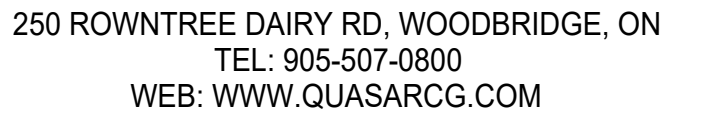


Drawing
No. **E-001**



88 BALES DRIVE EAST
(FORMERLY 350 GARFIELD
WRIGHT BLVD)

Issues

Do not scale drawings

Drawing
No. **E-100**

1 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.





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.

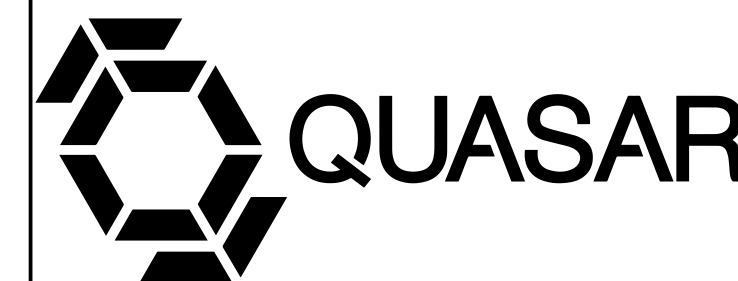
Section 4

SCALE: 1 : 100



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HELICOPTER HANGAR

88 BALES DRIVE EAST
(FORMERLY 350 GARFIELD
WRIGHT BLVD)

Key Plan

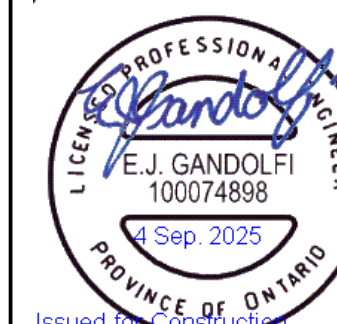
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Issues

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Do not scale drawings

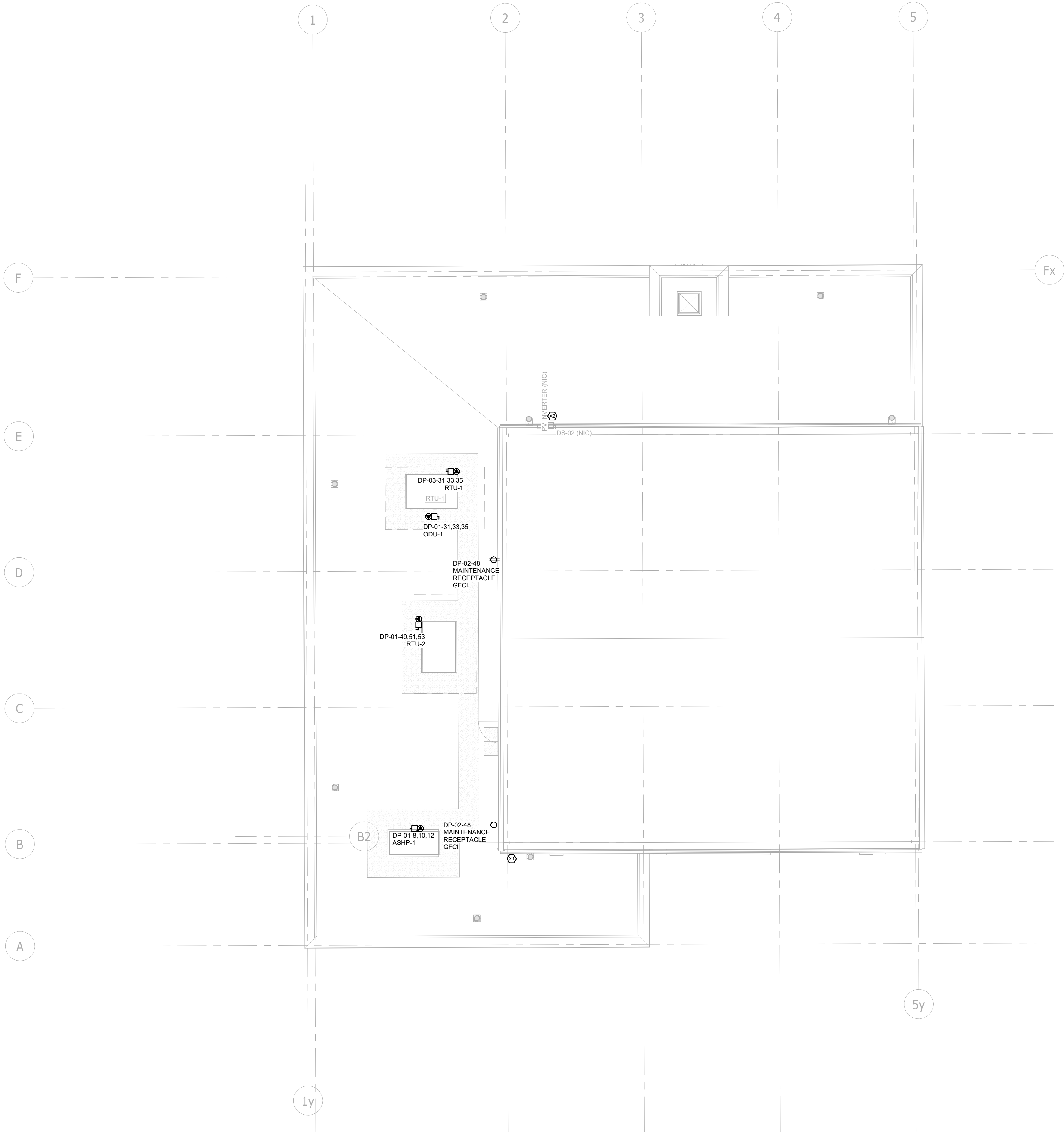
Drawn by: ZK
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: 1 : 100



Sheet
Title:

POWER AND SYSTEMS
NEW WORK - GROUND
FLOOR

Drawing
No. **E-300**



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

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

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WRIGHT BLVD)

Key
Plan



TRUE NORTH



PROJECT NORTH

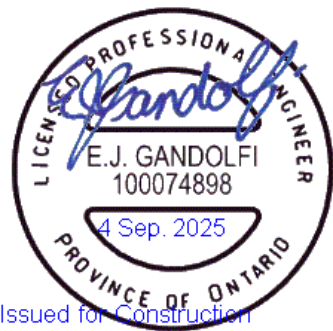
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14	ISSUED FOR PRE-IFC	2025-09-05
13	ISSUED FOR PROGRESS	2025-08-20
12	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
11	ISSUED FOR PROGRESS	2025-05-02
10	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
9	ISSUED FOR ADDENDUM 15	2024-12-04
8	ISSUED FOR ADDENDUM 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

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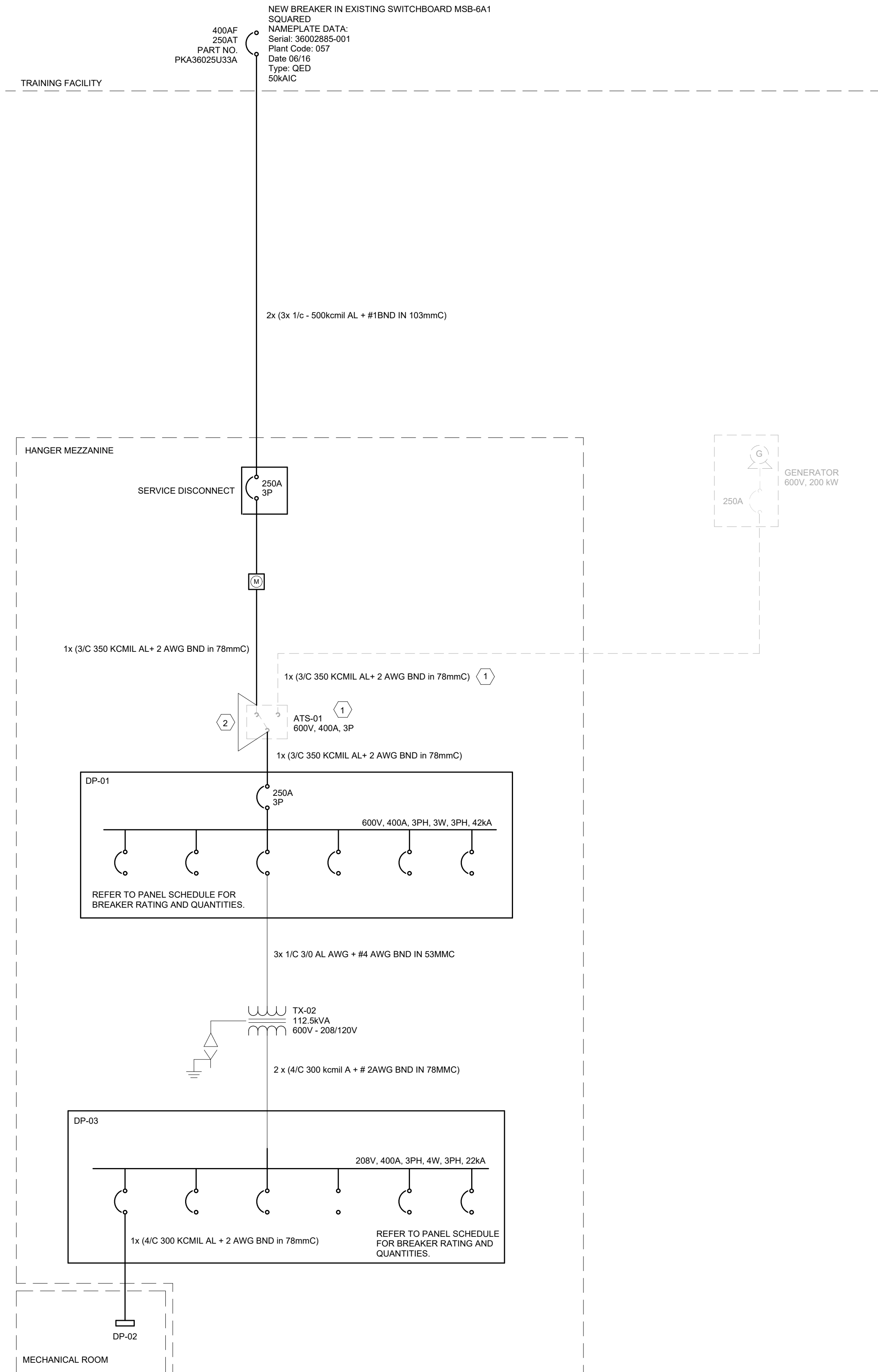
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Scale: 1 : 100



Sheet
Title:
POWER AND SYSTEMS
NEW WORK - ROOF
PLAN

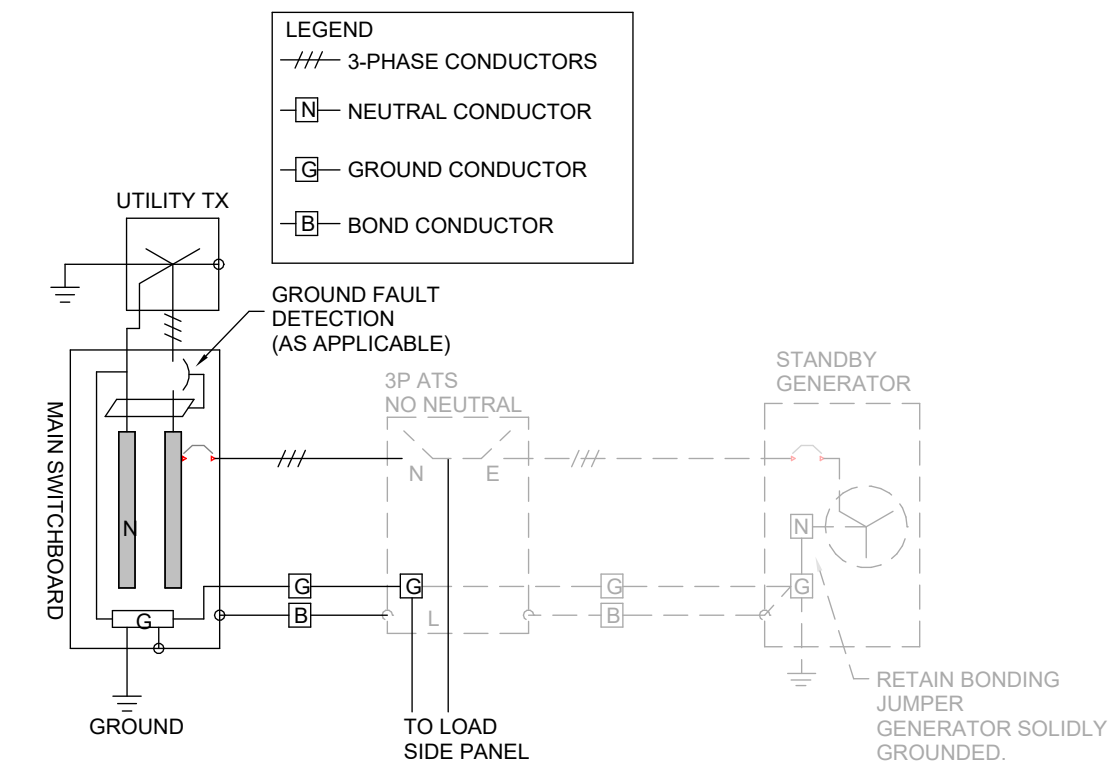
Drawing
No:
E-301

9/4/2025 3:36:30 PM
Autodesk Docs://2402 - YRP Helicopter Hangar/TT-24-005-YRP-QCG ME Model_R24.rvt



SHEET KEY NOTES -

1. INTENTIONALLY DELETED.
2. CONDUCTORS TO BE ROUTED VIA LOCATION OF FUTURE ATS. ALLOW FOR 3M OF EXTRA CABLE LENGTH FOR FUTURE WORKING OF CABLE.



- NOTES:
1. BOND CONDUCTOR TO BE SIZED IN ACCORDANCE WITH OESC TABLE 16.
 2. GROUND SHALL BE EXPOSED FOR FUTURE CONNECTION AT LOCATION OF FUTURE ATS.

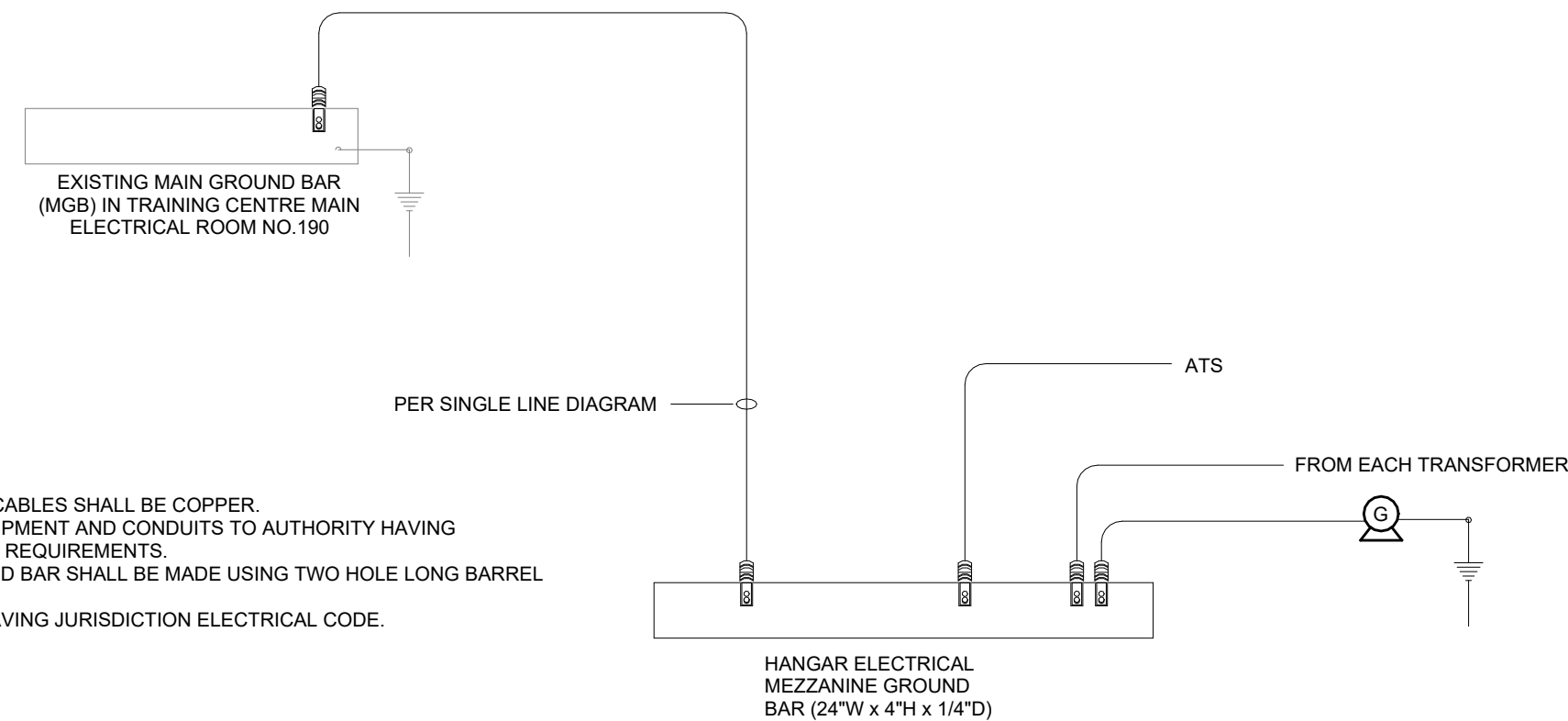
TRANSFER SWITCH GROUNDING SCHEMATIC
SCALE: 1 : 50

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

- 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.



Grounding Riser
SCALE:N.T.S.

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Key
Plan



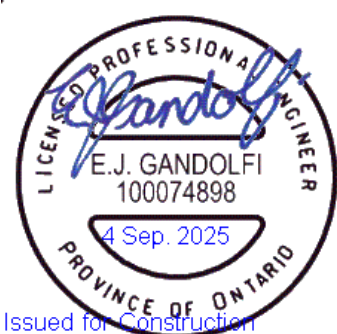
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Issues

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



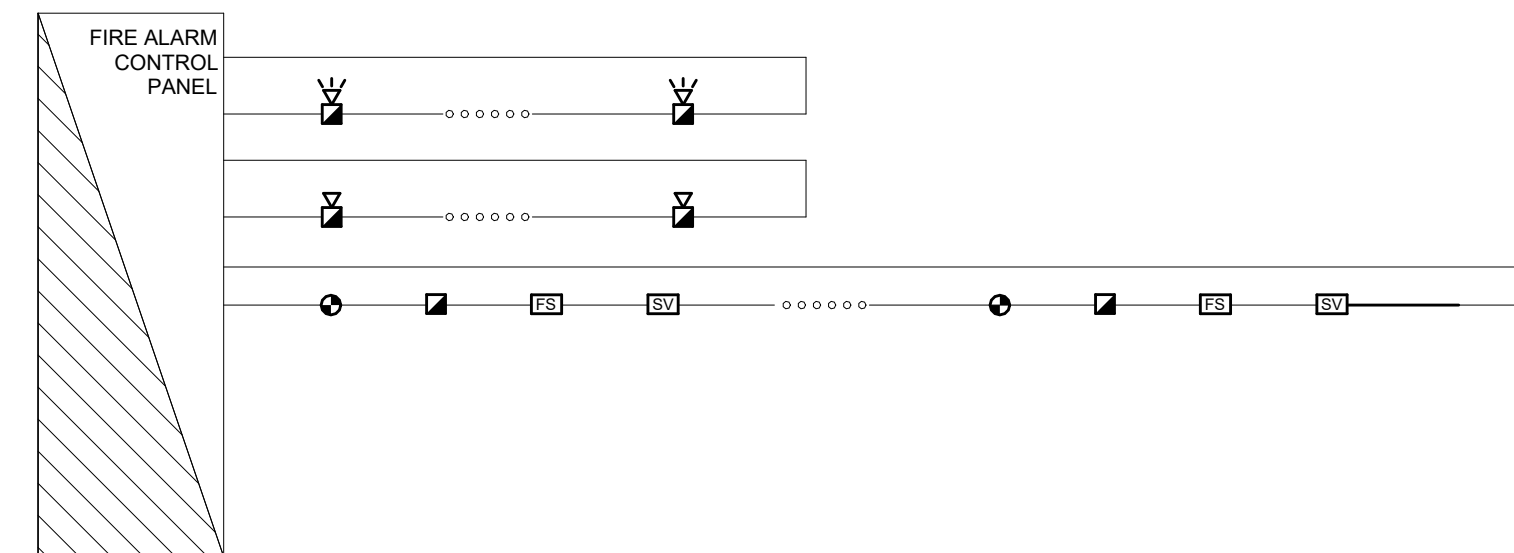
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Title:

ELECTRICAL SINGLE
LINE DIAGRAM

Drawing
No.
E-700

GENERAL NOTES

1. FOR EXACT QUANTITY AND LOCATION OF F/A DEVICES & ZONES, REFER TO FLOOR PLANS DRAWINGS AND/OR SCHEDULES FOR DETAILS. FLOOR PLANS TO GOVERN.
2. PROVIDE 1h FIRE RATED CONDUCTORS FOR MAIN FIRE ALARM CONTROL AND POWER SUPPLY. WHERE SPECIFIED, WHERE BRANCH/ HORIZONTAL FEEDERS FOR A ZONE PASS THROUGH ANOTHER ZONE, MAINTAIN FIRE RATING SPECIFIED.
3. 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.
4. NO FORTEN 120V LIGHT WIRING WILL BE ALLOWED IN THE FIRE ALARM PANEL. 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, ETC.) OR HOLDERS, ETC.) THEY ARE TO BE CONNECTED THROUGH DOUBLE VOLTAGE RELAYS. THE FIRE ALARM SIDE TO BE 24 VOLT.
6. AT BUILDING EXPANSION JOINTS PROVIDE CONDUITS ON BOTH SIDES OF THE JOINT AND CONNECT THEM WITH FLEXIBLE METAL CONDUITS AND GROUND WIRE.
7. THE LOCATIONS OF DEVICES SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT LOCATIONS ARE TO BE DETERMINED ON SITE DURING CONSTRUCTION.
10. 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.



FIRE ALARM RISER

SCALE:N.T.S.



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Key Plan



TRUE NORTH



PROJECT NORTH

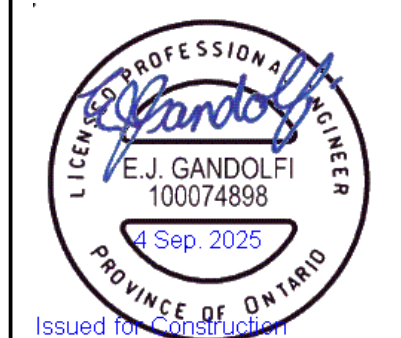
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NO.	ISSUED	DATE

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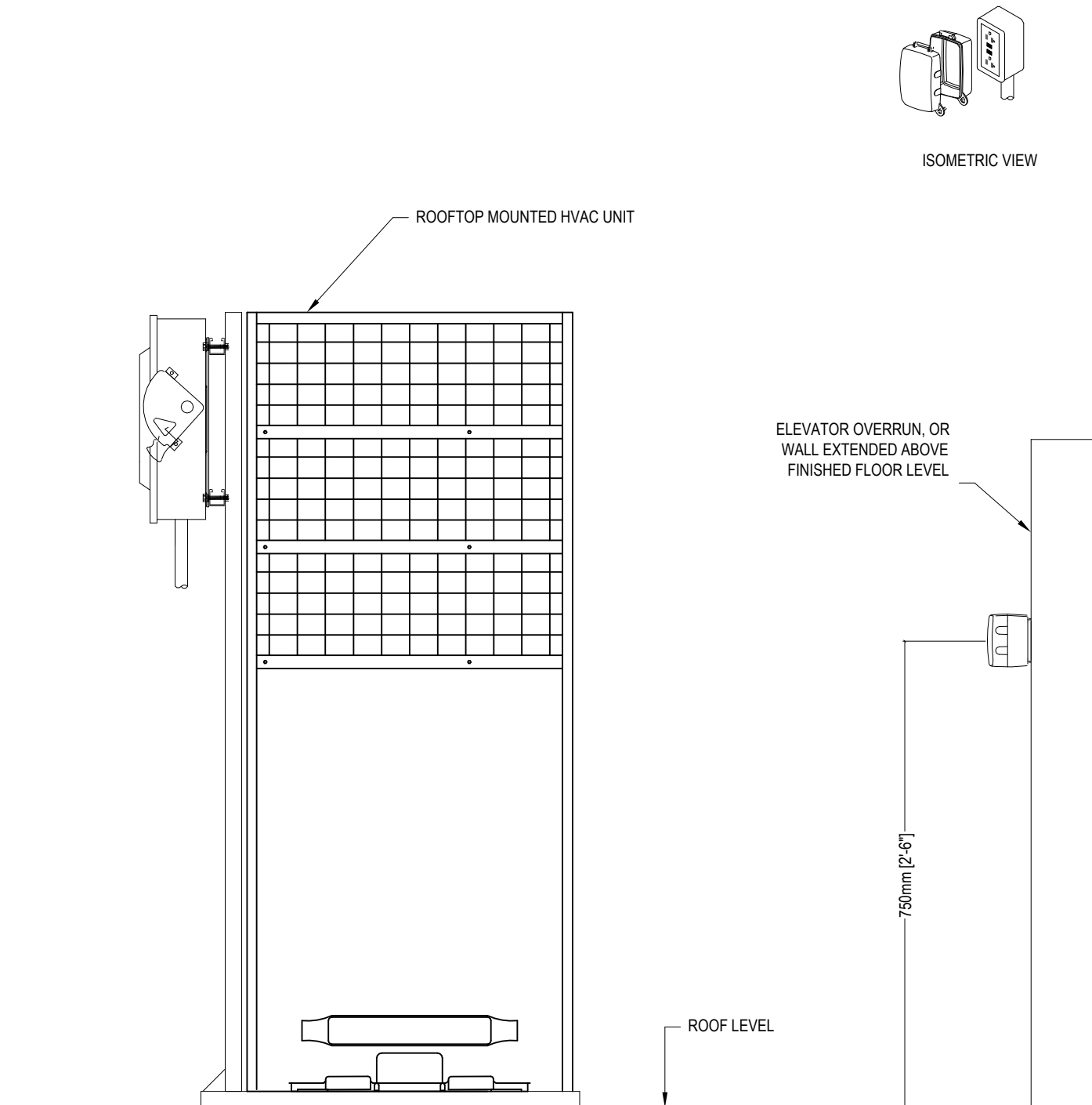
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Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005

Sheet
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FIRE ALARM RISER

Drawing
No. **E-701**

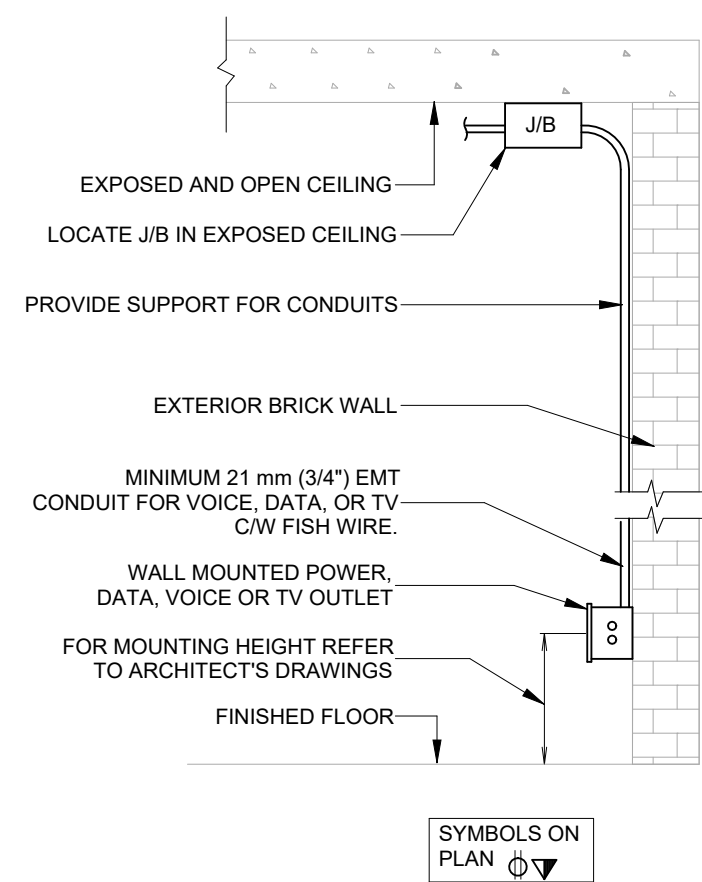
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- NOTES:
1. PROVIDE WP GFI 5-20R @ 750 mm (30") ABOVE FINISHED ROOF LEVEL C/W WET LOCATION COVER PLATE, TYPICAL. LOCATE WITHIN 7500 mm (25 FT) OF NEW HVAC EQUIPMENT, AND AT LEAST 1800 mm (6 FEET) AWAY FROM ROOF LINE. COVER PLATE TO BE MARKED "EXTRA 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)).

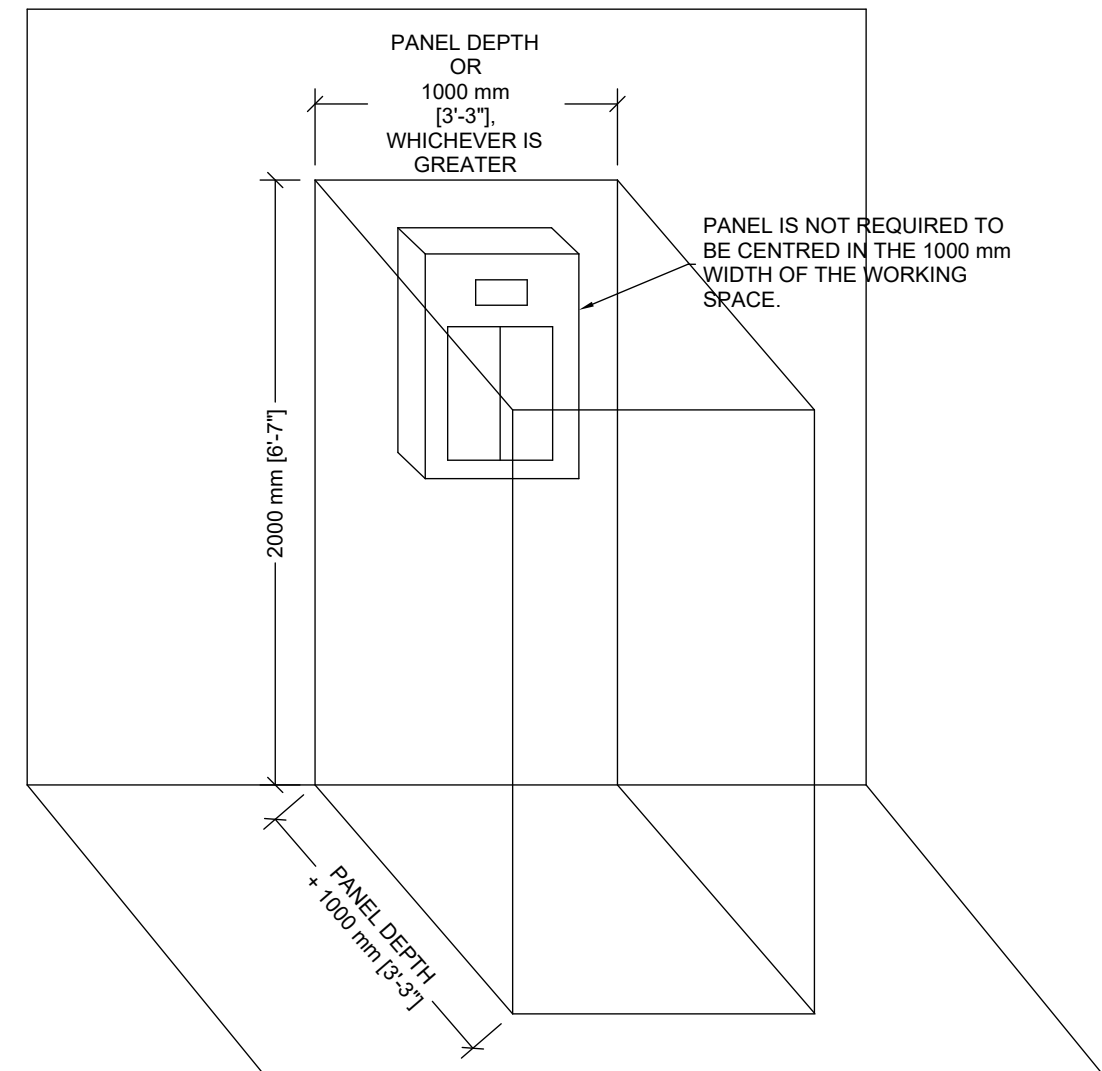
3 MAINTENANCE RECEPTACLE ROOF MOUNTED HVAC EQUIPMENT

SCALE:N.T.S.



6 WALL MOUNTED OUTLET BOX (SURFACE)

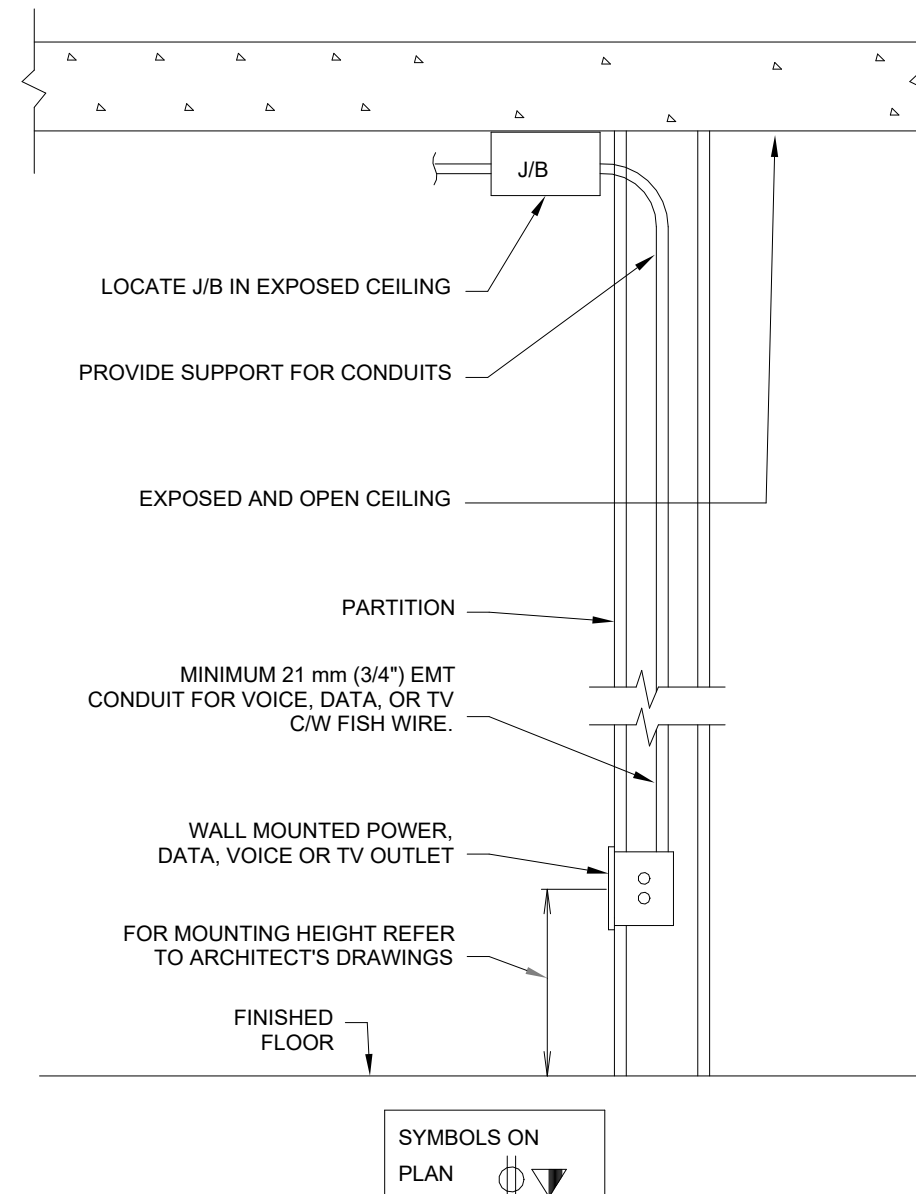
SCALE:N.T.S.



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

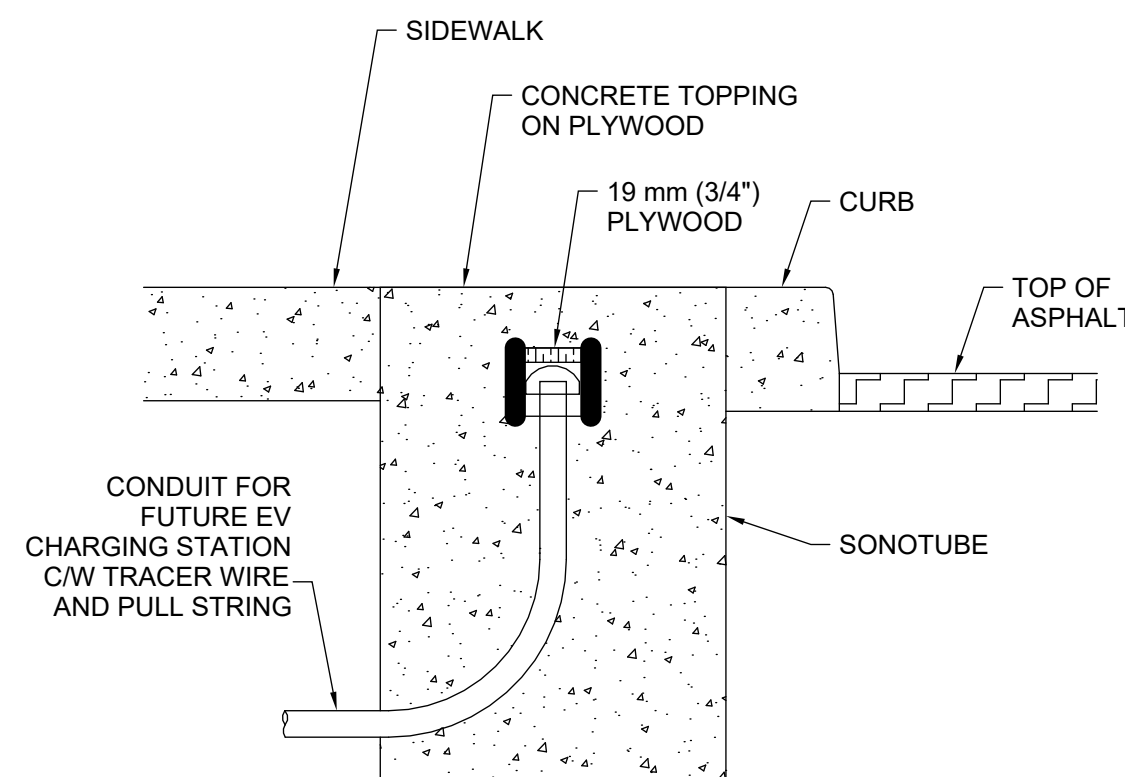
5 CLEAR SPACE AROUND PANELBOARDS

SCALE:N.T.S.

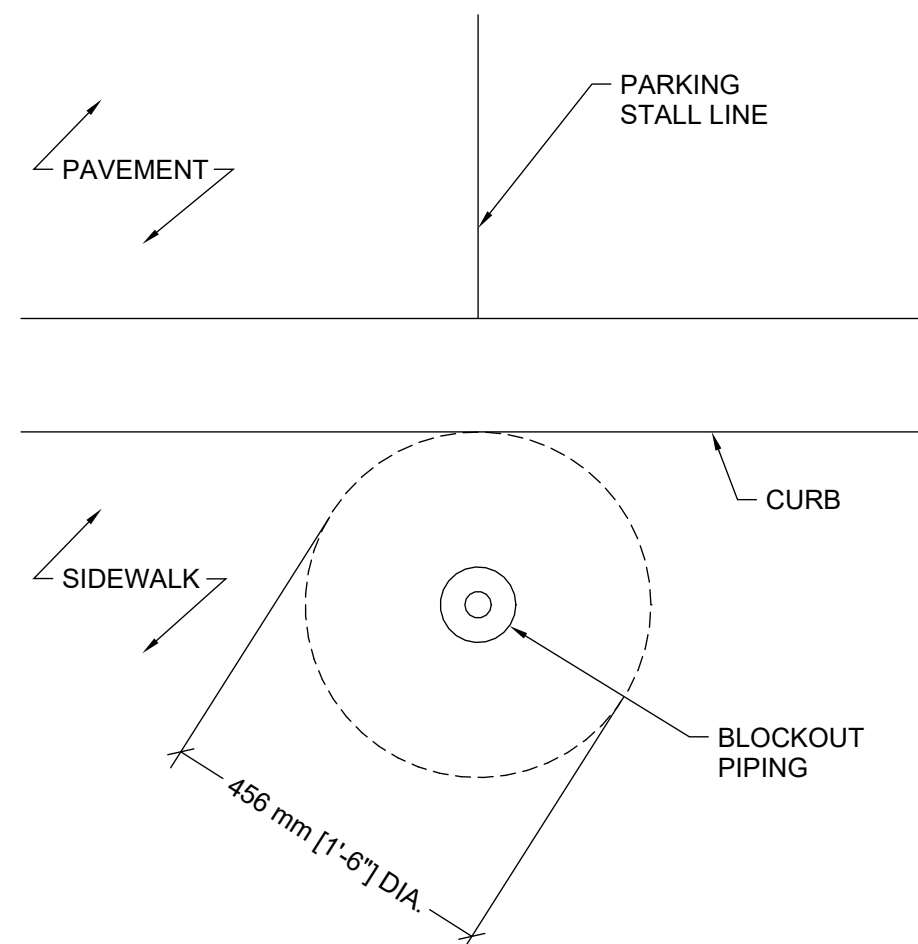


4 Wall Mounted Outlet Box Wall Recessed

SCALE:N.T.S.



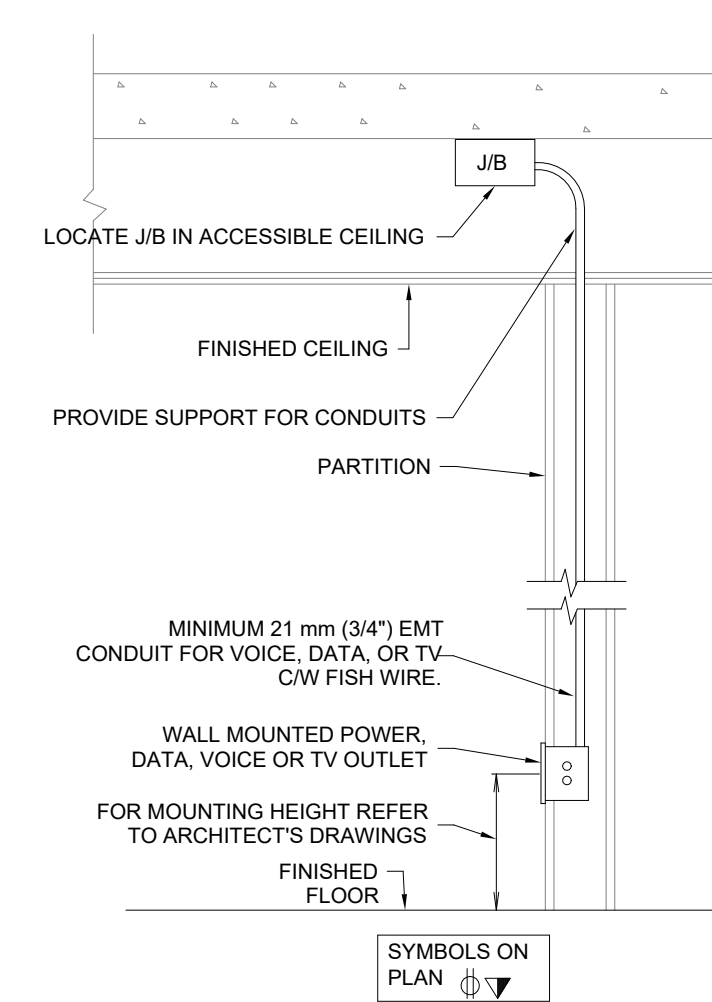
SECTION VIEW



PLAN VIEW

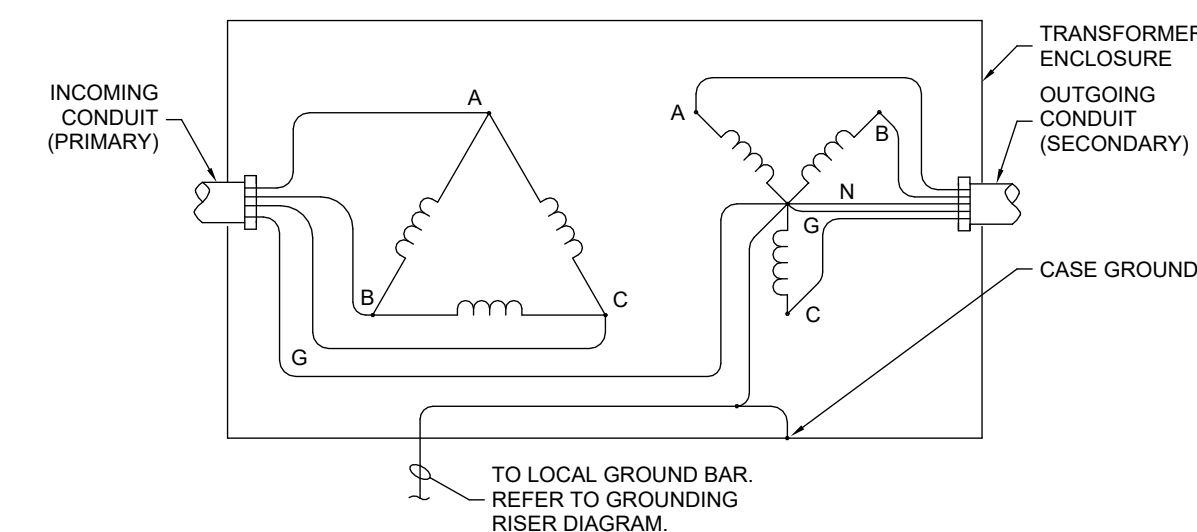
1 Future EV Charging Station Pedestal Rough-In

SCALE: 1 : 10



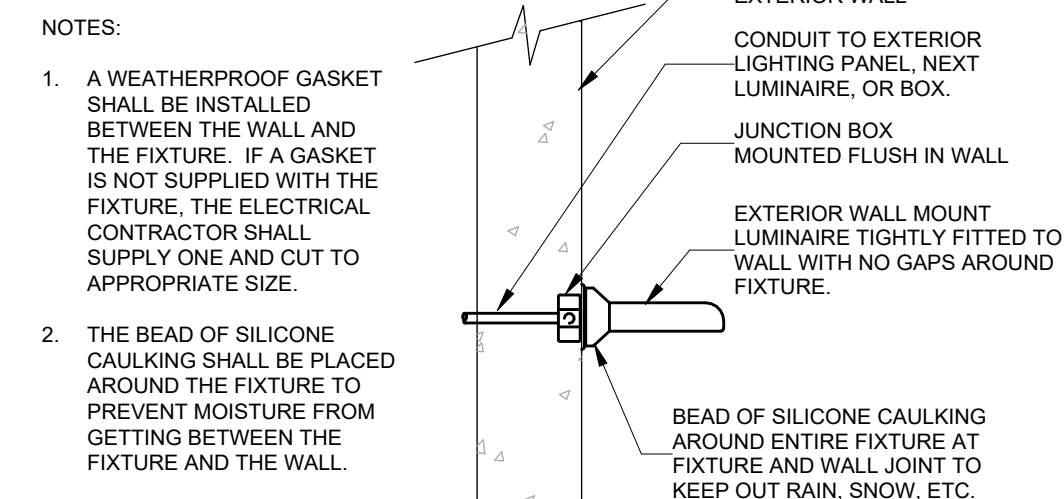
2 Wall Mounted Outlet Box Wall Recessed Ceiling

SCALE:N.T.S.



8 TRANSFORMER GROUNDING

SCALE: 1 : 50



7 Sealing of Wall Mounted Exterior Luminaires

SCALE:N.T.S.

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Key
Plan



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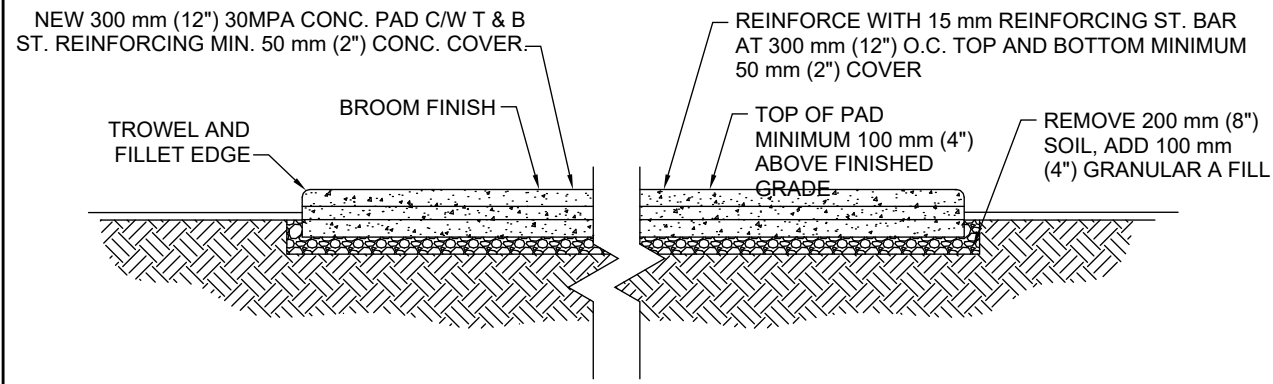
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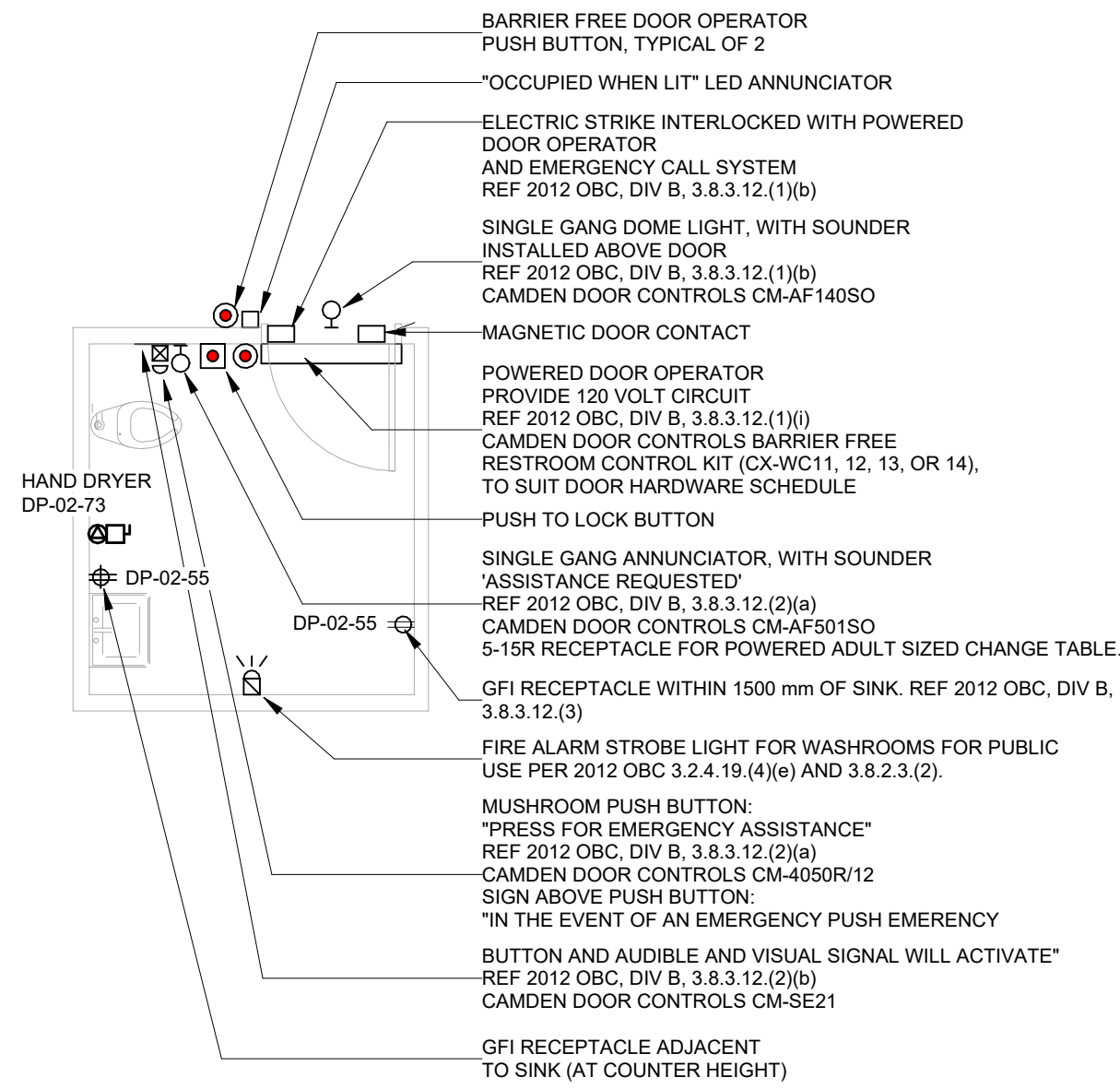
Sheet
Title:
ELECTRICAL DETAILS

Drawing
No.
E-800



Cast-In-Place Concrete Generator Pad (NIC)

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:

1. 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.
2. 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.
3. CM-AF140SO SINGLE GANG DOME LIGHT WITH PIEZO SOUNDER, RATED 93 dB AT 1 METRE, BRUSHED STAINLESS STEEL FACEPLATE AND 24 V INCANDESCENT BULB.
4. 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\".
5. INTERCONNECTED WITH DOOR HARDWARE, INCLUDING DOOR OPERATOR, PUSH TO LOCK BUTTON, ELECTRIC STRIKE, DOOR CONTACT.

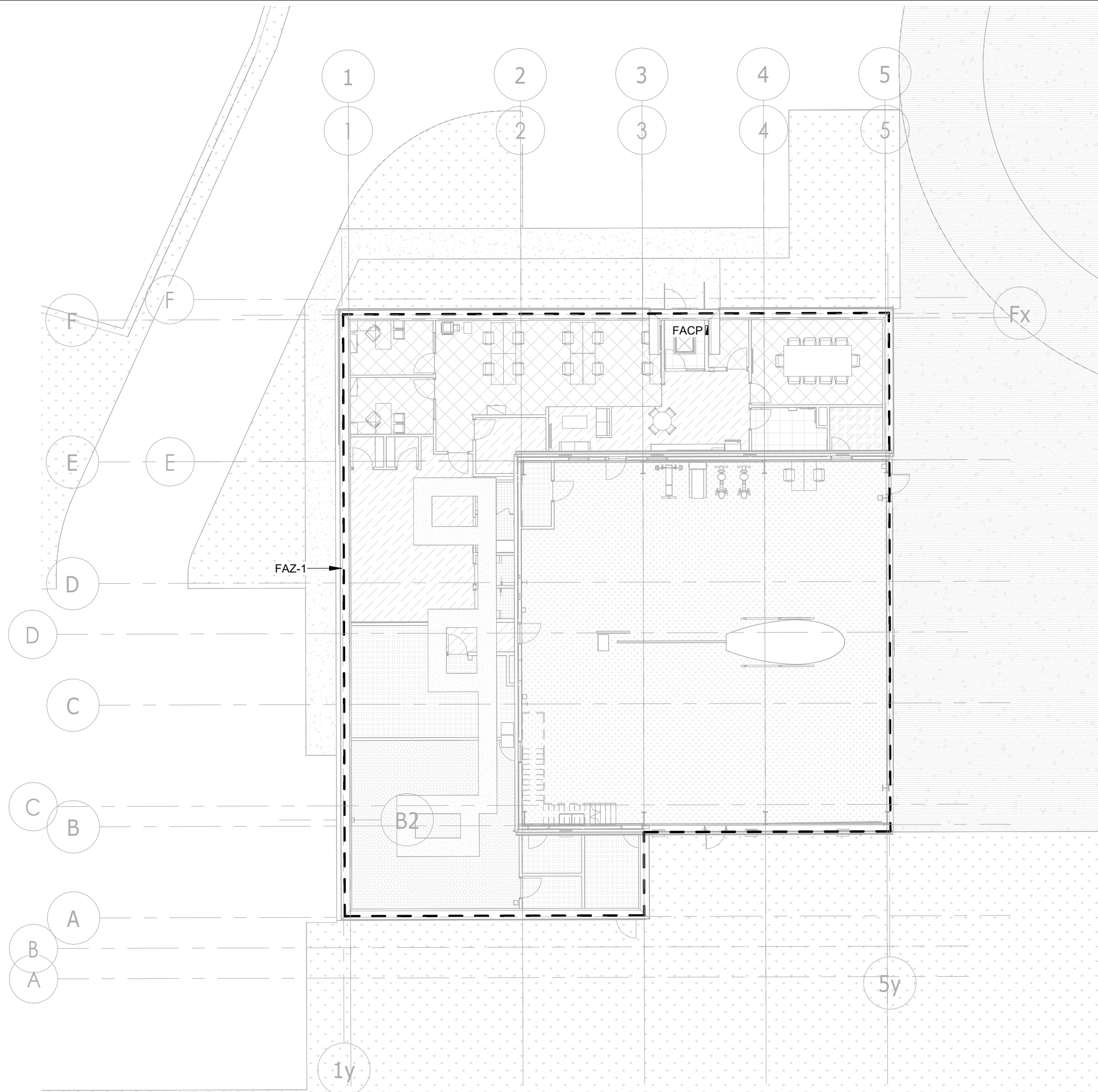
NOTES:

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

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

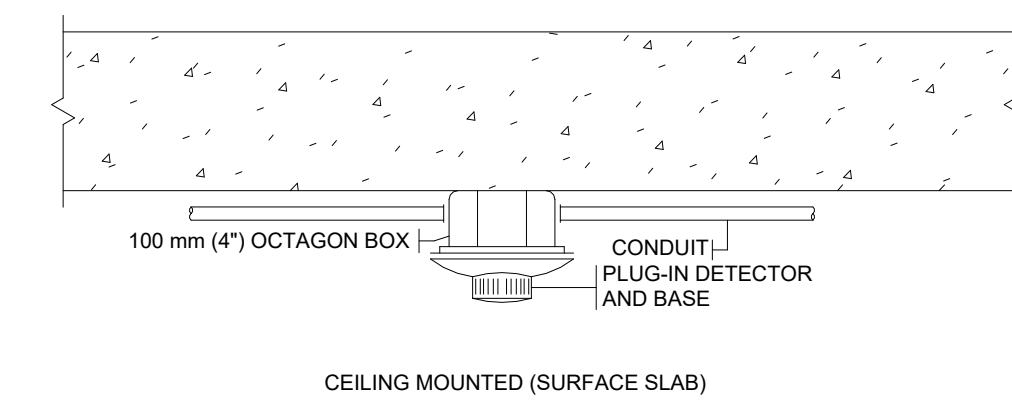
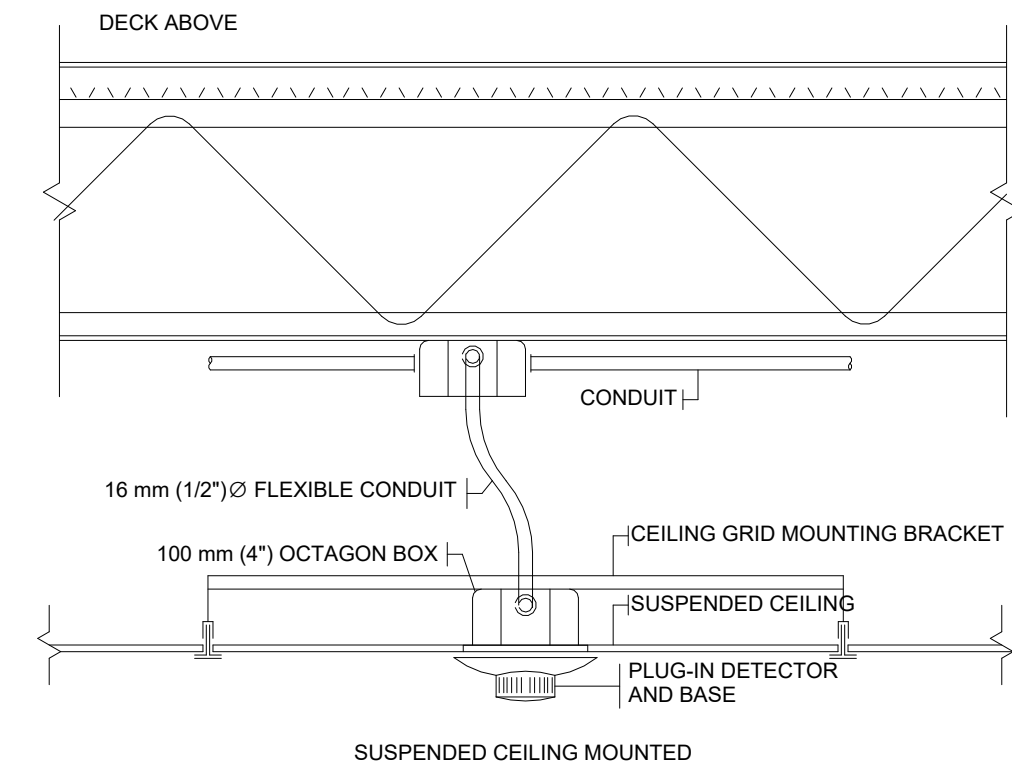
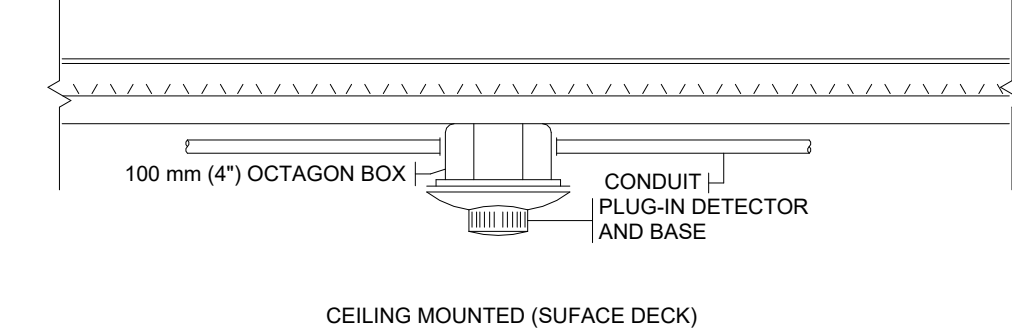
Universal Washroom Door Operator and Emergency Call System

SCALE:N.T.S.



FIRE ALARM ZONES

SCALE:N.T.S.



Typical Smoke Detector Installations

SCALE:N.T.S.

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Scale: As indicated



Sheet
Title:
ELECTRICAL DETAILS

Drawing
No.
E-801

YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST
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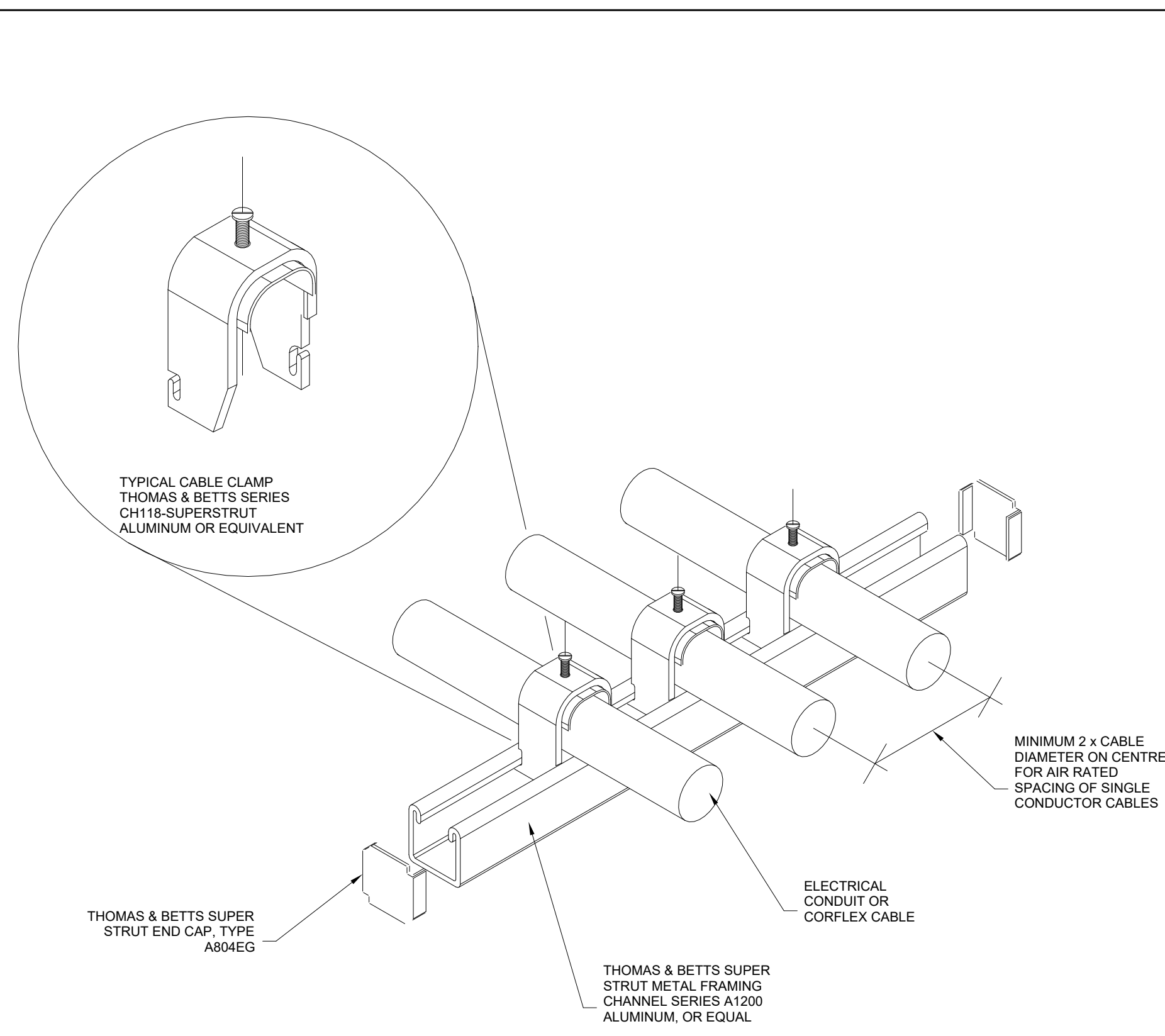
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Sheet
Title:

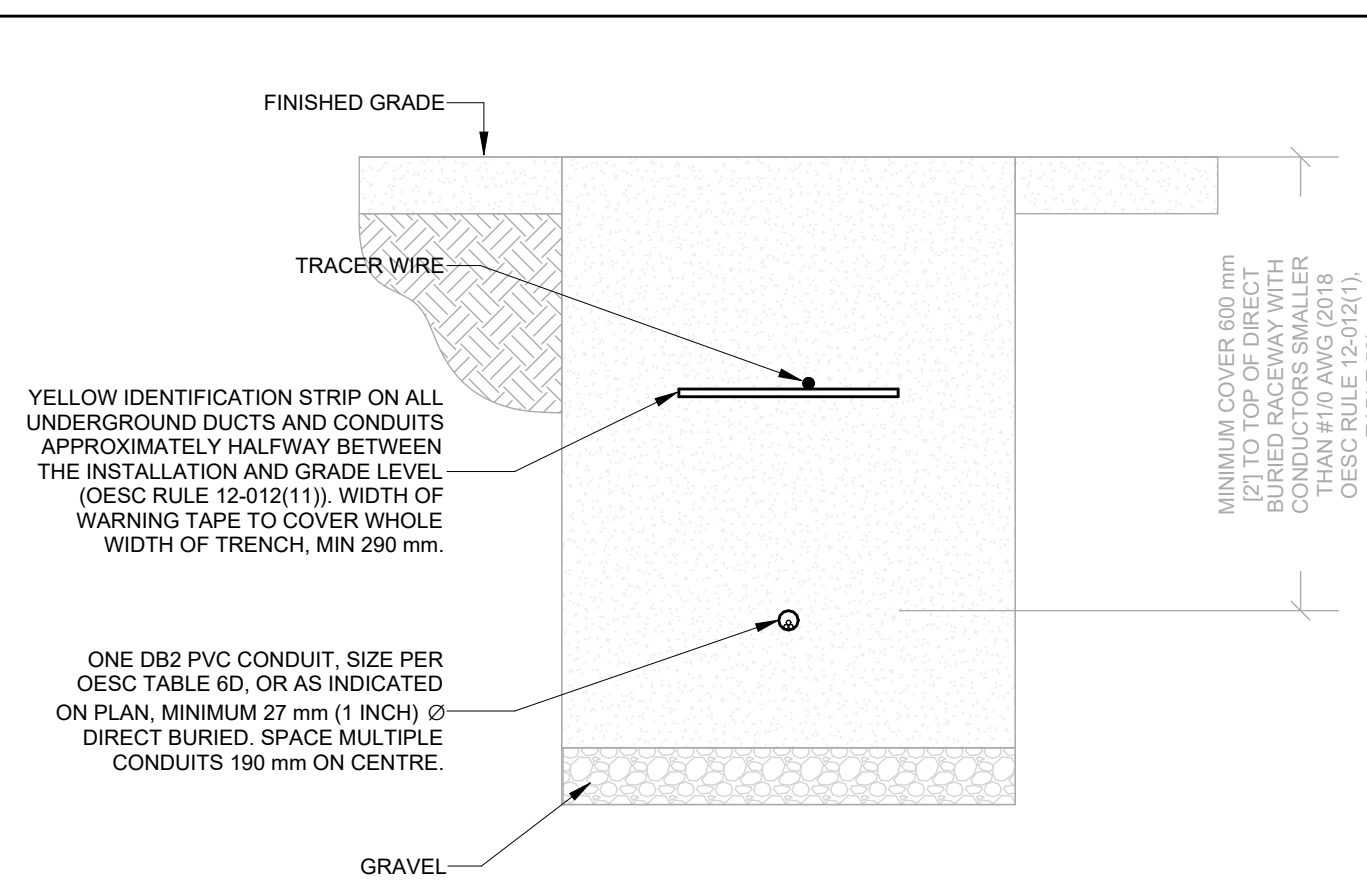
ELECTRICAL DETAILS

Drawing
No. **E-803**



Strut Channel Suspension for Conduit and Cable

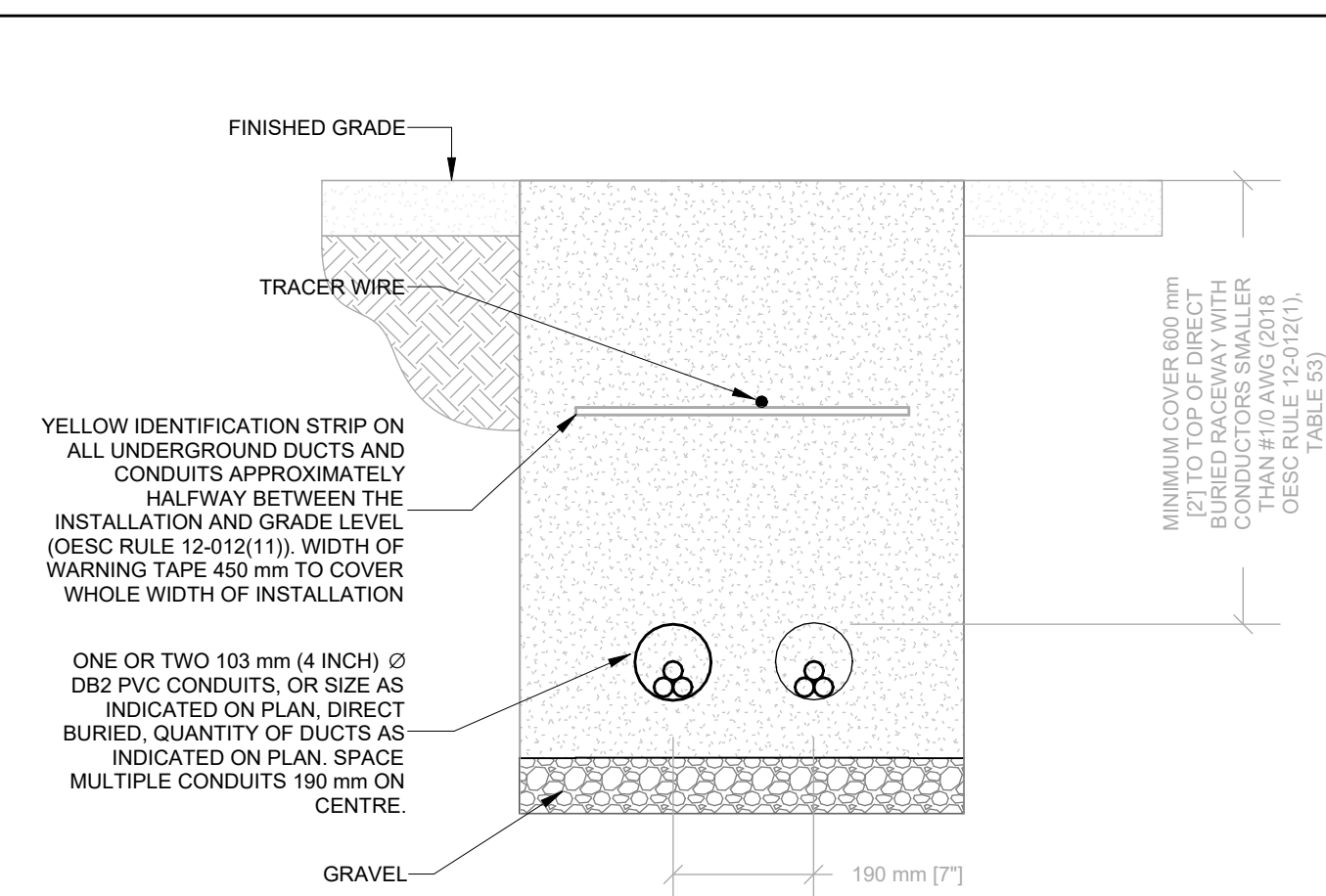
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DIRECT BURIED RACEWAY SECTION, 750 V OR LESS

NOTES:

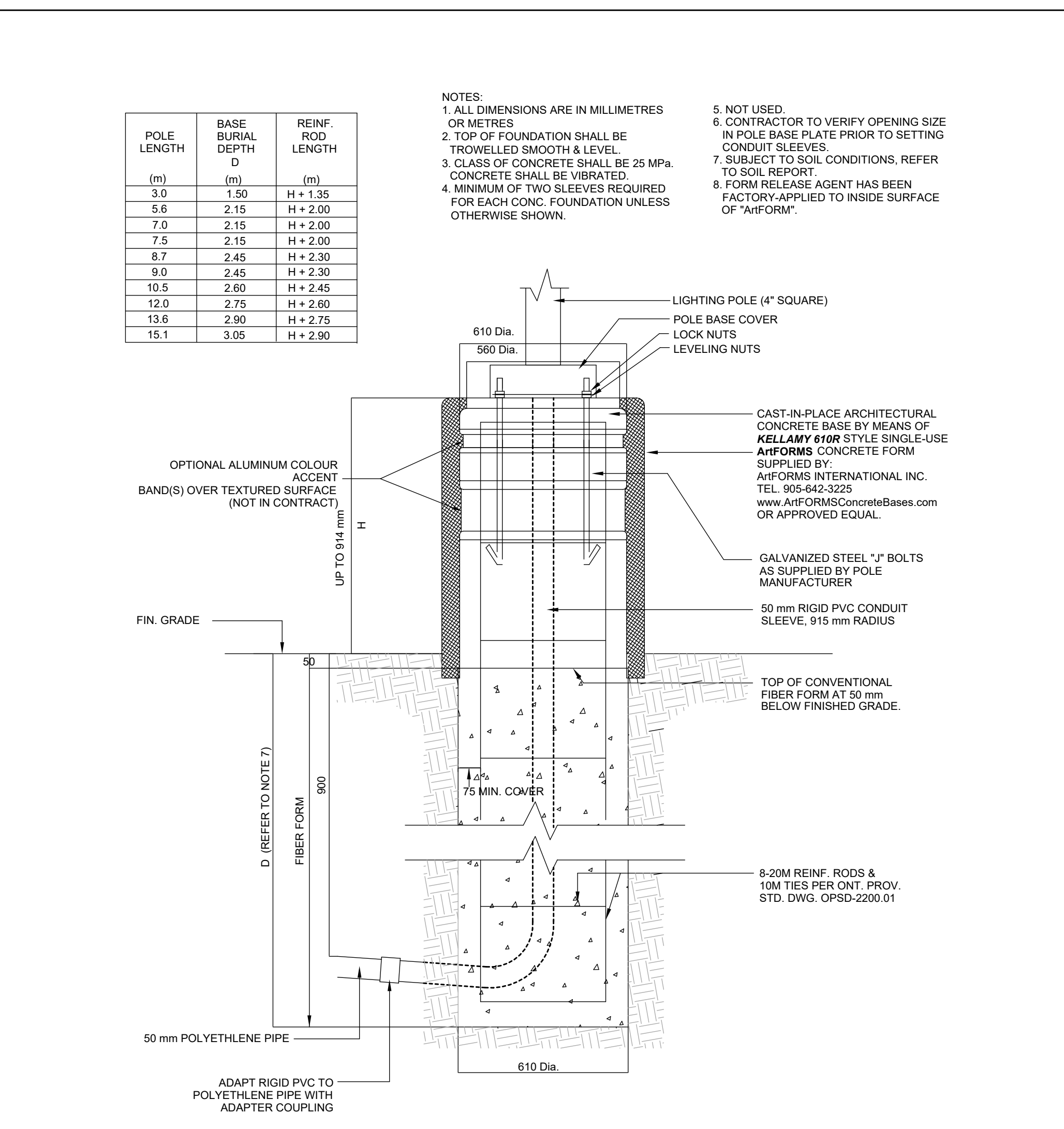
1. METRIC DIMENSIONS GOVERN.
2. DIRECT BURIED RACEWAY DUCTS TO BE IN COMPLIANCE WITH 2018 ONTARIO ELECTRICAL SAFETY CODE (OESC), TABLE 53. MINIMUM COVER DEPTH MAY BE REDUCED BASED ON CRITERIA DESCRIBED IN TABLE 53.
3. DIRECT BURIED RACEWAY DUCTS TO BE INSPECTED PRIOR BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION (ESA) AND RECEIVE ALL NECESSARY APPROVALS.
4. THIS DETAIL DOES NOT APPLY WHERE CONDUCTOR SIZE IS #10 OR GREATER IN A DIRECT BURIED RACEWAY. PROVIDE AN AMPACITY CALCULATION IN ACCORDANCE WITH IEEE 835.



DIRECT BURIED RACEWAY SECTION, 750 V OR LESS

NOTES:

1. METRIC DIMENSIONS GOVERN.
2. 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.
3. DIRECT BURIED RACEWAY DUCTS TO BE INSPECTED PRIOR BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION (ESA) AND RECEIVE ALL NECESSARY APPROVALS.
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Lighting Standard High Architectural Base

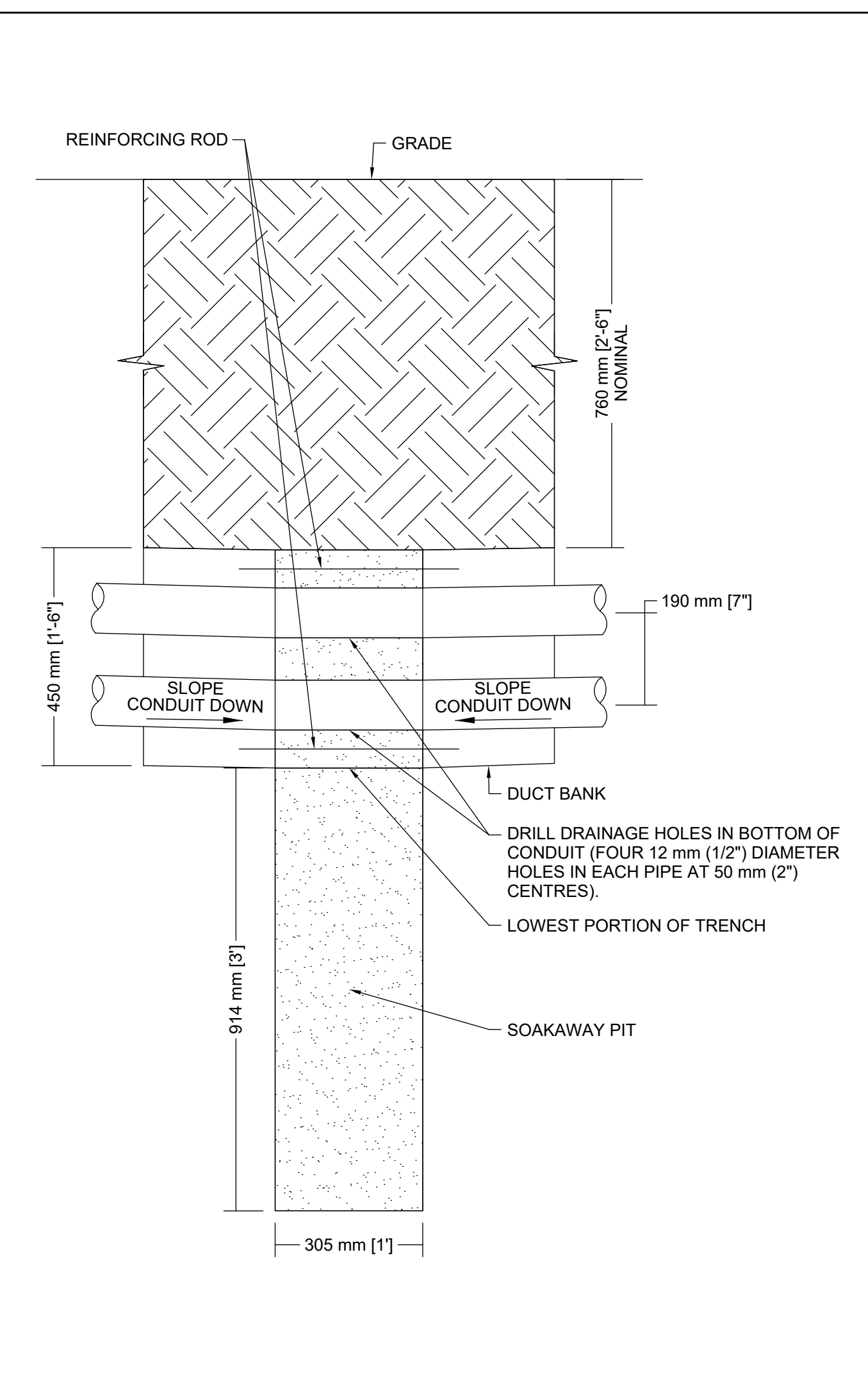
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ELECTRICAL ENERGY EFFICIENCY NOTES FOR PERMIT (ONTARIO BUILDING CODE SB-10)

ITEM	DESCRIPTION	CODE REFERENCE	SPECIFICATION REFERENCE
1A.	FEEDER CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.	QBC 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.	QBC 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.	QBC 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 FOLLOWINGS UNLESS EXEMPT: A. TOTAL ELECTRICAL ENERGY, B. HVAC, C. INTERIOR LIGHTING, D. EXTERIOR LIGHTING, E. RECEPTACLE CIRCUITS.	QBC 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	QBC 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	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.1.	26 09 23
5.1.	SPACES PROVIDED WITH READILY ACCESSIBLE LOCAL CONTROLS.	QBC SB-10-2017, ASHRAE 90.1-2017, 9.4.1.1A.	26 09 23
5.2.	MAXIMUM OCCUPANCY SENSOR TIMEOUT 20 MINUTES.	QBC 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.	QBC 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	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.2.	
6.3.	PARKING GARAGE DAYLIGHT TRANSITION ZONE TO BE ON A SEPARATE SCHEDULE.	QBC 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 4% UNLESS EXEMPT.	QBC 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.	QBC 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.	QBC 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.	QBC 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.	QBC 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.	QBC 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.	QBC 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.	QBC SB-10, ASHRAE 90.1-2010, 9.4.4.	26 09 23

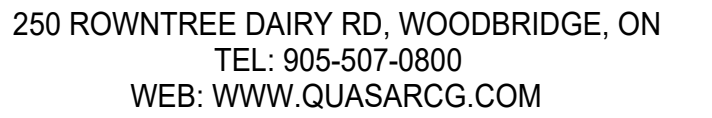
Electrical SB-10 Notes

SCALE: 1 : 1

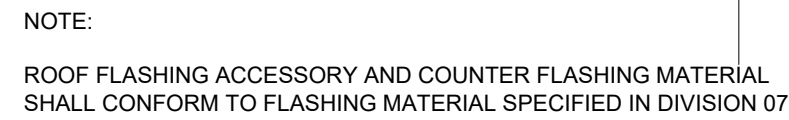


Duct Bank Soakaway Pit

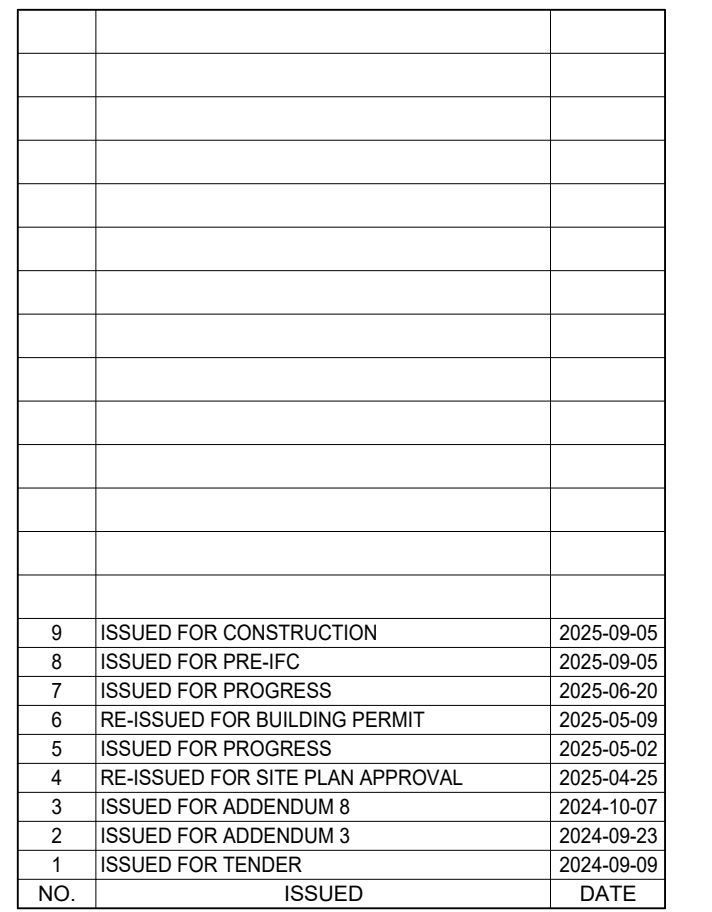
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88 BALES DRIVE EAST
(FORMERLY 350 GARFIELD
WRIGHT BLVD)



6 CONDUIT ROOF PENETRATION FLASHING
SCALE:1 : 300

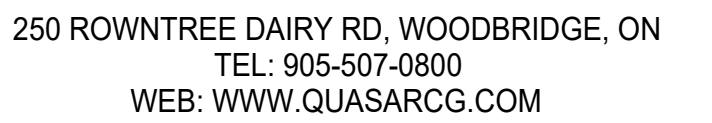


All measurements are to be checked and verified on site by the contractor before proceeding with work

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



Drawing
No.
E-804



88 BALES DRIVE EAST
(FORMERLY 350 GARFIELD
WRIGHT BLVD)

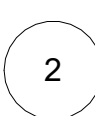
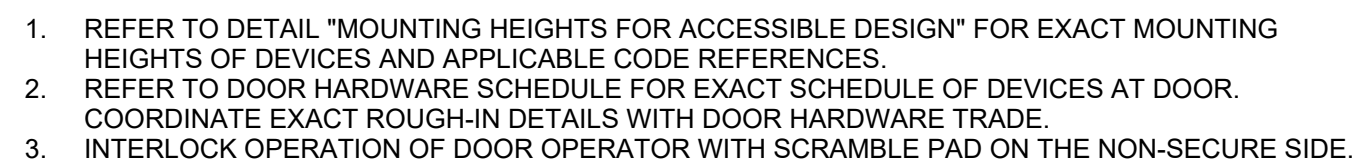
TRUE NORTH

PROJECT NORTH

Issues

Do not scale drawings

Drawing
No. E-805



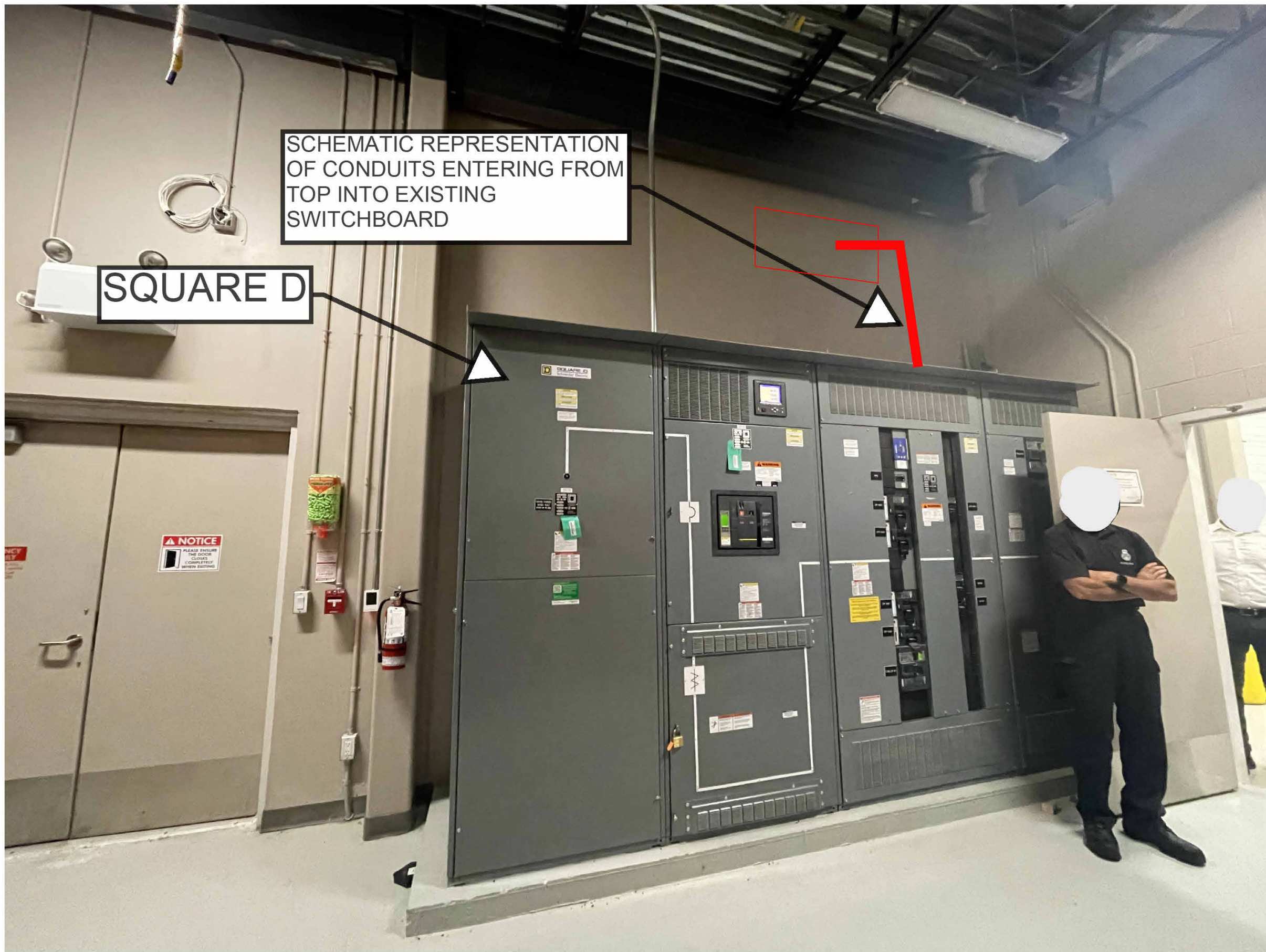
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SCALE: 1 : 50

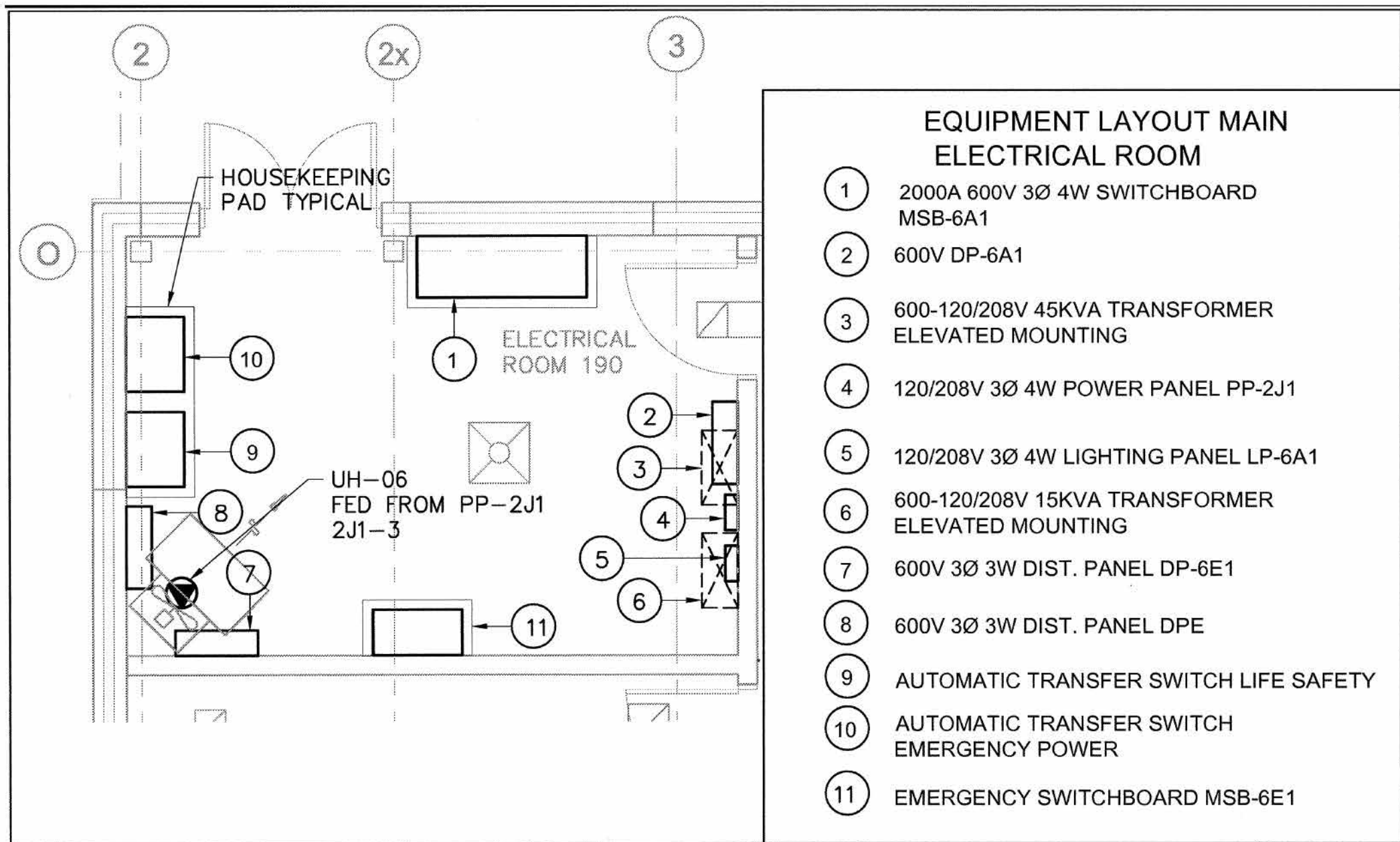




2 MAIN ELECTRICAL ROOM - EXTERIOR VIEW1
SCALE:N.T.S.



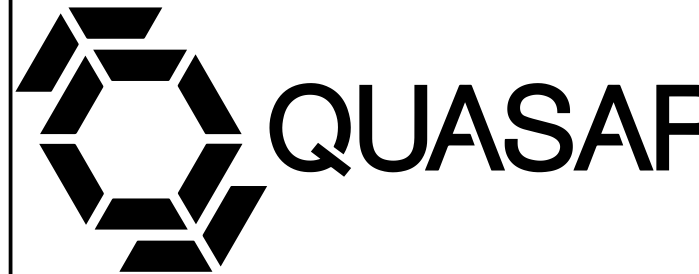
1 MAIN ELECTRICAL ROOM - MSB-6A1
SCALE:N.T.S.



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

PARKIN

Parkin Architects Limited
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HELICOPTER HANGAR

88 BALES DRIVE EAST
(FORMERLY 350 GARFIELD
WRIGHT BLVD)

Key
Plan



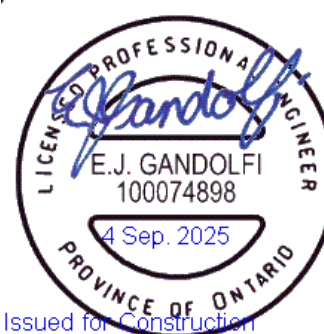
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8	ISSUED FOR CONSTRUCTION	2025-09-05
7	ISSUED FOR PRE-IFC	2025-09-05
6	ISSUED FOR PROGRESS	2025-06-20
5	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
4	ISSUED FOR PROGRESS	2025-05-02
3	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
2	ISSUED FOR ADDENDUM 15	2024-12-04
1	ISSUED FOR ADDENDUM 8	2024-10-07

Issues

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

Do not scale drawings

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



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

Drawing
No.
E-806

Drawing
No. **E-900**

9/4/2025 3:36:44 PM
Autodesk Docs://2402 - YRP Helicopter Hangar/TT-24-005-YRP-QCG ME Model_R24.tvt

Branch Panel: DP-01															
Location: MECHANICAL / ELECTRICAL 119										Volts: 600V			A.I.C. Rating: 42 kA		
Supply From:										Phases: 3			Mains Type:		
Mounting: SURFACE										Wires: 3			Mains Rating: 400 A		
Enclosure: NEMA 3R													MCB Rating: 250 A		
Notes:															
CKT	Circuit Description	QTY	Trip	Poles	A		B		C		Poles	Trip	QTY	Circuit Description	CKT
1	SURGE PROTECTION DEVICE	--	60 A	3	0 VA	1243 VA					3	15 A	1	P1-R (VSD)	2
3							0 VA	1243 VA							4
5								0 VA	1243 VA						
7	RESERVED SPACE FOR FUTURE PV INVERTER SYSTEM	--	0 A	3	0 VA	17667...					3	80 A	1	AIR SOURCE HEAT PUMP (VSD)	8
9							0 VA	17667...							10
11								0 VA	17667...						
13	RESERVED SPACE FOR FUTURE EV CHARGING	--	0 A	3	0 VA	400 VA					3	15 A	1	P-5R (VSD)	14
15							0 VA	400 VA							16
17									0 VA	400 VA					
19	P-2R (VSD)	1	25 A	3	400 VA	400 VA					3	25 A	1	P-2 (VSD)	20
21							400 VA	400 VA							22
23									400 VA	400 VA					
25	P-4 (VSD)	1	15 A	3	400 VA	167 VA					3	20 A	1	CRANE HOIST POWER	26
27							400 VA	167 VA							28
29									400 VA	167 VA					
31	ODU-1	1	30 A	3	7433 VA	400 VA					3	30 A	1	HANGAR BIFOLD DOOR CONTROLLER	32
33							7433 VA	400 VA							34
35									7433 VA	400 VA					
37	P-5 (VSD)	1	15 A	3	400 VA	400 VA					3	15 A	1	P-1 (VSD)	38
39							400 VA	400 VA							40
41									400 VA	400 VA					
43	P-3 (VSD)	1	15 A	3	400 VA	0 VA					3	150 A	--	TX-02	44
45							400 VA	0 VA							46
47									400 VA	0 VA					
49	RTU-2	1	25 A	3	7204 VA										50
51							7204 VA								52
53									7204 VA						
55															56
57															58
59															60
Total Load:					36914 VA		36914 VA		36914 VA						
Total Amps:					107 A		107 A		107 A						
Legend:															
Load Classification					Connected Load		Demand Factor		Estimated Demand		Panel Totals				
Other					110742 VA		100.00%		110742 VA						
											Total Conn. Load: 110742 VA				
											Total Est. Demand: 110742 VA				
											Total Conn.: 107 A				
											Total Est. Demand: 107 A				
Notes:															

Branch Panel: DP-02															
Location: MECHANICAL / ELECTRICAL...								Volts: 120/208 Wye				A.I.C. Rating: 22 kA			
Supply From: DP-03								Phases: 3				Mains Type:			
Mounting: SURFACE								Wires: 4				Mains Rating: 225 A			
Enclosure: NEMA 3R												MCB Rating: N/A			
Notes:															
CKT	Circuit Description	QTY	Trip	Pole s	A		B		C		Pole s	Trip	QTY	Circuit Description	CKT
1	EMERGENCY BATTERY PACK	2	15 A	1	100 VA	360 VA					1	15 A	2	R: CONFERENCE ROOM	2
3	PARKING & SIGNAGE LIGHTING	14	15 A	1			256 VA	180 VA			1	15 A	1	R: RPAS	4
5	EXIT SIGNS	10	20 A	1					275 VA	430 VA	1	20 A	2	R: CONFERENCE ROOM FLOOR...	6
7	AVIATION LIGHTING	1	15 A	1	500 VA										8
9	R: CONFERENCE ROOM	3	15 A	1			540 VA	720 VA			1	15 A	4	R: GENERAL OFFICE	10
11	R: OFFICE 1	3	15 A	1					540 VA	720 VA	1	15 A	4	R: OFFICE 2	12
13	LIGHTING	30	15 A	1	725 VA	500 VA					1	20 A	1	FACP	14
15	P: PAINT ROOM	1	15 A	1			180 VA	180 VA			1	15 A	1	INSTRUCTION PANEL	16
17	WINDSOCK AND...	2	15 A	1					1000...	1176...	1	15 A	1	B-1	18
19	R: HANGAR	10	20 A	1	1800...	1500...					1	15 A	3	AUTOMATIC DOOR OPERATORS...	20
21	LIGHTING	17	15 A	1			420 VA	180 VA			1	20 A	1	RECEPTACLE	22
23	B-2	1	15 A	1					1176...	1230...	1	15 A	13	LIGHTING	24
25	R: RPAS	1	20 A	1	180 VA	100 VA					2	15 A	1	FCU-1	26
27							500 VA	100 VA							28
29	GROUND POWER UNIT	2	20 A	2					500 VA	180 VA	1	20 A	1	R: MICROWAVE	30
31	R: KITCHEN COUNTER	1	20 A	1	180 VA	180 VA					1	15 A	1	R: FRIDGE	32
33	R: PRINTER	1	15 A	1			180 VA	180 VA			1	15 A	1	R: GARAGE DOOR	34
35	R: QUARTERMASTER	1	15 A	1					180 VA	180 VA	1	15 A	1	R: GARAGE DOOR	36
37	R: DISHWASHER	1	15 A	1	180 VA	360 VA					1	15 A	2	R: TV SECURITY DISPLAY	38
39	R: IT ROOM	1	15 A	1			180 VA	360 VA			1	15 A	2	R: VEHICLE BAY	40
41	ACCESS CONTROL PANEL	1	20 A	1					180 VA	1200...	1	15 A	1	TSP-1	42
43	R: MECHANICAL ROOM	2	15 A	1	360 VA	360 VA					1	15 A	1	R: IT ROOM	44
45	UNIVERSAL WASHROOM SENSOR	1	15 A	1			500 VA	360 VA			1	15 A	2	R: LOUNGE AND TV	46
47	R: RADIO	2	15 A	1					360 VA	360 VA	1	20 A	2	R: MAINTENANCE	48
49	WASHROOM SENSORS	2	20 A	1	1000...	210 VA					1	20 A	6	LIGHTING - EXTERIOR	50
51	R: GENERAL OFFICE	2	15 A	1			360 VA								52
53	R: WASHROOM	2	15 A	1					360 VA	1485...	1	20 A	9	LIGHTING - DWELLING UNIT	54
55	R: UNIVERSAL WASHROOM	--	15 A	1	500 VA	167 VA									56
57							167 VA				3	30 A	1	IT RACK	58
59										167 VA					60
61	LIGHTING	6	15 A	1	714 VA	200 VA					2	15 A	1	EBBH-1	62
63							200 VA								64
65									250 VA						66
67	GATE POWER	1	20 A	2	250 VA										68
69															70
71															72
73	R: HAND DRYER	--	15 A	1	0 VA										74
75															76
77															78
79															80
81															82
83															84
Total...					10425 VA		5742 VA		11883 VA						
Total...					93 A		48 A		105 A						
Legend:															
Load Classification					Connected Load		Demand Factor		Estimated Demand		Panel Totals				
Other					11702 VA		100.00%		11702 VA						
Spare					500 VA		100.00%		500 VA		Total Conn. Load: 28046 VA				
EMERGENCY BATTERY PACK					100 VA		100.00%		100 VA		Total Est. Demand: 28098 VA				
Lighting - Dwelling Unit					1549 VA		100.00%		1549 VA		Total Conn.: 78 A				
Receptacle					10260 VA		100.00%		10260 VA		Total Est. Demand: 78 A				
Notes:															

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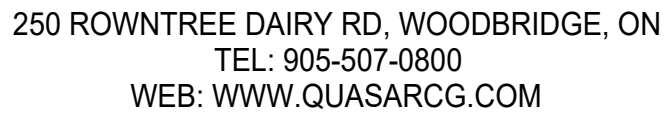
88 BALES DRIVE EAST
(FORMERLY 350 GARFIELD
WRIGHT BLVD)

Key
Plan



Branch Panel: DP-03															
Location: MECHANICAL / ELECTRICAL 119 Supply From: Mounting: Surface Enclosure: NEMA 3R							Volts: 120/208 Wye Phases: 3 Wires: 4			A.I.C. Rating: 22 kA Mains Type: Mains Rating: 400 A MCB Rating: N/A					
Notes:															
CKT	Circuit Description	QTY	Trip	Poles	A		B		C		Poles	Trip	QTY	Circuit Description	CKT
1	R: WASHER	1	15 A	1	180 VA	1400 VA					1	15 A	2	EF-5, 6	2
3	EF-2, 4	2	15 A	1			1400 VA	400 VA			1	30 A	1	TLWH-1	4
5										2496 VA					6
7	METERING CABINET	1	15 A	1	500 VA	2496 VA					2	30 A	1	R: DRYER	8
9	EBBH-2	1	15 A	2			200 VA	200 VA			2	50 A	1	TLWH-2	10
11									200 VA	200 VA					12
13	FUEL TANK (FUTURE)	1	15 A	2	250 VA	200 VA					2	60 A	1	TLWH-5	14
15							250 VA	200 VA							16
17									10425...	200 VA					18
19	DP-02	1	225 A	3	5742 VA	200 VA					2	60 A	1	TLWH-3	20
21							11883...	1080 VA			1	15 A	5	UH-1 TO UH-5	22
23	EF-1, 3	2	15 A	1					1900 VA	233 VA					24
25					200 VA	233 VA					3	25 A	1	AIR COMPRESSOR	26
27	TLWH-4	1	50 A	2			200 VA	233 VA							28
29										167 VA					30
31					3843 VA	167 VA					3	20 A	1	GENERATOR ENCLOSURE PANEL	32
33	RTU-1	1	40 A	3			3843 VA	167 VA							34
35									3843 VA	0 VA	1	15 A	--	HELIPAD LIGHTING CONTROLLER	36
37					2714 VA	3000 VA									38
39	VAV-1	1	25 A	3			2714 VA	3000 VA			3	25 A	1	EWH-1	40
41									2714 VA	3000 VA					42
43					3543 VA	2294 VA									44
45	VAV-2	1	30 A	3			3543 VA	2294 VA			3	20 A	1	VAV-4	46
47									3543 VA	2294 VA					48
49					2498 VA										50
51	VAV-5	1	25 A	3			2498 VA								52
53									2498 VA						54
55															56
57															58
59															60
					Total Load:	29459 VA		34099 VA		33712 VA					
					Total Amps:	245 A		290 A		286 A					
Legend:															
Load Classification					Connected Load		Demand Factor		Estimated Demand						

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88 BALES DRIVE EAST
(FORMERLY 350 GARFIELD
WRIGHT BLVD)

Key Plan

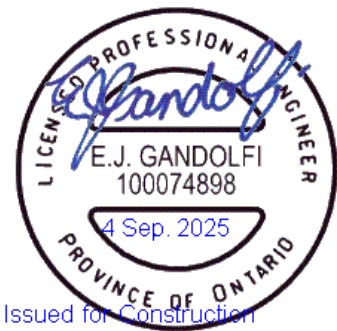
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Issues

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

Do not scale drawings

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



Sheet
Title:

ELECTRICAL SCHEDULES

Drawing
No. **E-902**