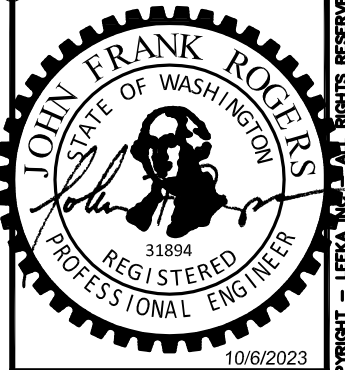


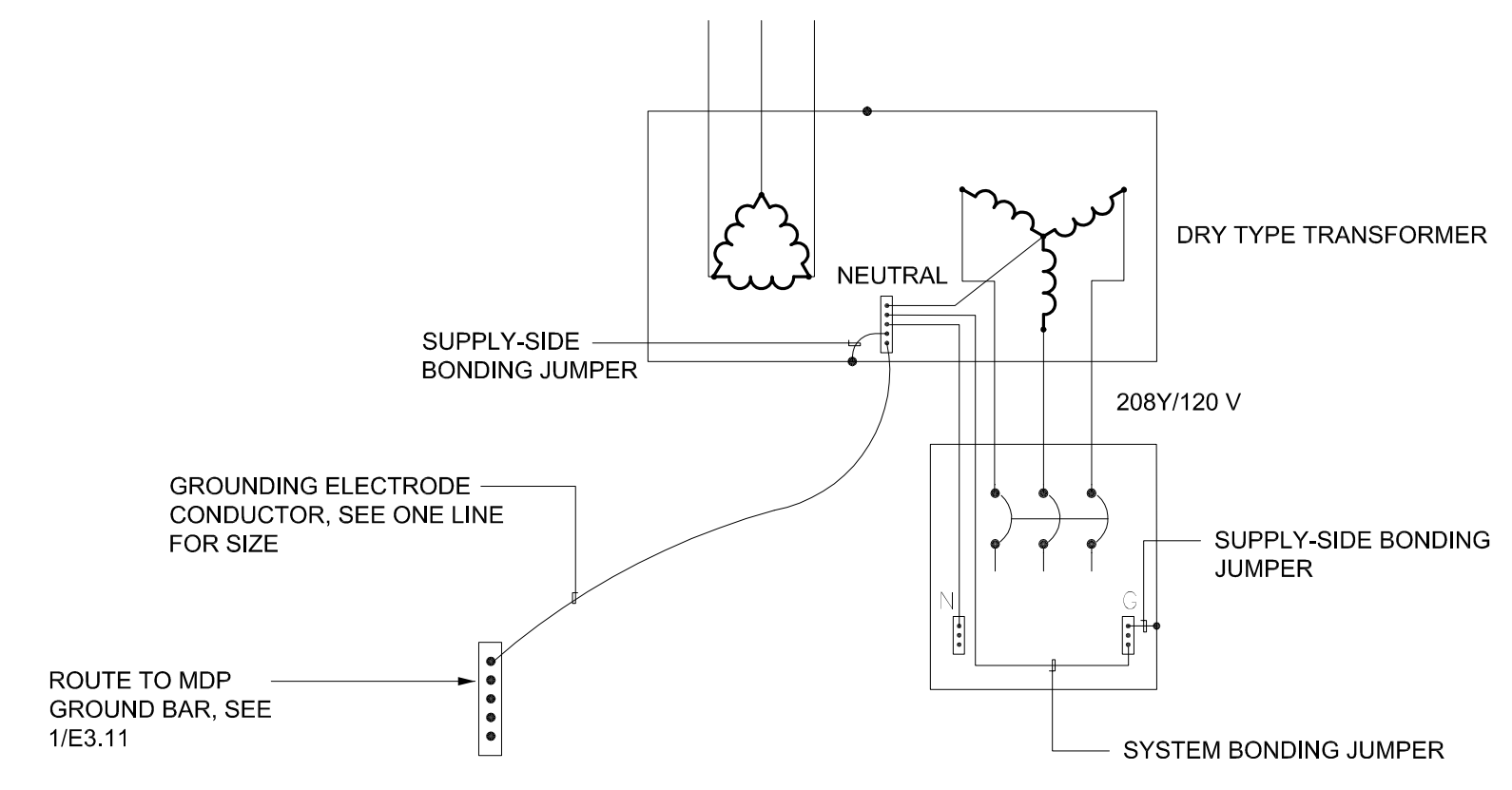
REVISED  
4:13 pm, Oct 06, 2023



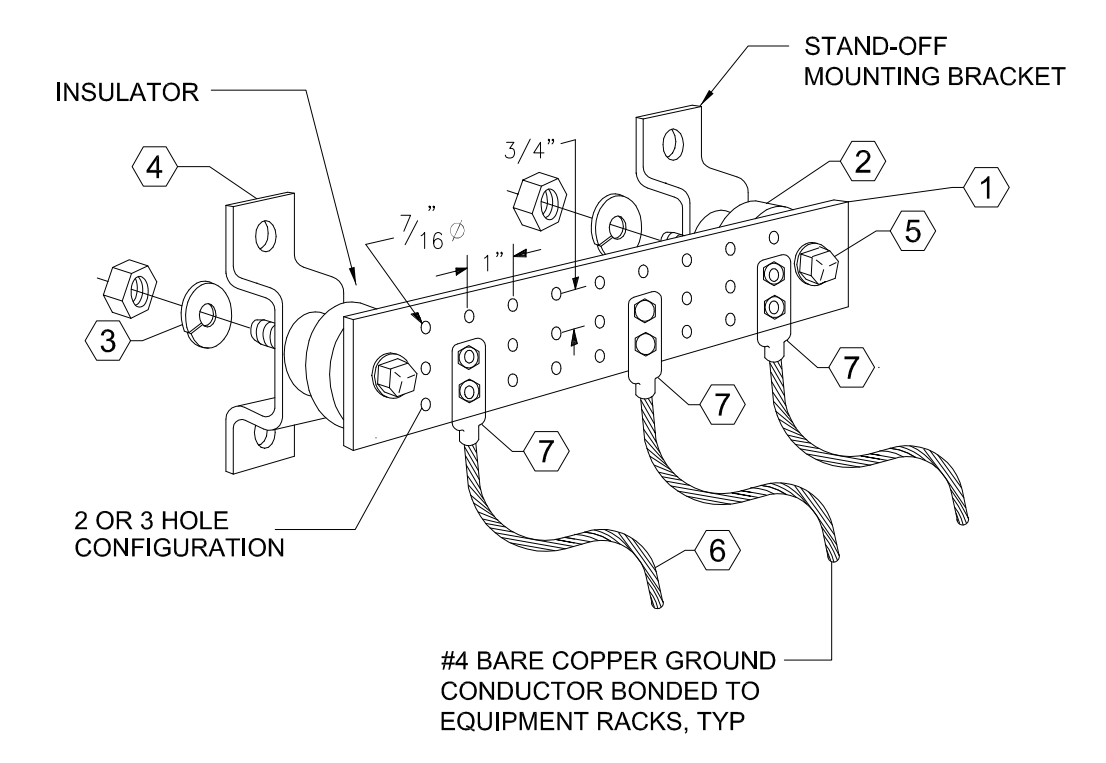
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Tenant Improvement  
ESD112  
Mental Health Facility Phase II  
2400 NE 65th Ave. Vancouver WA.

- DETAIL 3 - NOTES:
- ① COPPER GROUND BAR, 1/4" X 4" X 12", HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
  - ② INSULATORS
  - ③ 5/8" LOCK WASHERS
  - ④ WALL MOUNTING BRACKET LAG BOLT TO WALL PLYWOOD
  - ⑤ 5/8-11 X 1" H.H.C.S.BOLTS
  - ⑥ 4/0 BARE COPPER GROUND CONDUCTOR TO MAIN SERVICE EQUIPMENT GROUND.
  - ⑦ 2 HOLE LUG, CPI, ERICO/CADWELD, SQUARE D OR APPROVED SUBSTITUTE



1 DETAIL - TRANSFORMER GROUNDING



2 DETAIL - GROUND BUS BAR

VOLTAGE DROP										
Wire Gauge	20A 120V 1-phase	20A 208V 1-phase	20A 277V 1-phase	20A 480V 1-phase	20A 208V 3-phase	20A 480V 3-phase	30A 120V 1-phase	30A 208V 1-phase	30A 480V 1-phase	30A 480V 3-phase
#12 cu	L <90'	L <155'	L <200'	L <360'	L <180'	L <420'	L <95'	L <165'	L <385'	L <445'
#10 cu	91' < L <145'	156' < L <250'	201' < L <335'	361' < L <580'	181' < L <290'	421' < L <670'	96' < L <150'	166' < L <265'	386' < L <615'	446' < L <710'
#8 cu	148' < L <230'	251' < L <400'	336' < L <530'	581' < L <925'	291' < L <460'	671' < L <1065'	151' < L <244'	266' < L <424'	616' < L <978'	711' < L <1129'
#6 cu	231' < L <367'	401' < L <635'	531' < L <846'	926' < L <1465'	461' < L <734'	1066' < L <1693'				

General Notes:  
1 FOR 3% MAXIMUM VOLTAGE DROP ON 20A AND 30A SINGLE AND THREE PHASE HOME-RUN CIRCUITS, UTILIZE THE FOLLOWING TABLE  
2 L DENOTES LENGTH OF HOME-RUN (COPPER WIRE)