

GENERAL NOTES

- THESE TELECOMMUNICATIONS DRAWINGS ARE PREPARED AND COORDINATED WITH THE SCOPE OF WORK DOCUMENT AND THE SPECIFICATIONS. TOGETHER THESE DOCUMENTS FORM THE CONTRACT DOCUMENTS.
- THE TELECOMMUNICATIONS SYSTEMS ARE DESIGNED IN ACCORDANCE WITH THE BICSI AND TIA/EIA STANDARDS.
- ALL CABLE PATHWAYS ARE DESIGNED WITH A MAXIMUM 40 PERCENT FILL RATIO UNLESS OTHERWISE NOTED. FILL REQUIREMENTS MAY ALTER FROM INITIAL DESIGN DUE TO CLIENT REQUIREMENTS DURING INSTALLATION.
- ALL CABLE PATHWAYS SHALL BE FREE FROM PROJECTIONS AND ROUGH OR SHARP EDGES THROUGHOUT THE ENTIRE PATH. ALL POINTS OR EDGES THAT CABLING MUST PASS, AND MAY BE SUBJECT TO INJURY OR WEAR, SHALL BE ROUNDED, PADDED, OR BUSHED.
- THE TELECOMMUNICATIONS DRAWINGS INDICATE THE GENERAL LOCATION OF EQUIPMENT, CABLE PATHWAYS, AND OUTLETS. ALTHOUGH THE DRAWINGS DO NOT NECESSARILY DICTATE THE ACTUAL ROUTES OF CABLE TRAYS AND CONDUITS, LOCATION OF EQUIPMENT AND OUTLETS, AND OTHER SUPPORTING ITEMS, THEY SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE TO THE DESIGN IN THIS DOCUMENT. IT SHALL BE THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF ALL TELECOMMUNICATION ITEMS WITH ALL OTHER CONTRACTORS.
- ALL BLOCKS, PANELS AND CABLE SHALL BE ASSIGNED, LABELED AND RECORDED BY THE INSTALLING CABLE CONTRACTOR, AND DELIVERED TO THE ENGINEER.
- SEE NOTES ON INDIVIDUAL DRAWINGS FOR CROSS REFERENCE TO PERTINENT DETAILS, SECTIONS, ETC. SHOWN ON OTHER DRAWINGS IN THIS DRAWING SET.
- SCALES NOTED ON THE TELECOMMUNICATIONS DRAWINGS ARE FOR GENERAL INFORMATION AND USED FOR REFERENCE ONLY.
- ALL MOUNTING HEIGHTS SHOWN ARE MEASURED FROM FINISHED FLOOR TO BOTTOM OF MOUNTED EQUIPMENT UNLESS OTHERWISE NOTED.
- FIRE STOP ALL STRUCTURE PENETRATIONS WITH FIRE STOPPING MATERIAL EQUAL TO OR GREATER THAN THAT OF PENETRATED STRUCTURE. INSTALL FIRE STOPPING MATERIAL AFTER COMPLETE INSTALLATION OF CABLING. USE ONLY LISTED FIRE STOPPING MATERIAL IN ACCORDANCE WITH UL, NFPA, AND OTHER AUTHORITIES HAVING JURISDICTION.
- TELECOMMUNICATIONS ROOMS SHALL NOT BE USED AS STORAGE SPACE BY ANY CONTRACTOR EXCLUDING THE INSTALLING CONTRACTOR FOR THE TELECOMMUNICATIONS SYSTEM. WHEN THE INSTALLATION OF A TELECOMMUNICATIONS SPACE IS COMPLETE, ALL ITEMS AND EQUIPMENT NOT SUPPORTING THE FUNCTIONS OF THAT SPACE SHALL BE REMOVED FROM THE SPACE.
- ALL TELECOMMUNICATIONS ROOMS WILL HAVE 3/4" x 4" x 8' FIRE RETARDANT PLYWOOD INSTALLED VERTICALLY, STARTING APPROXIMATELY 2' ABOVE THE FLOOR.
- THE TELECOMMUNICATIONS DRAWINGS INDICATE THE GENERAL LOCATION OF THE BACKBONE CONDUIT FOR THE TELECOM ROOMS. THE INSTALLER SHALL VERIFY THE EXACT LOCATION OF THE CONDUIT(S). CONDUITS SHALL BE POSITIONED SO THEY ENTER AND EXIT TELECOM ROOMS IN THE CORNERS AS SHOWN ON THE TELECOM ROOM DRAWINGS.
- NOT ALL HARDWARE FOR INSTALLATION IS IDENTIFIED/SHOWN. THE TELECOMMUNICATIONS CONTRACTOR IS RESPONSIBLE FOR ALL MOUNTING HARDWARE REQUIRED FOR A COMPLETE AND PROPERLY OPERATING INSTALLATION.
- NOT ALL ITEMS, COMPONENTS AND SYSTEMS SPECIFIED IN THIS DRAWING SET OR THE SPECIFICATIONS ARE DETAILED. CONTRACTOR TO PROVIDE MANUFACTURERS' SPECIFICATIONS AND DETAIL SHEETS IN THE PRECONSTRUCTION SUBMITTALS FOR SELECTION PER THE SPECIFICATIONS.
- THE TELECOMMUNICATIONS CONTRACTOR SHALL INSTALL COMPONENTS OR SYSTEMS PER THE MANUFACTURERS' INSTALLATION INSTRUCTIONS OR SPECIFICATIONS.
- ALL CABLE SHALL COMPLY WITH THE SPECIFICATIONS AND SHALL BE SUITABLE AND LISTED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.
- ALL CONDUIT RUNS SHALL FOLLOW BICSI STANDARDS FOR BENDS, FILL AND JUNCTION BOX PLACEMENT. NO CONDUIT RUNS SHALL HAVE GREATER THAN 180 DEGREES OF BEND WITHOUT A PROPERLY SIZED AND PLACED PULL BOX.
- ALL CONDUIT RUNS AND CABLE TRAY SHOWN ARE DIAGRAMMATIC. REPORT ANY MAJOR DEVIATION TO CONSTRUCTION MANAGER FOR APPROVAL.
- ALL CONDUITS FROM BELOW SHALL STUB UP 4" A.F.F.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL SYSTEMS, EQUIPMENT LAYOUT AND CONDUIT ROUTING AS SHOWN ON DRAWING WITH SITE CONDITIONS.
- CONTRACTOR SHALL ENSURE PROPER SEPARATION OF CLASS 1, CLASS 2, AND CLASS 3 CIRCUITS PER NEC 725-54.
- CONTRACTOR SHALL VERIFY THE SIZE OF ALL CONDUCTORS, CONDUIT, AND JUNCTION BOXES (40 % MAXIMUM FILL). INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL CODES HAVING JURISDICTION.
- LOW VOLTAGE VOICE AND DATA CABLING SHALL NOT BE INSTALLED IN THE SAME CONDUIT AS 120 VAC POWER CABLES.
- CONTRACTOR SHALL PROMPTLY NOTIFY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY CONFLICTS OR PROBLEMS ARE DISCOVERED.
- CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT AND HARDWARE IN ORDER TO MEET THE INTENT OF THE DESIGN AND TO PROVIDE OWNER WITH A COMPLETE AND FULLY OPERATIONAL CABLING SYSTEM AS SPECIFIED. QUESTIONS REGARDING THE INTENT OF THE DESIGN SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ANY DEVICE SHOWN ON THESE DRAWINGS THAT IS LOCATED IN AN OPEN OR HARD CEILING SPACE SHALL HAVE A SINGLE-GANG BOX WITH A CONDUIT TO THE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

APPLICABLE CODES AND STANDARDS

ALL MATERIALS AND WORK SPECIFIED HEREIN SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF:

- TIA-526-7 (OFSTP-7), MEASUREMENT OF OPTICAL FIBER LOSS OF INSTALLED SINGLE-MODE FIBER CABLE PLANT.
- TIA-526-14-B (OFSTP-14), OPTICAL POWER LOSS MEASUREMENTS OF MULTIMODE FIBER CABLE PLANT.
- ANSI/TIA-568-C.0, GENERIC TELECOMMUNICATIONS FOR CUSTOMER PREMISES.
- ANSI/TIA-568-C.1, COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD.
- ANSI/TIA-568-C.2, BALANCED TWISTED PAIR CABLING COMPONENTS STANDARD.
- ANSI/TIA-568-C.3, OPTICAL FIBER CABLING COMPONENTS STANDARDS.
- ANSI/TIA-568-C.4, BROADBAND COAXIAL CABLING COMPONENTS STANDARD.
- ANSI/TIA-569-C, TELECOMMUNICATIONS PATHWAYS AND SPACES.
- ANSI/TIA-606-B, ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE.
- ANSI/TIA-607-B, GENERIC TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES.
- ANSI/TIA-758-B, CUSTOMER-OWNER OUTSIDE PLANT TELECOMMUNICATIONS INFRASTRUCTURE STANDARD.
- ANSI/TIA-862-A, BUILDING AUTOMATION SYSTEMS CABLING STANDARD.
- ANSI/TIA-942-A, TELECOMMUNICATIONS INFRASTRUCTURE STANDARDS FOR DATA CENTERS.
- ANSI/TIA-1005, TELECOMMUNICATIONS INFRASTRUCTURE FOR INDUSTRIAL PREMISES.
- ANSI/TIA-1179, HEALTHCARE FACILITY TELECOMMUNICATIONS INFRASTRUCTURE STANDARD.
- ISO/IEC 11801, GENERIC CABLING FOR CUSTOMER PREMISES.
- IEEE 802.3af, POWER OVER ETHERNET (PoE) STANDARD.
- IEEE 802.3at, POWER OVER ETHERNET + (PLUS).
- IEEE 802.3an, PHYSICAL LAYER AND MANAGEMENT PARAMETERS FOR 10 Gbps OPERATION TYPE 10GBASE-T.
- IEEE 802.3ba, MEDIA ACCESS CONTROL PARAMETERS, PHYSICAL LAYERS AND MANAGEMENT PARAMETERS FOR 40 Gbps AND 100 Gbps OPERATION.
- BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI) TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL.
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - NATIONAL ELECTRICAL CODE.
- UNDERWRITERS LABORATORY (UL) OR EQUIVALENT.

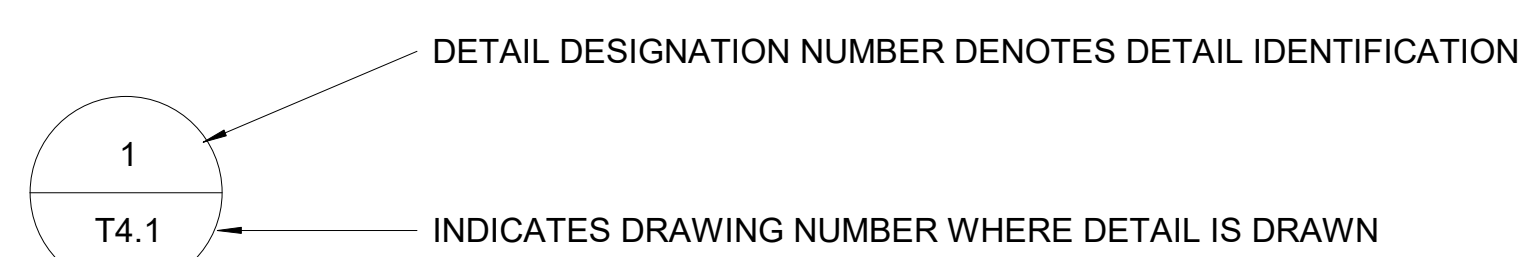
ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
BICSI	BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL
EIA	ELECTRONICS INDUSTRY ASSOCIATION
FCC	FEDERAL COMMUNICATIONS COMMISSION
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ISO	INTERNATIONAL STANDARDS ORGANIZATION
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
POE	POWER OVER ETHERNET
RUS	RURAL UTILITY SERVICE (FORMERLY REA)
SMPTE	SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UL	UNDERWRITERS LABORATORIES, INC.
UON	UNLESS OTHERWISE NOTED

SHEET LIST

T0.0	TELECOM CABLING - GENERAL NOTES AND SYMBOLS
T1.0	TELECOM CABLING - SITE PLAN
T2.1	TELECOM CABLING - GROUND FLOOR PLAN
T2.2	TELECOM CABLING - SECOND FLOOR PLAN
T2.3	TELECOM CABLING - THIRD FLOOR PLAN
T3.1	TELECOM CABLING - GROUND FLOOR RCP
T3.2	TELECOM CABLING - SECOND FLOOR RCP
T3.3	TELECOM CABLING - THIRD FLOOR RCP
T4.1	TELECOM CABLING - TR LAYOUTS, RISER, AND INSTALL DETAILS

CONVENTIONS



LEGEND

- ▲ #** INSTALL (1) CATEGORY 6 CABLE FOR VOICE AND (#) CATEGORY 6A CABLES FOR DATA, WHERE (#) IS THE NUMBER OF DATA CABLES. AT THE DEVICE LOCATION, TERMINATE CATEGORY 6 CABLES WITH CATEGORY 6 JACKS AND TERMINATE CATEGORY 6A CABLES WITH CATEGORY 6A JACKS ALL INSTALLED IN A SINGLE-GANG FACEPLATE MOUNTED AT 18" AFF. UON, OR IN A MODULAR FURNITURE OR FLOOR-BOX ADAPTER PLATE. IN THE TELECOM ROOM, TERMINATE CATEGORY 6 CABLES ON WALL-MOUNTED 110-TYPE BLOCKS AND CATEGORY 6A CABLES ON RACK-MOUNTED CATEGORY 6A PATCH PANELS.
- ▲ #** INSTALL (#) CATEGORY 6A CABLES FOR VOICE AND DATA, WHERE (#) IS THE NUMBER OF CABLES. AT THE DEVICE LOCATION, TERMINATE CABLES WITH CATEGORY 6A JACKS INSTALLED IN A SINGLE-GANG FACEPLATE MOUNTED AT 18" AFF. UON, OR IN A MODULAR FURNITURE OR FLOOR-BOX ADAPTER PLATE. IN THE TELECOM ROOM, TERMINATE CABLES ON A RACK-MOUNTED CATEGORY 6A PATCH PANEL.
- ▲ AP** INSTALL (2) CATEGORY 6A CABLES AND TERMINATE EACH WITH A CATEGORY 6A JACK FOR A WIRELESS ACCESS POINT. AT THE DEVICE LOCATION, INSTALL THE JACKS IN A BISCUIT-TYPE BOX. WHERE CABLES ARE INSTALLED TO AN ACCESSIBLE (DROP-DOWN, CEILING TILE) CEILING, LEAVE 15" OF CABLE COILED ABOVE THE TILE WHERE THE ACCESS POINT IS LOCATED. WHERE CABLES ARE INSTALLED IN AN AREA THAT HAS NO CEILING OR HAS A HARD CEILING, PROVIDE A SINGLE-GANG OUTLET BOX WHERE THE ACCESS POINT IS LOCATED WITH CONDUIT RUNNING BACK TO THE ACCESSIBLE CEILING OR CABLE TRAY. AND LEAVE 15" OF CABLE COILED IN THE CABLE TRAY. IN THE TELECOM ROOM, TERMINATE THE CABLES ON A RACK-MOUNTED 48-PORT CATEGORY 6A PATCH PANEL.
- △ W** INSTALL (1) CATEGORY 6 CABLE AND TERMINATE WITH A CATEGORY 6 JACK FOR A WALL-PHONE. AT THE DEVICE LOCATION, INSTALL THE JACK IN A SINGLE-GANG WALL-PHONE FACEPLATE MOUNTED AT 48" AFF. IN THE TELECOM ROOM, TERMINATE THE CABLE ON A WALL-MOUNTED 110-TYPE BLOCK.
- ▲ D** INSTALL (2) CATEGORY 6A CABLES AND TERMINATE WITH CATEGORY 6A JACKS FOR A FLAT SCREEN DISPLAY. AT THE DEVICE LOCATION, INSTALL JACKS IN A SINGLE-GANG FACEPLATE MOUNTED AT APPROXIMATELY 50" AFF. UON (SEE AV DRAWINGS FOR DETAILS). IN THE TELECOM ROOM, TERMINATE THE CATEGORY 6A CABLES ON A RACK-MOUNTED 48-PORT CATEGORY 6A PATCH PANEL.
- ▲ AVR** INSTALL (4) CATEGORY 6A CABLES AND TERMINATE WITH CATEGORY 6A JACKS FOR AN AUDIO-VISUAL EQUIPMENT RACK. AT THE DEVICE LOCATION, INSTALL JACKS IN A SINGLE-GANG FACEPLATE MOUNTED BEHIND THE RACK (COORDINATE EXACT HEIGHT WITH AV DRAWINGS). IN THE TELECOM ROOM, TERMINATE THE CATEGORY 6A CABLES ON A RACK-MOUNTED 48-PORT CATEGORY 6A PATCH PANEL.
- ▲ DS** INSTALL (2) CATEGORY 6A CABLES FOR DIGITAL SIGNAGE. AT THE DEVICE LOCATION, TERMINATE THE CABLES WITH CATEGORY 6A JACKS INSTALLED IN A SINGLE-GANG FACEPLATE MOUNTED AT APPROXIMATELY 50" AFF. UON (SEE AV DRAWINGS FOR DETAILS). IN THE TELECOM ROOM, TERMINATE CABLES ON A RACK-MOUNTED CATEGORY 6A PATCH PANEL.
- ▲ SEC** INSTALL (2) CATEGORY 6A CABLES FOR A SECURITY CAMERA. AT THE DEVICE LOCATION, TERMINATE THE CABLES WITH CATEGORY 6A JACKS INSTALLED IN A BISCUIT-TYPE BOX. IN THE TELECOM ROOM, TERMINATE THE CABLES ON A RACK-MOUNTED CATEGORY 6A PATCH PANEL.
- ▲ P** INSTALL (2) CATEGORY 6A CABLES FOR A PROJECTOR. AT THE DEVICE LOCATION, TERMINATE THE CABLES WITH CATEGORY 6A JACKS INSTALLED IN A BISCUIT-TYPE BOX. IN THE TELECOM ROOM, TERMINATE CABLES ON A RACK-MOUNTED CATEGORY 6A PATCH PANEL.
- ▲ AVD** INSTALL (1) CATEGORY 6A CABLE AND TERMINATE WITH A CATEGORY 6A PLUG FOR AN AUDIO-VISUAL DEVICE AT THIS LOCATION. IN THE TELECOM ROOM, TERMINATE THE CABLES ON A RACK-MOUNTED 48-PORT CATEGORY 6A PATCH PANEL. SEE AV CONDUIT DIAGRAMS FOR BOX AND CONDUIT REQUIREMENTS.
- △ ET** INSTALL (1) CATEGORY 6 CABLE AND LEAVE 10 FEET COILED AT THE DEVICE LOCATION FOR AN EMERGENCY TELEPHONE AT THIS LOCATION. IN THE TELECOM ROOM, TERMINATE THE CABLE ON A WALL-MOUNTED 110-TYPE BLOCK.
- INDICATES THAT CABLES ARE TO BE INSTALLED IN A FLOOR BOX OR POKE-THROUGH.
- INDICATES THAT CABLES ARE TO BE INSTALLED IN OR ABOVE THE CEILING.

KEY PLAN:

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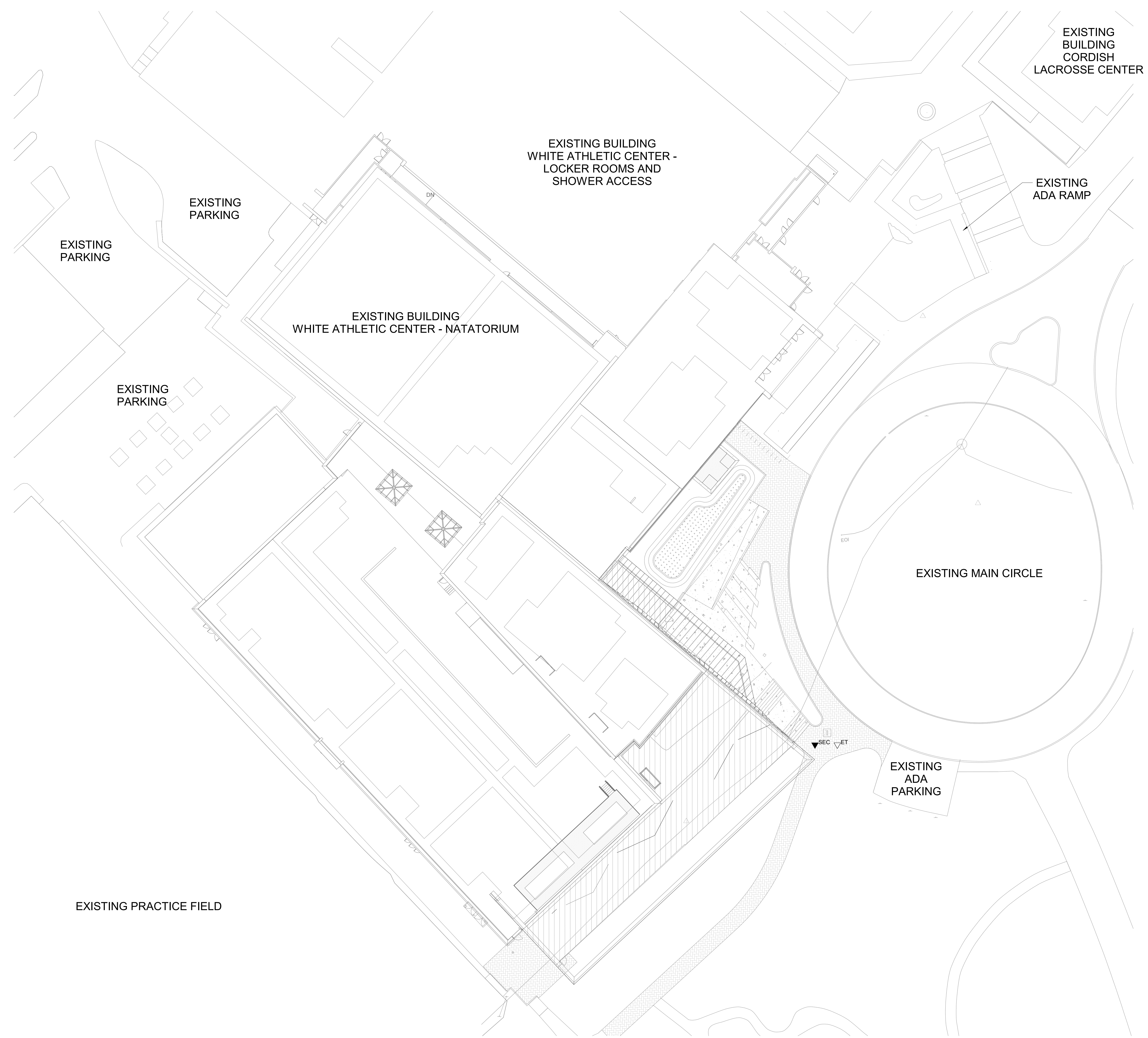
Revisions:		
No.	Date	Description

RALPH S. O'CONNOR CENTER
 FOR RECREATION AND
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JOHNS HOPKINS UNIVERSITY

Job No.	18016	JSC	Drawn
Scale	1/4" = 1'-0"	JBC	Checked
Date	10/31/2019	JBC	Approved

Drawing Title	TELECOM CABLING - GENERAL NOTES AND SYMBOLS	Drawing Number	T0.0
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1 TELECOMMUNICATIONS - SITE PLAN
1" = 20'-0"

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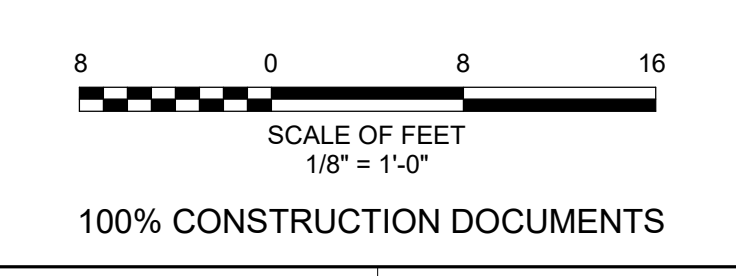
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Scale	1" = 20'-0"	JBC	Checked
Date	10/31/2019	JBC	Approved

Drawing Title	TELECOM CABLING - SITE PLAN	Drawing Number	T1.0
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1 TELECOM CABLING - GROUND LEVEL
1/8" = 1'-0"



MJMA
architects

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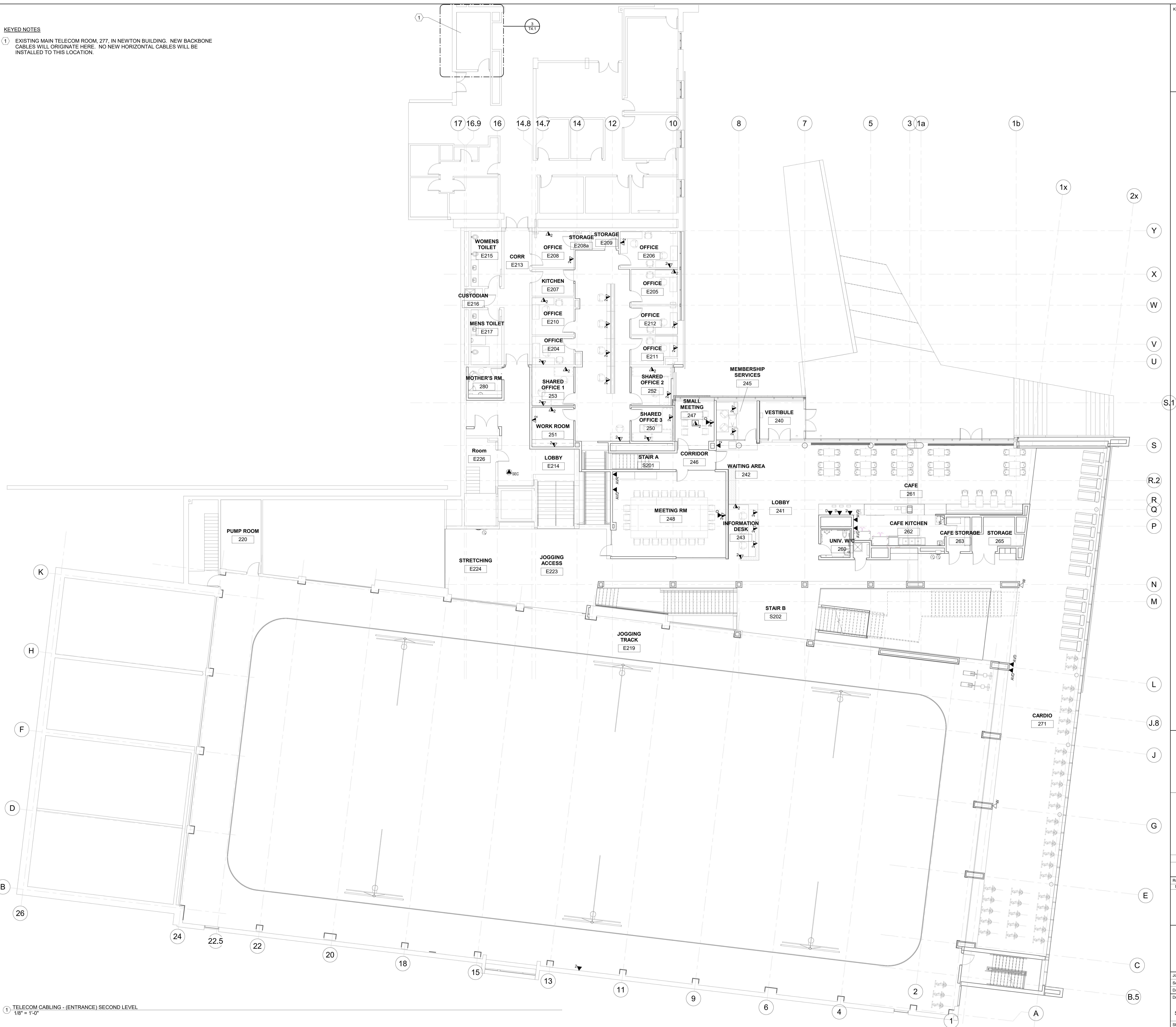
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Date	10/31/2019	JBC	Approved

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Drawing Number: T2.1
Sheet: 01

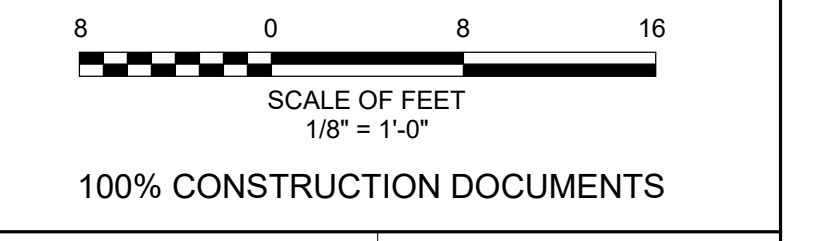
KEYED NOTES

① EXISTING MAIN TELECOM ROOM, 277, IN NEWTON BUILDING. NEW BACKBONE CABLES WILL ORIGINATE HERE. NO NEW HORIZONTAL CABLES WILL BE INSTALLED TO THIS LOCATION.

① TELECOM CABLING - (ENTRANCE) SECOND LEVEL
1/8" = 1'-0"



KEY PLAN



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Drawing Title: TELECOM CABLING - SECOND FLOOR PLAN
 Drawing Number: T2.2
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1 TELECOM CABLING - THIRD LEVEL
1/8" = 1'-0"

SCALE OF FEET
1/8" = 1'-0"
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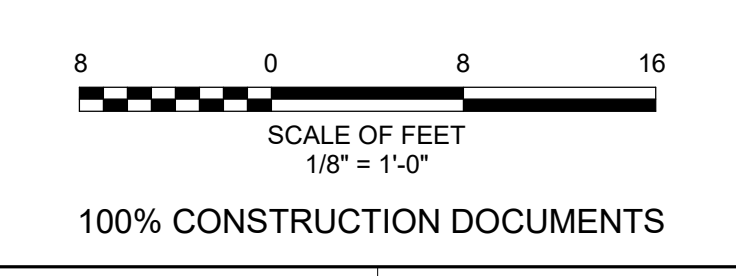
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Date	10/31/2019	JBC	Approved

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Drawing Number: T2.3



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1 TELECOM CABLING - GROUND LEVEL RCP
1/8" = 1'-0"



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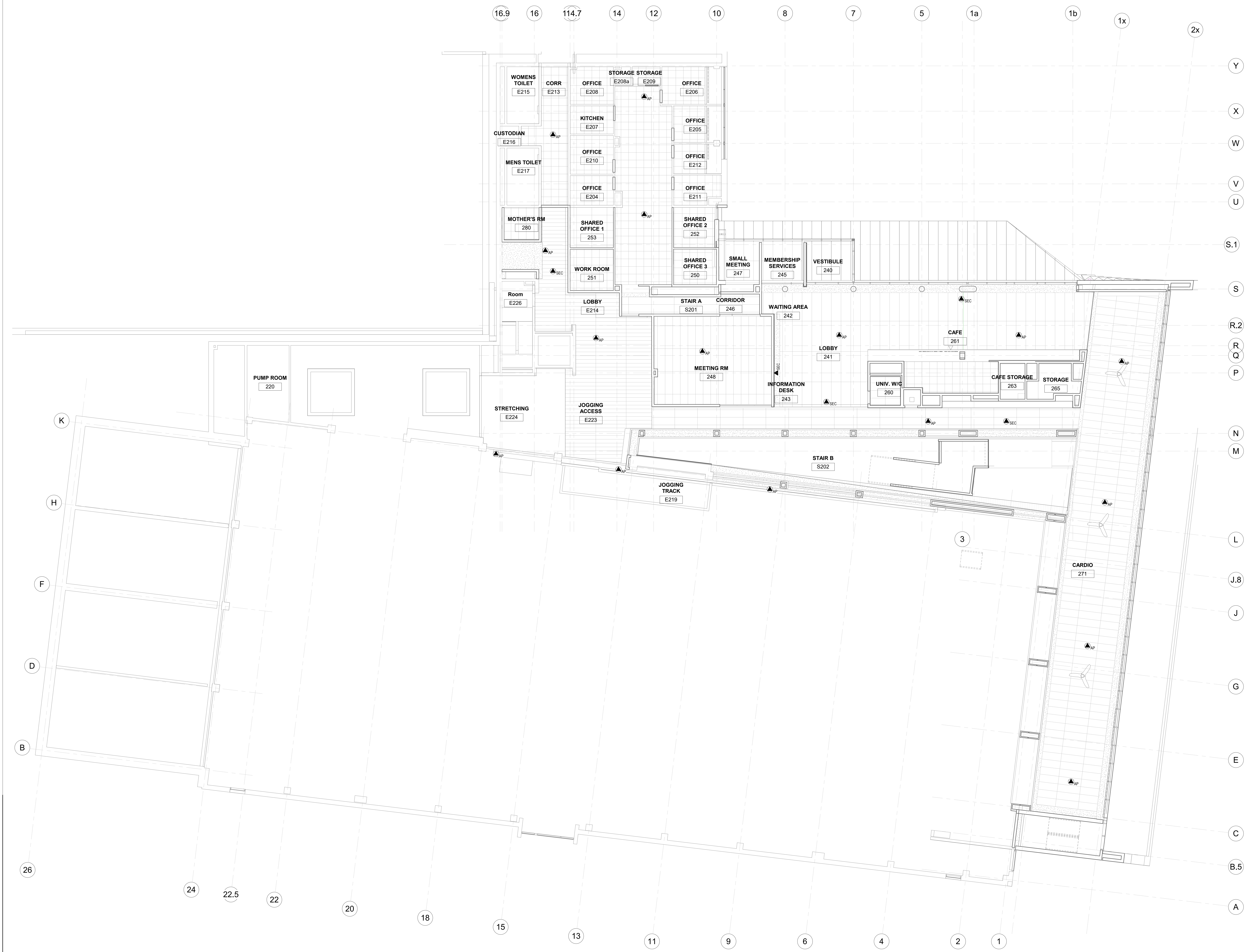
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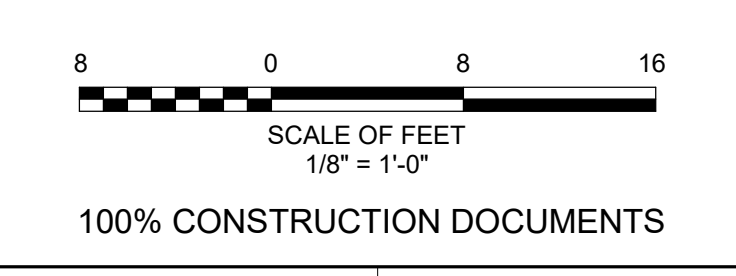
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1 TELECOM CABLING - (ENTRANCE) SECOND LEVEL RCP
1/8" = 1'-0"



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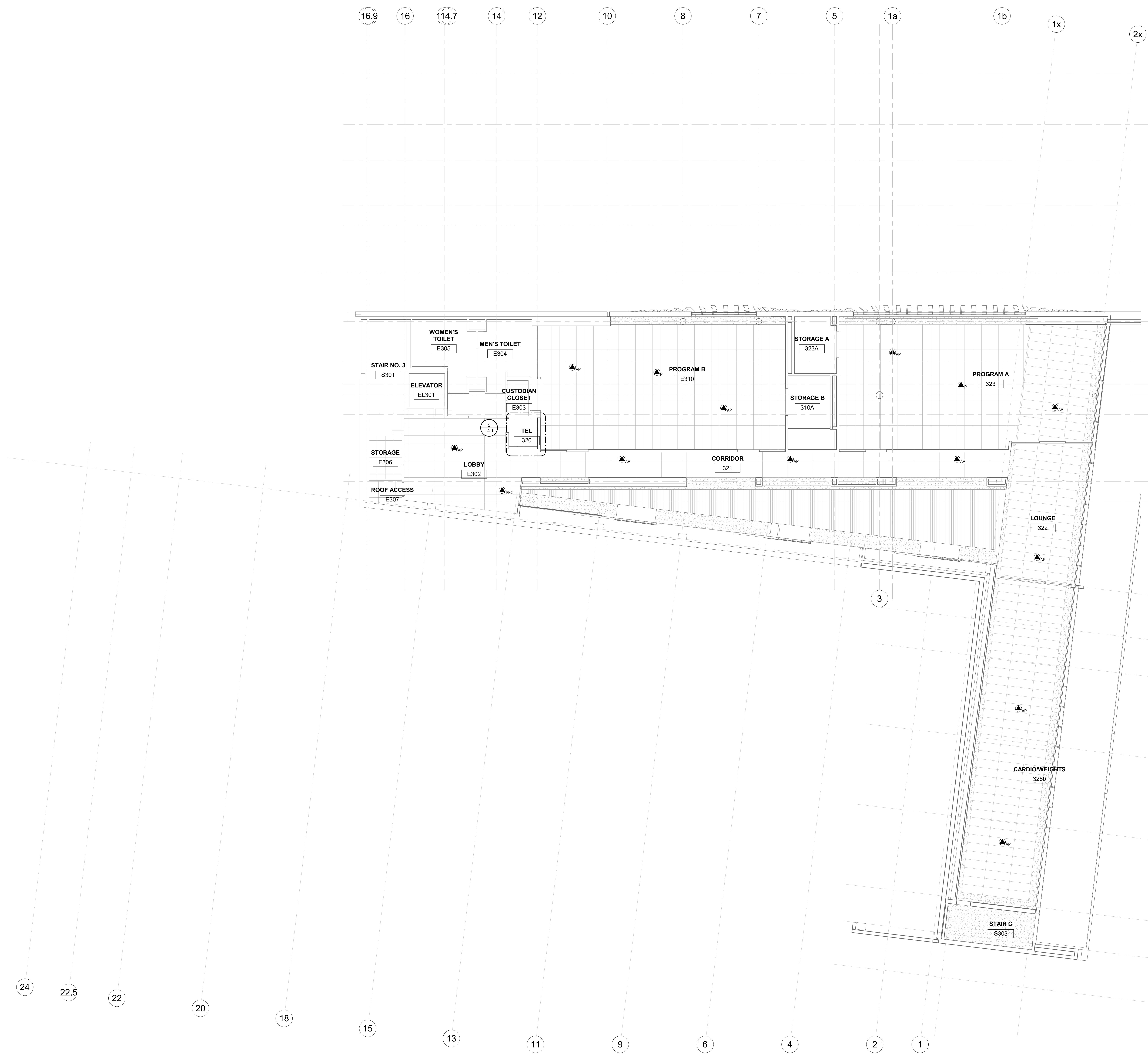
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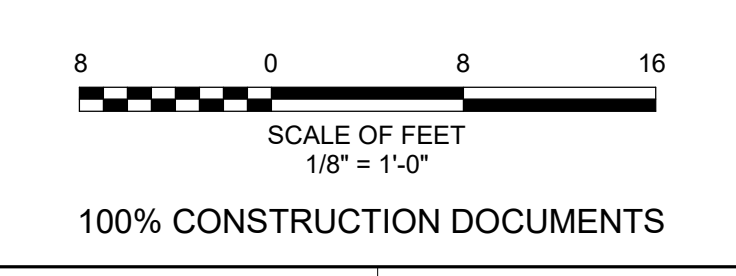
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 Drawing Number: **T3.2**

Sheet OF



KEY PLAN:

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A



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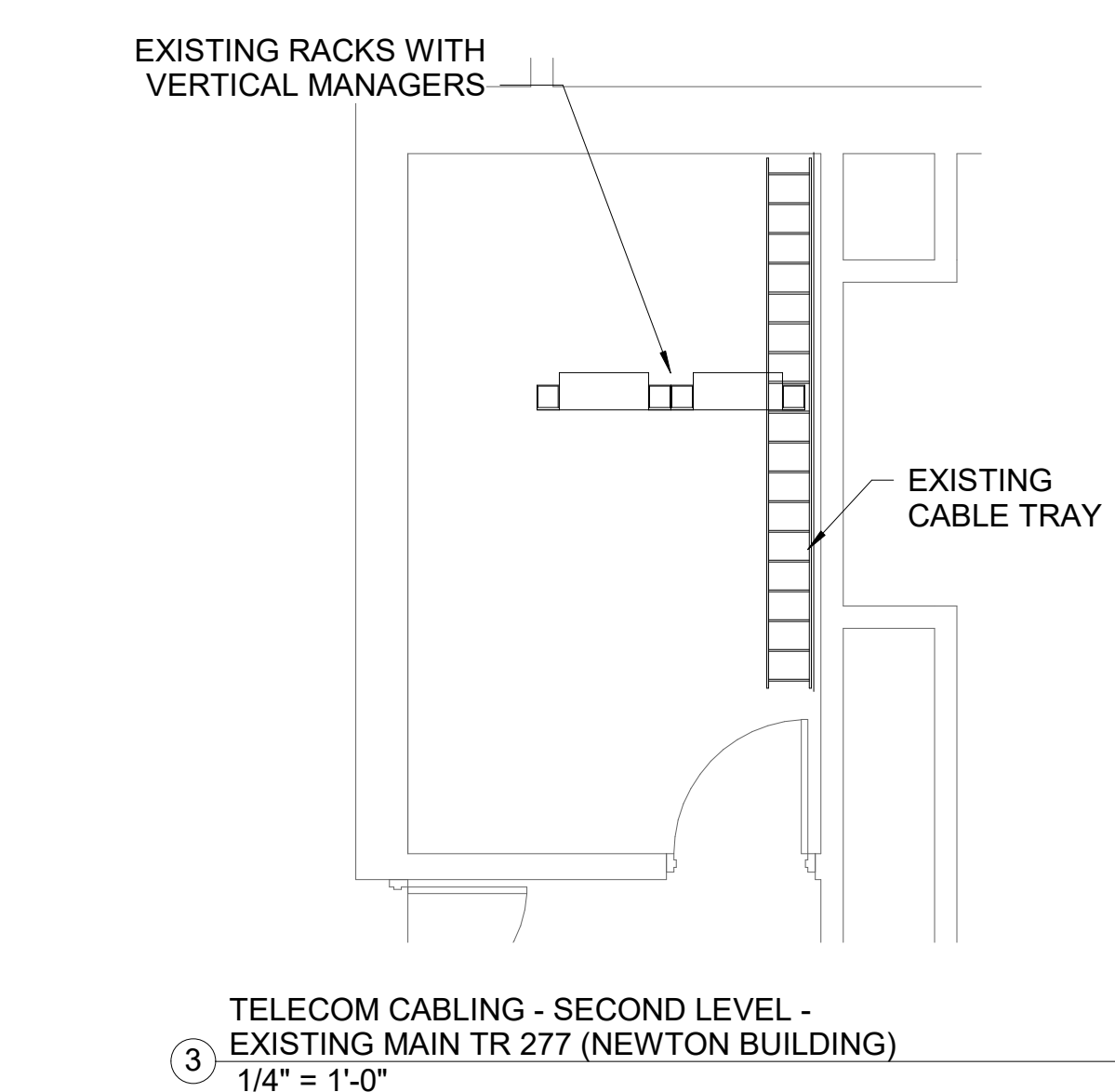
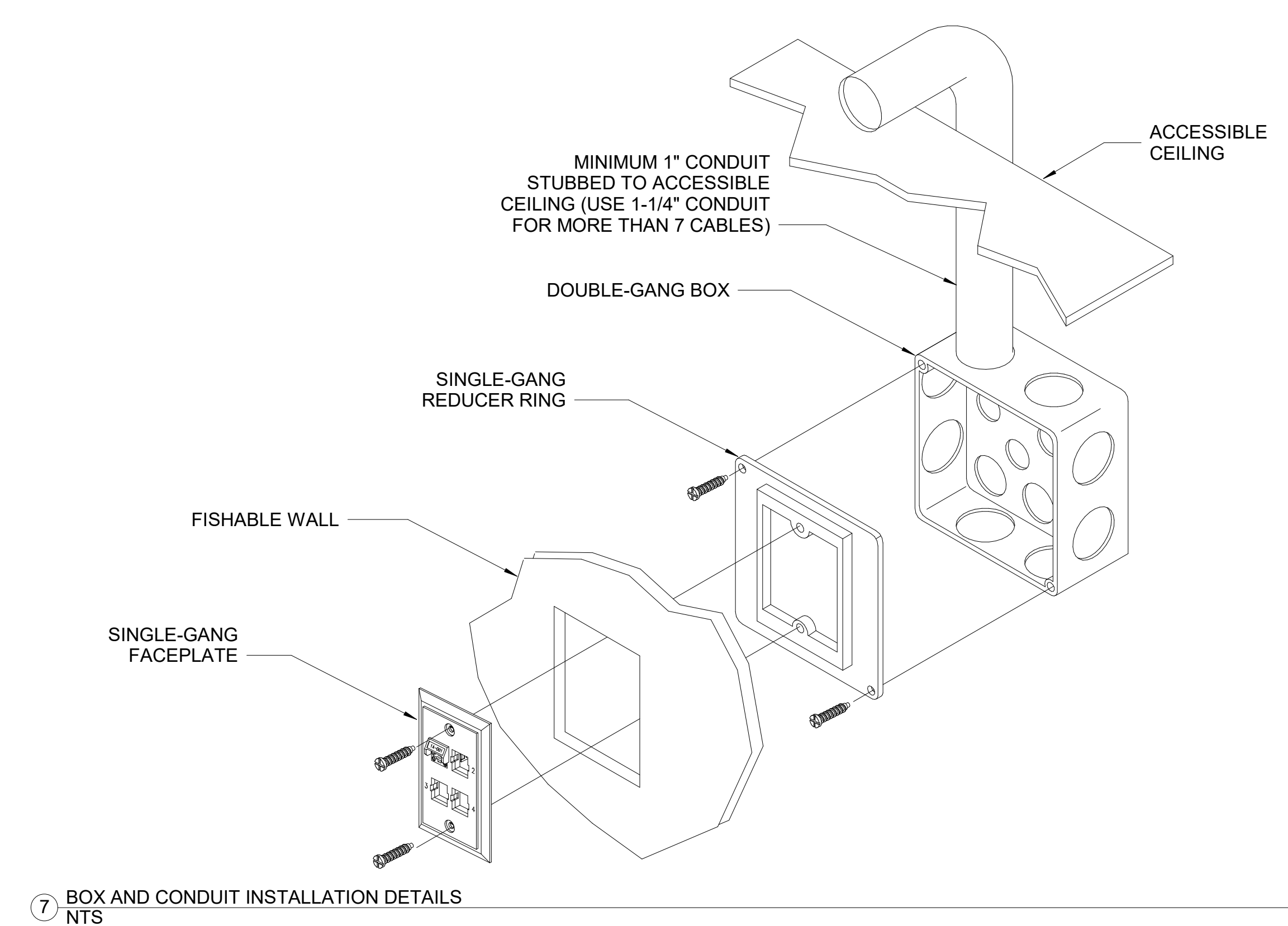
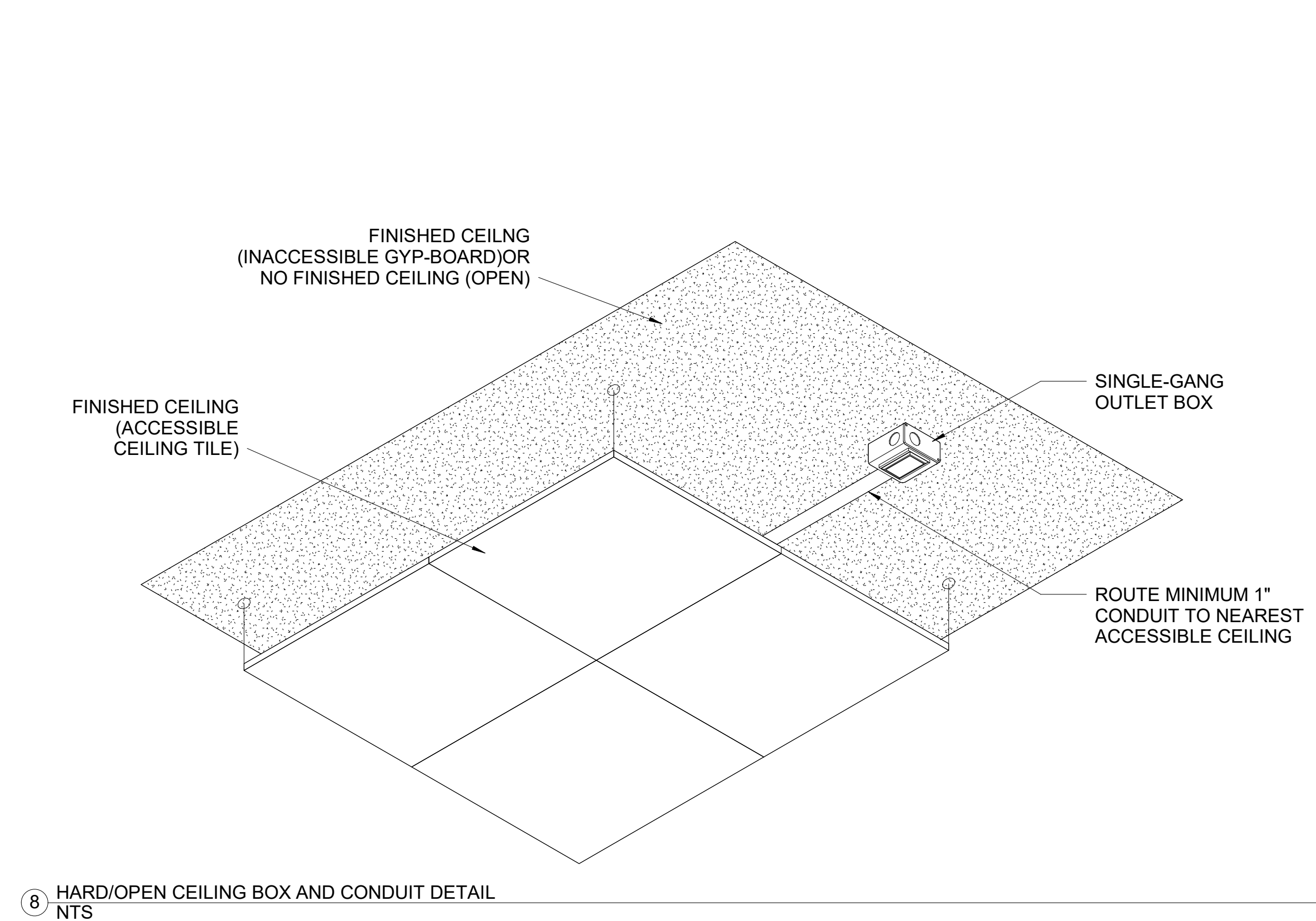
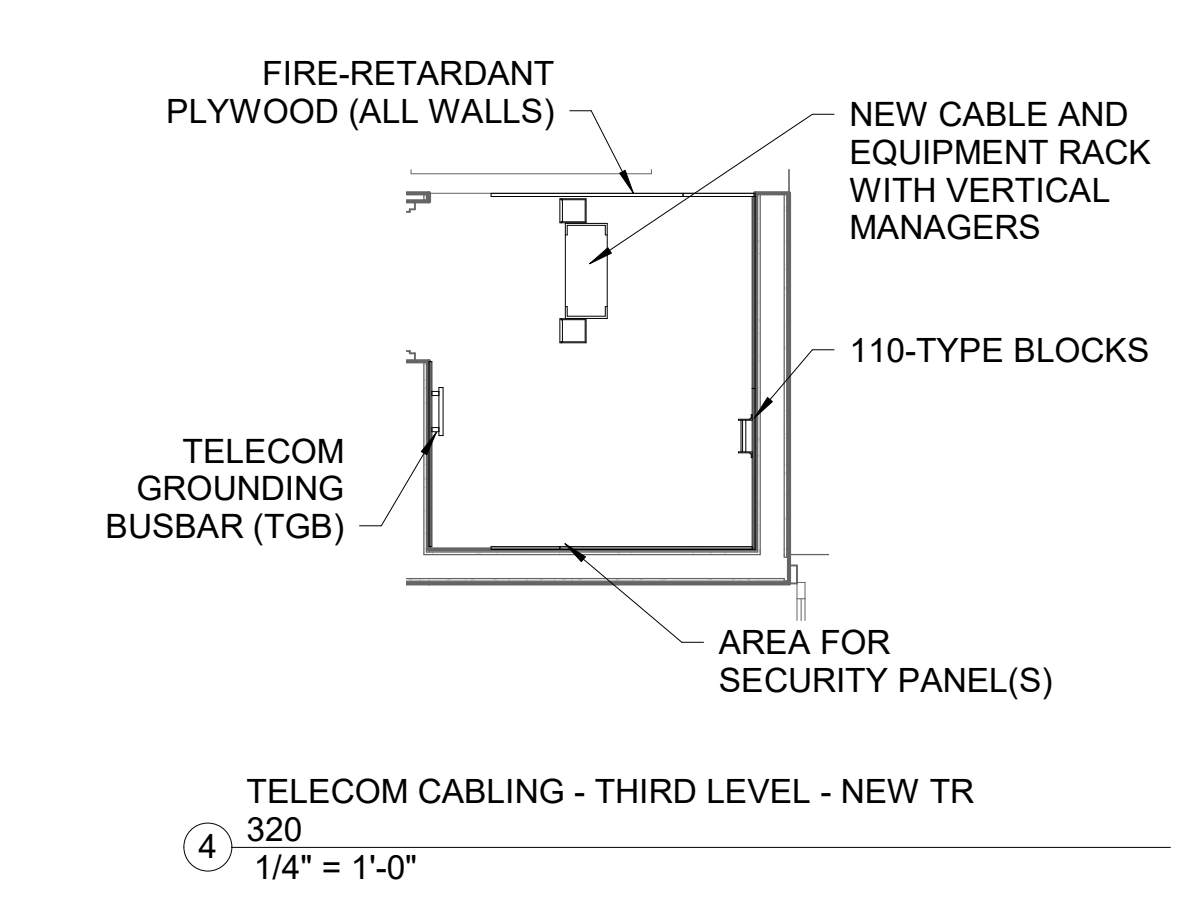
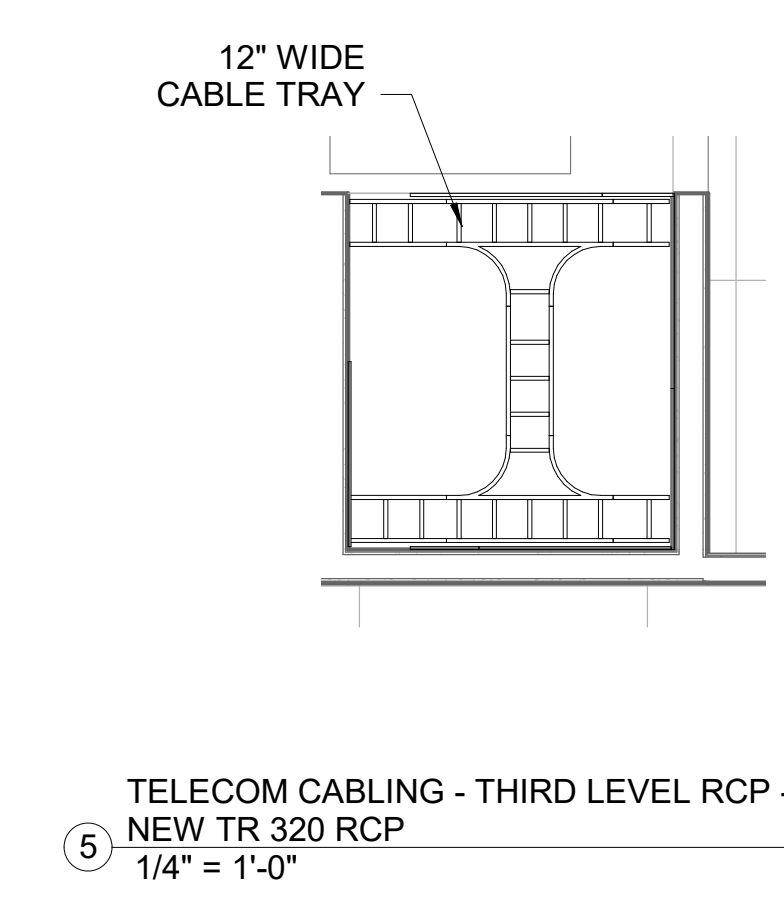
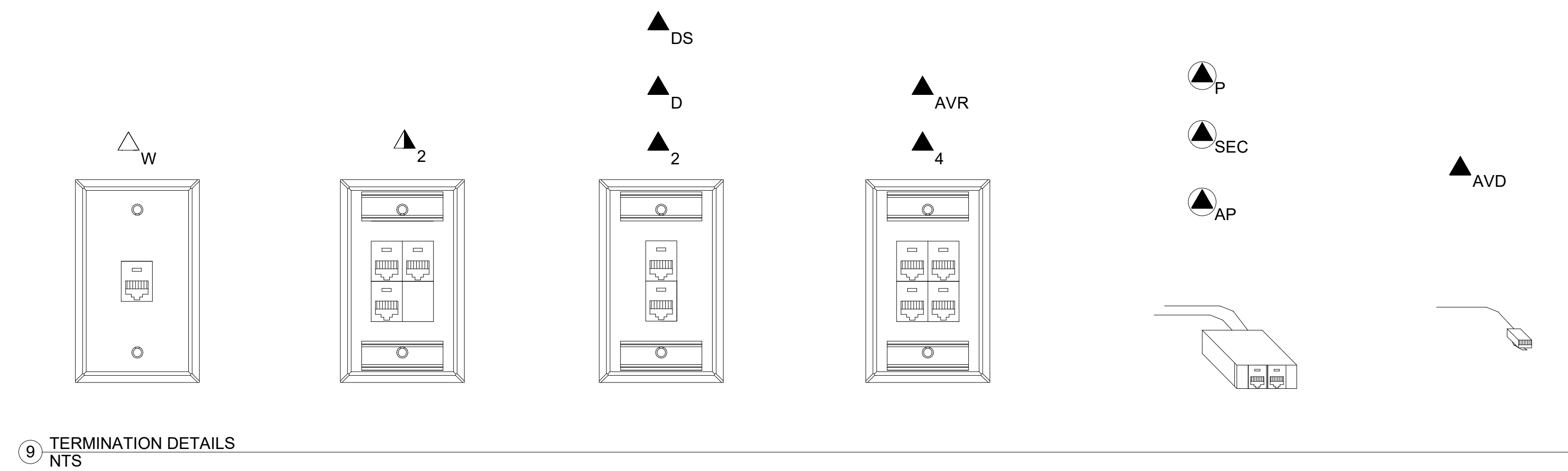
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 GWVO INC.
 800 W. NORTH AVE., SUITE 800
 BALTIMORE, MARYLAND 21201, 410-552-1889
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**RALPH S. O'CONNOR CENTER
 FOR RECREATION AND
 WELL-BEING**
 JOHNS HOPKINS UNIVERSITY

Job No.	18016	JSC	Drawn
Scale	1/8" = 1'-0"	JBC	Checked
Date	10/31/2019	JBC	Approved

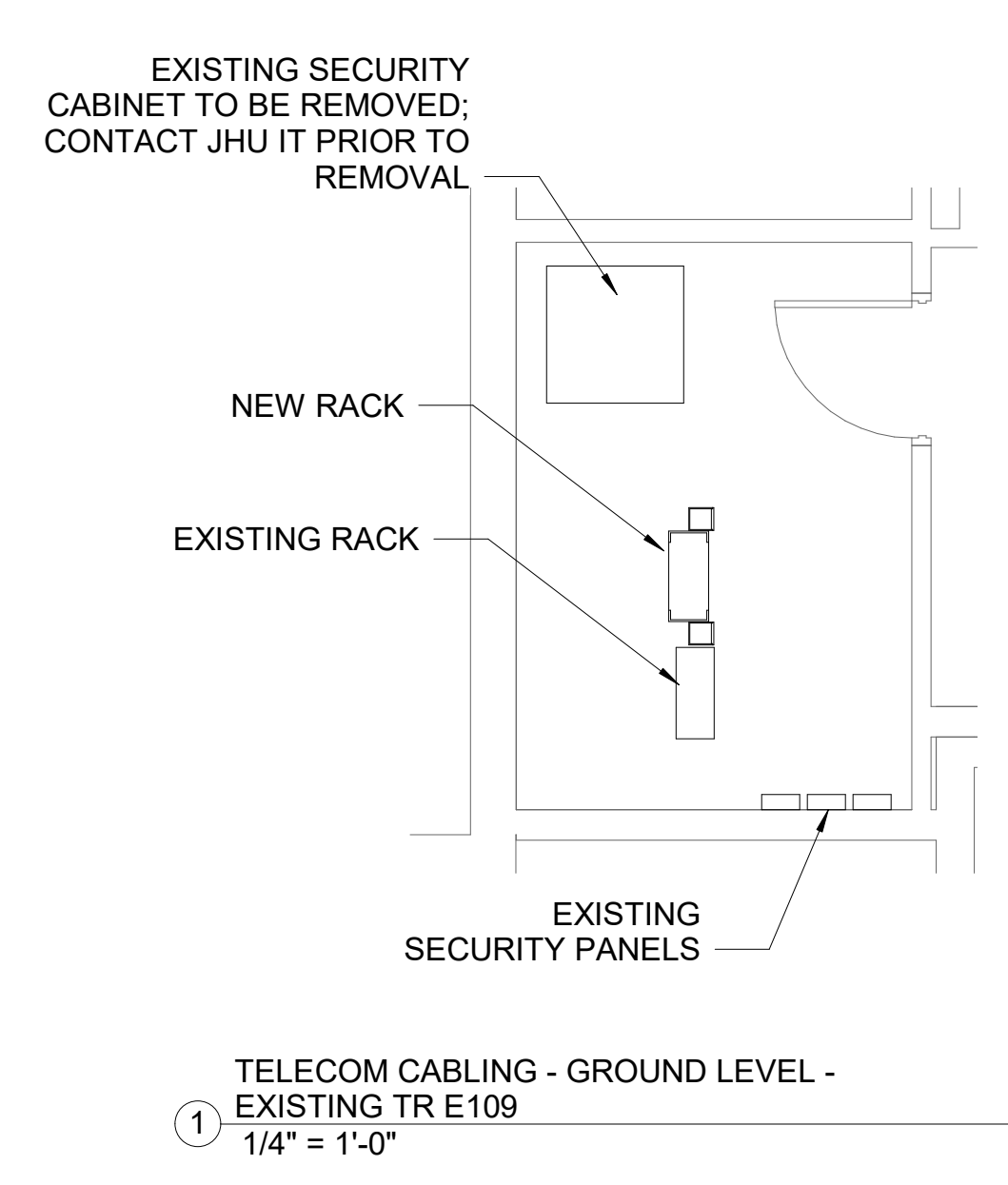
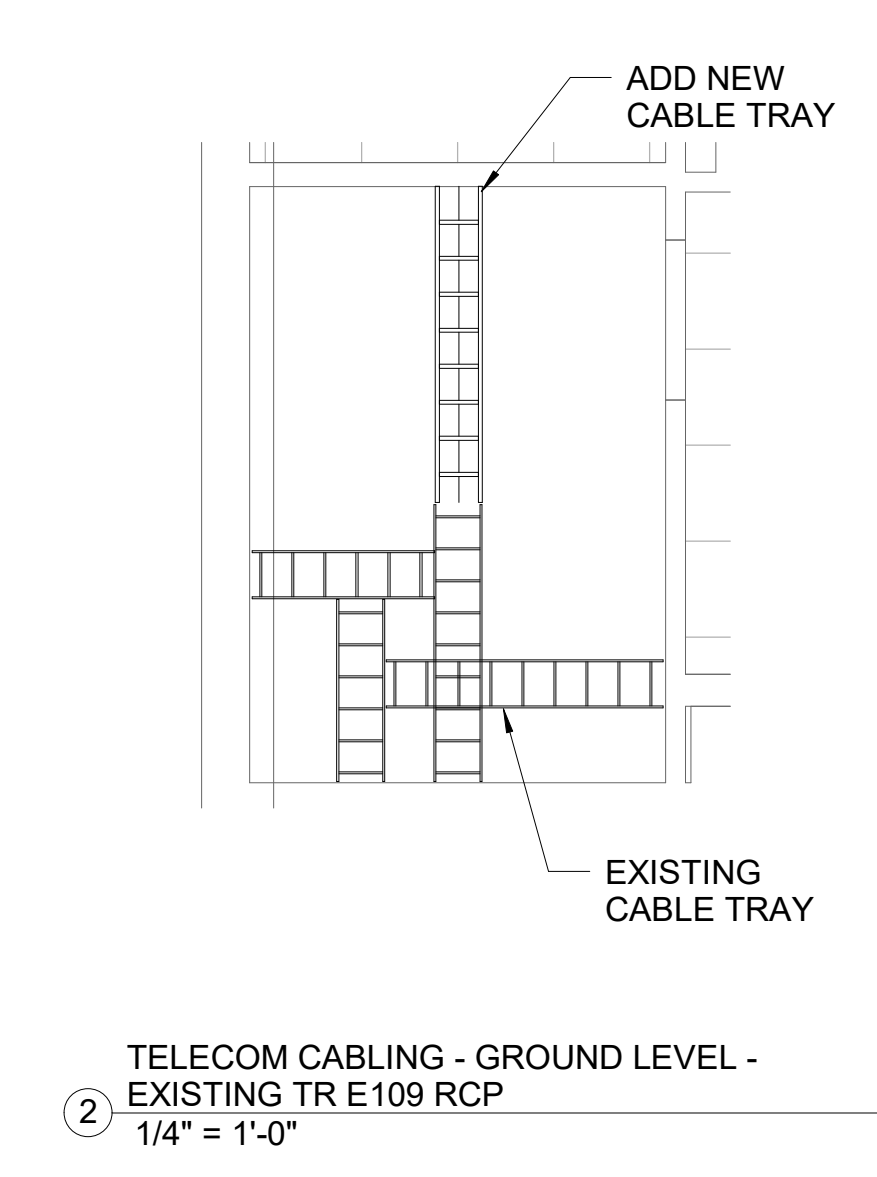
Drawing Title: TELECOM CABLING - THIRD FLOOR RCP
 Drawing Number: T3.3



		TR 320 (NEW)	THIRD FLOOR
MAIN TR 277 (EXIST)			SECOND FLOOR
	TR E109 (EXIST)		GROUND FLOOR

- INSTALL (1) 12-STRAND SINGLEMODE (OS2) AND (1) 12-STRAND MULTIMODE (OM4) ARMORED OPTICAL FIBER CABLE FROM THE EXISTING MAIN TELECOM ROOM IN NEWTON, 277. IN THE MAIN TR 277, TERMINATE WITH LC CONNECTORS INSTALLED IN ADAPTER PANELS MOUNTED IN AN EXISTING FIBER HOUSING. IN THE NEW TELECOM ROOM, 320, TERMINATE WITH LC CONNECTORS INSTALLED IN ADAPTER PANELS MOUNTED IN A NEW FIBER HOUSING.
- INSTALL (1) 100-PAIR CATEGORY 3 COPPER RISER CABLE FROM THE EXISTING MAIN TELECOM ROOM IN NEWTON, 277. ON EACH END, TERMINATE ON A RACK-MOUNTED 24-PORT PATCH PANEL, 1-PAIR PER PORT (COIL 25TH PAIR).

6 TELECOM CABLING RISER DIAGRAM
NTS



100% CONSTRUCTION DOCUMENTS

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No.	Date	Description

RALPH S. O'CONNOR CENTER FOR RECREATION AND WELL-BEING

JOHNS HOPKINS UNIVERSITY

Job No.	18016	JSC	Drawn
Scale	As indicated	JBC	Checked
Date	10/31/2019	JBC	Approved

Drawing Title: TELECOM CABLING - TR LAYOUTS, RISER, AND INSTALL DETAILS
Drawing Number: **T4.1**