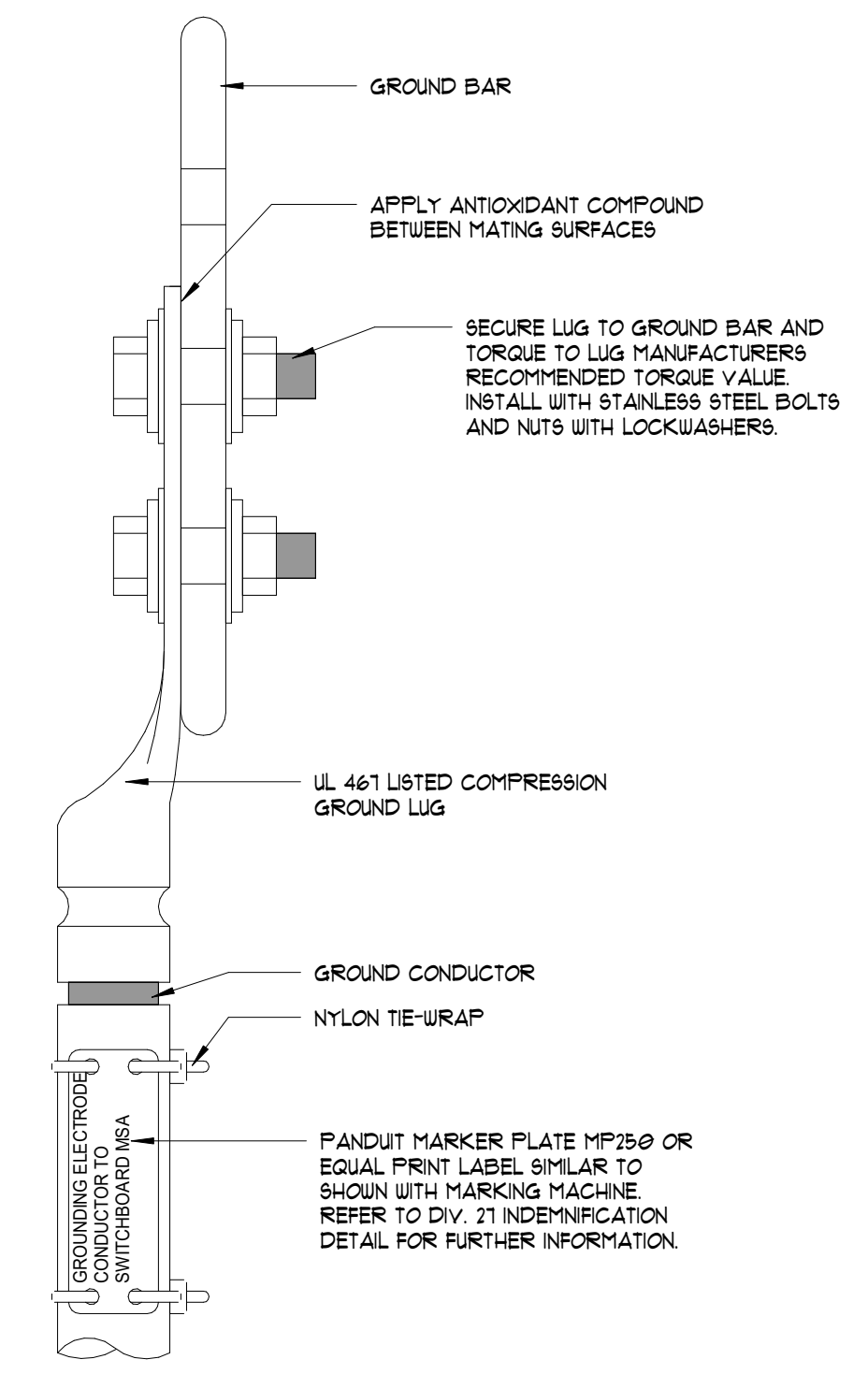
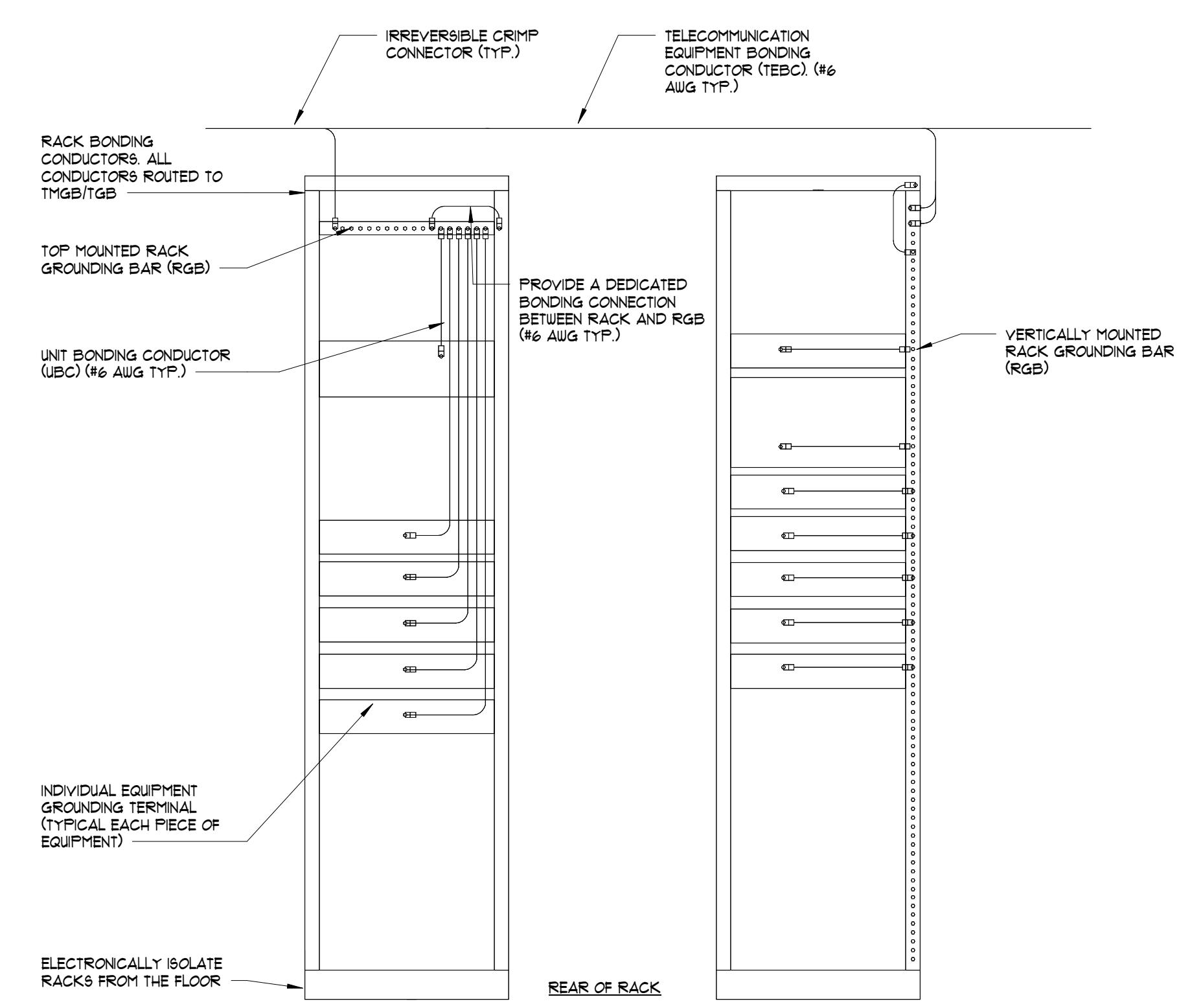


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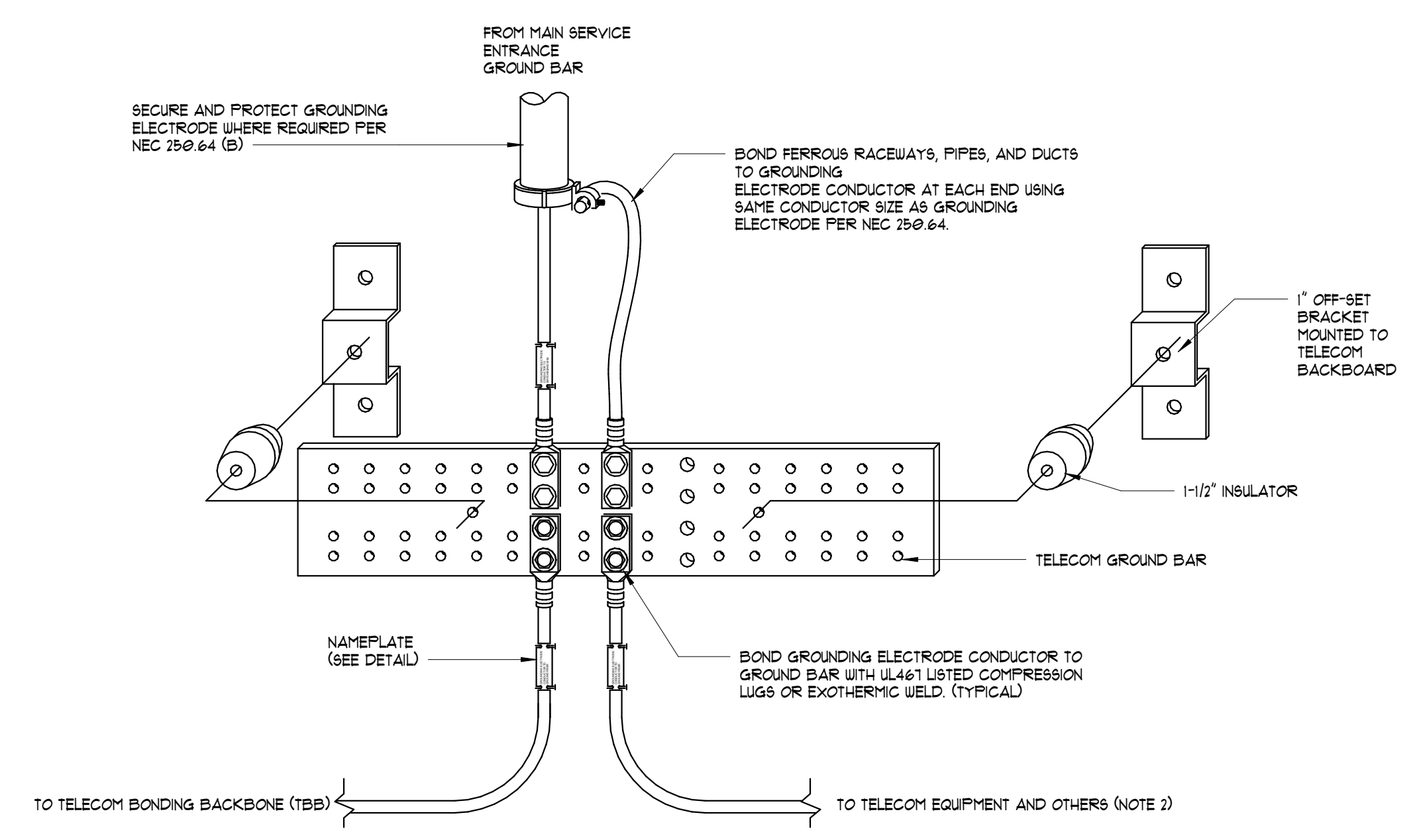


3 GROUNDING DETAIL - 2-HOLE COMPRESSION LUG GROUND CONNECTOR
 NOT TO SCALE



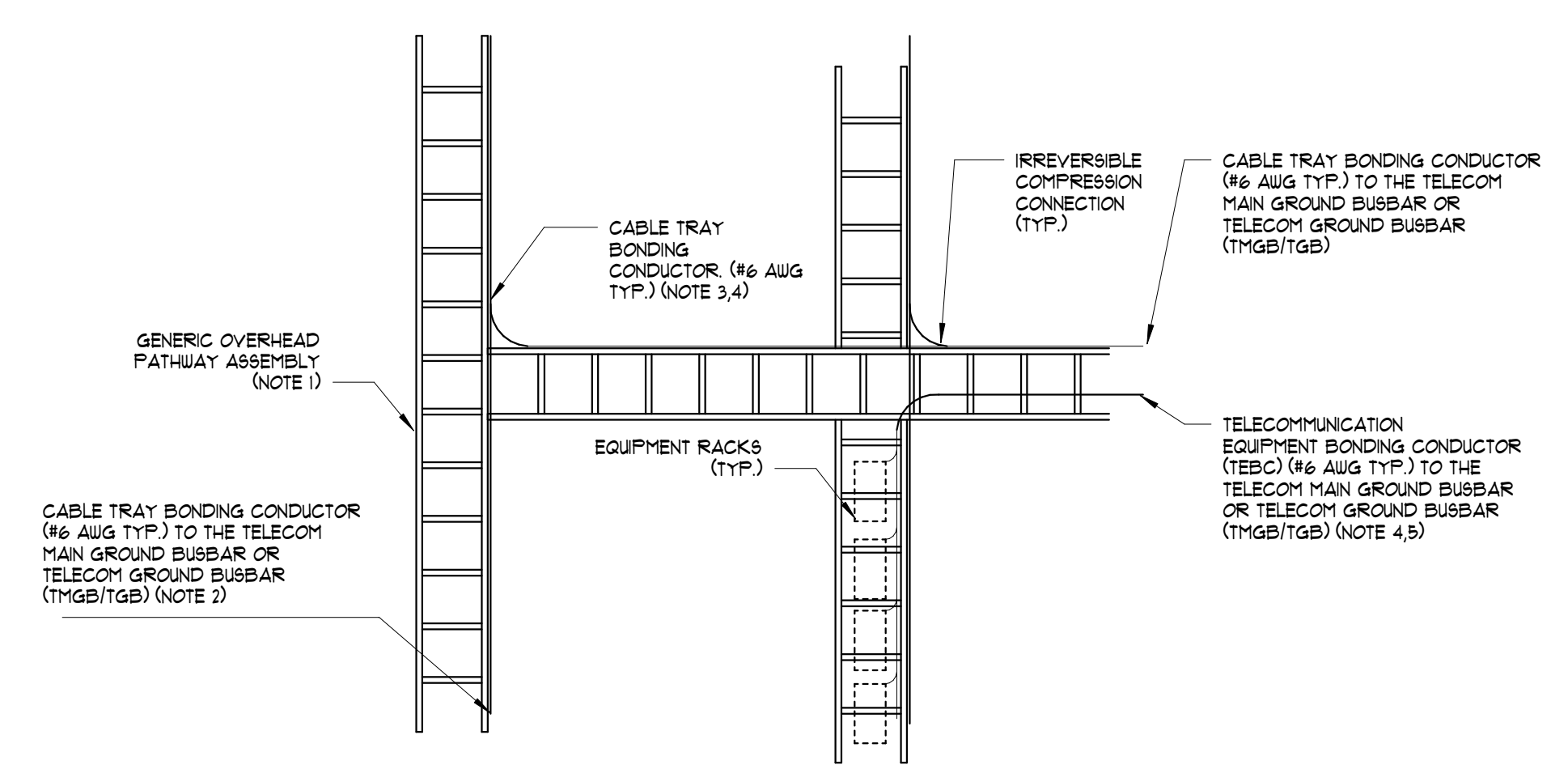
- NOTES (THIS DETAIL ONLY)
- TELECOMMUNICATIONS CONTRACTOR TO FURNISH AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC), RACK BONDING CONDUCTOR (RBC), RACK GROUNDING BUSBAR (RGR), UNIT BONDING CONDUCTOR (UBC), AND CABLE TRAY BONDING JUMPER.
 - RGB MAY BE EITHER A HORIZONTAL UNIT OR A FULL-HEIGHT VERTICAL UNIT. RGR SHALL BE COPPER TIA COMPLIANT BAR FOR TELECOM USE. THE USE OF AL PANELBOARD SCREW TYPE GROUND BARS ARE NOT PERMITTED.
 - ROUTE TEBC THROUGH CABLE TRAY SYSTEM TO EQUIPMENT RACK LOCATION. MAINTAIN AN 8" MINIMUM BEND RADIUS ON THE TEBC. TEBC MAY ALSO BE ROUTED 2' BELOW THE CABLE TRAY OR 2' OFF TO THE SIDE OF THE CABLE TRAY AND SHALL BE SUPPORTED AT A 3' MAXIMUM SPACING.
 - UBC CABLES SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. UTILIZE 6 AWG MINIMUM.

1 GROUNDING DETAIL - EQUIPMENT RACK GROUNDING
 NOT TO SCALE



- NOTES (THIS DETAIL ONLY)
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL EACH TELECOM MAIN GROUND BUSBAR (TMGB) OR TELECOM GROUND BUSBAR (TGB). BUSBAR SHALL BE PER-DRILLED COPPER OR ELECTRON-PLATED DEVICE OF ONE-PIECE CONSTRUCTION WITH 0.4375" DIAMETER HOLES (MIN) ON 0.75" CENTERS. BUSBAR SHALL HAVE ENOUGH PRE-DRILLED HOLES TO ACCOMMODATE THE REQUIRED QUANTITY OF LONG BARREL, TWO-HOLE COMPRESSION LUGS. MINIMUM SIZE SHALL BE 1.5" x 4" x 0.25" (LxWxD) FOR TMGB, 1.2" x 0.25" FOR TGB. SIZE BUSBAR LENGTH TO ACCOMMODATE FUTURE SYSTEM EXPANSION. PLACE BUSBAR A MINIMUM OF 36" FROM ANY ACTIVE ELECTRONICS. BUSBAR SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
 - REFER TO GROUNDING FUNCTIONAL FOR ADDITIONAL DETAILS AND ITEMS TO BE BONDED TO THE TMGB/TGB.

4 GROUNDING DETAIL - TELECOM MAIN GROUNDING BAR (TMGB)
 NOT TO SCALE



- NOTES (THIS DETAIL ONLY)
- DETAIL IS TYPICAL FOR LADDER RACK, CABLE TRAY, AND BASKET TRAY.
 - PROVIDE A SECONDARY CONNECTION TO THE TMGB/TGB AT THE FURTHEST END OF THE CABLE TRAY FROM THE PRIMARY CONNECTION. THIS CONNECTION MAY BE EXCLUDED FOR TRAY SYSTEMS SHORTER THAN 6'.
 - TELECOMMUNICATIONS CONTRACTOR TO FURNISH AND INSTALL A BONDING CONDUCTOR FROM TMGB OR TGB TO EACH LEVEL OF THE LADDER RACK OR CABLE BASKET SYSTEM.
 - EACH INDEPENDENT SECTION OF THE LADDER RACK ASSEMBLY SHALL BE BONDED TOGETHER WITH A CABLE TRAY BONDING JUMPER UNLESS LISTED AUTOMATICALLY BONDING HARDWARE IS USED TO CONNECT THE SECTIONS TOGETHER.
 - MAINTAIN AN 8" MINIMUM BEND RADIUS ON THE TEBC. TEBC MAY ALSO BE ROUTED 2' BELOW THE CABLE TRAY OR 2' OFF TO THE SIDE OF THE CABLE TRAY AND SHALL BE SUPPORTED AT A 3' MAXIMUM SPACING.

2 GROUNDING DETAIL - CABLE TRAY GROUNDING
 NOT TO SCALE

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NO.	DATE	ISSUANCE / REVISIONS
0001/0118	10/05/2018	ISSUE FOR PERMIT
0001/0218	03/20/2018	ISSUE FOR CONSTRUCTION DOCUMENTS
0001/0318	03/20/2018	ISSUE FOR PERMIT AND R.O.