

## ADDENDUM

PROJECT NAME: UTM Robotics Laboratory Environment Building

COMPANY: Baird Sampson Neuert Architects

ATTENTION: Andrea Macecek

PROJECT NO.: 21352.002.AV.001

DATE: 2024-12-18

ADDENDUM NO.: AV-01

ISSUED BY: Sepide Rafiei

The following amendments are hereby made as part of the Contract Documents. The following revisions and/or additions shall be made to contract documents and the cost shall be included in the Tender Price.

### 1.0 CLARIFICATION

**1.1 Question: Type 3 – 1.4.2.1.5 Recording controls - The room does not have a recorder included and if recording is desired through the PC, please note that the control processor will not be able to control the PC. Please advise how the desired functionality can be achieved.**

Response: Recording controls are not required.

**1.2 Question: There are three options for Legrand Forum™ Lectern: 42", 60" and 72", please confirm.**

Response: See exact model number provided below.

### 2.0 SPECIFICATION

#### 2.1 Refer to Specification Section 27 41 00.00 Audiovisual System Scope of Work

2.1.1 Remove sub-section 1.2.2.10

2.1.2 Revise sub-section 1.3.6 to be read:

- .1 Provide a USB web-conference bar with table-top touch panel, integrated microphone, speakers and camera to capture video of local participants. This shall also include a wall mount system and the device shall be connected to the in-room computer.

2.1.3 Delete sub-section 1.4.2.1.5.

2.1.4 Revise sub-section 1.4.2.2 to be read:

- .1 Provide an audio plate to allow users to connect devices. The plate shall include presentation cables in 12' length, with connectivity for:
  - .1 3.5 mm (Line Level input)
  - .2 XLR-F (Mic Level input)
  - .3 XLR-M (Level output)

2.1.5 Revise sub-section 1.4.2.7.2 to be read:

- .1 Provide a mount that shall support a monitor, touchscreen (with interface) and keyboard.

2.1.6 Revise sub-section 1.5.2 to be read:



- .1 A dedicated in-room computer with a keyboard and mouse, shall be supplied by the Owner and installed by the AV Contractor. Provide a computer monitor with pull out wall-mounting solution.

2.1.7 Add sub-section 2.8.5 to be read:

- .1 DM Transmitter shall have independent inputs for HDMI and USB-C.

2.1.8 Revise sub-section 2.17.2 to be read:

- .1 Audio input plate shall have dual XLR & 3.5mm inputs.

2.1.9 Delete section 2.25 (Network Switch).

2.1.10 Revise section 2.27 – TEACHING STATION PODIUM to read:

- .1 Teaching Station Podium shall be shark gray in colour.
- .2 Confirm left or right orientation for gooseneck microphone position during shop drawings.
- .3 Typical device shall be Middle Atlantic Viewpoint Q-198679.

## **2.2 Refer to Specification Section 27 41 16.10 Sound System General Requirements**

2.2.1 Revise section 2.1.1 to be read:

- .1 Acceptable DSP brand is: BIAMP. Any other brand/model must be approved by AV Consultant.

## **2.3 Refer to Specification Section 27 41 16.11 Displays**

2.3.1 Revise section 2.1.1 to be read:

- .1 Acceptable brand is: Samsung. Any other brand/model must be approved by AV Consultant.

## **2.4 Refer to Specification Section 27 41 16.12 Projection Systems**

2.4.1 Revise section 2.1.1 to be read:

- .1 Acceptable manufacturer is Epson. Any other brand/model must be approved by AV Consultant.

## **3.0 DRAWINGS**

### **3.1 Refer to AV001 – AV LEGENDS, NOTES & COORDINATION MATRIX (included herein)**

3.1.1 Detail 3 – AV Coordination Matrix

- .1 Revise network drops for symbols shown.

### **3.2 Refer to AV500 – AV FUNCTIONALS (included herein)**

3.2.1 Remove network switch and provide Owner network drops directly to devices.

3.2.2 Provide connection between table-top touch panel to presentation switcher.

### **3.3 Refer to AV501 – AV FUNCTIONALS (included herein)**

3.3.1 Detail 1:

- .1 Add Owner network drops as per drawings.



.2 Remove connectivity between Neat Pad and conference Bar

.3 Remove connectivity between BP & Display.

3.3.2 Detail 2:

.1 Add Owner network drops as per drawings.

### **3.4 Refer to AV502 – AV FUNCTIONALS (included herein)**

3.4.1 Add second XLR connection to audio plate and revise connectivity.

3.4.2 Add Note 1, to describe connectors required.

3.4.3 Add Owner network drops as per drawings.

END OF AUDIO VISUAL ADDENDUM

AV COORDINATION MATRIX													
AUDIOVISUAL				ELECTRICAL								COMMUNICATION	MECHANICAL
DEVICE DETAILS				REQUIREMENTS						RECEPTACLES		LAN DROPS FOR OWNER NETWORK	HEAT LOAD
SYMBOL NAME	SYMBOL	ID	MOUNTING HEIGHT (TO CENTRE LINE)	AV BACKBOX/MUDRING SIZE	BACKBOX/MUDRING MOUNTING HEIGHT	VOLTAGE [V]	CURRENT [A]	UNIT POWER [W]	GROUND TYPE	TYPE	QUANTITY		UNIT HEAT [BTU]
65" WALL MOUNT FLAT PANEL DISPLAY		FPD1	1625mm (64") AFF	(1)2 GANG AV MUDRING	1830mm (72") AFF	120	2	240	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	818.88
32" WALL MOUNT FLAT PANEL DISPLAY		FPD2	1625mm (64") AFF	(1)2 GANG AV MUDRING	1830mm (72") AFF	120	1	120	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	409.44
SHORT THROW PROJECTOR		PROJ	2685mm (106") AFF	(1)2 GANG AV MUDRING	2685mm (106") AFF	120	4	480	NORMAL	5-15R	(1)QUAD	-	1637.76
WALL MOUNT PTZ CAMERA		CAM1	2135mm (84") AFF	(1)2 GANG AV MUDRING	2135mm (84") AFF	-	-	-	-	-	-	(1)NETWORK DROPS	-
CEILING MOUNT PTZ CAMERA		CAM2	AT FINISHED CEILING	-	-	-	-	-	-	-	-	-	-
FLOORBOX TABLE MONUMENT		FB1	AT FINISHED FLOOR	(1)2 GANG OPENING AT FLOORBOX	AT FINISHED FLOOR	120	1	120	NORMAL	5-15R	(1)DUPLEX	(2)NETWORK DROPS	409.44
PODIUM		FB2	AT FINISHED FLOOR	(1)4 GANG OPENING AT FLOORBOX	AT FINISHED FLOOR	120	20.00	2400	ISOLATED	5-20R	(2)DUPLEX	(4)NETWORK DROPS	5118
WALL MOUNT BUTTON CONTROL PANEL		BP	AT SWITCH HEIGHT	(1)1 GANG AV MUDRING	AT SWITCH HEIGHT	-	-	-	-	-	-	(1)NETWORK DROPS	-
WIRELESS MIC ANTENNA		ANT1	AT FINISHED CEILING	(1)1 GANG AV BACKBOX	AT FINISHED CEILING	-	-	-	-	-	-	-	-
WIRELESS ASSISTIVE LISTENING SYSTEM ANTENNA		ALS	2135mm (84") AFF	(1)1 GANG AV BACKBOX	2135mm (84") AFF	-	-	-	-	-	-	-	-
CEILING MICROPHONE		MIC1	AT FINISHED CEILING	-	-	-	-	-	-	-	-	(1)NETWORK DROPS	-
PENDANT SPEAKERS		S1	AT FINISHED CEILING	(1)1 GANG AV BACKBOX	AT FINISHED CEILING	-	-	-	-	-	-	-	-
CREDENZA RACK		RACK1	AT RECEPTACLE HEIGHT	(1)PULL BOX SIZED TO CONDUIT REQUIREMENTS	AT RECEPTACLE HEIGHT	120	20.00	2400	ISOLATED	5-20R	(2)QUAD	(6)NETWORK DROPS	5118

3 AV COORDINATION MATRIX

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS AND SPECIFICATION. ANY DISCREPANCIES OR CONFLICT BETWEEN CONSULTANT'S DRAWINGS FOR A/Y SCOPE, SHALL BE REPORTED TO S+A IMMEDIATELY FOR CLARIFICATION.
- ALL EQUIPMENT AND CABLING HAVE BEEN SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR IS TO PROVIDE SHOP DRAWINGS FOR ALL HARDWARE, FIXTURES AND EQUIPMENT, FOR CONSULTANT'S APPROVAL PRIOR TO PURCHASE.
- ALL DEVICE LOCATIONS ARE SCHEMATIC ONLY. EXACT LOCATIONS SHOULD BE LOCATED USING ARCHITECTURAL OR INTERIOR DESIGN DRAWINGS. IF LOCATION IS UN-CLEAR A REQUEST FOR INFORMATION SHOULD BE ISSUED.
- CONTRACTOR TO ENSURE ALL WORK INSTALLATIONS ARE IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR MUST REVIEW SITE AND ENSURE ALL AV WORK WITHIN EXTENT IS INCLUDED IN THE AV CONTRACT.
- CARE AND ATTENTION SHALL BE MADE TO ALL DRAWING NOTES AND ITEMS INCLUDED WITHIN SPECIFICATION FOR INCLUSION IN SCOPE OF WORK. QUESTIONS OR CONCERNS SHALL BE REPORTED TO CONSULTANT BY THE BIDDER PRIOR TO AWARD FOR TENDER. OTHERWISE, SUCCESSFUL BIDDER ASSUMES ALL RESPONSIBILITY FOR INCLUDING ALL EQUIPMENT AND PROVISIONS AS STATED WITHIN THE DRAWING AND SPECIFICATION PACKAGE IN SCOPE OF WORK.
- ALL EQUIPMENT INSTALLATIONS SHALL ADHERE TO EXACT MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS. ANY INSTALLATIONS NOT MEETING CORRECT INSTALLATION METHODS AS OUTLINED BY THE MANUFACTURER SHALL BE RECTIFIED TO OPERATE AS INTENDED AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR TO COORDINATE ON SITE WITH OTHER TRADES FOR EXACT LOCATION AND MOUNTING HEIGHTS OF REQUIRED BACKBOXES AND RECEPTACLES FOR DISPLAYS, PROJECTORS, SPEAKERS AND OTHER AV EQUIPMENT. ALL RECEPTACLES SHALL BE CONCEALED BEHIND EQUIPMENT.
- ALL EQUIPMENT MUST BE SECURELY FASTENED AND INSTALLED TO SUPPORT WEIGHT, USER FUNCTION AND OPERATION. SCREENS SHALL BE ANCHORED TO STUDS AND SUPPORTED BY THREADED RODS AND CHAIN LINKS. PROJECTOR POLE MOUNTS AND DISPLAYS SHALL ALSO BE ANCHORED TO STUDS, AS REQUIRED TO SUPPORT EQUIPMENT FUNCTION. CONTRACTOR TO WARRANTY INSTALLATION FROM ANY IMPROPER INSTALLATION WITH NO EXPENSE TO THE USER.
- AV CONTRACTOR SHALL INCLUDE FOR ALL MISCELLANEOUS CONNECTORS, SIGNAL CONVERTERS, SIGNAL REPEATERS, EXPANSION MODULES, POLE EXTENSIONS, SHELVING, MOUNTING HARDWARE ETC. THAT IS NOT STATED BUT IS REQUIRED TO COMPLETE THE SCOPE OF WORK AND PROVIDE THE SYSTEM FUNCTIONALITY AS WAS INTENDED WITH NO DEGRADATION IN QUALITY AND PERFORMANCE. ANY CONCERNS WITH RESPECT TO EQUIPMENT NOT INCLUDED WITHIN THE SCOPE OF WORK SHALL BE REPORTED TO THE CONSULTANT PRIOR TO TENDER CLOSE FOR INCLUSION. FAILURE TO DO SO WILL BE AT THE EXPENSE OF THE BIDDER/SUCCESSFUL CONTRACTOR DURING CONSTRUCTION AND EXTRAS WILL NOT BE TOLERATED.
- REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND SECURITY DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH AUDIOVISUAL SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
- DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES/DETAIL UNLESS INDICATED SPECIFICALLY ON AN ELEVATION DRAWING.
- DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.

1 GENERAL NOTES - AUDIOVISUAL BIDDER INFORMATION

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AUDIO VISUAL SYSTEM	PROJ-## 	PROJECTOR.
	DEVICE IDENTIFICATION NUMBER	LIFT-## 	PROJECTOR ON LIFT.
RACK-## 	AV EQUIPMENT RACK RACK 'ID' DESIGNATION: 'AV' = FREE STANDING EQUIPMENT RACK. 'CR' = CREDENZA RACK. 'RC' = RACK ON CASTERS.	SCR-## 	PROJECTION SCREEN. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)
TAG-## XX 	WALL MOUNT FLAT PANEL DISPLAY. DISPLAY 'TAG' DESIGNATION: 'FPD' = FLAT PANEL DISPLAY. 'IAD' = INTERACTIVE DISPLAY. 'DS' = DIGITAL SIGNAGE DISPLAY. 'MW' = MEDIA WALL DISPLAY(S). SEE DRAWING FOR QUANTITIES. 'VW' = VIDEO WALL NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)	TAG-## 	CEILING RECESSED SPEAKER. 'TAG' DESIGNATION: 'S' = AV SPEAKER. 'POS' = PAGING SPEAKER.
TAG-## XX 	CEILING MOUNT FLAT PANEL DISPLAY. DISPLAY 'TAG' DESIGNATION: 'PMD' = POLE MOUNT FLAT PANEL DISPLAY. 'PDD' = POLE MOUNT DUAL FLAT PANEL DISPLAYS. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)	TAG-## 	SURFACE MOUNT SPEAKER. 'TAG' DESIGNATION: 'S' = AV SPEAKER. 'POS' = PAGING SPEAKER. 'SC' = SPEAKER CLUSTER
TAG-## XX 	WALL MOUNT AV INTERFACE. 'TAG' DESIGNATION: 'RSD' = ROOM SCHEDULING DISPLAY. 'MRD' = MEETING ROOM DISPLAY. 'CTL' = TOUCH CONTROL PANEL. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)	TAG-## 	WALL MOUNT ANTENNA. 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA. 'ALS' = ASSISTIVE LISTENING ANTENNA.
TAC-## 	BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR. 'TAG' DESIGNATION: 'BP' = BUTTON PANEL. 'VC' = VOLUME CONTROL. 'SC' = SCREEN CONTROL (FOR PROJECTION SCREENS).	MIC-## 	CEILING MOUNT ANTENNA. 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA. 'ALS' = ASSISTIVE LISTENING ANTENNA.
FB-## 	FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY.	AV-## 	CEILING MOUNT MICROPHONE.
CAM-## 	WALL MOUNT AV CAMERA.	AV-## 	AV BACKBOX. (1 GANG) (2 GANG) (3 GANG)
CAM-## 	CEILING MOUNT AV CAMERA.	AV 'SIZE' 	AV INPUT PLATE. (1 GANG) (2 GANG)
OC-## 	OCCUPANCY SENSORS.		AV BACKBOX. (1 GANG) (2 GANG) (3 GANG)
PT-## 	PARTITION SENSORS.		AV CABLE PULL BOX. SIZE DESIGNATION: '6X6' = 6X6X6 AV CABLE PULL BOX. '12X12' = 12X12X6 AV CABLE PULL BOX.
NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS. REFER TO AV COORDINATION MATRIX OR AV CONSULTANT DRAWINGS FOR BACKBOX SIZE, MOUNTING HEIGHT, AND ALL INFRASTRUCTURE REQUIREMENTS.			

2 AUDIO-VISUAL LEGEND

UNIVERSITY OF  
TORONTO  
MISSISSAUGA

KEYPLAN

No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15
2	ISSUED FOR AV-ADD-01	2024/12/18

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PROJECT

TITLE

AV LEGENDS, NOTES & COORDINATION MATRIX

architects  
Baird Sampson Neuert

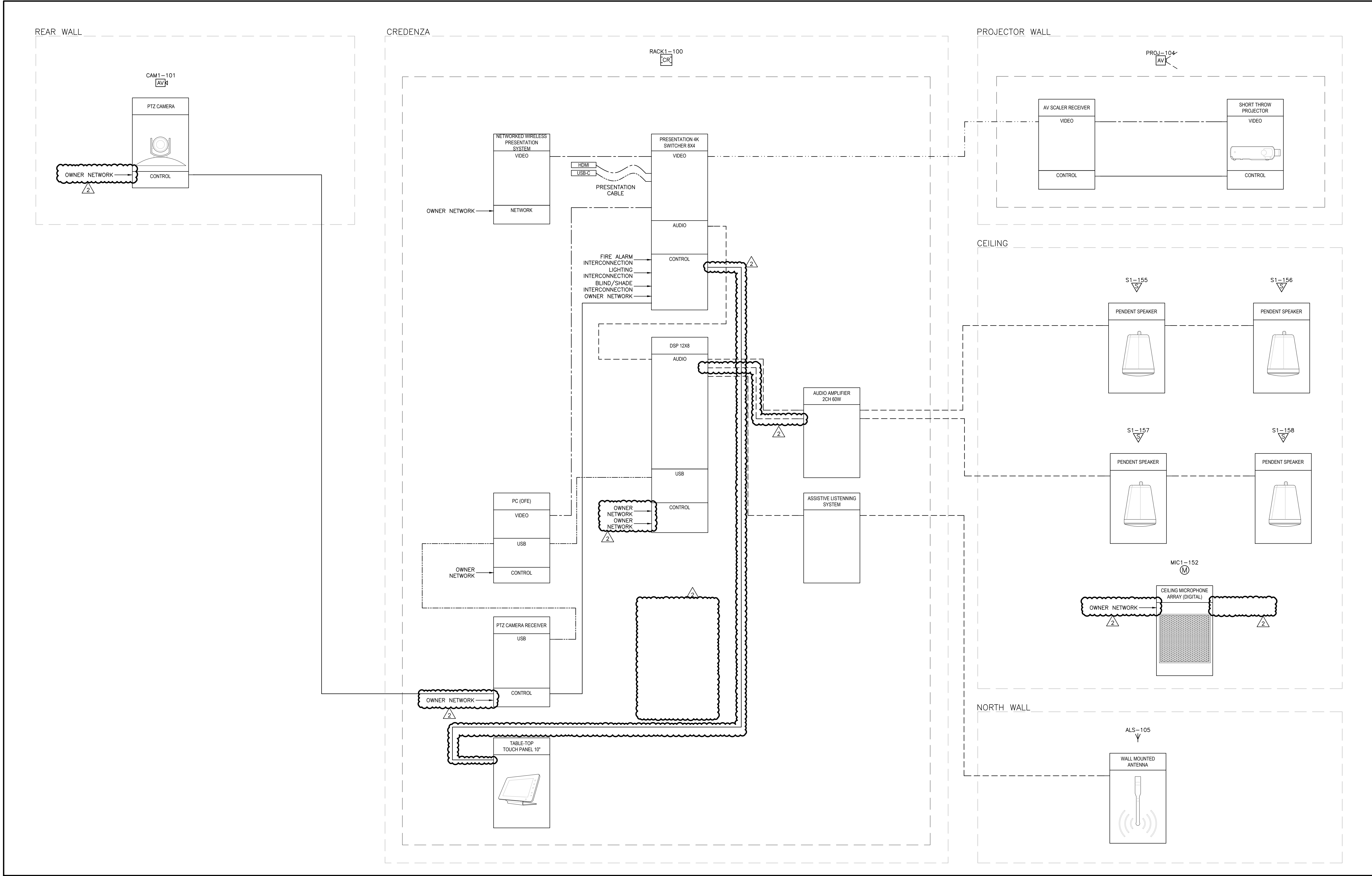
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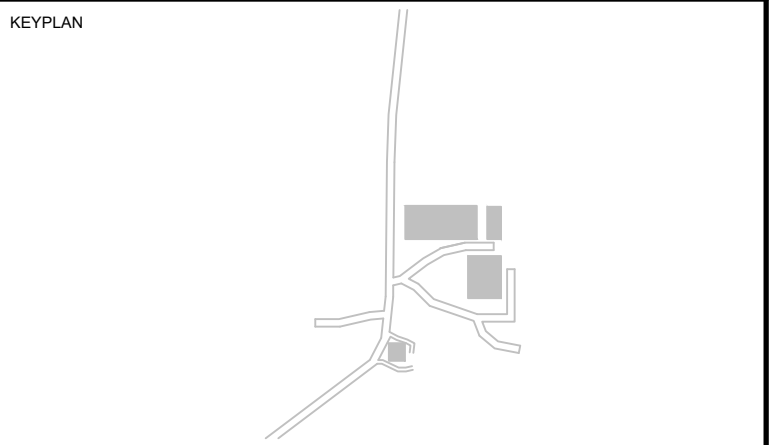
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DATE :		
PROJECT NO :		
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CHECKED BY :	P.G.	





1 TYPE 1 - MULTI-PURPOSE SPACE  
AV500 TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

LEGEND	
HDBaseT	-----
VIDEO	-----
AUDIO	-----
CONTROL	-----
USB	-----



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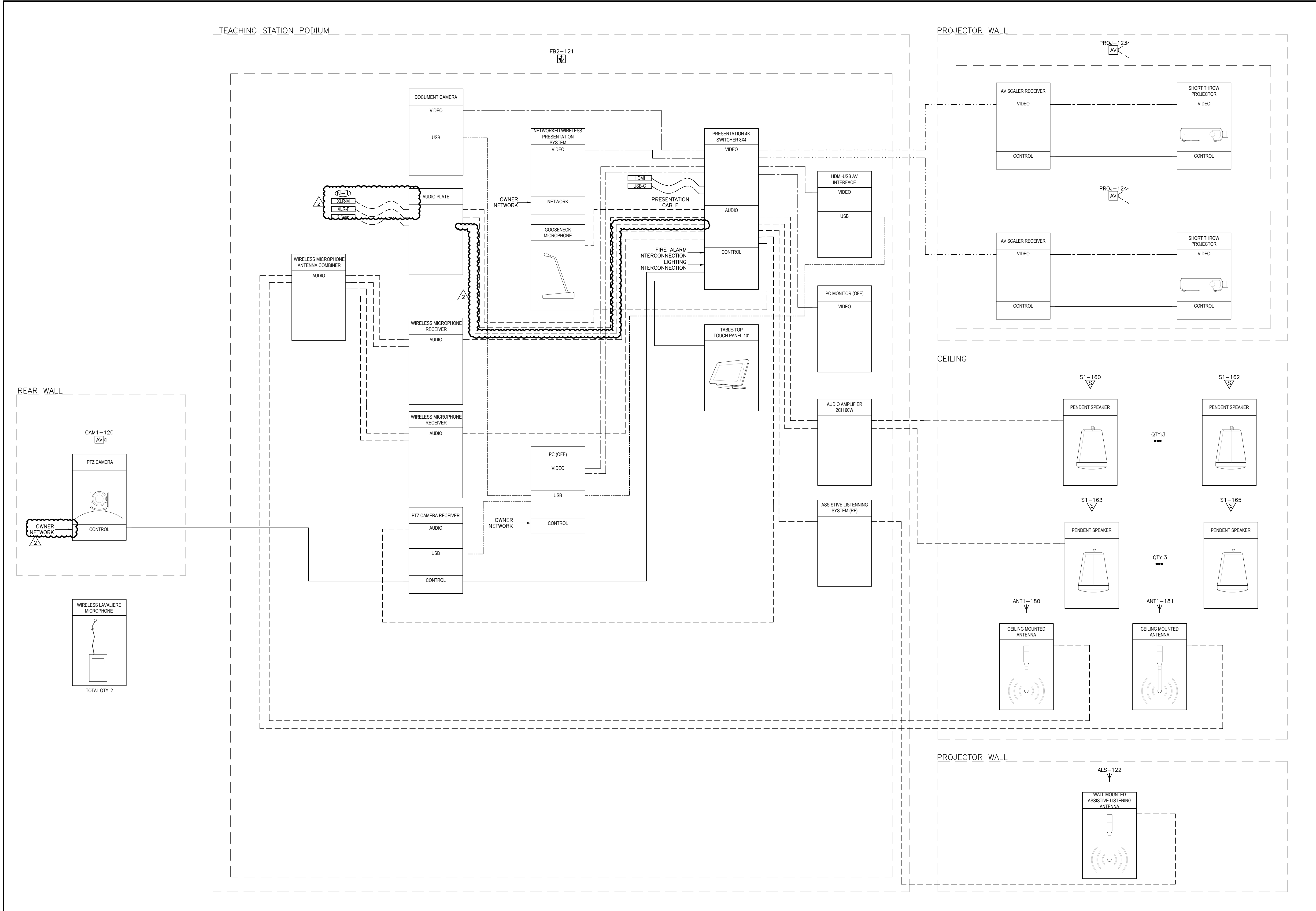
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**AV500**

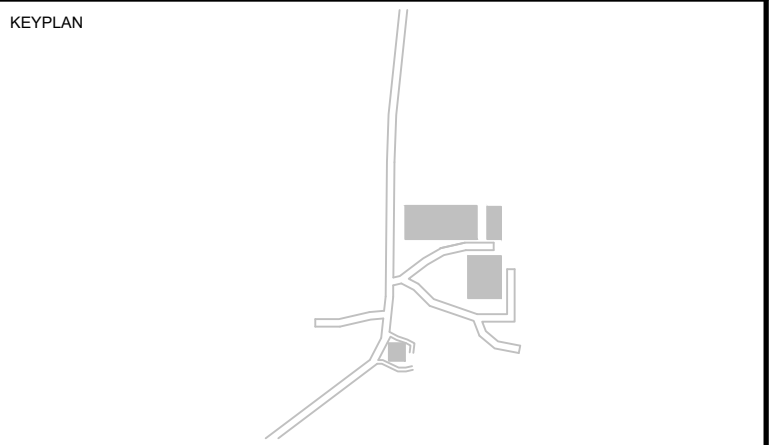




1 TYPE 3 - FORENSIC TEACHING CLASSROOM  
AV502 TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

LEGEND	
HDBaseT	-----
VIDEO	-----
AUDIO	-----
CONTROL	-----
USB	-----

NOTES:  
XLR-F SHALL BE MIC LEVEL INPUT TO THE SYSTEM.  
XLR-M SHALL BE LINE LEVEL OUTPUT OF THE SYSTEM.



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**AV502**