

SHEET INDEX

ABBREVIATIONS & NOTATIONS

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STATE OF MARYLAND

PROFESSIONAL ENGINEER

No. 22868

1776

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A	AC ACP ADA AFF AIA ANSI AP AWG	ABOVE CEILING ACCESS CONTROL PANEL AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR AMERICAN INSTITUTE OF ARCHITECTS AMERICAN NATIONAL STANDARDS INSTITUTE ACCESS POINT AMERICAN WIRE GAUGE
B	BAS BDA BEF BICSI BMS BTS BTU	BUILDING AUTOMATION SYSTEM BI-DIRECTIONAL ANTENNA BUILDING ENTRANCE FACILITY BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL BUILDING MANAGEMENT SYSTEM BASE TRANSCEIVER STATION BRITISH THERMAL UNIT
C	CA CAT CATV CB CCTV CPE CN codec CPU CT	CABLE CATEGORY COMMUNITY ANTENNA TELEVISION (CABLE TELEVISION) CONDUIT BANK CLOSED CIRCUIT TELEVISION CUSTOMER FURNISHED EQUIPMENT INDIVIDUAL CONDUIT CODER/DECODER CENTRAL PROCESSING UNIT CABLE TRAY
D	D-A or D/A DAS dB DB DC DC DEMARC DL DSL	DIGITAL TO ANALOG CONVERSION DISTRIBUTED ANTENNA SYSTEM DECIBEL DUCT BANK DIRECT CURRENT DOOR CONTACT DEMARICATION POINT DUCT LINER (INNER DUCT) DIGITAL SUBSCRIBER LINE
E	EF EMI EMT ESS	ENTRANCE FACILITY ELECTROMAGNETIC INTERFACE ELECTRICAL MAGNETIC TUBING ELECTRONIC SECURITY & SAFTEY
F	FAX FCC FREQ	FACSIMILE FEDERAL COMMUNICATIONS COMMISSION FREQUENCY
G	GA GC GHz GND	GAUGE GENERAL CONTRACTOR GIGAHERTZ GROUND
H	HC HF HH HVAC HERTZ	HORIZONTAL CROSS-CONNECT HIGH FREQUENCY HANDHOLE HEATING, VENTILATION, AND AIR-CONDITIONING HERTZ
I	IC IDF IDS IEEE IPS IR ISC ISDN ISO ITU ITU-T	INTERMEDIATE CROSS-CONNECT INTERMEDIATE DISTRIBUTION FRAME INTRUSION DETECTION SYSTEM INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INFANT PROTECTION SYSTEM INFRARED INTELLIGENT SYSTEM CONTROLLER INTEGRATED SERVICES DIGITAL NETWORK INTERNATIONAL STANDARDS ORGANIZATION INTERNATIONAL TELECOMMUNICATIONS UNION INTERNATIONAL TELECOMUNICATIONS UNION - TELECOMMUNICATIONS
J	JB	JUNCTION BOX
K	kHz KWH	KILOHERTZ KILOWATT-HOURS
L	LAN IBF LED	LOCAL AREA NETWORK POUNDS, FORCE LIGHT-EMITTING DIODE
M	MBA MC MDF MH MM modem MTR MUTO MUX	MULTI-BAND ANTENNA MAIN CROSS-CONNECT MAIN DISTRIBUTION FRAME MANHOLE, MAINTENANCE HOLE MULTI MODE MODULATOR/DEMODULATOR MAIN TECHNOLOGY ROOM MULTI USER TELECOMMUNICATIONS OUTLET MULTIPLEXER
N	NEC NESC NEXT NI NIC NTS	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL SAFETY CODE NEAR END CROSSTALK NETWORK INTERFACE NOT IN CONTRACT NOT TO SCALE
O	OEM OPE OSHA OSHPD	ORIGINAL EQUIPMENT MANUFACTURER OUTSIDE PLANT ENGINEER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT OUTSIDE PLANT
P	PABX PAM PB PBX PCM POTS PR PTZ PVC	PRIVATE AUTOMATIC BRANCH EXCHANGE PULSE AMPLITUDE MODULATION PULL BOX PRIVATE BRANCH EXCHANGE PULSE CODE MODULATION PLAIN OLD TELEPHONE SERVICE (COLLOQUIAL) PAIR PAN, TILT, ZOOM POLYVINYL CHLORIDE
R	RCDD REX RFI RFQ RH RIU	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER REQUEST TO EXIT RADIO FREQUENCY INTERFERENCE REQUEST FOR QUOTE RELATIVE HUMIDITY REMOTE INTERFACE UNIT
S	ScTP SDN SDSL SI SIM SM SM-PMMD SMPS SMS SNR SOC SONET SP SPG STP SYS	SCREENED TWISTED PAIR SWITCHED DIGITAL NETWORK SYMMETRICAL DIGITAL SUBSCRIBER LINE SYSTEM INTERNATIONAL SIMILAR SINGLE MODE SINGLE-MODE PHYSICAL MEDIUM DEPENDENT SWITCHED MODE POWER SUPPLY SECURITY MANAGEMENT SYSTEM SIGNAL-TO-NOISE RATIO SECURITY OPERATIONS CENTER SYNCHRONOUS OPTICAL NETWORK SERVICE PROVIDER SINGLE-POINT GROUND SYNCHRONOUS TRANSPORT SIGNAL SYSTEM
T	TB TBB TC TBC TDM TEL TELECO TERM TOB TIA TMGB TO TP-PMMD TR	TERMINAL BLOCK TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TERMS & CONDITIONS TIME-DIVISION MULTIPLEXING TELEPHONE TELEPHONE COMPANY TERMINAL OR TERMINATING TELECOMMUNICATIONS GROUNDING BUSBAR TOTAL HARMONIC DISTORTION TELECOMMUNICATIONS INDUSTRY ASSOCIATION TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TELECOMMUNICATIONS OUTLET TWISTED PAIR PHYSICAL MEDIA DEPENDENT TECHNOLOGY ROOM
U	UBC UD UG UL UON UPS	UNIFORM BUILDING CODE UNDER FLOOR DUCT UNDERGROUND UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY
W	WAO WAP WDM	WORK AREA OUTLET WIRELESS ACCESS POINT WAVELENGTH DIVISION MULTIPLEXING

GENERAL NOTES

1	AUDIOVISUAL EQUIPMENT INCLUDING FLAT PANEL DISPLAYS, PROJECTORS, ETC. ARE NOT IN CONTRACT (N.I.C.) AND WILL BE BID AT A LATER TIME, EXCEPT FLAT PANEL DISPLAYS LISTED UNDER SPECIFICATION SECTION 012100 -- ALLOWANCES.
2	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ALL ITEMS ARE NOT ENUMERATED IN THE DESIGN PACKAGE AND THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES REQUIRED TO MEET THE DESIGN INTENT.
3	VERIFY DEVICE LOCATIONS IN THE FIELD WITH DUE REGARD TO AS-BUILT CONDITIONS BEFORE INSTALLATION. COORDINATE WORK WITH FIELD CONDITIONS AND OTHER TRADES IN ORDER TO MEET DESIGN INTENT.
4	DEBURR ALL CONDUIT AND PROVIDE BUSHINGS AND 200LB PULLSTRING PRIOR TO INSTALLING CABLE.
5	CONDUIT BENDS SHALL BE SWEEPS TO MAINTAIN PROPER CABLE BEND RADIUS.
6	CONDUIT STUB-OUTS SHALL BE EXTENDED TO NEAREST ACCESSIBLE CEILING SPACE WITHIN ROOM IN WHICH THE DEVICE RESIDES, UNLESS OTHERWISE NOTED.
7	PROVIDE PULL BOXES AND JUNCTION BOXES IN ACCORDANCE WITH SPECIFIED STANDARDS AND LOCAL CODES. AT A MINIMUM, PROVIDE ONE (1) PULL BOX FOR EVERY 100 FEET OF STRAIGHT CONDUIT RUN, AND ONE (1) PULL BOX AFTER TWO (2) 90-DEGREE BENDS.
8	COORDINATE EXACT ROUTING OF CONDUIT AND PATHWAYS BASED ON FIELD CONDITIONS. WHERE GENERAL DESIGN INTENT CAN NOT BE ACHIEVED, OBTAIN FORMAL APPROVAL OF ROUTING CHANGES FROM OWNER'S REPRESENTATIVE.
9	CABLES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE BY APPROVED J-HOOKS OR SLINGS WHEN NOT IN CONDUIT OR COMMON LOW VOLTAGE CABLE TRAY. CABLES TRANSITIONING TO AND FROM CABLE TRAY, CONDUIT, SLEEVES, J-HOOKS OR OTHER SUPPORT MECHANISM SHALL BE SUPPORTED WHEN THE TRANSITION SPANS MORE THAN 3 FEET.
10	PROVIDE PLENUM RATED CABLE WHEN INSTALLED IN PLENUM SPACE.
11	PROVIDE BLANK PLATES FOR ALL UNUSED BOXES.
12	ALL CABLING PASSING THROUGH WALL STRUCTURE SHALL BE SUPPORTED WITH CONDUIT, SLEEVE, FIRESTOP ASSEMBLY, ETC, AS REQUIRED THROUGH THE WALL STRUCTURE. PATHWAY SIZING SHALL ADHERE TO THE REFERENCED STANDARDS AND FILL RATIO REQUIREMENTS. PROVIDE CONDUIT, SLEEVES, FIRESTOP ASSEMBLIES, ETC, FOR ALL CABLE PENETRATING WALLS IN ACCORDANCE WITH THE REFERENCED STANDARDS IN THE SPECIFICATIONS.
13	SUBMIT DEVICE, FACEPLATE AND JACK COLOR SAMPLES TO OWNER'S REPRESENTATIVE PRIOR TO ORDER.
14	REFER TO LIFE SAFETY DRAWINGS FOR FIRE & SMOKE WALL LOCATIONS. CONDUIT PENETRATIONS SHALL BE PROPERLY FIRESTOPPED PER CODE. CABLE TRAY SHALL NOT PENETRATE FIRE & SMOKE WALLS. LISTED FIRESTOP ASSEMBLIES SHALL BE USED TO PENETRATE FIRE & SMOKE WALLS FOR CABLE TRAY PATHWAYS.
15	REFER TO SYMBOL LEGEND, SCHEDULES AND DETAILS FOR ALL BOX AND CONDUIT REQUIREMENTS.
16	REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SHARED TECHNOLOGY AND ELECTRICAL FLOOR BOXES AND POKETHRUS.

AUDIOVISUAL SYMBOLS

	AUDIOVISUAL DISPLAY SCHEDULE, 'XX' INDICATES TYPE				AUDIOVISUAL WALL OUTLET (AWO) TYPE SCHEDULE, 'X' INDICATES TYPE				
	DEVICE TYPE	DESCRIPTION			DEVICE TYPE	DEVICE BOX	DEVICE CONDUIT	MOUNTING HEIGHT	FUNCTION
	DS-48	48" FLAT PANEL DISPLAY			AV1	1-GANG AV PASSTHRU PLATE	(1) 1 1/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING	60" AFF	DISPLAY CABLE PASSTHRU
	DS-55	55" FLAT PANEL DISPLAY			AV2	2-GANG AV PASSTHRU PLATE	(1) 1 1/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING	REFER TO ELEVATION	DISPLAY CABLE PASSTHRU
	DS-86	86" FLAT PANEL DISPLAY			C1	2-GANG CAMERA BOX	(1) 1 1/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING	84" AFF U.O.N.	CAMERA DISCONNECT
	DS-98	98" FLAT PANEL DISPLAY			CP1	CONTROL PANEL BACKBOX W/ WALL MOUNT	(1) 1 1/4 CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING	STANDARD SWITCH HEIGHT	AV CONTROL PANEL
	AUDIOVISUAL EQUIPMENT RACK SCHEDULE, 'X' INDICATES TYPE				DB1	2-GANG AV PASSTHRU PLATE	(1) 1 1/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING	60" AFF U.O.N.	DISPLAY CABLE PASSTHRU
	DP1	1-GANG TOUCHPANEL DATA PLATE			DP1	1-GANG INPUT PLATE, 3 1/2" DEEP BACK BOX	(1) 1 1/4" CONDUIT STUBBED TO CEILING	COUNTER HEIGHT	TABLETOP TOUCHPANEL CONNECTION
	RK-4	4 RACK UNIT IN-WALL RACK BOX			I1	1-GANG INPUT PLATE, 3 1/2" DEEP BACK BOX	(1) 1 1/4" CONDUIT STUBBED TO CEILING	18" AFF U.O.N.	AV CABLE PASSTHRU
	RK-45	45 RACK UNIT AV EQUIPMENT			R2	CUSTOM IN-WALL RACK BOX	(2) 1 1/4" CONDUITS STUBBED TO ABOVE ACCESSIBLE CEILING	40" AFF	AV RACK PASSTHRU
	AUDIOVISUAL SPEAKER SCHEDULE, 'X' INDICATES TYPE			SC1	(1) 1-GANG, FLUSH MOUNTED, 2 1/2" DEEP BACK BOX	(1) 1 1/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING	48" AFF	PROJECTION SCREEN CONTROL	
	WP1	(1) 2-GANG, FLUSH MOUNTED, 3 1/2" DEEP BACK BOX		WP1	(1) 2-GANG, FLUSH MOUNTED, 3 1/2" DEEP BACK BOX	(1) 1 1/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING	OUTLET HEIGHT	AV CABLE PASSTHRU	
	AUDIOVISUAL FLOOR OUTLET (AFO) TYPE SCHEDULE, 'X' INDICATES TYPE								
	DEVICE TYPE	DESCRIPTION	FUNCTION	DEVICE TYPE	DEVICE BOX	DEVICE CONDUIT	MOUNTING HEIGHT	FUNCTION	
	S1	RECESSED CEILING SPEAKER	OVERHEAD AUDIO REINFORCEMENT	FB1	POKETHRU, REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR BOX INFORMATION	(1) 1 1/4" CONDUITS STUBBED FROM BOTTOM HOUSING ASSEMBLY TO TV BACKBOX WITHIN ROOM FOR AUDIOVISUAL CABLING. REFER TO ELECTRICAL AND TELECOM DRAWINGS FOR ADDITIONAL PATHWAY REQUIREMENTS	IN-FLOOR	CONSOLIDATED POKETHRU FOR AUDIOVISUAL, ELECTRICAL, AND DATA. REFER TO ELECTRICAL AND TELECOM DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION	
	S2	SPEAKER MOUNTED TO STEEL TRUSS. PROVIDE 2-GANG BOX WITH (1) 1-1/4" CONDUIT DAISY-CHAINED AS SHOWN IN DRAWINGS AND HOME RUN TO AV RACK IN A118. REFERENCE DETAIL 4/TA5.8.	MULTIPURPOSE ROOM REINFORCEMENT						
	AUDIOVISUAL CEILING OUTLET (ACO) TYPE SCHEDULE, 'XX' INDICATES TYPE				AUDIOVISUAL WALL SPEAKER SCHEDULE, 'X' INDICATES TYPE				
	DEVICE TYPE	DESCRIPTION	FUNCTION		DEVICE TYPE	DEVICE BOX	DEVICE CONDUIT	MOUNTING HEIGHT	FUNCTION
	MIC1	RECESSED CEILING MIC	SPEECH REINFORCEMENT		S3	4-GANG SPEAKER BOX	(1) 1 1/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING DAISY-CHAINED AS SHOWN IN DRAWINGS AND HOME RUN TO A-115	120" AFF U.O.N.	PAGING SYSTEM REINFORCEMENT
	PS1	CEILING MOUNTED PARTITION SENSOR	PARTITION CONTROL						
	PRJ-1	CEILING MOUNTED PROJECTOR WITH SHORT THROW LENS							
	PRJ-2	CEILING MOUNTED PROJECTOR WITH 20FT MAX. THROW LENS							
	AUDIOVISUAL WALL SPEAKER SCHEDULE, 'X' INDICATES TYPE								
	PJS-1	104"X58" CEILING MOUNTED PROJECTION SCREEN							
	PJS-2	140"X79" CEILING MOUNTED PROJECTION SCREEN							
	PJS-3	140"X79" WALL MOUNTED PROJECTION SCREEN							

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PROPOSED NEW
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TECHNOLOGY LEGEND

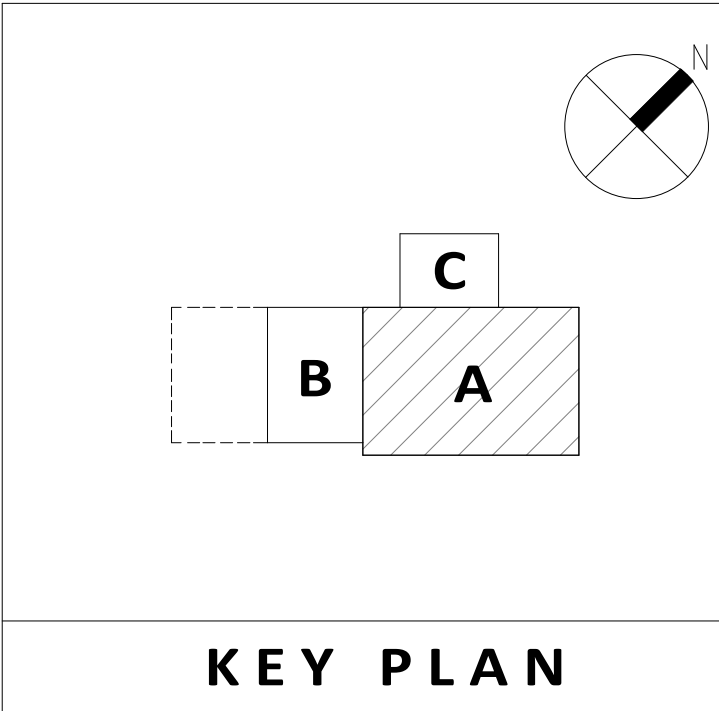
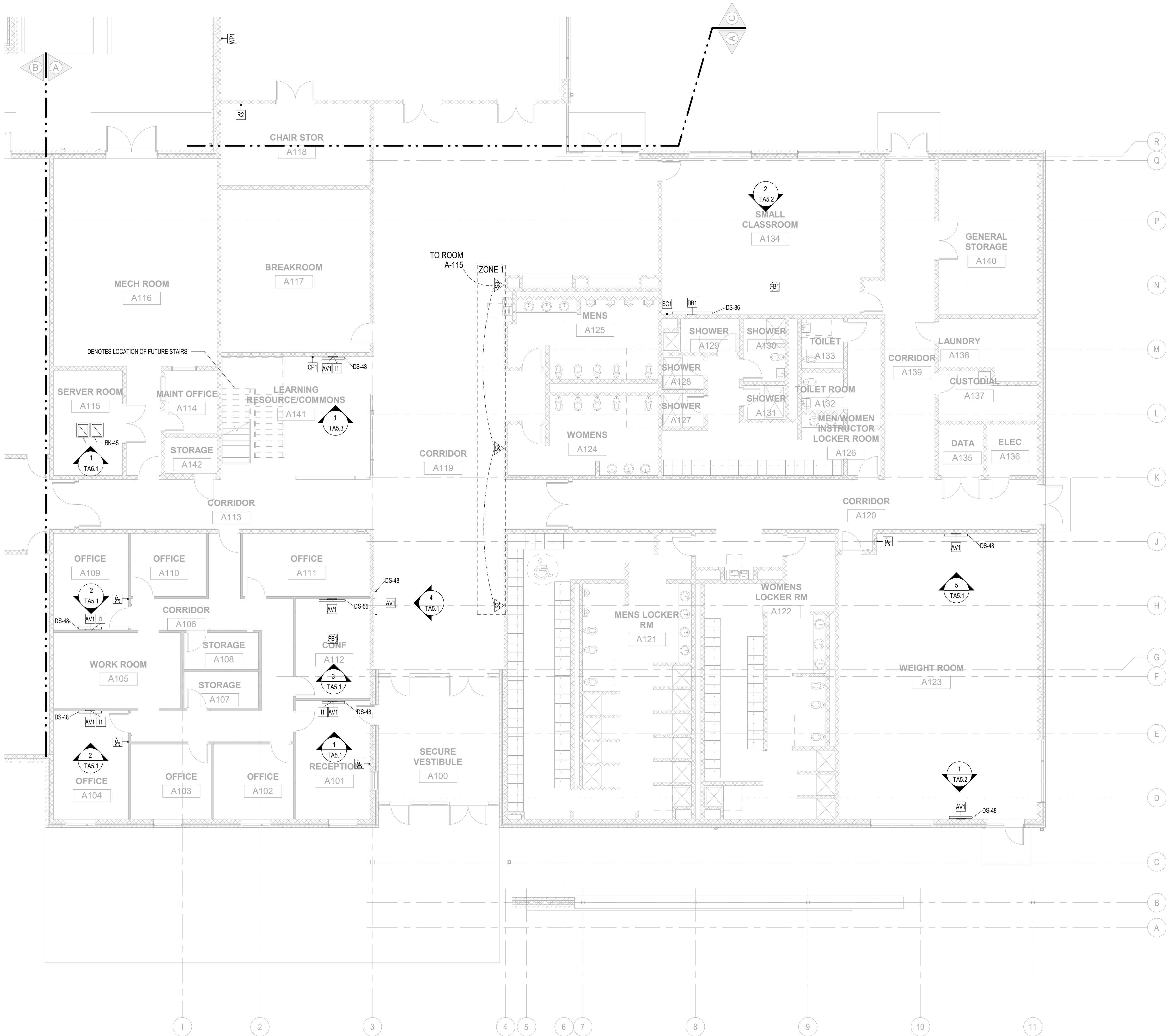
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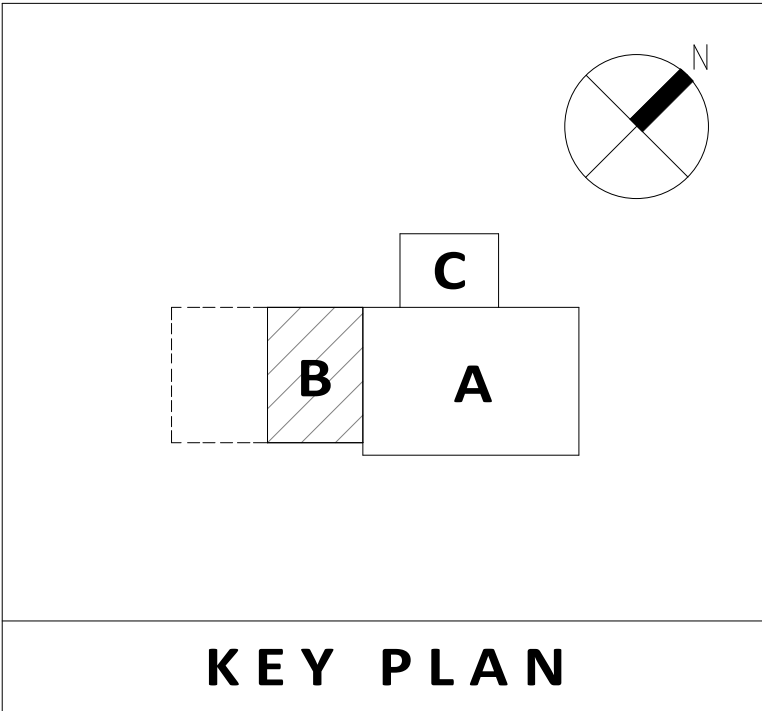
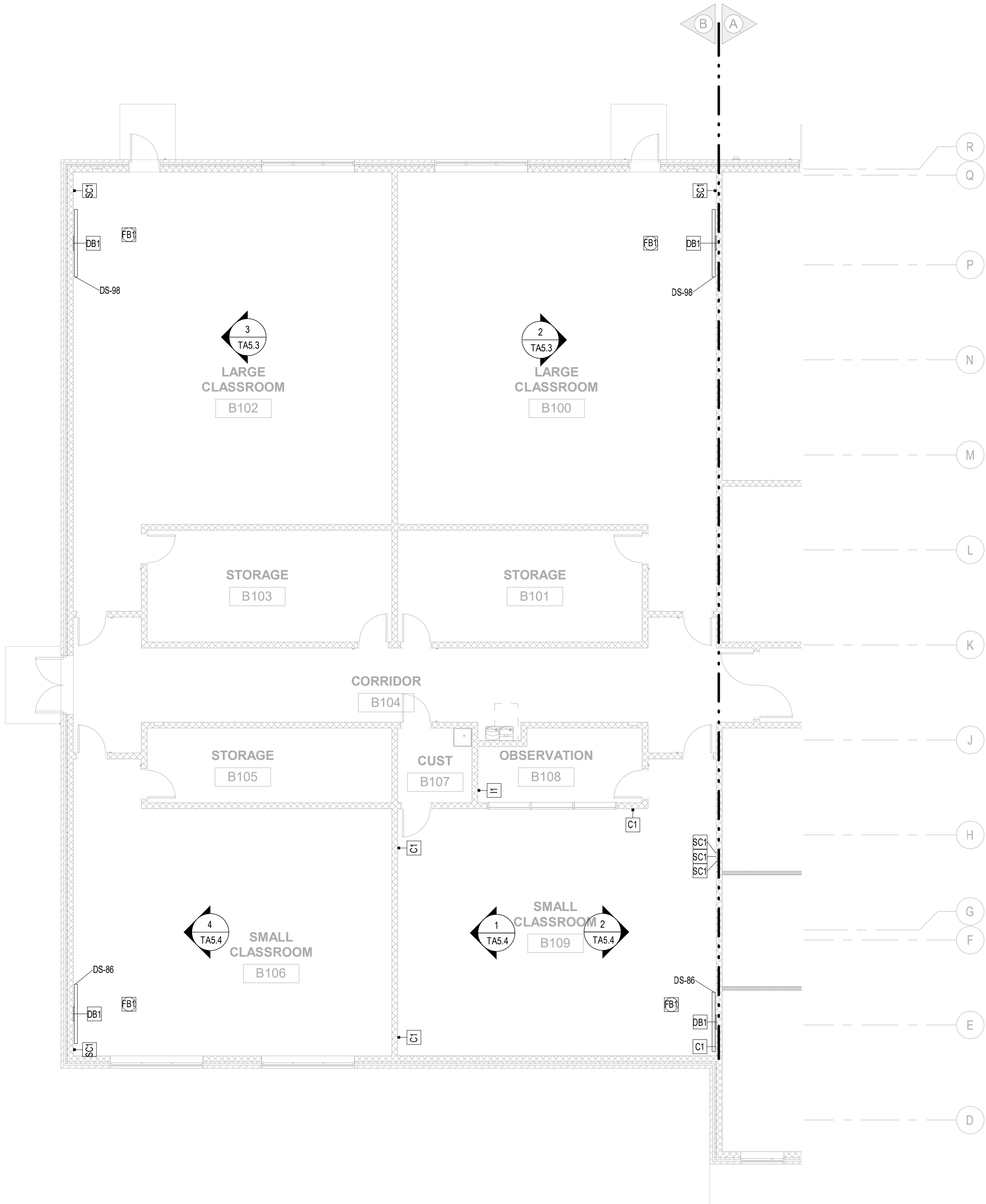
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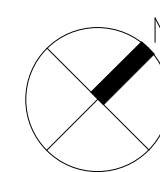
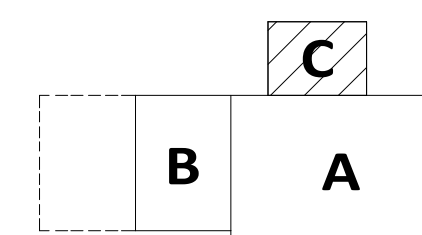
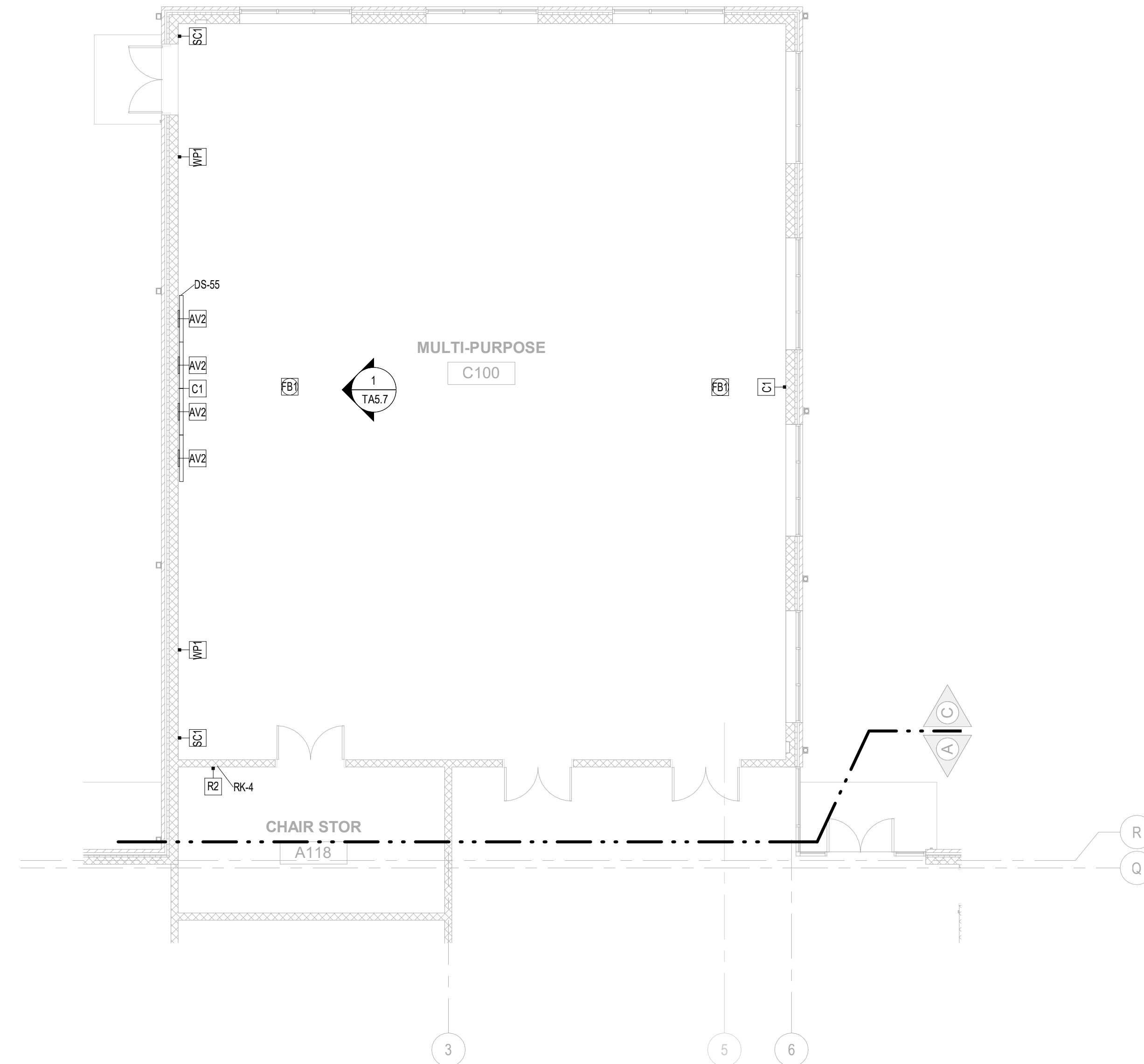
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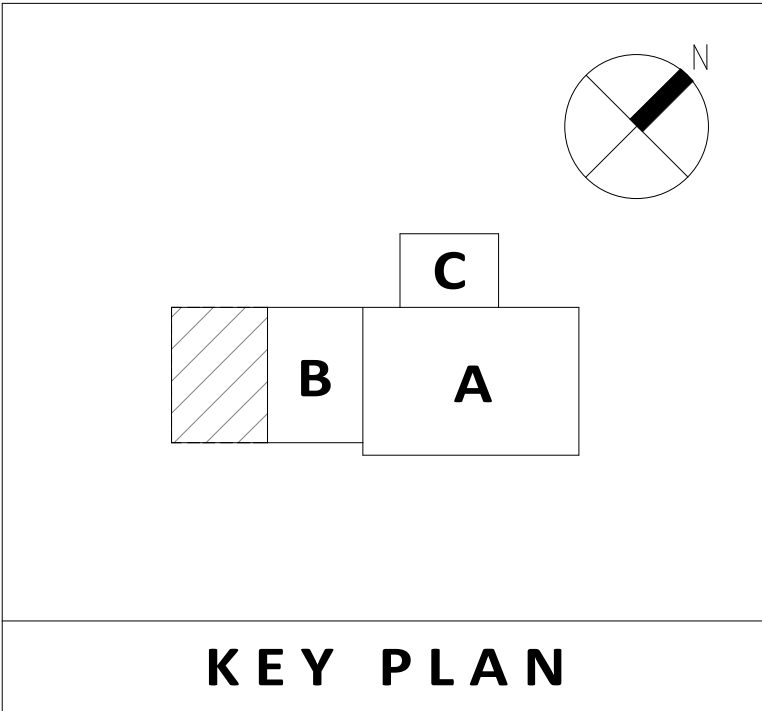
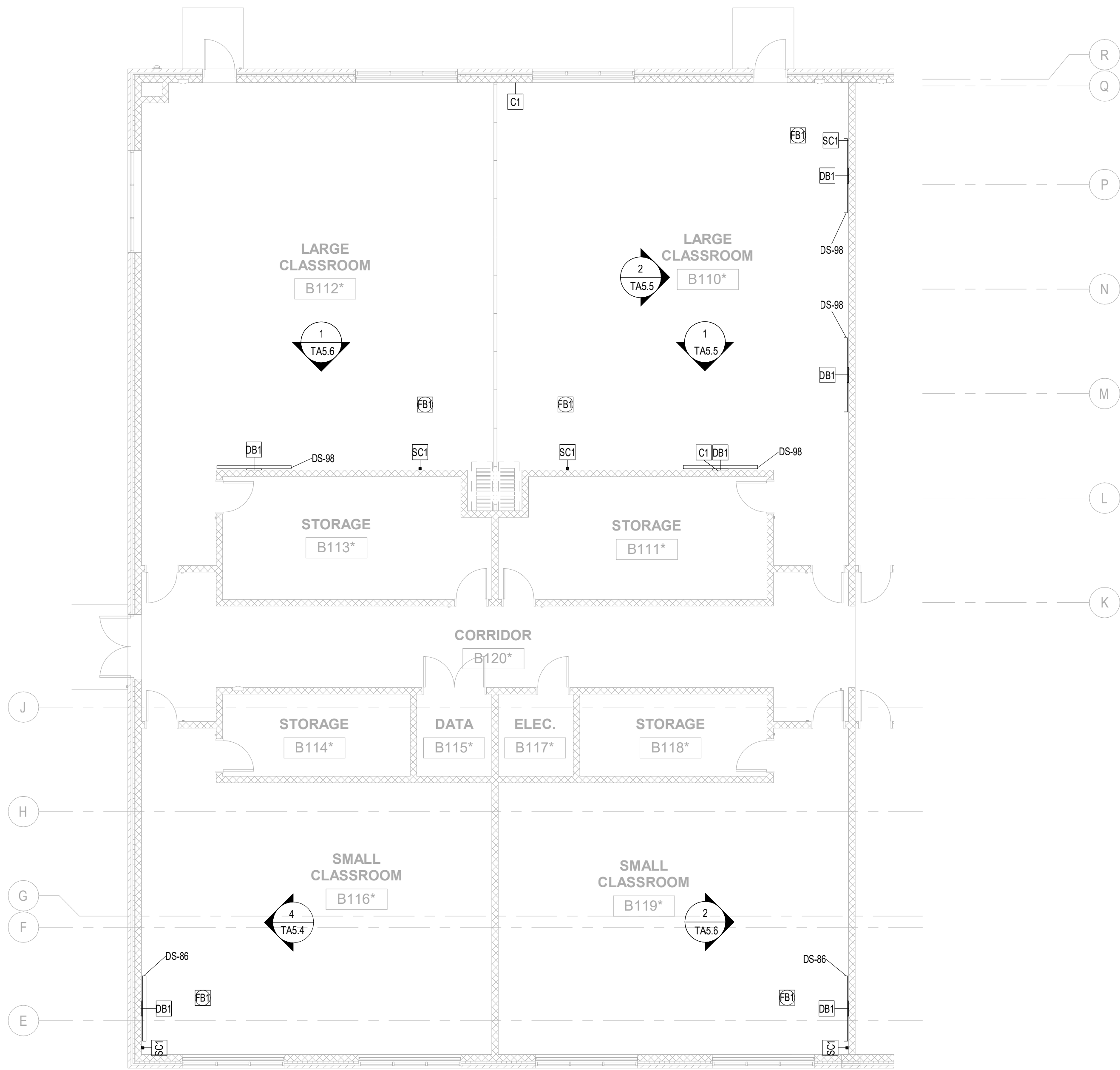
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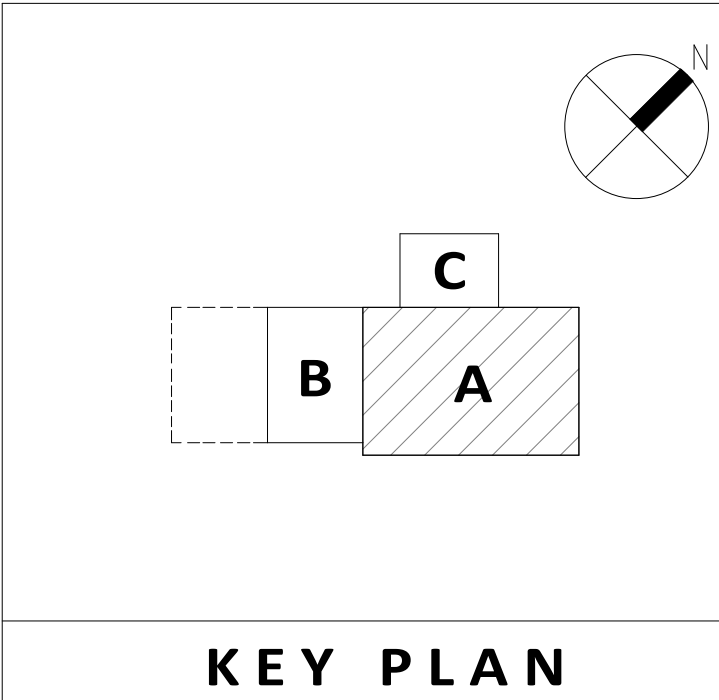
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AUDIOVISUAL PLAN - UNIT B
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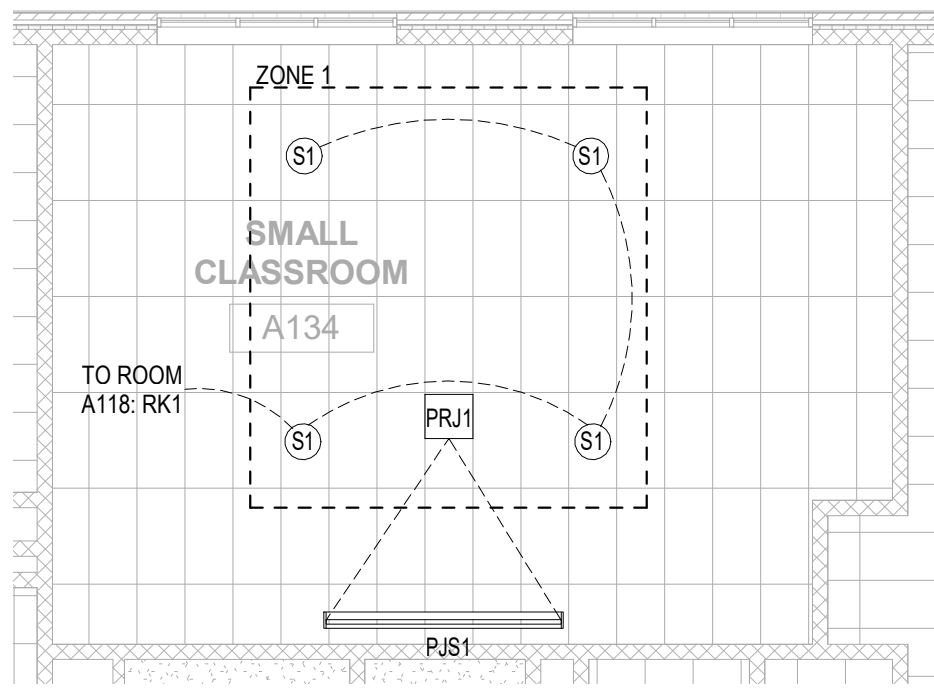
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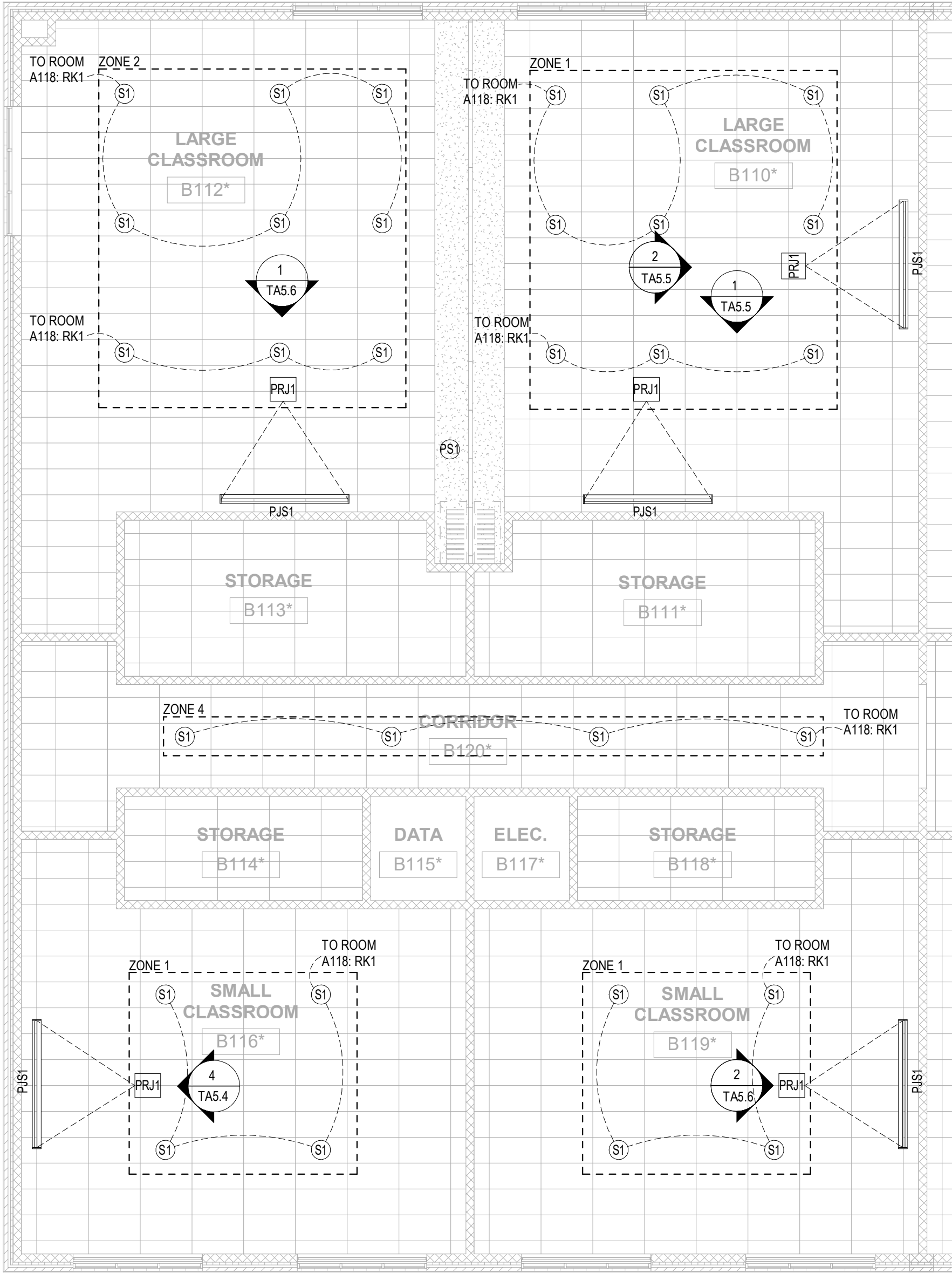
DATE: DECEMBER 18, 2019

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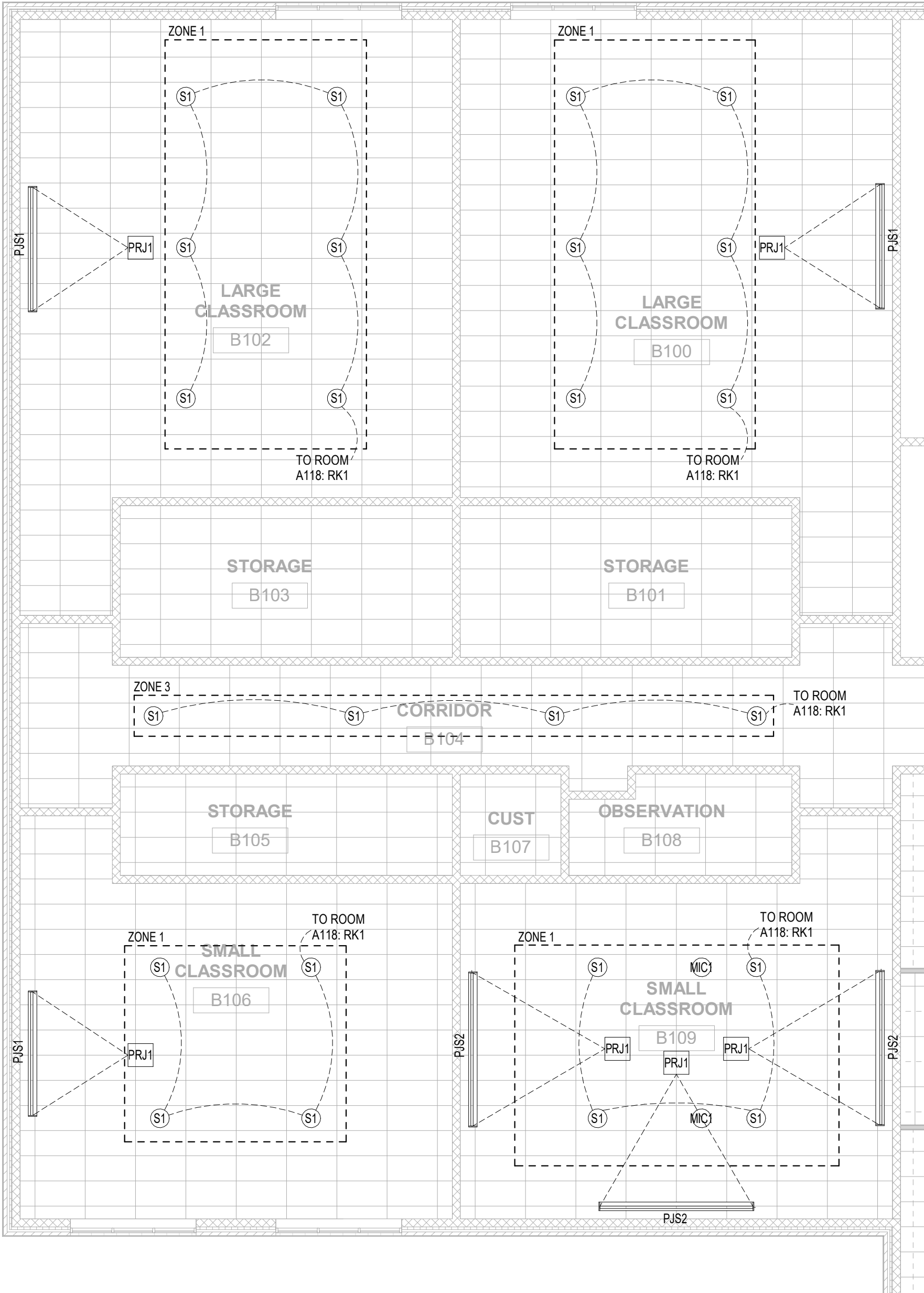
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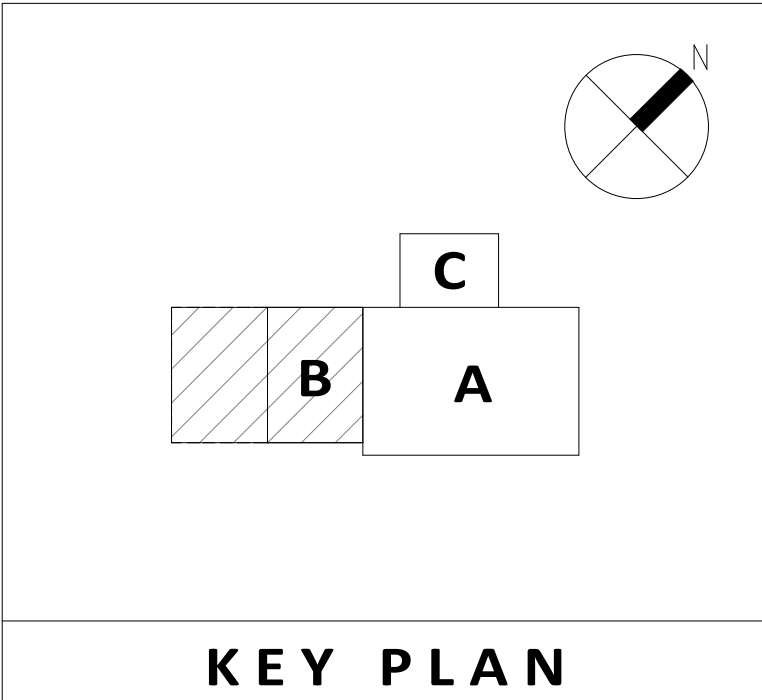
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TA2.2 FIRST FLOOR REFLECTED CEILING PLAN - UNIT A
1/8" = 1'-0"



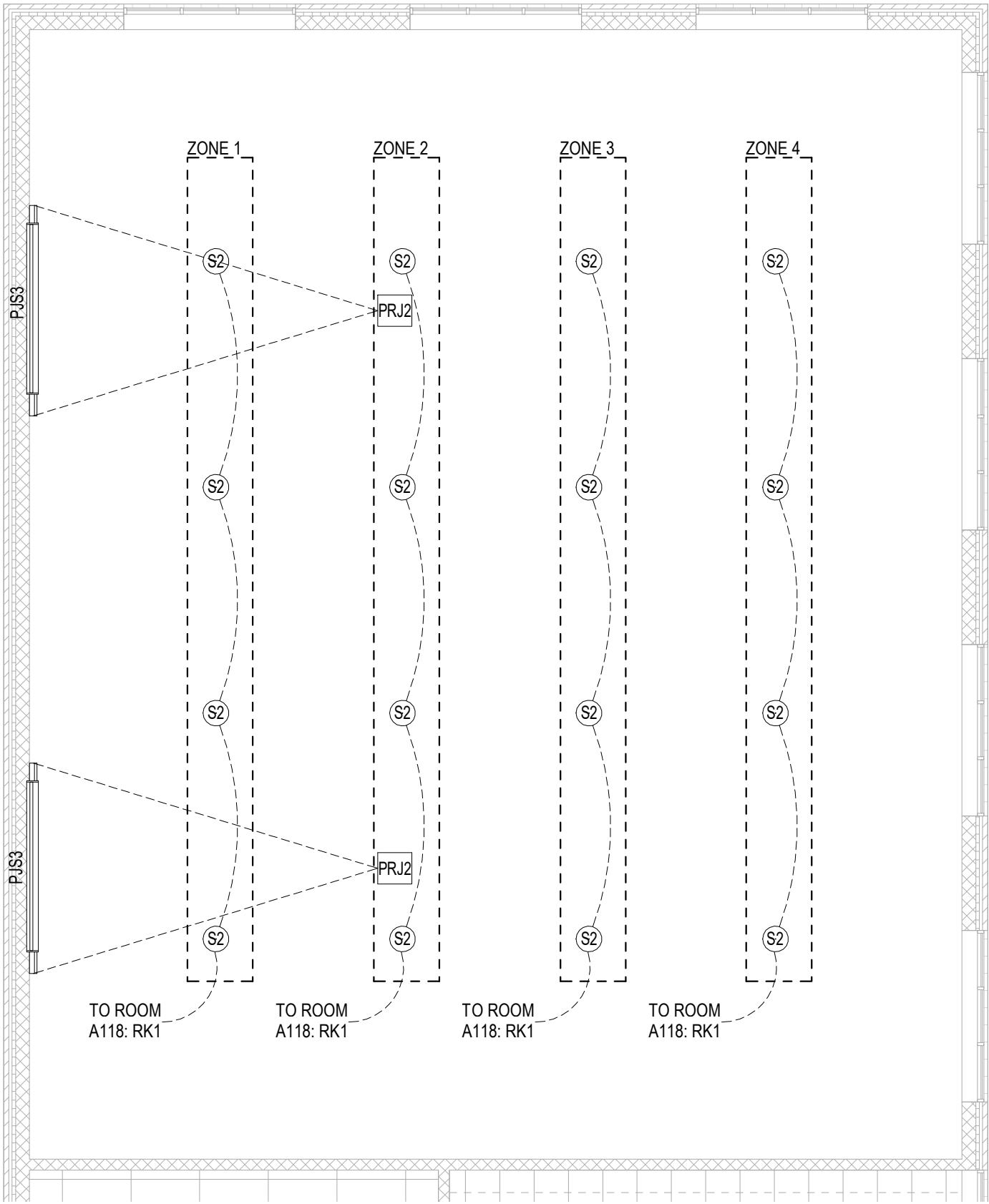
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TA2.2 FIRST FLOOR REFLECTED CEILING PLAN - UNIT B - SMALL CLASSROOM B116, B119 AND DIVISIBLE ROOM
1/8" = 1'-0"



1
TA2.2 FIRST FLOOR REFLECTED CEILING PLAN - UNIT B
1/8" = 1'-0"



KEY PLAN



SHEET NOTE:

COORDINATE CONDUIT INSTALLATION & WORKMANSHIP WITH THE ARCHITECT.
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AUDIOVISUAL RCP - UNIT C

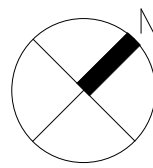
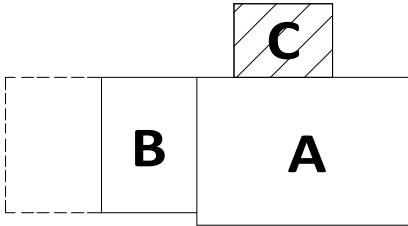
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FILENAME:

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TA2.3



KEY PLAN

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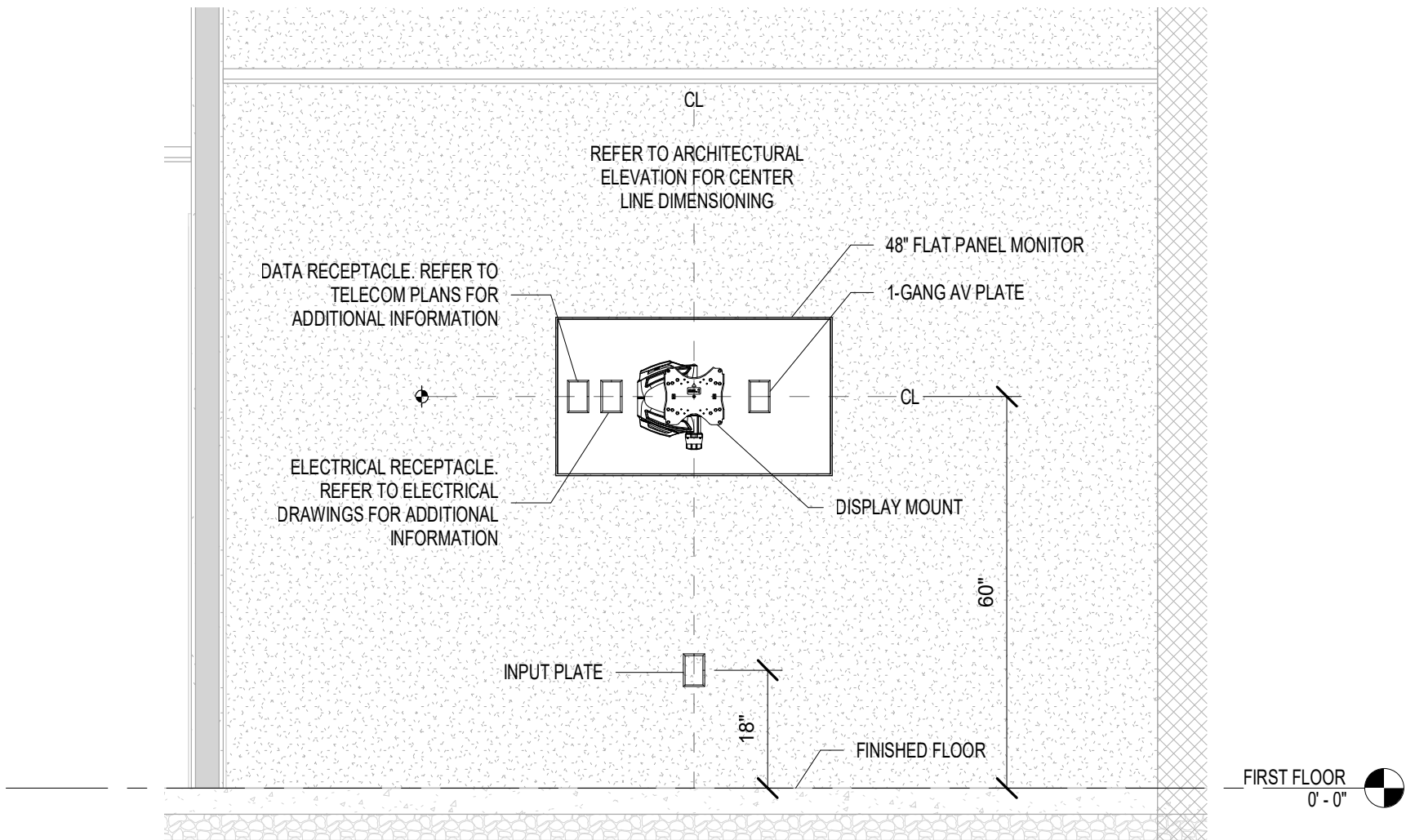
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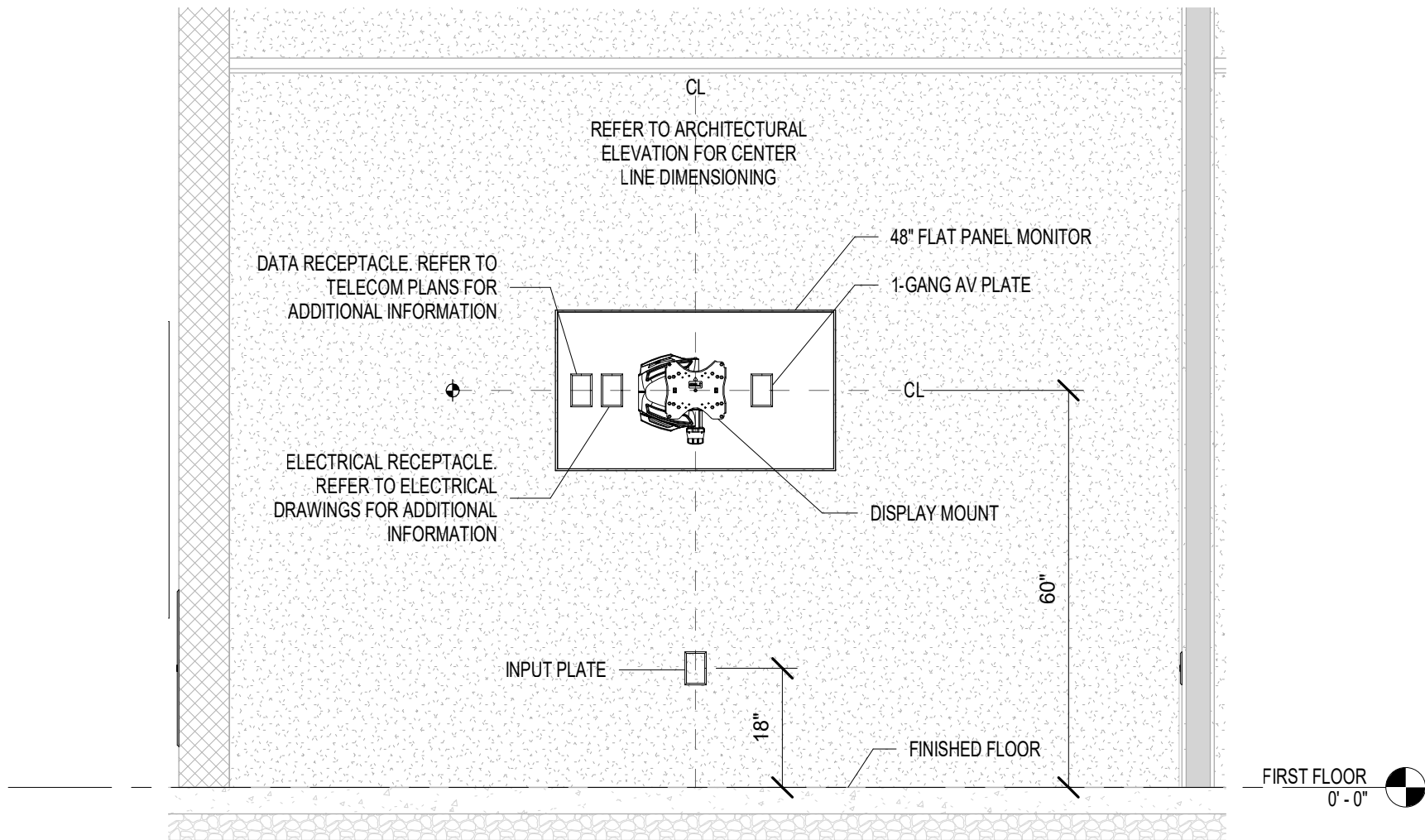
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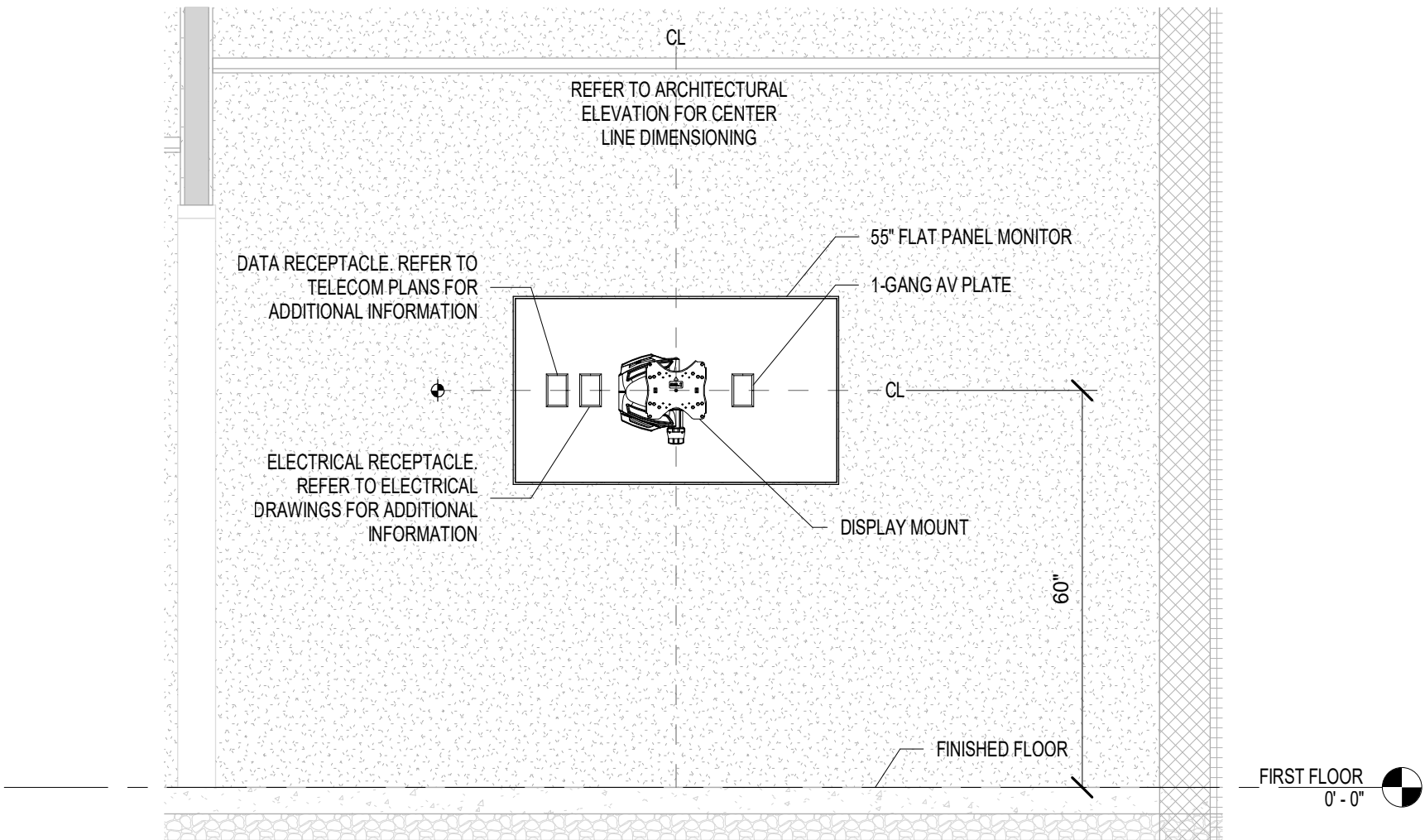
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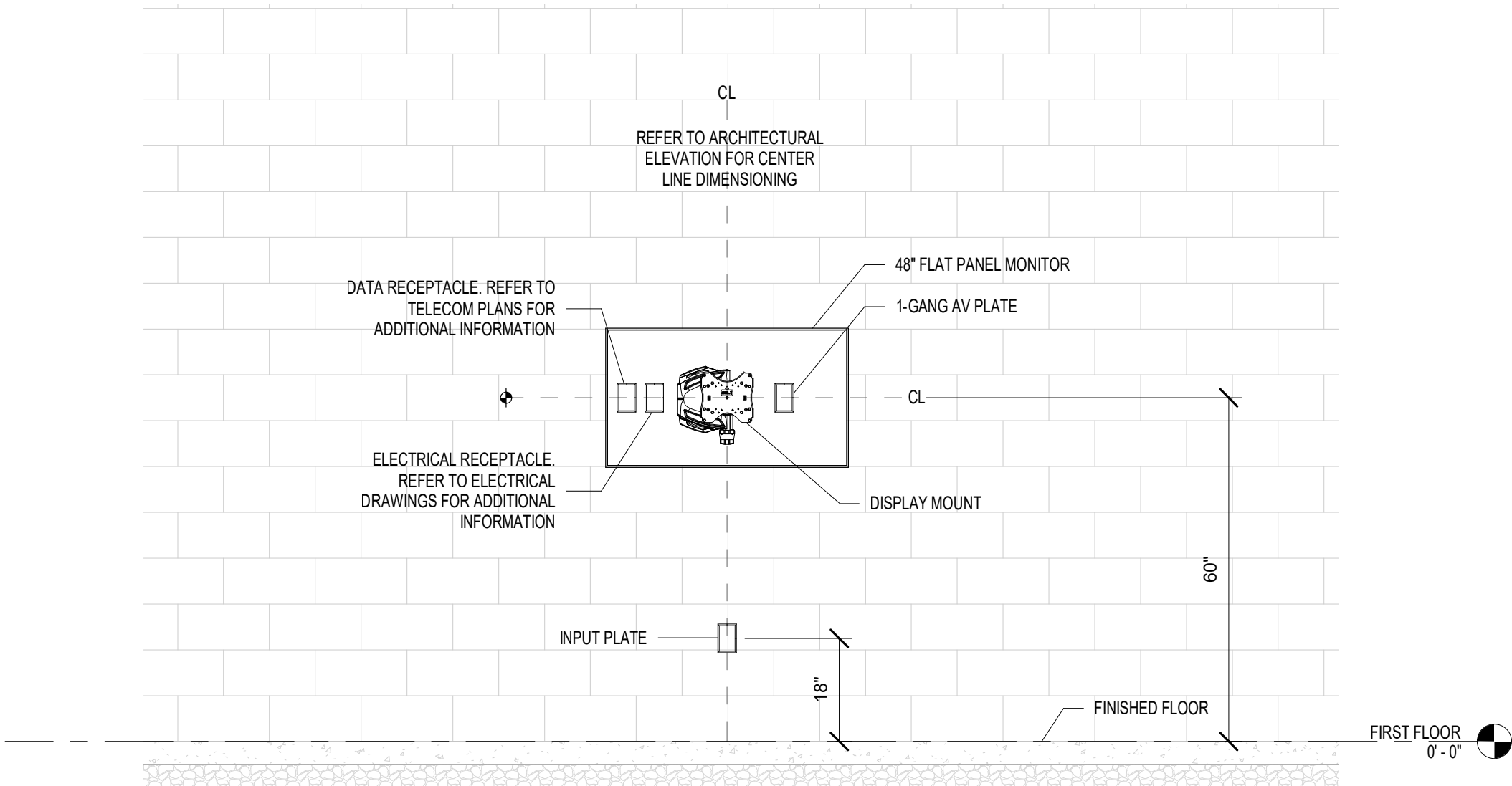
1 A101 RECEPTION LCD DISPLAY DETAIL
1/2" = 1'-0"



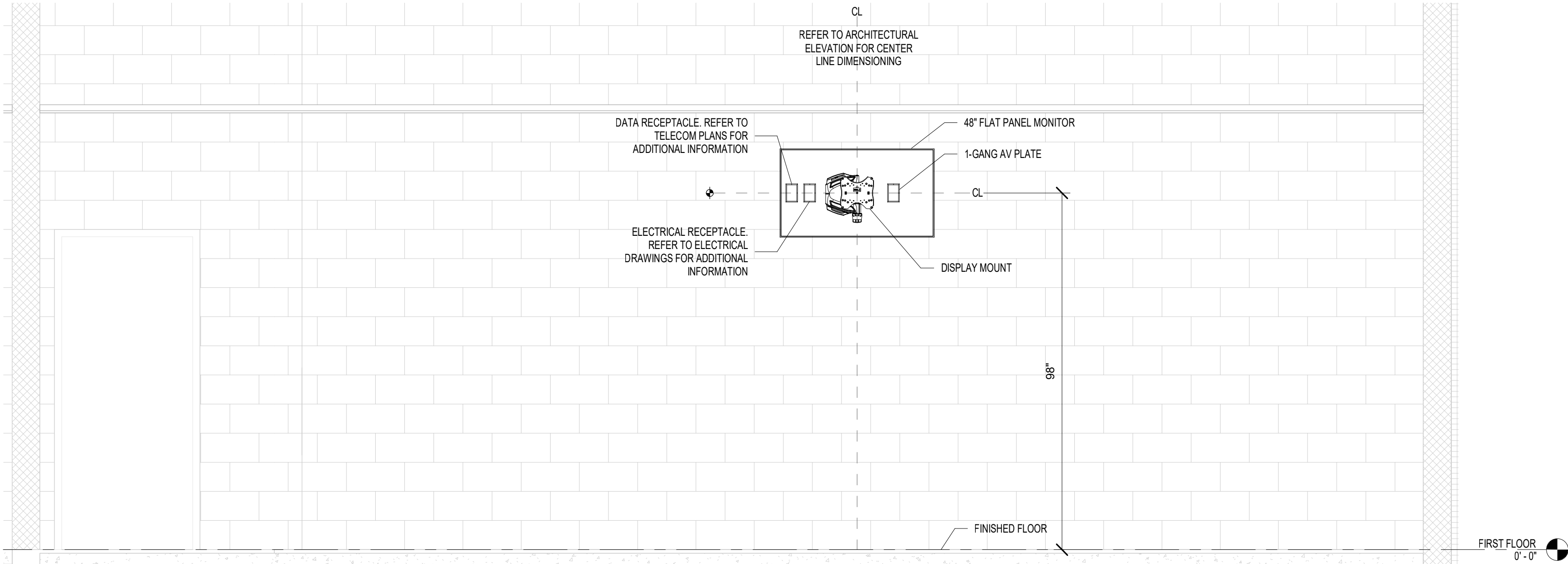
2 A104 OFFICE LCD DISPLAY DETAIL
1/2" = 1'-0"



3 A112 CONFERENCE ROOM LCD DISPLAY DETAIL
1/2" = 1'-0"



4 A119 LOBBY LCD DISPLAY DETAIL
1/2" = 1'-0"



5 A123 WEIGHT ROOM LCD DISPLAY DETAIL
1/2" = 1'-0"

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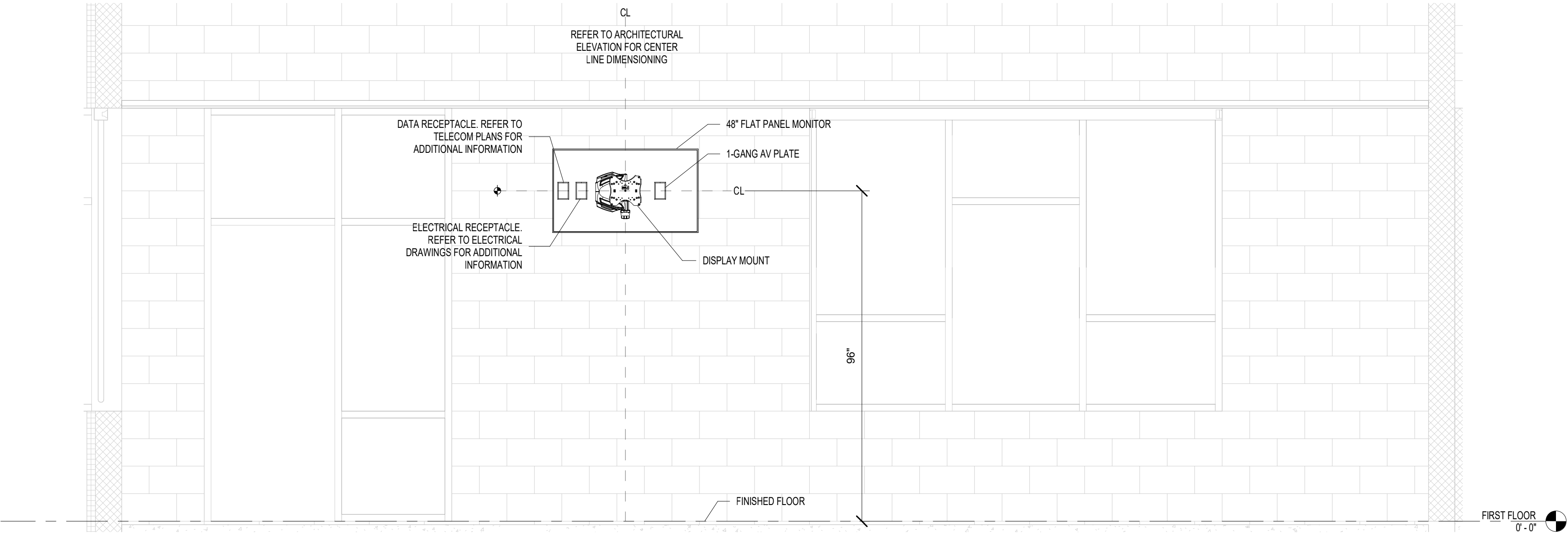


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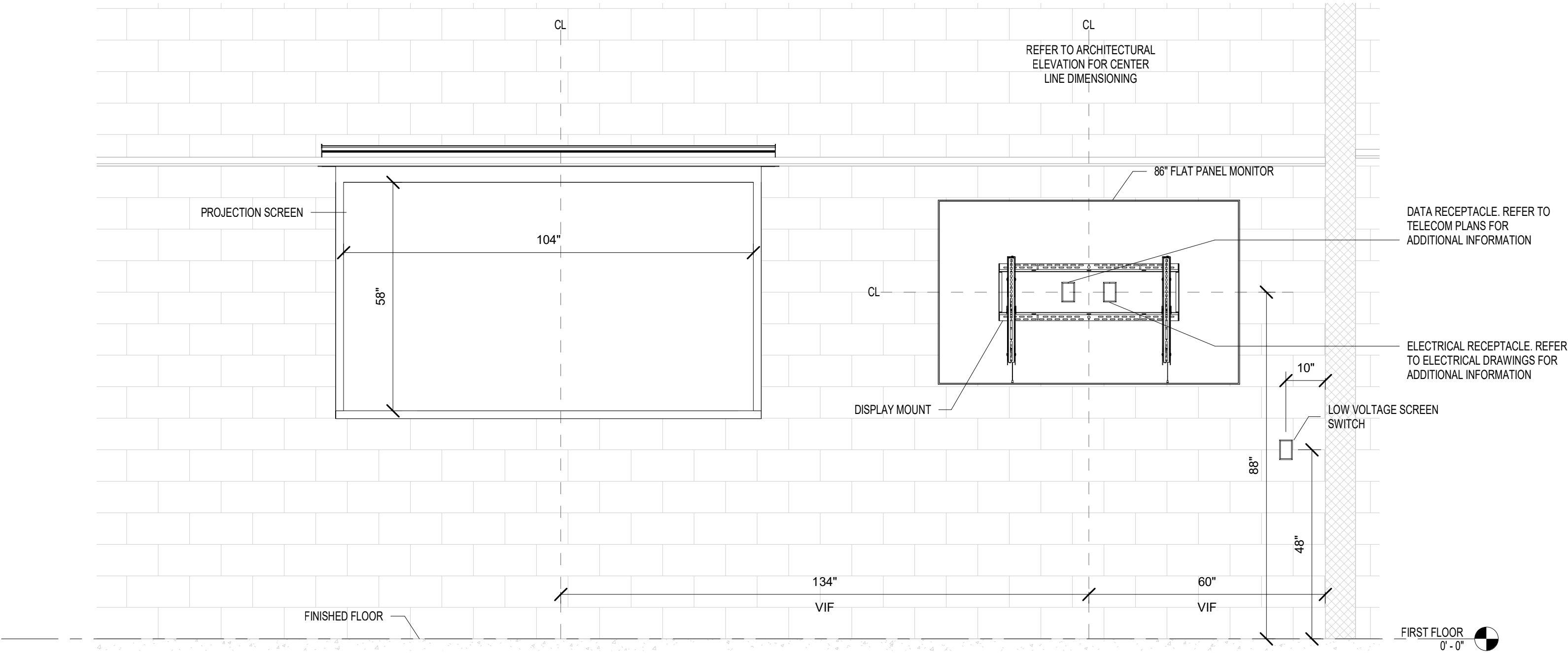
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NO.	MM-DD-YR	NAME	DESCRIPTION OF CHANGES

1 A123 WEIGHT ROOM SOUTH VIEW LCD DISPLAY DETAIL
1/2" = 1'-0"



2 A134 SMALL CLASSROOM FRONT PROJECTION AND LCD DISPLAY DETAIL
1/2" = 1'-0"



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TA5.2

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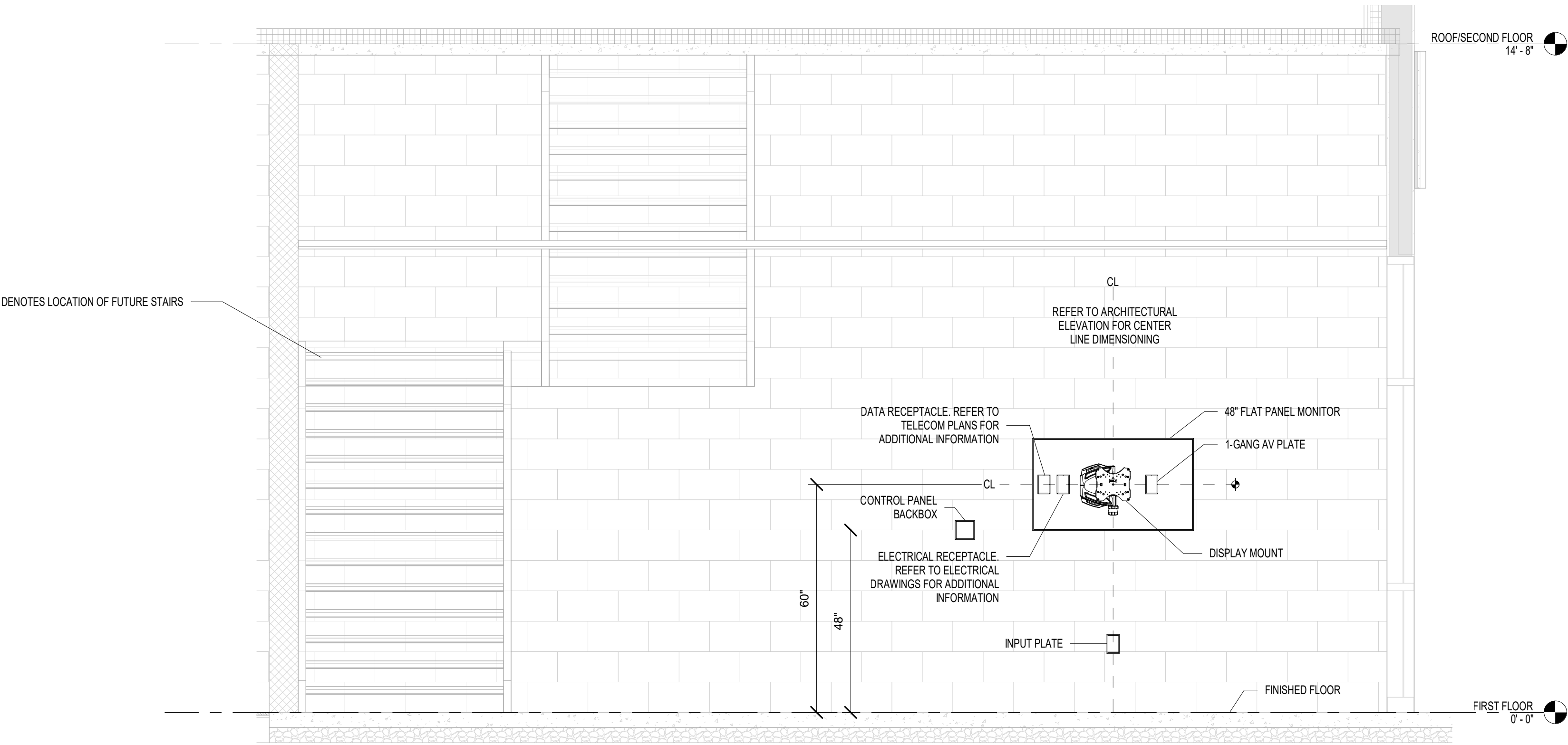
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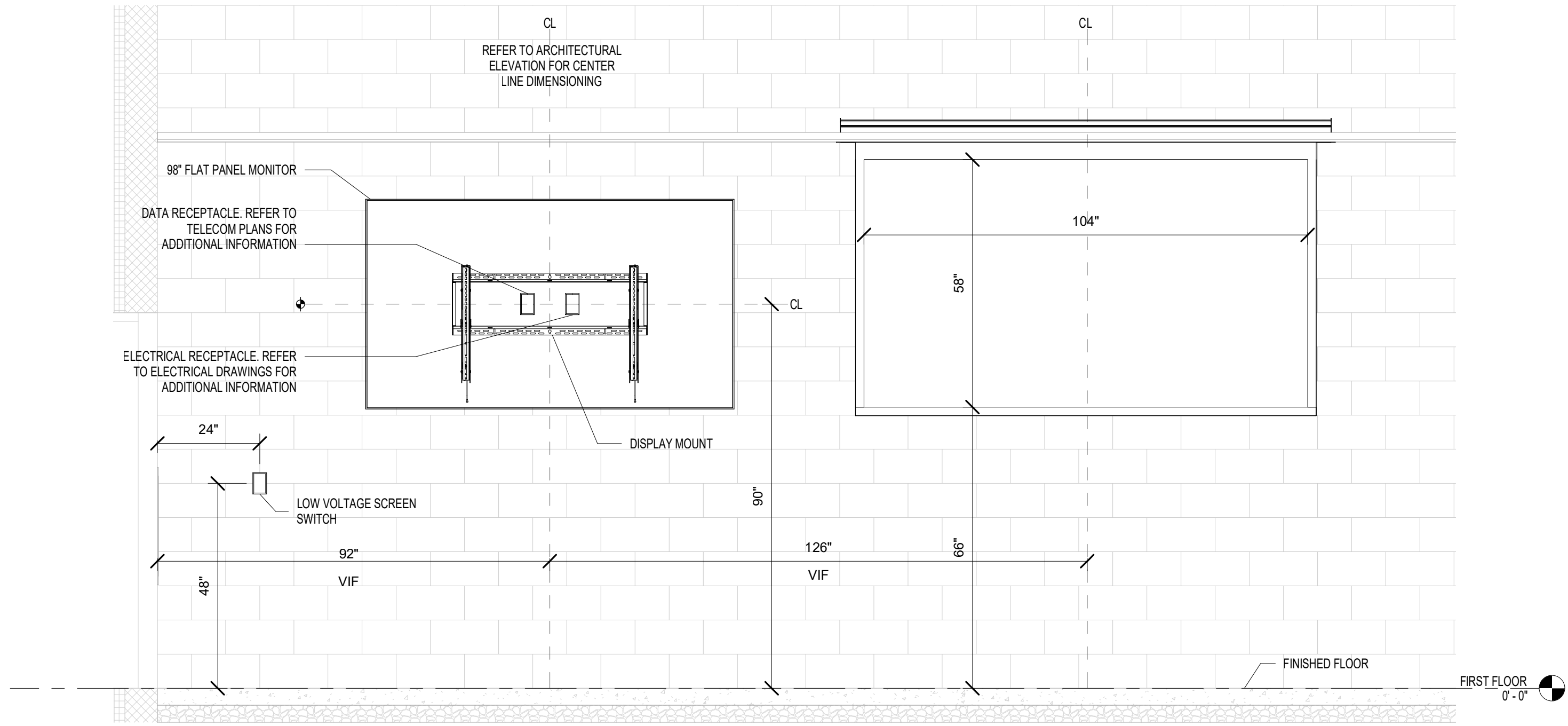
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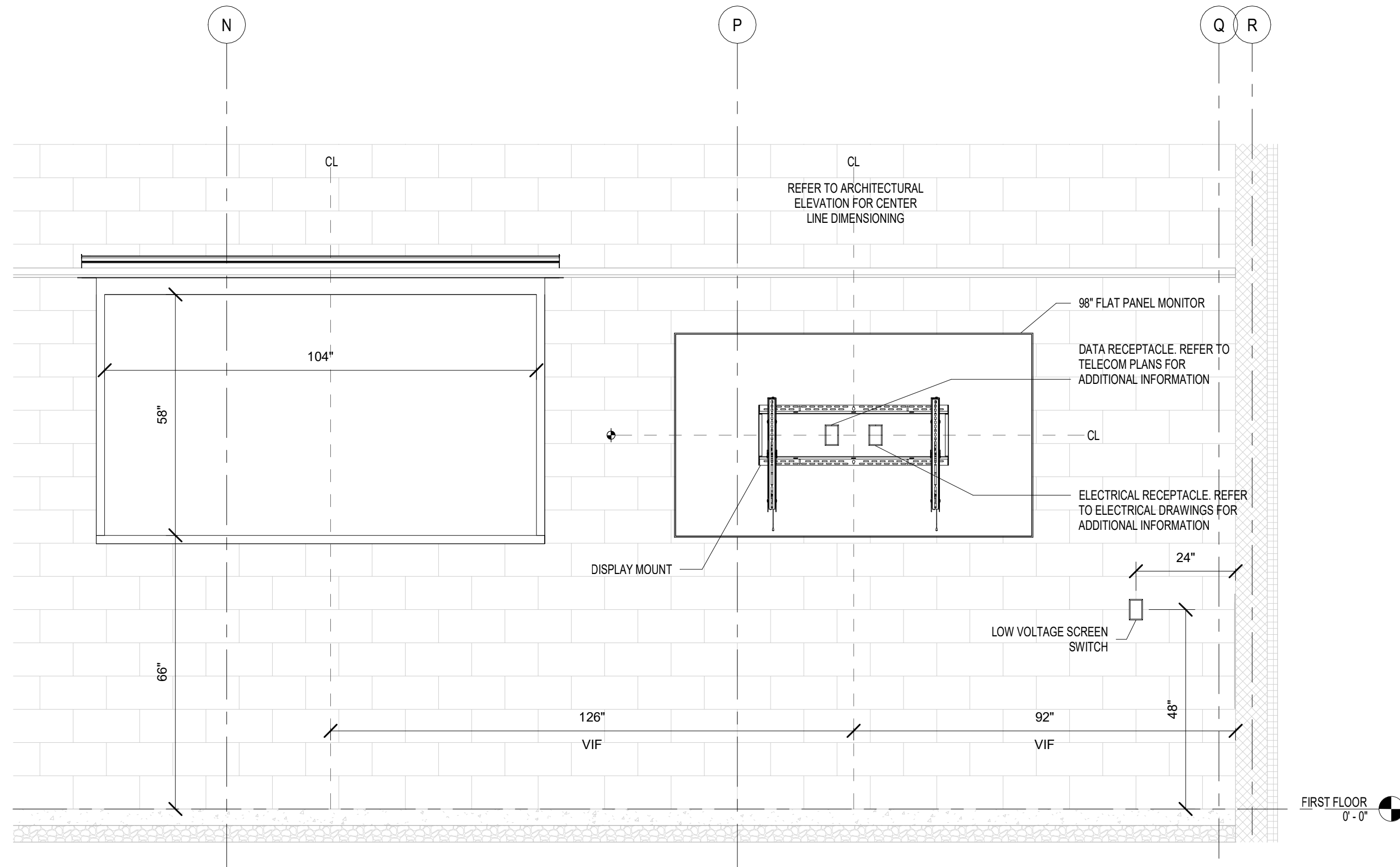
TA5.3



1 A141 LEARNING RESOURCE AREA LCD DISPLAY DETAIL
TA5.3 1/2" = 1'-0"



2 B100 LARGE CLASSROOM PROJECTION AND LCD DISPLAY DETAIL
TA5.3 1/2" = 1'-0"



3 B102 LARGE CLASSROOM PROJECTION AND LCD DISPLAY DETAIL
TA5.3 1/2" = 1'-0"

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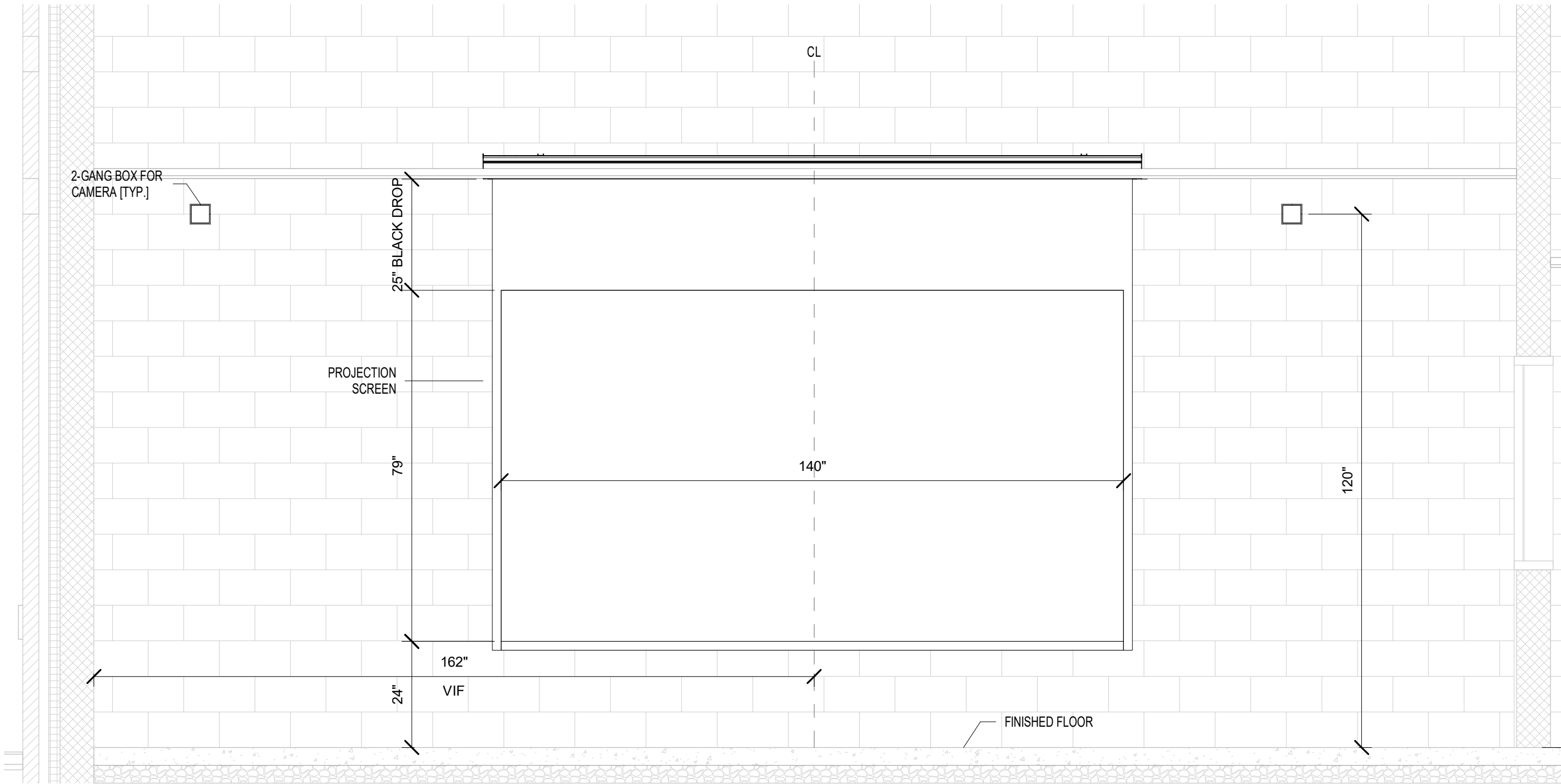
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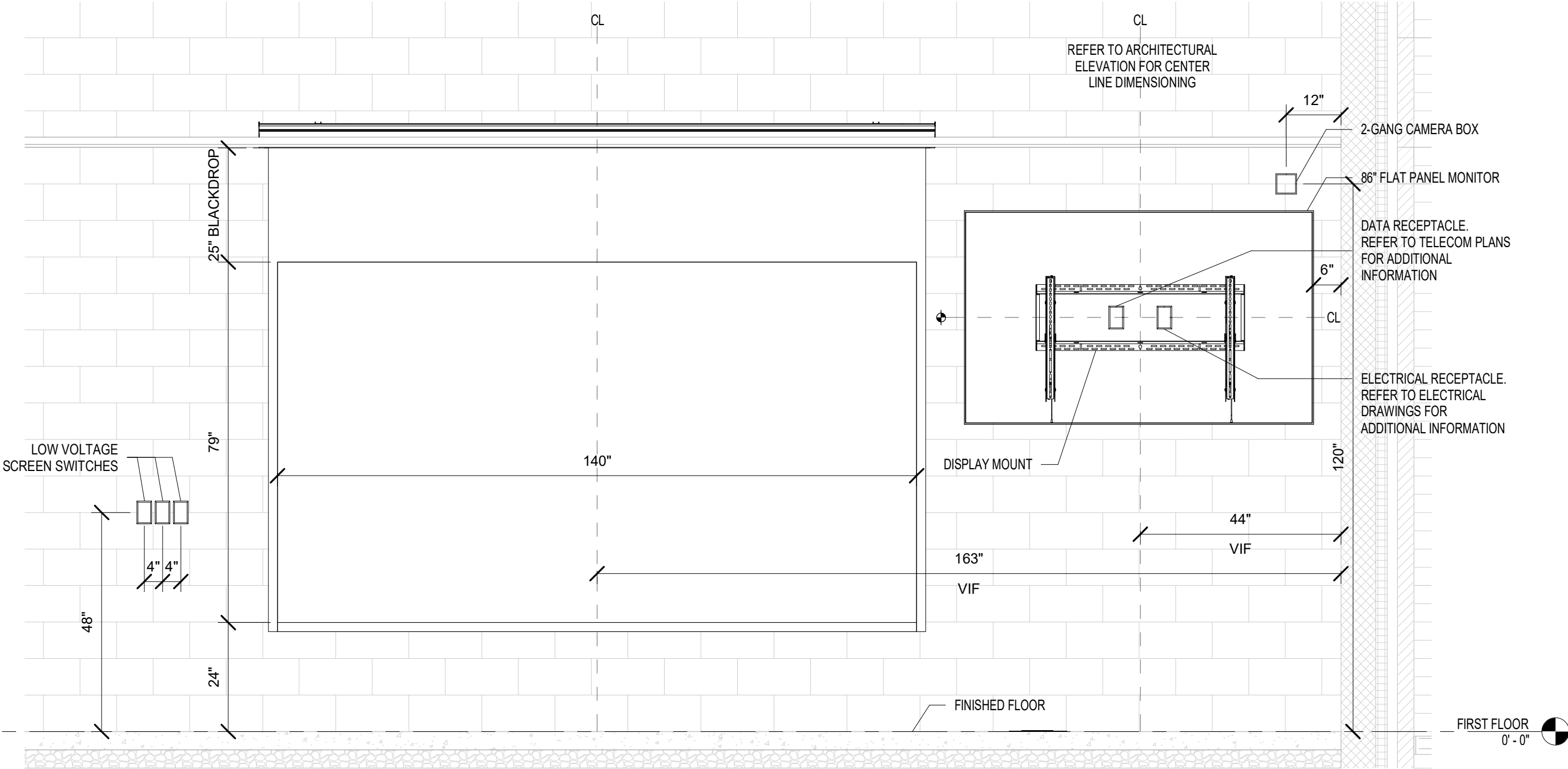
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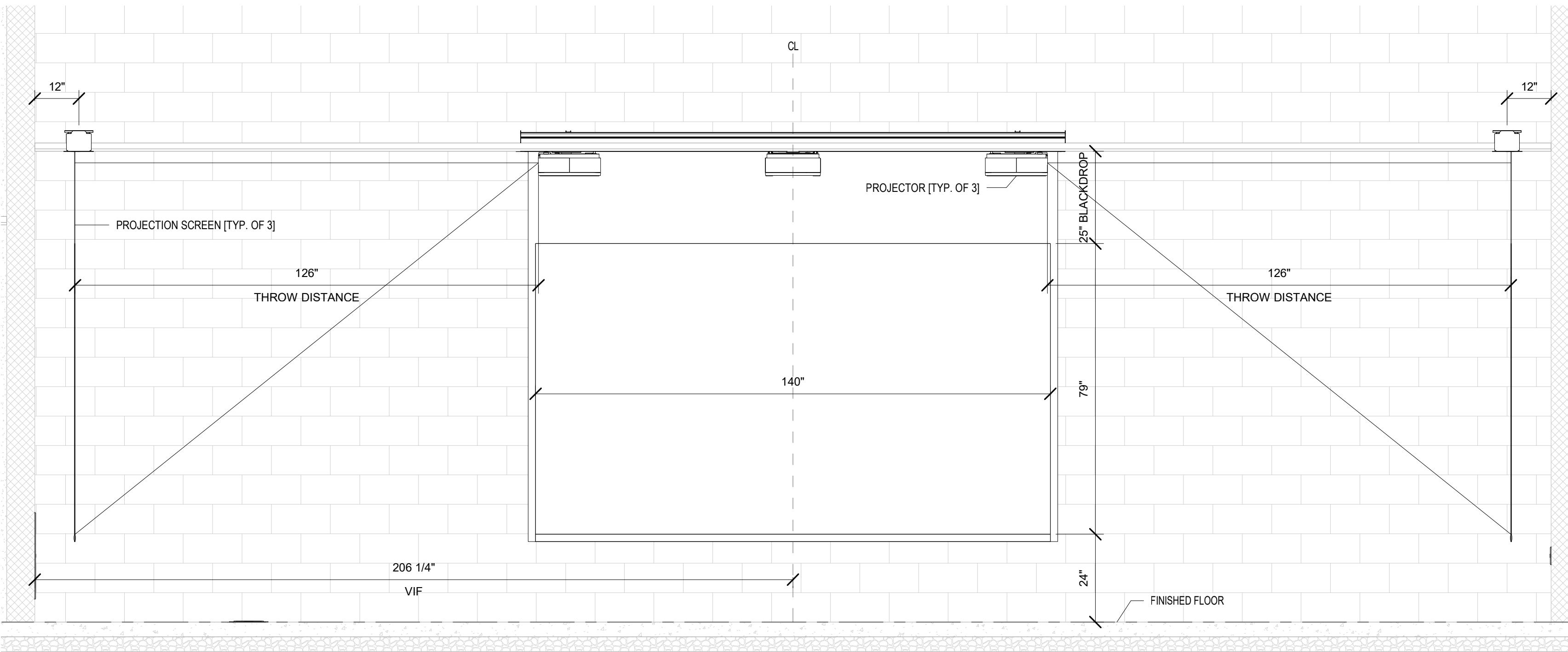
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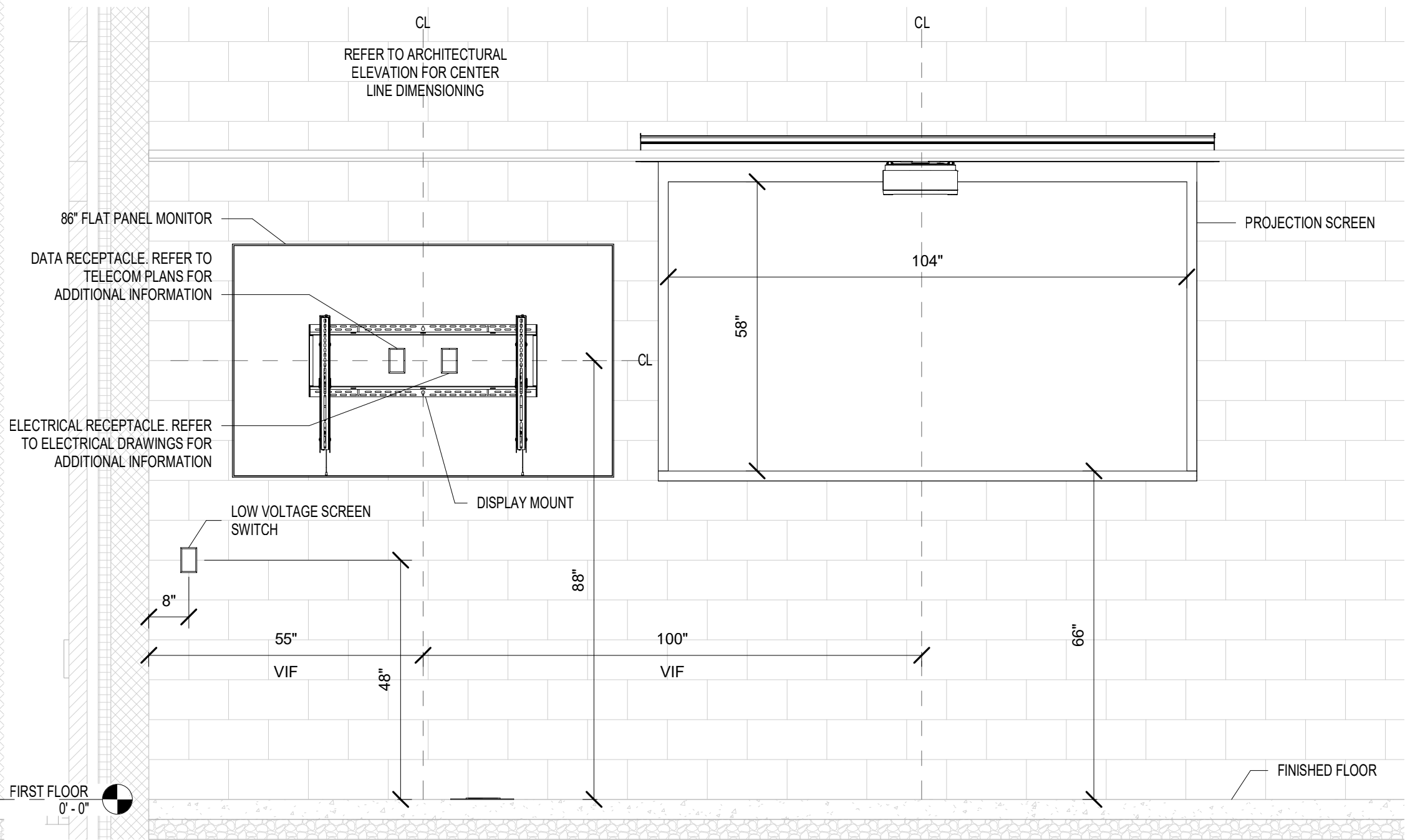
1 B109 SIMULATION LAB SIDE PROJECTION SCREEN DETAIL
TA5.4 1/2" = 1'-0"



2 B109 SIMULATION LAB SIDE VIEW LCD DISPLAY DETAIL
TA5.4 1/2" = 1'-0"



3 B109 SIMULATION LAB FRONT PROJECTION SCREEN DETAIL
TA5.4 1/2" = 1'-0"



4 B106 AND B116 SMALL CLASSROOM FRONT PROJECTION AND LCD DISPLAY DETAIL
TA5.4 1/2" = 1'-0"

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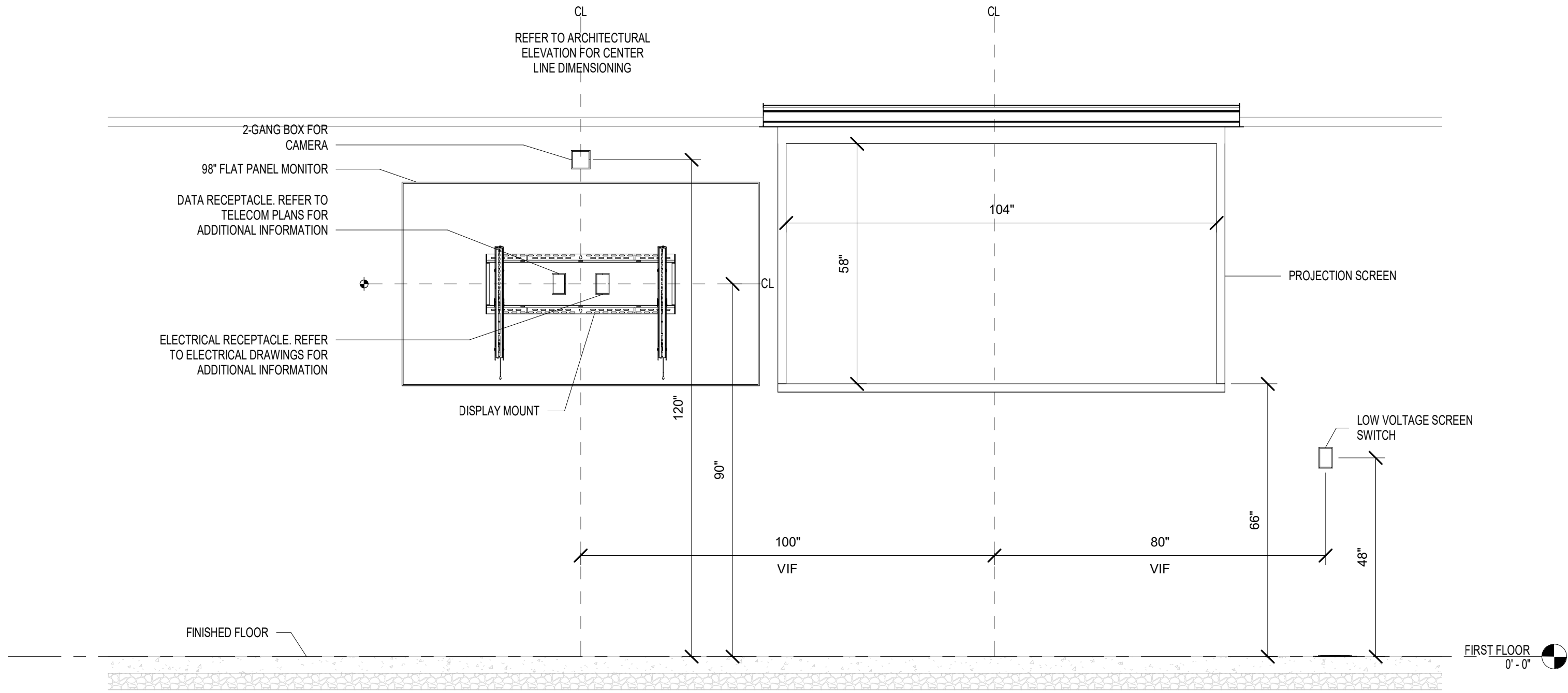
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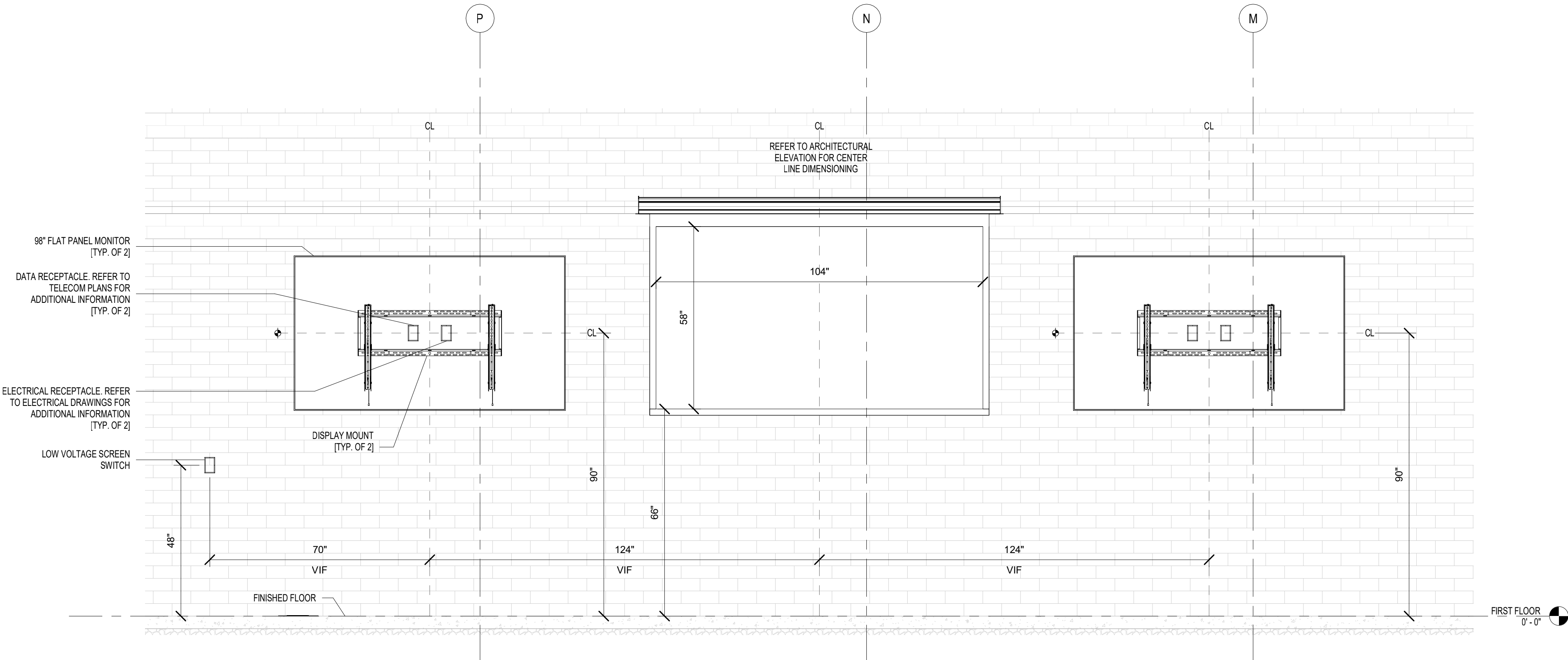
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TA5.5



1 B110 LARGE CLASSROOM FRONT PROJECTION AND LCD DISPLAY DETAIL
1/2" = 1'-0"



2 B110 LARGE CLASSROOM SIDE PROJECTION AND LCD DISPLAY DETAIL
1/2" = 1'-0"

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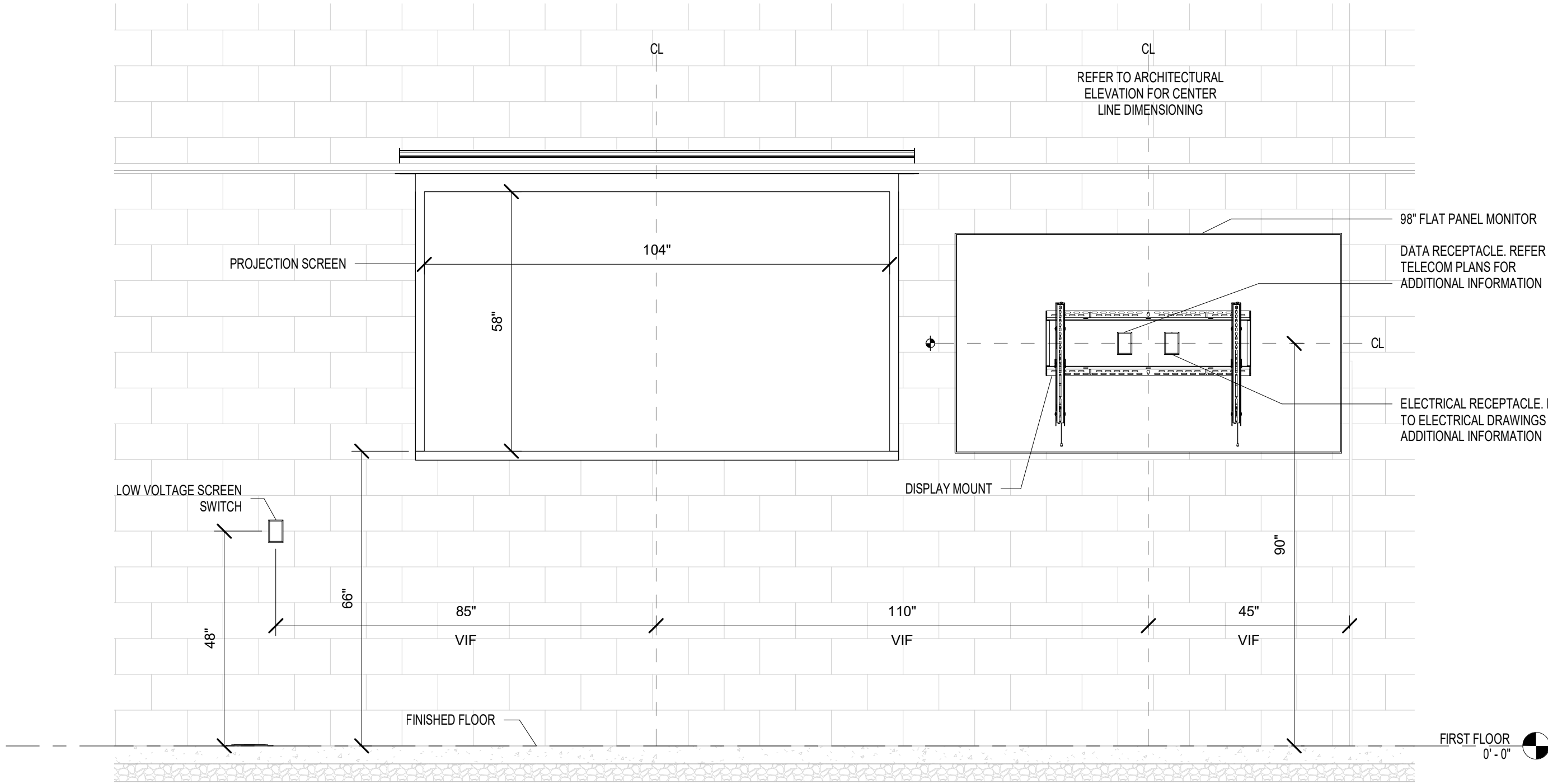
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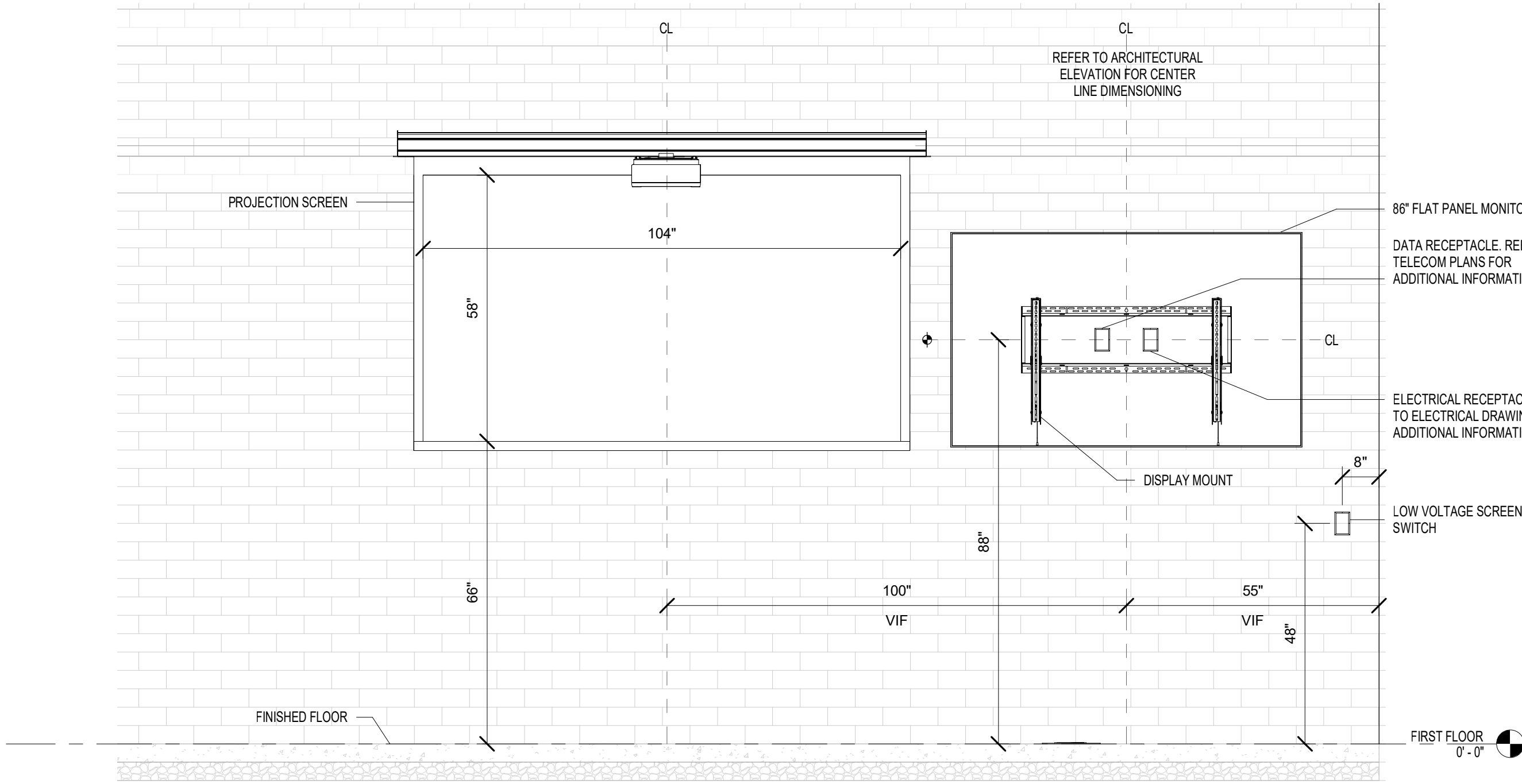
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TA5.6



1 B112 LARGE CLASSROOM FRONT PROJECTION AND LCD DISPLAY DETAIL
TA5.6 1/2" = 1'-0"



2 B119 SMALL CLASSROOM FRONT PROJECTION AND LCD DISPLAY DETAIL
TA5.6 1/2" = 1'-0"

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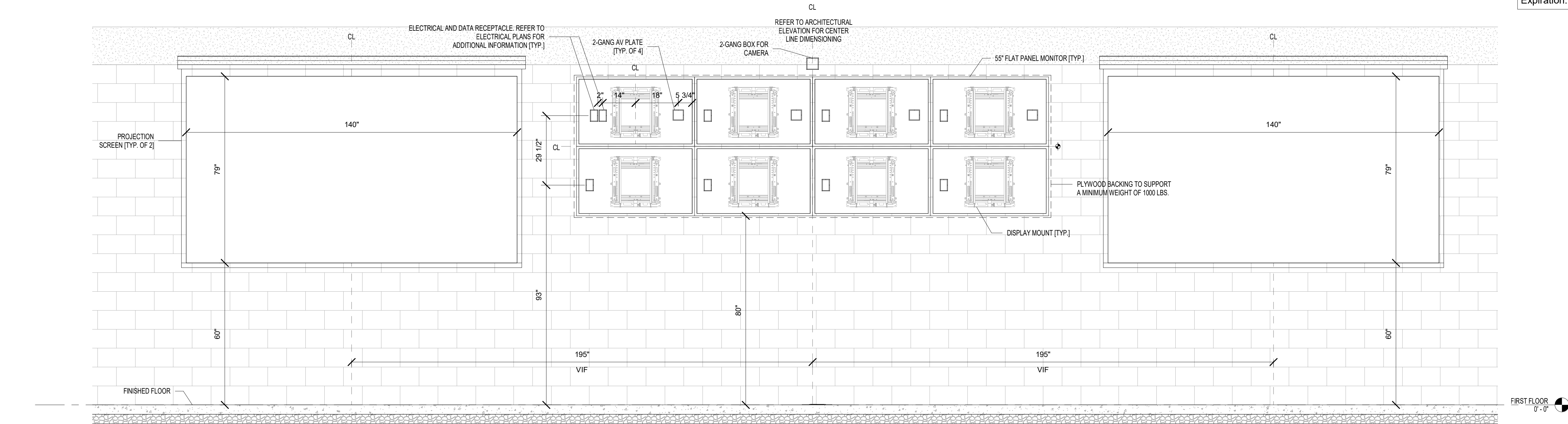
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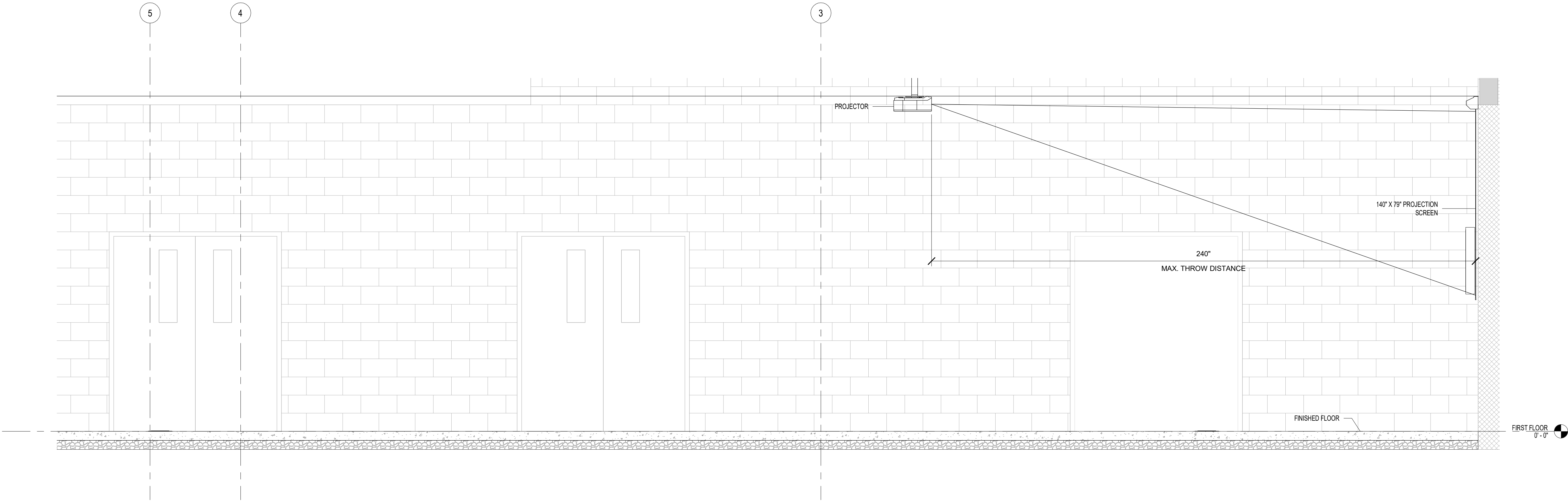
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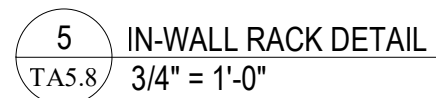
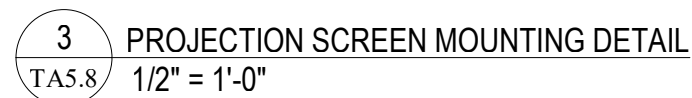
TA5.7



1 C100 MULTI-PURPOSE ROOM FRONT PROJECTION AND LCD DISPLAY DETAIL
1/2" = 1'-0"



2 C100 MULTI-PURPOSE ROOM SIDE PROJECTION SCREEN DETAIL
1/2" = 1'-0"



TA5.8

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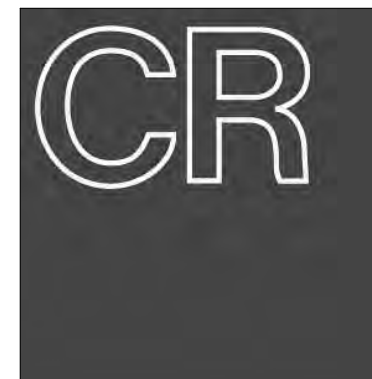
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RACK ELEVATION

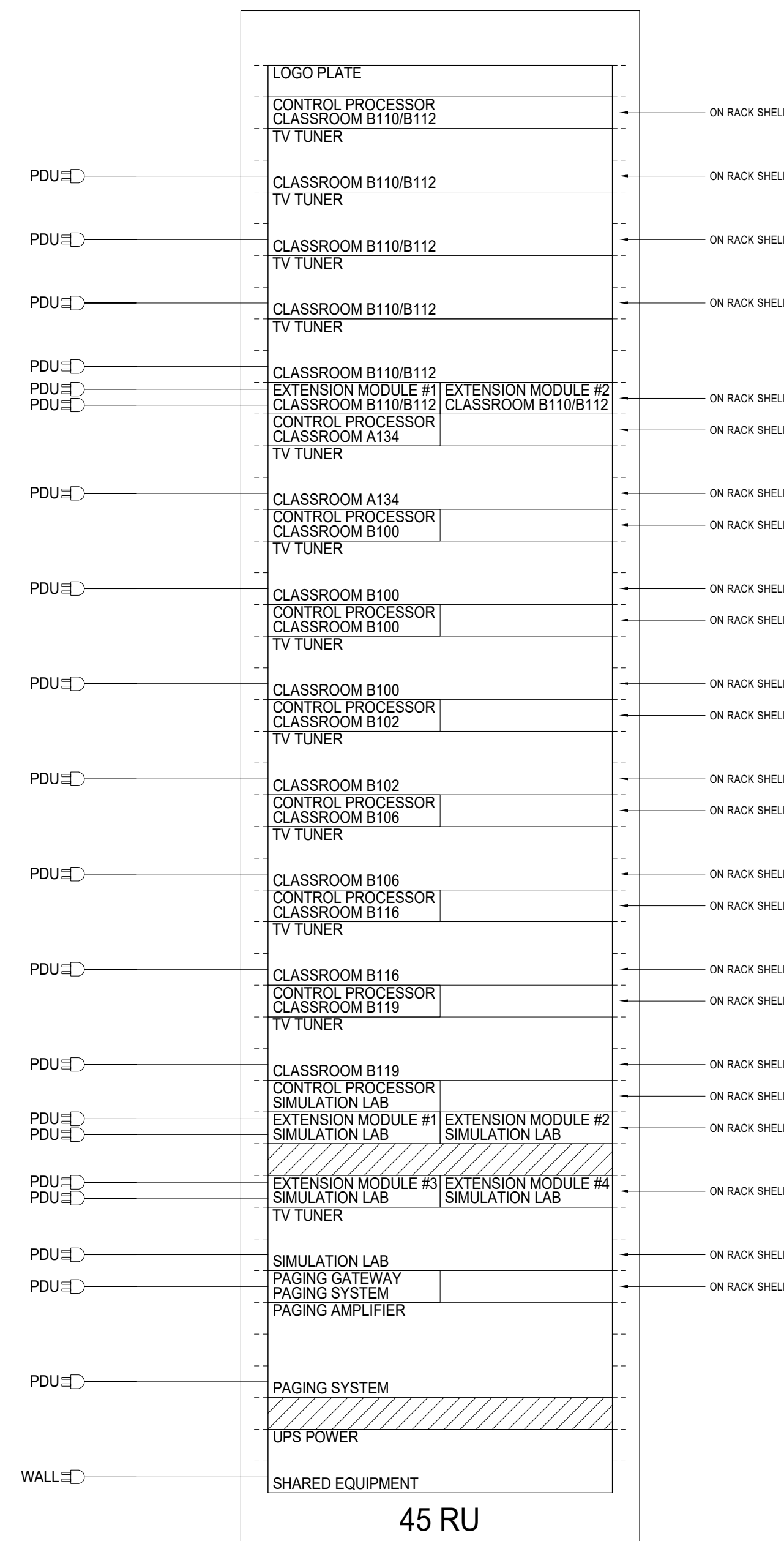
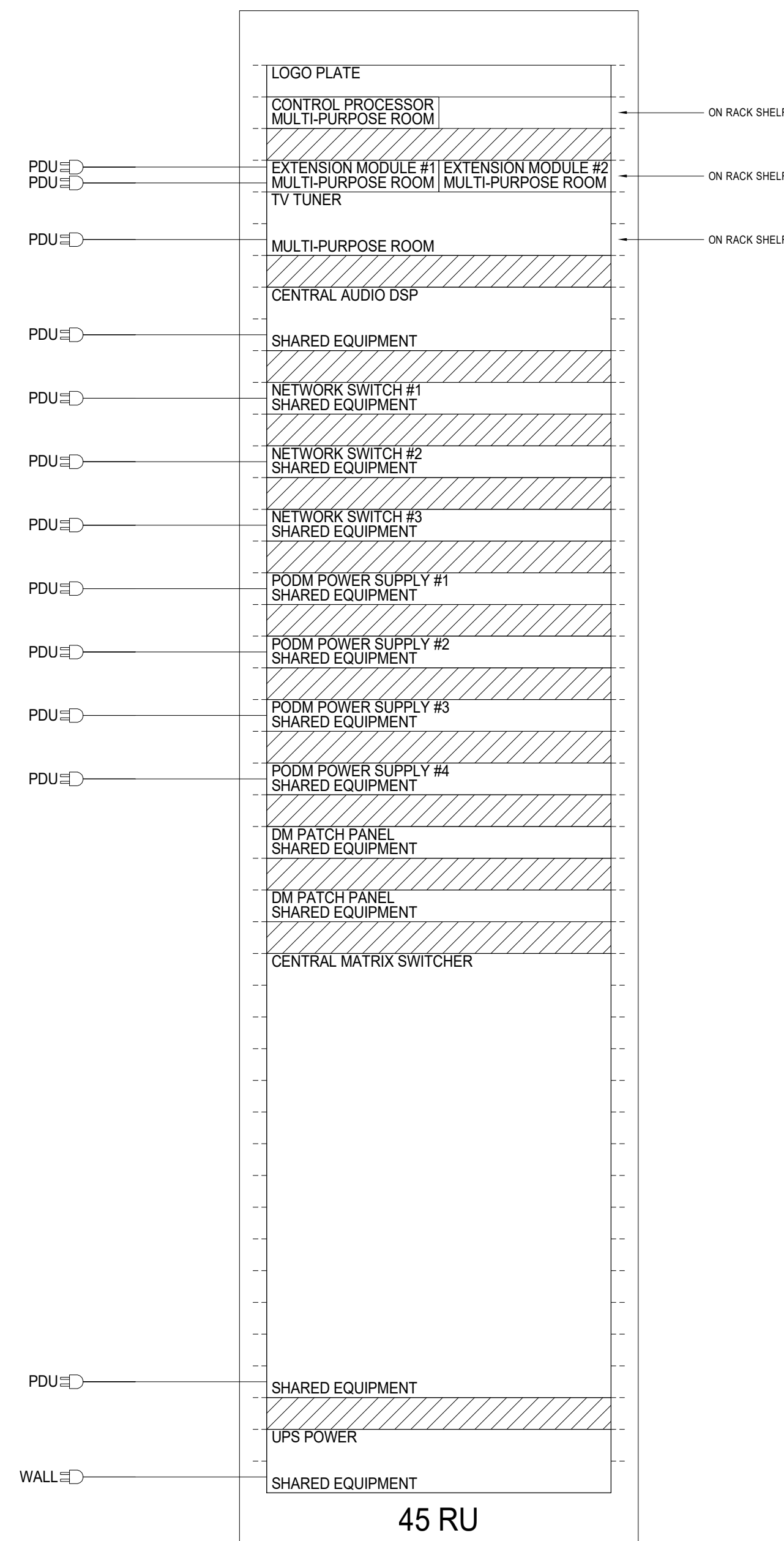
PLOT SCALE:

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TA6.1



1 TA6.1	SHARED EQUIPMENT RACKS N.T.S.
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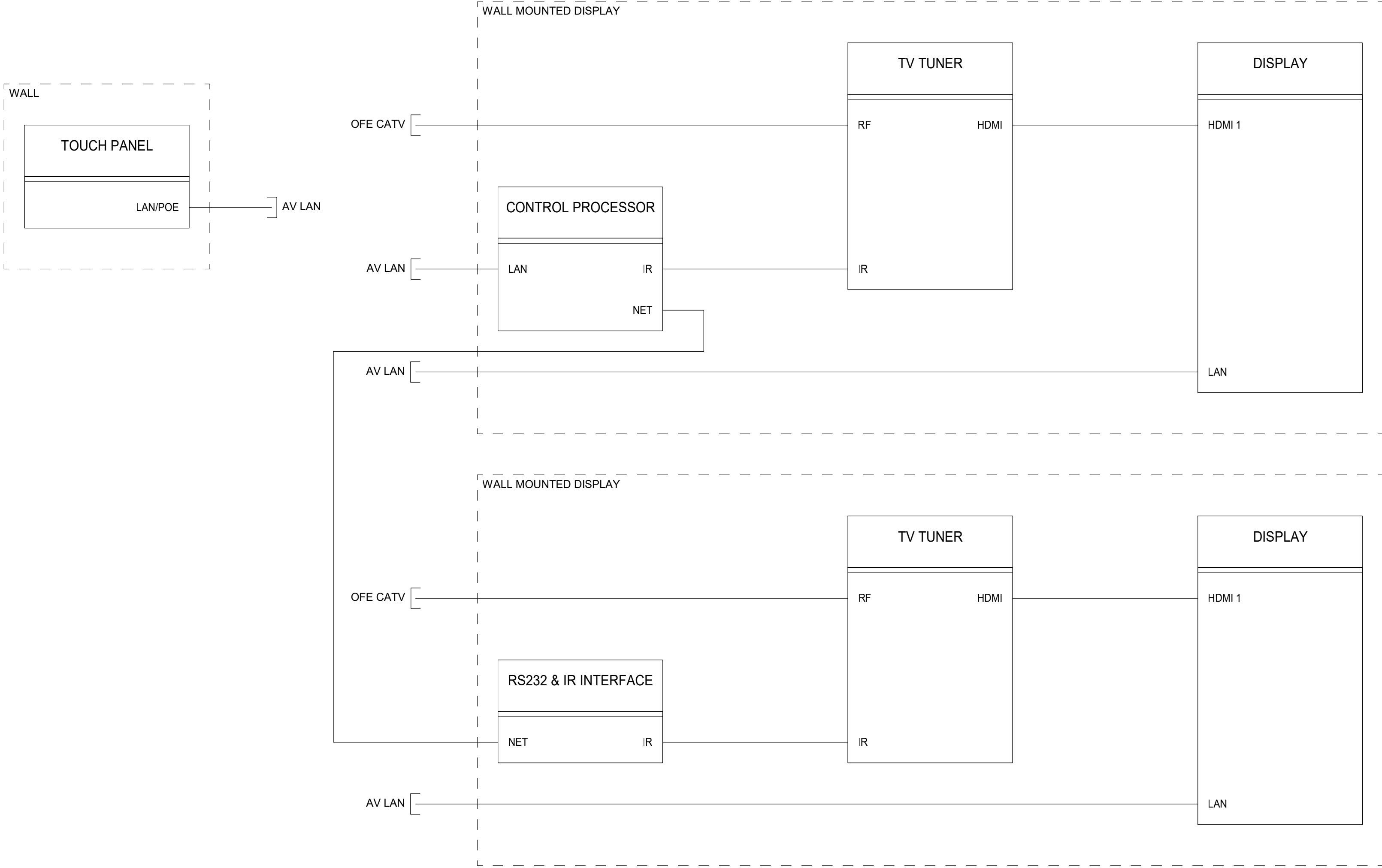
PROPOSED NEW
WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER
WASHINGTON COUNTY PROJECT NO. 28-266
18350 PUBLIC SAFETY PLACE
HAGERSTOWN, MD 21740



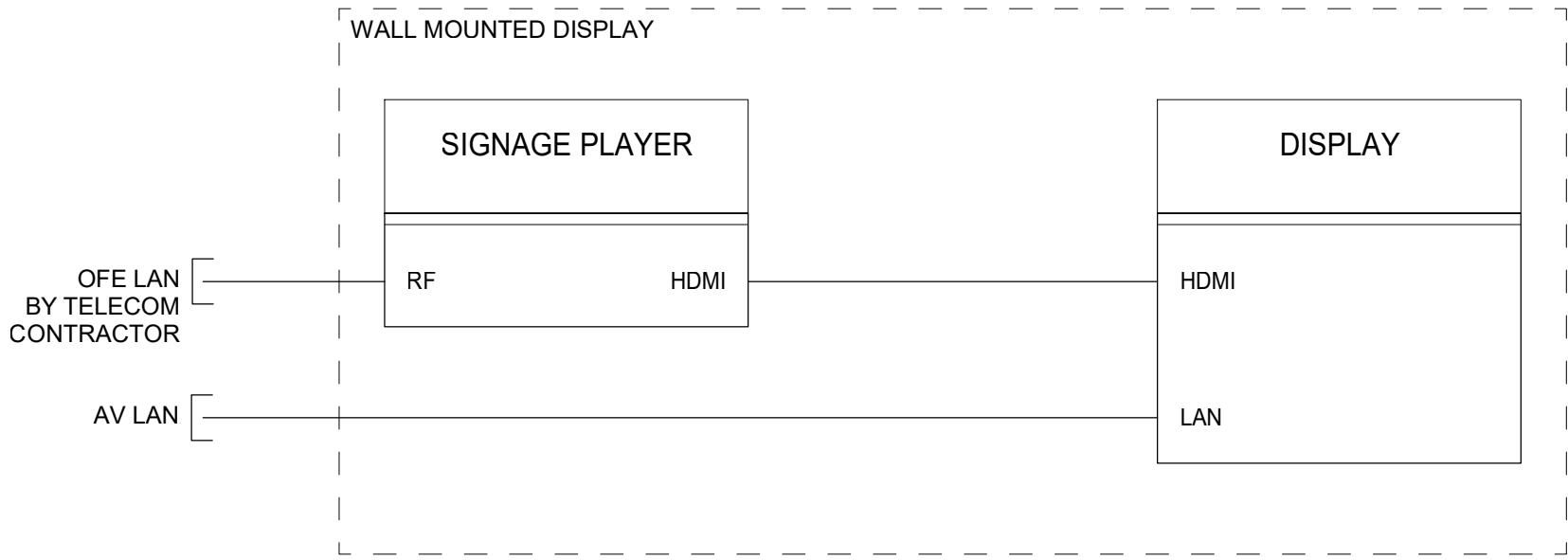
AUDIOVISUAL LOGICAL
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PLOT SCALE:
FILENAME:
DATE: DECEMBER 18, 2019

PROJECT
3089

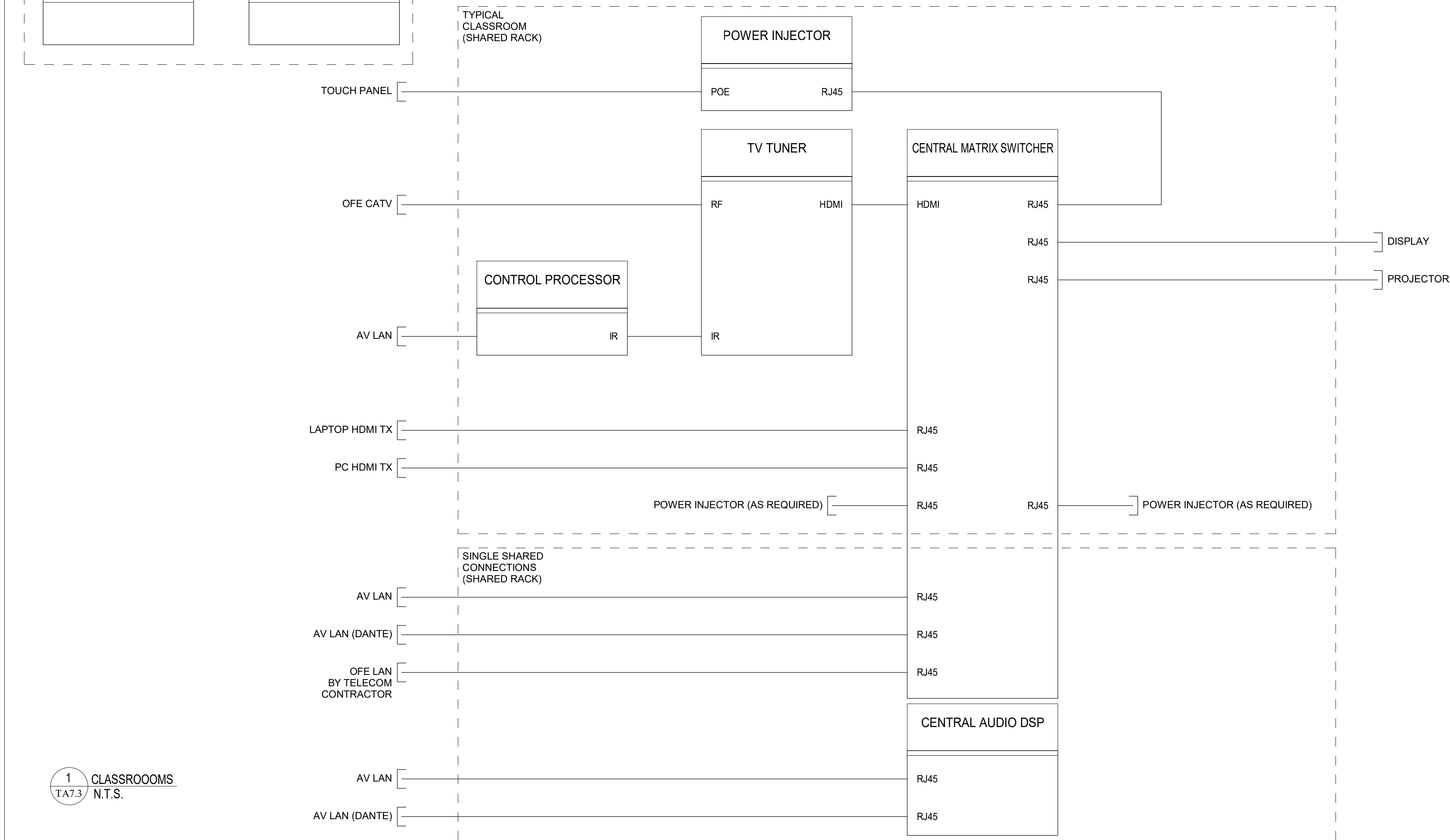
TA7.2



1 WEIGHT ROOM
TA7.2 N.T.S.



2 LOBBY
TA7.2 N.T.S.

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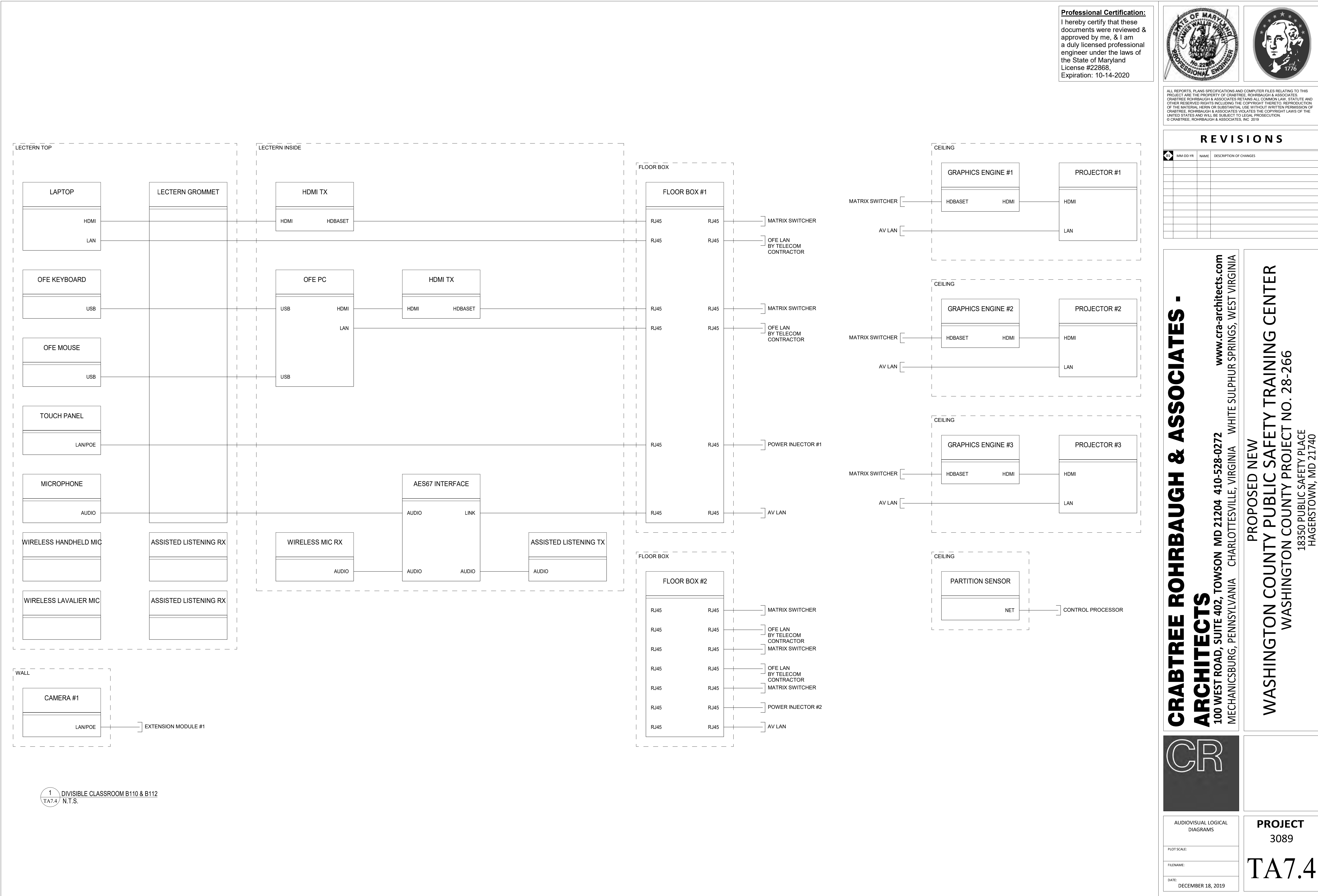
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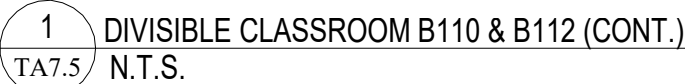
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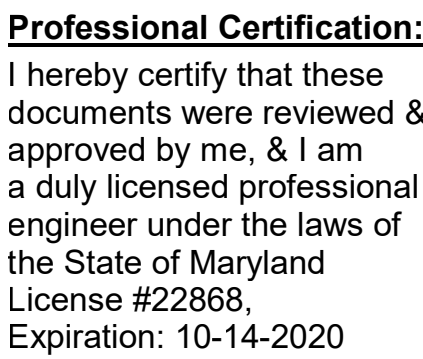
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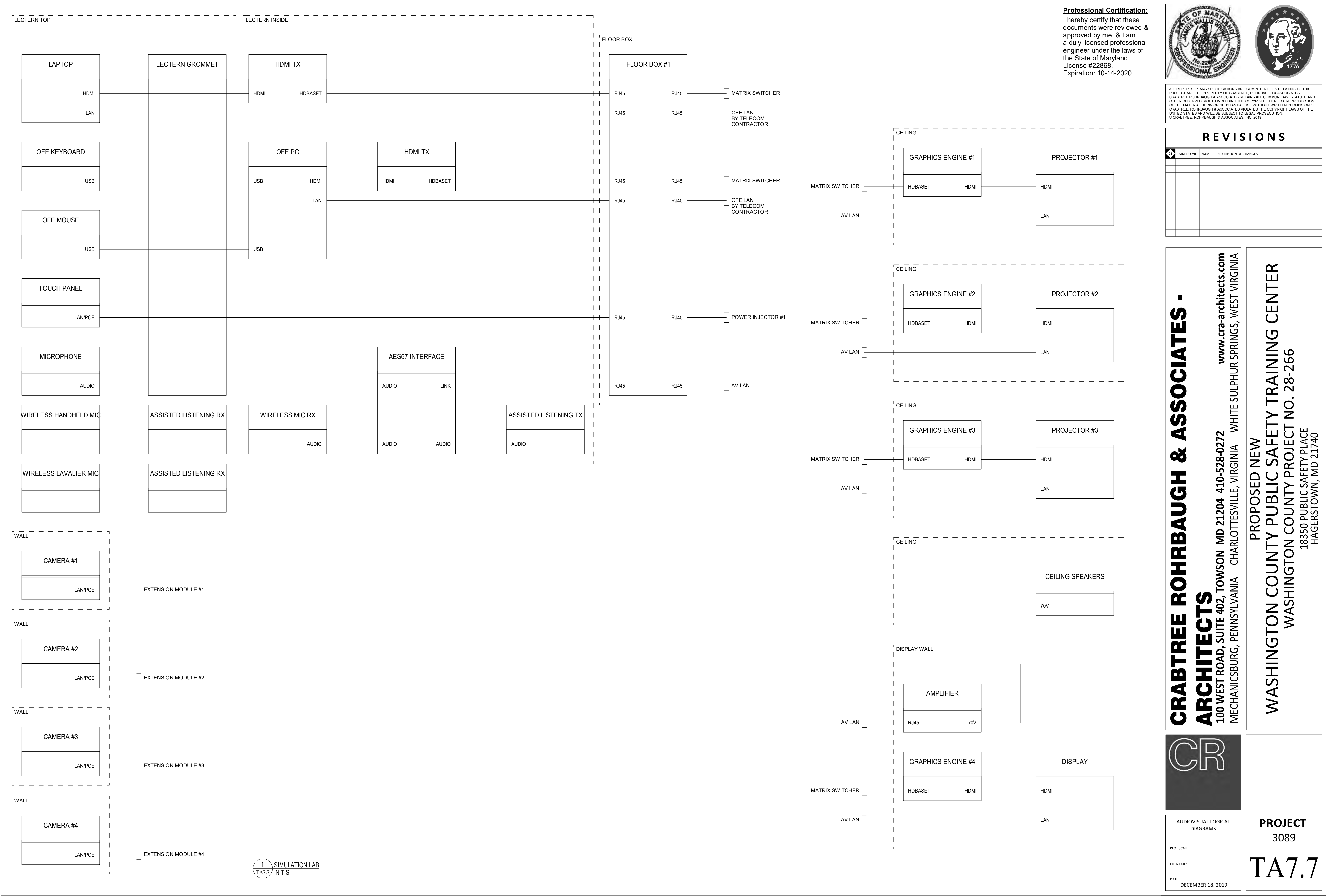


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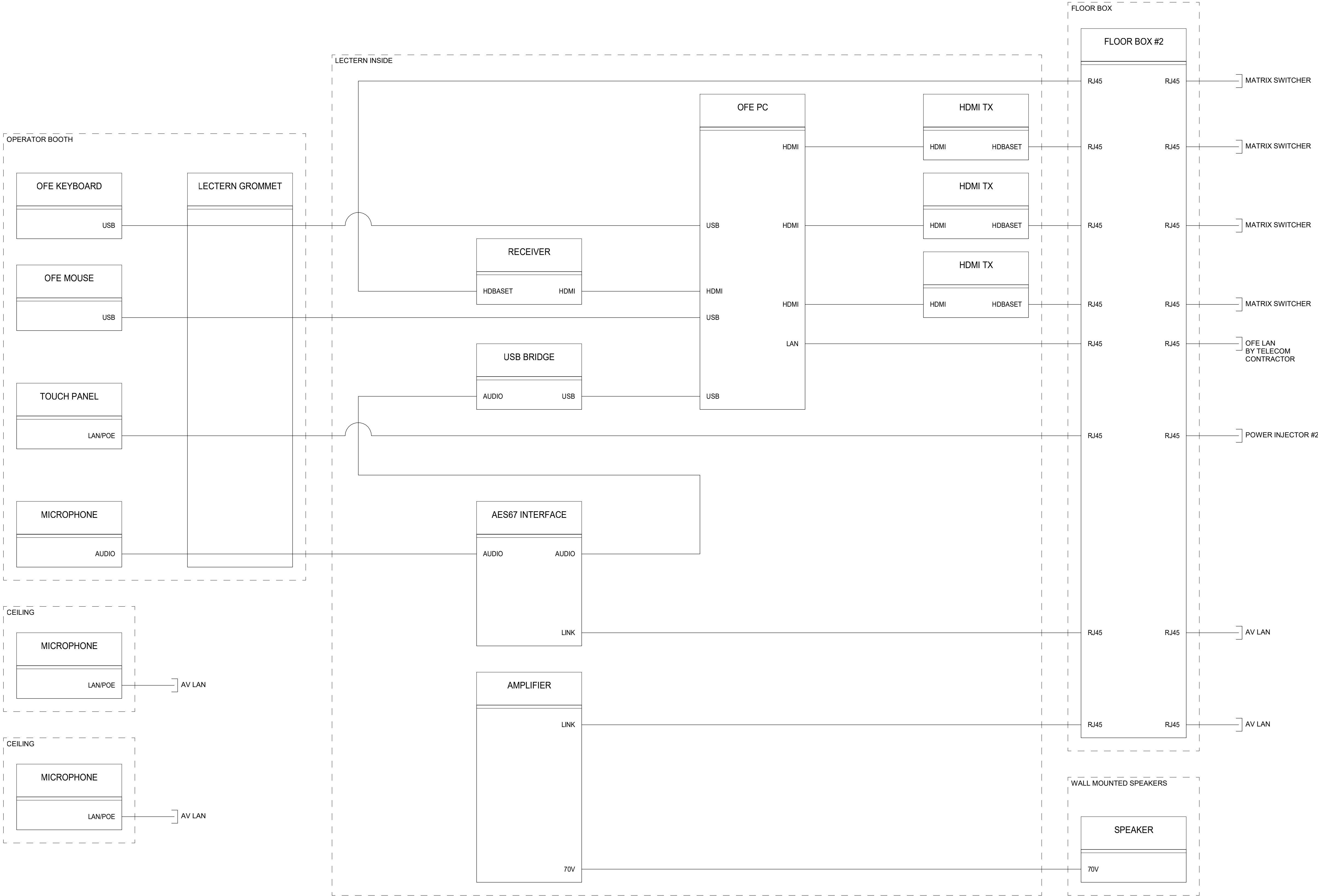
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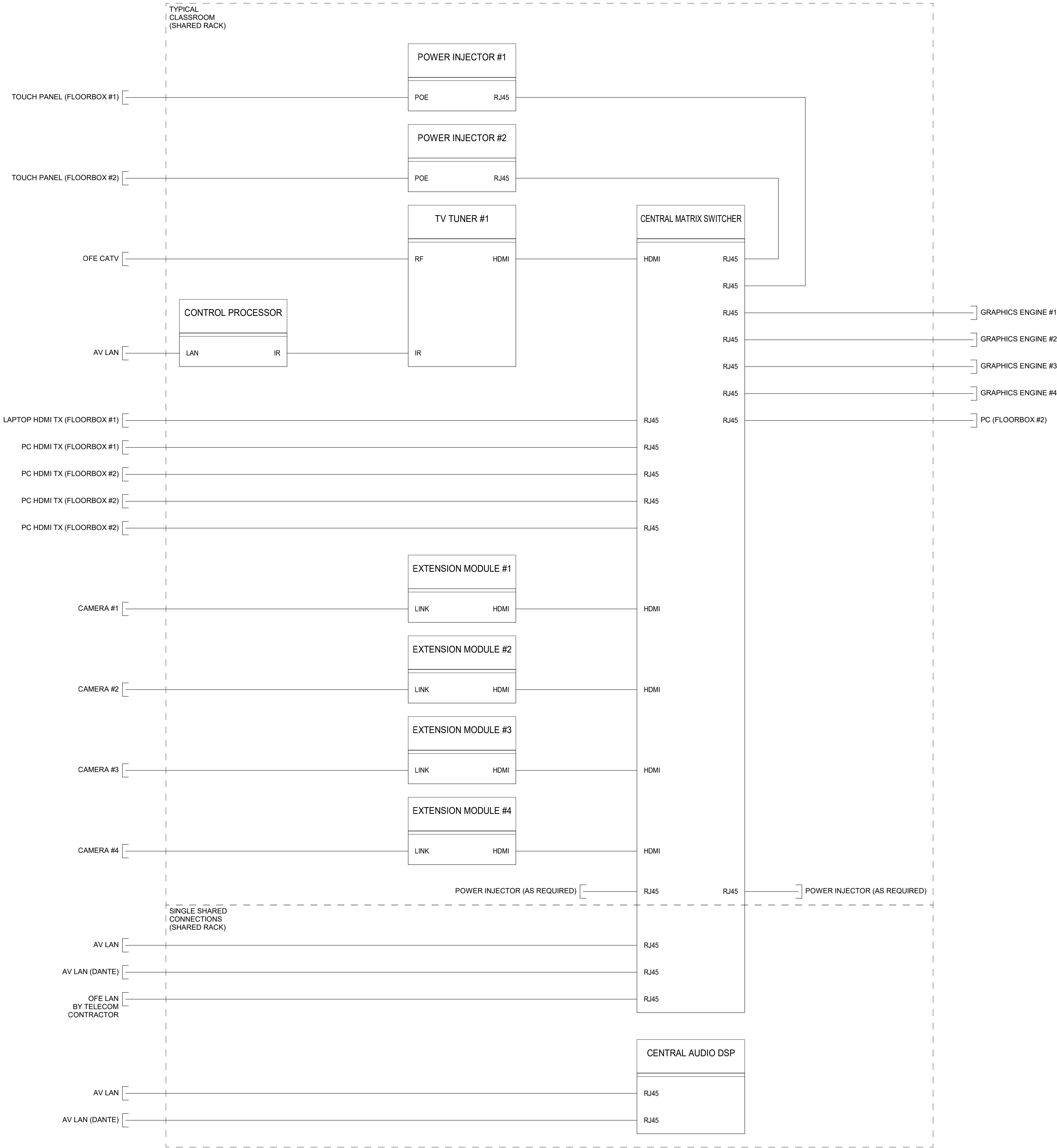


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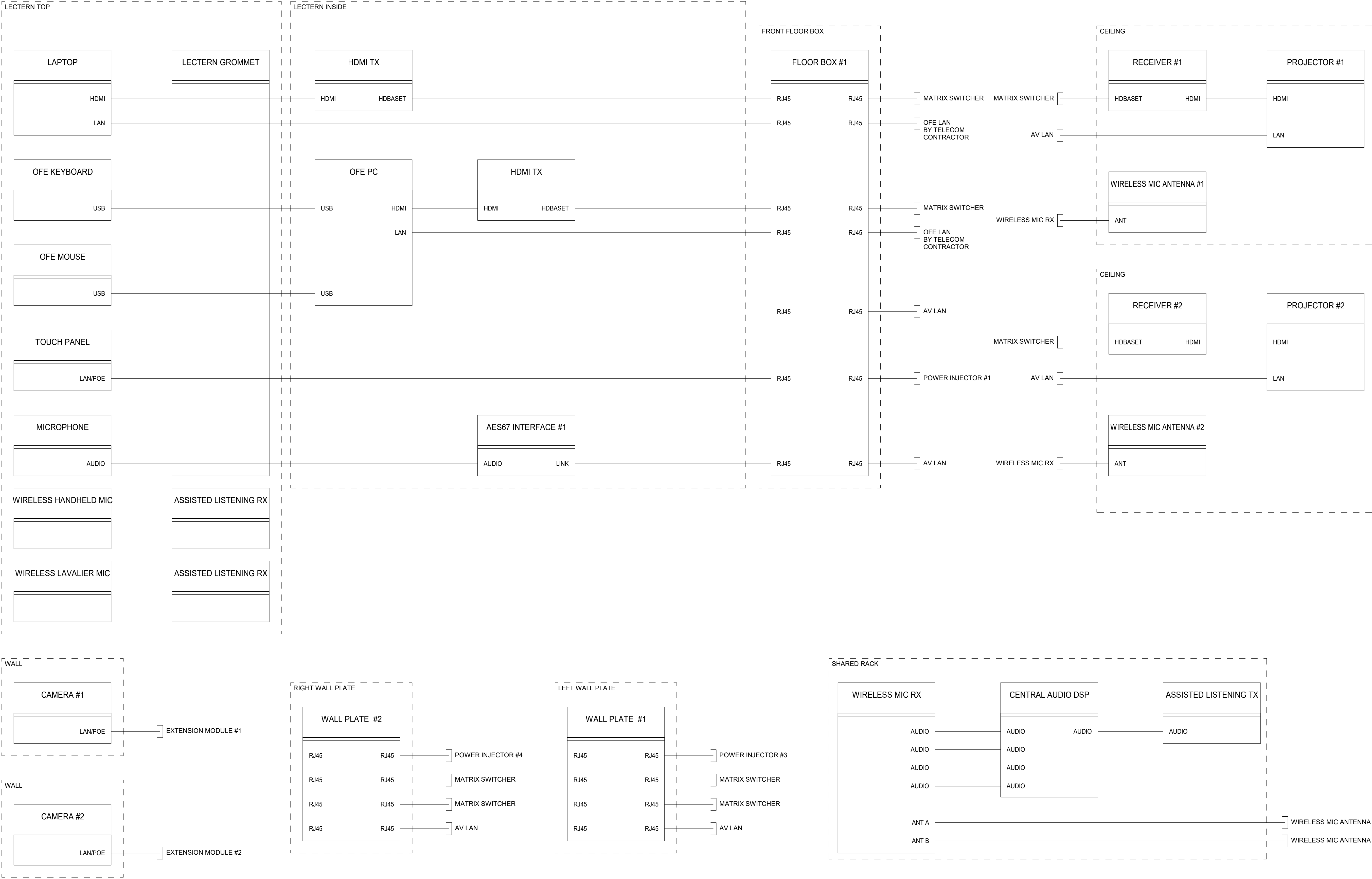
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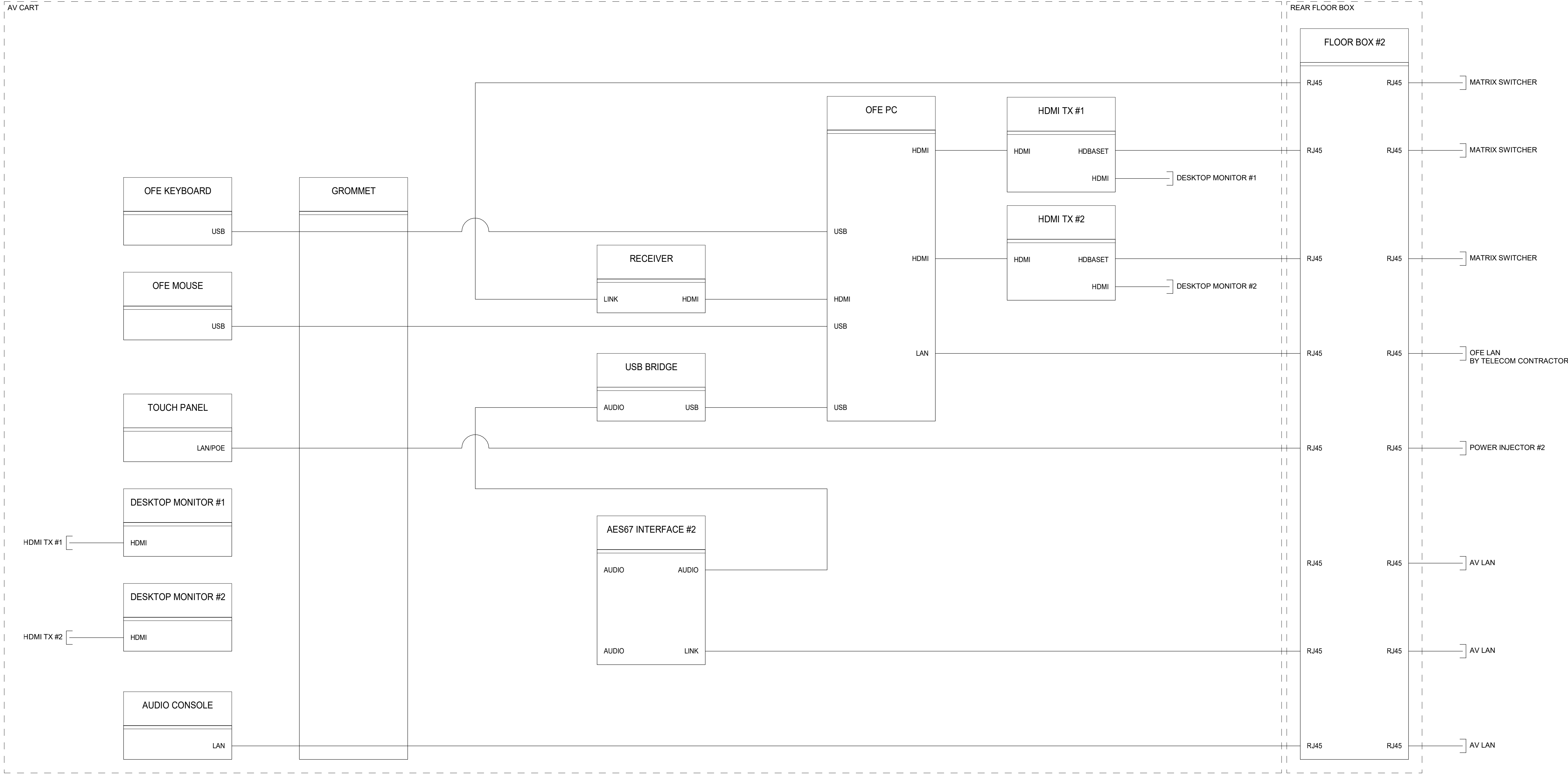
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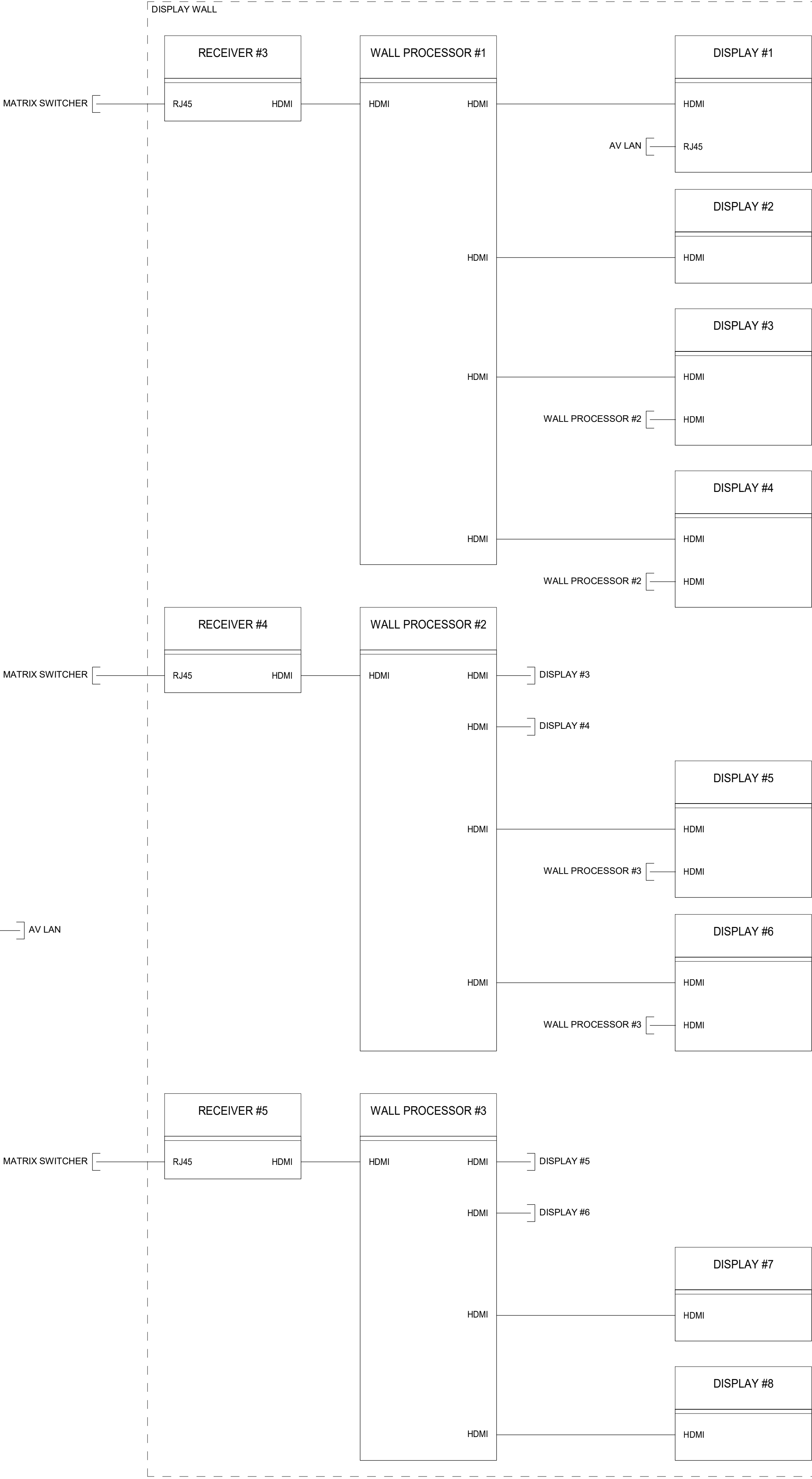
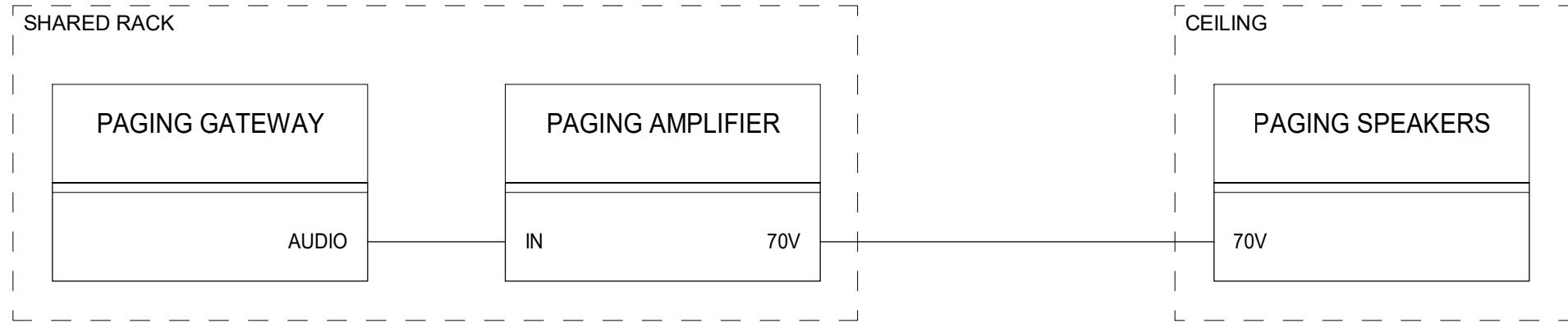
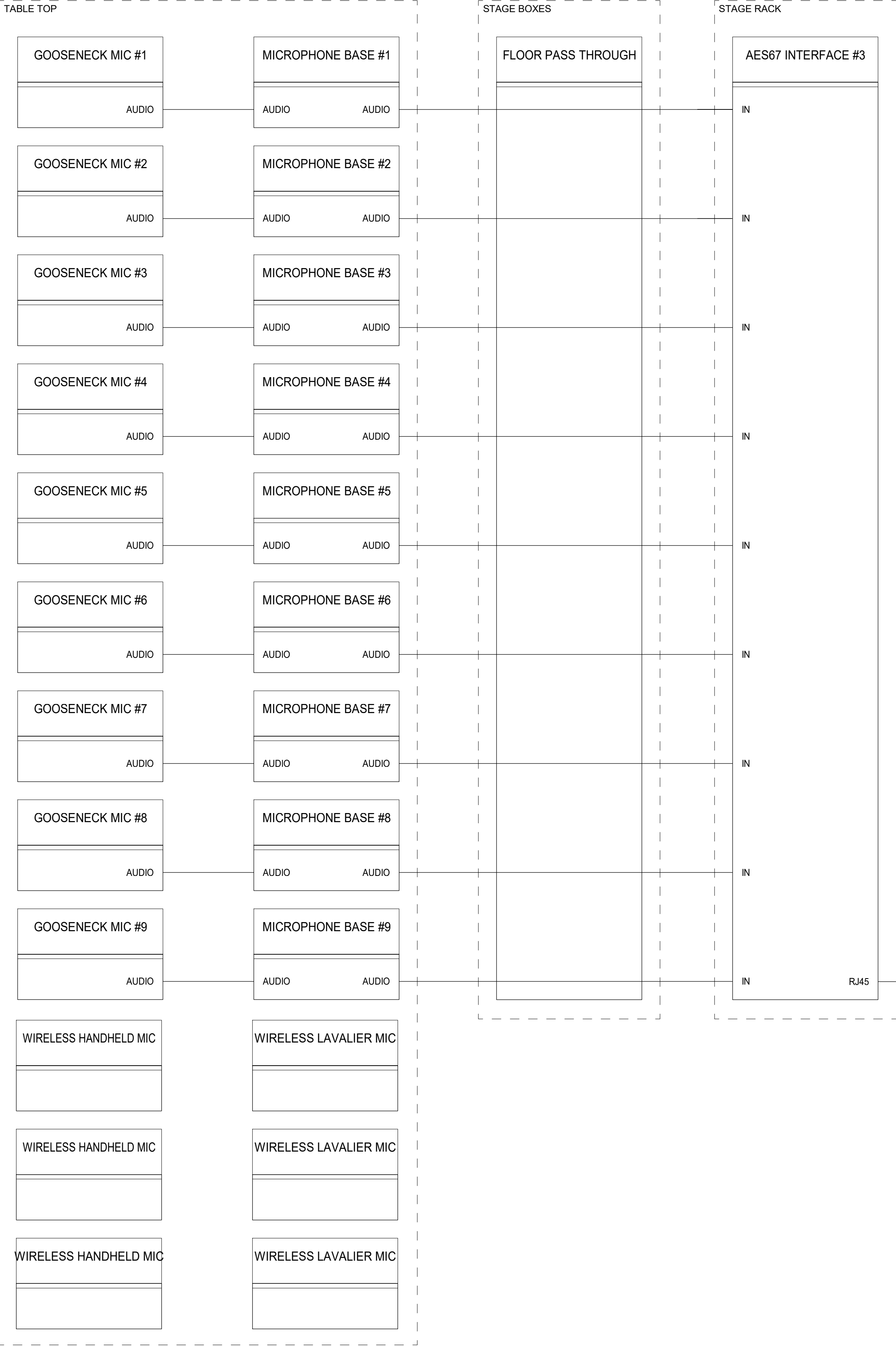
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1 MULTI-PURPOSE ROOM (CONT.)
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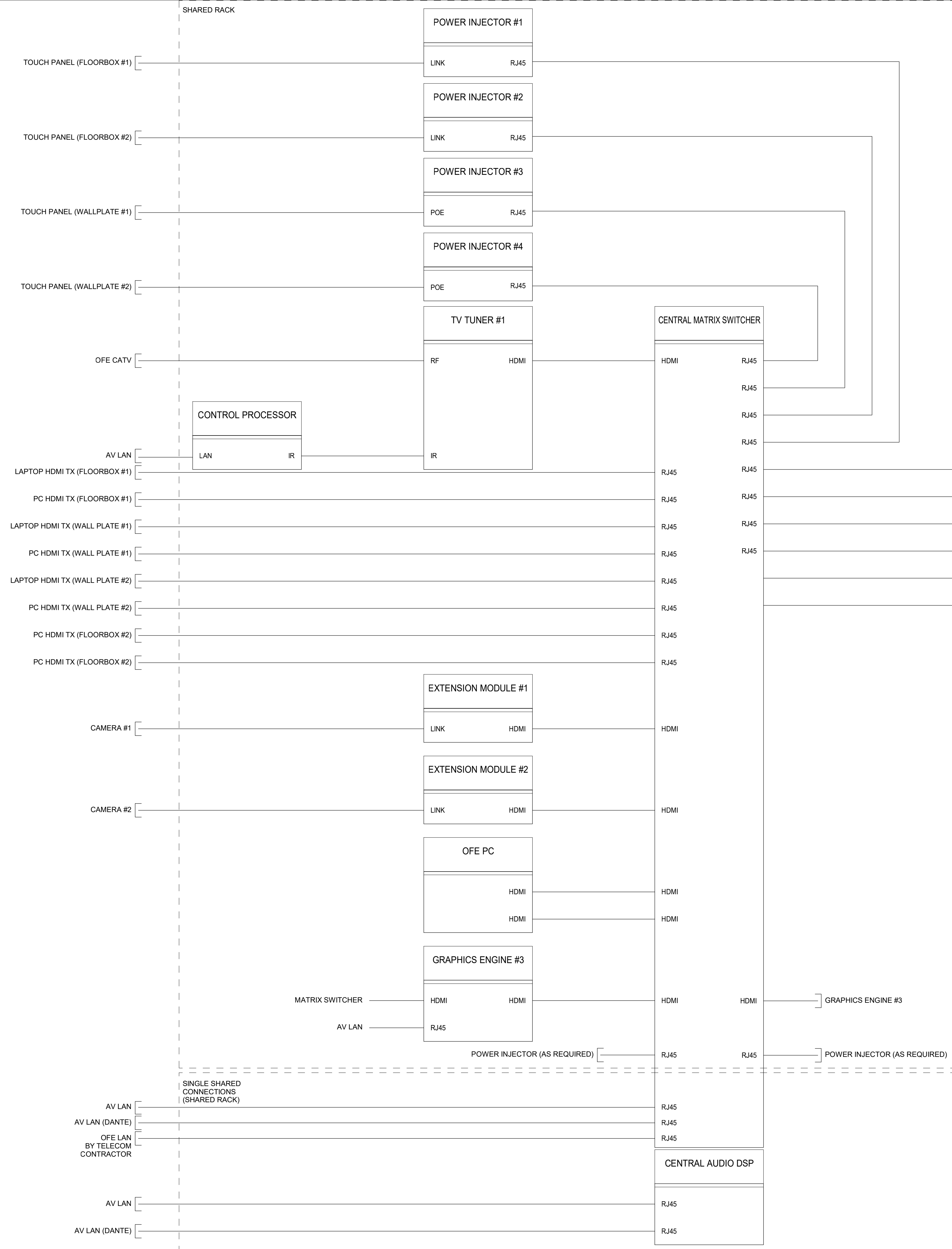
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