

## DRAWING LIST



1. TECHNOLOGY T-SERIES DRAWINGS CONTAIN REQUIREMENTS FOR VARIOUS COMMUNICATIONS SYSTEMS INCLUDING BUT NOT LIMITED TO TELECOMMUNICATIONS, DATA/VIDEO/CABLE INFRASTRUCTURE, ELECTRONIC SURVEILLANCE SYSTEMS, INTRUSION DETECTION, AND AUDIOVISUAL SYSTEMS.
2. GENERAL CONDUIT ROUTING IS SHOWN AND SHALL BE COORDINATED WITH ALL TRADE. ALL TELECOMMUNICATIONS RACEWAYS SHALL CONFORM TO THE RECOMMENDATIONS OF ITA/EIA 569.
3. RACEWAYS SHALL BE SIZED PER THE RECOMMENDATIONS OF ITA/EIA 569 UNLESS OTHERWISE STATED.
4. DEVICE LOCATIONS SHOWN ON DRAWINGS INDICATE GENERAL LOCATIONS. VERIFY EXACT LOCATIONS AND MOUNTING CONDITIONS WITH ARCHITECTURAL DETAILS AND PLANS. COORDINATE INSTALLATIONS WITH OTHER TRADES AND EXISTING CONDITIONS.
5. PROVIDE TYPE 106 AND DECORA MOUNTING STRAPS AS REQUIRED TO MOUNT JACS INTO VARIOUS FACELATE TYPES INCLUDING FLANGE BOARDS AND SURFACE RACEWAYS. ALL SURFACE MOUNTED RACEWAYS SHALL BE CONFOURED WITH BEND RADIUS THAT WILL ACCEPT FIBER OPTIC CABLE.
6. WORK SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C. AND ALL RULES AND REGULATIONS OF THE LOCAL MUNICIPALITY.
7. WORK SHALL MEET THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
8. PERMITS NECESSARY FOR THIS WORK SHALL BE OBTAINED BY THE ELECTRICAL CONTRACTOR AND HE SHALL PAY ALL FEES.
9. EQUIPMENT SHALL BEAR UL E LABELS AND BE GROUNDED AND BONDED IN ACCORDANCE WITH THE N.E.C.
10. ELECTRICAL TRADE SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, PAINTING, CONCRETE, ETC. REQUIRED FOR COMPLETION.
11. ANY ADDITIONAL COST TO ENSURE DELIVERY OF ANY SYSTEM COMPONENTS TO MEET THE SCHEDULE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
12. INSTALL ALL CONDUIT TIGHT TO UNDERSIDE OF THE FLOOR SLAB ABOVE. LOCATE JUNCTION BOXES AS REQUIRED TO ALLOW ACCESS AFTER MECHANICAL EQUIPMENT AND DUCTS ARE INSTALLED. COORDINATE EXACT LOCATIONS WITH THE PROJECT CONTRACTOR.
13. THE USE OF APPROVED TYPE EXPANSION FITTINGS SHALL BE REQUIRED ON ALL RACEWAYS WHICH CROSS ANY BUILDING EXPANSION JOINTS.
14. COORDINATE CEILING TYPES WITH FIELD CONDITIONS.
15. FIELD VERIFY WALL CONSTRUCTIONS TYPES.
16. ALL CEILING MOUNTED DEVICES SHALL BE MOUNTED IN THE CENTER OF THE CEILING TILES. UNLESS OTHERWISE NOTED.
17. MAINTAIN ACCESS TO SYSTEMS OPEN RACEWAYS ABOVE LAY-IN CEILINGS.
18. COORDINATE ROUTING OF COMMUNICATIONS CABLES TO MAINTAIN MINIMUM 12" VERTICAL CLEARANCE ABOVE THE SUPPORTS. IN ADDITION TO MINIMUM 6" CLEARANCE ON AT LEAST ONE SIDE OF SUPPORTS. MAINTAIN ACCESSIBILITY OF CABLES IN ALL LOCATIONS.
19. PROTECT CABLE TO AVOID PAINTING AND EXPOSURE OF OTHER LIQUIDS TO TECHNOLOGY CABLEING INCLUDING BUT NOT LIMITED TO TELECOMMUNICATIONS, DATA/VIDEO/CABLE INFRASTRUCTURE, AUDIOVISUAL SYSTEMS, LOCAL SOUND SYSTEMS, ACCESS CONTROL, AND ELECTRONIC SURVEILLANCE SYSTEMS.








## AUDIO VISUAL

AL	ANTENNA, ASSISTIVE LISTENING, WALL MOUNTED
AW	ANTENNA, WIRELESS MIC, WALL MOUNTED
AV	AV CONNECTION, CEILING MOUNTED
AV	AV CONNECTION, WALL MOUNTED
AV	AV CONNECTION, MOUNTED IN FLOOR BOX
AV	AV CONNECTION, MOUNTED IN POKE THRU
CP	CONTROL, PANEL
LV	LOW VOLTAGE SWITCH
MC	MICROPHONE, CEILING MOUNTED
MC	MICROPHONE, WALL MOUNTED
MF	MICROPHONE, FURNITURE MOUNTED
MS	MOTION SENSOR, CEILING MOUNTED
PS	PROJECTOR SCREEN
PS	PROJECTOR SCREEN CONTROL
ST	SYSTEMS TERMINAL CABINET, DRAWN TO SCALE
TV	TV CONTROL
AL	ASSISTIVE LISTENING DEVICE, CEILING MOUNTED
AW	ASSISTIVE LISTENING DEVICE, WALL MOUNTED
AV	AUDIO VISUAL PANEL
C	VIDEO CAMERA, CEILING MOUNTED
C	VIDEO CAMERA, WALL MOUNTED
IR	INFRARED RECEIVER, CEILING MOUNTED
IR	OCCUPANCY SENSOR, CEILING MOUNTED
RF	RADIO FREQUENCY RECEIVER, CEILING MOUNTED
RF	RADIO FREQUENCY RECEIVER, WALL MOUNTED
S	SPEAKER, RECESSED AND CEILING MOUNTED
S	SPEAKER, SURFACE AND CEILING MOUNTED
S	SPEAKER, PENDANT MOUNTED
SR	SPEAKER, RECESSED AND WALL MOUNTED
S	SPEAKER/MICROPHONE, RECESSED AND CEILING MOUNTED
S	SPEAKER/MICROPHONE, RECESSED AND WALL MOUNTED
TV	CATV OUTLET, CEILING MOUNTED
TV	CATV OUTLET, WALL MOUNTED
VC	VOLUME CONTROLLER
VD	VIDEO DISPLAY, CEILING MOUNTED
VD	VIDEO DISPLAY, PENDANT MOUNTED
VD	VIDEO DISPLAY, RECESSED AND WALL MOUNTED
VD	VIDEO DISPLAY, SURFACE AND WALL MOUNTED
VP	VIDEO PROJECTOR, CEILING MOUNTED
VP	VIDEO PROJECTOR, RECESSED AND WALL MOUNTED
VP	VIDEO PROJECTOR, SURFACE AND WALL MOUNTED
W1	WALL MOUNTED AUDIO/VISUAL BACKBOX
W2	
W3	
W4	
W5	
W6	
W7	
W8	
W9	
W10	
W11	
W12	
PS	PROJECTOR SCREEN EQUIPMENT TAG

W1	
W2	
W3	
W4	
W5	
W6	WALL MOUNTED AUDIO/VISUAL
W7	BACKBOX
W8	
W9	
W10	
W11	
W12	
PS 1	PROJECTION SCREEN EQUIPMENT TAG

C1-XX  
 X SECURITY CAMERA, C1-XX = CAMERA TAG  
 Y NUMBER  
 Z TYPE AS DEFINED BY "X"  
 A - EXTERIOR, VANDAL RESISTANT WEATHERPROOF FIXED CAMERA  
 B - EXTERIOR, VANDAL RESISTANT WEATHER PROOF PTZ CAMERA  
 C - EXTERIOR, VANDAL RESISTANT WEATHERPROOF WIDE DYNAMIC RANGE (CANOPY)  
 D - INTERIOR, FIXED CAMERA  
 E - INTERIOR, WIDE DYNAMIC RANGE (FACING EXTERIOR DOOR) CAMERA  
 F - INTERIOR, FIXED CAMERA, CORRIDORS  
 G - INTERIOR, CAMERA, ELEVATIONS  
 H - INTERIOR, FIXED, 180 DEGREE MULTI-MAGER, WIDE DYNAMIC RANGE  
 I - INTERIOR, FIXED, 180 DEGREE MULTI-MAGER, WIDE DYNAMIC RANGE  
 J - INTERIOR, FIXED, SINGLE SENSOR PANORAMIC FISH EYE  
 K - EXTERIOR, FIXED, 360 DEGREE CAMERA, WIDE DYNAMIC RANGE  
 L - INTERIOR, FIXED, 360 DEGREE CAMERA, WIDE DYNAMIC RANGE  
 M - EXTERIOR, FIXED, 360 DEGREE PTZ CAMERA, WIDE DYNAMIC RANGE, POLE MOUNTED  
 COVERAGE AREA DEFINED BY "Y"  
 150 = 150 DEGREE COVERAGE ANGLE  
 270 = 270 DEGREE COVERAGE ANGLE  
 300 = 300 DEGREE COVERAGE ANGLE  
 MOUNTING CONDITION DEFINED BY "Z"  
 WM = WALL MOUNTED CAMERA  
 PM = POLE MOUNTED CAMERA  
 CM = CEILING MOUNTED CAMERA  
 PD = PENDANT MOUNTED CAMERA  
 CR = CORNER MOUNTED CAMERA  
 CT = CABLE TRAY MOUNTED  
 CEILING MOUNTED FIXED SECURITY CAMERA  
 WALL MOUNTED SECURITY CAMERA

MOUNTING CONDITION DEFINED BY "Z"  
W/M = WALL MOUNTED CAMERA

-  CAMERA
-  CEILING MOUNTED FIXED SECURITY CAMERA
-  WALL MOUNTED SECURITY CAMERA
-  PTZ CEILING MOUNTED PAN, TILT, ZOOM SECURITY CAMERA
-  PTZ WALL MOUNTED PAN, TILT, ZOOM SECURITY CAMERA
-  WALL MOUNTED 360° SECURITY CAMERA
-  POLE MOUNTED 360° SECURITY CAMERA

## RAY COMMUNICATION SYSTEM

AS AREA OF RESCUE TWO-WAY COMMUNICATION STATION

AC AREA OF RESCUE TWO-WAY COMMUNICATION COMMAND STATION

## RAY COMMUNICATION SYSTEM

AS AREA OF RESCUE TWO-WAY COMMUNICATION STATION

AC AREA OF RESCUE TWO-WAY COMMUNICATION COMMAND STATION

**NOTE:** THIS IS A COMPLETE LIST OF ELECTRICAL SYMBOLS AND ABBREVIATIONS FOR REFERENCE ONLY. SYMBOLS AND ABBREVIATIONS SHOWN MAY OR MAY NOT BE USED ON THIS PROJECT.

[illegible]

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## Notes

# 1 TECHNOLOGY SYSTEM RESPONSIBILITIES TABLE

Issued/Revision	By	Appd	YYYY.MM.DD
File Name: N/A	Author	Designer	Checker
	Dwn.	Dsgn.	Chkd.
			07/31/23
			YYYY.MM.DD

Client/Project Logo

TUHS ICU Renovation

3401 N Broad St, Philadelphia, PA 19140

## TECHNOLOGY NOTES

Project No.

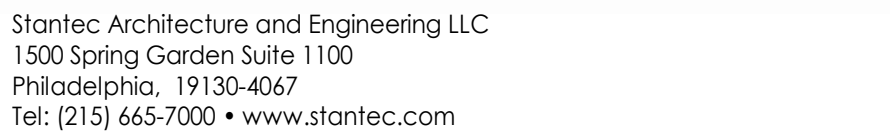
177902965

cale

$$12'' = 1'-0''$$

Drawing No.

# T-002



Consultant

## Notes

[illegible]

Permit/Seal

Client/Project Logo

Client/Project  
Temple University Hospital

TUHS ICU Renovation

3401 N Broad St, Philadelphia, PA 19140

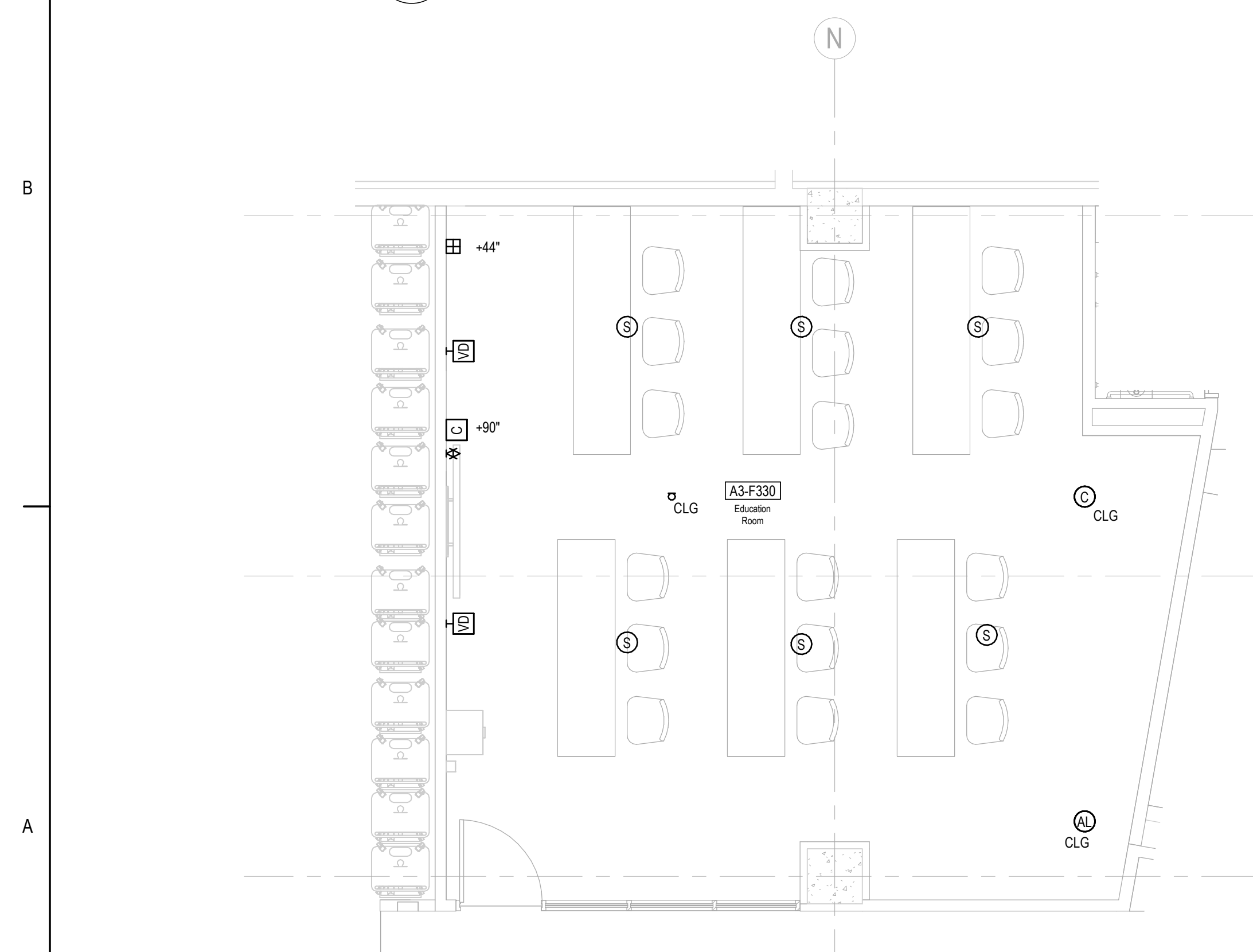
title  
BASEMENT FLOOR  
TELECOMMUNICATION PLAN

Project No.	Scale
177902965	1/16" = 1'-0"
Revision	Drawing No.

**T-300**



**1 TECHNOLOGY PLAN - LEVEL 3 - ICU**  
1/8" = 1'-0"



**2 ENLARGED EDUCATION ROOM A3-F330**  
1/4" = 1'-0"



**3 ENLARGED TELE/DATA ROOM A3-F322**  
1/4" = 1'-0"



**4 ENLARGED CEILING TELE/DATA ROOM A3-F322**  
1/4" = 1'-0"



**5 ENLARGED MULTIPURPOSE ROOM A3-F323**  
1/4" = 1'-0"



ISSUED FOR BID	2023.06.25
ISSUED FOR DOH REVIEW	2023.06.13
95% CD	2024.12.20
50% CD	2024.11.15
DOH PRELIMINARY REVIEW	2024.10.18
DESIGN DEVELOPMENT/PRICING	2023.07.31

Issued/Revision	By	App'd	YYYYMMDD
File Name: N/A	Author:	Designer:	Checker:
	Dwn:	Dgn:	Cks:

Permit/Seal

Client/Project Logo

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Temple University Hospital

TUHS ICU Renovation

3401 N Broad St, Philadelphia, PA 19140

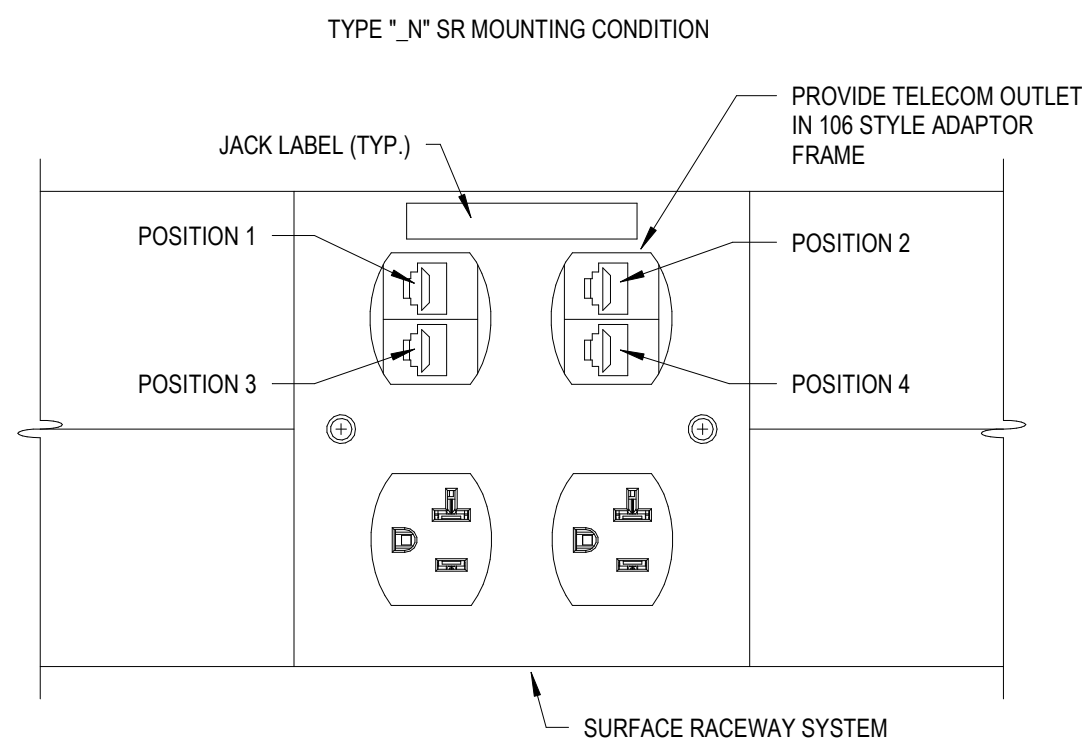
Title  
THIRD FLOOR TECHNOLOGY PLAN

Project No.  
177902965  
Revision

Scale  
As Indicated  
Drawing No.

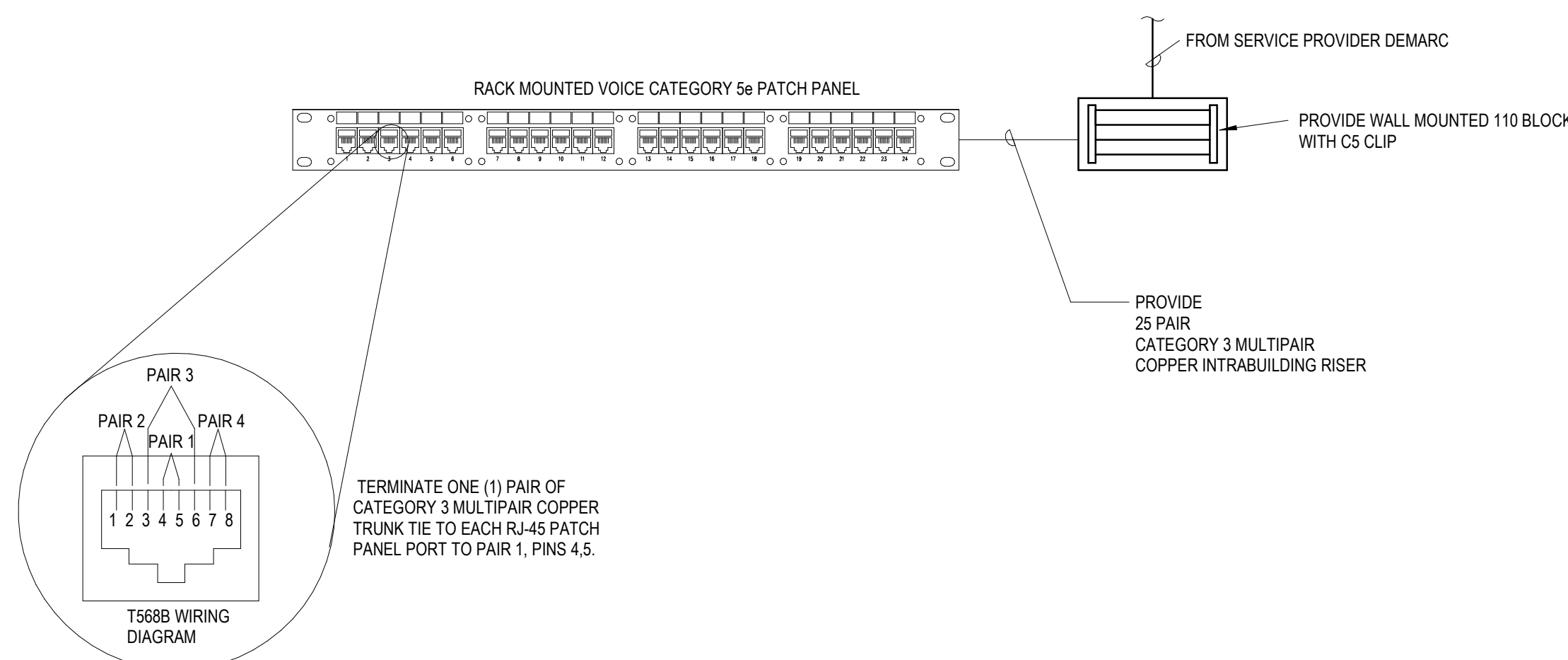
**T-303**





## SURFACE RACEWAY (SR MOUNTING CONDITIONS) TELECOM OUTLET DETAIL

1  
T-501 N.T.S.

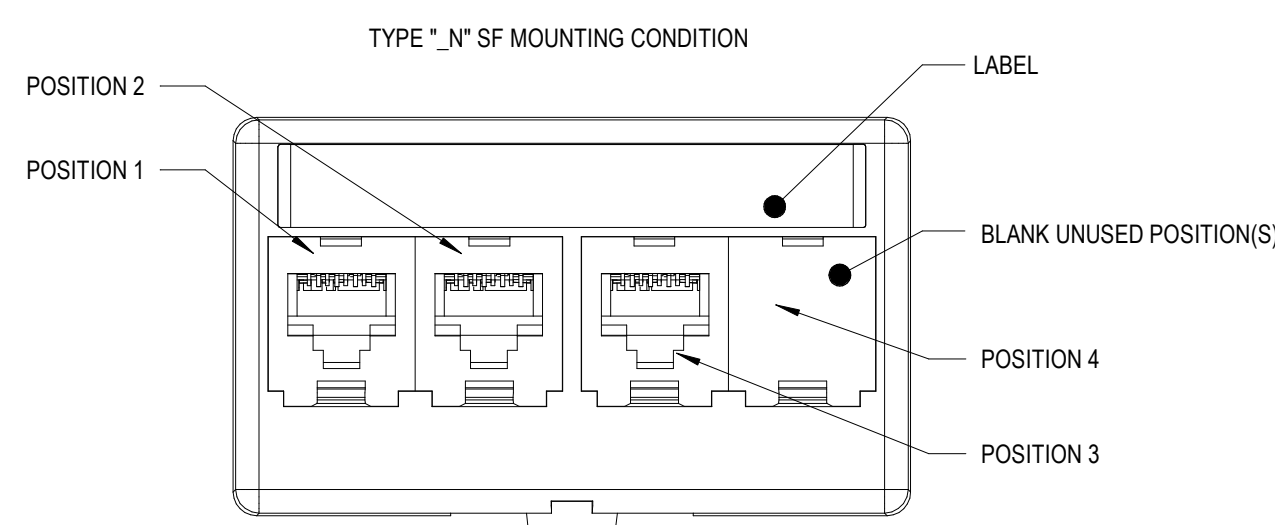


## VOICE BACKBONE PATCH PANEL DETAIL

2  
T-501 N.T.S.

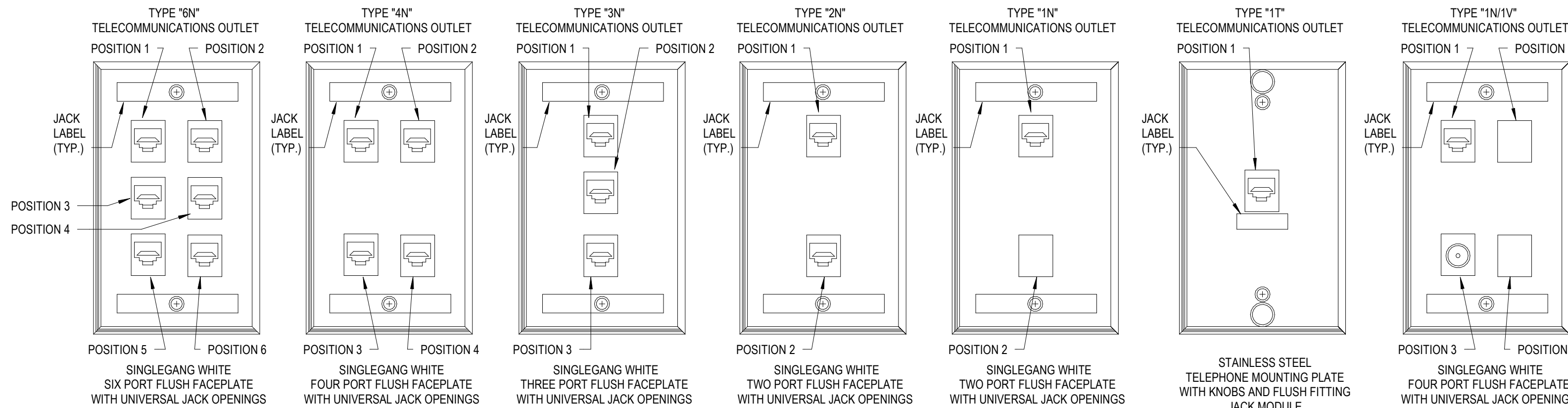
## BUILDING SYSTEMS TELECOM OUTLET DETAIL (EP EQUIPMENT PANEL MOUNTING CONDITION)

3  
T-501 N.T.S.



## SYSTEMS FURNITURE TELECOM OUTLET DETAIL (SF MOUNTING CONDITION)

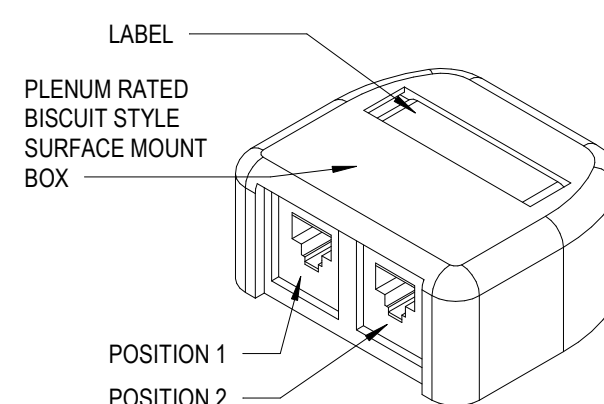
4  
T-501 N.T.S.



## WALL MOUNTED TELECOMMUNICATIONS OUTLET FACEPLATE ELEVATIONS

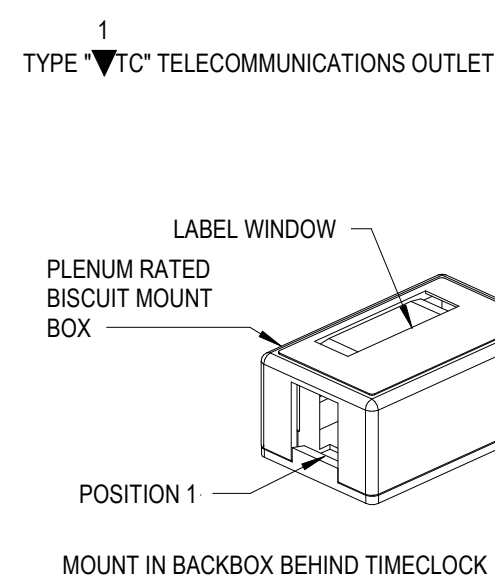
5  
T-501 N.T.S.

TYPE "WAP" TELECOMMUNICATIONS OUTLET



## WIRELESS ACCESS POINT TELECOM OUTLET DETAIL

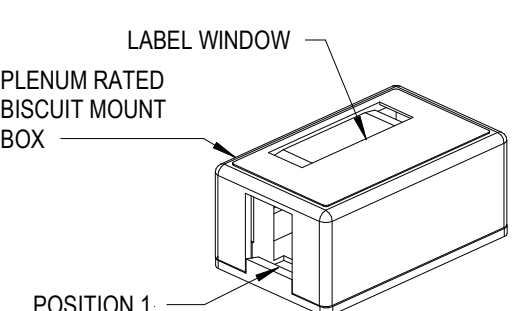
6  
T-501 N.T.S.



## TIMECLOCK TELECOM OUTLET DETAIL

7  
T-501 N.T.S.

TYPE "WSC" TELECOMMUNICATIONS OUTLET



## SECURITY CAMERA OUTLET DETAIL

8  
T-501 N.T.S.

TELECOMMUNICATIONS OUTLET TYPE AND SYMBOL		TYPE "6N" OUTLET	TYPE "4N" OUTLET	TYPE "3N" OUTLET	TYPE "2N" OUTLET	TYPE "1N" OUTLET	TYPE "1W" OUTLET	TYPE "1SC" OUTLET	TYPE "1N/1V" OUTLET	TYPE "1T" OUTLET	TYPE "1TC" OUTLET
POSITION 1	CABLE TYPE	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 24 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A
	TERMINATION	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE
	EXTERIOR CABLE JACKET COLOR	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE
	JACK MODULE COLOR	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	NA	BLUE	BLUE	BLUE
POSITION 2	CABLE TYPE	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 24 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	NONE			NONE		
	TERMINATION	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	SPACE WITH BLANK MODULE			SPACE WITH BLANK MODULE		
	EXTERIOR CABLE JACKET COLOR	BLUE	BLUE	BLUE	BLUE	NA			NA		
	JACK MODULE COLOR	BLUE	BLUE	BLUE	BLUE	WHITE BLANK MODULE			WHITE BLANK MODULE		
POSITION 3	CABLE TYPE	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 24 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A				18 AWG COPPER COVERED STEEL CENTER CONDUCTOR COAX CATV RG-6		
	TERMINATION	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE				F-TYPE COMPRESSION CABLE CONNECTOR WITH FEMALE SPRUE BARREL		
	EXTERIOR CABLE JACKET COLOR	BLUE	BLUE	BLUE	BLUE				WHITE		
	JACK MODULE COLOR	BLUE	BLUE	BLUE	BLUE				WHITE BEZEL COLOR		
POSITION 4	CABLE TYPE	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A						NONE		
	TERMINATION	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE						SPACE WITH BLANK MODULE		
	EXTERIOR CABLE JACKET COLOR	BLUE	BLUE						NA		
	JACK MODULE COLOR	BLUE	BLUE						WHITE BLANK MODULE		
POSITION 5	CABLE TYPE	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A									
	TERMINATION	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE									
	EXTERIOR CABLE JACKET COLOR	BLUE									
	JACK MODULE COLOR	BLUE									
POSITION 6	CABLE TYPE	4 PAIR SOLID CONDUCTOR 23 AWG, 100 OHM UTP, CMP CATEGORY 6A									
	TERMINATION	CATEGORY 6A RJ-45 8 POSITION, 8 WIRE T568B TERMINATION MODULE									
	EXTERIOR CABLE JACKET COLOR	BLUE									
	JACK MODULE COLOR	BLUE									

## TELECOMMUNICATIONS OUTLET SCHEDULE

9  
T-501 N.T.S.

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## Notes



NOTE: CABLE SUPPORT ASSEMBLY SHALL BE PROVIDED ABOVE ALL CORRIDOR LAY-IN CEILINGS TO SUPPORT CABLEING FROM OUTLET CONDUIT STUB.  
CONTRACTOR SHALL HAVE OPTION OF PROVIDING EITHER OF THE ABOVE ASSEMBLIES WHERE REQUIRED. TOTAL NUMBER OF J-HOOKS (OPEN TOP CABLE SUPPORTS) SHALL BE EQUAL QUANTITY AS RECOMMENDED BY MANUFACTURER BASED ON NUMBER OF CABLES INSTALLED PLUS 50% SPARE CAPACITY. DIFFERENT CABLE TYPES SHALL BE SUPPORTED BY SEPARATE J-HOOKS. J-HOOKS SPACING SHALL BE 4'-5" INTERVALS.

[illegible]

Issued/Revision	By	Appd	YYYY.MM.DD
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File Name: N/A	Author	Designer	Checker	05/24/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

Client/Project  
Temple University Hospital

TUHS ICU Renovation

3401 N Broad St, Philadelphia, PA 19140

# TELECOMMUNICATION INFRASTRUCTURE DETAILS

Project No.	Scale
177902965	As indicated
Revision	Drawing No.

# T-502

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## Notes



## 3 AUDIOVISUAL BACKBOX SCHEDULE



ISSUED FOR BID				2025.06.25
ISSUED FOR CDH REVIEW				2025.06.13
90% CD				2024.12.20
50% CD				2024.11.15
CDH PRELIMINARY REVIEW				2024.10.16
DESIGN DEVELOPMENT/PRICING				2023.07.31
<b>Issued/Revision</b>		By	App'd	YYYY.MM.DD
File Name: N/A	Author: Dwn.	Designer: Dign.	Checker: Chk.	03/24/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

Client/Project  
Temple University Hospital

TUHS ICU Renovation

3401 N Broad St, Philadelphia, PA 19140

Title  
AUDIOVISUAL INFRASTRUCTURE  
DETAILS

Project No.  
177902965  
Revision

Scale  
As indicated

Drawing No.

**T-503**





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## Notes



**NOTE:**  
PROVIDE TELECOMMUNICATIONS GROUNDING ACCORDING TO TIA-607-D GENERIC TELECOMMUNICATIONS  
BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES.

[illegible]

Issued/Revision	By	Appd	YYY.MM.DD
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Permit/Sea

Client/Project  
Temple University Hospital

TUHS ICU Renovation

3401 N Broad St, Philadelphia, PA 19140

## TECHNOLOGY RISER DIAGRAMS

# T-601