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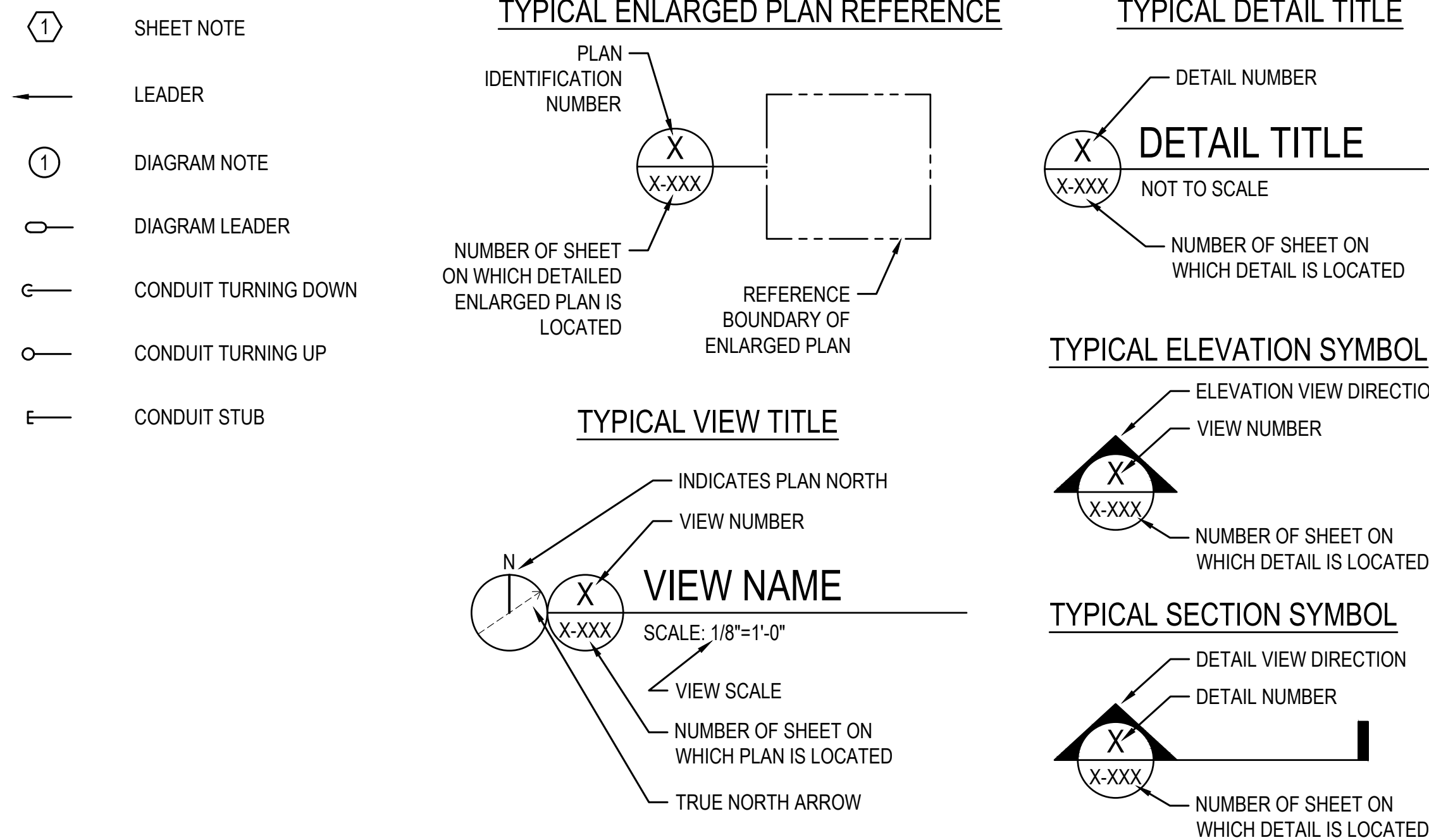
TELECOM SYSTEM LEGEND

DEVICE SYMBOL	SYMBOL SUBSCRIPT - TYPE 'X'	DESCRIPTION	CAT 6 UTP (QTY)	CAT 6 STP (QTY)	RG-6 COAX (QTY)	JACK/MODULE TYPE	JACK/MODULE COLOR	
BUILDING SUPPORT SYSTEM DEVICES								
	EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM	(2)	-	-	RJ-45	VIOLET	
	FA	FIRE ALARM OUTLET	(2)	-	-	RJ-45	RED	
WALL MOUNT PHONE DEVICES								
	-	WALL MOUNT PHONE OUTLET	(1)	-	-	RJ-45	BLUE	
NETWORK DEVICES								
	-	DATA/VOICE OUTLET	(2)	-	-	RJ-45	BLUE	
	AW	DATA/VOICE OUTLET - ABOVE WORK SURFACE	(2)	-	-	RJ-45	BLUE	
	-	WIRELESS ACCESS POINT DATA OUTLET - CEILING MOUNT	(2)	-	-	RJ-45	BLUE	
FLOOR MOUNT NETWORK DEVICES								
	-	FLOOR BOX - DATA/AV/POWER OUTLET	(2)	-	-	RJ-45	BLUE	
BUILDING INFORMATION SYSTEM DEVICES								
	-	TV/DISPLAY OUTLET	-	(1)	(1)	F-CONN	BLUE / MATCH FACEPLATE	
RACEWAY & SUPPORTING INFRASTRUCTURE								
	-	PRIMARY BONDING BUSBAR	-	-	-	-	-	
RACEWAY & SUPPORTING INFRASTRUCTURE - SITE								
	-	UNDERGROUND CONDUIT	-	-	-	-	-	
	-	HANDHOLE	-	-	-	-	-	
PUBLIC ADDRESS SYSTEM								
	-	CEILING MOUNTED SPEAKER - INTERIOR	REFER TO PAGING SINGLE LINE DIAGRAM					

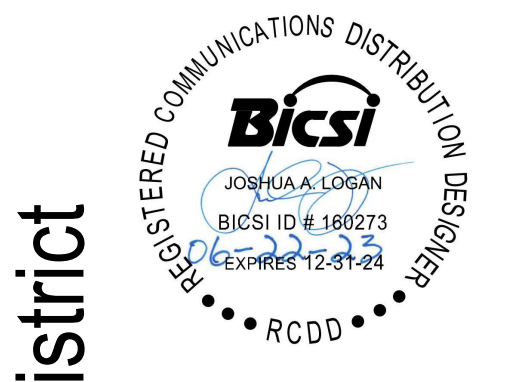
TELECOM ABBREVIATIONS:

- AW ABOVE WORK-SURFACE
- AFF ABOVE FINISH FLOOR
- ADA AMERICANS WITH DISABILITIES ACT
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- AWG AMERICAN WIRE GAUGE
- AA APPROVING AUTHORITY
- ARCH ARCHITECTURAL
- AV AUDIO VISUAL
- AHJ AUTHORITY HAVING JURISDICTION
- BBC BONDING BACKBONE CONDUCTOR
- BAS BUILDING AUTOMATION SYSTEM
- CT CABLE TRAY
- CAT 3 CATEGORY 3
- CAT 5E CATEGORY 5 ENHANCED
- CAT 6 CATEGORY 6
- CAT 6A CATEGORY 6 AUGMENTED
- CO COMMUNICATIONS OUTLET
- CATV COMMUNITY ANTENNA TELEVISION
- COND CONDUCTOR
- C CONDUIT
- CP CONSOLIDATION POINT
- CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
- CFOI CONTRACTOR FURNISHED, OWNER INSTALLED
- OTR OWNER'S TECHNICAL REPRESENTATIVE
- DDC DIRECT DIGITAL CONTROLS
- DEMARC DEMARCATION
- ELEC ELECTRICAL
- EMI ELECTROMAGNETIC INTERFERENCE
- EMCS ENERGY MANAGEMENT CONTROL SYSTEM
- EMT ELECTRICAL METALLIC TUBING
- FCC FEDERAL COMMUNICATIONS COMMISSION
- FO FIBER OPTIC
- HH HANDHOLE
- IAW IN ACCORDANCE WITH
- LAN LOCAL AREA NETWORK
- MTR MAIN TELECOMMUNICATIONS ROOM
- MH MAINTENANCE HOLE
- MAX MAXIMUM
- um MICRON / MICROMETER
- MIN MINIMUM
- MUTOA MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
- MM MULTIMODE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NEC NATIONAL ELECTRICAL CODE
- NESC NATIONAL ELECTRICAL SAFETY CODE
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- N/A NOT APPLICABLE
- NIC NOT IN CONTRACT
- OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
- OFOI OWNER FURNISHED, OWNER INSTALLED
- OSP OUTSIDE PLANT
- PR PAIR
- PP PATCH PANEL
- PVC POLYVINYL CHLORIDE
- PB PULL BOX
- PBB PRIMARY BONDING BUSBAR
- PBX PRIVATE BRANCH EXCHANGE
- RMU RACK MOUNTED UNIT
- RM ROOM
- R/I ROUGH-IN
- ScTP SCREENED TWISTED-PAIR
- SBB SECONDARY BONDING BUSBAR
- SVTC SECURED VIDEO TELECONFERENCE
- SEC SECURITY
- STP SHIELDED TWISTED-PAIR
- SM SINGLEMODE
- SF SURFACE MOUNT
- STR STRANDS
- TBB TELECOMMUNICATIONS BONDING BACKBONE
- TEBC TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
- TBC TELECOMMUNICATIONS BONDING CONDUCTOR
- TER TELECOMMUNICATIONS EQUIPMENT ROOM
- TR TELECOMMUNICATIONS ROOM
- TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION
- TYP TYPICAL
- UL UNDERWRITERS LABORATORIES INC
- UPS UNINTERRUPTIBLE POWER SUPPLY
- UTP UNSHIELDED TWISTED-PAIR
- UNO UNLESS NOTED OTHERWISE
- VTC VIDEO TELECONFERENCE
- VoIP VOICE OVER INTERNET PROTOCOL

SYSTEMS ANNOTATION LEGEND



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1223 Airport Road Destin, Florida 32541
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South Walton County Mosquito Control District New Headquarters Building

774 North County Highway 393
Santa Rosa Beach, Florida 32459

PERMIT SET

No.	Description	Date

TELECOM LEGENDS & NOTES

Project number: 18106
Date: 06-20-2023
PIC: CL
PM: JL

T001

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TELECOMMUNICATIONS GENERAL NOTES - FACILITY INFRASTRUCTURE:

THE TELECOMMUNICATIONS DRAWINGS PROVIDED ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION OF ALL REQUIRED DEVICES; SUCH AS OUTLETS, RACEWAYS, EQUIPMENT, AND APPURTENANCES. THEY DO NOT SHOW ALL NECESSARY OFFSETS, JUNCTION BOXES, CABLE/LADDER TRAY TRANSITIONS, CONDUIT SLEEVES/PENETRATIONS, AND ADJUSTMENTS NECESSARY BY COORDINATION WITH OTHER TRADES IN THE FIELD.

TELECOMMUNICATION CONTRACTOR'S SCOPE OF WORK: TELECOMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR ENTIRE STRUCTURED CABLING SYSTEM ELEMENTS DEFINED IN THIS SCOPE OF WORK. THIS INCLUDES A COMPLETE INSTALLATION OF ALL PASSIVE INFRASTRUCTURE ELEMENTS SUCH AS OUTLETS, JACKS, CABLING, CABINETS, RACKS, BACKBOARDS, LADDER TRAY (LIMITED TO TELECOM ROOMS), TELECOM EQUIPMENT ROOM/CABINET BONDING, TERMINATIONS, TESTING, LABELING, WARRANTIES, AND ALL REQUIRED CLOSE-OUT DOCUMENTS. THE TELECOMMUNICATIONS CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO ENSURE A FULLY FUNCTIONAL SYSTEM.

COORDINATION: WITH OTHER TRADES EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING OUTLETS, RACEWAYS, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO; VERIFYING THE LOCATION AND SIZE OF OPENINGS/PENETRATIONS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES, INSTALLING WORK IN CHASES, SHAFTS, CEILING INTERSTITIAL SPACES, AND EQUIPMENT SPACES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES.

INSTALLATION SHALL CONFORM WITH NFPA 70 "NATIONAL ELECTRICAL CODE," ANSI/TIA, AND ELECTRICAL SPECIFICATIONS (UNO).

CABLING INSTALLATION: ALL CABLING ROUTED IN SLAB, BELOW VAPOR BARRIER OR BELOW GRADE, SHALL BE U.L. LISTED FOR WET LOCATIONS THAT COMPLIES WITH NFPA 70 (NEC): PART V, 725.3(L), 110.11, 300.5(B), 300.6, AND 310.10(G). DO NOT USE PLENUM OR RISER RATED CABLE, AND UNLISTED CABLES IN SUCH AN ENVIRONMENT. FOR IN-FLOOR CONDUIT SYSTEMS, PROVIDE HOME RUNS BACK TO THE TR SERVING THAT AREA.

USE A FILL RATIO OF 40 PERCENT FOR CONDUIT SIZING. DO NOT INSTALL MORE THAN FOUR, FOUR-PAIR CABLES IN A 1 INCH (27 MM) CONDUIT.

PROVIDE PULL STRING IN ALL EMPTY CONDUITS AND INNERDUCT. PULL STRING TO BE RATED FOR 200LBS IN ALL CONDUITS.

TELECOMMUNICATIONS FACEPLATES SHALL MATCH ELECTRICAL SWITCH AND RECEPTACLE PLATE FINISHES. PROVIDE COVER PLATES FOR ALL UNUSED J-BOX LOCATIONS.

LABEL ALL CABLES WITHIN 4 INCHES OF EACH TERMINATION. PROVIDE 12 INCHES SERVICE LOOP AT THE WORK AREA END OF EACH HORIZONTAL CABLE.

INSTALL VELCRO CABLE TIES TO ALL CABLE BUNDLES IN CABLE TRAY, NON-CONTINUOUS SUPPORTS, RACK WIRE MANAGEMENT, D-RINGS AND OTHER SUPPORT MEANS. BUNDLE ALL DIFFERENTIATING NETWORK CABLING SEPARATELY.

BALANCED TWISTED-PAIR CABLING SHALL BE SEPARATED FROM FLUORESCENT LAMPS AND ASSOCIATED FIXTURES BY A MINIMUM OF 5 IN.

NON-CONTINUOUS CABLE SUPPORTS (WHEN SPECIFIED): SUPPORTS MUST NOT EXCEED 20 CABLES OR 50 PERCENT OF THE FILL CAPACITY, WHICHEVER IS LESS; INTERVALS NOT TO EXCEED 5 FT.

CABLING INSTALLATION IN CABLE TRAYS:
A MINIMUM OF 12 IN ACCESS HEADROOM SHALL BE PROVIDED AND MAINTAINED ABOVE A CABLE TRAY SYSTEM OR CABLE RUNWAY.

A MINIMUM OF 3 IN CLEAR VERTICAL SPACE SHALL BE AVAILABLE ABOVE ACCESSIBLE CEILING, BELOW THE CABLE TRAY.

THE MAXIMUM FILL OF ANY CABLE TRAY SHALL NOT EXCEED 25% (UNO), ALLOWING FACILITY USERS AN ADDITIONAL 25% SPARE CAPACITY. THE MAXIMUM FILL DEPTH OF ANY CABLE TRAY SHALL NOT EXCEED 6 IN.

MAIN TELECOM ROOM (MTR) / TELECOM ROOMS (TRs):
CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ENSURE TELECOM ROOMS ARE DIMENSIONALLY CONSTRUCTED AS DESIGNED. THIS INCLUDES USING FIELD MEASUREMENTS TO VERIFY ROOM DIMENSIONS, CONDUIT LOCATIONS (PRIOR TO CONCRETE POUR), WALL PENETRATIONS, AND DEVICE PLACEMENT.

INSTALL BACKBOARDS IN ACCORDANCE WITH TIA-569-D. BACKBOARDS MUST BE FIRE-RETARDANT TREATED WOOD, BEARING THE MANUFACTURER'S STAMP. IF PAINTED, THE MANUFACTURER'S FIRE RATED STAMP MUST REMAIN VISIBLE.

INSTALL FLOOR MOUNTED EQUIPMENT RACKS / CABINETS LOCATED AT OR NEAR THE CENTER OF THE TELECOMMUNICATION ROOM. MAINTAIN A MINIMUM OF 36 INCHES SPACE BOTH IN FRONT AND IN BACK OF THE RACK, MEASURED FROM THE EQUIPMENT, AND A MINIMUM SIDE CLEARANCE OF 24 INCHES ON AT LEAST ONE END OF THE RACK OR ROW OF ADJACENT RACKS IS REQUIRED. PROVIDE 25% SPARE CAPACITY WITHIN EACH UTILIZED RACK.

FURNITURE/MILLWORK:
ENSURE THAT THE CABLE IS PROTECTED AT ALL TRANSITION POINTS, AND THAT METALLIC SEPARATION IS PROVIDED BETWEEN TELECOMMUNICATION AND POWER WIRING IN THE UTILITY COLUMNS AND SYSTEMS FURNITURE TRACK IN ACCORDANCE WITH TIA-569-D AND NFPA 70.

ELECTRICAL GENERAL NOTES - FACILITY INFRASTRUCTURE:

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INTERIOR ROUGH-IN AND SUPPORT SYSTEM NECESSARY FOR THE COMPLETE STRUCTURED CABLING SYSTEM DEFINED IN THIS SCOPE OF WORK. THIS INCLUDES A COMPLETE INSTALLATION OF ALL REQUIRED PATHWAYS INCLUDING: CABLE TRAY (EXCLUDES TRAY IN MTR/TR), CONDUIT, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, BLOCKING, GROUNDING CONDUCTORS AND BUSBARS, FIRESTOPPING, POWER, AND ANY OTHER NECESSARY APPURTENANCES.

THE ELECTRICAL CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO SUPPORT THE TELECOMMUNICATIONS SYSTEM TO COORDINATE AND ENSURE A FULLY FUNCTIONAL SYSTEM.

COORDINATION WITH OTHER TRADES:
EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING OUTLETS, RACEWAYS, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND SIZE OF OPENINGS/PENETRATIONS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES, INSTALLING WORK IN CHASES, SHAFTS, CEILING INTERSTITIAL SPACES, AND EQUIPMENT SPACES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES.

INSTALLATION SHALL CONFORM WITH NFPA 70 "NATIONAL ELECTRICAL CODE," ANSI/TIA, AND ELECTRICAL SPECIFICATIONS (UNO).

CONDUIT:
INSTALL ELECTRICAL METALLIC TUBING (EMT) CONDUIT FROM THE CABLE BACKBONE DISTRIBUTION SYSTEM, WHETHER CABLE TRAY OR ENCLOSED DUCT, TO EACH OUTLET (UNO).

PROVIDE A MINIMUM OF 1 INCH EMT CONDUIT FOR STANDARD OUTLETS. WHEN CABLE TRAY OR ENCLOSED DUCT IS NOT USED, INSTALL INDIVIDUAL CONDUITS FROM THE MTR/TR TO EACH OUTLET.

CONDUITS HAVE BEEN SIZED BASED ON THE NFPA, AS WELL AS ANSI/TIA 569. WHERE INSTALLATIONS VARY, INCREASE CONDUITS SIZES ACCORDING TO MAXIMUM NUMBER OF CABLES BASED ON ALLOWABLE FILL RATIO OF 40%.

FOR IN-SLAB, BELOW VAPOR BARRIER OR BELOW GRADE CONDUIT SYSTEMS, PROVIDE HOME RUNS BACK TO THE MTR/TR SERVING THAT AREA.

METALLIC PATHWAYS 3 FT OR GREATER IN LENGTH SHALL COMPLY WITH THE BONDING REQUIREMENTS OF ANSI/TIA-607.

FOR CONDUITS WITH AN INTERNAL DIAMETER OF 2 IN OR LESS, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. FOR CONDUITS WITH AN INTERNAL DIAMETER OF MORE THAN 2 IN, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS.

CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING.

DO NOT USE FLEXIBLE METAL CONDUIT FOR TELECOMMUNICATIONS WIRING EXCEPT WHEN INSTALLING ACCESS FLOOR BOXES IN AN ACCESS FLOOR, WHERE THE ACCESS FLOOR BOX MAY BE RELOCATED WITHIN A SPECIFIED SERVICE AREA. IN THIS CASE THE LENGTH OF THE FLEXIBLE METAL CONDUIT MUST NOT EXCEED A LENGTH OF 20 FEET (6 M) FOR EACH RUN PER TIA-569-D.

ALL PENETRATIONS SHALL BE SEALED WITH AN APPROVED SEALANT OR U.L. LISTED PENETRATION DEVICE THAT WILL MAINTAIN THE FIRE, SMOKE AND WATERPROOF OR OTHER APPLICABLE RATINGS OF THE TYPE OF CONSTRUCTION BEING PENETRATED. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION REQUIREMENTS.

UNLESS NOTED OTHERWISE, ALL CONDUITS SHALL BE INSTALLED CONCEALED UNDER FLOOR SLABS, ABOVE THE CEILING AND WITHIN THE FINISHED WALLS. ALL OUTLET BOXES SHALL BE INSTALLED FLUSH MOUNTED WITHIN FINISHED WALLS, CEILINGS OR FLOORS. SURFACE MOUNTED RACEWAY AND OUTLET BOXES SHALL NOT BE PERMITTED ON FINISHED WALLS, CEILINGS OR FLOORS EXCEPT AS INDICATED ON THE DRAWINGS.

WHEN SURFACE MOUNT RACEWAYS ARE INDICATED, PROVIDE RACEWAY TO EMT TRANSITIONAL ADAPTER AT ALL ACCESSIBLE CEILINGS. ABOVE ACCESSIBLE CEILING, ROUTE EMT TO SERVING CABLE TRAY OR SERVING MTR/TR.

PULL ROPE SHALL BE INSTALLED IN ALL CONDUITS. PULL ROPE SHALL HAVE A MINIMUM 200LB TENSILE STRENGTH FOR ALL TELECOMMUNICATIONS CONDUITS.

WORK AREA OUTLETS:
INSTALL DOUBLE GANG ELECTRICAL BOXES, MINIMUM STANDARD SIZE 4-11/16 INCHES SQUARE AND 2-1/8 INCHES DEEP WITH APPROPRIATELY SIZED PLASTER RING FOR CONNECTION OF SINGLE GANG OR DOUBLE GANG FACEPLATE.

INSTALL OUTLET BOX FOR RECESS MOUNTING WITH THE FACEPLATE FLUSH WITH THE WALL SURFACE, AT THE SAME HEIGHT AS THE ELECTRICAL OUTLETS.

DO NOT PUT OUTLET BOXES IN SAME STUD CAVITY WHERE BOXES ARE ON EACH SIDE OF STC RATED WALLS.

POWER:
INSTALL A QUADRUPLIX ELECTRICAL OUTLET WITHIN 6 INCHES OF ALL WORK AREA OUTLETS TO SERVE TELECOMMUNICATIONS LOADS ASSOCIATED WITH THAT OUTLET.

TELECOM GROUNDING / BONDING:
INSTALL ALL REQUIRED TELECOM GROUNDING / BONDING PER ANSI/TIA 607, ELECTRICAL SPECIFICATIONS, TELECOM GROUNDING DETAILS / NOTES (UNO).

BLOCKING AND SUPPORT HARDWARE:
INSTALL ALL MOUNTS AND SUPPORT HARDWARE FOR TELECOM SYSTEMS; INCLUDING, UNISTRUT, ALL- THREAD OR THREADED RODS, BLOCKING, SUPPORT CABLES, ETC.

CABLE TRAYS:
THE MAXIMUM FILL OF ANY CABLE TRAY SHALL NOT EXCEED 50%. THE MAXIMUM FILL DEPTH OF ANY CABLE TRAY SHALL NOT EXCEED 6 IN.

THE SPAN FOR CABLE SUPPORT SYSTEMS SHALL BE DETERMINED IN ACCORDANCE WITH THE MANUFACTURER'S MAXIMUM RECOMMENDED LOAD CAPACITY FOR A GIVEN SPAN. THESE SYSTEMS MAY BE SUPPORTED BY THREE BASIC METHODS:

1. CANTILEVER BRACKETS FROM A WALL;
2. TRAPEZE OR INDIVIDUAL ROD SUPPORTS FROM ABOVE;
3. OR FROM BELOW.

CABLE TRAY SUPPORTS SHALL BE LOCATED WHERE PRACTICAL SO THAT CONNECTIONS BETWEEN SECTIONS OF THE TRAY FALL BETWEEN THE SUPPORT POINT AND ONE-QUARTER THE DISTANCE OF THE SPAN. A SUPPORT SHALL BE PLACED WITHIN 24 IN ON EACH SIDE OF ANY CONNECTION TO A BEND, TEE, OR CROSS.

A MINIMUM OF 12 IN ACCESS HEADROOM SHALL BE PROVIDED AND MAINTAINED ABOVE A CABLE TRAY SYSTEM OR CABLE RUNWAY.

INSTALL CABLE TRAY WITH SWEEPING RADIAL TURNS. DO NOT INSTALL WITH HARD 90° TURNS.

BOND CABLE TRAY PER ANSI/TIA 607, AND GROUNDING DETAILS / NOTES.

PULL BOXES:
PULL BOXES SHALL BE READILY ACCESSIBLE. PULL BOXES SHALL NOT BE PLACED IN A FIXED FALSE CEILING SPACE UNLESS IMMEDIATELY ABOVE A SUITABLY MARKED ACCESS PANEL.

- A PULL BOX SHALL BE PLACED IN A CONDUIT RUN WHERE:
- THE LENGTH IS OVER 100 FT;
 - THERE ARE MORE THAN TWO 90° BENDS, OR EQUIVALENT;
 - OR THERE IS A REVERSE (U-SHAPED) BEND IN THE RUN.

PULL BOXES SHALL BE PLACED IN A STRAIGHT SECTION OF CONDUIT. THEY SHALL NOT BE USED IN LIEU OF A BEND. THE CORRESPONDING CONDUIT ENDS SHALL BE ALIGNED WITH EACH OTHER.

WHERE A PULL BOX IS REQUIRED WITH CONDUITS SMALLER THAN 1-1/4", AN OUTLET BOX MAY BE USED AS A PULL BOX.

IF THE PULL BOX IS COMPRISED OF METALLIC COMPONENTS, IT SHALL BE BONDED TO GROUND.



ARCHITECTS

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South Walton County Mosquito Control District
New Headquarters Building

774 North County Highway 393
Santa Rosa Beach, Florida 32459

PERMIT SET

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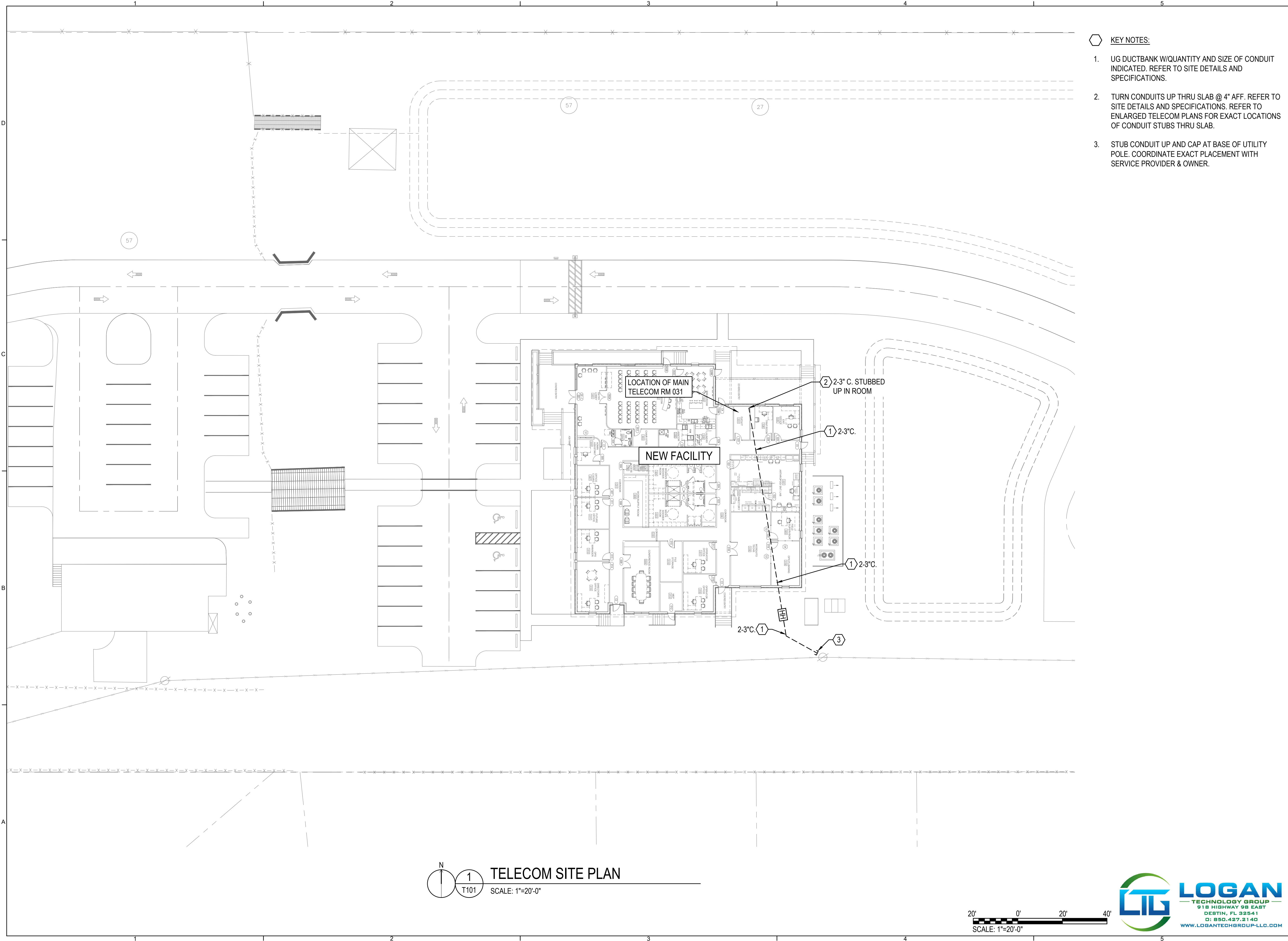
TELECOM GENERAL NOTES

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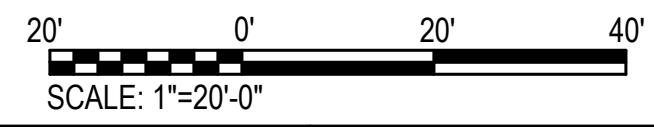
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- KEY NOTES:**
1. UG DUCTBANK W/QUANTITY AND SIZE OF CONDUIT INDICATED. REFER TO SITE DETAILS AND SPECIFICATIONS.
 2. TURN CONDUITS UP THRU SLAB @ 4" AFF. REFER TO SITE DETAILS AND SPECIFICATIONS. REFER TO ENLARGED TELECOM PLANS FOR EXACT LOCATIONS OF CONDUIT STUBS THRU SLAB.
 3. STUB CONDUIT UP AND CAP AT BASE OF UTILITY POLE. COORDINATE EXACT PLACEMENT WITH SERVICE PROVIDER & OWNER.

TELECOM SITE PLAN
 SCALE: 1"=20'-0"




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 New Headquarters Building**

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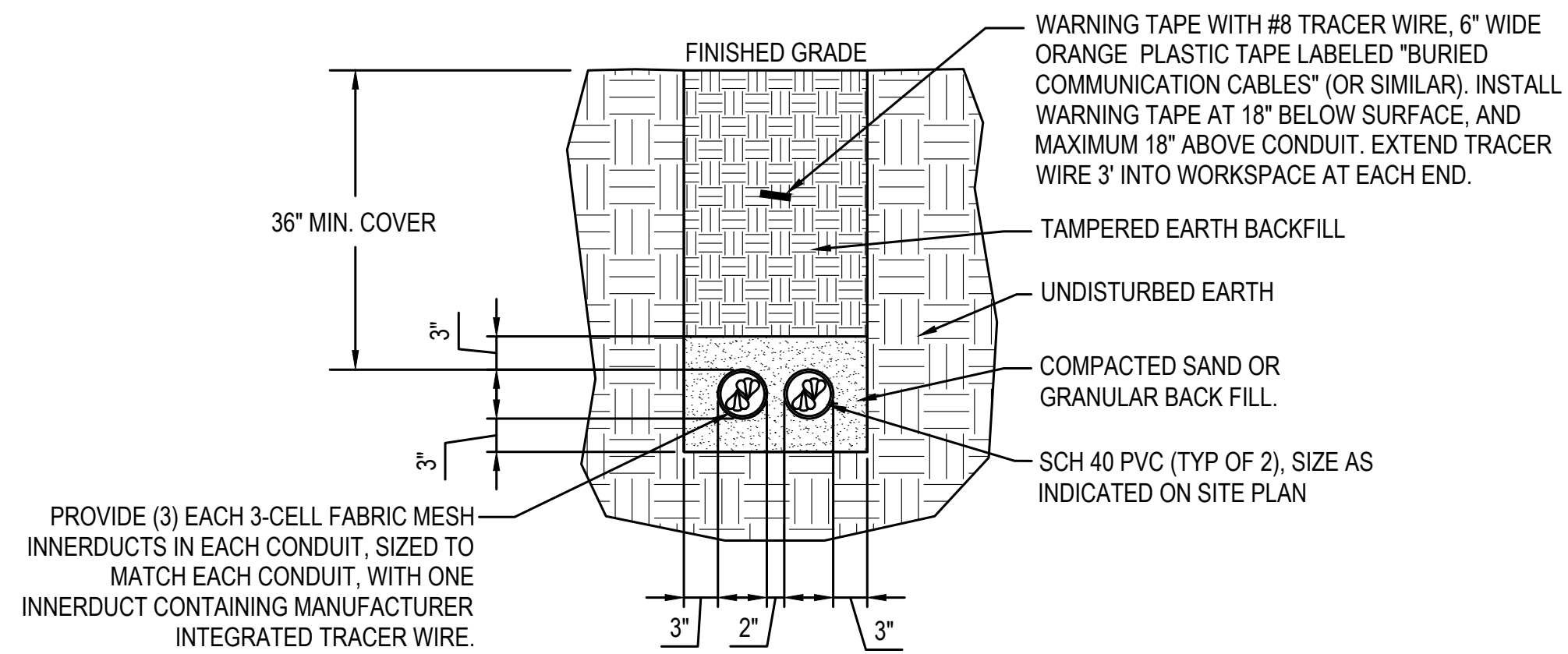
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TELECOM SITE PLAN

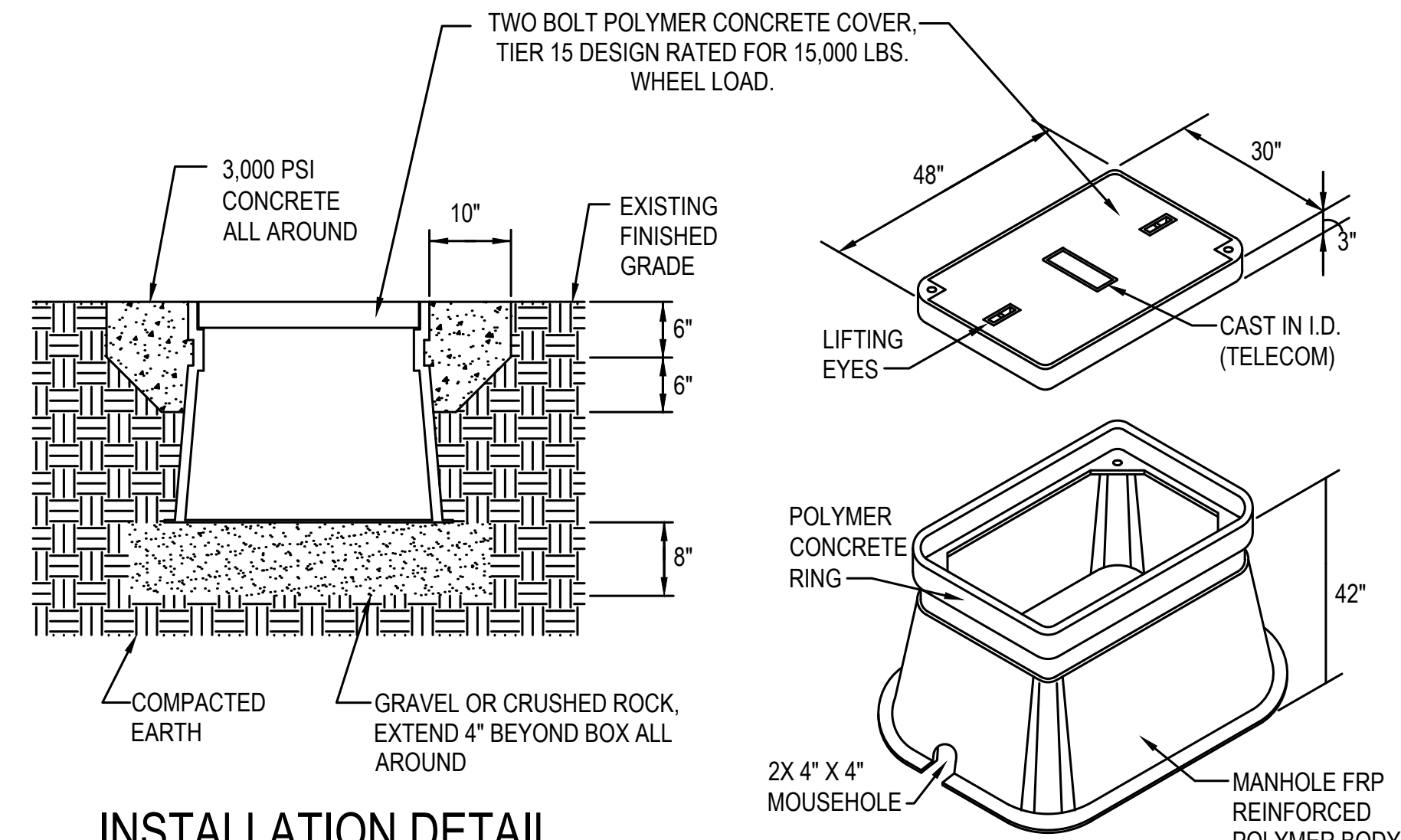
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1 2-WAY UNDERGROUND TELECOM DUCTBANK
NOT TO SCALE

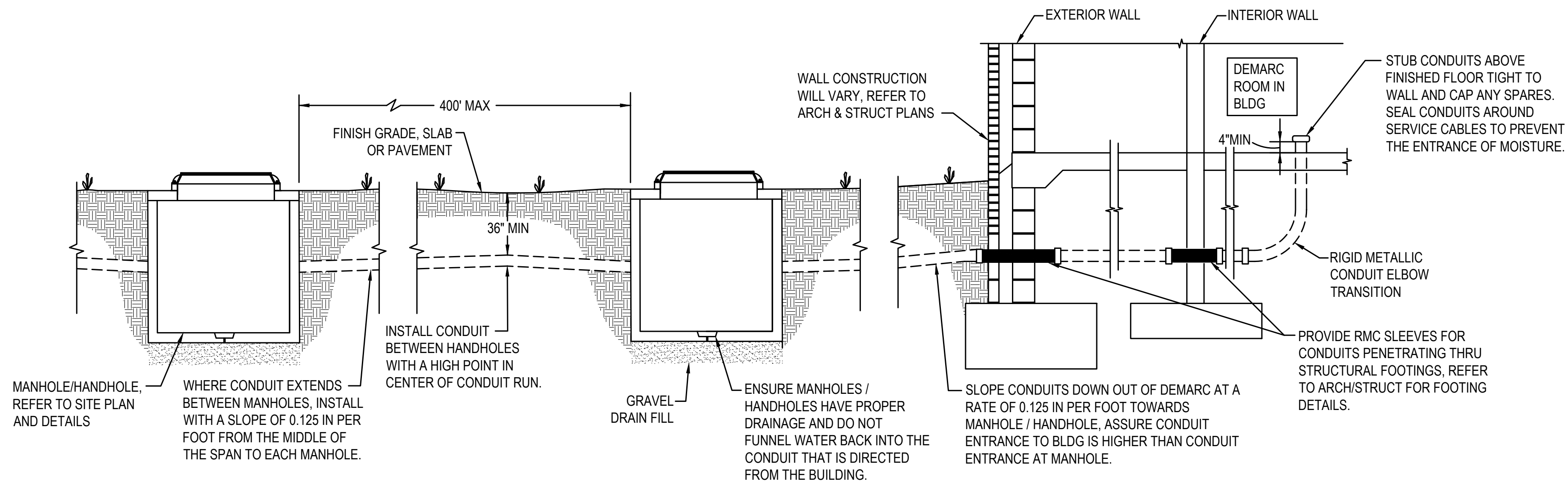


INSTALLATION DETAIL

NOTE:

- ENCLOSURE (BOX) SHALL BE TIER 15 TYPE BOX, HUBBELL P/N B12304836A WITH TIER 15 COVER WITH (2) BOLTS, HUBBELL P/N C12304803A, (LOGO=TELECOM). INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THESE REQUIREMENTS.
- TERMINATE CONDUITS ENTERING BOX WITH BUSHING. CONSTRUCT CONDUITS TO ENTER BOX FROM SIDE WITH MINIMUM 2% DOWNWARD SLOPE, ALLOWING CONDUITS TO DRAIN INTO BOX.
- LABEL ALL CABLES INSIDE BOX WITH STAINLESS STEEL OR POLYETHYLENE TAGS INDICATING SOURCE AND DESTINATION.

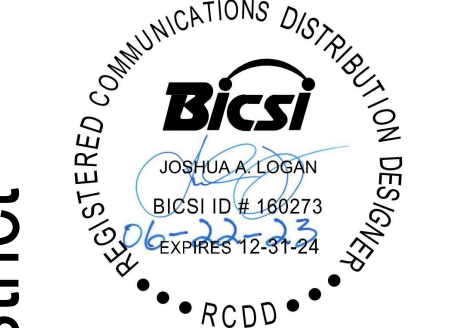
2 TYPICAL HANDHOLE DETAIL
NOT TO SCALE



3 UNDERGROUND CONDUIT SLOPE PROFILE DETAIL
NOT TO SCALE



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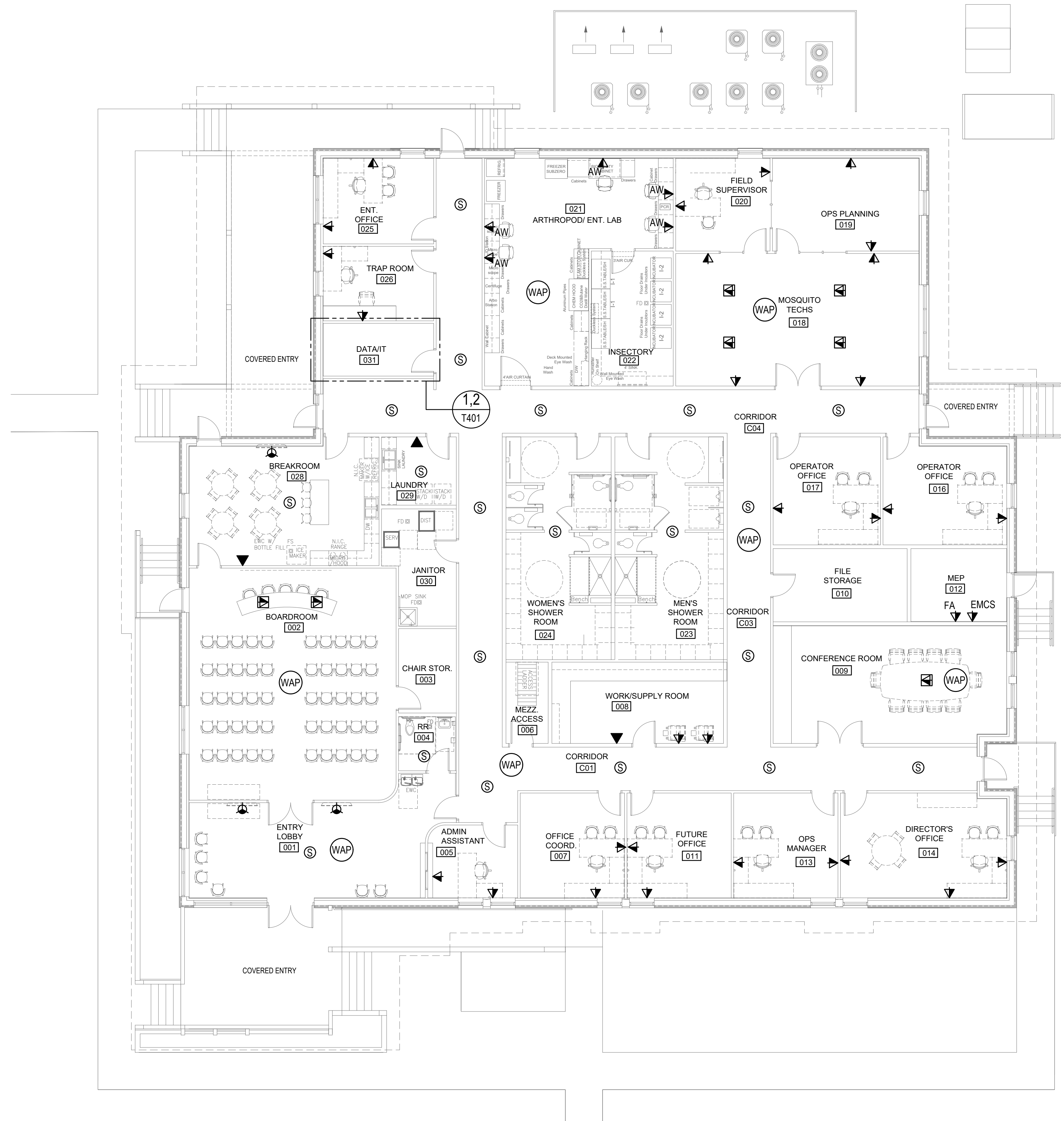
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TELECOM SITE DETAILS

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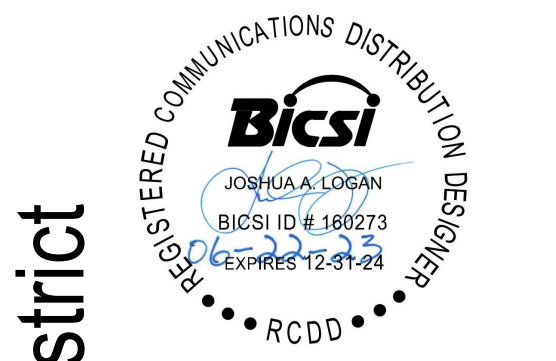
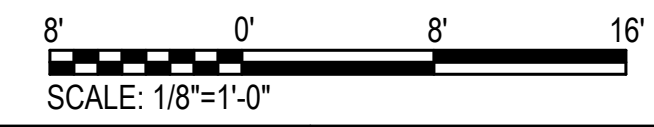


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- GENERAL NOTES:**
1. REFER TO LEGEND AND NOTES, SHEETS T001 AND T002 FOR ADDITIONAL INFORMATION.
 2. FOR DETAILS, REFER TO SHEETS T201 - T204.
 3. FOR SINGLE LINE DIAGRAMS, REFER TO SHEET T301.

TELECOM FLOOR PLAN
 SCALE: 1/8"=1'-0"



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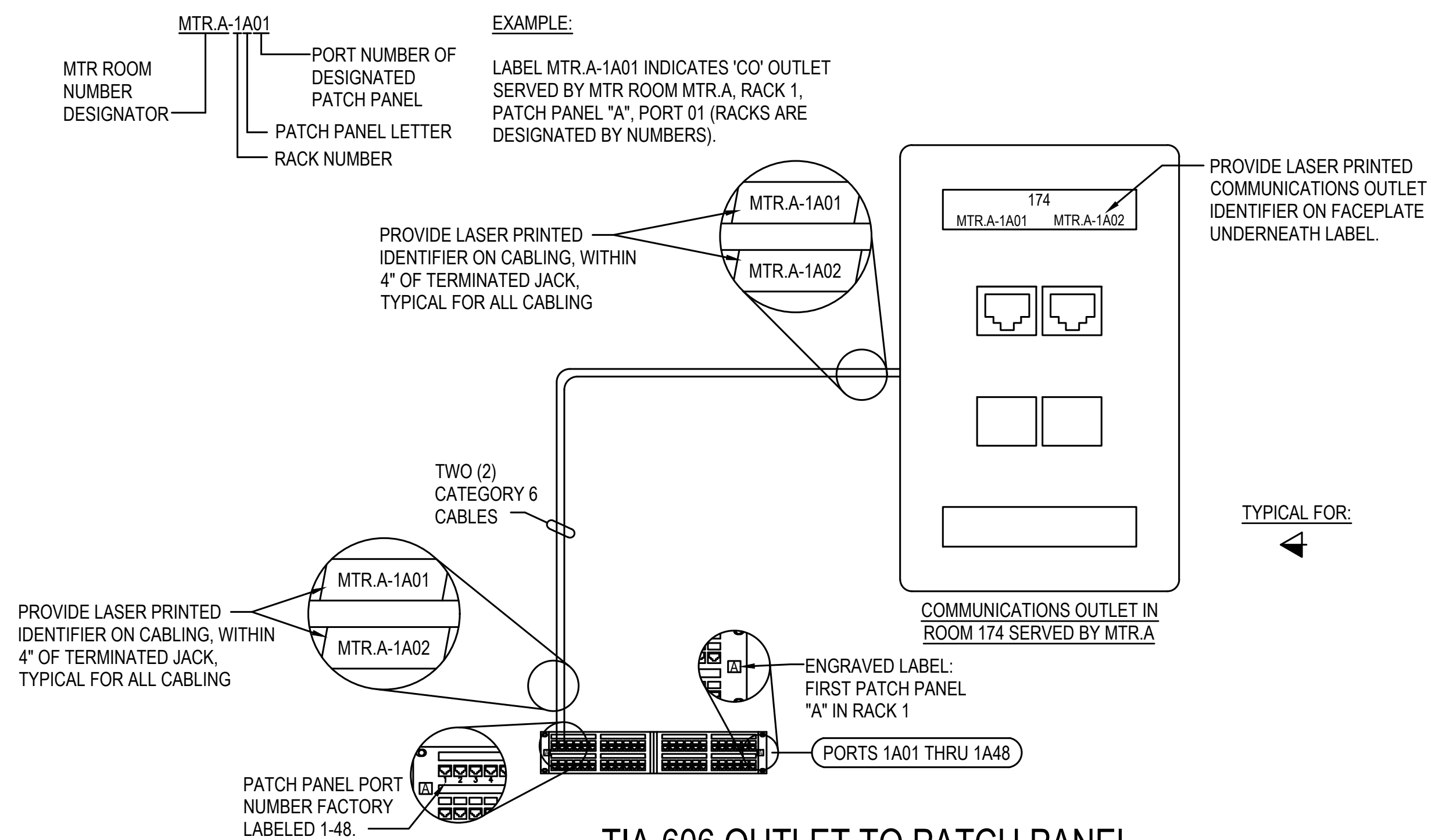
No.	Description	Date

TELECOM FLOOR PLAN

Project number: 18106
 Date: 06-20-2023
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T111

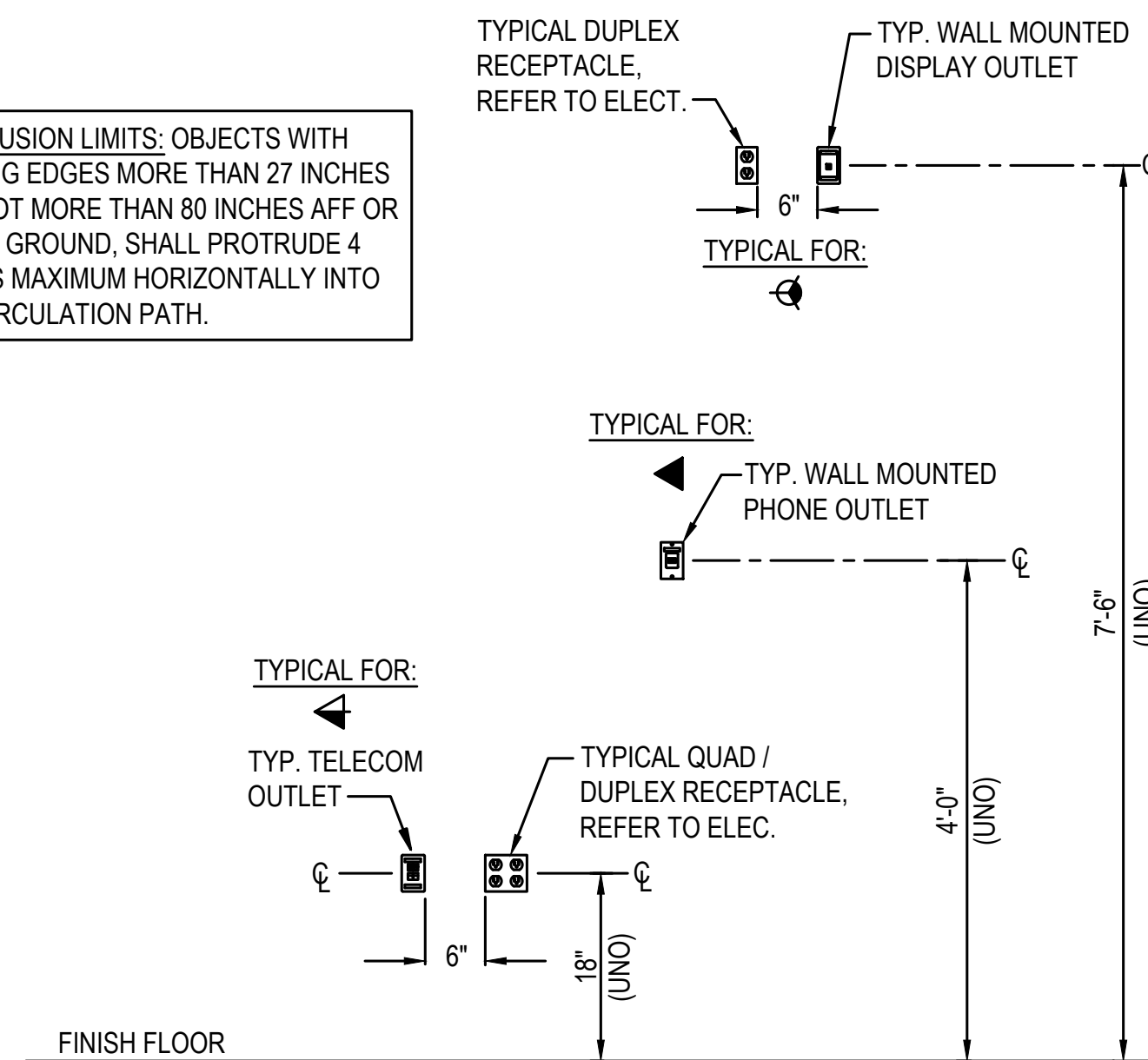
ANSI/TIA 606 IDENTIFICATION NOMENCLATURE



TIA-606 OUTLET TO PATCH PANEL LABELING NOMENCLATURE (TYPICAL)

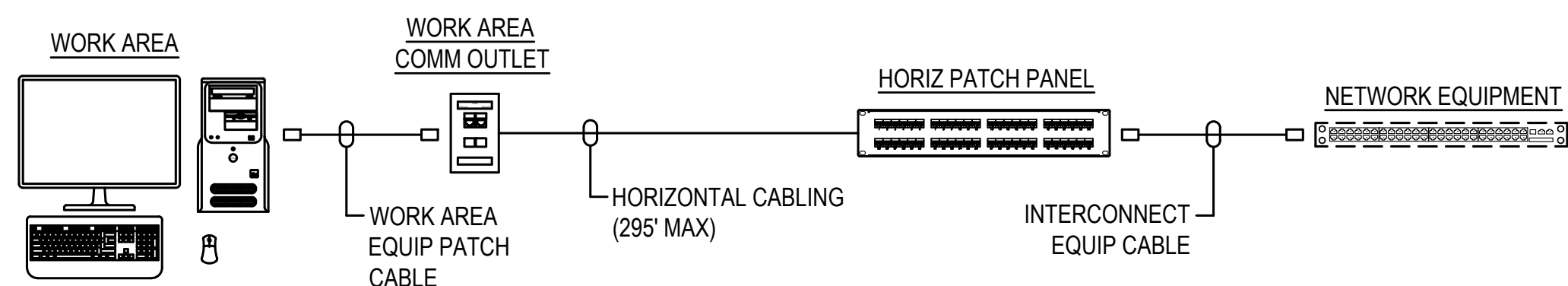
1 NOT TO SCALE

PROTRUSION LIMITS: OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES AFF OR ABOVE GROUND, SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.



2 TYPICAL DEVICE MOUNTING DETAIL

2 NOT TO SCALE



NOTE:
 PER ANSI/TIA-568, THE HORIZONTAL CABLING EXTENDS FROM THE TERMINATION OF THE MEDIA AT THE PATCH PANEL IN THE MTR/TR TO THE TELECOMMUNICATIONS OUTLET/CONNECTOR OR MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY. THE MAXIMUM HORIZONTAL CABLING LENGTH IN ANY DEVICE IS NOT TO EXCEED 90M (295FT), INDEPENDENT OF MEDIA TYPE. WHERE A MUTOA IS DEPLOYED, THE MAXIMUM HORIZONTAL BALANCED TWISTED-PAIR COPPER CABLE LENGTH SHALL BE REDUCED IN ACCORDANCE WITH ANSI/TIA-568. IN ESTABLISHING THE MAXIMUM DISTANCE FOR EACH HORIZONTAL CHANNEL, AN ALLOWANCE WAS MADE FOR 5M (16FT) FROM THE TELECOMMUNICATIONS OUTLET/CONNECTOR TO THE WORK AREA EQUIPMENT.

HORIZONTAL TELECOM CHANNEL LINK - ANSI / TIA 568.1-D

3 NOT TO SCALE



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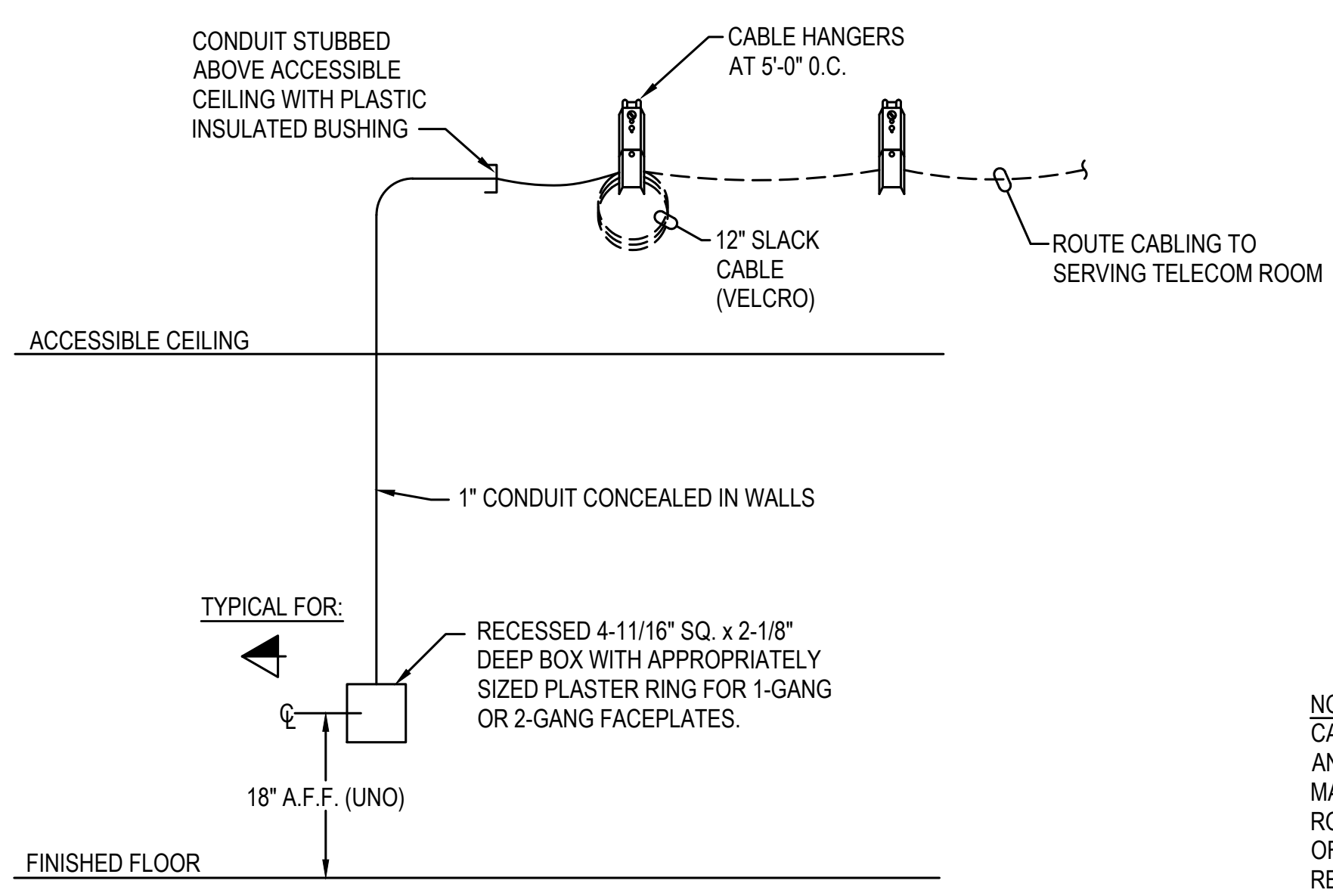
TELECOM DETAILS

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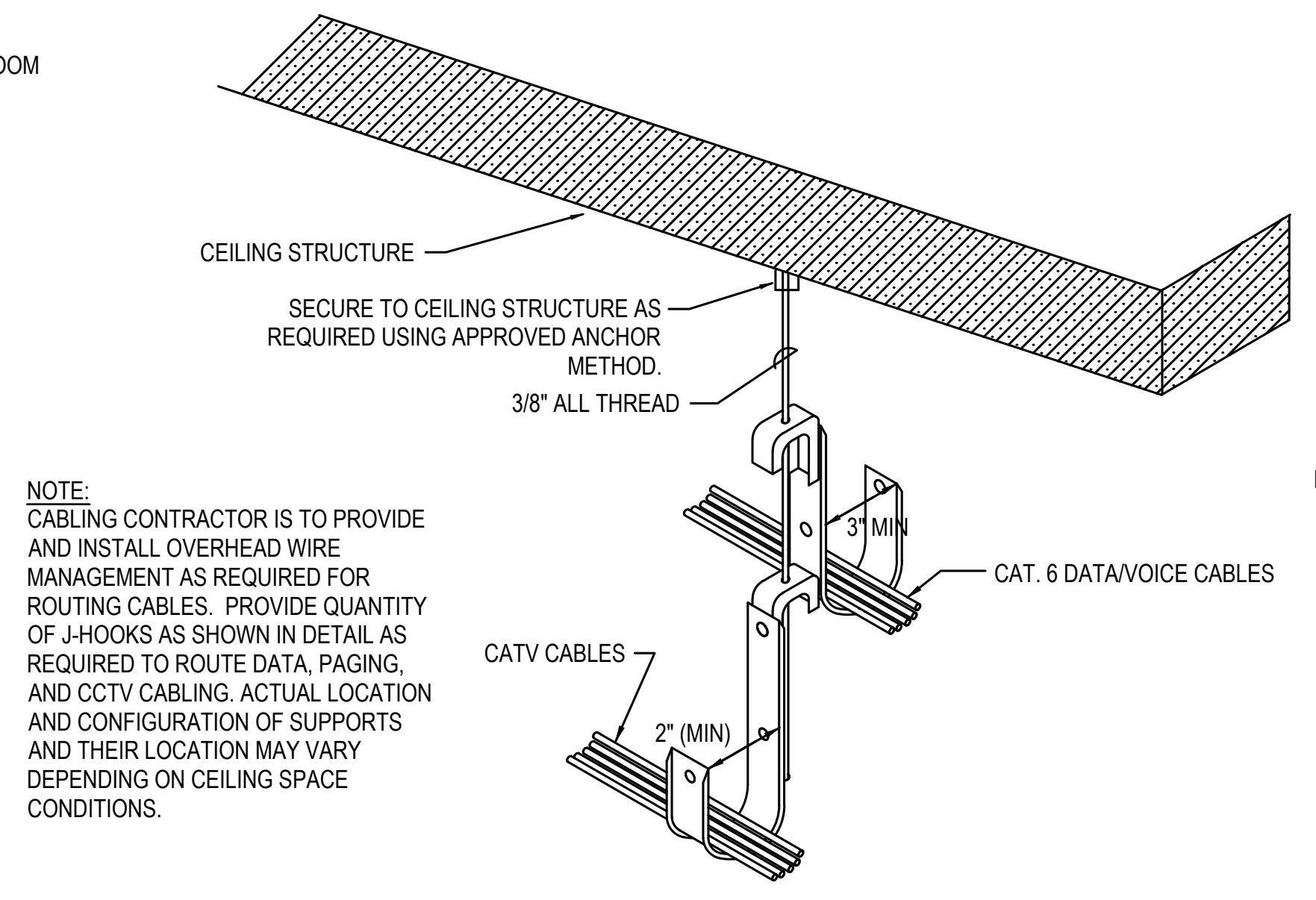
T201

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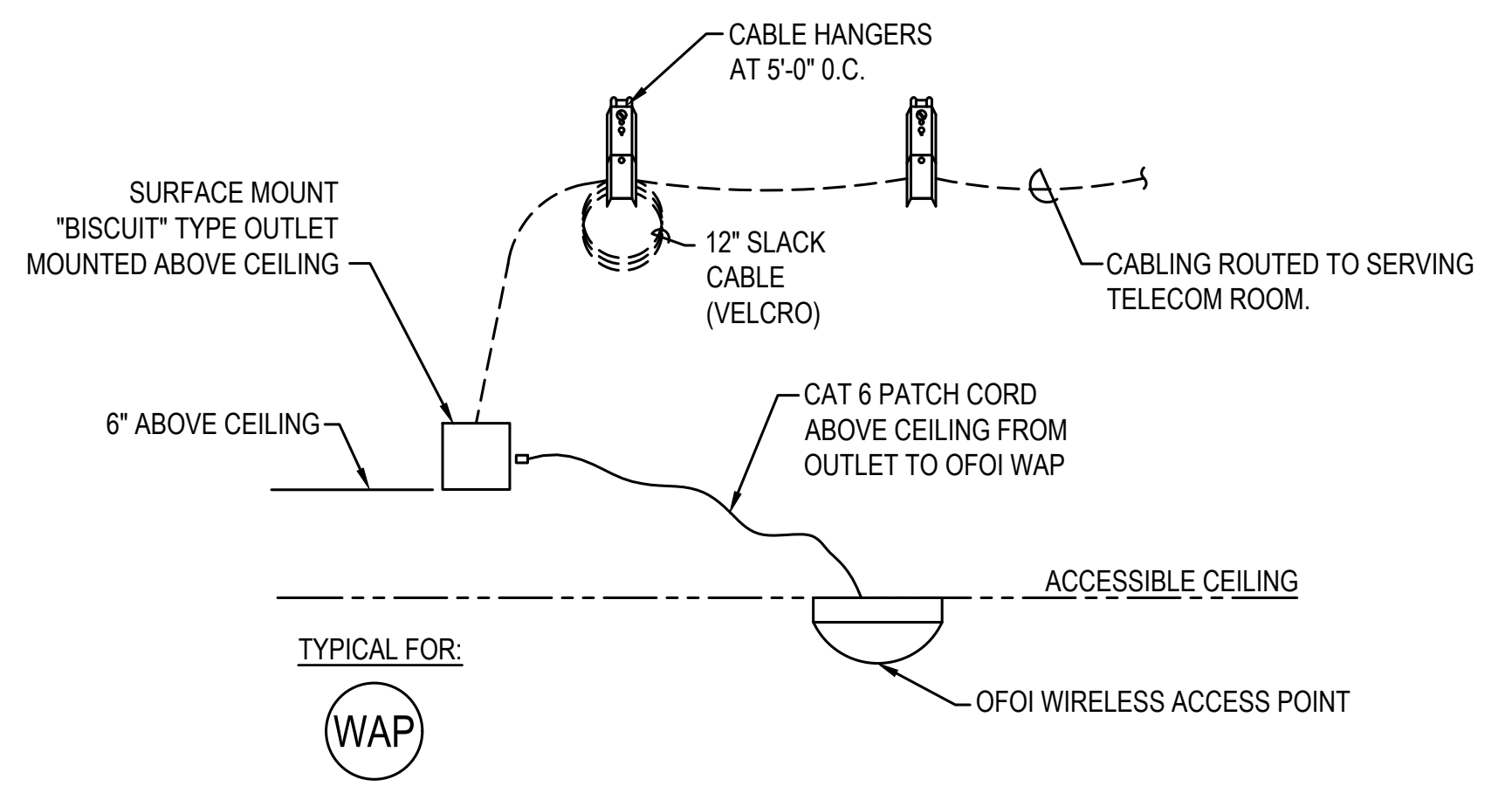


- NOTES:
- TELECOM OUTLET MOUNTING HEIGHT MAY VARY AT LOCATIONS OF FIXED CABINETS OR CASEWORK. LOCATE AND MOUNT OUTLETS AS DIRECTED BY THE TECHNICAL REPRESENTATIVE.
 - DO NOT INSTALL MORE THAN FOUR 4-PAIR CABLES IN A 1" CONDUIT.

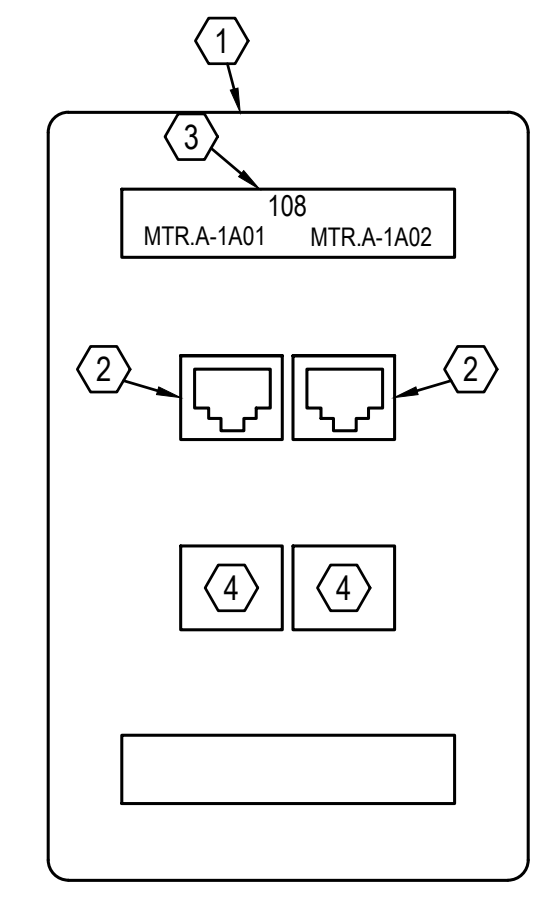
1 TELECOM OUTLET MOUNTING DETAIL - DEVICE CONDUIT AND CABLE HANGERS
NOT TO SCALE



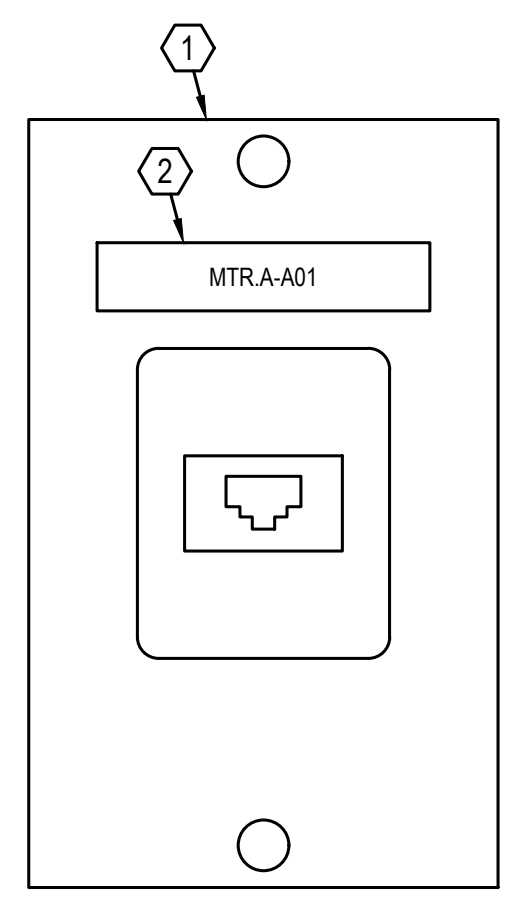
2 TYPICAL "J" HOOK MOUNTING DETAIL
NOT TO SCALE



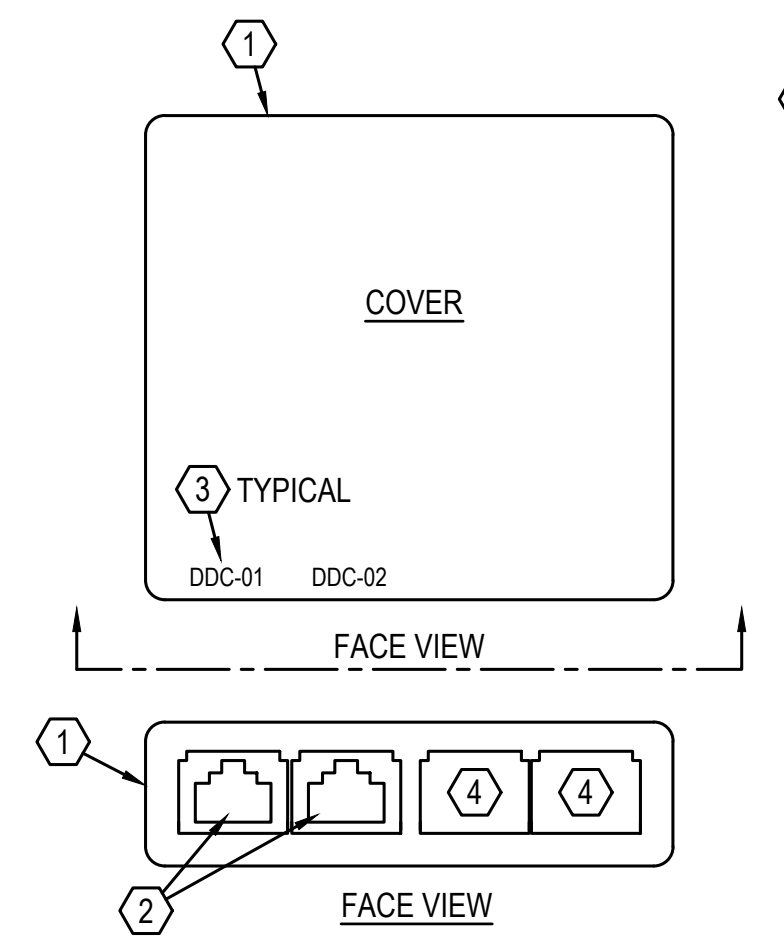
3 WIRELESS ACCESS POINT - CEILING MOUNTED
NOT TO SCALE



4 UNCLASSIFIED NETWORK (2-PORT) FACEPLATE DETAIL
NOT TO SCALE



5 WALL PHONE DETAIL - FACEPLATE
NOT TO SCALE



6 SURFACE MOUNT 'BISCUIT' OUTLET
NOT TO SCALE

- KEY NOTES:
- COMMUNICATIONS OUTLET FACEPLATE
 - SNAP-IN COUPLER; 8P8C, UNSHIELDED TWISTED PAIR (UTP), RJ-45 MODULAR JACK; COLORED NETWORK AS INDICATED IN TELECOM LEGEND.
 - COMMUNICATIONS OUTLET IDENTIFIER ON LASER PRINTED INSERT UNDER FACTORY PLASTIC COVER.
 - SNAP-IN BLANK MODULE, COLOR TO MATCH FACEPLATE COLOR.

- KEY NOTES:
- STAINLESS STEEL WALL PLATE, SINGLE GANG, SINGLE JACK, WITH LUGS FOR WALL PHONE MOUNTING. PROVIDE WITH 8P8C, UNSHIELDED TWISTED PAIR (UTP), RJ-45 MODULAR JACK ASSEMBLY; COLORED NETWORK AS INDICATED IN TELECOM LEGEND.
 - COMMUNICATIONS OUTLET IDENTIFIER ON LASER PRINTED INSERT UNDER FACTORY PLASTIC COVER.

- KEY NOTES:
- COMMUNICATIONS SURFACE MOUNT OUTLET BOX.
 - SNAP-IN COUPLER; 8P8C, CATEGORY 6 RJ-45 MODULAR JACK.
 - NETWORK OUTLET IDENTIFIER ON LASER PRINTED INSERT UNDER FACTORY PLASTIC COVER.
 - PROVIDE SNAP-IN BLANK COUPLER; COLOR TO MATCH SURFACE BOX COLOR.



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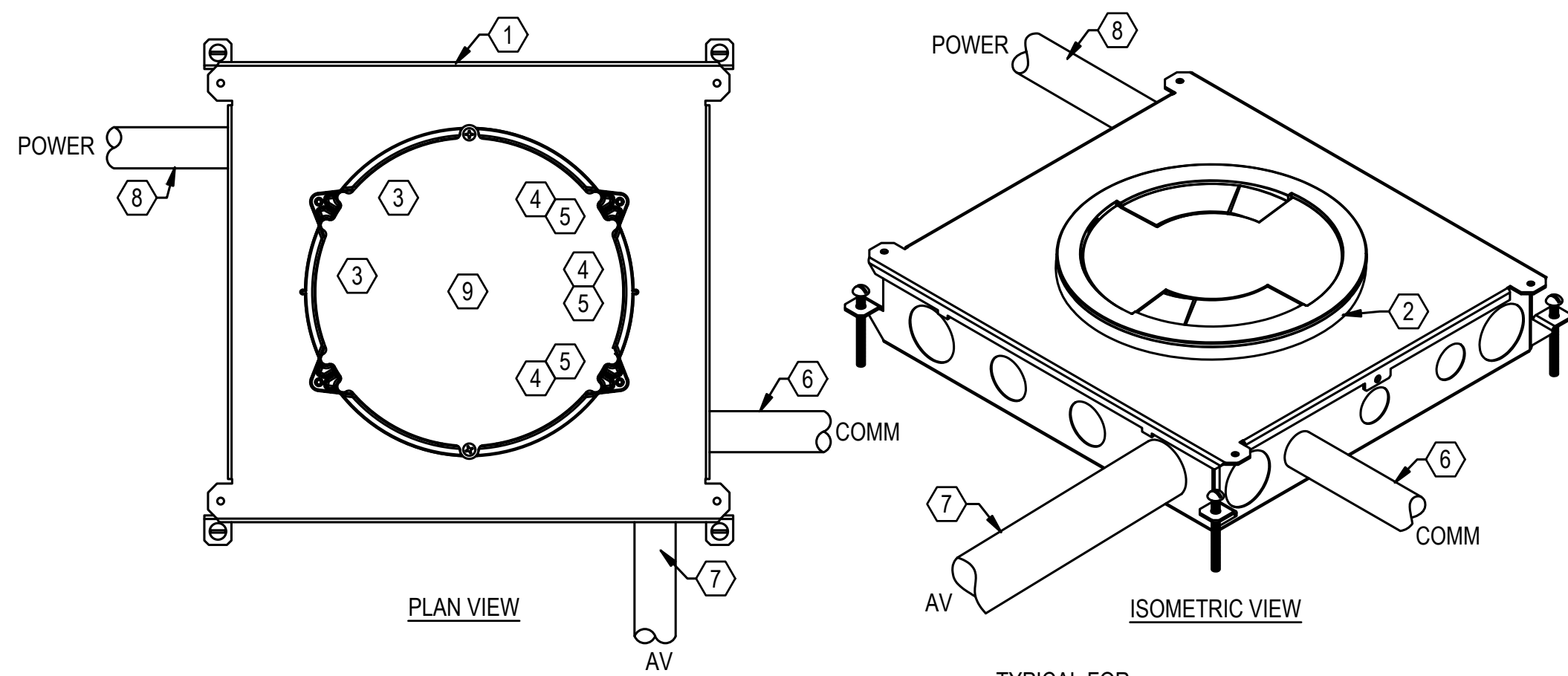
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No.	Description	Date

TELECOM DETAILS

Project number:	18106
Date:	06-20-2023
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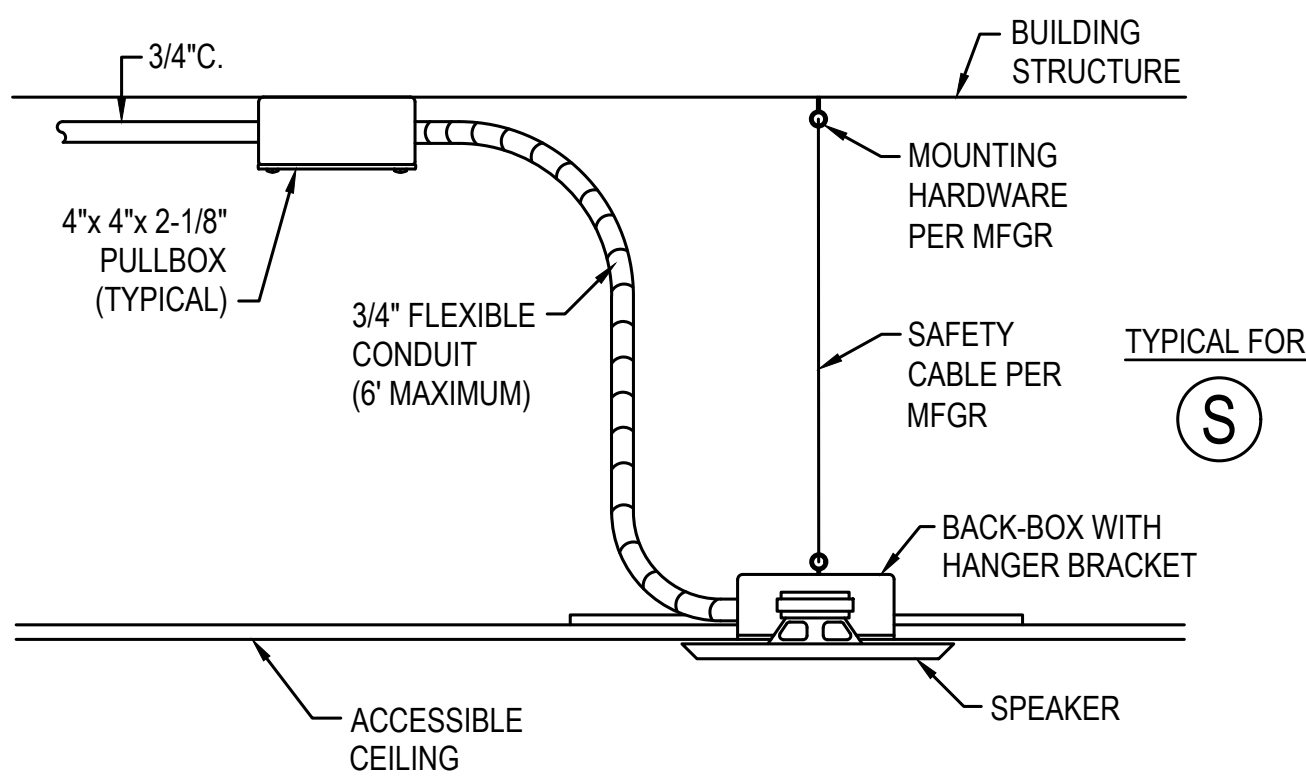
T202



KEY NOTES:

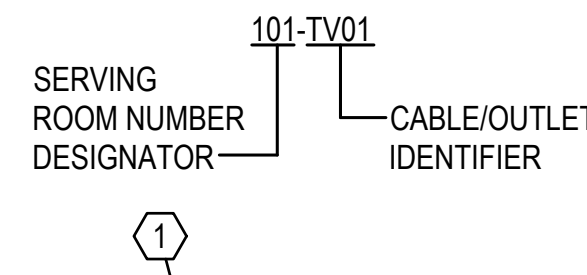
- MULTI-SERVICE MULTIMEDIA FLOORBOX, EQUAL TO LEGRAND WIREMOLD RESOURCE SERIES RFB6E (6) SIX COMPARTMENT SHALLOW STAMPED STEEL COMBINATION FLOOR BOX. INSTALL FLOOR BOX IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. SET BOTTOM OF BOX ON TOP OF VAPOR BARRIER, LEVEL, WITH TOP OF BOX TO BE FLUSH WITH SLAB.
- FLUSH STYLE DIE CAST ALUMINUM COVER ASSEMBLY; COORDINATE FINISH COLOR WITH TECHNICAL REPRESENTATIVE, AND FLOORING.
- INTERNAL DUPLEX RECEPTACLE PLATE WITH TWO 120 VAC OUTLET RECEPTACLES, EQUAL TO LEGRAND WIREMOLD RFB6DP. REFER TO ELECTRICAL PLANS FOR CIRCUITING REQUIREMENTS.
- COMMUNICATIONS DEVICE PLATES AS REQUIRED FOR SYSTEM DEVICES, EQUAL TO LEGRAND WIREMOLD RFB6GFI.
- CATEGORY 6 OUTLET, COUPLERS & JACKS INSTALLED BY ASSOCIATED SYSTEMS CONTRACTOR. REFER TO FLOOR PLANS FOR OUTLET/DEVICE TYPES.
- 1" SCHEDULE 40 PVC CONDUIT BELOW SLAB:
 - FOR NEW FACILITIES: HOMERUN UNDER SLAB CONDUIT TO SERVING TELECOM ROOM, CONVERT TO RGS WHEN ROUTING THRU SLAB AND STUB CONDUIT AT 4" ABOVE SLAB WITH BUSHING AND BOND TO TELECOM ROOM'S BUSBAR. SEAL STUBBED CONDUITS, FLOORBOX AND ALL CONNECTING CONDUITS AFTER CABLE INSTALLATION.
 - FOR RENOVATED FACILITIES: ROUTE UNDER SLAB CONDUIT TO NEAREST WALL, CONVERT TO RGS WHEN ROUTING THRU SLAB, THEN EMT ABOVE SLAB. ROUTE CONDUIT AND STUB TO LOCATION(S) INDICATED. SEAL FLOORBOX AND ALL CONNECTING CONDUITS AFTER CABLE INSTALLATION.
- 1-1/4" CONDUIT, RUN SCHEDULE 40 PVC (BELOW SLAB) TO NEAREST WALL, CONVERT TO RGS CONDUIT WHEN ROUTING THRU SLAB, THEN EMT ABOVE SLAB. ROUTE AND STUB CONDUIT TO SERVING AV EQUIPMENT LOCATION (UNO). SEAL FLOORBOX AND ALL CONNECTING CONDUITS AFTER CABLE INSTALLATION.
- POWER CONDUIT WITH WATERTIGHT FITTINGS, SEE ELECTRICAL PLANS AND SPECIFICATIONS.
- ADDITIONAL BLANK PLATES, GFI PLATES, AND DUPLEX RECEPTACLE PLATES FOR FURTHER DATA/POWER REQUIREMENTS. SEE FLOOR PLANS.

1 FLOOR BOX - COMM / AV / POWER
NOT TO SCALE



2 WALL MOUNT TV OUTLET ROUGH-IN DETAIL
NOT TO SCALE

TV OUTLET IDENTIFICATION NOMENCLATURE



EXAMPLE:
LABEL 101-TV01: "101" INDICATES A TELEVISION SYSTEM OUTLET SERVED BY ROOM 101. "TV01" INDICATES OUTLET COAXIAL CABLE NO. 01.

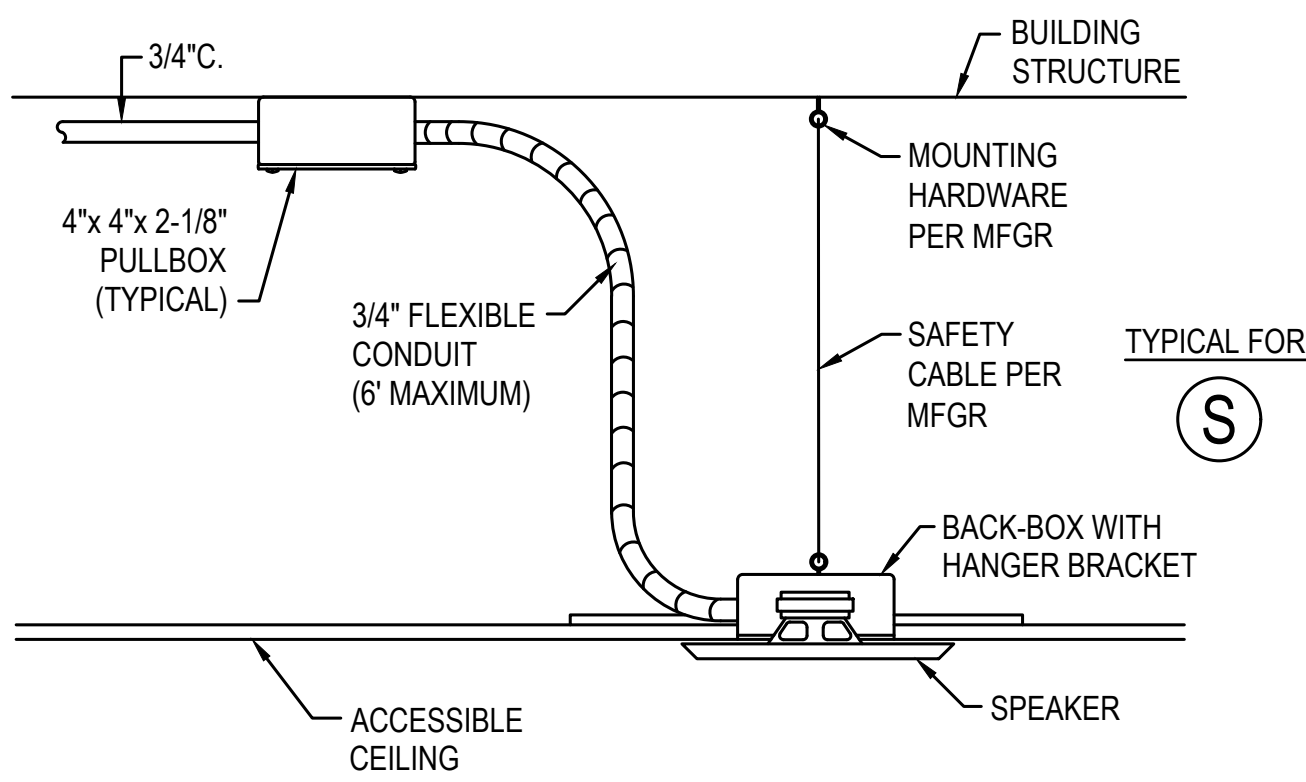
KEY NOTES:

- COMMUNICATIONS OUTLET FACEPLATE.
- SNAP-IN MODULE WITH ONE 'F'-TYPE COAXIAL CONNECTOR; COLOR TO MATCH FACEPLATE COLOR.
- TV OUTLET IDENTIFIER ON LASER PRINTED INSERT UNDER FACTORY PLASTIC COVER.
- SNAP-IN COUPLER; 8P8C, UNSHIELDED TWISTED PAIR (UTP), RJ-45 MODULAR JACK; COLORED NETWORK INDICATED.

TYPICAL FOR:

4 COAXIAL & CAT 6 TV OUTLET DETAIL - FACEPLATE
NOT TO SCALE

3 PAGING SPEAKER DETAIL - CEILING MOUNT
NOT TO SCALE



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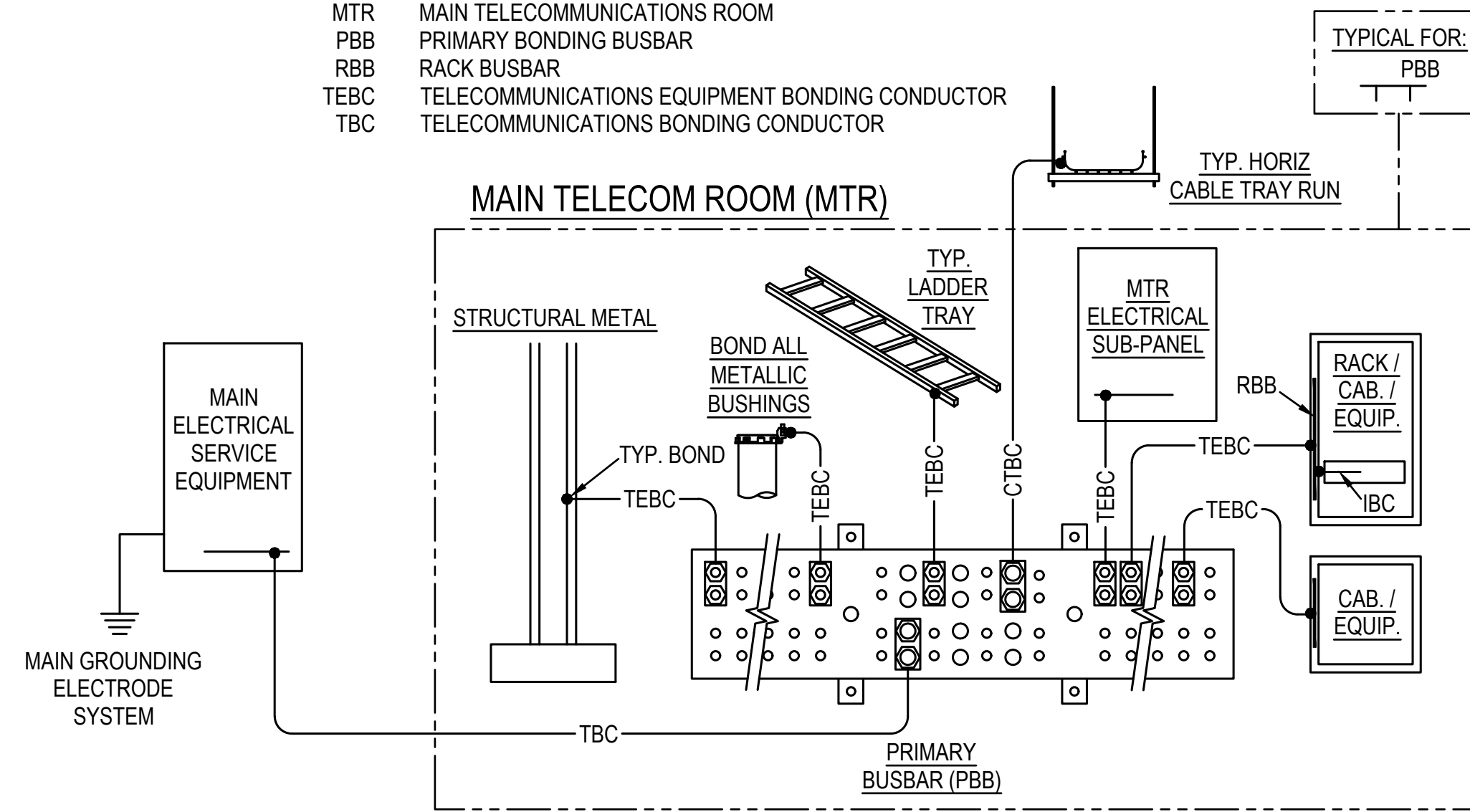
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TELECOM GROUNDING LEGEND:

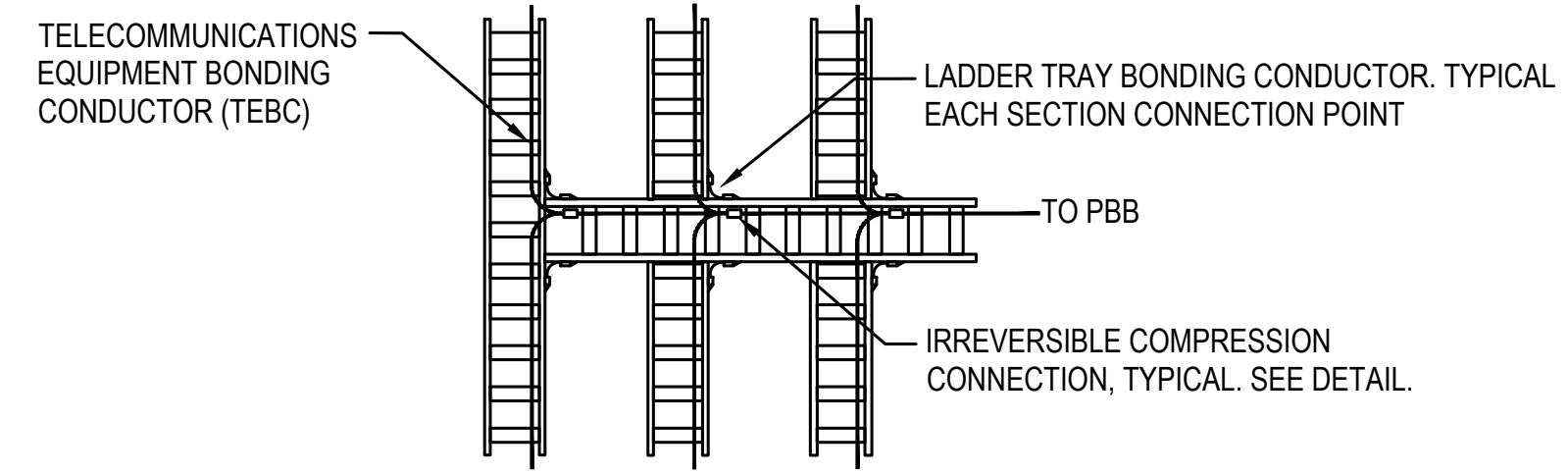
- CTBC CABLE TRAY BONDING CONDUCTOR
- IBC INDIVIDUAL BONDING CONDUCTOR
- MTR MAIN TELECOMMUNICATIONS ROOM
- PBB PRIMARY BONDING BUSBAR
- RBB RACK BUSBAR
- TEBC TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
- TBC TELECOMMUNICATIONS BONDING CONDUCTOR



BONDING CONDUCTOR SIZING CRITERIA

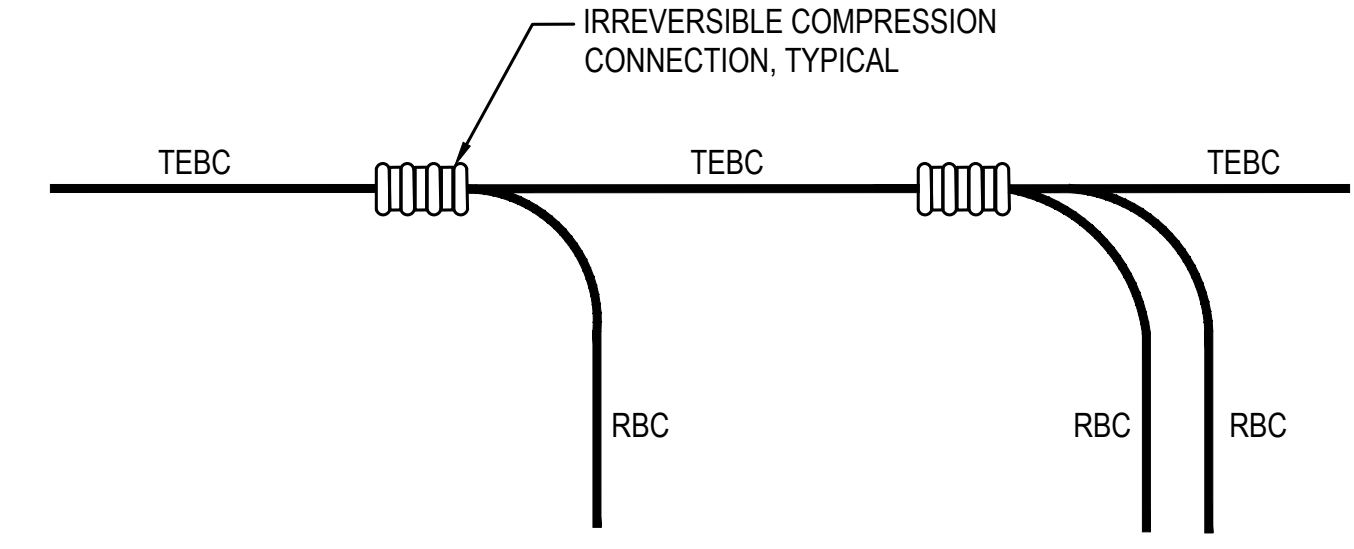
TBC LINEAR LENGTH (FEET)	TBC CONDUCTOR SIZE (AWG)
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
67 - 84	3/0
85 - 105	4/0
106 - 125	250 kcmil
126 - 150	300 kcmil
151 - 175	350 kcmil
176 - 250	500 kcmil
251 - 300	600 kcmil
GREATER THAN 301	750 kcmil

INFO BASED ON ANSI/TIA-607-C



LADDER TRAY GROUNDING / BONDING CONNECTION DETAIL

2 NOT TO SCALE



IRREVERSIBLE COMPRESSION CONNECTION DETAIL

3 NOT TO SCALE

TELECOM GROUNDING NOTES:

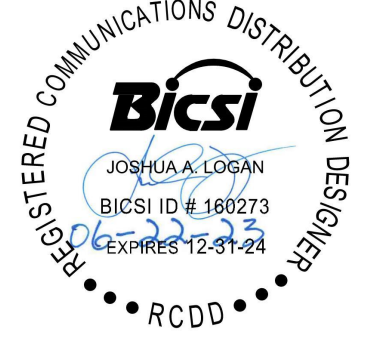
- PROVIDE TELECOMMUNICATIONS COPPER GROUNDING BUSBARS SUITABLE FOR INDOOR INSTALLATION IN ACCORDANCE WITH TIA-607. BUSBARS MUST BE MADE OF COPPER, OR COPPER ALLOYS HAVING A MINIMUM OF 95% CONDUCTIVITY WHEN ANNEALED AS SPECIFIED BY THE INTERNATIONAL ANNEALED COPPER STANDARD (IACS) AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- ALL BUSBARS MUST BE PRE-DRILLED, PROVIDED WITH HOLES FOR USE WITH STANDARD SIZED LUGS; BUSBARS MUST BE CLEANED, WITH AN ANTI-OXIDANT APPLIED PRIOR TO FASTENING CONNECTORS.
- FROM PBB BUSBAR LOCATION, RUN CONDUCTOR TO BUILDING SERVICE GROUND IN EMT CONDUIT.
- ALL BONDING CONDUCTORS SHALL HAVE A GREEN JACKET. WHERE BARE CONDUCTORS ARE SPECIFIED, THEY SHALL BE SUPPORTED BY STANDOFF INSULATORS AT INTERVALS NO GREATER THAN 2 FT OR BE CONTAINED IN ELECTRICAL NONMETALLIC TUBING (ENT). BARE BONDING CONDUCTORS SHALL NOT BE IN CONTACT WITH METALLIC SURFACES OR OTHER CONDUCTORS THAT ARE NOT PART OF THE TELECOMMUNICATIONS BONDING SYSTEM.
- BOND EACH CONDUIT AND CONDUIT SUPPORT STRUTS IN MTR WITH 6 AWG BONDING CONDUCTOR.
- PRIMARY BUSBAR - PBB (AKA TMGB): HAVE DIMENSIONS OF 6.35 MM (0.25 IN) THICK X 100 MM (4 IN) WIDE AND SIZED IN ACCORDANCE WITH THE IMMEDIATE APPLICATION REQUIREMENTS AND WITH CONSIDERATION OF FUTURE GROWTH.
- BONDS TO THE PBB: WHEN THE OUTSIDE PLANT CABLES IN THE TELECOMMUNICATIONS ENTRANCE ROOM OR SPACE INCORPORATE A CABLE SHIELD ISOLATION GAP, THE CABLE SHIELD ON THE BUILDING SIDE OF THE GAP SHALL BE BONDED TO THE PBB. ALL METALLIC PATHWAYS FOR TELECOMMUNICATIONS CABLING LOCATED WITHIN THE SAME ROOM OR SPACE AS THE PBB SHALL BE BONDED TO THE PBB. HOWEVER FOR METALLIC PATHWAYS CONTAINING BONDING CONDUCTORS WHERE THE PATHWAY IS BONDED TO THE BONDING CONDUCTOR, NO ADDITIONAL BOND TO THE PBB IS REQUIRED.
- CONNECTIONS TO THE PBB: THE CONNECTIONS OF THE TBC TO THE PBB SHALL UTILIZE EXOTHERMIC WELDING, LISTED COMPRESSION TWO-HOLE LUGS, OR LISTED EXOTHERMIC TWO-HOLE LUGS. THE CONNECTION OF CONDUCTORS FOR BONDING TELECOMMUNICATIONS EQUIPMENT AND TELECOMMUNICATIONS PATHWAYS TO THE PBB SHALL UTILIZE EXOTHERMIC WELDING, LISTED COMPRESSION TWO-HOLE LUGS, OR LISTED EXOTHERMIC TWO-HOLE LUGS.
- RACK BONDING BUSBAR (RBB): SHALL HAVE A MINIMUM CROSS-SECTIONAL AREA EQUAL TO A 6 AWG WIRE, AND BE LISTED. EQUIPMENT CONTAINING METALLIC PARTS AND PATCH PANELS FOR SHIELDED CABLING IN CABINETS AND RACKS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING SYSTEM IN ACCORDANCE WITH THE MANUFACTURER INSTRUCTIONS. WHERE INSTRUCTIONS ARE NOT GIVEN, ALL BONDING CONDUCTORS THAT CONNECT THESE INSTALLED PRODUCTS SHALL BE A MINIMUM SIZED CONDUCTOR OF 12 AWG. BOND ALL RACKS WITH 4 AWG CONDUCTOR; ROUTE CONDUCTOR ALONG RACK REAR AND IN CABLE RUNWAY TO GROUNDING BUSBAR.
- CABLE TRAY / METALLIC PATHWAYS: ALL METALLIC TELECOMMUNICATIONS PATHWAYS SHALL BE BONDED TO THE PBB. ADDITIONALLY, CABLE TRAY SECTIONS SHALL BE BONDED TOGETHER, AND TO THE PBB. BOND TRAYS TOGETHER BY CONNECTOR PLATES OF AN IDENTICAL TYPE AS THE CABLE TRAY SECTIONS. PROVIDE NO. 2 AWG BARE COPPER WIRE THROUGHOUT CABLE TRAY SYSTEM, AND BOND TO EACH SECTION, EXCEPT USE NO. 1/0 ALUMINUM WIRE IF CABLE TRAY IS ALUMINUM. TERMINATE CABLE TRAYS 10 INCHES FROM BOTH SIDES OF SMOKE AND FIRE PARTITIONS. INSTALL CONDUCTORS RUN THROUGH SMOKE AND FIRE PARTITIONS IN 103 MM 4 INCH RIGID STEEL CONDUITS WITH GROUNDING BUSHINGS, EXTENDING 305 MM 12 INCHES BEYOND EACH SIDE OF PARTITIONS. SEAL CONDUIT ON BOTH ENDS TO MAINTAIN SMOKE AND FIRE RATINGS OF PARTITIONS.
- BUILDING STRUCTURAL METAL: WHERE STRUCTURAL METAL IS ACCESSIBLE AND IN THE SAME ROOM AS THE PBB, THE PBB SHALL BE BONDED TO STRUCTURAL METAL USING A MINIMUM SIZED CONDUCTOR OF 6 AWG.
- RUN CONDUCTOR FROM BUSBAR LOCATION TO BUILDING SERVICE GROUND IN EMT CONDUIT. PROVIDE INSULATED GROUNDING BUSHING - AT CONDUIT ENDS AND GROUND PER NEC. GROUNDING TO BUILDING STRUCTURE, CONDUITS, UTILITY PIPING, OR ELECTRICAL SUBPANELS IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.

1 TELECOM GROUNDING / BONDING DETAIL

NOT TO SCALE



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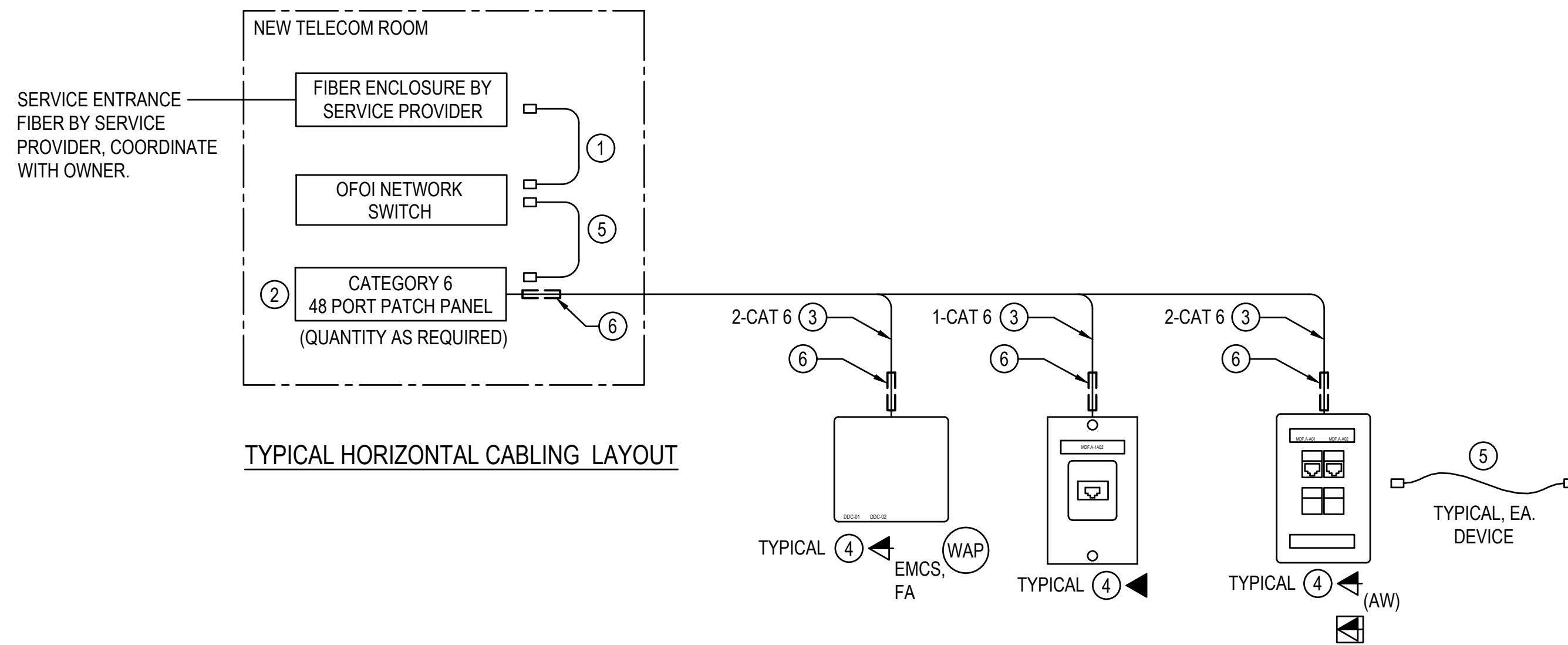
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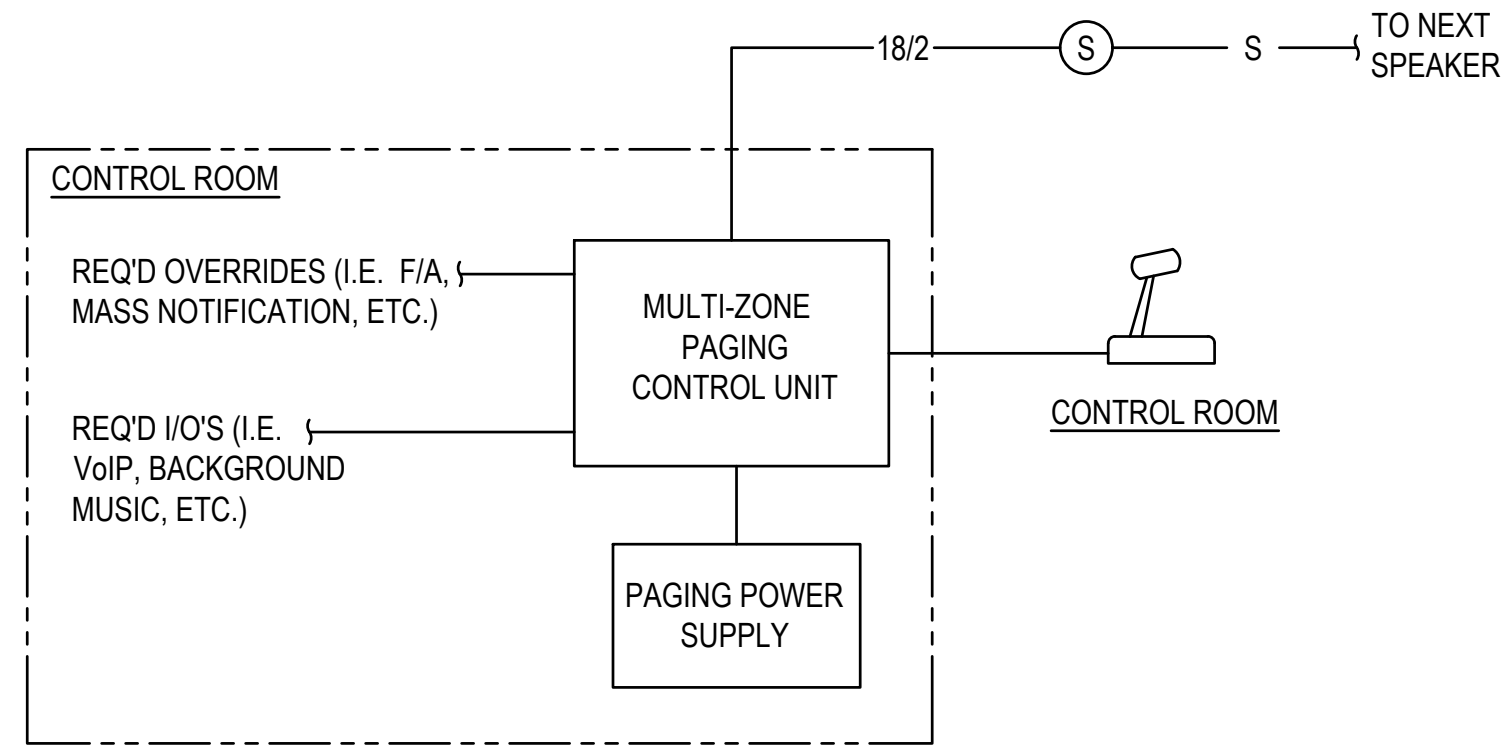


TYPICAL HORIZONTAL CABLING LAYOUT

TELECOM SINGLE LINE DIAGRAM NOTES:

1. FIBER OPTIC PATCH CORD; DUAL STRAND, DIELECTRIC, PRE-MANUFACTURED, FACTORY TERMINATED AND TESTED. PROVIDE QUANTITY AS REQUIRED, PLUS 10% SPARE. PATCH CORD TYPE, MODULE, AND COLOR TO MATCH SERVING DEVICES. CONFIRM ALL PATCH CORD REQUIREMENTS WITH TECHNICAL REPRESENTATIVE (UNO).
2. CATEGORY 6 HORIZONTAL PATCH PANEL WITH 8P8C UTP (UNSHIELDED TWISTED PAIR) MODULAR JACKS, COLOR TO MATCH FACEPLATE JACK; PROVIDE WITH REAR CABLE MANAGERS. LABEL JACKS ACCORDING TO OWNER'S TECHNICAL REPRESENTATIVE'S REQUIREMENTS OR ADHERE TO TIA 606 LABELING STANDARDS. PROVIDE INDICATED PORT QUANTITY.
3. CATEGORY 6 HORIZONTAL WIRING; UTP (UNSHIELDED TWISTED PAIR), 4-PAIR, 23 AWG, PLENUM RATED (IF REQUIRED) PER NFPA, MAXIMUM INSTALLED LENGTH 90 METERS (295'), TERMINATED TO T568A PINOUT ARRANGEMENT.
4. DATA / VOICE OUTLET WITH CATEGORY 6 8P8C UTP (UNSHIELDED TWISTED PAIR) MODULAR JACKS FOR DATA/VOICE CONNECTIONS, TERMINATED TO T568A PINOUT ARRANGEMENT.
5. CATEGORY 6 PATCH CORDS WITH UTP (UNSHIELDED TWISTED PAIR) 8P8C MODULAR PLUG, PRE-MANUFACTURED WITH NO BOOT, FACTORY TERMINATED AND TESTED TO T568A PINOUT ARRANGEMENT. COLOR TO MATCH SYSTEM JACK. PROVIDE QUANTITY OF PATCH CORDS AS REQUIRED PLUS 10% SPARE.
6. DEVICE DESTINATION CABLE LABELING, PER ANSI/TIA LABELING STANDARDS.

1 DATA / VOICE SINGLE LINE DIAGRAM
NOT TO SCALE



2 PUBLIC ADDRESS SYSTEM
SINGLE LINE DIAGRAM
NOT TO SCALE

PUBLIC ADDRESS SYSTEM BASIS OF DESIGN:

1. OVERALL PAGING SYSTEM SHALL BE AN ANALOG BASED, MULTI-ZONE SYSTEM, COMPLETE WITH PAGING CONTROL UNIT, MICROPHONE, APPLICABLE ANALOG & VoIP INTERFACES, POWER SUPPLIES, AMPLIFIERS, SPEAKERS, CABLING FOR A TURNKEY PAGING SYSTEM.
2. BASIS OF DESIGN PAGING CONTROL UNIT SHALL BE EQUAL TO VALCOM V-2006A, WITH 2'x2' CEILING SPEAKERS (EQUAL TO VALCOM V-9022A-2), AND SURFACE MOUNT VANDAL RESISTANT SPEAKERS (EQUAL TO VALCOM V-9880).

DAG

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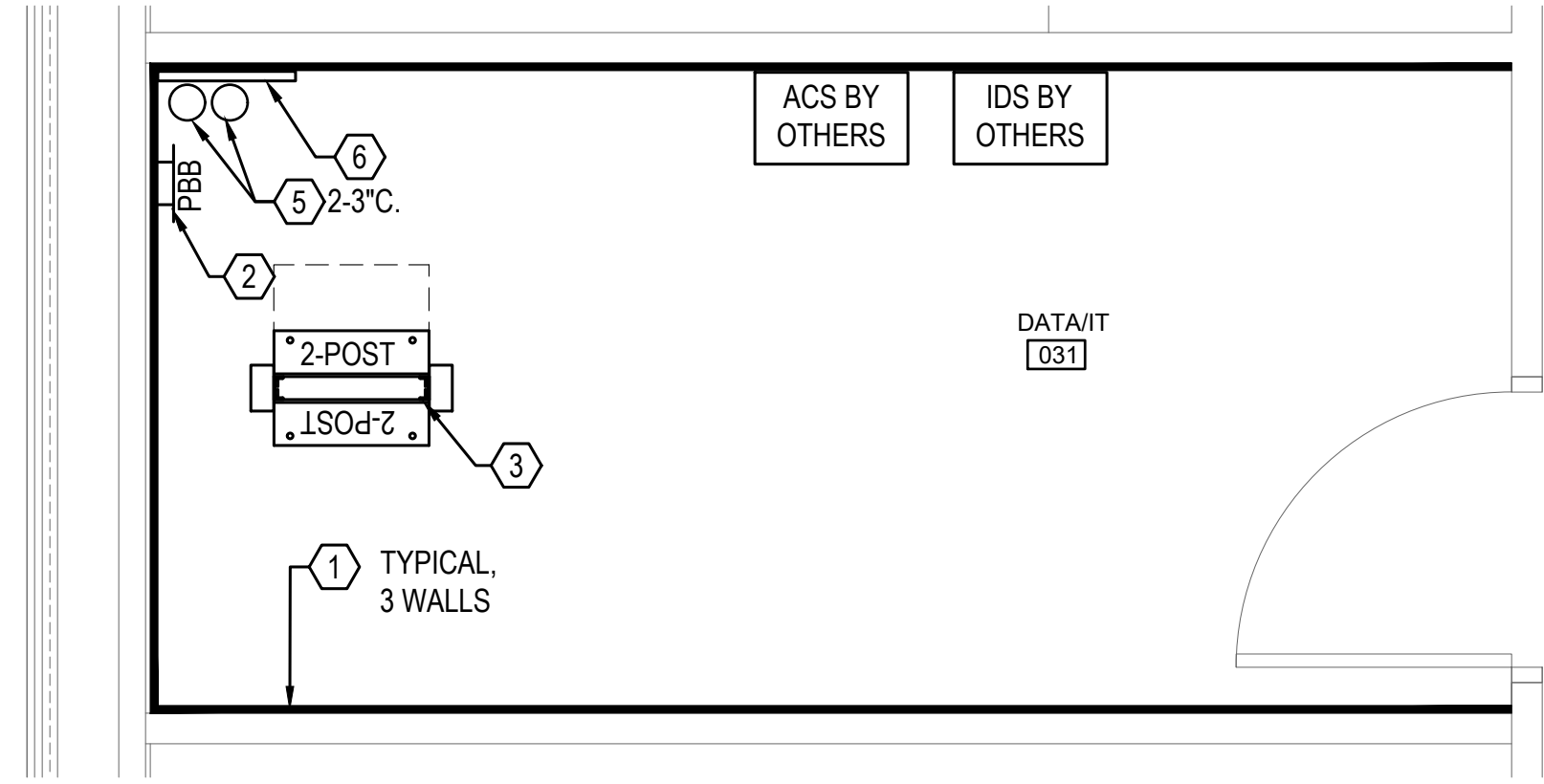
TELECOM SINGLE LINE DIAGRAMS

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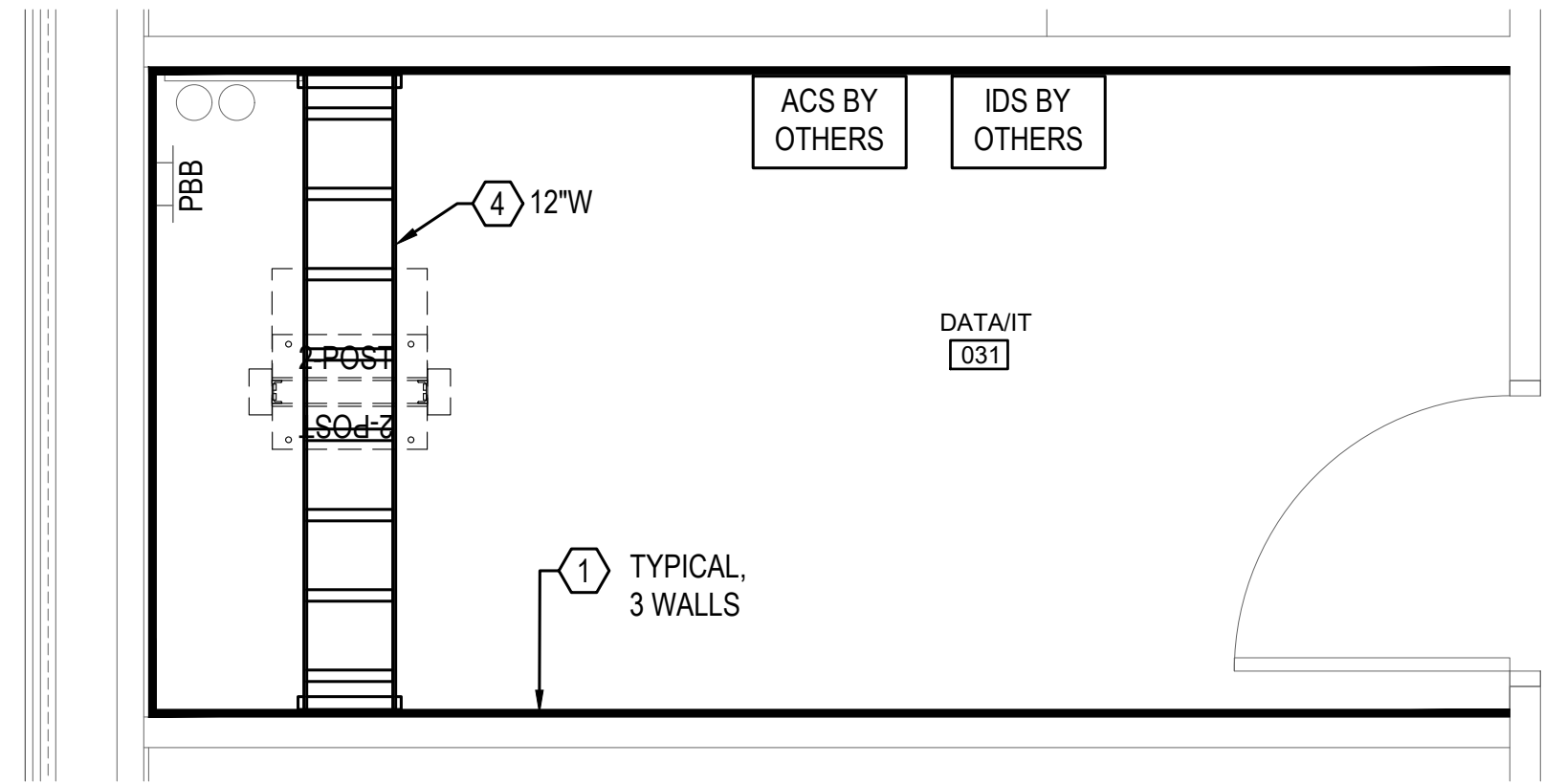


T301

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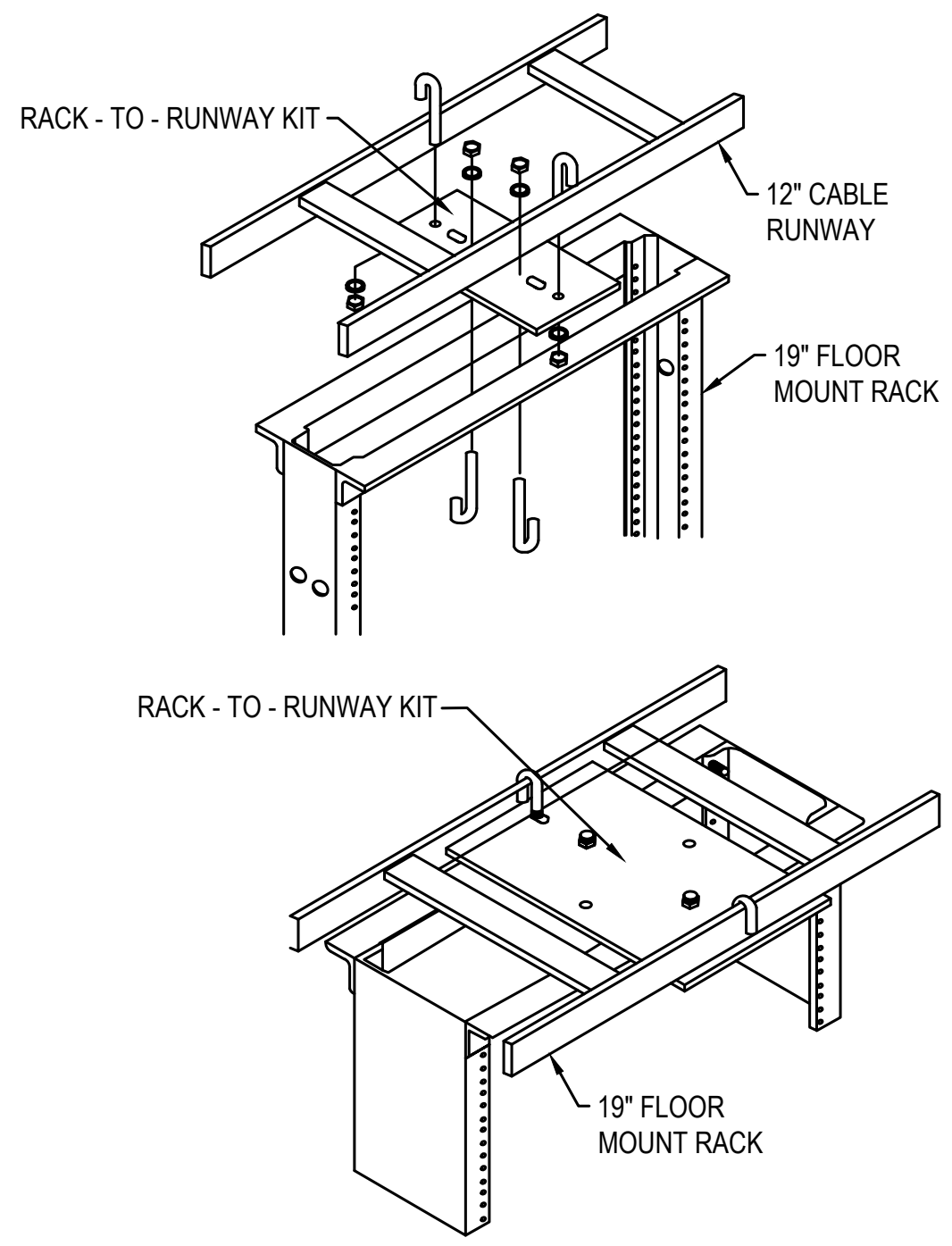


ENLARGED MAIN TELECOM ROOM (MTR) 031 - EQUIPMENT PLAN
 SCALE: 1/2"=1'-0"



ENLARGED MAIN TELECOM ROOM (MTR) 031 - OVERHEAD TRAY PLAN
 SCALE: 1/2"=1'-0"

- KEY NOTES:**
1. PLYWOOD BACKBOARD, 8'-0" H X WIDTH AS SHOWN, MOUNTED ON WALLS INDICATED; MOUNT WITH BOTTOM AT 6" ABOVE FINISH FLOOR, COUNTERSINK ALL SCREWS. ROUGH ALL ELECTRICAL OUTLETS IN BACKBOARD FOR FLUSH MOUNT INSTALLATION OF FACEPLATES. BACKBOARDS SHALL BE 5/8" THICK A-C GRADE FIRE-RATED PLYWOOD, WITH "A" SIDE OUT, BEARING THE MANUFACTURER'S STAMP, WITH FIRE-RETARDANT BATTLESHIP GRAY PAINT.
 2. PRIMARY BONDING BUSBAR (PBB), REFER TO TELECOM GROUNDING / BONDING DETAILS, SHEET T204.
 3. 2-POST EQUIPMENT RACK, REFER TO RACK ELEVATION, SHEET T501.
 4. CABLE RUNWAY (WIDTH INDICATED). PROVIDE BUTT-SPLICE KIT TO BUTT-SPLICE SECTIONS, WALL ANGLE SUPPORT KITS, CEILING SUPPORT BRACKETS, AND JUNCTION SPLICE KITS OF CABLE RUNWAY. INSTALL ALL CABLE RUNWAY, FITTINGS, AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
 5. COMMUNICATIONS SERVICE/BACKBONE CABLING CONDUIT. REFER TO T101 FOR SIZE/QUANTITY.
 6. 18" WIDE VERTICAL CABLE RUNWAY, SEE DETAIL.



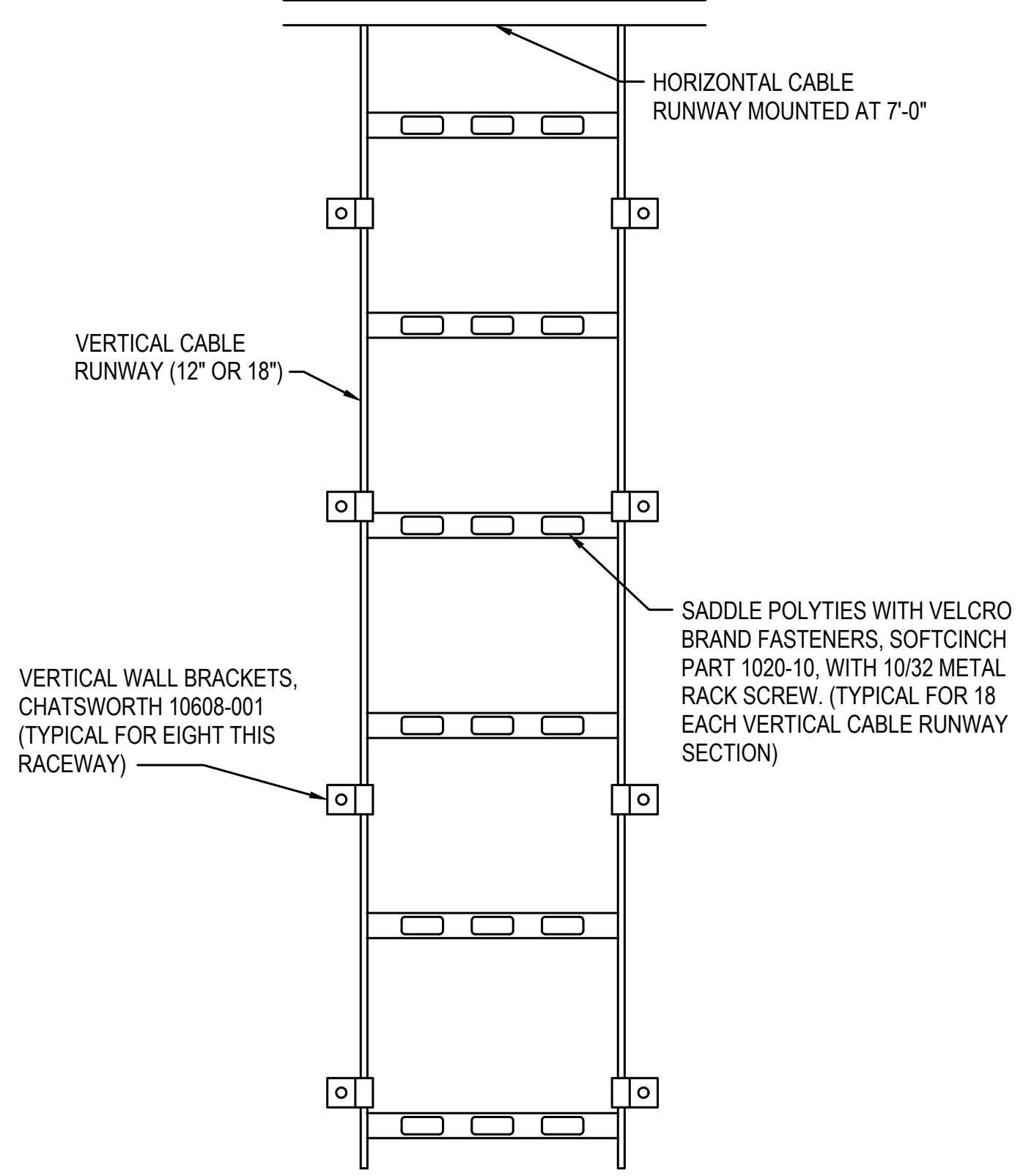
3 TYPICAL RUNWAY TO RACK SUPPORT DETAIL
 NOT TO SCALE

CABLE RUNWAY MOUNTING HEIGHT NOTE
 BOTTOM OF CABLE RUNWAY MUST BE MOUNTED AT EXACTLY 7'-0" ABOVE THE FINISHED FLOOR TO ALLOW INSTALLATION OF 7'-0" HIGH RACKS (UNLESS NOTED OTHERWISE).

GENERAL CABLE RUNWAY NOTE
 PROVIDE ALL FACTORY COMPONENTS MATCHING CABLE RUNWAY SPECIFIED FOR THE FOLLOWING:

BUTT-SPLICE KITS
 TRIANGULAR WALL SUPPORTS
 RADIUS BENDS
 CABLE RUNWAY RADIUS DROPS
 JUNCTION SPLICE KITS
 ALL-THREAD SUPPORT BRACKETS
 FOOT-MOUNTS
 WALL-ANGLE SUPPORTS

INSTALL ALL CABLE RUNWAY AND RELATED FITTING AND ACCESSORIES ACCORDING TO THE MANUFACTURER'S PRINTED INSTRUCTIONS, UNLESS OTHERWISE NOTED.



4 TYPICAL VERTICAL CABLE RUNWAY DETAIL
 NOT TO SCALE



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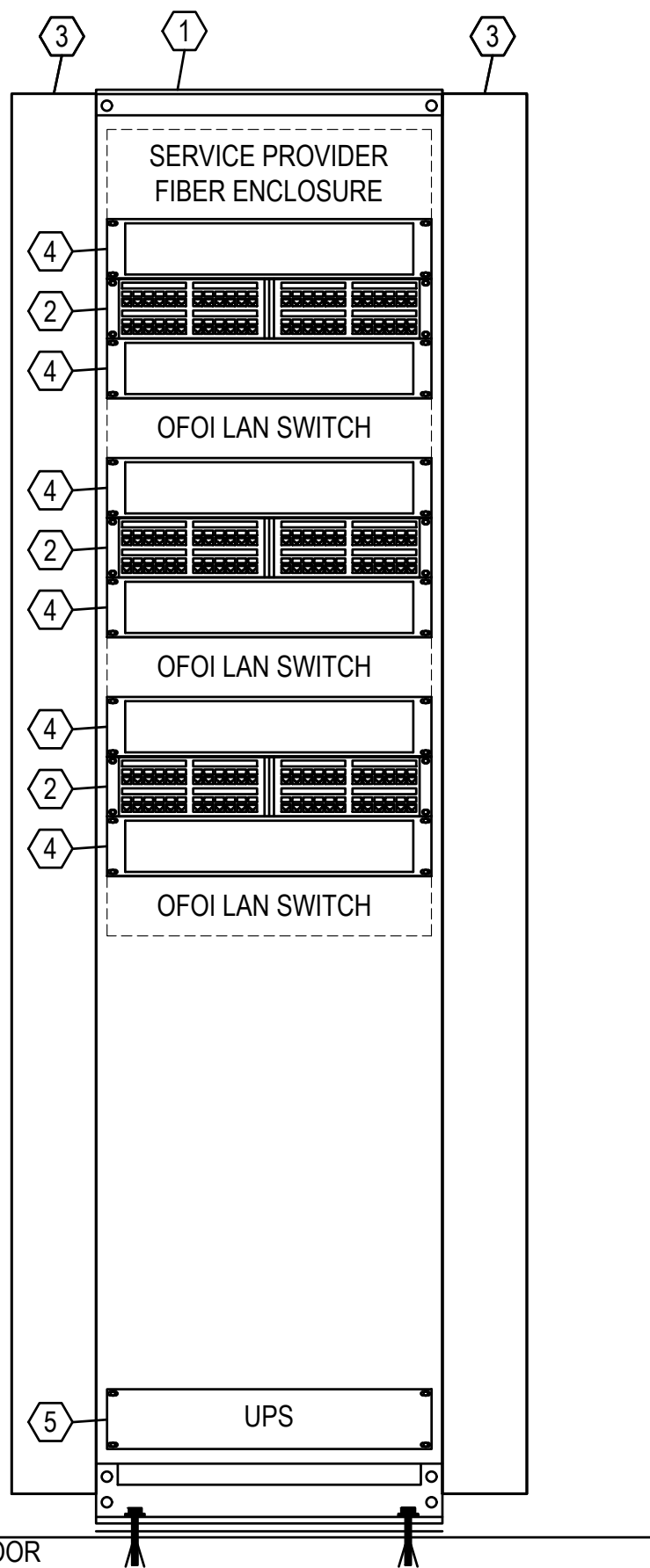
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TELECOM ENLARGED PLANS

Project number: 18106
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T401



1 RACK ELEVATION
NOT TO SCALE

GENERAL NOTES:

1. QUANTITY OF PATCH PANELS SHOWN IS ARBITRARY, CONFIRM OUTLET QUANTITIES WITH FLOOR PLANS.
2. FOR SINGLE LINE DIAGRAMS, REFER TO SHEET T301.

⬡ KEY NOTES:

1. STANDARD 7'-0"H x 19"W FLOOR MOUNT 2-POST RACK, COLOR BLACK. REFER TO SPECIFICATIONS.
2. CATEGORY 6 HORIZONTAL PATCH PANEL.
3. VERTICAL RACK CABLING MANAGEMENT WITH FRONT & REAR SOLID DOORS, SIZE 3"W X 6"D X 7'H, COLOR BLACK.
4. HORIZONTAL CABLE MANAGER, 2RU, ON FRONT SIDE OF RACK WITH SOLID COVER TO CONCEAL CABLES.
5. 2200VA 120V INPUT RACK MOUNTED UPS.

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TELECOM RACK ELEVATIONS

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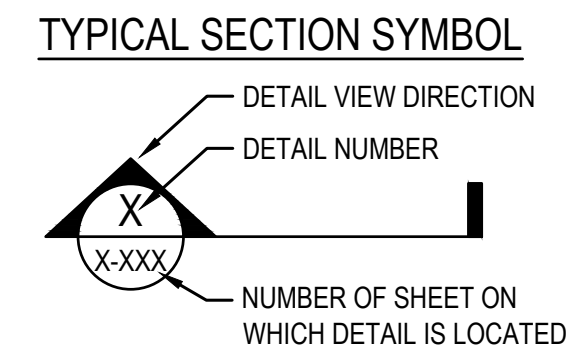
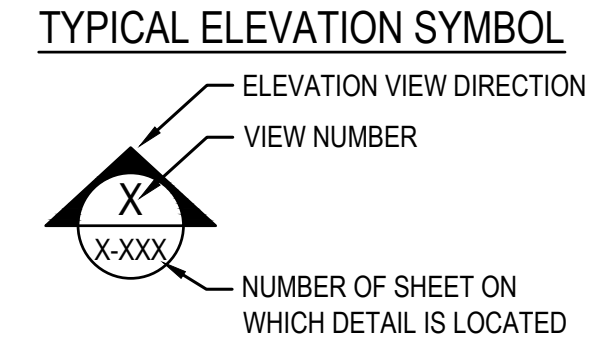
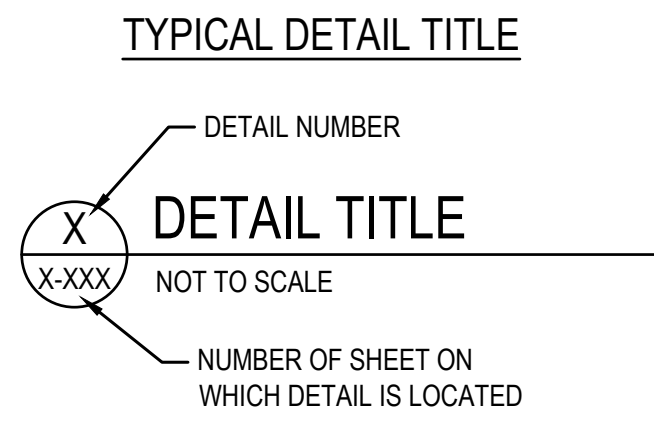
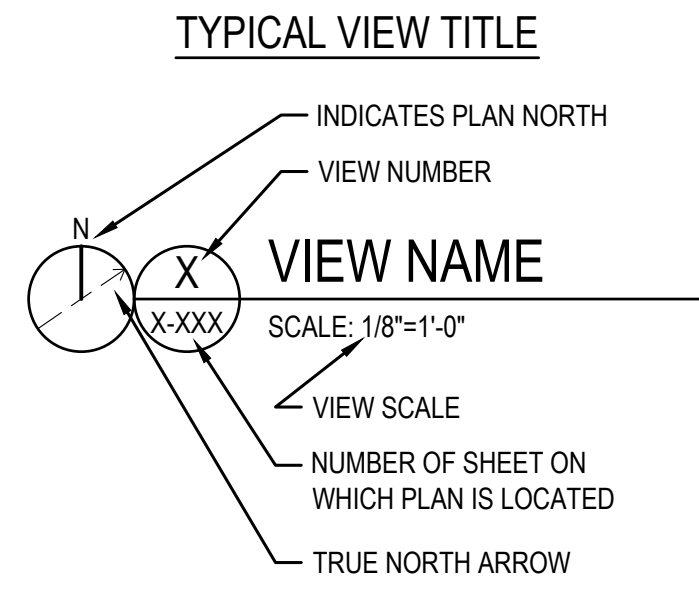
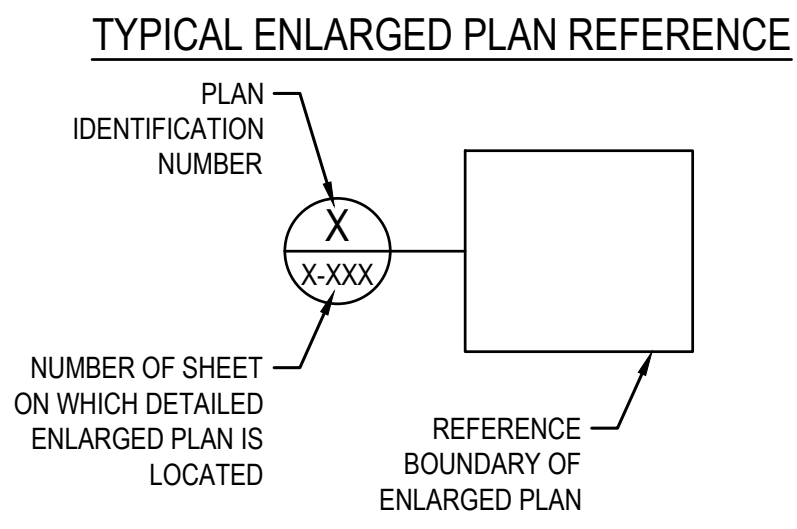
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SECURITY SYSTEMS LEGEND	
DEVICE SYMBOL	DESCRIPTION
	CAMERA SURVEILLANCE SYSTEM (CCTV)
	CEILING MOUNTED CAMERA - INTERIOR
	WALL MOUNTED CAMERA - INTERIOR
	WALL MOUNTED CAMERA - EXTERIOR
	CCTV SYSTEM HEADEND EQUIPMENT LOCATION
	ACCESS CONTROL SYSTEM (ACS)
	CARD READER - EXTERIOR
	ACS HEADEND EQUIPMENT LOCATION
	INTRUSION DETECTION SYSTEM (IDS)
	CEILING MOUNTED MOTION DETECTOR
	WALL MOUNTED MOTION DETECTOR
	CEILING MOUNTED GLASS BREAK SENSOR
	WALL MOUNTED GLASS BREAK SENSOR
	BALANCED MAGNETIC SWITCH
	WALL MOUNTED KEY PAD
	IDS HEADEND EQUIPMENT LOCATION

SYSTEMS ANNOTATION LEGEND

- SHEET NOTE
- LEADER
- DIAGRAM NOTE
- DIAGRAM LEADER
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- CONDUIT STUB

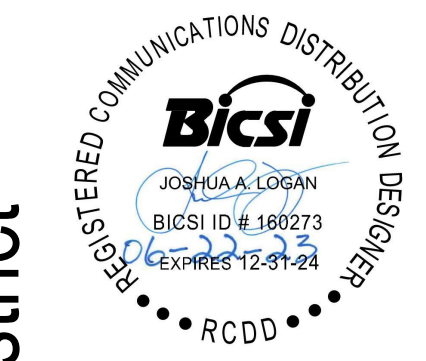


SECURITY ABBREVIATIONS:

- AFF ABOVE FINISH FLOOR
- ACS ACCESS CONTROL SYSTEM
- ADA AMERICANS WITH DISABILITIES ACT
- AIA AMERICAN INSTITUTE OF ARCHITECTS
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- AWG AMERICAN WIRE GAUGE
- ARCH ARCHITECTURAL
- AHJ AUTHORITY HAVING JURISDICTION
- BMS BALANCED MAGNETIC SWITCH
- BBC BONDING BACKBONE CONDUCTOR
- CR CARD READER
- CAT 3 CATEGORY 3
- CAT 5E CATEGORY 5 ENHANCED
- CAT 6 CATEGORY 6
- CAT 6A CATEGORY 6 AUGMENTED
- CO COMMUNICATIONS OUTLET
- CONDUIT
- CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
- CFGI CONTRACTOR FURNISHED, GOVERNMENT INSTALLED
- DDC DIRECT DIGITAL CONTROLS
- DEMARC DEMARCATION
- DS DOOR SWITCH
- EL ELECTRIC LOCK
- ELEC ELECTRICAL
- ES ELECTRIC STRIKE
- ESS ELECTRONIC SECURITY SYSTEM
- EMI ELECTROMAGNETIC INTERFERENCE
- EMS ENERGY MANAGEMENT SYSTEM
- EMT ELECTRICAL METALLIC TUBING
- FCC FEDERAL COMMUNICATIONS COMMISSION
- FO FIBER OPTIC
- GFCI GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
- GFGI GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
- H HANDHOLE
- IC INTERCOM
- IDS INTRUSION DETECTION SYSTEM
- KP KEY PAD
- LAN LOCAL AREA NETWORK
- LC LUCENT CONNECTOR
- MTR MAIN TELECOMMUNICATIONS ROOM
- M MAINTENANCE HOLE
- MAX MAXIMUM
- um MICRON / MICROMETER
- MIN MINIMUM
- MM MULTIMODE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NEC NATIONAL ELECTRICAL CODE
- NESC NATIONAL ELECTRICAL SAFETY CODE
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- N/A NOT APPLICABLE
- NIC NOT IN CONTRACT
- NVR NETWORK VIDEO RECORDER
- O.C. ON CENTER
- OSP OUTSIDE PLANT
- PR PROXIMITY READER
- PP PATCH PANEL
- PVC POLYVINYL CHLORIDE
- PB PULL BOX
- PBB PRIMARY BONDING BUSBAR
- RMU RACK MOUNTED UNIT
- RX REQUEST TO EXIT
- RM ROOM
- R/I ROUGH-IN
- ScTP SCREENED TWISTED-PAIR
- SBB SECONDARY BONDING BUSBAR
- STP SHIELDED TWISTED-PAIR
- SM SINGLEMODE
- SF SURFACE MOUNT
- STR STRANDS
- TR TELECOMMUNICATIONS ROOM
- TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION
- UL UNDERWRITERS LABORATORIES INC
- UPS UNINTERRUPTIBLE POWER SUPPLY
- UTP UNSHIELDED TWISTED-PAIR
- TYP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- VoIP VOICE OVER INTERNET PROTOCOL



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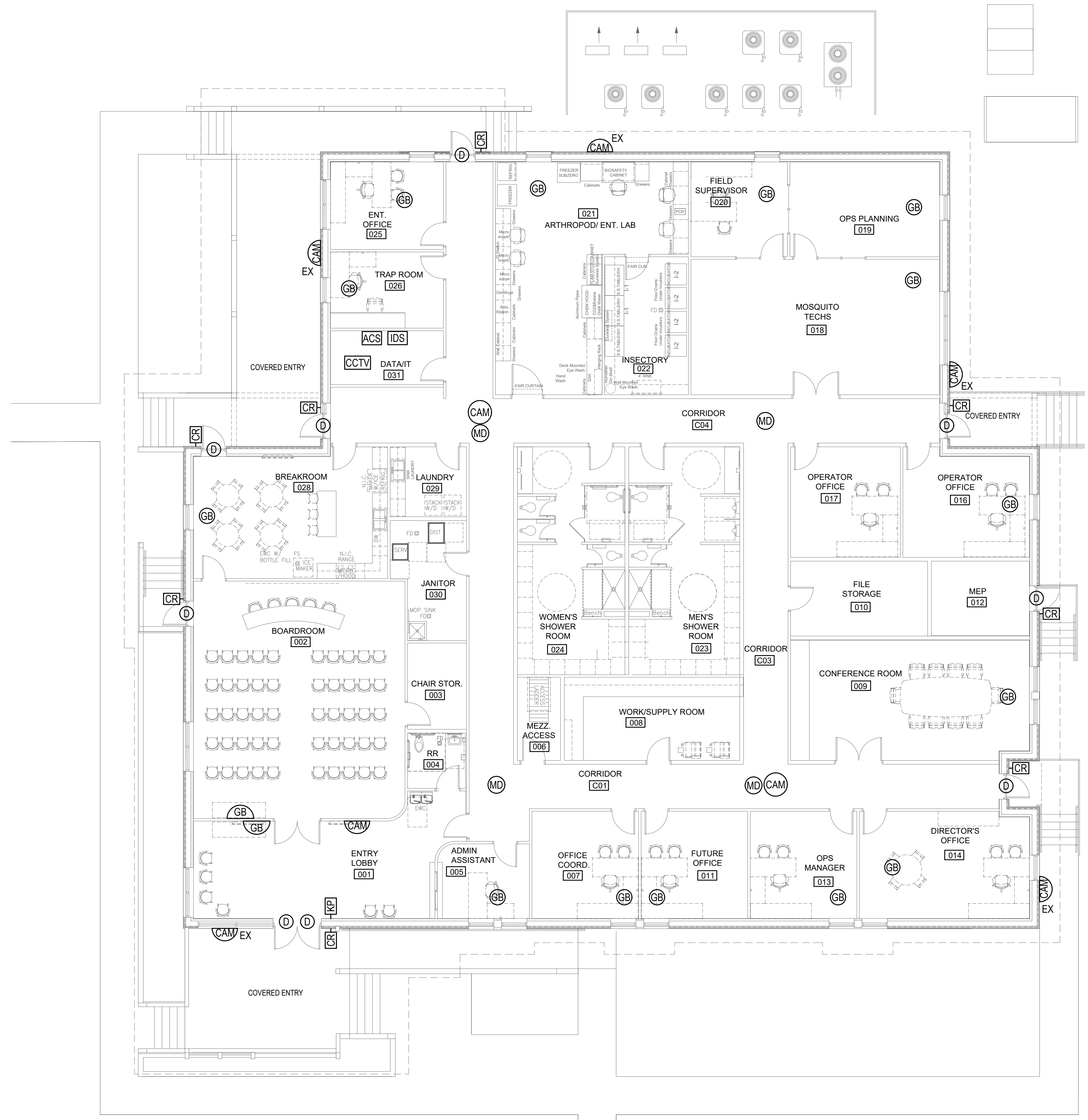
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ADDITIONAL NOTES:
1. VERIFY ALL INSTRUMENTS OF SERVICE
2. VERIFY ALL INSTRUMENTS OF SERVICE
3. VERIFY ALL INSTRUMENTS OF SERVICE



1
TY111
SCALE: 1/8"=1'-0"

8' 0' 8' 16'
SCALE: 1/8"=1'-0"



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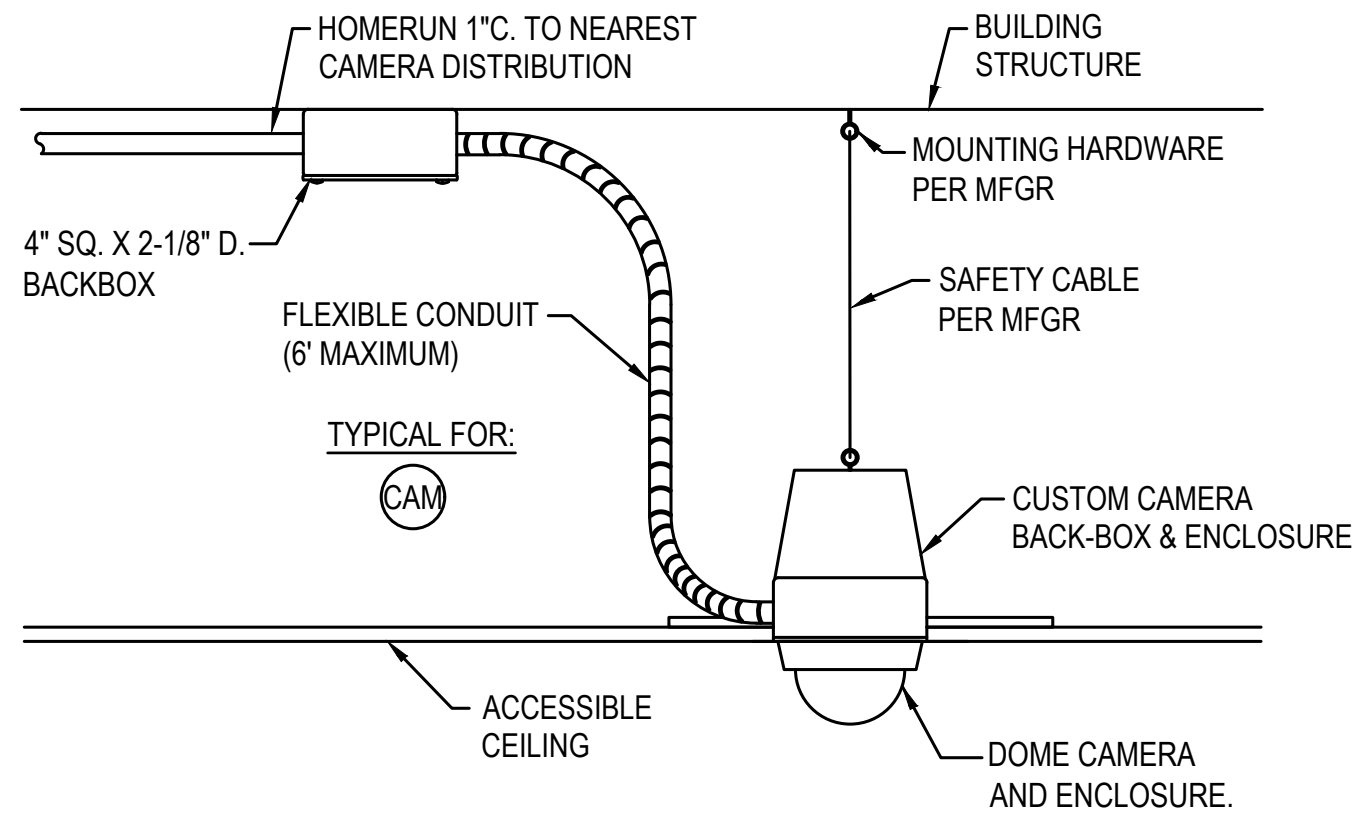
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SECURITY FLOOR PLAN

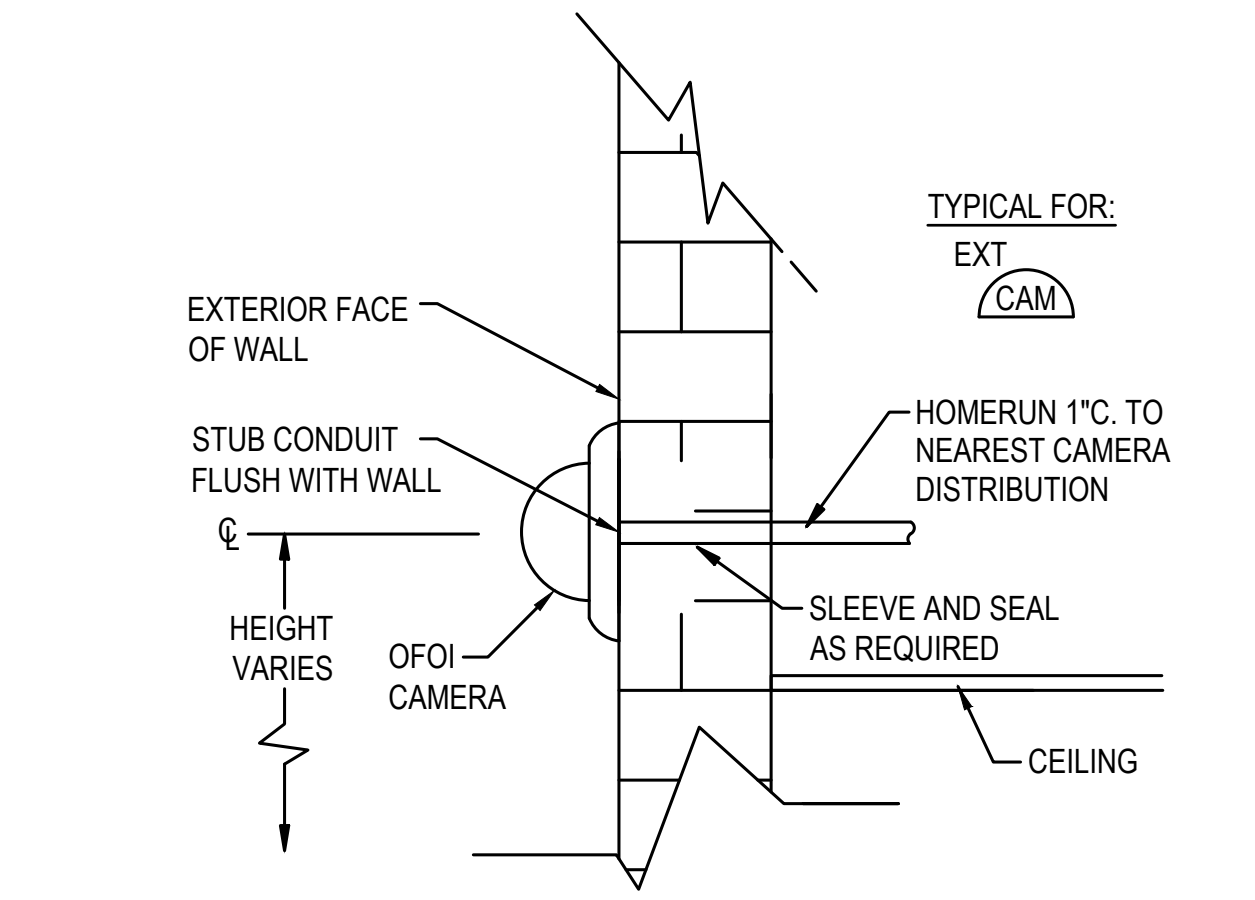
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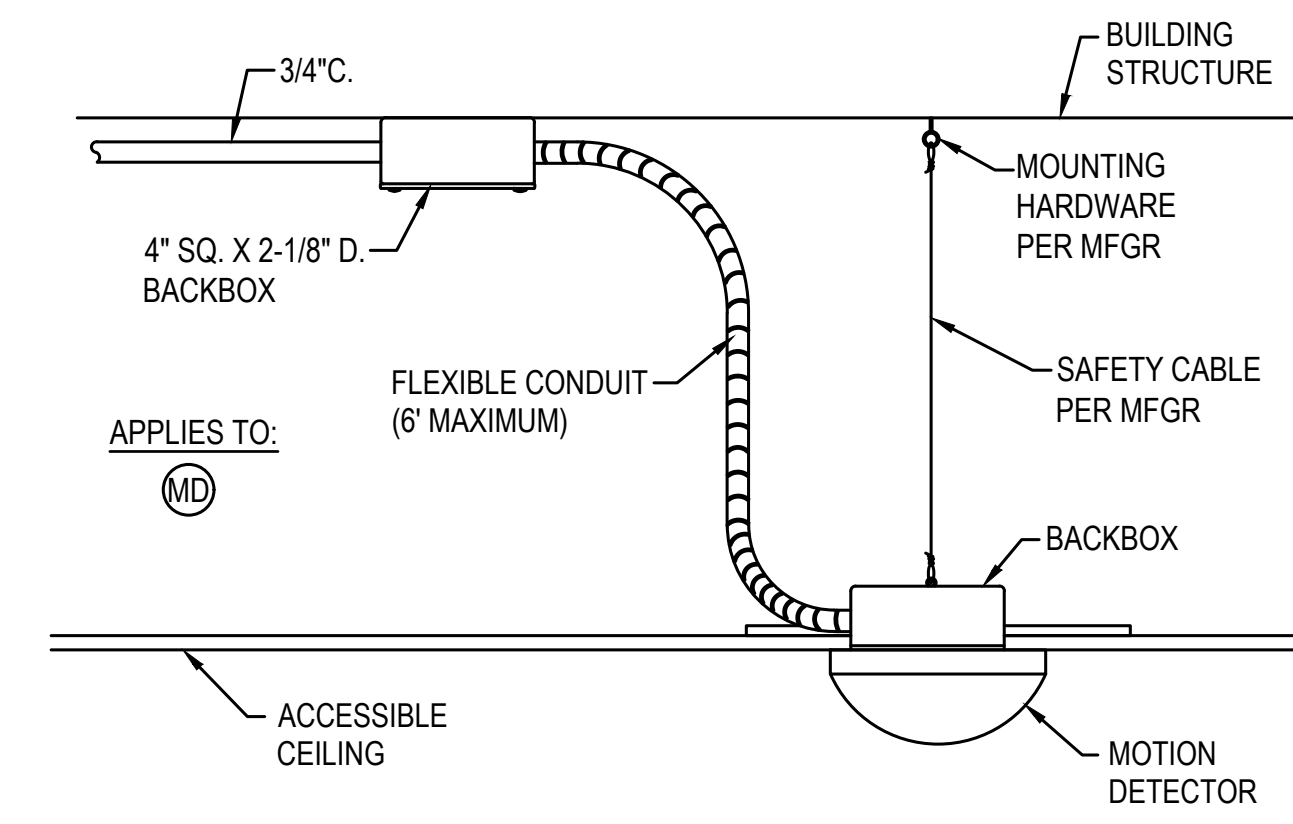
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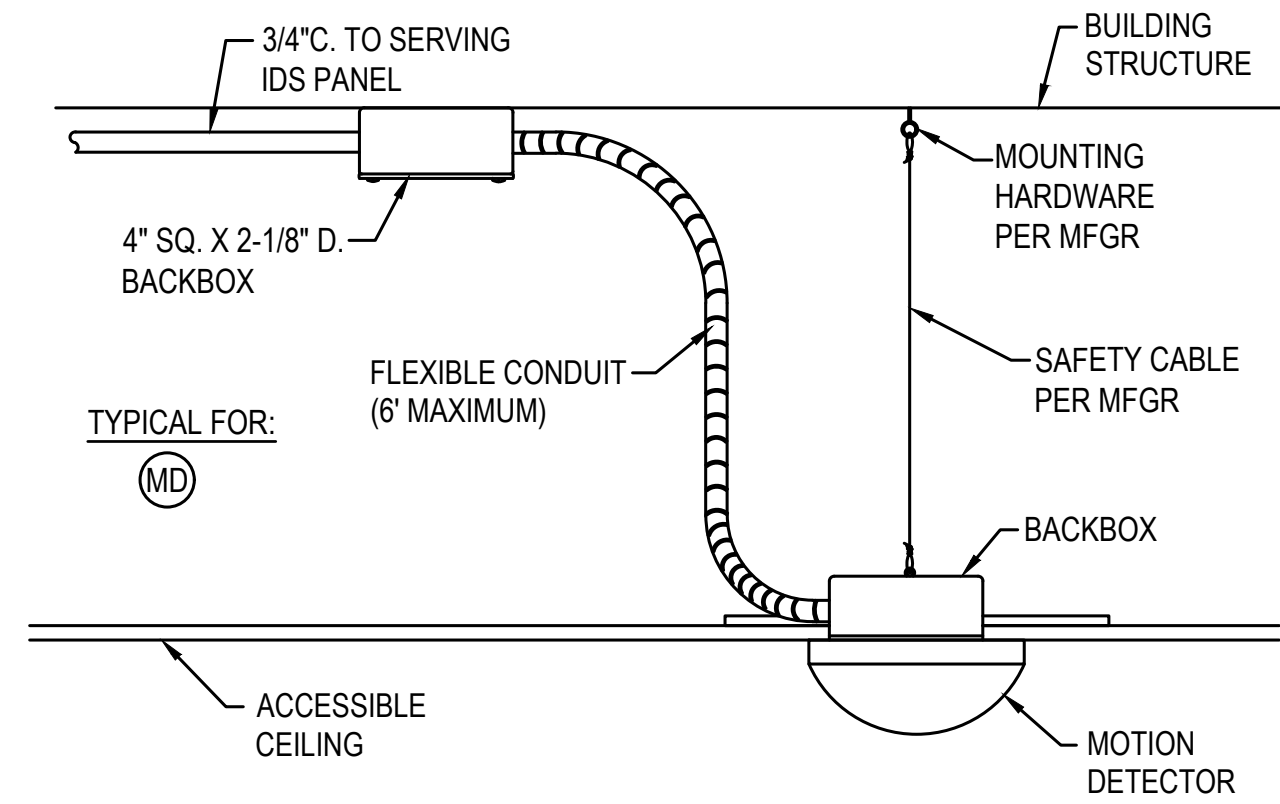
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NOT TO SCALE



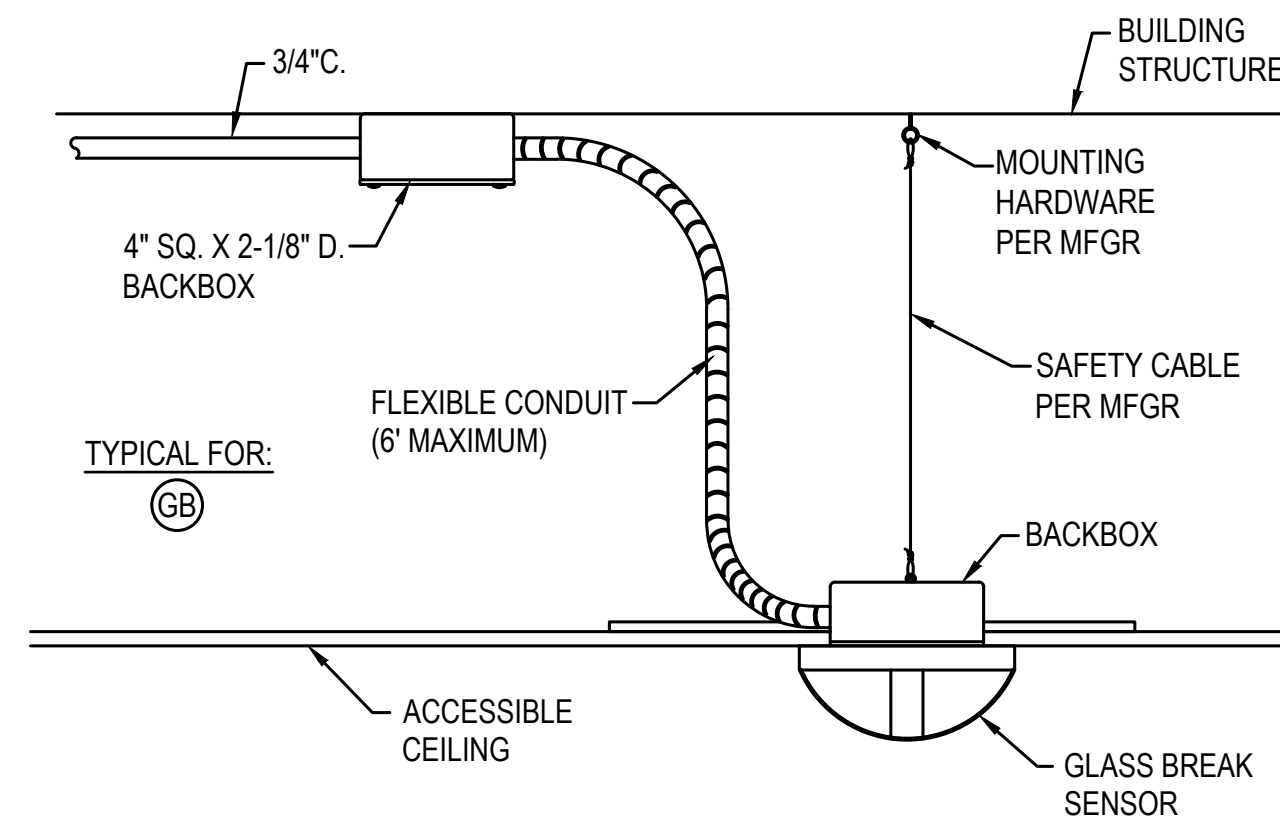
2 EXTERIOR CAMERA MOUNTING DETAIL - WALL MOUNT
NOT TO SCALE



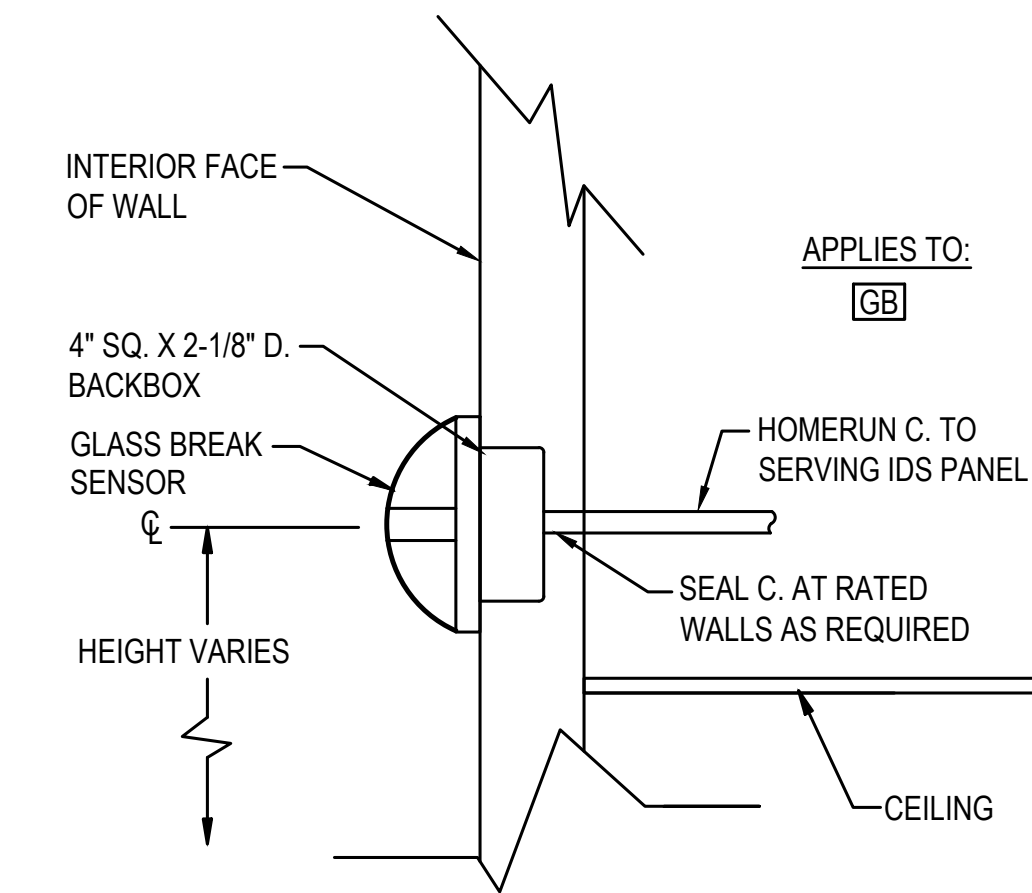
3 MOTION DETECTOR CEILING MOUNT DETAIL
NOT TO SCALE



4 MOTION DETECTOR MOUNTING DETAIL - CEILING MOUNT
NOT TO SCALE



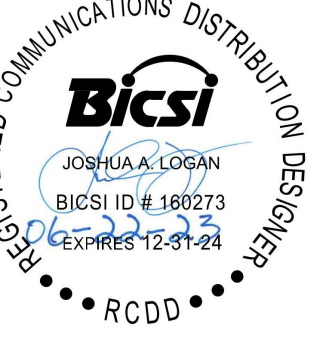
5 GLASS BREAK SENSOR MOUNTING DETAIL - CEILING MOUNT
NOT TO SCALE



6 GLASS BREAK SENSOR WALL MOUNT DETAIL
NOT TO SCALE



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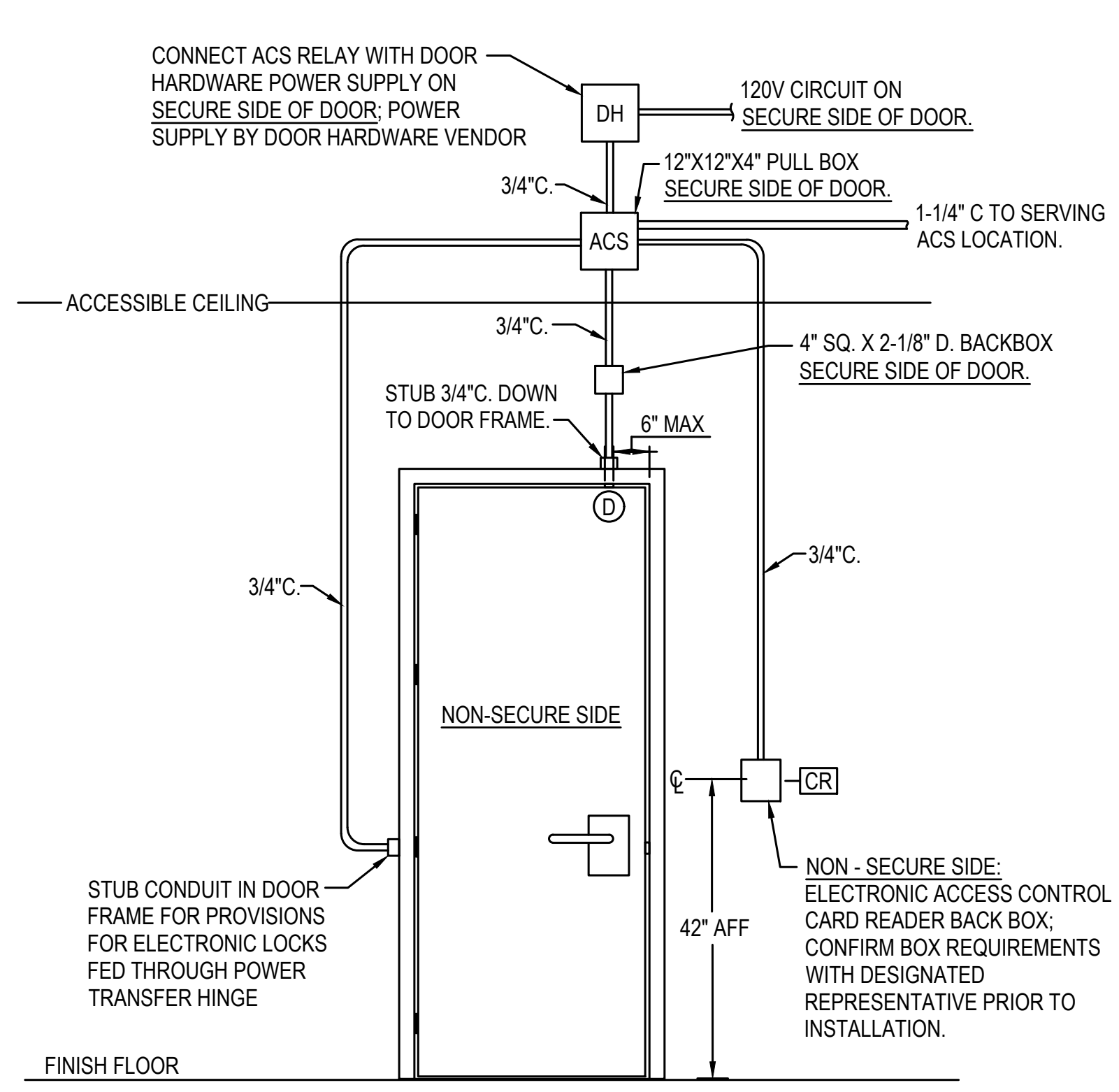
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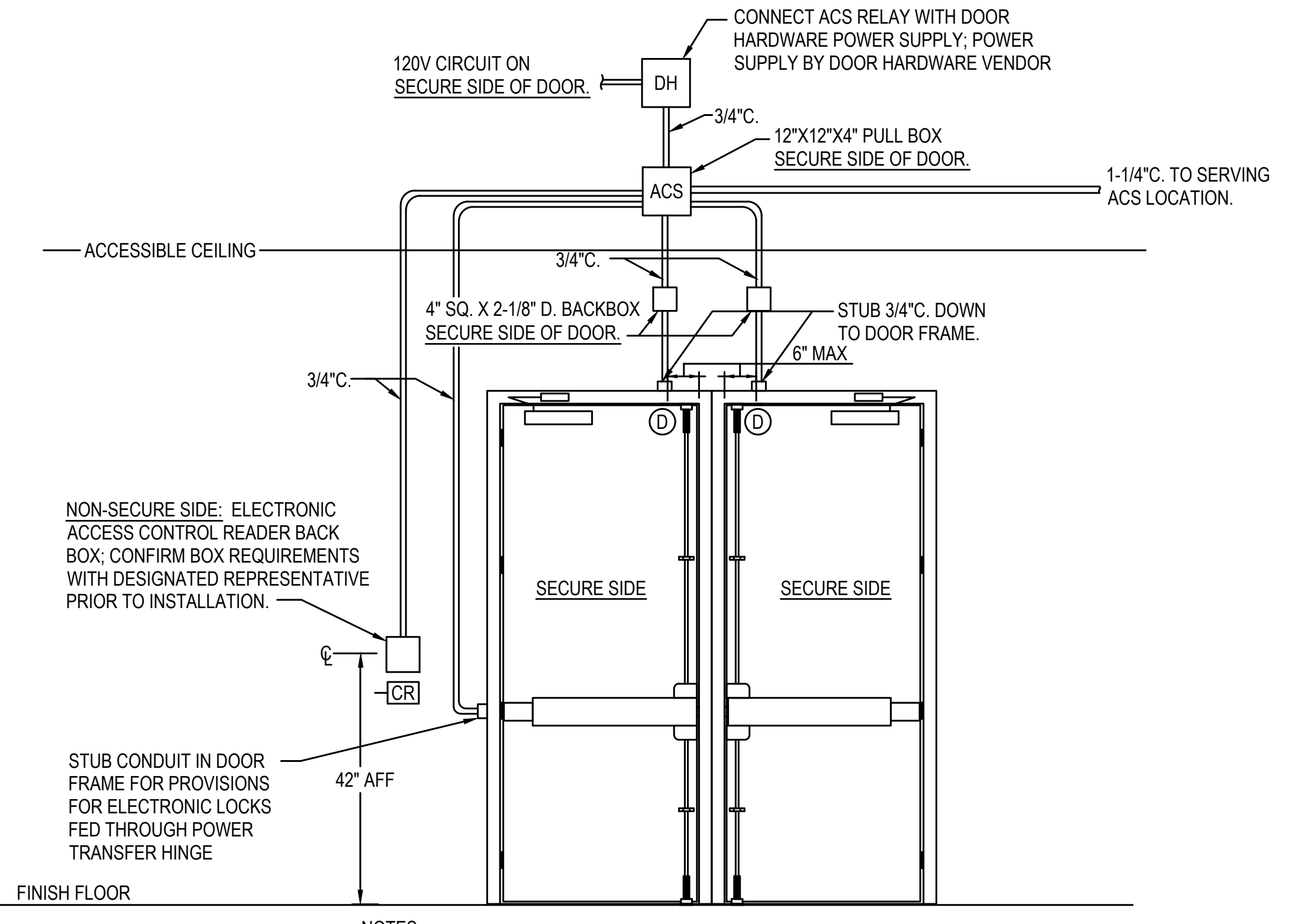
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- NOTES:**
1. ALL NOTED CONDUIT IS CONCEALED.
 2. AS A MINIMUM, PROVIDE PULLBOX EVERY 100' OF INTERIOR CONDUIT RUNS.

1 SECURITY DOOR ROUGH-IN DETAIL
SINGLE DOOR - "CR", "D"

NOT TO SCALE



- NOTES:**
1. ALL NOTED CONDUIT IS CONCEALED.
 2. ALL NOTED ACCESSIBLE PULL BOXES AND BACK BOXES ARE LOCATED ON SECURE SIDE OF DOOR, UNO.
 3. AS A MINIMUM, PROVIDE PULLBOX EVERY 100' OF INTERIOR CONDUIT RUNS.

2 SECURITY ROUGH-IN DETAIL
DOUBLE DOOR - "CR", "D"

NOT TO SCALE



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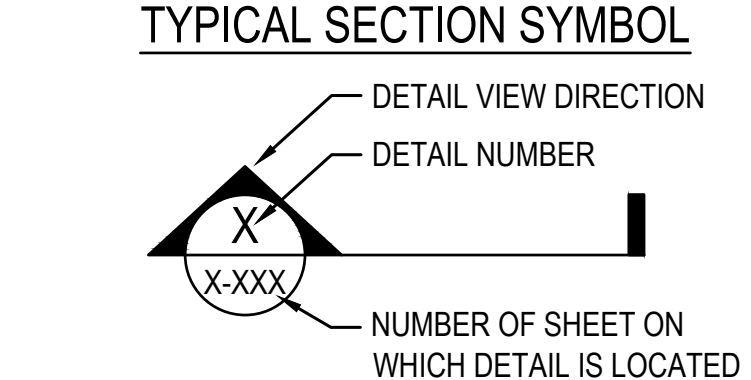
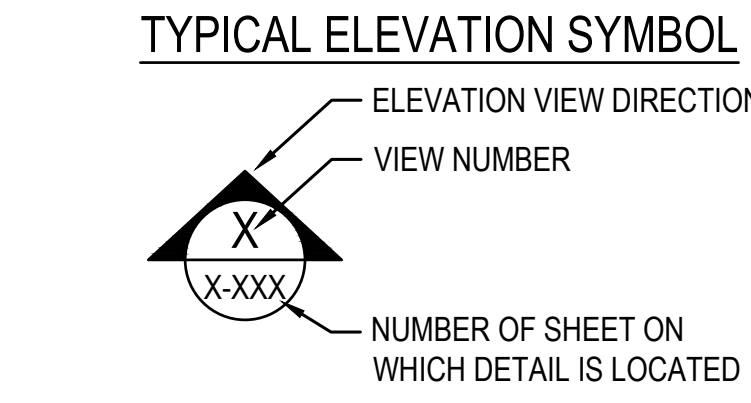
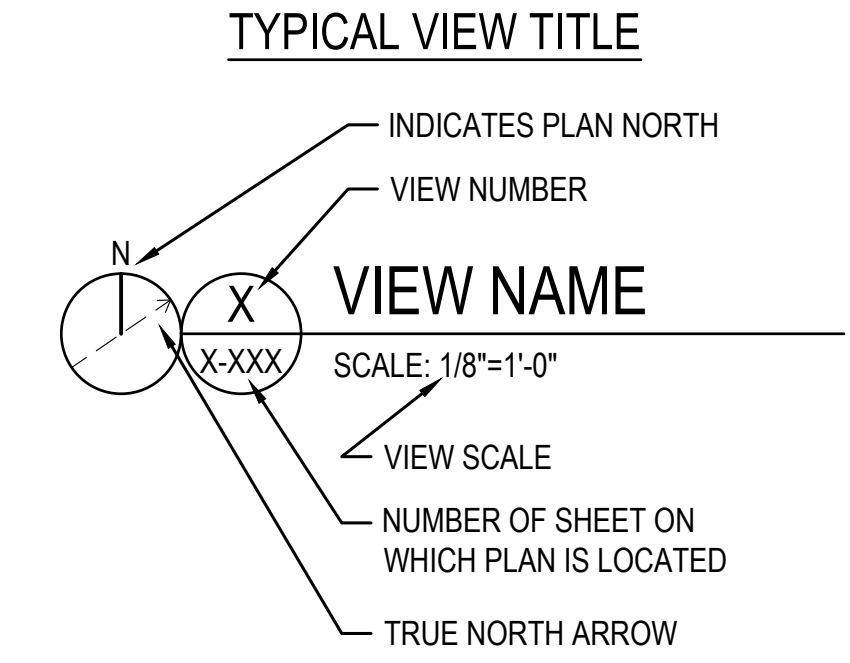
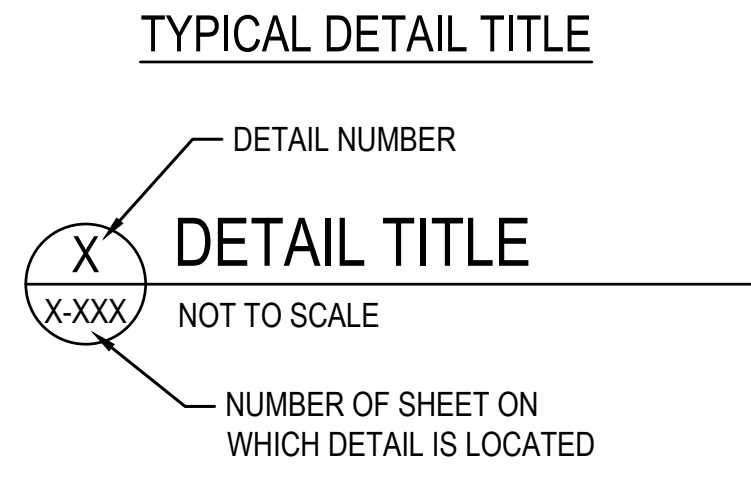
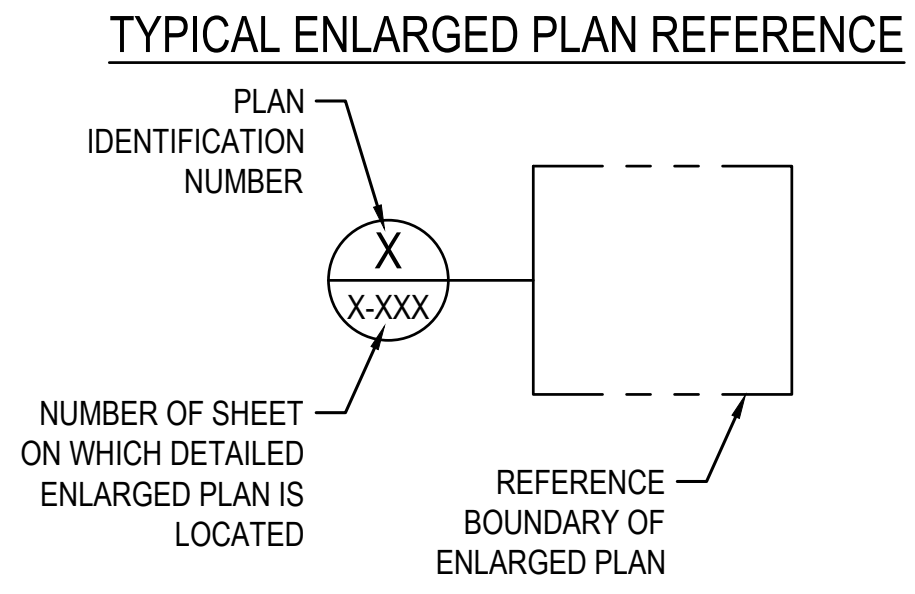
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AUDIO VISUAL (AV) SYSTEMS LEGEND	
DEVICE SYMBOL	DESCRIPTION
	AV DISPLAYS
	FLAT PANEL LED/LCD DISPLAY - WALL MOUNTED
	AV PROJECTORS
	AV PROJECTOR - CEILING MOUNTED
	AV CAMERAS
	AV VTC CAMERA - WALL MOUNTED
	AV SPEAKERS
	AV SPEAKER - CEILING MOUNTED
	AV SPEAKER - WALL MOUNTED
	AUDIO VISUAL (AV) DEVICES
	AV SYSTEM DESKTOP CONTROL
	POWER/COMM/AV FLOOR BOX - SHOWN FOR REFERENCE ONLY, REFER TO TELECOM FOR BOX DETAILS. COORDINATE WITH ELEC & COMM CONTRACTORS AND PROVIDE ALL NECESSARY PLATES, INSERTS AND JACKS.

SYSTEMS ANNOTATION LEGEND

- SHEET NOTE
- LEADER
- DIAGRAM NOTE
- DIAGRAM LEADER
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- CONDUIT STUB



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AV LEGEND & NOTES

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AUDIO-VISUAL GENERAL NOTES:

THE AUDIO-VISUAL (AV) DRAWINGS PROVIDED ARE DIAGRAMMATIC AND SHALL NOT BE CONSTRUED AS BEING COMPLETE; ADDITIONAL EQUIPMENT AND/OR CABLING MAY BE REQUIRED FOR THE AUDIO-VISUAL SYSTEMS TO PERFORM AS SPECIFIED, INTENDED, AND REQUIRED. THE CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO ENSURE A FULLY FUNCTIONAL SYSTEM.

AUDIO-VISUAL CONTRACTOR'S SCOPE OF WORK: AUDIO-VISUAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE AUDIO-VISUAL SYSTEM DEFINED IN THIS SCOPE OF WORK. THIS INCLUDES A COMPLETE INSTALLATION OF ALL DISPLAYS, PROJECTION SYSTEMS, PROJECTION BOARDS, SCREENS, GRAPHICS PROCESSORS, DIGITAL SIGNAGE SYSTEMS, AUDIO-VISUAL INTERFACES, AUDIO ENHANCEMENT, SERVERS, CABLING/INTERFACES, MATRIX SWITCHERS, AUDIO MIXERS AND SIGNAL PROCESSORS, TOUCHSCREEN CONTROLLERS, AMPLIFIERS, SOFTWARE, JACKS, CABLING, CABINETS, BONDING, TERMINATIONS, TESTING, LABELING, WARRANTIES, AND ALL REQUIRED CLOSE-OUT DOCUMENTS.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL AV PATHWAYS, ASSOCIATED SUPPORTING ELEMENTS, AND REQUIRED POWER.

ANY ROUGH-IN, PATHWAYS, ASSOCIATED DETAILS, ARE SHOWN FOR REFERENCE AND COORDINATION PURPOSES ONLY.

AV CONTRACTOR IS RESPONSIBLE FOR ALL AV DEVICES AND CABLING INFRASTRUCTURE SPECIFIC TO THE TELECOM SYSTEM ONLY. ALL AUDIO-VISUAL INFRASTRUCTURE REQUIREMENTS SHALL BE PROVIDED UNDER THE AV SCOP.

COORDINATION WITH OTHER TRADES:
EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING OUTLETS, RACEWAYS, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND SIZE OF OPENINGS/PENETRATIONS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES, INSTALLING WORK IN CHASES, SHAFTS, CEILING INTERSTITIAL SPACES, AND EQUIPMENT SPACES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES.

THE NOTES INDICATED BELOW ARE IN ACCORDANCE WITH ANSITIA, AND APPLICABLE CODES. THOUGH GENERIC IN NATURE, AND NOT ALL INCLUSIVE, THEY ARE PROVIDED TO ENSURE SPECIFIC BASIC REQUIREMENTS ARE COMPLETED IN ADDITION TO ANY BASE LEVEL STANDARDS AND/OR SCOPE SPECIFIED REQUIREMENTS (UNO).

CABLING & DEVICES:
ALL AUDIO/VIDEO MULTIPAIR COPPER CABLING MUST BE SHIELDED TWISTED PAIR (STP). THIS IS TO INCLUDE ALL CATEGORY 6 CABLING ROUTED BETWEEN SWITCHING, AND TRANSCEIVING COMPONENTS.

ALL CABLING ROUTED IN SLAB OR BELOW GRADE SHALL BE U.L. LISTED FOR WET LOCATIONS PER NFPA 70. DO NOT USE PLENUM OR RISER RATED CABLE, GEL-FILLED OSP, AND UNLISTED CABLES IN SUCH AN ENVIRONMENT.

LABEL ALL AV CABLES WITHIN 4 INCHES OF EACH TERMINATION INDICATED SOURCE/DESTINATION HARDWARE.

PROVIDE ALL ADDITIONAL RACEWAYS, GROMMETS, FACEPLATES, ETC. AS REQUIRED TO PROVIDE COMPLETE AV SYSTEMS RACEWAYS.

INSTALL VELCRO CABLE TIES TO ALL CABLE BUNDLES IN RACK WIRE MANAGEMENT, AND OTHER SUPPORT MEANS.

CONTROL SYSTEMS:
EFFORT HAS BEEN MADE TO SHOW THE BASIC REQUIRED COMPONENTS OF THE CONTROL SYSTEM. IN THE EVENT THAT ADDITIONAL CONTROLLERS OR CONTROL MODULES ARE REQUIRED TO SATISFY THE CONTROL REQUIREMENTS OF THE SPECIFICATIONS, PROVIDE AND INSTALL AT NO ADDITIONAL EXPENSE TO THE OWNER IN ORDER TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. POWER SUPPLIES ARE NOT SHOWN, BUT SHALL BE PROVIDED TO PROVIDE A FULLY FUNCTIONAL SYSTEM.

HARDWARE SUPPORTS & MOUNTING:
PROVIDE ALL HARDWARE AS REQUIRED TO SECURE AV EQUIPMENT IN APPROXIMATE LOCATIONS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR TO CORRECTLY LOCATE PROJECTION EQUIPMENT IN REGARDS TO HVAC DUCTWORK, LIGHT FIXTURES, PROJECTIONS SCREEN, AND THE LIKE.

PROVIDE ALL EQUIPMENT CUTOUT TEMPLATES TO FURNITURE MANUFACTURER PRIOR TO FURNITURE INSTALLATION. COORDINATE WITH CID FURNITURE PACKAGE TO BE INSTALLED AND COTR.

COORDINATE WITH OWNER'S COTR FOR ALL REQUIRED GFGI EQUIPMENT, QUANTITIES, LOCATIONS, ETC.

REFER TO SPECIFICATION 27 40 00 FOR ADDITIONAL AV REQUIREMENTS.

ELECTRICAL GENERAL NOTES:

THE AUDIO-VISUAL DRAWINGS PROVIDED ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION OF ALL REQUIRED OF EQUIPMENT AND DEVICES. THEY DO NOT SHOW ALL NECESSARY OFFSETS, JUNCTION BOXES, CABLE/LADDER TRAY TRANSITIONS, CONDUIT SLEEVES/PENETRATIONS, AND ADJUSTMENTS NECESSARY BY COORDINATION WITH OTHER TRADES. THE CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO ENSURE A FULLY FUNCTIONAL SYSTEM.

ELECTRICAL CONTRACTOR'S SCOPE OF WORK: ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INTERIOR ROUGH-IN AND SUPPORT SYSTEM NECESSARY FOR THE COMPLETE AUDIO-VISUAL SYSTEM DEFINED IN THIS SCOPE OF WORK. THIS INCLUDES A COMPLETE INSTALLATION OF ALL REQUIRED PATHWAYS INCLUDING: CONDUIT, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, BLOCKING, UNISTRUT, GROUNDING CONDUCTORS AND BUSBARS, FIRESTOPPING, POWER, AND ANY OTHER NECESSARY APPURTENANCES.

COORDINATION WITH OTHER TRADES:
EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING OUTLETS, RACEWAYS, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND SIZE OF OPENINGS / PENETRATIONS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES, INSTALLING WORK IN CHASES, SHAFTS, CEILING INTERSTITIAL SPACES, AND EQUIPMENT SPACES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES.

THE NOTES INDICATED BELOW ARE IN ACCORDANCE WITH ANSITIA, AND APPLICABLE CODES. THOUGH GENERIC IN NATURE, AND NOT ALL INCLUSIVE, THEY ARE PROVIDED TO ENSURE SPECIFIC BASIC REQUIREMENTS ARE COMPLETED IN ADDITION TO ANY BASE LEVEL STANDARDS AND/OR SCOPE SPECIFIED REQUIREMENTS (UNO).

CONDUIT:
INSTALL ELECTRICAL METALLIC TUBING (EMT) CONDUIT FOR ALL OVERHEAD AV DEVICES.

PROVIDE A MINIMUM OF 1 INCH EMT CONDUIT FOR EACH AV DEVICE (UNO).

METALLIC PATHWAYS 3 FT OR GREATER IN LENGTH SHALL COMPLY WITH THE BONDING REQUIREMENTS OF ANSITIA-607.

FOR CONDUITS WITH AN INTERNAL DIAMETER OF 2 INCHES OR LESS, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. FOR CONDUITS WITH AN INTERNAL DIAMETER OF MORE THAN 2 INCHES, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS.

CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING.

ALL PENETRATIONS SHALL BE SEALED WITH AN APPROVED SEALANT OR UL LISTED PENETRATION DEVICE THAT WILL MAINTAIN THE FIRE, SMOKE AND WATERPROOF OR OTHER APPLICABLE RATINGS OF THE TYPE OF CONSTRUCTION BEING PENETRATED. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION REQUIREMENTS.

UNLESS NOTED OTHERWISE, ALL CONDUITS SHALL BE INSTALLED CONCEALED UNDER FLOOR SLABS, ABOVE THE CEILING AND WITHIN THE FINISHED WALLS. ALL OUTLET BOXES SHALL BE INSTALLED FLUSH MOUNTED WITHIN FINISHED WALLS, CEILINGS OR FLOORS. SURFACE MOUNTED RACEWAY AND OUTLET BOXES SHALL NOT BE PERMITTED ON FINISHED WALLS, CEILINGS OR FLOORS EXCEPT AS INDICATED ON THE DRAWINGS.

PROVIDE METALLIC CONDUITS WITH INSULATED BUSHINGS AT TERMINATIONS.

CONDUITS HAVE BEEN SIZED BASED ON THE NFPA, AS WELL AS ANSITIA 569. WHERE INSTALLATIONS VARY, INCREASE CONDUITS SIZES ACCORDING TO MAXIMUM NUMBER OF CABLES BASED ON ALLOWABLE FILL RATIO OF 40%.

PULL ROPE SHALL BE INSTALLED IN ALL CONDUITS. PULL ROPE SHALL HAVE A MINIMUM 200LB TENSILE STRENGTH FOR ALL AUDIO-VISUAL CONDUITS.

BLOCKING AND SUPPORT HARDWARE:
INSTALL ALL MOUNTS AND SUPPORT HARDWARE FOR AUDIO-VISUAL SYSTEMS; INCLUDING, UNISTRUT, ALL-THREAD OR THREADED RODS, BLOCKING, SUPPORT CABLES, ETC.

PULL BOXES: PULL BOXES SHALL BE READILY ACCESSIBLE. PULL BOXES SHALL NOT BE PLACED IN A FIXED FALSE CEILING SPACE UNLESS IMMEDIATELY ABOVE A SUITABLY MARKED ACCESS PANEL.

A PULL BOX SHALL BE PLACED IN A CONDUIT RUN WHERE:
• THE LENGTH IS OVER 100 FT;
• THERE ARE MORE THAN TWO 90° BENDS, OR EQUIVALENT; OR
• THERE IS A REVERSE (U-SHAPED) BEND IN THE RUN.

PULL BOXES SHALL BE PLACED IN A STRAIGHT SECTION OF CONDUIT. THEY SHALL NOT BE USED IN LIEU OF A BEND. THE CORRESPONDING CONDUIT ENDS SHALL BE ALIGNED WITH EACH OTHER.

WHERE A PULL BOX IS REQUIRED WITH CONDUITS SMALLER THAN 1-1/4", AN OUTLET BOX MAY BE USED AS A PULL BOX.

IF THE PULL BOX IS COMPRISED OF METALLIC COMPONENTS, IT SHALL BE BONDED TO GROUND.

AUDIO-VISUAL ABBREVIATIONS:

AV	AUDIO-VISUAL OR AUDIOVISUAL
AFF	ABOVE FINISH FLOOR
ACS	ACCESS CONTROL SYSTEM
ADA	AMERICANS WITH DISABILITIES ACT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
ARCH	ARCHITECTURAL
AHJ	AUTHORITY HAVING JURISDICTION
BMS	BALANCED MAGNETIC SWITCH
BBC	BONDING BACKBONE CONDUCTOR
BAS	BUILDING AUTOMATION SYSTEM
CT	CABLE TRAY
CR	CARD READER
CAT 3	CATEGORY 3
CAT 5E	CATEGORY 5 ENHANCED
CAT 6	CATEGORY 6
CAT 6A	CATEGORY 6 AUGMENTED
CO	COMMUNICATIONS OUTLET
CATV	COMMUNITY ANTENNA TELEVISION
C	CONDUIT
CID	COMPREHENSIVE INTERIOR DESIGN
CP	CONSOLIDATION POINT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
OTR	OWNER'S TECHNICAL REPRESENTATIVE
DEMARC	DEMARICATION
ELEC	ELECTRICAL
ESS	ELECTRONIC SECURITY SYSTEM
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
FCC	FEDERAL COMMUNICATIONS COMMISSION
FO	FIBER OPTIC
HT	HEIGHT
IDS	INTRUSION DETECTION SYSTEM
KP	KEY PAD
LAN	LOCAL AREA NETWORK
MTR	MAIN TELECOMMUNICATIONS ROOM
MTG	MOUNTING
MAX	MAXIMUM
um	MICRON / MICROMETER
MIN	MINIMUM
MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
MM	MULTIMODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEC	NATIONAL ELECTRICAL CODE
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSP	OUTSIDE PLANT
PR	PAIR
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE
PB	PULL BOX
PBB	PRIMARY BONDING BUSBAR
PBX	PRIVATE BRANCH EXCHANGE
PDS	PROTECTED DISTRIBUTION SYSTEM
RMU	RACK MOUNTED UNIT
RX	REQUEST TO EXIT
RH	RELATIVE HUMIDITY
RM	ROOM
R/I	ROUGH-IN
RW	RACEWAY
S _c TP	SCREENED TWISTED-PAIR
SBB	SECONDARY BONDING BUSBAR
SVTC	SECURED VIDEO TELECONFERENCE
STP	SHIELDED TWISTED-PAIR
SM	SINGLEMODE
SMT	SURFACE MOUNT
STR	STRANDS
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TER	TELECOMMUNICATIONS EQUIPMENT ROOM
TR	TELECOMMUNICATIONS ROOM
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UL	UNDERWRITERS LABORATORIES INC
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED-PAIR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTC	VIDEO TELECONFERENCE
VoIP	VOICE OVER INTERNET PROTOCOL



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New Headquarters Building

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No.	Description	Date

AV GENERAL NOTES

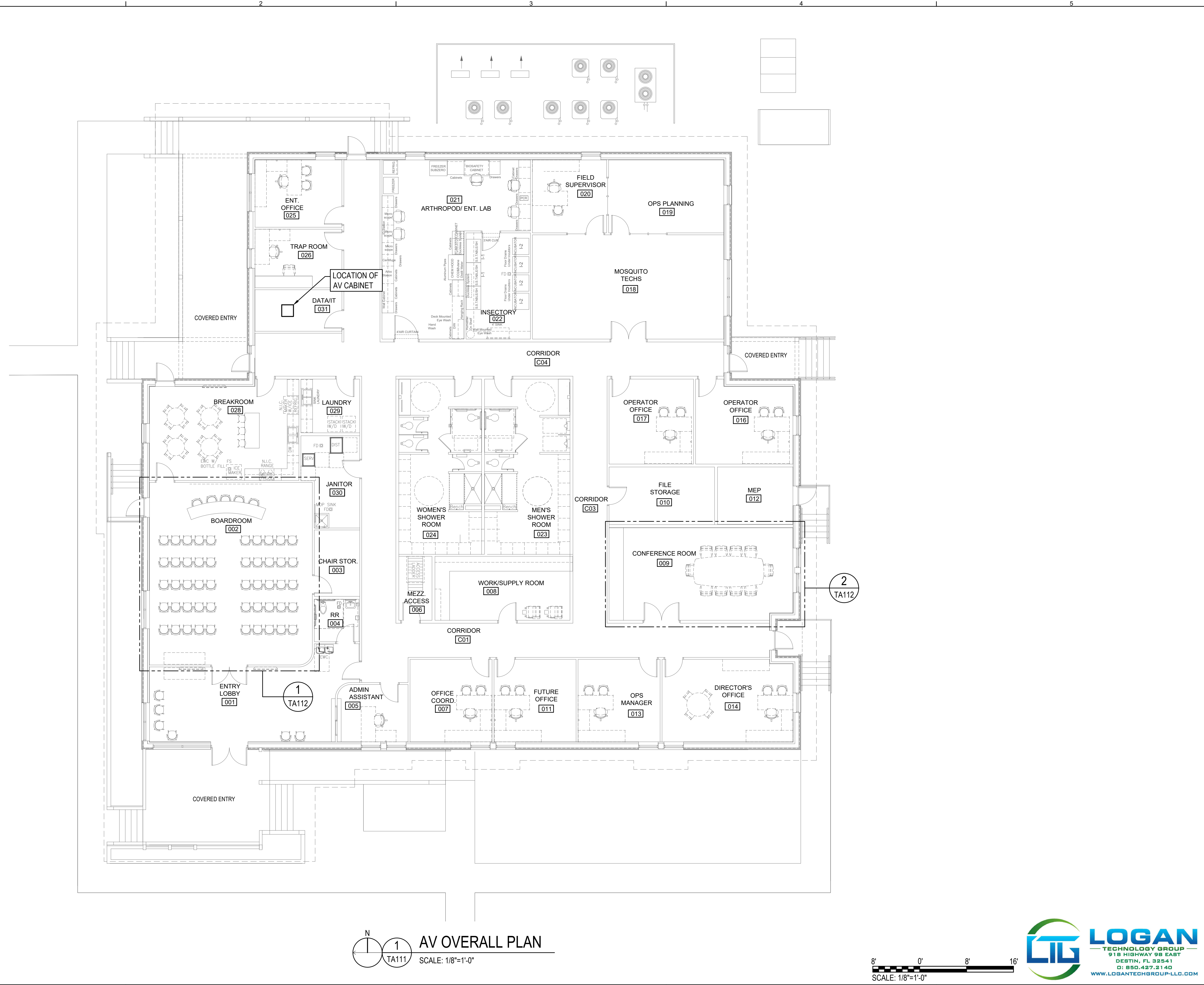
Project number:	18106
Date:	06-20-2023
PIC:	CL
PM:	JL



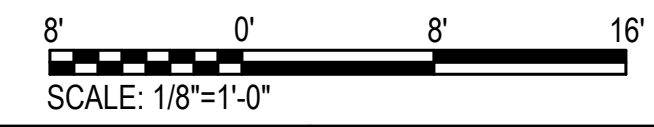
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1 AV OVERALL PLAN
SCALE: 1/8"=1'-0"



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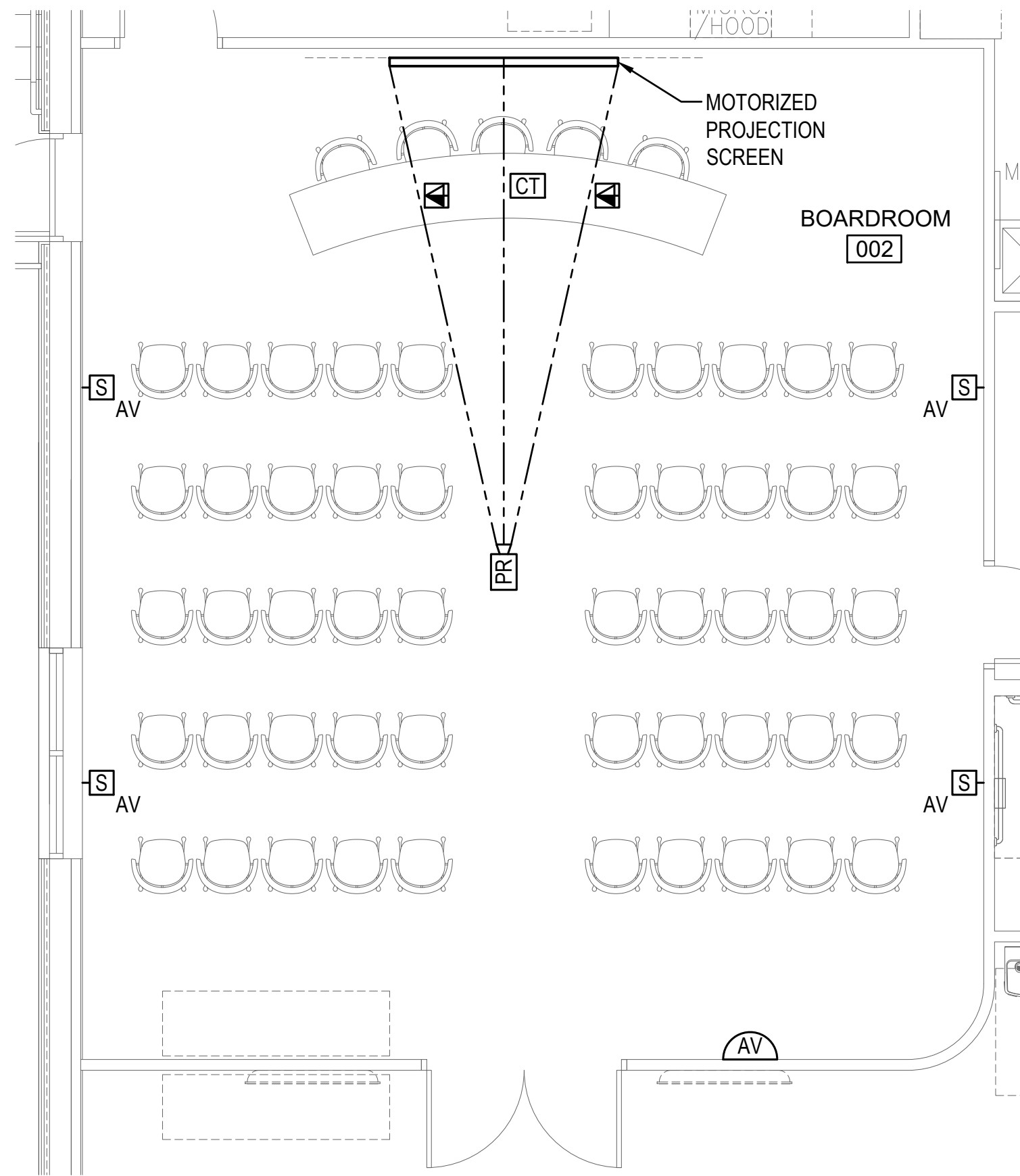
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AV OVERALL FLOOR PLAN

Project number: 18106
Date: 06-20-2023
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PM: JL

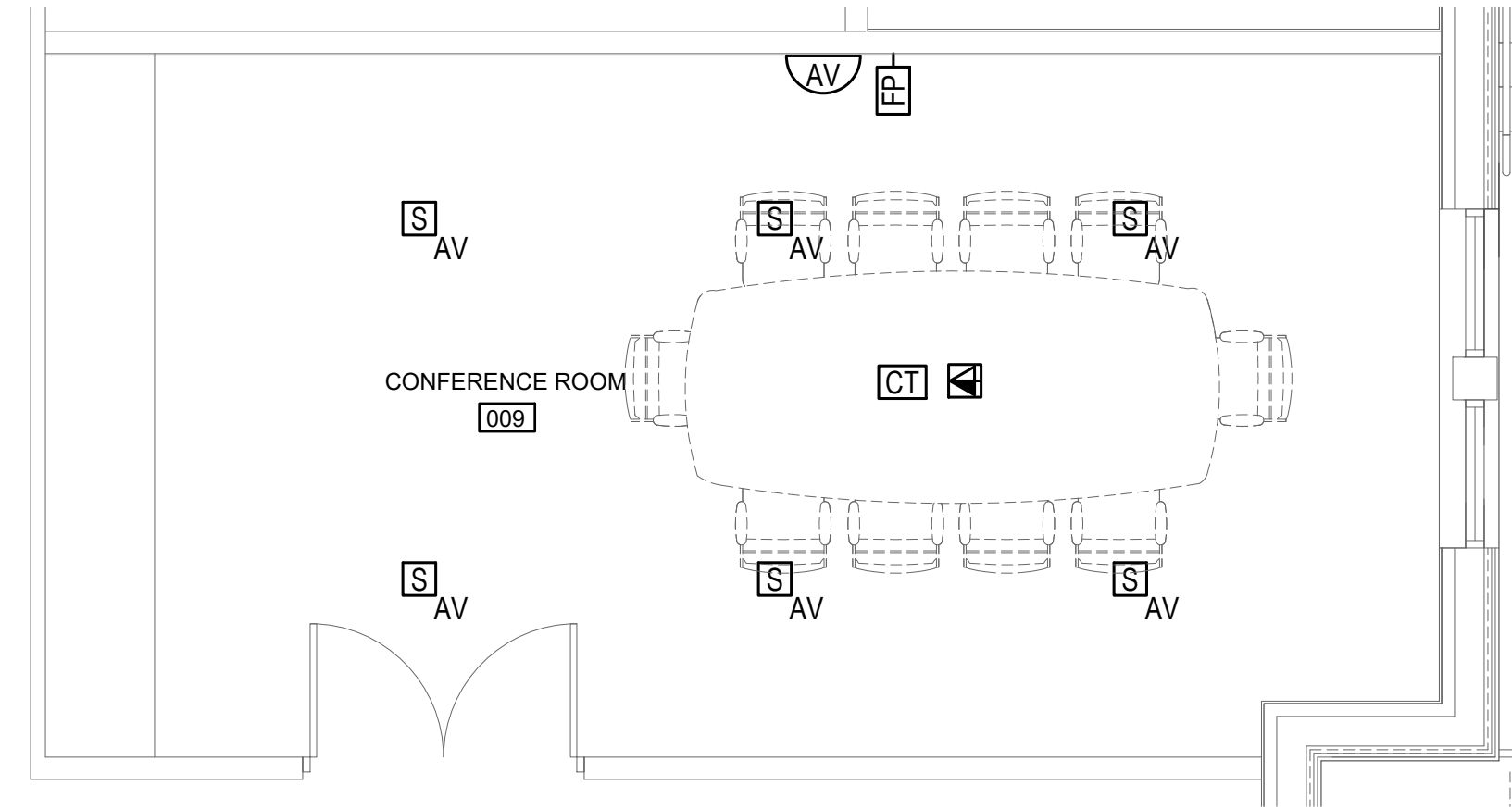
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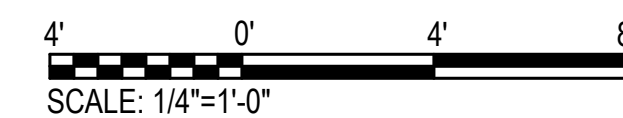
AV ENLARGED PLAN - BOARDROOM 002

SCALE: 1/4"=1'-0"



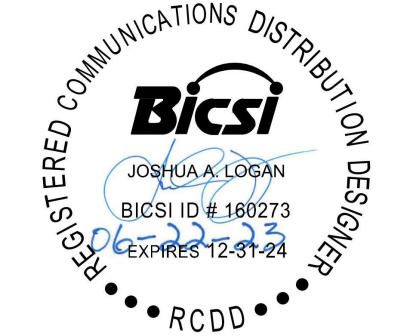
AV ENLARGED PLAN - CONFERENCE ROOM 009

SCALE: 1/4"=1'-0"



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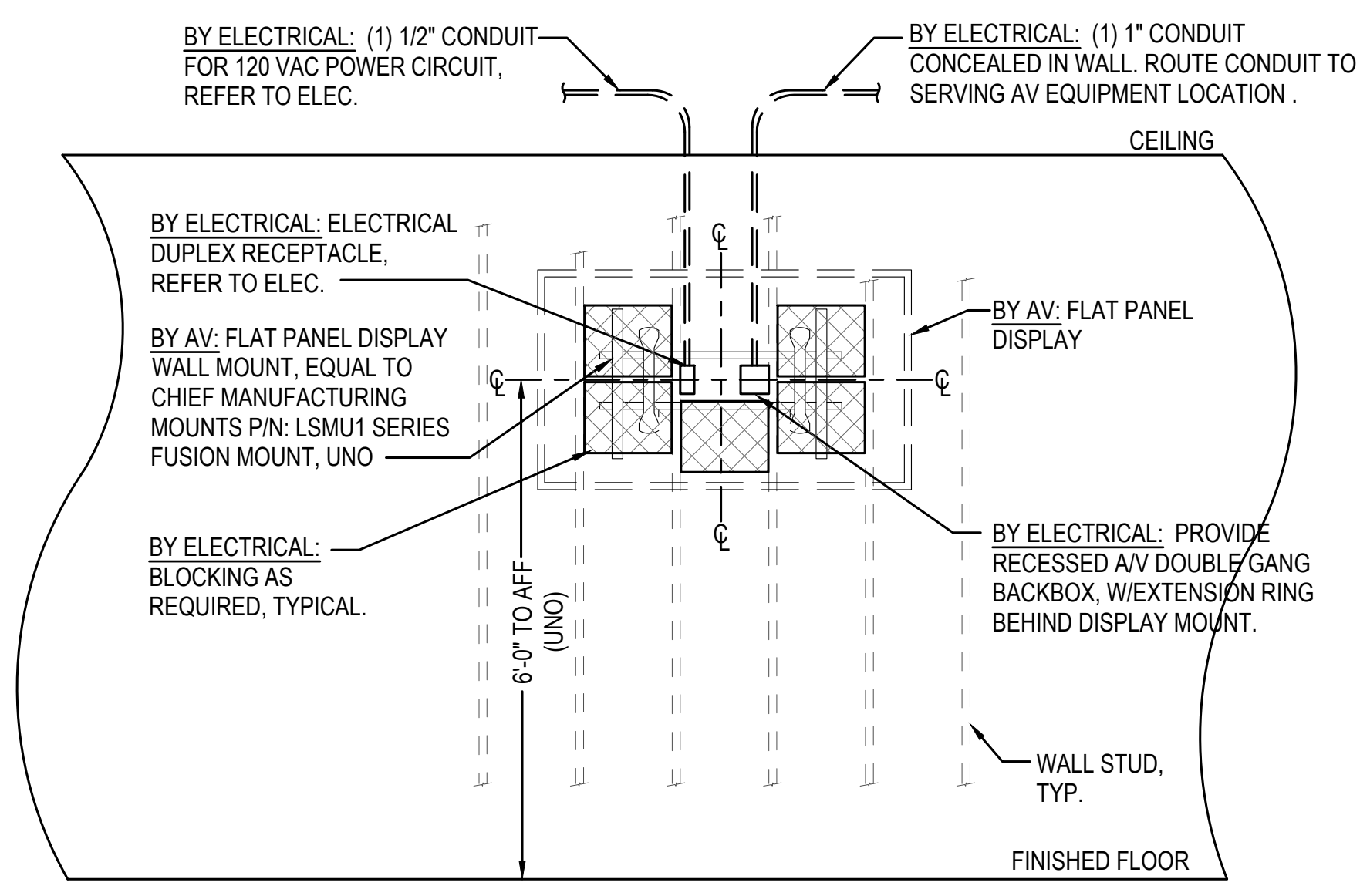
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AV ENLARGED PLANS

Project number: 18106
Date: 06-20-2023
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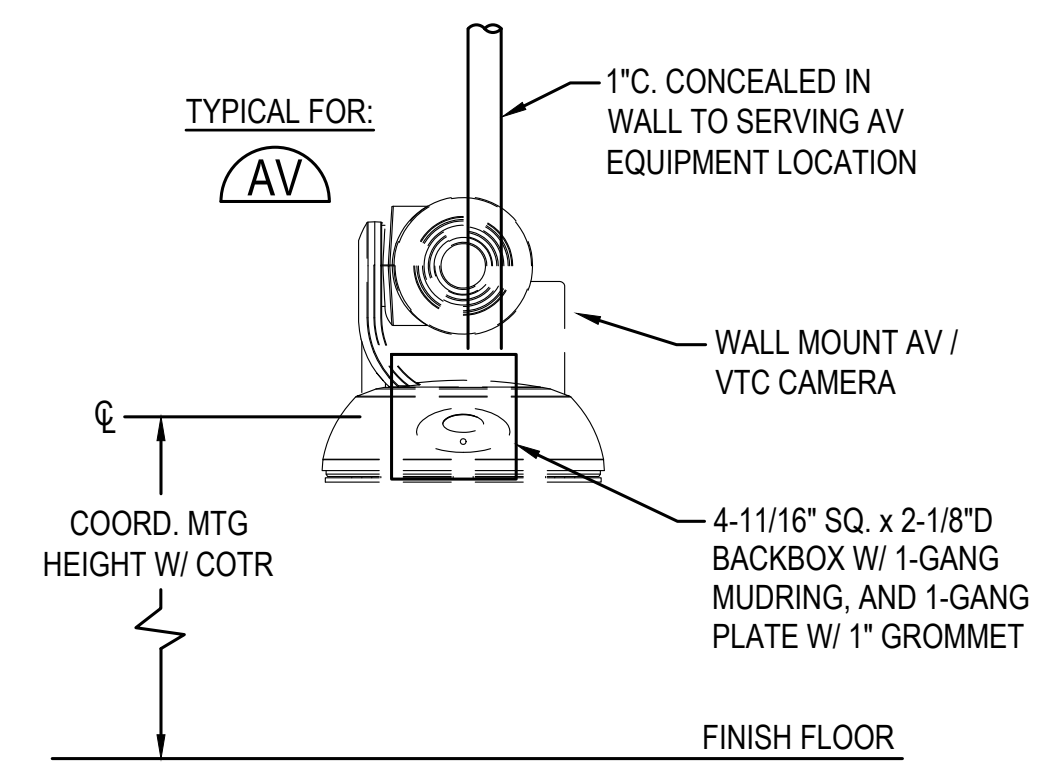
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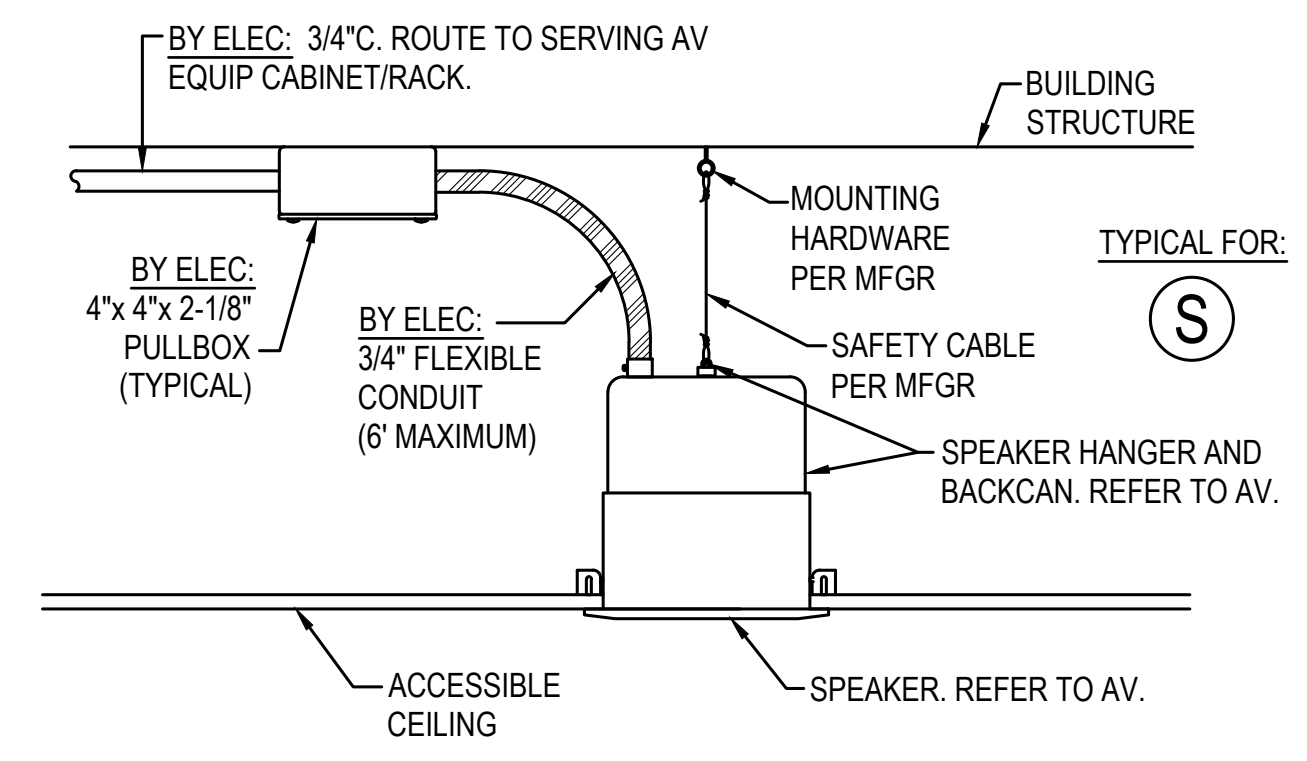
NOTES:
1. MAXIMUM COMBINED WEIGHT OF WALL MOUNT DISPLAY AND DISPLAY MOUNT SHALL NOT EXCEED 250 LBS.

1 FLAT PANEL DISPLAY ROUGH-IN DETAIL - WALL MOUNT
NOT TO SCALE

TYPICAL FOR: FP



2 AV CAMERA ROUGH-IN DETAIL - WALL MOUNT
NOT TO SCALE



3 AV SPEAKER ROUGH-IN DETAIL - CEILING MOUNT
NOT TO SCALE



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No.	Description	Date

AV DETAILS



Project number: 18106
Date: 06-20-2023
PIC: CL
PM: JL

TA201