AUDIO/VIDEO WIRE TYPES

AUDIO/VIDEO SYSTEM WIRING IS DIVIDED INTO GROUPS ACCORDING TO NOMINAL VOLTAGE LEVELS

	WIRING TYPE
GROUP A	MICROPHONE AND OTHER SENSITIVE WIRING (0mV to 100 mV)
GROUP B	LINE LEVEL WIRING (100 mV to 10V)
GROUP C	LOUDSPEAKER AND CONTROL WIRING (10 V TO 70 V)
GROUP D	VIDEO, CONTROL AND DIGITAL CIRCUITS
GROUP E	DATA AND FIBER OPTIC CABLE
GROUP F	SPARE CONDUIT

NOTE: THESE WIRING GROUPS MUST NEVER BE INTERMIXED WITHIN A GIVEN CONDUIT RUN OR JUNCTION BOX!

AUDIO/VIDEO CONDUIT SEPARATION

MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING WIRING OF DIFFERENT GROUPS IS:

	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E
GROUP A	ADJACENT	6"	12"	12"	12"
GROUP B	--	ADJACENT	12"	6"	6"
GROUP C	--	--	ADJACENT	6"	6"
GROUP D	--	--	--	ADJACENT	ADJACENT
GROUP E	--	--	--	--	ADJACENT
GROUP F	12"	12"	12"	12"	12"

NOTE: NINETY DEGREE CROSSINGS IN CLOSE PROXIMITY ARE ACCEPTABLE. SEPARATIONS MUST BE MAINTAINED UNTIL WITHIN SIX FEET OF BOX OR GUTTER ENTRY.

ELECTRICAL CONDUIT SEPARATION

MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING AUDIO/VIDEO WIRING AND OTHER ELECTRICAL SERVICE CONDUIT IS:

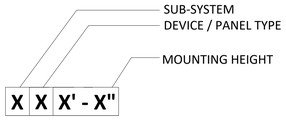
	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E	GROUP F
DIMMER CONTROLED LIGHTING	24"	12"	6"	12"	12"	24"
SCR CONTROLLED SERVICES	24"	12"	6"	12"	12"	24"
220/440VAC CIRCUITS	6"	6"	ADJACENT	ADJACENT	ADJACENT	24"
ALL OTHER SERVICES	6"	6"	ADJACENT	ADJACENT	ADJACENT	24"

NOTE: HEAVY CURRENT DEMANDS IN, OR LONG PARALLEL RUN WITH THE ABOVE SERVICES MAY DICTATE GREATER SEPARATIONS TO AVOID INTERFERENCE IN THE SYSTEMS. SEPARATIONS MUST BE MAINTAINED UNTIL WITHIN SIX FEET OF BOX OR GUTTER ENTRY.

EXCEPTIONS:

1. THE CONDUIT SEPARATIONS ABOVE ARE BASED ON THE USE OF EMT CONDUIT FOR ALL AV AND OTHER SIGNALS.
2. SEPARATIONS WHERE RIGID CONDUIT IS UTILIZED FOR AV SYSTEMS AND/OR OTHER ADJACENT SYSTEMS MAY BE HALVED.
3. SEPARATIONS WHERE PVC CONDUIT IS UTILIZED FOR AV SYSTEMS AND/OR OTHER ADJACENT SYSTEMS MUST BE DOUBLED.
4. THE CONTRACTOR MUST HAVE WRITTEN AUTHORIZATION FROM THE SYSTEMS DESIGNER FOR ANY CONDUIT INSTILLATION WHICH DOES NOT CONFORM TO THESE REQUIREMENTS.

TERMINATION SYMBOL KEY



AUDIO VISUAL GENERAL NOTES

1. GENERAL:
- A. SEE AUDIO VIDEO SYSTEM WRITTEN SPECIFICATION 27 4100 FOR WORK SCOPE INFORMATION.
- B. ALL CUSTOM PANELS SHALL BE NUMBERD ACCORDING TO APPROVED AUDIO SYSTEM SIGNAL FLOW.
- C. DRAWINGS ARE CONCEPT ONLY AND DETAILED ONLY TO THE EXTENT NECESSARY TO SHOW DESIGN INTENT AND SIGNAL FLOW.

2. MOUNTING & FINISHES
- A. DESIGN DRAWINGS ARE CONCEPTUAL. RIGGING METHODS, WHERE SHOWN, ARE TO INDICATE INTENT. AUDIO VISUAL CONTRACTOR IS RESPONSIBLE FOR ENGINEERING AND INSTALLING SAFE, APPROPRIATE MOUNTING OR SUSPENSION FOR ALL DEVICES. SUBMIT SHOP DRAWINGS FOR ALL RIGGING. REFER TO 27 4100 FOR ADDITIONAL SUMBITTAL REQUIREMENTS.
- B. AIMING INFORMATION IS PROVIDED AS A GUIDE TO INITIAL INSTALLATION. ALLOW A MINIMUM OF +/- 10° OF READILY AVAILBLE FIELD ADJUSTMENT IN ALL DIRECTIONS FROM STATED VALUES.
- C. AFTER FIELD-AIMING IS COMPLETE, ALL DEVIECS MUST BE RIGIDLY LOCKED IN PLACE SUCH THAT NORMAL OPERATIONAL DISTURBANCES OR ENVIRONMENTAL FACTORS DO NOT AFFECT FUTURE DEVICE PERFORMANCE.
- D. SEE LOCATION DRAWINGS FOR PLAN-VIEW LOCATIONS OF ALL DEVICES. COORDINATE AND COMPARE AV DRAWINGS TO ARCHITECTURAL DRAWINGS. WHERE DISCREPENCIES BETWEEN DRAWINGS EXIST, SUBMIT RFI TO ARCHITECT AND AV CONSULTANT FOR CONFIRMATION.
- E. UNLESS SPECIFICALLY NOTED OTHERWISE, DEVICES MOUNTED IN PUBLIC VIEW SHALL BE PROVIDED IN A COLOR MATCHING THE WALL OR CEILING WHERE MOUNTED, TO BE CONFIRMED BY THE ARCHITECT DURING PRODUCT SUBMITTALS. IF MATERIAL IS NOT AVAILABLE IN THE REQUIRED COLOR FROM THE MANUFACTURER, THE AV CONTRACTOR SHALL FIELD-PAINT THE DEVICES TO MEET THIS CRITERIA.
- F. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL AV BACKBOXES TO BE MOUNTED TO WALLS AND CEILINGS SHALL BE RECESSED INTO THE DESIGNATED SURFACE AND THE ASSOCIATED PANEL SHALL BE MOUNTED FLUSH TO THE MOUNTING SURFACE.

3. ELECTRICAL / INFRASTRUCTURE COORDINATION:
- A. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE CONDUIT SYSTEM FOR THE AUDIOVISUAL SYSTEM, INCLUDING ALL CONDUITS, JUNCTION BOXES, CABLE TRAY, FLOOR BOXES, AND AUDIOVISUAL OUTLET BOXES UNLESS OTHERWISE NOTED. REFER TO AUDIOVISUAL SCHEDULES FOR DETAILS. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE CONDUIT RISER FOR REVIEW AS A SUBMITTAL SHOWING ALL REQUIRED COMPONENTS FOR A COMPLETE SYSTEM, INCLUDING PULL BOXES, CONDUIT FITTINGS, ETC.
- B. ALL CONDUIT TO BE STEEL EMT (ELECTRICAL METALLIC TUBING) EXCEPT AS NOTED.
- C. ALL CONDUIT SHALL BE 1" UNLESS OTHERWISE NOTED.
- D. 70-VOLT LOUDSPEAKER WIRING IN ACCESIBLE CEILINGS CAN BE RUN OUTSIDE OF CONDUIT WITH CABLE SUPPORTS.
- E. CONDUIT RUN IN AND BELOW CONCRETE SLABS ON GRADE TO BE PVC COATED STEEL.
- F. ALL CONDUIT TO BE HOME RUNS TO JUNCTION BOXES OR CABLE TRAY ABOVE AUDIO VISUAL EQUIPMENT RACK UNLESS OTHERWISE NOTED.
- G. INTERMEDIATE MARSHALLING BOXES FOR THE GROUPING OF HOMERUN CONDUTIS BY CONDUIT GROUPS ARE ACCEPTABLE. CONTRACTOR RESPONSIBLE FOR MAINTAINING CONDUIT CAPACITY AND PULL BOX SIZE. USE 30% FILL FOR CONDUIT SIZE CALCULATIONS.
- H. FOR FLUSH-MOUNTED GANG BOXES, USE RACO 3-1/2" DEEP STEEL BACKBOXES OR EQUAL, UNLESS OTHERWISE NOTED.
- I. FOR SURFACE- AND PIPE-MOUNTED GANG BOXES USE SMWB, LEVITON BACKBOX SERIES SURFACE MOUNT POWDER-COATED STEEL BOX OR EQUAL BY ELECTRONIC THEATRE CONTROLS.
- J. USE SEPARATE STEEL CONDUITS FOR MIRCOPHONE-LEVEL CIRCUITS (BELOW -20 DBM), LINE-LEVEL CIRCUITS (UP TO +30 DBM), LOUDSPEAKER CIRCUITS (ABOVE +30 DBM) CONTROL CIRCUITS, DATA CIRCUITS, VIDEO CIRCUITS, AND POWER CIRCUITS. USE AUDIO CONDUIT THAT IS SPACED AT LEAST 12 INCHES AWAY FROM POWER CONDUIT. INSULATE ALL CONDUIT FROM THE EQUIPMENT RACK(S)' GROUND CONDUIT ONLY TO POWER SYSTEM GROUND. DO NOT SPLICE LINES IN CONDUIT. CONNECT EACH INPUT RECEPTACLE BY AN INDIVIDUAL, INSLUATED LINE TO THE SYSTEM EQUIPMENT RACK.
- K. GROUP D CONDUITS CARRYING CATEGORY CABLE MAXIMUM RUN SHALL BE 280 FEET.
- L. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDUIT SIZE.
- M. PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- N. PROVIDE PULL BOX AFTER 180 DEGRESS OF CONDUIT BEND OR 100 FEET, WHICHEVER COMES FIRST.
- O. ELECTRICAL CONTRACTOR TO PROVIE ALL STANDARD ELECTRICAL BACKBOXES AND FLOOR BOXES.
- P. ALL AUDIO/VIDEO SYSTEM TECHNICAL AND COMMON POWER IS PROVIDED AS PART OF THE ELECTRICAL CONTRACT.
- Q. LABEL ALL INSTALLED AV LOW VOLTAGE CONDUIT AT THE ORIGINS, AT EACH POINT OF TERMINATION TO A PULL BOX, AND AT THE DESTINATION.
- R. ALL AUDIO/VIDEO LOW VOLTAGE CABLES SHALL BE FURNISHED, INSTALLED, AND TERMINATED BY THE AUDIO/VIDEO CONTRACTOR.
- **S.** THE AUDIO VIDEO CONTRACTOR IS RESPONSIBLE FOR CREATING AND SUBMITTING SHOP DRAWING SUBMITTALS SHOWING ALL CONDUIT ROUTING, SIZES, MARSHALLING BOXES, AND SEPARATION REQUIREMENTS PRIOR TO ROUGH-IN. THIS SET OF DRAWINGS SHALL BE COORDIANTED WITH THE ELECTRICAL CONTRACTOR.

4. AUDIO VISUAL NETWORK NOTES:
- A. AV NETWORK SWITCH LAYOUTS ARE CONCEPTUAL TO PROVIDE QUANTITY OF AV NETWORK SWITCHES TO MEET QUANTITY OF PORTS, POE, AND BANDWIDTH BUDGETS, AS REQUIED.
- B. AV NETWORK SWITCHES ARE TO TIE TOGETHER USING FIBER/SFP, WHERE REQUIRED.
- C. AUDIOVISUAL CONTRACTOR IS RESPONSIBLE FOR CONFIGURING THE ETHERNET SWITCHES WITH APPROPRIATE VLANS TO SEPARATE THE AV CONTROL, AV-LAN, DANTE, ETC. FROM THE DATA NETWORK. COORDINATE WITH OWNER.
- D. EQUIPMENT SUCH AS DIGITAL AUDIO SIGNAL PROCESSORS AND AV NETWORK SWITCHES ARE SHOWN CONCEPTUALLY AS SINGLE DEVICES IN THE FUNCTIONAL DRAWINGS. AV CONTRACTOR TO VERIFY QUANTIEIS AND CONECT MULTIPLE DEVICES TOGETHER, AS REQUIRED, TO MEET THE FUNCTIONALITY DESCRIBED IN THE FUNCTIONAL DRAWINGS.
- E. PROVIDE RUGGEDIZED CONNECTORS FOR ALL RECEPTACLE PANEL RJ45 CONNECTIONS (EX: NEUTRIK ETHERCON). COLOR CODEED RINGS ARE TO BE PROVIDED FOR ETHERCON RECEPTACLES AND PLUGS TO INDICATE CONNECTION TYPES (DANTE, SLINK, LAN, ETC.)

5. DEMOLITION NOTES:
- A. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FULLY UNDERSTANDING THE SCOPE OF DEMOLITION PRIOR TO SUBMITTING A PROPOSAL.
- B. THE CONTRACTOR MAY USE EXISTING CONDUIT AND BACKBOXES, PROVIDED THEY MEET THE SYSTEM DESCRIPTION, FUNCTIONALITY, DEVICE LOCATION, AND FORM DOCUMENTED WITHIN THIS DRAWING AND SPECIFICATION PACKAGE.
- C. THE CONTRACTOR SHALL REMOVE THE FOLLOWING FROM THE AUDITORIUM:
  - a. ALL EXISTING AUDIO VISUAL SYSTEM FACEPLATES, BACKBOXES, AND CABLE.
    - REMOVE ALL EXISTING CABLE FROM SOURCE. DO NOT LEAVE ANY DISCARDED CABLE IN PLACE.
  - b. ALL EXISTING AUDIO VISUAL SYSTEM SPEAKERS, DELIVER TO OWNER.
  - c. ALL EXISTING AUDIO VISUAL CABINETS AND ELECTRONICS, DELIVER TO OWNER.
  - d. EXISTING ELECTRIC SCREEN, DELIVER TO OWNER.
  - e. ANY EXISTING AUDIO VISUAL ELECTRONICS, CONTROL PANELS, AND EQUIPMENT, DELIVER TO OWNER.
- D. THE CONTRACTOR IS RESPONSIBLE FOR PATCHING, PLATING, AND PAINTING ANY WALL OR CEILING OPENINGS CREATED BY DEMOLITION.

AV WIRE TYPE BASIS OF DESIGN UNLESS OTHERWISE NOTED

SIGNAL TYPE	DESCRIPTION	DESCRIPTOR	MANUFACTURER	WIRE NUMBER	OUTER DIAMETER
A	MICROPHONE	MIC	Belden	9451	0.135
B	COMM SYSTEM	COMM	Belden	9460	0.23
B	TIE LINES	LINE	Belden	1696A	0.234
C	TWISTED JACKETED 14 AWG	70V4	West Penn	226	0.234
C	TWISTED JACKETED 16 AWG	70V6	West Penn	225	0.182
C	TWISTED JACKETED 16 AWG - REMOTE POWER	CAMPWR	West Penn	225	0.182
C	TWISTED JACKETED 16 AWG - INDUCTION LOOP	LOOP	West Penn	225	0.182
C	TWISTED JACKETED 8 AWG	LS08	West Penn	C208	0.498
C	TWISTED UNJACKETED 10 AWG	LS10	West Penn	NJ210BKWH	0.326
C	TWISTED UNJACKETED 12 AWG	LS12	West Penn	C207	0.26
C	TWISTED UNJACKETED 14 AWG	LS14	West Penn	C206	0.222
C	(4 COND) JACKETED 18 AWG	LSXP	Belden	1502R	0.25
C	(4 COND) JACKETED 16 AWG - VOLUME CONTROL	VOL	West Penn	245	0.217
D	RF-MICS AND RF-ALS	ANT	Belden	7810A	.403
D	MIDI	MIDI	Belden	9941	0.23
D	CONTROL SYSTEM RELAY	RLY	Belden	9460	0.23
D	RMS	RMS	Belden	8205	0.18
D	VIDEO COAX	SDI	Belden	4794P	.297
D	CONTROL SYSTEM 232/485 AND IR	SER	Belden	9460	0.23
E	MULTI MODE FIBER (6 ct.) OM4	MMF	Belden	FI4D006R9A	0.17
E	SINGLE MODE FIBER (6 ct.) OS2	SMF	Belden	FISD006R9	0.17
E	SMPTE HYBRID	SMPTE	Gepco	HDC920R	0.362
E	SHIELDED CAT6A	STP	Belden	10GX52F	0.3
E	UNSHIELDED CAT6A	UTP	Belden	10GX52F	0.3
F	BEVWAY DUCT	BVWY	Kelly Bevway	8" SYSTEM	
F	FIRE STOPPED CABLE PASS TRIPLE	CBP3	Abesco	3X 31942 + 31986	
F	FIRE STOPPED CABLE PASS SINGLE	CPB1	Abesco	31942 + 31982	
F	EMPTY CONDUIT - 1"	ECO1			
F	EMPTY CONDUIT - 2"	ECO2			

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STAPLES HIGH SCHOOL

70 NORTH AVE,
WESTPORT, CT 06680

PROJECT NO.: Project Number

DRAWN BY: ND

AUDIO VISUAL GENERAL NOTES

DRAWING NO.

AV000

Audio Visual Electric Screen Schedule

SUBSYSTEM	TYPE	DESCRIPTION	IMAGE LENGTH	IMAGE HEIGHT	IMAGE AREA	PRODUCT NAME	SCREEN MATERIAL	WEIGHT	POWER REQUIREMENT
SC	A	384" DIAGONAL ELECTRIC SCREEN, 16x9	27' - 8"	15' - 7"	187" x 332"	Paragon/Series E Electric Projection Screen	Fabric - Draper - XT100E - Matt White	440 lbs	20A CIRCUIT

Audio Visual Equipment Schedule

SUBSYSTEM	TYPE	DESCRIPTION	MAKE & MODEL	WEIGHT
P	A	LARGE FORMAT PROJECTOR	EPSON #EB-PU2220B, 20K Lumen Projector	55 LB

Audio Visual Panel Schedule

SUBSYSTEM	TYPE	DESCRIPTION	BACKBOX SIZE	BASIS OF DESIGN DEVICE SUPPORTED	WIRE QTYs	WIRE TYPES	ROUTE TO	CONVENIENCE POWER
A	A	TIE LINE	6x6x4	CUSTOM TIE LINE	(2) UTP, (2) SDI	D, E	R1	20A CIRCUIT
A	B	VIDEO, BLUETOOTH, AUDIO INTERFACE	5 GANG	QSYS #unD6IO-BT, #D2i, #NV-1-H-WE	(3) UTP	E	R1	20A DBL DUPLEX
A	C	10" CONTROL PANEL	4x4x2-1/8" DP	QSYS #TSC-101-G3	(1) UTP	E	R1	N/A
A	D	FLOORBOX	LEGRAND EFB10	QSYS #unD2i,CNTRL, AV LAN	(3) UTP	E	R1	20A DBL DUPLEX
A	E	SCREEN PANEL	4x4x4	ELECTRIC SCREEN	(1) RLY	D	R1	20A CIRCUIT
A	F	ALS ANTENNA	4x4x4	ALS ANTENNA	(1) ANT	D	R1	N/A
A	G	WIRELESS MIC ANTENNA	4x4x4	WIRELESS MIC ANTENNA	(1) ANT	D	R1	N/A
A	H	PROJECTOR PANEL	4x4x4	PROJECTOR	(2) UTP	C	R1	20A DBL DUPLEX
A	J	MIX TIE LINE	6x6x4	CUSTOM TIE LINE	(4) UTP, (4) SDI	C, D	R1	20A CIRCUIT
A	K	CEILING MIC PANEL	4x4x4	MX202BC	(1) MIC	A	R1	N/A
A	L	SUPPORTING SPACE TIE LINE	4x4x4	CUSTOM	(2) UTP	E	R1	N/A
A	T	PTZ CAMERA	4x4x2-1/8" DP	QSYS #NC-12X80	(1) UTP	E	R1	N/A
A	U	INTERCOM ANTENNA PANEL	<varies>	FSII-TCVR-IP-19	(1) UTP	E	R1	N/A
B	A	SPEAKER PANEL	4x4x4	MAIN & FILL	(2) LS10	C	R1	N/A
B	B	SPEAKER PANEL	4x4x4	MS MON	(1) LS10	C	R1	N/A
B	C	DELAY SPEAKER PANEL	4x4x4	SPEAKER S-C	(1) LS10	B	R1	N/A
B	D	SPEAKER PANEL	6x6x4	CENTER ARRAY	(4) LS10	C	R1	N/A
B	E	SPEAKER PANEL	4x4x4	DS MON	(1) LS10	C	R1	N/A
B	F	SPEAKER PANEL	4x4x4	OFF STAGE MON	(1) LS10	C	R1	N/A
B	G	SPEAKER PANEL	6x6x4	FRONT FILL OUTER	(1) LS10	B	R1	N/A
B	H	SPEAKER PANEL	6x6x4	FRONT FILL CENTER	(1) LS10	B	R1	N/A
M	A	65" PRO DISPLAY	CHIEF PAC 525	QM65R / LTM1U	(2) UTP	E	R1	20A DBL DUPLEX

Audio Visual Rack Schedule

SUBSYSTEM	TYPE	DESCRIPTION	CONVENIENCE POWER	WEIGHT
R	1.2	MID ATL SR-40-28	(2) DEDICATED 20A DBL DUPLEX, (1) L6-30R	115lb (unloaded)
R	1.1	MID ATL SR-40-28	(2) DEDICATED 20A DBL DUPLEX, (1) L6-30R	115lb (unloaded)
R	2	MID ATL EWR-8-22SD	USE EXISTING OUTLET	65lb (unloaded)

Audio Visual Speaker Schedule

SUBSYSTEM	TYPE	DESCRIPTION	SPEAKER MFG & MODEL	INSTALLED HEIGHT	AZI	PIT	ROT	WEIGHT	SPLAY ANGLES
S	A	FILL LEFT	CCX1295 / YA-CX12	13' - 6" AFF	-5.00°	-5.00°	0.00°	35 LBS.	
S	B	MAIN LEFT	CCX1295 / YA-CX12	15' AFF	-40.00°	-5.00°	0.00°	35 LBS.	
S	C	MAIN RIGHT	CCX1295 / YA-CX12	15' AFF	-40.00°	-5.00°	0.00°	35 LBS.	
S	D	FILL RIGHT	CCX1295 / YA-CX12	13' - 6" AFF	-5.00°	-5.00°	0.00°	35 LBS.	
S	E	CENTER ARRAY	(1) CCS18, (2) CCS15, (1) CCS230	25' AFF	0.00°	0.00°	0.00°	300 LBS.	0.0°, 7.5°, 15.0°, 22.5°
S	F	BALCONY DELAY	CCX1295 / YA-CX12	30' AFF	0.00°	-10.00°	0.00°	35 LBS.	
S	H	MS MON LEFT	RX8 / UB-RX8	12' AFF	0.00°	0.00°	0.00°	15 LBS.	
S	I	MS MON RIGHT	RX8 / UB-RX8	12' AFF	0.00°	0.00°	0.00°	15 LBS.	
S	J	DS MON LEFT	RX8 / UB-RX8	21' AFF	0.00°	0.00°	0.00°	15 LBS.	
S	K	DS MON CENTER	RX8 / UB-RX8	21' AFF	0.00°	0.00°	0.00°	15 LBS.	
S	L	DS MON RIGHT	RX8 / UB-RX8	21' AFF	0.00°	0.00°	0.00°	15 LBS.	
S	M	OFFSTAGE MON R	DX896 / YK-DX8	12' AFF	0.00°	0.00°	0.00°	35 LBS.	
S	N	OFFSTAGE MON L	DX896 / YK-DX8	12' AFF	0.00°	0.00°	0.00°	35 LBS.	
S	O	FRONT FILL OUTER L	RX5 / UB-RX5	FLOOR	0.00°	0.00°	0.00°	7 LBS	
S	P	FRONT FILL OUTER L	RX5 / UB-RX5	FLOOR	0.00°	0.00°	0.00°	7 LBS	
S	Q	FRONT FILL CENTER L	RX5 / UB-RX5	FLOOR	0.00°	0.00°	0.00°	7 LBS	
S	R	FRONT FILL CENTER C	RX5 / UB-RX5	FLOOR	0.00°	0.00°	0.00°	7 LBS	
S	S	FRONT FILL CENTER R	RX5 / UB-RX5	FLOOR	0.00°	0.00°	0.00°	7 LBS	
S	T	FRONT FILL OUTER R	RX5 / UB-RX5	FLOOR	0.00°	0.00°	0.00°	7 LBS	
S	U	FRONT FILL OUTER R	RX5 / UB-RX5	FLOOR	0.00°	0.00°	0.00°	7 LBS	

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STAPLES HIGH SCHOOL

70 NORTH AVE,
WESTPORT, CT 06680

PROJECT NO.: Project Number
DRAWN BY: ND

AUDIO VISUAL SCHEDULES

DRAWING NO.
AV001



1 01 STAGE FINISHED FLOOR
1/8" = 1'-0"

AUDIO VISUAL DRAWING KEYNOTES

1. THE BLACKBOX THEATER EQUIPMENT & INFRASTRUCTURE SHALL BE PRICED UNDER **ADD ALT. #1**
   REFER TO 27 4100 MAJOR EQUIPMENT SCHEDULE AND AV301.
   a. CONFIGURE (1) LAN PORT ON PANEL AU TO DISTRIBUTE PTZ CAMERA SIGNAL FOCUSED ON STAGE TO AVOIP DECODER FOR CONNECTION TO CONFIDENCE MONITOR ON STAND.
2. THE FOLLOWING SCOPE SHALL BE PRICED UNDER **ADD ALT. #1**, REFER TO 27 4100 MAJOR EQUIPMENT SCHEDULE AND AV301.
   a. REMOVE EXISTING 70V AMPLIFIERS IN OFFICE AND REPLACE WITH CXO-8K8 OR EQUIVALENT IN CABINET. CONNECT AMPLIFIER TO AV LAN. REFER TO AV301.
   b. UTILIZE NEW 8-CHANNEL AMPLIFIER TO FEED EXISTING SPEAKERS AND SPEAKER CABLE IN THE FOLLOWING SPACES:
      - BAND ROOM - QTY (1) 70V WALL MOUNTED SPEAKER
      - ORCHESTRA ROOM - QTY (1) 70V WALL MOUNTED SPEAKER
      - CHORAL ROOM - QTY (1) 70V WALL MOUNTED SPEAKER
      - BLACKBOX THEATER OVERFLOW SPEAKERS
      - PRACTICE ROOM CORRIDOR - QTY (2) 70V CEILING SPEAKERS
      - BACKSTAGE CORRIDOR - QTY (5) 70V CEILING SPEAKERS **NOTE!!! DO NOT CONNECT TO EXISTING PUBLIC ADDRESS / PAGING SPEAKERS!!!**
      - COSTUME WORKSHOP - QTY (1) 70V WALL MOUNTED SPEAKER
      - MAKEUP RM #1 & MAKEUP RM #2 - QTY (1) 70V WALL MOUNTED SPEAKER EACH. CABLE ON ONE CHANNEL.
   c. CONFIGURE TOUCH SCREEN CONTROL PANEL IN OFFICE TO TURN ON INDIVIDUAL CHANNELS AND ADJUST INDIVIDUAL CHANNEL VOLUME.
   d. THE AMPLIFIER SHALL BROADCAST PROGRAM AUDIO.
3. FILL SPEAKERS SHALL BE LOOSE EQUIPMENT.

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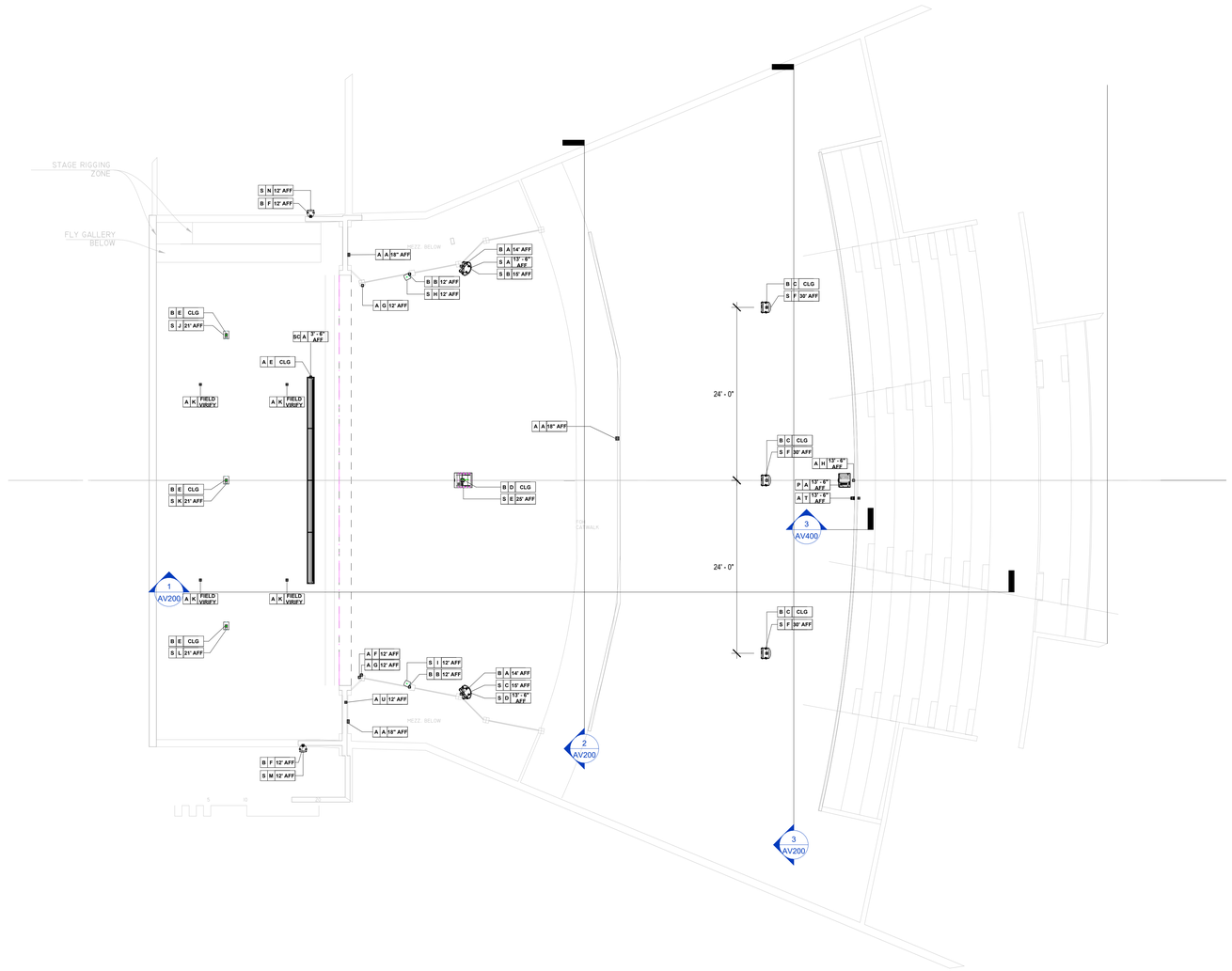
STAPLES HIGH SCHOOL

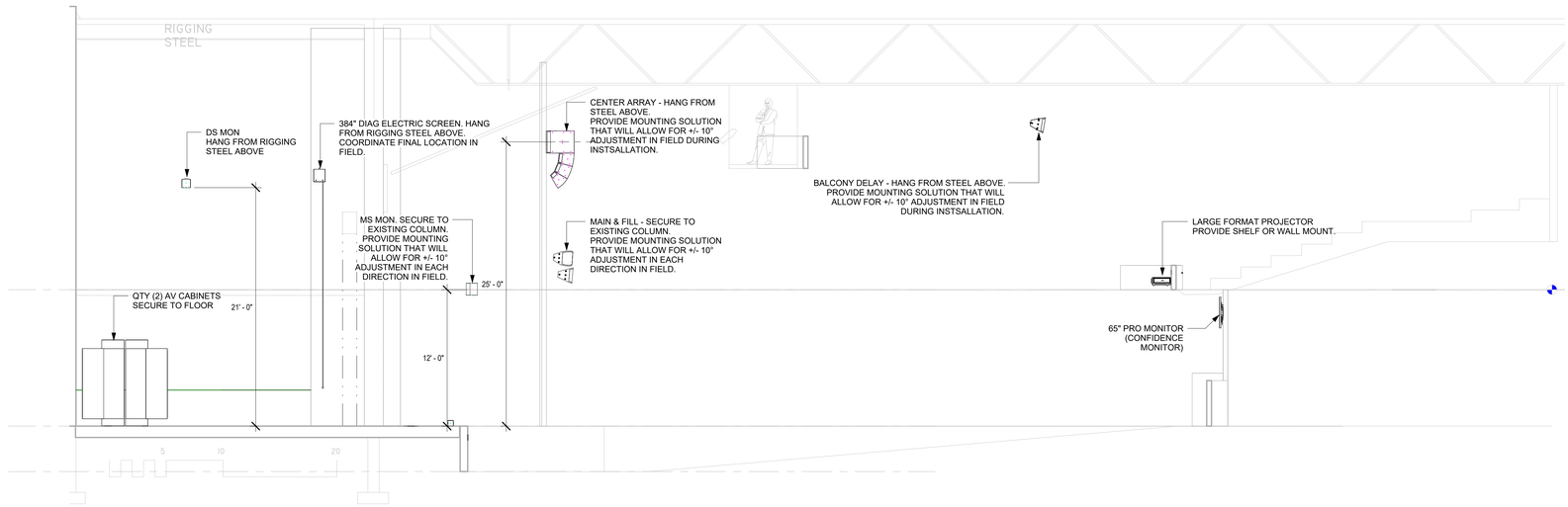
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PROJECT NO.: Project Number
DRAWN BY: ND

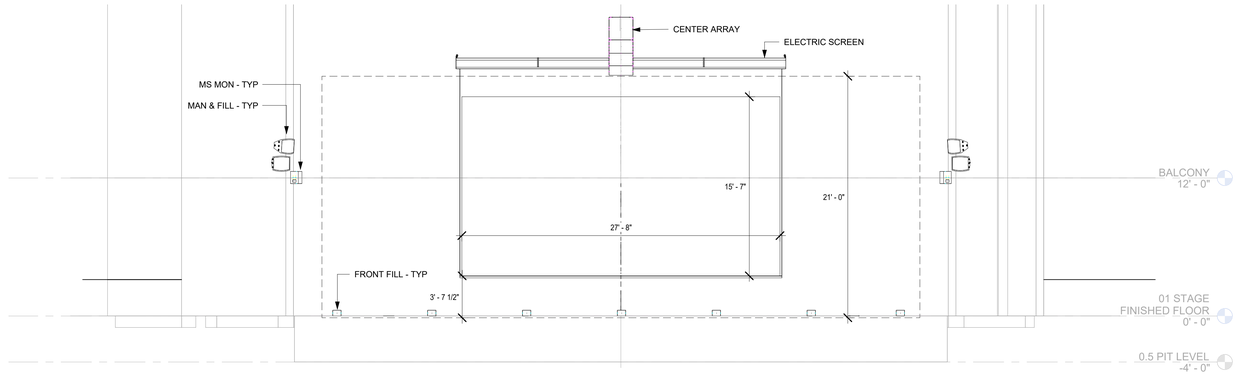
AUDITORIUM FIRST FLOOR

DRAWING NO.
AV101


STAGE RIGGING ZONE
FLY GALLERY BELOW
SEE DETAIL
SEE DETAIL
SEE DETAIL



1 AUDITORIUM ELEVATION
3/16" = 1'-0"



2 AUDITORIUM SCREEN ELEVATION
3/16" = 1'-0"



3 AUDITORIUM DELAY SPEAKER ELEVATION
3/16" = 1'-0"

40		CAT6A PATCH PANEL
39		
38		CAT6A PATCH PANEL
37		
36		VERTICAL WIRE MANAGER
35		48 PORT SWITCH
34		VERTICAL WIRE MANAGER
33		48 PORT SWITCH
32		WIRELESS MIC RECEIVER
31		WIRELESS MIC RECEIVER
30		WIRELESS MIC RECEIVER
29		WIRELESS MIC RECEIVER
28		WIRELESS MIC RECEIVER
27		WIRELESS MIC RECEIVER
26		DSP
25		
24		CONTROL PANEL
23		
22		INTERCOM MASTER
21		APPLIANCE RECORDER
20		
19		SHELF
18		
17		SHELF
16		
15		
14		
13		
12		
11		
10		
09		
08		
07		BLANK VENT
06		
05		AMP 3
04		BLANK VENT
03		
02		AMP 2
01		BLANK VENT
04		
03		AMP 1
02		
01		UPS

RACK #1.1
SR-40-28

40		SDI PATCH BAY
39		
38		
37		
36		
35		
34		
33		
32		
31		
30		
29		
28		
27		
26		
25		
24		
23		
22		
21		
20		
19		
18		
17		4RU DRAWER
16		
15		
14		
13		4RU DRAWER
12		
11		
10		
09		2RU DRAWER
08		
07		2RU DRAWER
06		
05		
04		
03		
02		
01		
04		
03		
02		
01		

RACK #1.2
SR-40-28

5 R1 AV RACK ELEVATIONS
NTS

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477 Main Street, Suite 210-B, Monroe, CT 06468
Phone: 203-497-3064 DA-Technology.Com

AUDITORIUM MODIFICATIONS

THEATER DESIGN
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ISSUE DATE

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REFERENCE SHEET AV0.00 FOR ABBREVIATIONS, SYMBOLS, GENERAL NOTES & OTHER ADDITIONAL INFORMATION

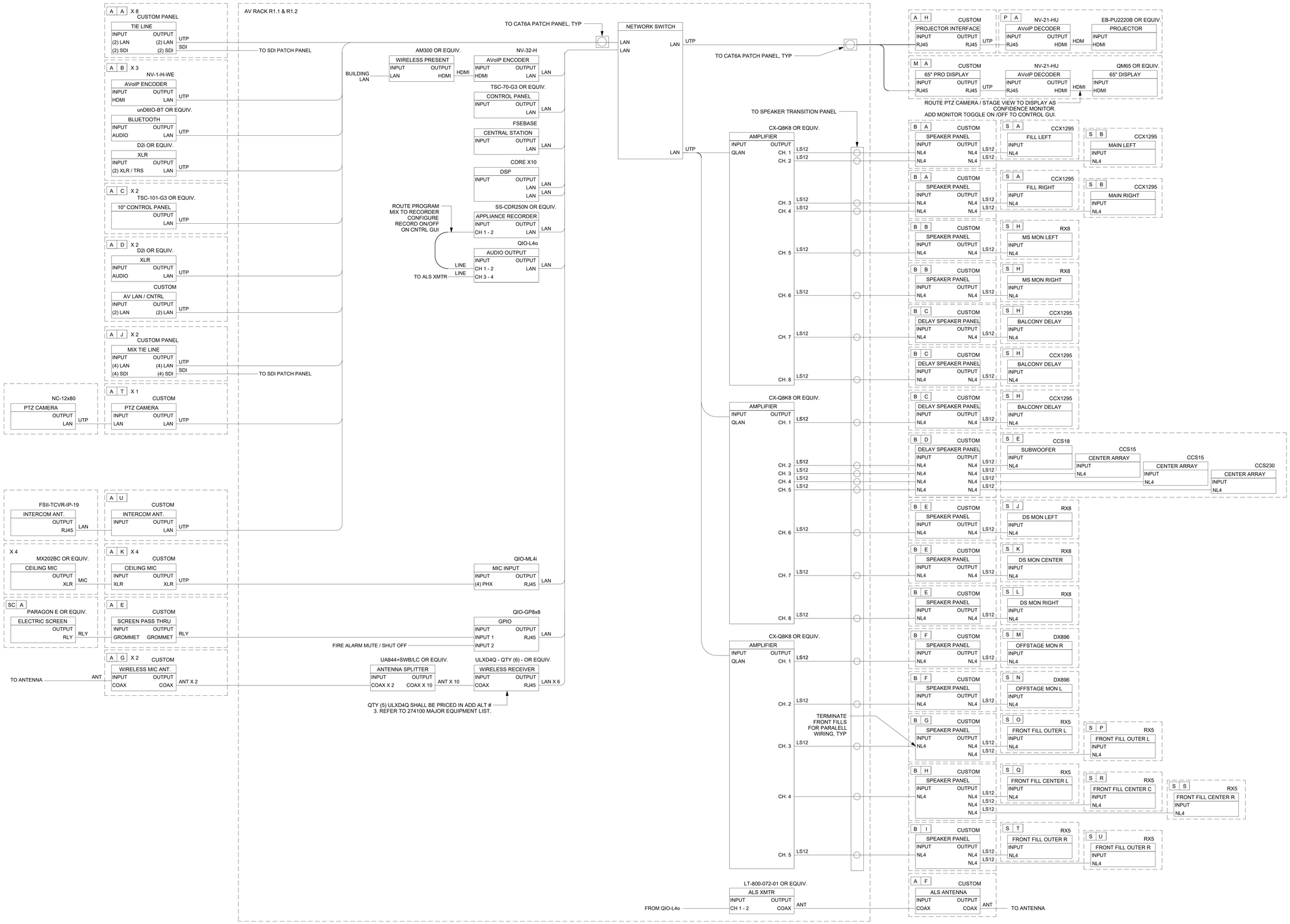
STAPLES HIGH SCHOOL

70 NORTH AVE,
WESTPORT, CT 06680

PROJECT NO.: Project Number
DRAWN BY: ND

AUDITORIUM ELEVATION

DRAWING NO.
AV200



1 AV Signal Flow Auditorium
NTS

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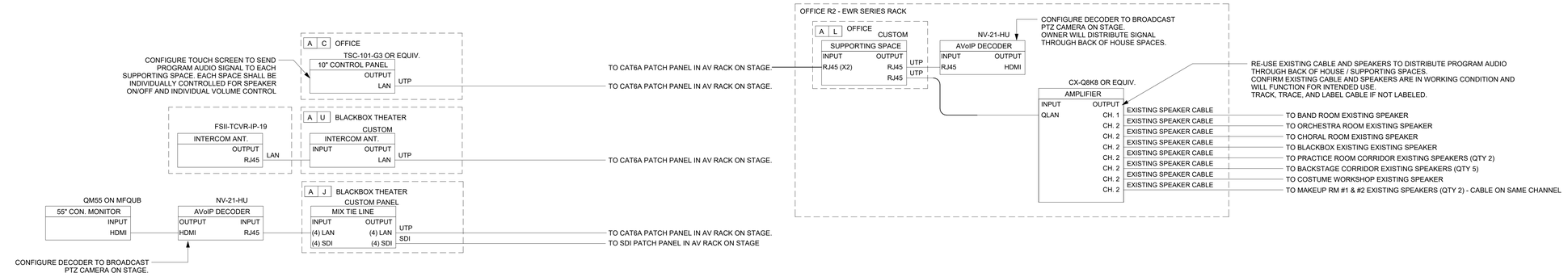
STAPLES HIGH SCHOOL

**70 NORTH AVE,
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PROJECT NO.: Project Number
DRAWN BY: ND

AUDIO VISUAL SIGNAL FLOW

DRAWING NO.
AV300



1 AV Signal Flow Add Alternate #1
NTS

2 AV Signal Flow Add Alternate #2
NTS

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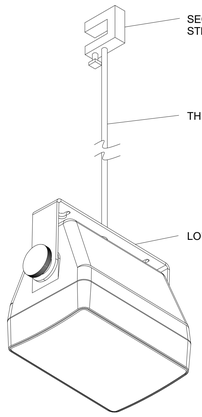
STAPLES HIGH SCHOOL

**70 NORTH AVE,
WESTPORT, CT 06680**

PROJECT NO.: Project Number
DRAWN BY: ND

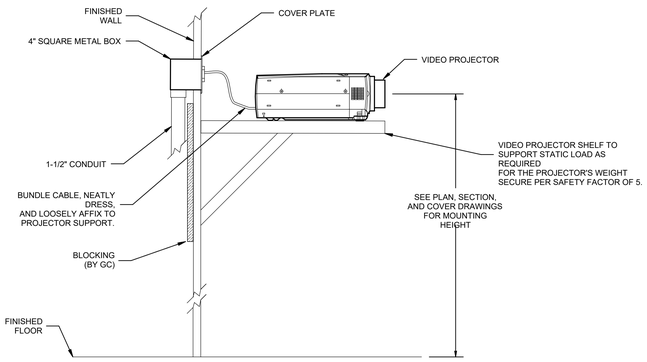
AUDIO VISUAL SIGNAL FLOW

DRAWING NO.
AV301



NOTE:
CONCEPT ONLY - AUDIO VIDEO CONTRACTOR RESPONSIBLE FOR DETERMINING FINAL MOUNTING METHOD AND REQUIRED MOUNTING ACCESORIES BASED ON CEILING TYPE AND INSTALLATION REQUIREMENTS.

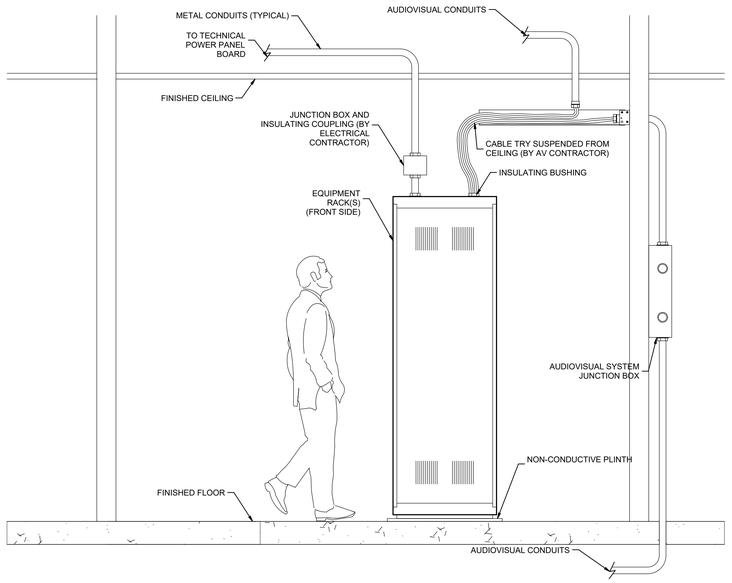
5 TYPICAL LOUDSPEAKER MOUNTING - THREADED ROD
NTS



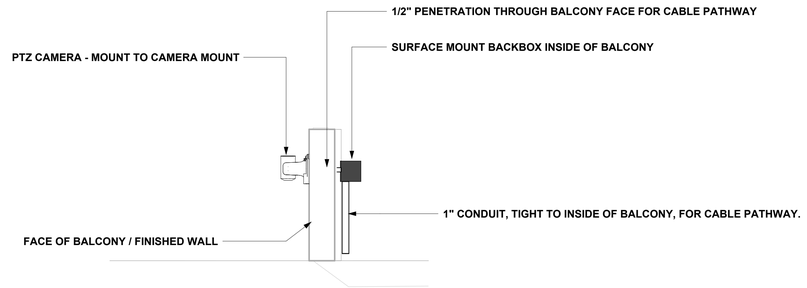
NOTES:
1. ELECTRICAL CONTRACTOR PROVIDES, INSTALLS, AND TERMINATES AC DUPLEX OUTLET BOX AND ALL CONDUIT. CONDUIT ROUTING SHOWN IN DETAIL IS DIAGRAMMATIC.
2. G.C. PROVIDES AND INSTALLS SHELF TO MOUNT PROJECTOR TO. VERIFY THE SHELF CAN ACCOMODATE THE WEIGHT OF ALL THE AV EQUIPMENT BEING MOUNTED TO IT BEFORE INSTALLATION.
3. AV CONTRACTOR PROVIDES AND INSTALLS VIDEO PROJECTOR, LENS WIRING, PROJECTOR MOUNT, AND MOUNTING PLATE.
4. REFER TO AV SECTION DRAWINGS FOR THROW DISTANCE. VERIFY IN FIELD FOR EXACT DISTANCE FROM PROJECTOR TO SCREEN SURFACE TO CONFIRM APPROPRIATE LENS. NOTIFY CONSULTANTS AND ARCHITECT IF DIMENSION DOES NOT ALIGN WITH AVAILABLE LENSES.

4 SHELF MOUNT PROJECTOR DETAIL
NTS

NOTES:
1. EQUIPMENT RACK(S) MUST BE INSULATED FROM ALL CONDUIT, RACEWAYS, AND BUILDING METAL. PROVIDE A COPPER METAL BUSBAR IN EACH EQUIPMENT RACK. BOND BUSBAR TO EQUIPMENT RACK AND INCOMING ISOLATED GROUND FROM TECHNICAL POWER PANEL BOARD.
2. PROVIDE INSULATING COUPLING, AS INDICATED ON AC POWER CONDUITS, FOR ANY CONDUITS FEEDING EQUIPMENT RACKS PER NEC 250.96(B).
3. CONDUIT MAY BE USED IN PLACE OF CABLE TRAY FOR ROUTING CABLES BETWEEN WALL MOUNTED JUNCTION BOX AND THE EQUIPMENT RACK.
4. PROVIDE INSULATING COUPLING TO PROTECT EXPOSED CABLES ENTERING RACK.
5. FASTEN EQUIPMENT RACKS TO PLINTH. FASTEN PLINTH TO FLOOR. MAINTAIN ELECTRICAL ISOLATION OF RACK FROM FLOOR, CABLE TRAY, AND ANY INCOMING CONDUITS.
6. AUDIOVISUAL CONTRACTOR PROVIDES JUNCTION BOX WITH EQUIPMENT RACKS FOR TERMINATING AC POWER CIRCUITS. AUDIOVISUAL CONTRACTOR TERMINATES RACK-MOUNT AC RECEPTACLES IN JUNCTION BOX. ELECTRICAL CONTRACTOR TERMINATES AC CIRCUITS IN JUNCTION BOX AND MAKES FINAL CONNECTIONS. AC POWER TO ENTER EQUIPMENT RACKS AT LOCATION THAT AC RECEPTACLES ARE MOUNTED WITHIN RACKS.
7. RACK TO BE LOCATED TO PROVIDE CLEARANCE AT FRONT, REAR AND AT LEAST ONE SIDE. REFER TO PLAN DRAWINGS FOR EXACT DIMENSIONS. PREFERRED MINIMUM IS 3'-0" CLEAR



1 AV CABINET DETAIL
NTS



3 TYPICAL PTZ CAMERA INSTALLATION
1" = 1'-0"

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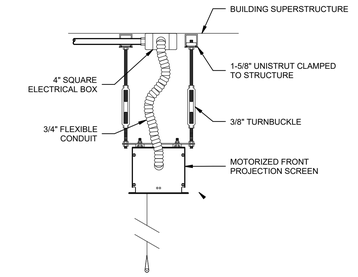
STAPLES HIGH SCHOOL

**70 NORTH AVE,
WESTPORT, CT 06680**

PROJECT NO.: Project Number
DRAWN BY: ND

AUDIO VISUAL DETAILS

DRAWING NO.
AV400

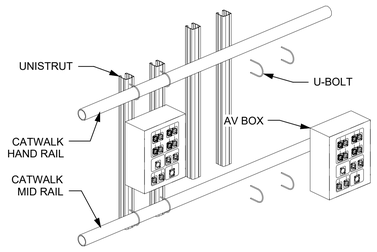


5 PROJECTION SCREEN DETAIL
NTS

NOTES:
1. COORDINATE REQUIREMENTS WITH ELECTRICAL DRAWINGS.
2. EXACT FLOOR BOX CONFIGURATION VARIES DEPENDING ON MANUFACTURER. COORDINATE EXACT DIMENSIONS AND LAYOUT WITH MODEL BEING SUPPLIED.

4 FLOOR BOX DETAIL
NTS

CONCEPT ONLY; CONTRACTOR TO SUBMIT SHOW DRAWINGS & COORDINATE WITH FIELD CONDITIONS.



U-BOLT UNISTRUT TO CATWALK HAND RAIL AND MID RAIL.
ATTACH AV BOX TO UNISTRUT WITH AT LEAST 4 FASTENERS TO UNISTRUT. DO NOT ALLOW CONDUIT TO CARRY AV BOX LOAD.
SEE PANELS LABELED AS "CTWLK" WITHIN AUDITORIUM FOR CATWALK MOUNTED EQUIPMENT. COORDINATE HEIGHT IN FIELD WITH AV CONSULTANT AND THEATER CONSULTANT.

6 TYPICAL RAIL MOUNT
NTS

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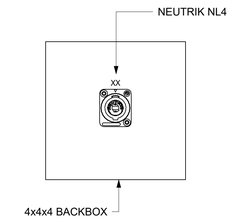
STAPLES HIGH SCHOOL

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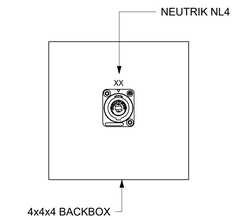
PROJECT NO.: Project Number
DRAWN BY: ND

AUDIO VISUAL DETAILS

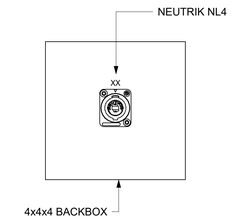
DRAWING NO.
AV401



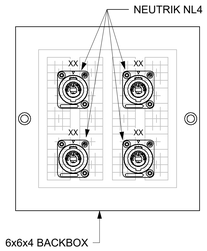
20 PANEL B-G SPEAKER PANEL
6" = 1'-0"



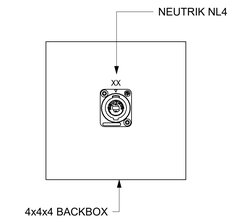
19 PANEL B-F SPEAKER PANEL
6" = 1'-0"



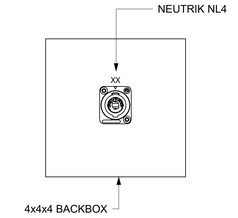
18 PANEL B-E SPEAKER PANEL
6" = 1'-0"



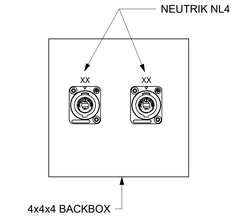
17 PANEL B-D SPEAKER PANEL
6" = 1'-0"



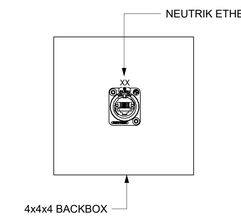
16 PANEL B-C DELAY SPEAKER PANEL
6" = 1'-0"



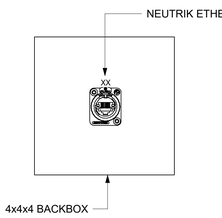
15 PANEL B-B SPEAKER PANEL
6" = 1'-0"



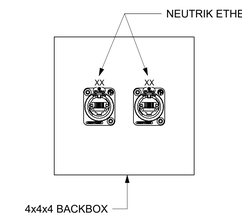
14 PANEL B-A SPEAKER PANEL
6" = 1'-0"



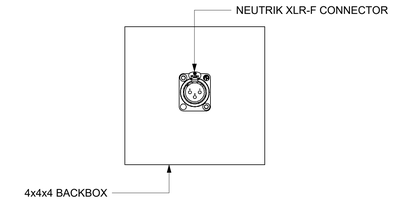
13 PANEL A-U INTERCOM ANTENNA PANEL
6" = 1'-0"



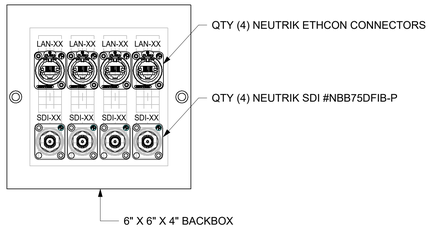
12 PANEL A-T PTZ CAMERA
6" = 1'-0"



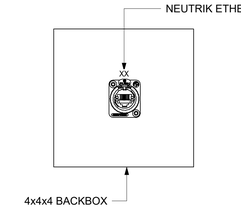
11 PANEL A-L SUPPORTING SPACE TIE LINE
6" = 1'-0"



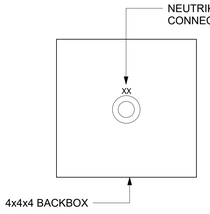
10 PANEL A-K CEILING MIC PANEL
6" = 1'-0"



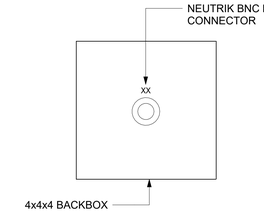
9 PANEL A-J TIE LINE
6" = 1'-0"



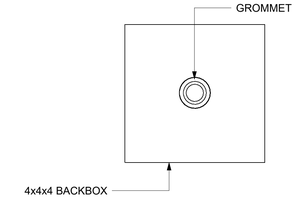
8 PANEL A-H PROJECTOR PANEL
6" = 1'-0"



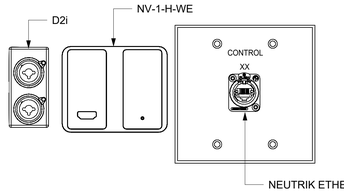
7 PANEL A-G WIRELESS MIC ANTENNA
6" = 1'-0"



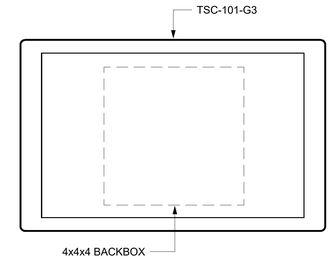
6 PANEL A-F ALS ANTENNA
6" = 1'-0"



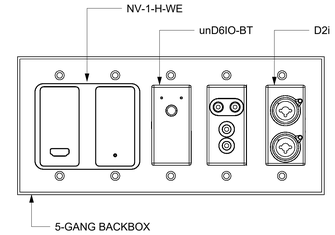
5 PANEL A-E SCREEN PANEL
6" = 1'-0"



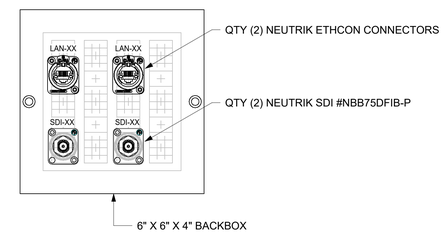
4 PANEL A-D AUDITORIUM FLOORBOX
6" = 1'-0"



3 PANEL A-C 10" CONTROL PANEL
6" = 1'-0"



2 PANEL A-B VIDEO, BLUETOOTH, AUDIO INTERFACE
6" = 1'-0"



1 PANEL A-A TIE LINE
6" = 1'-0"

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STAPLES HIGH SCHOOL

**70 NORTH AVE,
WESTPORT, CT 06680**

PROJECT NO.: Project Number

DRAWN BY: ND

AUDIO VISUAL PANELS

DRAWING NO.
AV402