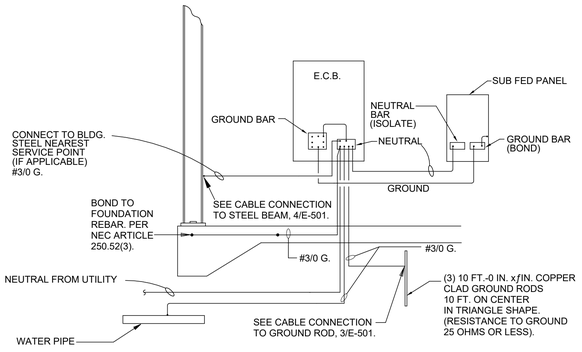
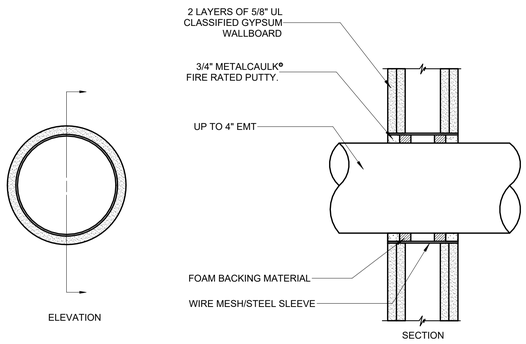
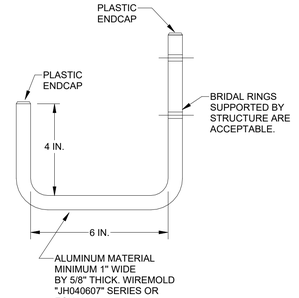


2 / E-501 SERVICE GROUNDING DETAIL
NO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

6 / E-501 DETAIL - GYPSUM WALLBOARD PENETRATION
NO SCALE



9 / E-501 J-HOOK DETAIL
NO SCALE

GENERAL NOTES: (DATA 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 JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE:
   D M XXX — XXX: JACK NUMBER; M: MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED; D: D OR V INDICATING VOICE OR DATA OUTLET.
   ALL PATCH PANELS AND 110 BLOCKS SHALL BE CORRESPONDINGLY LABELED.
3. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
4. REFER TO 1/8 IN. PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
5. GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6G, 3/4 IN. C. TO GROUND PLATE. PROVIDE 12 IN. CABLE RUNWAY SPANNING FROM TOP OF RACK TO WALL AND TURNED UP TO ABOVE DROP TILE CEILING IN ORDER TO ROUTE CABLE TO RACK. AT EACH RACK LOCATION, PROVIDE A 3/4IN.x4 FT.x8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.
6. 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.
7. REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
8. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
9. FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
10. CABLING FOR COMPUTER DATA SHALL BE ROUTED VIA J-HOOK SYSTEM. PROVIDE CONDUIT TO 6 IN. ABOVE ACCESSIBLE CEILING. BUNDLE CABLES, SLEEVE THROUGH CORRIDOR WALL USING 4 IN. C.
11. NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS, AND FIBER OPTIC PATCH CORDS ARE NOT IN CONTRACT.
12. REFER TO POWER SHEET, E-302, FOR ADDITIONAL INFORMATION.
13. SEE WIRE MANAGEMENT NOTES.

WIRE MANAGEMENT NOTES

NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL J-HOOK SYSTEM IN THE CORRIDORS WITH ACCESSIBLE CEILINGS FOR LOW VOLTAGE CABLING.

B. ALL J-HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.

C. PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.

D. WHERE J-HOOKS ARE (2) ROWS: SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.

E. CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.

F. FIRE SEAL AROUND ALL CONDUIT SLEEVES AS SHOWN IN DETAILS ON SHEET E7.1. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.

G. COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.

H. J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD. SEE ARCHITECTURAL PLAN FOR WALL MATERIALS.

I. ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING "NOT A CINCH" TYPE RATED VELCRO TIE WRAPS.

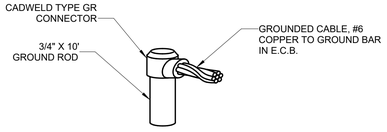
J. J-HOOKS SHALL SUPPORT CABLING FOR: FIRE ALARM, DATA, TELEPHONE, CAMERA, AND ACCESS CONTROL.

K. ONE ROW SHALL SUPPORT SECURITY CABLING, ONE ROW SHALL SUPPORT DATA/TELEPHONE CABLING, ONE ROW SHALL SUPPORT FIRE ALARM SYSTEM.

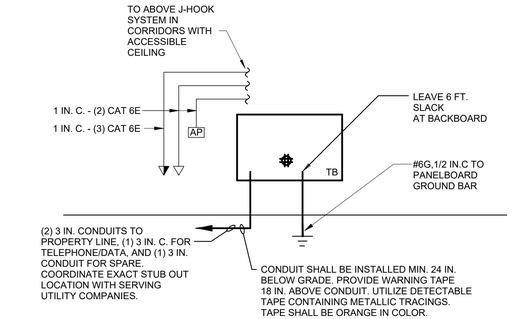
L. SEE DETAIL 5/E-501 - CONCRETE WALL PENETRATION

M. SEE DETAIL 6/E-501 - GYPSUM WALLBOARD PENETRATION.

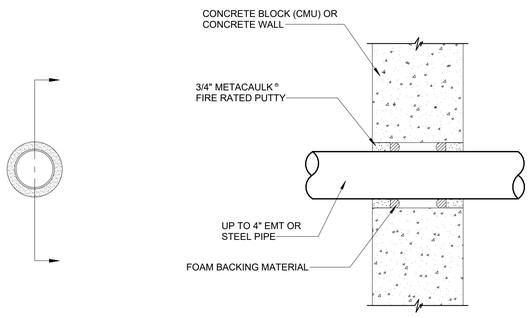
N. WHERE J-HOOKS ARE SHOWN ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE, PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PRE 3/8 IN THREADED ROD.



3 / E-501 DETAIL - CABLE CONNECTION TO GROUND ROD
NO SCALE



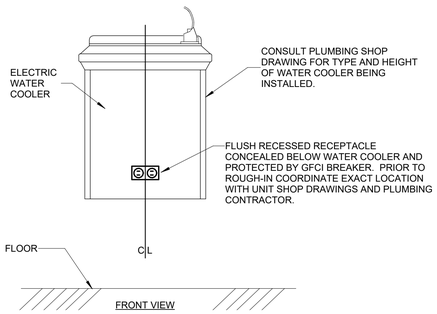
7 / E-501 TELEPHONE/DATA RISER
NO SCALE



4 / E-501 DETAIL - CABLE CONNECTION TO STEEL BEAM
NO SCALE

NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

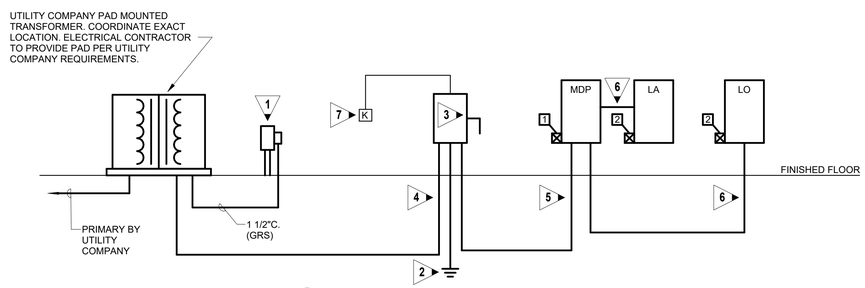
5 / E-501 DETAIL - CONCRETE WALL PENETRATION
NO SCALE



8 / E-501 RECEPTACLE LOCATION @ WATER COOLER
NO SCALE

KEYED NOTES:

1. METER BASE SUPPLIED BY POWER COMPANY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH THE METER.
2. SEE SERVICE GROUNDING DETAIL, 2/E-501.
3. PROVIDE LABEL "SERVICE DISCONNECT". PROVIDE 600A/2P/3R S.E. RATED ENCLOSED SHUNT TRIP TYPE CIRCUIT BREAKER, 35.0 KAIC MINIMUM.
4. 2 SETS: 3#350MCM, 3 IN. C.
5. 2 SETS: 3#350MCM, #3/0G., 3 IN. C.
6. 3#4/0, #2G., 2 1/2 IN. C.
7. SURFACE MOUNTED NEMA 3R KNOX REMOTE POWER BOX PRODUCT NUM. "MKT-KBSPEC-0169". CONNECT TO 600A, 240/120V, 1PH ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP TO REMOTELY DISCONNECT POWER.



1 / E-501 POWER RISER DIAGRAM
NO SCALE

T.V.S.S.

1 MAIN SERVICE PANEL,	PROVIDE 4#6 CONDUCTORS IN 1 IN. C. FROM 60A/2P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER, IN U.L. LISTED 1449 LISTED, 200,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.
2 SERVICE PANELS,	PROVIDE 4#6 CONDUCTORS IN 1 IN. C. FROM 60A/2P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER, IN U.L. LISTED 1449 LISTED, 100,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.

EDC
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GEORGIA REGISTERED NO. 32164 PROFESSIONAL ENGINEER JEFFREY H. McGEE
04/24/26

PROJECT NUMBER: 25-040

REVISIONS
NO. DATE: ISSUE:

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257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ELECTRICAL DETAILS

E-501

ISSUED FOR CONSTRUCTION