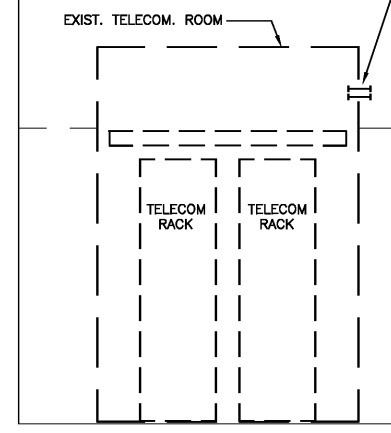
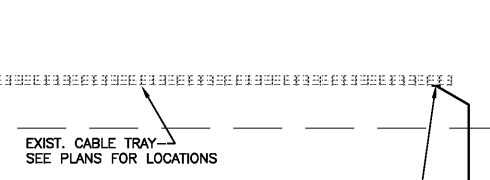


EXIST. CONDUIT SLEEVES THRU TELECOM RM. WALL—PROVIDE ADDITIONAL SLEEVES FOR NEW CABLES WHERE EXIST. SLEEVES ARE AT MAX. CAPACITY FILL



TELECOM ROOM INSTALLATION

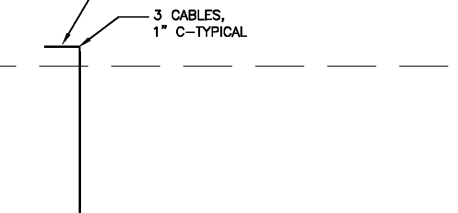


EXIST. CABLE TRAY—SEE PLANS FOR LOCATIONS
ALL TELECOM CONDUIT SHALL BE STUBBED OUT AFC AND EXTENDED TO CABLE TRAY—BUSH WITHIN 4" OF CABLE TRAY—TYPICAL

TELECOM CONDUIT FROM INDIVIDUAL OUTLET OR OTHER TELECOM OUTLET TYPE—SEE "TELECOM OUTLET AND CONDUIT SIZING" SECTION FOR PARTICULARS

TELECOM CONDUIT AND CABLE ROUTING

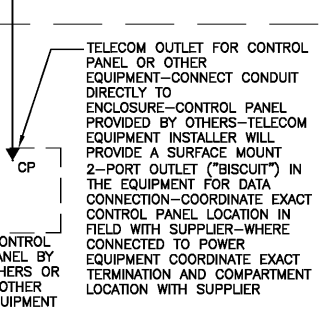
CONDUIT AS INDICATED IN "TELECOM CONDUIT AND CABLE ROUTING" SECTION—TYPICAL



3 CABLES, 1" C—TYPICAL
2 CABLES, 1" C—TYPICAL
TELECOM OUTLET—SEE PLANS FOR QUANTITY AND LOCATION—MIN 4" SQ. x MIN 2 1/8" D BOX WITH DOUBLE GANG COVER—TYPICAL

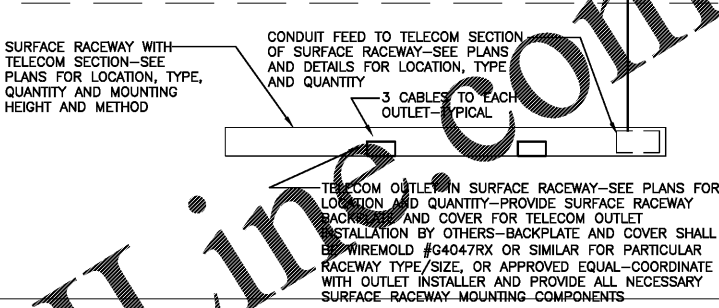
TELECOM OUTLET AND CONDUIT SIZING

TELECOM OUTLET FOR CONTROL PANEL OR OTHER EQUIPMENT—CONNECT CONDUIT DIRECTLY TO ENCLOSURE—CONTROL PANEL PROVIDED BY OTHERS—TELECOM EQUIPMENT INSTALLER WILL PROVIDE A SURFACE MOUNT 2-PORT OUTLET ("BISCUIT") IN THE EQUIPMENT FOR DATA CONNECTION—COORDINATE EXACT CONTROL PANEL LOCATION IN FIELD WITH SUPPLIER—WHERE CONNECTED TO POWER EQUIPMENT COORDINATE EXACT TERMINATION AND COMPARTMENT LOCATION WITH SUPPLIER



TELECOM OUTLET AND CONDUIT SIZING

MINIMUM 2-1 1/4" CONDUITS FROM TELECOM SECTION OF RACEWAY TO CABLE TRAY AND BUSHED—SEE DETAILS
SURFACE RACEWAY WITH TELECOM SECTION—SEE PLANS FOR LOCATION, TYPE, QUANTITY AND MOUNTING HEIGHT AND METHOD
CONDUIT FEED TO TELECOM SECTION OF SURFACE RACEWAY—SEE PLANS AND DETAILS FOR LOCATION, TYPE AND QUANTITY
3 CABLES TO EACH OUTLET—TYPICAL



TELECOM OUTLETS IN SURFACE MULTI-OUTLET RACEWAY

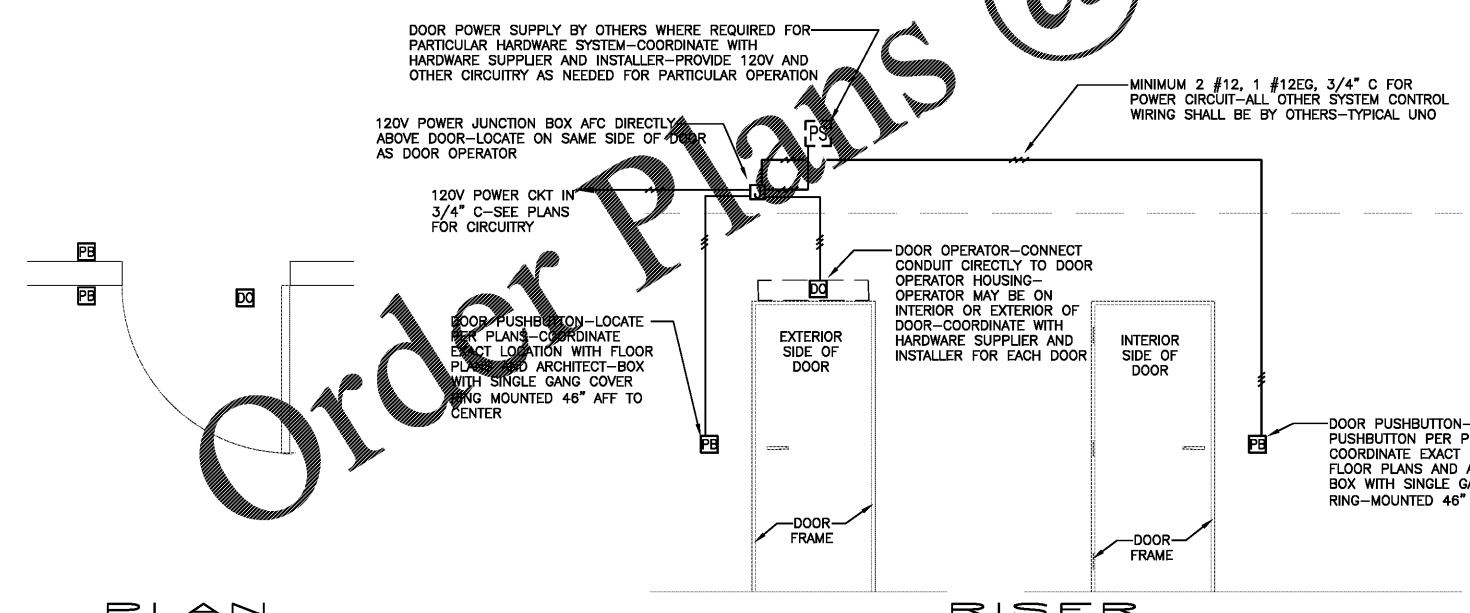
TELECOMMUNICATION RISER NOTES

- MINIMUM CONDUIT SIZE SHALL BE 1", EXCEPT CONDUIT SERVING WALL TELEPHONE OUTLETS MAY BE 3/4".
- CONTINUOUS CONDUIT RUNS SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS IN EACH RUN. WHERE CONDUIT ROUTING HAS MORE THAN TWO 90 DEGREE BENDS, PROVIDE A PULL BOX AFTER EACH TWO BENDS. WHERE CONDUIT ROUTING EXCEEDS 75' IN LENGTH, PROVIDE A PULL BOX SUCH THAT EACH RUN BETWEEN PULL BOXES IS OF EQUAL LENGTH AND LESS THAN 75'. CONDUIT BODIES (LB OR SIMILAR TYPE) ARE NOT ALLOWED TO MEET THIS REQUIREMENT. NOTE PULL BOX LOCATIONS AND THE OUTLETS THEY SERVE ON AS-BUILT DRAWINGS. THE CONTRACTOR SHALL PROVIDE A SYSTEM OF CONDUIT WITH NECESSARY PULL BOXES AND LONG SWEEP BENDS SUCH THAT THE PULLING TENSION ON ANY CABLE DOES NOT EXCEED 25 POUNDS OF PULLING FORCE.
- ALL CONDUIT SHALL HAVE PLASTIC INSULATED BUSHINGS.
- SEE PLANS FOR EXACT QUANTITY, LOCATION AND TYPE OF DEVICES.
- ROUTE CONDUIT IN SUCH A MANNER AS TO MAINTAIN MINIMUM 6" CLEARANCE BETWEEN TELECOMMUNICATION CONDUIT ROUTING PATHWAY AND ANY OTHER SYSTEM CIRCUITRY (I.E.—FIRE ALARM, LIGHTING/POWER, INTERCOMMUNICATION, SIGNAL SYSTEMS) OR LIGHT FIXTURES.
- COORDINATE WITH OTHER TRADES AND EXISTING FIELD CONDITIONS IN ORDER TO MAINTAIN CABLE ROUTING RACEWAY AND THE CABLE AT A CONSISTENT ELEVATION AT APPROXIMATELY 8"-12" ABOVE THE FINISH CEILING.
- TELEPHONE OUTLETS FOR WALL MOUNT SHALL BE MOUNTED SUCH THAT INSTALLATION OF THE TELEPHONE EQUIPMENT UPON THE OUTLET DOES NOT CONFLICT WITH OTHER CONSTRUCTION (DOOR FRAMES, LIGHTS SWITCHES, CABINETS, FURNITURE, ETC.). COORDINATE SPACE REQUIREMENTS WITH OWNER, ARCHITECT, AND OTHER PROVIDERS OF SUCH TELEPHONE EQUIPMENT AS REQUIRED TO AVOID SUCH CONFLICT.
- THE INSTALLATION SHALL COMPLY WITH THE UNC-CH TELECOMMUNICATION DESIGN AND CONSTRUCTION GUIDELINES.
- THE ELECTRICAL CONTRACTOR SHALL FIRESEAL ALL WALL/FLOOR PENETRATIONS UPON COMPLETION OF CABLE PULLING.
- THE SYSTEM SHALL BE INSTALLED IN FULL COMPLIANCE WITH BICSI (BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL) TELECOMMUNICATION GUIDELINES.
- WHERE CONDUIT IS SHOWN EXTENDED TO CABLE TRAY, THE CONDUIT SHALL TERMINATE WITHIN 6" OF CABLE TRAY.

TELECOMMUNICATION CABLE, TERMINATION AND EQUIPMENT INSTALLATION NOTES

- ALL VOICE/DATA TELECOM CABLE SHALL BE FURNISHED BY THE OWNER TO THE CONTRACTOR. ALL VOICE/DATA TELECOM CABLE SHALL BE INSTALLED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE A LABEL ON EACH END OF THE CABLE WITH A DISTINCTIVE NUMBER LABEL.
- THE CONTRACTOR SHALL LEAVE MINIMUM 12" SPARE CABLE LENGTH AT EACH TELECOM OUTLET AND MINIMUM 6" SPARE CABLE LENGTH AT TOP OF TELECOM RACK IN TELECOM ROOM. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE EXACTLY WHICH RACK TO PROVIDE THE SPARE LENGTH TO.
- THE OWNER OR THE OWNER'S CONTRACTOR SHALL TERMINATE, TEST AND PROVIDE FOR PARTICULAR LABELING FOR ALL CABLES.
- ALL OUTLET JACKS AND FACEPLATES, WIRELESS ANTENNAS, TELECOMMUNICATION RACKS AND ASSOCIATED WIRE MANAGEMENT ITEMS, PATCH PANELS, VOICE PUNCH DOWN BLOCKS, ASSOCIATED APPURTENANCES SHALL BE PROVIDED AND INSTALLED BY THE OWNER OR THE OWNER'S CONTRACTOR. COORDINATE WITH THE OWNER FOR CABLE INSTALLATION AND FINAL CONNECTIONS OF CABLE.
- EACH TELECOM OUTLET SHALL HAVE TWO CAT 6A TELECOM CABLES INSTALLED AT EACH OUTLET UNO.
- THE CONTRACTOR SHALL INSTALL A POLYESTER MEASURING PULL TAPE IN ALL TELECOM CONDUIT. PULL TAPE SHALL BE MINIMUM 200 POUND TEST STRENGTH AND BE MARKED IN LENGTH AT EACH FOOT. THE PULL TAPE SHALL REMAIN IN THE CONDUIT WITH THE CABLE AFTER CABLE INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE OWNER FOR OBTAINING CABLE, SCHEDULING A TIME FOR CABLE INSTALLATION AND FOR THE OWNER TO PERFORM CABLE TERMINATIONS. CABLE SHALL NOT BE INSTALLED AND LEFT UNTERMINATED FOR MORE THAN 7 DAYS.
- THE OWNER CONTACTS FOR COORDINATION OF TELECOM WORK SHALL BE THE OWNER'S PROJECT MANAGER AND THE UNC-CH ITS PROJECT MANAGER.

1 TELECOM RISER
E302 NOT TO SCALE



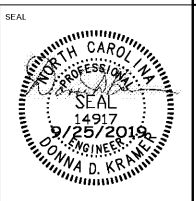
PLAN

RISER

2 DOOR OPERATOR RISER
E302 NOT TO SCALE

DOOR OPERATOR CONTROL SYSTEM NOTES

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PARTICULAR PROVIDED DOOR OPERATOR SYSTEM INSTALLER, AND THE DOOR FRAME AND HARDWARE SUPPLIER/INSTALLER FOR THE ENTIRE DOOR OPERATOR SYSTEM EQUIPMENT INSTALLATION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PUSHBUTTON, DOOR FRAME, AND DOOR OPERATOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUCH OUTLETS, RACEWAY AND POWER TO ACCOMMODATE THE INSTALLATION AND OPERATION OF THE PARTICULAR SYSTEM PROVIDED BY THE SYSTEM INSTALLER AT EACH DOOR LOCATION. OBTAIN CONTROL WIRING DIAGRAM FROM HARDWARE AND DOOR SUPPLIER FOR COMPLETE UNDERSTANDING OF COMPONENTS PROVIDED AND WIRING REQUIREMENTS AT EACH DOOR. COORDINATE EXACT REQUIREMENTS, CONDUIT, ROUTING, OUTLET BOX SIZE AND ORIENTATION, EXACT LOCATION OF BOXES AND FINAL SCHEMATIC CONNECTIONS WITH PARTICULAR SYSTEM EQUIPMENT SUPPLIER.
- PROVIDE 100 POUND TEST NYLON PULL CORD IN ALL EMPTY CONDUIT.
- PROVIDE AN INSULATED THROAT CONNECTOR AT THE TERMINATION OF ALL CONDUIT AT BOXES, TERMINATIONS, DOOR OPERATOR AND ENCLOSURES.
- INSTALL ALL CONDUIT WITH A MAXIMUM OF 360 DEGREES OF CONDUIT BENDS. INSTALL PULL BOXES WHERE REQUIRED TO MEET THIS REQUIREMENT. CONDUIT BODIES ("LB" OR SIMILAR TYPE) ARE NOT ALLOWED TO MEET THIS REQUIREMENT. ALL PULL BOXES SHALL BE EASILY ACCESSIBLE.
- ALL SYSTEM CONTROL CABLE, OPERATORS, PUSHBUTTONS AND OTHER DOOR OPERATOR SYSTEM COMPONENTS OR DOOR HARDWARE SHALL BE PROVIDED AND INSTALLED BY OTHERS. COORDINATE EXACT REQUIREMENTS WITH PARTICULAR SYSTEM SUPPLIER AND INSTALLER.
- ALL BOXES BELOW THE CEILING SHALL BE FLUSH MOUNTED AND ALL CONDUIT BELOW THE CEILING SHALL BE CONCEALED.



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SHEET TITLE
TELECOM RISER

UNC SCHOOL OF MEDICINE
NEUROSCIENCES RESEARCH BUILDING
7th & 8th FLOORS FOR DERMATOLOGY

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