

A1 EMERGENCY GENERATOR DETAIL
E0.03 NTS

NOTES:

1. MINIMUM 1 ft. ON ALL SIDES.

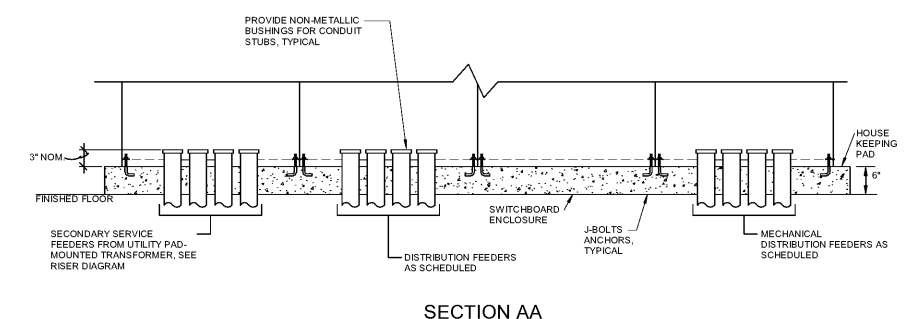
FOUNDATION DEPTH SHALL BE CALCULATED BY:
 $FD = \frac{W}{4 \times B \times L}$
 WHERE:
 FD = FOUNDATION DEPTH IN m (ft)
 W = TOTAL WEIGHT OF GENERATOR SET IN kg (lb)
 D = DENSITY OF CONCRETE, (2403 FOR METRIC, 150 FOR ENGLISH)
 B = FOUNDATION WIDTH IN m (ft)
 L = FOUNDATION LENGTH IN m (ft)

SUGGESTED CONCRETE MIXTURE BY VOLUME IS 1:2:3 OF CEMENT, SAND, AGGREGATE, WITH MAXIMUM 100 mm (4 in) SLUMP AND 28-DAY COMPRESSIVE STRENGTH OF 20 MPa (3000 psi).

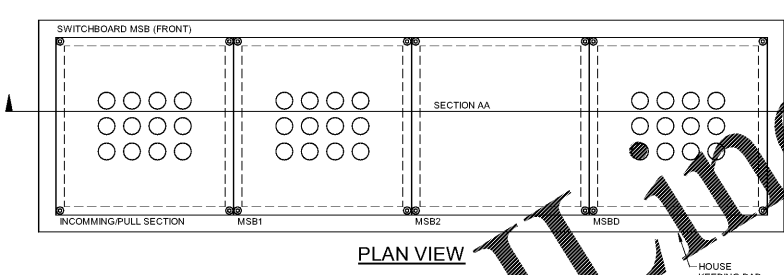
3. STUB UP CONDUITS FOR AUTOMATIC TRANSFER SWITCH CONTROLS, BLOCK HEATER, FEEDERS, ECT. LOCATION OF STUB-UPS WITHIN ENCLOSURE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. PROVIDE LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT FROM STUB-UPS TO CONNECTIONS WITHIN UNIT.

4. REINFORCE WITH No. 8 GAUGE STEEL WIRE MESH OR EQUIVALENT, HORIZONTALLY PLACE ON 150 mm (6 in.) CENTERS. AN ALTERNATIVE METHOD PLACES No. 6 REINFORCING BARS ON 300 mm (12 in.) CENTERS HORIZONTALLY. BARS SHOULD CLEAR FOUNDATION SURFACES 75 mm (3 in.) MINIMUM.

5. SEE SITE PLAN FOR GENERATOR ACCESSORY CIRCUITS.

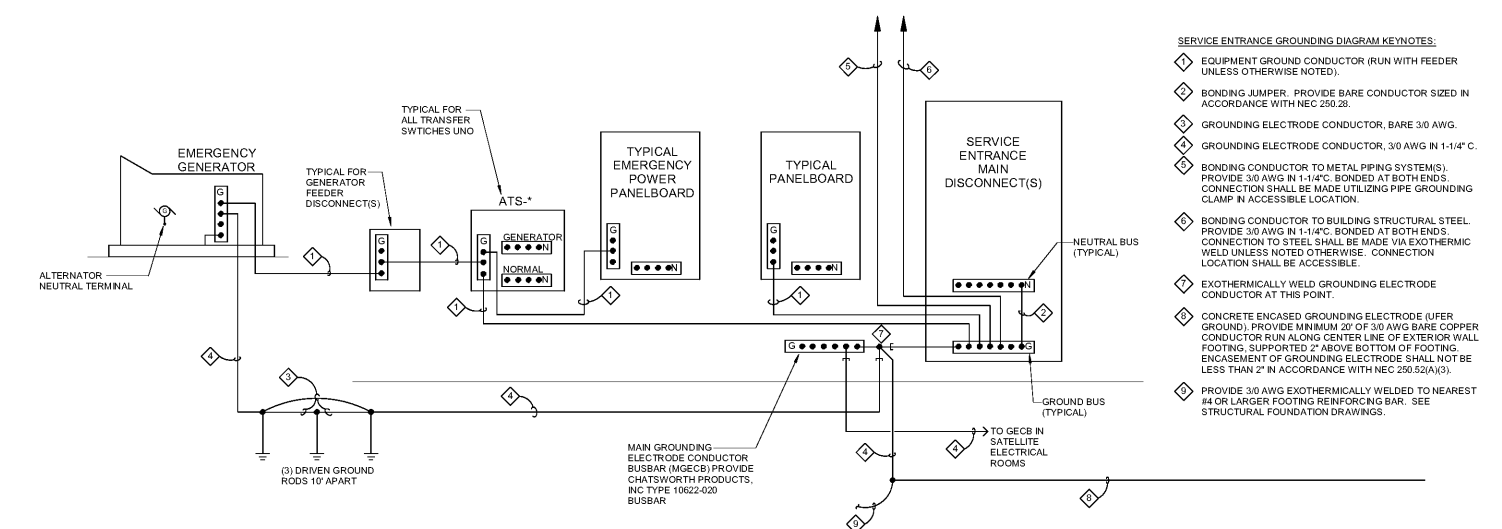


- DETAIL NOTES:**
- CONDUITS SHOWN ENTERING AND LEAVING SWITCHBOARD ARE FOR ILLUSTRATIVE PURPOSES ONLY. SEE RISER DIAGRAM AND SWITCHBOARD SCHEDULE FOR CONDUIT SIZES AND QUANTITIES.
 - COORDINATED ROUGH-IN REQUIREMENTS WITH SPECIFIC SWITCHBOARD MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - CONDUITS SHALL STUB UP INTO SWITCHBOARDS IN PERMITTED WINDOWS PER MANUFACTURER'S DRAWINGS UNDER SECTION CIRCUIT IS CONTINUING IN OR TERMINATING TO.
 - SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.



07 SWITCHBOARD ROUGH-IN DETAIL
E0.03 NTS

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A6 SERVICE ENTRANCE GROUNDING DIAGRAM
E0.03 1/8" = 1'-0"

- SERVICE ENTRANCE GROUNDING DIAGRAM KEYNOTES:**
- EQUIPMENT GROUND CONDUCTOR (RUN WITH FEEDER UNLESS OTHERWISE NOTED).
 - BONDING JUMPER: PROVIDE BARE CONDUCTOR SIZED IN ACCORDANCE WITH NEC 250.26.
 - GROUNDING ELECTRODE CONDUCTOR, BARE 3/0 AWG.
 - GROUNDING ELECTRODE CONDUCTOR, 3/0 AWG IN 1-1/4" C.
 - BONDING CONDUCTOR TO METAL PIPING SYSTEM(S): PROVIDE 3/0 AWG IN 1-1/4" C. BONDED AT BOTH ENDS. CONNECTION SHALL BE MADE UTILIZING PIPE GROUNDING CLAMP IN ACCESSIBLE LOCATION.
 - BONDING CONDUCTOR TO BUILDING STRUCTURAL STEEL: PROVIDE 3/0 AWG IN 1-1/4" C. BONDED AT BOTH ENDS. CONNECTION TO STEEL SHALL BE MADE VIA EXOTHERMIC WELD UNLESS NOTED OTHERWISE. CONNECTION LOCATION SHALL BE ACCESSIBLE.
 - EXOTHERMICALLY WELDED GROUNDING ELECTRODE CONDUCTOR AT THIS POINT.
 - CONCRETE ENCASED GROUNDING ELECTRODE (IFER GROUND): PROVIDE MINIMUM 20' OF 3/0 AWG BARE COPPER CONDUCTOR RUN ALONG CENTER LINE OF EXTERIOR WALL FOOTING, SUPPORTED 2" ABOVE BOTTOM OF FOOTING. ENCASEMENT OF GROUNDING ELECTRODE SHALL NOT BE LESS THAN 2" IN ACCORDANCE WITH NEC 250.52(A)(3).
 - PROVIDE 3/0 AWG EXOTHERMICALLY WELDED TO NEAREST #4 OR LARGER FOOTING REINFORCING BAR. SEE STRUCTURAL FOUNDATION DRAWINGS.

POWER RISER DIAGRAM DETAILS

E0.03

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ISSUE DATE
10.24.19

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