

1.	WHERE DIMENSIONS ARE PROVIDED IN METRIC AND IN IMPERIAL UNITS, METRIC DIMENSIONS GOVERN.
2.	EMERGENCY POWER FOR LIGHTING AND FIRE ALARM: MINIMUM 30 MINUTES (2012 CBC 3.2.7.4.1)(i)(ii)(iv) 30 MIN FOR ANY OTHER BUILDING.)
3.	FIRE ALARM INSTALLATION IN ACCORDANCE WITH CANULC-S524-14.
4.	VERIFY FIRE ALARM SYSTEM IN ACCORDANCE WITH CANULC-S537-13.
5.	COMMISSION INTERCONNECTED LIFE SAFETY SYSTEMS IN ACCORDANCE WITH CANULC-S1001-11.
6.	PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH SECTION 26 05 48. THIS IS A POST-DISASTER BUILDING. SEISMIC RESTRAINTS ARE REQUIRED PER 2012 CBC 4.1.8.18.(1) AND ARE NOT EXEMPT PER 2012 CBC 4.1.8.18.(2).
8.	AVIATION OBSTRUCTION LIGHTS: FED FROM PANEL DP-02-42.
9.	FATO LIGHTS ARE FED FROM HELIPORT LIGHTING CONTROLLER. PROVIDE 5/C-12AWG-BND.
10.	COORDINATE FINAL LOCATION OF EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
11.	REFER TO AVIATION DRAWINGS FOR DETAILS OF AVIATION RELATED EQUIPMENT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

1. 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).
2. 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.

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350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan

Issues

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:
ELECTRICAL SITE PLAN
CONCESSION 4

Drawing
No. **E-100**

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 PA LUMINAIRES IN HANGAR.
L4	DIGITAL SWITCH. APRON LIGHTING OVERRIDE CONTROL.

GENERAL NOTES:
1. REFER TO POWER AND SIGNALS DRAWINGS FOR SWITCHED RECEPTACLES.

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YORK REGIONAL POLICE
HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
7	ISSUED FOR ADDENDUM 10	2024-10-15
6	ISSUED FOR ADDENDUM 8	2024-10-07
5	ISSUED FOR ADDENDUM 6	2024-09-30
4	ISSUED FOR ADDENDUM 3	2024-09-23
3	ISSUED FOR ADDENDUM 1	2024-09-16
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

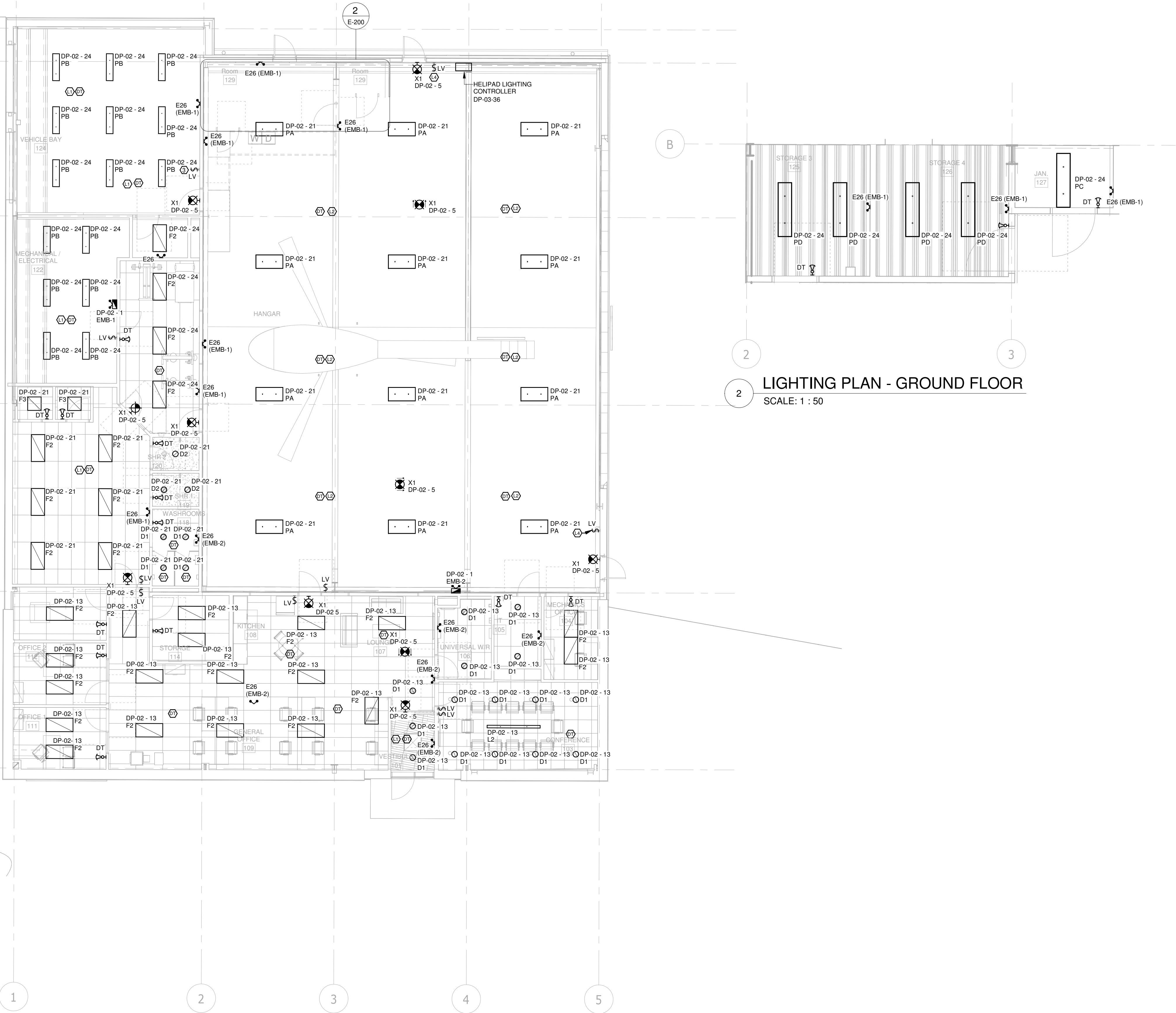
All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: ZK
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Sheet
Title:
LIGHTING NEW WORK -
GROUND FLOOR

Drawing
No.
E-200



350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

[illegible]

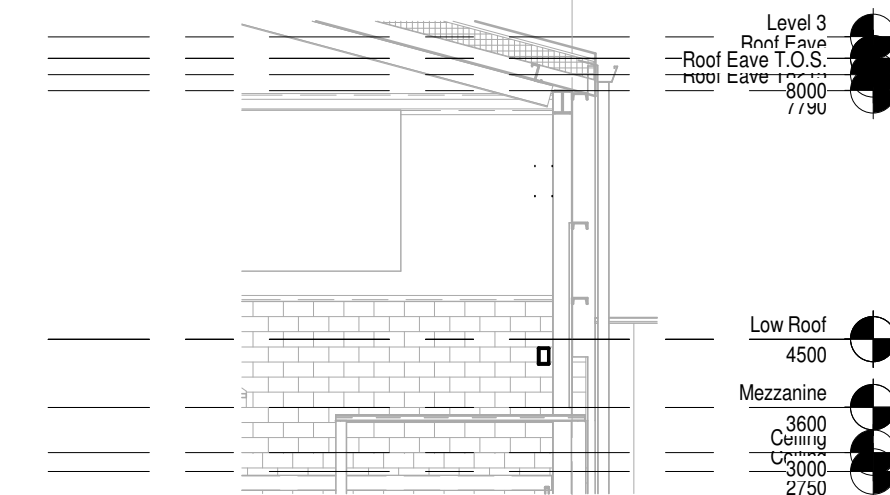
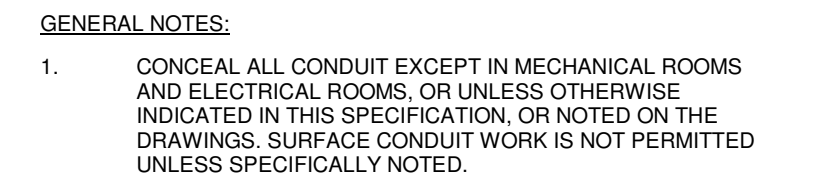
7	ISSUED FOR ADDENDUM 10	2024-10-15
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5	ISSUED FOR ADDENDUM 6	2024-09-30
4	ISSUED FOR ADDENDUM 3	2024-09-23
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2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31
NO.	ISSUED	DATE

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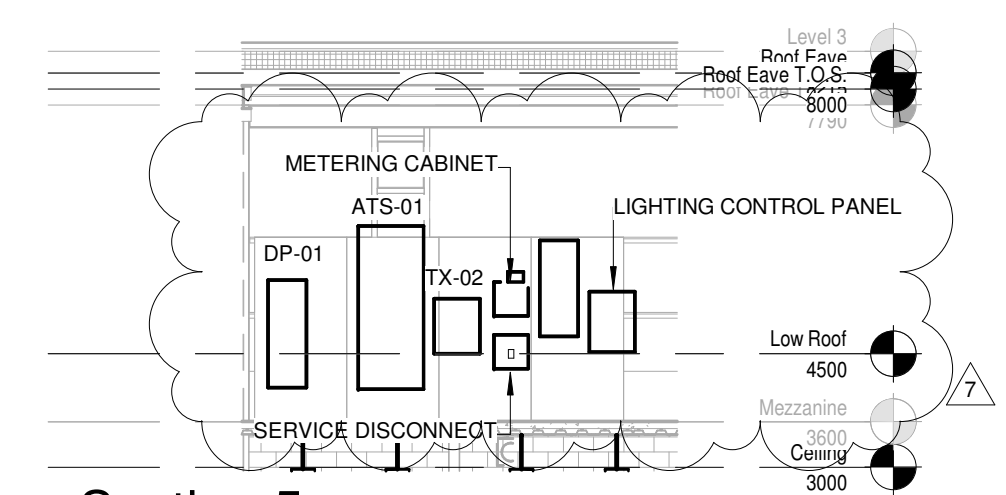
Drawn by: ZK
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: As indicated

POWER AND SYSTEMS NEW WORK - GROUND FLOOR

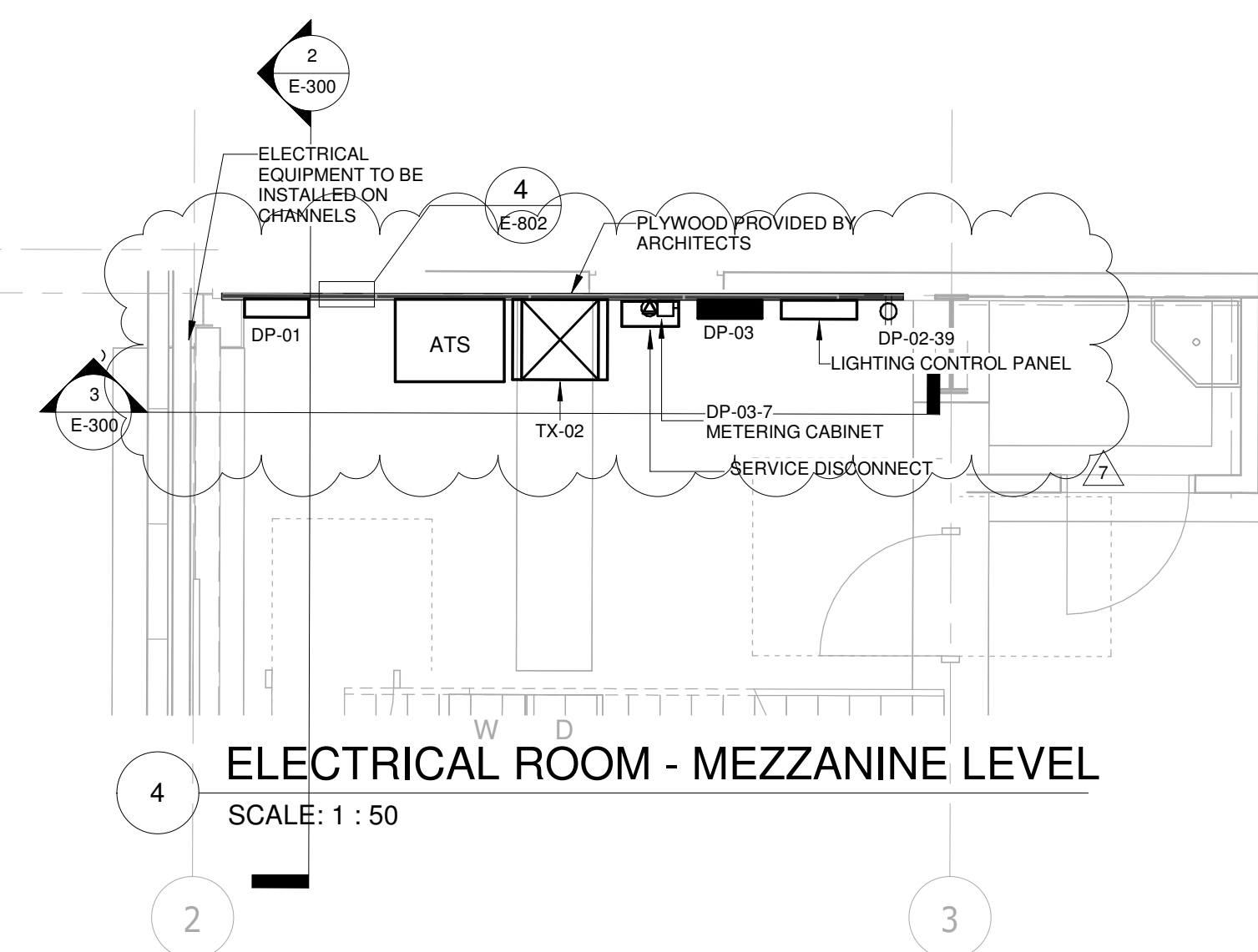
Drawing
No.
E-300



2 Section 3
SCALE: 1 : 100

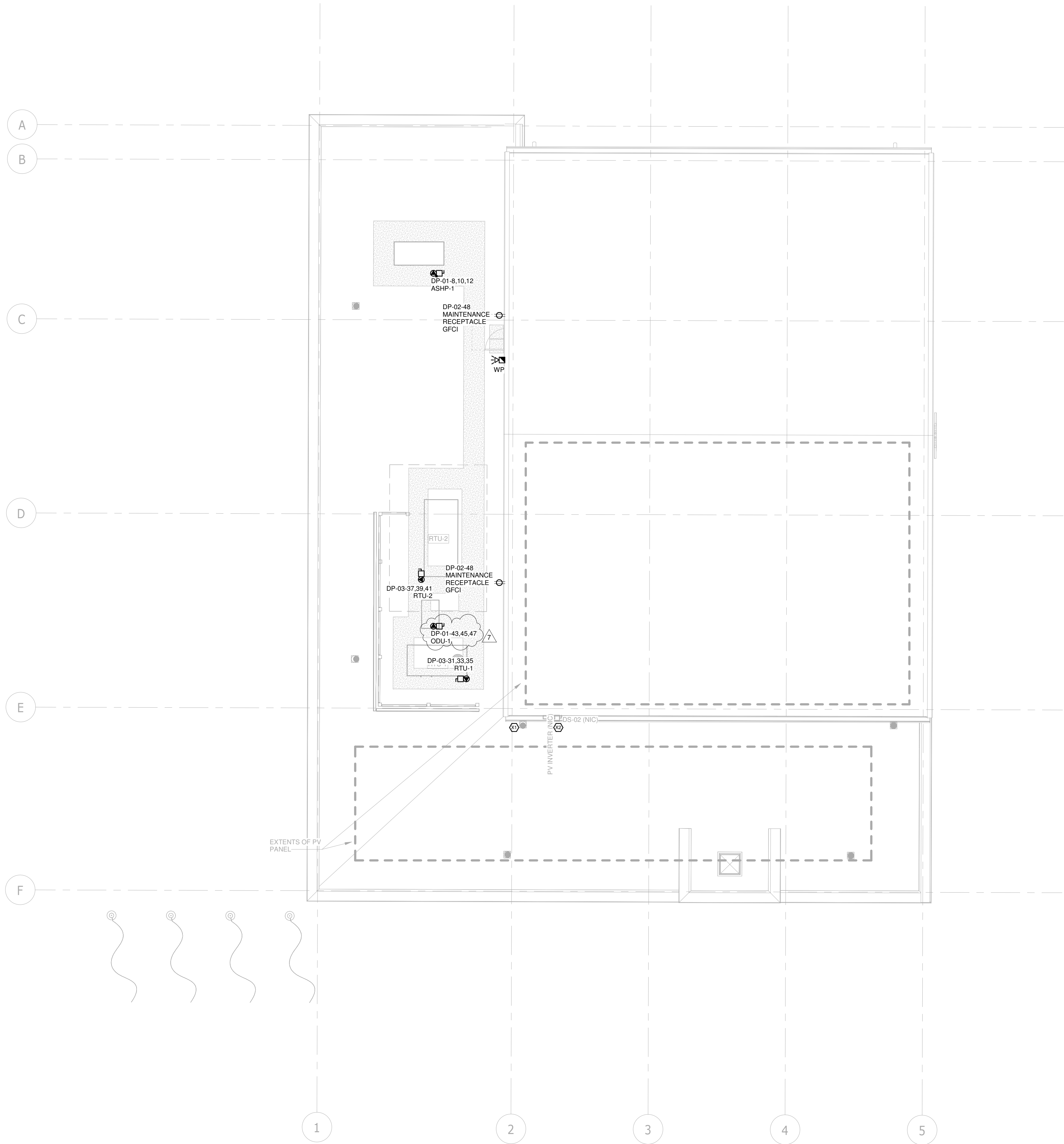


3 Section 5
SCALE: 1 : 100



ELECTRICAL ROOM - MEZZANINE LEVEL

10/15/2024 10:09:39 AM
Autodesk Docs://2402 - YRP Helicopter Hanger/TT-24-005-YRP-QCG ME Model_P24.rvt



KEYNOTE LEGEND	
Key Value	Keynote Text
X1	INSTALL 1 INCH CONDUIT FOR ANTENNA SYSTEM (CONFIRM CONDUIT SIZE AND LOCATION WITH OWNER PRIOR TO INSTALLATION)
X2	INSTALL CONDUIT FOR FUTURE PV SYSTEM.

GENERAL NOTE:
ALL ROOF MOUNTED EQUIPMENT TO BE FED DIRECTLY FROM BELOW.
NO CONDUIT TO BE RUN ALONG ROOF WHERE CAN BE AVOIDED.
CONFIRM WITH ARCHITECT ALL CONDUIT INSTALLATIONS WHICH WILL BE EXPOSED PRIOR TO INSTALLATION.

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YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
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Issues

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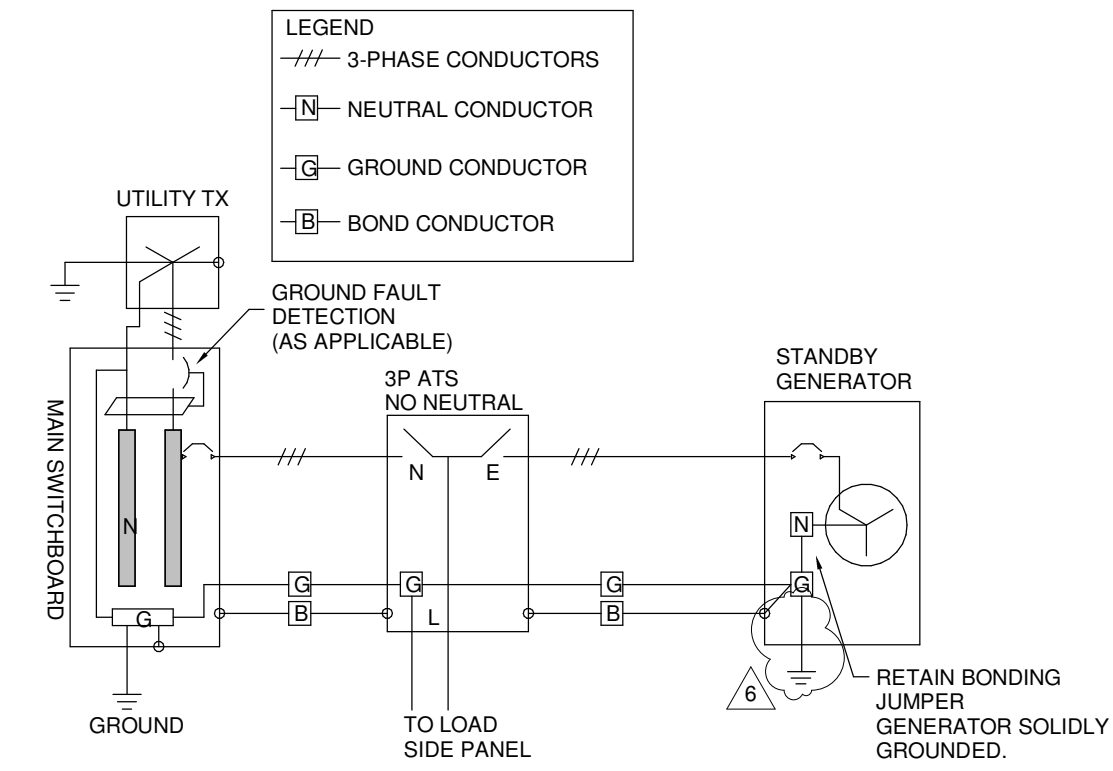
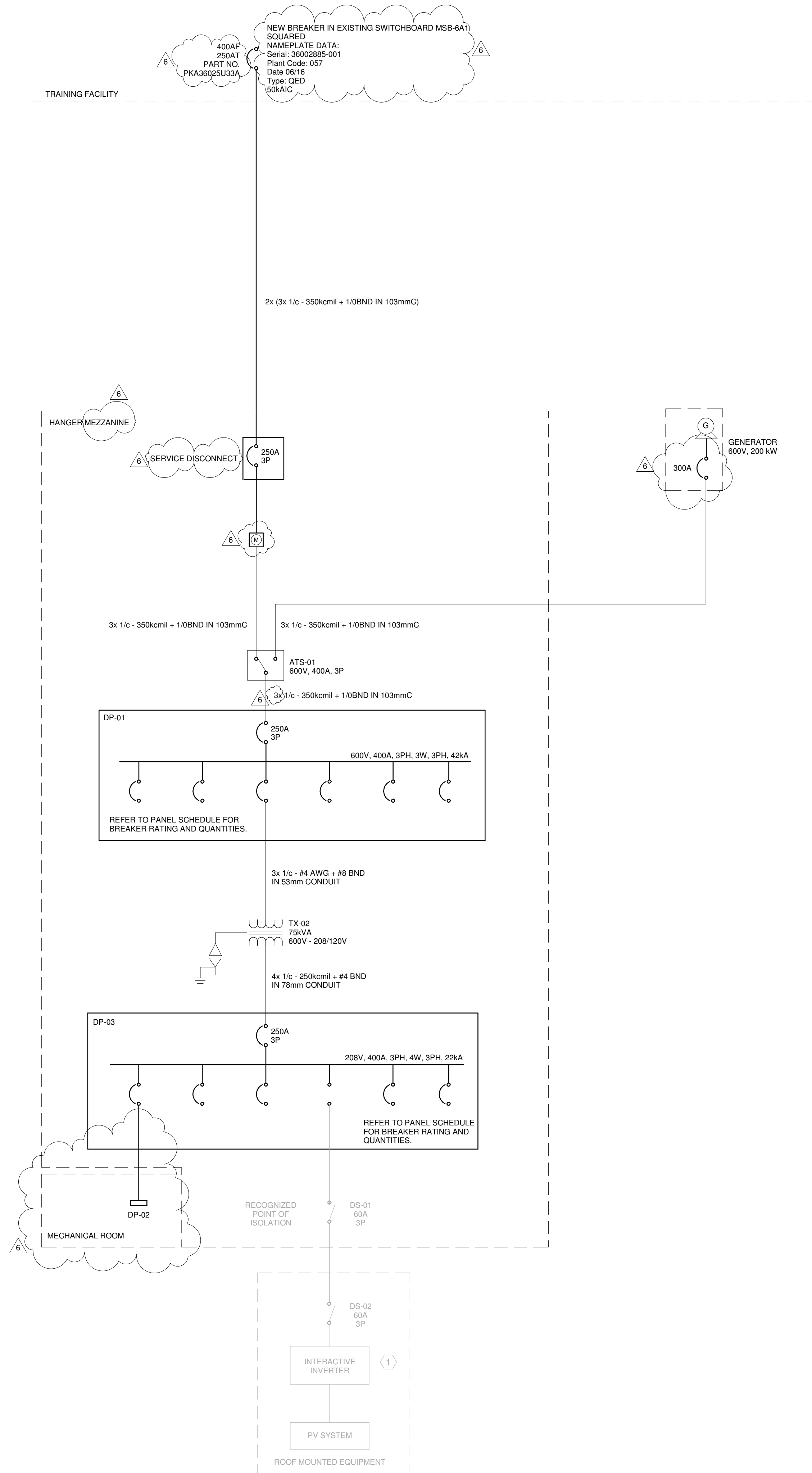
Do not scale drawings

Drawn by: ZK
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: 1 : 100

Sheet
Title:
**POWER AND SYSTEMS
NEW WORK - ROOF
PLAN**

Drawing
No:
E-301

10/15/2024 10:09:43 AM
Autodesk Docs://2402 - YRP Helicopter Hangar/TT-24-005-YRP-QCG ME Model_P24.rvt



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

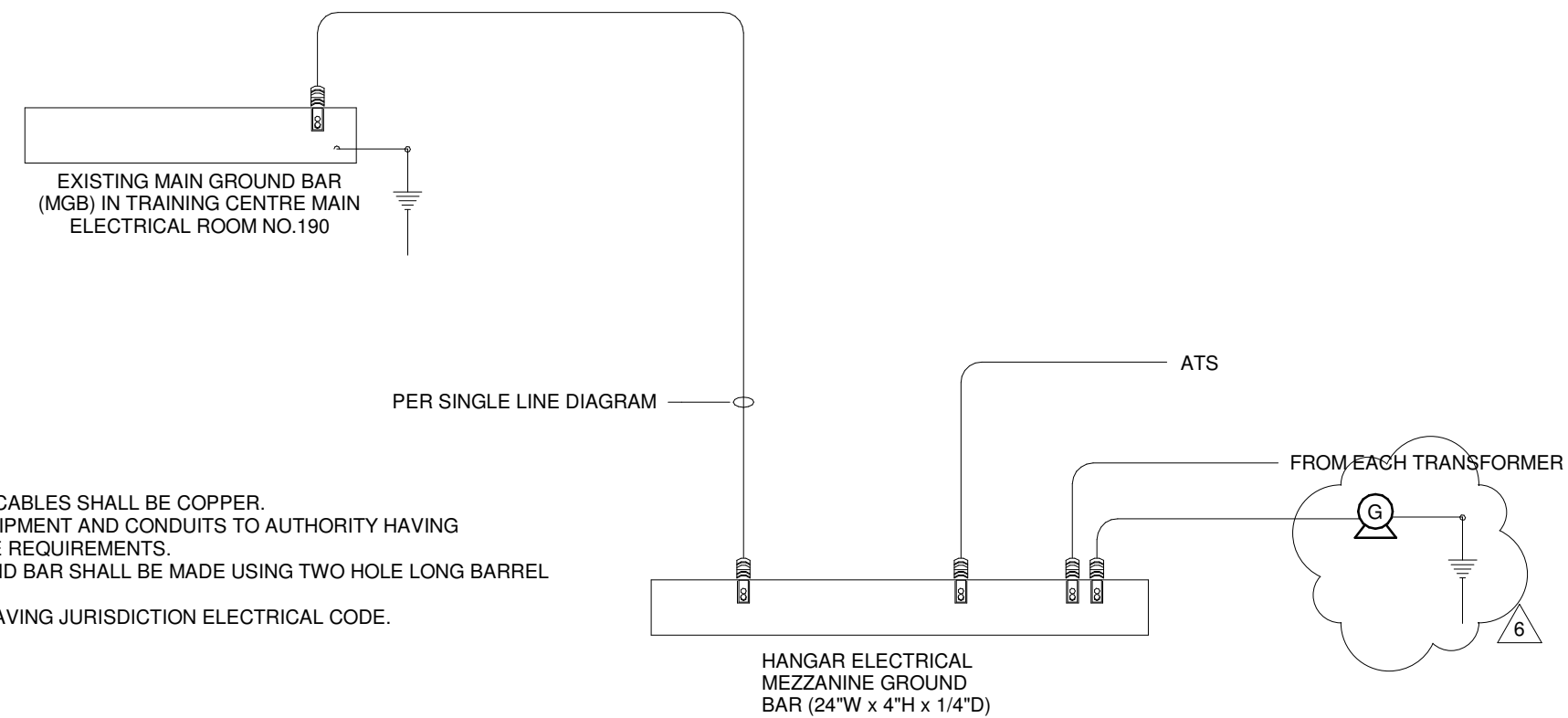
TRANSFER SWITCH GROUNDING SCHEMATIC

SCALE: 1 : 50

CABLE SCHEDULE	
LOAD TAG	CONDUCTOR SIZE
ODU-1	3x 1/c - #4
DO	3x 1/c - #8
P-3	3x 1/c - #12
P-5	3x 1/c - #12
ASHP-1	3x 1/c - #1
P-2	3x 1/c - #10
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:
- REFER TO SECTION 26 05 26.
 - ALL GROUND BARS AND GROUND CABLES SHALL BE COPPER.
 - PROVIDE ALL GROUNDING TO EQUIPMENT AND CONDUITS TO AUTHORITY HAVING JURISDICTION'S ELECTRICAL CODE REQUIREMENTS.
 - ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING TWO HOLE LONG BARREL COMPRESSION LUGS.
 - WIRE SIZES AS PER AUTHORITY HAVING JURISDICTION ELECTRICAL CODE.



Grounding Riser

SCALE:N.T.S.

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YORK REGIONAL POLICE HELICOPTER HANGAR

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4	ISSUED FOR ADDENDUM 6	2024-09-30
3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR SITE PLAN APPROVAL	2024-08-16
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

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Do not scale drawings

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

ELECTRICAL SINGLE LINE DIAGRAM

Drawing
No.
E-700

YORK REGIONAL POLICE
HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan

[illegible]

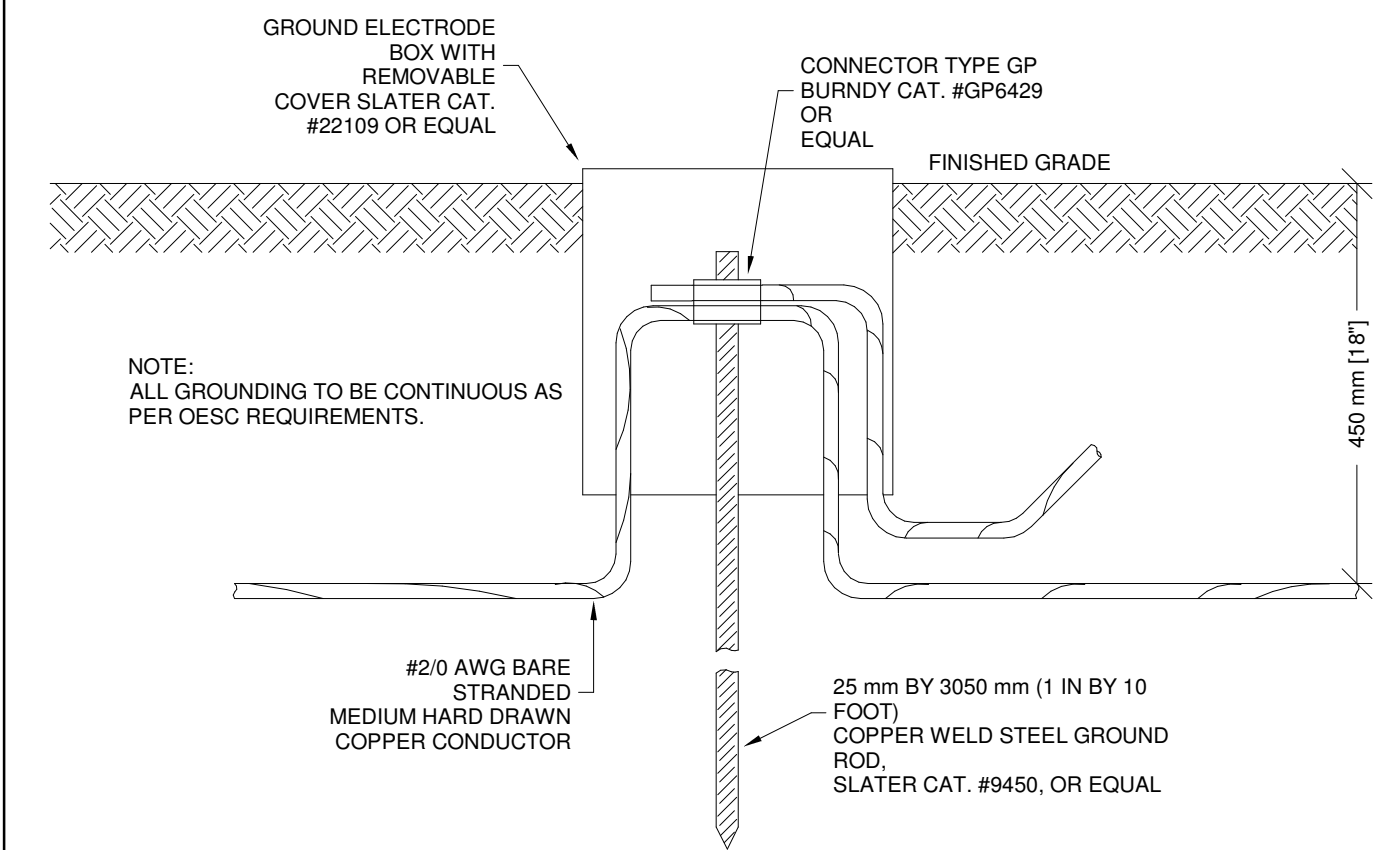
NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE

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

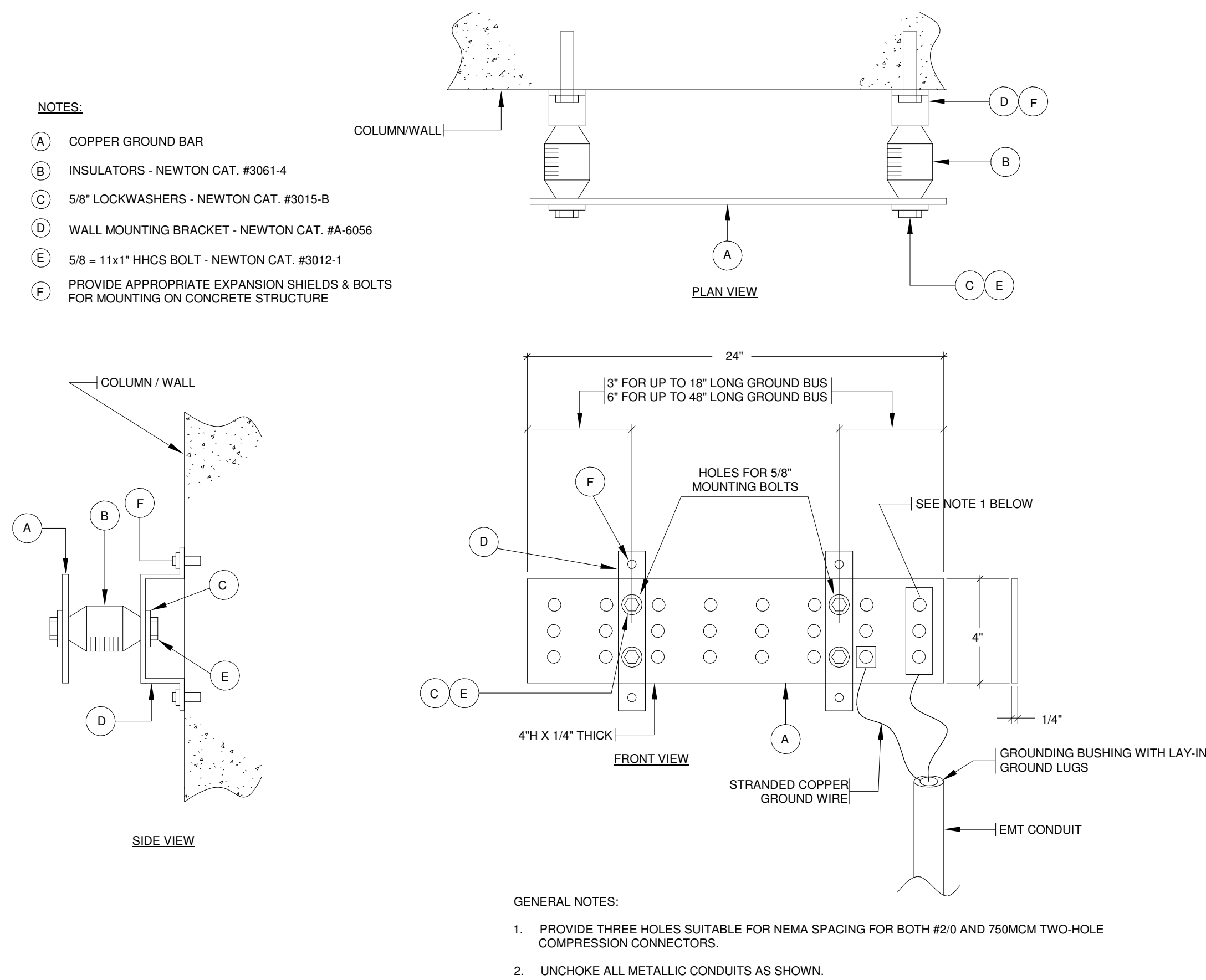
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NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.

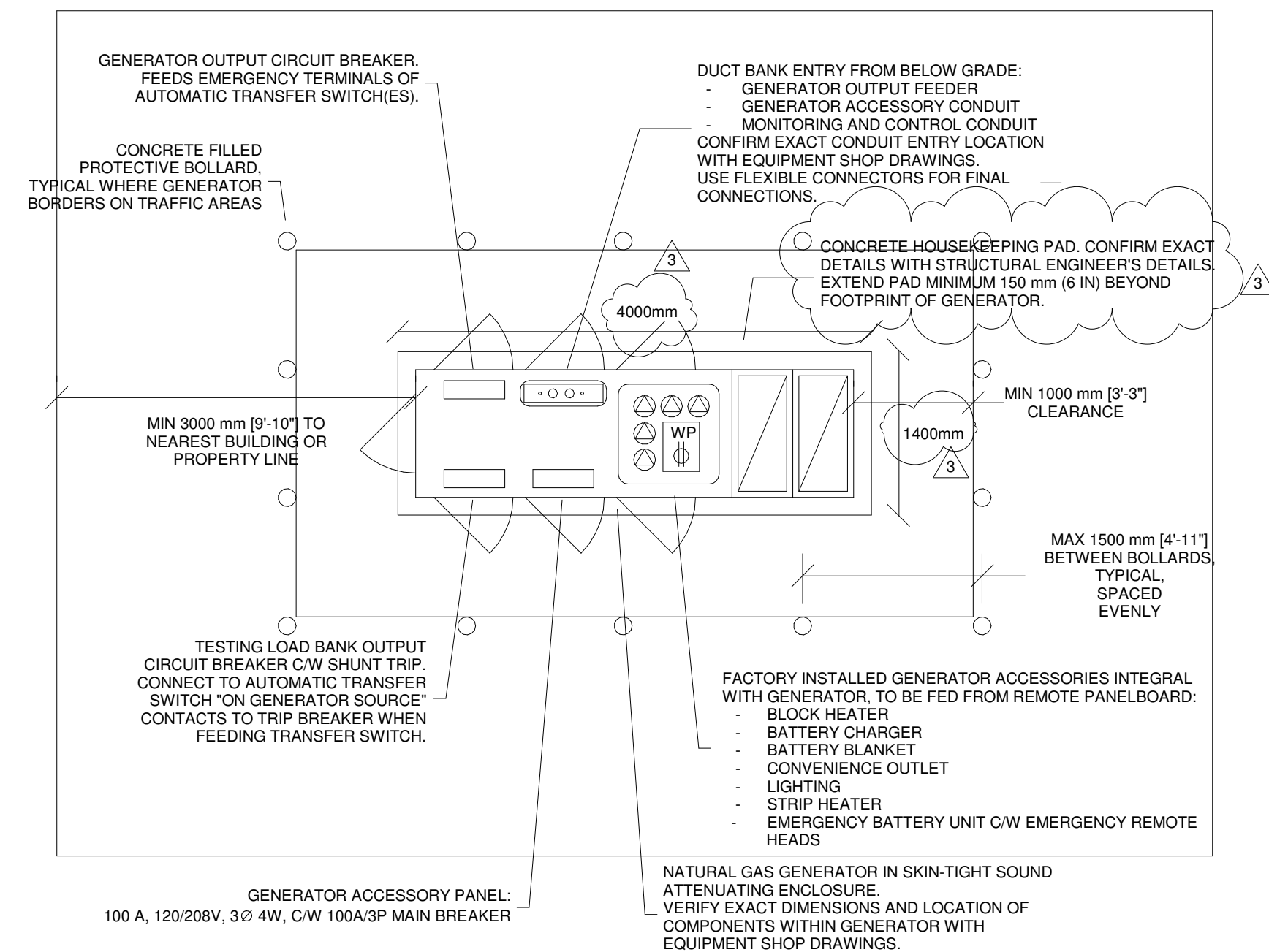
2 Max Branch Wiring Distance for 120 V System at 3% Voltage Drop
SCALE:N.T.S.



3 Ground Rod
SCALE:N.T.S.



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



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

[illegible]

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: N.T.S.

Sheet
Title: ELECTRICAL DETAILS

Drawing
No.
E-802

Branch Panel: DP-01															
Location: Room 129					Volts: 347/600V					A.I.C. Rating: 42 kA					
Supply From:					Phases: 3					Mains Type:					
Mounting: SURFACE					Wires: 4					Mains Rating: 400 A					
Enclosure: NEMA 3R										MCB Rating: 100 A					
Notes:															
CKT	Circuit Description	QTY	Trip	Poles	A		B		C		Poles	Trip	QTY	Circuit Description	CKT
1					0 VA	7967 VA									2
3	SURGE PROTECTION DEVICE	--	60 A	3			0 VA	7967 VA			3	30 A	1	HANGAR BIFOLD DOOR CONTROLLER	4
5									0 VA	7967 VA					6
7					0 VA	24333...									8
9	RESERVED SPACE FOR FUTURE PV INVERTER SYSTEM	--	0 A	3			0 VA	24333...			3	125 A	1	AIR SOURCE HEAT PUMP	10
11									0 VA	24333...					12
13					0 VA	433 VA									14
15	RESERVED SPACE FOR FUTURE EV CHARGING	--	0 A	3			0 VA	433 VA			3	25 A	1	P2-R	16
17									0 VA	433 VA					18
19					433 VA	433 VA									20
21	P2	1	25 A	3			433 VA	433 VA	433 VA	433 VA	3	10 A	1	P3	22
23															24
25					433 VA	433 VA									26
27	P-4	1	10 A	3			433 VA	433 VA			3	10 A	1	P-5R	28
29									433 VA	433 VA					30
31					433 VA	433 VA									32
33	P-5	1	10 A	3			433 VA	433 VA			3	10 A	1	P-1	34
35									433 VA	433 VA					36
37					433 VA	167 VA									38
39	P-1R	1	10 A	3			433 VA	167 VA			3	20 A	1	CRANE HOIST POWER	40
41									433 VA	167 VA					42
43					7433 VA										44
45	ODU-1	1	30 A	3			7433 VA								46
47									7433 VA						48
49															50
51															52
53															54
55															56
57															58
59															60
Total Load:					43367 VA		43367 VA		43367 VA						
Total Amps:					125 A		125 A		125 A						
Legend:															
Load Classification			Connected Load			Demand Factor			Estimated Demand			Panel Totals			
Other			130100 VA			100.00%			130100 VA			Total Conn. Load: 130100 VA			
												Total Est. Demand: 130100 VA			
												Total Conn.: 125 A			
												Total Est. Demand: 125 A			
Notes:															

Branch Panel: DP-03															
Location: Room 129					Volts: 120/208 Wye					A.I.C. Rating: 22 kA					
Supply From:					Phases: 3					Mains Type:					
Mounting: Surface					Wires: 4					Mains Rating: 400 A					
Enclosure: NEMA 3R										MCB Rating: 250 A					
Notes:															
CKT	Circuit Description	QTY	Trip	Poles	A	B	C	A	B	C	Poles	Trip	QTY	Circuit Description	CKT
1	R: WASHER	1	15 A	1	180 VA			216 VA			1	30 A	1	TLWH-1	2
3	EF-2	1	15 A	1		700 VA			900 VA		1	15 A	2	EF-2	4
5	TLWH-1	1	30 A	1			216 VA			2496 VA	2	30 A	1	R: DRYER	6
7	METERING CABINET	1	15 A	1	500 VA			2496 VA							8
9	UH-1 TO UH-6	6	15 A	1		1296 VA			100 VA		2	20 A	1	ODU-2	10
11										100 VA					12
13	FUEL TANK	1	15 A	2	250 VA										14
15						250 VA			350 VA		2	15 A	1	EBBH-1	16
17							11472 VA			350 VA					18
19	DP-02	1	225 A	3	11021 VA			108 VA			2	50 A	1	TLWH-2	20
21						11034 VA			108 VA						22
23	TLWH-3	1	20 A	2	108 VA		108 VA		167 VA		3	25 A	1	AIR COMPRESSOR	24
25															26
27	TLWH-3	1	60 A	2		108 VA		108 VA		167 VA					28
29										167 VA					30
31	RTU-1	1	50 A	3	167 VA			167 VA			3	20 A	1	GENERATOR ENCLOSURE PANEL	32
33						167 VA			167 VA						34
35							167 VA				1	15 A	--	HELIPAD LIGHTING CONTROLLER	36
37					167 VA										38
39	RTU-2	1	40 A	3		167 VA									40
41							167 VA								42
Total Load:					15541 VA		15512 VA		15517 VA						
Total Amps:					130 A		129 A		129 A						
Legend:															
Load Classification			Connected Load			Demand Factor			Estimated Demand			Panel Totals			
Other			23836 VA			100.00%			23836 VA						
Spare			500 VA			100.00%			500 VA			Total Conn. Load: 46562 VA			
EMERGENCY BATTERY PACK			100 VA			100.00%			100 VA			Total Est. Demand: 46562 VA			
Lighting - Dwelling Unit			2044 VA			100.00%			2044 VA			Total Conn.: 129 A			
Receptacle			16152 VA			100.00%			16152 VA			Total Est. Demand: 129 A			
Notes:															

Branch Panel: DP-02															
Location: MECHANICAL / ELECTRICAL...					Volts: 120/208 Wye					A.I.C. Rating: 22 kA					
Supply From: DP-03					Phases: 3					Mains Type:					
Mounting: SURFACE					Wires: 4					Mains Rating: 225 A					
Enclosure: NEMA 3R										MCB Rating: 225 A					
Notes:															
CKT	Circuit Description	QTY	Trip	Pole s	A		B		C		Pole s	Trip	QTY	Circuit Description	CKT
1	EMERGENCY BATTERY PACK	2	15 A	1	100 VA	360 VA					1	15 A	2	R: CONFERENCE ROOM	2
3	PARKING & SIGNAGE LIGHTING	12	15 A	1			218 VA	360 VA			1	15 A	2	R: FITNESS	4
5	EXIT SIGNS	11	20 A	1					285 VA	430 VA	1	20 A	2	R: CONFERENCE ROOM FLOOR...	6
7	AVIATION LIGHTING	1	15 A	1	500 VA	700 VA					1	15 A	1	TSP-1	8
9	R: CONFERENCE ROOM	3	15 A	1			540 VA	720 VA			1	15 A	4	R: GENERAL OFFICE	10
11	R: OFFICE 1	3	15 A	1					540 VA	720 VA	1	15 A	4	R: OFFICE 2	12
13	LIGHTING	35	15 A	1	846 VA	1200...					1	15 A	1	EF-3	14
15	EF-3	1	15 A	1			900 VA	1200...			1	25 A	1	EF-4	16
17	WINDSOCK AND...	2	15 A	1					1000...	1300...	1	15 A	1	B1	18
19	R: HANGAR	8	20 A	1	1440...	1500...					1	15 A	3	AUTOMATIC DOOR OPERATORS...	20
21	LIGHTING	27	15 A	1			2323...	180 VA			1	20 A	1	RECEPTACLE	22
23	B2	1	15 A	1					1300...	2132...	1	15 A	24	LIGHTING	24
25	R: RPAS	1	20 A	1	180 VA	1500...					2	15 A	11	FCU-1 TO FCU-11	26
27	GROUND POWER UNIT	2	20 A	2			500 VA	1500...							28
29									500 VA	180 VA	1	20 A	1	RECEPTACLE	30
31	R: KITCHEN COUNTER	1	20 A	1	180 VA	180 VA					1	15 A	1	R: FRIDGE	32
33	R: PRINTER	1	15 A	1			180 VA	180 VA			1	15 A	1	R: GARAGE DOOR	34
35	R: QUARTERMASTER	1	15 A	1					180 VA	180 VA	1	15 A	1	R: GARAGE DOOR	36
37	R: DISHWASHER	1	15 A	1	180 VA	360 VA					1	15 A	2	R: TV SECURITY DISPLAY	38
39	R: ELECTRICAL ROOM	1	15 A	1			180 VA	360 VA			1	15 A	2	R: VEHICLE BAY	40
41	R: FITNESS TV	1	20 A	1					180 VA	360 VA	1	15 A	2	R: WASHROOM	42
43	R: MECHANICAL ROOM	2	15 A	1	360 VA	360 VA					1	15 A	1	R: IT ROOM	44
45	R: MECHANICS OFFICE	2	15 A	1			360 VA	360 VA			1	15 A	2	R: LOUNGE AND TV	46
47	R: RADIO	2	15 A	1					360 VA	360 VA	1	20 A	2	R: MAINTENANCE	48
49	R: FITNESS	2	15 A	1	360 VA	500 VA					1	15 A	1	FA MONITORING TRANSMITTER	50
51	R: GENERAL OFFICE	2	15 A	1			360 VA	500 VA			1	15 A	1	FAAP	52
53	R: IT ROOM	2	15 A	1					360 VA	500 VA	1	15 A	1	FACP	54
55	R: UNIVERSAL WASHROOM	--	15 A	1	500 VA	167 VA									56
57							167 VA				3	30 A	1	IT RACK	58
59									167 VA						60
61															62
63															64
65															66
67															68
69															70
71															72
73															74
75															76
77															78
79															80
81															82
83															84
					Total...	11472 VA	11021 VA		11034 VA						
					Total...	96 A	92 A		92 A						
Legend:															
<div></div>															
Load Classification					Connected Load		Demand Factor		Estimated Demand		Panel Totals				
Other					15960 VA		100.00%		15960 VA						
Spare					500 VA		100.00%		500 VA		Total Conn. Load: 33516 VA				
EMERGENCY BATTERY PACK					100 VA		100.00%		100 VA		Total Est. Demand: 33516 VA				
Lighting - Dwelling Unit					2044 VA		100.00%		2044 VA		Total Conn.: 93 A				
Receptacle					10980 VA		100.00%		10980 VA		Total Est. Demand: 93 A				
Notes:															