



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

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, Smoke Detectors, and various fire alarm devices.

ELECTRICAL DRAWING LIST
DRAWING # DRAWING NAME
Table listing drawing numbers and names for electrical legends and schedules.

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, Fire Detection and Alarm - Signalling Devices, Fire Alarm Bell, Fire Alarm Horn, Fire Alarm Evacuation Speaker, and various fire alarm control devices.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for Wall Mounted Data Outlet, Voice/Data/TV Outlets, Audio/Video Gans, Public Address System, and various communication and security devices.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for Special Receptacle, Floor Receptacle, Service Pole, Adjacent to Device, Lighting Fixtures, Linear Luminaire, and various lighting and emergency equipment.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for System Furniture Wall Feed, Adjacent to 3-Phase Direct Connection, Connection to Single Phase Motor, Three Phase Motor, Lighting Controls, Switches, and various distribution and control equipment.

Table with 2 columns: SYMBOL, DESCRIPTION. Lists electrical symbols for Linetypes, Abbreviations, and various electrical components like transformers, panelboards, and receptacles.

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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Table with 2 columns: SYMBOL, DESCRIPTION. Contains electrical legend entries for LINE TYPES, ABBREVIATIONS, and various electrical symbols like OBC, OESC, OFC, ACT, EXP, OWSJ, PCC, WD, CL, WR, PTP, PSC, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Contains electrical legend entries for SYSTEM FURNITURE WALL FEED, LIGHTING CONTROLS, DISTRIBUTION EQUIPMENT, and various electrical symbols like W, FB1, DIM, K, T, AT, DS, PIR, DT, UT, OS, M, RP, PP, SC, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Contains electrical legend entries for LIGHTING FIXTURES, EMERGENCY LIGHTING, EXTERIOR LIGHTING, and various electrical symbols like SL, PL, EM, CCT, CRI, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Contains electrical legend entries for WALL MOUNTED DATA OUTLET, AUDIO VISUAL SYSTEM SPEAKER, ACCESS CONTROL AND DOOR HARDWARE, and various electrical symbols like DB, DB-W, CACF, FACP, FAAP, FAAG, FAFP, DGP, FAZ, FSZ, FDSPCP, FDSPP, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Contains electrical legend entries for FIRE DETECTION - INITIATION DEVICES, FIRE DETECTION AND ALARM - SUPERVISORY DEVICES, FIRE DETECTION AND ALARM - SIGNALLING DEVICES, FIRE DETECTION AND ALARM - SIGNALING DEVICES, and various electrical symbols like LX, WG, A, SA, HT, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Contains electrical legend entries for GENERATOR, AUTOMATIC TRANSFER SWITCH, AUTOMATIC TRANSFER SWITCH COMPLETE WITH SINGLE SIDED BYPASS ISOLATION, and various electrical symbols like G, AT, ATC, ATCIS, etc.

GENERAL NOTE:
SYMBOLS WITHIN HATCHED AREA ARE ROUGH-IN ONLY. COORDINATE EXACT INSTALLATION LOCATION WITH OWNER. DEVICES TO BE INSTALLED BY OWNER.

ELECTRICAL DRAWING LIST
DRAWING # DRAWING NAME
E-001 ELECTRICAL LEGEND & DRAWING LIST
E-100 ELECTRICAL SITE PLAN
E-200 LIGHTING NEW WORK - GROUND FLOOR
E-300 POWER AND SYSTEMS NEW WORK - GROUND FLOOR
E-301 POWER AND SYSTEMS NEW WORK - ROOF PLAN
E-700 ELECTRICAL SINGLE LINE DIAGRAM
E-701 FIRE ALARM RISER
E-800 ELECTRICAL DETAILS
E-801 ELECTRICAL DETAILS
E-802 ELECTRICAL DETAILS
E-803 ELECTRICAL DETAILS
E-804 ELECTRICAL DETAILS
E-805 ELECTRICAL DETAILS
E-900 ELECTRICAL SCHEDULES
E-901 ELECTRICAL SCHEDULES

Table with 4 columns: NO., ISSUED, DATE, DATE. Contains revision history for drawing E-001.

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



YORK REGIONAL POLICE
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350 GARFIELD WRIGHT
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Key
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Table with 2 columns: SYMBOL, DESCRIPTION. Includes entries for GENERATOR, AUTOMATIC TRANSFER SWITCH, PHOTOELECTRIC SMOKE DETECTOR, etc.

ELECTRICAL DRAWING LIST

Table with 2 columns: DRAWING #, DRAWING NAME. Lists various electrical drawings such as E-001 ELECTRICAL LEGEND & DRAWING LIST, E-100 ELECTRICAL SITE PLAN, etc.

Table with 4 columns: NO., ISSUED, ISSUED FOR, DATE. Contains a schedule of drawings and their approval dates.

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Sheet
Title:
ELECTRICAL LEGEND &
DRAWING LIST

Drawing
No.
E-001

Table with 2 columns: SYMBOL, DESCRIPTION. Includes entries for NEW WORK, WORK TO BE DEMOLISHED, EXISTING MATERIAL, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Includes entries for SYSTEM FURNITURE WALL FEED, LIGHTING CONTROLS, TRANSFORMER, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Includes entries for SPECIAL RECEPTACLE, LINEAR LUMINAIRE, EMERGENCY LIGHTING, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Includes entries for WALL MOUNTED DATA OUTLET, TELEVISION OUTLET, VOICE, DATA, OR TV OUTLET, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Includes entries for FIRE DETECTION - INITIATION DEVICES, MANUAL PULL STATION, PHOTOELECTRIC SMOKE DETECTOR, etc.

Table with 2 columns: SYMBOL, DESCRIPTION. Includes entries for AIR CIRCUIT BREAKER, MOLDED CASE CIRCUIT BREAKER, DISCONNECT, etc.



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Key
Plan

NO.	ISSUED	DATE
10	ISSUED FOR ADDENDUM 15	2024-12-04
9	ISSUED FOR ADDENDUM 14	2024-11-27
8	ISSUED FOR ADDENDUM 10	2024-10-15
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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Do not scale drawings

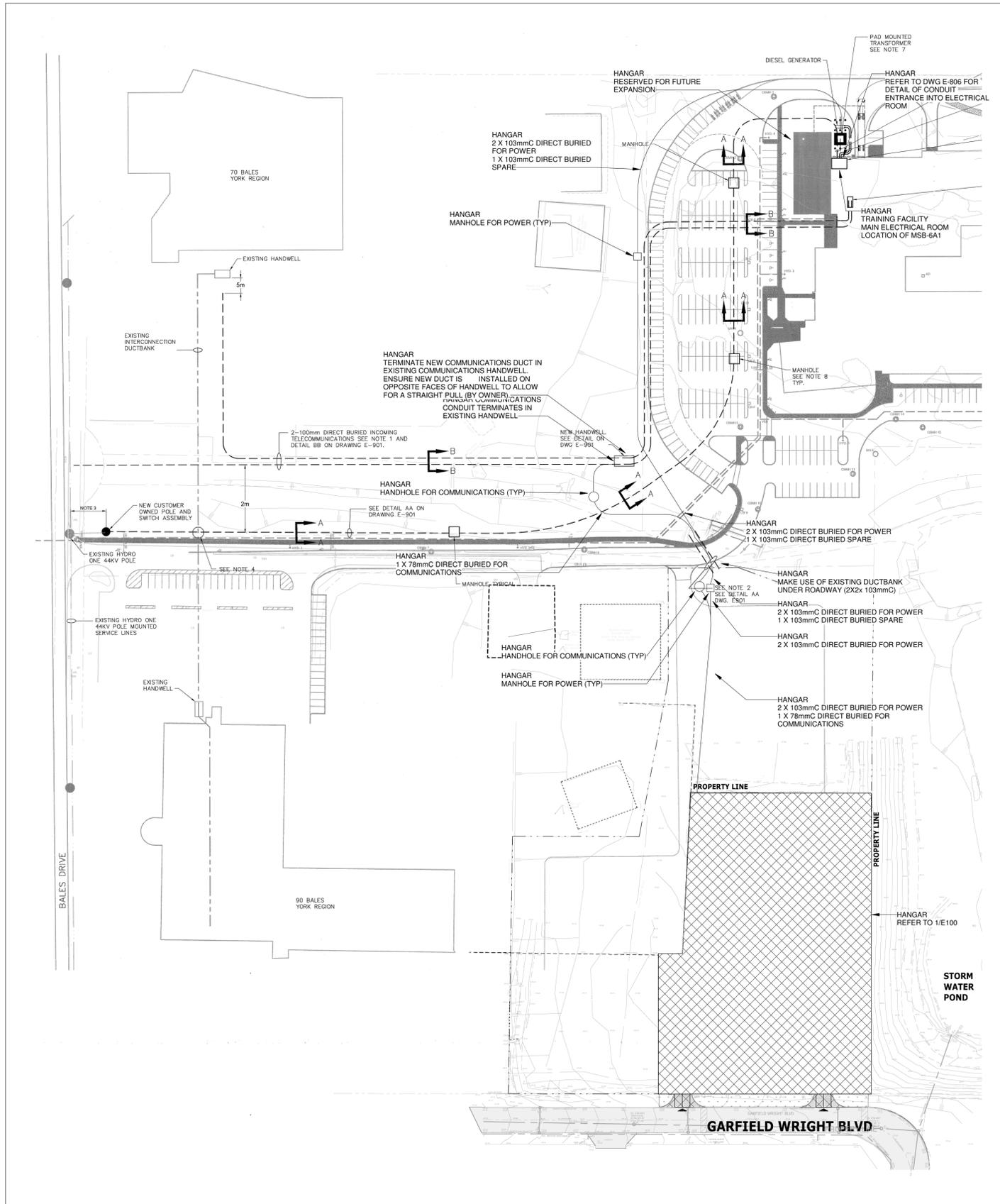
Drawn by: ZK
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: As indicated

Sheet
Title:
ELECTRICAL SITE PLAN

Drawing
No:
E-100

NOTES:

- 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.

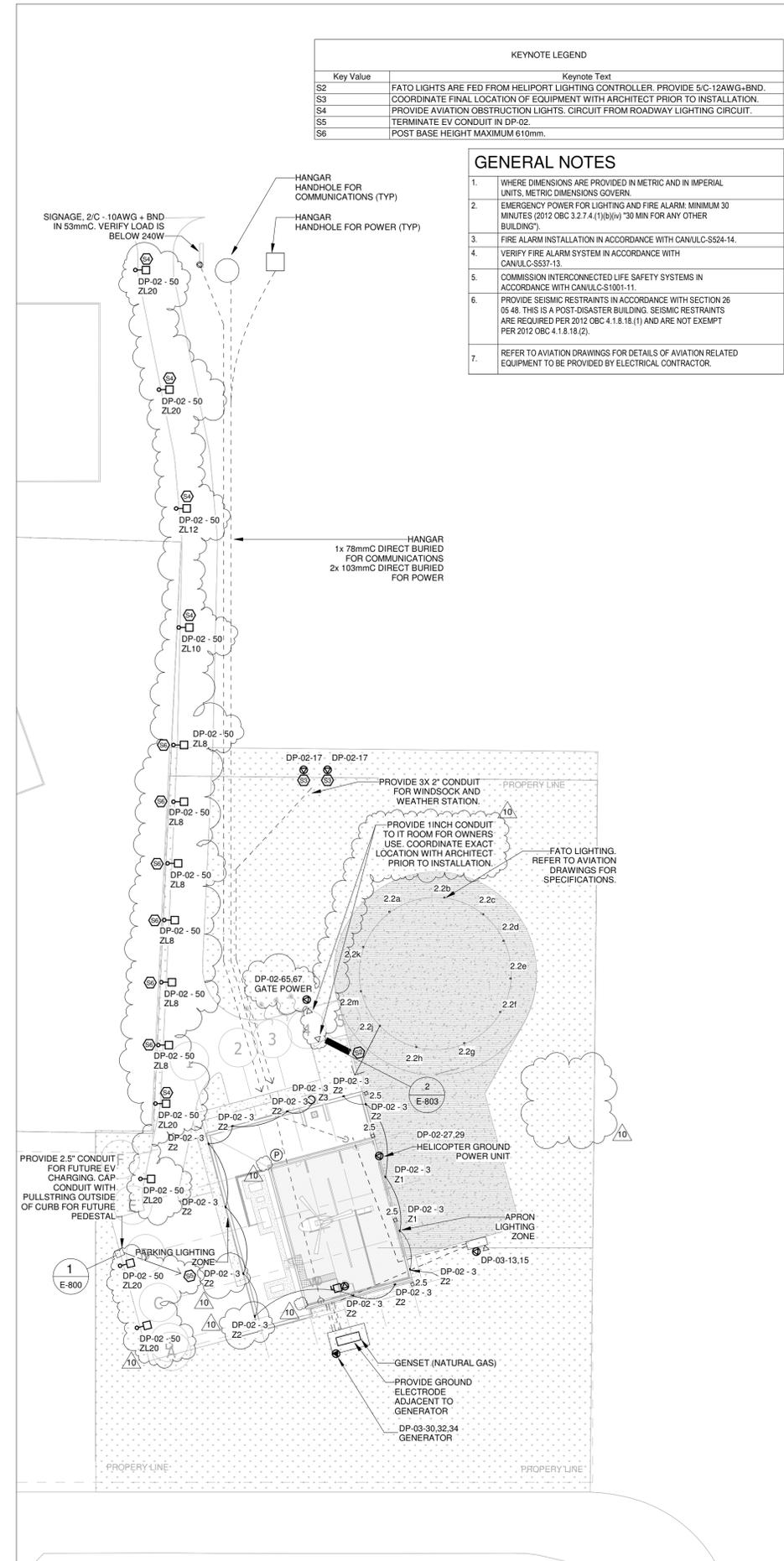


2 OVERALL SITE PLAN
SCALE: 1 : 1000

Key Value	Keynote Text
S2	FATO LIGHTS ARE FED FROM HELIPORT LIGHTING CONTROLLER. PROVIDE 5/C-12AWG+BND.
S3	COORDINATE FINAL LOCATION OF EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
S4	PROVIDE AVIATION OBSTRUCTION LIGHTS. CIRCUIT FROM ROADWAY LIGHTING CIRCUIT.
S5	TERMINATE EV CONDUIT IN DP-02.
S6	POST BASE HEIGHT MAXIMUM 610mm.

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 48. 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).
- REFER TO AVIATION DRAWINGS FOR DETAILS OF AVIATION RELATED EQUIPMENT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.



1 SITE PLAN
SCALE: 1 : 500



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Key
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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Project No: TT-24-005
Scale: As indicated

Sheet
Title:
ELECTRICAL SITE PLAN

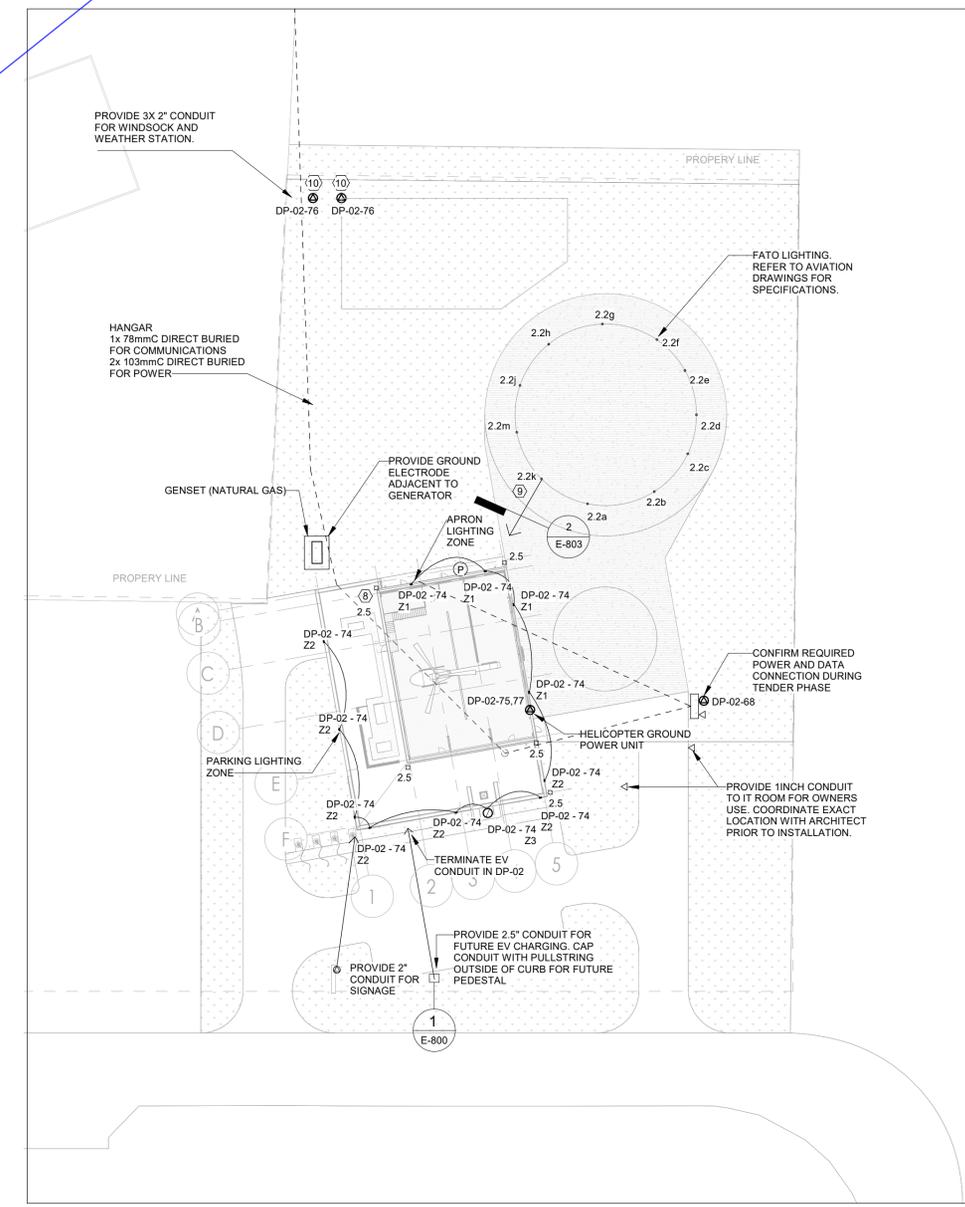
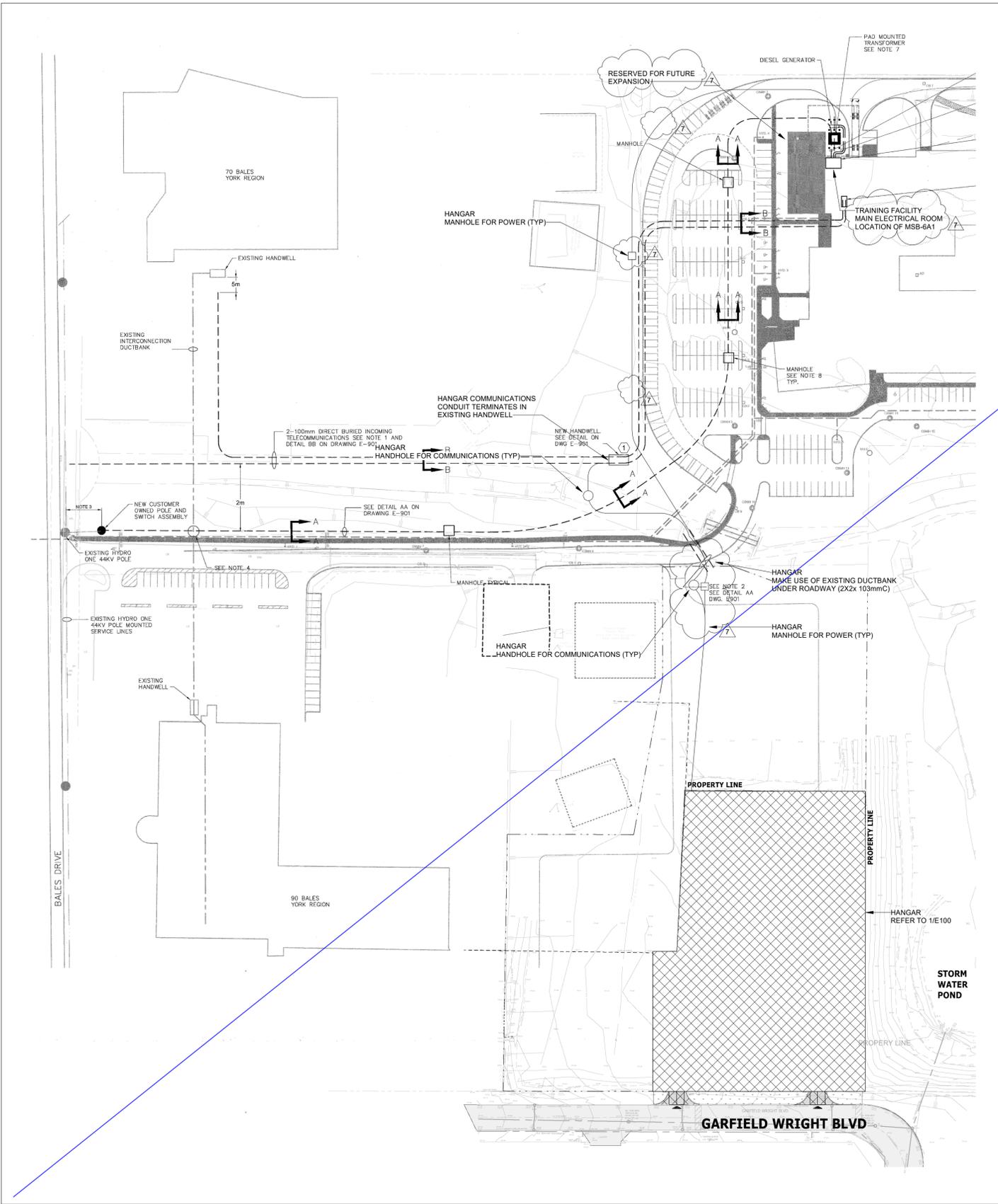
Drawing
No:
E-100

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- AVIATION OBSTRUCTION LIGHTS, FED FROM PANEL DP-02-42.
- FATO LIGHTS ARE FED FROM HELIPORT LIGHTING CONTROLLER, PROVIDE 5C-12AWG+8ND.
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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.



2024-10-07 7:05:51 PM Autodesk Docs://2402 - YRP Helicopter Hangar/TT-24-005-YRP-OCG ME Model R24.rvt



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Key
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
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1	ISSUED FOR BUILDING PERMIT	2024-07-31

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ELECTRICAL SITE PLAN

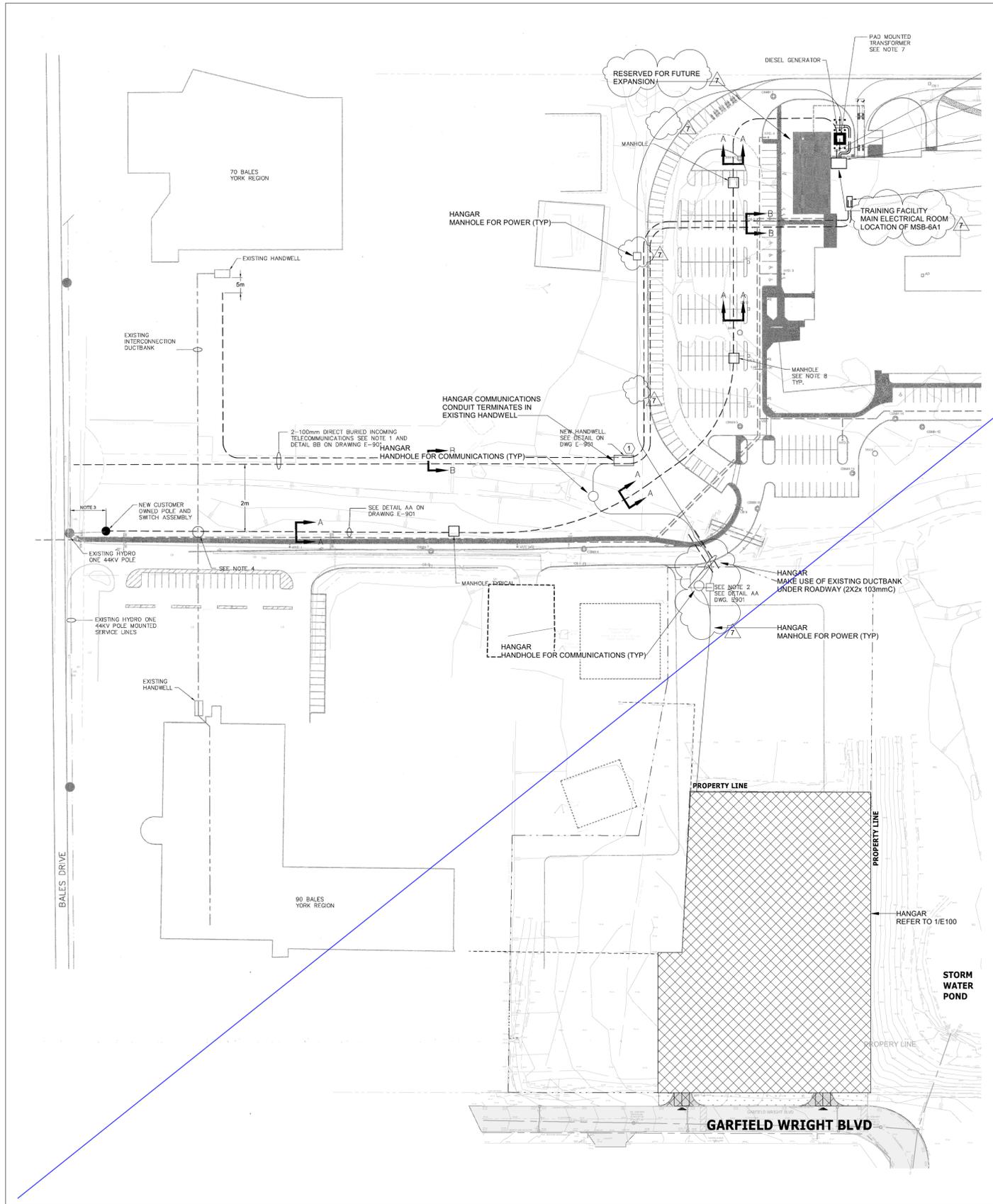
Drawing
No:
E-100

GENERAL NOTES

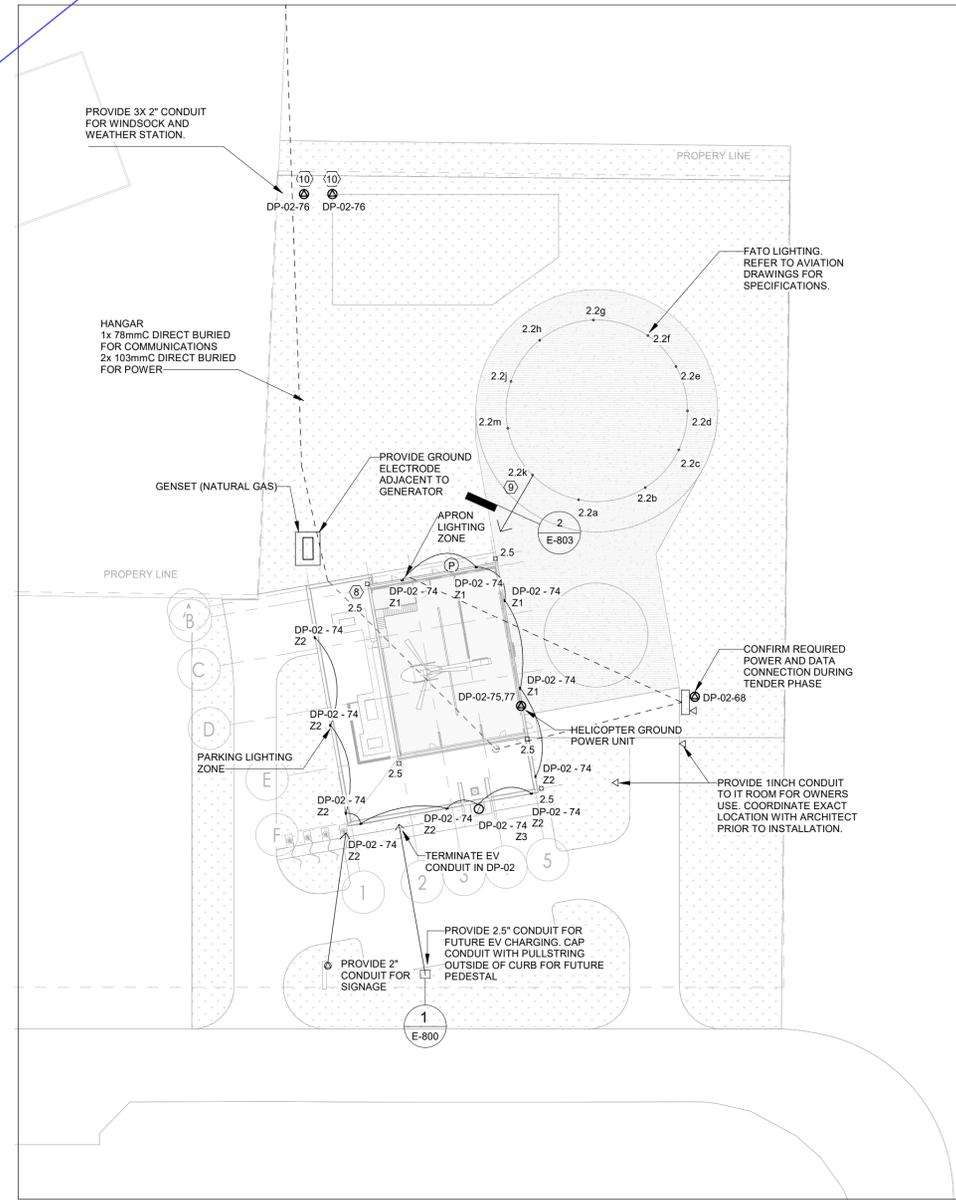
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2 **OVERALL SITE PLAN**
SCALE: 1 : 1000



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



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TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
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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Checked by: AO
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Project No: TT-24-005
Scale: As indicated

Sheet
Title:
ELECTRICAL SITE PLAN

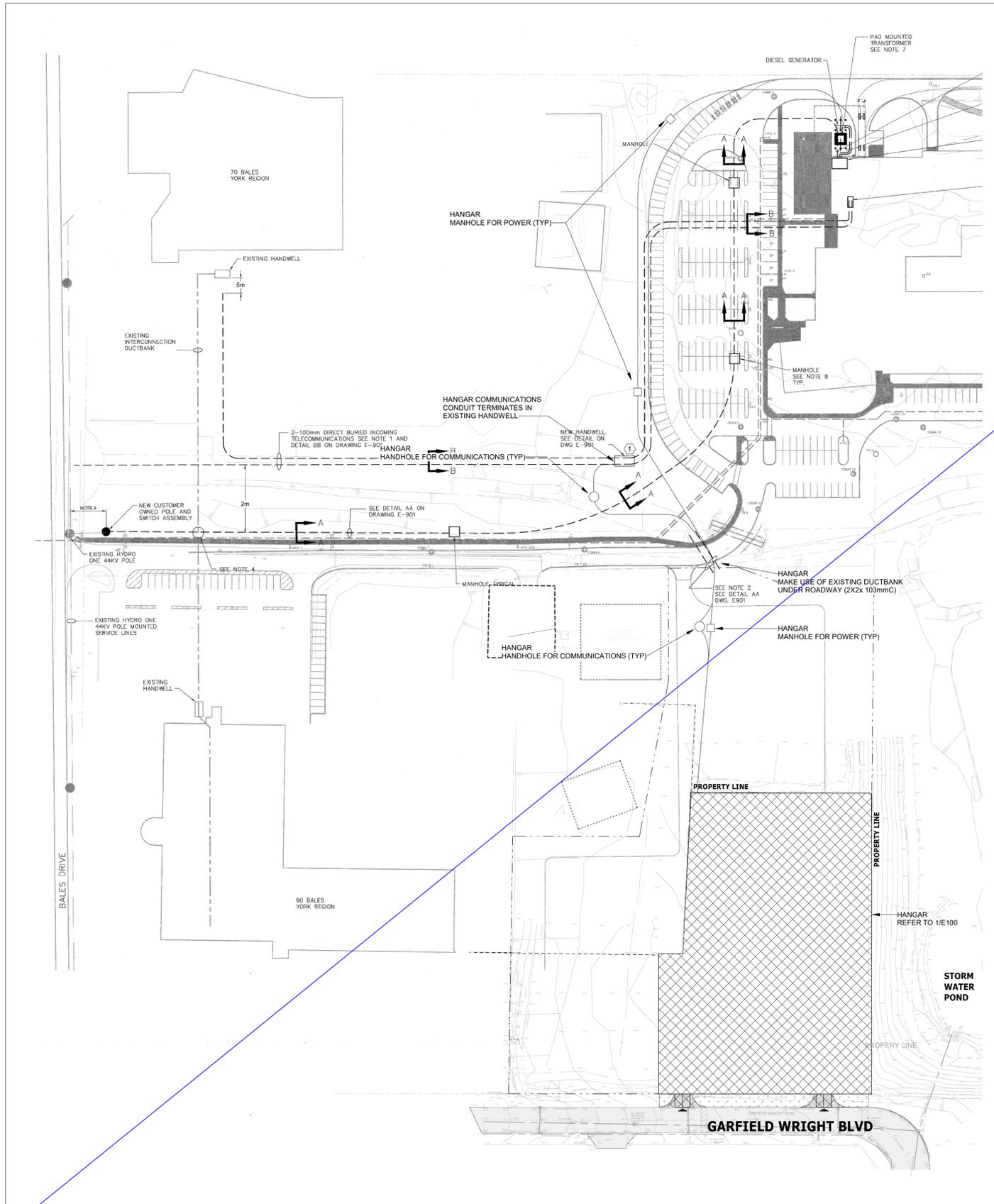
Drawing
No.
E-100

GENERAL NOTES

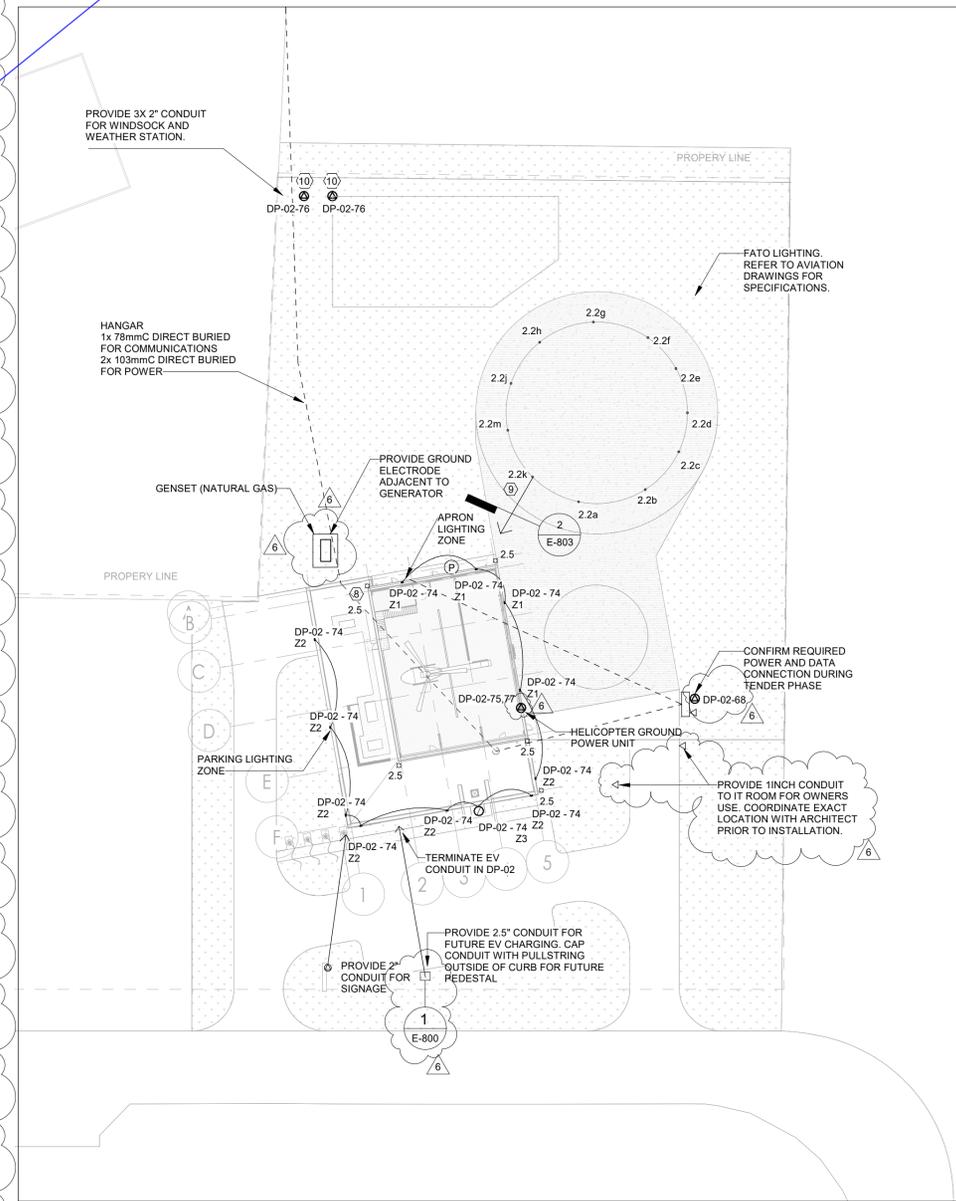
- WHERE DIMENSIONS ARE PROVIDED IN METRIC AND IN IMPERIAL UNITS, METRIC DIMENSIONS GOVERN.
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- FATO LIGHTS ARE FED FROM HELIPORT LIGHTING CONTROLLER. PROVIDE 5/C-12AWG+BNL.
- COORDINATE FINAL LOCATION OF EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
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KEYNOTE LEGEND

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



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



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YORK REGIONAL POLICE HELICOPTER HANGAR

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TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
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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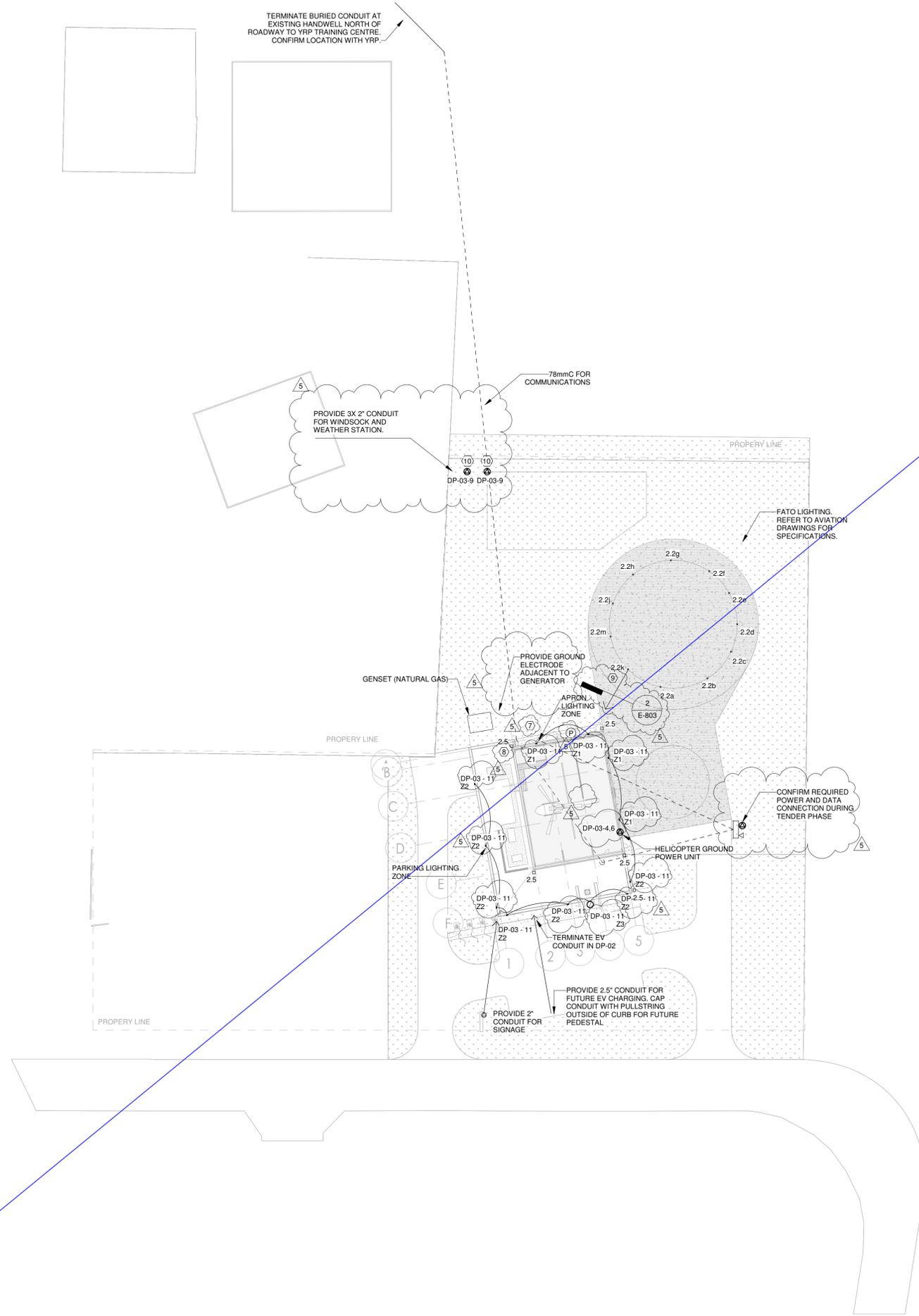
Do not scale drawings

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

Drawing
No:
E-100

GENERAL NOTES	
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 OBC 3.2.7.4.(1)(b)(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 46. THIS IS A POST-DISASTER BUILDING. SEISMIC RESTRAINTS ARE REQUIRED PER 2012 OBC 4.1.8.16 (1) AND ARE NOT EXEMPT PER 2012 OBC 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.



TERMINATE BURIED CONDUIT AT EXISTING HANDWELL NORTH OF ROADWAY TO YRP TRAINING CENTRE. CONFIRM LOCATION WITH YRP.

PROVIDE 3X 2\"/>

78mmC FOR COMMUNICATIONS

FATO LIGHTING. REFER TO AVIATION DRAWINGS FOR SPECIFICATIONS.

PROVIDE GROUND ELECTRODE ADJACENT TO GENERATOR

CONFIRM REQUIRED POWER AND DATA CONNECTION DURING TENDER PHASE

PROVIDE 2.5\"/>

PROVIDE 2\"/>

2024-09-23 2:28:26 PM
Autodesk_Docs\2402 - YRP Helicopter Hangar\TT-24-005-YRP-OCG ME Model_R24.rvt

1
SITE PLAN
SCALE: 1 : 500



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
TEL: 905-507-0900
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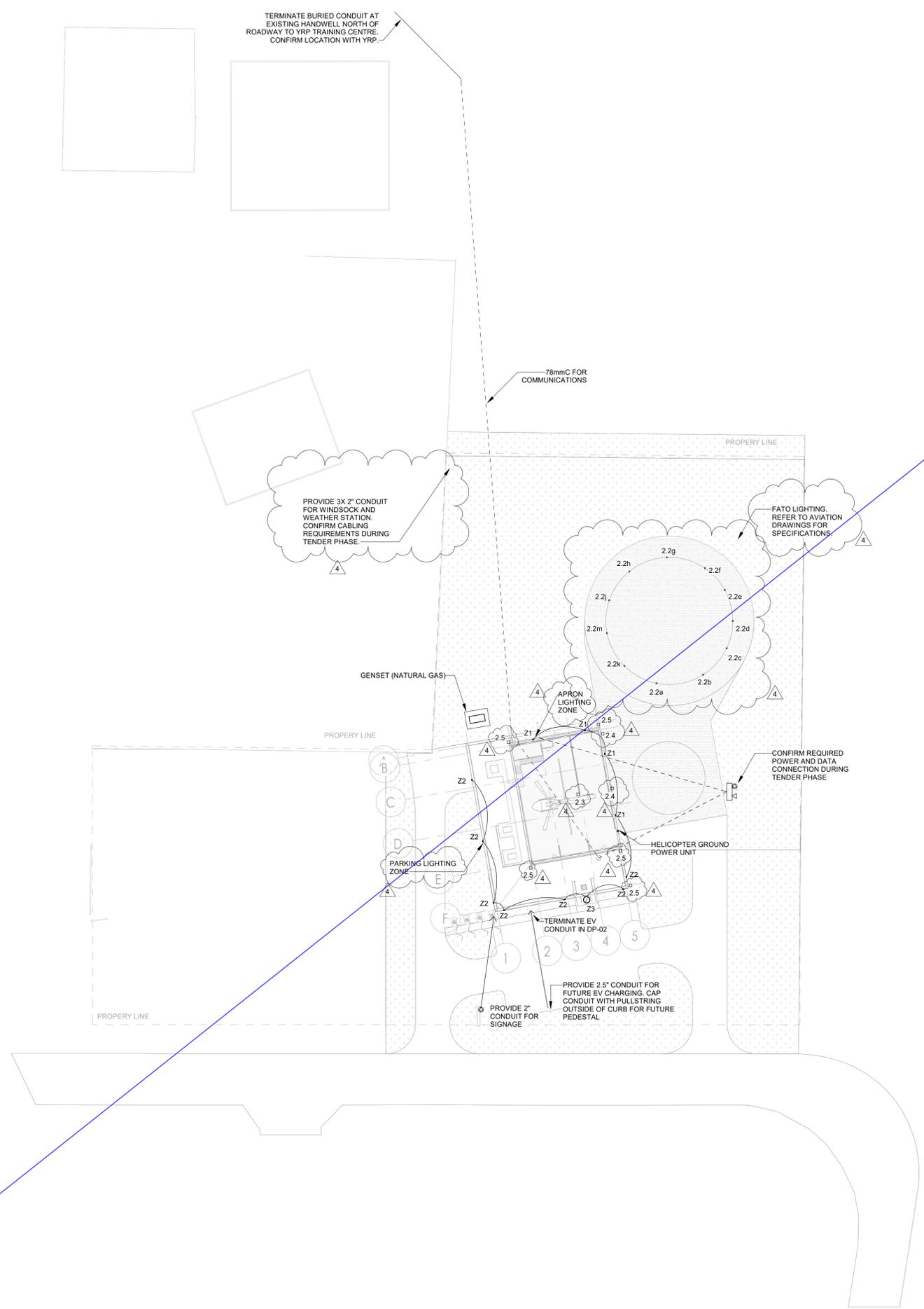
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
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Key
Plan



2 HANGAR
SCALE: N.T.S



NO.	ISSUED	DATE
4	ISSUED FOR ADDENDUM 1	2024-09-16
3	ISSUED FOR TENDER	2024-09-09
2	ISSUED FOR SITE PLAN APPROVAL	2024-08-16
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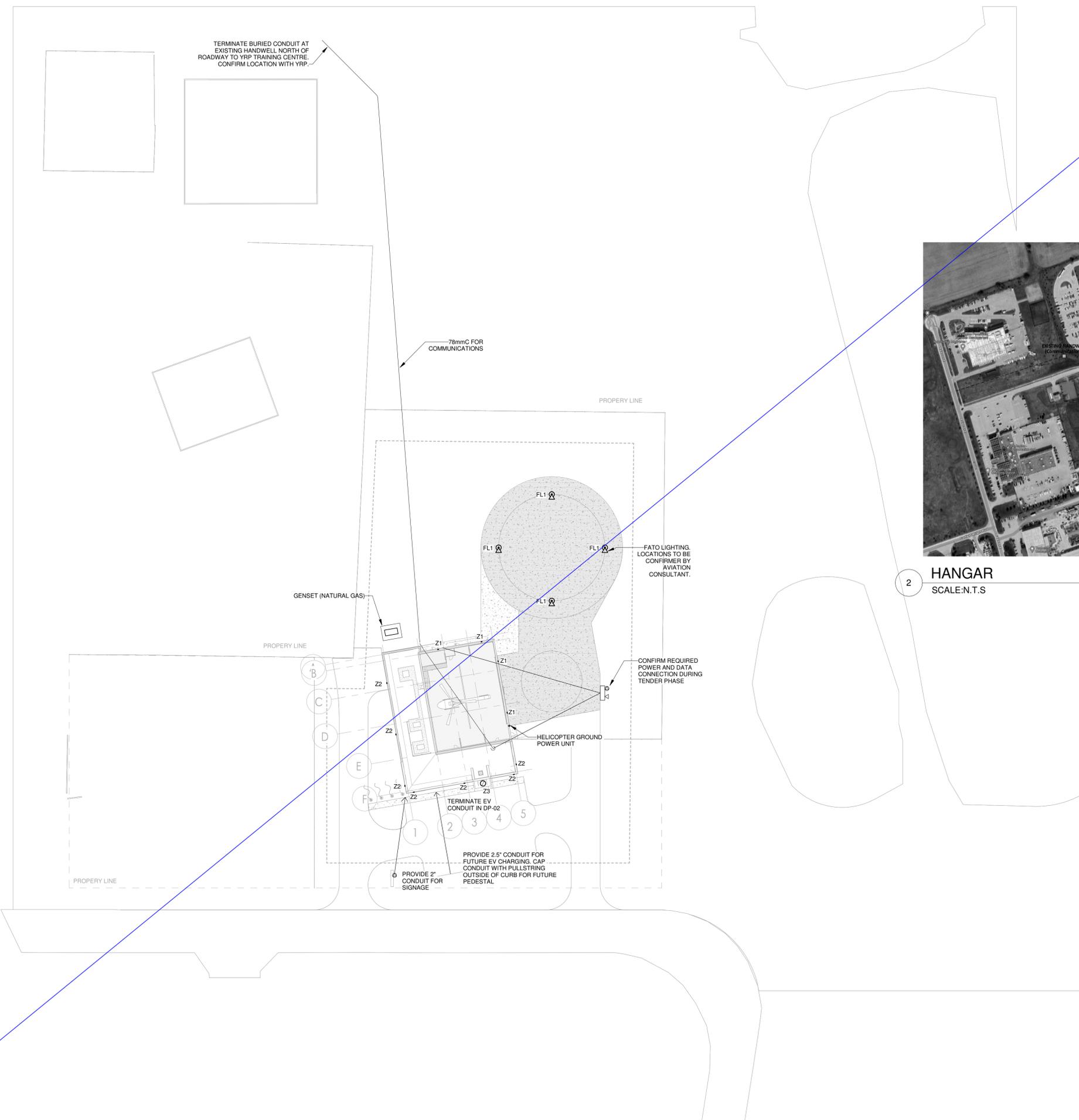
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2 HANGAR
SCALE: N.T.S



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3	ISSUED FOR TENDER	2024-09-09
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WEB: WWW.QUASARG.COM

YORK REGIONAL POLICE HELICOPTER HANGAR

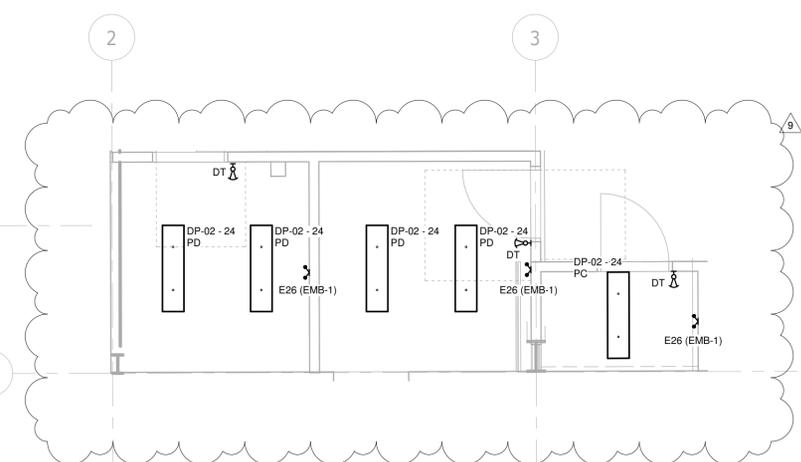
350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

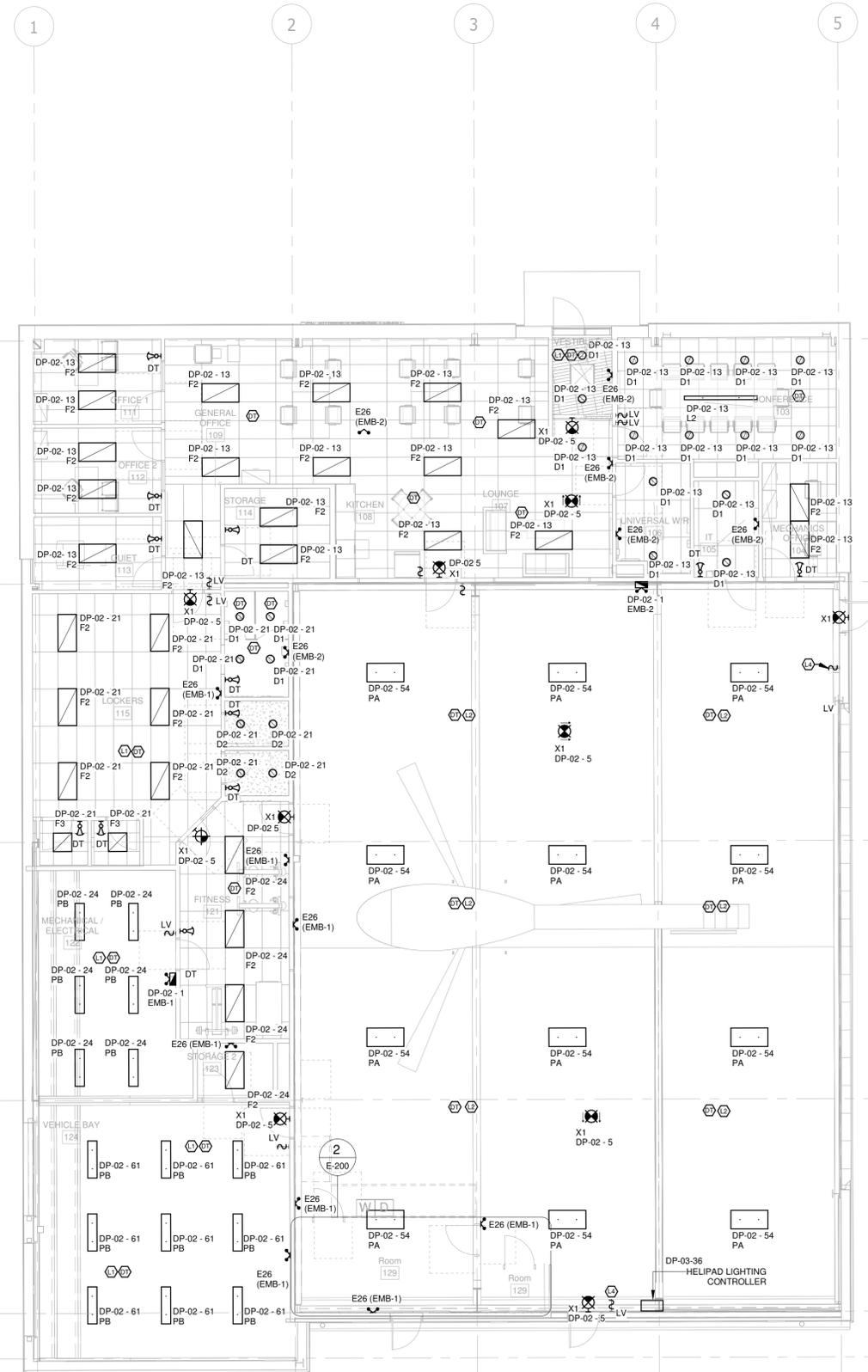
KEYNOTE LEGEND	
Key Value	Keynote Text
L1	COMBINATION OF ULTRASONIC (US) AND PASSIVE INFRARED (PIR) TECHNOLOGIES.
L2	WIRELESS HIGH MOUNT SENSOR FOR OCCUPANCY SENSING AND DAYLIGHT HARVESTING. MATCH HEIGHT OF PA LUMINAIRES IN HANGAR.
L4	DIGITAL SWITCH. APRON LIGHTING OVERRIDE CONTROL.

GENERAL NOTES:

- REFER TO POWER AND SIGNALS DRAWINGS FOR SWITCHED RECEPTACLES.



2 LIGHTING PLAN - GROUND FLOOR
SCALE: 1 : 50



NO.	ISSUED	DATE
9	ISSUED FOR ADDENDUM 15	2024-12-04
8	ISSUED FOR ADDENDUM 14	2024-11-27
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
 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



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

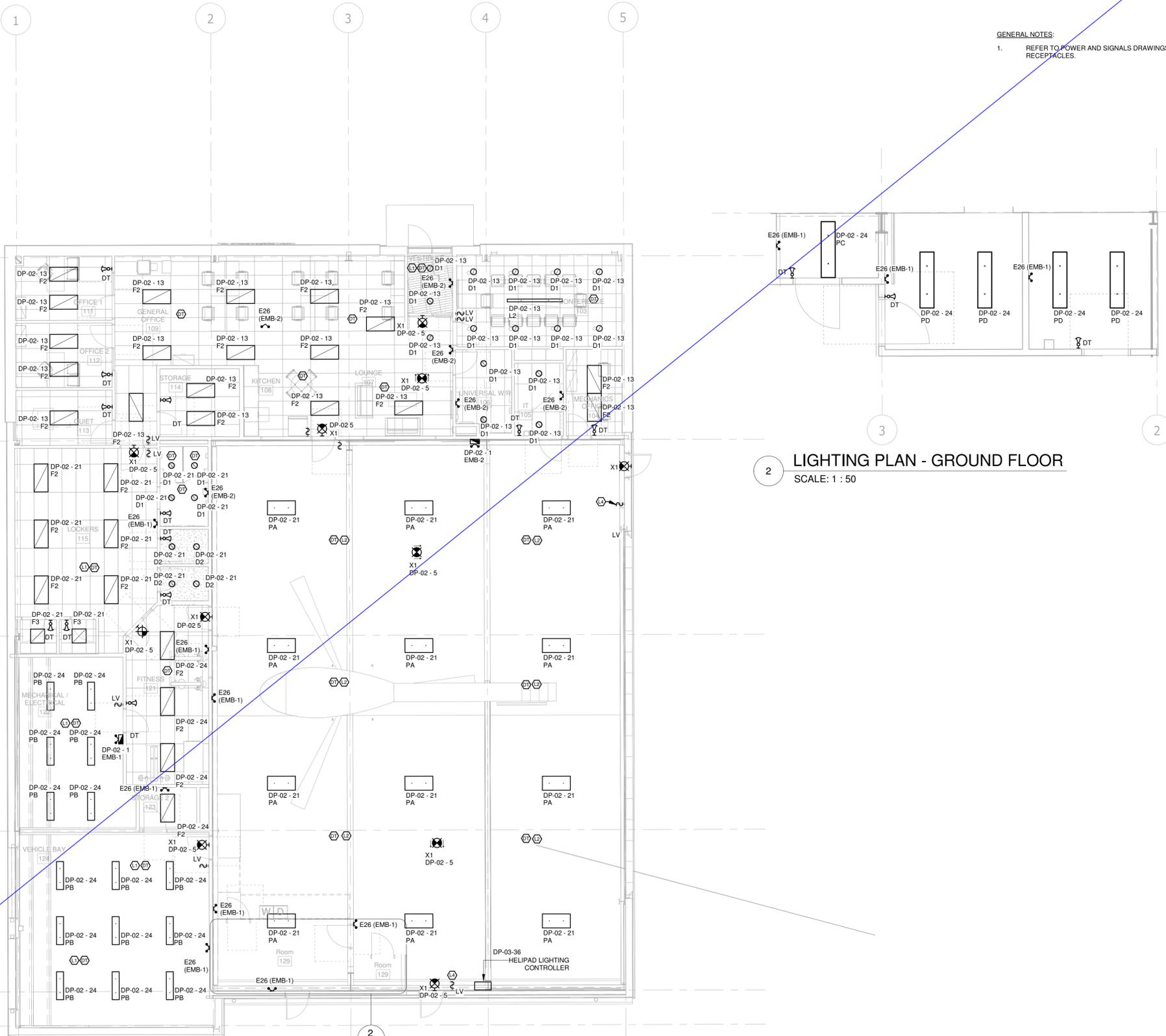
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

KEYNOTE LEGEND	
Key Value	Keynote Text
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L4	DIGITAL SWITCH. APRON LIGHTING OVERRIDE CONTROL.

GENERAL NOTES:
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2 LIGHTING PLAN - GROUND FLOOR
SCALE: 1 : 50

NO.	ISSUED	DATE
8	ISSUED FOR ADDENDUM 14	2024-11-27
7	ISSUED FOR ADDENDUM 10	2024-10-15
6	ISSUED FOR ADDENDUM 8	2024-10-07
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**LIGHTING NEW WORK -
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No:
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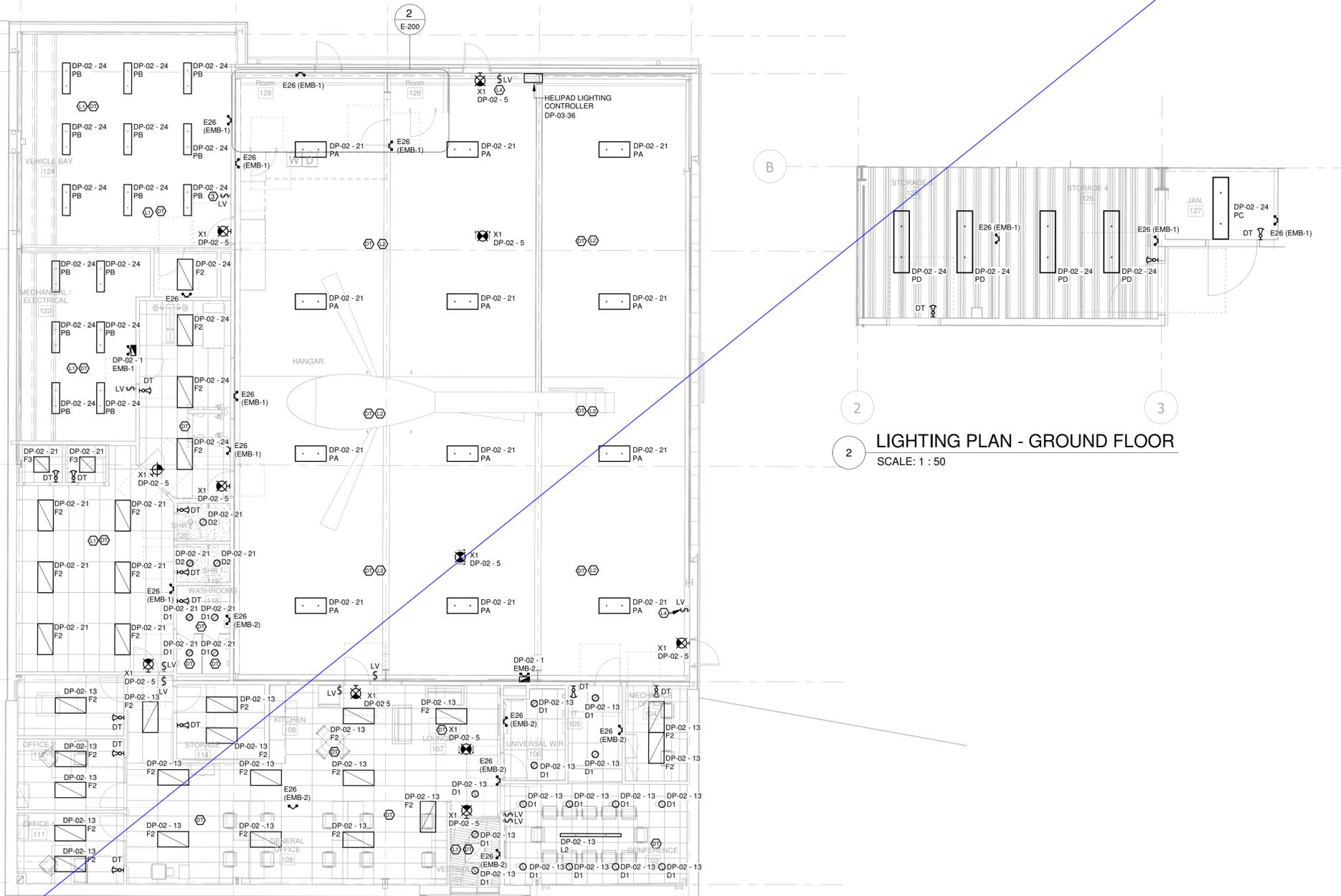
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BOULEVARD
TOWN OF EAST GWILLIMBURY

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Plan

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2 LIGHTING PLAN - GROUND FLOOR
SCALE: 1 : 50

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
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Drawing
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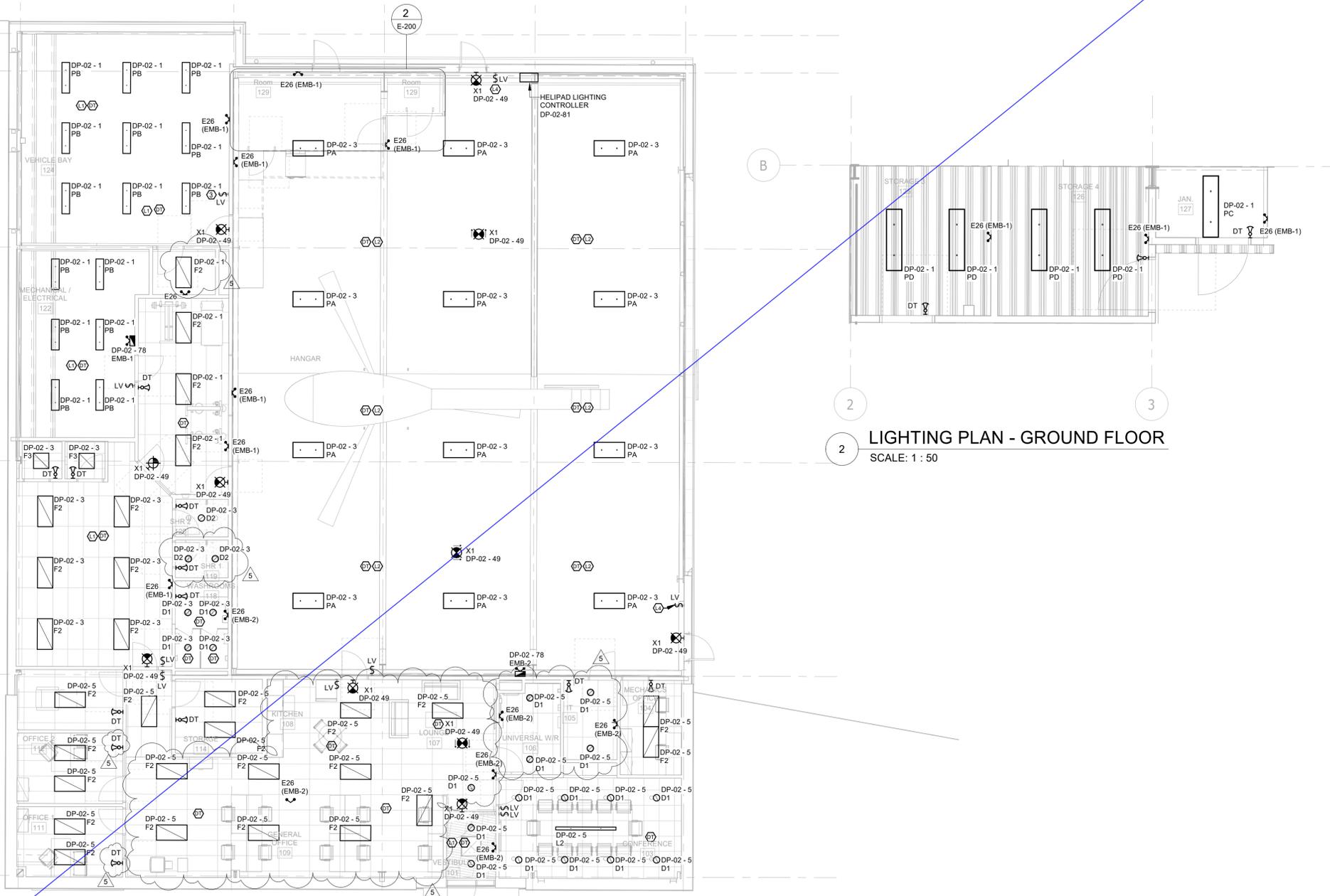
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350 GARFIELD WRIGHT
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TOWN OF EAST GWILLIMBURY

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Key Value	Keynote Text
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L2	WIRELESS HIGH MOUNT SENSORS FOR OCCUPANCY SENSING AND DAYLIGHT HARVESTING.
L4	DIGITAL SWITCH APRON LIGHTING OVERRIDE CONTROL.

- GENERAL NOTES:
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2 LIGHTING PLAN - GROUND FLOOR
SCALE: 1 : 50

NO.	ISSUED	DATE
5	ISSUED FOR ADDENDUM 6	2024-09-30
4	ISSUED FOR ADDENDUM 3	2024-09-23
3	ISSUED FOR ADDENDUM 1	2024-09-16
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Title:
**LIGHTING NEW WORK -
GROUND FLOOR**

Drawing
No:
E-200



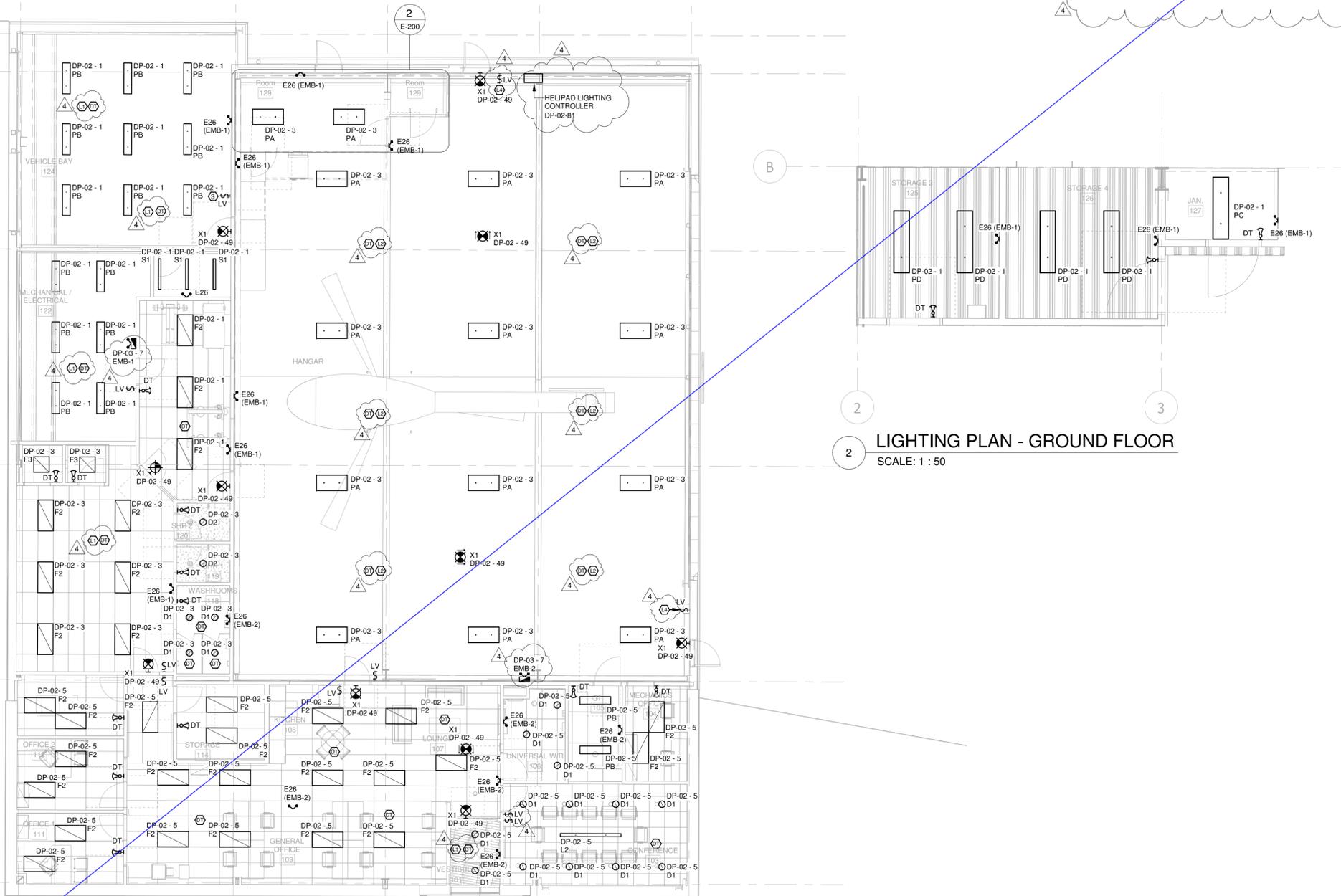
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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Key Value	Keynote Text
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L4	DIGITAL SWITCH. APRON LIGHTING OVERRIDE CONTROL. MOUNT ADJACENT TO HELIPAD LIGHTING CONTROLLER.

GENERAL NOTES:
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2 LIGHTING PLAN - GROUND FLOOR
SCALE: 1 : 50

NO.	ISSUED	DATE
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
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Project No: TT-24-005
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Sheet
Title:
LIGHTING NEW WORK -
GROUND FLOOR

Drawing
No:
E-200



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

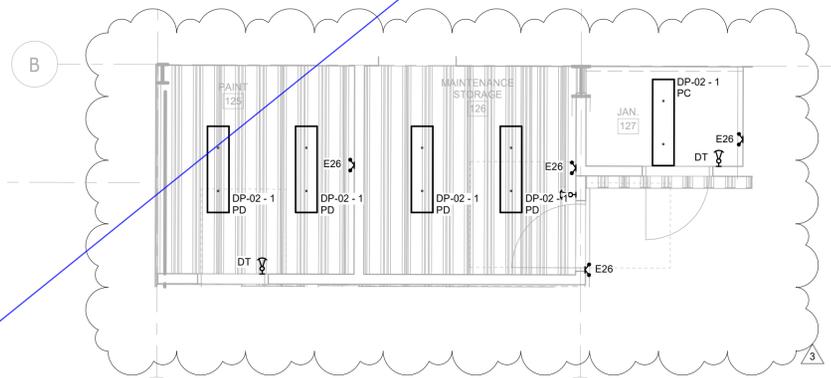
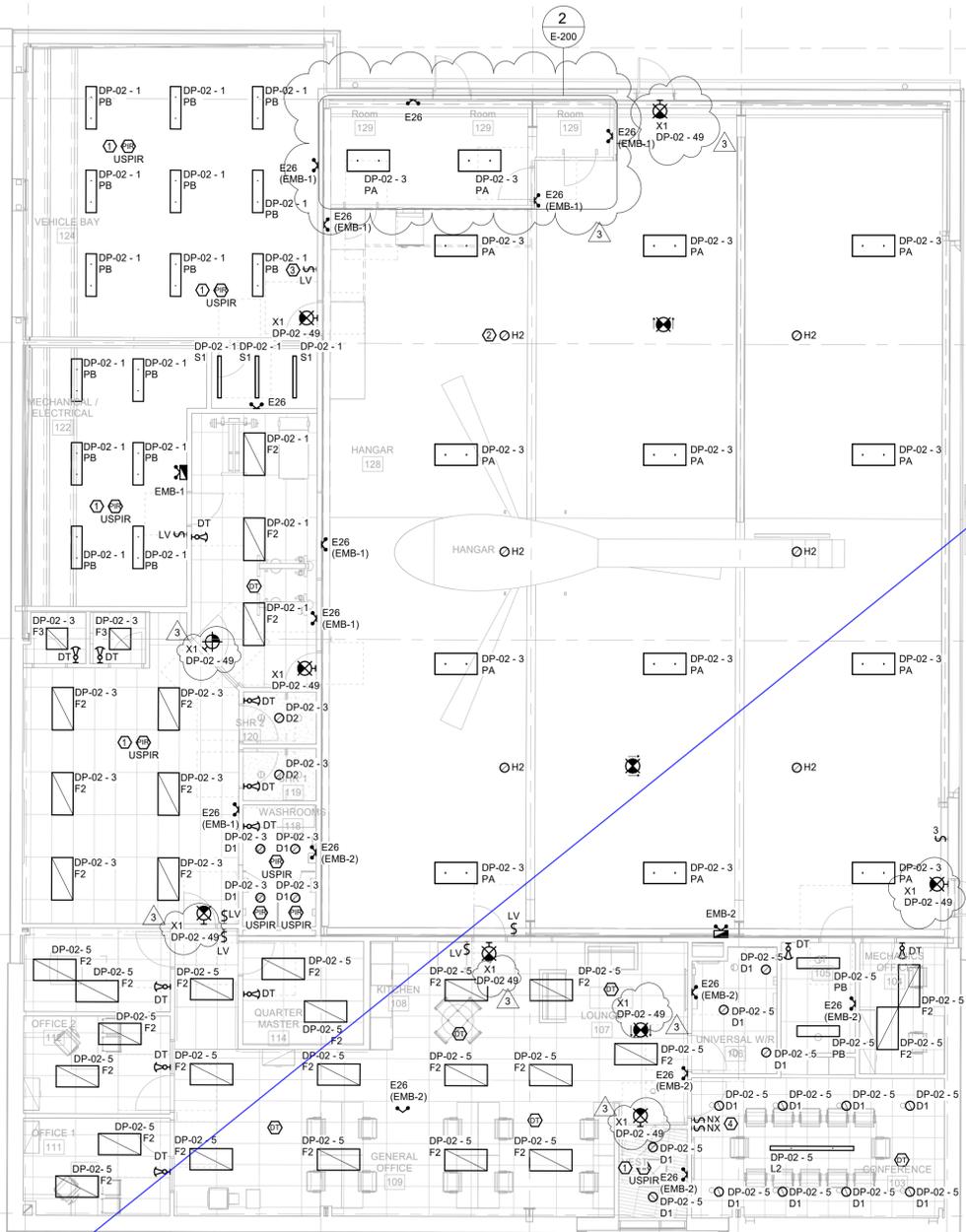
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NOTES:

1. USPIR: COMBINATION OF ULTRASONIC (US) AND PASSIVE INFRARED (PIR) TECHNOLOGIES.
2. H2: WIRELESS HIGH MOUNT SENSOR FOR OCCUPANCY SENSING AND DAYLIGHT HARVESTING.
3. LV SWITCH: LOW VOLTAGE SWITCH OCCUPANCY SENSOR AND DAYLIGHTING CONTROL.
4. NX: DIGITAL SWITCH



2 LIGHTING PLAN - GROUND FLOOR
SCALE: 1 : 50

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 1	2024-09-16
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

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**LIGHTING NEW WORK -
 GROUND FLOOR**

Drawing
 No.
E-200



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YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NOTES:

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NO.	ISSUED	DATE
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Sheet
 Title:
**LIGHTING NEW WORK -
 GROUND FLOOR**

Drawing
 No.
E-200



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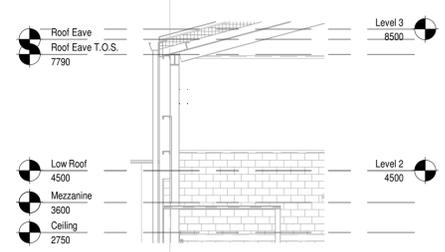
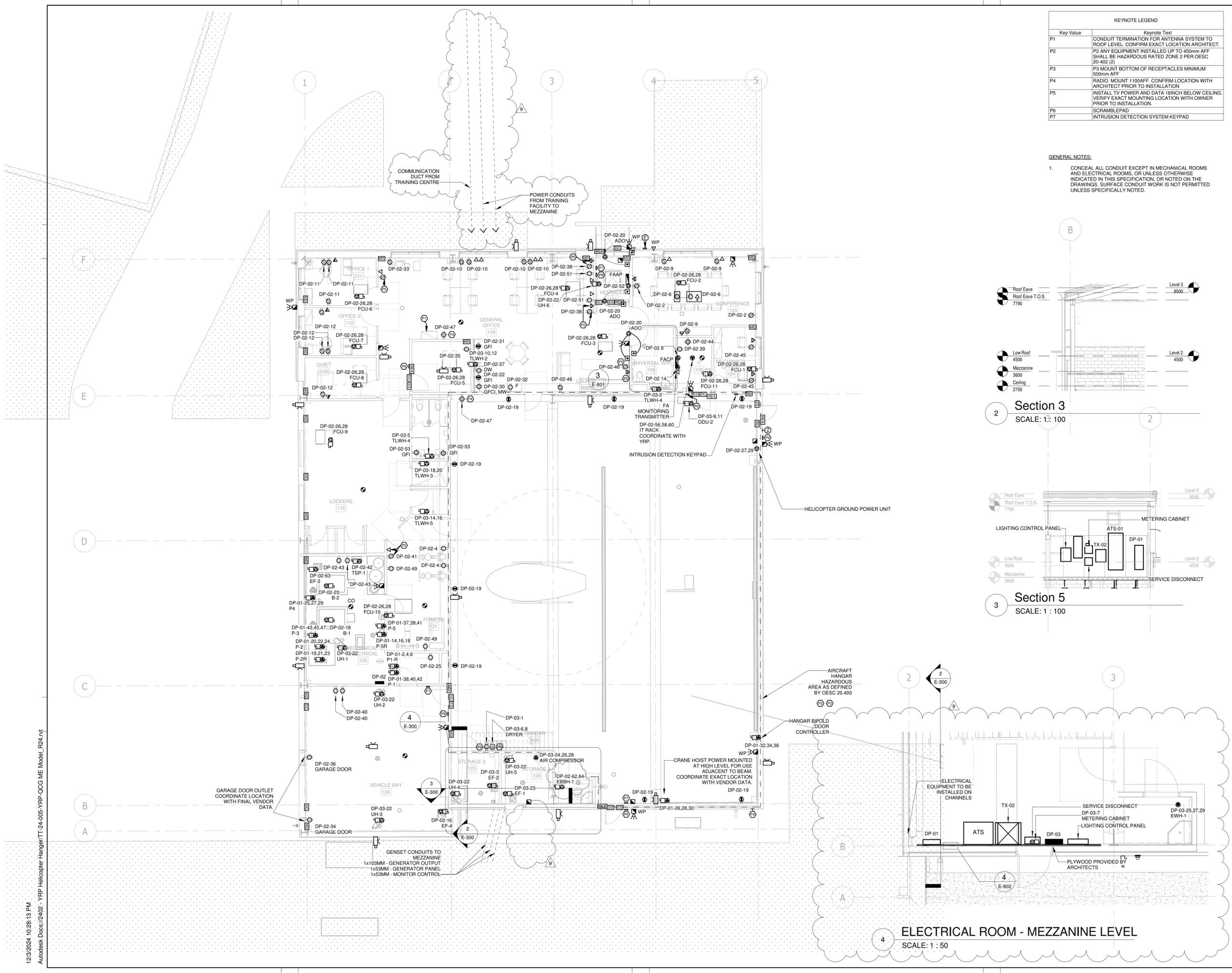
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

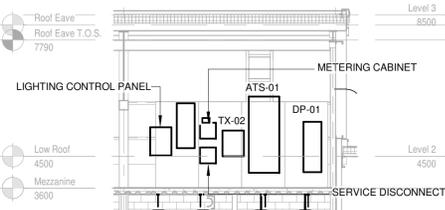
Key
Plan

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 20-002 (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

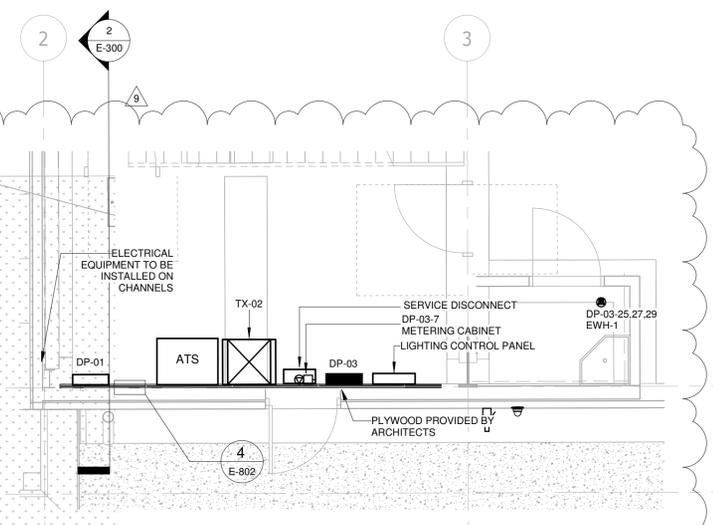
GENERAL NOTES:
1. CONCEAL ALL CONDUIT EXCEPT IN MECHANICAL ROOMS AND ELECTRICAL ROOMS, OR UNLESS OTHERWISE INDICATED IN THIS SPECIFICATION OR NOTED ON THE DRAWINGS. SURFACE CONDUIT WORK IS NOT PERMITTED UNLESS SPECIFICALLY NOTED.



Section 3
SCALE: 1 : 100



Section 5
SCALE: 1 : 100



ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1 : 50

NO.	ISSUED	DATE
9	ISSUED FOR ADDENDUM 15	2024-12-04
8	ISSUED FOR ADDENDUM 14	2024-11-27
7	ISSUED FOR ADDENDUM 10	2024-10-15
6	ISSUED FOR ADDENDUM 8	2024-10-07
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2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

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

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

Drawing
 No:
E-300



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

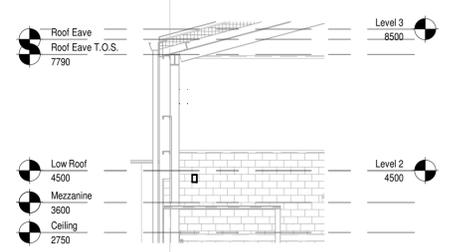
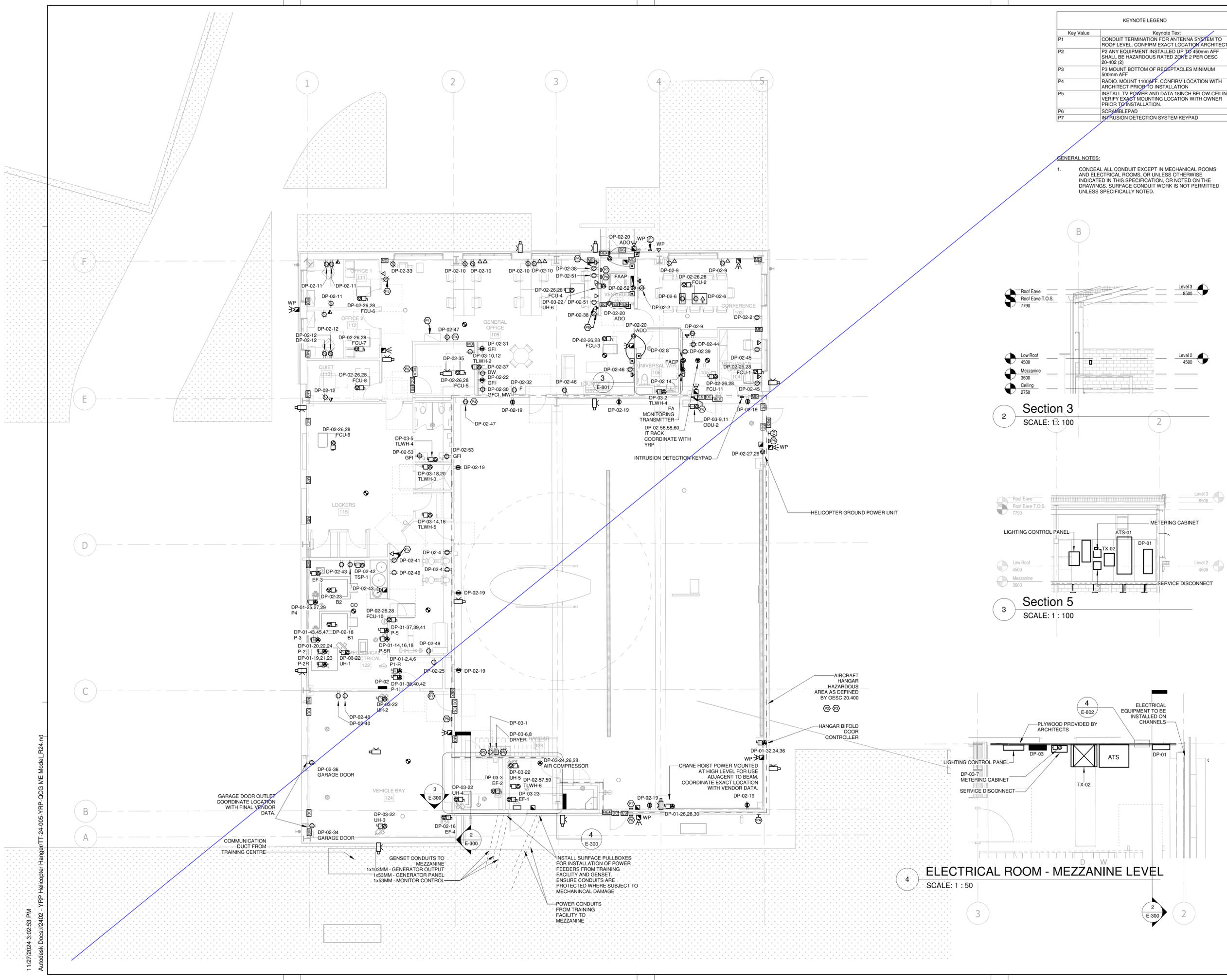
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

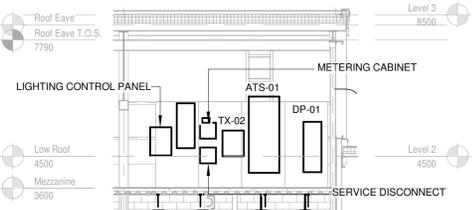
Key
Plan

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

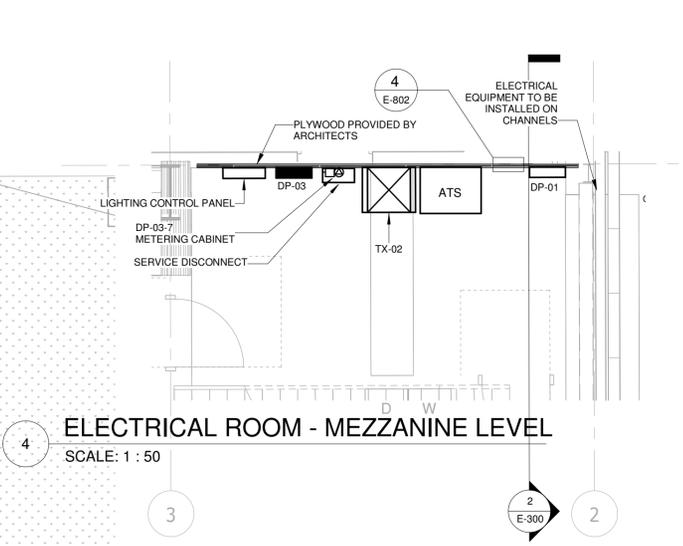
GENERAL NOTES:
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Section 3
SCALE: 1 : 100



Section 5
SCALE: 1 : 100



ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1 : 50

NO.	ISSUED	DATE
8	ISSUED FOR ADDENDUM 14	2024-11-27
7	ISSUED FOR ADDENDUM 10	2024-10-15
6	ISSUED FOR ADDENDUM 8	2024-10-07
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Issues

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Project No: TT-24-005
Scale: As indicated

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

Drawing
No:
E-300



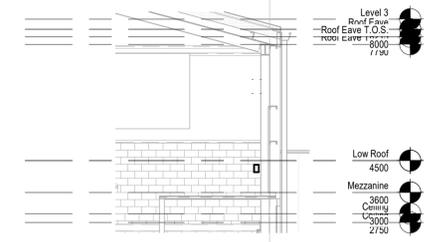
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

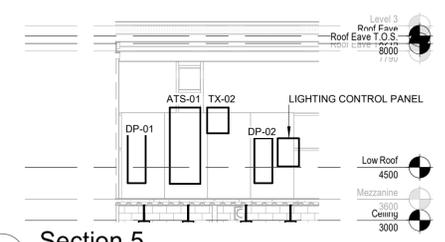
Key
Plan

Key Value	Keynote Text
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P2	P2 ANY EQUIPMENT INSTALLED UP TO 450mm AFF SHALL BE HAZARDOUS RATED ZONE 2 PER OESC 20-02 (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

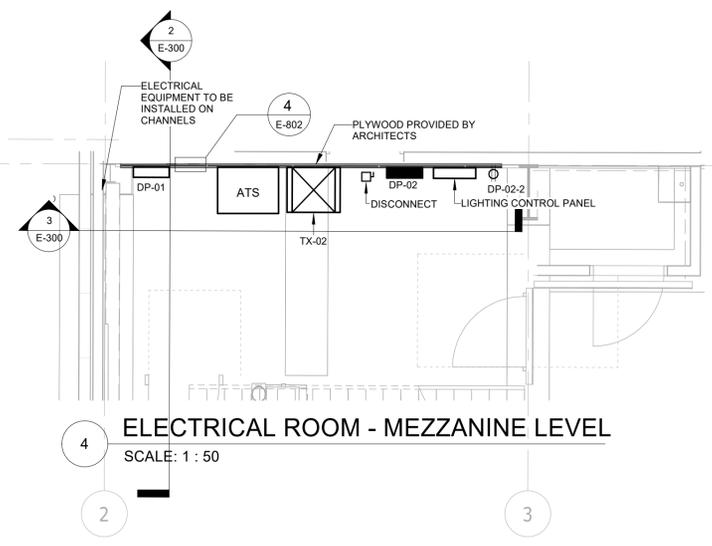
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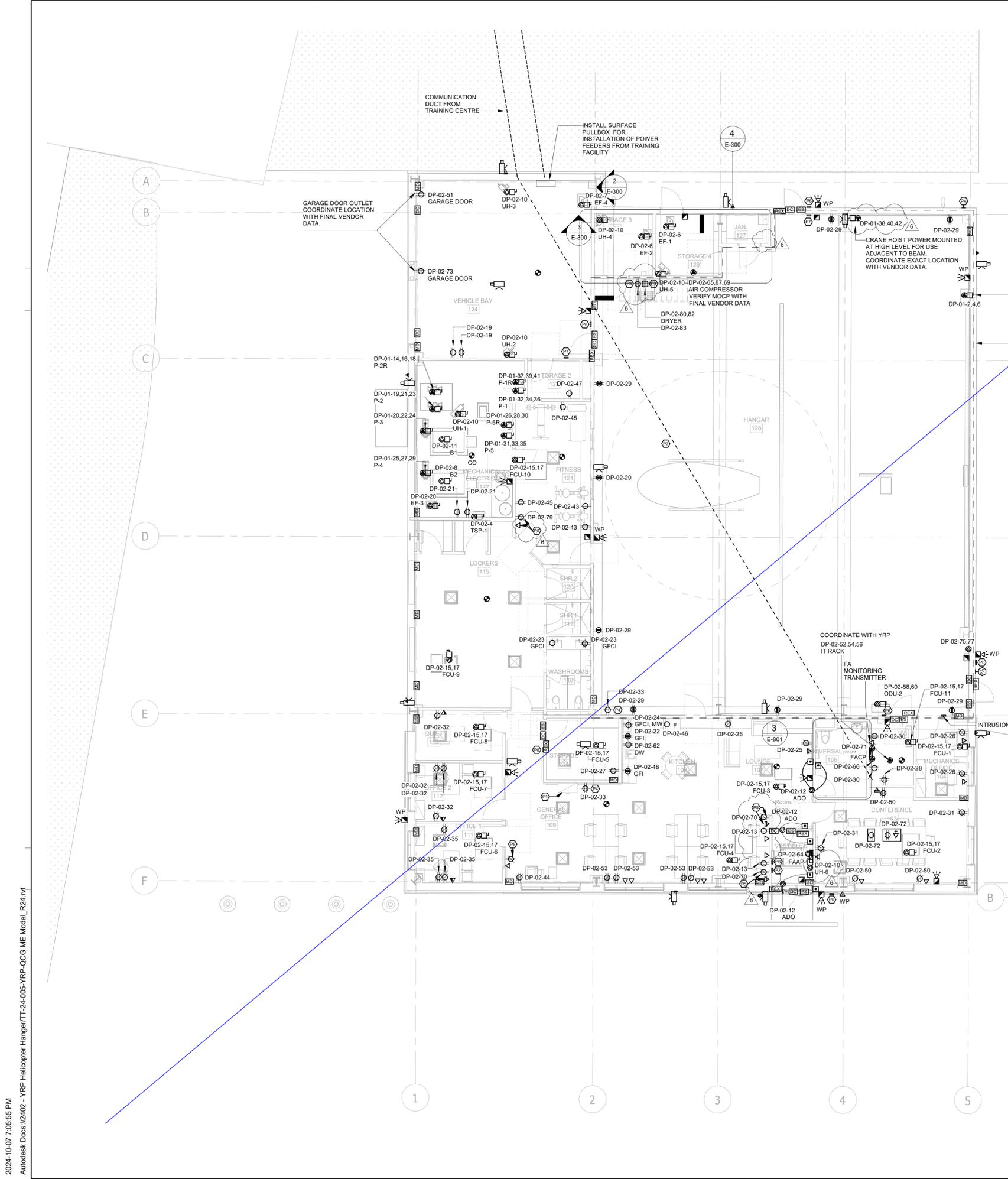
2 Section 3
SCALE: 1 : 100



3 Section 5
SCALE: 1 : 100



4 ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1 : 50



NO.	ISSUED	DATE
6	ISSUED FOR ADDENDUM 8	2024-10-07
5	ISSUED FOR ADDENDUM 6	2024-09-30
4	ISSUED FOR ADDENDUM 3	2024-09-23
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Project No: TT-24-005
Scale: As indicated

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

Drawing
No.
E-300



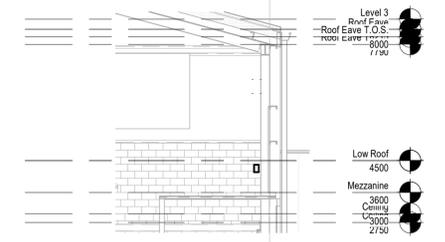
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
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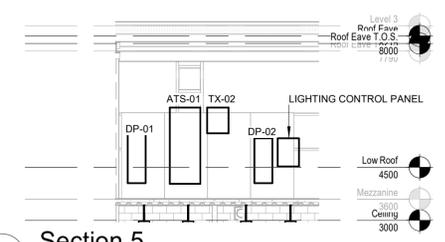
Key
Plan

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 20-02 (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

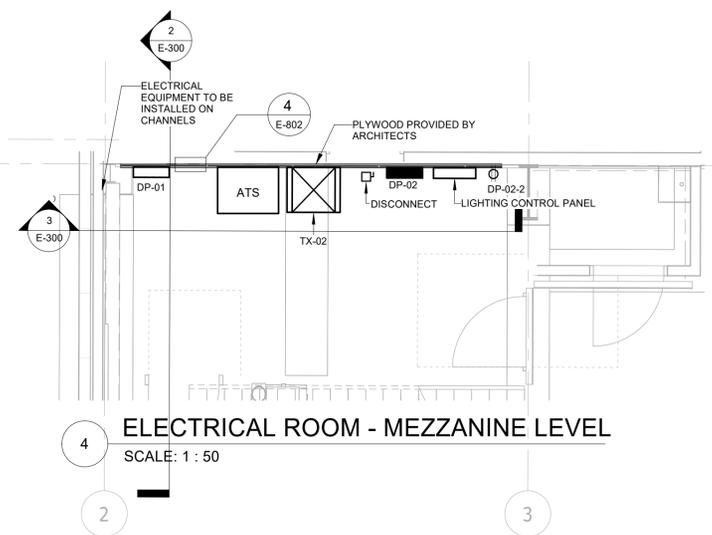
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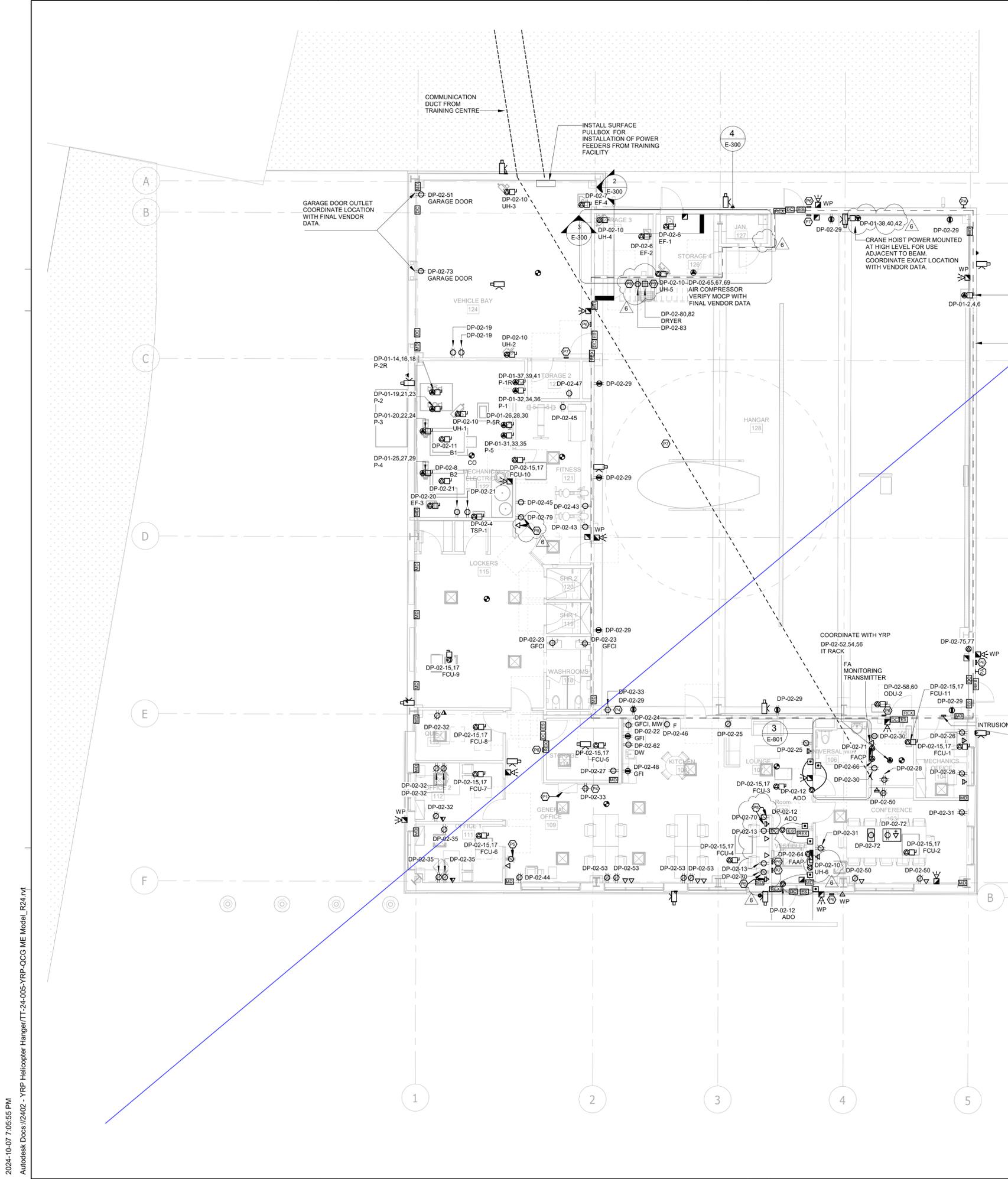
2 Section 3
SCALE: 1 : 100



3 Section 5
SCALE: 1 : 100



4 ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1 : 50



NO.	ISSUED	ISSUED FOR	DATE
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
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Sheet
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**POWER AND SYSTEMS
NEW WORK - GROUND
FLOOR**

Drawing
No.
E-300



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

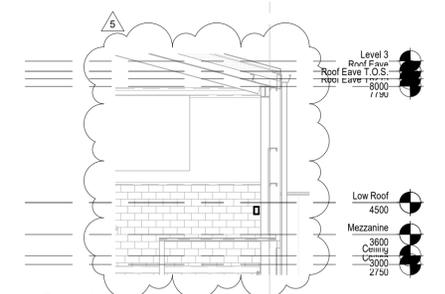
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
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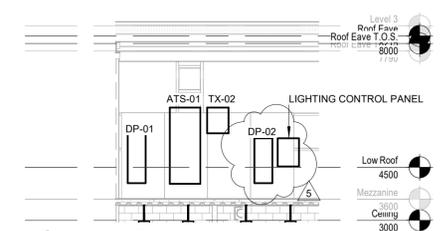
Key
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Key Value	Keynote Text
P1	CONDUIT TERMINATION FOR ANTENNA SYSTEM TO ROOF LEVEL. CONFIRM EXACT LOCATION ARCHITECT.
P2	P2 ANY EQUIPMENT INSTALLED UP TO 450mm AFF SHALL BE HAZARDOUS RATED ZONE 2 PER OESC 20-02 (2)
P3	P3 MOUNT BOTTOM OF RECEPTACLES 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

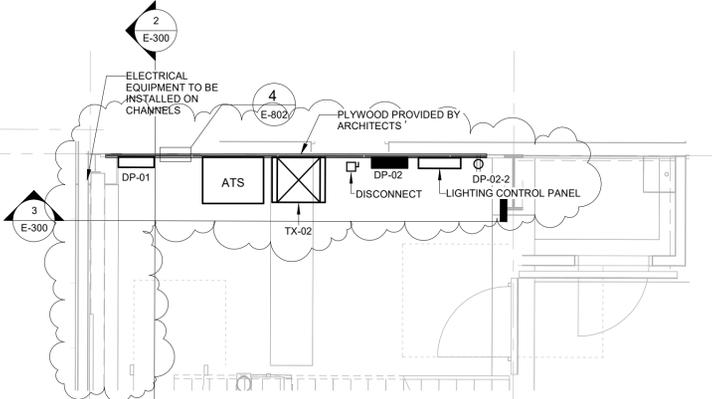
GENERAL NOTES:
1. CONCEAL ALL CONDUIT EXCEPT IN MECHANICAL ROOMS AND ELECTRICAL ROOMS, OR UNLESS OTHERWISE INDICATED IN THIS SPECIFICATION, OR NOTED ON THE DRAWINGS. SURFACE CONDUIT WORK IS NOT PERMITTED UNLESS SPECIFICALLY NOTED.



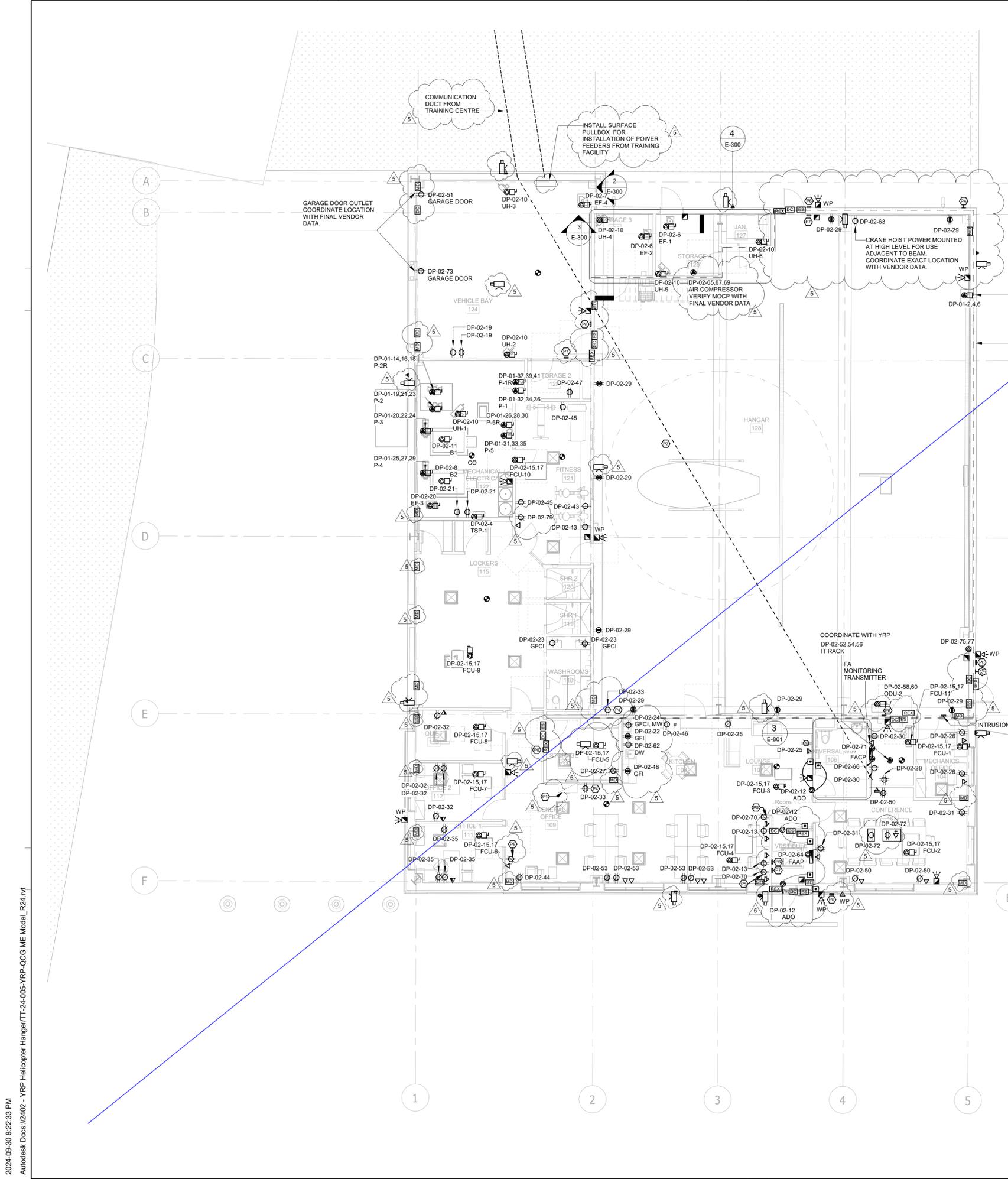
2 Section 3
SCALE: 1 : 100



3 Section 5
SCALE: 1 : 100



ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1 : 50



NO.	ISSUED	DATE
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
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: As indicated

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

Drawing
No.
E-300



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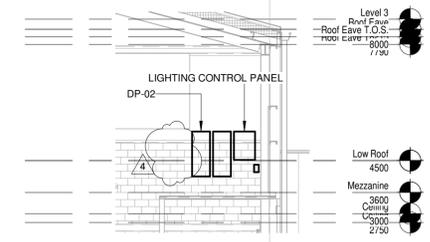
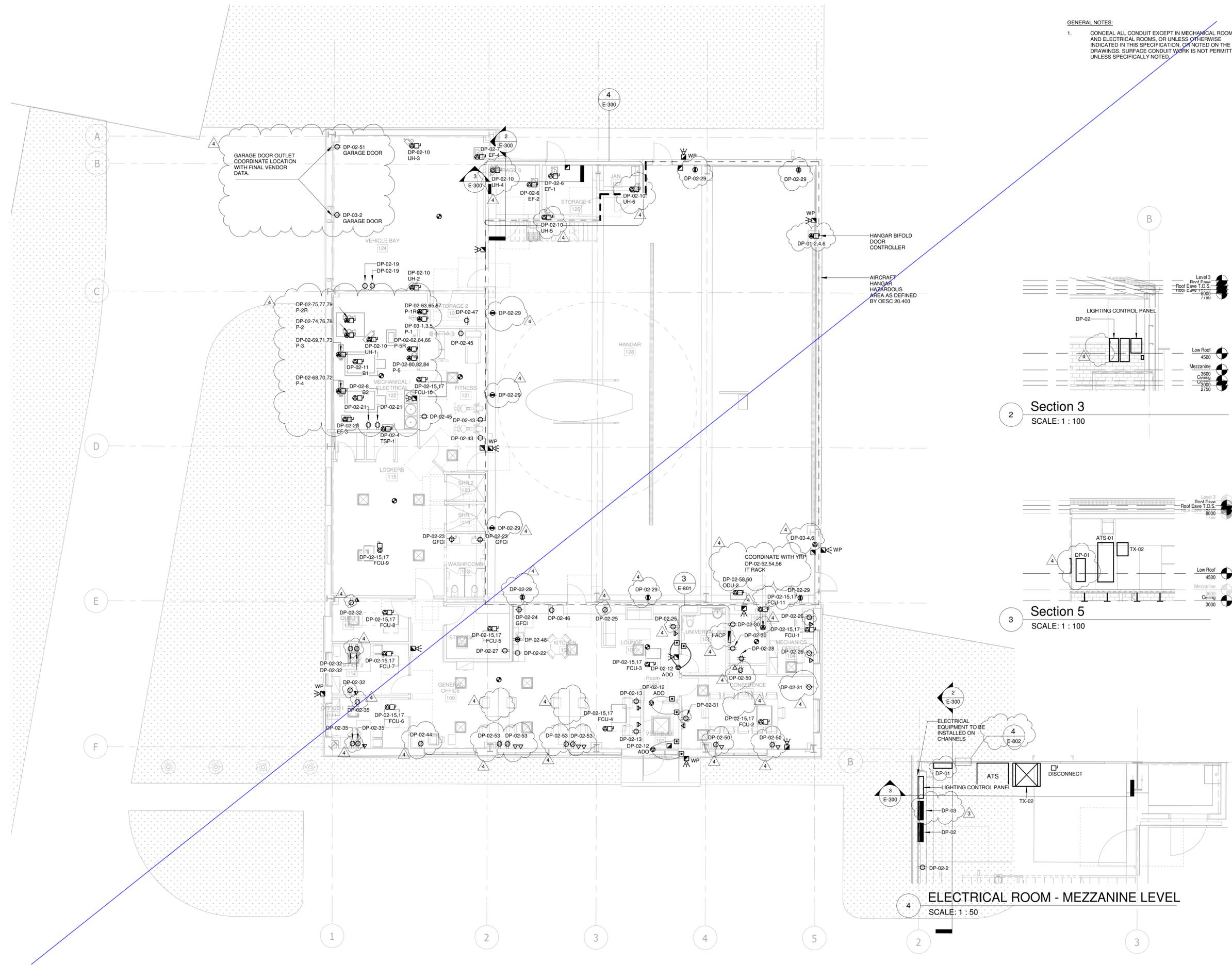
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

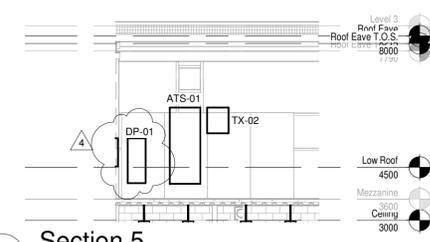
Key
Plan

GENERAL NOTES:

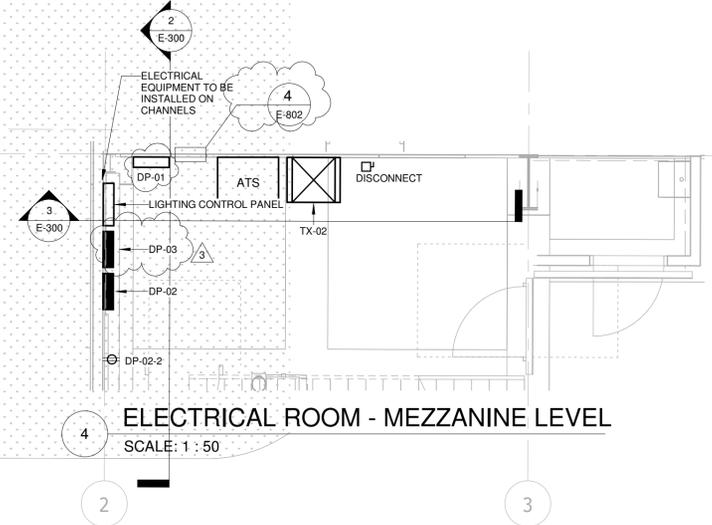
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2 Section 3
SCALE: 1 : 100



3 Section 5
SCALE: 1 : 100



4 ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1 : 50

NO.	ISSUED	DATE
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

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

Drawing
 No.
E-300



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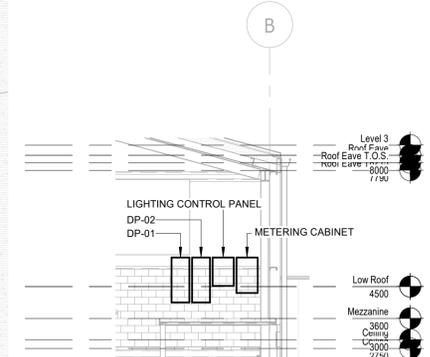
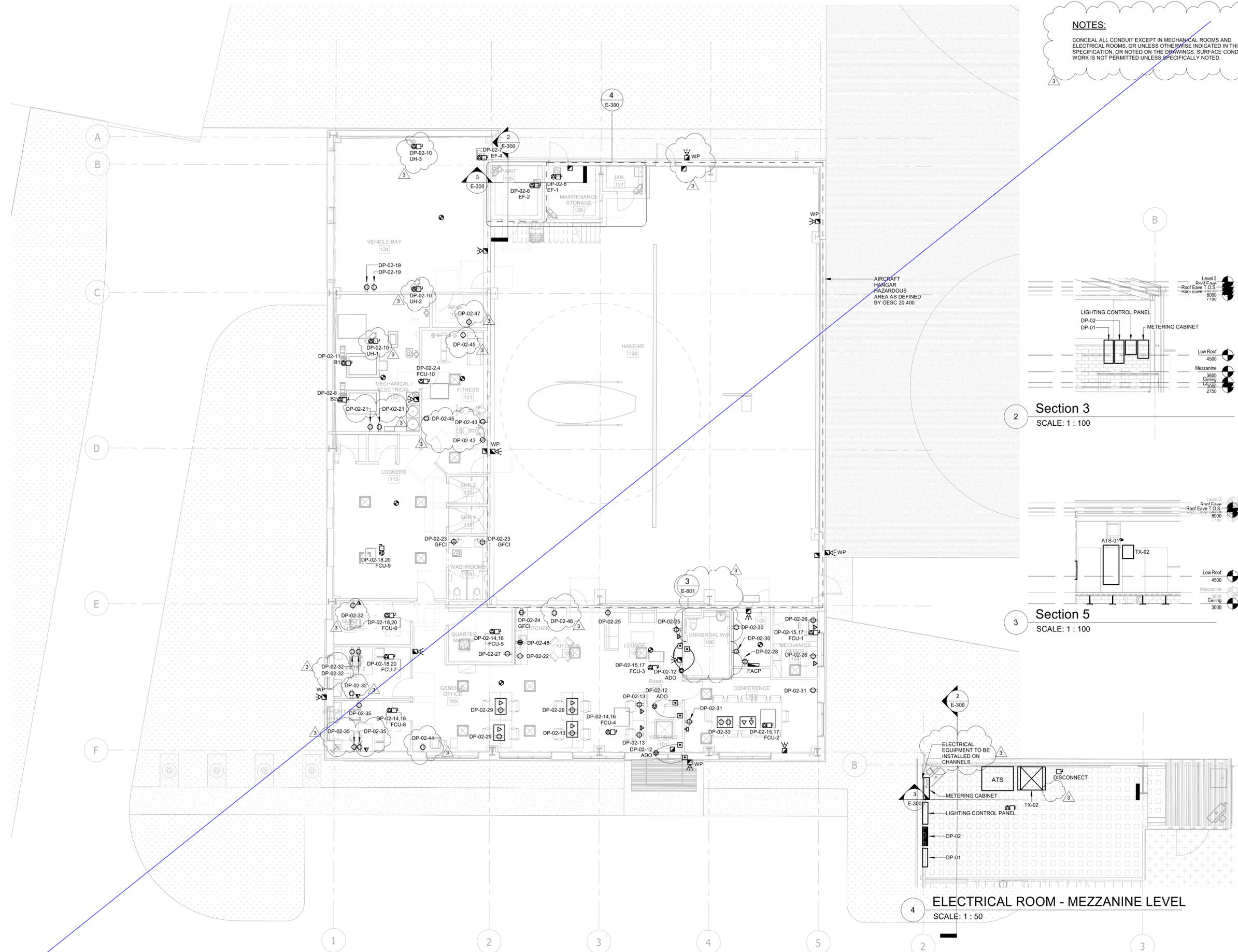
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

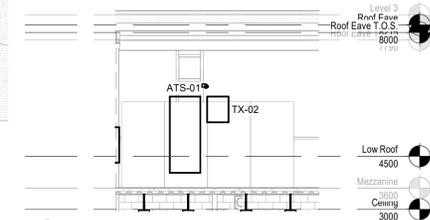
Key
Plan

NOTES:

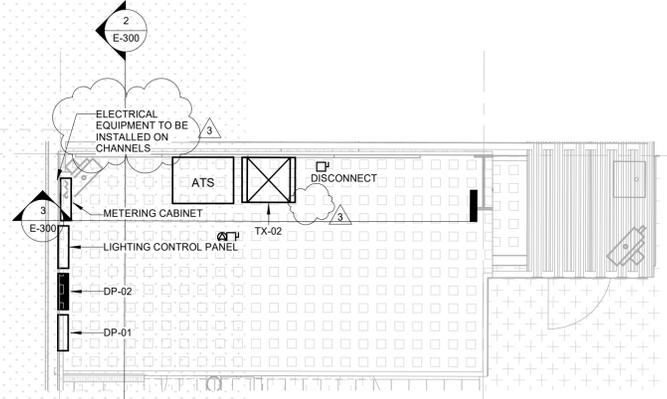
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Section 3
SCALE: 1 : 100



Section 5
SCALE: 1 : 100



ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1 : 50

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 1	2024-09-16
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

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

Drawing
No:
E-300

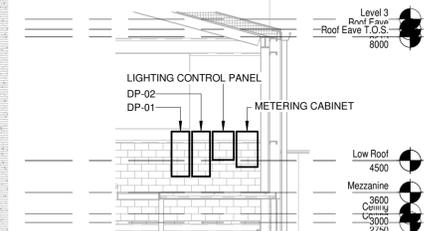
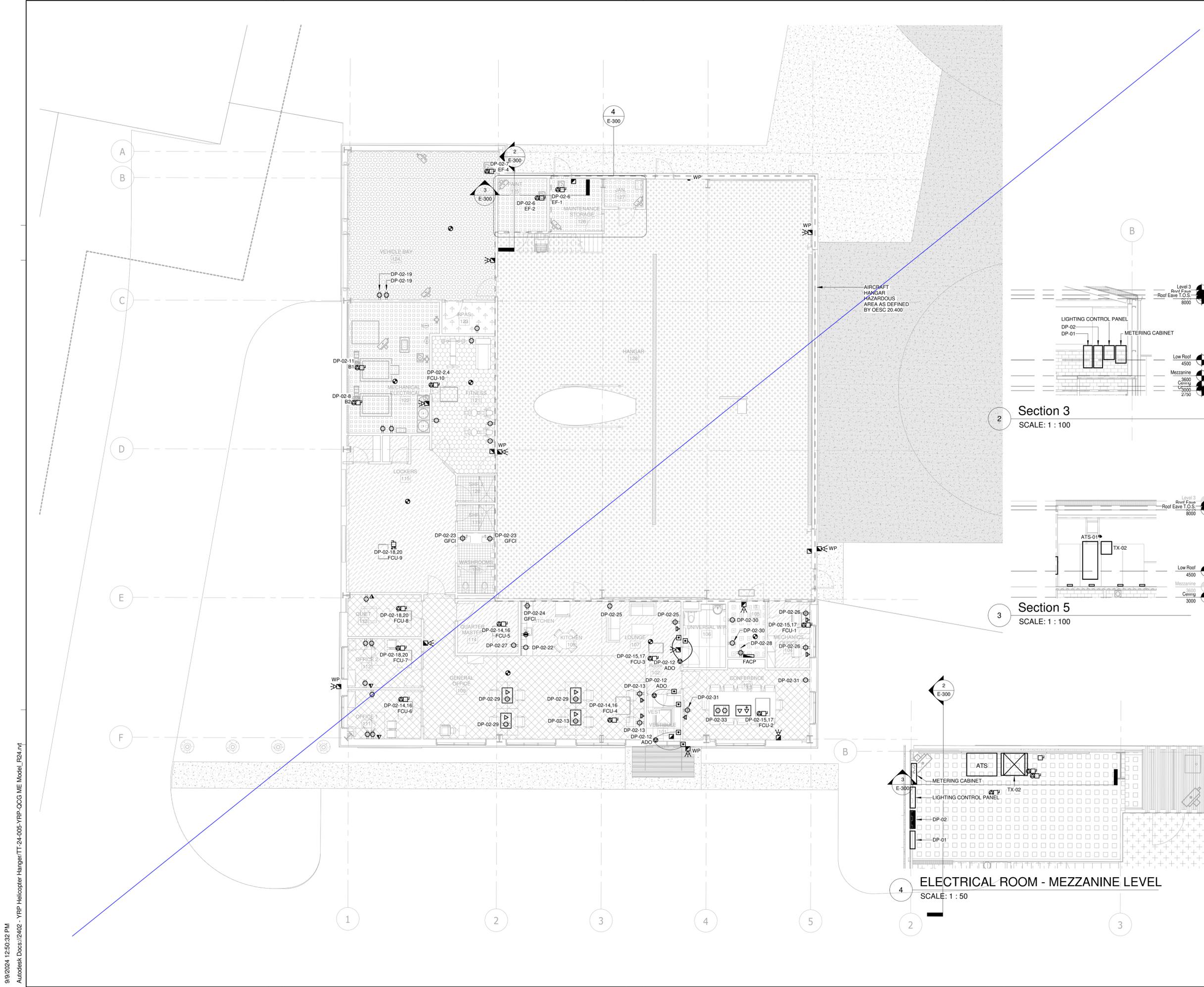


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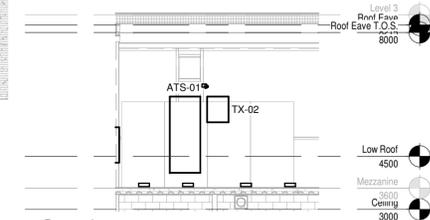
YORK REGIONAL POLICE HELICOPTER HANGAR

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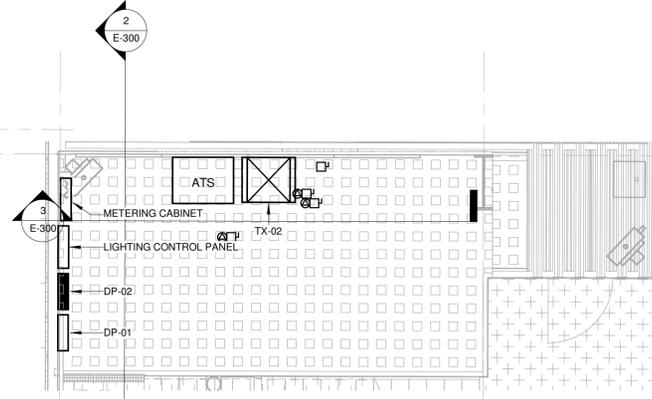
Key
Plan



Section 3
SCALE: 1 : 100



Section 5
SCALE: 1 : 100



ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1 : 50

NO.	ISSUED FOR TENDER	ISSUED FOR BUILDING PERMIT	ISSUED	DATE
2	ISSUED FOR TENDER			2024-09-09
1	ISSUED FOR BUILDING PERMIT			2024-07-31

Issues

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FLOOR**

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No.
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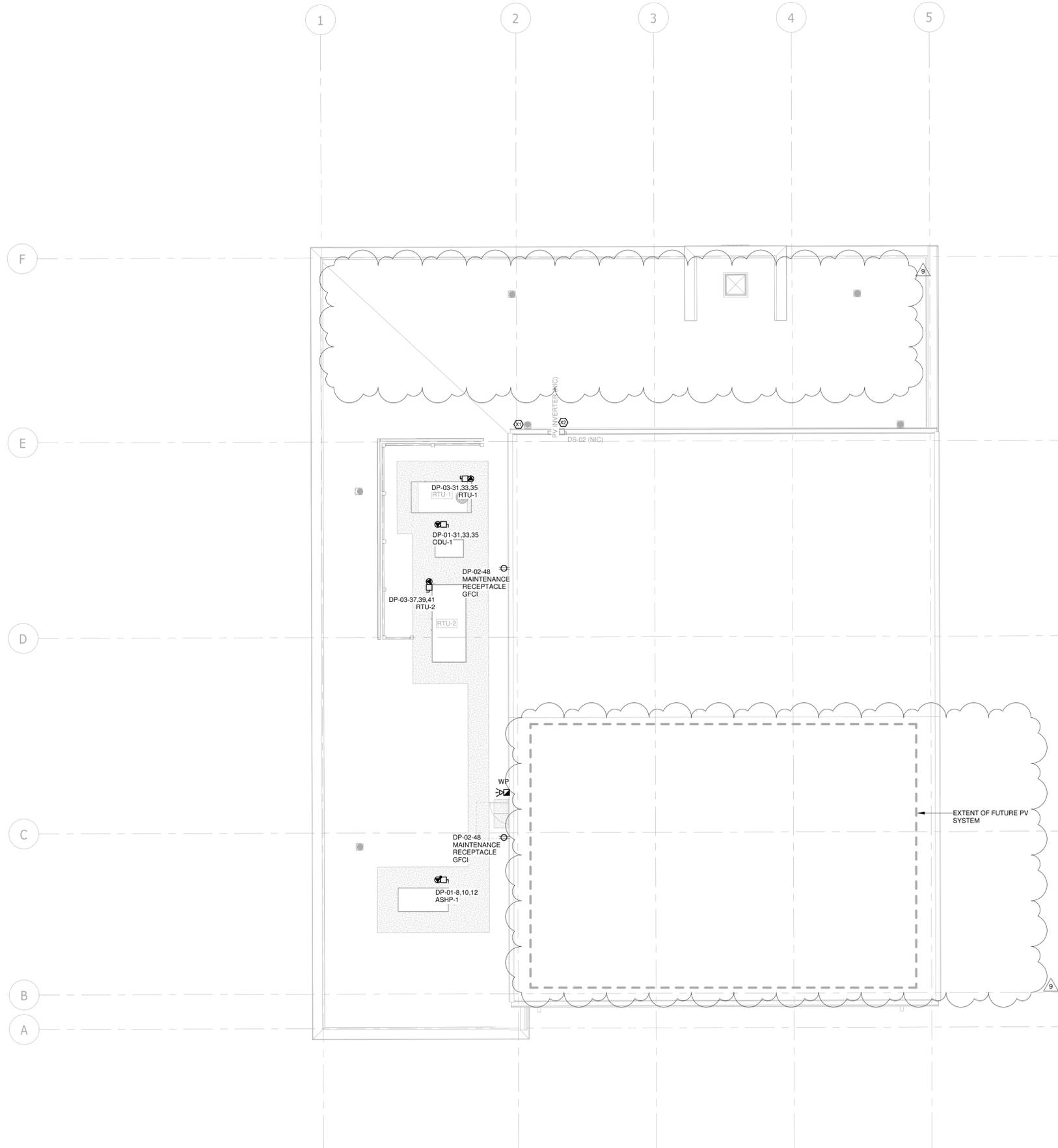
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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.



NO.	ISSUED	DATE
9	ISSUED FOR ADDENDUM 15	2024-12-04
8	ISSUED FOR ADDENDUM 14	2024-11-27
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
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 Original Issue Date: 2024-07-31
 Project No: TT-24-005
 Scale: 1 : 100

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

Drawing
 No:
E-301



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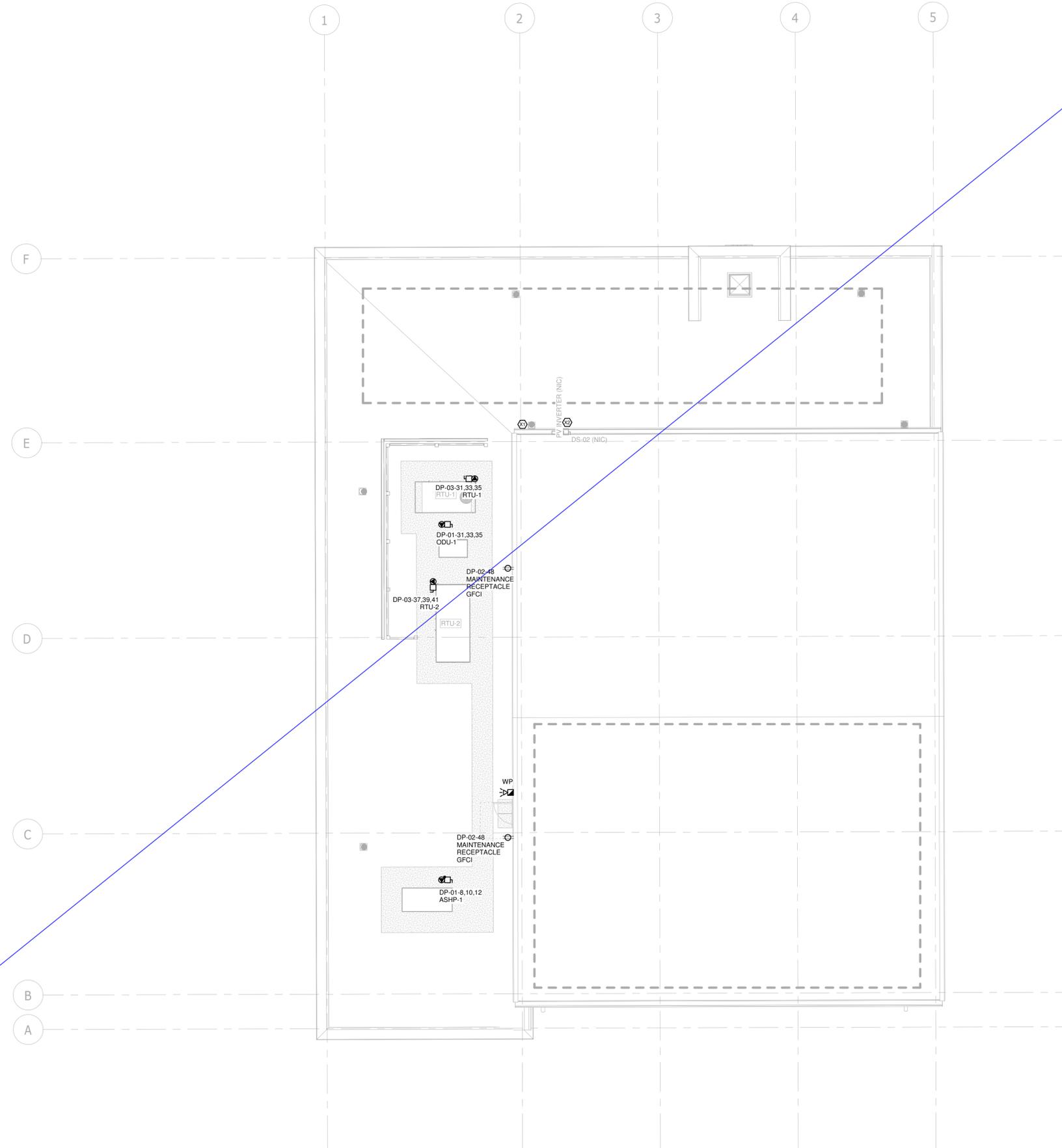
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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NO.	ISSUED	DATE
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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
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 Project No: TT-24-005
 Scale: 1 : 100

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

Drawing
 No:
E-301



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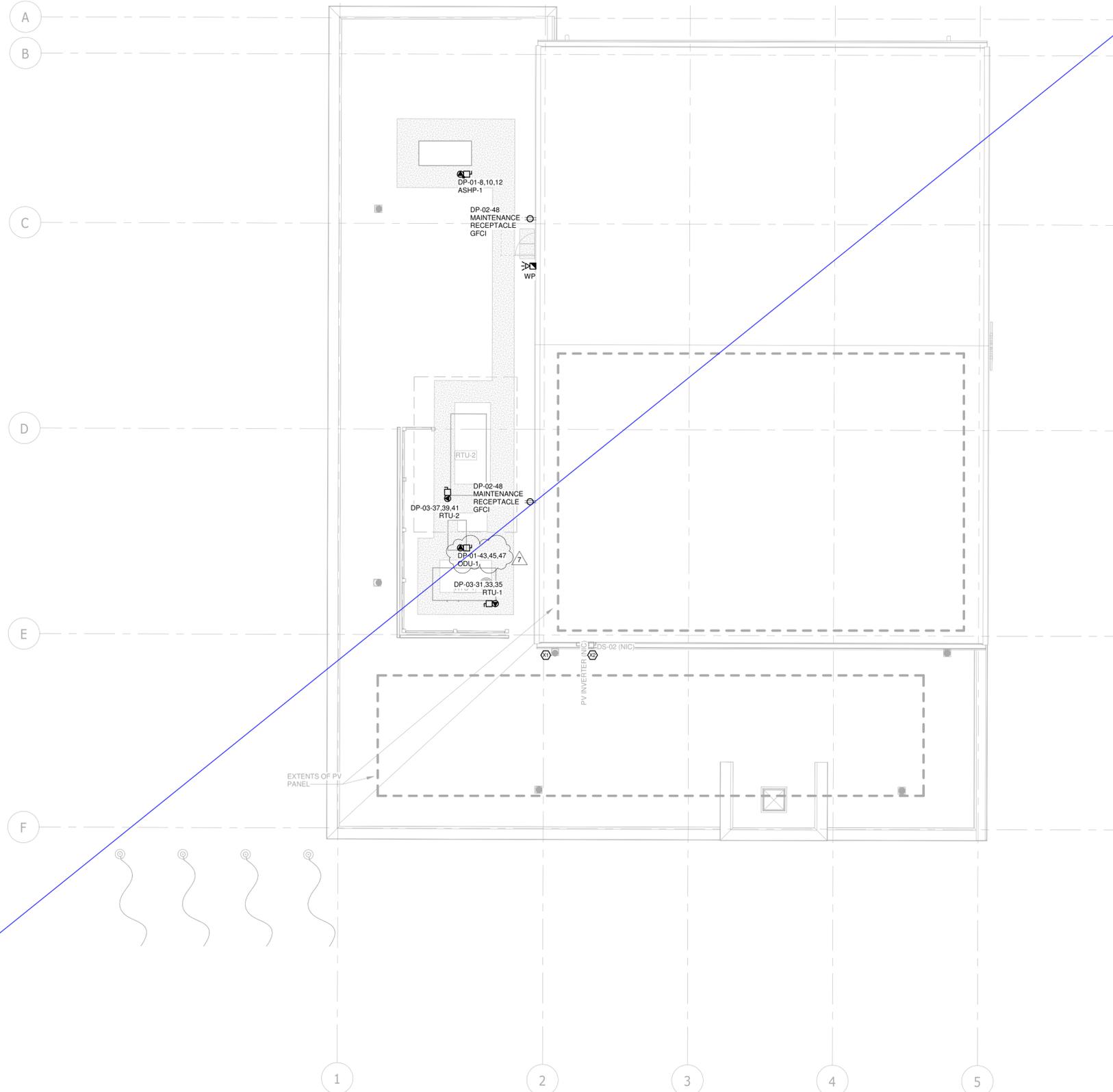
YORK REGIONAL POLICE HELICOPTER HANGAR

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BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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**POWER AND SYSTEMS
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PLAN**

Drawing
No:
E-301



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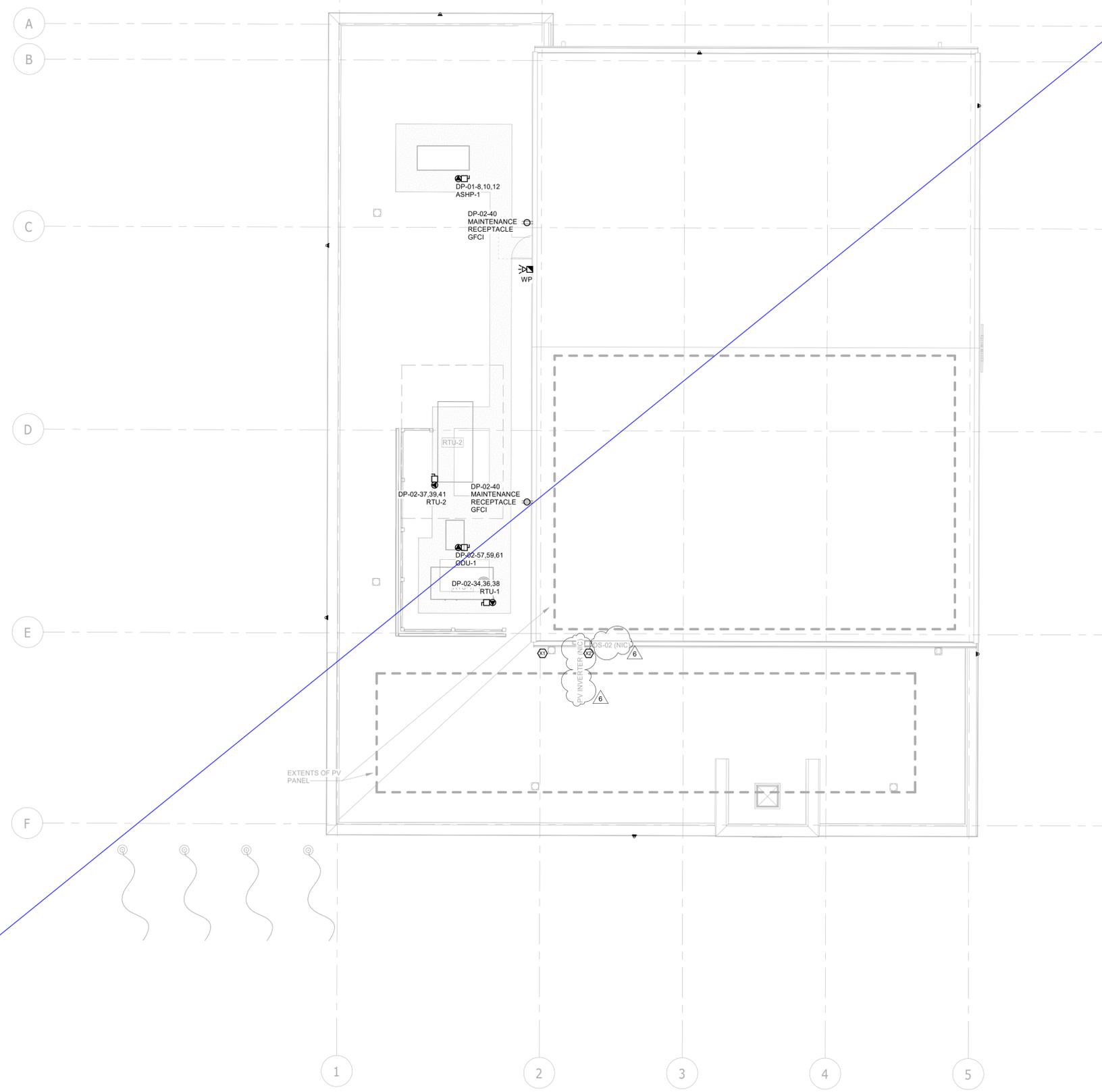
YORK REGIONAL POLICE HELICOPTER HANGAR

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Key
Plan

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NO.	ISSUED	DATE
6	ISSUED FOR ADDENDUM 8	2024-10-07
5	ISSUED FOR ADDENDUM 6	2024-09-30
4	ISSUED FOR ADDENDUM 3	2024-09-23
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Issues

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 Scale: 1 : 100

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

Drawing
 No:
E-301



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Key
Plan

NO.	ISSUED	DATE
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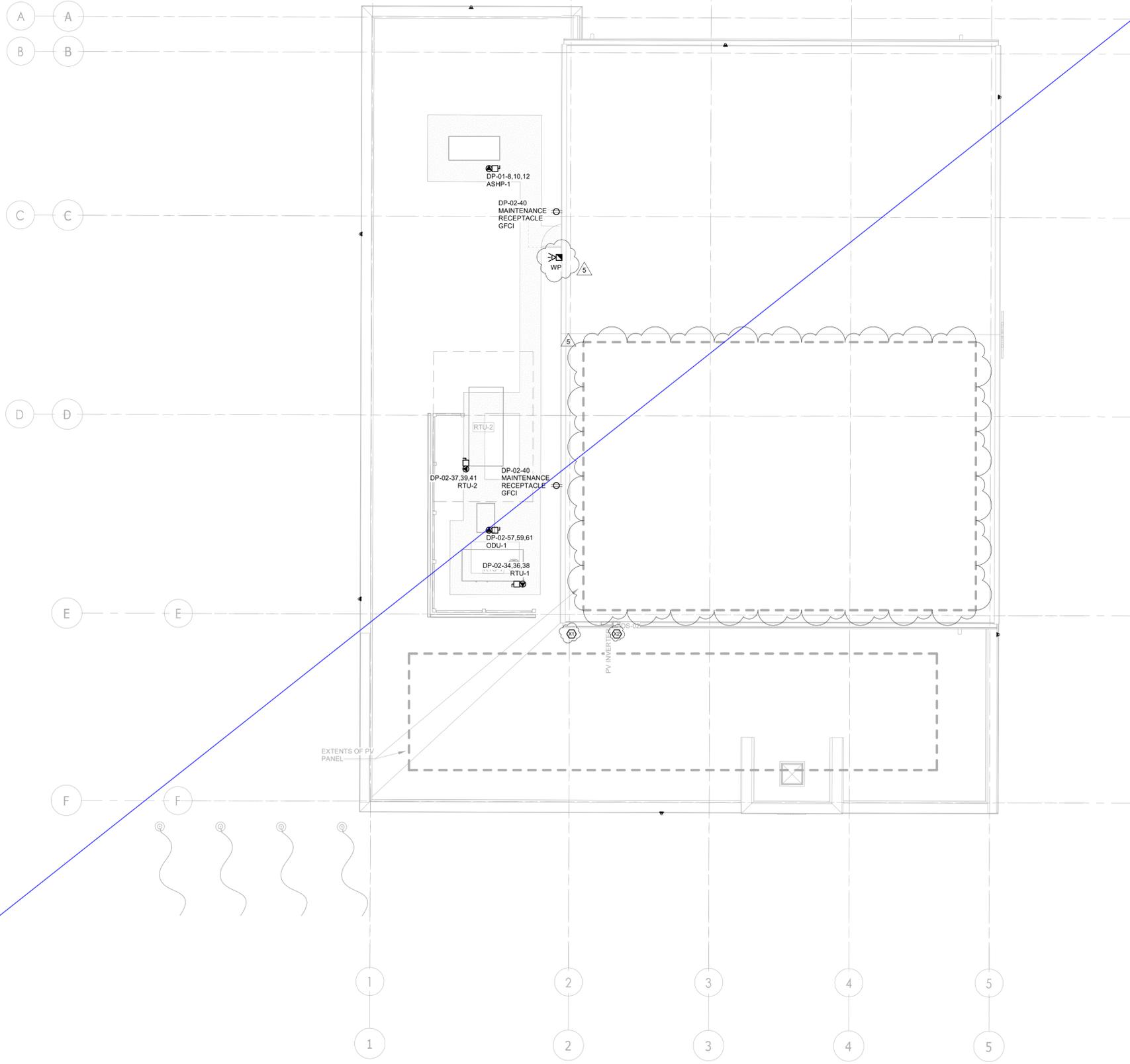
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Original Issue Date: 2024-07-31
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Sheet
Title:
**POWER AND SYSTEMS
NEW WORK - ROOF
PLAN**

Drawing
No:
E-301

KEYNOTE LEGEND	
Key Value	Keynote Text
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Key
Plan

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 1	2024-09-16
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

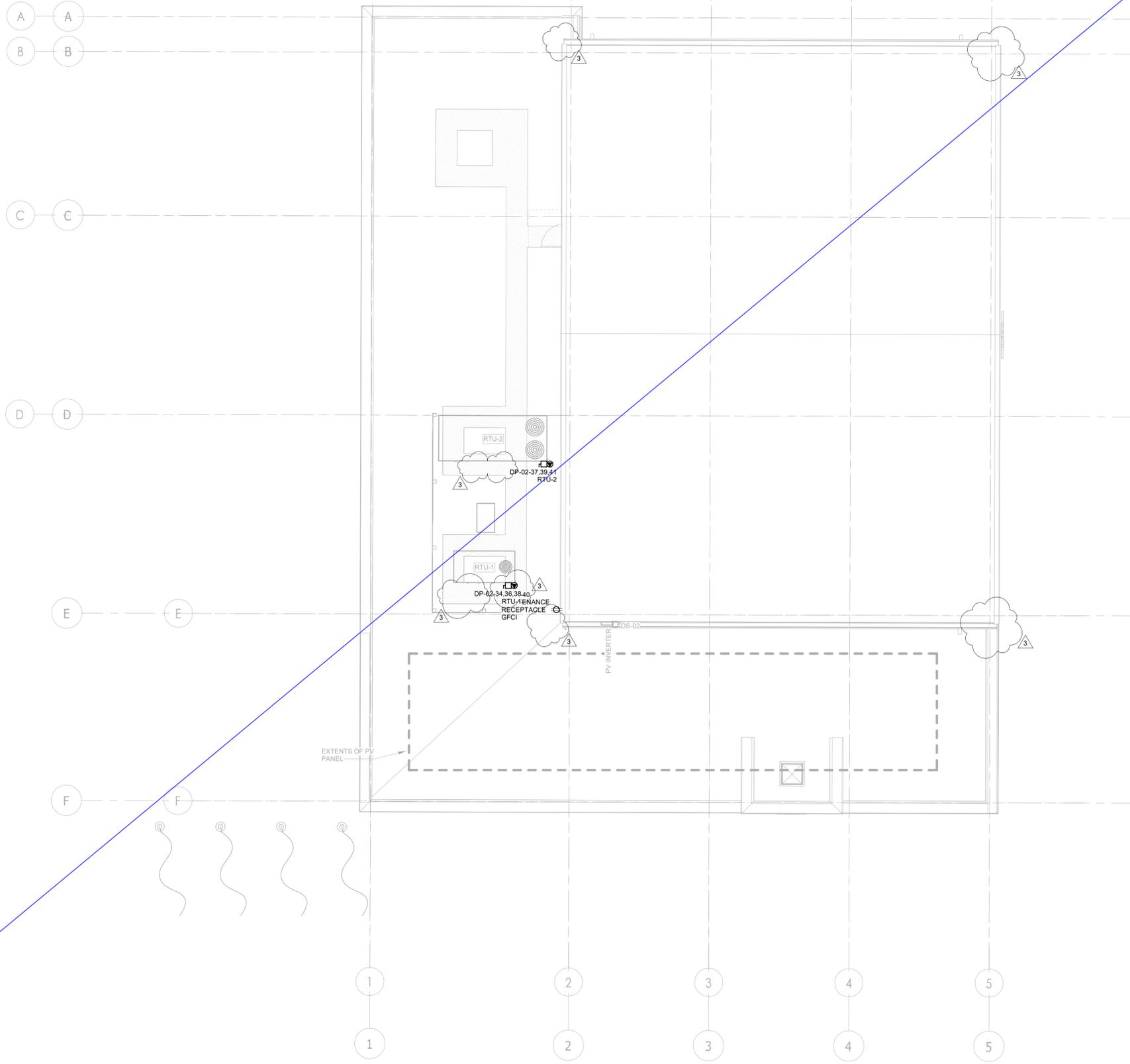
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**POWER AND SYSTEMS
NEW WORK - ROOF
PLAN**

Drawing
No:
E-301





YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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6	ISSUED FOR ADDENDUM 10	2024-10-15
5	ISSUED FOR ADDENDUM 8	2024-10-07
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

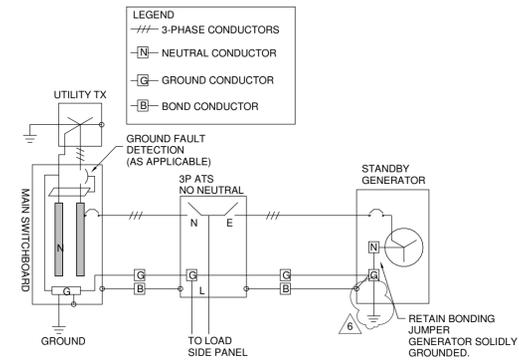
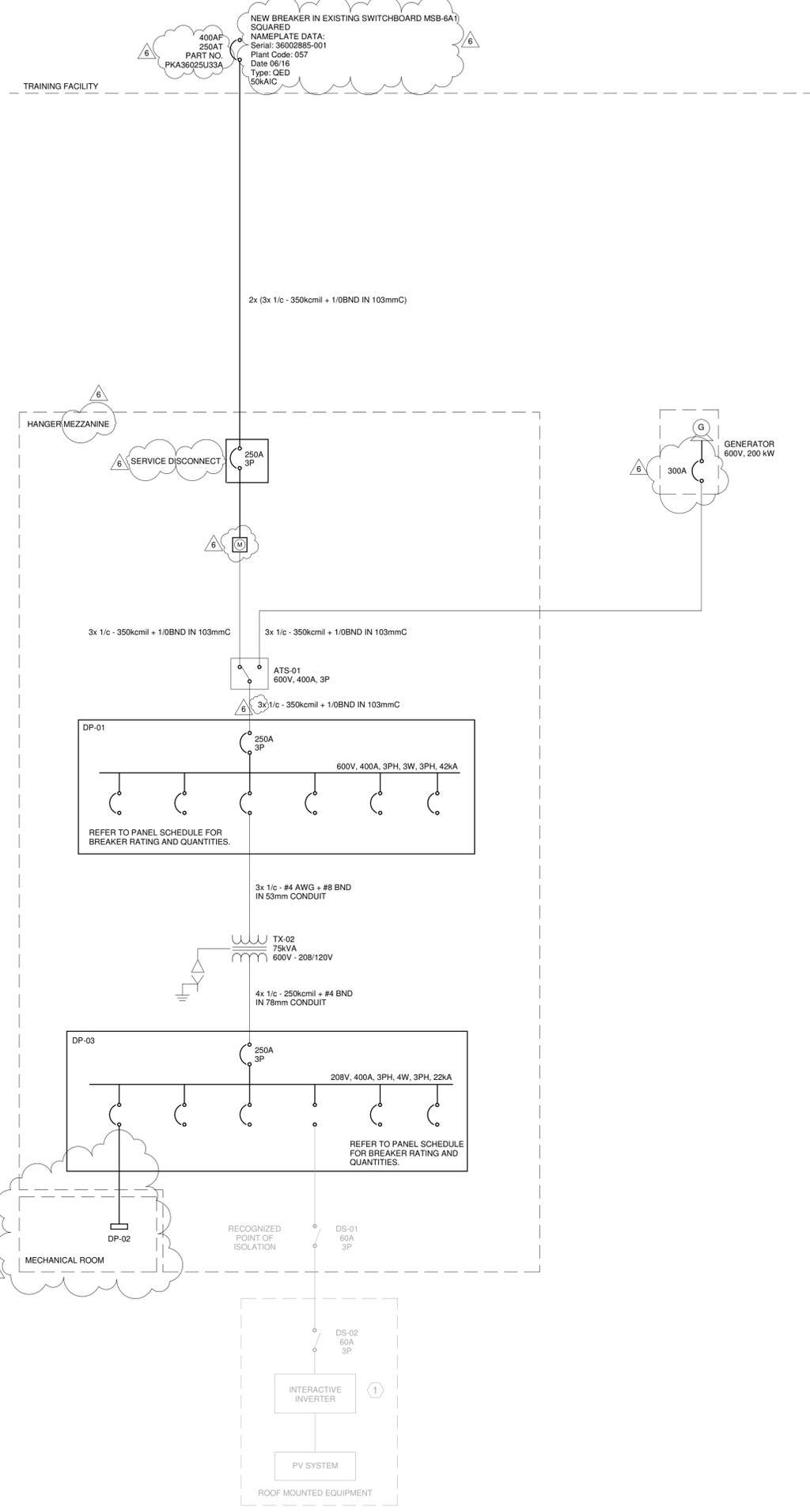
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Drawn by: ZK
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005

Sheet
Title:
**ELECTRICAL SINGLE
LINE DIAGRAM**

Drawing
No:
E-700

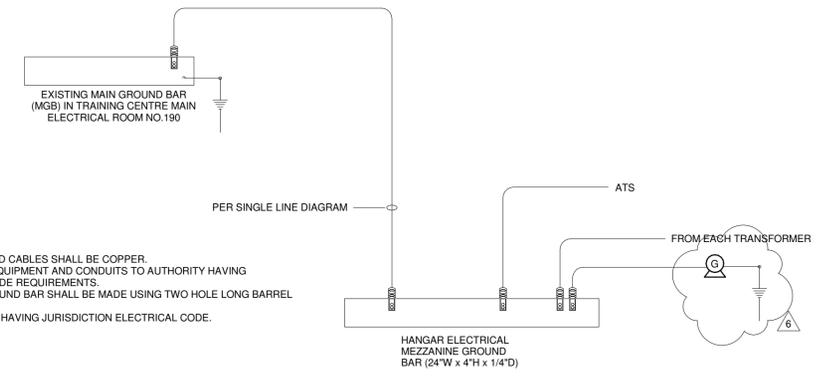


NOTES:
1. BOND CONDUCTOR TO BE SIZED IN ACCORDANCE WITH OESC TABLE 16.

4 TRANSFER SWITCH GROUNDING SCHEMATIC SCALE: 1 : 50

LOAD TAG	CONDUCTOR SIZE
ODU-1	3x 1/c - #4
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 - #6
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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BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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

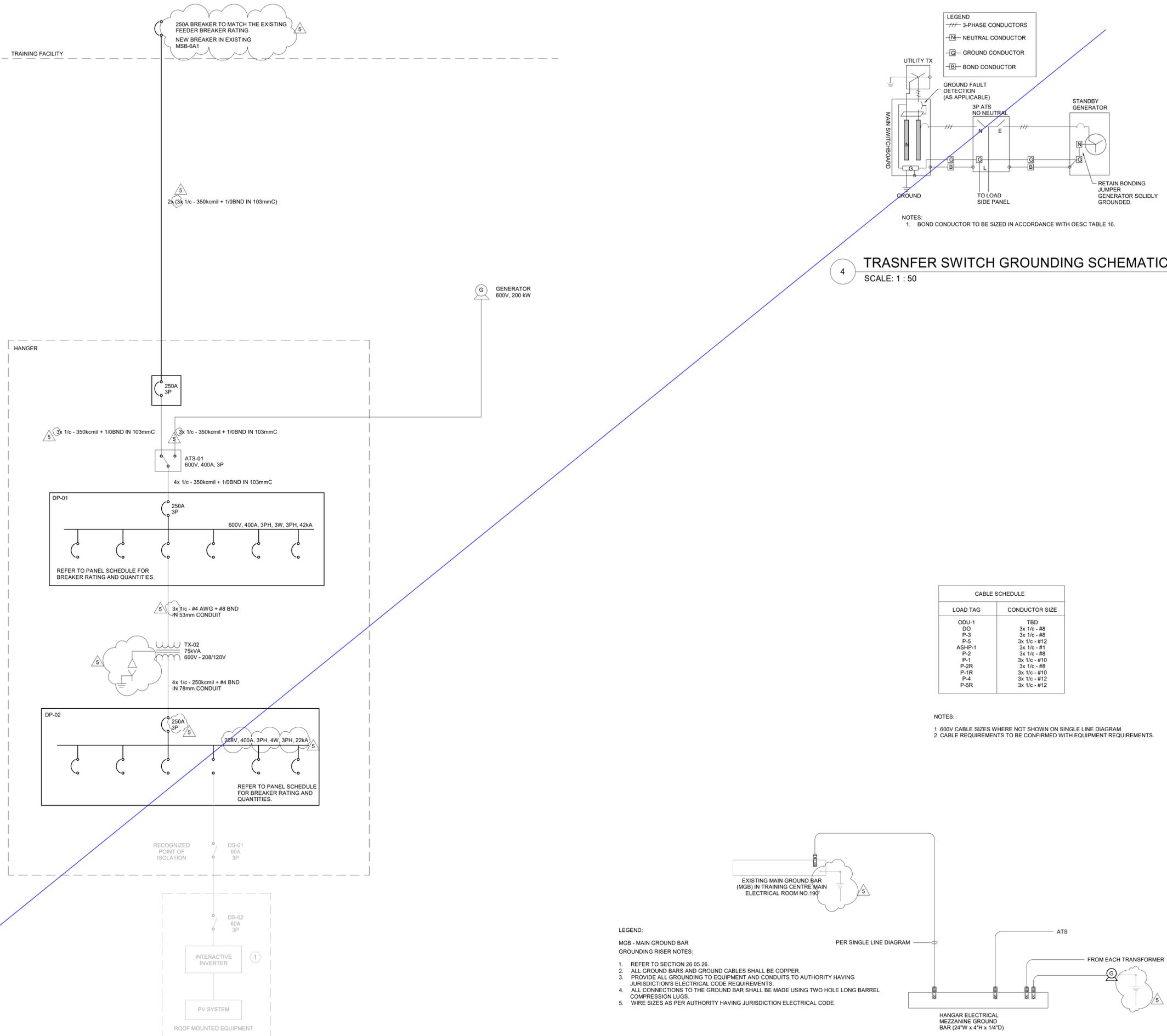
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Do not scale drawings

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

Sheet
Title:
**ELECTRICAL SINGLE
LINE DIAGRAM**

Drawing
No:
E-700



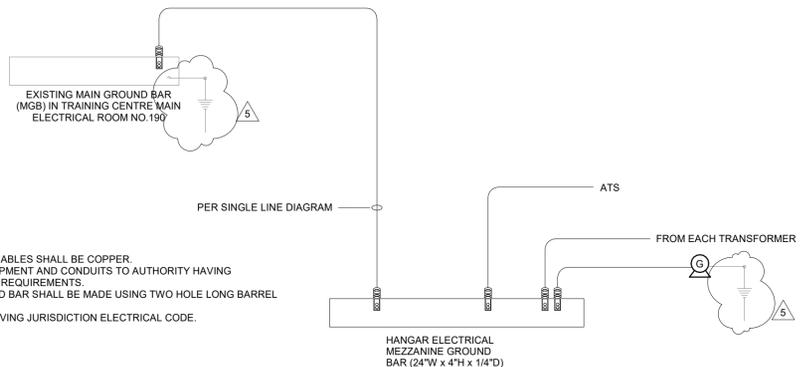
NOTES:
1. BOND CONDUCTOR TO BE SIZED IN ACCORDANCE WITH OESC TABLE 16.

4 TRANSFER SWITCH GROUNDING SCHEMATIC SCALE: 1 : 50

CABLE SCHEDULE	
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.

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2 Grounding Riser SCALE: N.T.S.



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1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

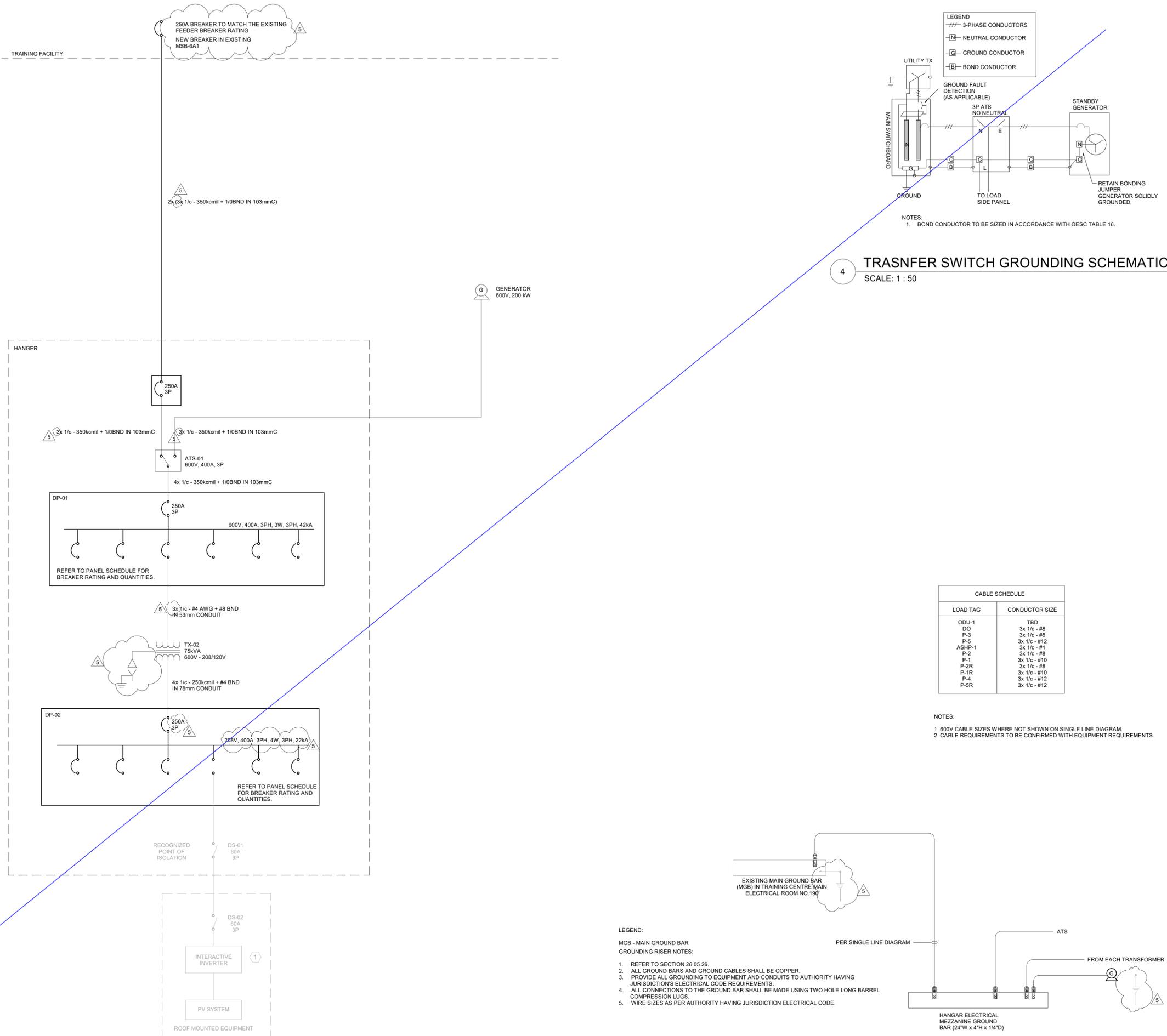
All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

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

Sheet
Title:
**ELECTRICAL SINGLE
LINE DIAGRAM**

Drawing
No:
E-700



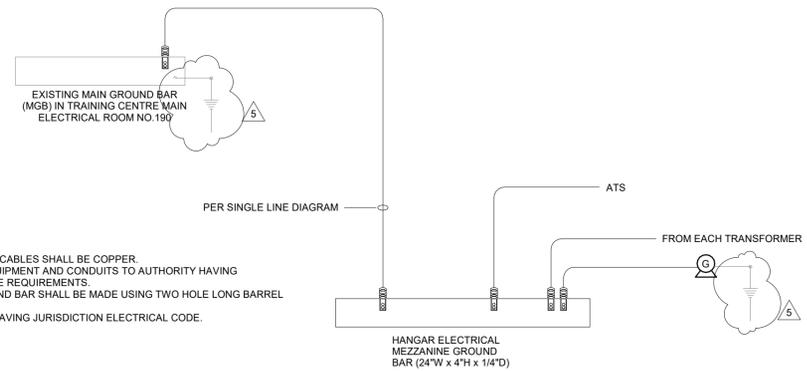
CABLE SCHEDULE	
LOAD TAG	CONDUCTOR SIZE
ODU-1	TBD
DO	3x 1/c - #8
P-3	3x 1/c - #8
P-5	3x 1/c - #12
ASHP-1	3x 1/c - #1
P-2	3x 1/c - #8
P-1	3x 1/c - #10
P-2R	3x 1/c - #8
P-1R	3x 1/c - #10
P-4	3x 1/c - #12
P-5R	3x 1/c - #12

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:

- 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.



2
Grounding Riser
SCALE: N.T.S.



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YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
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

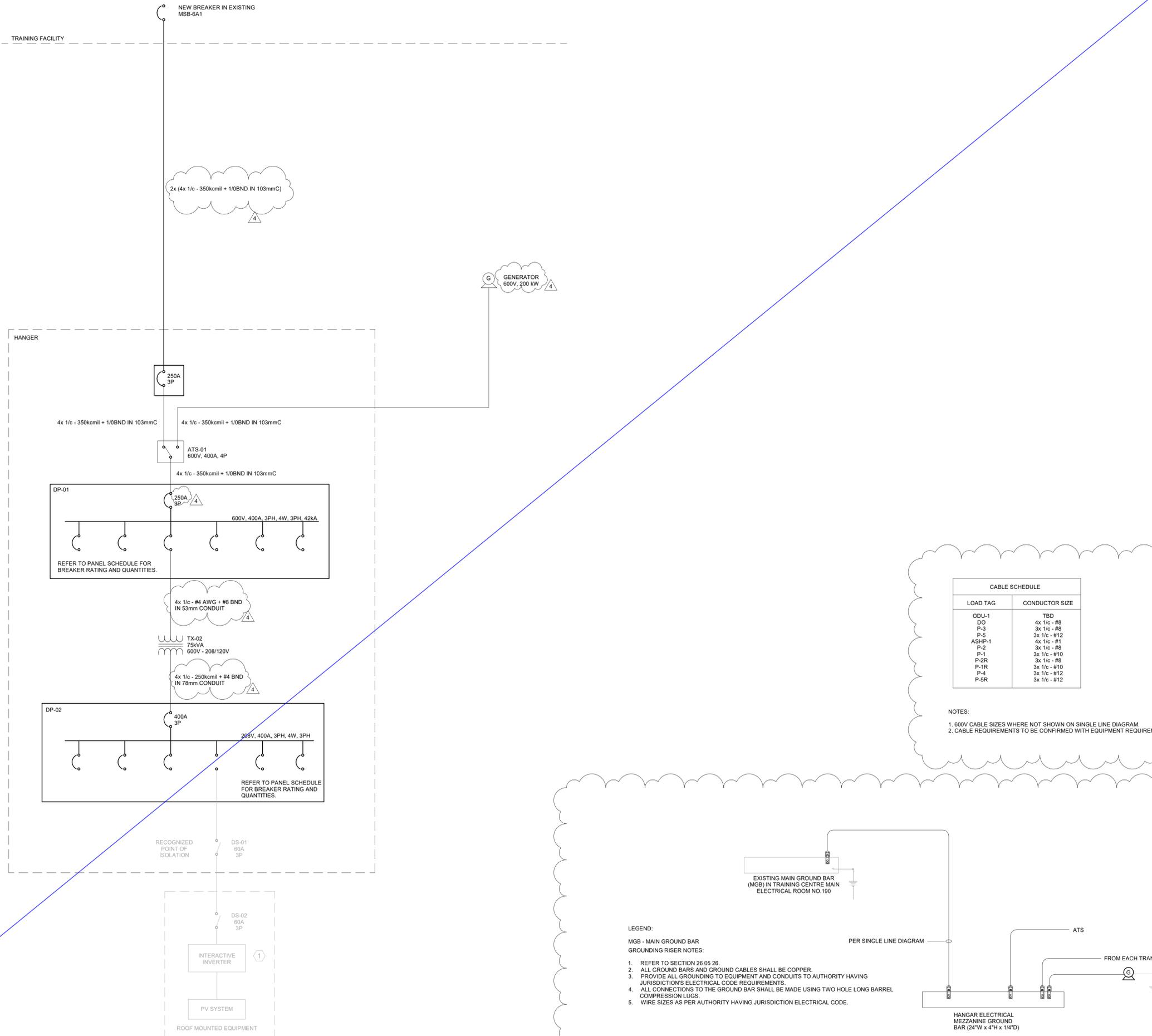
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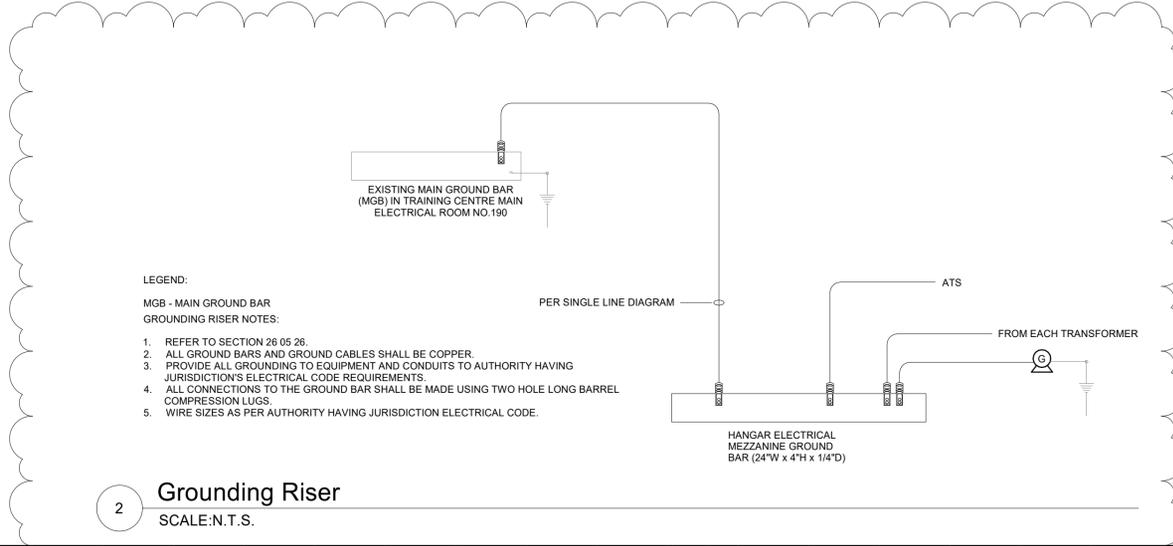
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**ELECTRICAL SINGLE
LINE DIAGRAM**

Drawing
No:
E-700



CABLE SCHEDULE	
LOAD TAG	CONDUCTOR SIZE
ODU-1	TBD
DO	4x 1/c - #8
P-3	3x 1/c - #8
P-5	3x 1/c - #12
ASHP-1	4x 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:
- 600V CABLE SIZES WHERE NOT SHOWN ON SINGLE LINE DIAGRAM.
 - CABLE REQUIREMENTS TO BE CONFIRMED WITH EQUIPMENT REQUIREMENTS.



2 **Grounding Riser**
SCALE: N.T.S.



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YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
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

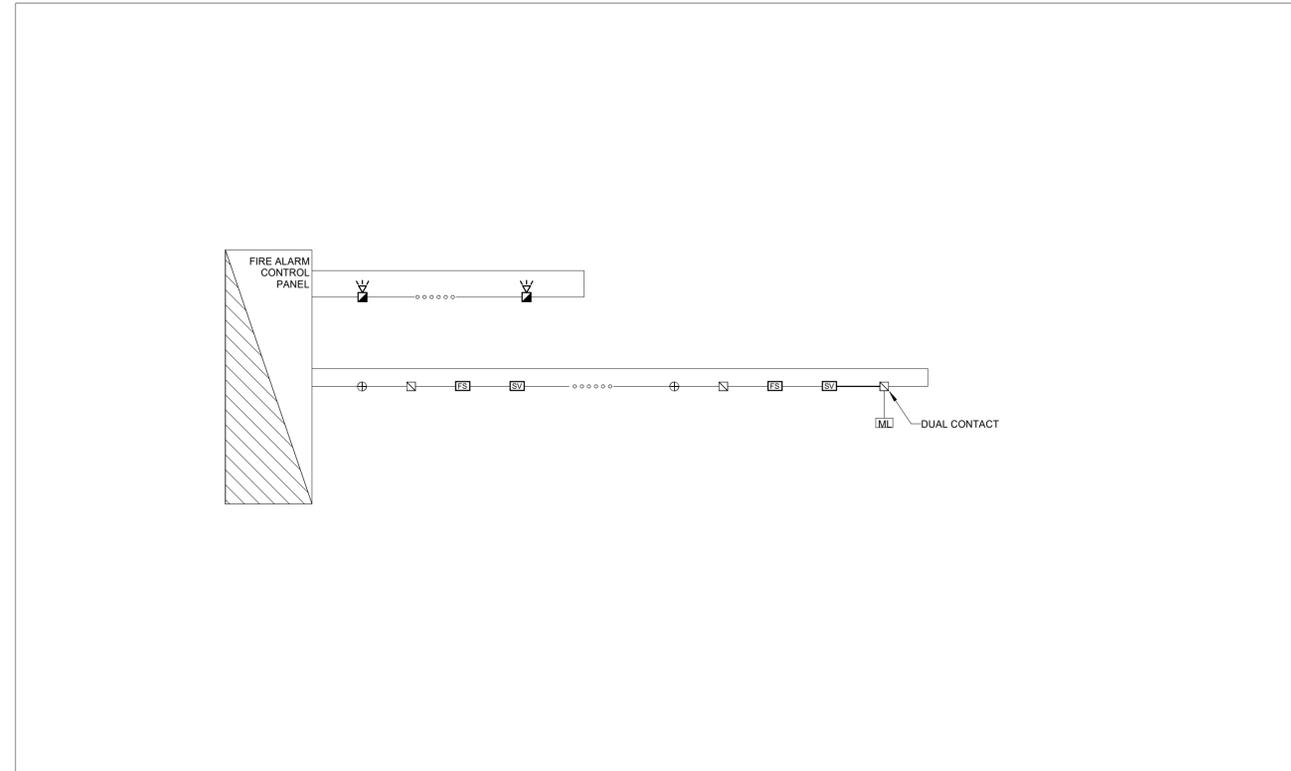
Do not scale drawings

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

Sheet
Title: **FIRE ALARM RISER**

Drawing
No: **E-701**

- GENERAL NOTES
- FOR EXACT QUANTITY AND LOCATION OF F/A DEVICES & ZONES, REFER TO FLOOR PLANS DRAWINGS AND/OR SCHEDULES FOR DETAILS. FLOOR PLANS TO GOVERN.
 - PROVIDE 1 h FIRE RATED CONDUCTORS FOR MAIN FIRE/ALARM CONTROL AND POWER FEEDERS AS SPECIFIED. WHERE BRANCH HORIZONTAL FEEDERS FOR A ZONE PASS THROUGH ANOTHER ZONE, MAINTAIN FIRE RATING SPECIFIED.
 - LOCATION OF FIRE ALARM DEVICES IN THE MECHANICAL ROOMS AND OTHER OPEN CEILING SPACE AREAS WILL BE DETERMINED DURING CONSTRUCTION AT THE SITE. THEY MUST BE VISIBLE AND ACCESSIBLE.
 - NO FOREIGN 120 VOLT WIRING WILL BE ALLOWED IN THE FIRE ALARM PANELS, EXCEPT THE MAIN POWER SUPPLY. WHERE AUXILIARY DEVICES OR SYSTEMS ARE CONNECTED TO THE FIRE ALARM SYSTEM (EX. FAN SHUTDOWN, DAMPER CONTROL, ELEVATOR CONTROL, MAGNETIC LOCKS, DOOR HOLDERS, ETC.) THEY ARE TO BE CONNECTED THROUGH DOUBLE VOLTAGE RELAYS. THE FIRE ALARM SIDE TO BE 24 VOLT.
 - INSTALL DUCT TYPE SMOKE DETECTOR INCLUDING SAMPLING TUBES WHERE SHOWN ON MECHANICAL DRAWINGS. IT WILL BE THE RESPONSIBILITY OF THE MANUFACTURER TO PROVIDE LOCATION OF DETECTORS FOR THEIR CORRECT OPERATION.
 - AT BUILDING EXPANSION JOINTS PROVIDE CONDUITS ON BOTH SIDES OF THE JOINT AND CONNECT THEM WITH FLEXIBLE METAL CONDUITS AND GROUND WIRE.
 - THE LOCATIONS OF DEVICES SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT LOCATIONS ARE TO BE DETERMINED ON SITE DURING CONSTRUCTION.
 - ALL ELECTROMAGNETIC LOCK DEVICES ARE TO RELEASE IMMEDIATELY UPON LOSS OF POWER CONTROLLING THE ELECTROMAGNETIC LOCKING MECHANISM AND ASSOCIATED AUXILIARY CONTROLS. ALSO UPON A FAULT BEING DETECTED IN THE ELECTRICAL CIRCUIT BETWEEN THE FIRE ALARM TRANSDUCER PANEL (FATP) AND THE CONTROLLER OF LOCKING DEVICE, AND OPERATION OF MANUAL FIRE ALARM PULL STATION LOCATED NOT MORE THAN 600mm FROM THE DOOR. PROVIDE A MANUALLY OPERATED SWITCH AS NOTED ON DRAWING TO RELEASE ALL ELECTROMAGNETIC LOCKING DEVICES. UPON RELEASE THE LOCKING DEVICES MUST BE RESET MANUALLY BY THE ACTUATION OF THE ABOVE SWITCH, AS PER OBC 3.4.6.16. ALSO PROVIDE A BYPASS SWITCH FOR TESTING OF THE FIRE ALARM SYSTEM.
 - A LEGIBLE SIGN CONTAINING THE WORDS "EMERGENCY EXIT UNLOCKED BY FIRE ALARM" SHALL BE PERMANENTLY MOUNTED ON THE DOORS CONTROLLED BY THE MAGLOCKS. THE LETTERING ON THE SIGN TO BE AT LEAST 25mm HIGH WITH A 5mm STROKE, AS PER OBC 3.4.6.16(4). THE SIGN TO BE RED LAMACOID WITH WHITE LETTERING.
 - THE OPERATION OF ANY BY-PASS SWITCH, WHERE PROVIDED FOR TESTING OF THE FIRE ALARM SYSTEM, IS TO CAUSE AN AUDIBLE SIGNAL AND A VISUAL SIGNAL TO BE INITIATED AT THE FIRE ALARM TRANSDUCER PANEL AND AT THE MONITORING STATION.



1 **FIRE ALARM RISER**
SCALE: N.T.S.

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
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3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

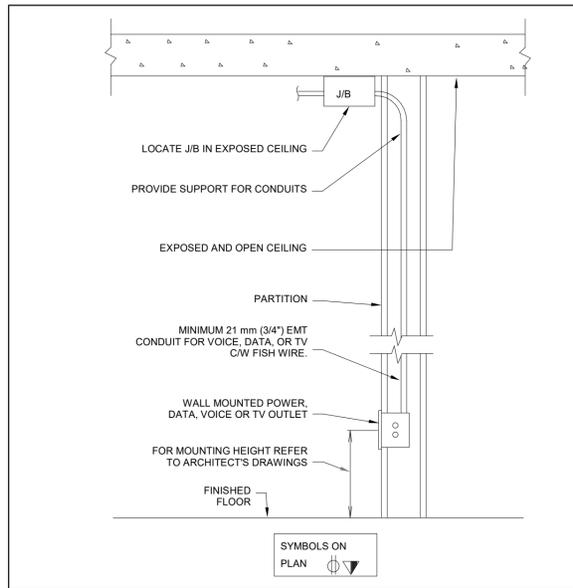
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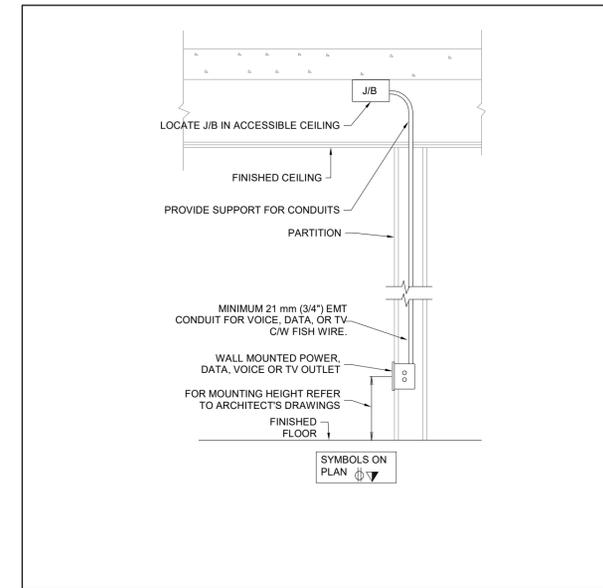
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Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005

Sheet
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ELECTRICAL DETAILS

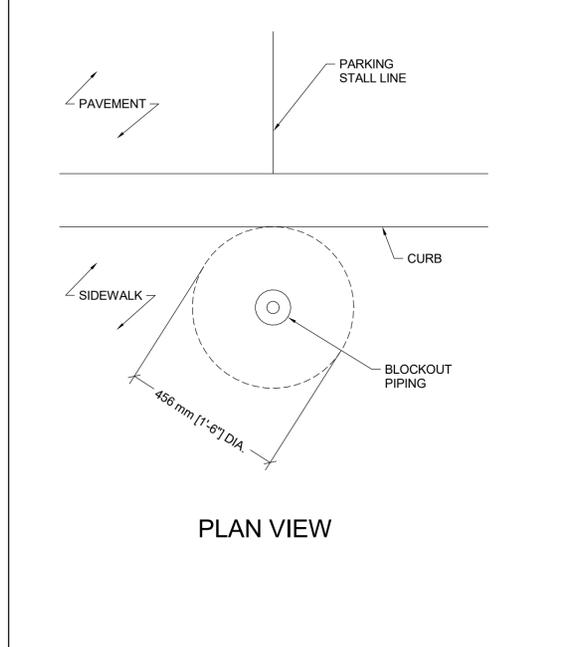
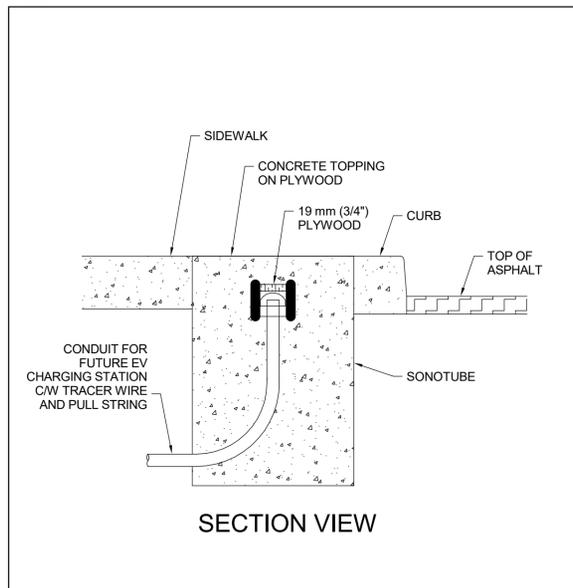
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E-800



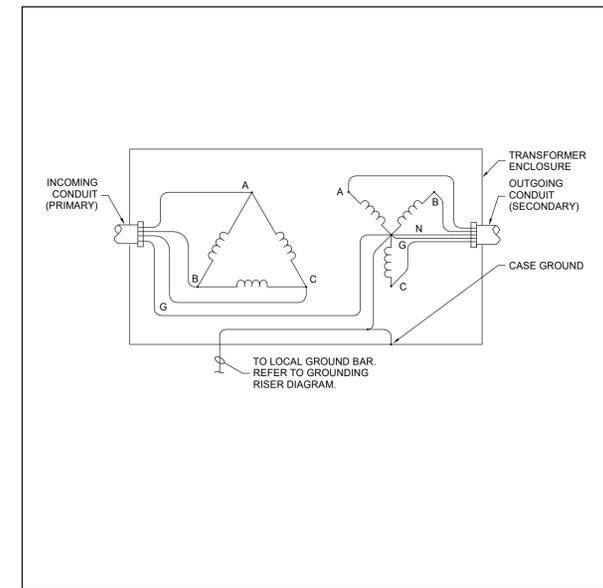
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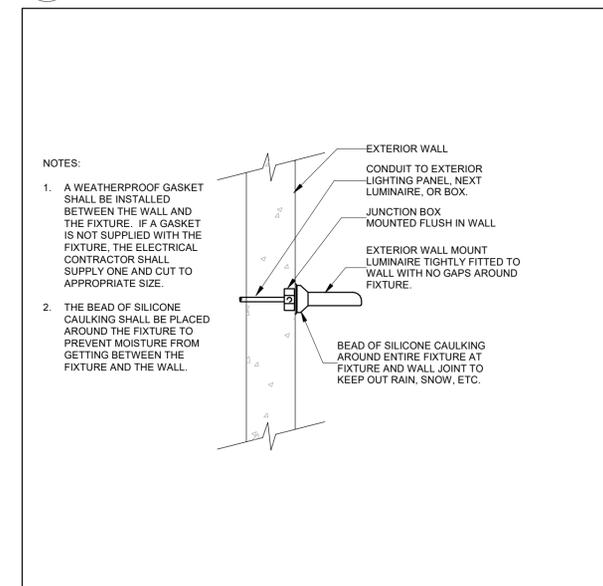
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SCALE: N.T.S.



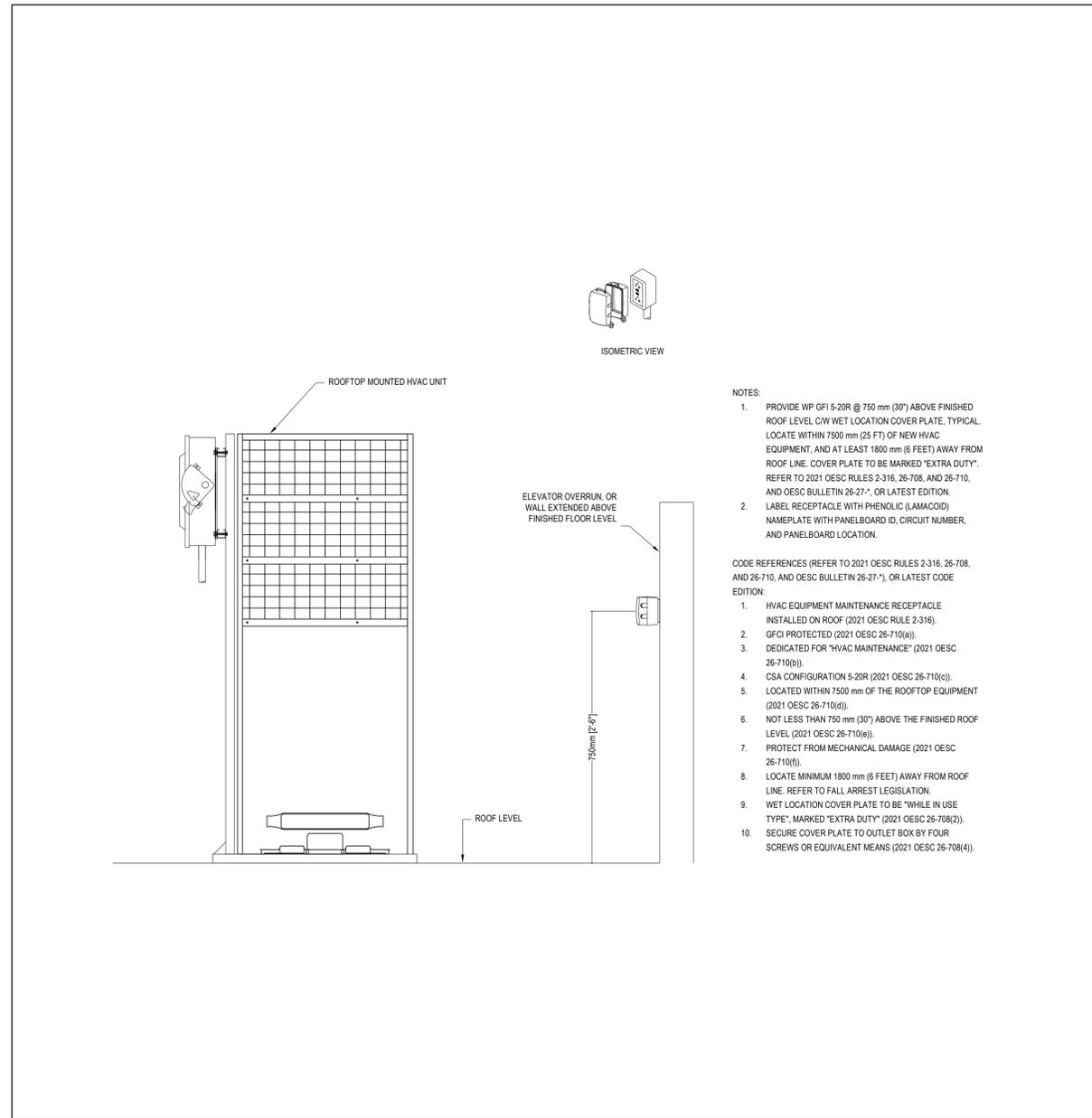
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SCALE: 1 : 10



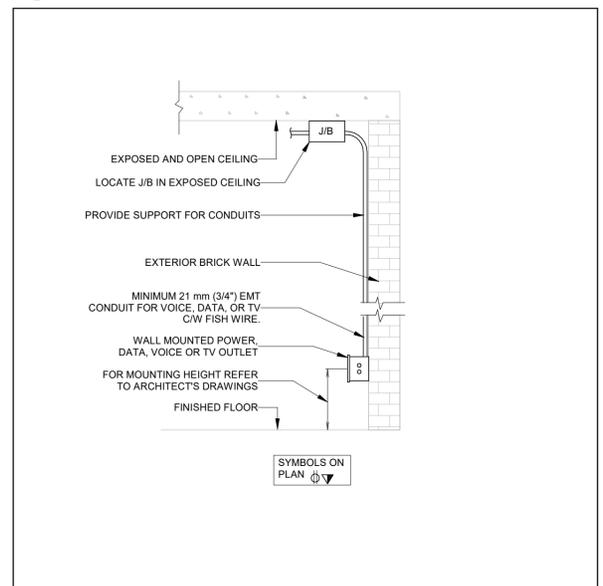
8 TRANSFORMER GROUNDING
SCALE: 1 : 50



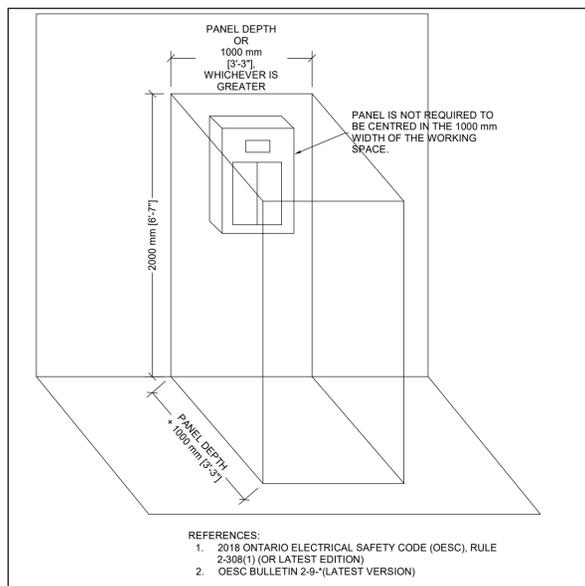
7 Sealing of Wall Mounted Exterior Luminaires
SCALE: N.T.S.



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.

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
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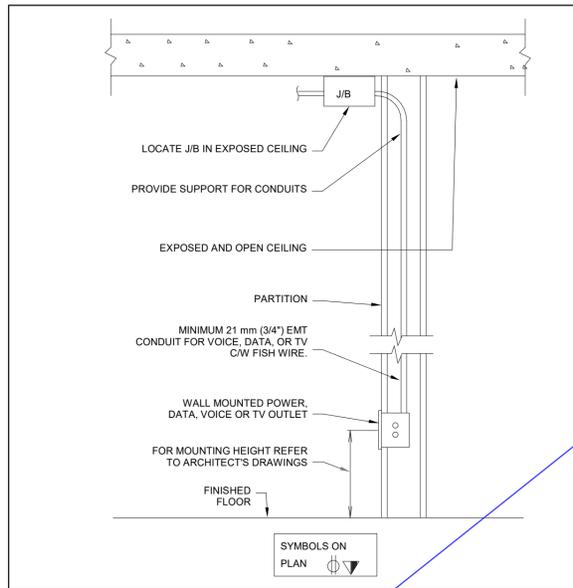
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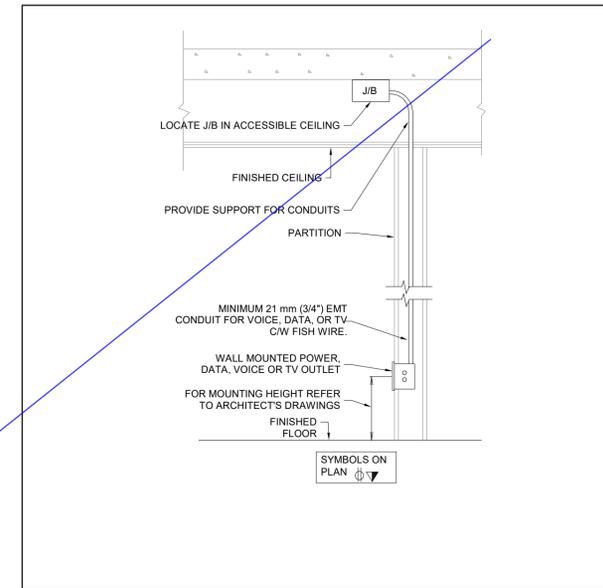
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ELECTRICAL DETAILS

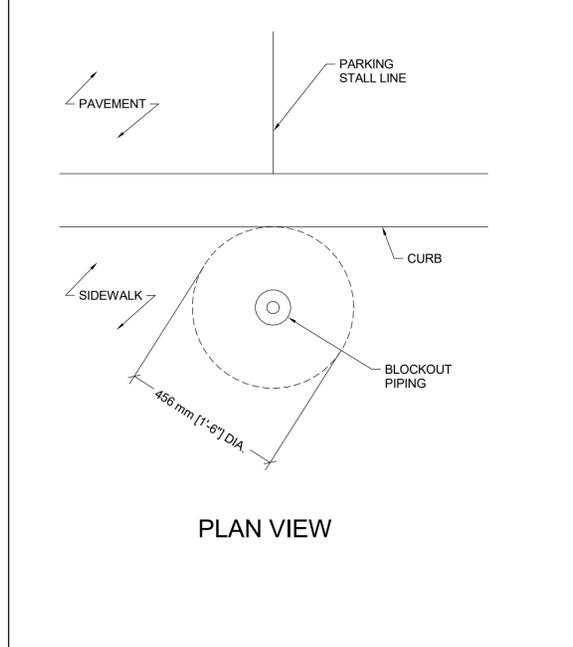
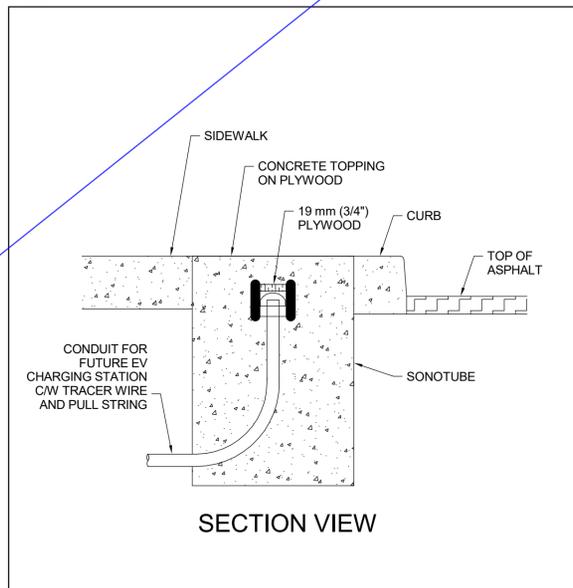
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E-800



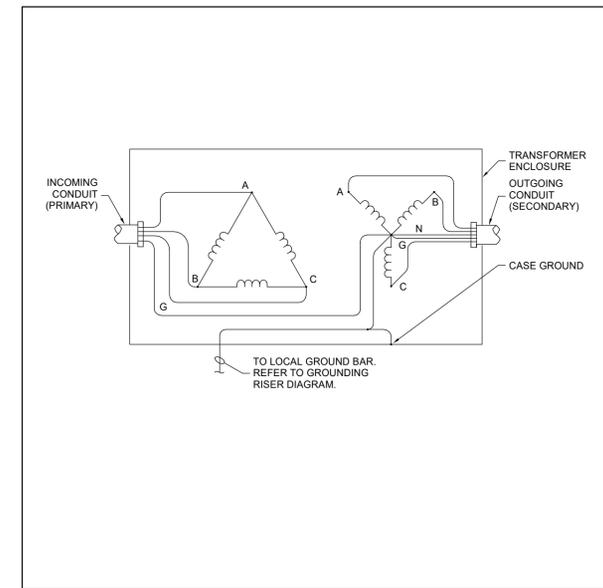
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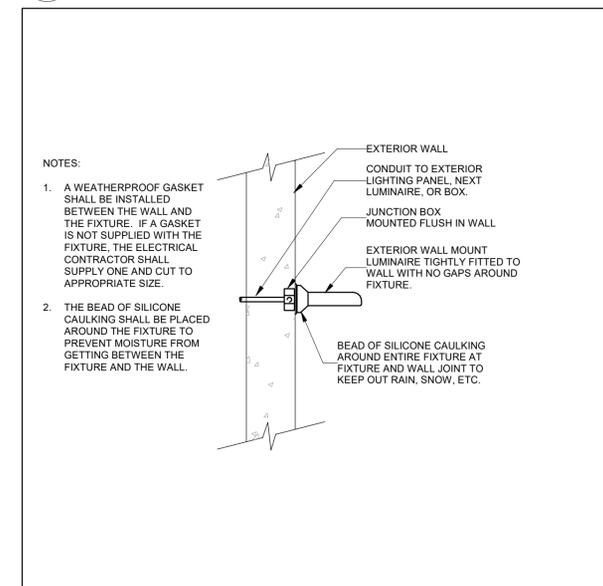
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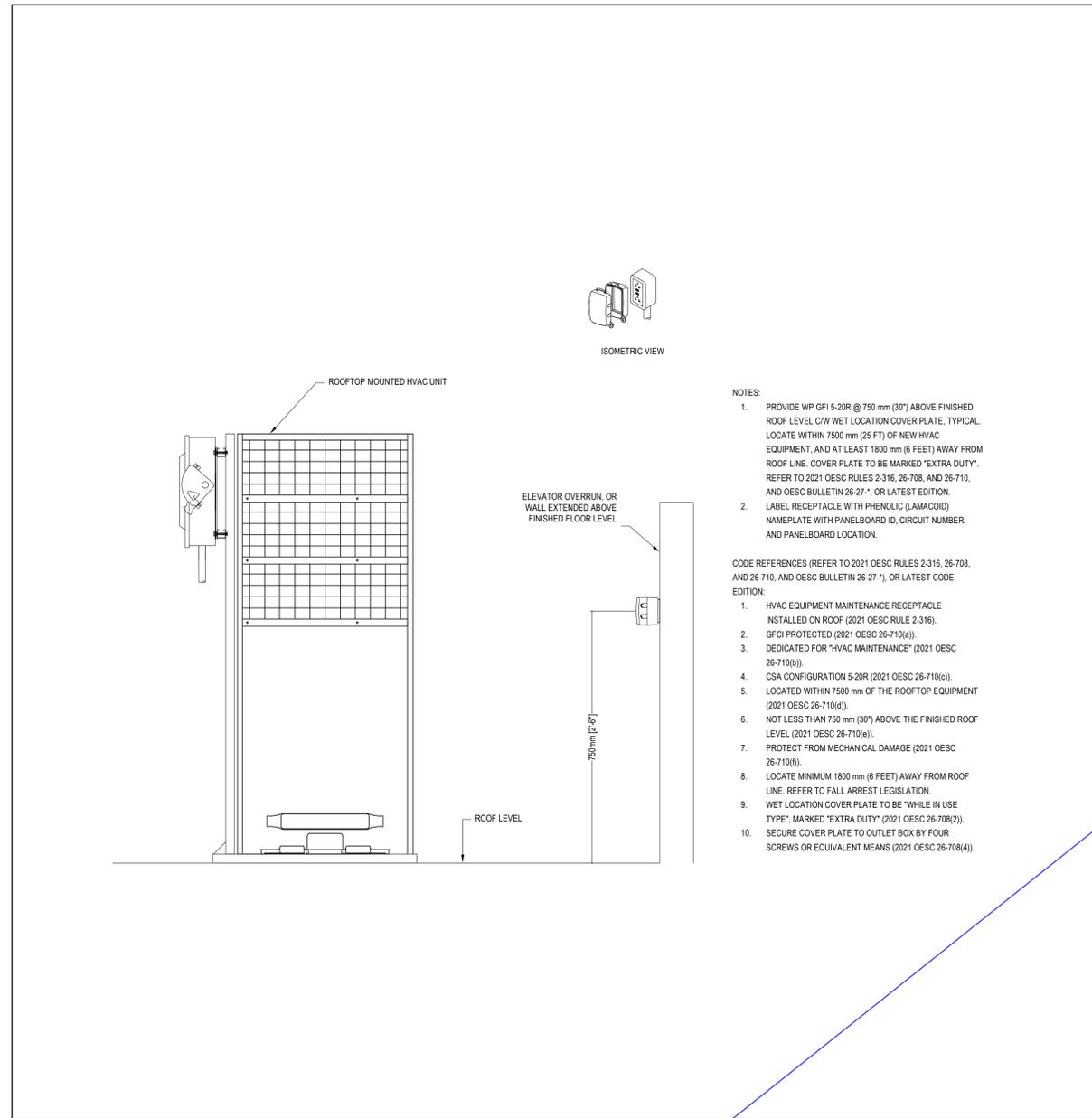
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SCALE: 1 : 10



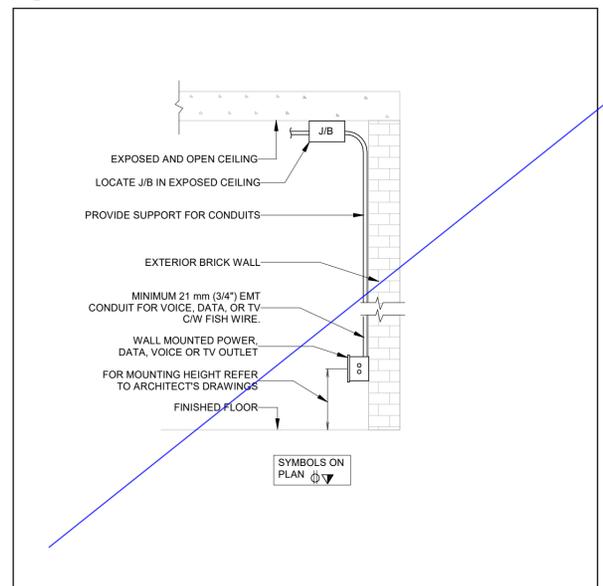
8 TRANSFORMER GROUNDING
SCALE: 1 : 50



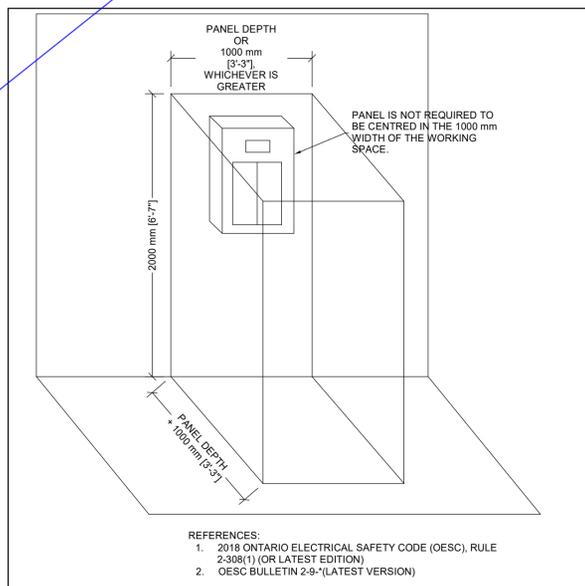
7 Sealing of Wall Mounted Exterior Luminaires
SCALE: N.T.S.



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.

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
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3	ISSUED FOR ADDENDUM 3	2024-09-23
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1	ISSUED FOR BUILDING PERMIT	2024-07-31

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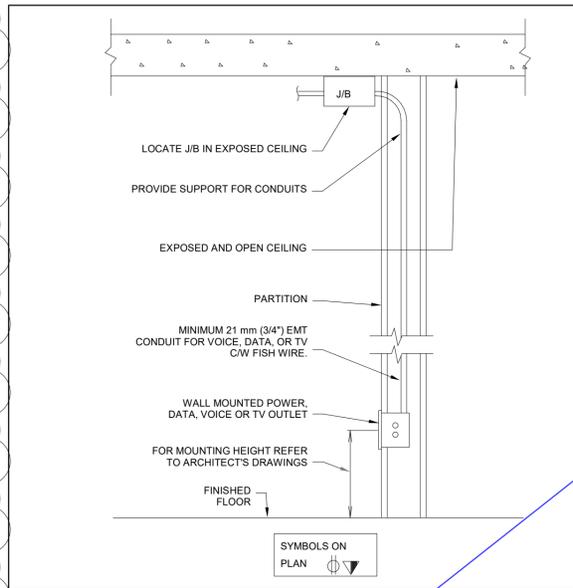
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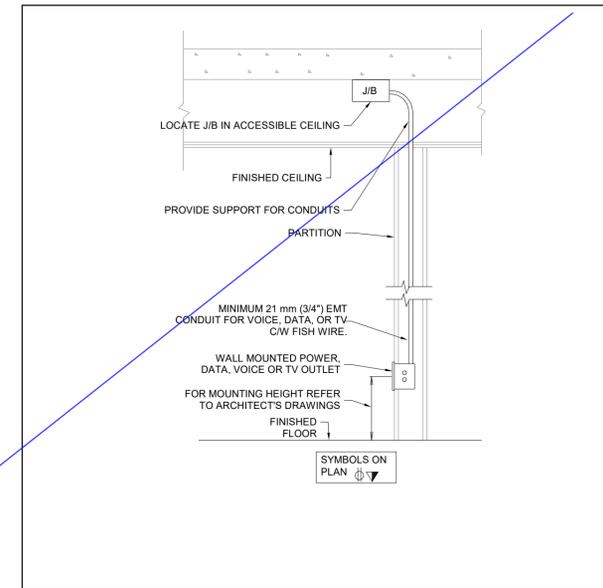
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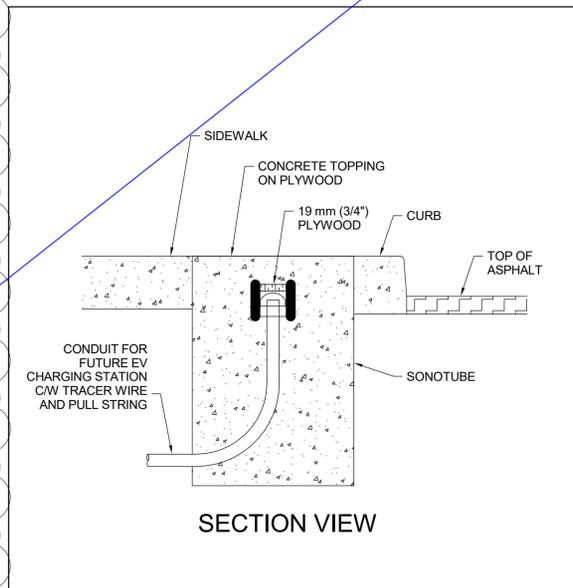
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No:
E-800



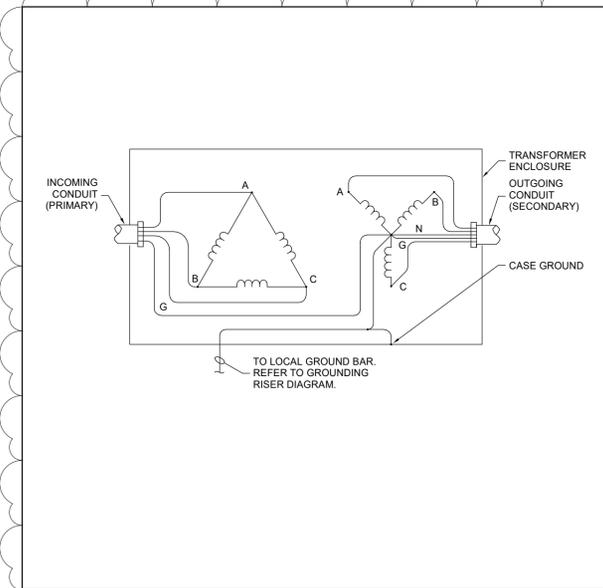
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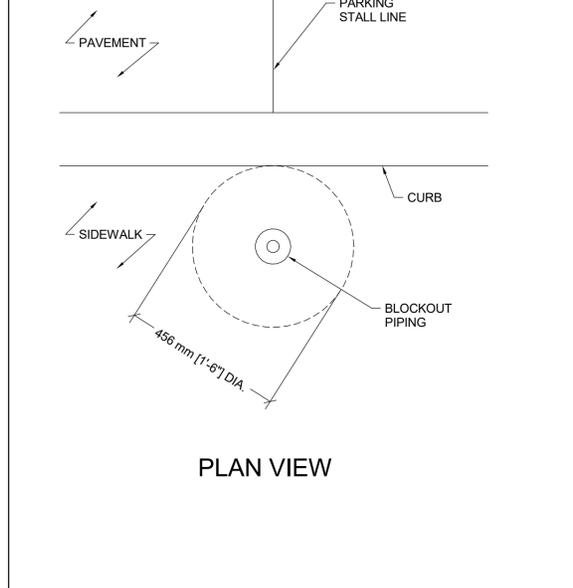
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SCALE: N.T.S.



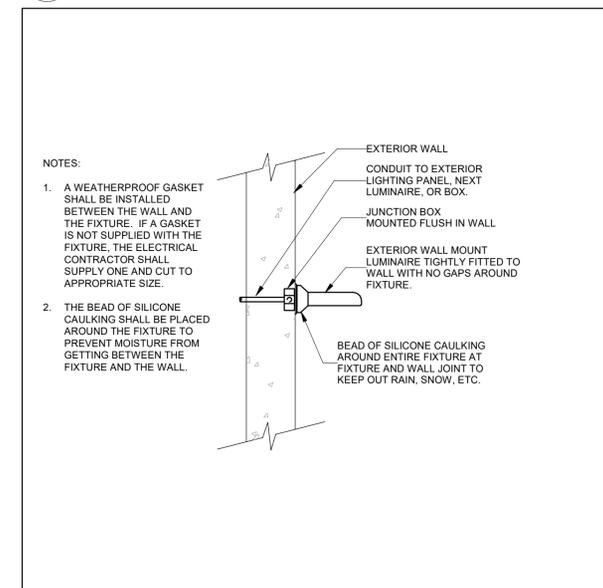
1 Future EV Charging Station Pedestal Rough-In
SCALE: 1 : 10



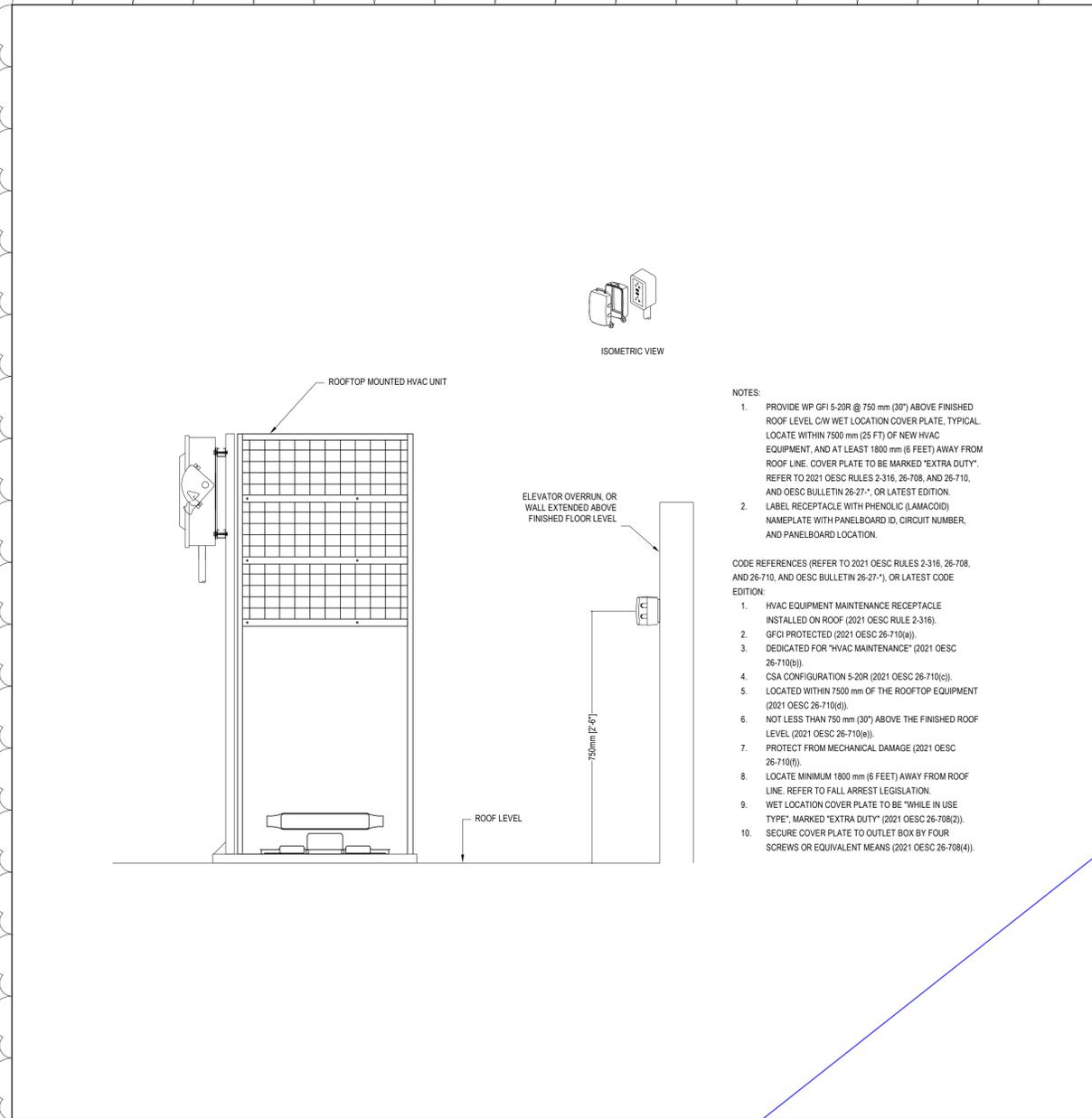
8 TRANSFORMER GROUNDING
SCALE: 1 : 50



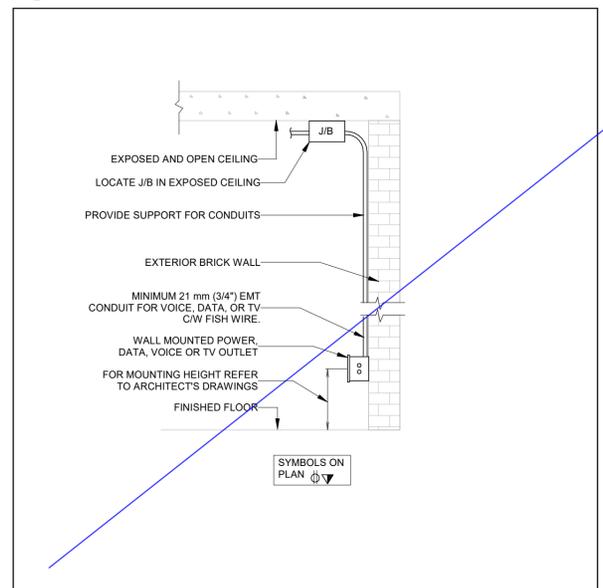
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SCALE: 1 : 10



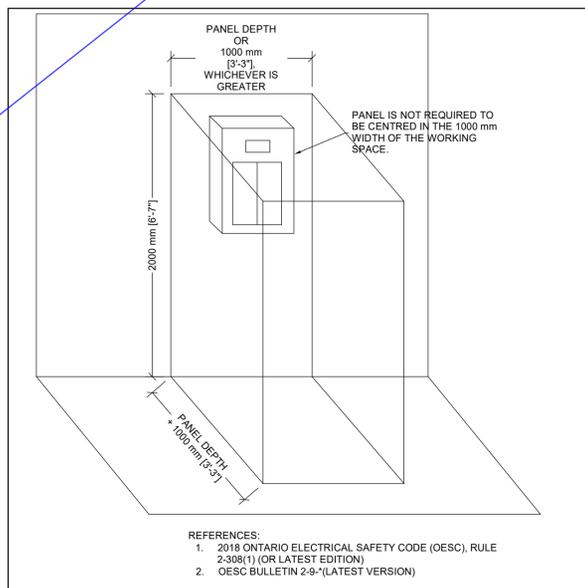
7 Sealing of Wall Mounted Exterior Luminaires
SCALE: N.T.S.



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 GFI 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)).

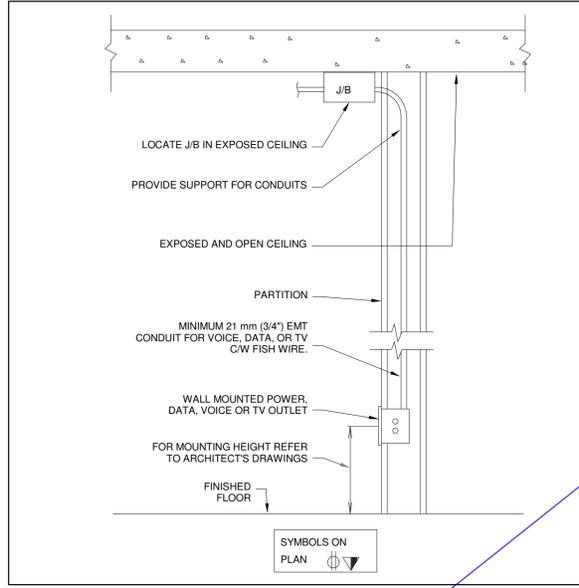


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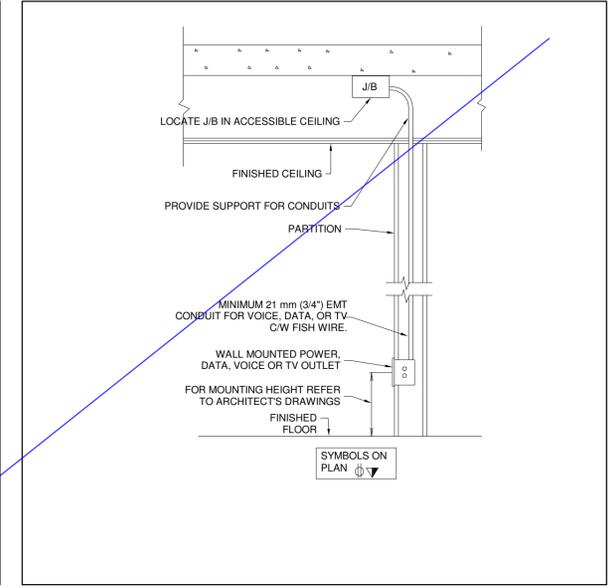
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
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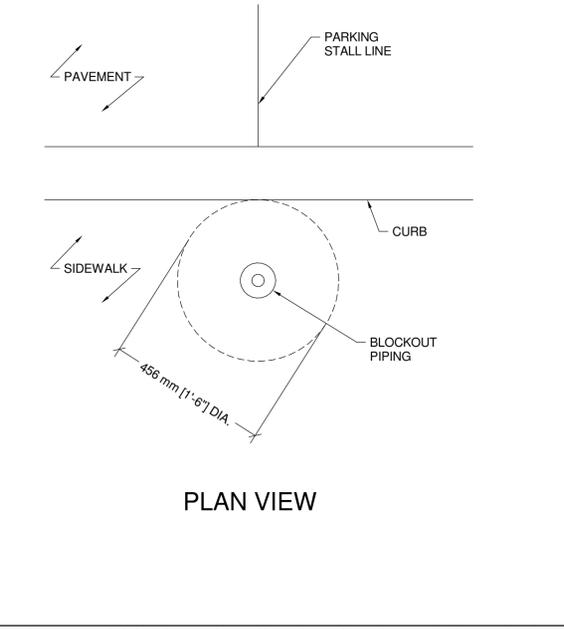
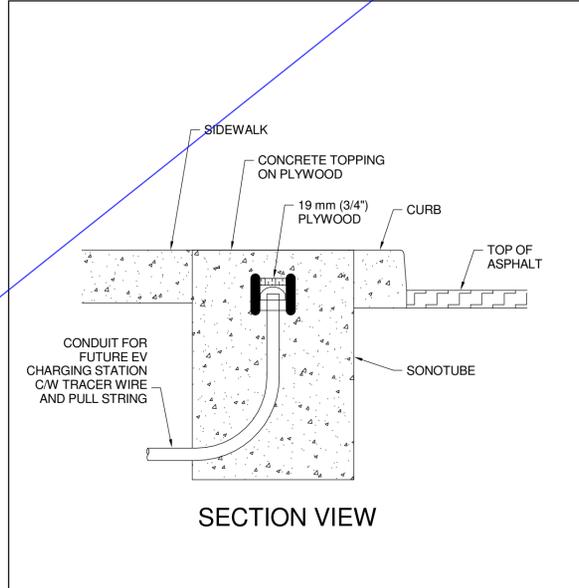
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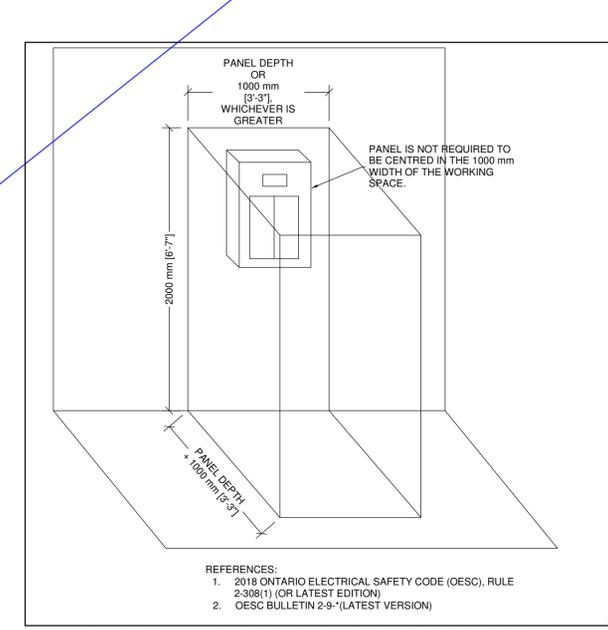
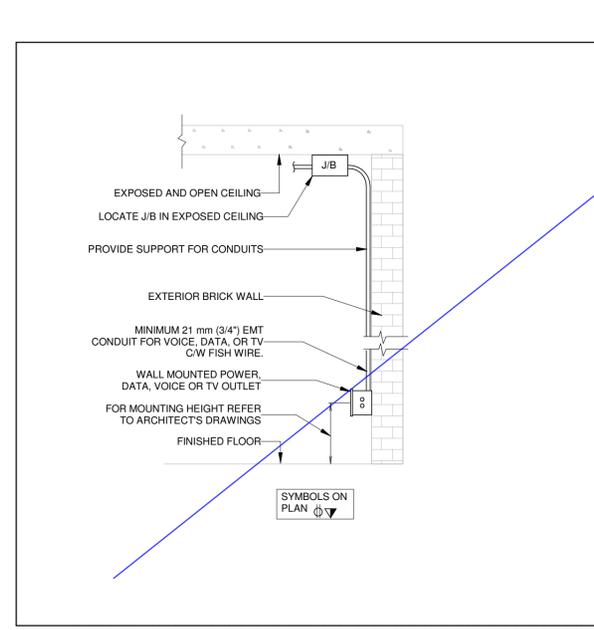
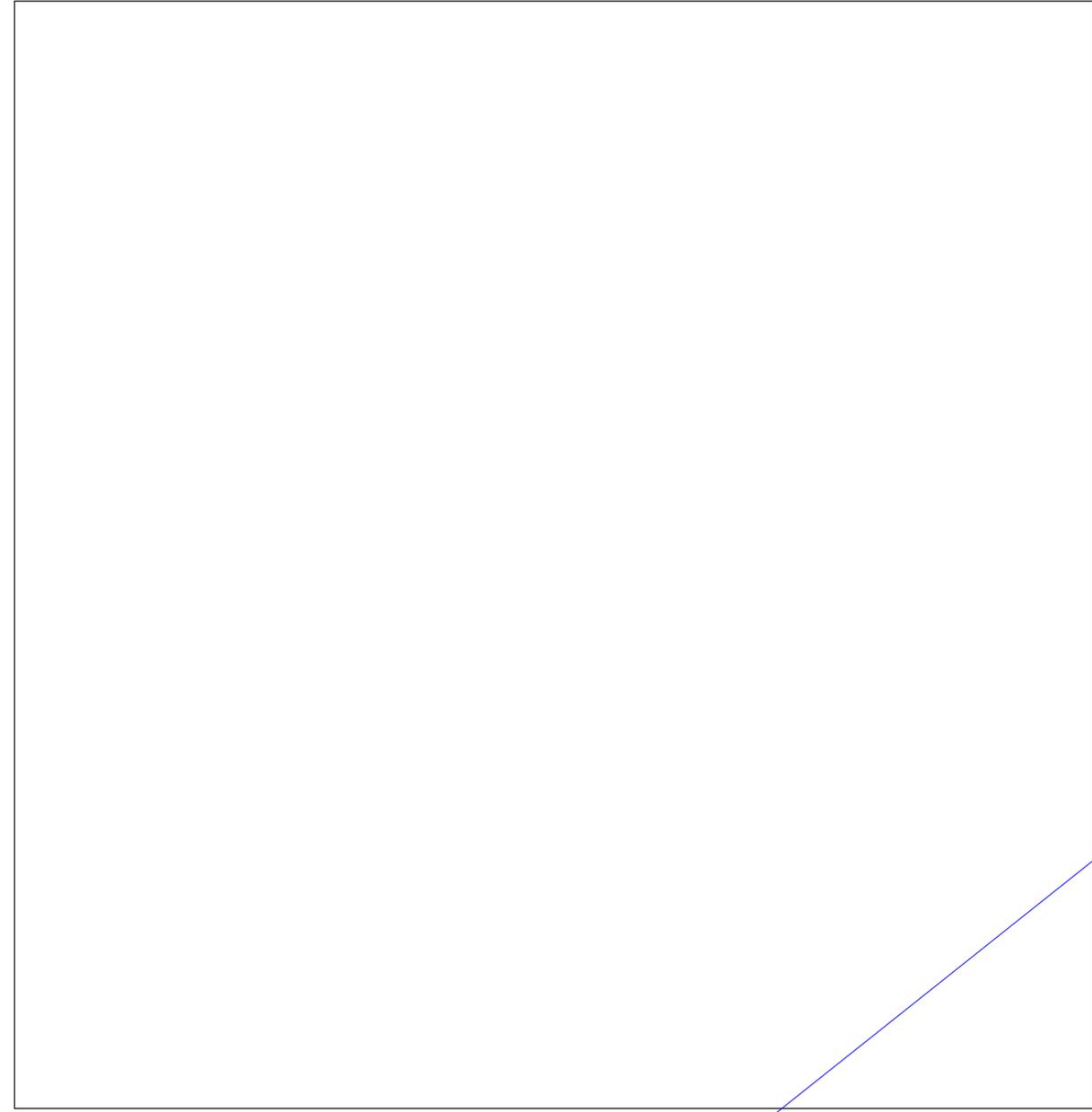
4 Wall Mounted Outlet Box Wall Recessed
SCALE:N.T.S.



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



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



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

NO.	ISSUED	DATE
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

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Do not scale drawings

Drawn by: ZK
Checked by: AO
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Project No: TT-24-005

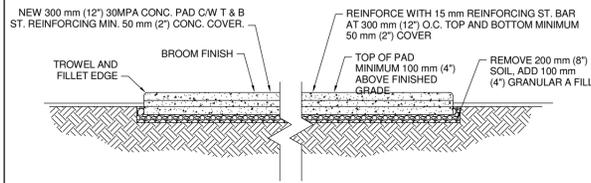
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ELECTRICAL DETAILS

Drawing
No:
E-800

YORK REGIONAL POLICE HELICOPTER HANGAR

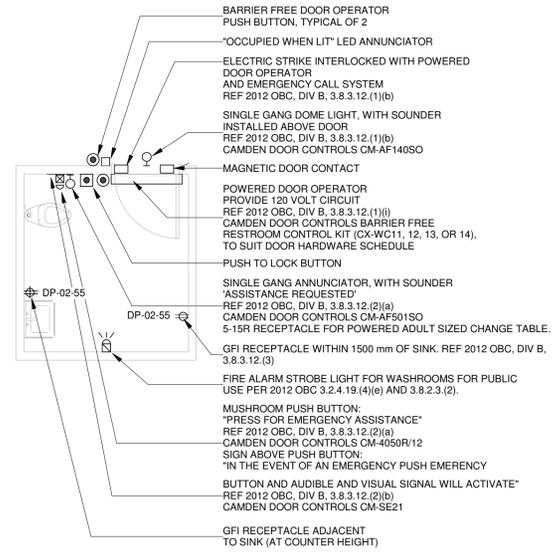
350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan



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-AF50SO 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-AF140SO 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.

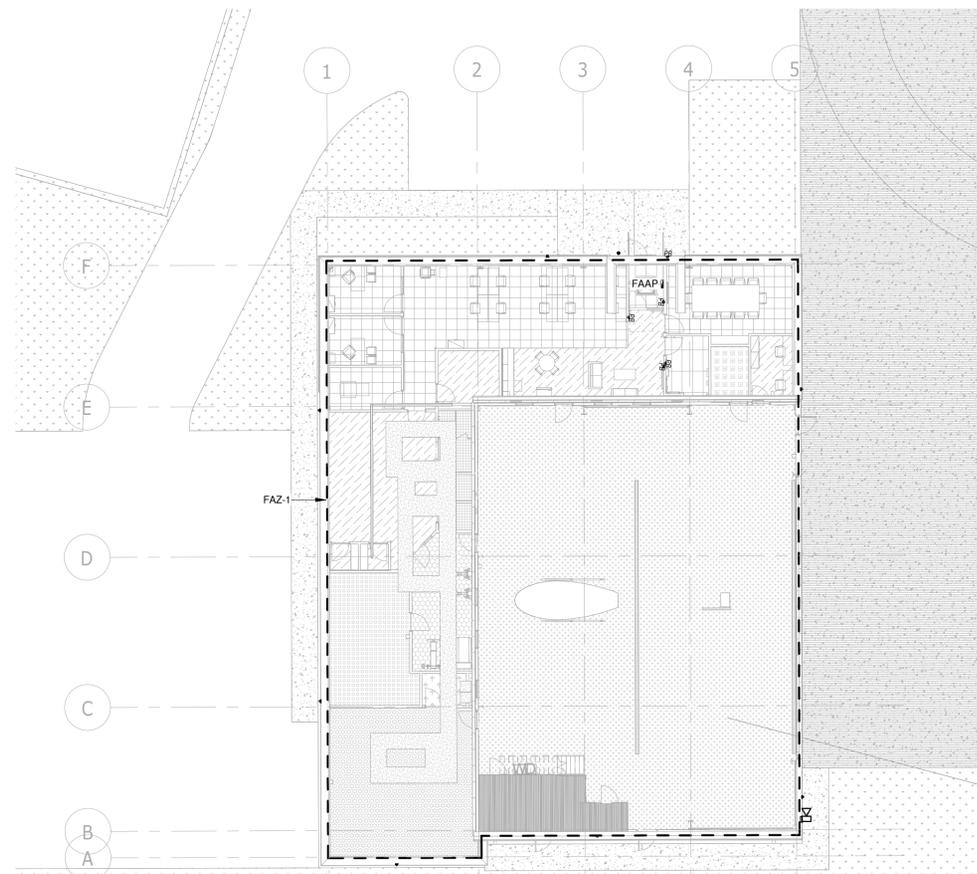
NOTES:

- 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

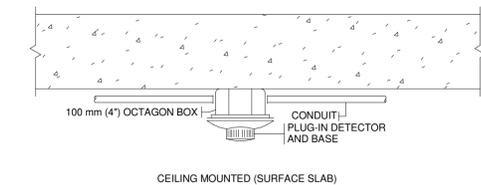
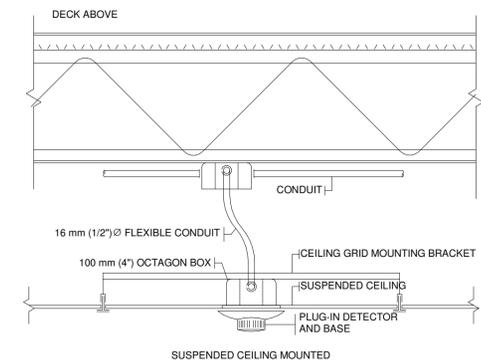
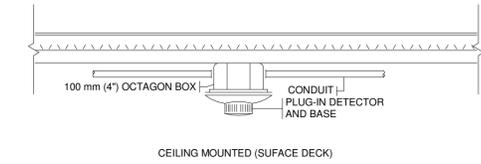
3 Universal Washroom Door Operator and Emergency Call System

SCALE:N.T.S.



2 FIRE ALARM ZONES

SCALE:N.T.S.



1 Typical Smoke Detector Installations

SCALE:N.T.S.

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 3	2024-09-23
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
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: As indicated

Sheet
Title:
ELECTRICAL DETAILS

Drawing
No:
E-801

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

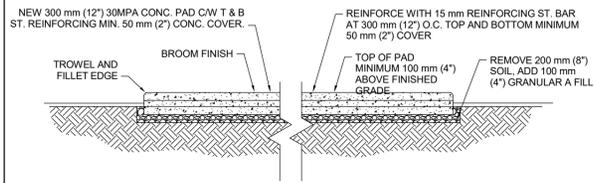
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Drawn by: ZK
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Original Issue Date: 2024-07-31
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Scale: As indicated

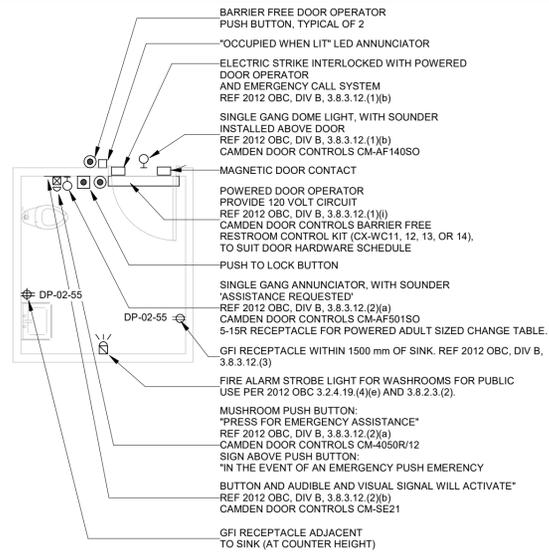
Sheet
Title:
ELECTRICAL DETAILS

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 CXWEC10/CXWEC-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.
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- 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.

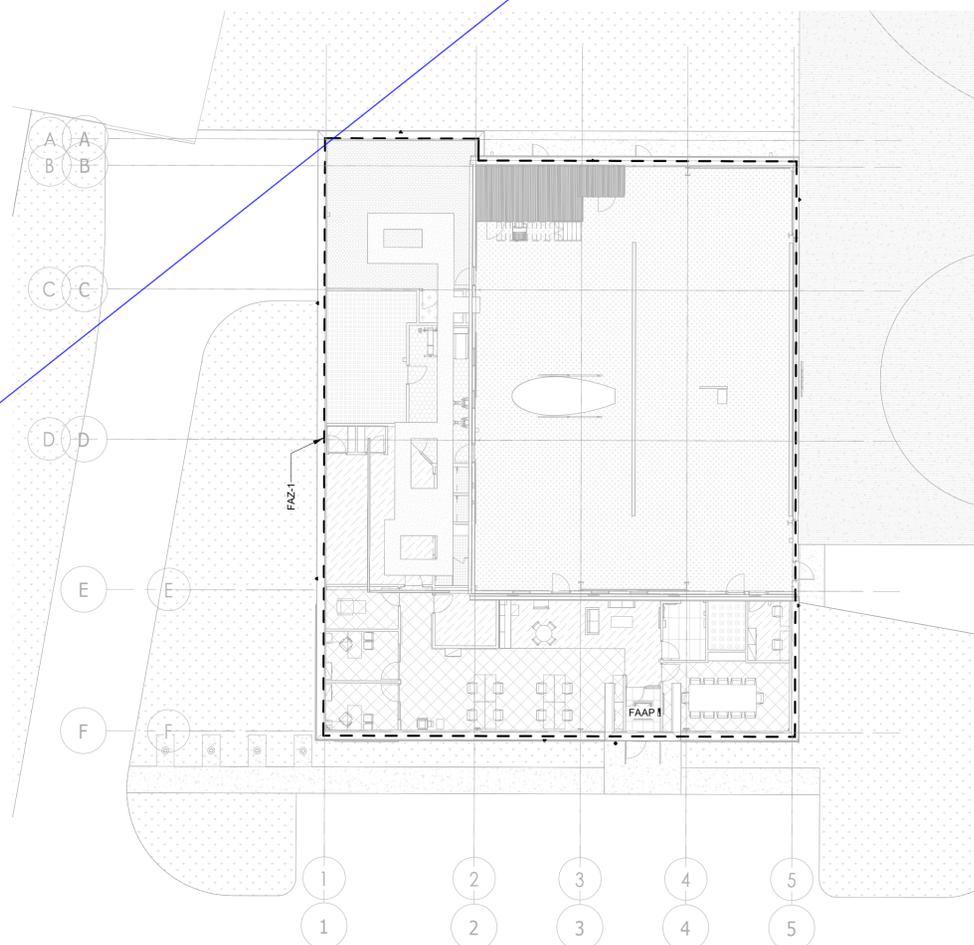
NOTES:

- 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

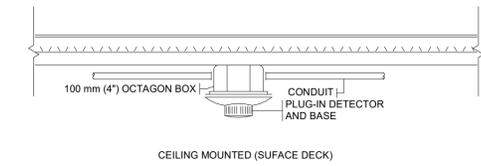
3 Universal Washroom Door Operator and Emergency Call System

SCALE: N.T.S.

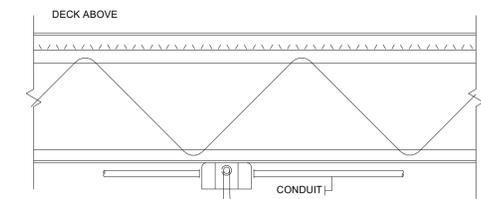


2 FIRE ALARM ZONES

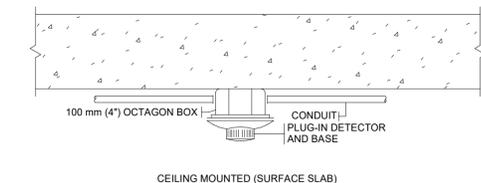
SCALE: N.T.S.



CEILING MOUNTED (SURFACE DECK)



SUSPENDED CEILING MOUNTED



CEILING MOUNTED (SURFACE SLAB)

1 Typical Smoke Detector Installations

SCALE: N.T.S.

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

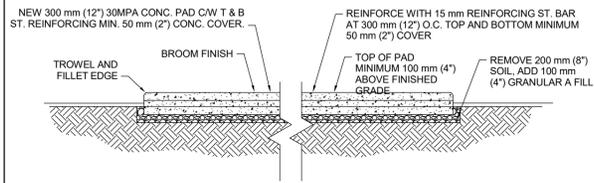
All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

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

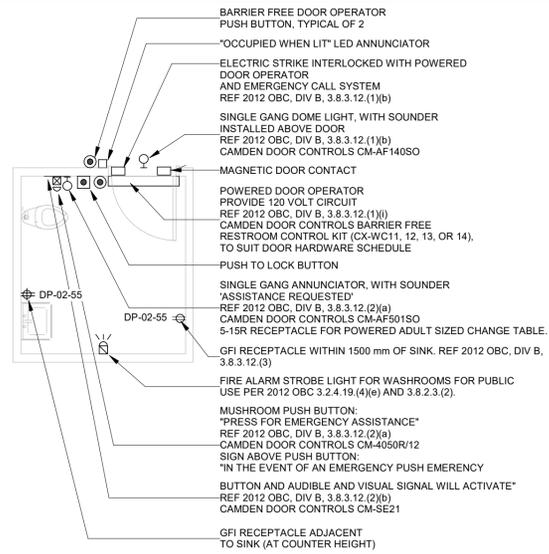
Sheet
Title:
ELECTRICAL DETAILS

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 CXWEC10/CXWEC-11 UNIVERSAL RESTROOM CONTROL KIT.

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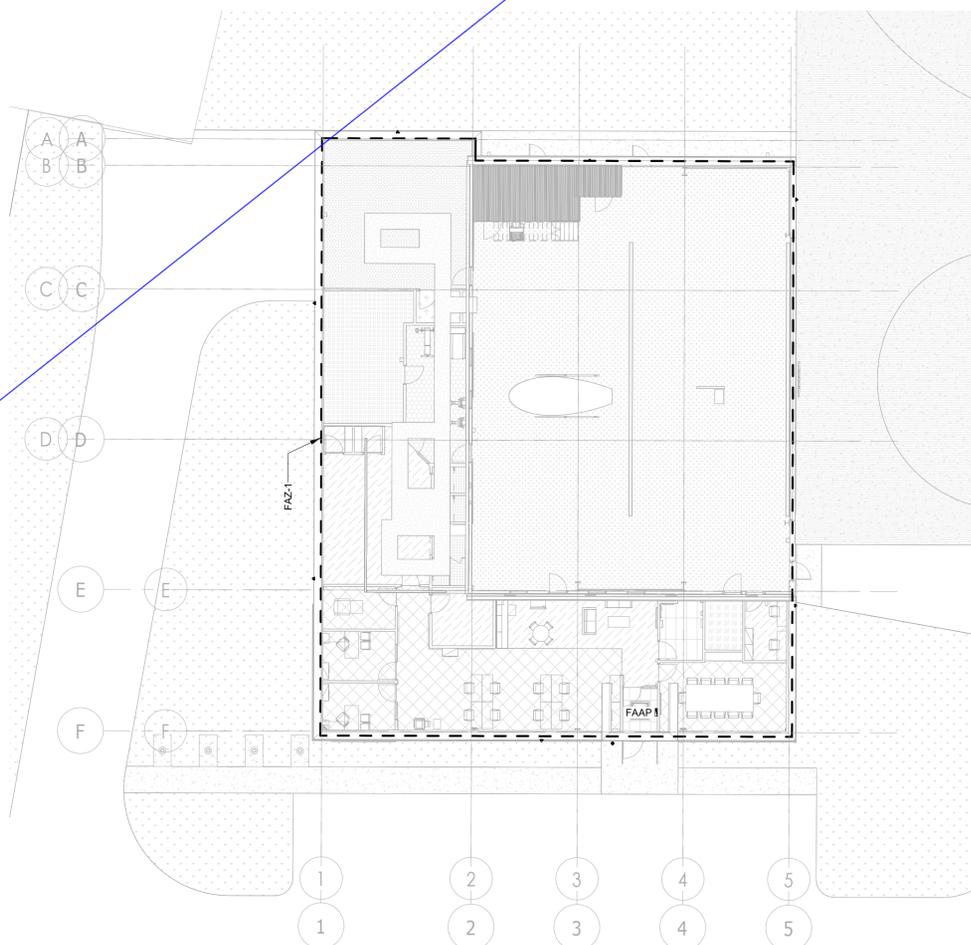
NOTES:

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

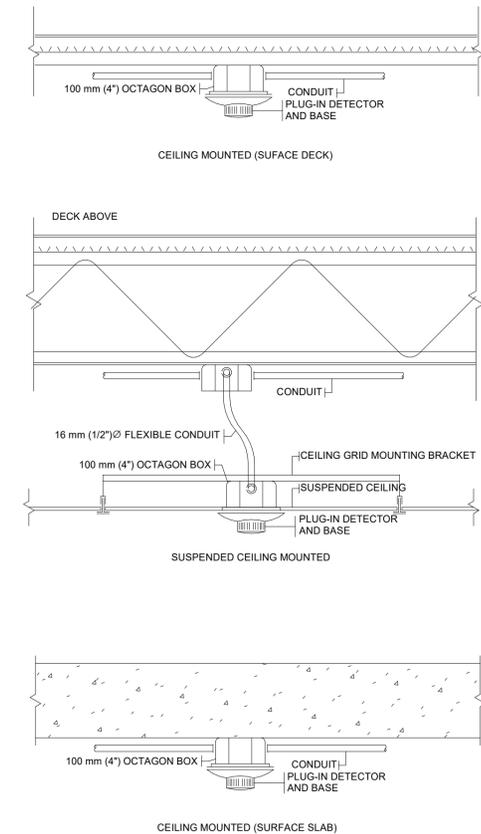
3 Universal Washroom Door Operator and Emergency Call System

SCALE: N.T.S.



2 FIRE ALARM ZONES

SCALE: N.T.S.



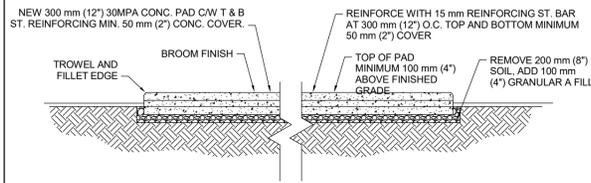
1 Typical Smoke Detector Installations

SCALE: N.T.S.

YORK REGIONAL POLICE HELICOPTER HANGAR

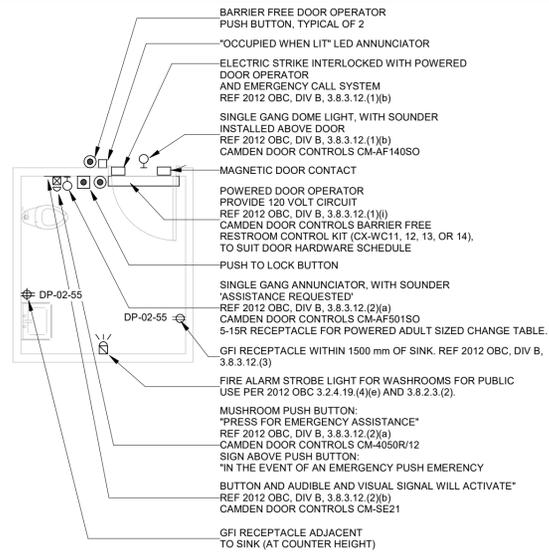
350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan



4 Cast-In-Place Concrete Generator Pad

SCALE: 1 : 50



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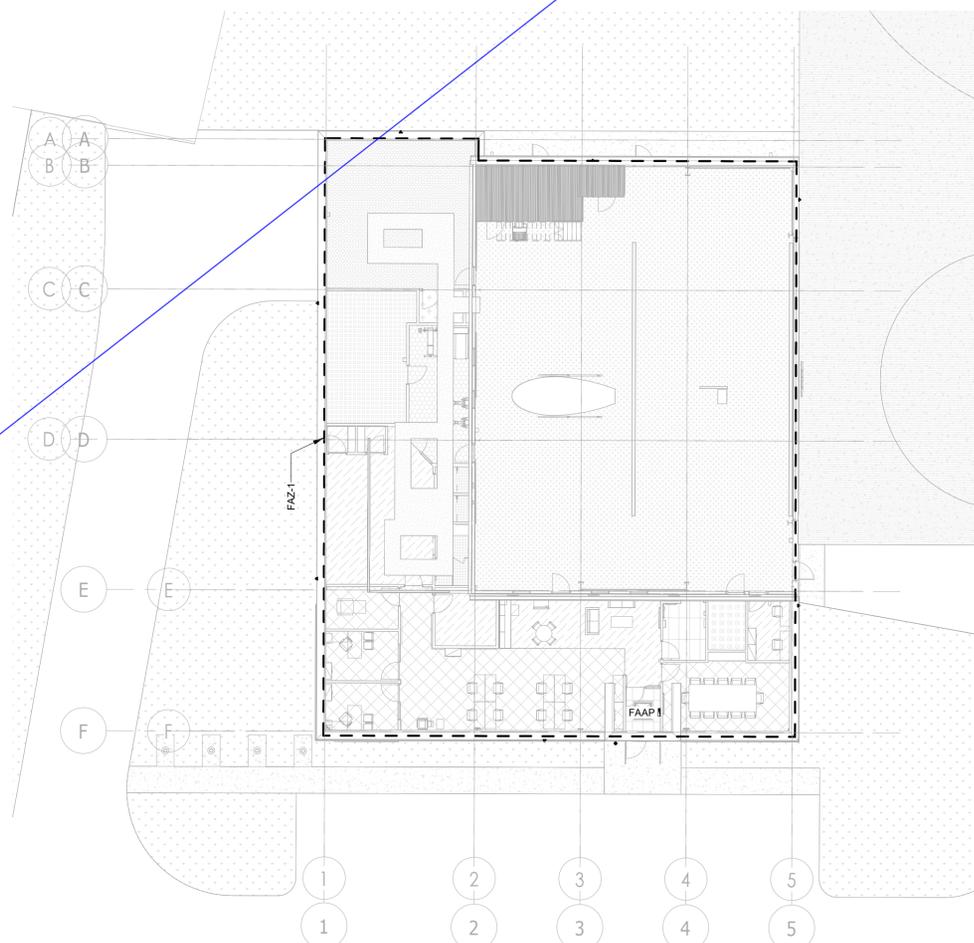
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28 26 23 - UNIVERSAL WASHROOM DOOR OPERATOR AND EMERGENCY CALL SYSTEM

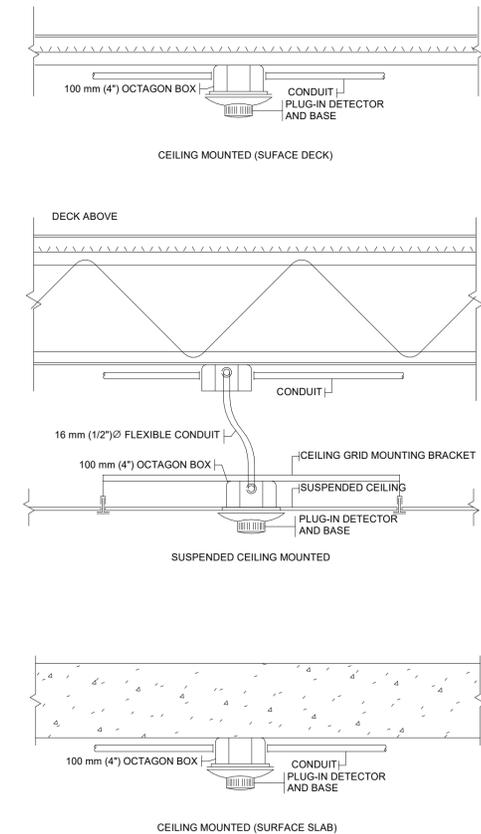
3 Universal Washroom Door Operator and Emergency Call System

SCALE: N.T.S.



2 FIRE ALARM ZONES

SCALE: N.T.S.



1 Typical Smoke Detector Installations

SCALE: N.T.S.

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR TENDER	2024-09-09
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
Scale: As indicated

Sheet
Title:
ELECTRICAL DETAILS

Drawing
No:
E-801



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

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

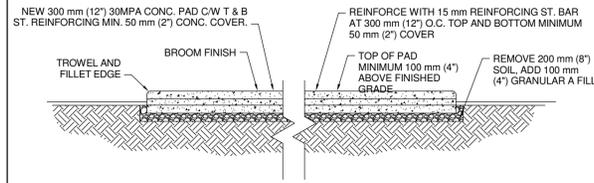
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Original Issue Date: 2024-07-31
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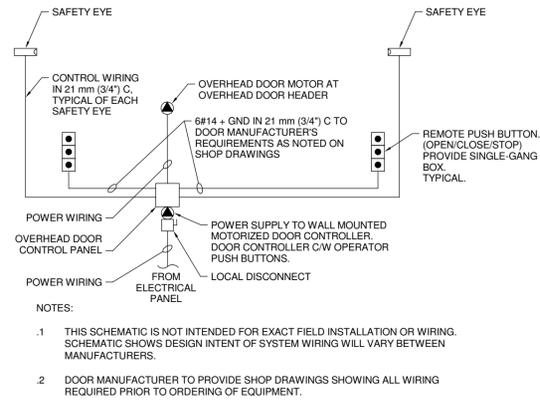
Sheet
Title:
ELECTRICAL DETAILS

Drawing
No:
E-801



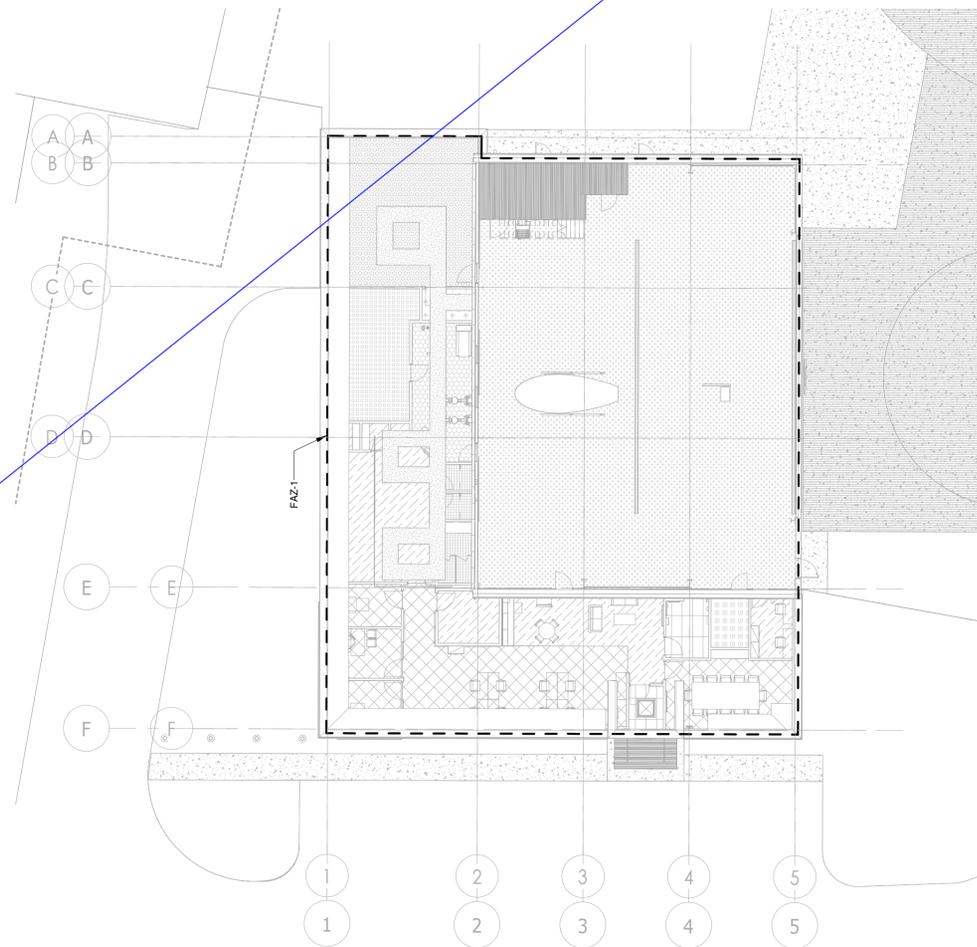
4 Cast-In-Place Concrete Generator Pad

SCALE: 1 : 50



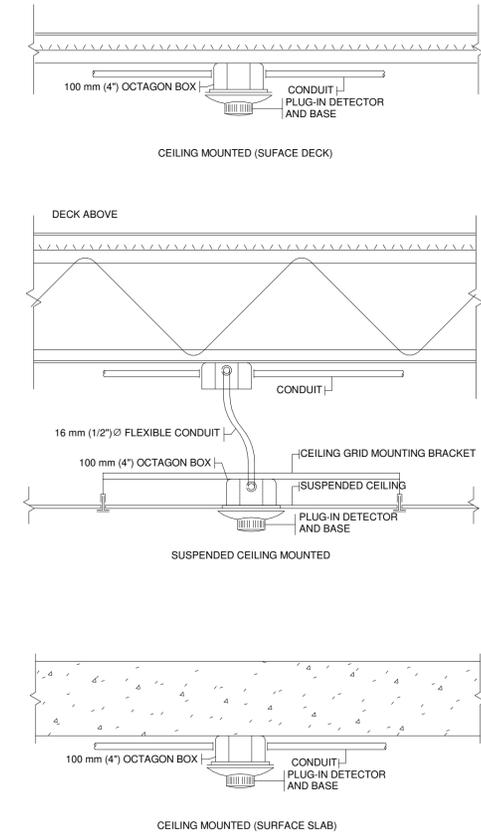
5 Wiring Diagram for Overhead Doors

SCALE: 1 : 50



2 FIRE ALARM ZONES

SCALE:N.T.S.



1 Typical Smoke Detector Installations

SCALE:N.T.S.



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
TEL: 905-507-0800
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YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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

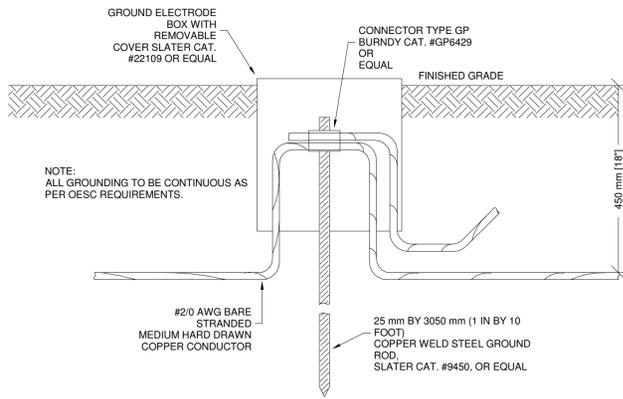
WIRE SIZE	BREAKER SIZE (AMPERES)	MAX. LOAD AT 80% (AMPERES)									
		15	20	30	40	50	60	70	80	100	
NO.12	16.8	12.2	.....	.....	.....	.....	.....	.....	.....
NO.10	25.9	19.0	12.9	.....	.....	.....	.....	.....	.....
NO.8	39.6	30.4	20.5	15.2	.....	.....	.....	.....	.....
NO.6	62.4	47.2	32.0	23.6	19.0	16.0	.....	.....	.....
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	
NO.3/0	95.2	79.2	68.5	59.4	
NO.4/0	92.9	79.2	70.1	
250 MCM	102.8	86.8	
300 MCM	100.5	

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	
NO.2/0	121.9	100.6	86.9	74.7	
NO.3/0	118.1	102.1	88.4	
NO.4/0	120.4	102.9	
250 MCM	114.3	
300 MCM	103.6	

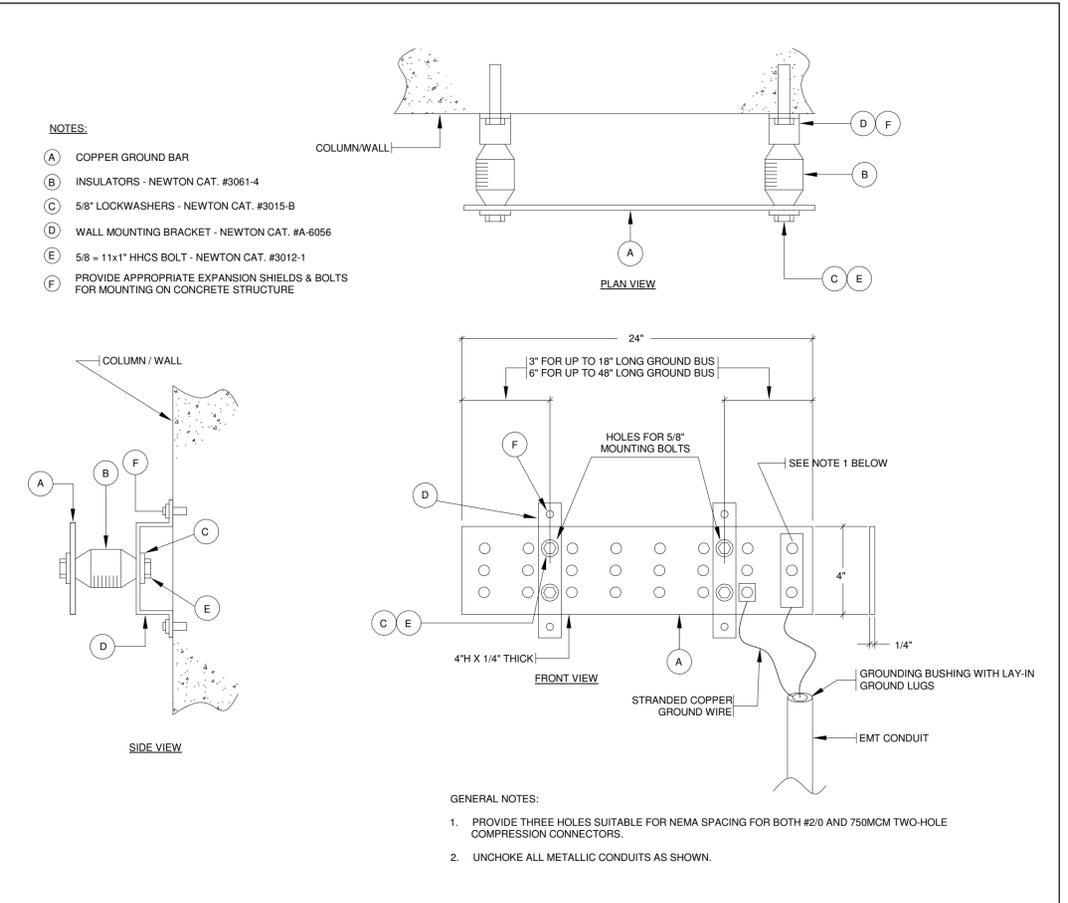
NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.



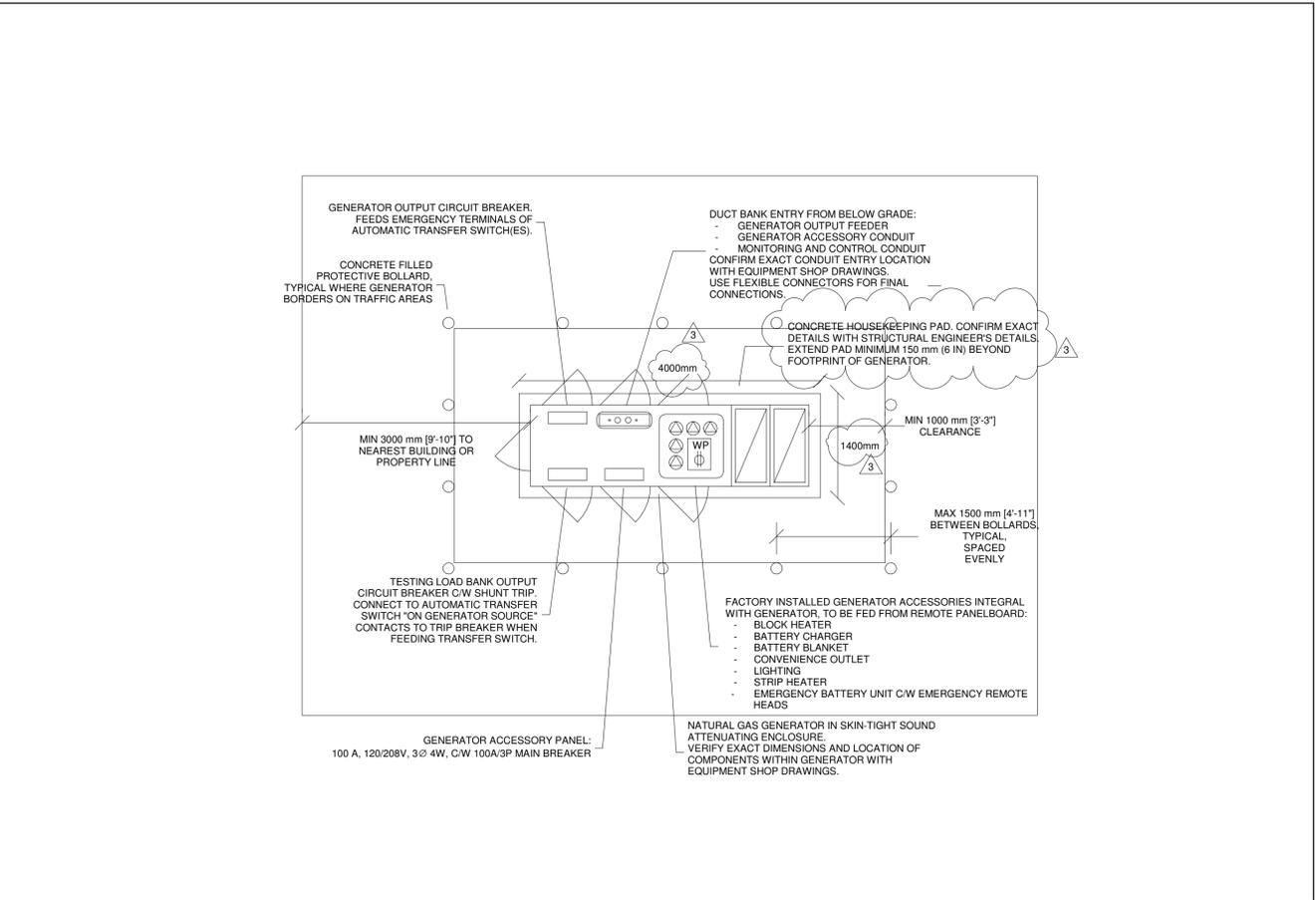
3 Ground Rod
SCALE:N.T.S.

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.



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



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

NO.	ISSUED	DATE
3	ISSUED FOR ADDENDUM 10	2024-10-15
2	ISSUED FOR ADDENDUM 6	2024-09-30
1	ISSUED FOR TENDER	2024-09-09

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: 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

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

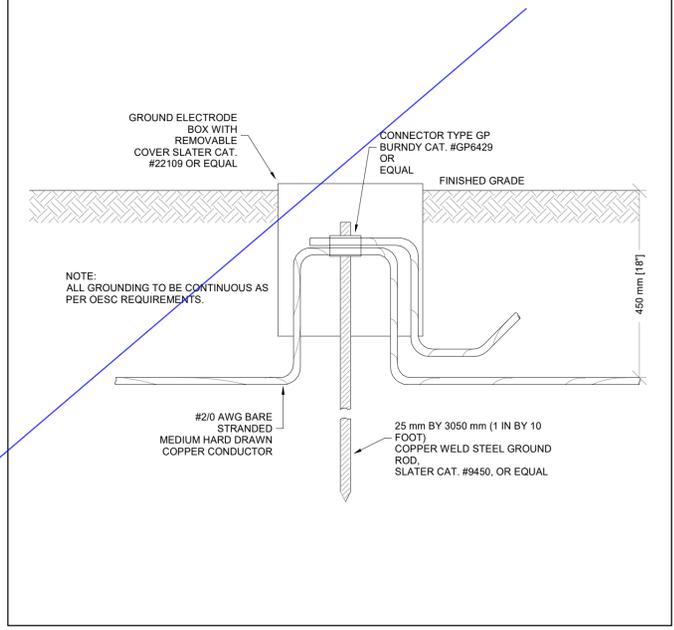
WIRE SIZE	BREAKER SIZE (AMPERES)	MAX. LOAD AT 80% (AMPERES)									
		15	20	30	40	50	60	70	80	100	
NO.12	----	16.8	12.2	-----	-----	-----	-----	-----	-----	-----	-----
NO.10	----	25.9	19.0	12.9	-----	-----	-----	-----	-----	-----	-----
NO.8	----	39.6	30.4	20.5	15.2	-----	-----	-----	-----	-----	-----
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

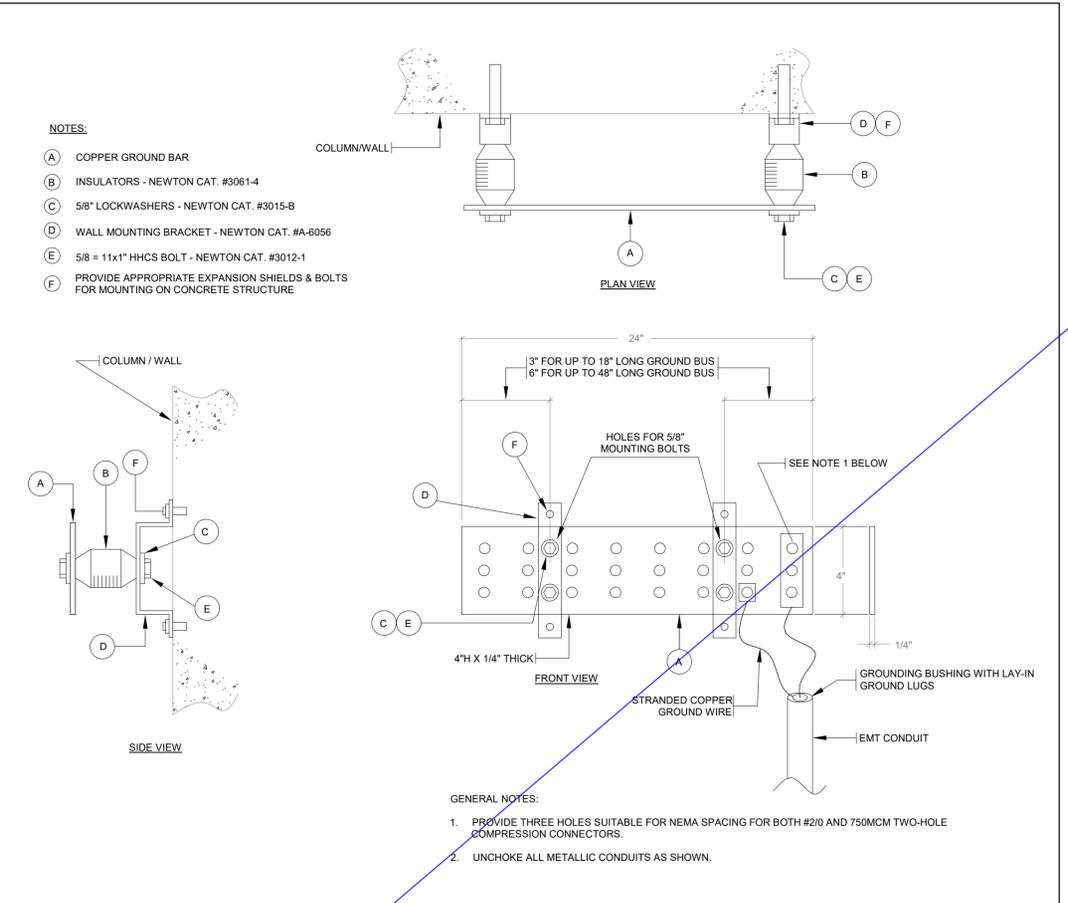
NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.



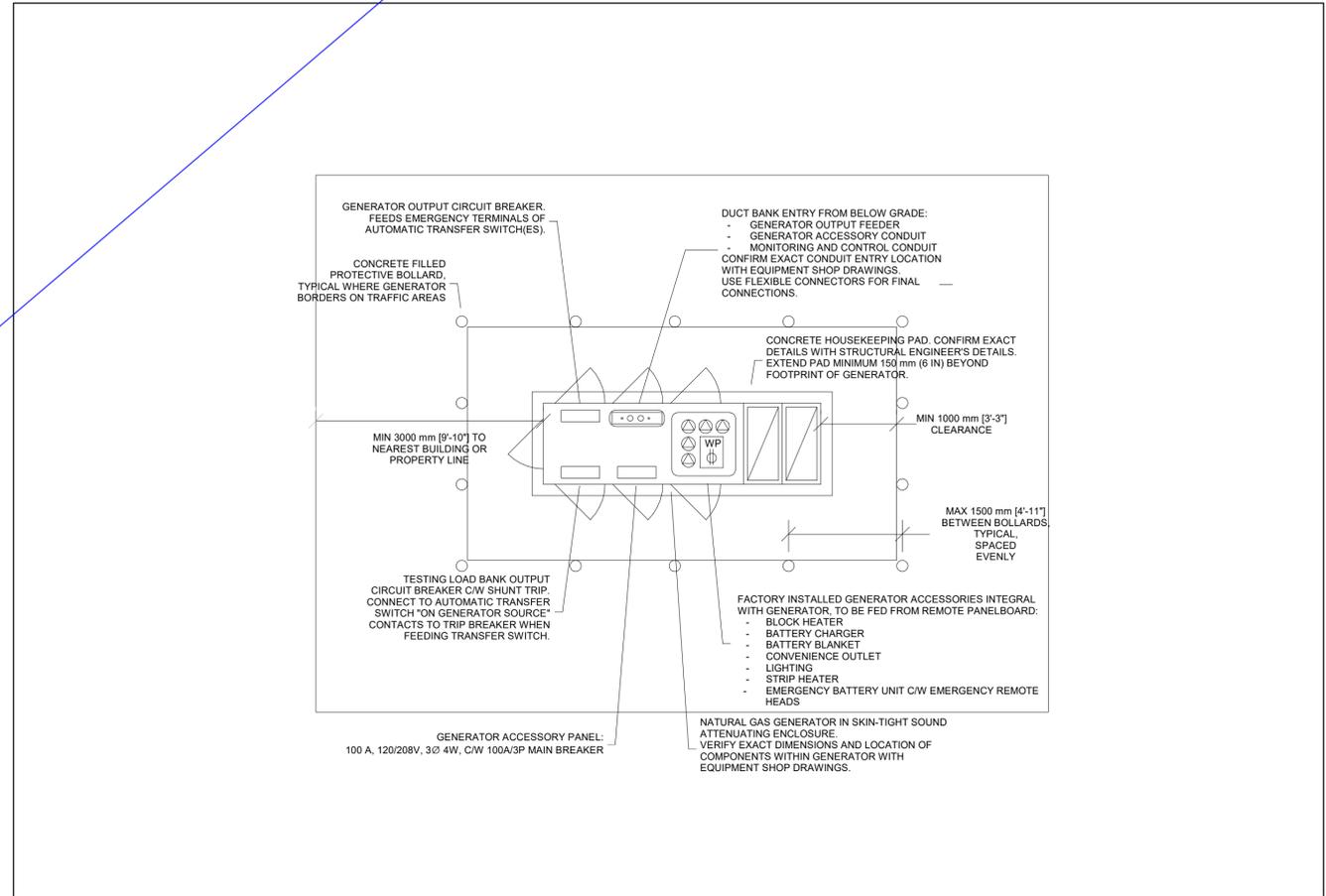
1 Max Branch Wiring Distance for 120 V System at 2% Voltage Drop
SCALE:N.T.S.

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

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

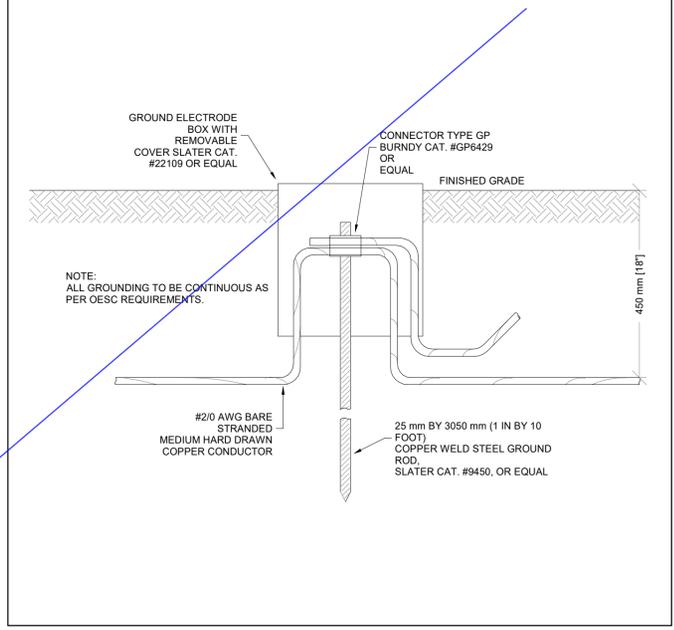
WIRE SIZE	BREAKER SIZE (AMPERES)	MAX. LOAD AT 80% (AMPERES)									
		15	20	30	40	50	60	70	80	100	
NO.12	-----	16.8	12.2	-----	-----	-----	-----	-----	-----	-----	
NO.10	-----	25.9	19.0	12.9	-----	-----	-----	-----	-----	-----	
NO.8	-----	39.6	30.4	20.5	15.2	-----	-----	-----	-----	-----	
NO.6	-----	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	
NO.2/0	-----	-----	-----	-----	-----	-----	121.9	100.6	86.9	74.7	
NO.3/0	-----	-----	-----	-----	-----	-----	-----	118.1	102.1	88.4	
NO.4/0	-----	-----	-----	-----	-----	-----	-----	-----	120.4	102.9	
250 MCM	-----	-----	-----	-----	-----	-----	-----	-----	-----	114.3	
300 MCM	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	

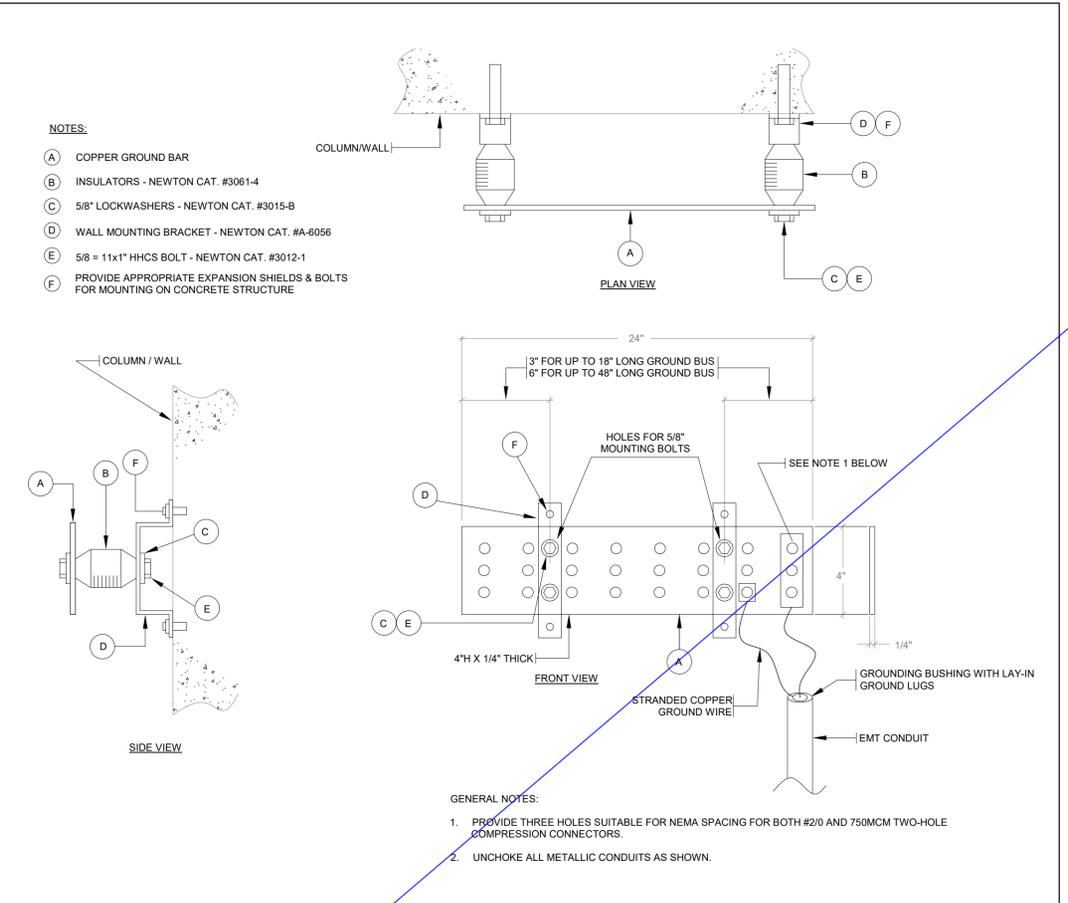
NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.



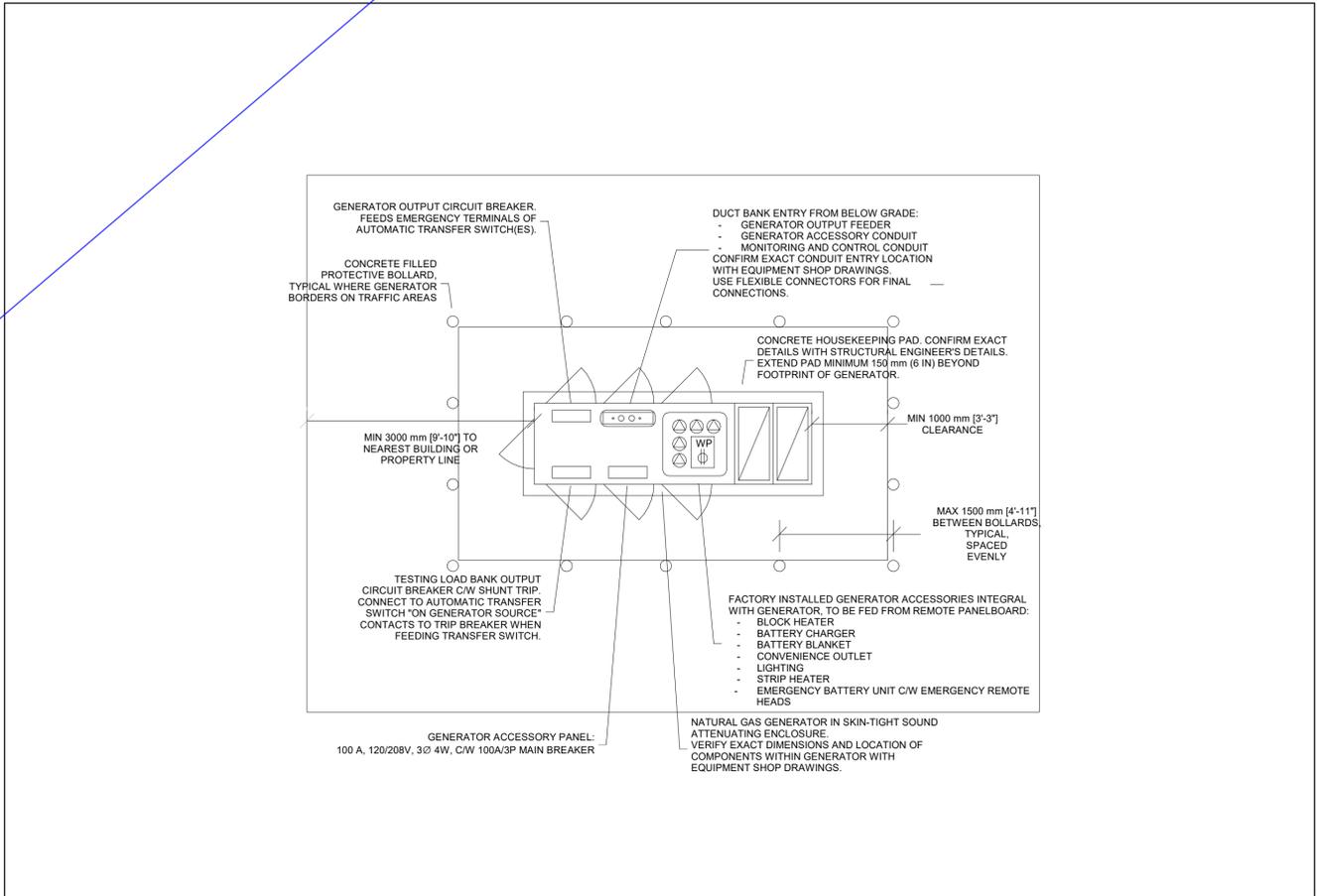
3 Ground Rod
SCALE:N.T.S.

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.



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



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
TEL: 905-507-0900
WWW.QUASARGROUP.COM

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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

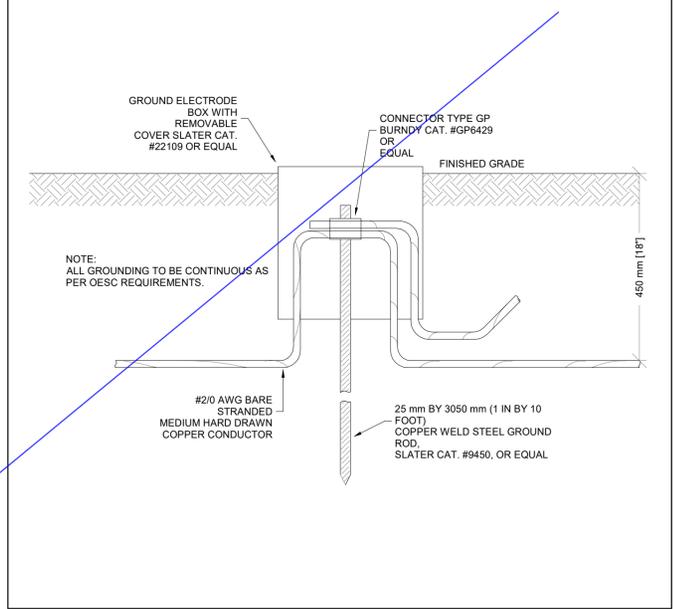
WIRE SIZE	BREAKER SIZE (AMPERES)	MAX. LOAD AT 80% (AMPERES)									
		15	20	30	40	50	60	70	80	100	
NO.12	----	16.8	12.2	-----	-----	-----	-----	-----	-----	-----	-----
NO.10	----	25.9	19.0	12.9	-----	-----	-----	-----	-----	-----	-----
NO.8	----	39.6	30.4	20.5	15.2	-----	-----	-----	-----	-----	-----
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

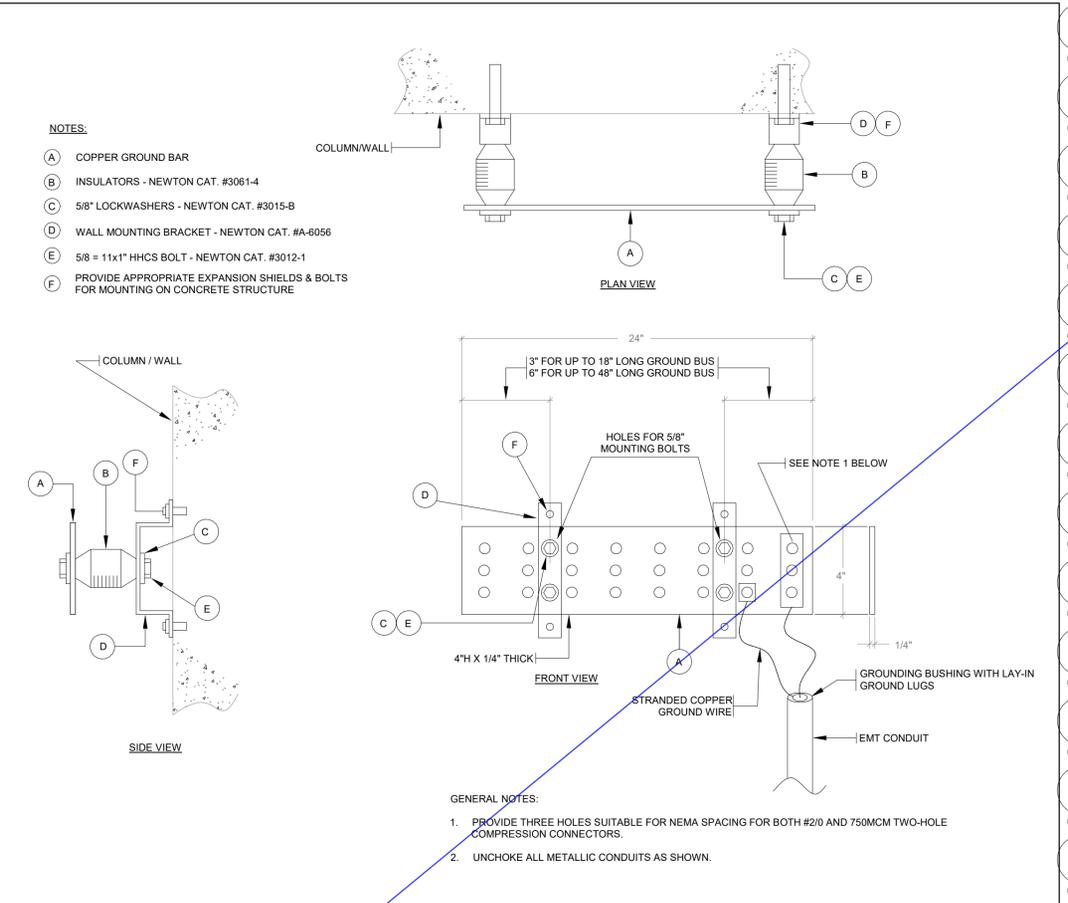
NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.



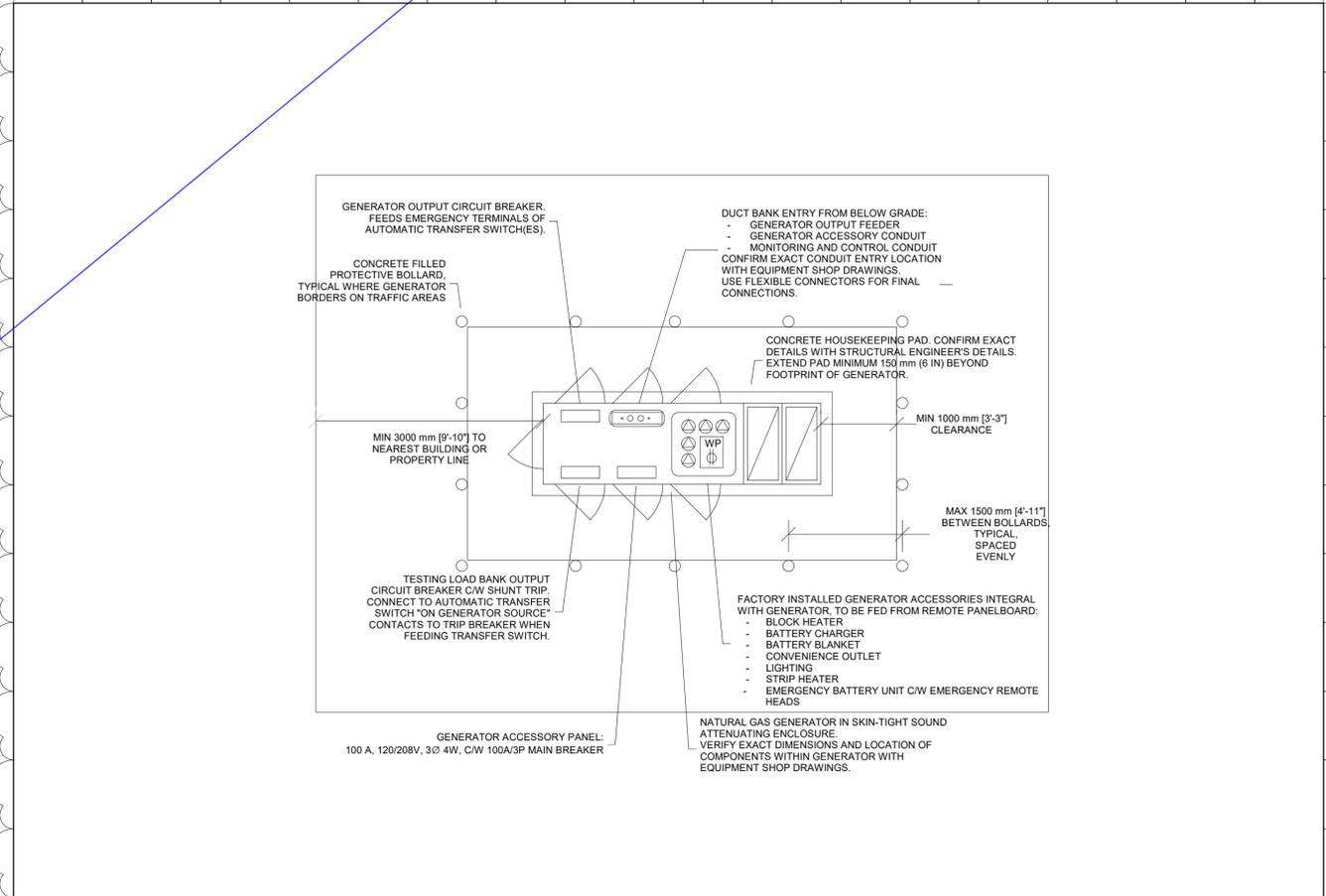
3 Ground Rod
SCALE:N.T.S.

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.



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

NO.	ISSUED	DATE

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

NO.	ISSUED	DATE
4	ISSUED FOR ADDENDUM 15	2024-12-04
3	ISSUED FOR ADDENDUM 8	2024-10-07
2	ISSUED FOR ADDENDUM 3	2024-09-23
1	ISSUED FOR TENDER	2024-09-09

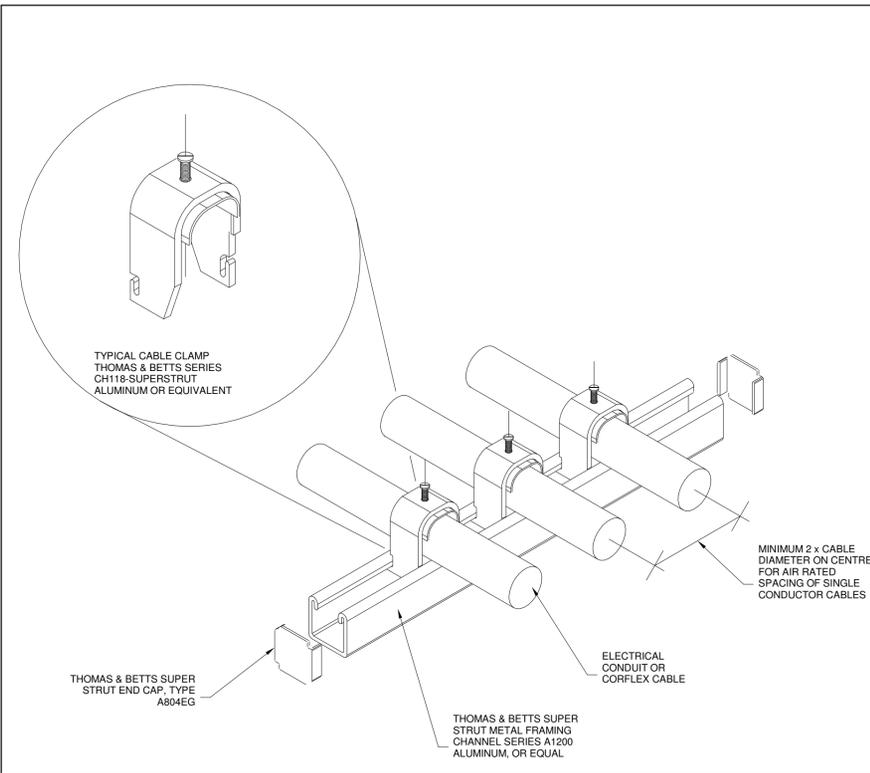
Issues

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

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

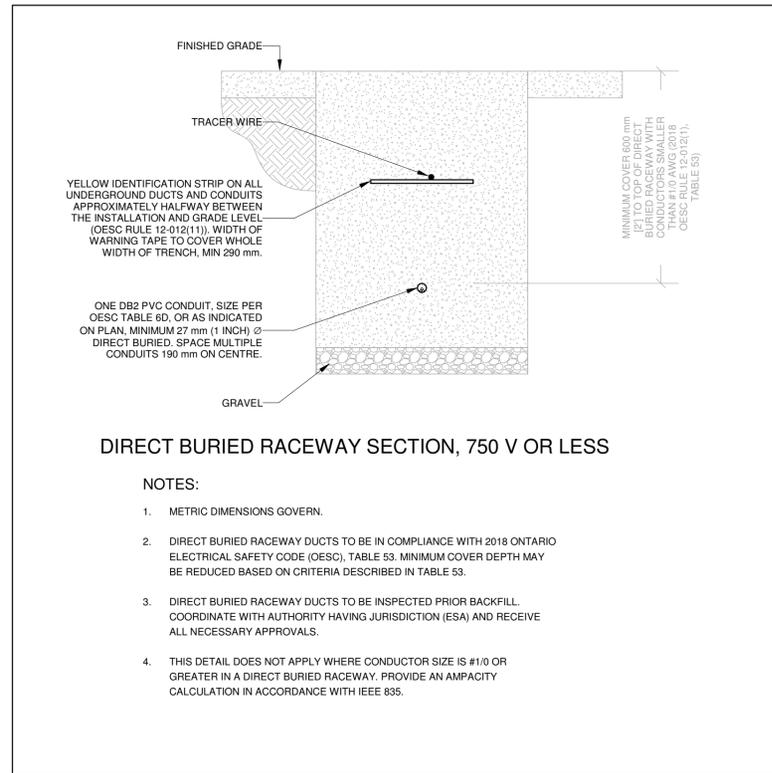
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ELECTRICAL DETAILS

Drawing
No:
E-803



1 **Strut Channel Suspension for Conduit and Cable**

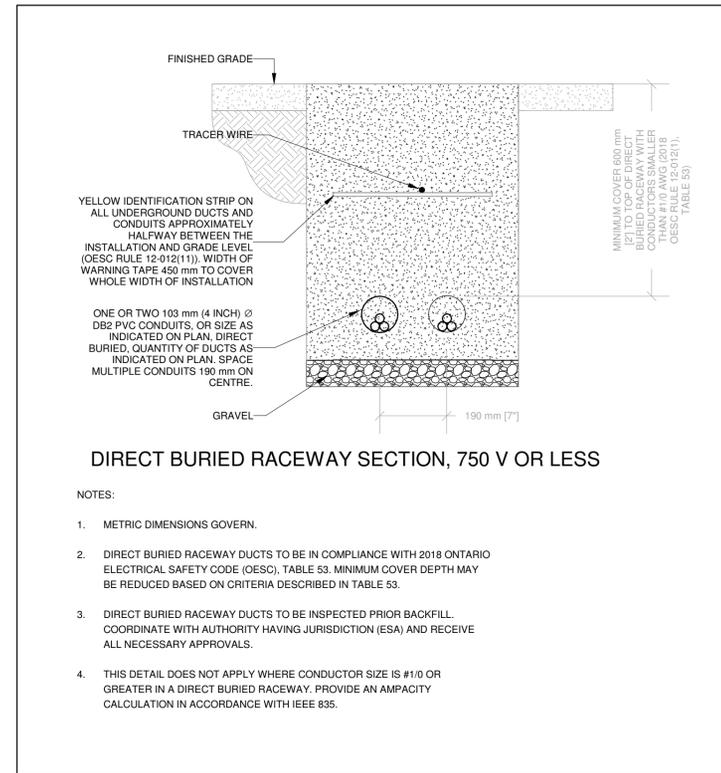
SCALE: 1 : 1



2 **Direct Buried Raceway Section, 750 V OR LESS**

NOTES:

- METRIC DIMENSIONS GOVERN.
- DIRECT BURIED RACEWAY DUCTS TO BE IN COMPLIANCE WITH 2018 ONTARIO ELECTRICAL SAFETY CODE (OESC), TABLE 53. MINIMUM COVER DEPTH MAY BE REDUCED BASED ON CRITERIA DESCRIBED IN TABLE 53.
- DIRECT BURIED RACEWAY DUCTS TO BE INSPECTED PRIOR BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION (ESA) AND RECEIVE ALL NECESSARY APPROVALS.
- THIS DETAIL DOES NOT APPLY WHERE CONDUCTOR SIZE IS #1/0 OR GREATER IN A DIRECT BURIED RACEWAY. PROVIDE AN AMPACITY CALCULATION IN ACCORDANCE WITH IEEE 835.



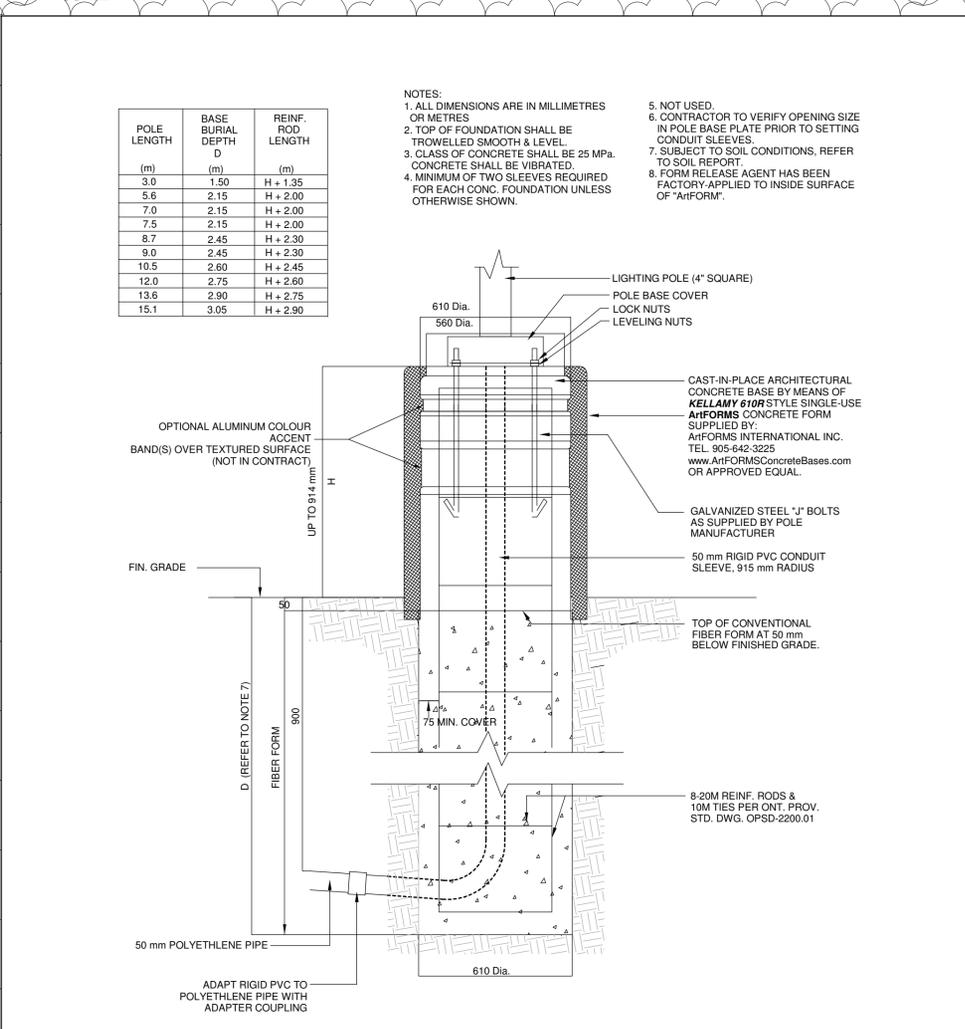
3 **Direct Buried Raceway Section, 750 V OR LESS**

NOTES:

- METRIC DIMENSIONS GOVERN.
- DIRECT BURIED RACEWAY DUCTS TO BE IN COMPLIANCE WITH 2018 ONTARIO ELECTRICAL SAFETY CODE (OESC), TABLE 53. MINIMUM COVER DEPTH MAY BE REDUCED BASED ON CRITERIA DESCRIBED IN TABLE 53.
- DIRECT BURIED RACEWAY DUCTS TO BE INSPECTED PRIOR BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION (ESA) AND RECEIVE ALL NECESSARY APPROVALS.
- THIS DETAIL DOES NOT APPLY WHERE CONDUCTOR SIZE IS #1/0 OR GREATER IN A DIRECT BURIED RACEWAY. PROVIDE AN AMPACITY CALCULATION IN ACCORDANCE WITH IEEE 835.

3 **Direct Buried Raceway Section, 750 V OR LESS**

SCALE: N.T.S.



4 **Lighting Standard High Architectural Base**

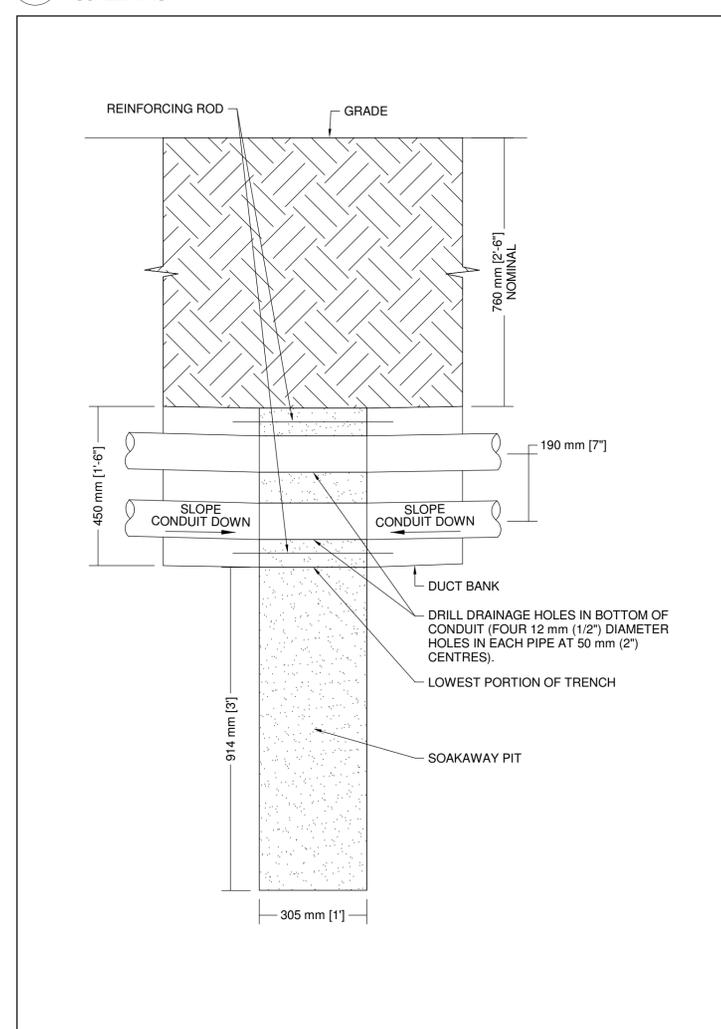
SCALE: N.T.S.

ELECTRICAL ENERGY EFFICIENCY NOTES FOR PERMIT (ONTARIO BUILDING CODE SB-10)

ITEM	DESCRIPTION	CODE REFERENCE	SPECIFICATION REFERENCE
1A.	FEEDER CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.	26 05 19
1B.	BRANCH CIRCUIT CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.	26 05 19
2.	50% RECEPTACLE CONTROLS IN CONFERENCE ROOMS, COPY ROOMS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.2.	26 09 23
3.	MEASUREMENT DEVICES ROUGHED IN TO MONITOR THE ELECTRICAL ENERGY USE FOR EACH OF THE FOLLOWING UNLESS EXEMPT: A. TOTAL ELECTRICAL ENERGY; B. HVAC; C. INTERIOR LIGHTING; D. EXTERIOR LIGHTING; E. RECEPTACLE CIRCUITS.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.3.	26 27 13
4.	NEW LOW-VOLTAGE TRANSFORMERS TO MEET THE NOMINAL EFFICIENCIES SHOWN IN ASHRAE 90.1-2013, TABLE 9.4.4, UNLESS EXEMPT.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.4.	26 22 13
5.	PROVIDE LIGHTING CONTROL FUNCTIONS FOR EACH SPACE IN THE BUILDING PER PER ASHRAE 90.1-2013 TABLE 9.6.1. ASHRAE 90.1 EXEMPTIONS: -NORMALLY OFF EMERGENCY LIGHTING -DWELLING UNITS -LIFE SAFETY OR OTHER ORDINANCE	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1.	26 09 23
5.1.	SPACES PROVIDED WITH READILY ACCESSIBLE LOCAL CONTROLS.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1A.	26 09 23
5.2.	MAXIMUM OCCUPANCY SENSOR TIMEOUT 20 MINUTES.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1G, ASHRAE 90.1-2013, 9.4.1.1H.	26 09 23
6.1.	PARKING GARAGE LIGHTING TO BE PROVIDED WITH AUTOMATIC CONTROLS PER ASHRAE 90.1-2017 SECTION 9.4.1.2.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	
6.2.	PARKING GARAGE LIGHTING TO AUTOMATICALLY REDUCE LIGHTING POWER BY AT LEAST 30% BASED ON OCCUPANCY	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	
6.3.	PARKING GARAGE DAYLIGHT TRANSITION ZONE TO BE ON A SEPARATE SCHEDULE.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	
6.4.	PARKING GARAGE LUMINAIRES TO BE PROVIDED WITH DAYLIGHT HARVESTING, IF NET OPENING-TO-WALL RATIO IS GREATER THAN 40% UNLESS EXEMPT.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	
7.	PROVIDE ADDITIONAL CONTROLS FOR SPECIAL APPLICATIONS LISTED ASHRAE 90.1 SECTION 9.4.1.3.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.3.	26 09 23
8.	INTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.2.2.3 AS MODIFIED BY SB-10.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.2.2.3.	26 51 00
9.1.	PROVIDE A PHOTOSENSOR FOR AUTOMATIC SHUTOFF OF EXTERIOR LIGHTS WHEN AVAILABLE DAYLIGHT IS SUFFICIENT.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 23
9.2.	PROVIDE A SHUTOFF FOR LANDSCAPE AND FACADE LIGHTING BETWEEN THE HOURS OF MIDNIGHT AND 6:00 A.M.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 26
9.3.	PROVIDE CONTROL TO REDUCE ILLUMINATED SIGNAGE POWER BY AT LEAST 30% BETWEEN MIDNIGHT AND 6:00 A.M.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 26
10.	EXTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.4.2. AS MODIFIED BY SB-10.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.2.	26 53 00
11.	LIGHTING CONTROLS MANUFACTURER'S REPRESENTATIVE TO PROVIDE FUNCTIONAL TESTING AND REPORT IN ACCORDANCE WITH ASHRAE 90.1-2013.	OBC SB-10, ASHRAE 90.1-2010, 9.4.4.	26 09 23

5 **Electrical SB-10 Notes**

SCALE: 1 : 1



6 **Duct Bank Soakaway Pit**

SCALE: 1 : 10

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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

Issues

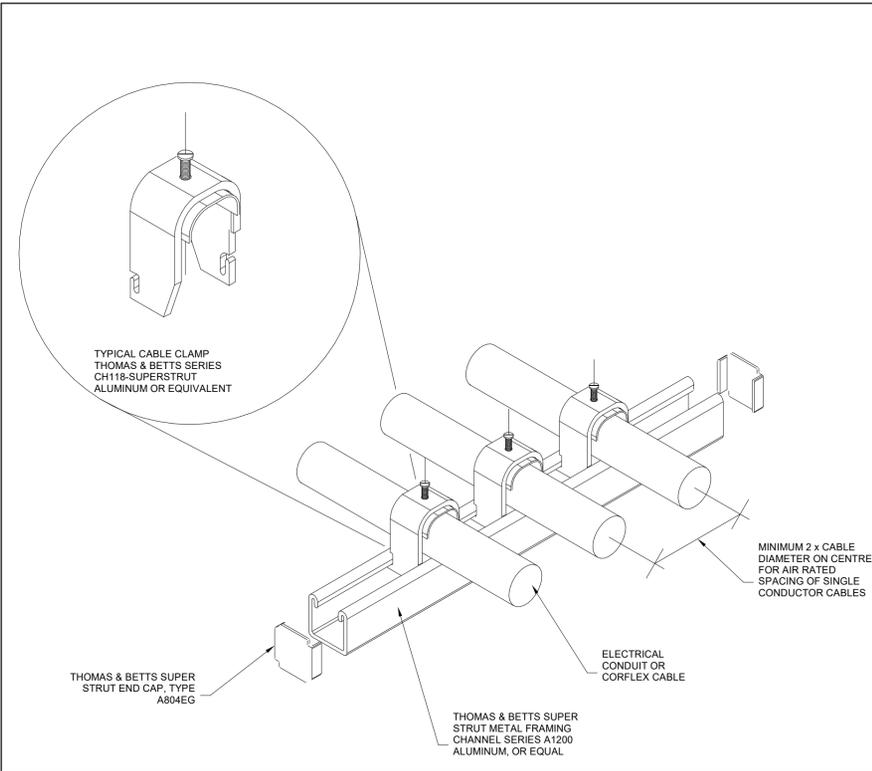
All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

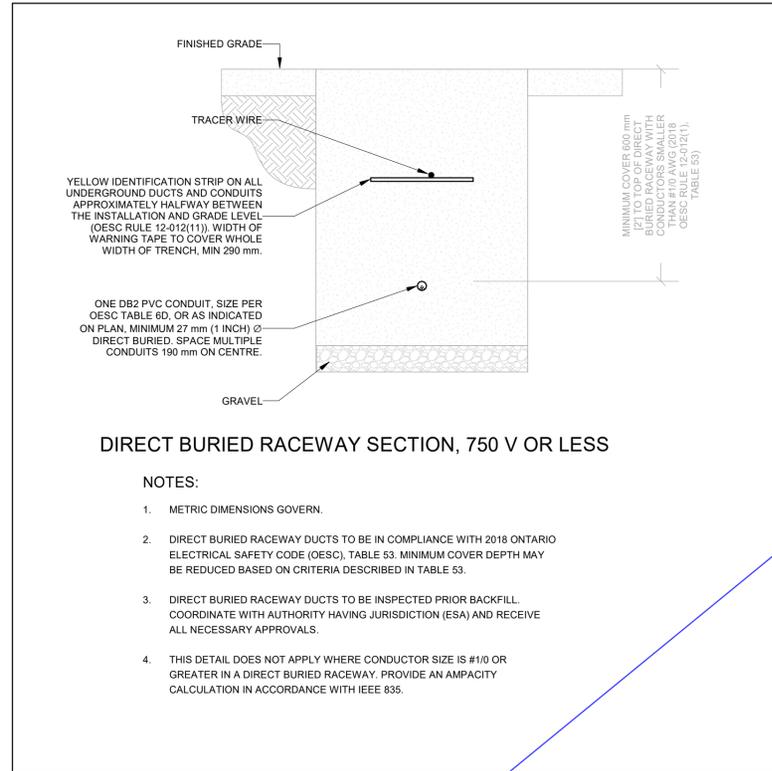
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Checked by: Checker
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: As indicated

Sheet
Title:
ELECTRICAL DETAILS

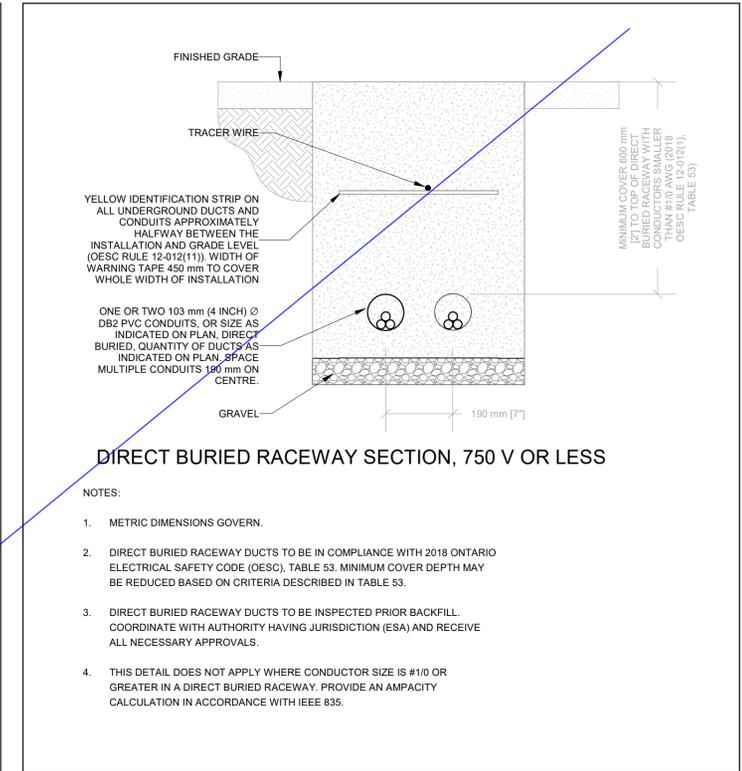
Drawing
No:
E-803



1 **Strut Channel Suspension for Conduit and Cable**
SCALE: 1 : 1



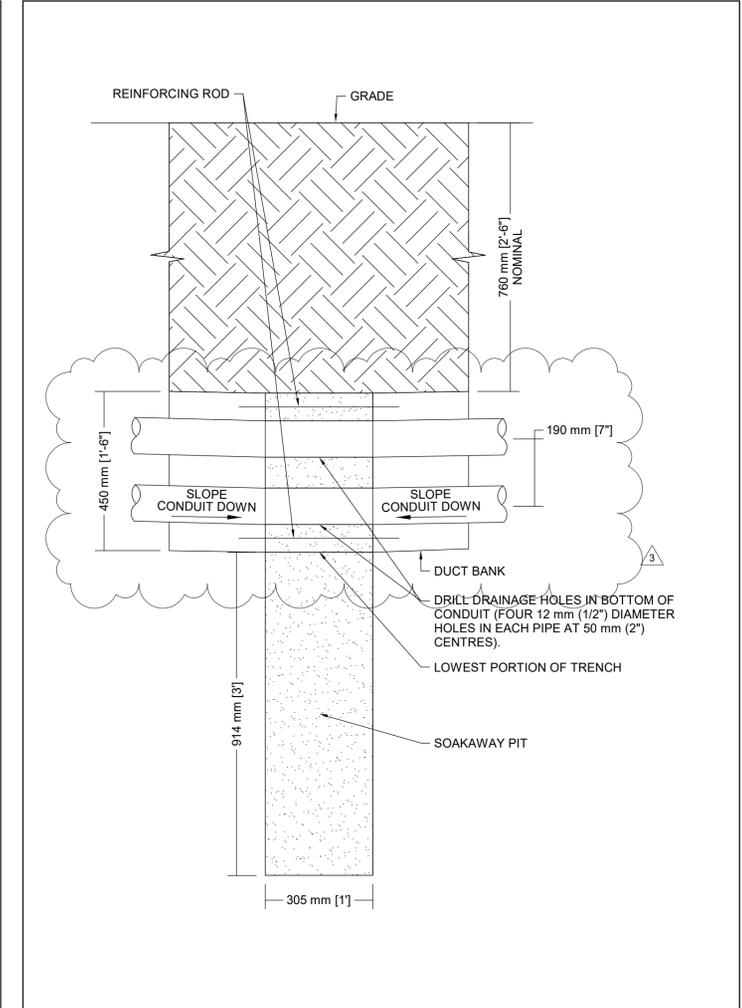
2 **Direct Buried Branch Circuit Ducts**
SCALE: N.T.S.



3 **Direct Buried Ducts**
SCALE: N.T.S.

ELECTRICAL ENERGY EFFICIENCY NOTES FOR PERMIT (ONTARIO BUILDING CODE SB-10)			
ITEM	DESCRIPTION	CODE REFERENCE	SPECIFICATION REFERENCE
1A.	FEEDER CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.1.	26 05 19
1B.	BRANCH CIRCUIT CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.1.	26 05 19
2.	50% RECEPTACLE CONTROLS IN CONFERENCE ROOMS, COPY ROOMS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.2.	26 09 23
3.	MEASUREMENT DEVICES ROUGHED IN TO MONITOR THE ELECTRICAL ENERGY USE FOR EACH OF THE FOLLOWING UNLESS EXEMPT: A. TOTAL ELECTRICAL ENERGY, B. HVAC, C. INTERIOR LIGHTING, D. EXTERIOR LIGHTING, E. RECEPTACLE CIRCUITS.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.3.	26 27 13
4.	NEW LOW-VOLTAGE TRANSFORMERS TO MEET THE NOMINAL EFFICIENCIES SHOWN IN ASHRAE 90.1-2013, TABLE 8.4.4, UNLESS EXEMPT	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.4.	26 22 13
5.	PROVIDE LIGHTING CONTROL FUNCTIONS FOR EACH SPACE IN THE BUILDING PER ASHRAE 90.1-2013 TABLE 9.6.1. ASHRAE 90.1 EXEMPTIONS: -NORMALLY OFF EMERGENCY LIGHTING -DWELLING UNITS -LIFE SAFETY OR OTHER ORDINANCE	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1.	26 09 23
5.1.	SPACES PROVIDED WITH READILY ACCESSIBLE LOCAL CONTROLS.	OBC SB-10 2017, ASHRAE 90.1-2017, 9.4.1.1A.	26 09 23
5.2.	MAXIMUM OCCUPANCY SENSOR TIMEOUT 20 MINUTES.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1G, ASHRAE 90.1-2013, 9.4.1.1H.	26 09 23
6.1.	PARKING GARAGE LIGHTING TO BE PROVIDED WITH AUTOMATIC CONTROLS PER ASHRAE 90.1-2017 SECTION 9.4.1.2.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	26 09 23
6.2.	PARKING GARAGE LIGHTING TO AUTOMATICALLY REDUCE LIGHTING POWER BY AT LEAST 30% BASED ON OCCUPANCY	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	26 09 23
6.3.	PARKING GARAGE DAYLIGHT TRANSITION ZONE TO BE ON A SEPARATE SCHEDULE.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	26 09 23
6.4.	PARKING GARAGE LUMINAIRES TO BE PROVIDED WITH DAYLIGHT HARVESTING, IF NET OPENING-TO WALL RATIO IS GREATER THAN 40% UNLESS EXEMPT.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	26 09 23
7.	PROVIDE ADDITIONAL CONTROLS FOR SPECIAL APPLICATIONS LISTED ASHRAE 90.1 SECTION 9.4.1.3.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.3.	26 09 23
8.	INTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.2.2.3 AS MODIFIED BY SB-10.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.2.2.3.	26 51 00
9.1.	PROVIDE A PHOTOSENSOR FOR AUTOMATIC SHUTOFF OF EXTERIOR LIGHTS WHEN AVAILABLE DAYLIGHT IS SUFFICIENT	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 23
9.2.	PROVIDE A SHUTOFF FOR LANDSCAPE AND FACADE LIGHTING BETWEEN THE HOURS OF MIDNIGHT AND 6:00 A.M.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 26
9.3.	PROVIDE CONTROL TO REDUCE ILLUMINATED SIGNAGE POWER BY AT LEAST 30% BETWEEN MIDNIGHT AND 6:00 A.M.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 26
10.	EXTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.4.2. AS MODIFIED BY SB-10.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.2.	26 53 00
11.	LIGHTING CONTROLS MANUFACTURER'S REPRESENTATIVE TO PROVIDE FUNCTIONAL TESTING AND REPORT IN ACCORDANCE WITH ASHRAE 90.1-2013.	OBC SB-10, ASHRAE 90.1-2010, 9.4.4.	26 09 23

5 **Electrical SB-10 Notes**
SCALE: 1 : 1

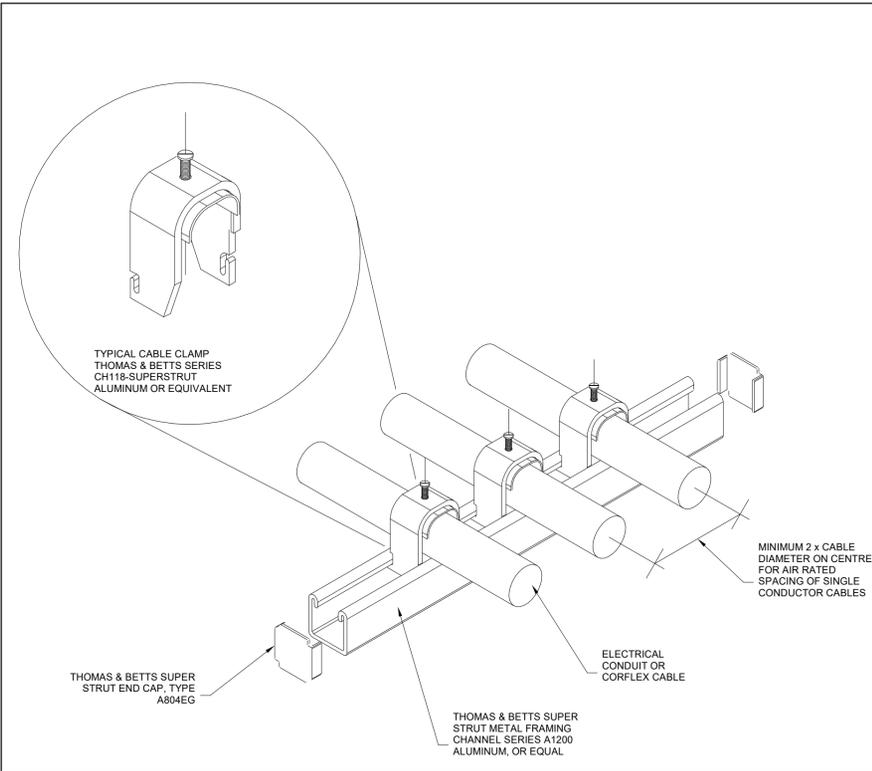


6 **Duct Bank Soakaway Pit**
SCALE: 1 : 10

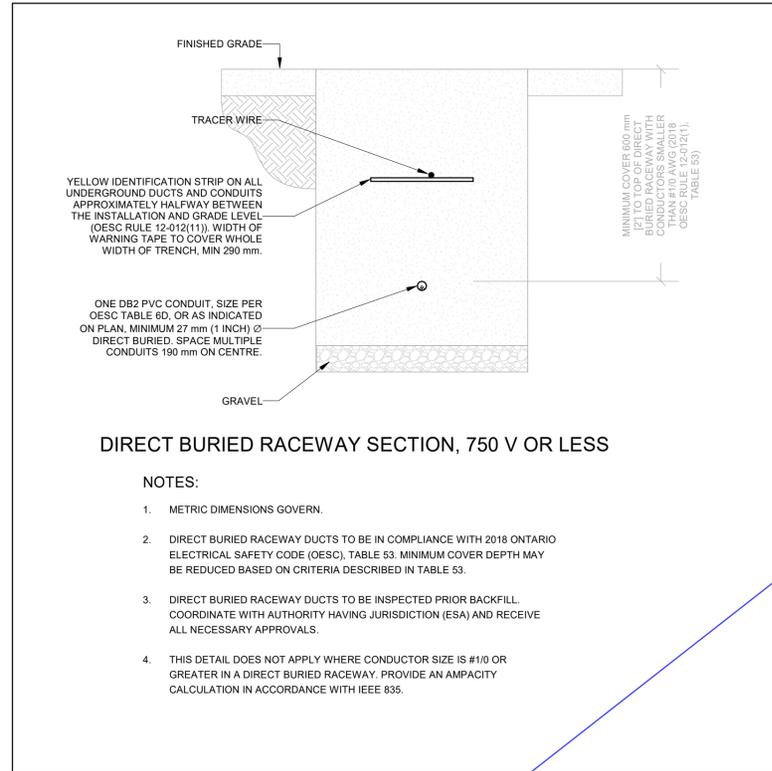
YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

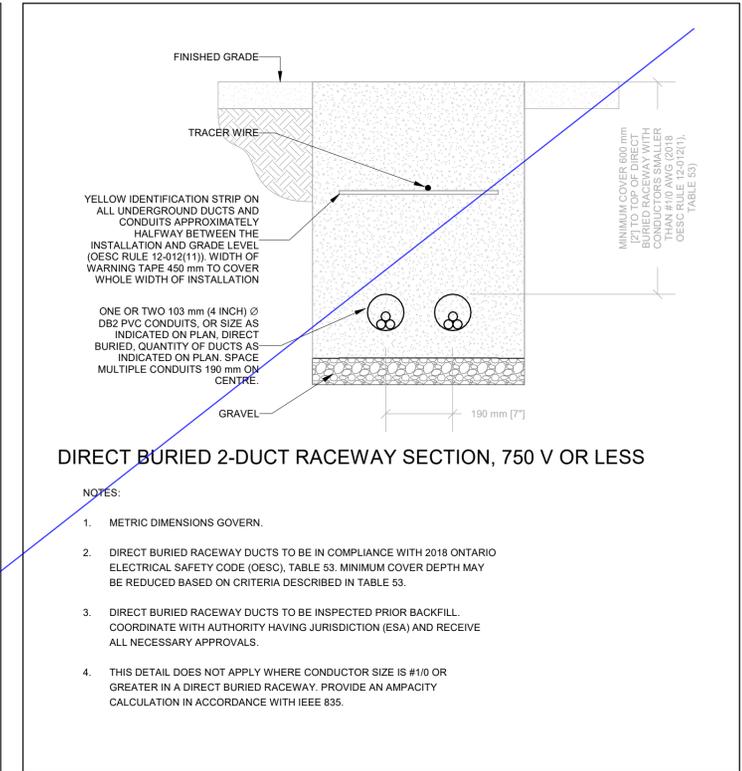
Key
Plan



1 Strut Channel Suspension for Conduit and Cable
SCALE: 1 : 1



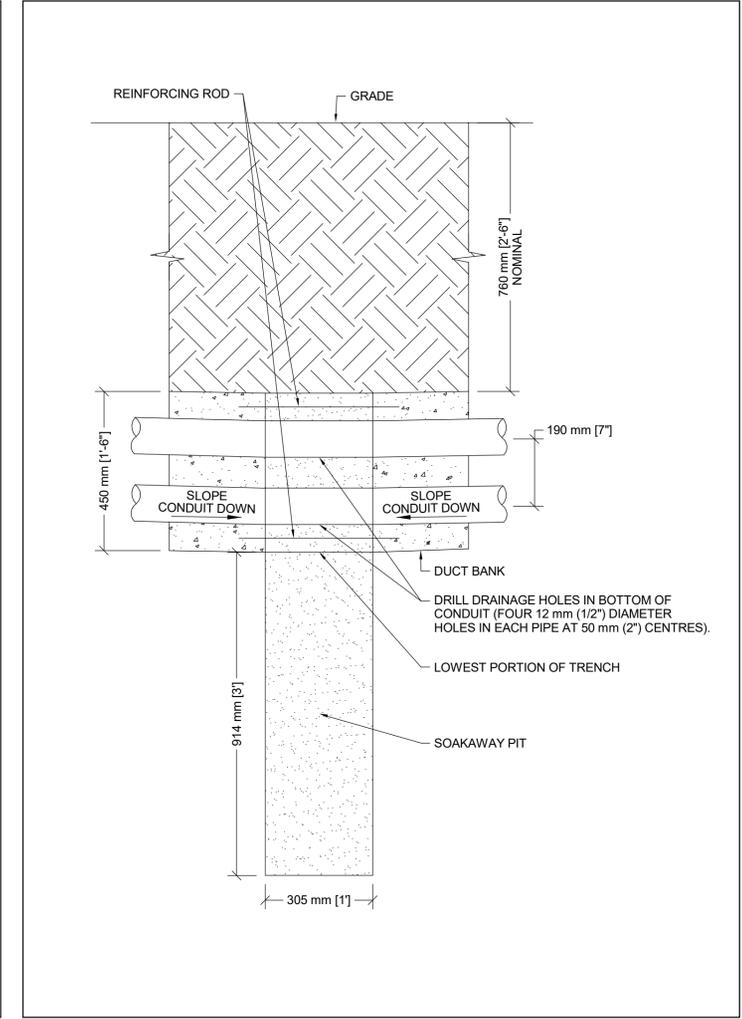
2 2018 OESC 1Wx1H x 1in Direct Buried Branch Circuit Ducts
SCALE: N.T.S.



3 2018 OESC 1Wx1H x 4in Direct Buried Branch Circuit Ducts
SCALE: N.T.S.

ELECTRICAL ENERGY EFFICIENCY NOTES FOR PERMIT (ONTARIO BUILDING CODE SB-10)			
ITEM	DESCRIPTION	CODE REFERENCE	SPECIFICATION REFERENCE
1A.	FEEDER CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.1.	26 05 19
1B.	BRANCH CIRCUIT CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.1.	26 05 19
2.	50% RECEPTACLE CONTROLS IN CONFERENCE ROOMS, COPY ROOMS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.2.	26 09 23
3.	MEASUREMENT DEVICES ROUGHED IN TO MONITOR THE ELECTRICAL ENERGY USE FOR EACH OF THE FOLLOWING UNLESS EXEMPT: A. TOTAL ELECTRICAL ENERGY, B. HVAC, C. INTERIOR LIGHTING, D. EXTERIOR LIGHTING, E. RECEPTACLE CIRCUITS.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.3.	26 27 13
4.	NEW LOW-VOLTAGE TRANSFORMERS TO MEET THE NOMINAL EFFICIENCIES SHOWN IN ASHRAE 90.1-2013, TABLE 8.4.4, UNLESS EXEMPT.	OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.4.	26 22 13
5.	PROVIDE LIGHTING CONTROL FUNCTIONS FOR EACH SPACE IN THE BUILDING PER PER ASHRAE 90.1-2013 TABLE 9.6.1. ASHRAE 90.1 EXEMPTIONS: -NORMALLY OFF EMERGENCY LIGHTING -DWELLING UNITS -LIFE SAFETY OR OTHER ORDINANCE	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1.	26 09 23
5.1.	SPACES PROVIDED WITH READILY ACCESSIBLE LOCAL CONTROLS.	OBC SB-10 2017, ASHRAE 90.1-2017, 9.4.1.1A.	26 09 23
5.2.	MAXIMUM OCCUPANCY SENSOR TIMEOUT 20 MINUTES.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1G, ASHRAE 90.1-2013, 9.4.1.1H.	26 09 23
6.1.	PARKING GARAGE LIGHTING TO BE PROVIDED WITH AUTOMATIC CONTROLS PER ASHRAE 90.1-2017 SECTION 9.4.1.2.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	26 09 23
6.2.	PARKING GARAGE LIGHTING TO AUTOMATICALLY REDUCE LIGHTING POWER BY AT LEAST 30% BASED ON OCCUPANCY	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	26 09 23
6.3.	PARKING GARAGE DAYLIGHT TRANSITION ZONE TO BE ON A SEPARATE SCHEDULE.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	26 09 23
6.4.	PARKING GARAGE LUMINAIRES TO BE PROVIDED WITH DAYLIGHT HARVESTING, IF NET OPENING-TO WALL RATIO IS GREATER THAN 40% UNLESS EXEMPT.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2.	26 09 23
7.	PROVIDE ADDITIONAL CONTROLS FOR SPECIAL APPLICATIONS LISTED ASHRAE 90.1 SECTION 9.4.1.3.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.3.	26 09 23
8.	INTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.2.2.3 AS MODIFIED BY SB-10.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.2.2.3.	26 51 00
9.1.	PROVIDE A PHOTOSENSOR FOR AUTOMATIC SHUTOFF OF EXTERIOR LIGHTS WHEN AVAILABLE DAYLIGHT IS SUFFICIENT.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 23
9.2.	PROVIDE A SHUTOFF FOR LANDSCAPE AND FACADE LIGHTING BETWEEN THE HOURS OF MIDNIGHT AND 6:00 A.M.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 26
9.3.	PROVIDE CONTROL TO REDUCE ILLUMINATED SIGNAGE POWER BY AT LEAST 30% BETWEEN MIDNIGHT AND 6:00 A.M.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 26
10.	EXTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.4.2. AS MODIFIED BY SB-10.	OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.2.	26 53 00
11.	LIGHTING CONTROLS MANUFACTURER'S REPRESENTATIVE TO PROVIDE FUNCTIONAL TESTING AND REPORT IN ACCORDANCE WITH ASHRAE 90.1-2013.	OBC SB-10, ASHRAE 90.1-2010, 9.4.4.	26 09 23

5 Electrical SB-10 Notes
SCALE: 1 : 1



6 Duct Bank Soakaway Pit
SCALE: 1 : 10

NO.	ISSUED	DATE
2	ISSUED FOR ADDENDUM 3	2024-09-23
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

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Project No: TT-24-005
Scale: As indicated

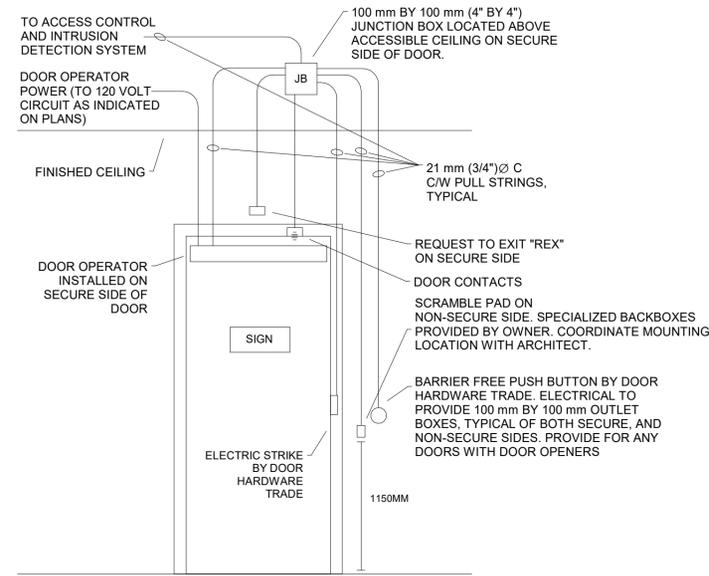
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ELECTRICAL DETAILS

Drawing
No:
E-803

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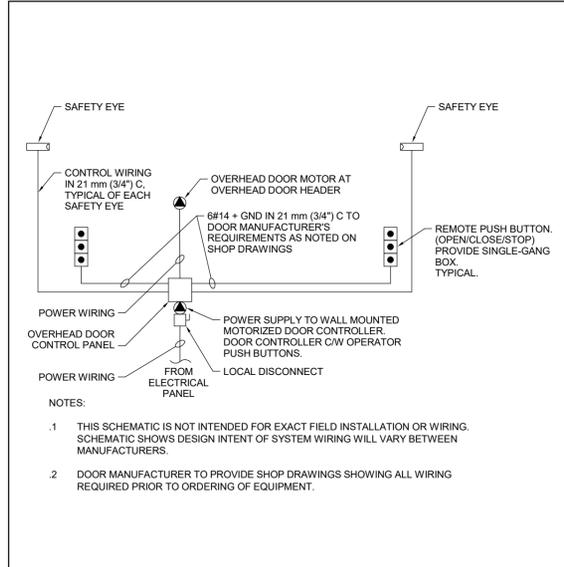
350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

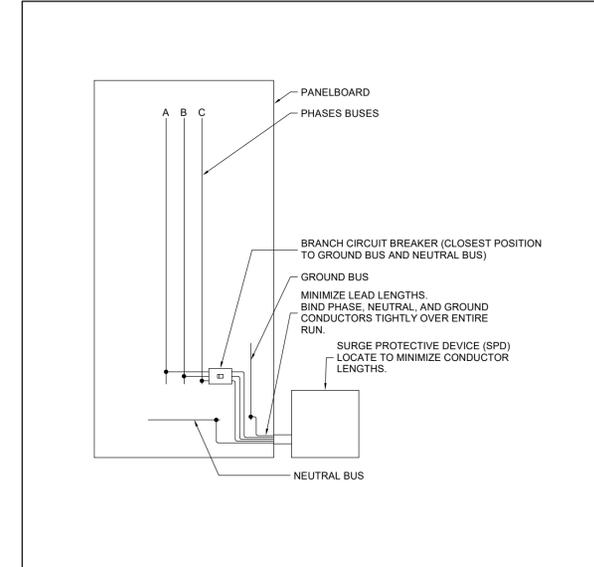


NOTES:

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.

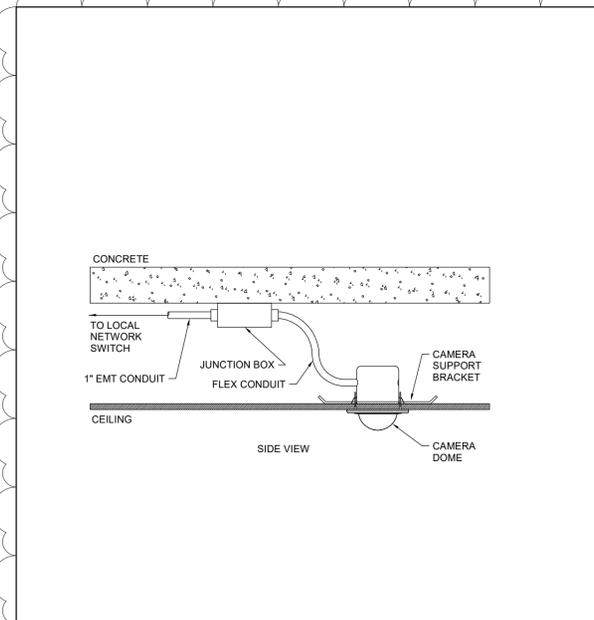


2 Wiring Diagram for Overhead Doors
SCALE: 1 : 50

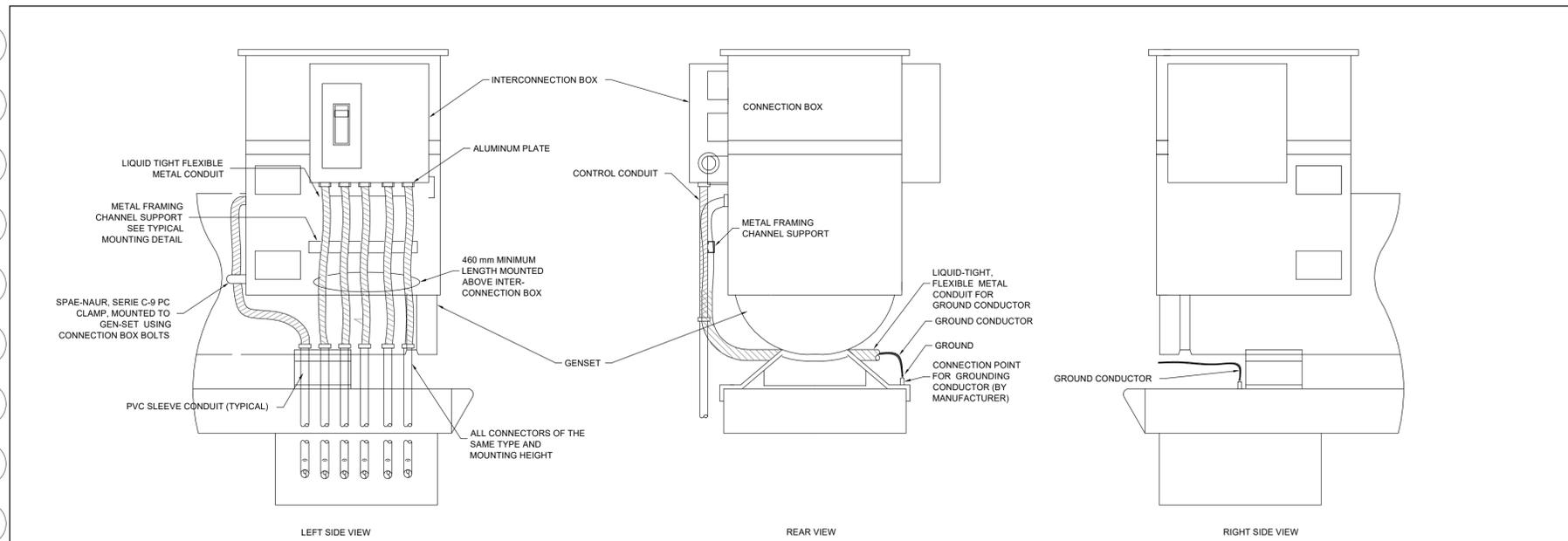


4 EXTERNALLY MOUNTED SURGE PROTECTION
SCALE: 1 : 50

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

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Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: As indicated

Sheet
Title:
ELECTRICAL DETAILS

Drawing
No:
E-805

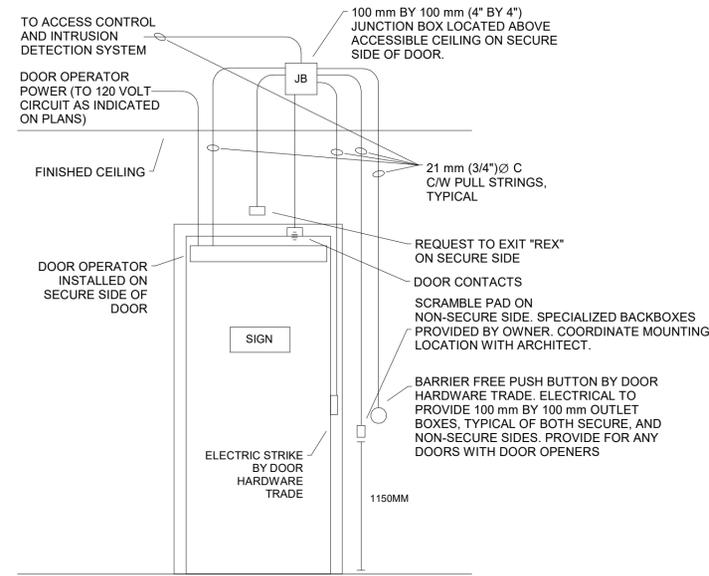


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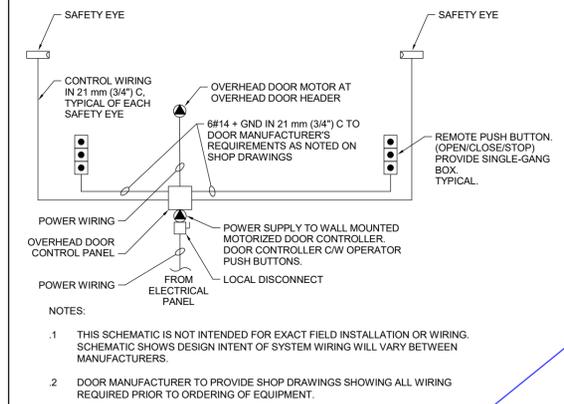
350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

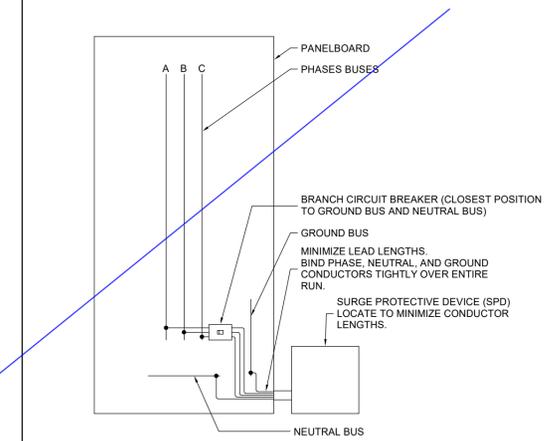


NOTES:

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3. INTERLOCK OPERATION OF DOOR OPERATOR WITH SCRAMBLE PAD ON THE NON-SECURE SIDE.

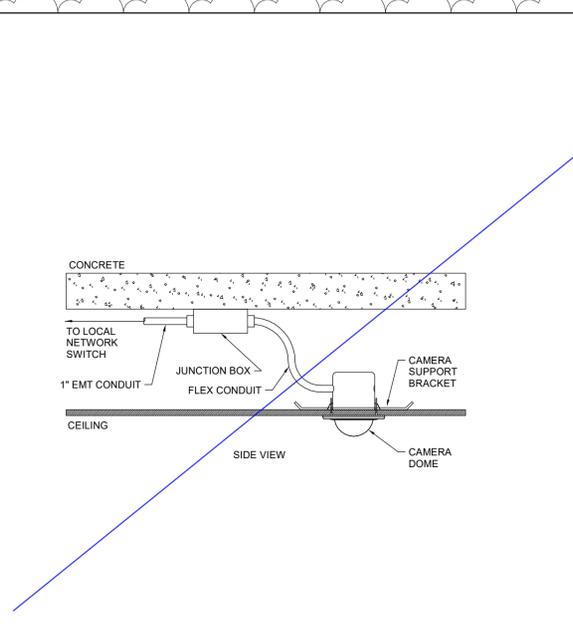


2 **Wiring Diagram for Overhead Doors**
SCALE: 1 : 50

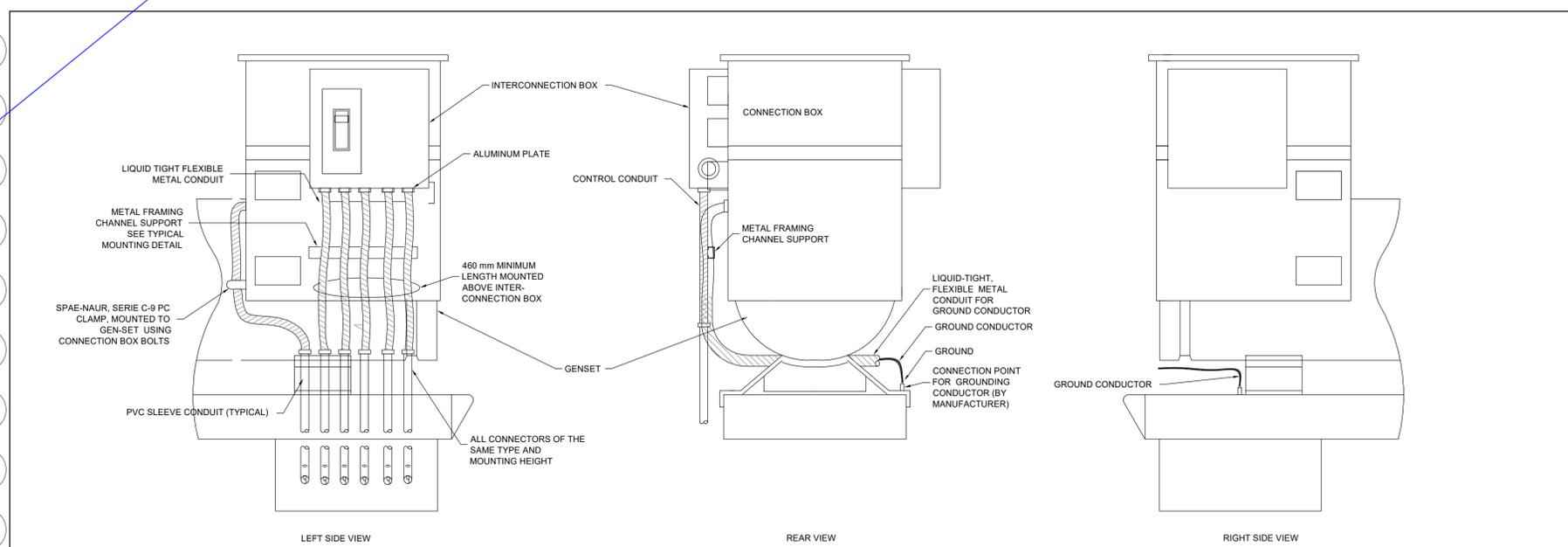


4 **EXTERNALLY MOUNTED SURGE PROTECTION**
SCALE: 1 : 50

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

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Scale: As indicated

Sheet
Title:
ELECTRICAL DETAILS

Drawing
No:
E-805

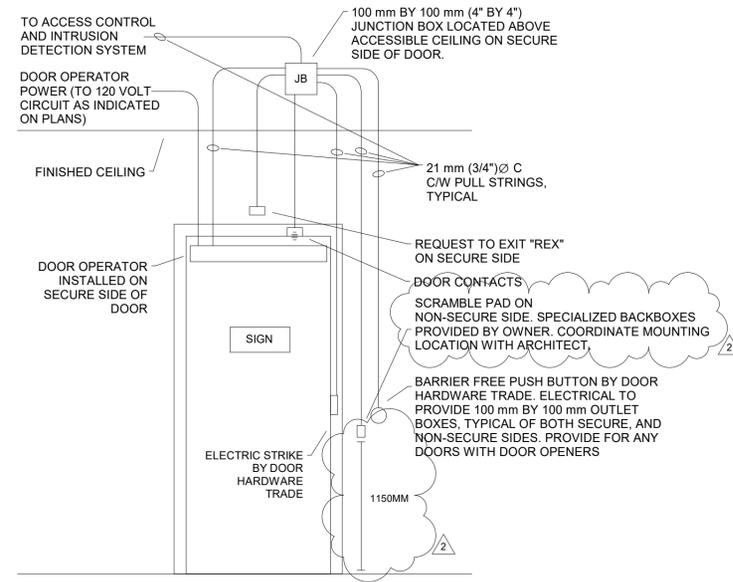


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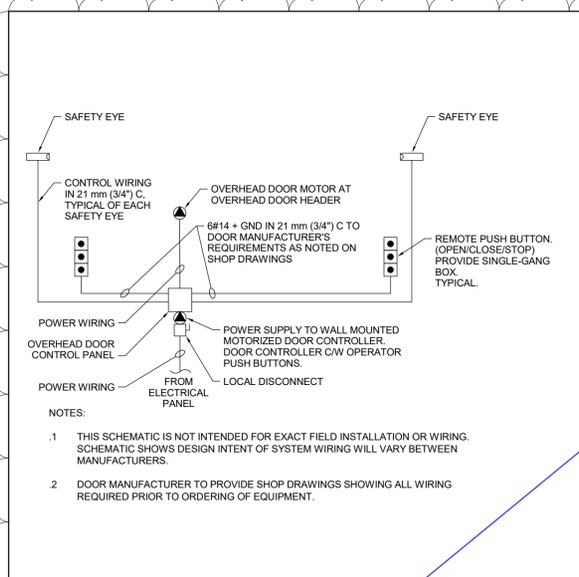
350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan



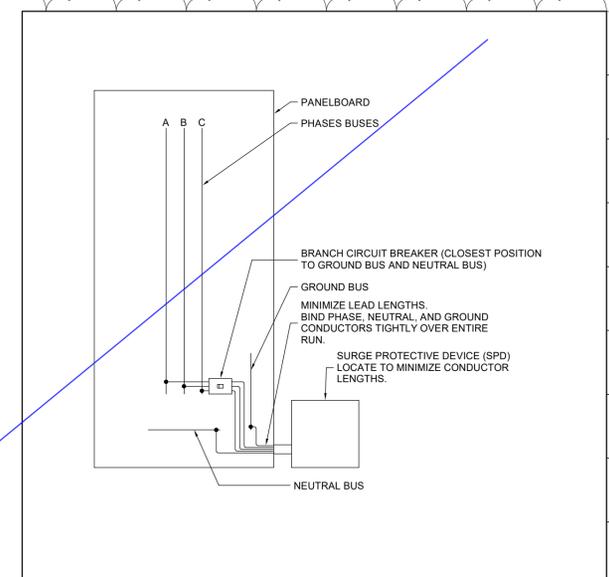
NOTES:

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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

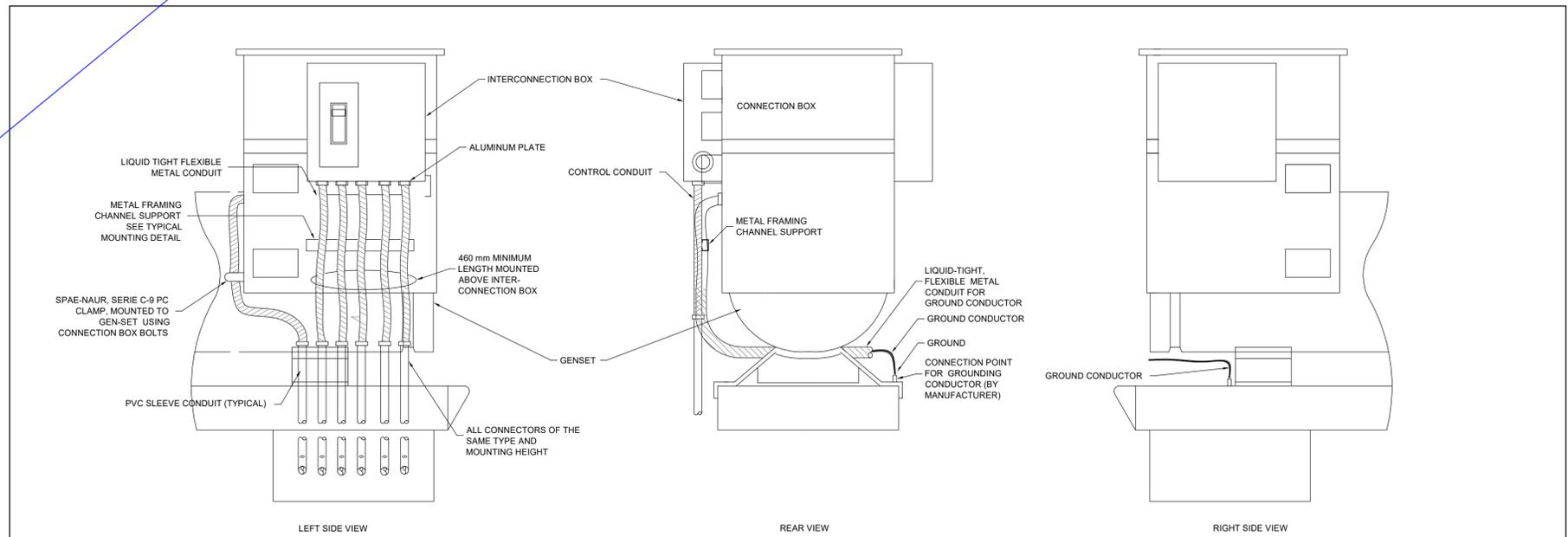


4 **EXTERNALLY MOUNTED SURGE PROTECTION**

SCALE: 1 : 50

3 **Access Control Rough-In**

SCALE: 1 : 1



1 **ENGINE GENERATOR BOTTOM FEED**

SCALE: N.T.S.

NO.	ISSUED	DATE
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

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Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: As indicated

Sheet
Title:
ELECTRICAL DETAILS

Drawing
No:
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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

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

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

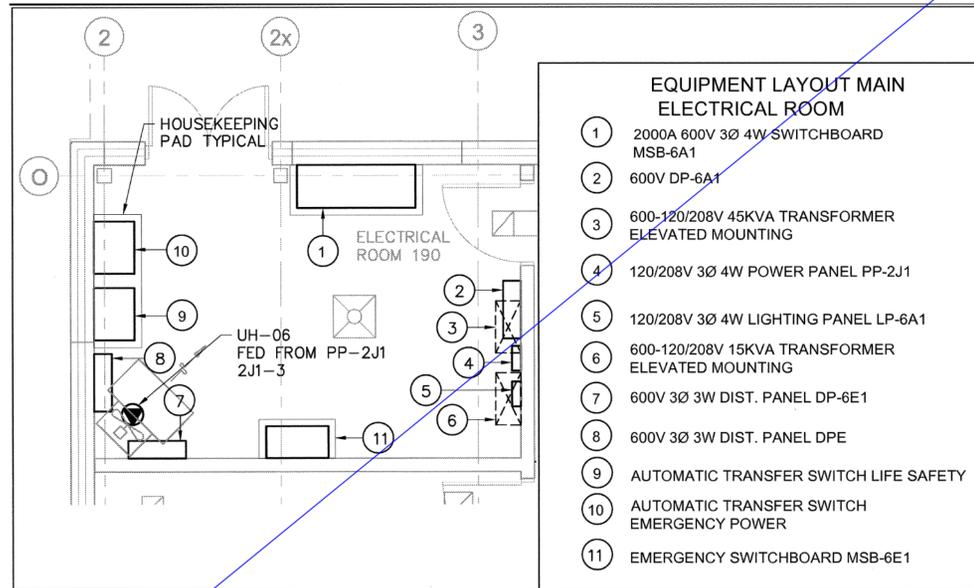
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2 MAIN ELECTRICAL ROOM - EXTERIOR VIEW1
SCALE:N.T.S.



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



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



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Key Plan

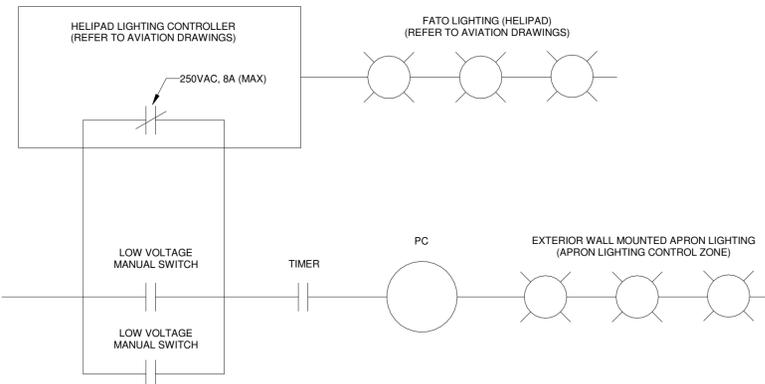
LIGHT FIXTURE SCHEDULE												
	TYPE	MANUFACTURER	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	LUMENS	DIMMABLE	CCT	MOUNTING HEIGHT	Count	
D1	LFR-4RD-M-15L35K8W-DM1_LFR-4RD-T-CL-S	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	12 W	1404	0-10V	3500K	3m	19	
D2	LFR-4RD-M-20L35K8-DM1_LFR-4RD-T-SH-WT	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	15 W	1238	0-10V	3500K	3m	4	
F2	SDL-3-1ACF-24G-40-35K-MV	PEERLESS-ELECTRIC	2' x 4' LED luminaire for recessed installation in an exposed flat	RECESSED	120 V	32 W	3968	0-10V	3500K	3m	29	
F3	SDL-3-1ACF-22G-40-35K-MV	PEERLESS-ELECTRIC	2' x 2' LED luminaire for recessed installation in an exposed flat	RECESSED	120 V	37 W	4070	0-10V	3500K	3m	2	
FL1	NOT USED				120 V	22 W		Modify name as required			1	
L2	LXDI-40-6L4-4-80-35K-FA-W	PEERLESS-ELECTRIC	LED luminaire for suspended (with aircraft cables)	SUSPEND	120 V	64 W	3225		3500K	2.4m	1	
PA	AP4-HB-4-200-35K-A6	PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SURFACE	120 V	165 W	20000	0-10V	3500K	7.7m	12	
PB	AP4-HB-4-150-35K-A6	PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SURFACE	120 V	119 W	15000	0-10V	3500K	4.5m	15	
PC	AP2W-4-42-35K-A2	PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SUSPENDED	120 V	35 W	4200	0-10V	3500K	3m	1	
PD	HEM4-35ML-DFA-EU	PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SUSPENDED	120 V	46 W	5425	0-10V	3500K	3m	4	
Z1	VPW3-160L-95-3K7-4	BEACON VIPER WALL	Exterior Wall-mounted Low profile LED luminaire	WALL	120 V	91 W	12595	0-10V	3500K	8m	2	
Z2	VPW2-18L-50-3K7-4W	BEACON VIPER WALL	Exterior Wall-mounted Low profile LED luminaire	WALL	120 V	53 W	6138	0-10V	3000K	4.1m	11	
Z3	LFR-4RD-M-10L30K8W-DM1_LFR-4RD-T-CL-S	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	8 W	903	0-10V	3000K	2.75m	1	
ZL8	SAME AS ZL20			POLE-MOUNTED	120 V	35 W				3.05m	6	
ZL10	SAME AS ZL20			POLE-MOUNTED	120 V	35 W				3.96m	1	
ZL12	SAME AS ZL20			POLE-MOUNTED	120 V	35 W				4.57m	1	
ZL20	VP-1-160L-35-3K7-4-BC-PC	BEACON	EXTERIOR POLE MOUNTED LIGHT	POLE-MOUNTED	120 V	35 W	2816		3000K	7m	6	
Grand total: 116												

EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP															
LOAD (WATTS)	WIRE SIZE	LENGTH OF WIRE RUN (FEET)													
		13	18	25	30	35	50	60	75	100	150	200	250	300	400
6	12	41	30	21	18	15	11	9	8	6	4	-	-	-	-
	10	65	47	32	28	24	17	14	11	9	6	-	-	-	-
8	12	110	75	54	45	39	27	22	18	14	9	7	-	-	
	10	165	110	85	71	61	42	35	29	21	14	10	8	-	
12	12	260	190	136	112	97	68	52	45	34	23	17	14	11	
	10	415	300	215	180	154	108	90	72	54	36	27	21	18	
24	12	660	440	340	284	244	168	140	116	84	56	40	32	26	
	10	1040	760	544	448	388	272	208	180	136	92	68	52	44	
8	12	1668	1200	860	720	616	432	360	288	216	144	108	84	72	
	10	2500	1800	1280	1080	936	648	512	384	288	192	144	108	96	

EMERGENCY LIGHTING DEVICE SCHEDULE				
Type	Description	Manufacturer	VOLTAGE	
E26	WATER-PROOF COMPACT REMOTE UNIT WITH DOUBLE HEAD LAMPS: MR16 LED LAMP, 12V, 6W, 540 LUMEN, 25 DEGREE BEAM ANGLE, FACTORY WHITE FINISH	STANPRO "M" SERIES: CAT# M1-1V6 LA WH OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V	
EMB-1	12V EMERGENCY LIGHTING BATTERY UNIT C/W AUTO TEST, TWO REMOTE HEADS	12V EMERGENCY LIGHTING BATTERY UNIT C/W AUTO TEST, FACTORY WHITE FINISH, UNIVERSAL 120/24VAC INPUT, AND SIX-ZONE DELTA VOLTAGE SENSING RELAY OPTION. TWO LAMPS: MR16 LED LAMP, 12V, 6W, 540 LUMEN, 25 DEGREE BEAM ANGLE. -LUMACELL R012S-(360)2 -L10-AT-VSR STANPRO SLC SERIES -EMERGLITE ESL SERIES	120 V	
EMB-2	LIGHTING BATTERY UNIT C/W AUTO TEST, TWO REMOTE HEADS	SAME AS EMB-1	120 V	
Wall Mounted - Down X1	SELF-POWERED SLIM EDGE-LIT LED ILLUMINATED PICTOGRAM EXIT SIGN - SINGLE FACE C/W WHITE FINISH RECESSED HOUSING AND AUTOMATIC TEST SELF-DIAGNOSTIC	STANPRO "RMTE" SERIES: CAT# RMTE-1-UM-WH/IB/AT OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V	
Grand total: 26				

LIGHTING CONTROL MATRIX 1																												
ROOM NAME	ROOM NUMBER	CONTROLS PHILOSOPHY		LOCAL CONTROL (ASHRAE 90.1-2013 9.4.1.1a)		OCCUPANCY SENSOR		TIME SCHEDULE		DAYLIGHT SENSOR		OTHER		REMARKS														
		CONTROLS INTEGRATED INTO LUMINAIRES	STANDALONE CONTROL DEVICES	MANUAL (ON/OFF) ONE ZONE ONLY FOR SPACE	MANUAL (ON/OFF) 2 ZONED SWITCHING	MANUAL DIMMING CONTROL	KEY SWITCH (KS)	SCENE CONTROL (SC) OR GRAPHIC TOUCHSCREEN	VACANCY MODE (MANUAL ON) (ASHRAE 90.1-2013 9.4.1.1b)	OCCUPANCY MODE (AUTO ON) (FULL)	OCCUPANCY MODE (AUTO ON) (PARTIAL)	AUTOMATIC PARTIAL OFF SENSOR TIME OUT (MINUTES) (ASHRAE 90.1-2013 9.4.1.1g)	AUTOMATIC PARTIAL OFF LUMINAIRE DIMMING LEVEL		FULL OFF SENSOR TIME OUT PERIOD (MINUTES) (ASHRAE 90.1-2013 9.4.1.1h)	SCHEDULE ON TIME	SCHEDULE OFF TIME	SCHEDULE OVERRIDE SWITCH	SWITCHING (ON/OFF)	DIMMING	TARGET LIGHTING LEVELS (Avg. Lc)	EXTERIOR LOCATION	PLUG LOAD CONTROL	CONTROLLED EMERGENCY				
VESTIBULE	101		X		X																							
CONFERENCE ROOM	103		X		X																							
OFFICE 4	104		X		X																							
IT ROOM	105		X		X																							
UNIVERSAL WASHROOM	106		X		X																							
LOUNGE	107		X		X																							
KITCHEN	108		X		X																							
GENERAL OFFICE	109		X		X																							
ROADWAY LIGHTING	110	X																										
OFFICE 1	111		X		X																							
OFFICE 2	112		X		X																							
OFFICE 3	113		X		X																							
STORAGE	114		X		X																							
LOCKERS	115		X		X																							
EXTERIOR - PARKING LIGHTING ZONE	116	X																										
EXTERIOR - APRON LIGHTING ZONE	117	X																										
WASHROOMS	118		X		X																							
SHR1	119		X		X																							
SHR2	120		X		X																							
MECHANICAL/ELECTRICAL	122		X		X																							
STORAGE 2	123		X		X																							
VEHICLE BAY	124		X		X																							
STORAGE 3	125		X		X																							
STORAGE 4	126		X		X																							
JANITOR ROOM	127		X		X																							
HANGAR	128		X		X																							

- APRON LIGHTING CONTROL ZONE FUNCTIONAL REQUIREMENTS:
- TURN ON/OFF BASED ON PHOTOCELL HELIPORT OVERRIDE OFF:
 - OFF WHEN HELIPORT LIGHTING CONTROLLER (HLC) AUXILIARY DRY-CONTACT (MAX RATING 240VAC, 8A) CLOSURES (CORRESPONDS TO FATO LIGHTING TURNING ON, BY HLC)
 - AFTER HLC DEFINED TIME LIMIT, DRY-CONTACT WILL OPEN. APRON LIGHTING TO RESUME NORMAL FUNCTION CONTROLLED BY PHOTOCELL
 - MANUAL OVERRIDE ON:
 - APRON LIGHTING CAN BE MANUALLY TURNED ON TO OVERRIDE THE HLC CONTACT AND RESUME OPERATION BASED ON PHOTOCELL



- NOTE:
- THE HLC AND FATO LIGHTS OPERATE INDEPENDENTLY OF THE APRON LIGHTING CONTROL.
 - THE LV MANUAL SWITCHES CAN WILL PROVIDE A MOMENTARY (20 MINUTE INITIAL SETTING, AND OWNER ADJUSTABLE BETWEEN 1MIN AND 60MIN) TO BYPASS OF THE HLC CONTACT.

HELIPAD LIGHTING CONTROLLER - INTERFACE TO APRON LIGHTING CONTROL ZONE

SCALE: N.T.S.

KEYNOTE LEGEND	
Keynote Value	Keynote Text
1.	FLOOR PLANS TAKE PRECEDENCE. COUNT IS PROVIDED FOR INFORMATION ONLY AND DOES NOT DICTATE THE DESIGN REQUIREMENTS.
2.	TO BE DEFINED BY OWNER DURING CONSTRUCTION.

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 SCHEDULES

Drawing No. E-900



YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

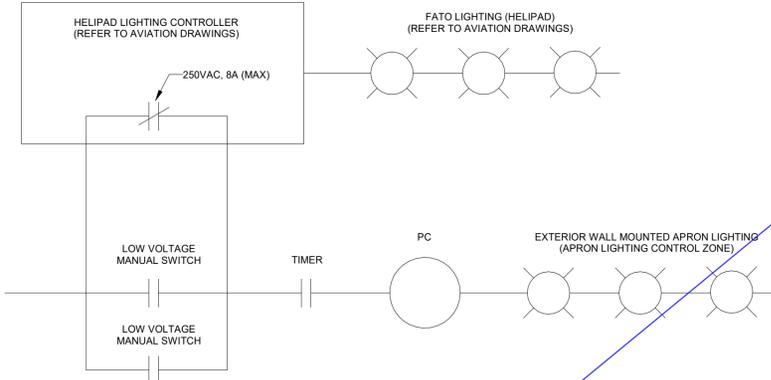
LIGHT FIXTURE SCHEDULE											Count	
TYPE	MANUFACTURER	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	LUMENS	DIMMABLE	CCT	MOUNTING HEIGHT		Count	
D1	LFR-4RD-M-15L35K8WD-DM1	LFR-4RD-T-CL-S	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	12 W	1404	0-10V	3500K	3m	19
D2	LFR-4RD-M-20L35K8-DM1	LFR-4RD-T-SH-WT	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	15 W	1238	0-10V	3500K	3m	3
F2	SDL-3-1ACF-24G-40-35K-MV		PEERLESS-ELECTRIC	2' x 4' LED luminaire for recessed installation in an exposed flat	RECESSED	120 V	32 W	3968	0-10V	3500K	3m	29
F3	SDL-3-1ACF-22G-40-35K-MV		PEERLESS-ELECTRIC	2' x 2' LED luminaire for recessed installation in an exposed flat	RECESSED	120 V	37 W	4070	0-10V	3500K	3m	2
FL1	NOT USED					120 V	22 W					1
L2	LXD140-6LM-4-80-35K-FA-W		PEERLESS-ELECTRIC	LED luminaire for suspended (with aircraft cables)	SUSPEND	120 V	64 W	3225		3500K	2.4m	1
PA	AP4-HB-4-200-35K-A6		PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SURFACE	120 V	165 W	20000	0-10V	3500K	7.7	12
PB	AP4-HB-4-150-35K-A6		PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SURFACE	120 V	119 W	15000	0-10V	3500K	7.2m	15
PC	AP2W-4-42-35K-A2		PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SUSPENDED	120 V	35 W	4200	0-10V	3500K	3m	1
PD	HEM4-35ML-DFA-EU		PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SUSPENDED	120 V	46 W	5425	0-10V	3500K	3m	4
Z1	VPW3-160L-95-3K7-4		BEACON VIPER WALL	Exterior Wall-mounted Low profile LED luminaireN	WALL	120 V	95 W	12595	0-10V	3000K	8m	5
Z2	VPW3-160L-95-3K7-4		BEACON VIPER WALL	Exterior Wall-mounted Low profile LED luminaire	WALL	120 V	95 W	12595	0-10V	3000K	4.1m	7
Z3	LFR-4RD-M-10L30K8XW-DM1	LFR-4RD-T-CL-S	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	8 W	903	0-10V	3000K	2.75m	1
Grand total: 100												

EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP															
LOAD (WATTS)	WIRE SIZE	LENGTH OF WIRE RUN (FEET)													
		13	18	25	30	35	50	60	75	100	150	200	250	300	400
6	12	41	30	21	18	15	11	9	8	6	4	-	-	-	-
	10	65	47	32	28	24	17	14	11	9	6	-	-	-	-
VOLT	8	110	75	54	45	39	27	22	18	14	9	7	-	-	-
	12	165	110	85	71	61	42	35	29	21	14	10	8	-	-
10	10	260	190	136	112	97	68	52	45	34	23	17	14	11	-
	8	415	300	215	180	154	108	90	72	54	36	27	21	18	-
VOLT	12	660	440	340	284	244	168	140	116	84	56	40	32	26	21
	10	1040	760	544	448	388	272	208	180	136	92	68	52	44	34
8	1668	1200	860	720	616	432	360	288	216	144	108	84	72	54	

EMERGENCY LIGHTING DEVICE SCHEDULE			
Type	Description	Manufacturer	VOLTAGE
E26	WATER-PROOF COMPACT REMOTE UNIT WITH DOUBLE HEAD LAMPS: MR16 LED LAMP, 12V, 6W, 540 LUMEN, 25 DEGREE BEAM ANGLE, FACTORY WHITE FINISH	STANPRO "M SERIES" CAT# M1-1V6 LA WH OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V
EMB-1	12V EMERGENCY LIGHTING BATTERY UNIT C/W AUTO TEST, FACTORY WHITE FINISH, UNIVERSAL 120/240VAC INPUT, AND SIX-ZONE DELTA VOLTAGE SENSING RELAY OPTION TWO LAMPS: MR16 LED LAMP, 12V, 6W, 540 LUMEN, 25 DEGREE BEAM ANGLE	STANPRO "M SERIES" CAT# M1-1V6 LA WH OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V
EMB-2	LIGHTING BATTERY UNIT C/W AUTO TEST, TWO REMOTE HEADS	SAME AS EMB-1	120 V
X1	SELF-POWERED SLIM EDGE-LIT LED ILLUMINATED PICTOGRAM EXIT SIGN - SINGLE FACE C/W WHITE FINISH RECESSED HOUSING AND AUTOMATIC TEST SELF-DIAGNOSTIC	STANPRO "RMTE SERIES" CAT# RMTE-1-UM-WH-IB/AT OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V
Grand total: 27			

LIGHTING CONTROL MATRIX 1																					
ROOM NAME	ROOM NUMBER	CONTROLS PHILOSOPHY		LOCAL CONTROL (ASHRAE 90.1-2013 9.4.1.1a)		OCCUPANCY SENSOR		TIME SCHEDULE	DAYLIGHT SENSOR	OTHER		REMARKS									
		CONTROLS INTEGRATED INTO LUMINAIRES	STANDALONE CONTROL DEVICES	MANUAL (ON/OFF) ONE ZONE ONLY FOR SPACE	MANUAL (ON/OFF) 2 ZONED SWITCHING	MANUAL DIMMING CONTROL	KEY SWITCH (KS)			SCENE CONTROL (SC) OR GRAPHIC TOUCHSCREEN	VACANCY MODE (MANUAL ON) (ASHRAE 90.1-2013 9.4.1.1b)		OCCUPANCY MODE (AUTO ON) (FULL)	OCCUPANCY MODE (AUTO ON) (PARTIAL)	AUTOMATIC PARTIAL OFF SENSOR TIME OUT (MINUTES) (ASHRAE 90.1-2013 9.4.1.1g)	AUTOMATIC PARTIAL OFF LUMINAIRE DIMMING LEVEL	FULL OFF SENSOR TIME OUT PERIOD (MINUTES) (ASHRAE 90.1-2013 9.4.1.1h)	SCHEDULE ON TIME	SCHEDULE OFF TIME	SCHEDULE OVERRIDE SWITCH	SWITCHING (ON/OFF)	DIMMING	TARGET LIGHTING LEVELS (Avg. Lc)	EXTERIOR LOCATION	PLUG LOAD CONTROL	CONTROLLED EMERGENCY
VESTIBULE	101	X	X					20													
CONFERENCE ROOM	103	X	X					20				X									
OFFICE 4	104	X	X					20				X									
IT ROOM	105	X	X					20				X									
UNIVERSAL WASHROOM	106	X	X					20				X									
LOUNGE	107	X	X					20				X									
KITCHEN	108	X	X					20				X									
GENERAL OFFICE	109	X	X					20				X									
OFFICE 1	111	X	X					20				X									
OFFICE 2	112	X	X					20				X									
OFFICE 3	113	X	X					20				X									
STORAGE	114	X	X					20				X									
LOCKERS	115	X	X					20				X									
EXTERIOR - PARKING LIGHTING ZONE	116	X	X					20	X	X		X									
EXTERIOR - APRON LIGHTING ZONE	117	X	X					20	X	X		X									
WASHROOMS	118	X	X					20				X									
SHR1	119	X	X					20				X									
SHR2	120	X	X					20				X									
MECHANICAL/ELECTRICAL	122	X	X					20				X									
STORAGE 2	123	X	X					20				X									
VEHICLE BAY	124	X	X					20				X									
STORAGE 3	125	X	X					20				X									
STORAGE 4	126	X	X					20				X									
JANITOR ROOM	127	X	X					20				X									
HANGAR	128	X	X				50%	20			X	30									

APRON LIGHTING CONTROL ZONE FUNCTIONAL REQUIREMENTS:
 1. TURN ON/OFF BASED ON PHOTOCELL
 2. HELIPORT OVERRIDE OFF:
 A. OFF WHEN HELIPORT LIGHTING CONTROLLER (HLC) AUXILIARY DRY-CONTACT (MAX RATING 240VAC, 8A) CLOSURES (CORRESPONDS TO FATO LIGHTING TURNING ON, BY HLC)
 B. AFTER HLC DEFINED TIME LIMIT, DRY-CONTACT WILL OPEN. APRON LIGHTING TO RESUME NORMAL FUNCTION CONTROLLED BY PHOTOCELL
 3. MANUAL OVERRIDE ON:
 A. APRON LIGHTING CAN BE MANUALLY TURNED ON TO OVERRIDE THE HLC CONTACT AND RESUME OPERATION BASED ON PHOTOCELL



- NOTE:
- THE HLC AND FATO LIGHTS OPERATE INDEPENDENTLY OF THE APRON LIGHTING CONTROL.
 - THE LV MANUAL SWITCHES CAN WILL PROVIDE A MOMENTARY (20 MINUTE INITIAL SETTING, AND OWNER ADJUSTABLE BETWEEN 1MIN AND 60MIN) TO BYPASS OF THE HLC CONTACT.

HELIPAD LIGHTING CONTROLLER - INTERFACE TO APRON LIGHTING CONTROL ZONE

SCALE: N.T.S.

KEYNOTE LEGEND	
Keynote Value	Keynote Text
1.	FLOOR PLANS TAKE PRECEDENCE. COUNT IS PROVIDED FOR INFORMATION ONLY AND DOES NOT DICTATE THE DESIGN REQUIREMENTS.
2.	TO BE DEFINED BY OWNER DURING CONSTRUCTION.

NO.	ISSUED	DATE
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 TENDER	2024-09-09
2	ISSUED FOR SITE PLAN APPROVAL	2024-08-16
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
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005

Sheet
Title:

ELECTRICAL SCHEDULES

Drawing
No:
E-900



YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan

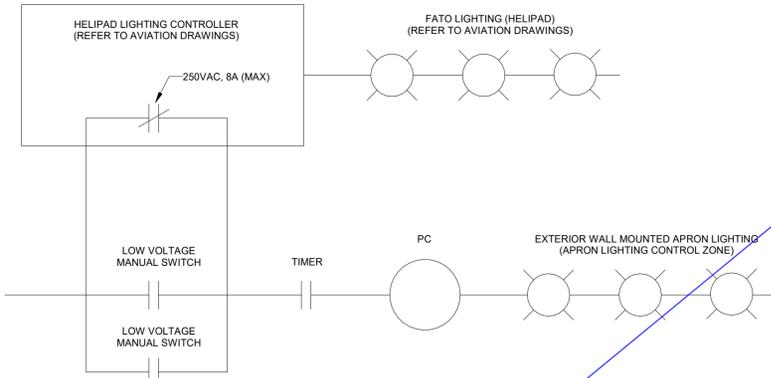
LIGHT FIXTURE SCHEDULE											Count	
TYPE	MANUFACTURER	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	LUMENS	DIMMABLE	CCT	MOUNTING HEIGHT		Count	
D1	LFR-4RD-M-15L35K8WD-DM1	LFR-4RD-T-CL-S	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	12 W	1404	0-10V	3500K	3m	19
D2	LFR-4RD-M-20L35K8-DM1	LFR-4RD-T-SH-WT	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	15 W	1238	0-10V	3500K	3m	3
F2	SDL-3-1ACF-24G-40-35K-MV		PEERLESS-ELECTRIC	2' x 4' LED luminaire for recessed installation in an exposed flat	RECESSED	120 V	32 W	3968	0-10V	3500K	3m	29
F3	SDL-3-1ACF-22G-40-35K-MV		PEERLESS-ELECTRIC	2' x 2' LED luminaire for recessed installation in an exposed flat	RECESSED	120 V	37 W	4070	0-10V	3500K	3m	2
FL1	NOT USED					120 V	22 W					1
L2	LXD140-6LM-4-80-35K-FA-W		PEERLESS-ELECTRIC	LED luminaire for suspended (with aircraft cables)	SUSPEND	120 V	64 W	3225		3500K	2.4m	1
PA	AP4-HB-4-200-35K-A6		PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SURFACE	120 V	165 W	20000	0-10V	3500K	7.7	12
PB	AP4-HB-4-150-35K-A6		PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SURFACE	120 V	119 W	15000	0-10V	3500K	7.2m	15
PC	AP2W-4-42-35K-A2		PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SUSPENDED	120 V	35 W	4200	0-10V	3500K	3m	1
PD	HEM4-35ML-DFA-EU		PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SUSPENDED	120 V	46 W	5425	0-10V	3500K	3m	4
Z1	VPW3-160L-95-3K7-4		BEACON VIPER WALL	Exterior Wall-mounted Low profile LED luminaireN	WALL	120 V	95 W	12595	0-10V	3000K	8m	5
Z2	VPW3-160L-95-3K7-4		BEACON VIPER WALL	Exterior Wall-mounted Low profile LED luminaire	WALL	120 V	95 W	12595	0-10V	3000K	4.1m	7
Z3	LFR-4RD-M-10L30K8XW-DM1	LFR-4RD-T-CL-S	PRESCOLITE	LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	8 W	903	0-10V	3000K	2.75m	1
Grand total: 100												

EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP															
LOAD (WATTS)	WIRE SIZE	LENGTH OF WIRE RUN (FEET)													
		13	18	25	30	35	50	60	75	100	150	200	250	300	400
6	12	41	30	21	18	15	11	9	8	6	4	-	-	-	-
	10	65	47	32	28	24	17	14	11	9	6	-	-	-	-
VOLT	8	110	75	54	45	39	27	22	18	14	9	7	-	-	-
	12	165	110	85	71	61	42	35	29	21	14	10	8	-	-
10	10	260	190	136	112	97	68	52	45	34	23	17	14	11	-
	8	415	300	215	180	154	108	90	72	54	36	27	21	18	-
VOLT	12	660	440	340	284	244	168	140	116	84	56	40	32	26	21
	10	1040	760	544	448	388	272	208	180	136	92	68	52	44	34
8	1668	1200	860	720	616	432	360	288	216	144	108	84	72	54	

EMERGENCY LIGHTING DEVICE SCHEDULE			
Type	Description	Manufacturer	VOLTAGE
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EMB-1	12V EMERGENCY LIGHTING BATTERY UNIT C/W AUTO TEST, FACTORY WHITE FINISH, UNIVERSAL 120/247VAC INPUT, AND SIX-ZONE DELTA VOLTAGE SENSING RELAY OPTION TWO LAMPS: MR16 LED LAMP, 12V, 6W, 540 LUMEN, 25 DEGREE BEAM ANGLE	STANPRO "M SERIES" CAT# M1-1V6 LA WH OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V
EMB-2	LIGHTING BATTERY UNIT C/W AUTO TEST, TWO REMOTE HEADS	SAME AS EMB-1	120 V
X1	SELF-POWERED SLIM EDGE-LIT LED ILLUMINATED PICTOGRAM EXIT SIGN - SINGLE FACE C/W WHITE FINISH RECESSED HOUSING AND AUTOMATIC TEST SELF-DIAGNOSTIC	STANPRO "RMTE SERIES" CAT# RMTE-1UM-WH-IBAT OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V
Grand total: 27			

LIGHTING CONTROL MATRIX 1																					
ROOM NAME	ROOM NUMBER	CONTROLS PHILOSOPHY		LOCAL CONTROL (ASHRAE 90.1-2013 9.4.1.1a)		OCCUPANCY SENSOR		TIME SCHEDULE	DAYLIGHT SENSOR	OTHER		REMARKS									
		CONTROLS INTEGRATED INTO LUMINAIRES	STANDALONE CONTROL DEVICES	MANUAL (ON/OFF) ONE ZONE ONLY FOR SPACE	MANUAL (ON/OFF) 2 ZONED SWITCHING	MANUAL DIMMING CONTROL	KEY SWITCH (KS)			SCENE CONTROL (SC) OR GRAPHIC TOUCHSCREEN	VACANCY MODE (MANUAL ON) (ASHRAE 90.1-2013 9.4.1.1b)		OCCUPANCY MODE (AUTO ON) (FULL)	OCCUPANCY MODE (AUTO ON) (PARTIAL)	AUTOMATIC PARTIAL OFF SENSOR TIME OUT (MINUTES) (ASHRAE 90.1-2013 9.4.1.1g)	AUTOMATIC PARTIAL OFF LUMINAIRE DIMMING LEVEL	FULL OFF SENSOR TIME OUT PERIOD (MINUTES) (ASHRAE 90.1-2013 9.4.1.1h)	SCHEDULE ON TIME	SCHEDULE OFF TIME	SCHEDULE OVERRIDE SWITCH	SWITCHING (ON/OFF)
VESTIBULE	101	X	X					20													
CONFERENCE ROOM	103	X	X					20				X									
OFFICE 4	104	X	X					20				X									
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UNIVERSAL WASHROOM	106	X	X					20				X									
LOUNGE	107	X	X					20				X									
KITCHEN	108	X	X					20				X									
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OFFICE 3	113	X	X					20				X									
STORAGE	114	X	X					20				X									
LOCKERS	115	X	X					20				X									
EXTERIOR - PARKING LIGHTING ZONE	116	X	X					20	X	X		X									
EXTERIOR - APRON LIGHTING ZONE	117	X	X					20	X	X		X									
WASHROOMS	118	X	X					20				X									
SHR1	119	X	X					20				X									
SHR2	120	X	X					20				X									
MECHANICAL/ELECTRICAL	122	X	X					20				X									
STORAGE 2	123	X	X					20				X									
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STORAGE 3	125	X	X					20				X									
STORAGE 4	126	X	X					20				X									
JANITOR ROOM	127	X	X					20				X									
HANGAR	128	X	X				50%	20			X	30									

APRON LIGHTING CONTROL ZONE FUNCTIONAL REQUIREMENTS:
 1. TURN ON/OFF BASED ON PHOTOCELL
 2. HELIPORT OVERRIDE OFF:
 A. OFF WHEN HELIPORT LIGHTING CONTROLLER (HLC) AUXILIARY DRY-CONTACT (MAX RATING 240VAC, 8A) CLOSURES (CORRESPONDS TO FATO LIGHTING TURNING ON, BY HLC)
 B. AFTER HLC DEFINED TIME LIMIT, DRY-CONTACT WILL OPEN. APRON LIGHTING TO RESUME NORMAL FUNCTION CONTROLLED BY PHOTOCELL
 3. MANUAL OVERRIDE ON:
 A. APRON LIGHTING CAN BE MANUALLY TURNED ON TO OVERRIDE THE HLC CONTACT AND RESUME OPERATION BASED ON PHOTOCELL



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 - THE LV MANUAL SWITCHES CAN WILL PROVIDE A MOMENTARY (20 MINUTE INITIAL SETTING, AND OWNER ADJUSTABLE BETWEEN 1MIN AND 60MIN) TO BYPASS OF THE HLC CONTACT.

HELIPAD LIGHTING CONTROLLER - INTERFACE TO APRON LIGHTING CONTROL ZONE

SCALE: N.T.S.

KEYNOTE LEGEND	
Keynote Value	Keynote Text
1.	FLOOR PLANS TAKE PRECEDENCE. COUNT IS PROVIDED FOR INFORMATION ONLY AND DOES NOT DICTATE THE DESIGN REQUIREMENTS.
2.	TO BE DEFINED BY OWNER DURING CONSTRUCTION.

NO.	ISSUED	DATE
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 TENDER	2024-09-09
2	ISSUED FOR SITE PLAN APPROVAL	2024-08-16
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
 Checked by: AO
 Original Issue Date: 2024-07-31
 Project No: TT-24-005

Sheet Title:

ELECTRICAL SCHEDULES

Drawing No: E-900



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

YORK REGIONAL POLICE HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
5	ISSUED FOR ADDENDUM 6	2024-09-30
4	ISSUED FOR ADDENDUM 3	2024-09-23
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

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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LIGHT FIXTURE SCHEDULE

	TYPE	MANUFACTURER	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	LUMENS	DIMMABLE	CCT	MOUNTING HEIGHT	Count
D1	LFR-4RD-M-15L35K8WD-DM1	LFR-4RD-T-CL-S	PRESCOLITE LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	12 W	1404	0-10V	3500K	<varies>	19
D2	LFR-4RD-M-20L35K8-DM1	LFR-4RD-T-SH-WT	PRESCOLITE LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	15 W	1238	0-10V	3500K	<varies>	3
F2	SDL-3-1ACF-24G-40-35K-MV	PEERLESS-ELECTRIC	2' x 4' LED luminaire for recessed installation in an exposed flat	RECESSED	120 V	32 W	3968	0-10V	3500K	<varies>	25
F3	SDL-3-1ACF-22G-40-35K-MV	PEERLESS-ELECTRIC	2' x 2' LED luminaire for recessed installation in an exposed flat	RECESSED	120 V	37 W	4070	0-10V	3500K	3m	2
FL1	NOT USED				120 V	22 W	Modify name as required				1
L2	LXD1-40-6LM-4-80-35K-FA-W	PEERLESS-ELECTRIC	LED luminaire for suspended (with aircraft cables)	SUSPEND	120 V	64 W	3225		3500K	2.4m	1
PA	AP4-HB-4-200-35K-A6	PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SURFACE	120 V	165 W	20000	0-10V	3500K	<varies>	12
PB	AP4-HB-4-150-35K-A6	PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SURFACE	120 V	119 W	15000	0-10V	3500K	1.2m	15
PC	AP2W-4-42-35K-A2	PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SUSPENDED	120 V	35 W	4200	0-10V	3500K	3m	1
PD	HEM4-35ML-DFA-EU	PEERLESS-ELECTRIC	LED luminaire for surface mounting with brackets	SUSPENDED	120 V	46 W	5425	0-10V	3500K	3m	4
Z1	VPW3-160L-95-3K7-4	BEACON VIPER WALL	Exterior Wall-mounted Low profile LED luminaireN	WALL	120 V	95 W	12595	0-10V	3000K	8m	5
Z2	VPW3-160L-95-3K7-4	BEACON VIPER WALL	Exterior Wall-mounted Low profile LED luminaire	WALL	120 V	95 W	12595	0-10V	3000K	4.1m	7
Z3	LFR-4RD-M-10L30K8XW-DM1	LFR-4RD-T-CL-S	PRESCOLITE LITEFRAME 4" ROUND DOWNLIGHT	RECESSED	120 V	8 W	903	0-10V	3500K	2.75m	1
Grand total: 100											

EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP

LOAD (WATTS)	WIRE SIZE	LENGTH OF WIRE RUN (FEET)															
		13	18	25	30	35	50	60	75	100	150	200	250	300	400		
6	12	41	30	21	18	15	11	9	8	6	4	-	-	-	-		
	10	65	47	32	28	24	17	14	11	9	6	-	-	-	-		
8	12	110	75	54	45	39	27	22	18	14	9	7	-	-	-		
	10	165	110	85	71	61	42	35	29	21	14	10	8	-	-		
12	10	260	190	136	112	97	68	52	45	34	23	17	14	11	-		
	8	415	300	215	180	154	108	90	72	54	36	27	21	18	-		
24	12	660	440	340	284	244	168	140	116	84	56	40	32	26	21		
	10	1040	760	544	448	388	272	208	180	136	92	68	52	44	34		
8	12	1668	1200	860	720	616	432	360	288	216	144	108	84	72	54		
	10																

EMERGENCY LIGHTING DEVICE SCHEDULE

Type	Description	Manufacturer	VOLTAGE
E26	WATER-PROOF COMPACT REMOTE UNIT WITH DOUBLE HEAD LAMPS: MR16 LED LAMP, 12V, 6W, 540 LUMEN, 25 DEGREE BEAM ANGLE, FACTORY WHITE FINISH	STANPRO "RM" SERIES: CAT# M1-1WV6 LA WH OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V
EMB-1	12V EMERGENCY LIGHTING BATTERY UNIT C/W AUTO TEST, FACTORY WHITE FINISH, UNIVERSAL 120/247VAC INPUT, AND SIX-ZONE DELTA VOLTAGE SENSING RELAY OPTION TWO LAMPS: MR16 LED LAMP, 12V, 6W, 540 LUMEN, 25 DEGREE BEAM ANGLE	STANPRO "RM" SERIES: CAT# RMTE-1-UM-WH-IBAT OR APPROVED EQUAL (BEGHELLI, EMERGH-LITE, LUXNET, AMLITE).	120 V
EMB-2	LIGHTING BATTERY UNIT C/W AUTO TEST, TWO REMOTE HEADS	SAME AS EMB-1	120 V
X1	SELF-POWERED SLIM EDGE LIT LED ILLUMINATED PICTOGRAM EXIT SIGN - SINGLE FACE C/W WHITE FINISH RECESSED HOUSING AND AUTOMATIC TEST SELF-DIAGNOSTIC		120 V
Grand total: 27			

LIGHTING CONTROL MATRIX 1

ROOM NAME	ROOM NUMBER	CONTROLS PHILOSOPHY		LOCAL CONTROL (ASHRAE 90.1-2013 9.4.1.1a)		OCCUPANCY SENSOR		TIME SCHEDULE	DAYLIGHT SENSOR	OTHER	REMARKS	
		CONTROLS INTEGRATED INTO LUMINAIRES	STANDALONE CONTROL DEVICES	MANUAL (ON/OFF) ONE ZONE ONLY FOR SPACE	MANUAL (ON/OFF) a, b, ZONED SWITCHING	MANUAL DIMMING CONTROL	KEY SWITCH (KS)					SCENE CONTROL (SC) OR GRAPHIC TOUCHSCREEN
VESTIBULE	101	X										
CONFERENCE ROOM	103	X										
OFFICE 4	104	X										
IT ROOM	105	X										
UNIVERSAL WASHROOM	106	X										
LOUNGE	107	X										
KITCHEN	108	X										
GENERAL OFFICE	109	X										
OFFICE 1	111	X										
OFFICE 2	112	X										
OFFICE 3	113	X										
STORAGE	114	X										
LOCKERS	115	X										
EXTERIOR - PARKING LIGHTING ZONE	116	X						X	X	X		
EXTERIOR - APRON LIGHTING ZONE	117	X						X	X	X		
WASHROOMS	118	X										
SHR1	119	X										
SHR2	120	X										
MECHANICAL/ELECTRICAL	122	X										
STORAGE 2	123	X										
VEHICLE BAY	124	X										
STORAGE 3	125	X										
STORAGE 4	126	X										
JANITOR ROOM	127	X										
HANGAR	128	X						50%	20	X	30	

APRON LIGHTING CONTROL ZONE FUNCTIONAL REQUIREMENTS:

- TURN ON/OFF BASED ON PHOTOCELL HELIPORT OVERRIDE OFF:
 - OFF WHEN HELIPORT LIGHTING CONTROLLER (HLC) AUXILIARY DRY-CONTACT (MAX RATING 240VAC, 8A) CLOSURES (CORRESPONDS TO FATO LIGHTING TURNING ON, BY HLC)
 - AFTER HLC DEFINED TIME LIMIT, DRY-CONTACT WILL OPEN. APRON LIGHTING TO RESUME NORMAL FUNCTION CONTROLLED BY PHOTOCELL
- MANUAL OVERRIDE ON:
 - APRON LIGHTING CAN BE MANUALLY TURNED ON TO OVERRIDE THE HLC CONTACT AND RESUME OPERATION BASED ON PHOTOCELL

KEYNOTE LEGEND

Keynote Value	Keynote Text
1.	FLOOR PLANS TAKE PRECEDENCE. COUNT IS PROVIDED FOR INFORMATION ONLY AND DOES NOT DICTATE THE DESIGN REQUIREMENTS.
2.	TO BE DEFINED BY OWNER DURING CONSTRUCTION.



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Scale:

Sheet
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ELECTRICAL SCHEDULES

Drawing
No:
E-901

Branch Panel: DP-01

Location: Room 129
Supply From:
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 347/600V
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 150A

Notes:

CKT	Circuit Description	QTY	Trip	Poles	A	B	C	A	B	C	Poles	Trip	QTY	Circuit Description	CKT
1															2
3															4
5															6
7															8
9															10
11															12
13															14
15															16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
					Total Load:	0 VA		0 VA		0 VA					
					Total Amps:	0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A

Notes:

Branch Panel: DP-02

Location: Room 129
Supply From:
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	QTY	Trip	Poles	A	B	C	A	B	C	Poles	Trip	QTY	Circuit Description	CKT
1	LIGHTING	26	15 A	1	1462 VA			200 VA			2	15 A	1	FCU-10	2
3	LIGHTING	26	15 A	1		2266 VA			200 VA		1	20 A	1	B2	4
5	LIGHTING	38	15 A	1			1168 VA	1300 VA		1600 VA	1	15 A	3	EF-1, EF-2	6
7	EF-4	1	15 A	1	1200 VA						1	15 A	1	B2	8
9	EF-3	1	15 A	1	900 VA				600 VA		1	15 A	3	UH-1, UH-2 & UH-3	10
11	B1	1	20 A	1			1300 VA			1500 VA	1	15 A	3	AUTOMATIC DOOR OPERATORS (ADO)	12
13	R: GENERAL OFFICE	3	20 A	1	610 VA			400 VA			2	15 A	3	FCU-4, FCU-5 AND FCU-6	14
15	FCU-1, FCU-2 & FCU-3	3	15 A	2		400 VA	400 VA		400 VA	300 VA	2	15 A	3	FCU-7, FCU-8 & FCU-9	16
17	R: VEHICLE BAY	2	20 A	1	360 VA			300 VA			2	15 A	3		18
19	R: MECHANICAL ROOM	2	20 A	1		360 VA			180 VA		1	20 A	1	R: FRIDGE	20
21	R: WASHROOM	2	20 A	1			360 VA			180 VA	1	20 A	1	R: KITCHEN	22
23	R: LOUNGE AND TV	2	20 A	1	360 VA			360 VA			1	20 A	2	R: MECHANICS OFFICE	24
25	R: QUARTERMASTER	1	20 A	1		180 VA			360 VA		1	20 A	1	R: IT ROOM	26
27	R: GENERAL OFFICE	3	20 A	1			750 VA			360 VA	1	20 A	2	R: IT ROOM	28
29	R: CONFERENCE ROOM	2	20 A	1	360 VA			720 VA			1	20 A	4	R: OFFICE 2	30
31	R: CONFERENCE ROOM	1	20 A	1		250 VA									32
33	R: OFFICE 1	3	20 A	1			540 VA								34
35															36
37															38
39															40
41															42
					Total Load:	7632 VA		6045 VA		8457 VA					
					Total Amps:	66 A		50 A		73 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	11180 VA	100.00%	11180 VA	Total Conn. Load: 22114 VA
Lighting - Dwelling Unit	1970 VA	100.00%	1970 VA	Total Est. Demand: 22114 VA
Receptacle	4860 VA	100.00%	4860 VA	Total Conn.: 61 A
				Total Est. Demand: 61 A

Notes: