CARY ACADEMY

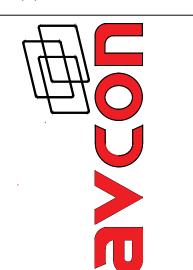




CAS-0017

		DRAWING INDEX				
SHEET TITLE	SHEET DISCRIPTION	ISSUE DATE		UPI	DATES	
AVS-00.00.01	TITLE PAGE	9/29/2021				
AVS-00.00.02	PINOUTS PAGE	9/29/2021				
AVS-00.00.03	LEGEND PAGE	9/29/2021				
AVS-00.00.04	NOTES & RESPONSIBILITIES PAGE	9/29/2021				
AVS-01.01.01	CONF. ROOM 230	9/29/2021	10/1/2021	10/7/2021		
AVS-02.01.01	CONF. ROOM 207	9/29/2021	10/1/2021	10/7/2021		

THIS DRAWING DATA SHALL NOT BE DUPLICATED USED OR DISCLOSED TO OTHERS FOR PROCUREMENT OR OTHER WRITTEN PERMISSION OF AVCON, INC.



DEMY

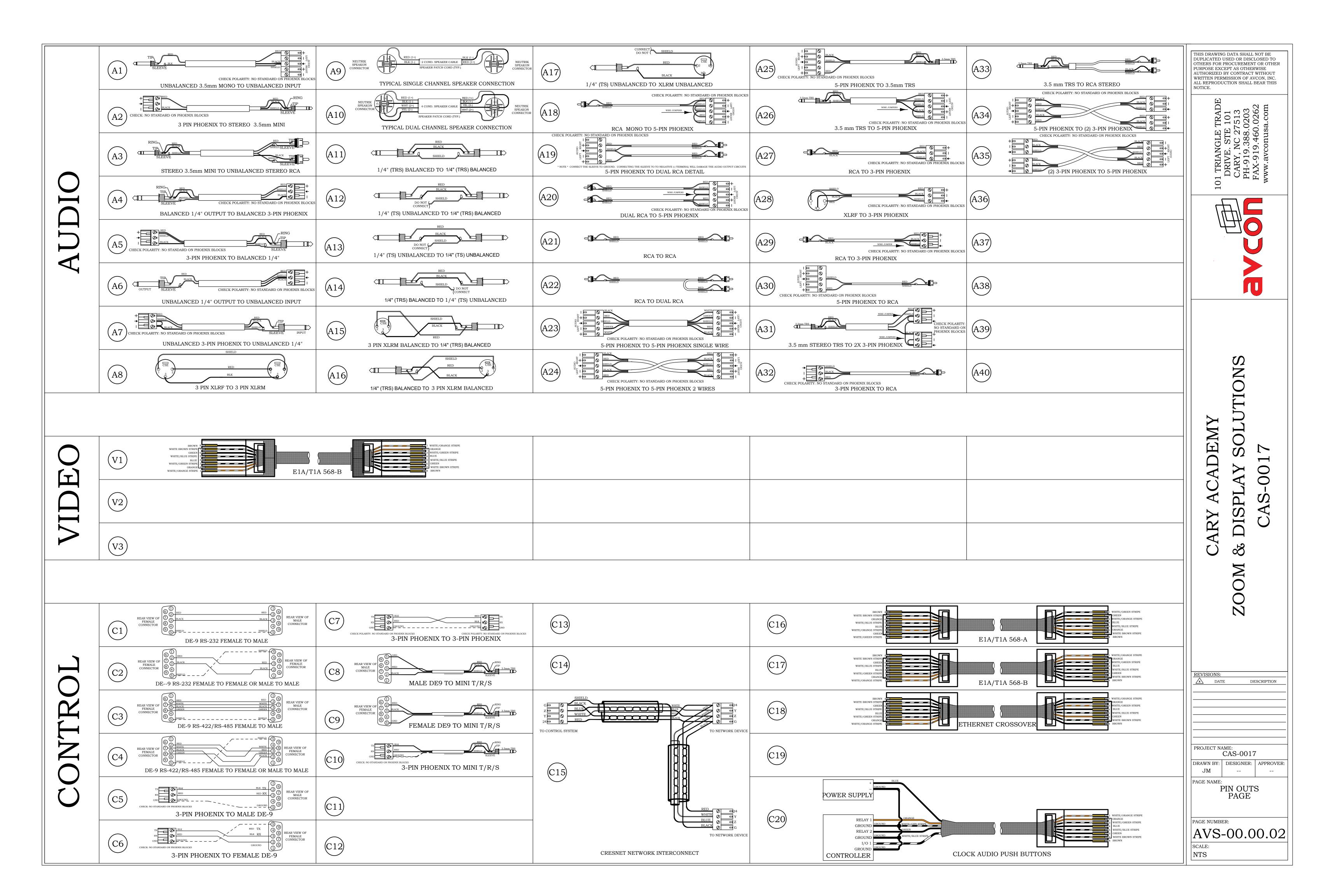
REVIS	IONS:	
\triangle	DATE	

PROJECT NAME:
CAS-0017

DRAWN BY: DESIGNER: APPROVER:

PAGE NAME: AV COVER PAGE

AV-00.00.01



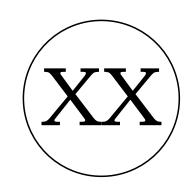
SCHEMATICS LEGEND

CABLE FLAG DEVICE I.D./PORT # PAGE

PINOUT CALLOUT

TO/FROM OFE

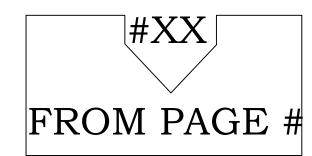
EQUIPMENT



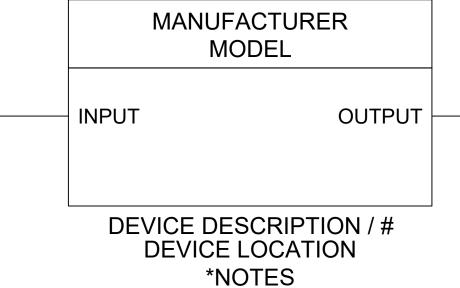
DEVICE CONTINUES

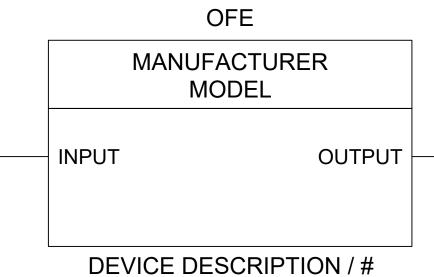
TO PAGE #

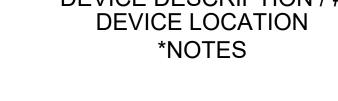
CONTINUED DEVICE

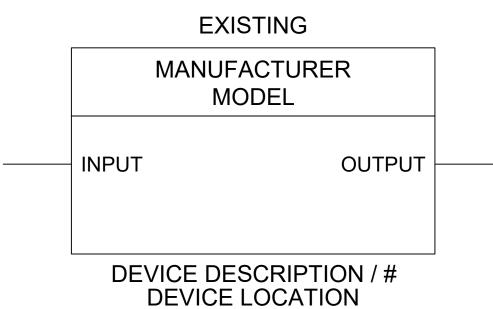


DEVICE ID



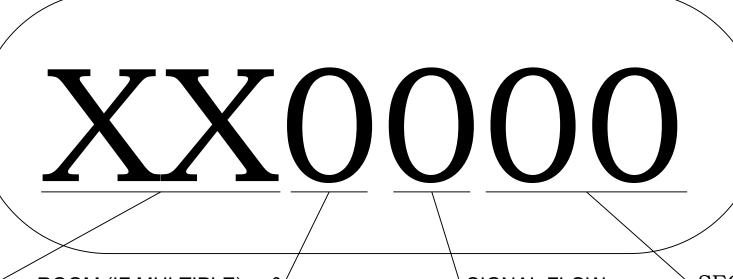






*NOTES

WIRE NUMBER LABELING GUIDE



SIGNAL TYPE ROOM (IF MULTIPLE) &/
FIELD ADDED NUMBERS

SIGNAL FLOW

SEQUENTIAL NUMBERING

- CABLE NUMBERS SHALL BE 4 DIGITS IN LENGTH (0000-9999). THE NUMBERING SCHEME FLOWS FROM LEFT TO RIGHT. TYPICALLY, EACH CABLE NUMBER FOLLOWS THE INPUT/OUTPUT OF THE DEVICE IN A LOGICAL ORDER.
- THE THOUSAND DIGITS WILL BE USED FOR SYSTEMS WITH MULTIPLE ROOMS THAT SHARE A RACK LOCATION AND/OR EQUIPMENT.
- THE NINE-THOUSAND DIGIT WILL BE RESERVED FOR FIELD TECHNICIANS TO ADD NUMBERS ON SITE.

		SIGNAL TYPE
ABBREVIATION	TYPE	DESCRIPTION
AA	ANALOG AUDIO	REFERS TO LINE LEVEL AUDIO. EITHER LOW IMPEDANCE OR HIGH IMPEDANCE.
AV	ANALOG VIDEO	REFERS TO ANALOG VIDEO SUCH AS COMPOSITE, COMPONENT, VGA, ETC.
AX	ANALOG EXTENDED	REFERS TO ALL ANALOG VIDEO THAT ARE TRANSMITTED VIA CATEGORY CABLING
CN	CONTROL	REFERS TO CONTROL VIA SERIAL, RELAYS, I/O, CRESNET, ETC.
DA	DIGITAL AUDIO	REFERS TO ALL DIGITAL AUDIO SUCH AS DANTE, S/PIDF, ETC.
DV	DIGITAL VIDEO	REFERS TO ALL DIGITAL VIDEO SUCH AS HDMI, DISPLAY PORT, DVI, HD-SDI, ETC.
DX	DIGITAL EXTENDED	REFERS TO ALL DIGITAL VIDEO THAT ARE TRANSMITTED VIA CATEGORY CABLING SUCH AS DM, HDBT, FIBER, ETC.
LN	LAN	REFERS TO CONNECTIONS PERTAINING TO DATA, VOIP, ETC.
MC	MIC CONNECTION	REFERS TO ALL MICROPHONE AND MICROPHONE LEVEL SIGNALS
PH	POWER HIGH	REFERS TO ALL POWER THAT IS CONSIDERED HIGH VOLTAGE
PL	POWER LOW	REFERS TO ALL POWER THAT IS CONSIDERED LOW VOLTAGE
RF	RADIO FREQUENCY	REFERS TO CONNECTIONS THAT TRANSMIT OR RECEIVE RADIO WAVES SUCH AS WIRELESS MICROPHONES, ANTENNAS, SATELLITE TV, BROADCAST TV, CABLE TV, ETC.
SP	SPEAKER	REFERS TO ALL SPEAKER LEVEL CONNECTIONS
UB	USB	REFERS TO UNIVERSAL SERIAL BUS CABLING
UX	UB EXTENDED	REFERS TO USB THAT IS TRANSMITTED VIA CATEGORY CABLING

THIS DRAWING DATA SHALL NOT BE DUPLICATED USED OR DISCLOSED TO OTHERS FOR PROCUREMENT OR OTHER PURPOSE EXCEPT AS OTHERWISE AUTHORIZED BY CONTRACT WITHOUT WRITTEN PERMISSION OF AVCON, INC. ALL REPRODUCTION SHALL BEAR THIS

ARY, NC 27513 H-919.388.0203 XX-919.460.0262 W.avconusa.com



CARY ACADEMY OM & DISPLAY SOLUTION CAS-0017

REVISIONS:		
DAT DAT	E DE	SCRIPTION
-		
PROJECT NA		_
	CAS-0017	7
DRAWN BY:	DESIGNER:	APPROVE
JM		
PAGE NAME:		

SCHEMATIC LEGEND AND WIRE NUMBER LABELING GUIDE

AVS-00.00.03

SCALE: NTS

GENERAL NOTES

GENERAL ELECTRICAL NOTES:

- 120VAC SERVICES FOR EQUIPMENT RACKS AND VIDEO PROJECTORS TO SHARE THE SAME PHASE
- ALL TELE/DATA, NETWORK AND 120VAC CONVENIENCE OUTLETS INDICATED ON THESE DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. REFER TO COMMUNICATIONS AND POWER PLANS FOR FULL TELE/DATA, NETWORK AND ELECTRICAL REQUIREMENTS.
- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING CONTROL STATION LOCATIONS, 120VAC REQUIREMENTS AND LIGHTING REQUIREMENTS.
- COORDINATE FINAL LOCATIONS OF SWITCHES, AV-PLATES AND J-BOXES WITH WALL TREATMENT AND SURFACES.
- ANY DISCREPANCIES OCCURRING BETWEEN THESE DOCUMENTS AND ELECTRICAL DOCUMENTS ARE TO BE REFERRED TO THE ARCHITECT.
- ALL AC OUTLETS INDICATED ON THESE DRAWINGS ARE FOR AV PURPOSES. FOR ALL OTHER AC NEEDS, REFER TO POWER PLANS.
- FINAL LOCATION AND COORDINATION OF ALL FLOOR BOXES TO BE VERIFIED IN FIELD WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO ELECTRICAL DRAWINGS FOR ALL POWER CIRCUITRY.
- UNLESS SPECIFIED, JUNCTION BOXES SHALL BE SIZED AS REQUIRED BY THE ELECTRICAL CONTRACTOR.
- AV DRAWINGS, COMMUNICATIONS DRAWINGS, POWER PLAN DRAWINGS AND ARCHITECTURAL DRAWINGS SHOULD BE CAREFULLY REVIEWED SIMULTANEOUSLY TO AVOID UNDER-COUNTING OR OVER-COUNTING DEVICES AND MIS-LOCATING DEVICES.
- QUANTITIES GIVEN ON AV DETAIL PAGES AND AV ROOM SCHEDULE DRAWING (IF APPLICABLE)
 MUST BE CONFIRMED BY EACH DISCIPLINE WHEN REVIEWING THE AV DRAWINGS. THE
 QUANTITIES GIVEN ARE PRELIMINARY AND MAY NOT REFLECT ALL LAST MINUTE CHANGES.

 ANY DISCREPANCIES SHOULD BE REVIEWED WITH THE OWNER

GENERAL LIGHTING NOTES FOR VIDEO CONFERENCING APPLICATIONS:

- INDIRECT FLORESCENT LIGHTING FIXTURES, CAPABLE OF PROVIDING EVEN ILLUMINATION WITHOUT SHADOWS IS SUGGESTED.
- AN EVEN 70 FOOT CANDLES REQUIRED AT 4'-0" ABOVE FINISHED FLOOR.
- LAMP COLOR TEMPERATURE OF 3500 KELVIN RECOMMENDED.
- WINDOWS WITHOUT TREATMENT WHERE APPLICABLE MAY CAUSE ISSUES BY ALLOWING A "MIX" OF LIGHTING COLOR TEMPERATURE FROM HALLWAY OR OUTSIDE LIGHTING.

GENERAL ACOUSTICAL NOTES:

- ROOM AMBIENT FROM ALL IN-ROOM OR EXTERNAL NOISE SOURCES NOT TO EXCEED 40dB A-WEIGHTED.
- AN OVERALL DESIGN GOAL FOR AN NC-25 TO NC-30 NOISE CRITERIA RATING IS DESIRABLE.
- ACOUSTICAL PANELS OR "SOUND-SOAK" WALL TREATMENTS SHOULD BE CONSIDERED FOR ONE WALL SURFACE.
- ACOUSTICAL PROPERTIES OF THE CEILING TILES, CARPET AND CARPET PAD SHOULD BE CONSIDERED DURING SELECTION.
- TO PREVENT SOUND LEAKAGE INTO THESE ROOMS FROM ADJOINING SPACES, ALL WALLS SHOULD EXTEND TO THE DECKING ABOVE. ALL PENETRATIONS LEAVING THE SPACE SHOULD BE SEALED AS REQUIRED. THE SPACE ABOVE THE CEILING TILES MAY ALSO NEED CONSIDERATION AND TREATED WITH FIBERGLASS BATTING.
- ACOUSTICAL REFLECTIONS OFF ALL GLASS SURFACES SHOULD BE ADDRESSED WITH APPROPRIATE WINDOW TREATMENTS.
- MAXIMUM REVERBERATION TIME SHOULD NOT EXCEED .6 SECONDS FOR ALL ROOMS.
- 8) RECOMMENDED SOUND TRANSMISSION CLASS FOR WALL CONSTRUCTION METHOD TO BE OF A STC-45 RATING.

RESPONSIBILITY SCHEDULE

S	UPP	LIE	DΒ	Y:	IN	STA	LLE	D E	3Y:		
G.C.	G.C.	E.C.	r/D.C.	CLIENT	AV C.	G.C.	E.C.	r/D.C.	CLIENT	AV C.	\ \ \ \

CEILING MOUNTED EQUIPMENT

QUIPMENT HARD POINTS:						X	X
ROJECTION SCREENS:							X
ROJECTOR/DISPLAY MOUNTS:							X
ROJECTOR/DISPLAY:							\overline{X}
PEAKER HARDWARE & BACKBOX:							\overline{X}
EILING MICROPHONES:							$\overline{\mathbf{X}}$

WALL MOUNTED EQUIPMENT

ALL SPECIFIED BLOCKING:							\times
FLAT PANEL MOUNTS:						X	$\overline{\times}$
FLAT PANEL DISPLAYS:						X	\geq
PROGRAM SPEAKERS:							$\overline{\times}$
CAMERAS:							$\overline{\times}$
PROJECTION SCREENS:							$\overline{\ \ }$

ELECTRICAL (FOR AV USE)

	— — · · · · · · · · · · · · · · · · ·		l
	ALL AV ELECTRICAL OUTLETS AND JUNCTION BOXES:		X
Ξ)	AV ELECTRICAL CONDUITS & PULL STRINGS:		X
	FLOOR BOX AND ACCESSORIES:	$\overline{\langle}$	X
	AV LOW VOLTAGE CABLES:		X
	ALL AV CONNECTORS:		X
	ALL AV WALL PLATES:		

VOICE & DATA NETWORK (FOR AV USE)

ALL TELECOMMUNICATION PLATES:	\searrow
IP/NETWORK CONFIGURATION FOR AV CONTROL:	
IP/NETWORK CONFIGURATION FOR VIDEO CONFERENCING:	
VoIP/SIP CONFIGURATION FOR AUDIO CONFERENCING:	
POTS/ANALOG TELEPHONE SERVICE & TERMINATION:	
WIRELESS ACCESS POINT FOR AV:	
ALL COAX RF PLATES/CABLE/CONNECTIONS:	

LIGHTING DIMMING SYSTEMS

DIGITING DIMINING STOLDING						
LIGHTING DIMMING EQUIPMENT:						\ _
LIGHTING DIMMING LVC FOR AV INTERFACE:						\ _
LIGHTING DIMMING LVC PROGRAMMED:						\ _

MOTORIZED DRAPES/SHADES

					_	
DRAPERY/SHADE MOTOR LVC CABLE TERMINATED:						\geq
DRAPERY/SHADE MOTOR LVC:						\geq
DRAPERY/SHADE MOTOR:						\geq

PERMANENT FURNISHINGS

MILLWORK/TABLE PENETRATIONS & MODIFICATIONS:				
CREDENZA VENTILATION:				
EQUIPMENT RACKS FOR MILLWORK:				
AV EQUIPMENT RACKS				

THIS DRAWING DATA SHALL NOT BE DUPLICATED USED OR DISCLOSED TO OTHERS FOR PROCUREMENT OR OTHER PURPOSE EXCEPT AS OTHERWISE AUTHORIZED BY CONTRACT WITHOUT WRITTEN PERMISSION OF AVCON, INC. ALL REPRODUCTION SHALL BEAR THIS

TRIANGLE TRADE ORIVE. STE 101 CARY, NC 27513 H-919.388.0203



CARY ACADEMY OM & DISPLAY SOLUTION CAS-0017

REVISIONS:						
\overline{x}	DATE	DESCRIPTION				

CAS-0017

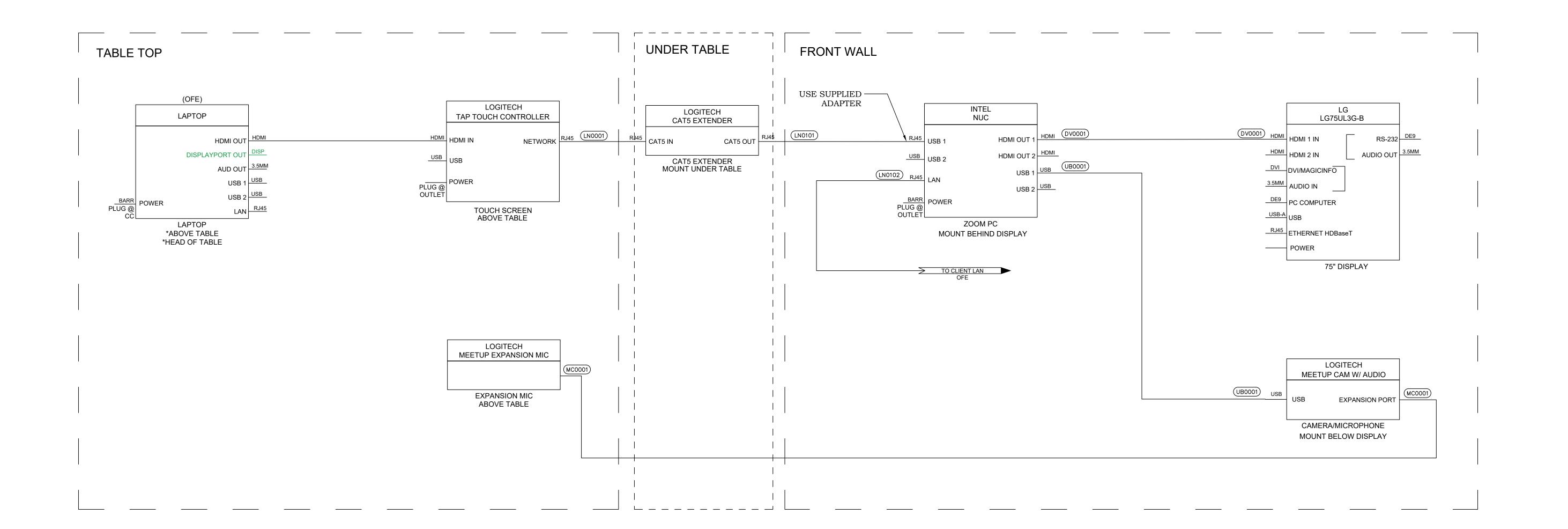
DRAWN BY: DESIGNER: APPROVE

JM -- --

PAGE NAME:
GENERAL NOTES
AND
RESPONSIBILITY
SCHEDULE

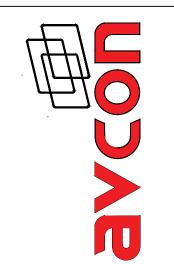
| AV-00.00.04

SCALE



THIS DRAWING DATA SHALL NOT BE DUPLICATED USED OR DISCLOSED TO OTHERS FOR PROCUREMENT OR OTHER PURPOSE EXCEPT AS OTHERWISE AUTHORIZED BY CONTRACT WITHOUT WRITTEN PERMISSION OF AVCON, INC. ALL REPRODUCTION SHALL BEAR THIS NOTICE.

101 TRIANGLE TRADE DRIVE. STE 101 CARY, NC 27513 PH-919.388.0203 FAX-919.460.0262



ZOOM & DISPLAY SOLUTIONS CAS-0017

2021 ISS 2021 ISS AME:	SUED FOR REVI SUED FOR REVI SUED FOR REVI	IEW
72021 ISS		
AME:	SUED FOR REVI	IEW
CAS-00	17	
DESIGNE	R: APPROV	/ER
	DESIGNE	

PAGE NUMBER:

AVS-01.01.01

SCALE: NTS

THIS DRAWING DATA SHALL NOT BE DUPLICATED USED OR DISCLOSED TO OTHERS FOR PROCUREMENT OR OTHER PURPOSE EXCEPT AS OTHERWISE AUTHORIZED BY CONTRACT WITHOUT WRITTEN PERMISSION OF AVCON, INC. ALL REPRODUCTION SHALL BEAR THIS NOTICE.

O1 TRIANGLE TRADE DRIVE. STE 101 CARY, NC 27513 PH-919.388.0203 FAX-919.460.0262



CARY ACADEMY OOM & DISPLAY SOLUTIONS

REVISIONS:								
<u> </u>	DATE		DESCRIPTION					
<u> </u>	09/27/2021		ISSUED FOR REVIEW					
<u> </u>	10/01/2021		ISSUED FOR REVIEW					
<u> 2</u>	10/07/	2021	ISSUEI	O FOR REVIEW				
PROJECT NAME:								
CAS-0017								
RAWN BY:		DESIGNER:		APPROVER:				
J:	M							
AGE NAME:								
CONF. ROOM 207								
AV SCHEMATICS								

PAGE NUMBER:

AVS-02.01.01

SCALE: