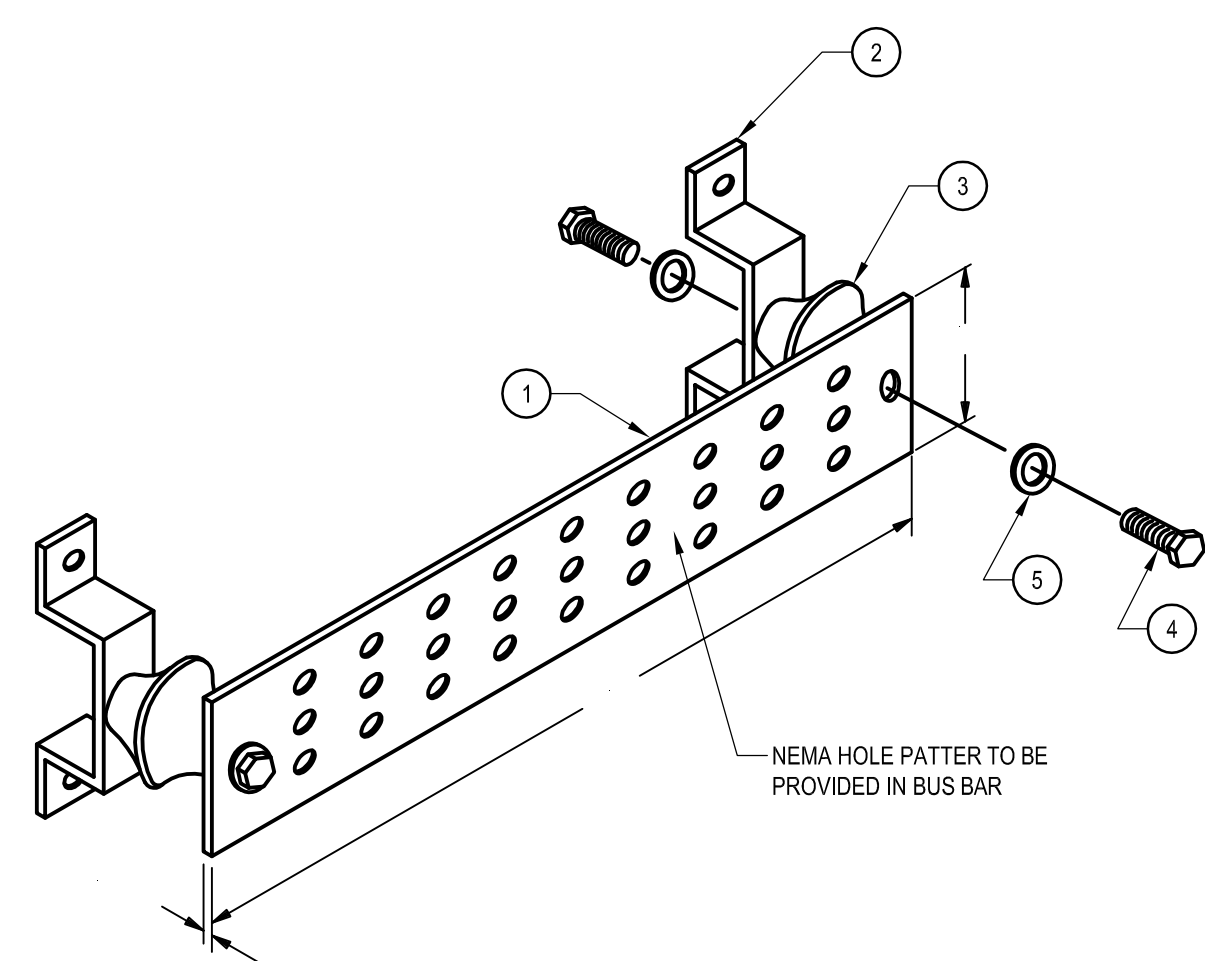
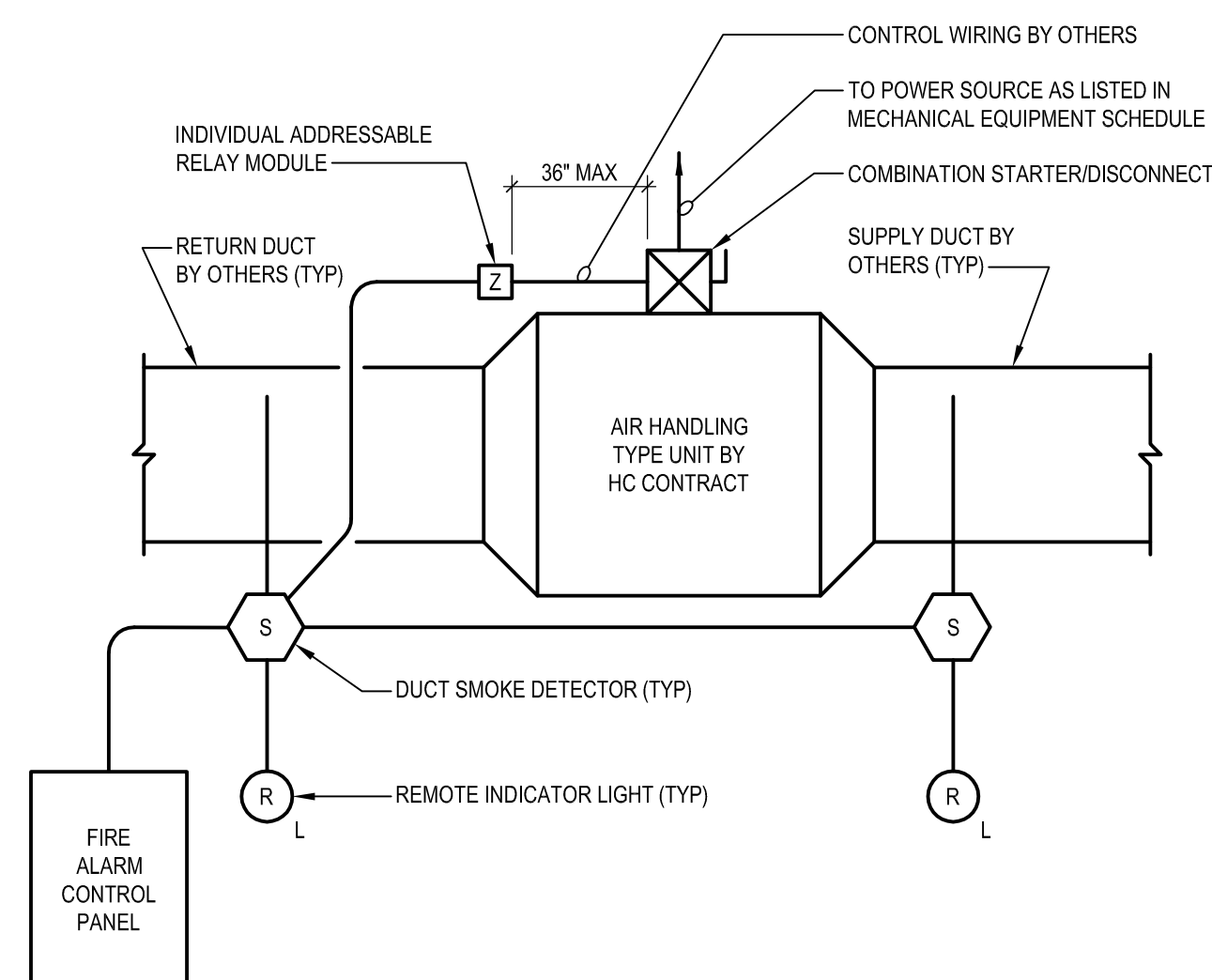


1 GENERATOR ACCESSORIES CONNECTION DETAIL
NOT TO SCALE



- GROUND BAR KEYED NOTES:
1. SOLID COPPER GROUND BAR 1/4"x4"x24
 2. WALL MOUNTING BRACKET
 3. INSULATORS
 4. 5/8" - 1 1/4" HHCS BOLTS
 5. 5/8" LOCKWASHER

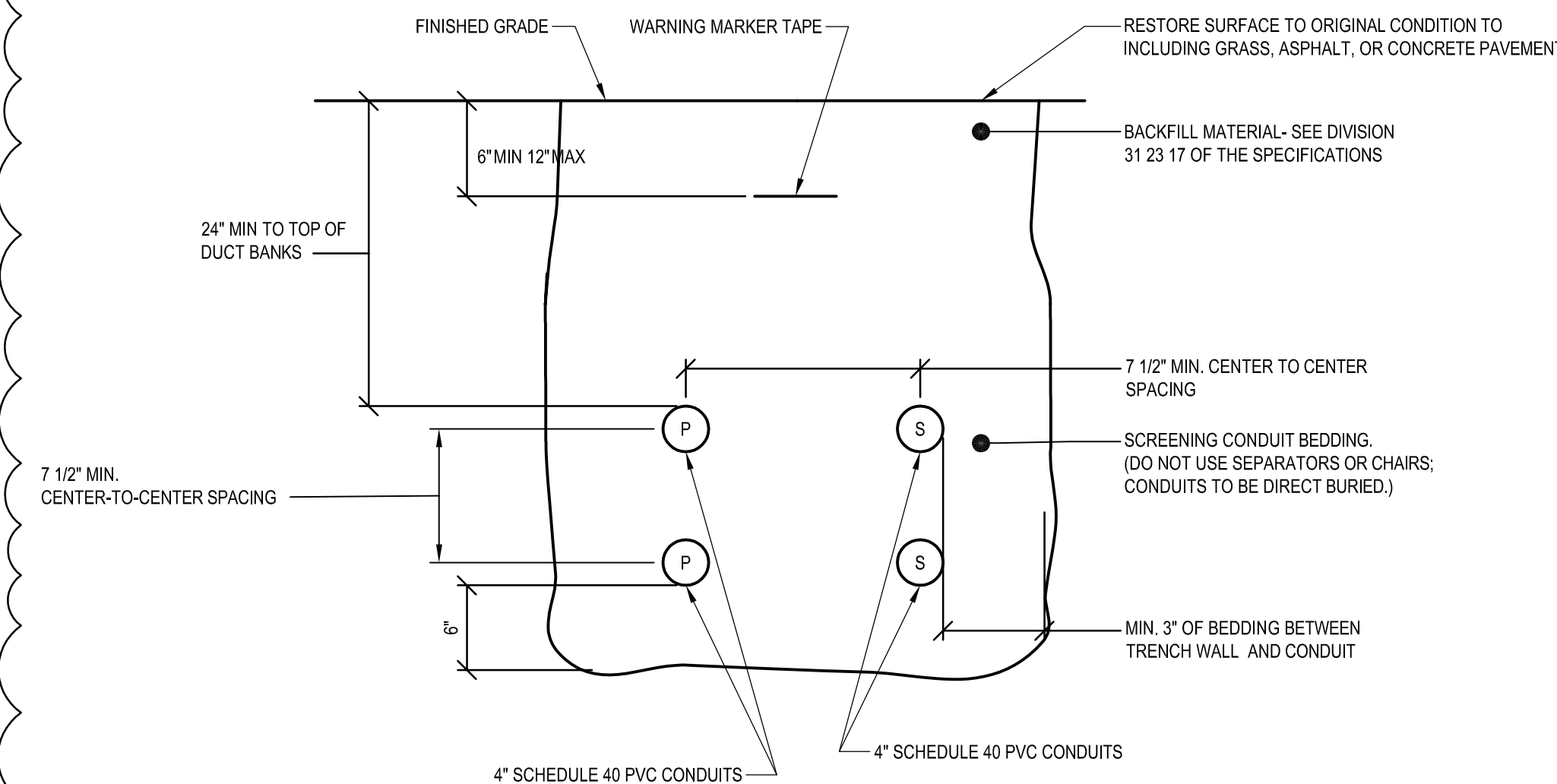
4 TYPICAL GROUND BAR DETAIL
NOT TO SCALE



DUCT DETECTOR NOTES:

1. DUCT DETECTOR(S) SHALL BE PROVIDED IN DUCT(S) AS SHOWN ON THE MECHANICAL DRAWINGS. DUCT DETECTORS SHALL BE MOUNTED A MINIMUM OF 6 DUCT WIDTHS DOWNSTREAM FROM BENDS OR INLETS, ON DOWNSTREAM SIDE OF FILTERS, AHEAD OF MIXING AREAS IN THE RETURN DUCT, UPSTREAM OF AIR HUMIDIFIERS AND COOLING COILS, AND WITH ACCESSIBILITY FOR TESTING AND SERVICE PER NFPA 90A.
2. INDIVIDUAL ADDRESSABLE RELAY MODULE SHALL BE PROVIDED TO FACILITATE THE SHUTDOWN OF THE AHU BY EITHER OR BOTH OF THE SUPPLY AND RETURN DUCT DETECTOR(S) SHOULD BOTH BE INSTALLED. MODULE SHALL BE MOUNTED WITHIN 36" OF THE AHU'S DISCONNECT SWITCH.
3. IF THE DUCT DETECTOR(S) GO INTO ALARM, THE FIRE ALARM CONTROL PANEL SHALL CAUSE THE AIR HANDLING UNIT TO AUTOMATICALLY SHUTDOWN.
4. DUCT DETECTORS SHALL BE FURNISHED BY THE EC AND INSTALLED BY OTHERS WITH FINAL CONNECTION (INCLUDING WIRING) TO THE FIRE ALARM CONTROL PANEL BY THE EC.
5. INSTALL REMOTE INDICATOR LIGHTING FLUSH WITH FINISHED CEILING DIRECTLY BELOW DUCT DETECTOR UNLESS NOTE OTHERWISE. REMOTE TESTING OF DUCT DETECTOR SHALL BE VIA THE FIRE ALARM CONTROL PANEL AND/OR ANNUNCIATOR.
6. UNLESS NOTED OTHERWISE, ALL EQUIPMENT AND CIRCUITING SHOWN SHALL BE FURNISHED AND INSTALLED BY THE EC.
7. INFORMATION SHOWN ON THIS DIAGRAM SHALL BE INCORPORATED INTO THE FIRE ALARM RISER DIAGRAM AS REQUIRED.

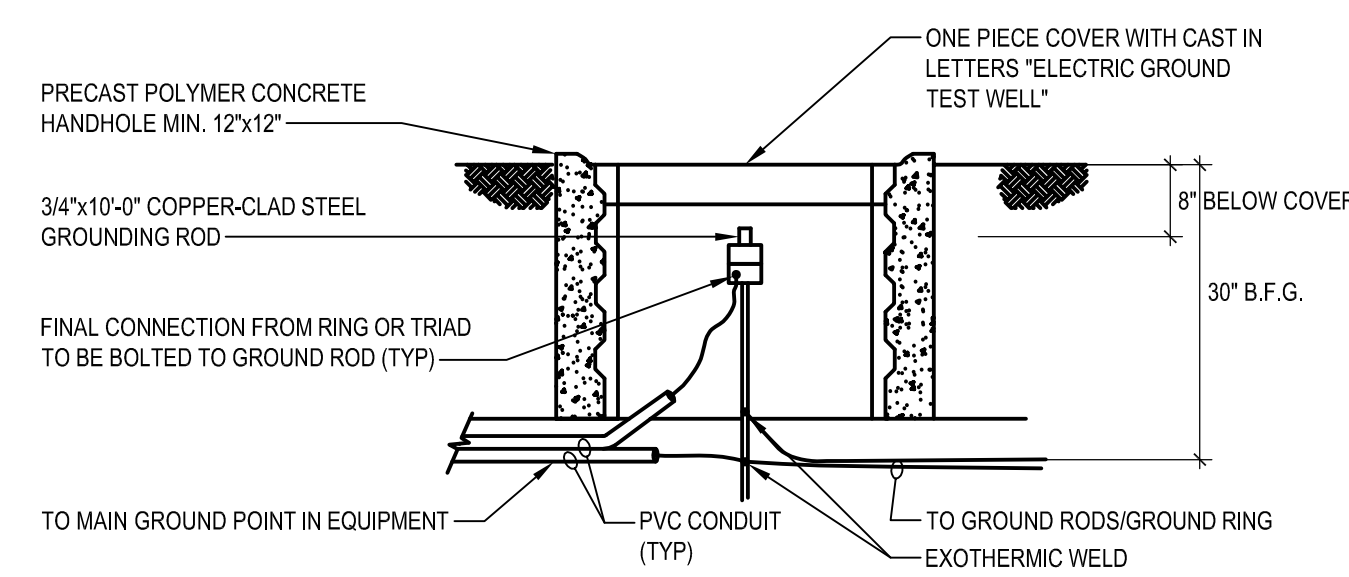
8 DUCT DETECTOR INSTALLATION DETAIL
NOT TO SCALE



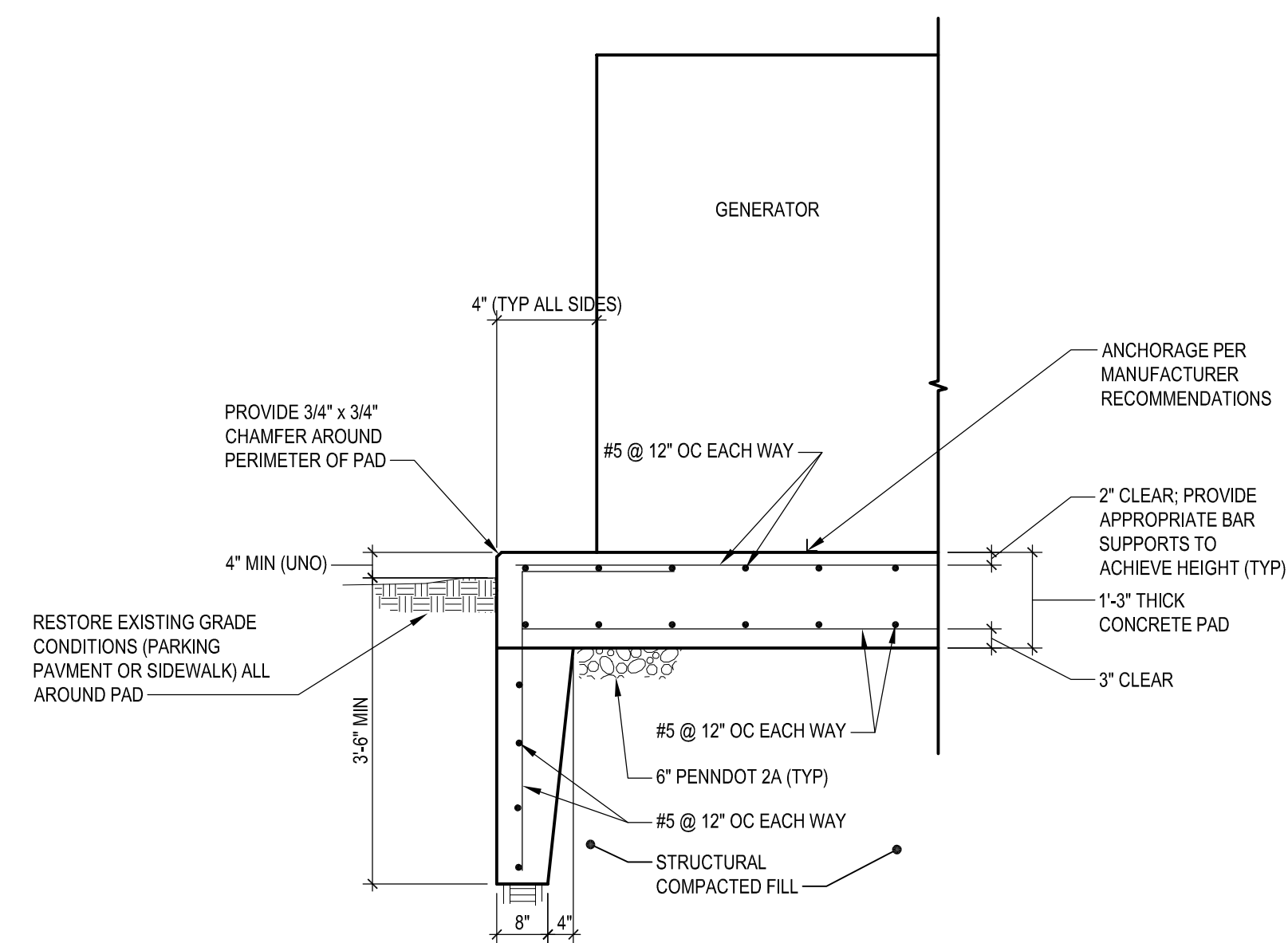
NOTES:

- A. SERVICE DUCT BANK SHALL CONSIST OF FOUR 4" CONDUITS, TWO ACTIVE, TO SPARE, GENERATOR DUCT BANK SHALL CONSIST OF FOUR 4" CONDUITS FOR GENERATOR POWER, ANCILLARY POWER, CONTROLS, AND SPARE.
- B. CONTRACTOR SHALL UTILIZE PVC COATED STEEL CONDUIT FOR ALL HORIZONTAL AND VERTICAL BENDS. GROUND EXPOSED RACEWAY ENTERING ENCLOSURES OR AT RISE POLES AS REQUIRED BY THE NEC UTILIZING INSULATED THROAT GROUNDING TYPE BUSHING.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DUCT BANK INSTALLATION WITH UNDERGROUND INSTALLATION OF PIPING, UTILITY LINES, ETC FROM OTHER TRADES. ADJUST ROUTING OF DUCT BANKS AS NECESSARY TO AVOID INTERFERENCE WITH WORK OF OTHER TRADES.

2 DIRECT BURIAL DUCT BANK DETAIL
NOT TO SCALE



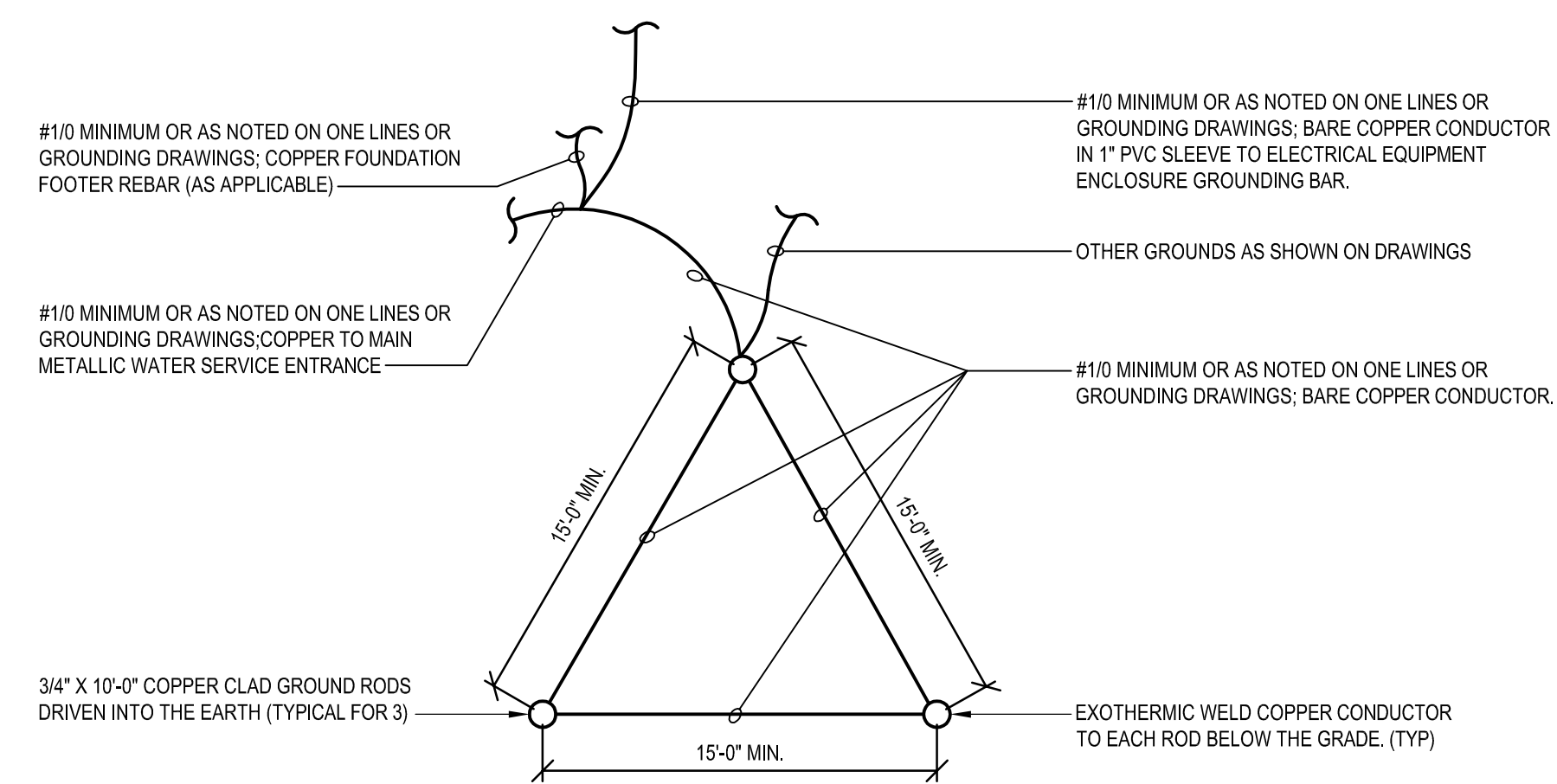
5 TYPICAL GROUND TEST WELL DETAIL
NOT TO SCALE



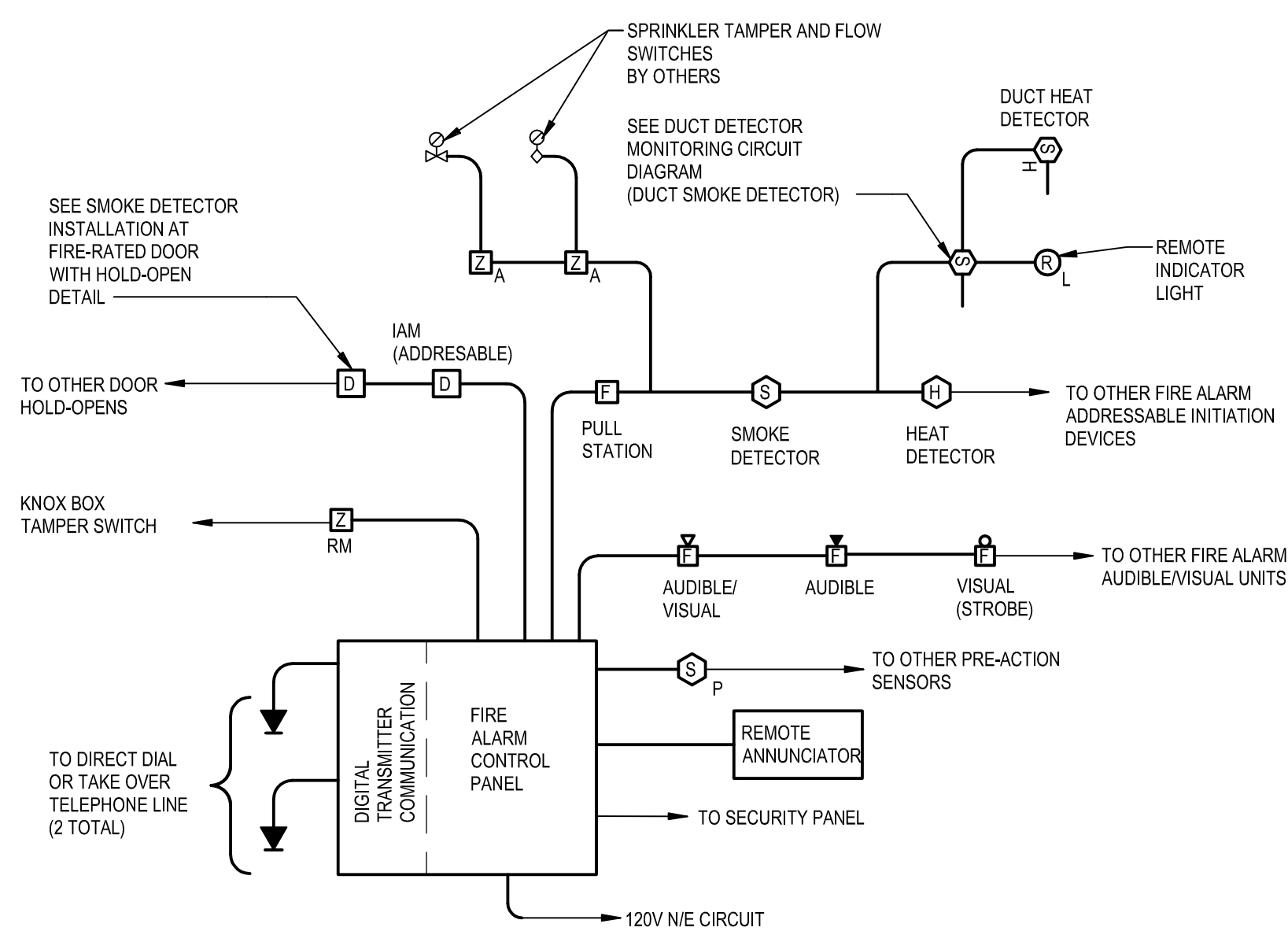
GENERATOR PAD NOTES:

1. GENERATOR FOUNDATION TO BE CAST-IN-PLACE (NON-SLIP BROOM FINISH).
2. CONTRACTOR TO SIZE GENERATOR FOUNDATION PER DETAIL AND PER THE DIMENSIONS OF THE BASIS OF DESIGN MANUFACTURER SELECTED. SHOULD THE CONTRACTOR PROVIDE GENERATOR WITH LARGER DIMENSIONS THAN BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE PROPERLY SIZED PAD AT NO ADDITIONAL COST.
3. CONCRETE TO ACHIEVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,500 PSI UNO. AIR ENTRAIN CONCRETE EXPOSED TO FREEZING WITH 6% AIR ± 1.5% W/C RATION - 0.42.
4. REINFORCED STEEL: ASTM A615-GRADE 60.

7 GENERATOR PAD DETAIL
NOT TO SCALE



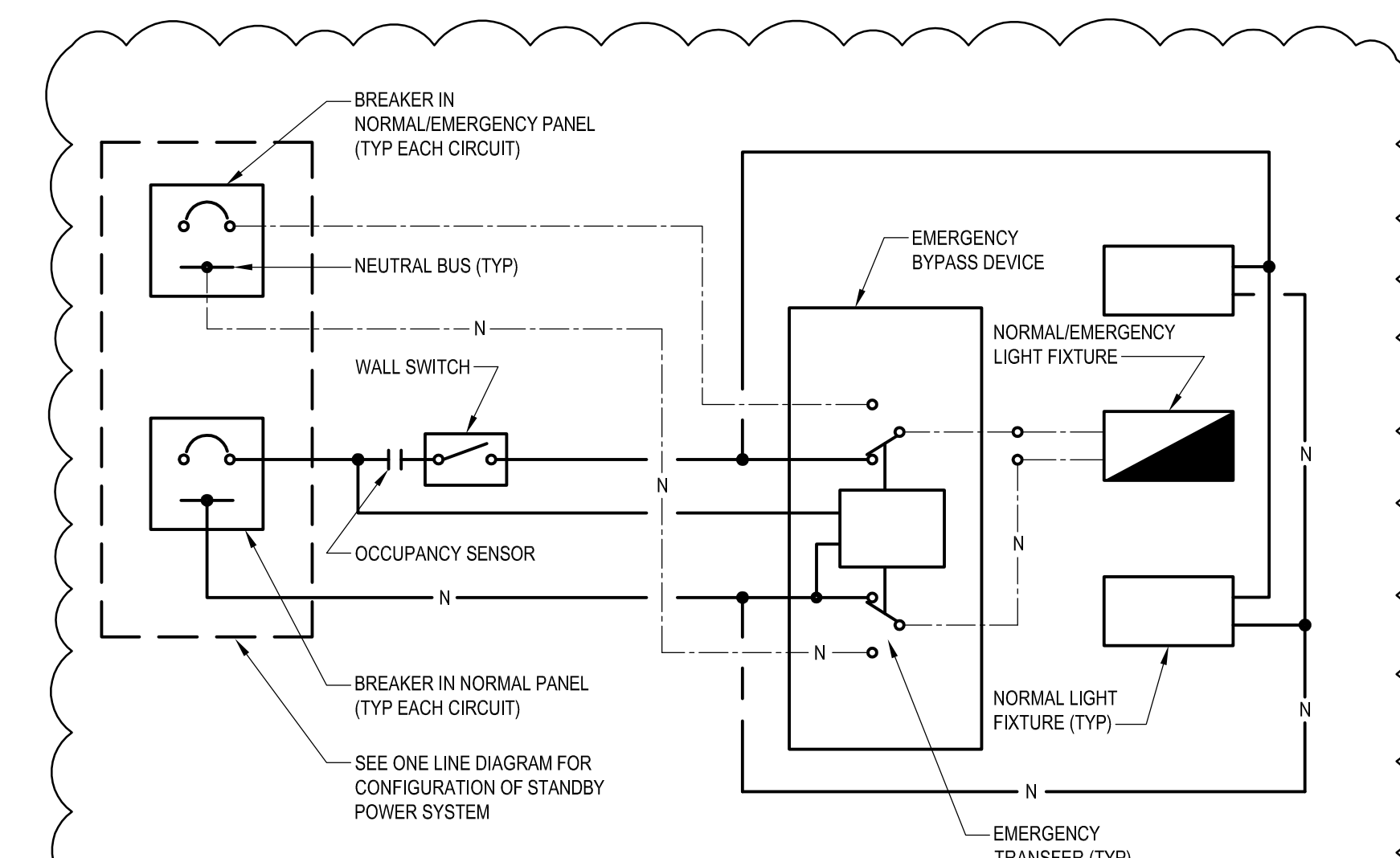
3 GROUNDING TRIAD DETAIL
NOT TO SCALE



FIRE ALARM NOTES:

1. NUMBER AND SIZE OF CONDUCTORS AND CONDUIT SHALL BE AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
2. CIRCUITING SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
3. DEVICES SHOWN ARE TYPICAL. SEE PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES.
4. TAMPER AND FLOW DETECTOR/SWITCH PROVIDED BY OTHERS WITH FINAL CONNECTION BY EC.

6 FIRE ALARM SYSTEM DIAGRAM
NOT TO SCALE



BYPASS DIAGRAM NOTES:

1. PROVIDE ONE (1) EMERGENCY BYPASS DEVICE PER NORMAL/EMERGENCY LIGHT FIXTURE.
2. OPERATION - NORMAL POWER: LIGHTING FIXTURE SUPPLIED BY NORMAL PANEL AND CONTROLLED BY WALL SWITCH AND/OR OCCUPANCY SENSOR.
3. BYPASS OPERATION: LIGHTING FIXTURE SUPPLIED BY GENERATOR THROUGH NORMAL/EMERGENCY PANEL AND INDEPENDENT OF WALL SWITCH POSITION AND/OR OCCUPANCY SENSOR CONTACT CLOSURE.
4. PROVIDE WIRING AS RECOMMENDED BY THE MANUFACTURER OF THE EMERGENCY BYPASS DEVICE. LAMP LEADS AND MULTIPLE SWITCHES/OCCUPANCY SENSOR ARE NOT SHOWN.
5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

9 N/E LIGHTING SWITCH BYPASS DIAGRAM
NOT TO SCALE

REVISIONS	DATE	DESCRIPTION
1	4/2/2023	ADJUDICANT NO.1
2	4/14/2023	ADJUDICANT NO.2

PROJECT NO: 77332-07
ISSUED DATE: 03/27/23
DRAWN BY: TEB
CHECKED BY: CLM
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SHEET TITLE: