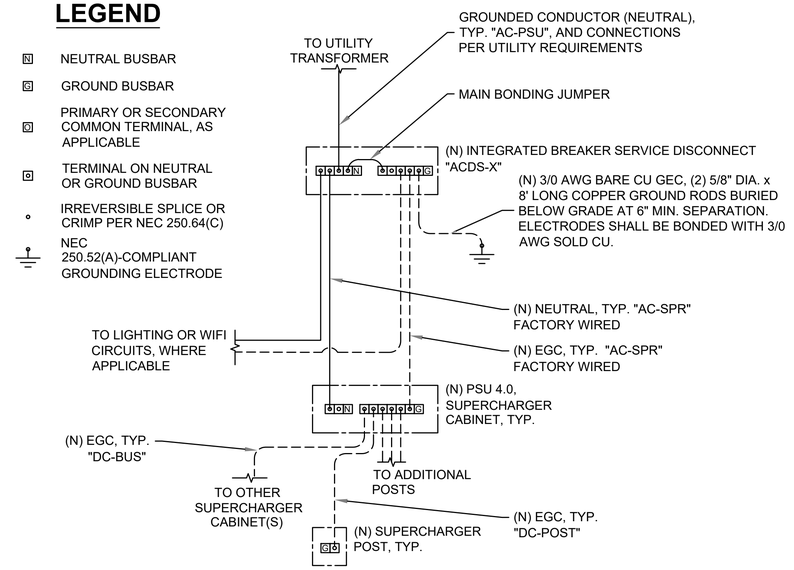
NOTES

- REFER TO ONE-LINE DIAGRAM FOR SPECIFIC CIRCUIT IDENTIFIERS BETWEEN EQUIPMENT.
- REFER TO AC & DC CIRCUIT SCHEDULES FOR NEUTRAL/GROUND SIZING PER CIRCUIT.

LEGEND

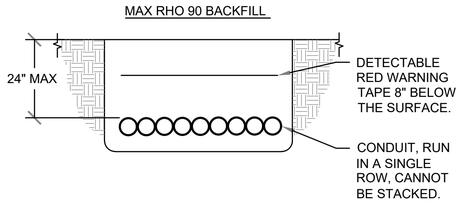
- NEUTRAL BUSBAR
- GROUND BUSBAR
- PRIMARY OR SECONDARY COMMON TERMINAL, AS APPLICABLE
- TERMINAL ON NEUTRAL OR GROUND BUSBAR
- IRREVERSIBLE SPLICE OR CRIMP PER NEC 250.64(C)
- NEC 250.52(A)-COMPLIANT GROUNDING ELECTRODE



B GROUNDING DIAGRAM
E001.1208 GROUNDING DIAGRAM - PSU WITH SWITCHBOARD RA
NTS

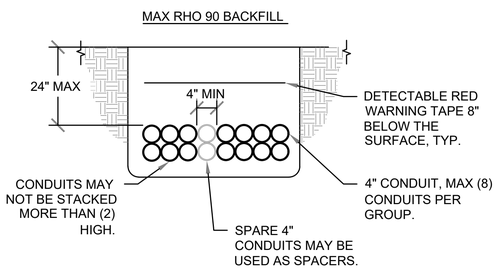
TRENCHING NOTES

- THE TRENCH DESIGNS FOR ALL VEHICLE CHARGING CIRCUITS REQUIRING RHO VALUES ARE THE RESULT OF A THERMAL ANALYSIS OF THE CONDUCTORS UNDER LOAD. FOR PROPER PROTECTION THEY MUST BE FOLLOWED.
- APPROVED BACKFILL REQUIRES DOCUMENTATION THAT SPECIFIES TESTED RHO VALUE. USE THE SPECIFIED BACKFILL LISTED BELOW OR TEST NATIVE SOIL CONDITIONS TO CONFIRM MAX DEFINED RHO VALUES. MINIMUM 2" OF APPROVED BACKFILL COVERAGE AROUND CONDUITS REQUIRED.
- RHO 60 BACKFILL - CONCRETE BACKFILL WITH MIN 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI MUST BE USED TO ACHIEVE MAX RHO 60.
- RHO 90 BACKFILL - LOW STRENGTH FLUIDIZED THERMAL (SLURRY) BACKFILL WITH MIN 28 DAY COMPRESSIVE STRENGTH OF 150 PSI MUST BE USED TO ACHIEVE MAX RHO 90.
- RHO 120 BACKFILL - NATIVE SOILS/SAND.
- FOR TRENCHES WITH MIXED CIRCUIT TYPES, APPLY THE CONDUIT SPACING FOR THE CIRCUIT TYPE WITH THE LARGER SPACING REQUIREMENT.
- CONDUIT ARE PERMITTED TO HAVE GREATER COVER THAN SPECIFIED FOR SHORT DISTANCES WHERE REQUIRED TO CROSS UNDER (E) UTILITY LINES, TO ALLOW FOR NEC REQUIRED MIN RADIUS FOR CONDUIT TURN-UPS INTO PAD-MOUNTED EQUIPMENT, TO AVOID (E) OBSTRUCTIONS, ETC.
- OUTSIDE WALLS AND UNDERNEATH BOTTOM ROW OF CONDUIT SPACING REQUIRED FOR ALL CONFIGURATIONS.
- IF NO CONDUIT RACKS AVAILABLE, CONTRACTOR MAY USE HORIZONTAL AND VERTICAL CONDUITS OR STAKES TO ACHIEVE THE SPACING REQUIRED.



DC-BUS

D "DC-BUS" CIRCUITS TRENCH - MAX RHO 90
E001.1201 DC-BUS CIRCUITS TRENCH - MAX RHO 90 RA
NTS



AC-PSU

C "AC-PSU" CIRCUIT TRENCH - 4" CONDUITS
NTS

PSU INTEGRAL BREAKER			
EATON PD-3 THERMAL-MAG TRIP UNIT (600A TRIP)	EATON LGH3 THERMAL-MAG TRIP UNIT (600A TRIP)	SQUARE D LJL W/ U31 TRIP UNIT (600A TRIP)	ABB TMAX XT5 TRIP UNIT (600A TRIP)
INSTANTANEOUS (Ii): 5 (3000A)	INSTANTANEOUS (Ii): 5 (3000A)	LOW (Ii): 5 (3000A)	INSTANTANEOUS (Ii): (3000A)

NOTE: CONTRACTOR TO VERIFY BREAKER MODEL IN FIELD AND USE THE CORRESPONDING BREAKER SETTINGS TABLE. IF THE BREAKER MODEL DOES NOT MATCH EITHER TABLE, VERIFY SETTINGS WITH ELECTRICAL ENGINEER OF RECORD.

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Site Development for

2501 Broadway Avenue - Alexandria, Louisiana 71302

PROJECT NO: 26011
DRAWN: DJH
CHECKED: WAT
DATE: APRIL 2026
LAST REV:

E1.03

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