

TECHNOLOGY SYSTEMS FOR POLICE/MUNICIPAL OFFICE BUILDING CITY OF LEON VALLEY TEXAS

**RENOVATION OF POLICE/ MUNICIPAL
 OFFICE**
CITY OF LEON VALLEY
6400 EL VERDE ROAD, LEON VALLEY, TEXAS. 78238

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STRUCTURED CABLING LEGEND	
#	NUMBER OF CAT 6 VOICE/DATA CABLES/JACKS
	TELECOMMUNICATIONS OUTLET
#	NUMBER OF CAT 6 VOICE/DATA CABLES/JACKS
	TELECOMMUNICATIONS OUTLET INSTALLED IN RACEWAY
	WALL MOUNT PHONE (ONE CAT 6 JACK/CABLE)
#	FLOOR MOUNTED OUTLET (FLOOR BOX BY ELECTRICAL CONTRACTOR)
#	CEILING MOUNTED DATA OUTLET
	CEILING MOUNTED OUTLET FOR WIRELESS AP (1 CAT 6 CABLE)
	JUNCTION BOX (16"x16"x6" UNLESS OTHERWISE NOTED)
	CABLING SLEEVE (1-1/4" UNLESS NOTED OTHERWISE)
	STANDARD IP DOME SURVEILLANCE CAMERA, (1) CATEGORY 6 CABLE

MULTIMEDIA AUDIO/VISUAL LEGEND	
	VOLUME CONTROL LOCATION
	PUSH-TO-TALK LOCATION
	AUDIO/VISUAL ROUGH-IN LOCATION
	AV WALL CABINET
	MULTIMEDIA PROJECTOR
	MULTIMEDIA FLAT PANEL DISPLAY
	LOUD SPEAKER, CEILING MOUNTED
	LOUD SPEAKER, WALL MOUNTED
#+V	NUMBER OF CAT 6 VOICE/DATA CABLES/JACKS + VIDEO
	TELECOMMUNICATIONS OUTLET
	HD COLOR PTZ CAMERA
	DOCUMENT CAMERA
	CLOCK AND TIMER LOCATION

- GENERAL NOTES**
- ALL CABLES SHALL BE CONCEALED.
 - ALL CONDUIT MEASUREMENTS REFER TO STANDARD CONDUIT TRADE SIZES.
 - NOT ALL KEYNOTES MAY BE UTILIZED ON EVERY SHEET.
 - THE SCOPE OF WORK DESCRIBED IN THESE TECHNOLOGY DRAWING SHEETS ARE FOR THE ROUGH-IN ONLY AND INCLUDE THE OUTLET BOXES AND CONDUIT WITH PULL STRING FOR THE STRUCTURED CABLING, PREMISE SECURITY AND MULTIMEDIA AUDIO/VISUAL DEVICES THAT WILL BE INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT.
 - EACH CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SLEEVES, WHETHER OR NOT SPECIFICALLY NOTED ON PROJECT DRAWINGS. ALL SLEEVES SHALL BE 1-1/4" UNLESS NOTED OTHERWISE ON THE DRAWINGS. CABLE FILL PERCENTAGE SHALL NOT EXCEED 40%.
 - EVERYTHING SHOWN ON THE DRAWINGS SHALL BE PROVIDED AND INSTALLED BY THE APPROPRIATE CONTRACTOR UNLESS NOTED OTHERWISE. ALL CONDUIT, BACKBOXES, JUNCTION BOXES, FLOOR BOXES AND IN-WALL BOXES SHALL BE PROVIDED BY EC UNLESS NOTED OTHERWISE.
 - DEVICE LOCATION: CONTRACTOR SHALL COORDINATE ALL AV/MULTIMEDIA DEVICE LOCATIONS WITH OWNER AND CONSULTANT DURING PRECONSTRUCTION PHASE. LOCATIONS SHOWN HEREIN ARE APPROXIMATE AND AVC SHALL DETAIL LOCATIONS IN PRECONSTRUCTION SUBMITTAL PLANS FOR CONSULTANT APPROVAL. CONTRACTOR SHALL NOT PROCEED WITHOUT WRITTEN APPROVAL OF SUBMITTED DRAWINGS.
 - ALL ELECTRICAL POWER WIRING FOR AUDIO/VISUAL CIRCUITS SHALL DEDICATED FOR AUDIO/VISUAL USE, SHALL BE ON THE SAME PHASE, AND SHALL NOT BE SHARED WITH OTHER BUILDING EQUIPMENT, INCLUDING BUT NOT LIMITED TO LIGHTING, HVAC, MECHANICAL, ETC.
 - AT EACH DOOR WITH CARD READER, THE PREMISE SECURITY CONTRACTOR (PSC) SHALL PROVIDE AND INSTALL A DPDT DOOR POSITION SWITCH (CONNECTED TO BOTH THE ACCESS CONTROL SYSTEM AND THE INTRUSION DETECTION SYSTEM), CARD READERS, AND PROVIDE AND INSTALL ALL NECESSARY LOW-VOLTAGE WIRING FROM ELECTRONIC LOCKING HARDWARE (ELECTRIC STRIKE, POWERED CRASHBAR OR ELECTRIC TRIM/HINGE) TO POWER SUPPLIES. OTHERS WILL PROVIDE LOCKING HARDWARE. REQUEST TO EXIT DEVICE SHALL BE INTEGRAL TO THE DOOR HARDWARE

GENERAL SYMBOLS LEGEND	
	DETAIL NUMBER
	SHEET NUMBER
	DETAIL NOTATIONS
	NORTH ARROW
#	KEYNOTES
MER	MAIN EQUIPMENT ROOM
TR	TELECOMMUNICATIONS ROOM
ETR	EXISTING TO REMAIN
PBO	PROVIDED BY OTHERS
AFF	ABOVE FINISHED FLOOR
AC	ABOVE COUNTER
EC	DIVISION 26 ELECTRICAL CONTRACTOR
PSC	PREMISE SECURITY CONTRACTOR
SCC	STRUCTURAL CABLING CONTRACTOR
AVC	AV/MULTIMEDIA CONTRACTOR
UNO	UNLESS NOTED OTHERWISE

PREMISE SECURITY LEGEND	
	CARD READER
	MASTER INTERCOM CONTROL STATION
	INTERCOM
	DOOR RELEASE
	DOOR CONTACT
	ELECTRIFIED LATCH
	ELECTRIFIED STRIKE
	STANDARD IP DOME SURVEILLANCE CAMERA, (1) CATEGORY 6 CABLE

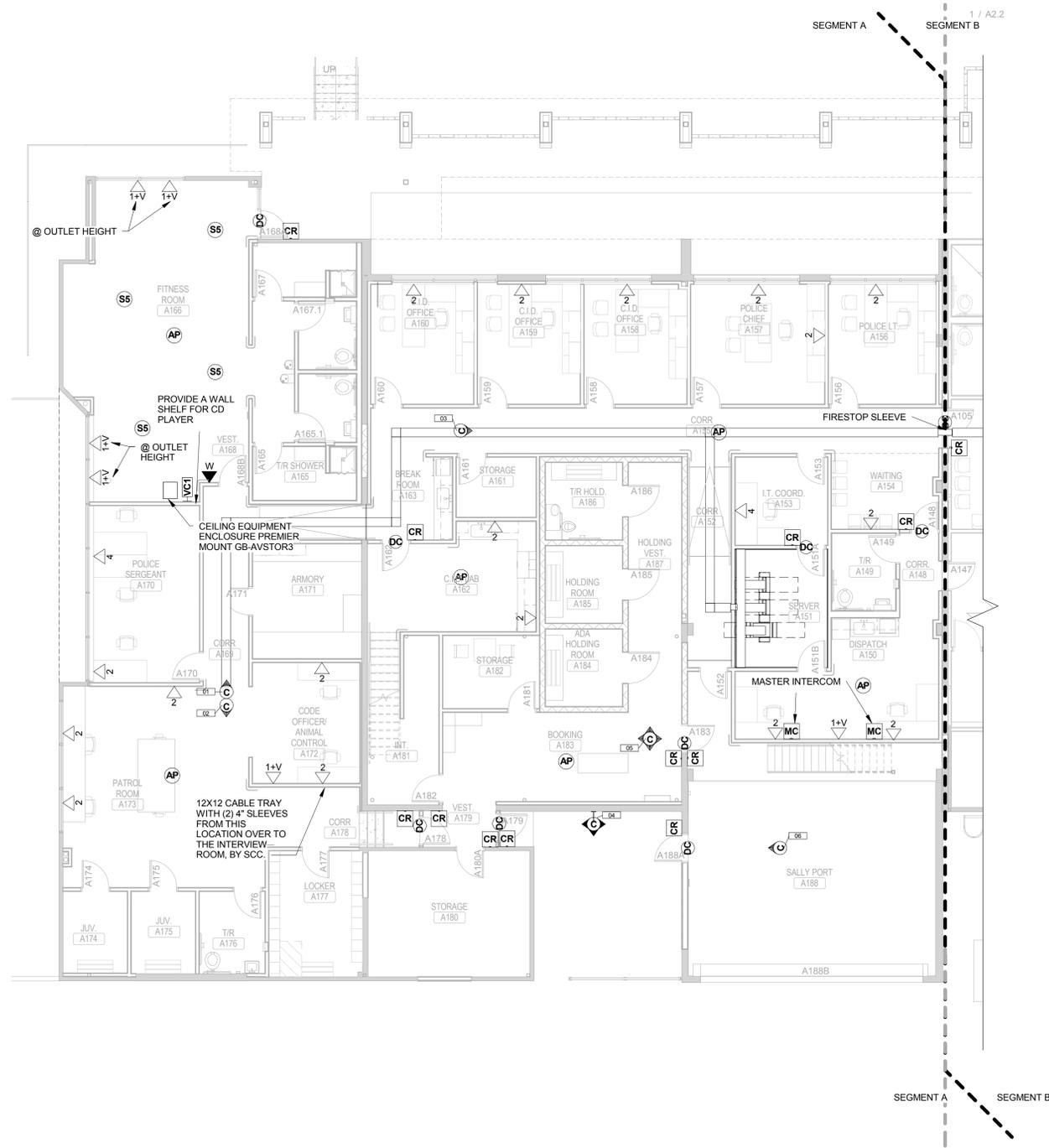
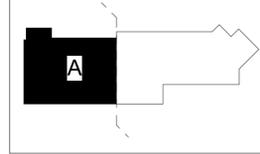
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Project No.:	12018
Checked By:	Checker
Designed By:	Designer
Drawn By:	Author
Scale:	1/2" = 1'-0"
Date:	03.19.2014

TECHNOLOGY -
INDEX SHEET

T0.0

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SEGMENT KEY PLAN



1 TECHNOLOGY - FLOOR PLAN - SEGMENT A
 SCALE: 1/8" = 1'-0"

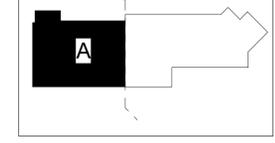
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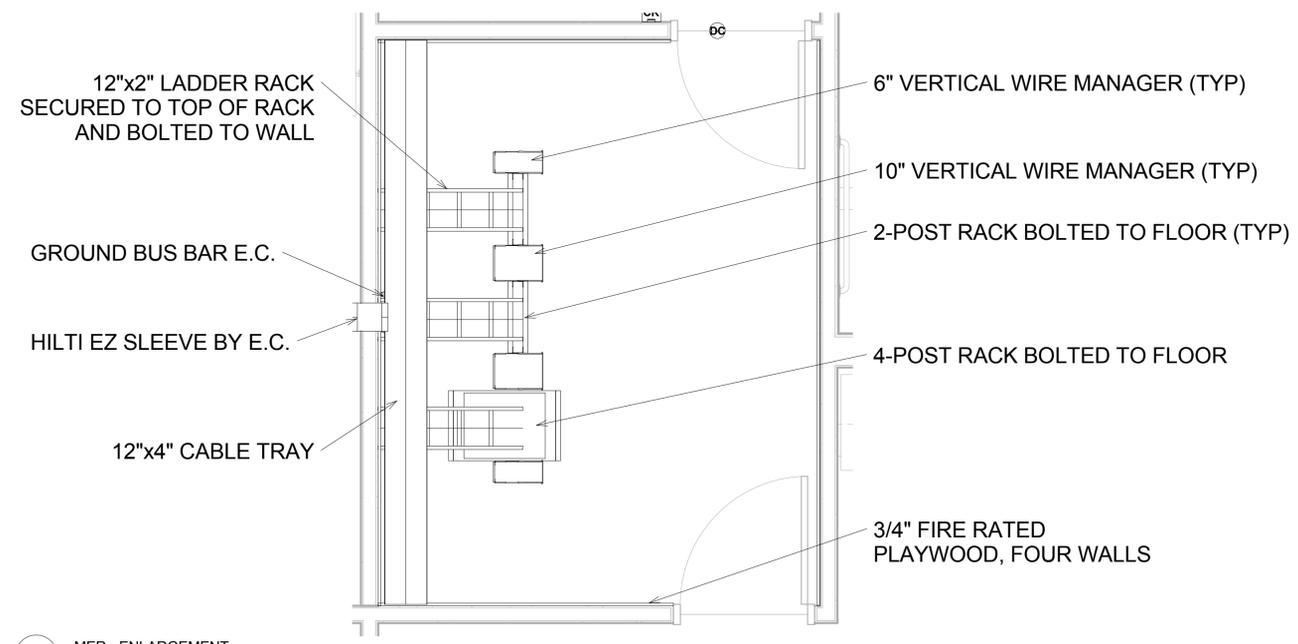
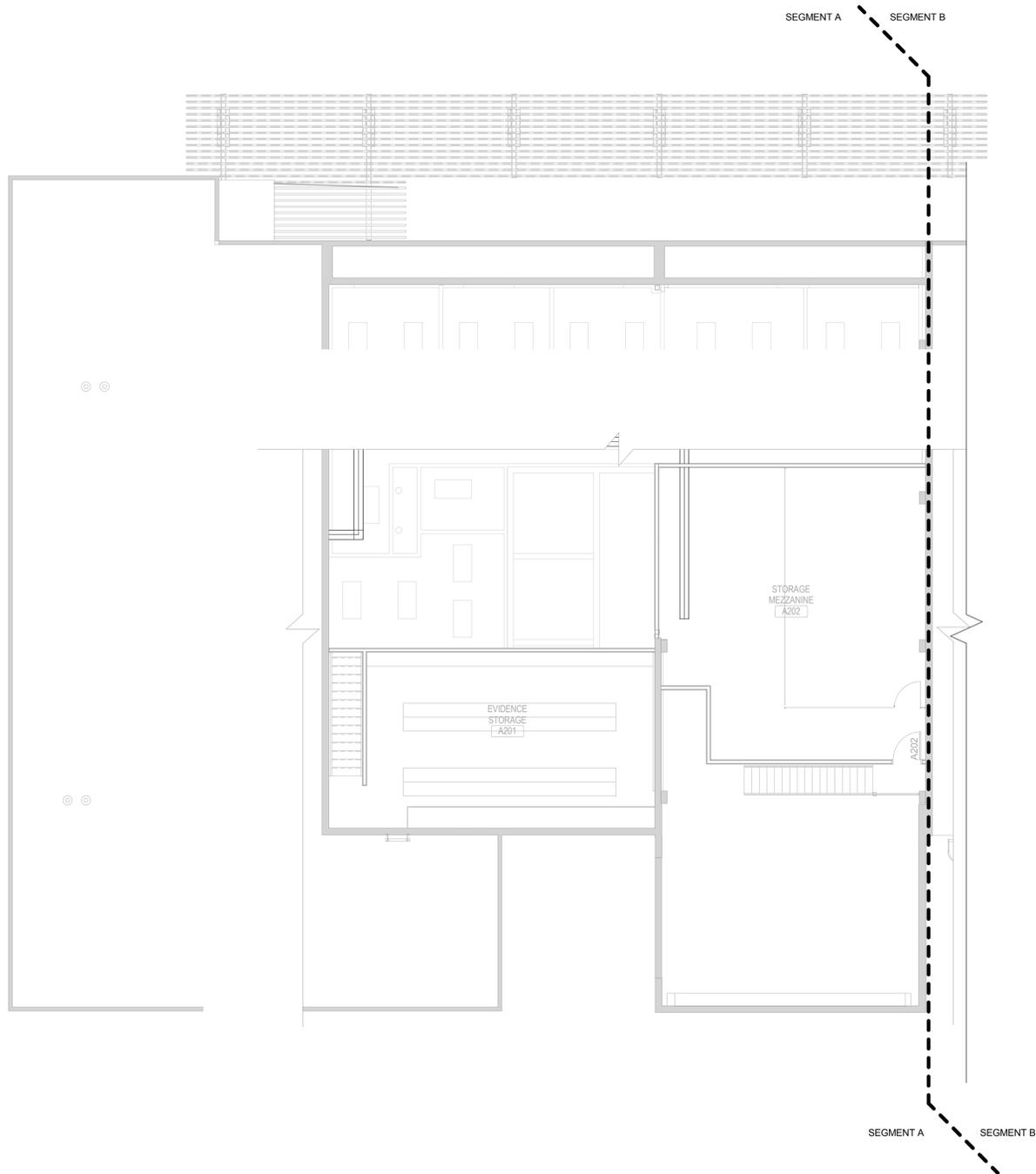
TECHNOLOGY -
 FLOOR PLAN -
 SEGMENT A

T1.2

SEGMENT KEY PLAN



**RENOVATION OF POLICE/ MUNICIPAL
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1 TECHNOLOGY - FLOOR PLAN - MEZZANINE (NO WORK - FOR REFERENCE ONLY)
 SCALE: 1/8" = 1'-0"

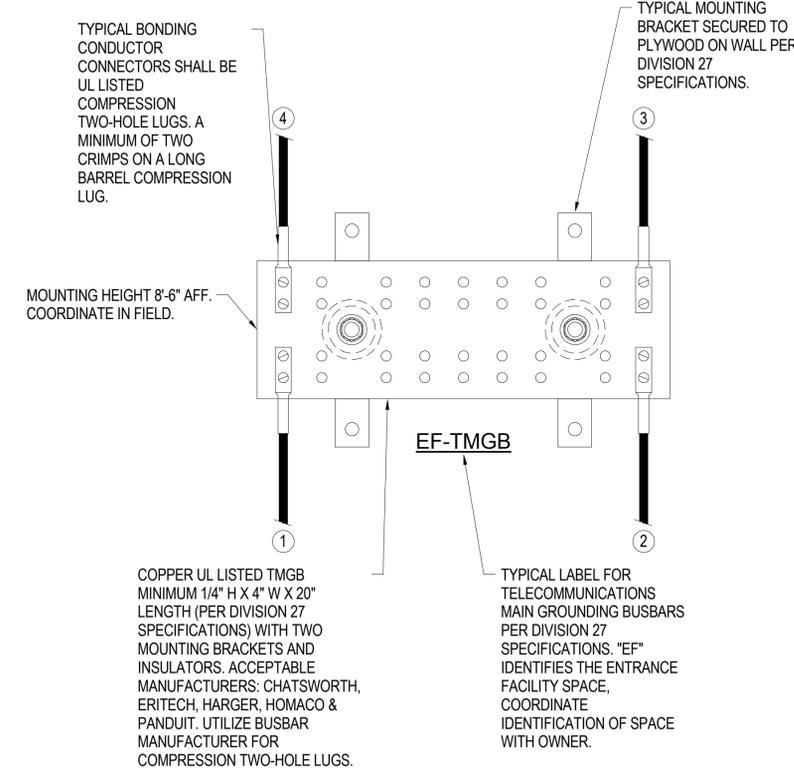
2 MER - ENLARGEMENT
 SCALE: 1/2" = 1'-0"

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TECHNOLOGY -
 FLOOR PLAN -
 MEZZANINE

T1.4

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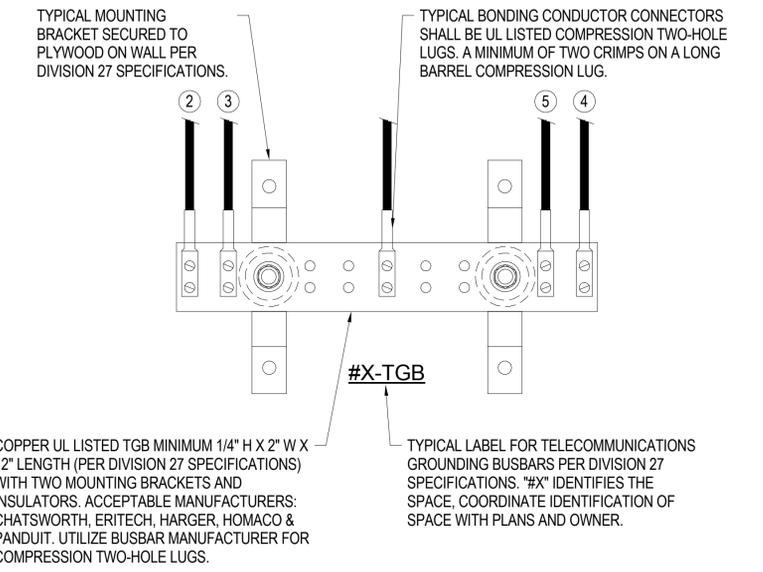


BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	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
GREATER THAN (>) 66'	# 3/0

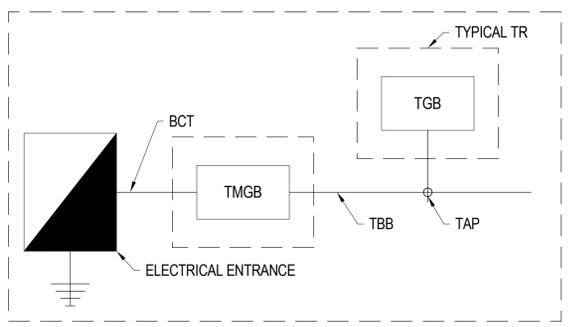
GROUNDING & BONDING GENERAL NOTES

1. ALL TELECOM GROUNDING WORK SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. REFER TO GROUNDING AND BONDING DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-B) IN PATHWAY.
3. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
4. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSITIA/EIA-606-B.
5. BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-B) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. DIVISION 27 CONTRACTOR SHALL PERFORM CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
 - A. THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
 - B. THE TGB AND THE NEAREST GROUNDING ELECTRODE.
 - C. EACH TGB AND THE PATHWAY(S), RACK(S), CABINETS(S) AND APPLICABLE EQUIPMENT.



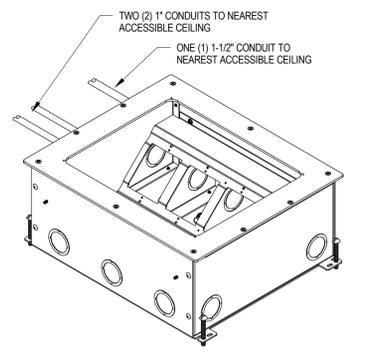
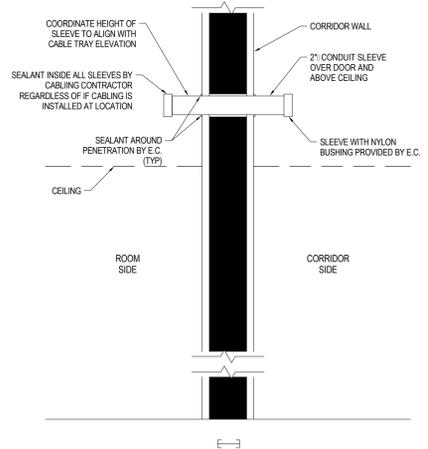
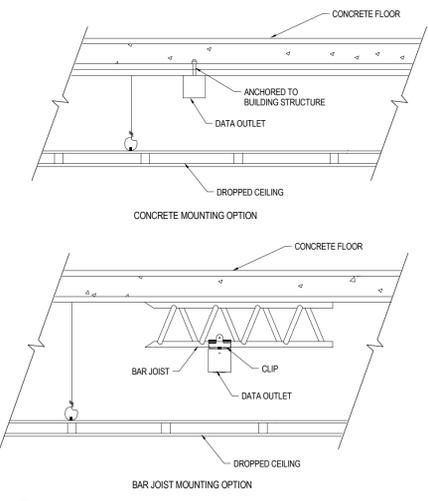
GROUNDING & BONDING RISER DETAIL NOTES

- 1 BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING GROUNDING ELECTRODE. BCT SHALL NOT BE SMALLER THEN THE TBB.
- 2 BCT TO NEAREST BUILDING STEEL STRUCTURE. IF APPLICABLE UTILIZED EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
- 3 TELECOMMUNICATIONS BONDING BACKBONE (TBB) FOR GROUNDING EQUALIZER (GE), IF APPLICABLE.
- 4 TYPICAL TBB(S) THAT INTERCONNECTS ALL TGB(S) WITH THE TMGB.
- 5 BCT TO TELECOMMUNICATIONS CABLE RUNWAYS(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY RACKS IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUG TAP TO DEDICATED HOMERUN ACT BACK TO THE TGB. SEE DETAILS.



1 GROUNDING AND BONDING DETAIL
 SCALE: NS

2 TYPICAL GROUNDING FLOW DIAGRAM
 SCALE: NS

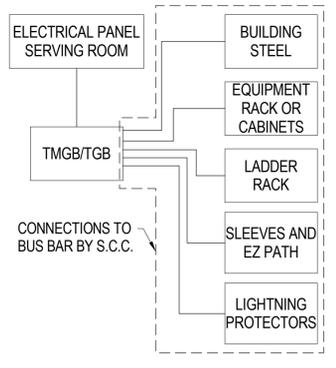


NOTES:
 COORDINATE FLOOR BOX LID OPTION TO MATCH FLOORING TYPE.
 FLOOR BOXES AND ELECTRICAL SERVICE PROVIDED BY E.C.
 DATA CONTRACTOR TO PROVIDE DATA PLATE.
 CONDUITS TO FLOOR BOX SHALL NOT BE CAST IN THE SLAB.

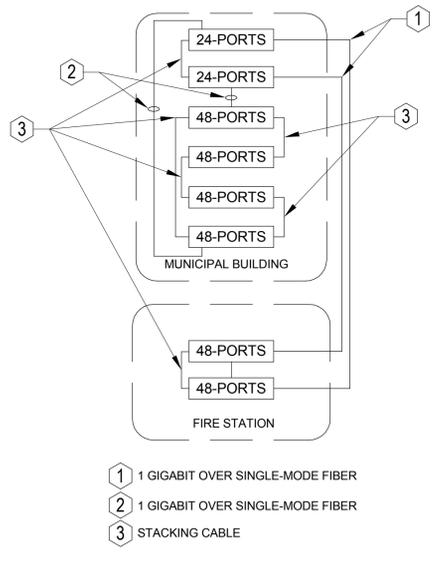
3 ABOVE CEILING TERMINATION DETAIL
 SCALE: NS

4 TYPICAL CABLING SLEEVE
 SCALE: NTS

5 RECESSED FLOOR BOX WIREMOLD RFB11-0G
 SCALE: NS



6 TELECOM ROOM BONDING DIAGRAM
 SCALE: NS



7 LAN DIAGRAM
 SCALE: NS

Revision: _____ Date: _____

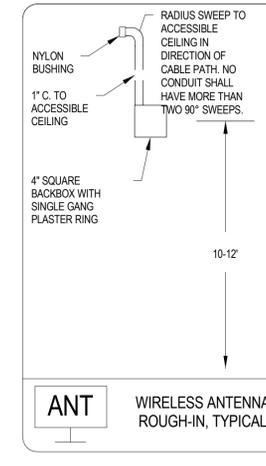
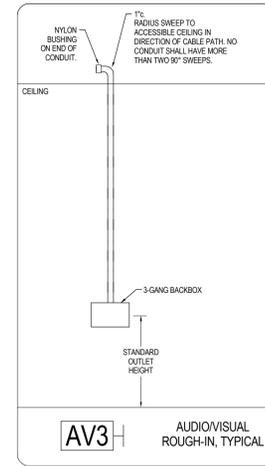
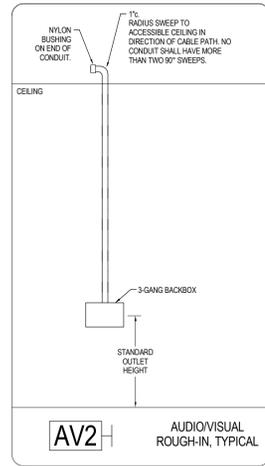
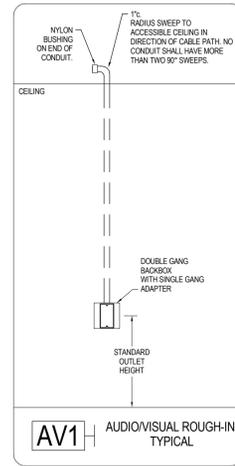
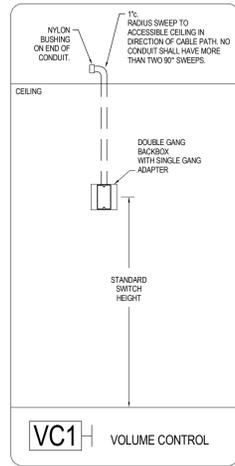
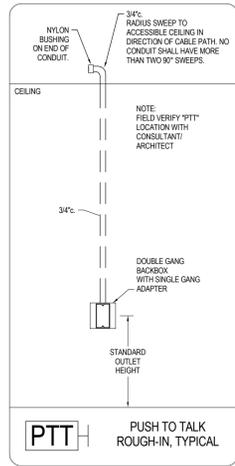
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 Drawn By: _____ Author
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**TECHNOLOGY -
 DETAILS**

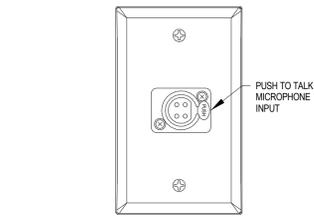
T5.1

RENOVATION OF POLICE/ MUNICIPAL
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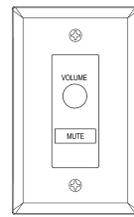
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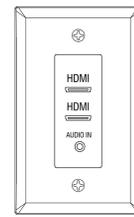
ELECTRICAL ROUGH-IN PROVIDED BY THE ELECTRICAL CONTRACTOR ABOVE
 AUDIO/VIDEO DEVICES AND PLATES BELOW SHALL BE PROVIDED BY THE AV-TECHNOLOGY CONTRACTOR BY OTHERS UNDER SEPARATE CONTRACT



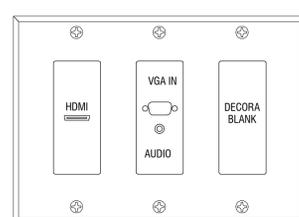
1 PUSH TO TALK MICROPHONE AND INTERCOM PLATE
 SCALE: NTS



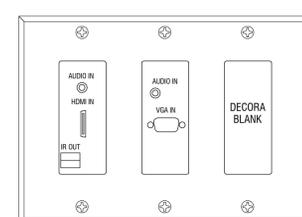
2 VC1 PLATE
 SCALE: NTS



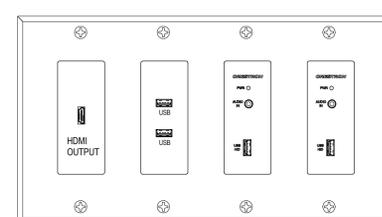
3 AV1 PLATE
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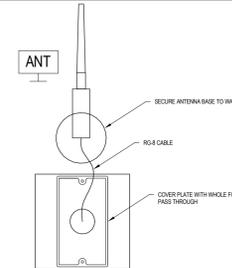
4 AV2 PLATE
 SCALE: NTS



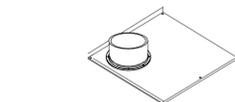
5 AV3 PLATE
 SCALE: NTS



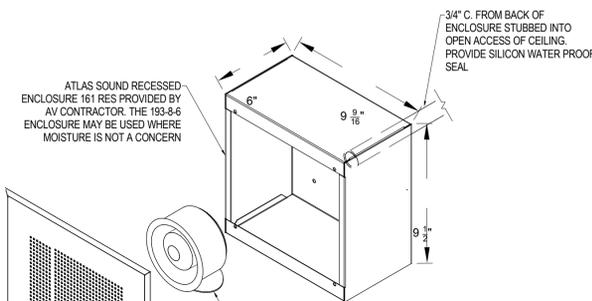
6 AV4 PLATE I/O AT DIAS AND STAFF TABLE
 SCALE: NTS



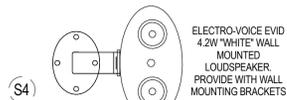
7 WIRELESS ANTENNA PLATE AND CONNECTION
 SCALE: NTS



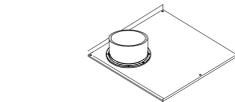
S1 AMK SQ-801-TD/15 DROP CEILING LOUDSPEAKER
 OR
 LOWELL LT2-830-72-88 DROP CEILING LOUDSPEAKER
 8 "S1\"/>



S3 ATLAS SOUND RECESSED ENCLOSURE 161 RES PROVIDED BY AV CONTRACTOR. THE 193-8-6 ENCLOSURE MAY BE USED WHERE MOISTURE IS NOT A CONCERN
 10 "S3\"/>



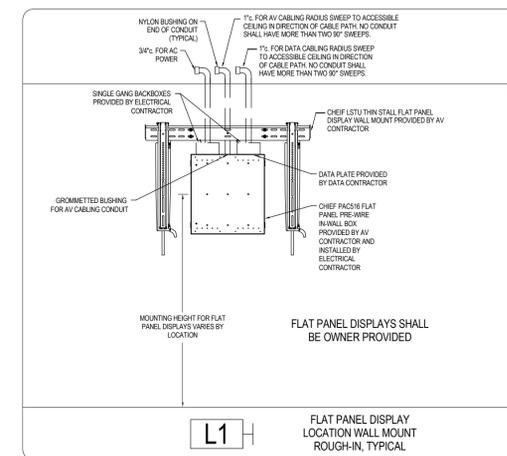
S4 ELECTRO-VOICE EVID 4.2W "WHITE" WALL MOUNTED LOUDSPEAKER. PROVIDE WITH WALL MOUNTING BRACKETS
 11 "S4\"/>



S2 AMK SQ-802-NT DROP CEILING LOUDSPEAKER
 9 "S2\"/>



S5 AMK SA-802 LOUDSPEAKER WITH TRANSFORMER
 12 "S5\"/>



L1 FLAT PANEL DISPLAY LOCATION WALL MOUNT ROUGH-IN, TYPICAL

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TECHNOLOGY -
 DETAILS

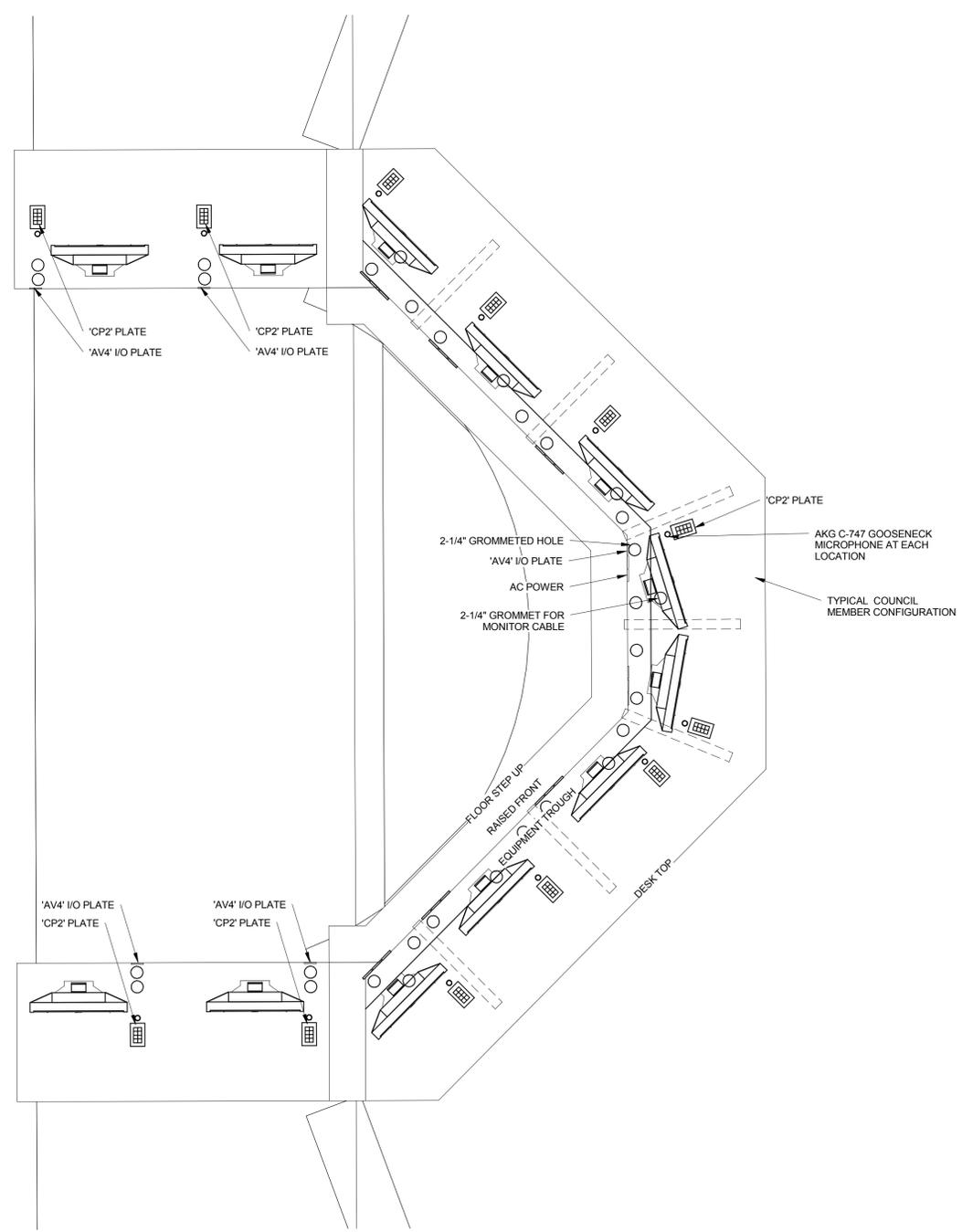
T5.4

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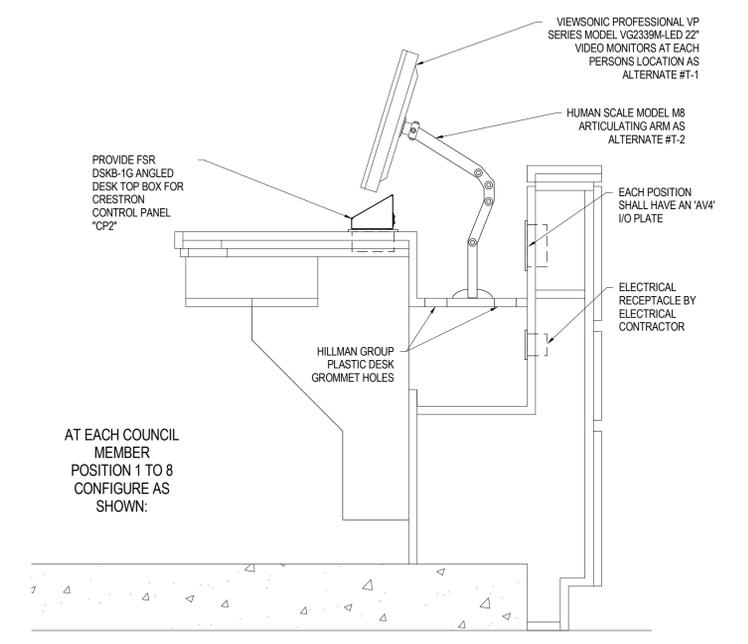
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Project No.:	12018
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Designed By:	JCIDG
Drawn By:	AD
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**TECHNOLOGY -
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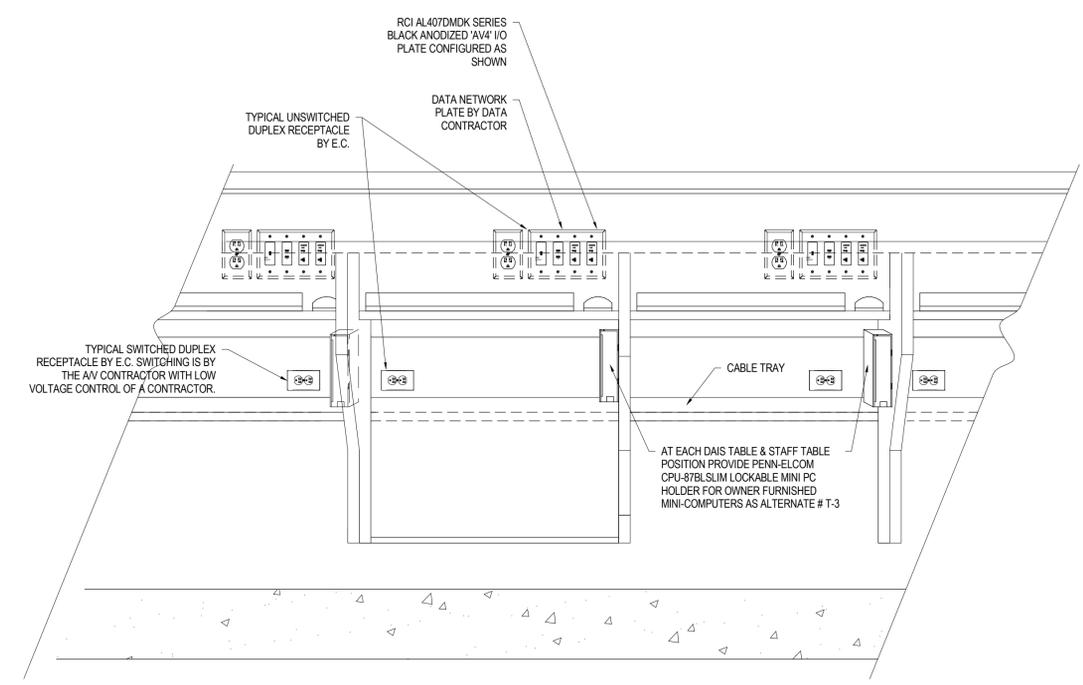
T5.5



1 COUNCIL CHAMBER DIAS LAYOUT
 SCALE: 3/4" = 1'-0"

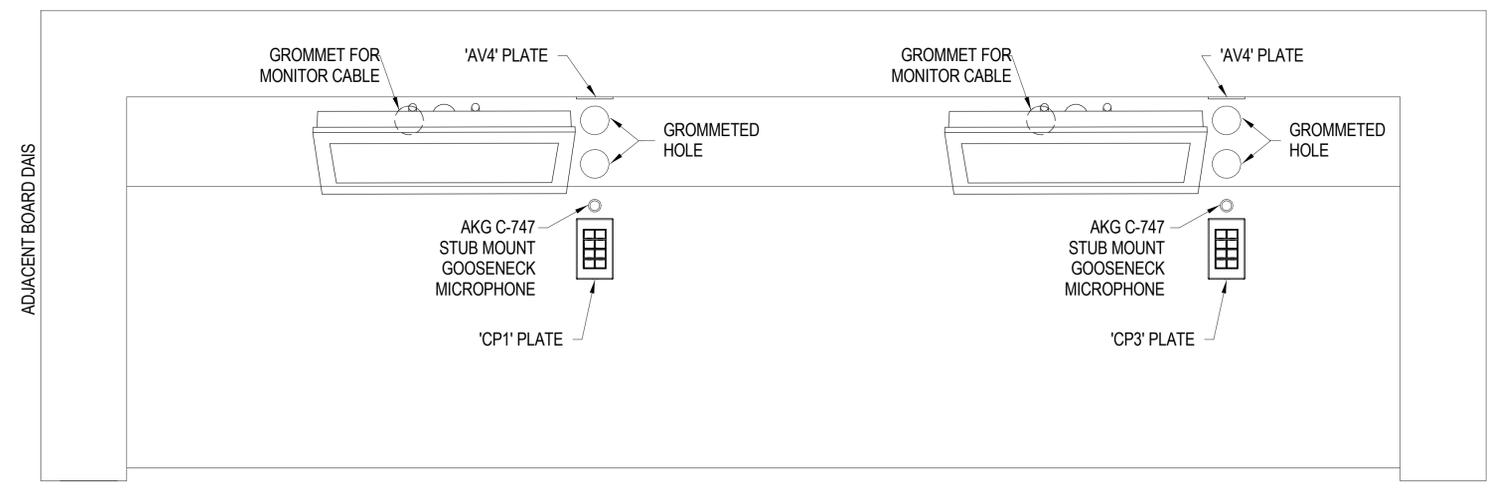


2 DAIS TABLE LAYOUT CROSS SECTION
 SCALE: NS

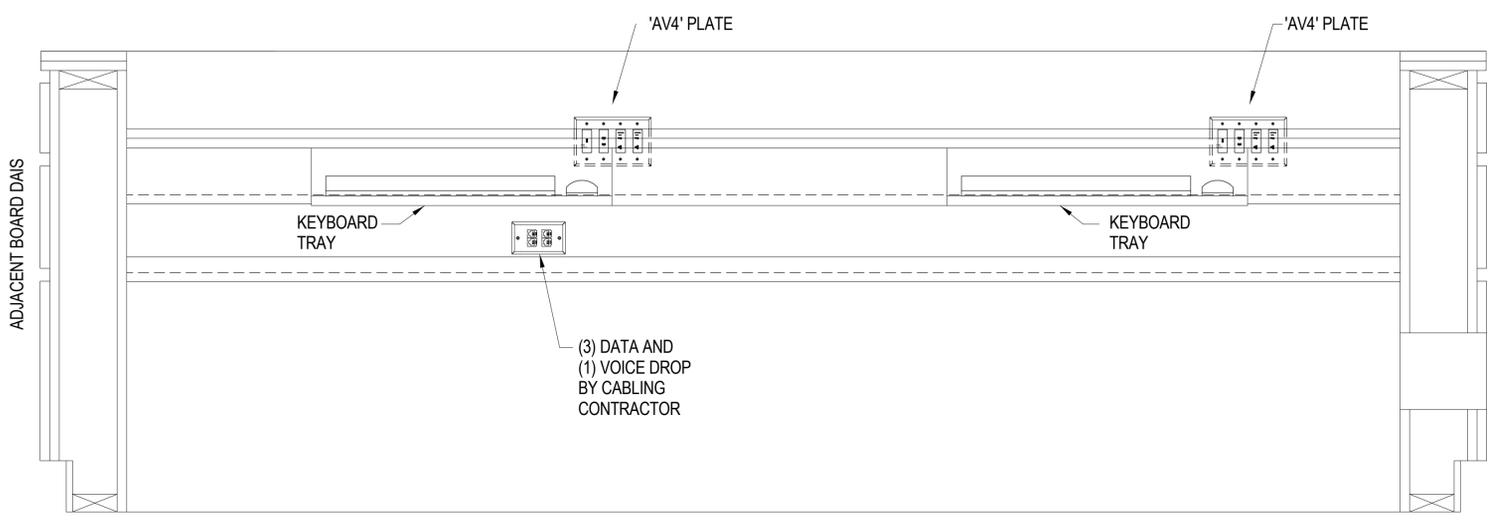


3 DAIS TABLE LAYOUT ELEVATION
 SCALE: NS

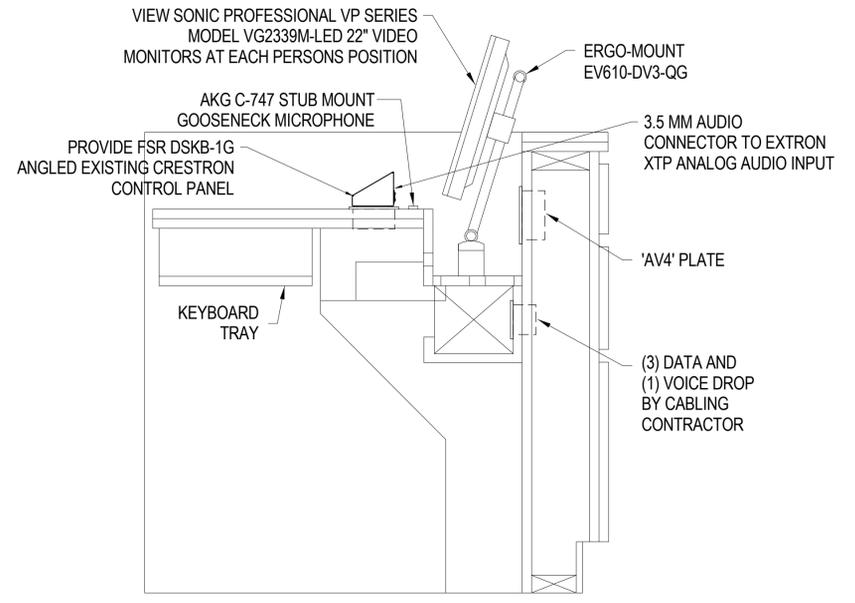
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RIGHT SIDE STAFF TABLE (CLOSEST TO THE OUTSIDE WALL)



RIGHT SIDE STAFF TABLE (CLOSEST TO THE OUTSIDE WALL)

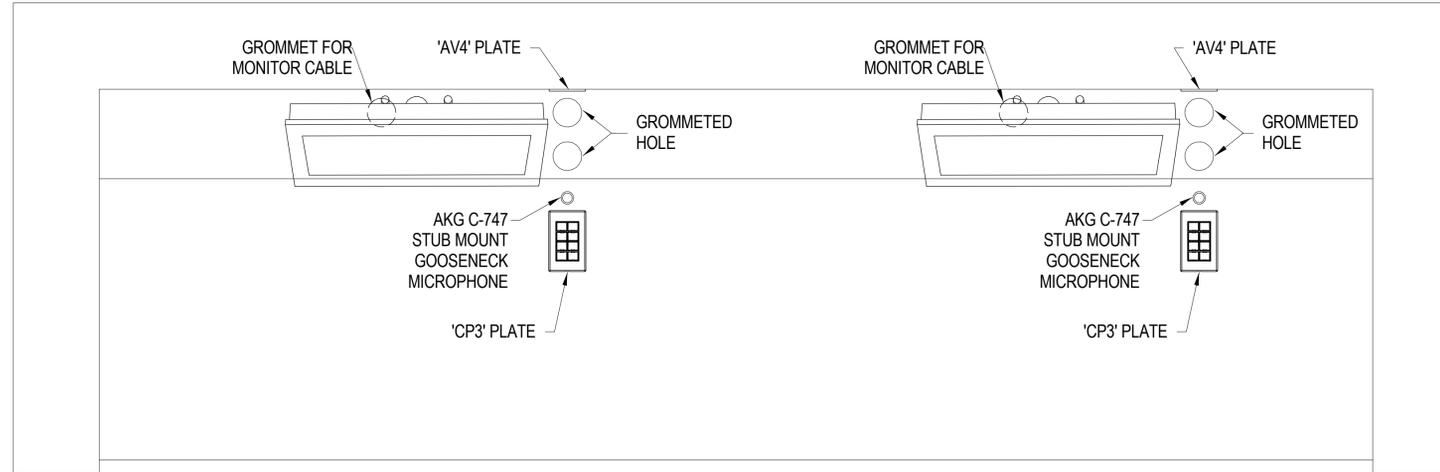


SIDE TABLE LAYOUT CROSS SECTION

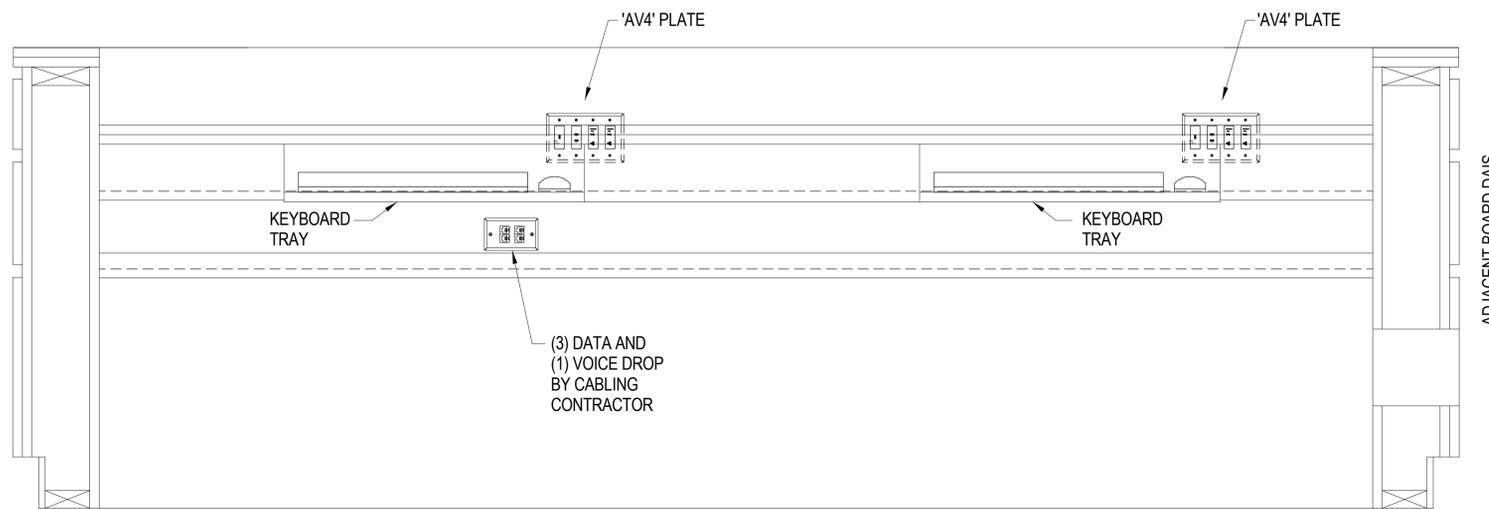
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Designed By:	JC/DG
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TECHNOLOGY -
 DETAILS

T5.6



LEFT SIDE STAFF TABLE (LOOKING FROM DAIS TABLE)



LEFT SIDE STAFF TABLE (LOOKING FROM DAIS TABLE)

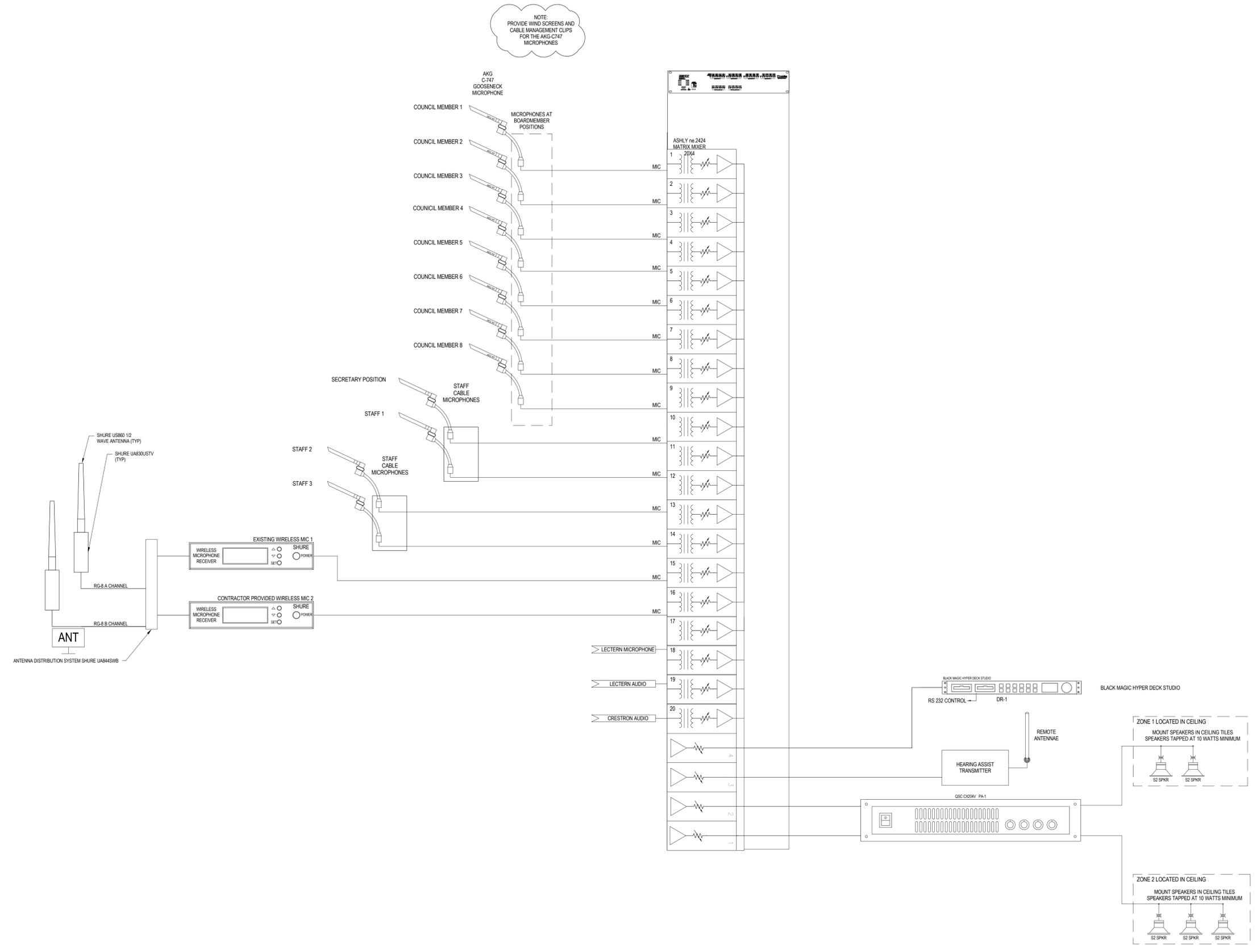
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TECHNOLOGY -
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T5.7

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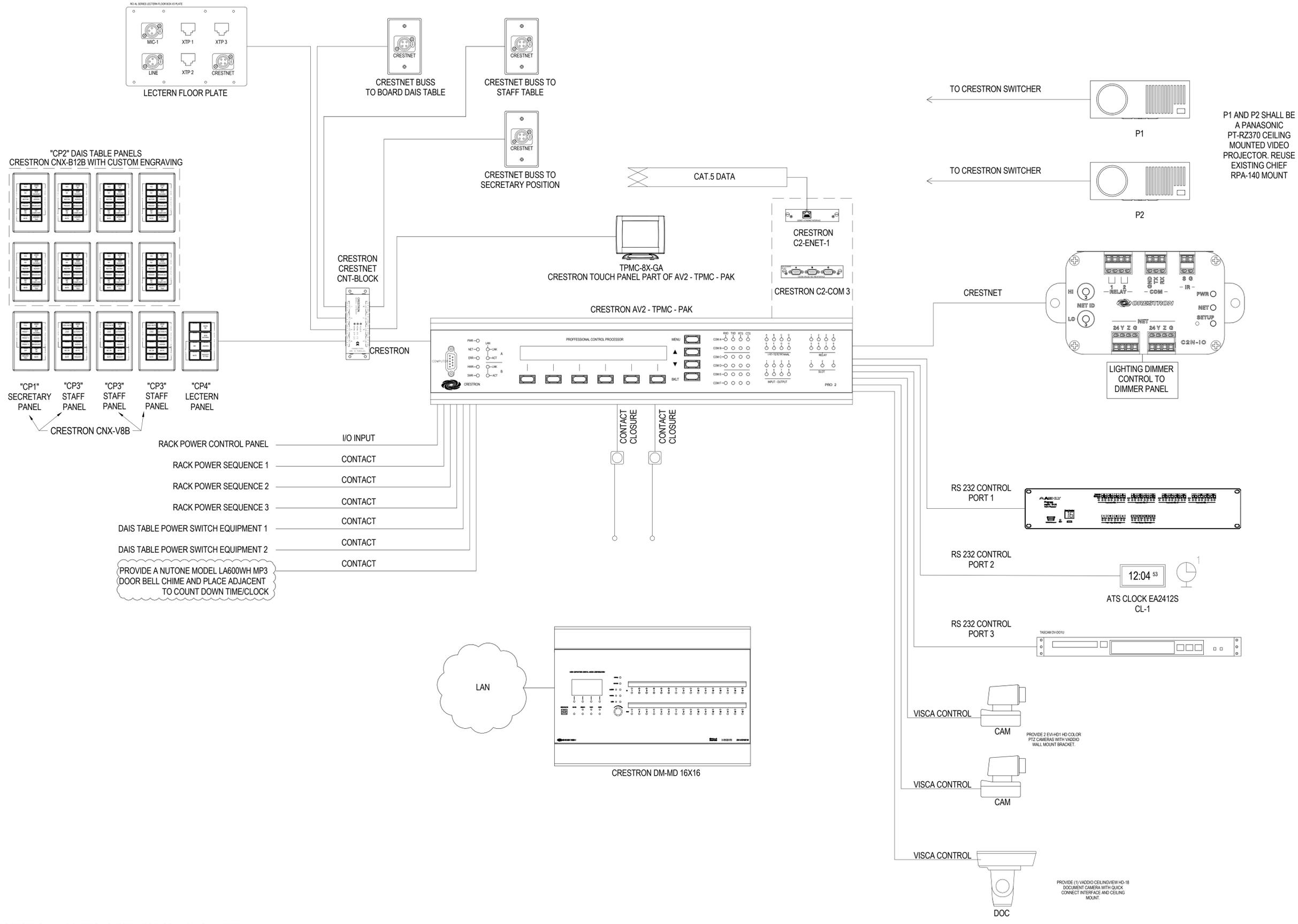


1 TYPICAL OF COUNCIL CHANGER DSP AUDIO MIXER SYSTEM
 SCALE: NTS

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Designed By:	Designer
Drawn By:	Author
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Date:	03.19.2014

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 DETAILS**

T5.9



P1 AND P2 SHALL BE A PANASONIC PT-RZ370 CEILING MOUNTED VIDEO PROJECTOR. REUSE EXISTING CHIEF RPA-140 MOUNT

PROVIDE A NUTONE MODEL LA600WH MP3 DOOR BELL CHIME AND PLACE ADJACENT TO COUNT DOWN TIME/CLOCK

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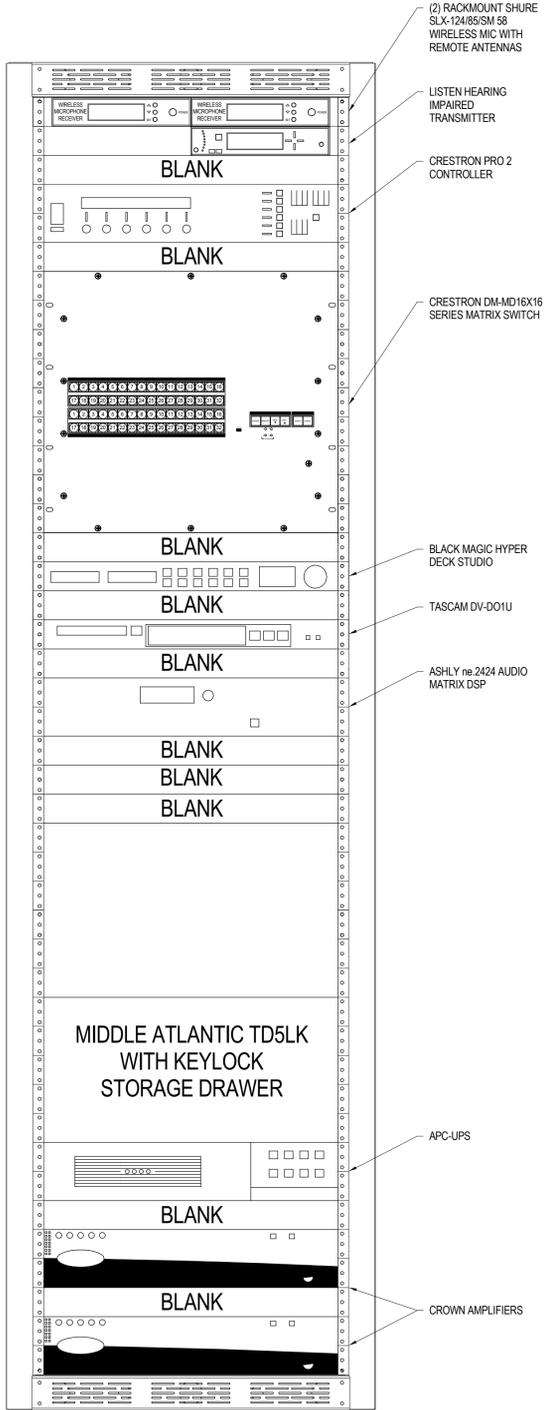
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Project No.:	12018
Checked By:	Checker
Designed By:	Designer
Drawn By:	Author
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TECHNOLOGY - DETAILS

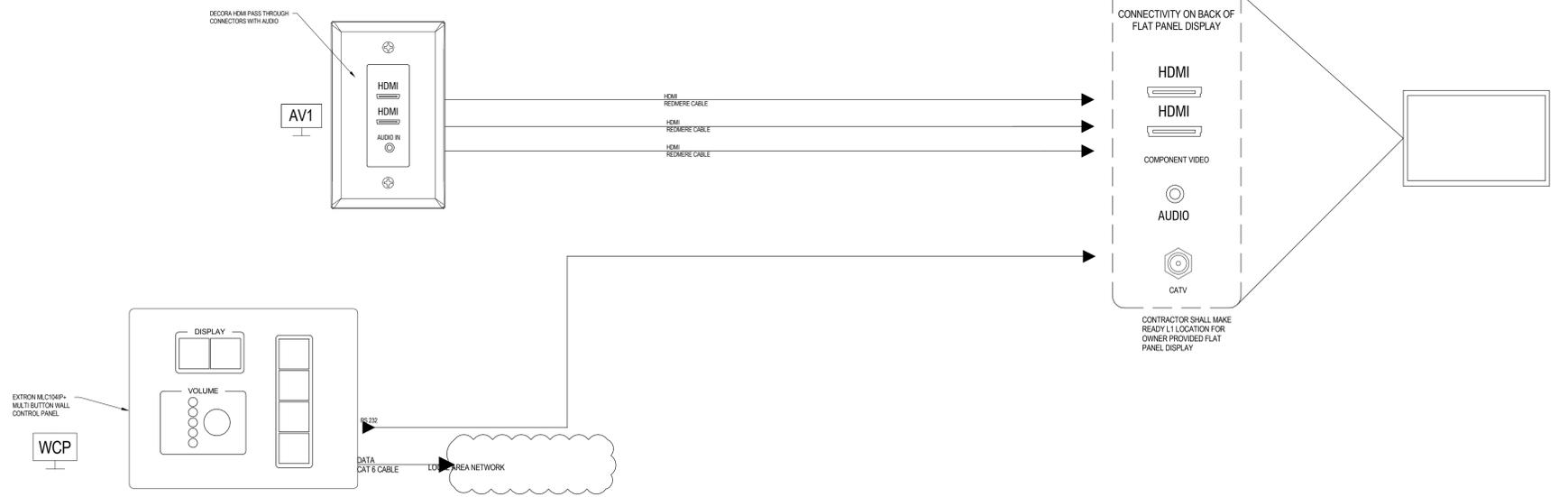
T5.10

1 TYPICAL OF CRESTRON AV CONTROL SYSTEM FOR COUNCIL CHAMBER
 SCALE: NTS

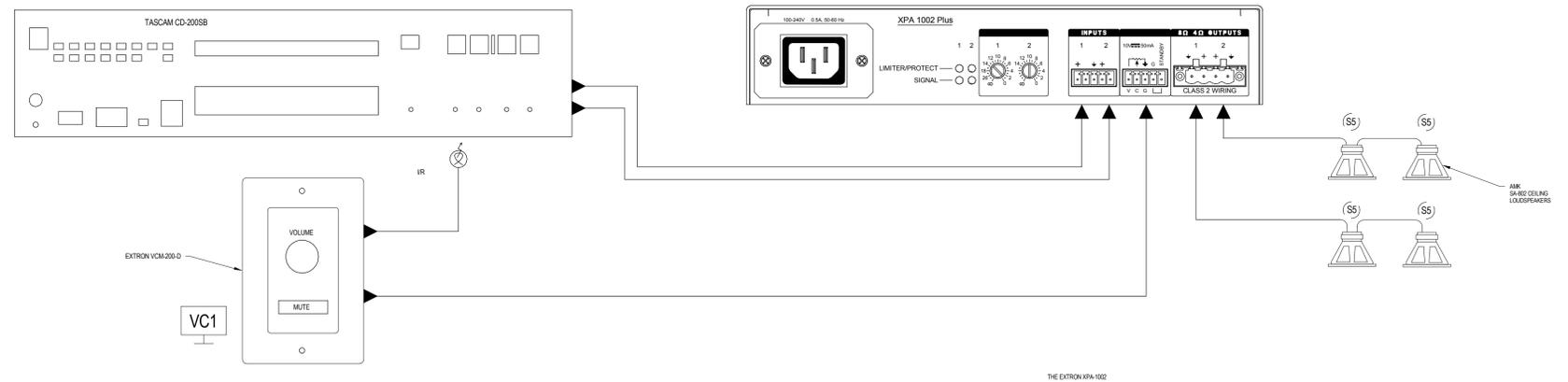
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1 CONFIGURE AS SHOWN - MAIN AUDIO VIDEO SYSTEM EQUIPMENT CABINET STORAGE ROOM A122
 SCALE: NTS



2 TYPICAL FOR CONFERENCE ROOMS A109 & A126
 SCALE: NTS

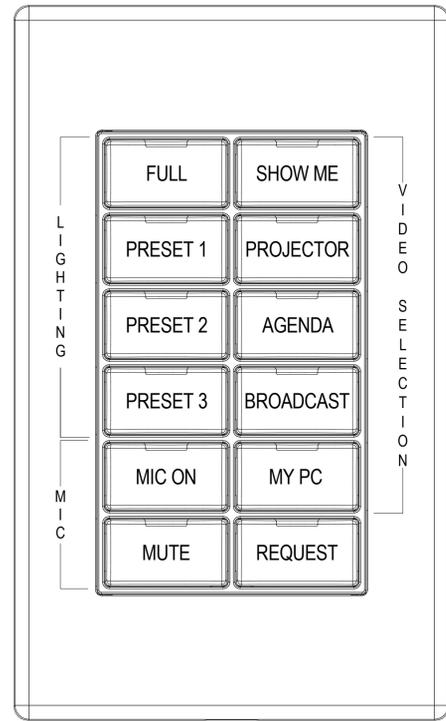


3 TYPICAL SOUND SYSTEM FOR FITNESS ROOM A166
 SCALE: NTS

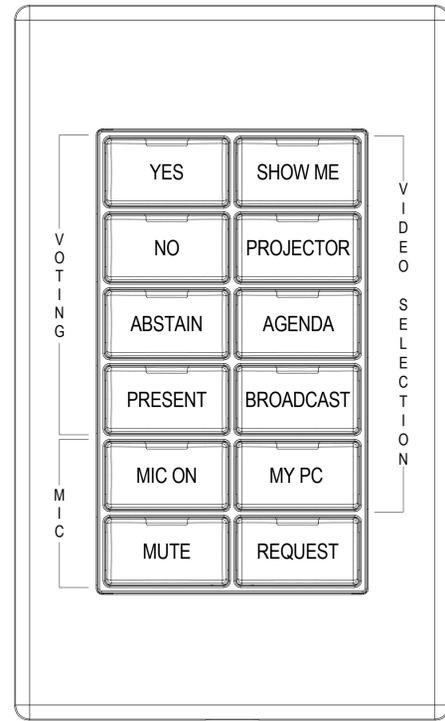
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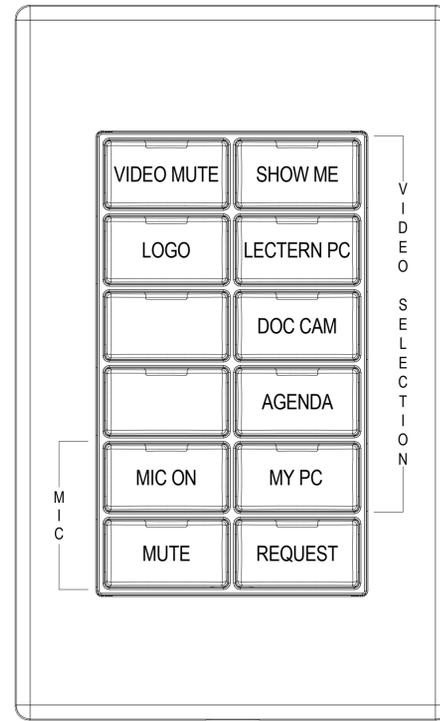
T5.11



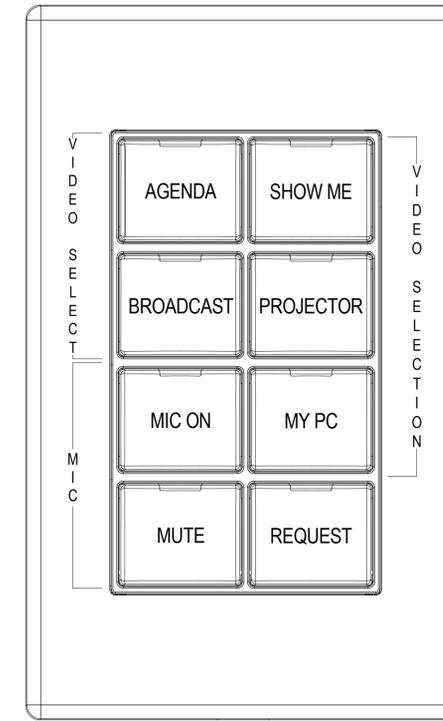
CRESTRON CNX-B12B BUTTON CONTROL PANEL "CP1" SECRETARY POSITION LOCATED IN TOP OF STAFF TABLE



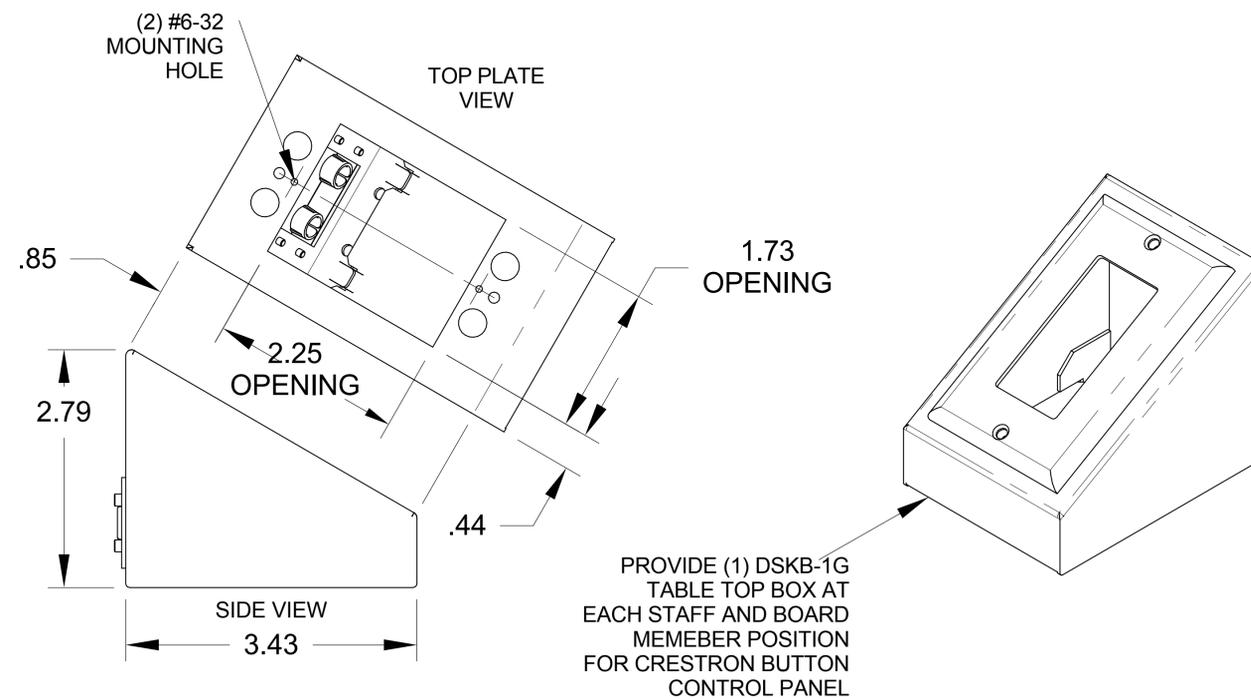
CRESTRON CNX-B12B BUTTON CONTROL PANEL "CP2" TYPICAL OF ALL BOARD MEMBER POSITIONS LOCATED IN TOP OF DAIS TABLE



CRESTRON CNX-B8B BUTTON CONTROL PANEL "CP3" LECTERN LOCATED IN TOP OF BOARDROOM LECTERN



CRESTRON CNX-B12B BUTTON CONTROL PANEL "CP4" TYPICAL STAFF POSITION LOCATED IN TOP OF STAFF TABLE.



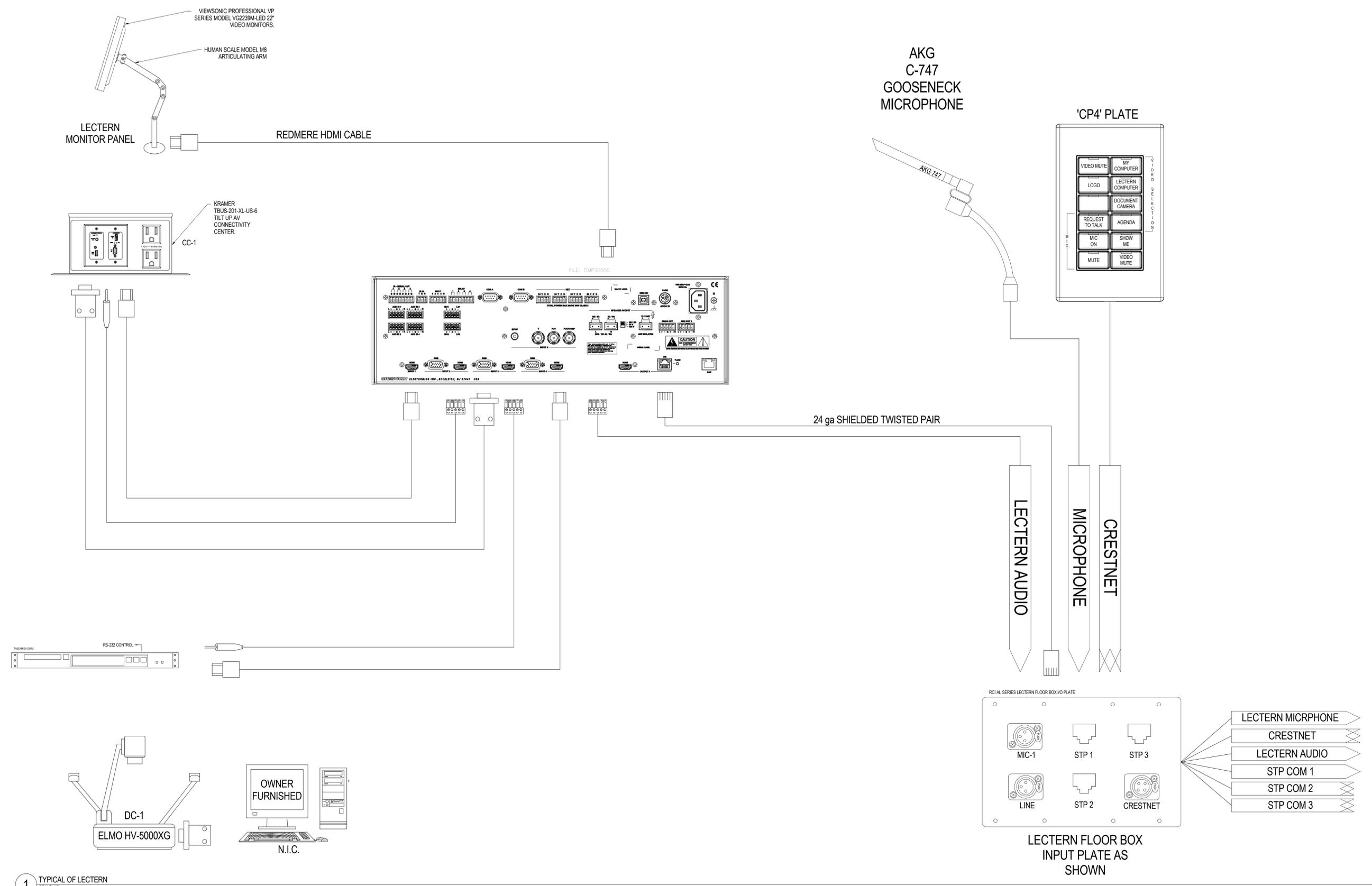
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T5.12

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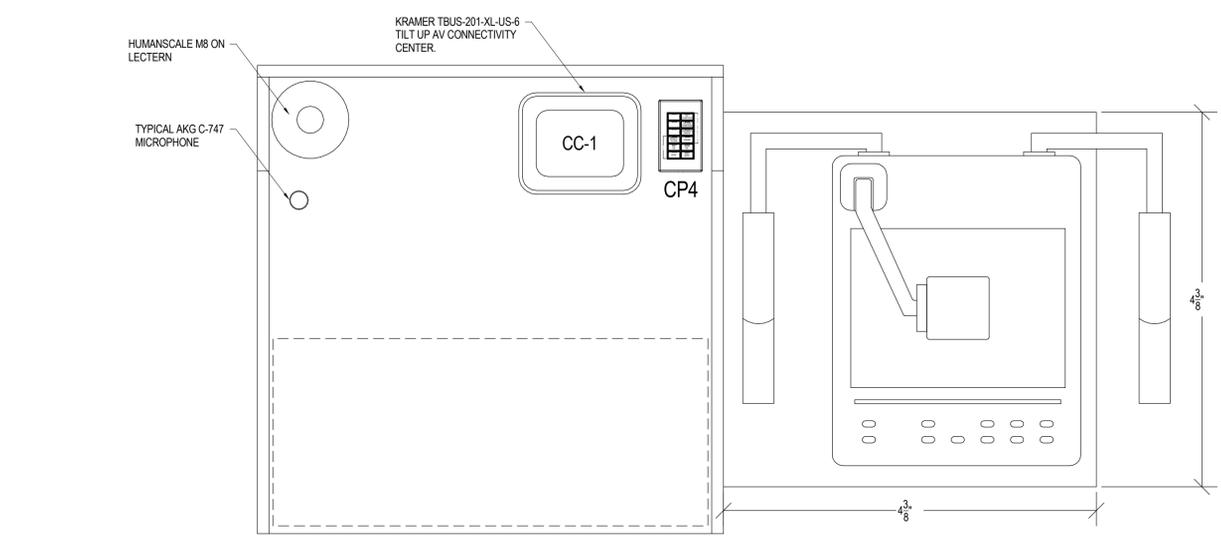


1 TYPICAL OF LECTERN
 SCALE: N5

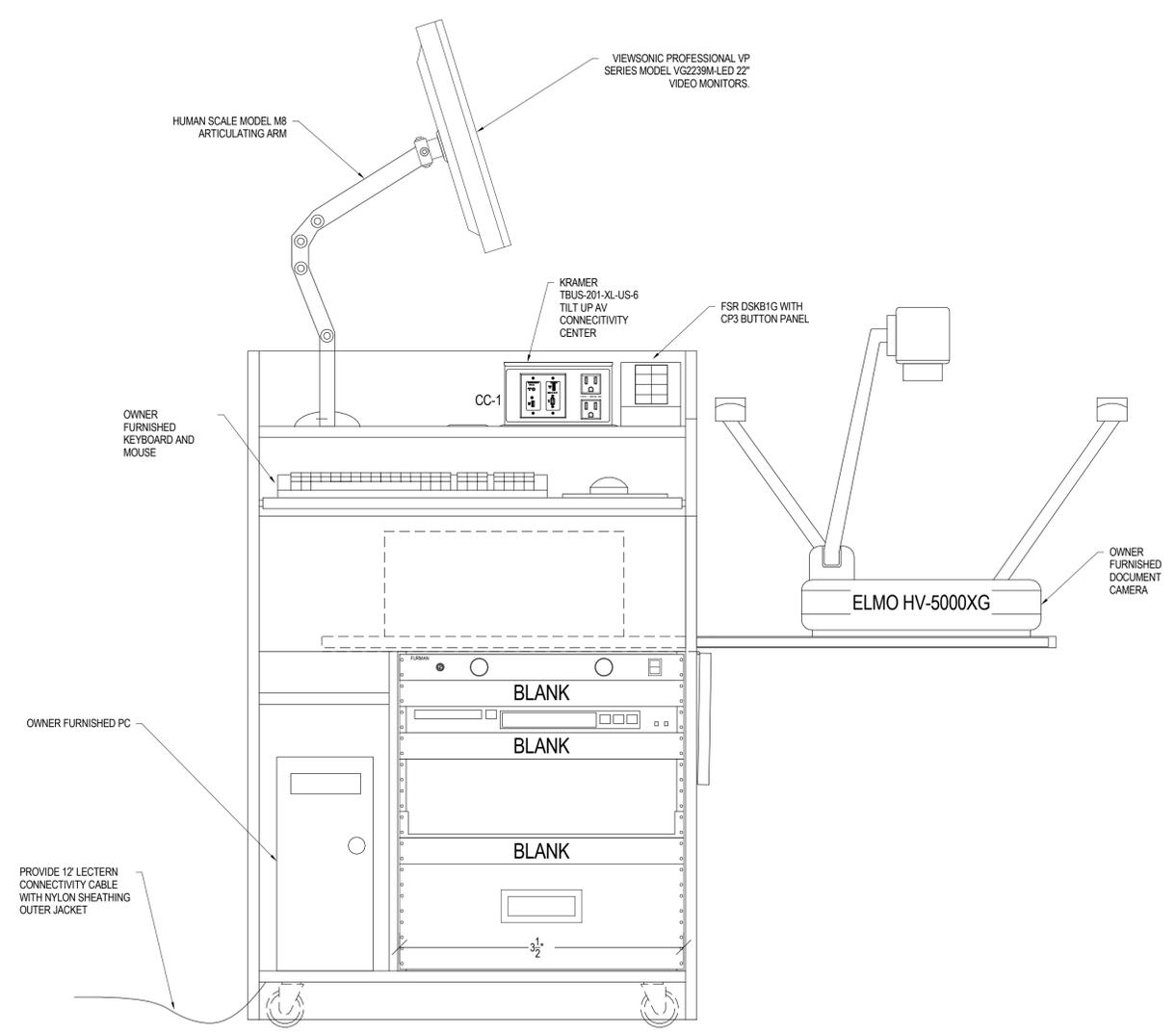
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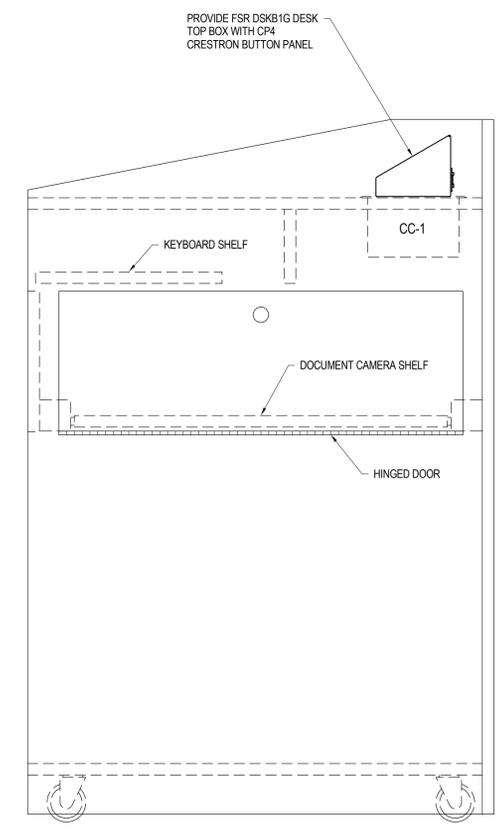
T5.13



TOP VIEW



FRONT VIEW



SIDE VIEW

AV CONTRACTOR SHALL PROVIDE CUSTOM LECTERN CONFIGURED AS SHOWN ABOVE AS ALTERNATE #T-4

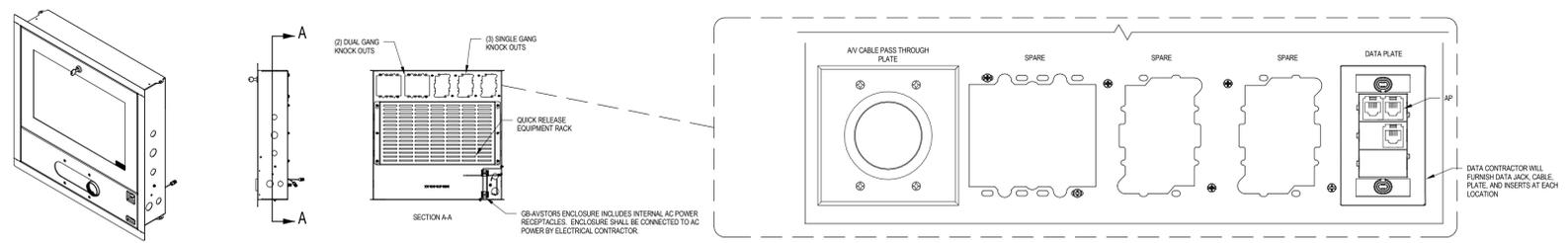
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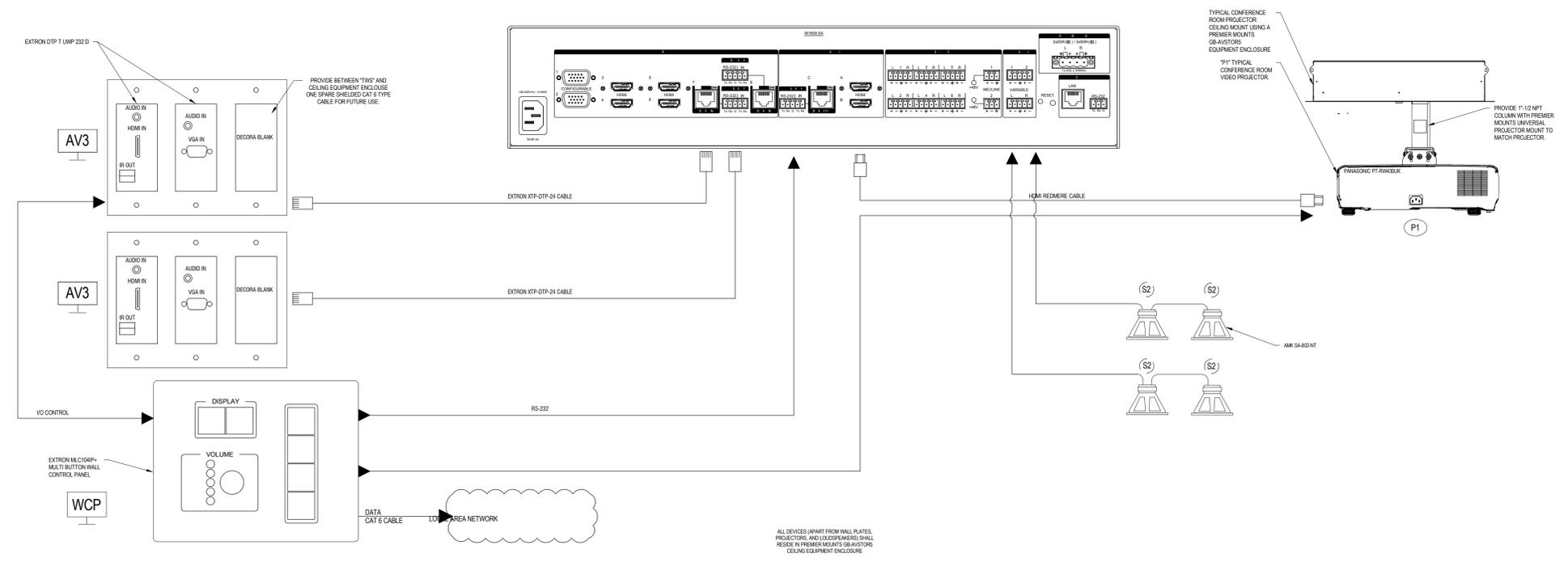
TECHNOLOGY -
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T5.14

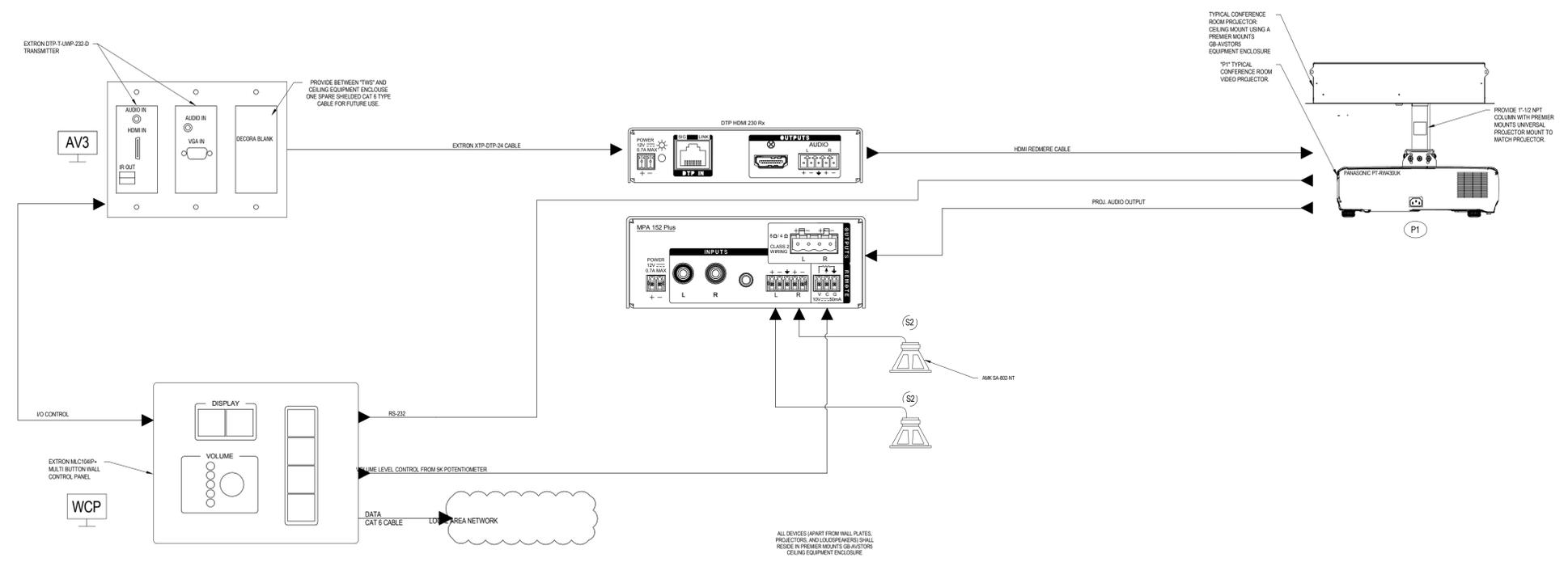
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1 PREMIER MOUNT GB-AVST05 CEILING EQUIPMENT ENCLOSURE - PROVIDE AT EACH "P1" LOCATION
 SCALE: NTS



2 TYPICAL OF CONFERENCE ROOM A121
 SCALE: NTS



3 TYPICAL OF CONFERENCE ROOM A107
 SCALE: NTS

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T5.15