

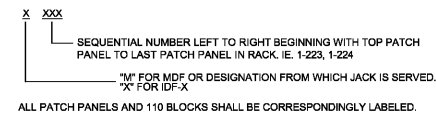
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DATA/VOICE CABLING LEGEND

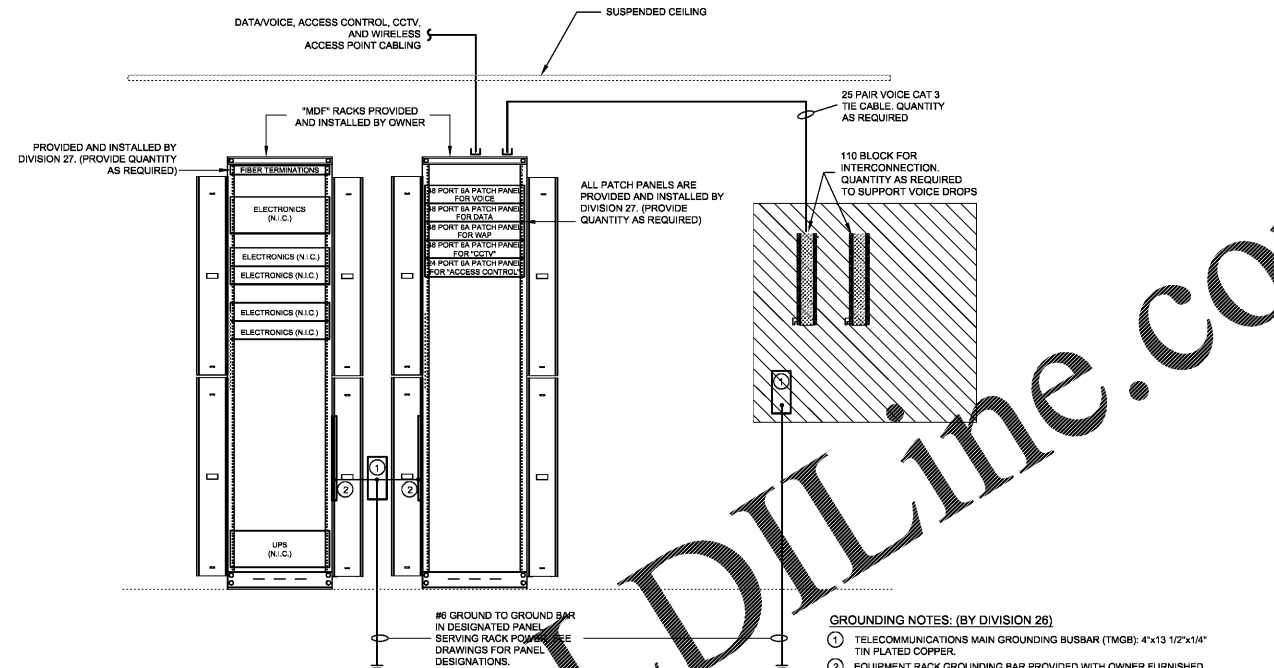
- ▷ WALL MOUNTED (UNLESS NOTED OTHERWISE ON DRAWINGS) CATEGORY 6A DATA OUTLET AT 4'-18" AFF. ALL OUTLET LOCATIONS SHALL HAVE TWO(2) CATEGORY 6A CABLE DROPS AND TWO(2) CATEGORY 6A JACKS. NUMBER WHERE SHOWN DESIGNATES QUANTITY OF DROPS OTHER THAN TWO.
- ▷ WALL MOUNTED (UNLESS NOTED OTHERWISE ON DRAWINGS) CATEGORY 6A DATA OUTLET AT 4'-6" AFF. ALL OUTLET LOCATIONS SHALL HAVE TWO(2) CATEGORY 6A CABLE DROPS AND TWO(2) CATEGORY 6A JACKS. NUMBER WHERE SHOWN DESIGNATES QUANTITY OF DROPS OTHER THAN TWO.
- ▷ "WAP", SURFACE MOUNTED BOX BY DIVISION 27 LOCATED AT STRUCTURE (UNLESS NOTED OTHERWISE ON DRAWINGS) CATEGORY 6A DATA OUTLET. ALL OUTLET LOCATIONS SHALL HAVE TWO(2) CATEGORY 6A CABLE DROPS AND TWO(2) CATEGORY 6A JACKS. NUMBER WHERE SHOWN DESIGNATES QUANTITY OF DROPS OTHER THAN TWO. PROVIDE TWO(2) MINIMUM OF 20'-0" CATEGORY 6A PATCH CORDS TO BE CONNECTED FROM JACK DIRECTLY TO WIRELESS ACCESS DEVICE.
- ▷ "DOOR ACCESS" WALL MOUNTED (UNLESS NOTED OTHERWISE ON DRAWINGS) ENHANCED CATEGORY 6A DATA OUTLET LOCATED 0' ABOVE CEILING. ALL OUTLET LOCATIONS SHALL HAVE TWO(2) ENHANCED CATEGORY 6A CABLE DROPS AND TWO(2) ENHANCED CATEGORY 6A JACKS. NUMBER WHERE SHOWN DESIGNATES QUANTITY OF DROPS OTHER THAN TWO. PROVIDE TWO(2) MINIMUM OF 6'-0" CATEGORY 6A PATCH CORD TO BE CONNECTED FROM JACK DIRECTLY TO DOOR ACCESS CONTROLLER.
- ▷ "CCTV CAMERA" SURFACE WALL MOUNTED BOX BY DIVISION 27. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH IN (UNLESS OTHERWISE NOTED) CATEGORY 6A DATA OUTLET. ALL OUTLET LOCATIONS SHALL HAVE TWO(2) CATEGORY 6A CABLE DROPS AND TWO(2) CATEGORY 6A JACKS. NUMBER WHERE SHOWN DESIGNATES QUANTITY OF DROPS OTHER THAN ONE. PROVIDE TWO(2) MINIMUM OF 20'-0" CATEGORY 6A PATCH CORD TO BE CONNECTED FROM JACK DIRECTLY TO CCTV CAMERA.

GENERAL NOTES: (DATA/VOICE CABLING)

1. ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
2. ALL CABLING SHALL BE BUNDLED AND SUPPORTED BY STRUCTURE ABOVE OR BY WALL AT EVERY 4-5 FEET. SUPPORT OF CABLING BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE. PROVIDE D-RINGS, J-HOOKS OR OTHER SUPPORT MEANS AS PER EIA/TIA STANDARDS.
3. ALL CABLING SHALL BE PLENUM RATED. OUTER JACKET ON CAT. 6A DATA AND VOICE CABLING SHALL BE BLUE. WIRELESS ACCESS SHALL BE GREEN. CAMERAS SHALL BE YELLOW.
4. ALL DATA OUTLET JACKS SHALL BE PROVIDED WITH THE FOLLOWING LABELING NOMENCLATURE:



5. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL VOICE CABLING AT TELEPHONE BACKBOARDS.
6. ALL DEVICE COLORS SHALL BE GREY. FACEPLATE SHALL BE STAINLESS STEEL FACEPLATE WITH LABEL FIELD AND KEYSTONE OPENING (QUANTITY OF KEYSTONE OPENINGS TO MATCH NUMBER OF DROPS). FACEPLATE SHALL BE HUBBELL SSFL OR EQUAL.
7. GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. AT EACH RACK LOCATION PROVIDE A 3/4" PLYWOOD BACKBOARD SIZED TO MATCH EQUIPMENT SIZES PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT. LOCATE 110 BLOCKS ON BACKBOARD.
8. TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.
9. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
10. ALL DATA/VOICE, WIRELESS ACCESS AND CAMERA CABLING SHALL BE CAT. 6A AS NOTED IN SPECIFICATIONS. (NO EXCEPTIONS).
11. PROVIDE CAT. 6A, FACTORY-BUILT, MANUFACTURED TESTED PATCH CORDS FOR EACH DATA DROP. PROVIDE 7' PATCH CORDS AT STATION END. PROVIDE PATCH CORDS AT RACK END (LENGTH AS REQUIRED). PATCH CORDS SHALL BE NON BOOTED.
12. INCLUDE IN BASE BID TEN(10) ADDITIONAL TELECOMMUNICATIONS DROPS TO BE LOCATED BY OWNER/ENGINEER. INCLUDE ALL LABOR AND TESTING FOR A COMPLETE INSTALLATION.
13. TIE CABLE SHALL BE CAT-3 RATED.
14. DATA RACKS (N.I.C.), U.P.S.(N.I.C.), SWITCHES(N.I.C.), PATCH PANELS AND FIBER TERMINATION CABINETS ARE PROVIDED AND INSTALLED BY DIVISION 27 (QUANTITIES AS REQUIRED).
15. ALL DATA/VOICE CABLING SHALL BE LANDED ON STATION CABLE PATCH PANELS IN OWNER PROVIDED DATA RACK. SEE DETAIL PER THIS SHEET. DIVISION 27 IS RESPONSIBLE FOR ALL PATCHING AND TESTING OF CABLES.
16. ALL FIBER SHALL BE TERMINATED IN FIBER TERMINATION CABINET AND INSTALLED IN OWNER PROVIDED DATA RACK. SEE DETAIL PER THIS SHEET. DIVISION 27 IS RESPONSIBLE FOR ALL FIBER TESTING.
17. ANY DATA DROPS ROUTED IN UNDERGROUND CONDUIT SHALL BE UNDERGROUND DUCT RATED.
18. DURING SUBMITTAL PHASE, DATA/VOICE CABLING CONTRACTOR SHALL SUBMIT A CABLE ROUTING PLAN SHOWING PROPOSED CABLE ROUTING AND NOTE CABLE DISTANCES (DISTANCE TO INCLUDE SERVICE LOOPS). CABLE DISTANCES SHALL NOT EXCEED 300 FEET. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.

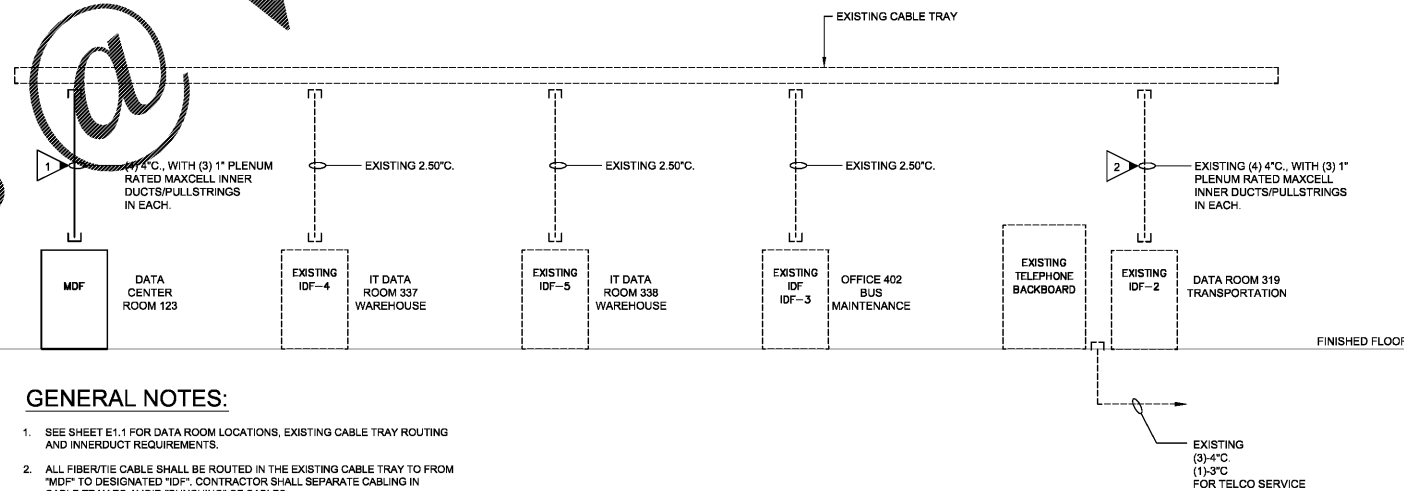


GROUNDING NOTES: (BY DIVISION 26)

- 1 TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB): 4"x13 1/2"x1/4" TIN PLATED COPPER.
- 2 EQUIPMENT RACK GROUNDING BAR PROVIDED WITH OWNER FURNISHED DATA RACK. GROUNDING OF DATA RACKS BY OWNER.
- 3 GROUNDING ASSEMBLIES FOR 1 AND 2 ABOVE SHALL INCLUDE:
 - TYPE 304 STAINLESS STEEL BRACKETS: 1/8" THICK
 - TYPE 304 STAINLESS STEEL FASTENERS
 - 2" INSULATED STANDOFFS
 - COPPER ALLOY LUGS
 - SOLDERLESS COPPER LONG BARREL COMPRESSION TYPE TERMINALS
 - SILICONE BRONZE BOLTS
 - SILICONE BRONZE MECHANICAL TYPE BONDING CONNECTORS

"MDF" DATA/VOICE AND INTEGRATED COMMUNICATIONS CABLING RISER

1
E5.2
SCALE: NOT TO SCALE



GENERAL NOTES:

1. SEE SHEET E1.1 FOR DATA ROOM LOCATIONS, EXISTING CABLE TRAY ROUTING AND INNERDUCT REQUIREMENTS.
2. ALL FIBER/TIE CABLE SHALL BE ROUTED IN THE EXISTING CABLE TRAY TO FROM "MDF" TO DESIGNATED "IDF". CONTRACTOR SHALL SEPARATE CABLING IN CABLE TRAY TO AVOID "BUNCHING" OF CABLES.

KEYED NOTES:

- 1 ONE (1) - 12 STRAND INDOOR/OUTDOOR DUCT RATED SM (OS2) FIBER "MDF" TO "IDF-2". ONE (1) - 25 PAIR CAT 3 TIE CABLE FROM "MDF" TO "IDF-2" TELEPHONE BACKBOARD.
- 2 UTILIZE EXISTING 4", WITH (3) 1" PLENUM RATED MAXCELL INNERDUCTS IN EACH.

2
E5.2
SCALE: NOT TO SCALE

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KEY PLAN:

REVISIONS:	
Date	Description

**CCSD
 I.T./TRAINING
 DEPARTMENT**

FOR
 COLUMBIA COUNTY SCHOOL DISTRICT

4395 RIVERWATCH PARKWAY
 EVANS, GA 30809

DRAWING TITLE	
COMMUNICATION RISER, NOTES AND DETAILS	
PROJECT NO.	20-04C
DATE	10/26/2020
DRAWN BY	JH
PAPER	24"x36"
ISSUE	CD
DRAWING NO.	
E5.2	