

GENERAL NOTES

SPECIFICATION REFERENCES: 1. REFER TO DIVISION 27 SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" AND RELATED DOCUMENTS AND SECTIONS FOR PRODUCT INFORMATION AND ADDITIONAL REQUIREMENTS.

2. CATEGORY AND FIBER CABLE SHALL BE INSTALLED, TERMINATED, AND TESTED PER DIVISION 27 SECTION "TELECOMMUNICATIONS REQUIREMENTS FOR AUDIO-VIDEO SYSTEMS".

GENERAL PATHWAY NOTES: 1. ALL BUILDING INFRASTRUCTURE, CONDUIT, AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, RACEWAYS, CABLE TRAYS, PEDESTALS, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, DOORS, LIDS, AND COVERS ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.

2. REFER TO "CONDUIT ROUTING AND SEPARATION" ON THIS SHEET FOR CONDUIT SPACING INFORMATION. 3. PROVIDE CONTINUOUS UNOBSTRUCTED CABLE PATH FOR ENTIRE LENGTH OF CABLE RUN. EXPOSED CABLING MAY REQUIRE CONDUIT TRANSITIONS TO ACHIEVE A COMPLETE PATHWAY.

BOX SCHEDULE NOTES: 1. VERIFY QUANTITIES, LOCATIONS, AND MOUNTING WITH PLAN, DETAIL, AND EQUIPMENT VIEW DRAWINGS. 2. ALL BOXES SHOWN IN SCHEDULE ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.

GENERAL PANEL AND PLATE NOTES: 1. CUSTOM TERMINATION COVER PANELS AND PLATES SHALL BE PROVIDED PER SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" REQUIREMENTS AND SHALL BE SIZED TO APPROPRIATELY SELF-TRIM THEIR CORRESPONDING BACK BOX.

CABLE TERMINATION NOTES: 1. ALL AUDIO TERMINATIONS SHOULD COMPLY WITH RANE CORPORATION RANENOTE 110 REFERENCE FOR SOUND SYSTEM INTERCONNECTION. WWW.RANECOMMERCIAL.COM/LEGACYLIBRARY.HTML

EQUIPMENT RACK NOTES: 1. REFER TO SPECIFICATIONS FOR RACK LAYOUT SUBMITTAL REQUIREMENTS. 2. ANY RACK LAYOUTS OR INFORMATION RELATED TO EQUIPMENT RACKING CONTAINED IN THIS SET ARE FOR CONCEPT ONLY. VERIFY RACK LAYOUT FOR EQUIPMENT FURNISHED PRIOR TO SUBMITTAL OF SHOP DRAWINGS. REVISE AS REQUIRED FOR ALTERNATES ACCEPTED OR REJECTED.

WIRE TYPE AND ABBREVIATIONS

Table with columns: (NOTE 1) ABBREVIATION, DEFINITION OR SIGNAL TYPES, WIRE TYPE, (NOTE 2). Includes entries for AB, AEC, AES, AN, CC, Cc, Cj, D, DM, DP, FW, GHIO, H, HDSDI, IC, IR, IO, L, LAN, LS70, M, MADI, MIDI, MMF, Mono, Phone, R, Ref, RF, SAT IF, SDI, SMF, SPDIF, ST, TLY, TB, TC, TIE LINES, TPA, TPC, TPT, TPV, TRIAX, TV, USB, USB1, USB2, USB3, V, Y, 3GSDI, 4GSDI, NOTES.

AUDIO-VIDEO SYMBOLS

Audio-Video Symbols section containing: AUDIO (Signal Flow, Panel/Plate, Description), VIDEO (Signal Flow, Panel/Plate, Description), CONTROL (Signal Flow, Panel/Plate, Description), DATA (Signal Flow, Panel/Plate, Description), DEVICES AND CONNECTIONS (Signal Flow, Description), AUDIO-VIDEO (Signal Flow, Panel/Plate, Description). Includes various connector symbols like RCA, XLR, BNC, and SDI.

CONDUIT/CIRCUIT GROUP DIVISIONS

Table with columns: GROUP, DESCRIPTIONS, LEVEL, BANDWIDTH. Lists categories like CONTROL CIRCUITS, DATA CIRCUITS, FIBER CIRCUITS, LINE LEVEL AUDIO CIRCUITS, etc.

CONDUIT ROUTING AND SEPARATION

Both EMT and Both in Rigid tables showing conduit separation requirements for different levels and materials. Columns include EMT, RIGID, M, L.P, W, S, V.

PLAN LEGEND

BOX AND PLAN SYMBOLS: X## WALL BOX. XX INDICATES FUNCTION OF BOX (REFER TO BOX LABEL LEGEND). ### INDICATES FLOOR BOX. SIMILAR TO ABOVE.

LABEL LEGEND

LABEL LEGEND: A ASSORTED, B BROADCAST, C CONTROL, D DSS SATELLITE, E EXISTING, F FUTURE / BY OTHERS, G GAME CLOCK, H JUNCTION / PULL BOX, I CAMERA, J LINE-LEVEL AUDIO, K MICROPHONE-LEVEL AUDIO, L PRODUCTION INTERCOM, M EQUIPMENT RACK, N LOUDSPEAKER-LEVEL AUDIO, O TELEVISION DISTRIBUTION, P VIDEO, Q WIRELESS / RF, R DIGITAL SIGNAGE, S DIRECT VIEW LED, T FLAT PANEL DISPLAY, U LOUDSPEAKER, V PROJECTOR, W PROJECTION SCREEN, X TELEVISION, Y VIDEO WALL.

TYPICAL BOX SYMBOLS

TYPICAL BOX SYMBOLS: ## WALL BOX. "YY" INDICATES TYPE. REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INFORMATION AND AS INDICATED ON PLANS AND KEY NOTES. "##" INDICATES BOX INSTALLATION HEIGHT.

LABEL STANDARD

LABEL STANDARD: DEVICE TYPE LABEL, PLAN LOCATION, UNIQUE IDENTIFIER. Example: J-Q1738-01.

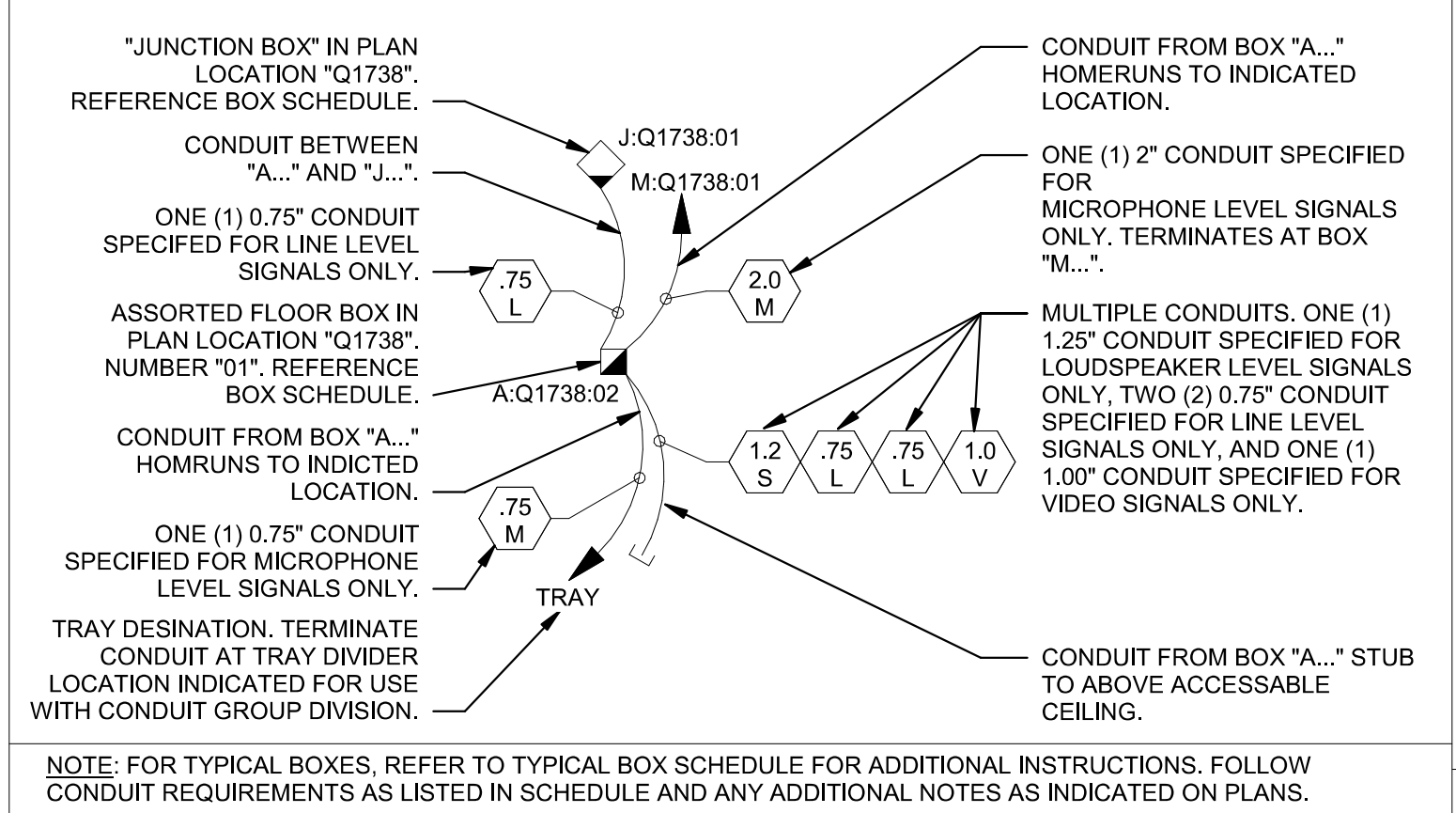
CONDUIT LEGEND

CONDUIT LEGEND: # A INDICATES ASSORTED SIGNALS ONLY. "# SPECIFIES SIZE OF CONDUIT. # L INDICATES LINE LEVEL SIGNALS ONLY. "# SPECIFIES SIZE OF CONDUIT.

SIGNAL FLOW BLOCK LEGEND

Block Description table with columns: Block Description, Specification Reference, Device Identification and Label, Signal Type (Typical), See Wire Type and Abbreviations Schedule, Product Name/Model#.

PLAN BOX & CONDUIT EXAMPLE



NOTE: PANEL & PLATE CONNECTORS ARE NOT SHOWN TO SCALE.

NOTE: REFER TO DIVISION 27 SECTION "TELECOMMUNICATIONS REQUIREMENTS FOR AUDIO-VIDEO SYSTEMS" FOR ADDITIONAL INFORMATION.

REFER TO BOX SCHEDULE FOR ADDITIONAL INFORMATION.

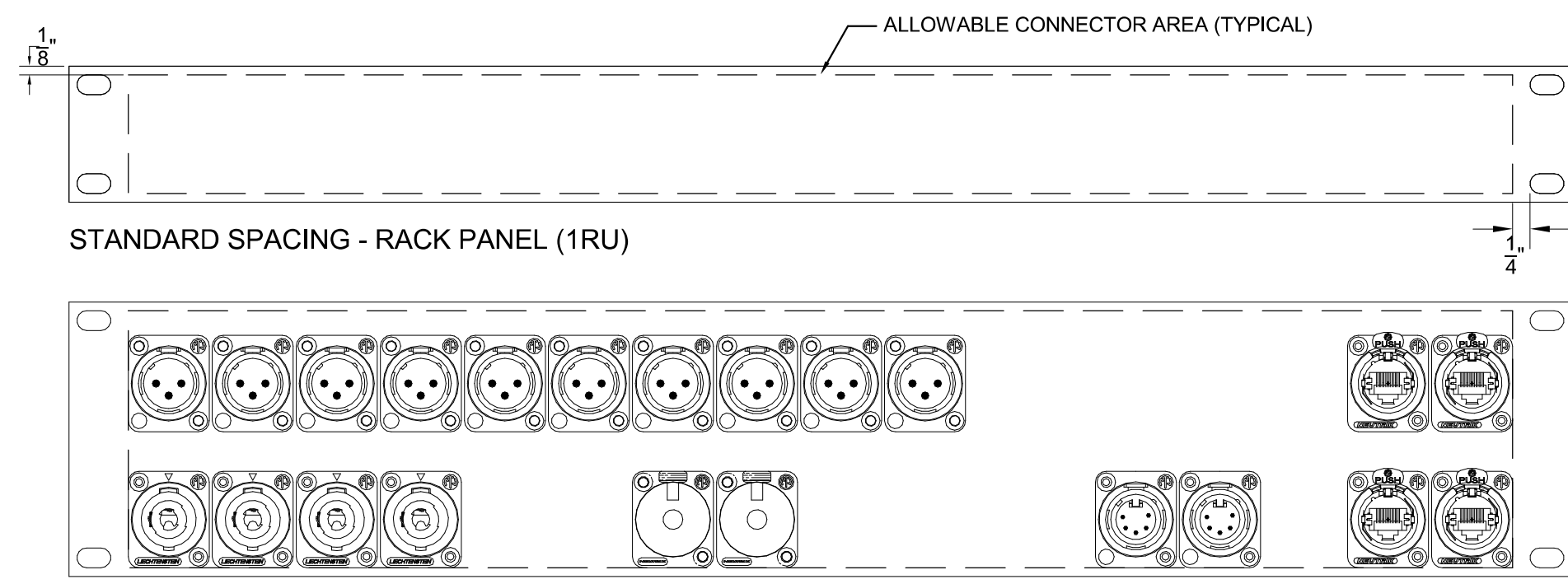
DLR Group logo and contact information. Includes address: 1001 SE BAILEY ROAD, LEE'S SUMMIT, MO 64081. Phone: 816.234.4400. Website: WWW.HENDERSONENGINEERS.COM. License: CURTIS A. OULS, LICENSE # PE-2018036640. Date: Oct 8 2020.

LEE'S SUMMIT MIDDLE SCHOOL #4, LEE'S SUMMIT R-7 SCHOOL DISTRICT

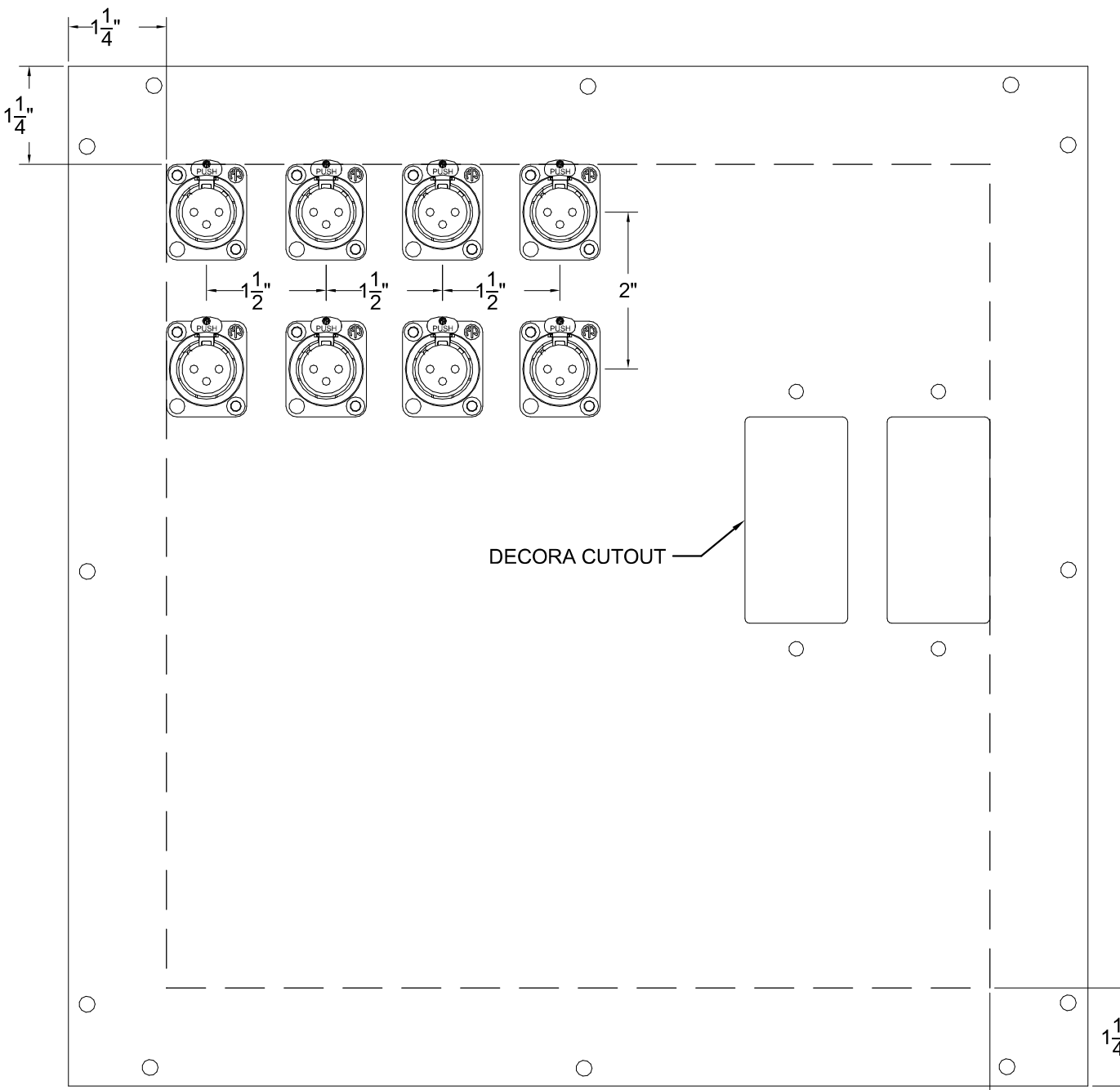
PACKAGE 3 - BUILDING & SITE, 10/08/20, REVISIONS

13-20102-00, AUDIO-VIDEO GENERAL NOTES AND LEGEND

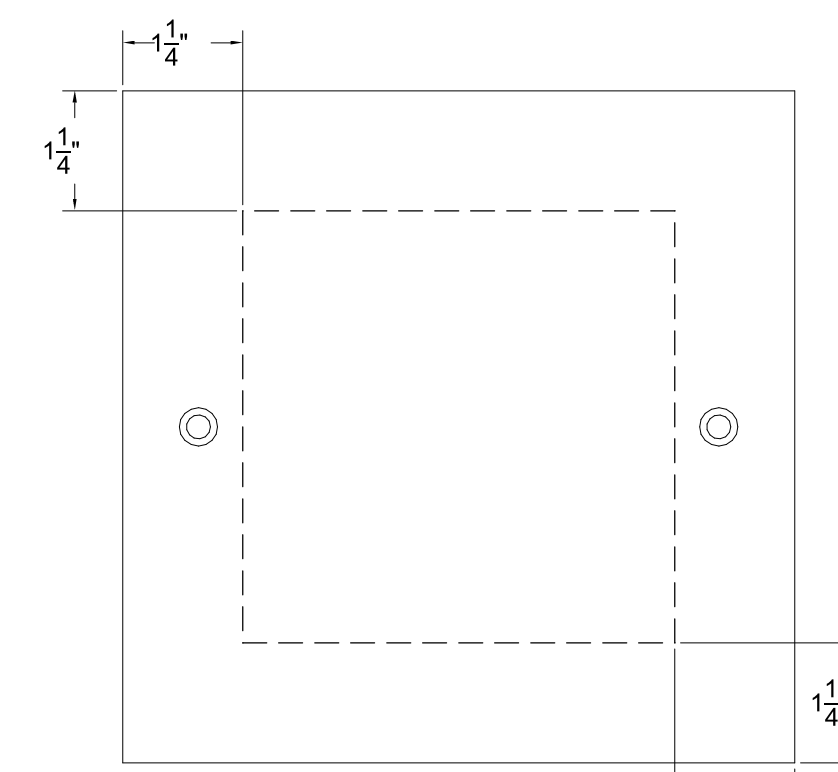
TA0.1



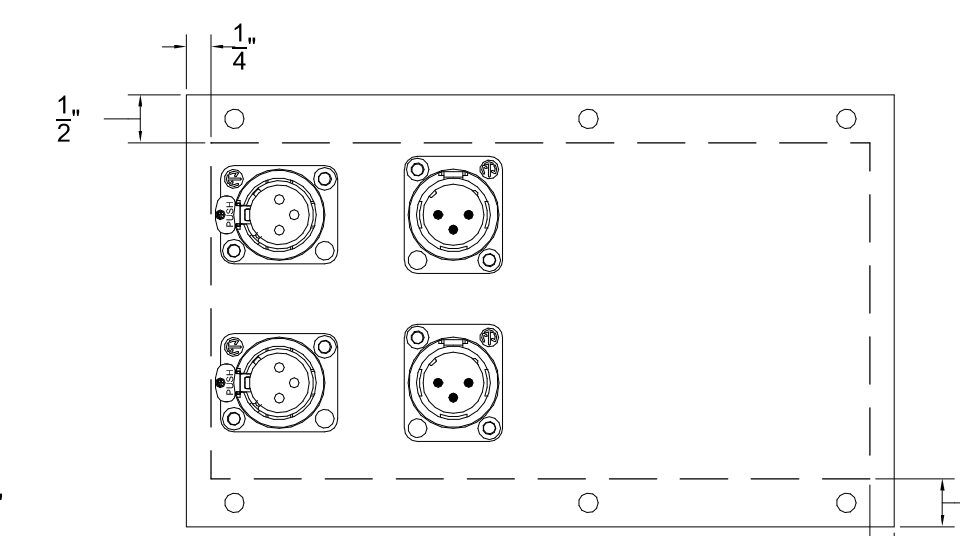
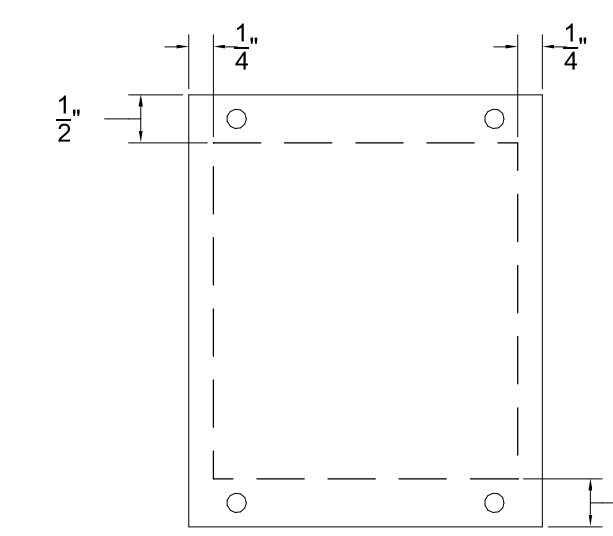
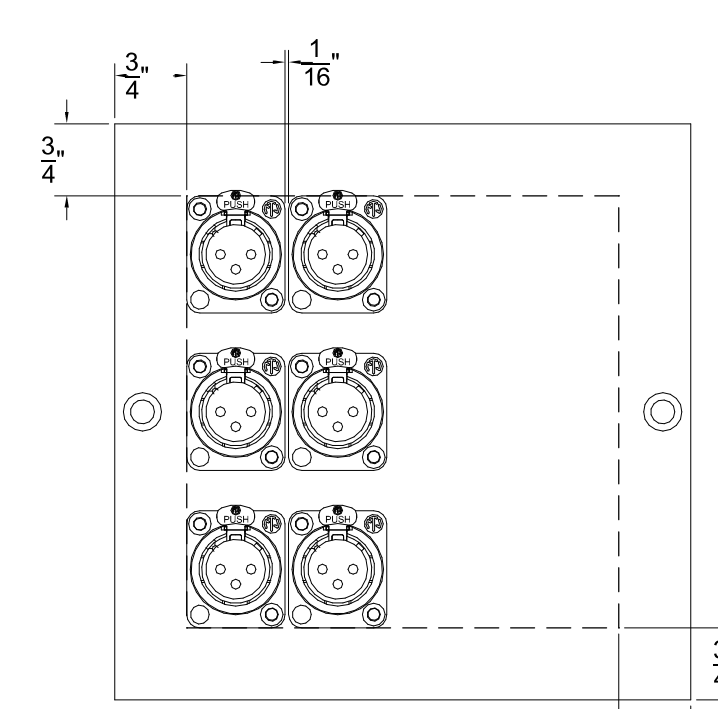
STANDARD LAYOUT - RACK PANEL (2RU)



STANDARD SPACING - NEMA 13X13 (12X12 FLUSH BOX SIZE)

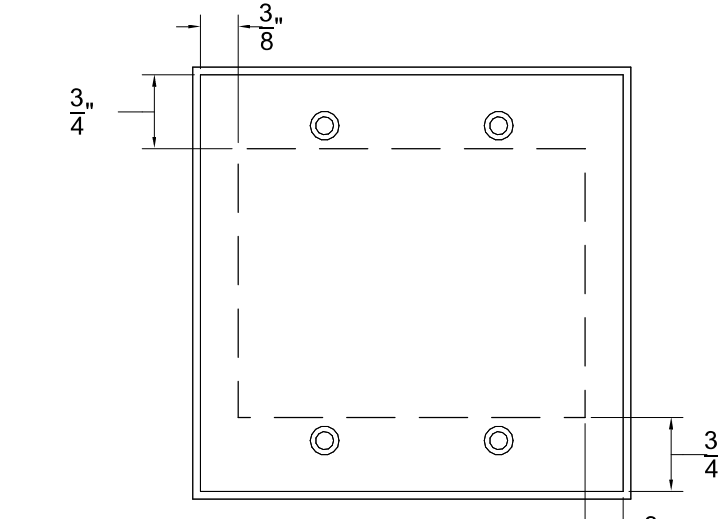


STANDARD SPACING - NEMA 6X6 SURFACE BOX

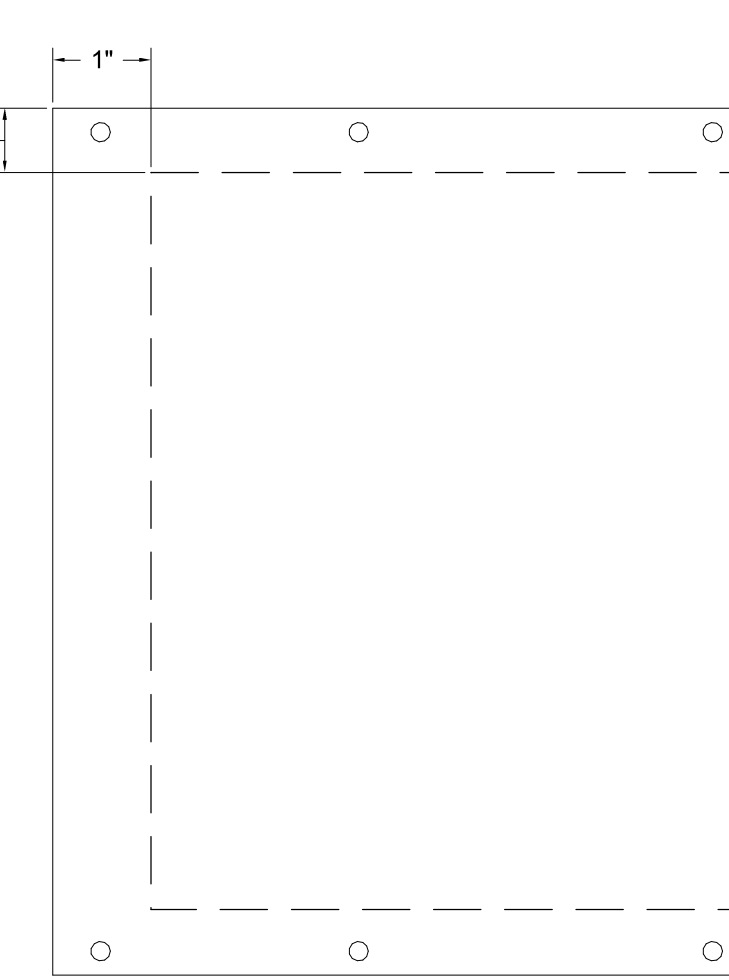
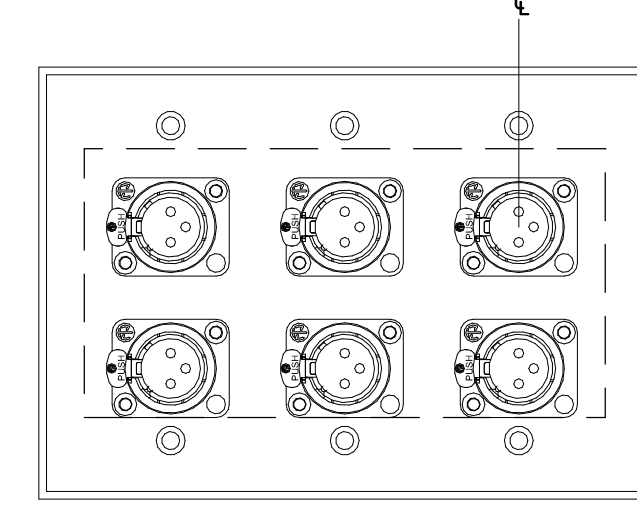


STANDARD SPACING - ACE FULL POCKET SIZE

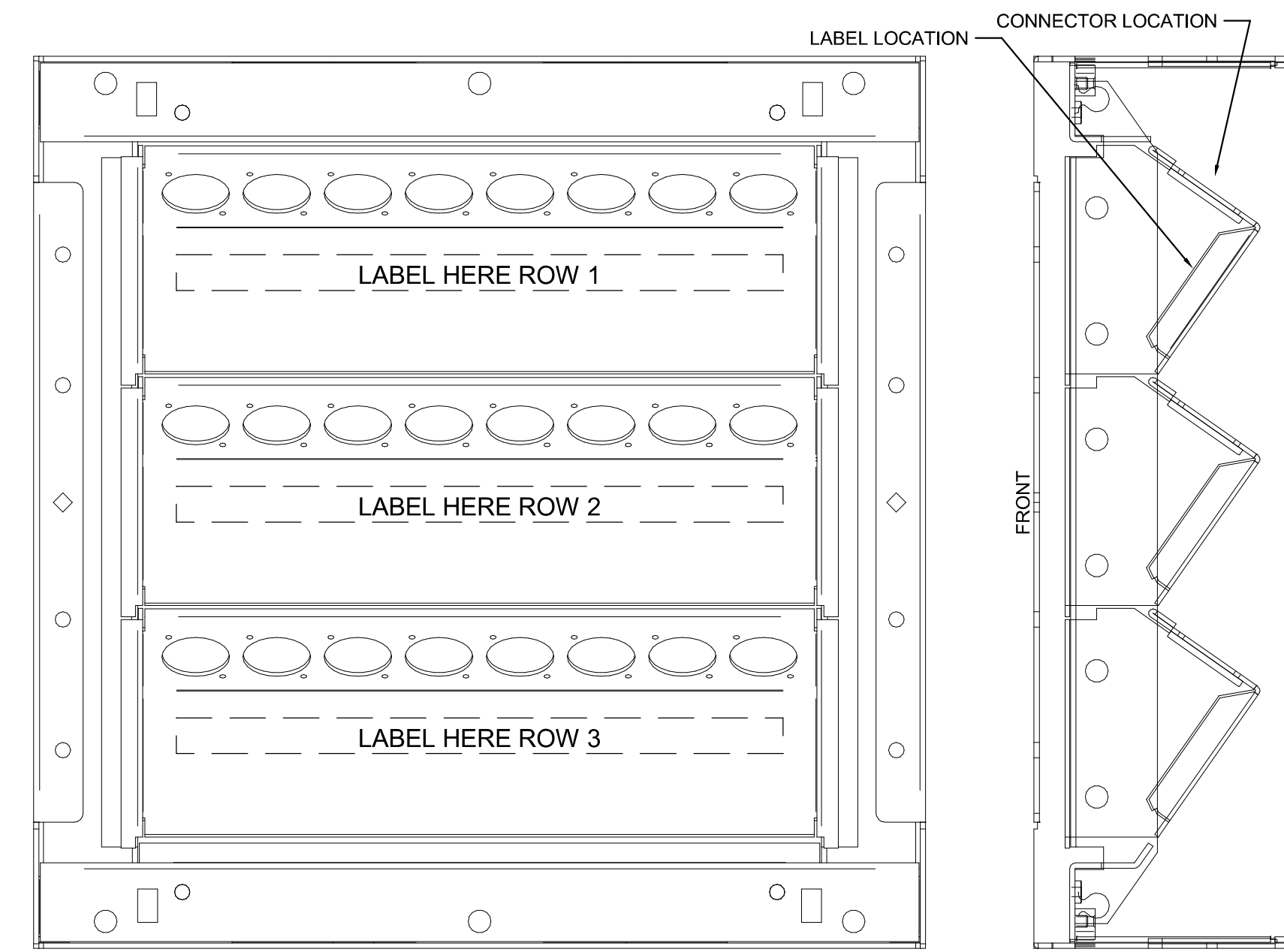
STANDARD SPACING - ACE FULL POCKET SIZE



STANDARD LAYOUT - GANG PLATE (3 GANG)



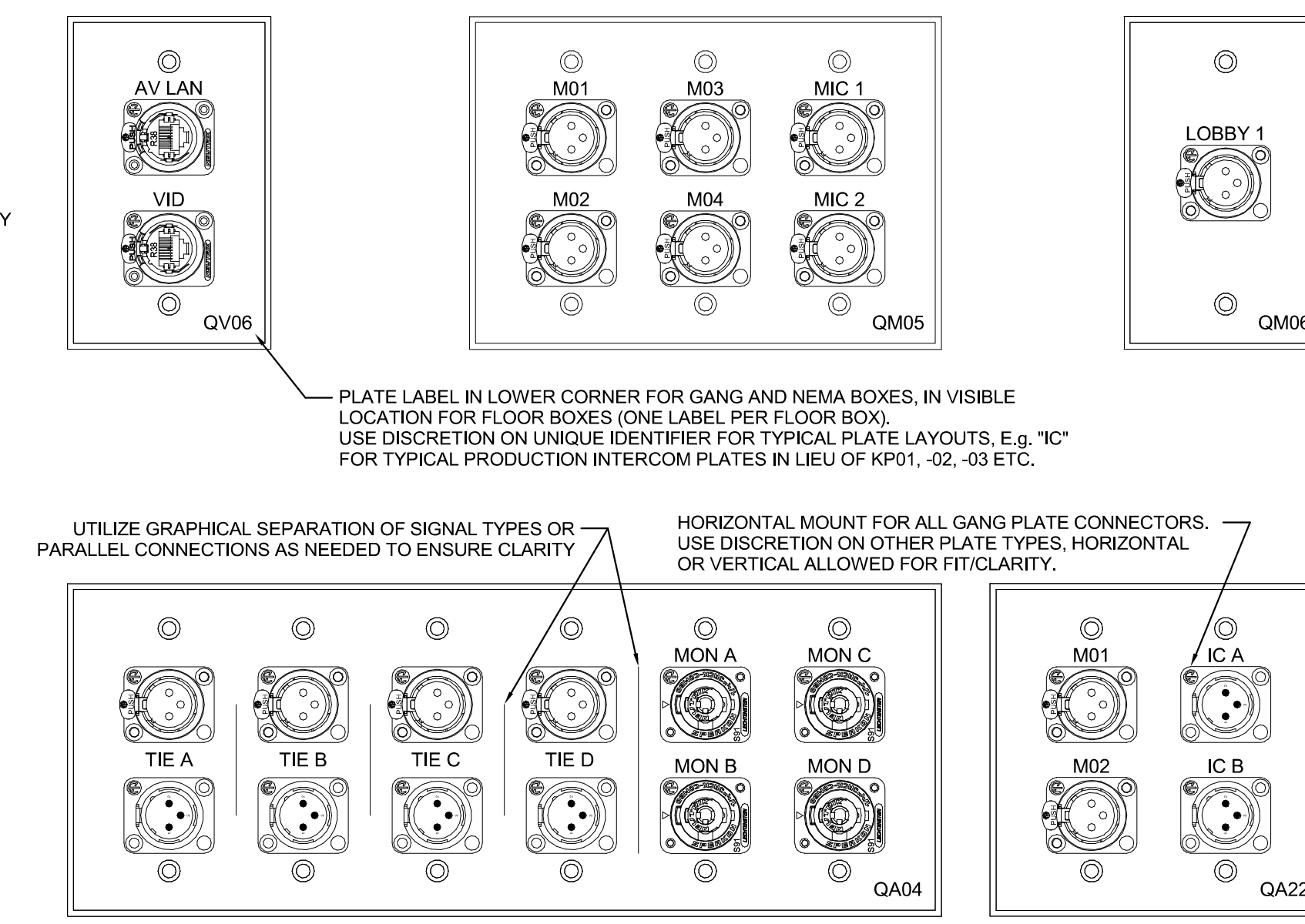
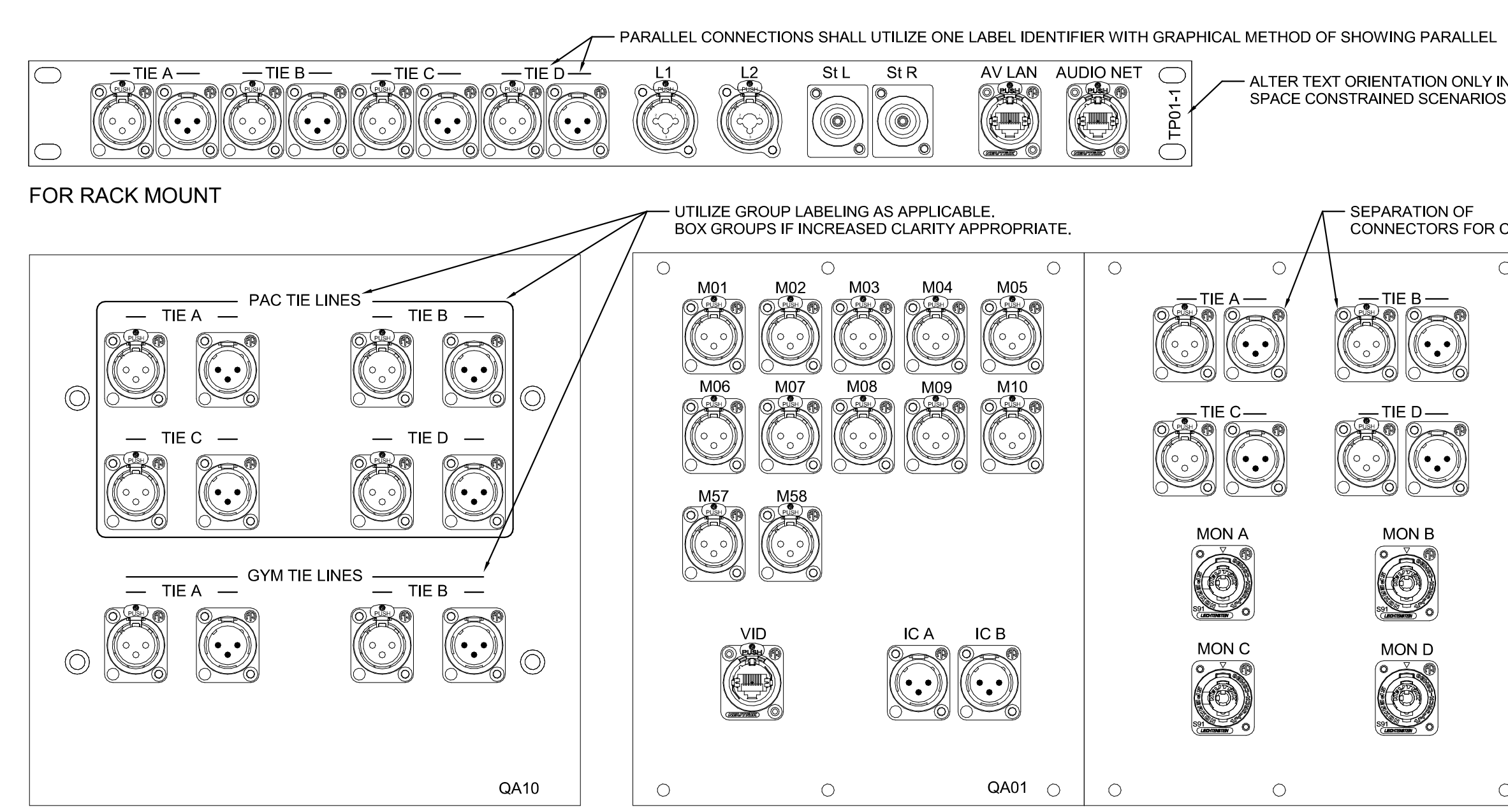
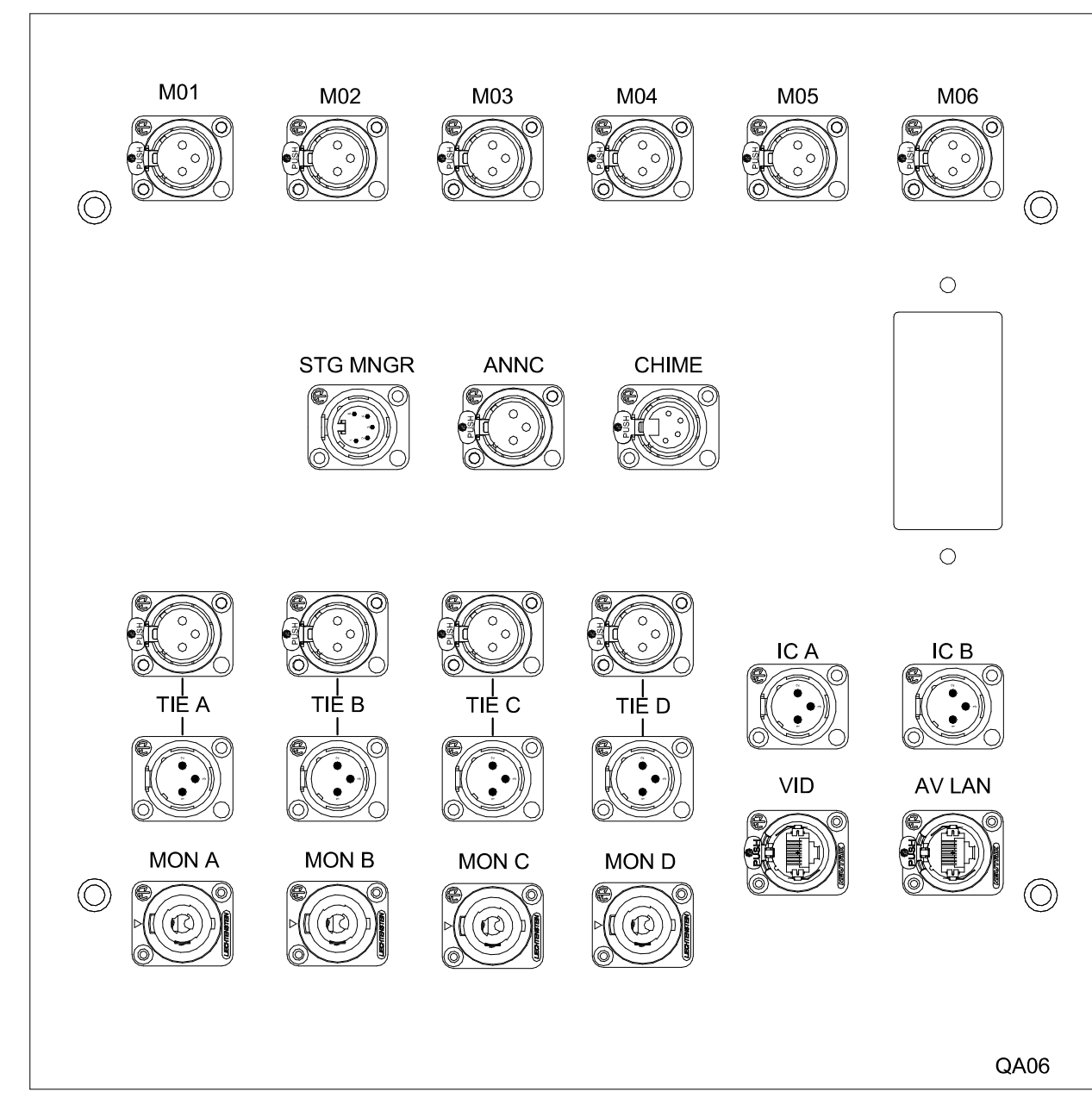
STANDARD MOUNTING AND LABELING CONDITION - FSR WB-X2-XLR (FRONT AND RIGHT SIDE)



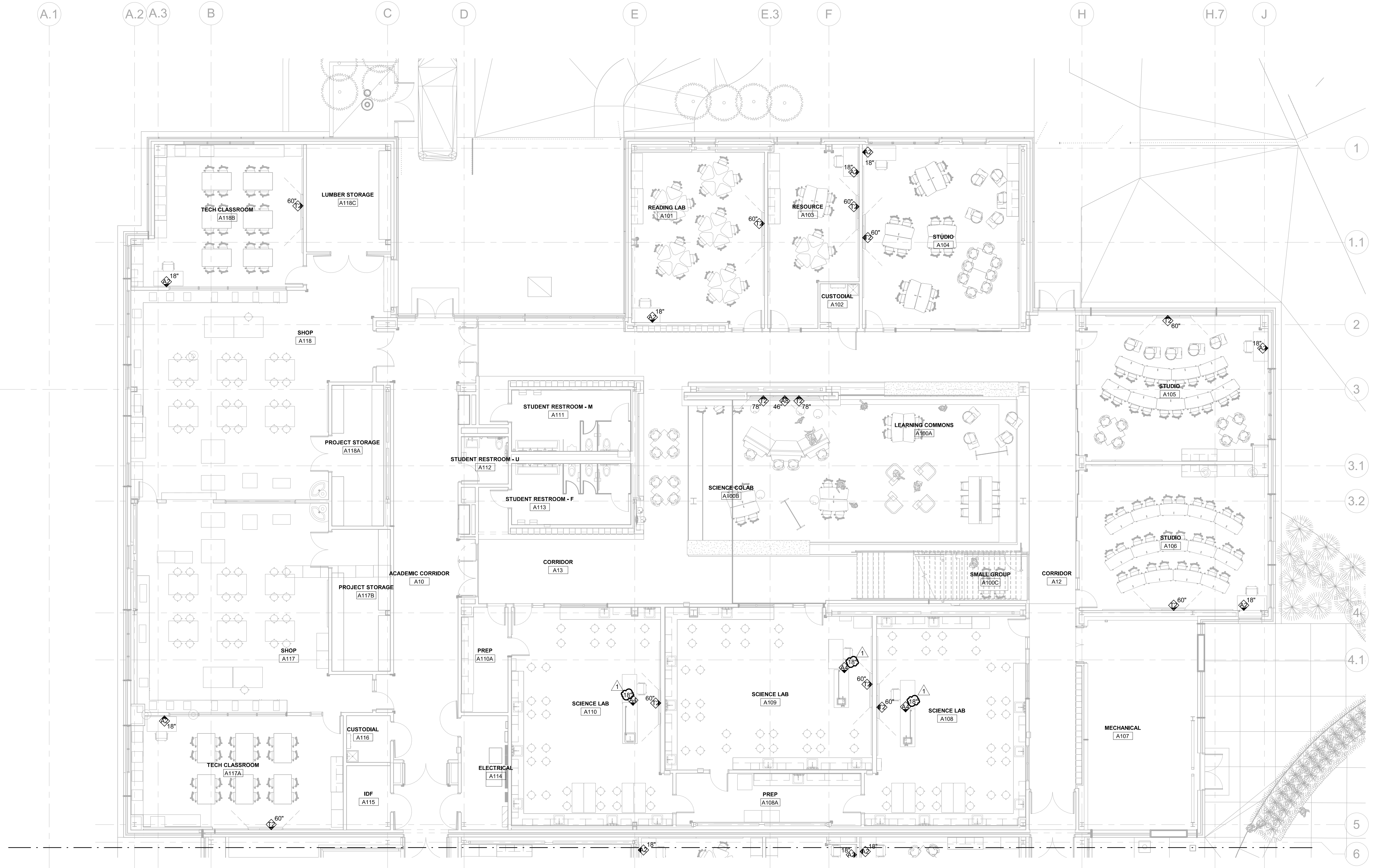
**GENERAL NOTES:**

1. THIS SHEET IS PROVIDED TO CONVEY PANEL AND PLATE REQUIREMENTS IN A GENERAL FASHION. IT SHALL BE USED AS A GUIDELINE FOR THE CREATION OF SHOP DRAWINGS. ALL DETAILS CONTAINED ON THIS SHEET ARE CONCEPTUAL IN NATURE AND DO NOT REFLECT SPECIFIC LAYOUTS RELATED TO THIS PROJECT.
2. DETAIL 1 DESCRIBES PLATE FABRICATION REQUIREMENTS RELATED TO PLATE LAYOUT AND CONNECTOR SPACING AND SEPERATION.
3. DETAIL 2 PROVIDES EXAMPLE PLATE LAYOUTS WITH LABELING REQUIREMENTS.
4. 3/32" LABEL TEXT SIZE REQUIRED ON ALL PLATES.
5. REFER TO LEGEND SHEET FOR GENERAL PANEL AND PLATE NOTES.
6. SHEET TA5.1 CONTAINS PLATE LAYOUTS SPECIFIC TO THIS PROJECT.

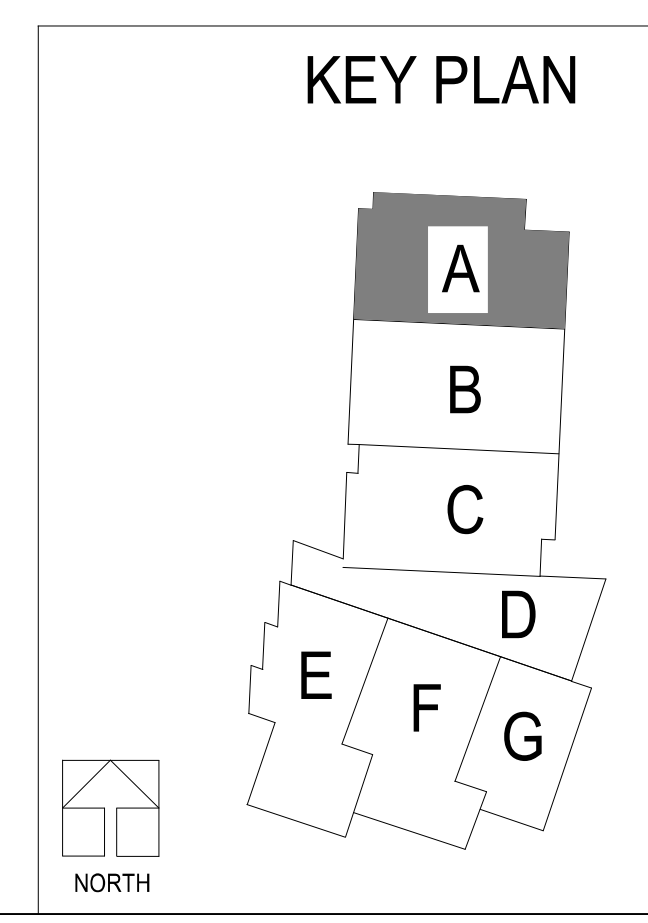
**1 PLATE FABRICATION REQUIREMENTS**  
6" = 1'-0"

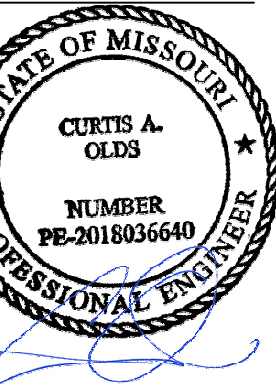


**2 PLATE LAYOUT EXAMPLES**  
6" = 1'-0"



1 AUDIO-VIDEO FIRST LEVEL PLAN - AREA A  
 1/8" = 1'-0"





Oct 13 2020  
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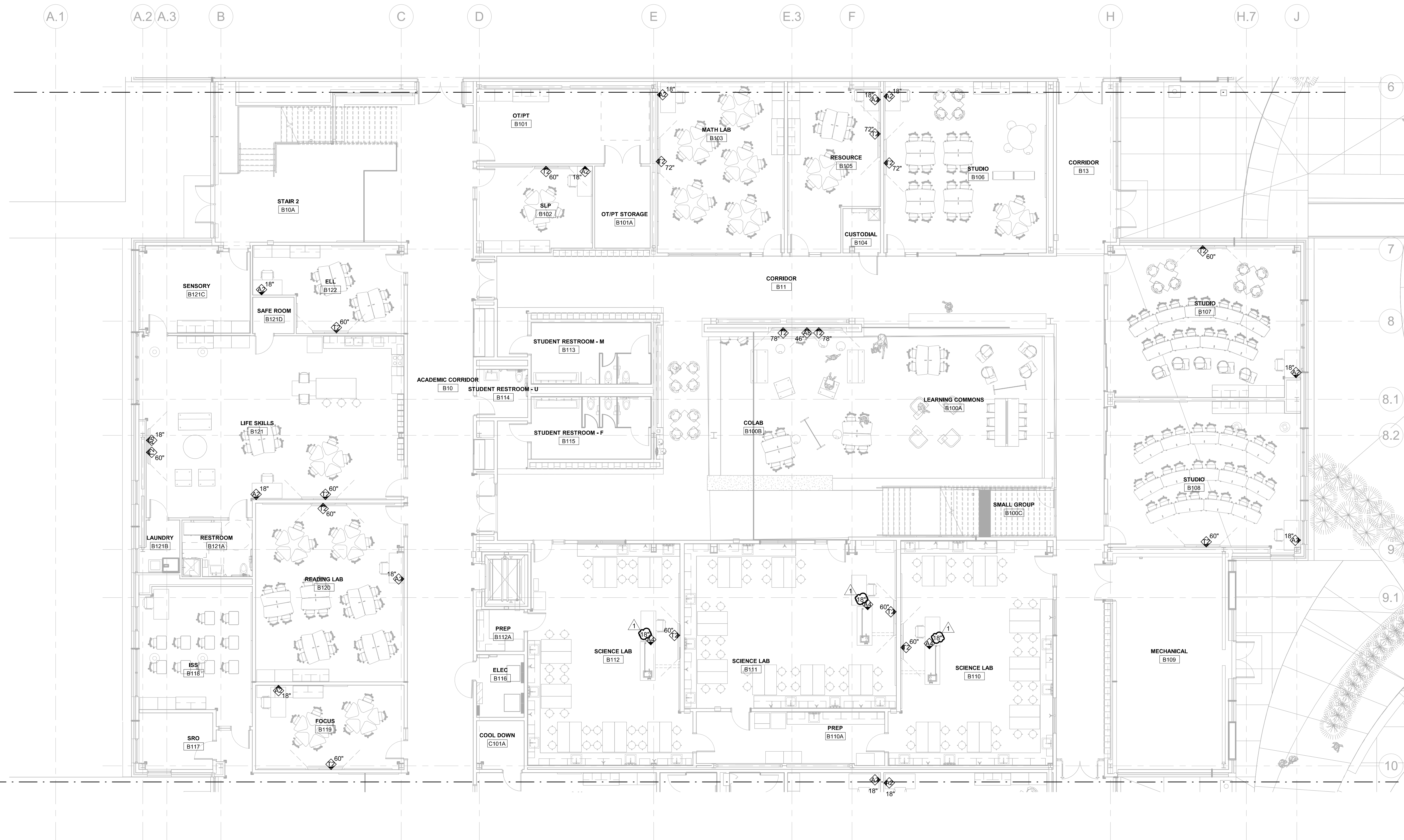
**HENDERSON**  
 ENGINEERS  
 18345 LINDA DRIVE SUITE 300  
 LENOIR, VA 28645  
 TEL: 919.742.8300  
 WWW.HENDERSONENGINEERS.COM  
 LICENSE NO. 180000000  
 MO. CORPORATE NO. E-5680  
 EXPIRES 12/31/2021

**LEE'S SUMMIT MIDDLE SCHOOL #4**  
 LEE'S SUMMIT R-7 SCHOOL DISTRICT  
 1001 SE BAILEY ROAD  
 LEE'S SUMMIT, MO 64081

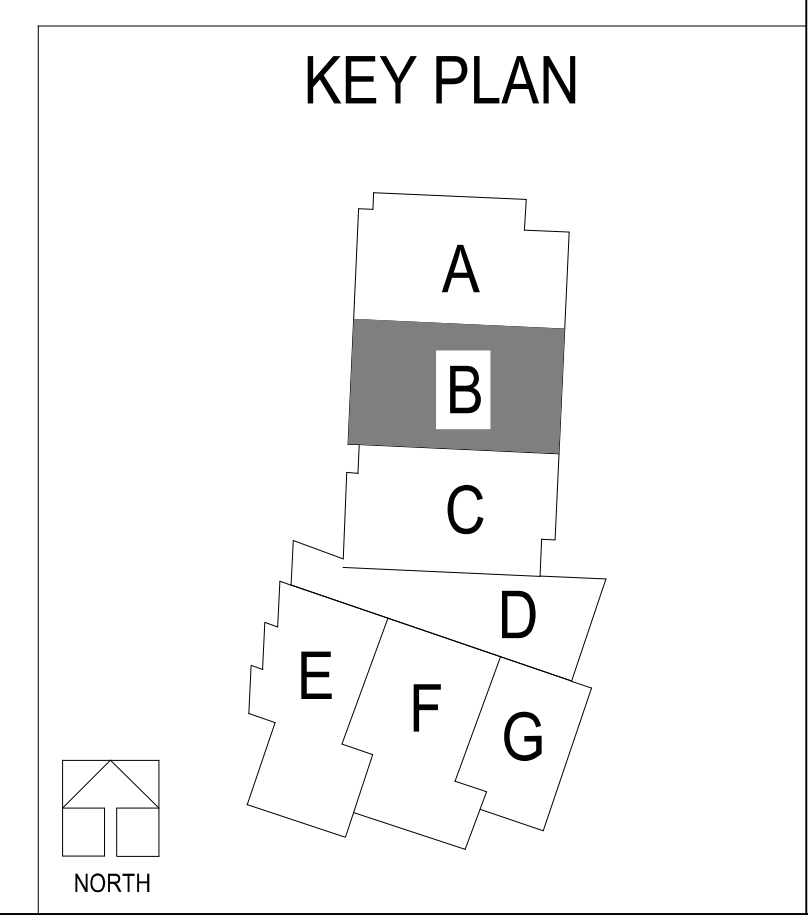
PACKAGE 3 - BUILDING & SITE  
 10/08/20  
 REVISIONS  
 ADDENDUM 001

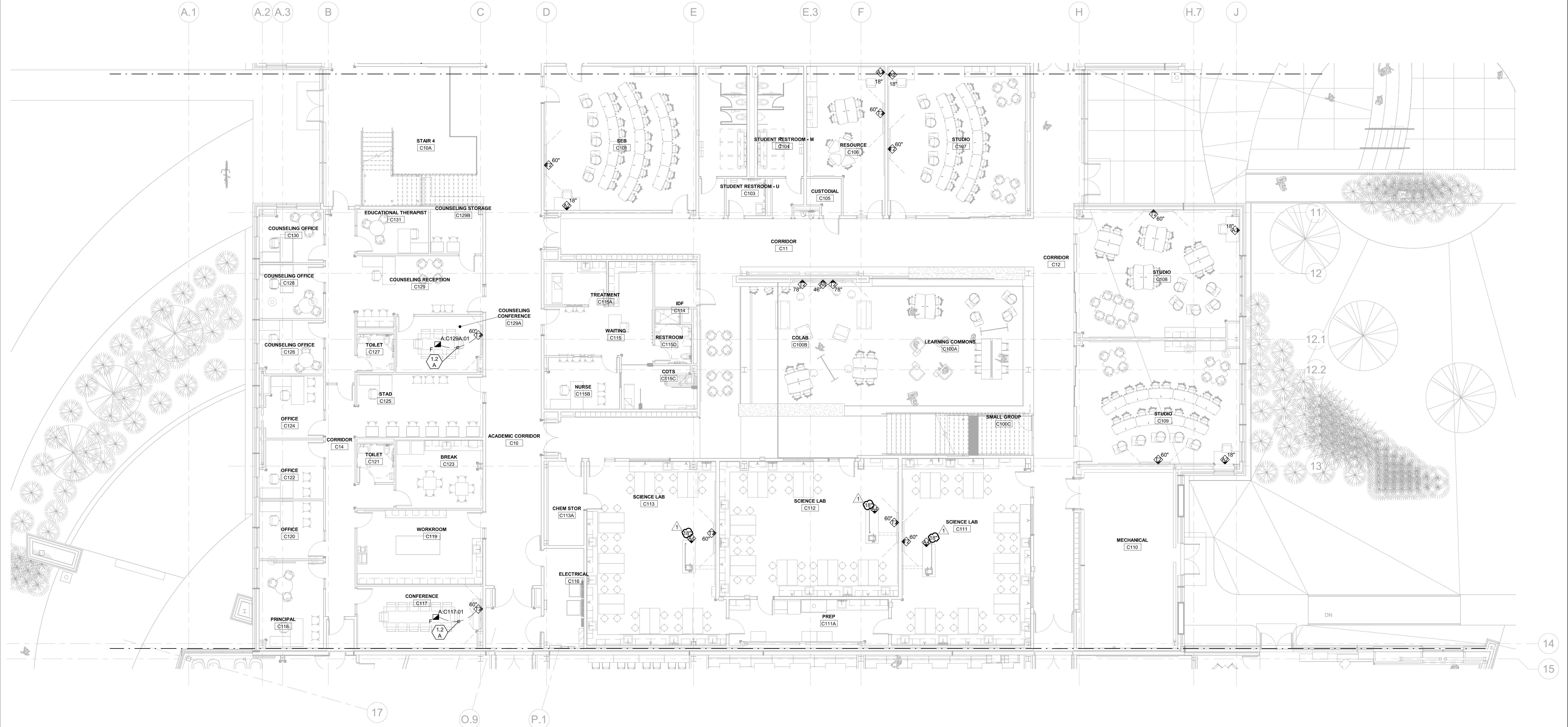
13-20102-00  
 AUDIO-VIDEO  
 FIRST LEVEL  
 PLAN - AREA B

**TA1.1B**

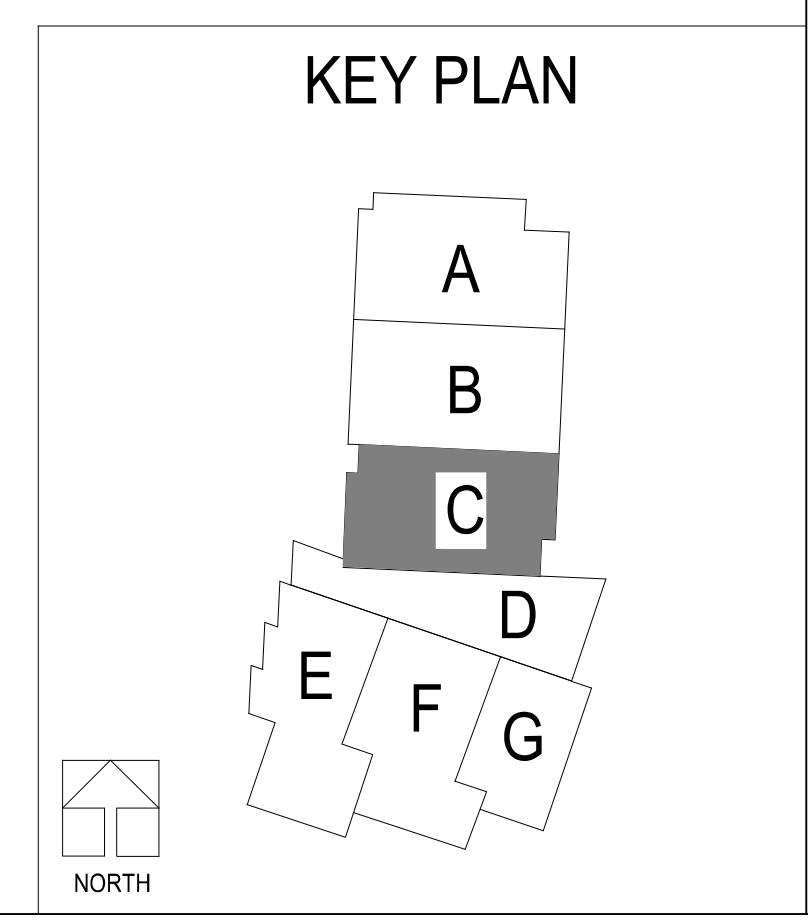


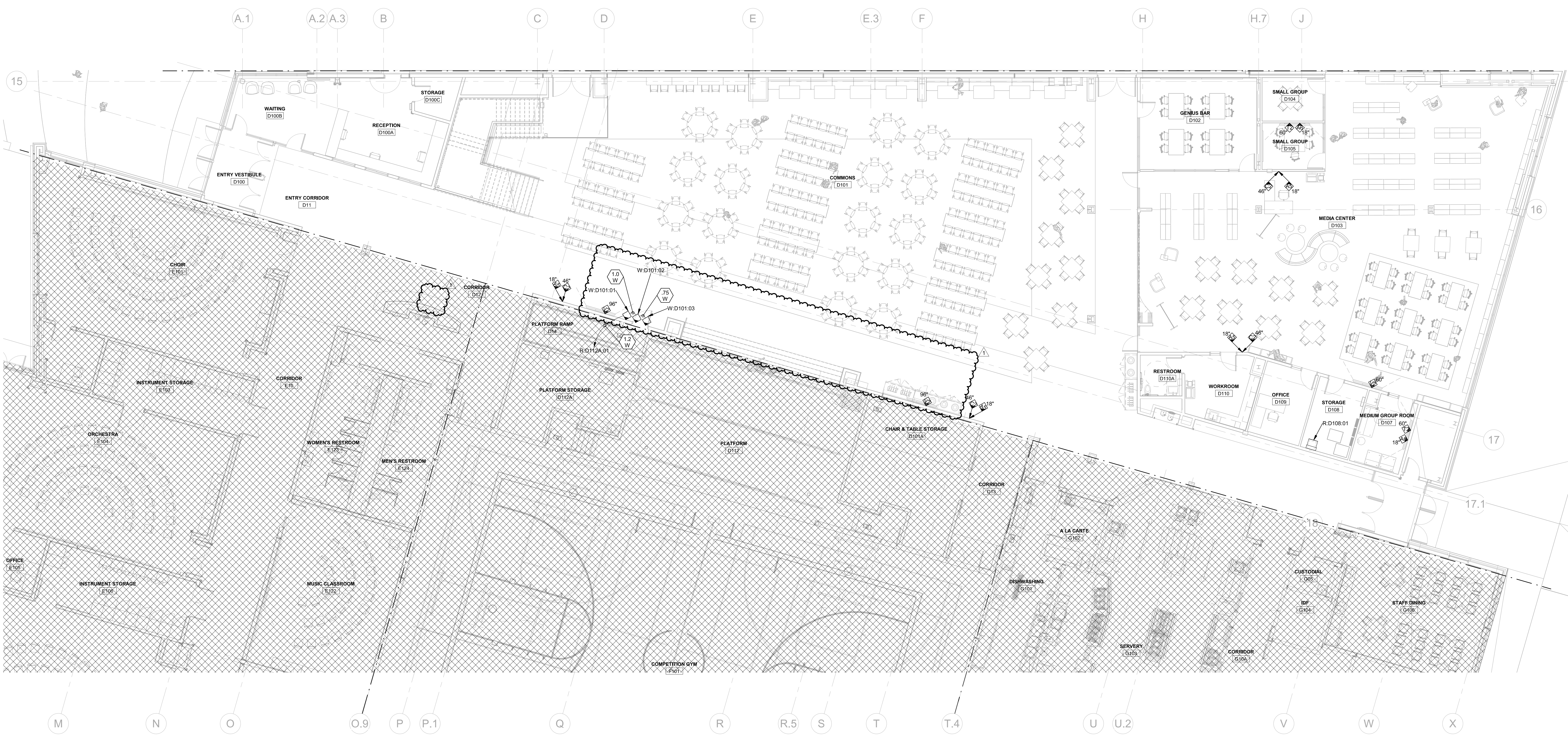
1 AUDIO-VIDEO FIRST LEVEL PLAN - AREA B  
 1/8" = 1'-0"



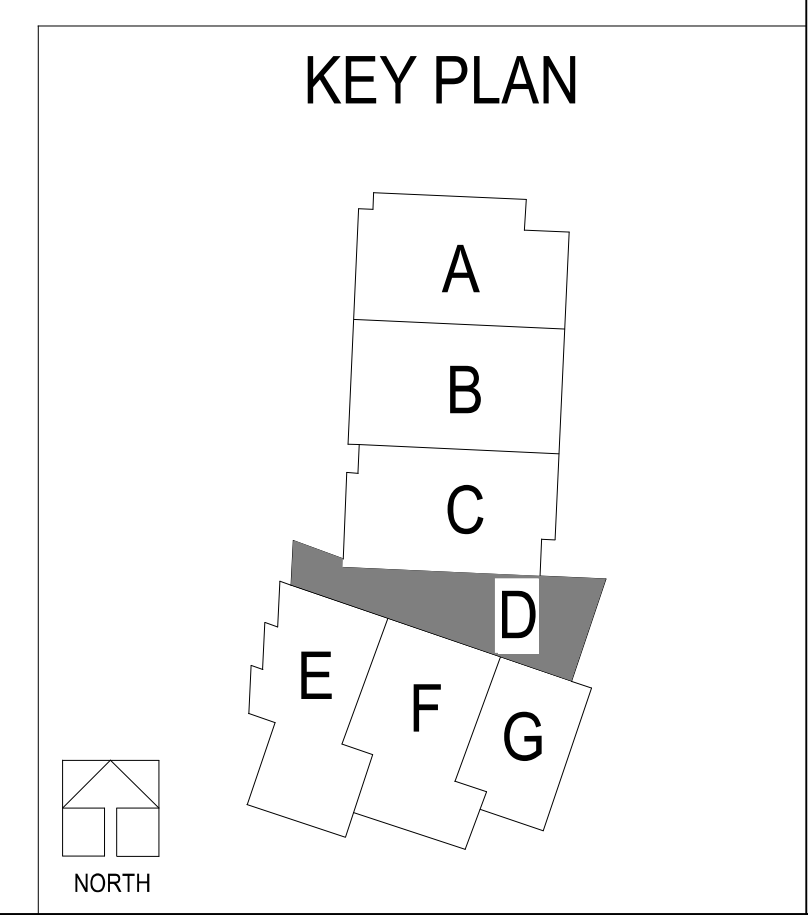


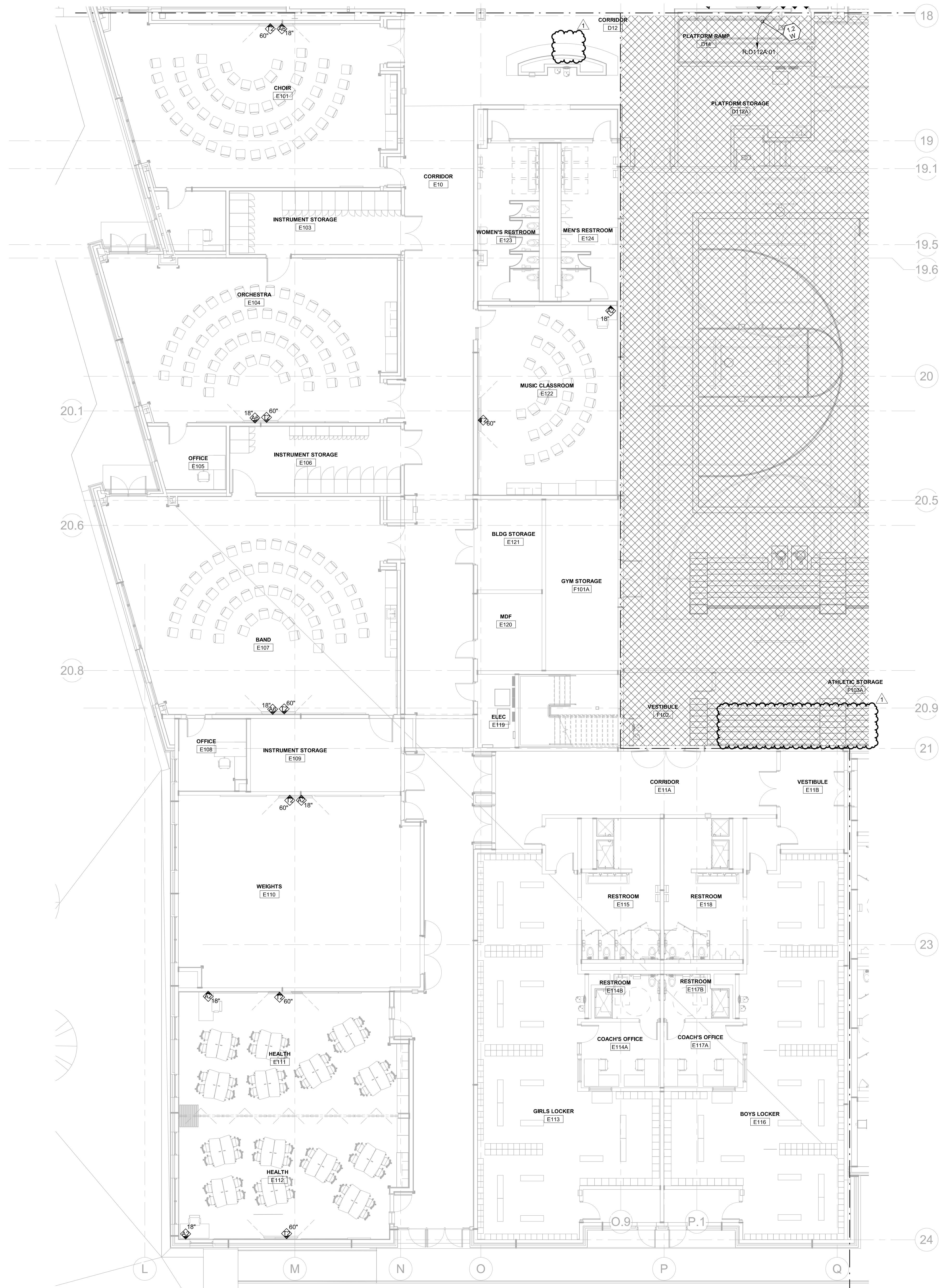
1 AUDIO-VIDEO FIRST LEVEL PLAN - AREA C  
 1/8" = 1'-0"



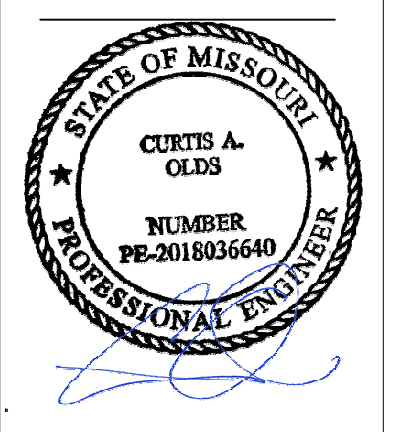
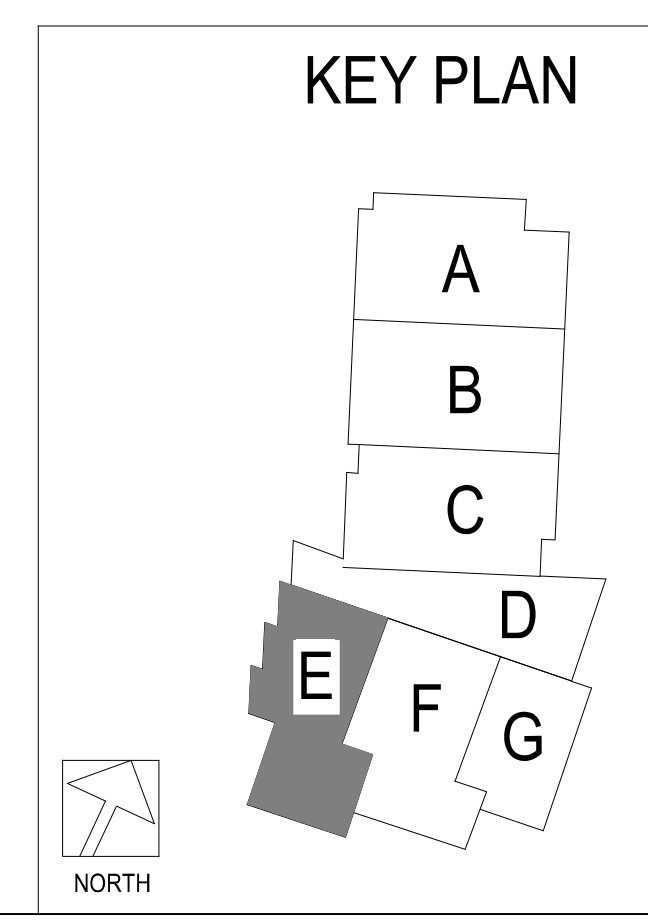


1 AUDIO-VIDEO FIRST LEVEL PLAN - AREA D  
 1/8" = 1'-0"





1 AUDIO-VIDEO FIRST LEVEL PLAN - AREA E  
1/8" = 1'-0"



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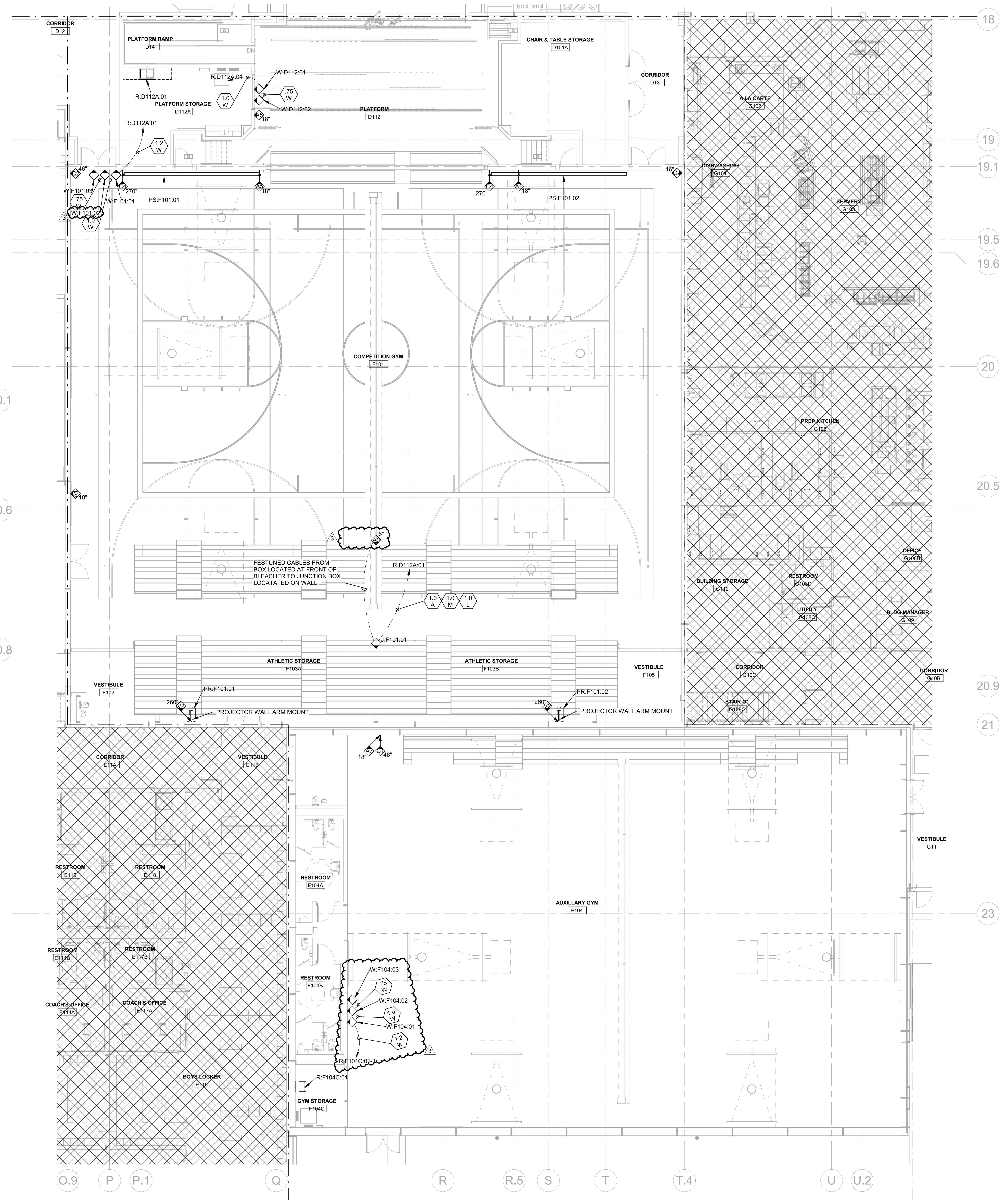
**HENDERSON**  
 ENGINEERS  
 8345 PENNA DRIVE SUITE 300  
 LENOX, KS 66214-4300  
 TEL: 913.748.8800  
 WWW.HENDERSONENGINEERS.COM  
 MISSOURI  
 MO. CORPORATE NO. E-5680  
 EXPIRES 12/31/2021

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 LEE'S SUMMIT R-7 SCHOOL DISTRICT  
 1001 SE BAILEY ROAD  
 LEE'S SUMMIT, MO 64081

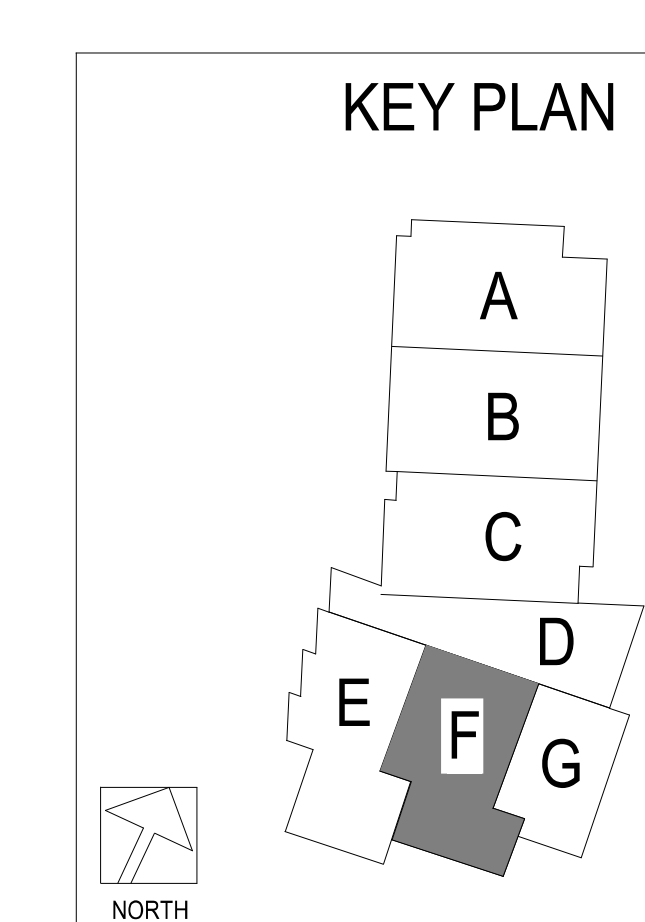
PACKAGE 3 - BUILDING & SITE  
 10/08/20  
 REVISIONS  
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13-20102-00  
 AUDIO-VIDEO  
 FIRST LEVEL  
 PLAN - AREA E

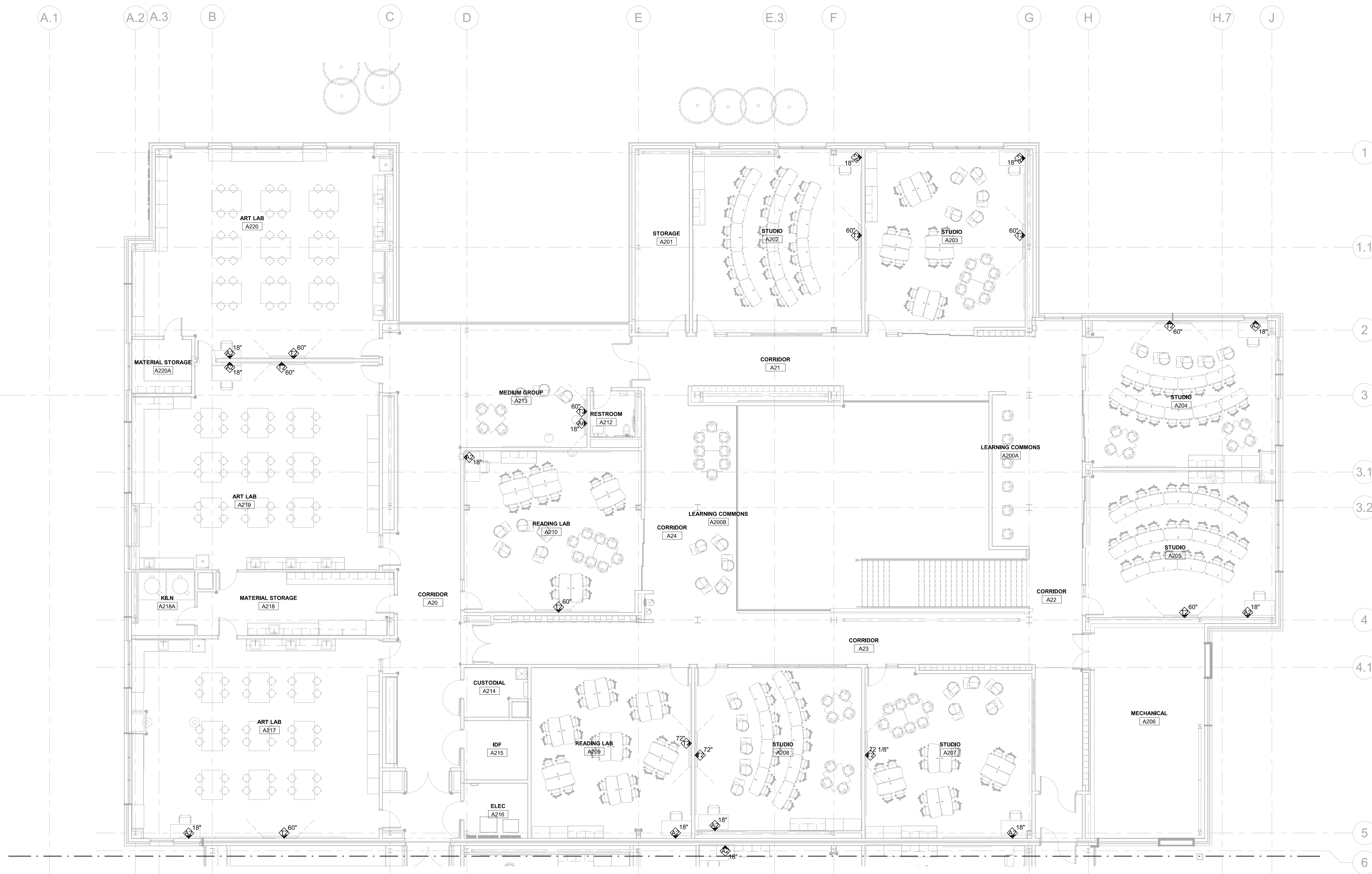
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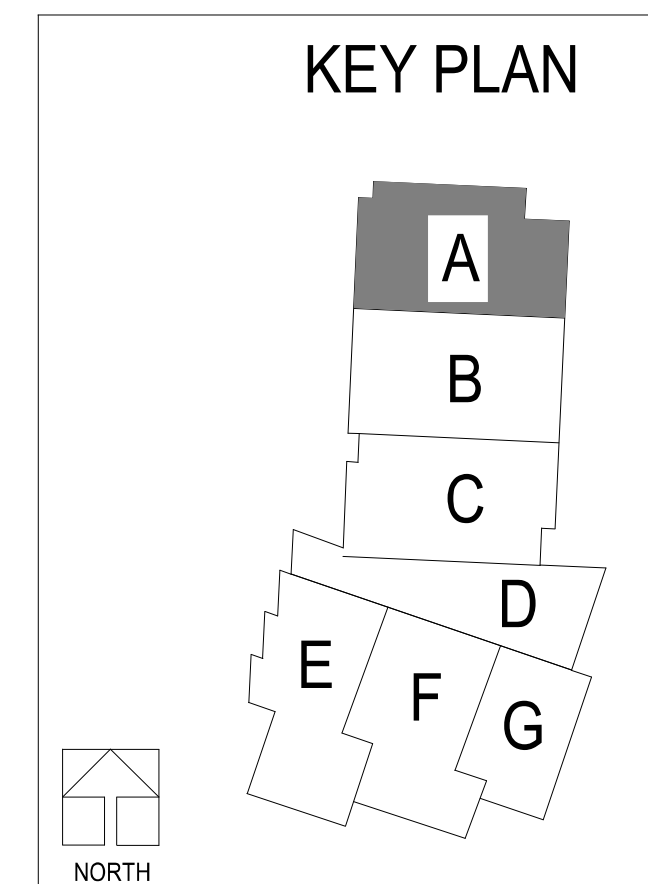
1 AUDIO-VIDEO FIRST LEVEL PLAN - AREA F  
1/8" = 1'-0"

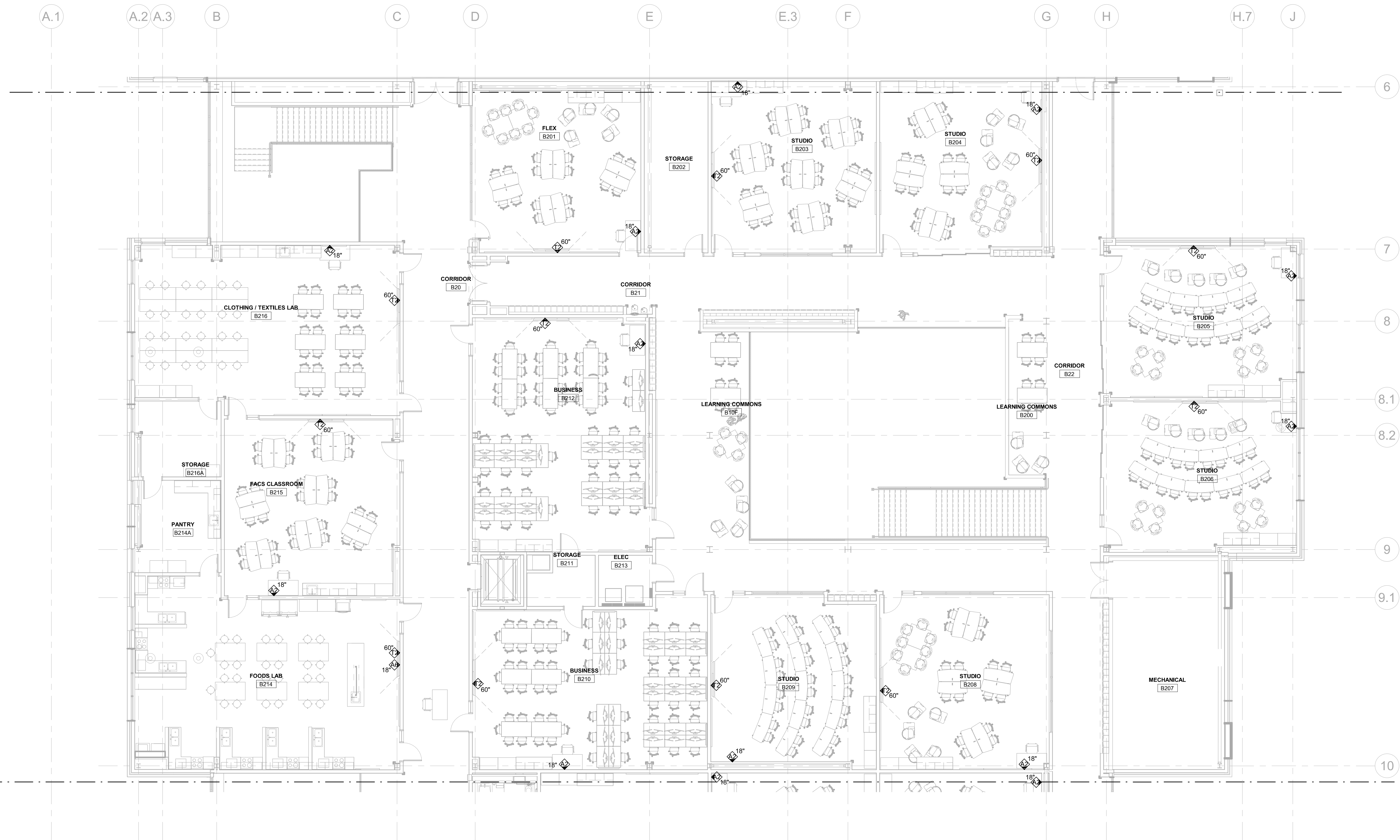




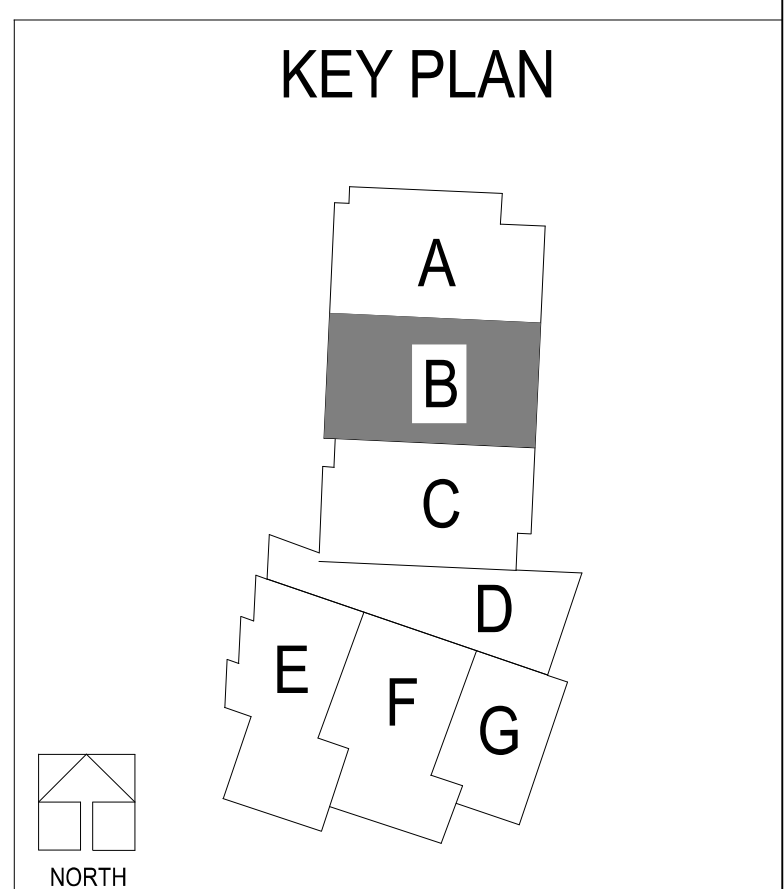


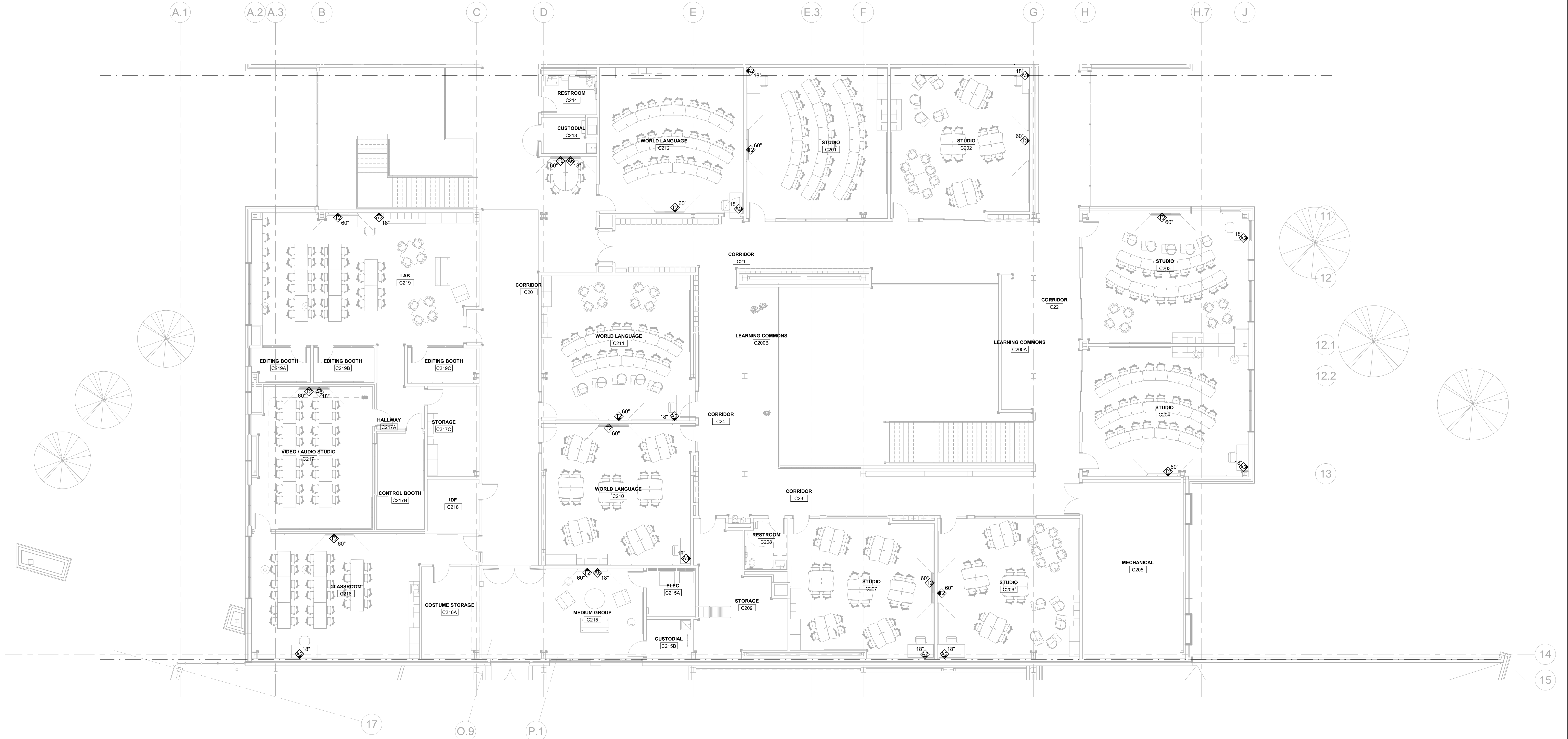
1 AUDIO-VIDEO SECOND LEVEL PLAN - AREA A  
 1/8" = 1'-0"



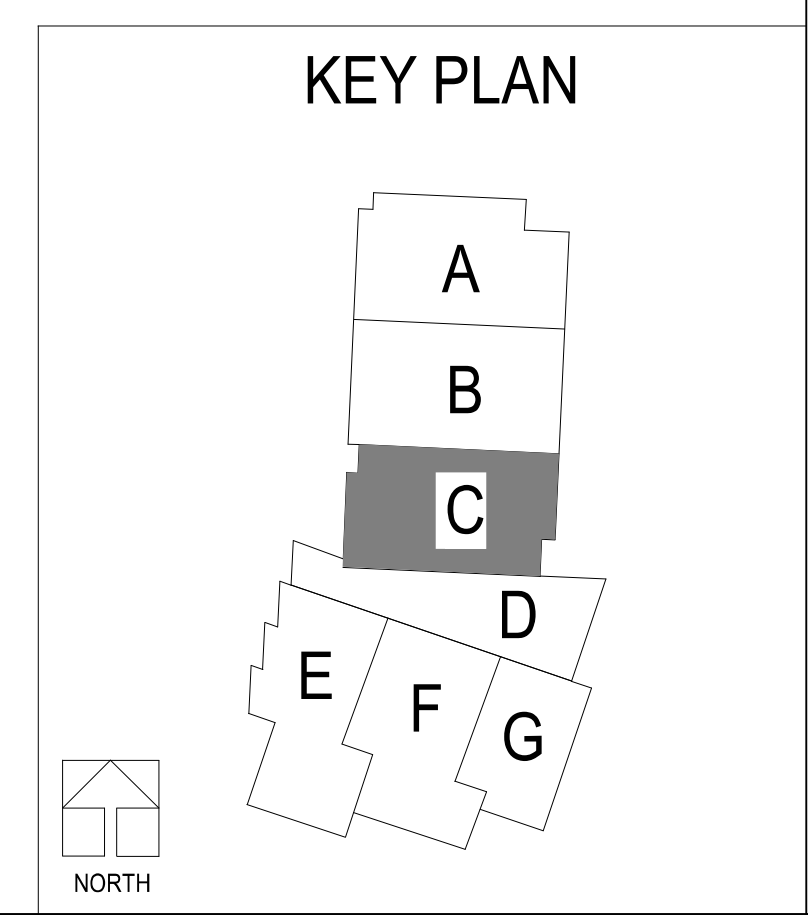


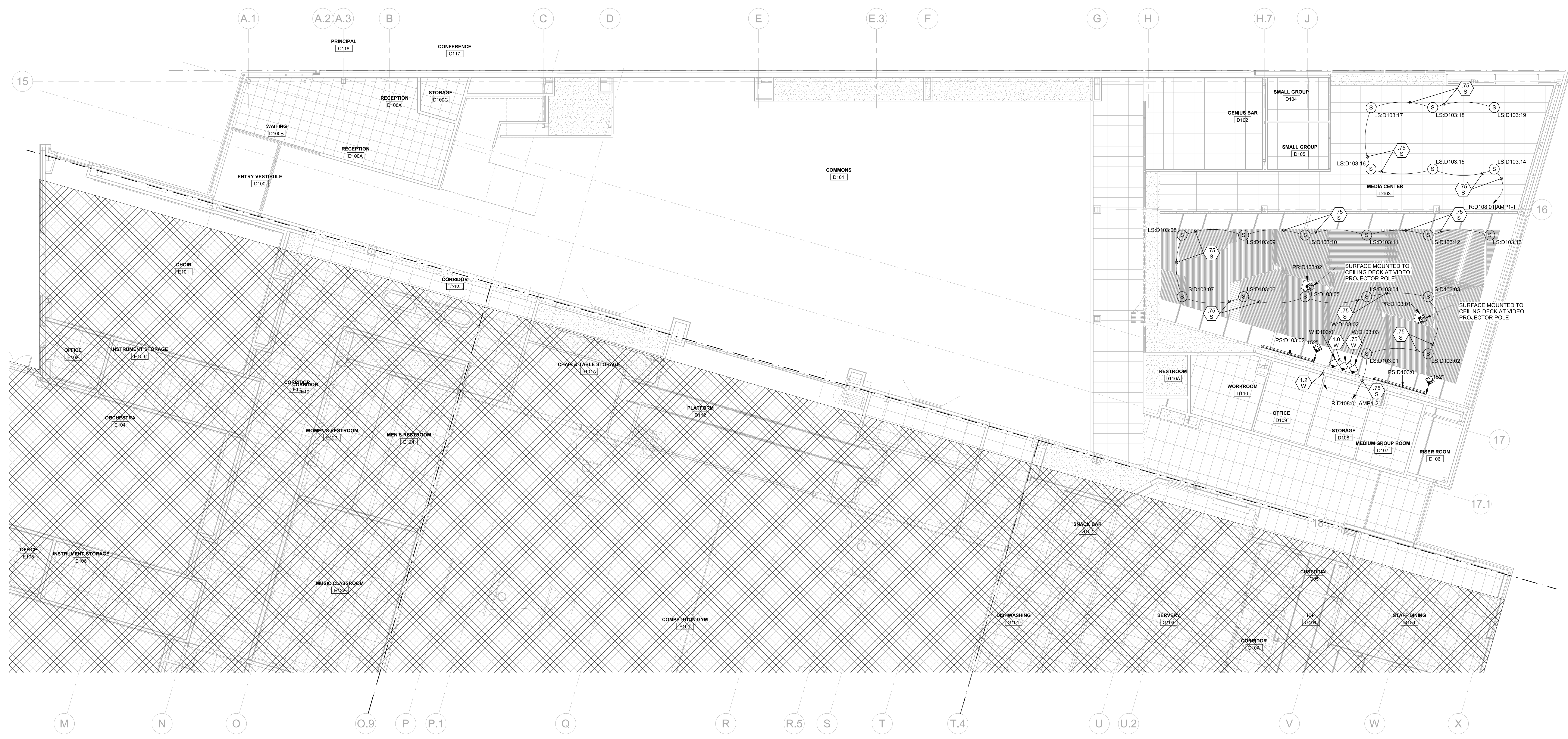
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 1/8" = 1'-0"



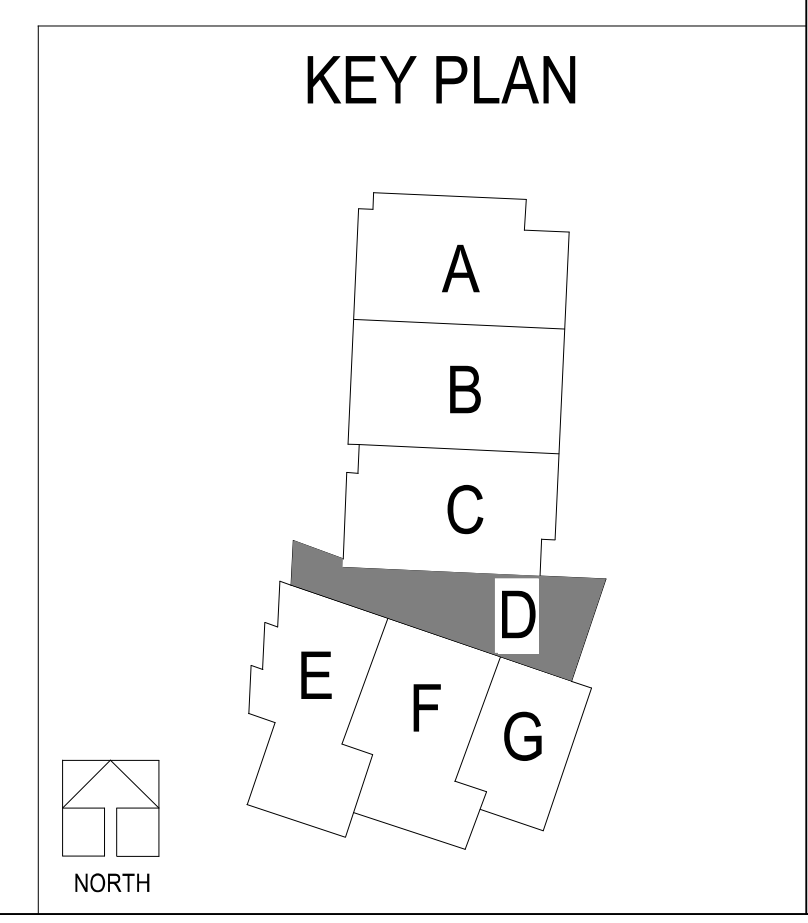


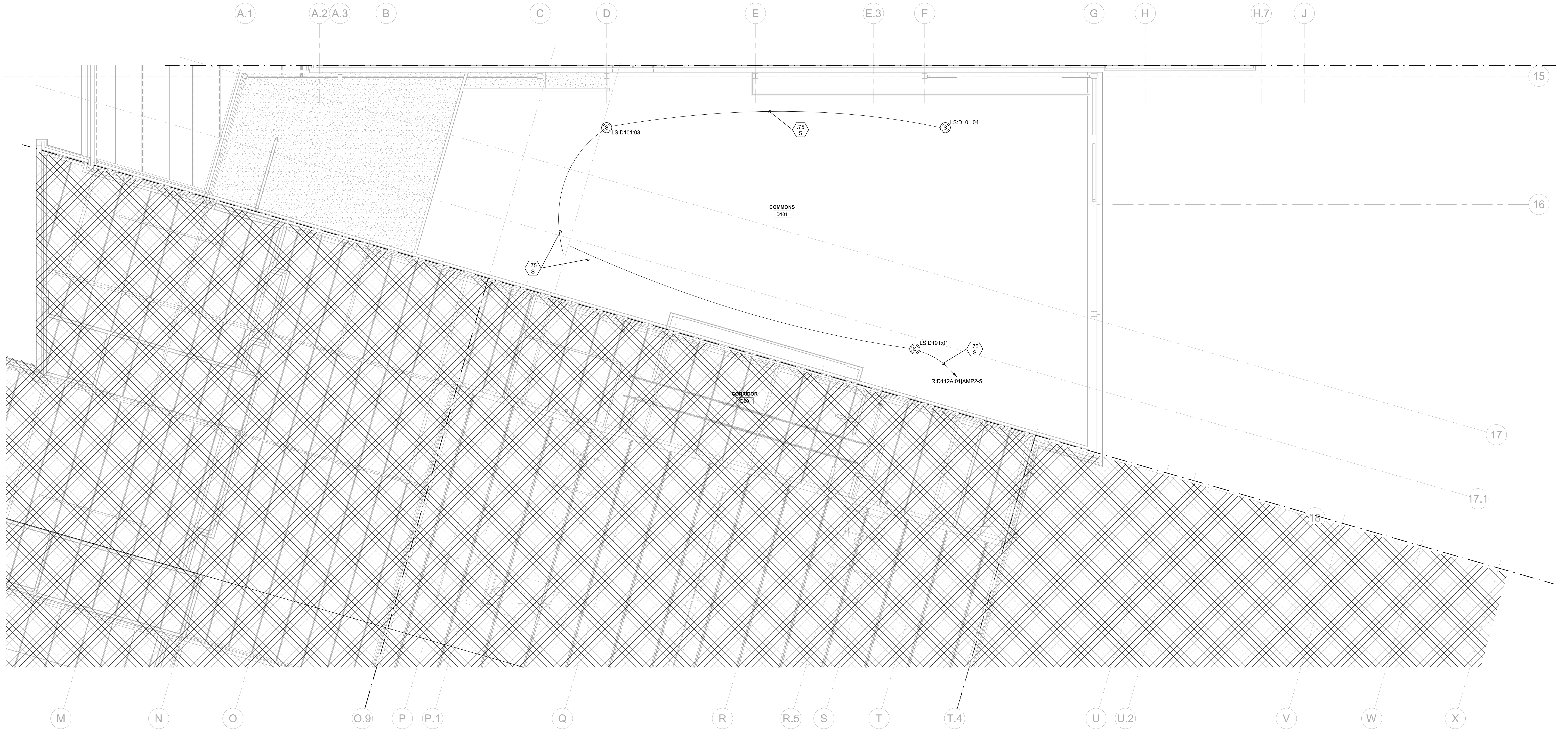
1 AUDIO-VIDEO SECOND LEVEL PLAN - AREA C  
 1/8" = 1'-0"



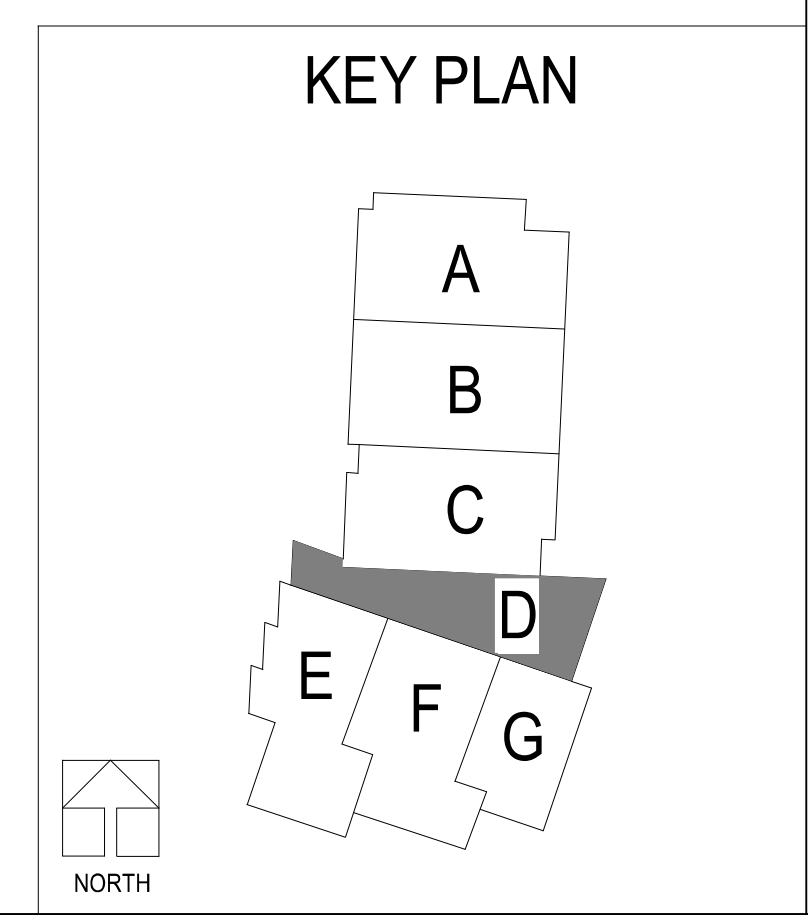


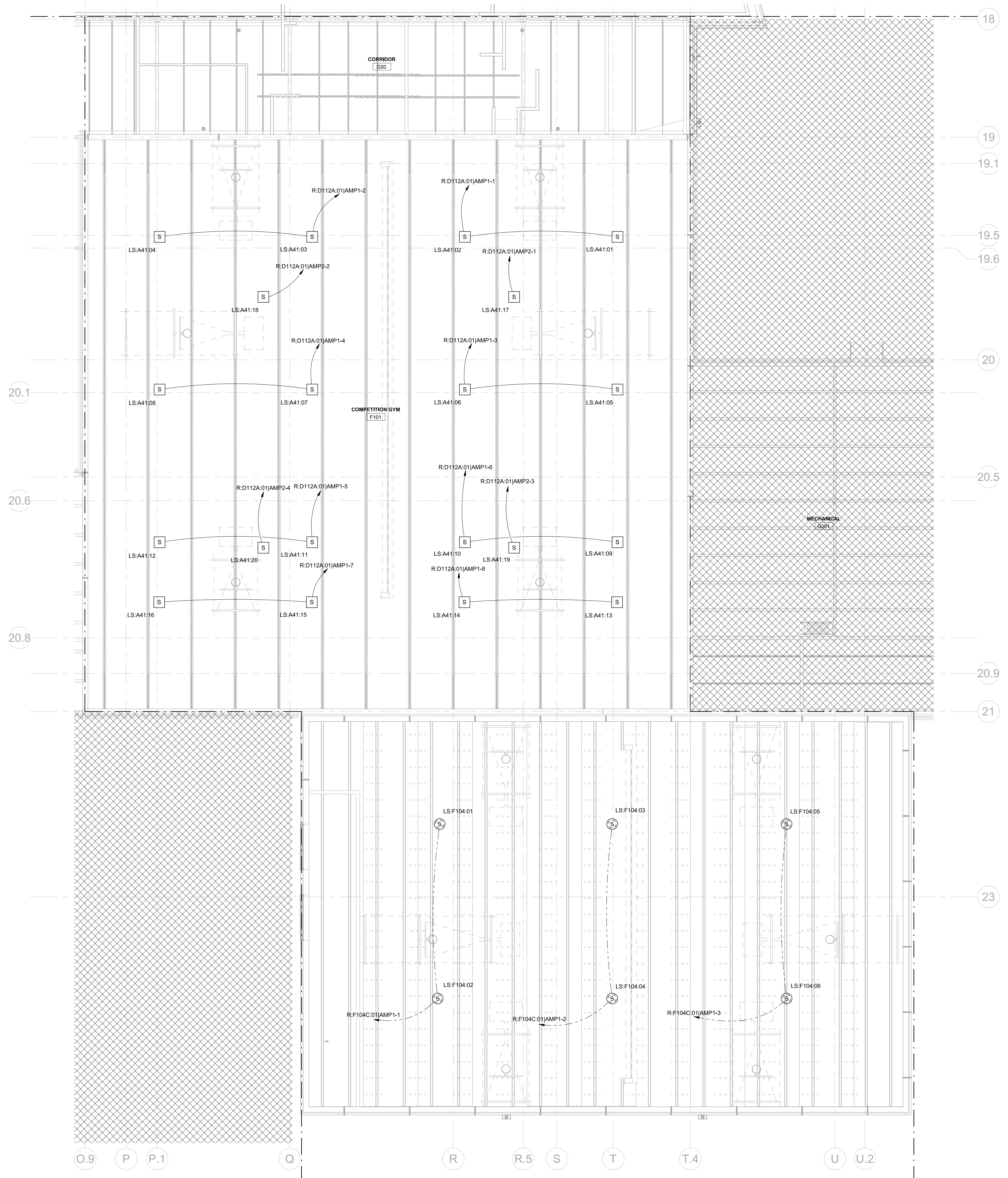
1 AUDIO-VIDEO FIRST LEVEL RCP - AREA D  
 1/8" = 1'-0"



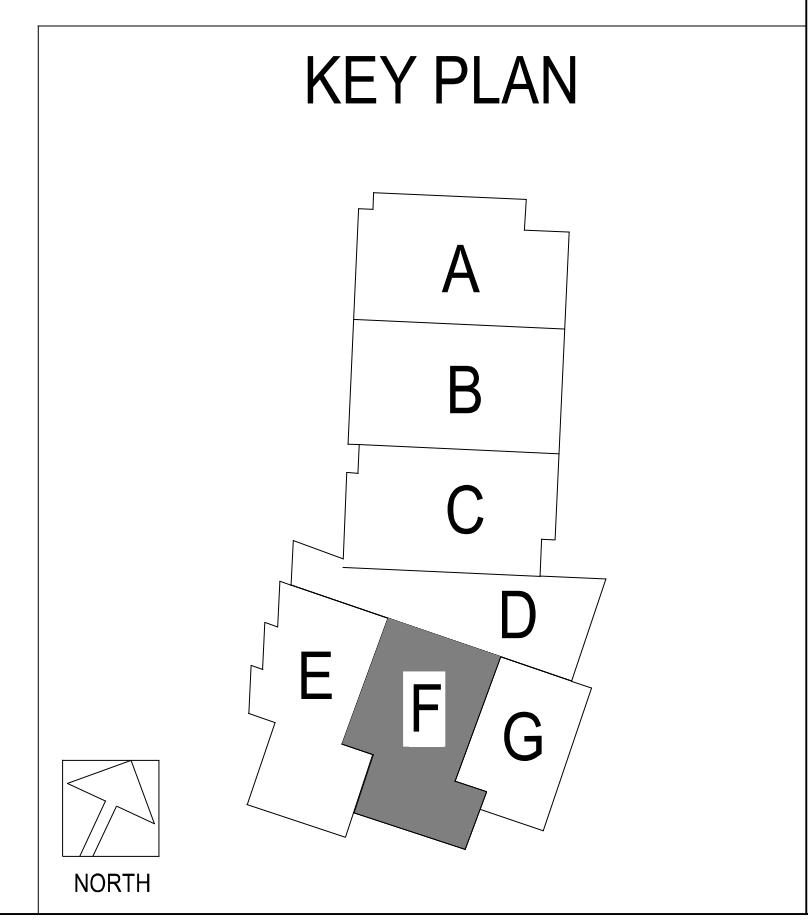


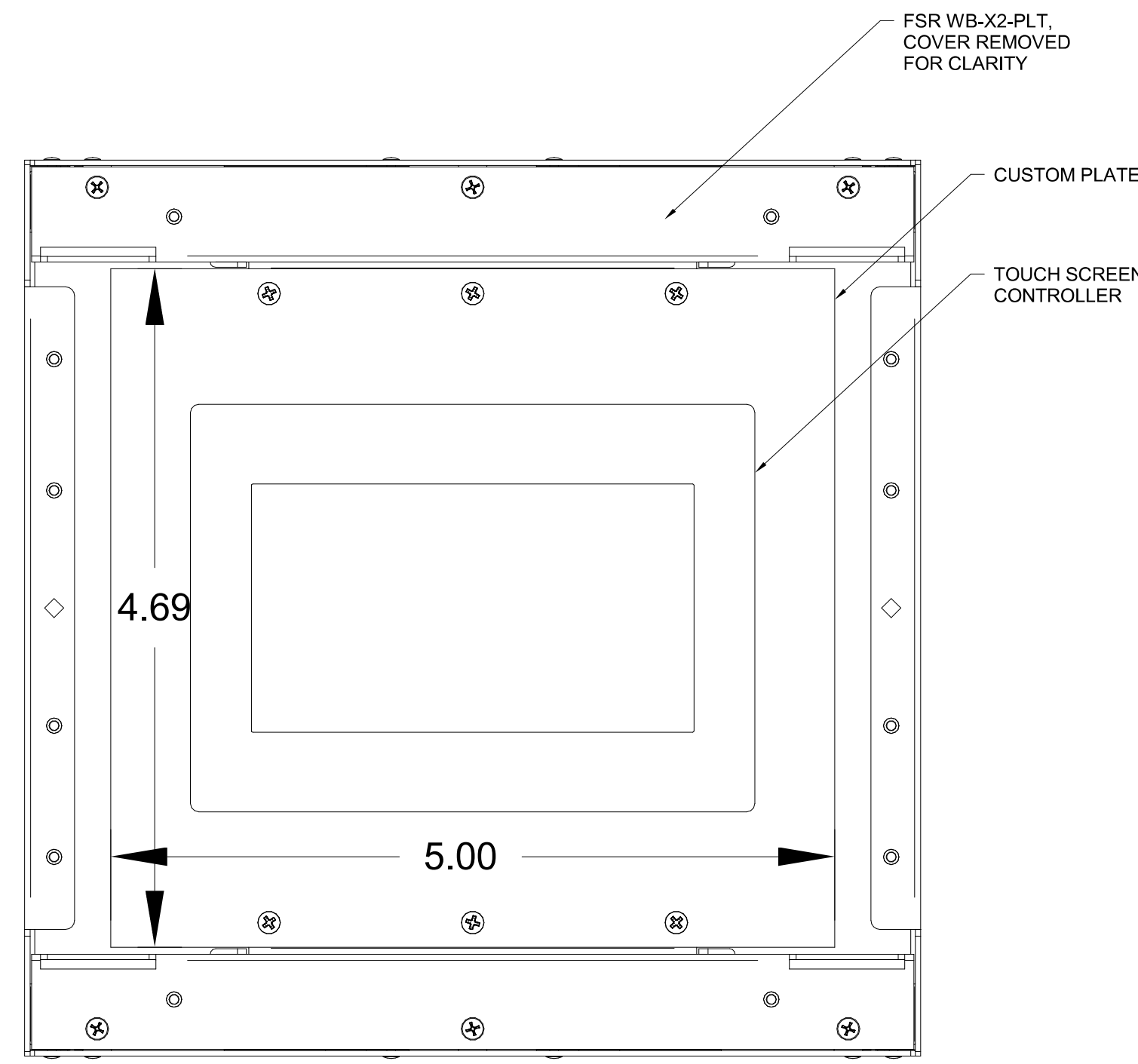
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 1/8" = 1'-0"





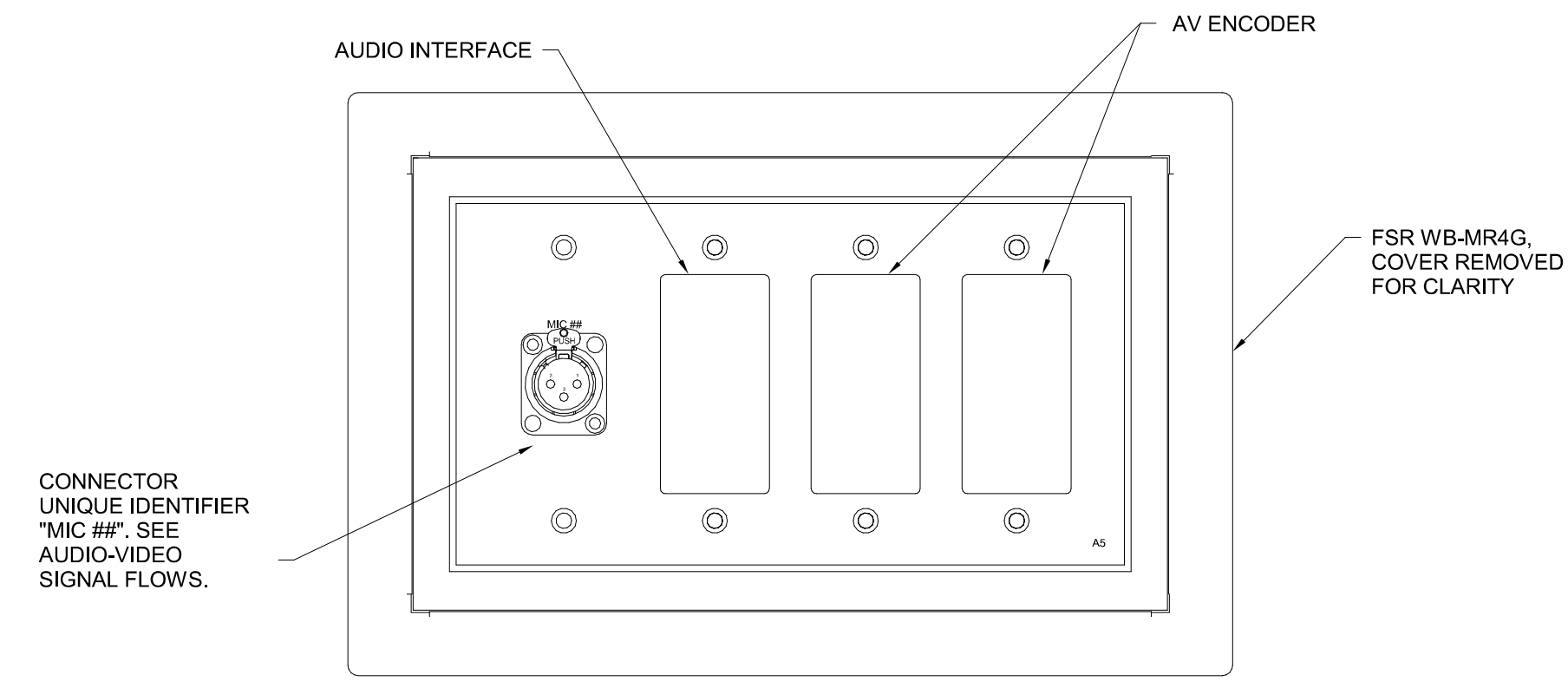
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1/8" = 1'-0"





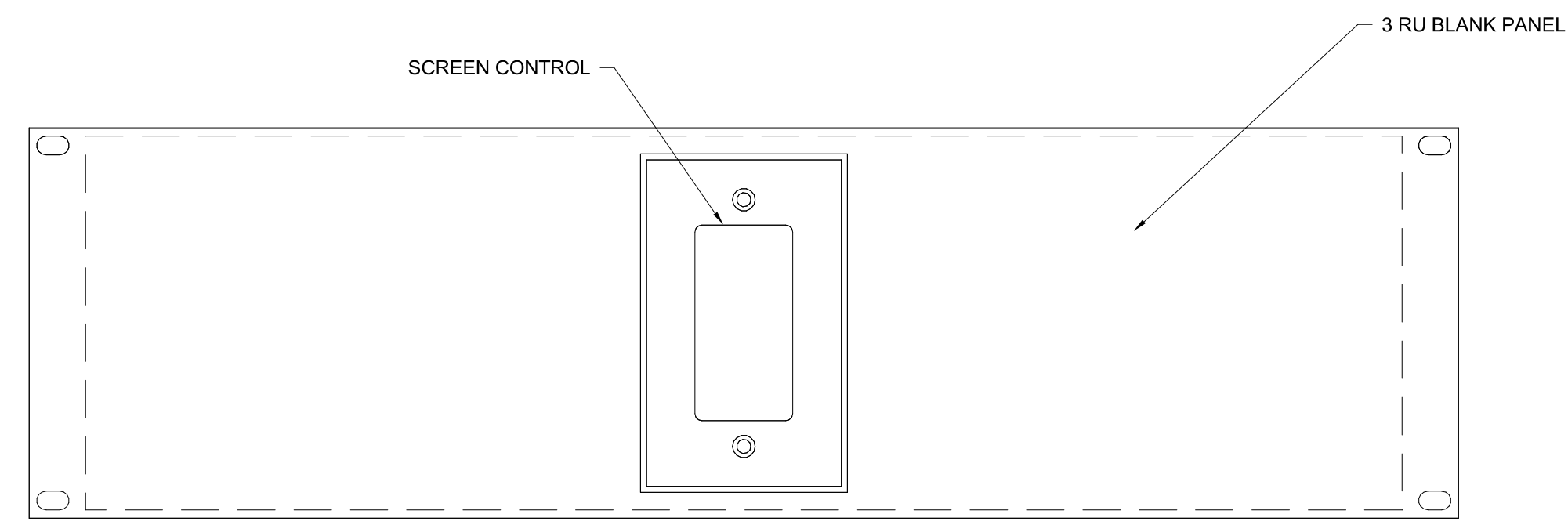
(SYMBOL )

1 AUDIO-VIDEO - TOUCH PANEL CONTROL WALL BOX  
NTS

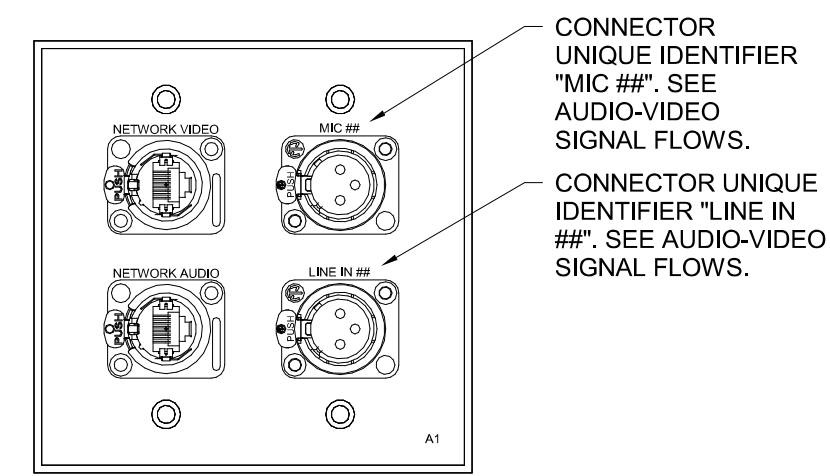


(SYMBOL )

2 AUDIO-VIDEO - INPUT BOX A5  
NTS

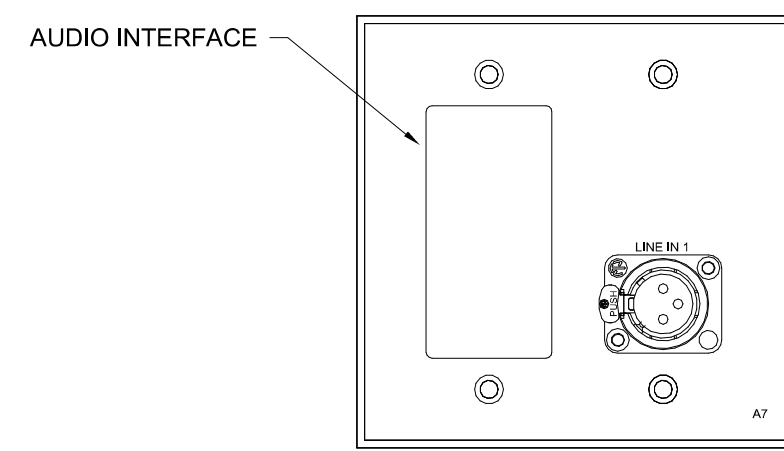


3 AUDIO-VIDEO - RACK PANEL  
NTS



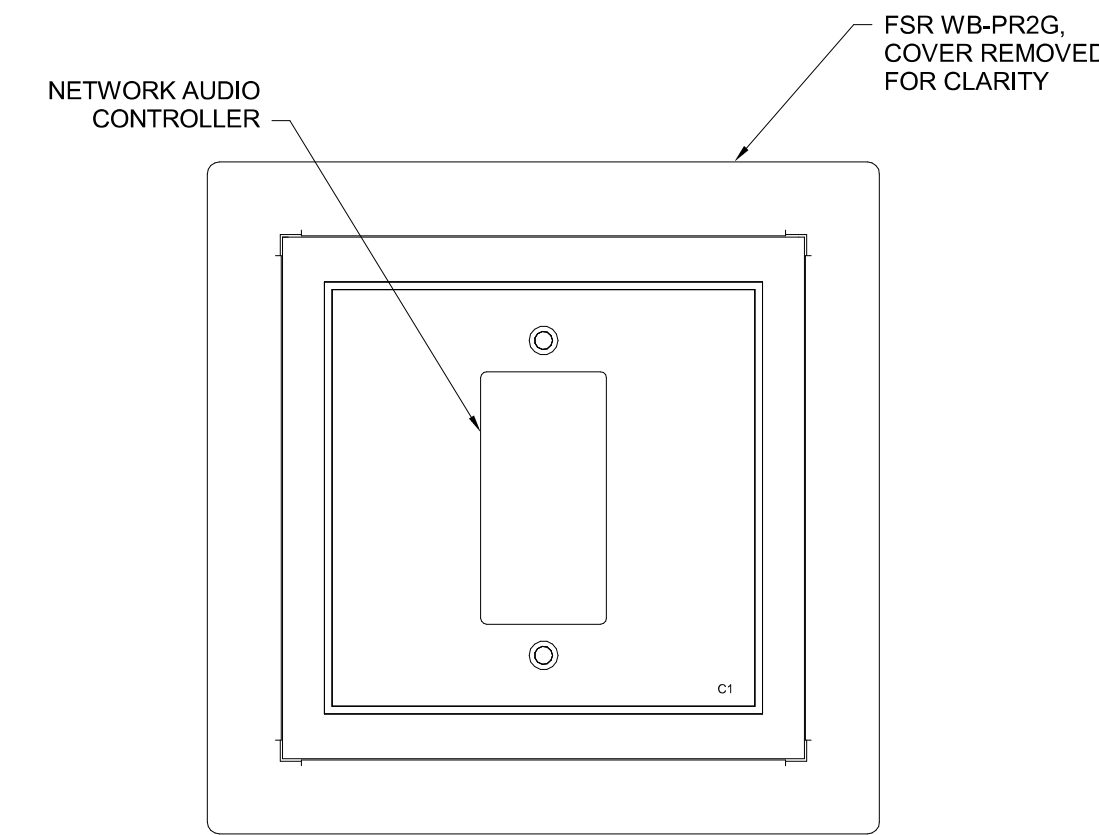
(SYMBOL )

4 AUDIO-VIDEO - INPUT BOX A1  
NTS



(SYMBOL )

5 AUDIO-VIDEO - INPUT BOX A7  
NTS



(SYMBOL )

6 AUDIO-VIDEO - BUTTON PANEL CONTROL WALL BOX  
NTS

21RU	LOGO PANEL
20RU	ALS TRANSMITTER
19RU	1RU BLANK PANEL
18RU	WIRELESS RECEIVER
17RU	1RU BLANK PANEL
16RU	DSP FIXED 8x8 FLEX 8 I/O
15RU	1RU BLANK PANEL
14RU	ETHERNET SWITCH
13RU	CABLE BRUSH
12RU	1RU BLANK PANEL
11RU	
10RU	RACK PANEL
9RU	
8RU	1RU BLANK PANEL
7RU	POWER AMPLIFIER
6RU	
5RU	1RU BLANK PANEL
4RU	UPS
3RU	
2RU	3RU STORAGE DRAWER
1RU	

R:D108 SHOWN

7 MEDIA CENTER D103 - RACK ELEVATION  
NTS

21RU	LOGO PANEL
20RU	ALS TRANSMITTER
19RU	1RU BLANK PANEL
18RU	WIRELESS MICROPHONE
17RU	1RU BLANK PANEL
16RU	DSP FIXED 8x8 FLEX 8 I/O
15RU	1RU BLANK PANEL
14RU	ETHERNET SWITCH
13RU	CABLE BRUSH
12RU	1RU BLANK PANEL
11RU	2RU BLANK PANEL
10RU	
9RU	2RU BLANK PANEL
8RU	
7RU	POWER AMPLIFIER
6RU	
5RU	1RU BLANK PANEL
4RU	UPS
3RU	
2RU	3RU STORAGE DRAWER
1RU	

R:F104C SHOWN

8 AUXILIARY GYM F104 - RACK ELEVATION  
NTS

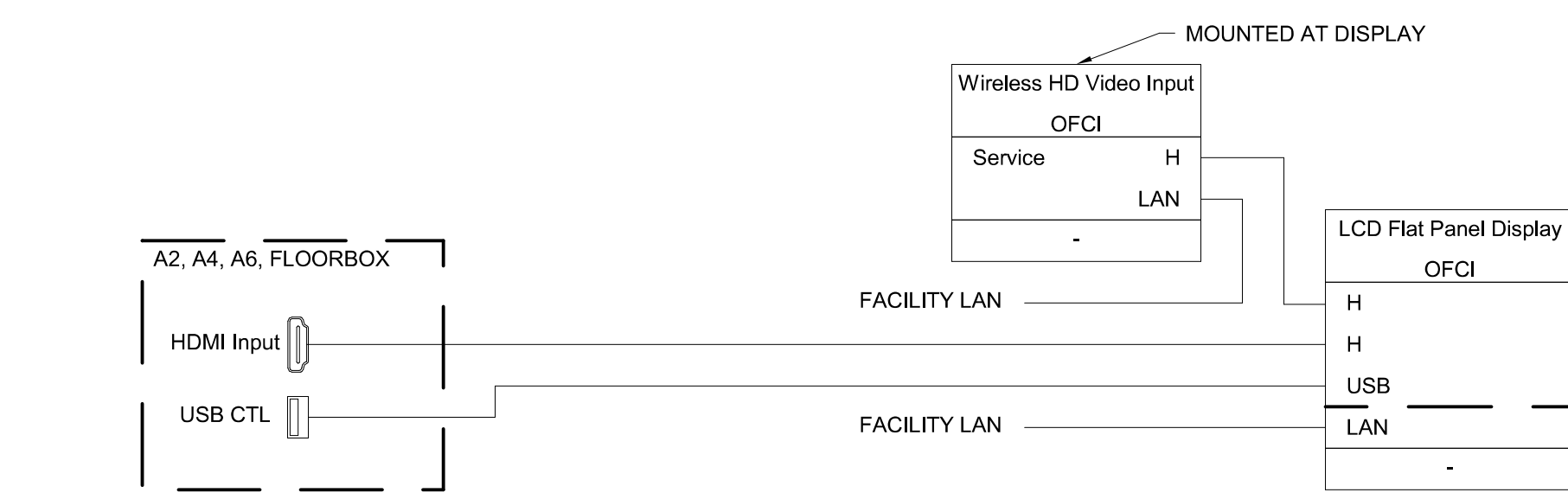
44RU	LOGO PANEL
43RU	ALS TRANSMITTER
42RU	ALS TRANSMITTER
41RU	2RU BLANK PANEL
40RU	
39RU	WIRELESS ANTENNA DA
38RU	ANTENNA COMBINER
37RU	WIRELESS MICROPHONE
36RU	WIRELESS MICROPHONE
35RU	WIRELESS MICROPHONE
34RU	WIRELESS MICROPHONE
33RU	
32RU	2RU BLANK PANEL
31RU	DSP FIXED 8x8 FLEX 8 I/O
30RU	1RU BLANK PANEL
29RU	ETHERNET SWITCH
28RU	CABLE BRUSH
27RU	
26RU	2RU BLANK PANEL
25RU	
24RU	RACK PANEL
23RU	
22RU	
21RU	3RU STORAGE DRAWER
20RU	
19RU	2RU BLANK PANEL
18RU	
17RU	2RU BLANK PANEL
16RU	
15RU	2RU BLANK PANEL
14RU	
13RU	2RU BLANK PANEL
12RU	
11RU	POWER AMPLIFIER
10RU	
9RU	2RU BLANK PANEL
8RU	
7RU	POWER AMPLIFIER
6RU	
5RU	2RU BLANK PANEL
4RU	
3RU	UPS
2RU	
1RU	2RU BLANK PANEL

R:D112A SHOWN

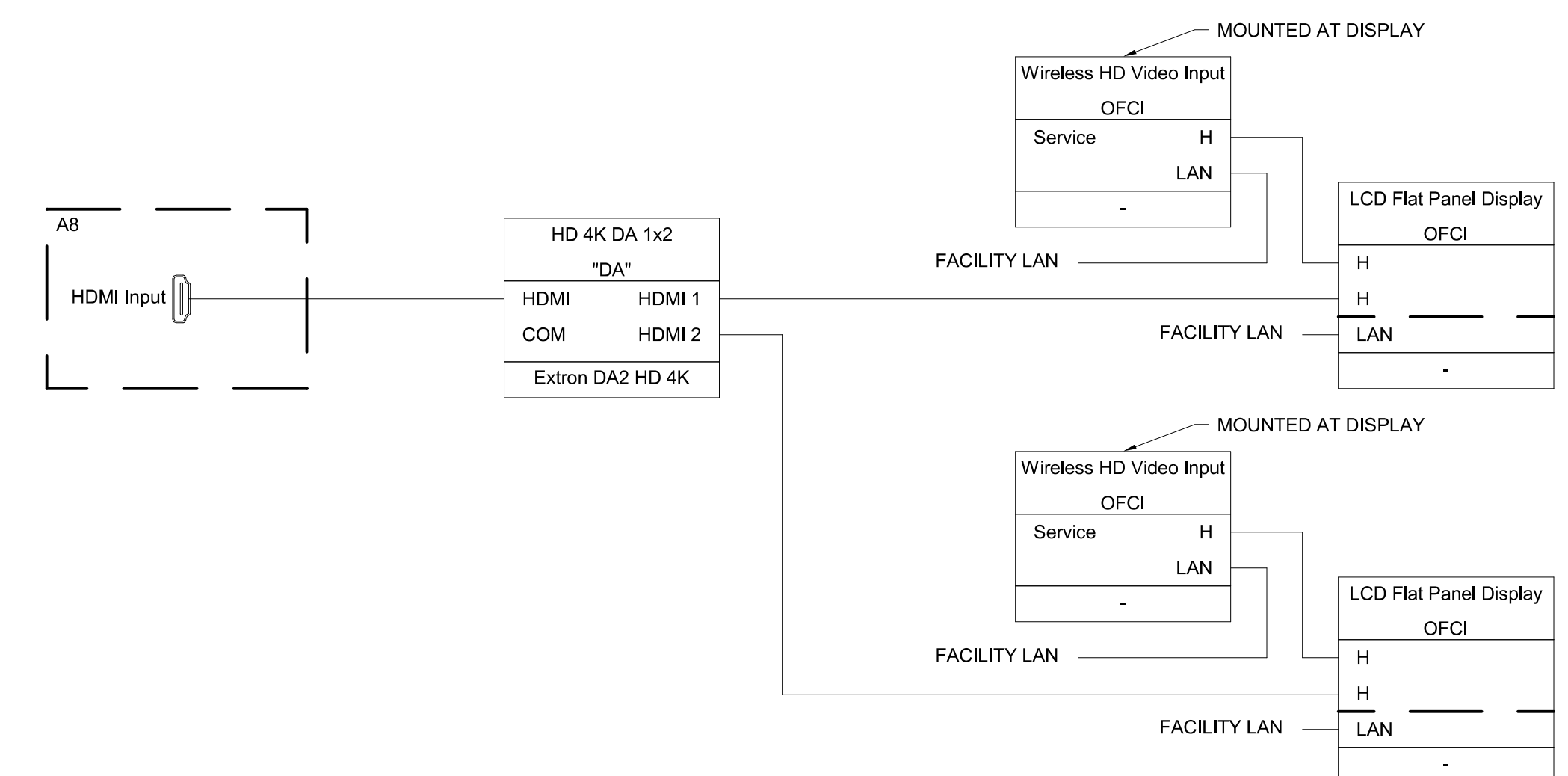
9 COMPETITION GYM F101, PLATFORM D112, COMMONS D101 - RACK ELEVATION  
NTS





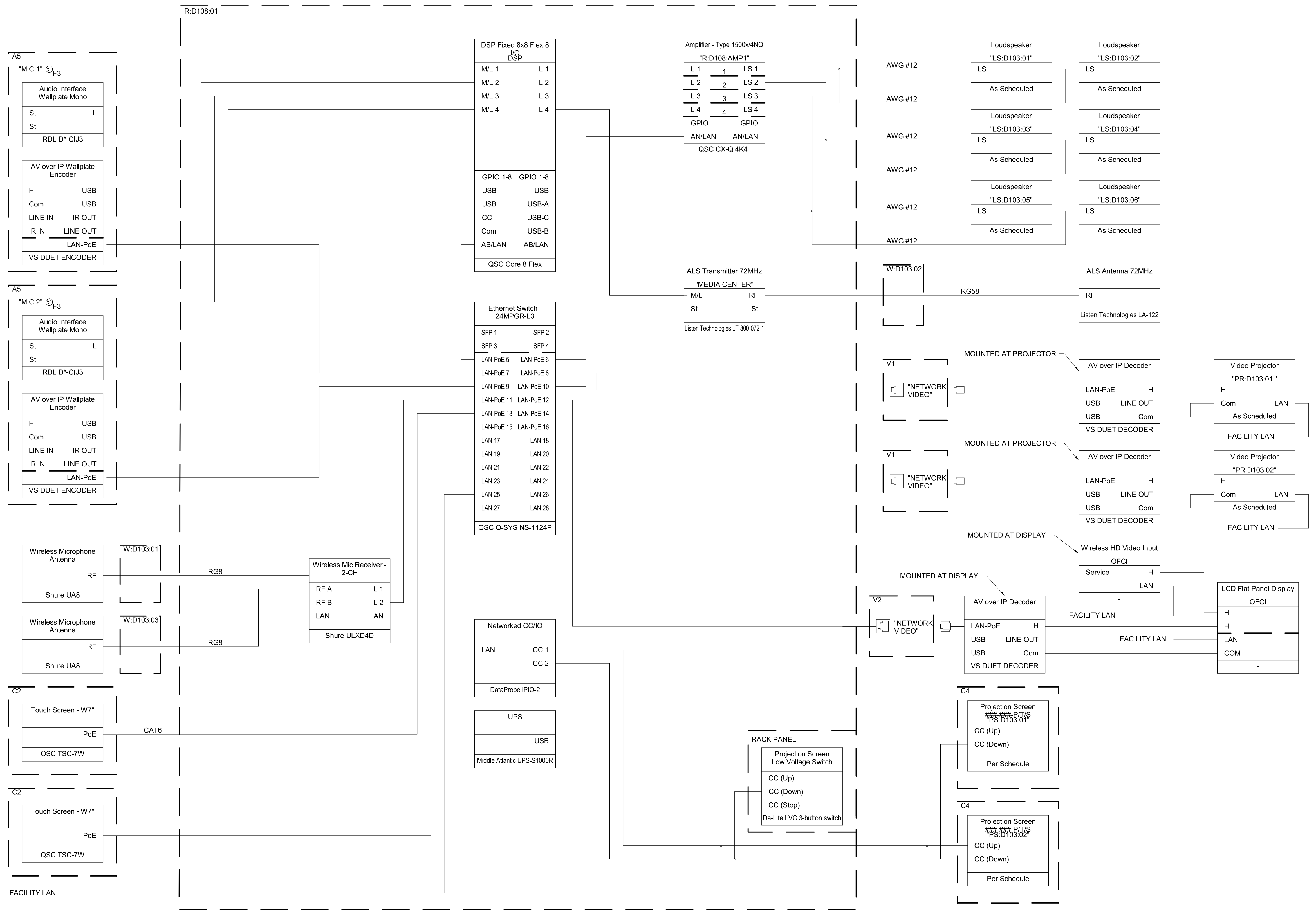


1 TYPICAL CLASSROOM/CONFERENCE ROOM - AUDIO-VIDEO SYSTEMS

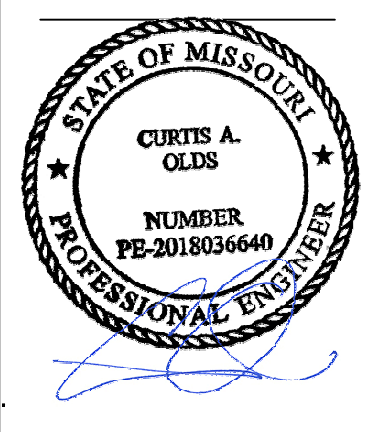


2 TYPICAL COLLABORATION ROOM - AUDIO-VIDEO SYSTEMS

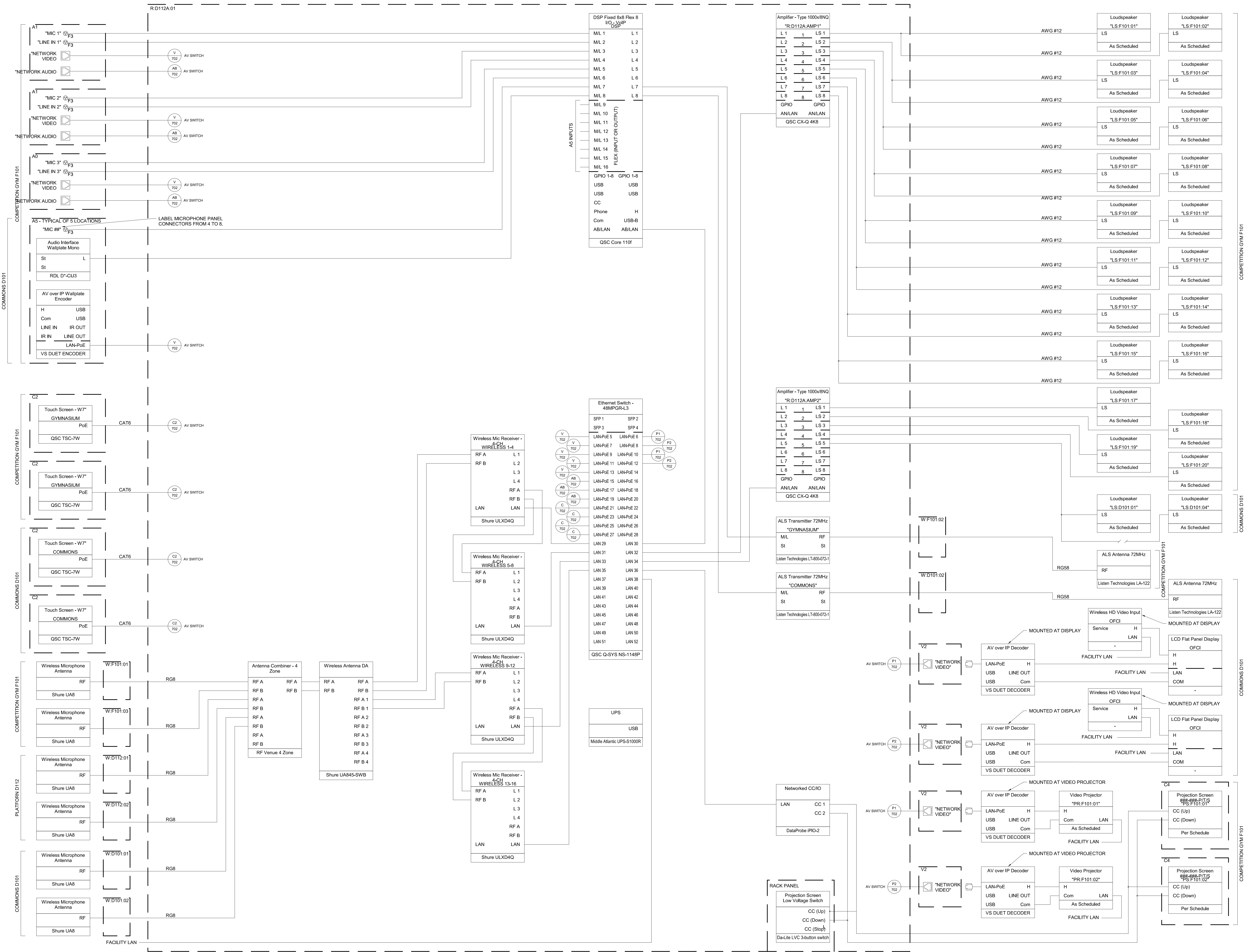
NOTES:  
 SYSTEM ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS:  
 1.1 SCIENCE COLLABORATION A100B  
 1.2 COLLABORATION B100B  
 1.3 COLLABORATION C100B



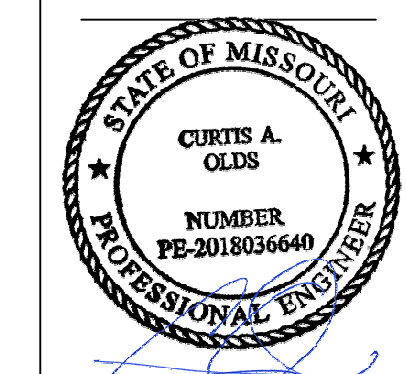
3 MEDIA CENTER D103 - AUDIO-VIDEO SYSTEM



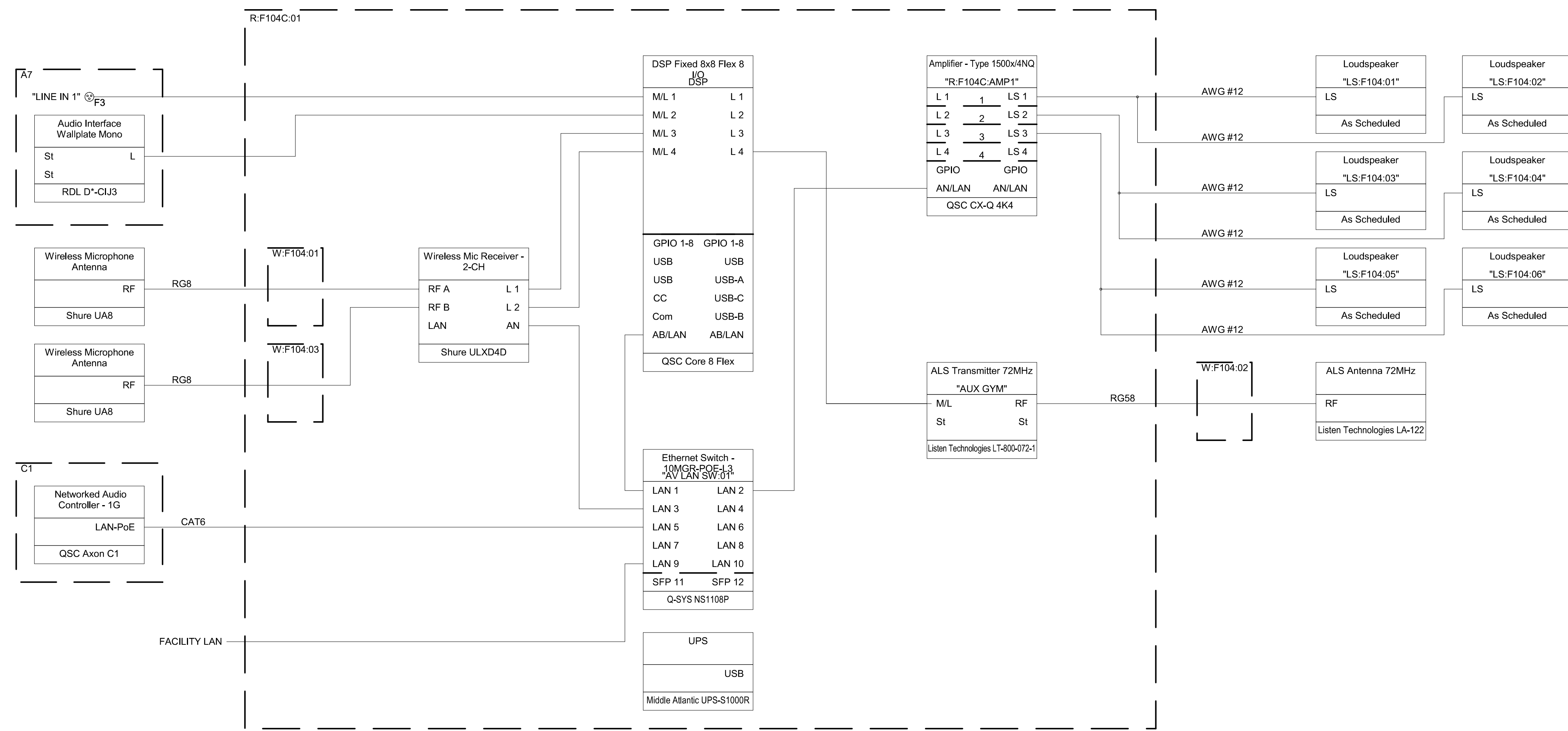
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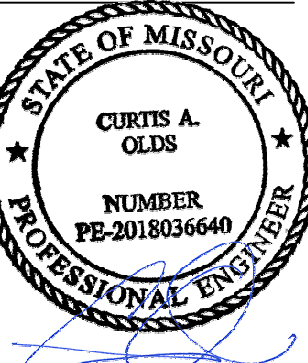
1 COMPETITION GYM F101, PLATFORM D112, COMMONS D101 - AUDIO-VIDEO SYSTEMS



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① AUXILIARY GYM F104 - AUDIO SYSTEM



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