM - SUPERVISORY DEVICES, and FIRE DETECTION AND ALARM - SIGNALLING DEVICES.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for WALL MOUNTED DATA OUTLET, VOICE DATA, TV OUTLET, and various communication and control devices.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for SPECIAL RECEPTACLE, FLOOR RECEPTACLE, SERVICE POLE, and various lighting fixtures.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for SYSTEM FURNITURE WALL FEED, LIGHTING CONTROLS, and DISTRIBUTION EQUIPMENT.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for ELECTRICAL LEGEND, LINE TYPES, and various equipment like DISHWASHER, FRIDGE, and MICROWAVE.

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings  
Drawn by: ZK  
Checked by: AO  
Original Issue Date: 2024-07-31  
Project No: TT-24-005

Sheet  
Title:  
ELECTRICAL LEGEND &  
DRAWING LIST

Drawing  
No.  
E-001



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
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## YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT  
BOULEVARD  
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Plan

NO.	ISSUED	DATE
7	ISSUED FOR ADDENDUM 8	2024-10-07
6	ISSUED FOR ADDENDUM 6	2024-09-30
5	ISSUED FOR ADDENDUM 3	2024-09-23
4	ISSUED FOR ADDENDUM 1	2024-09-16
3	ISSUED FOR TENDER	2024-09-09
2	ISSUED FOR SITE PLAN APPROVAL	2024-08-16
1	ISSUED FOR BUILDING PERMIT	2024-07-31

### Issues

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Sheet  
Title:  
**ELECTRICAL SITE PLAN**

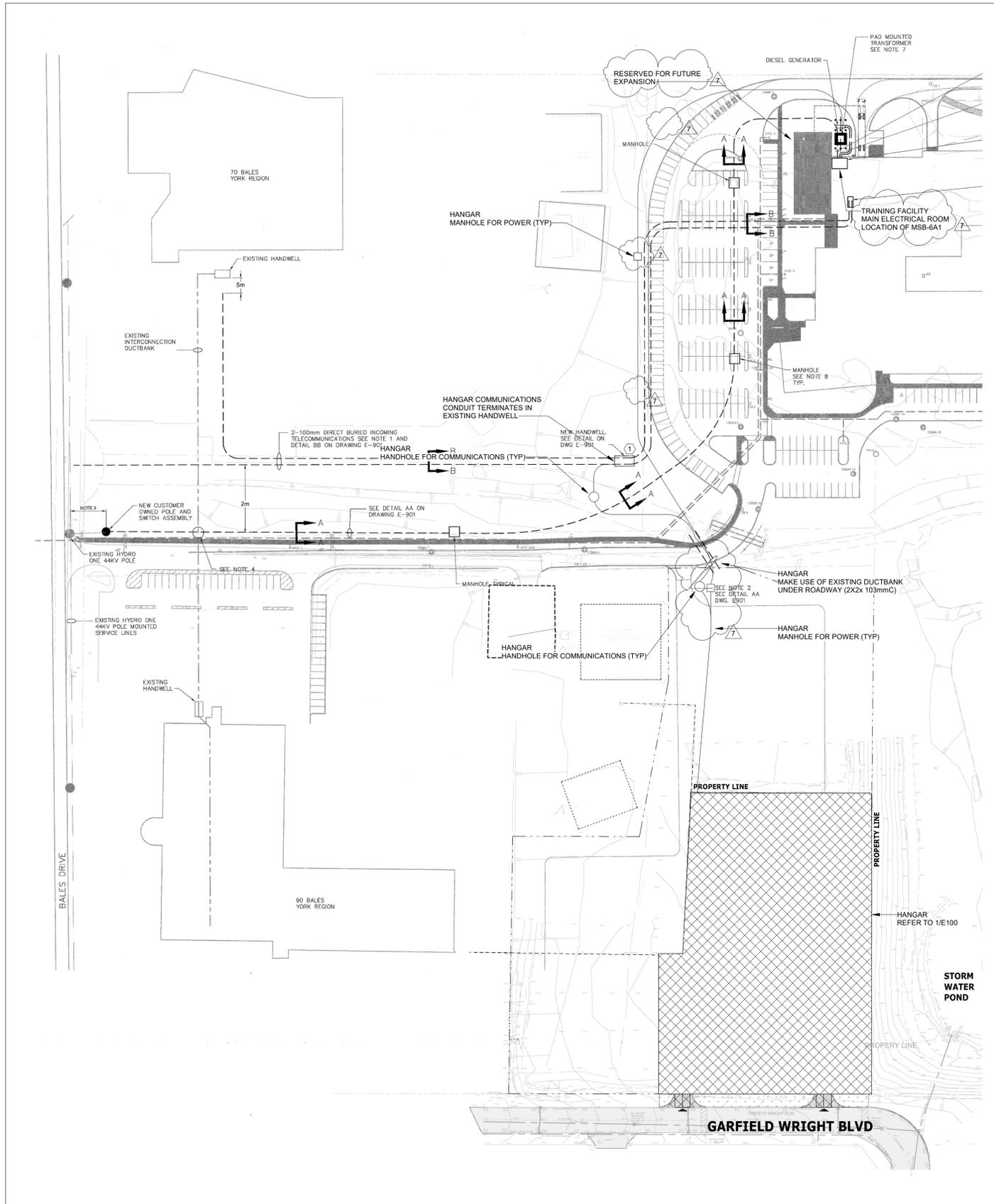
Drawing  
No:  
**E-100**

### GENERAL NOTES

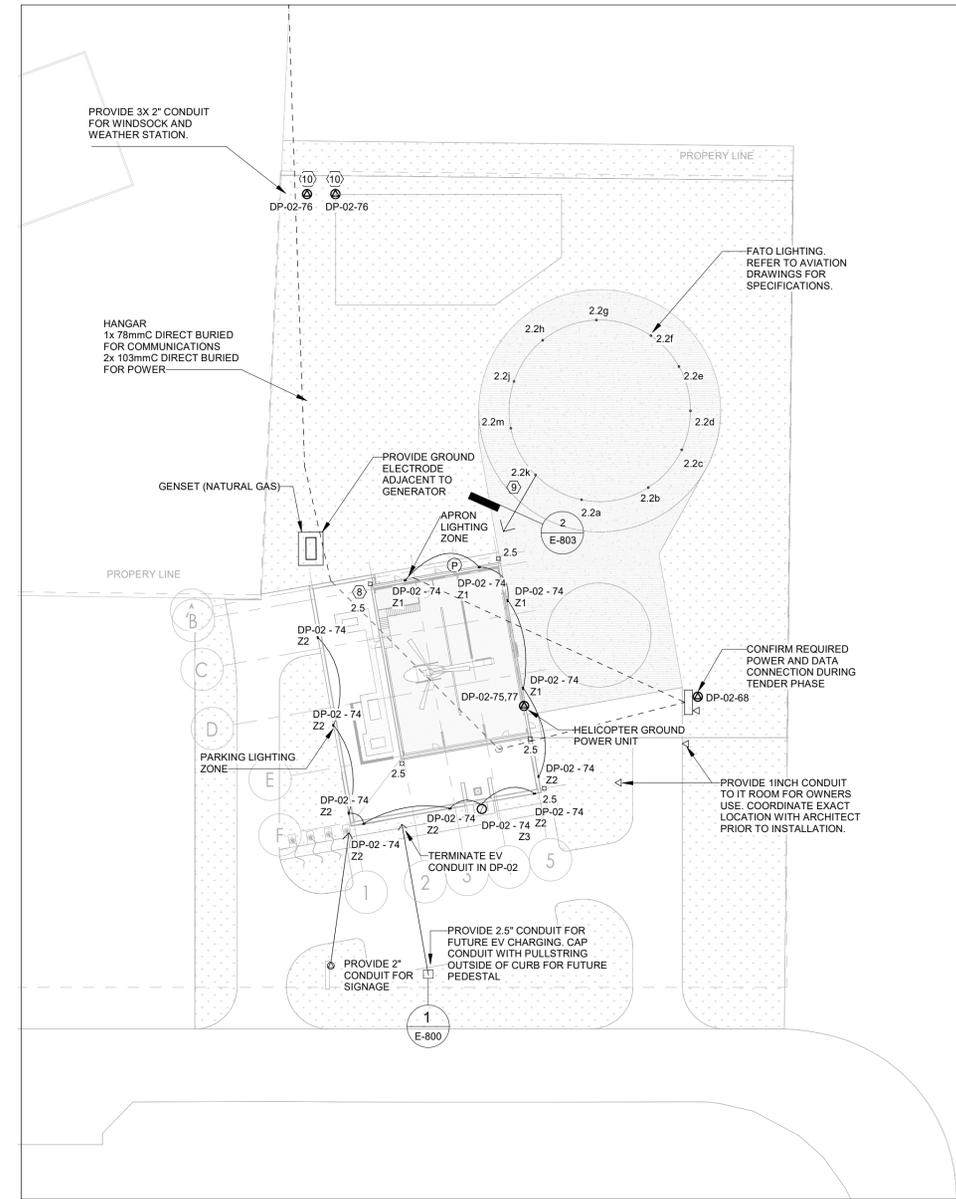
- WHERE DIMENSIONS ARE PROVIDED IN METRIC AND IN IMPERIAL UNITS, METRIC DIMENSIONS GOVERN.
- EMERGENCY POWER FOR LIGHTING AND FIRE ALARM: MINIMUM 30 MINUTES (2012 OBC 3.2.7.4.1)(b)(iv) "30 MIN FOR ANY OTHER BUILDING").
- FIRE ALARM INSTALLATION IN ACCORDANCE WITH CANULC-S524-14.
- VERIFY FIRE ALARM SYSTEM IN ACCORDANCE WITH CANULC-S537-13.
- COMMISSION INTERCONNECTED LIFE SAFETY SYSTEMS IN ACCORDANCE WITH CANULC-S1001-11.
- PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH SECTION 26 05 49. THIS IS A POST-DISASTER BUILDING. SEISMIC RESTRAINTS ARE REQUIRED PER 2012 OBC 4.1.8.18.(1) AND ARE NOT EXEMPT PER 2012 OBC 4.1.8.18.(2).
- AVIATION OBSTRUCTION LIGHTS, FED FROM PANEL DP-02-42.
- FATO LIGHTS ARE FED FROM HELIPORT LIGHTING CONTROLLER, PROVIDE 5C-12AWG+BNL.
- COORDINATE FINAL LOCATION OF EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO AVIATION DRAWINGS FOR DETAILS OF AVIATION RELATED EQUIPMENT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

### KEYNOTE LEGEND

- TERMINATE NEW COMMUNICATIONS DUCT IN EXISTING COMMUNICATIONS HANDWELL. ENSURE NEW DUCT IS INSTALLED ON OPPOSITE FACES OF HANDWELL TO ALLOW FOR A STRAIGHT PULL (BY OWNER).
- OVERALL SITE PLAN (1:1000 SCALE) HAS BEEN DRAWN ON EXISTING SITE PLANS FROM OTHER PROJECTS. NOTES WRITTEN FOR THIS PROJECT ARE PREFIXED BY THE TERM "HANGAR". OTHER NOTES ARE INFORMATION ONLY.



2 **OVERALL SITE PLAN**  
SCALE: 1 : 1000



1 **SITE PLAN**  
SCALE: 1 : 500



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KEYNOTE LEGEND	
Key Value	Keynote Text
L1	COMBINATION OF ULTRASONIC (US) AND PASSIVE INFRARED (PIR) TECHNOLOGIES
L2	WIRELESS HIGH MOUNT SENSOR FOR OCCUPANCY SENSING AND DAYLIGHT HARVESTING. MATCH HEIGHT OF PALLINIARES IN HANGAR
L4	DIGITAL SWITCH. APRON LIGHTING OVERRIDE CONTROL

**GENERAL NOTES:**

- REFER TO POWER AND SIGNALS DRAWINGS FOR SWITCHED RECEPTACLES.



**LIGHTING PLAN - GROUND FLOOR**  
SCALE: 1 : 50

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6	ISSUED FOR ADDENDUM 8	2024-10-07
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**Issues**

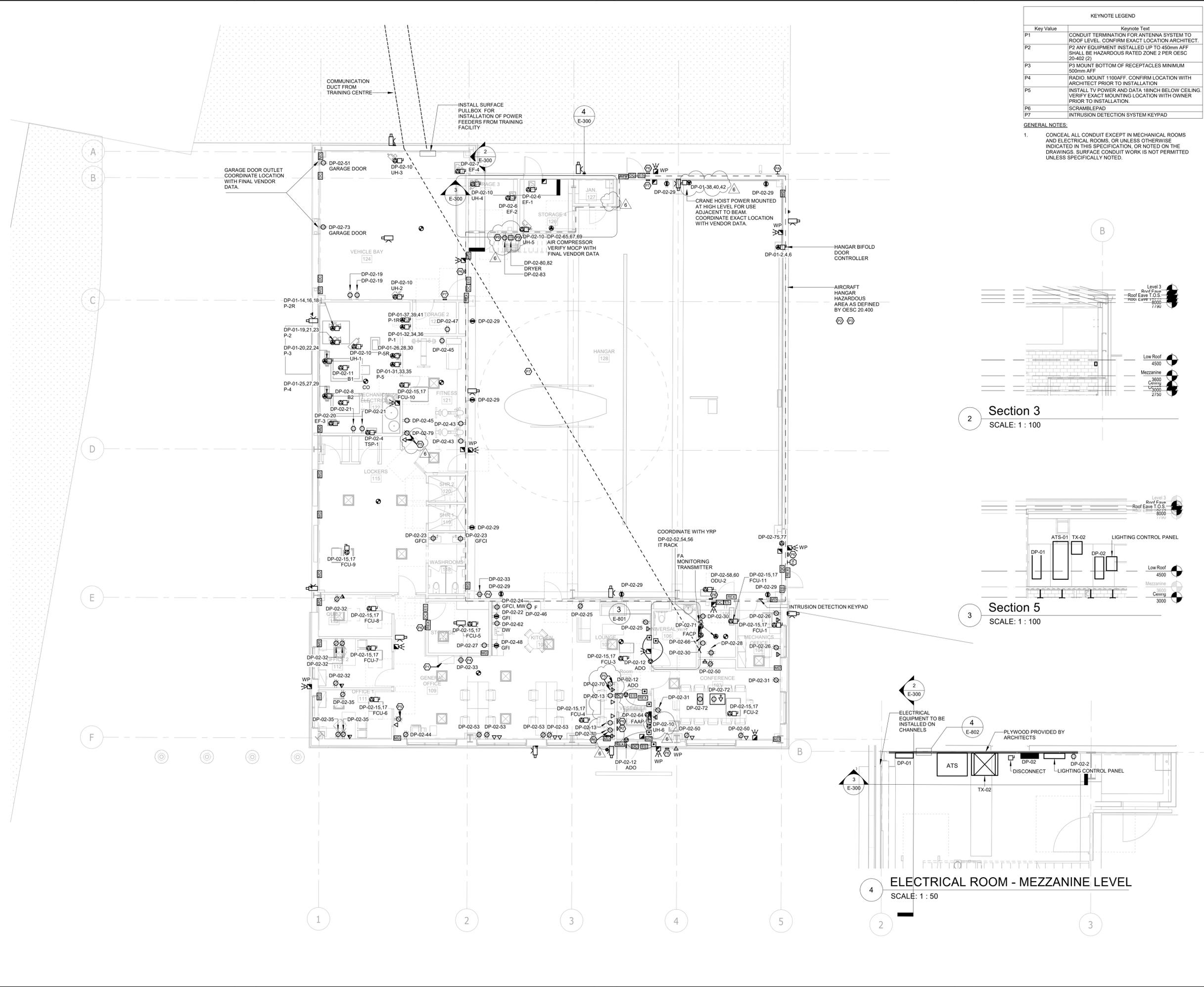
All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: ZK  
Checked by: AO  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated

Sheet  
Title:  
**LIGHTING NEW WORK -  
GROUND FLOOR**

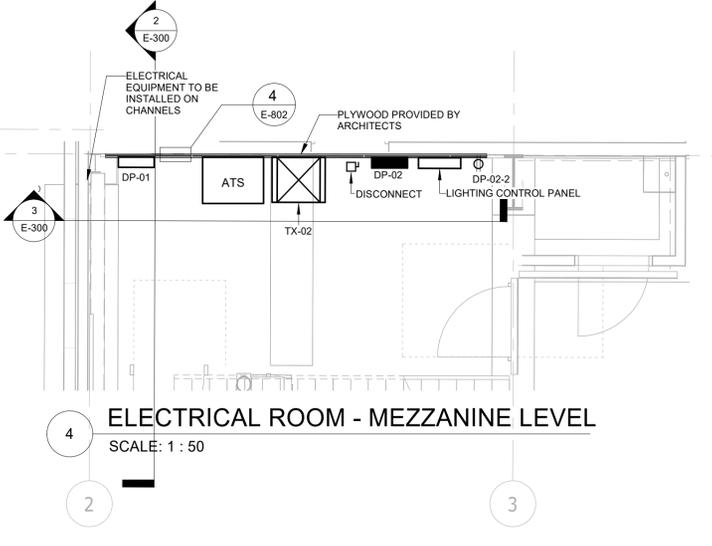
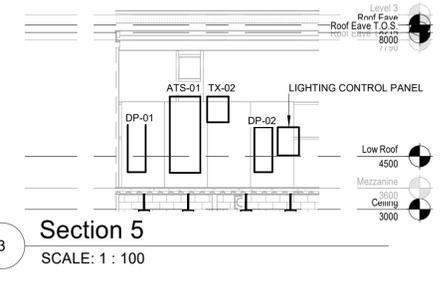
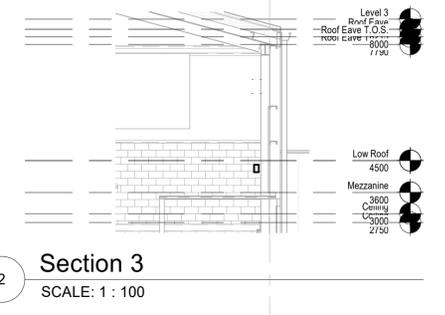
Drawing  
No:  
**E-200**



KEYNOTE LEGEND	
Key Value	Keynote Text
P1	CONDUIT TERMINATION FOR ANTENNA SYSTEM TO ROOF LEVEL. CONFIRM EXACT LOCATION ARCHITECT.
P2	P2 ANY EQUIPMENT INSTALLED UP TO 450mm AFF SHALL BE HAZARDOUS RATED ZONE 2 PER OESC 20-402 (2)
P3	P3 MOUNT BOTTOM OF RECEPTACLES MINIMUM 500mm AFF
P4	RADIO MOUNT 1100AFF. CONFIRM LOCATION WITH ARCHITECT PRIOR TO INSTALLATION
P5	INSTALL TV POWER AND DATA 18INCH BELOW CEILING. VERIFY EXACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.
P6	SCRAMBLEPAD
P7	INTRUSION DETECTION SYSTEM KEYPAD

GENERAL NOTES:

- CONCEAL ALL CONDUIT EXCEPT IN MECHANICAL ROOMS AND ELECTRICAL ROOMS, OR UNLESS OTHERWISE INDICATED IN THIS SPECIFICATION, OR NOTED ON THE DRAWINGS. SURFACE CONDUIT WORK IS NOT PERMITTED UNLESS SPECIFICALLY NOTED.



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Checked by: AO  
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Scale: As indicated

Sheet Title:  
**POWER AND SYSTEMS NEW WORK - GROUND FLOOR**

Drawing No:  
**E-300**





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### Issues

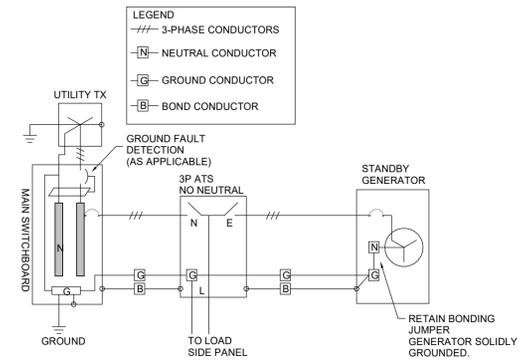
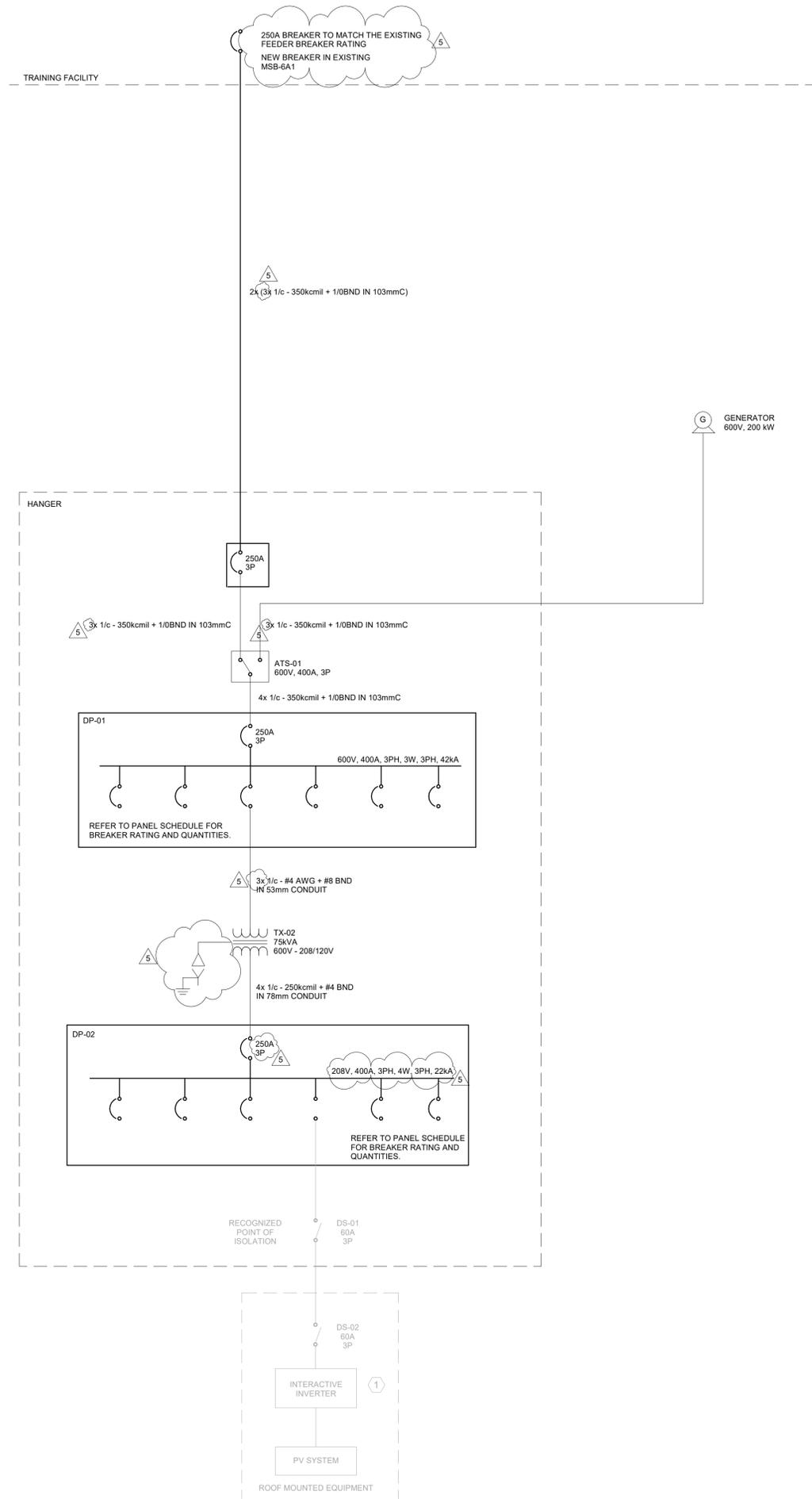
All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

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Project No: TT-24-005

Sheet  
Title:  
**ELECTRICAL SINGLE  
LINE DIAGRAM**

Drawing  
No:  
**E-700**

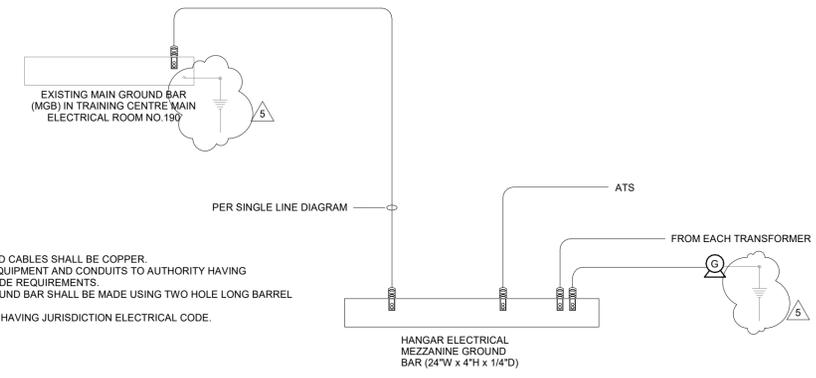


NOTES:  
1. BOND CONDUCTOR TO BE SIZED IN ACCORDANCE WITH OESC TABLE 16.

4 TRANSFER SWITCH GROUNDING SCHEMATIC  
SCALE: 1 : 50

LOAD TAG	CONDUCTOR SIZE
ODU-1	TBD
DO	3x 1/c - #8
P-3	3x 1/c - #8
P-5	3x 1/c - #12
ASHP-1	3x 1/c - #1
P-2	3x 1/c - #8
P-1	3x 1/c - #10
P-2R	3x 1/c - #8
P-1R	3x 1/c - #10
P-4	3x 1/c - #12
P-5R	3x 1/c - #12

NOTES:  
1. 600V CABLE SIZES WHERE NOT SHOWN ON SINGLE LINE DIAGRAM.  
2. CABLE REQUIREMENTS TO BE CONFIRMED WITH EQUIPMENT REQUIREMENTS.



LEGEND:  
MGB - MAIN GROUND BAR  
GROUNDING RISER NOTES:  
1. REFER TO SECTION 26 05 26.  
2. ALL GROUND BARS AND GROUND CABLES SHALL BE COPPER.  
3. PROVIDE ALL GROUNDING TO EQUIPMENT AND CONDUITS TO AUTHORITY HAVING JURISDICTION'S ELECTRICAL CODE REQUIREMENTS.  
4. ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING TWO HOLE LONG BARREL COMPRESSION LUGS.  
5. WIRE SIZES AS PER AUTHORITY HAVING JURISDICTION ELECTRICAL CODE.

2 Grounding Riser  
SCALE: N.T.S.



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### Issues

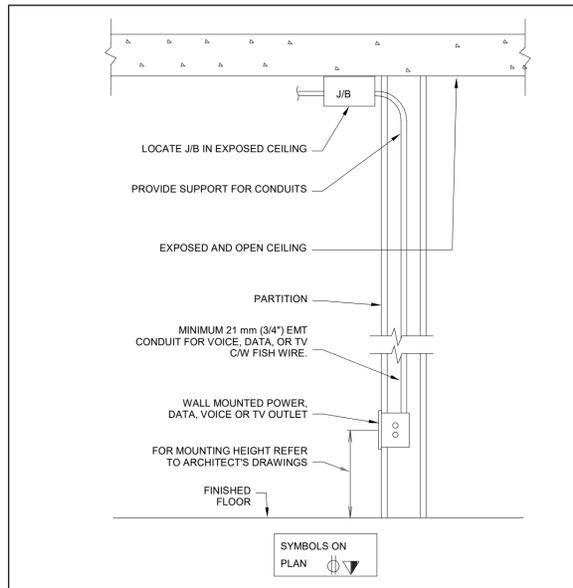
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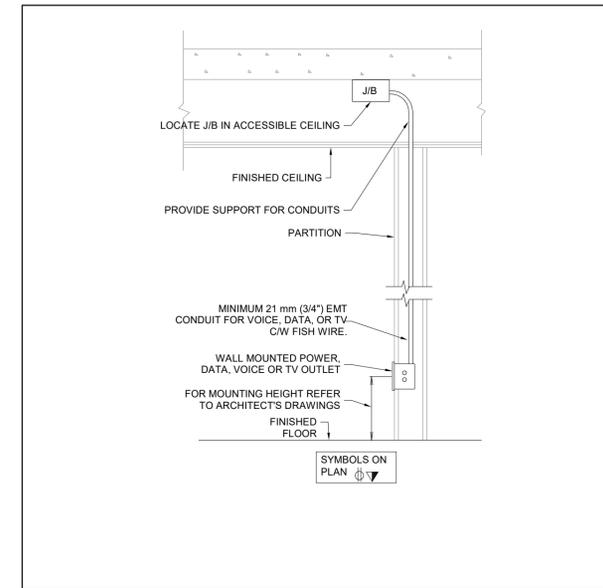
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Title:  
**ELECTRICAL DETAILS**

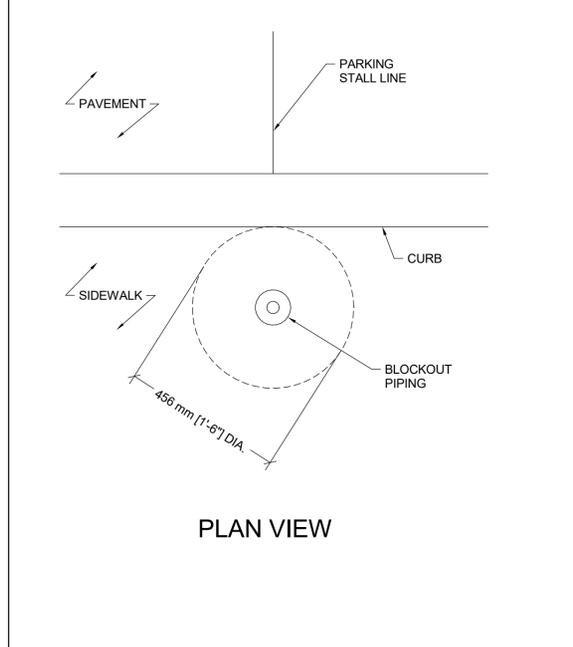
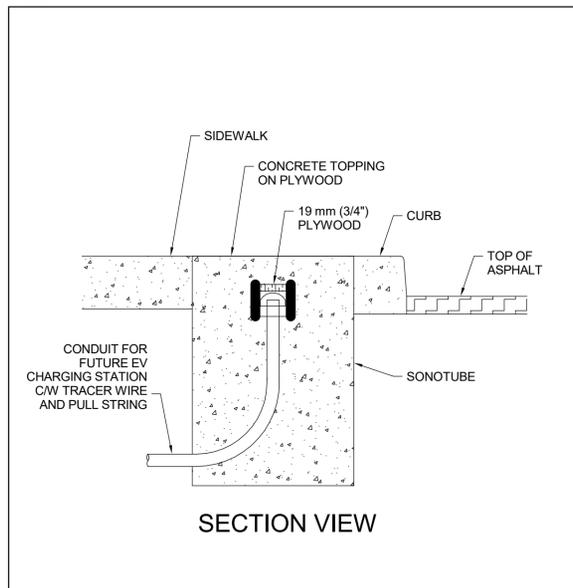
Drawing  
No:  
**E-800**



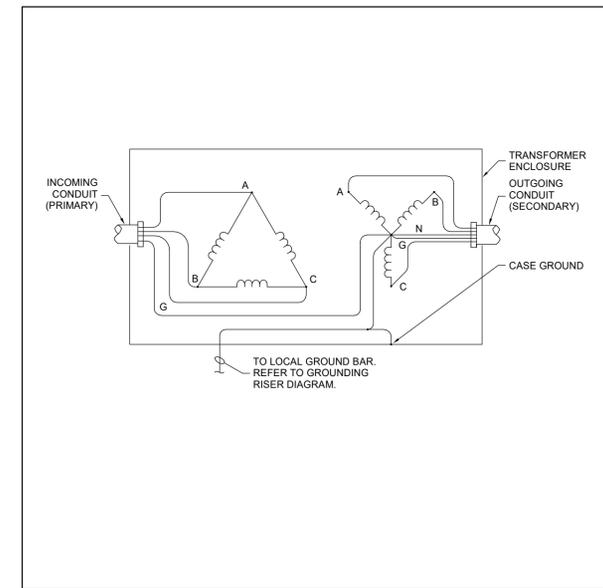
**4 Wall Mounted Outlet Box Wall Recessed**  
SCALE: N.T.S.



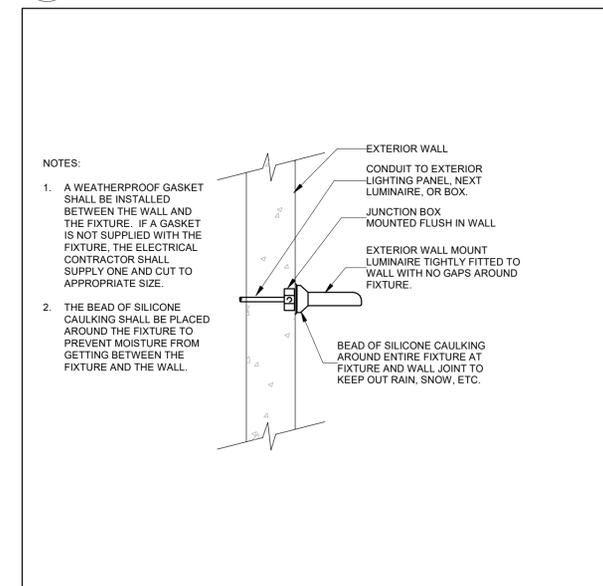
**2 Wall Mounted Outlet Box Wall Recessed Ceiling**  
SCALE: N.T.S.



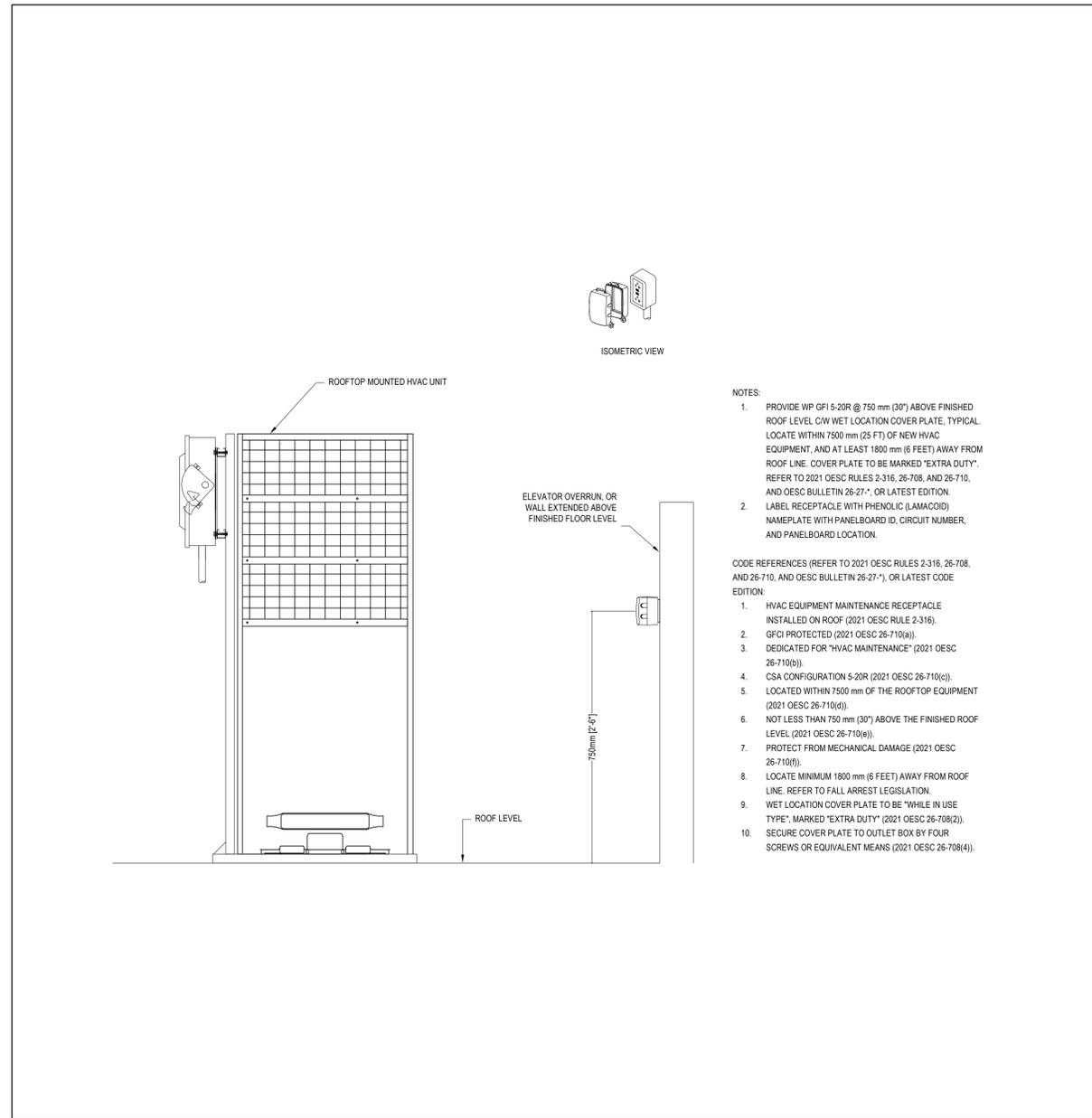
**1 Future EV Charging Station Pedestal Rough-In**  
SCALE: 1 : 10



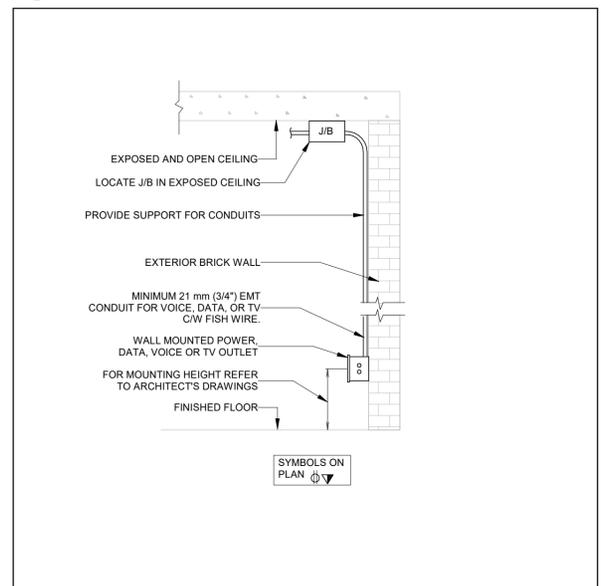
**8 TRANSFORMER GROUNDING**  
SCALE: 1 : 50



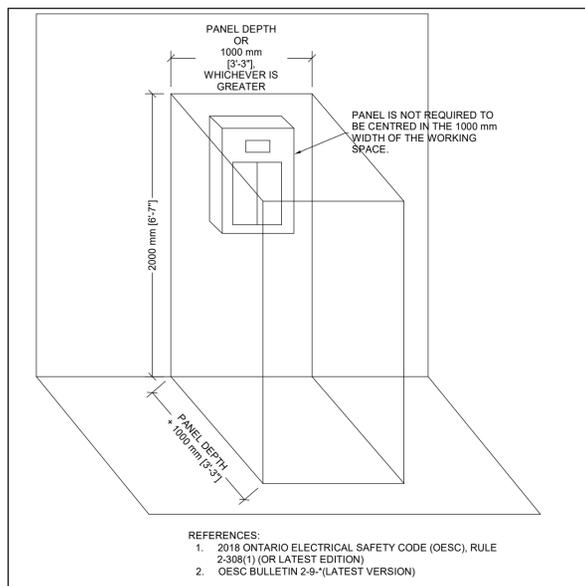
**7 Sealing of Wall Mounted Exterior Luminaires**  
SCALE: N.T.S.



**3 MAINTENANCE RECEPTACLE ROOF MOUNTED HVAC EQUIPMENT**  
SCALE: N.T.S.



**6 WALL MOUNTED OUTLET BOX (SURFACE)**  
SCALE: N.T.S.



**5 CLEAR SPACE AROUND PANELBOARDS**  
SCALE: N.T.S.

- NOTES:
1. PROVIDE WP CFI 5-20R @ 750 mm (30") ABOVE FINISHED ROOF LEVEL C/W WET LOCATION COVER PLATE, TYPICAL. LOCATE WITHIN 7500 mm (25 FT) OF NEW HVAC EQUIPMENT, AND AT LEAST 1800 mm (6 FEET) AWAY FROM ROOF LINE. COVER PLATE TO BE MARKED "EXTRA DUTY". REFER TO 2021 OESC RULES 2-316, 26-708, AND 26-710, AND OESC BULLETIN 26-27-1, OR LATEST EDITION.
  2. LABEL RECEPTACLE WITH PHENOLIC (LAMACOID) NAMEPLATE WITH PANELBOARD ID, CIRCUIT NUMBER, AND PANELBOARD LOCATION.
- CODE REFERENCES (REFER TO 2021 OESC RULES 2-316, 26-708, AND 26-710, AND OESC BULLETIN 26-27-1), OR LATEST CODE EDITION:
1. HVAC EQUIPMENT MAINTENANCE RECEPTACLE INSTALLED ON ROOF (2021 OESC RULE 2-316).
  2. GFCI PROTECTED (2021 OESC 26-710(a)).
  3. DEDICATED FOR "HVAC MAINTENANCE" (2021 OESC 26-710(b)).
  4. CSA CONFIGURATION 5-20R (2021 OESC 26-710(c)).
  5. LOCATED WITHIN 7500 mm OF THE ROOFTOP EQUIPMENT (2021 OESC 26-710(d)).
  6. NOT LESS THAN 750 mm (30") ABOVE THE FINISHED ROOF LEVEL (2021 OESC 26-710(e)).
  7. PROTECT FROM MECHANICAL DAMAGE (2021 OESC 26-710(f)).
  8. LOCATE MINIMUM 1800 mm (6 FEET) AWAY FROM ROOF LINE. REFER TO FALL ARREST LEGISLATION.
  9. WET LOCATION COVER PLATE TO BE "WHILE IN USE TYPE", MARKED "EXTRA DUTY" (2021 OESC 26-708(2)).
  10. SECURE COVER PLATE TO OUTLET BOX BY FOUR SCREWS OR EQUIVALENT MEANS (2021 OESC 26-708(4)).

- REFERENCES:
1. 2018 ONTARIO ELECTRICAL SAFETY CODE (OESC), RULE 2-308(1) (OR LATEST EDITION)
  2. OESC BULLETIN 2-9-"(LATEST VERSION)



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### Issues

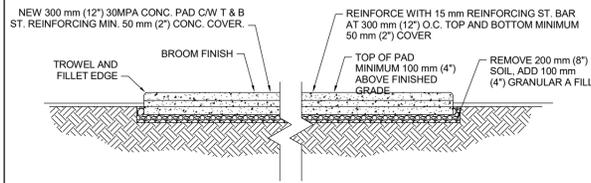
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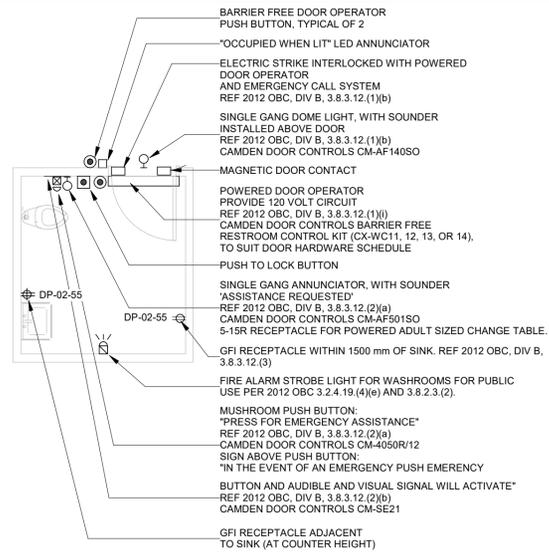
Sheet  
Title:  
**ELECTRICAL DETAILS**

Drawing  
No:  
**E-801**



### 4 Cast-In-Place Concrete Generator Pad

SCALE: 1 : 50



UNIVERSAL RESTROOM "EMERGENCY ASSISTANCE" SIGNAL ACTIVATION, ANNUNCIATION AND SUPPORTING SIGNAGE SHALL BE CAMDEN DOOR CONTROLS MODEL CX-WEC10/CX-WEC-11 UNIVERSAL RESTROOM CONTROL KIT.

KIT SHALL INCLUDE:

- CM-4050R/12 SINGLE GANG MUSHROOM PUSH BUTTON, 1/4" THICK BRUSHED ALUMINUM FACEPLATE AND RED BUTTON, MAINTAINED PUSH/PULL OPERATION WITH "PRESS FOR EMERGENCY ASSISTANCE" PERMANENTLY LASER ETCHED ON THE FACEPLATE.
- CM-AF5050 SINGLE GANG LED ANNUNCIATOR WITH SOUNDER, RATED 85 dB AT 100 mm, WEATHER AND VANDAL RESISTANT CONSTRUCTION, BRUSHED STAINLESS STEEL FACEPLATE, WITH "ASSISTANCE REQUIRED" MESSAGE TEXT, THAT IS NOT LEGIBLE UNLESS THE ANNUNCIATOR IS ENERGIZED.
- CM-AF14050 SINGLE GANG DOME LIGHT WITH PIEZO SOUNDER, RATED 93 dB AT 1 METRE, BRUSHED STAINLESS STEEL FACEPLATE AND 24 V INCANDESCENT BULB.
- CM-SE21 SIGN, TO BE LOCATED ABOVE THE ACTIVATION SWITCH, 1.6 mm (1/16"), 381 mm BY 381 mm (15" BY 15"), FIRE RATED EXPANDED PVC WHITE, WITH 25 mm BLACK LETTERING. TEXT SHALL BE: "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE".
- INTERCONNECTED WITH DOOR HARDWARE, INCLUDING DOOR OPERATOR, PUSH TO LOCK BUTTON, ELECTRIC STRIKE, DOOR CONTACT.

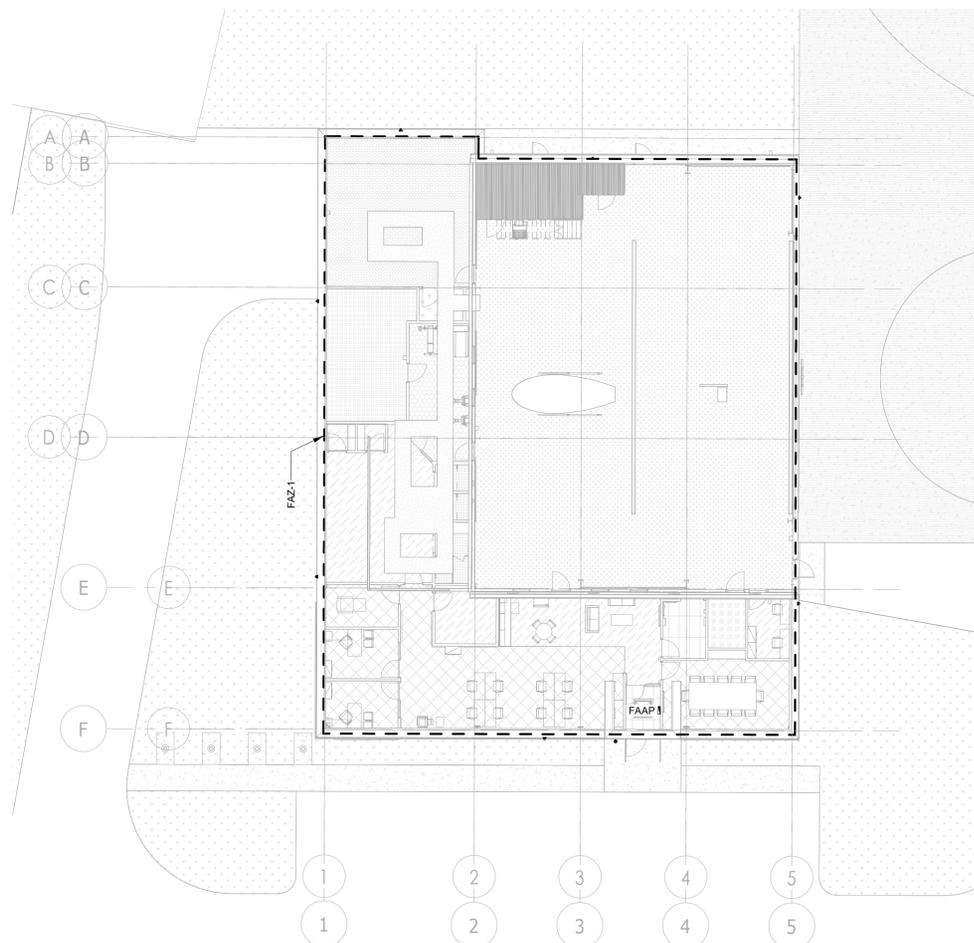
### NOTES:

- CONFIRM EXACT HARDWARE AND ROUGH-IN REQUIREMENTS WITH EMERGENCY CALL SYSTEM VENDOR.
- CONFIRM EXACT EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

28 26 23 - UNIVERSAL WASHROOM DOOR OPERATOR AND EMERGENCY CALL SYSTEM

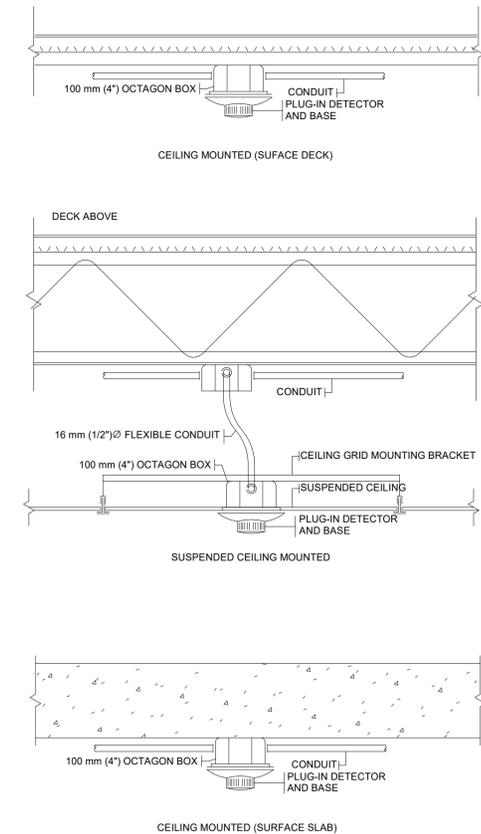
### 3 Universal Washroom Door Operator and Emergency Call System

SCALE: N.T.S.



### 2 FIRE ALARM ZONES

SCALE: N.T.S.



### 1 Typical Smoke Detector Installations

SCALE: N.T.S.



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### MAXIMUM BRANCH WIRING DISTANCE FOR 120 V SYSTEM AT 2% VOLTAGE DROP

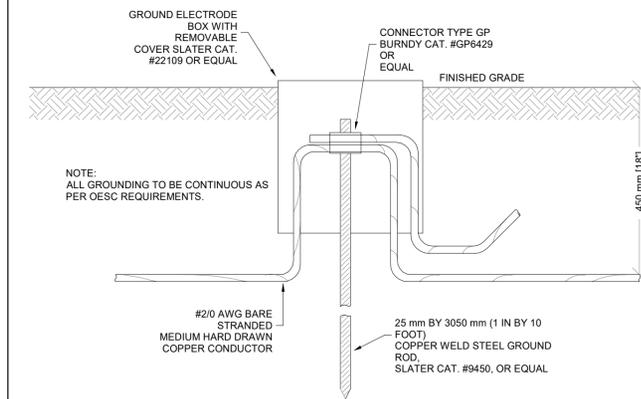
WIRE SIZE	BREAKER SIZE (AMPERES)	MAX. LOAD AT 80% (AMPERES)									
		15	20	30	40	50	60	70	80	100	
NO.12	----	16.8	12.2	-----	-----	-----	-----	-----	-----	-----	-----
NO.10	----	25.9	19.0	12.9	-----	-----	-----	-----	-----	-----	-----
NO.8	----	39.6	30.4	20.5	15.2	-----	-----	-----	-----	-----	-----
NO.6	----	62.4	47.2	32.0	23.6	19.0	16.0	-----	-----	-----	-----
NO.4	----	99.0	73.1	50.2	38.1	30.4	24.3	21.3	19.0	-----	-----
NO.2	----	-----	114.3	77.2	57.9	47.2	38.8	33.5	28.9	22.8	-----
NO.1	----	-----	-----	96.0	73.1	57.9	47.2	42.6	36.5	27.4	-----
NO.1/0	----	-----	-----	-----	85.3	68.5	56.3	48.7	41.9	33.5	-----
NO.2/0	----	-----	-----	-----	-----	102.8	80.7	67.0	57.9	50.2	40.3
NO.3/0	----	-----	-----	-----	-----	-----	95.2	79.2	68.5	59.4	47.2
NO.4/0	----	-----	-----	-----	-----	-----	-----	92.9	79.2	70.1	56.3
250 MCM	----	-----	-----	-----	-----	-----	-----	-----	102.8	86.8	76.2
300 MCM	----	-----	-----	-----	-----	-----	-----	-----	-----	100.5	88.3

NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.

### MAXIMUM BRANCH WIRING DISTANCE FOR 120 V SYSTEM AT 3% VOLTAGE DROP

WIRE SIZE	BREAKER SIZE (AMPERES)	MAX. LOAD AT 80% (AMPERES)									
		15	20	30	40	50	60	70	80	100	
NO.12	----	24.4	18.3	-----	-----	-----	-----	-----	-----	-----	-----
NO.10	----	38.1	29.0	19.1	-----	-----	-----	-----	-----	-----	-----
NO.8	----	59.4	44.2	30.5	22.9	-----	-----	-----	-----	-----	-----
NO.6	----	91.4	70.1	47.2	35.1	28.2	23.6	-----	-----	-----	-----
NO.4	----	-----	109.7	73.2	54.9	42.7	38.1	32.0	27.4	-----	-----
NO.2	----	-----	-----	114.3	85.3	68.6	57.9	50.3	41.1	35.0	-----
NO.1	----	-----	-----	-----	103.6	85.3	73.2	61.0	54.9	43.4	-----
NO.1/0	----	-----	-----	-----	-----	128.0	102.9	85.3	73.2	64.0	48.8
NO.2/0	----	-----	-----	-----	-----	-----	121.9	100.6	86.9	74.7	60.9
NO.3/0	----	-----	-----	-----	-----	-----	-----	118.1	102.1	88.4	70.1
NO.4/0	----	-----	-----	-----	-----	-----	-----	-----	120.4	102.9	83.8
250 MCM	----	-----	-----	-----	-----	-----	-----	-----	-----	114.3	91.4
300 MCM	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	103.6

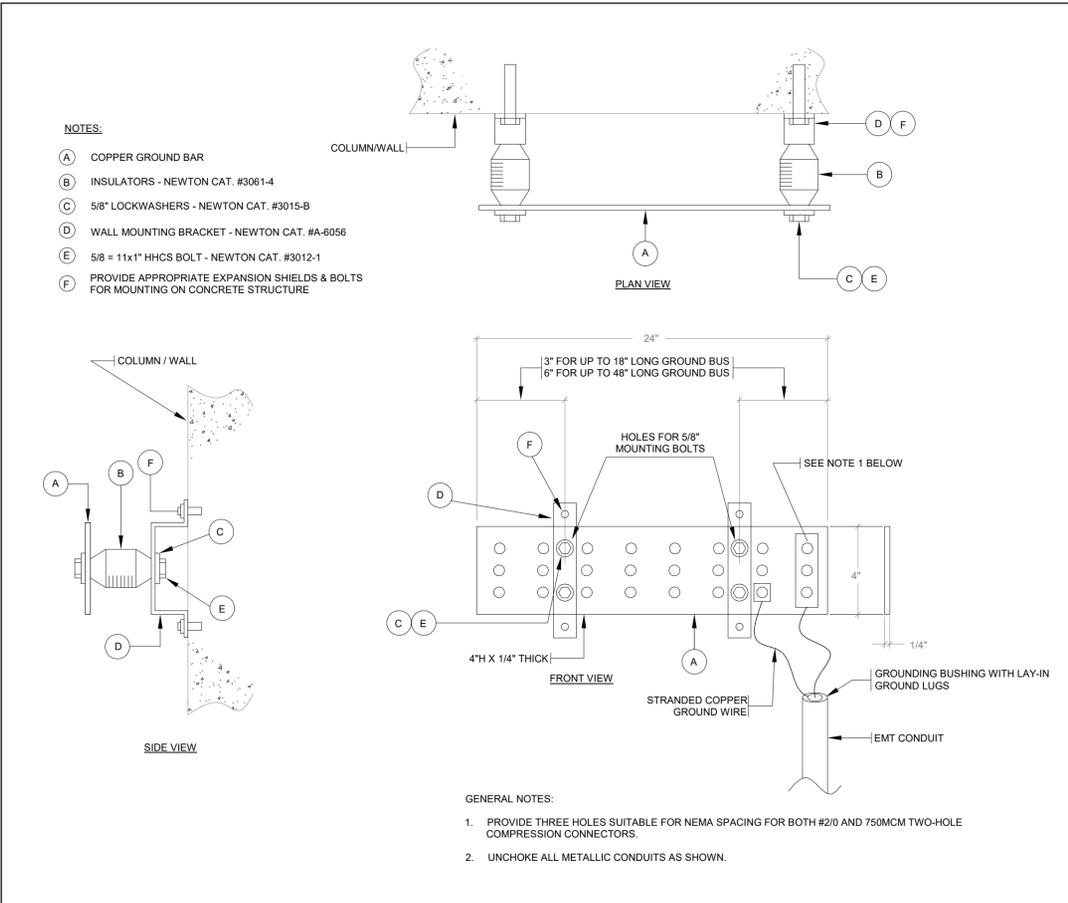
NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.



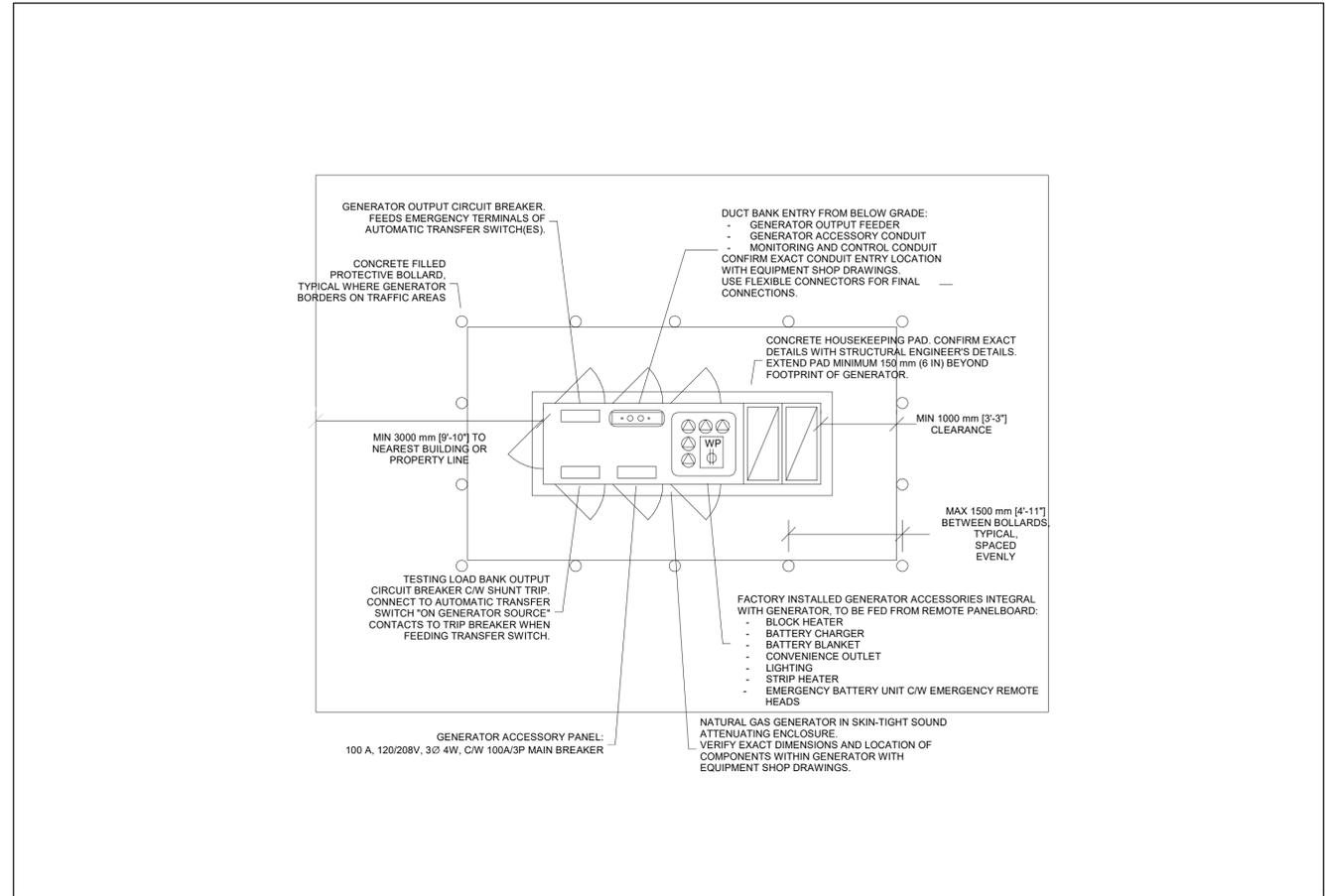
1 Max Branch Wiring Distance for 120 V System at 2% Voltage Drop  
SCALE:N.T.S.

2 Max Branch Wiring Distance for 120 V System at 3% Voltage Drop  
SCALE:N.T.S.

3 Ground Rod  
SCALE:N.T.S.



4 Grounding Bar Detail  
SCALE:N.T.S.



5 Skintight Gas Generator Plan  
SCALE:N.T.S.

NO.	ISSUED	DATE
2	ISSUED FOR ADDENDUM 6	2024-09-30
1	ISSUED FOR TENDER	2024-09-09

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: Author  
Checked by: Checker  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.

Sheet  
Title:  
**ELECTRICAL DETAILS**

Drawing  
No.  
**E-802**

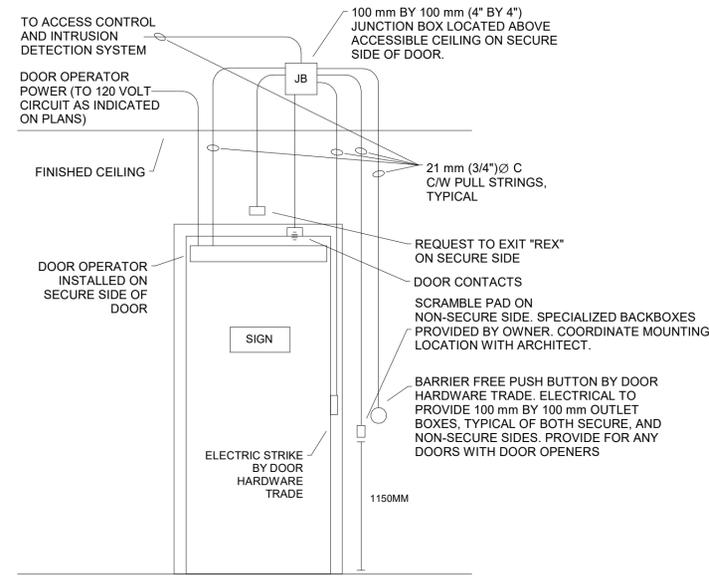




## YORK REGIONAL POLICE HELICOPTER HANGAR

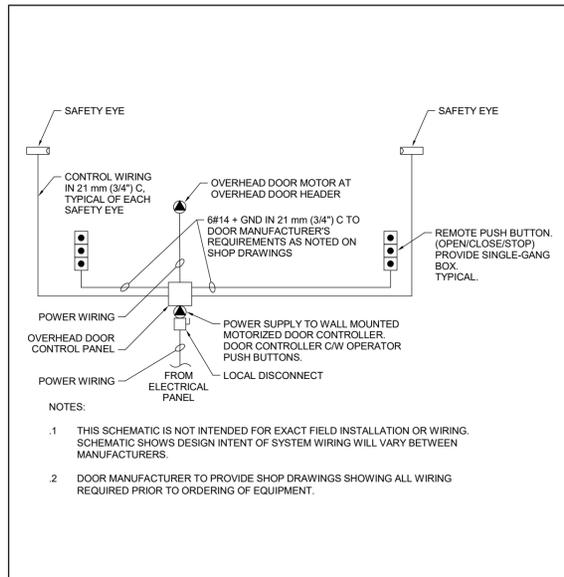
350 GARFIELD WRIGHT  
BOULEVARD  
TOWN OF EAST GWILLIMBURY

Key  
Plan



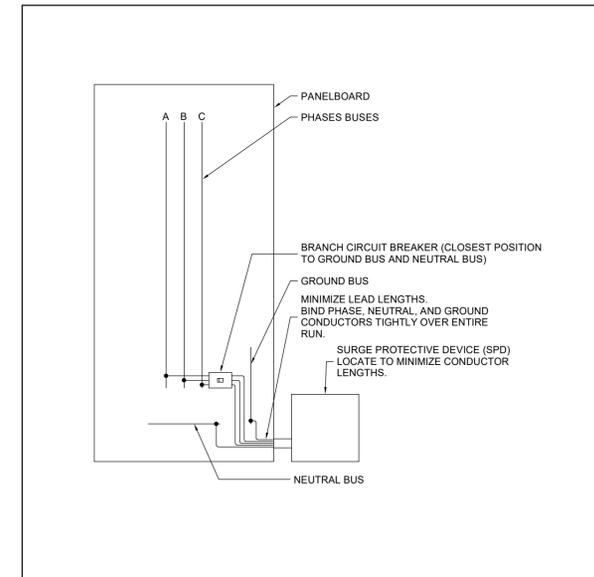
**NOTES:**

1. REFER TO DETAIL "MOUNTING HEIGHTS FOR ACCESSIBLE DESIGN" FOR EXACT MOUNTING HEIGHTS OF DEVICES AND APPLICABLE CODE REFERENCES.
2. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT SCHEDULE OF DEVICES AT DOOR. COORDINATE EXACT ROUGH-IN DETAILS WITH DOOR HARDWARE TRADE.
3. INTERLOCK OPERATION OF DOOR OPERATOR WITH SCRAMBLE PAD ON THE NON-SECURE SIDE.



**2 Wiring Diagram for Overhead Doors**

SCALE: 1 : 50

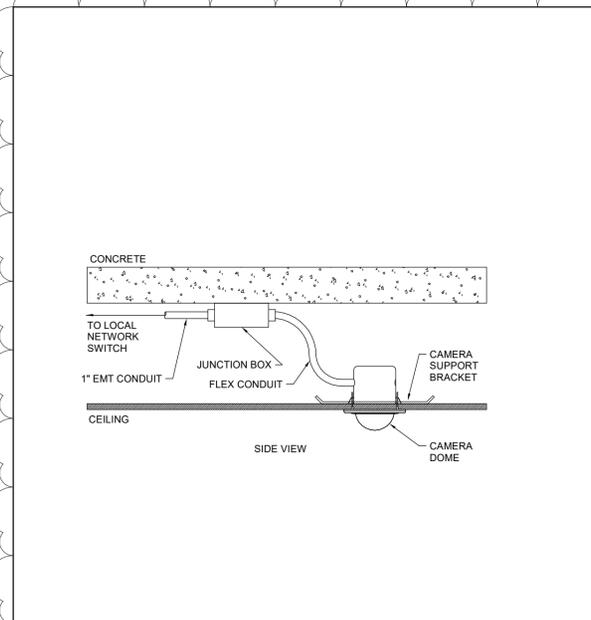


**4 EXTERNALLY MOUNTED SURGE PROTECTION**

SCALE: 1 : 50

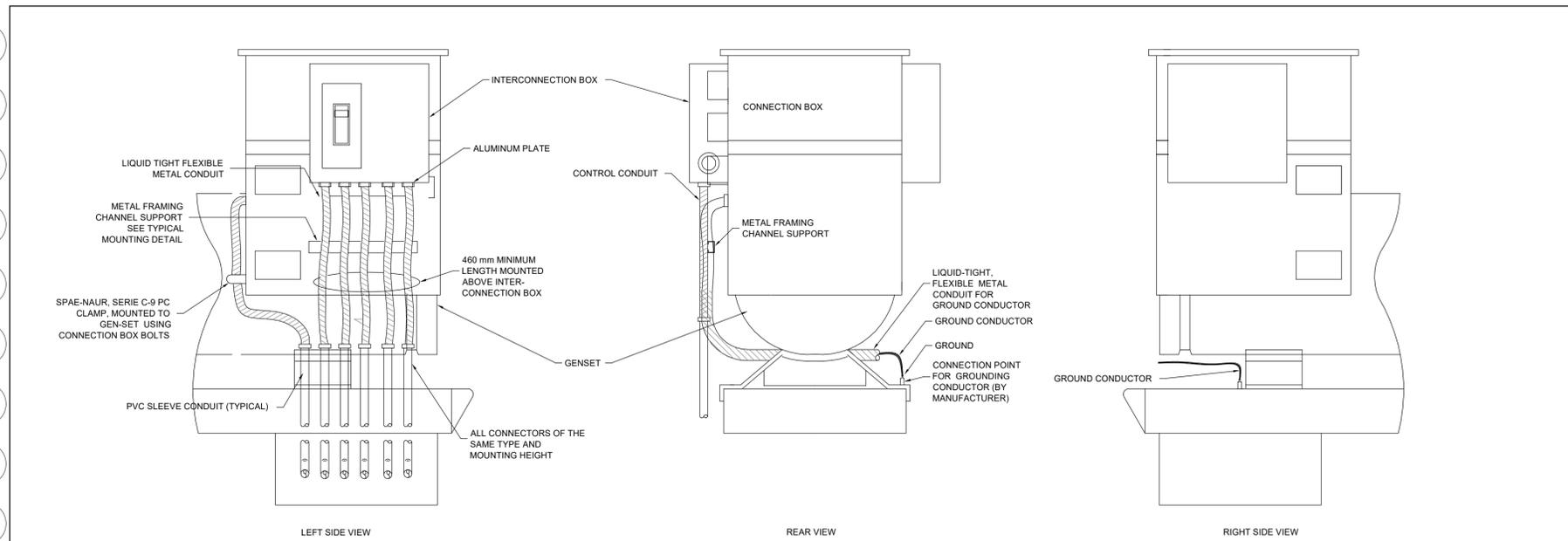
**3 Access Control Rough-In**

SCALE: 1 : 1



**5 CEILING MOUNTED CAMERA**

SCALE: 1 : 50



**1 ENGINE GENERATOR BOTTOM FEED**

SCALE: N.T.S.

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 8	2024-10-07
2	ISSUED FOR ADDENDUM 6	2024-09-30
1	ISSUED FOR ADDENDUM 3	2024-09-23

**Issues**

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: Author  
Checked by: Checker  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated

Sheet  
Title:  
**ELECTRICAL DETAILS**

Drawing  
No:  
**E-805**



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARG.COM

## YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT  
BOULEVARD  
TOWN OF EAST GWILLIMBURY

Key  
Plan

NO.	ISSUED FOR	ISSUED	DATE
1	ISSUED FOR ADDENDUM 8		2024-10-07

### Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: Author  
Checked by: Checker  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.

Sheet  
Title:  
**ELECTRICAL DETAILS -  
TRAINING FACILITY**

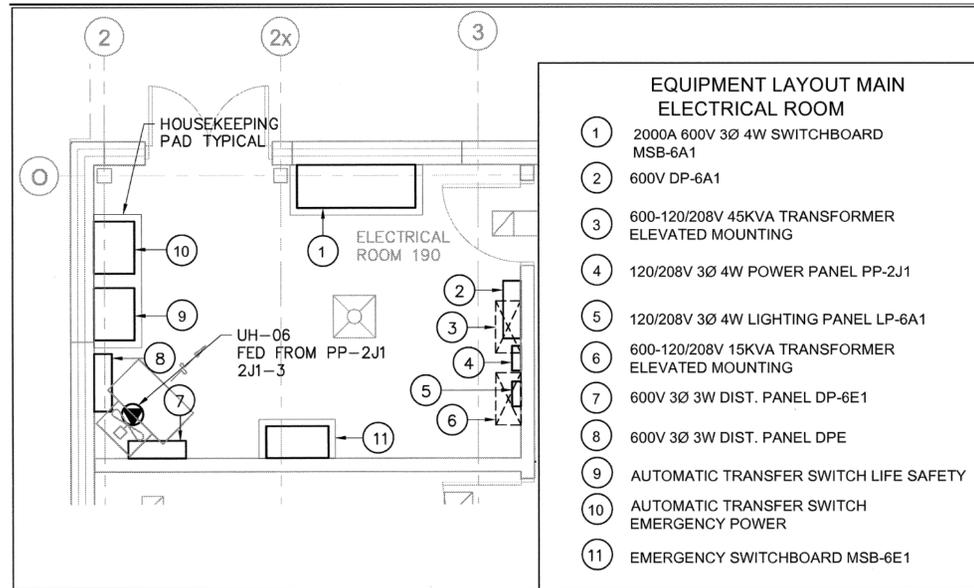
Drawing  
No:  
**E-806**



2 MAIN ELECTRICAL ROOM - EXTERIOR VIEW1  
SCALE:N.T.S.



1 MAIN ELECTRICAL ROOM - MSB-6A1  
SCALE:N.T.S.



3 MAIN ELECTRICAL ROOM LAYOUT  
SCALE:N.T.S.



