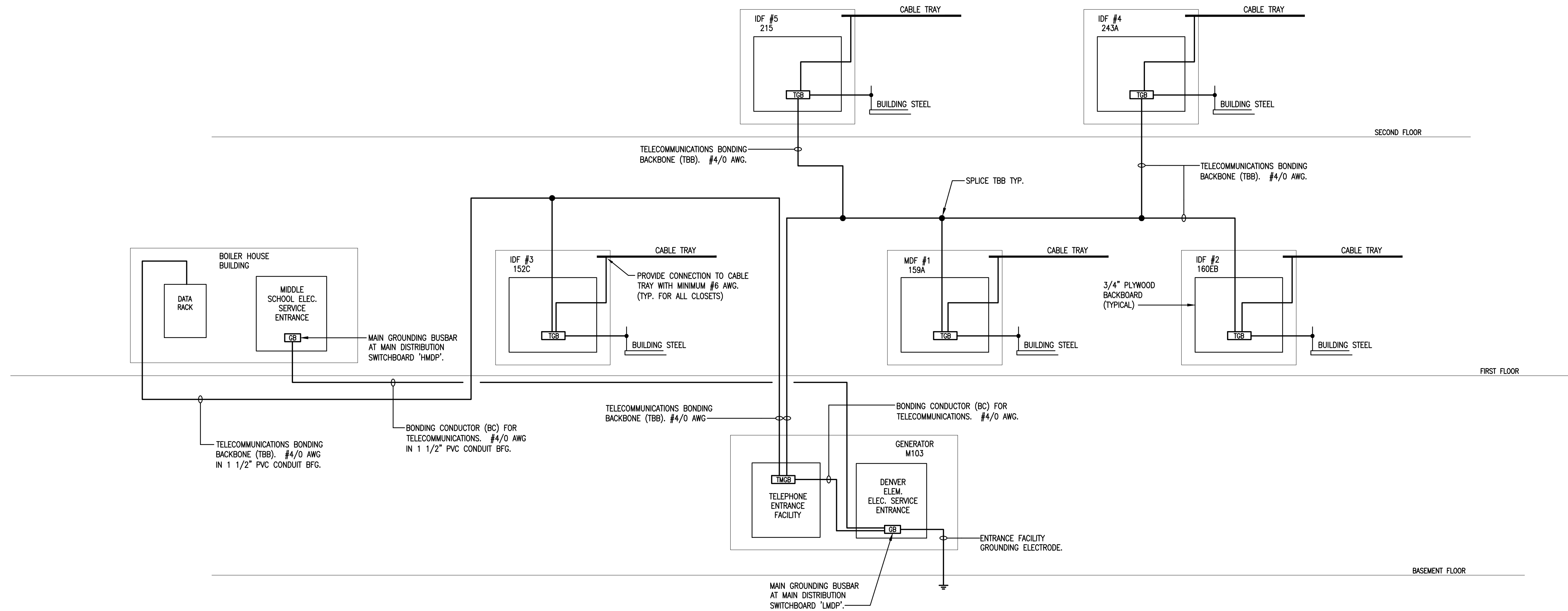


DATA/TELEPHONE RISER DIAGRAM

NO SCALE

NOTES:

1. ALL FIBER OPTIC BACKBONE CABLES SHALL BE ARMORED TYPE. REFER TO SPECIFICATIONS.
2. REFER TO SPECIFICATIONS FOR SPECIFIC INSTALLATION PROCEDURES.
3. PROVIDE ALL REQUIRED PUNCH DOWN BLOCKS, CROSS CONNECTS AND FIBER TERMINATIONS. TERMINATE ALL FIBER AND COPPER CABLES.



TELECOMMUNICATIONS GROUNDING AND BONDING DIAGRAM

NO SCALE

- TMBB** - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR - SIMILAR TO ALPHA EQUIPMENT #A890109, 4" X 12" ISOLATED WALL MOUNTED GROUND BAR ASSEMBLY, CONNECT TO TELECOMMUNICATIONS BONDING CONDUCTOR.
- TGB** - TELECOMMUNICATIONS GROUNDING BUSBAR - SIMILAR TO ALPHA EQUIPMENT #A890109, 4" X 12" ISOLATED WALL MOUNTED GROUND BAR ASSEMBLY, CONNECT TO TELECOMMUNICATIONS BONDING BACKBONE.
- GB** - ELECTRICAL EQUIPMENT GROUNDING BUSBAR.

GROUNDING NOTES:

1. EACH TGB THAT REACHES A TGB LOCATION MUST BE BONDED TO THE TGB.
2. A TMBB IS DIRECTLY BONDED TO THE ELECTRICAL SERVICE GROUND. ALL TBBs END ON THIS BUSBAR.
3. EACH TBB SHALL BE A CONTINUOUS CONDUCTOR FROM THE TMBB TO THE FARTHEST TGB. INTERMEDIATE TGBs SHOULD BE SPICED TO THE TBB WITH A SHORT BONDING CONDUCTOR.
4. EACH TGB IS ALSO DIRECTLY BONDED TO BUILDING STRUCTURAL STEEL, CABLE TRAY AND OTHER PERMANENT METALLIC SYSTEMS, IF CLOSE AND ACCESSIBLE WITH MINIMUM #6 AWG.
5. THE TGB AND TBB MUST BE VISIBLY LABELED AND PHYSICALLY SECURED.
6. EACH OF THE GROUNDING BUSBARS IS USED BY TELECOMMUNICATIONS EQUIPMENT AND CABLE INSTALLERS AS THE LOCAL APPROVED GROUND.
7. ALL WIRING, BUSBAR KITS, AND HARDWARE SHALL BE PROVIDED FOR A CONTINUOUS SYSTEM. MOUNT BUSBAR LOW ON PLYWOOD BACKBOARD.
8. PROVIDE WIRING FROM EQUIPMENT RACK TO BUSBAR.