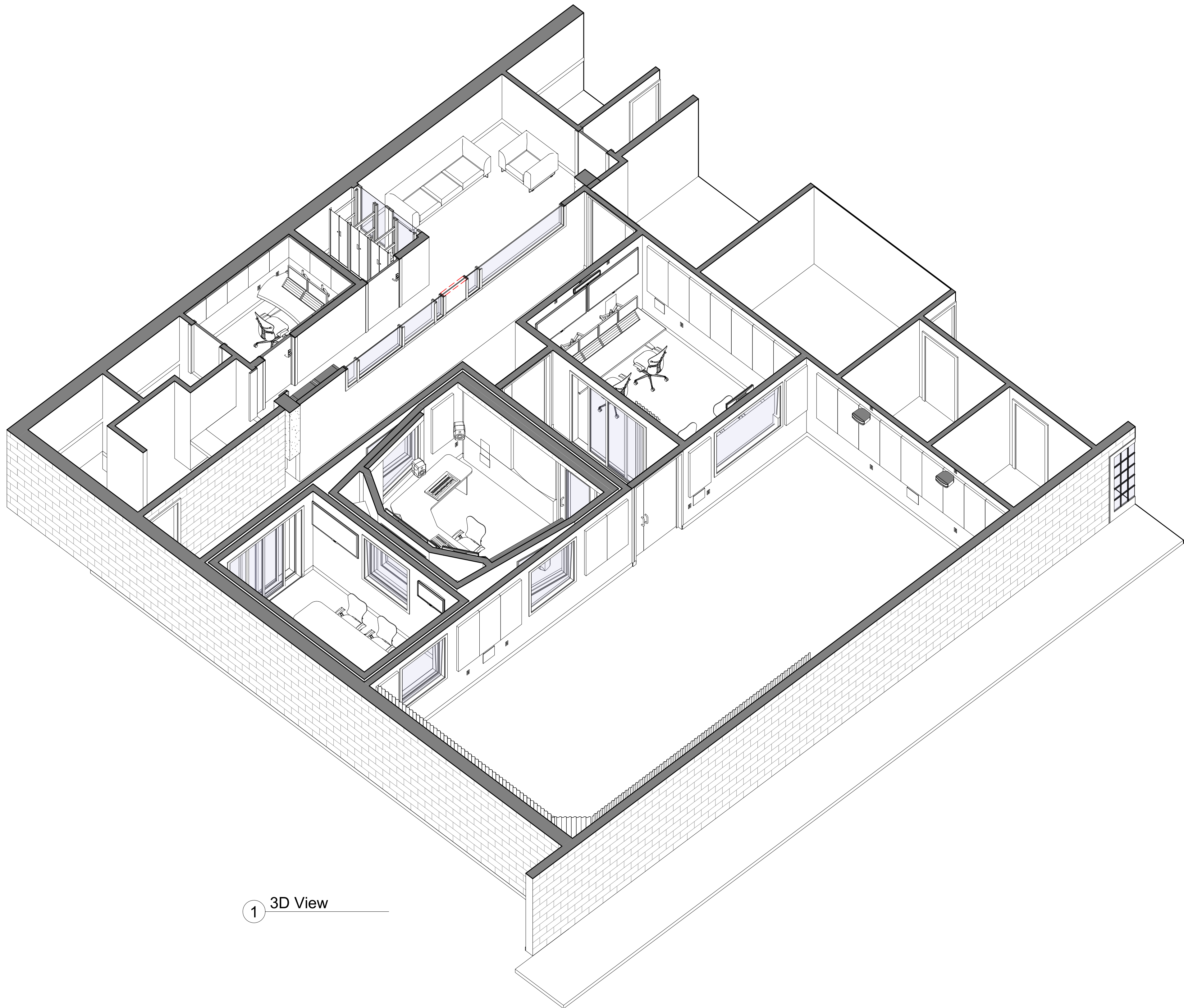


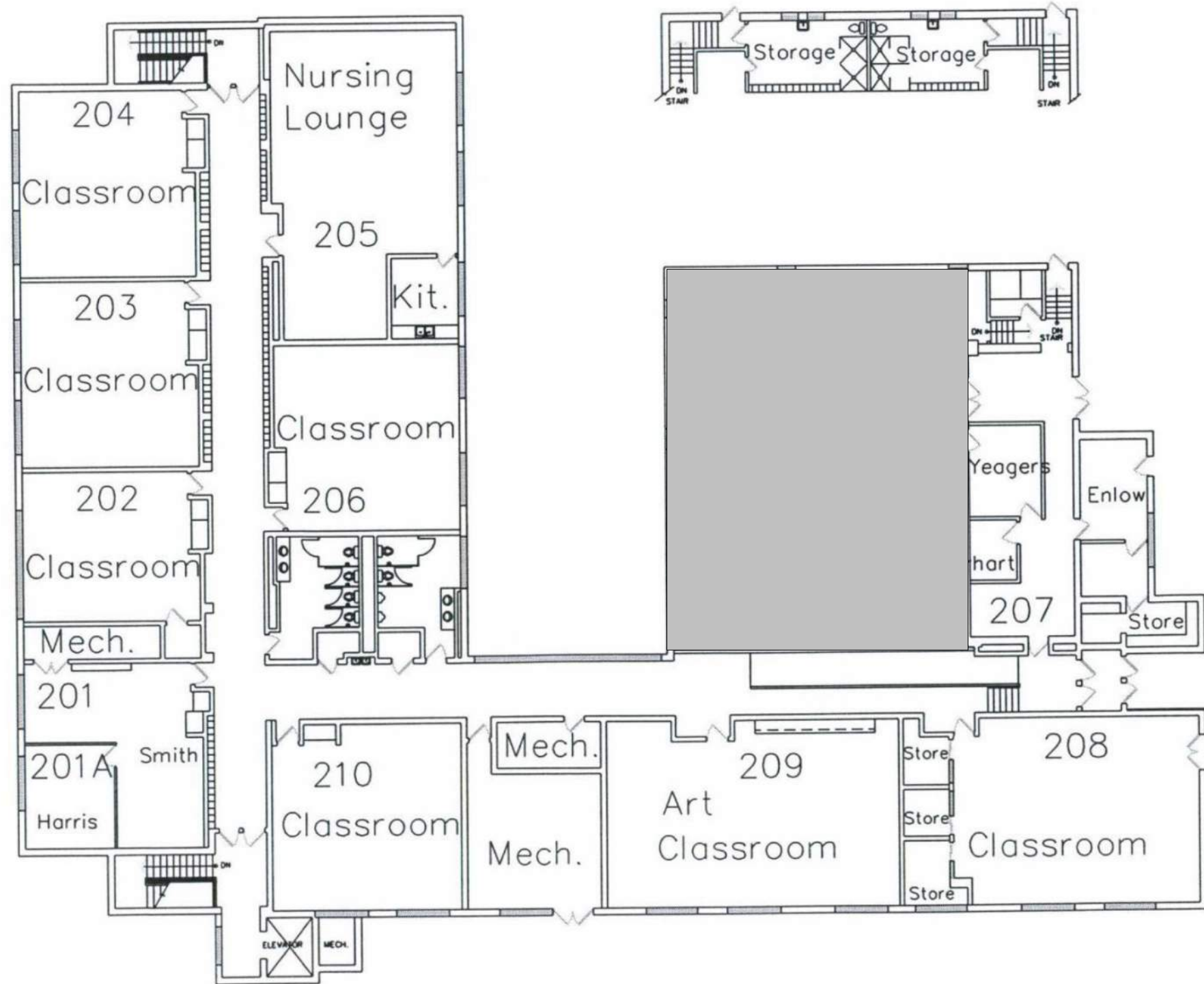
Eliff Hall Studio Renovation
100% CD - Pricing Set



1 3D View

Drawing List 100% CD May 5, 2023		
Sheet #	Sheet Name	100% CD Set
A0.1	Cover Sheet	☑
A0.2	Specifications	☑
A0.3	Specifications	☑
A0.4	Legend And Abbreviations	☑
A0.5	ADA / MAAB Details	☑
A0.6	ADA / MAAB Details	☑
A0.7	3D Images	☑
A0.8	Demolition Scope	☑
A1.1	Overall Construction Plan	☑
A1.2	Overall Reflected Ceiling Plan	☑
A1.3	Overall Furniture Plan	☑
A1.4	Overall Cut-Slab Plan	☑
A1.5	Partial Construction Floor Plan @Studio	☑
A1.6	Partial Reflected Ceiling Plan @Studio	☑
A1.7	Partial Construction Floor & RCP Plan @Lounge	☑
A2.1	Sections	☑
A2.2	Sections	☑
A2.3	Sections	☑
A2.4	Sections	☑
A3.1	Acoustic Boundary Assemblies	☑
A4.1	Doors Schedule & Details	☑
A4.2	Windows Schedule & Details	☑
A5.1	Acoustic Details	☑
A5.2	Acoustic Details	☑
A5.3	Acoustic Details	☑
A5.4	Acoustic Details	☑
I1.1	Infrastructure dwgs	☑
I1.2	Infrastructure dwgs	☑
I1.3	Infrastructure dwgs	☑

Scope of Work



EXACT FINISHES HAVE NOT BEEN SELECTED YET. ASSUME THE FOLLOWING FOR PRICING:
1. PAINT: BENJAMIN MOORE
2. WOOD: POPLAR - PAINTED
3. FABRIC: GUILDFORD OF MAINE - FR701

MALICOAT - WINSLOW ENGINEERS, INC.
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4840 RANGELINE STREET, #101
COLUMBIA, MISSOURI 65202
TEL 573-875-1300
FAX 573-875-1305
FREDDIE MALICOAT, P.E.

CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS & CONDITIONS AT JOB SITE.

WSDG
WALTERS-STORYK DESIGN GROUP
262 Martin Avenue
Highland, New York 12528, USA
Tel: +1 845 691 9300
www.WSDG.com

Revisions		
No.	Date	Description

Eliff Hall Studio Renovation

Lincoln University
709 E Dunklin Street
Jefferson City, MO 65101

Date: May 5, 2023
Scale: 3/32" = 1'-0"
Drawn By: RL

Cover Sheet

A0.1

</

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Revisions		
No.	Date	Description

Eliff Hall Studio Renovation

Lincoln University 709 E Dunklin Street Jefferson City, MO 65101

Date: May 5, 2023

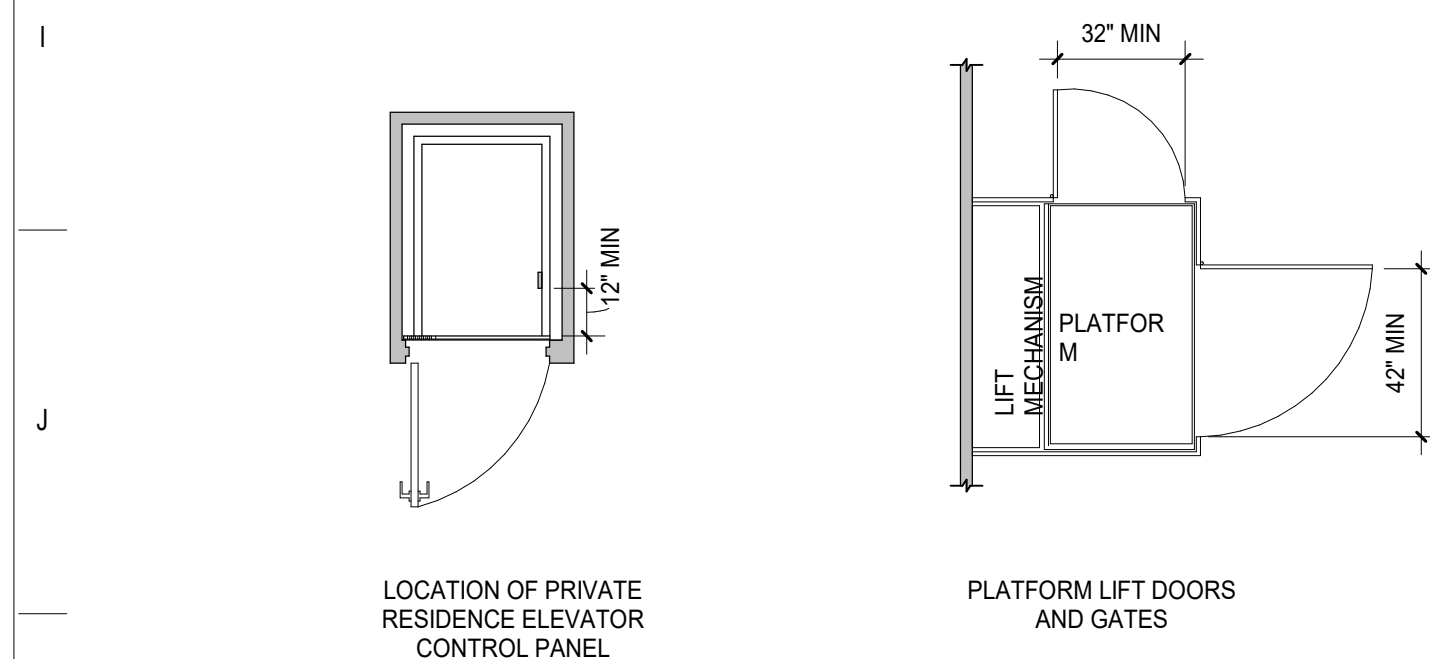
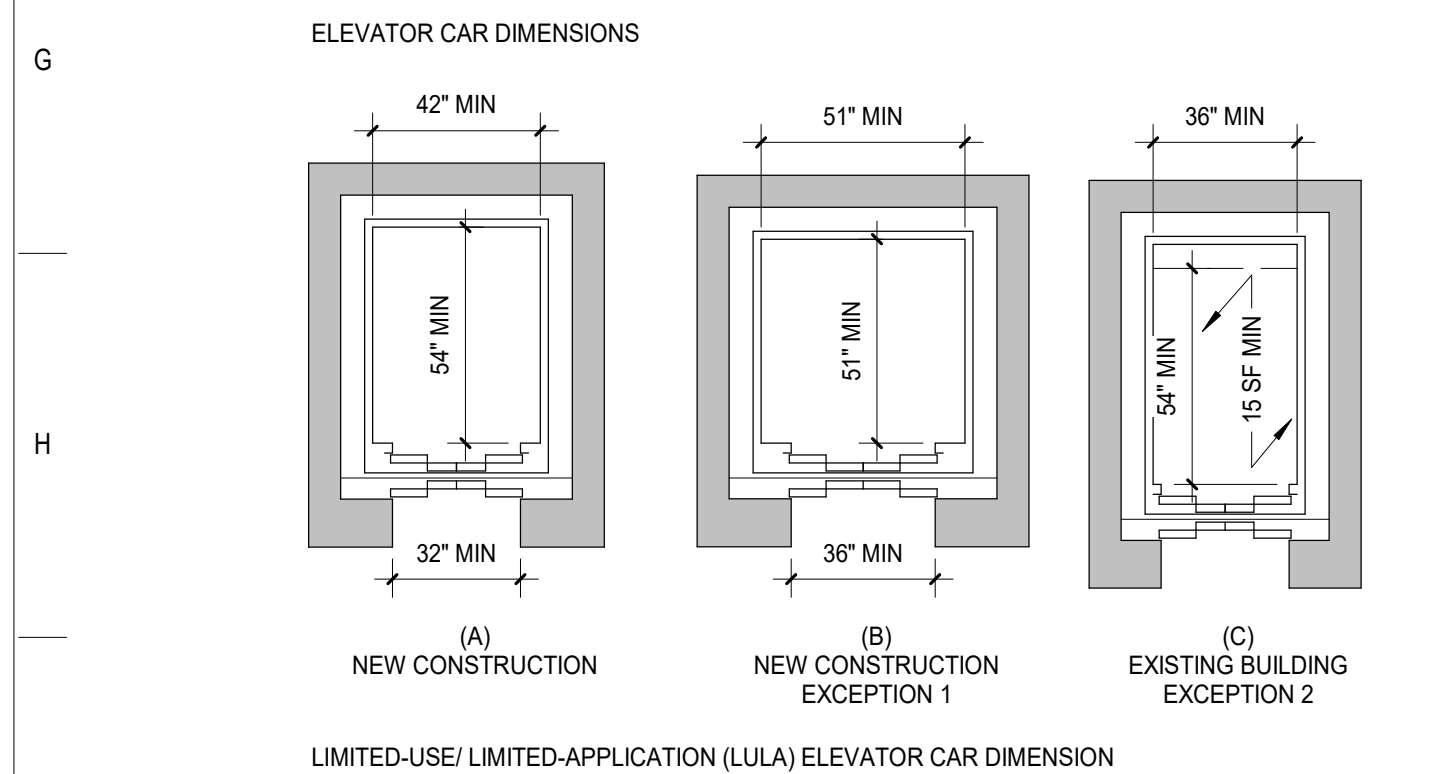
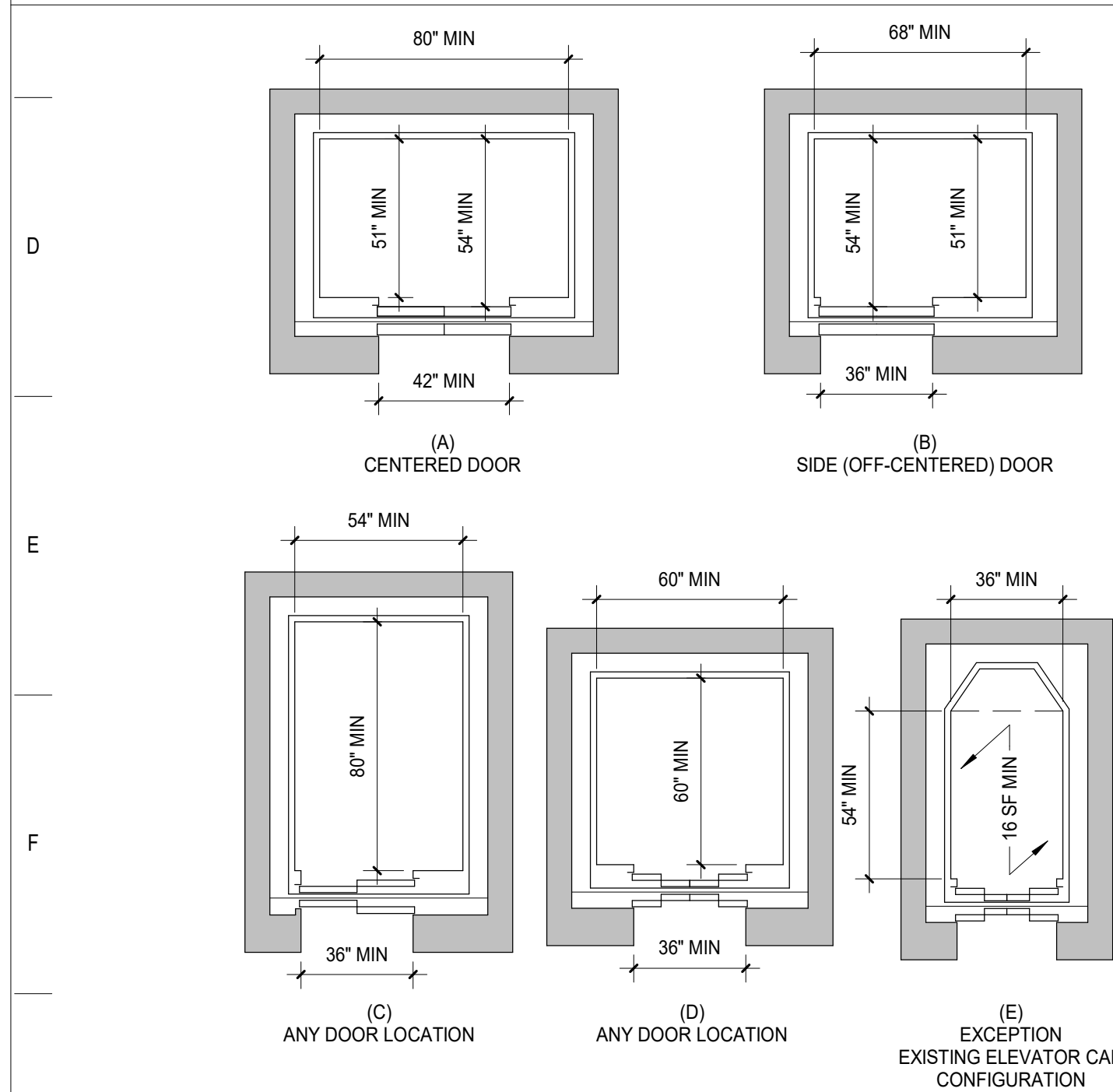
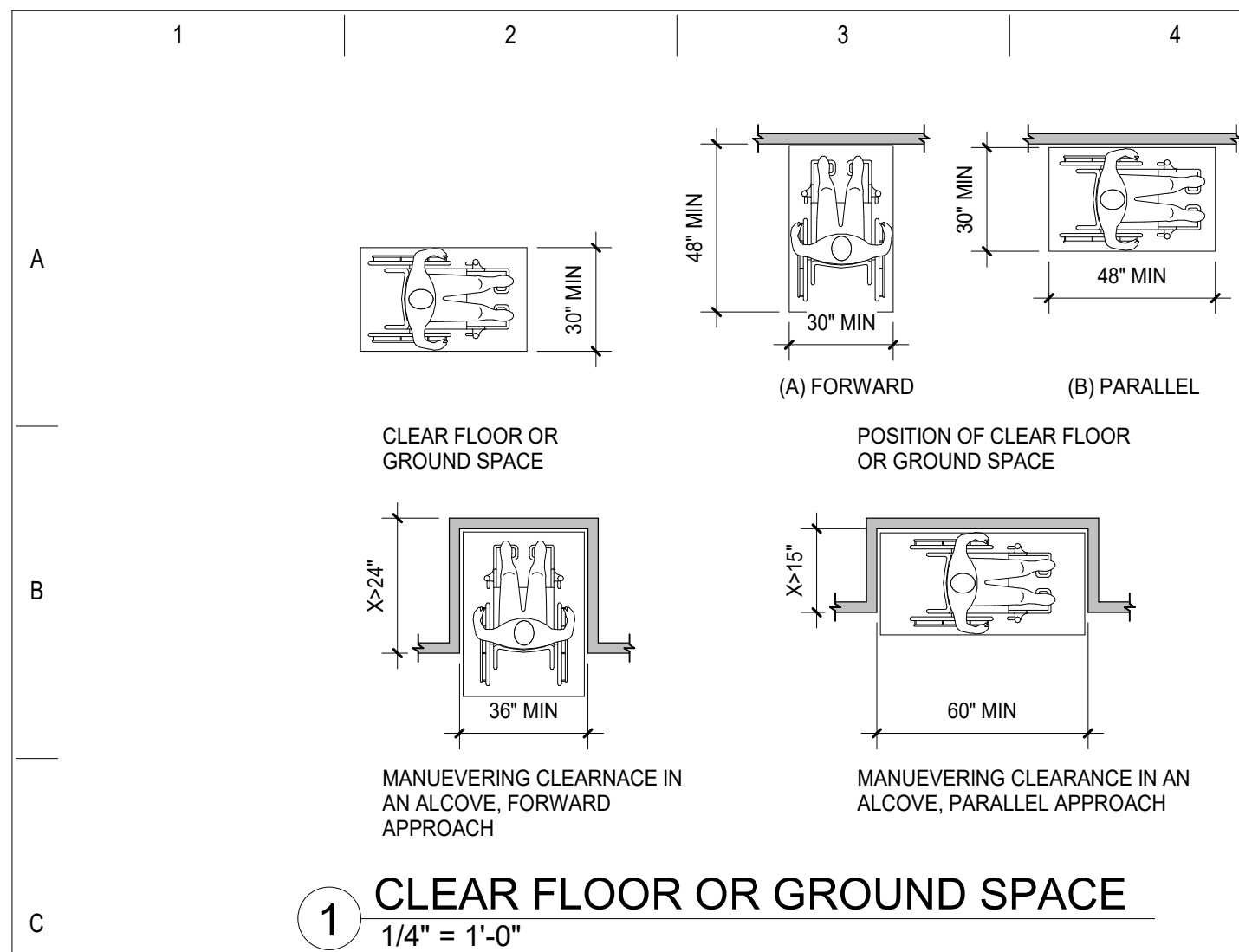
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Drawn By: RL

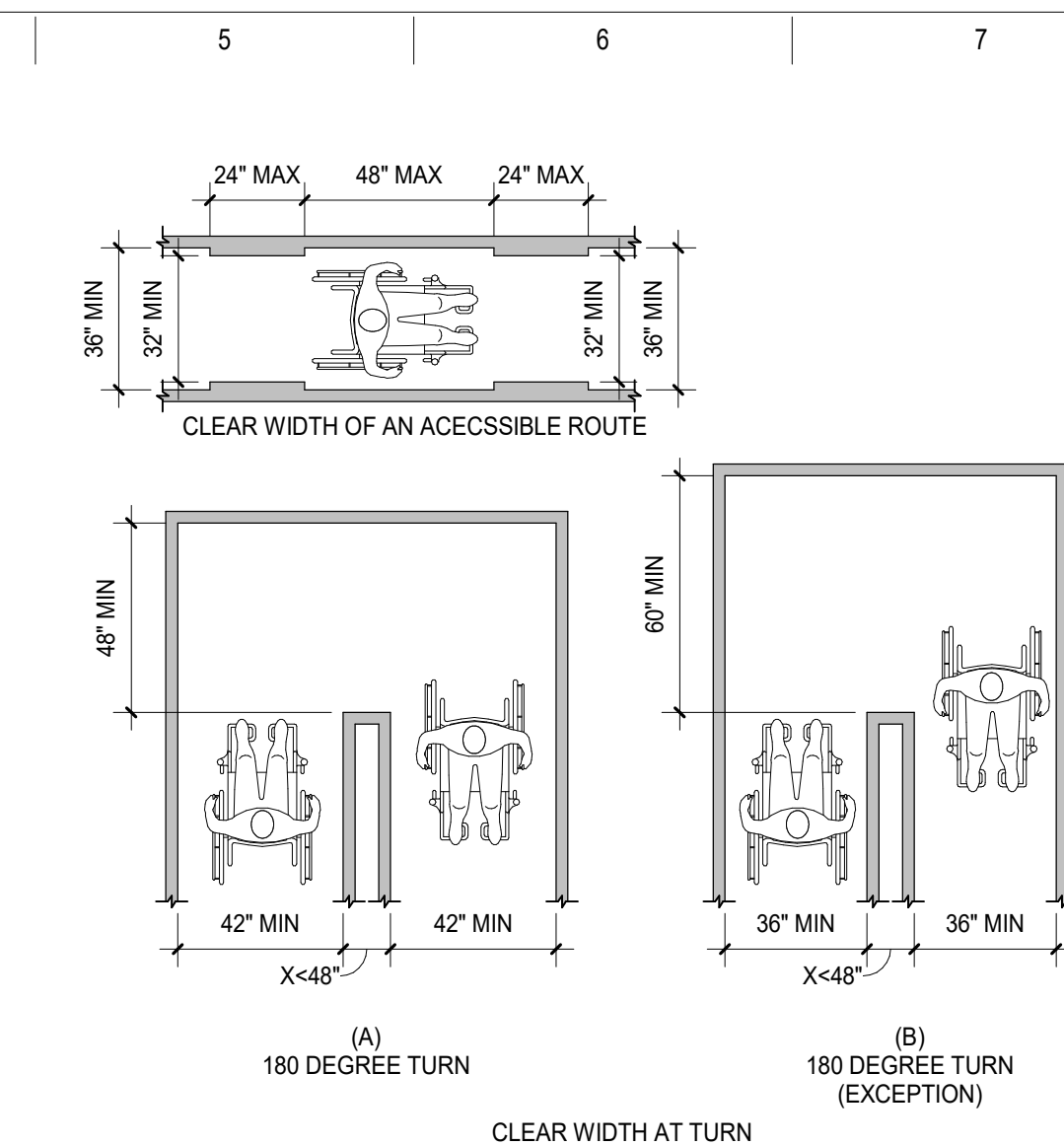
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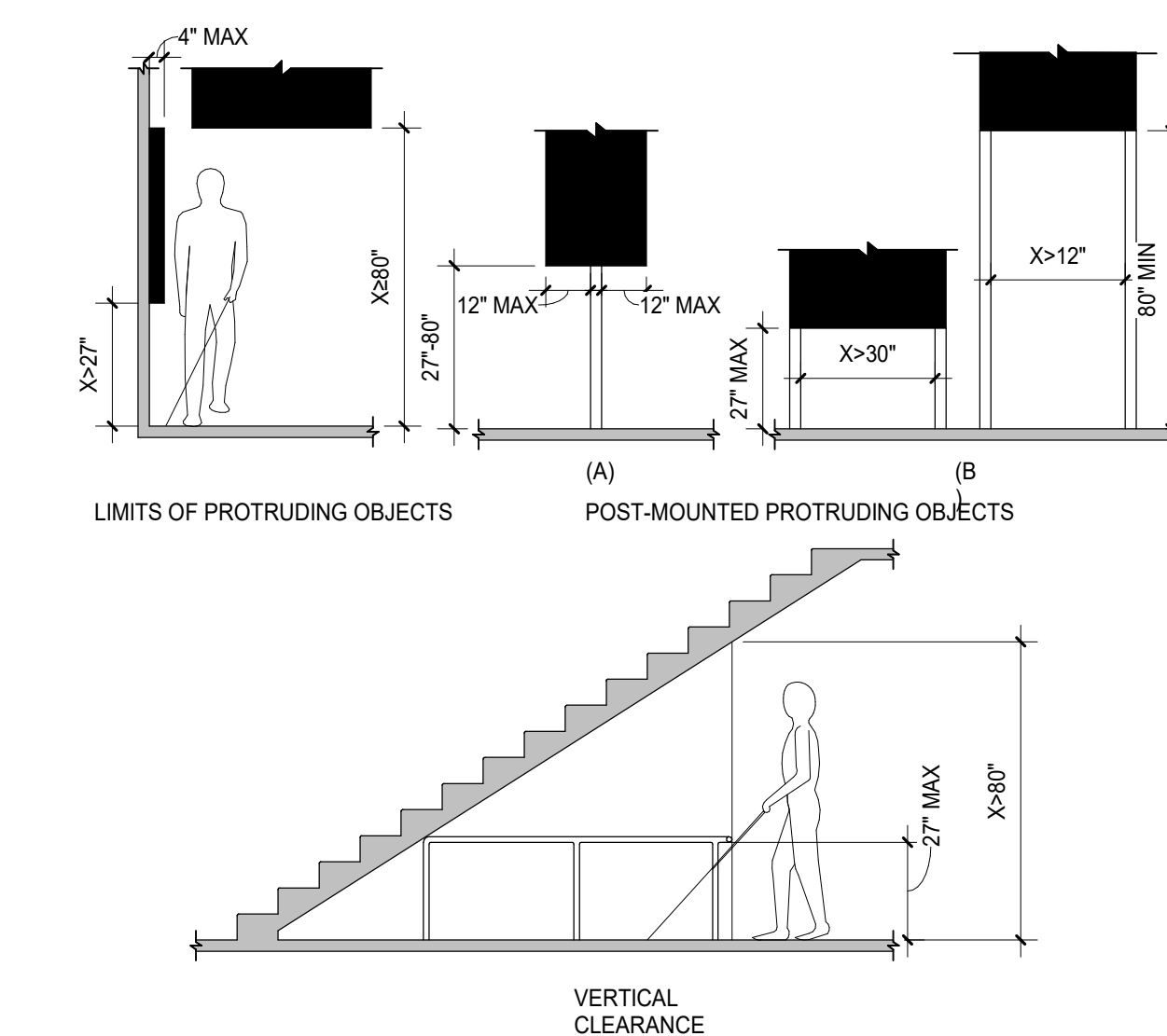
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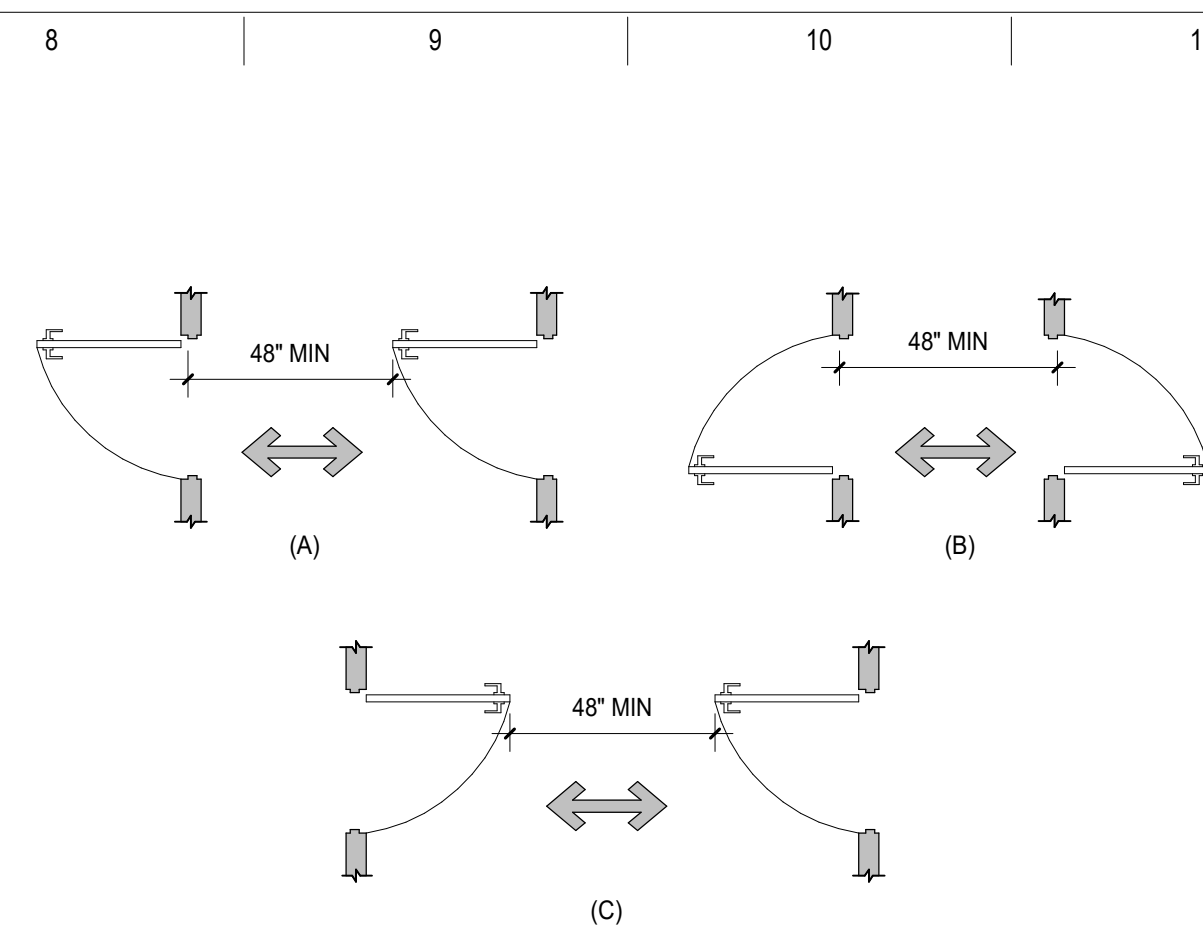
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1/4" = 1'-0"



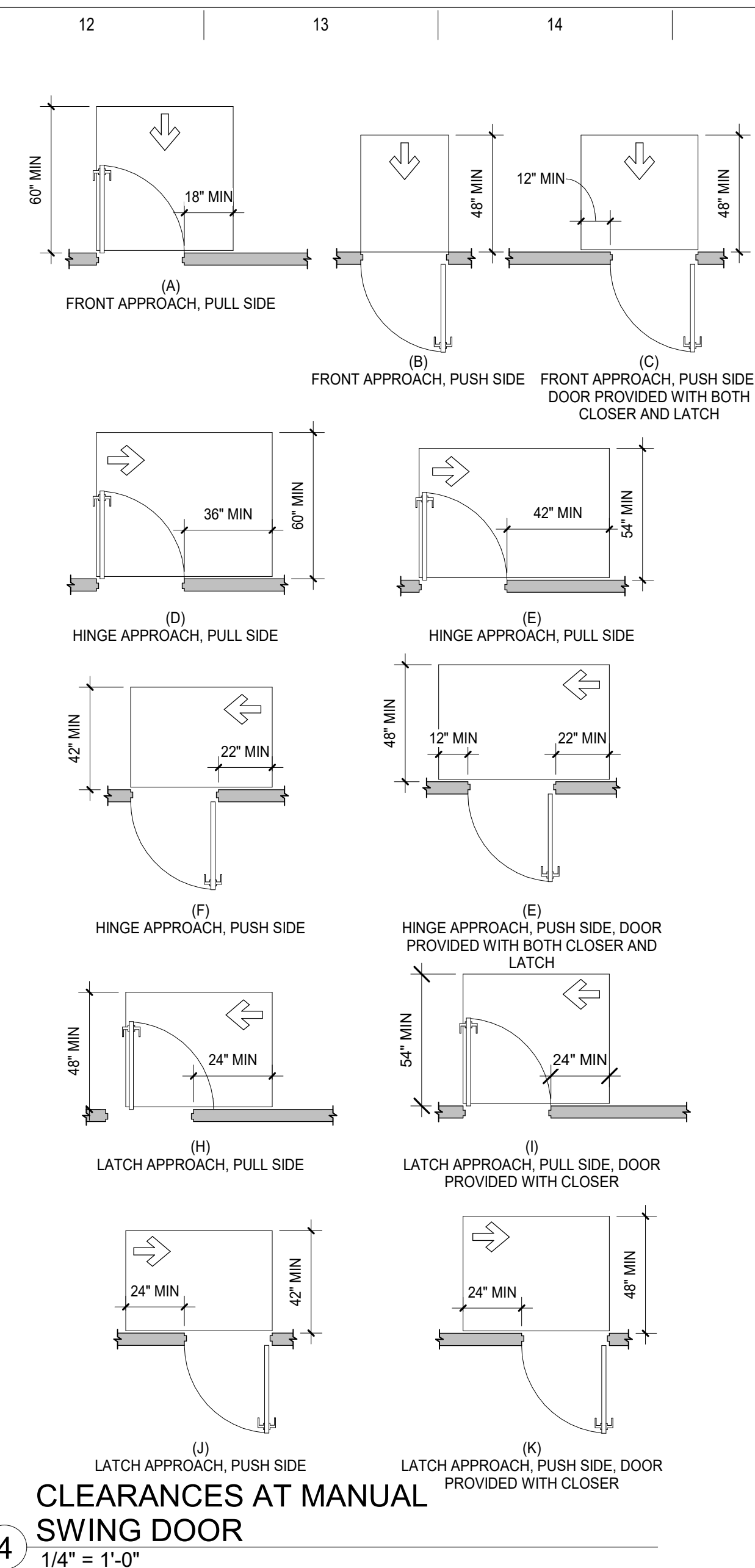
2 WALKING SURFACES



6 PROTRUDING OBJECTS
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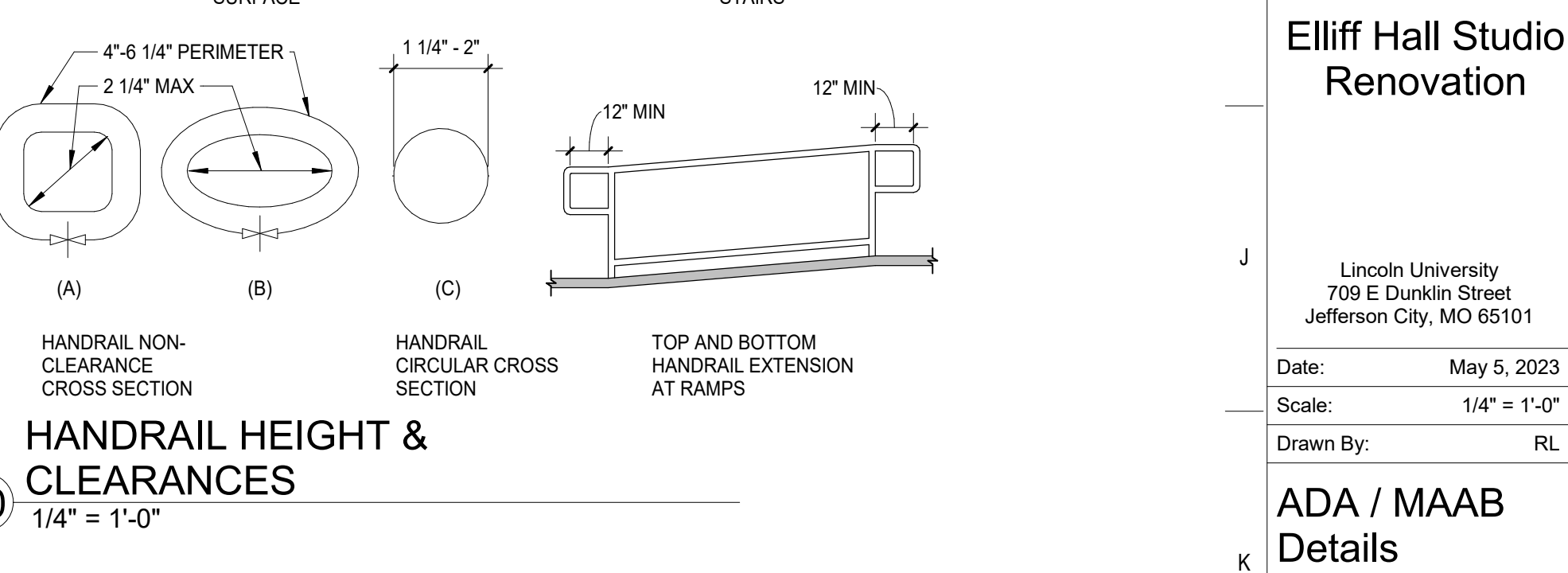
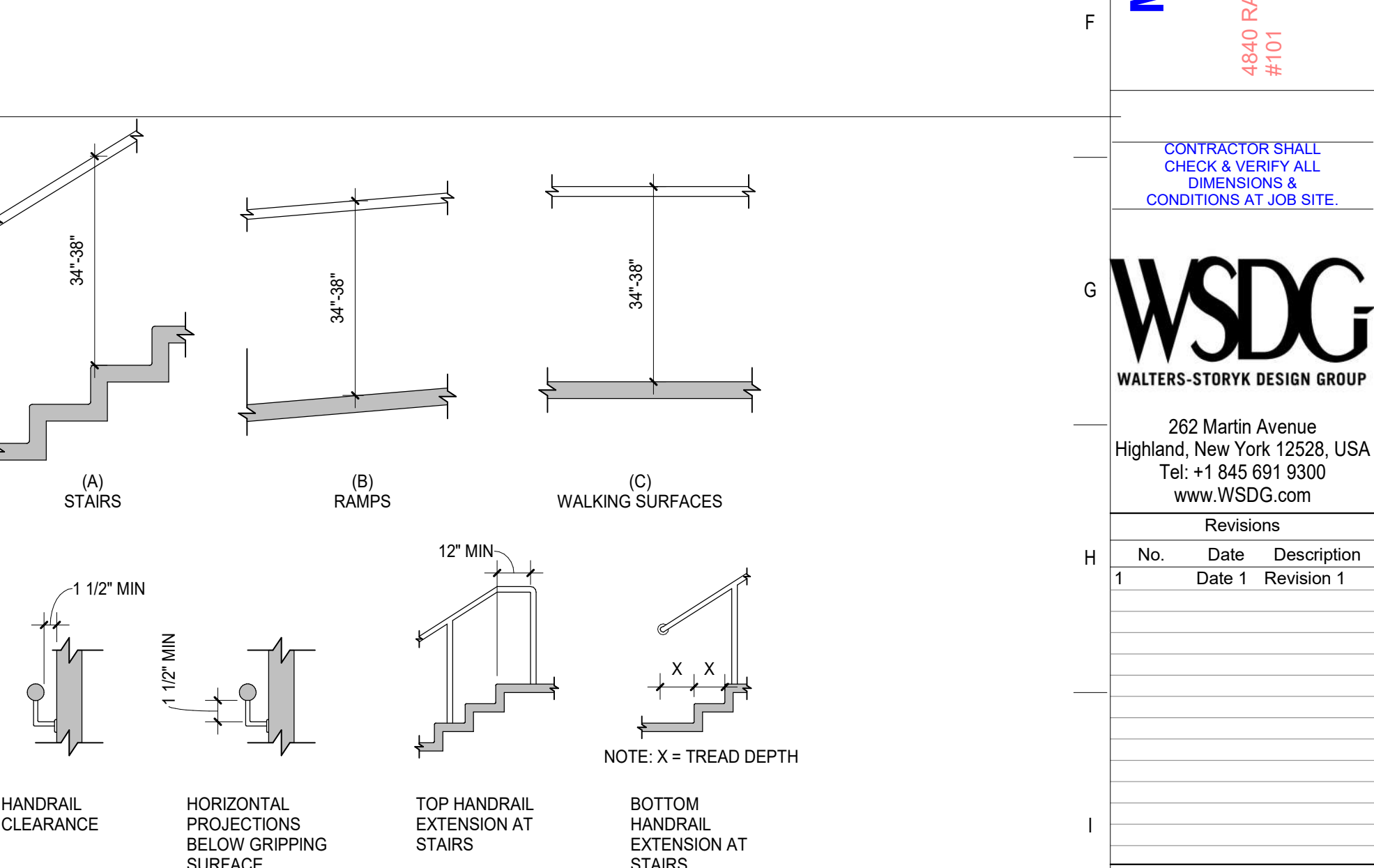
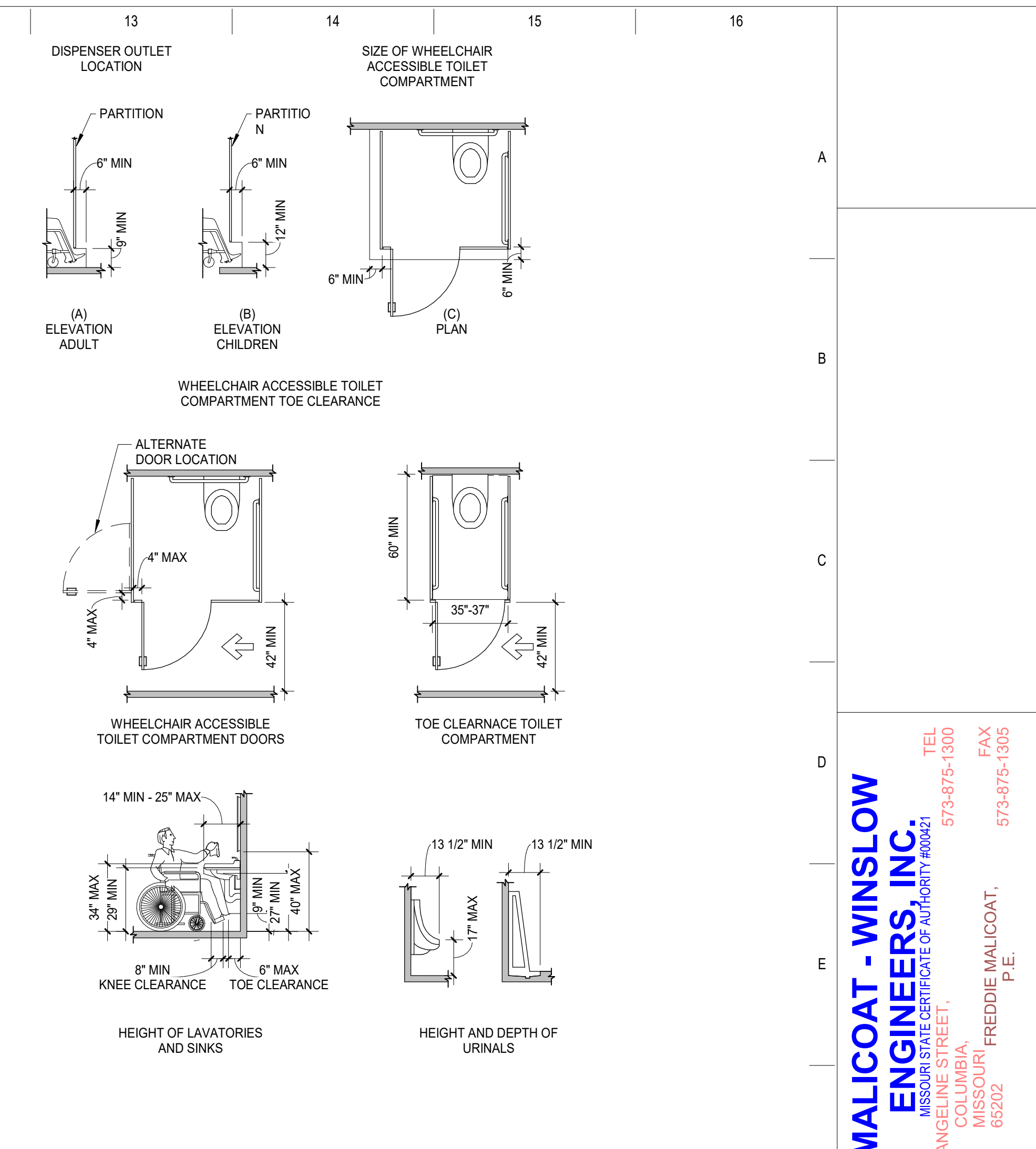
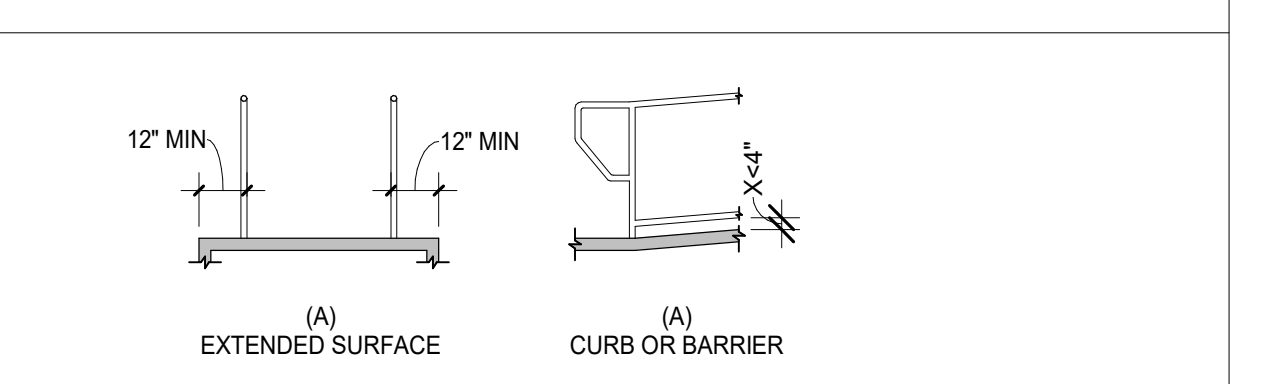
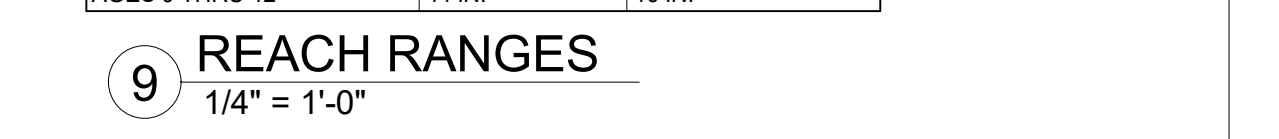
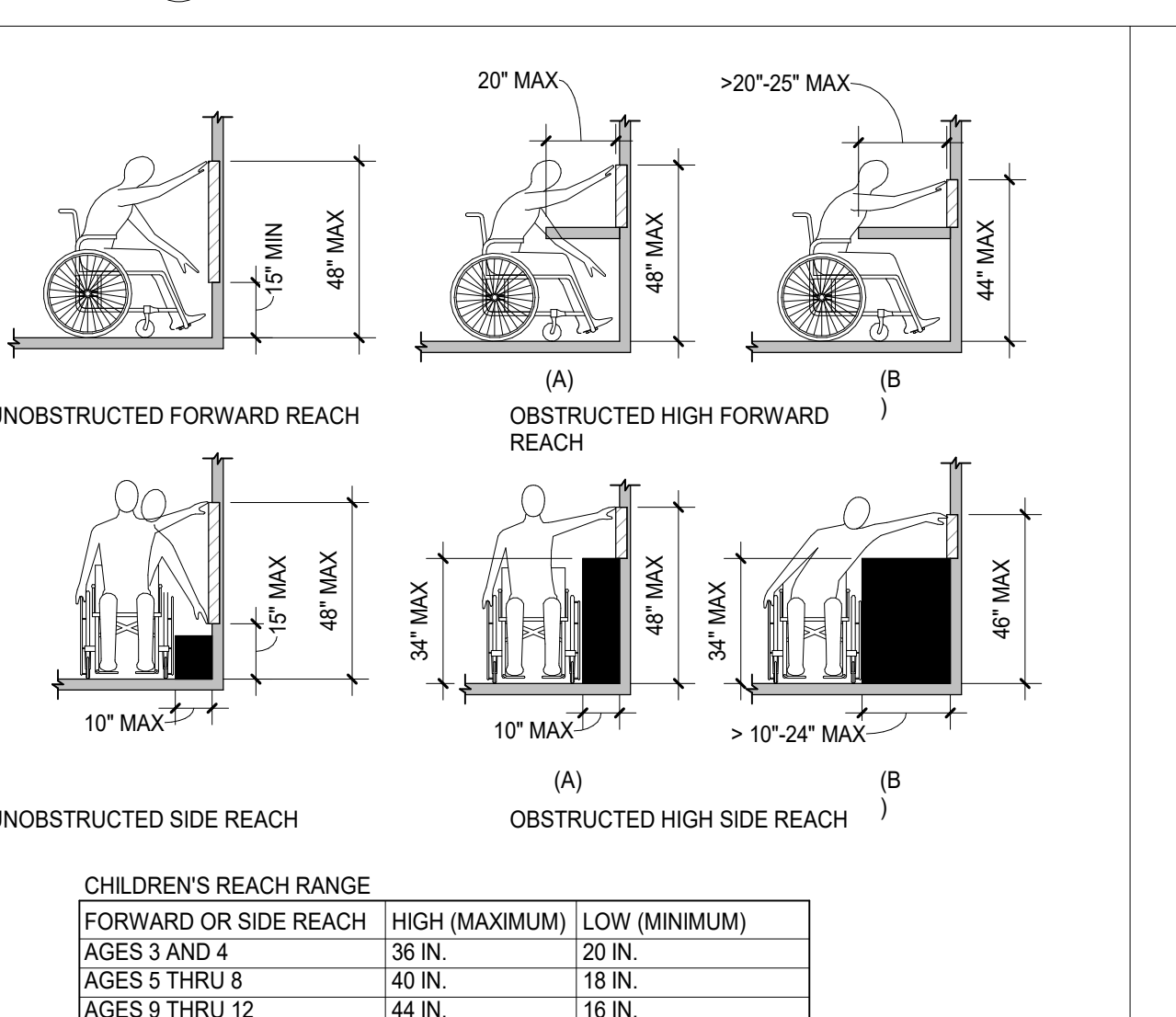
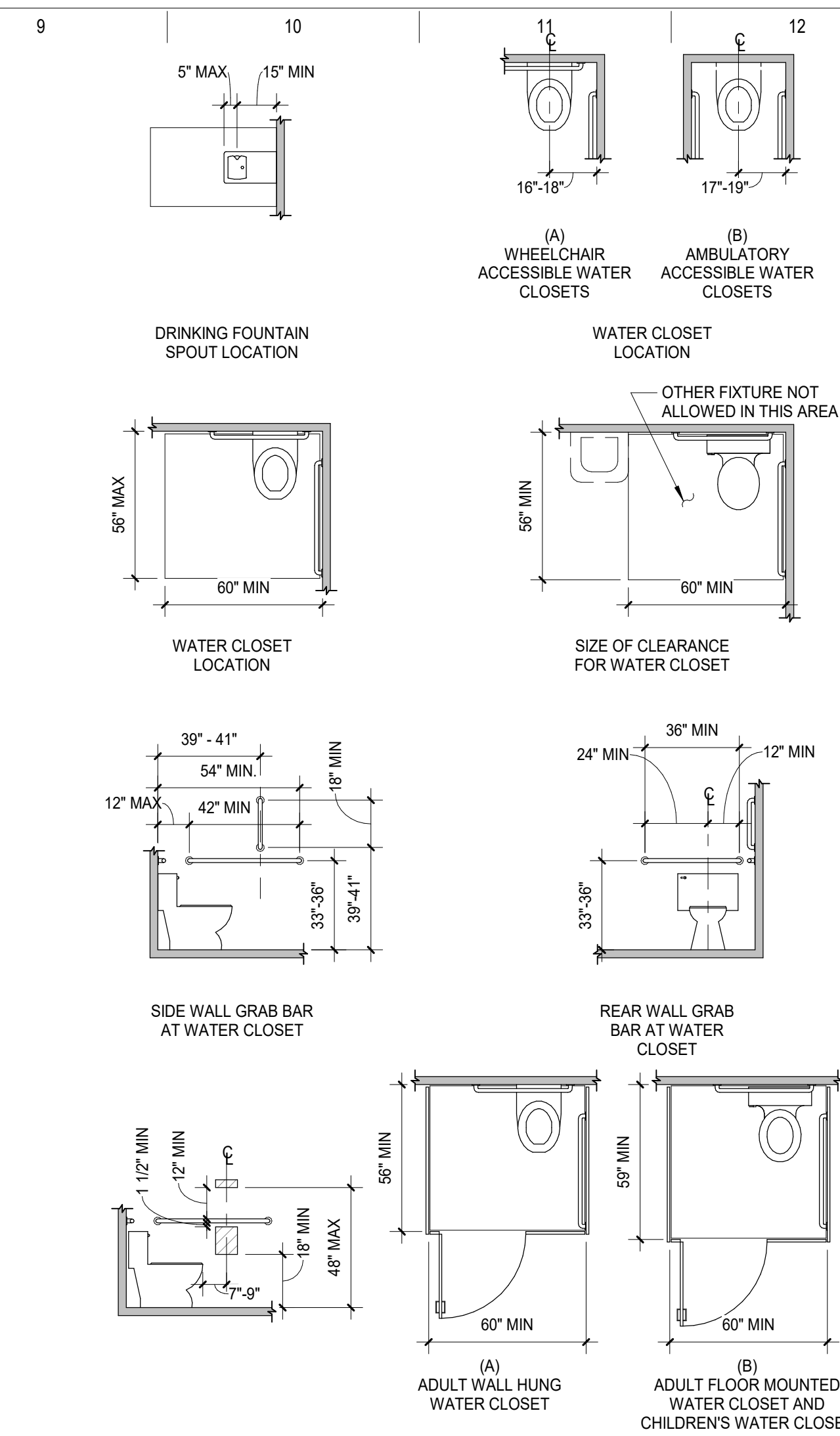
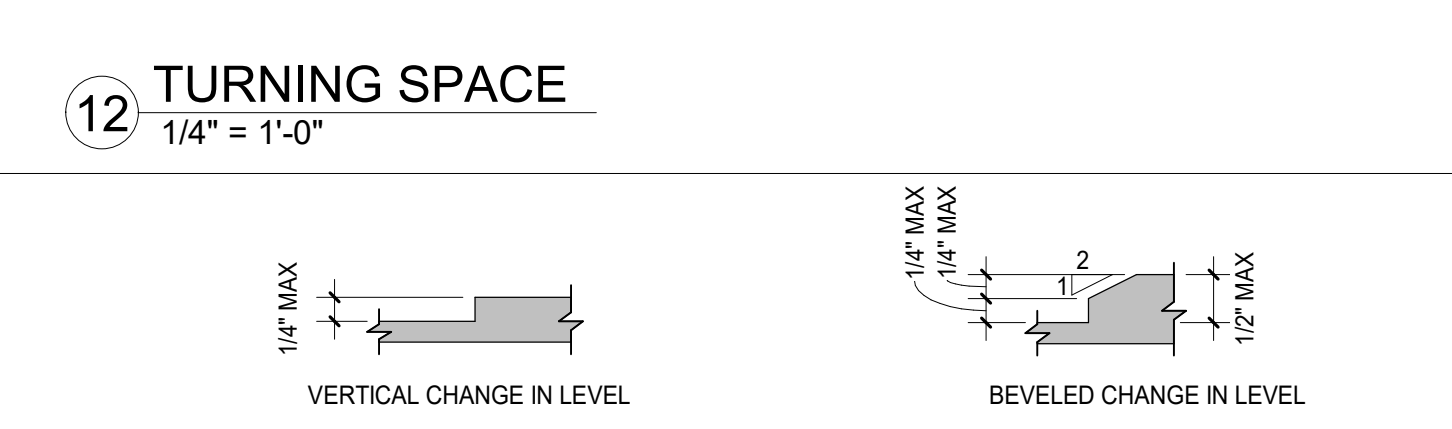
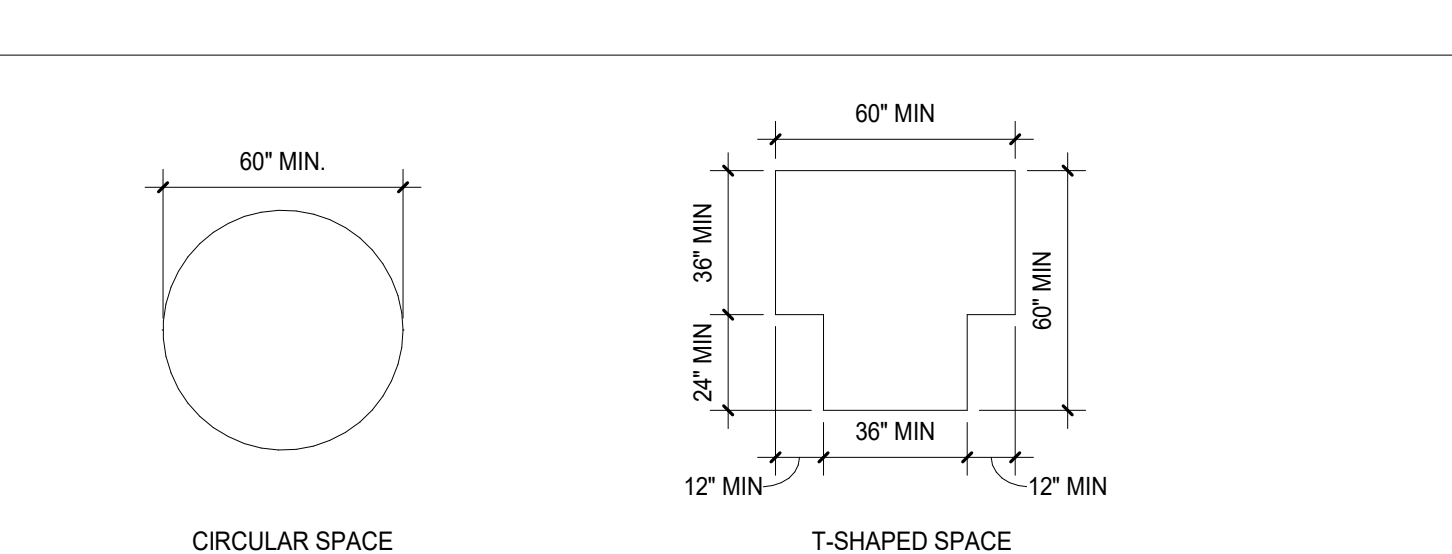
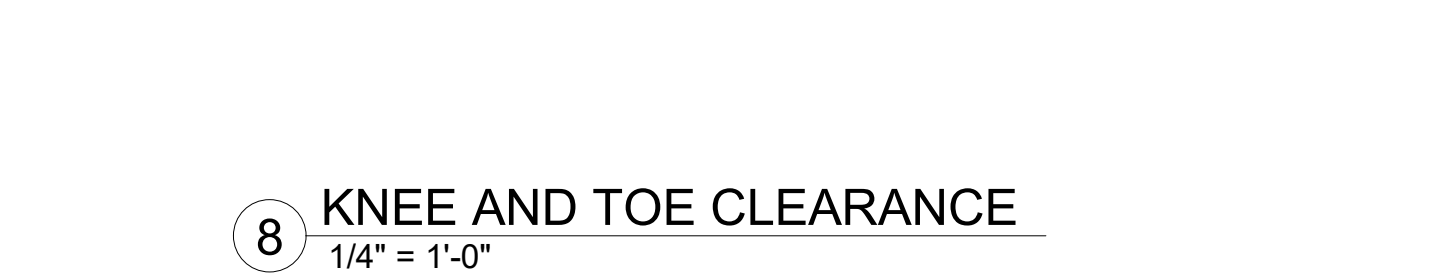
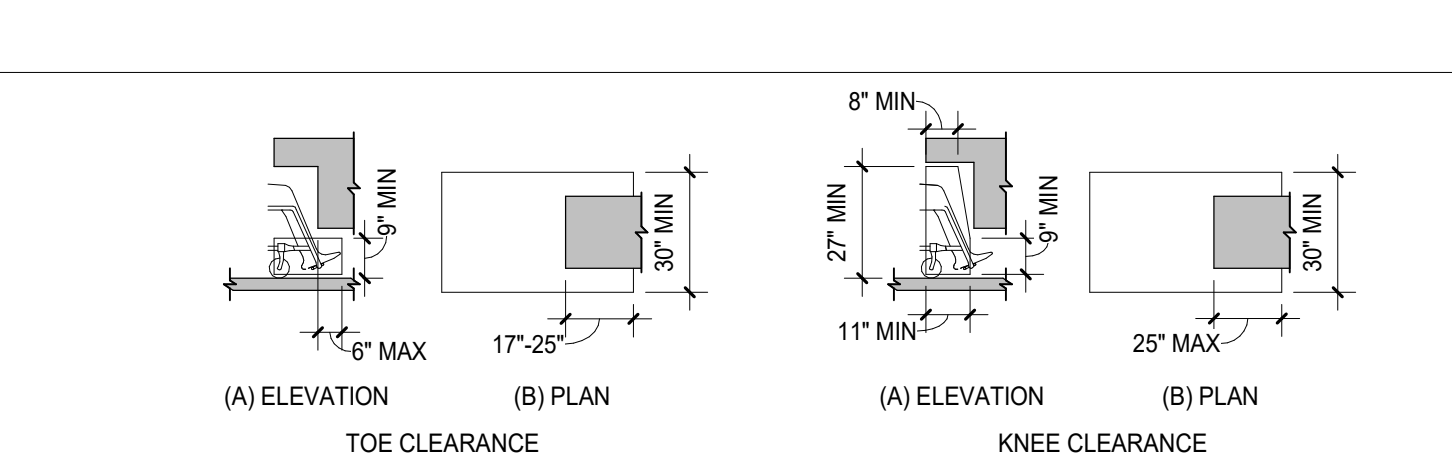
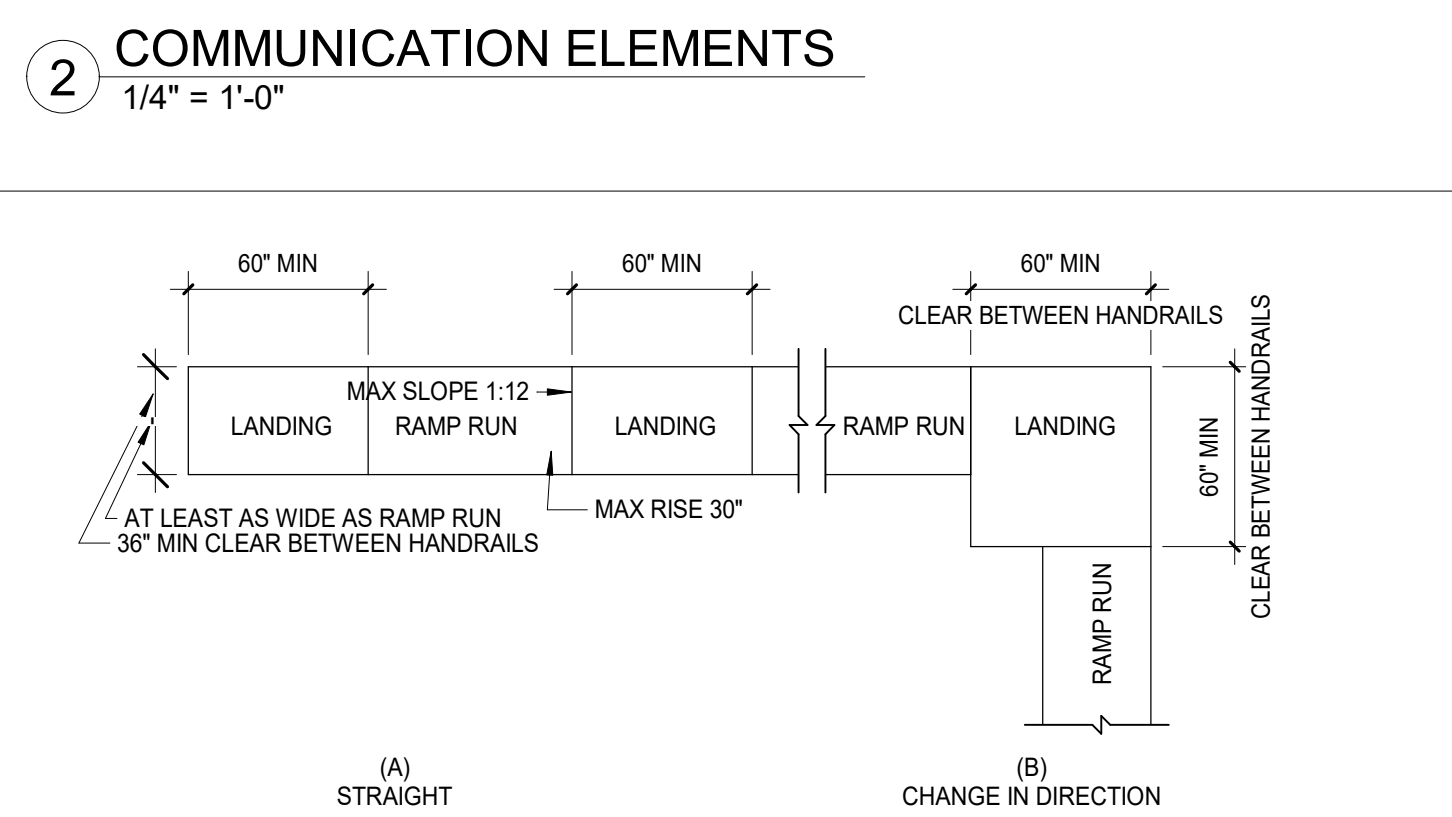
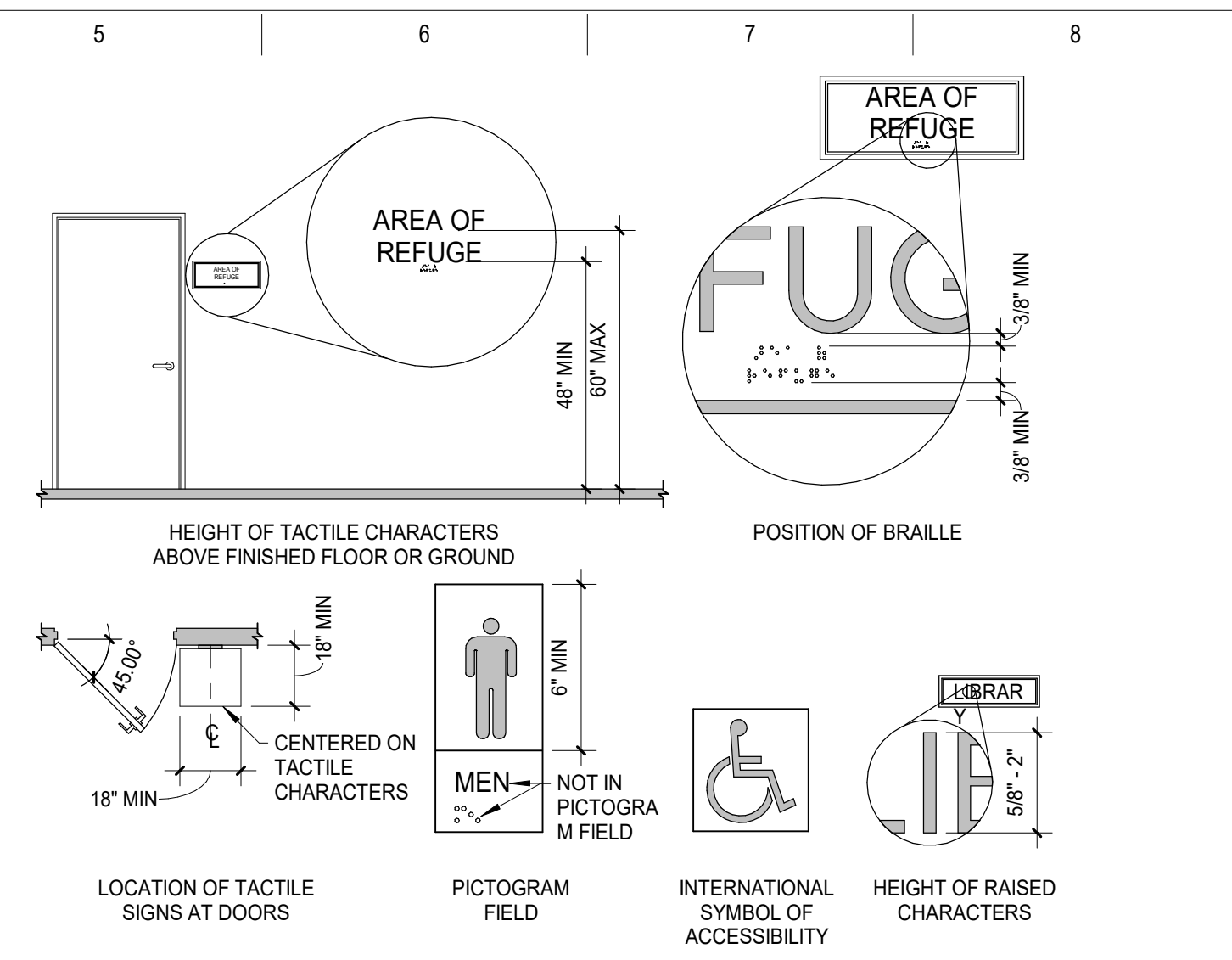
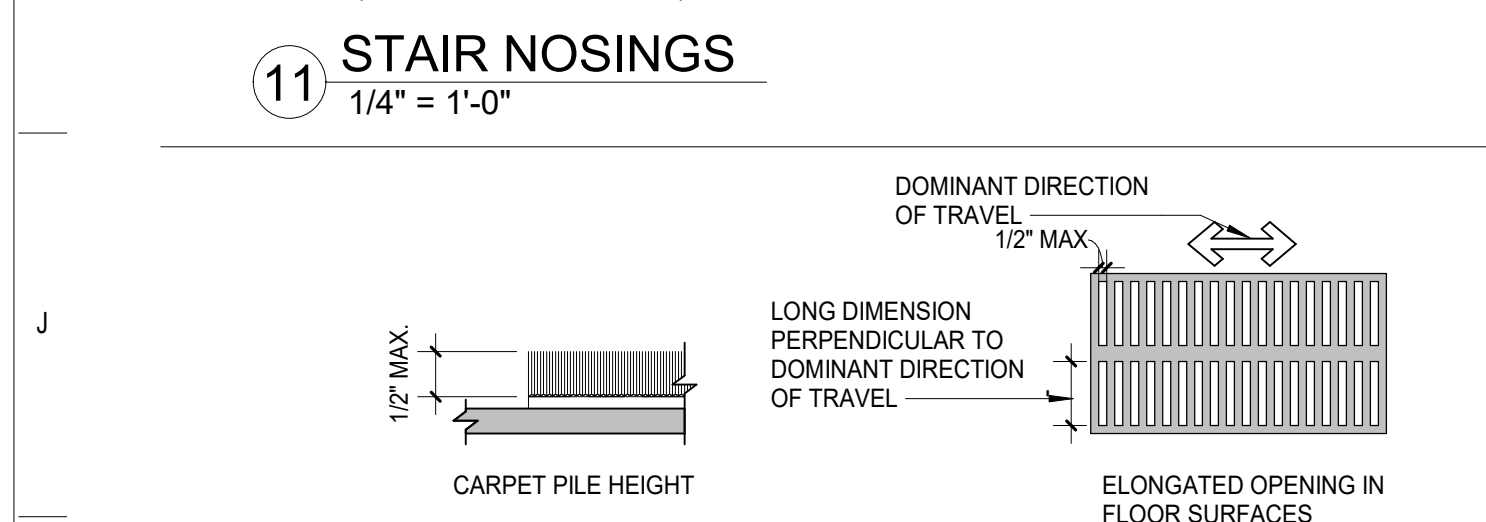
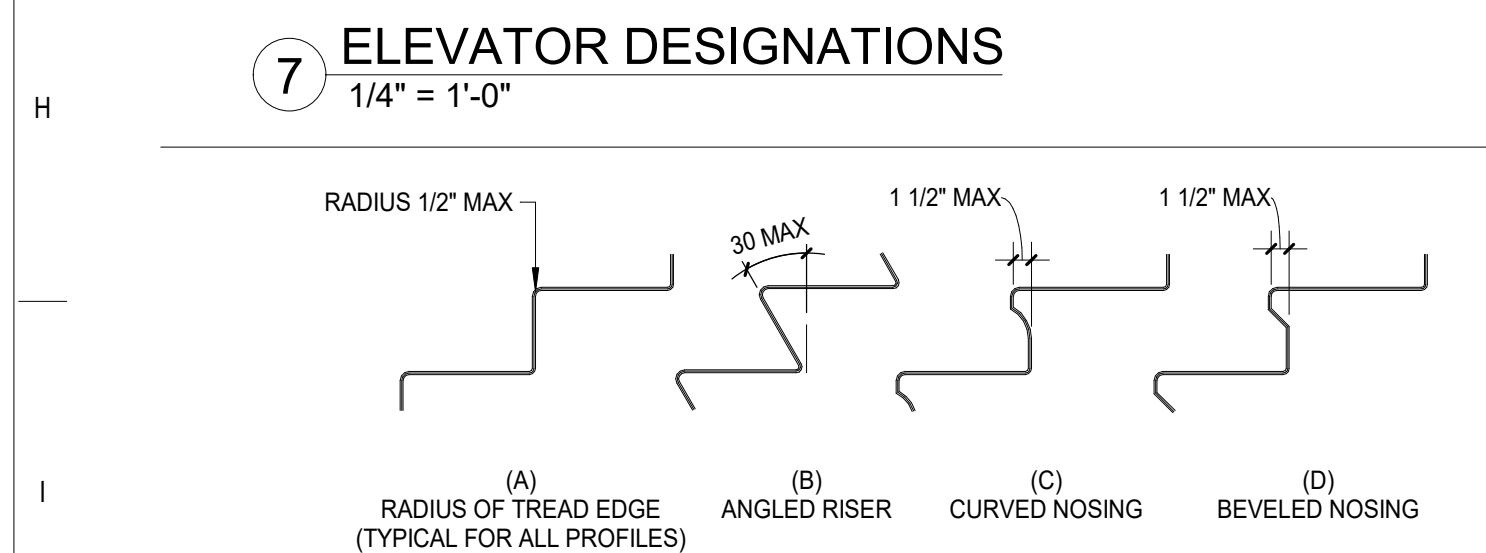
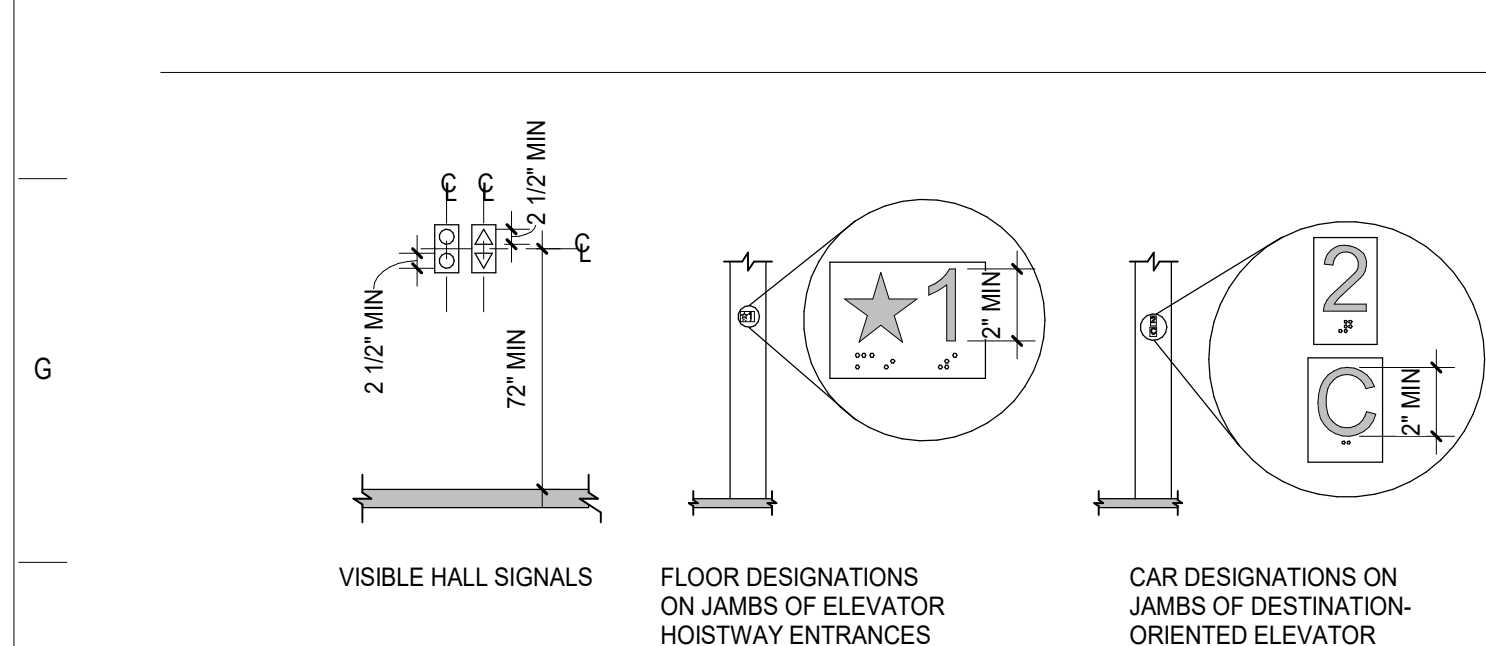
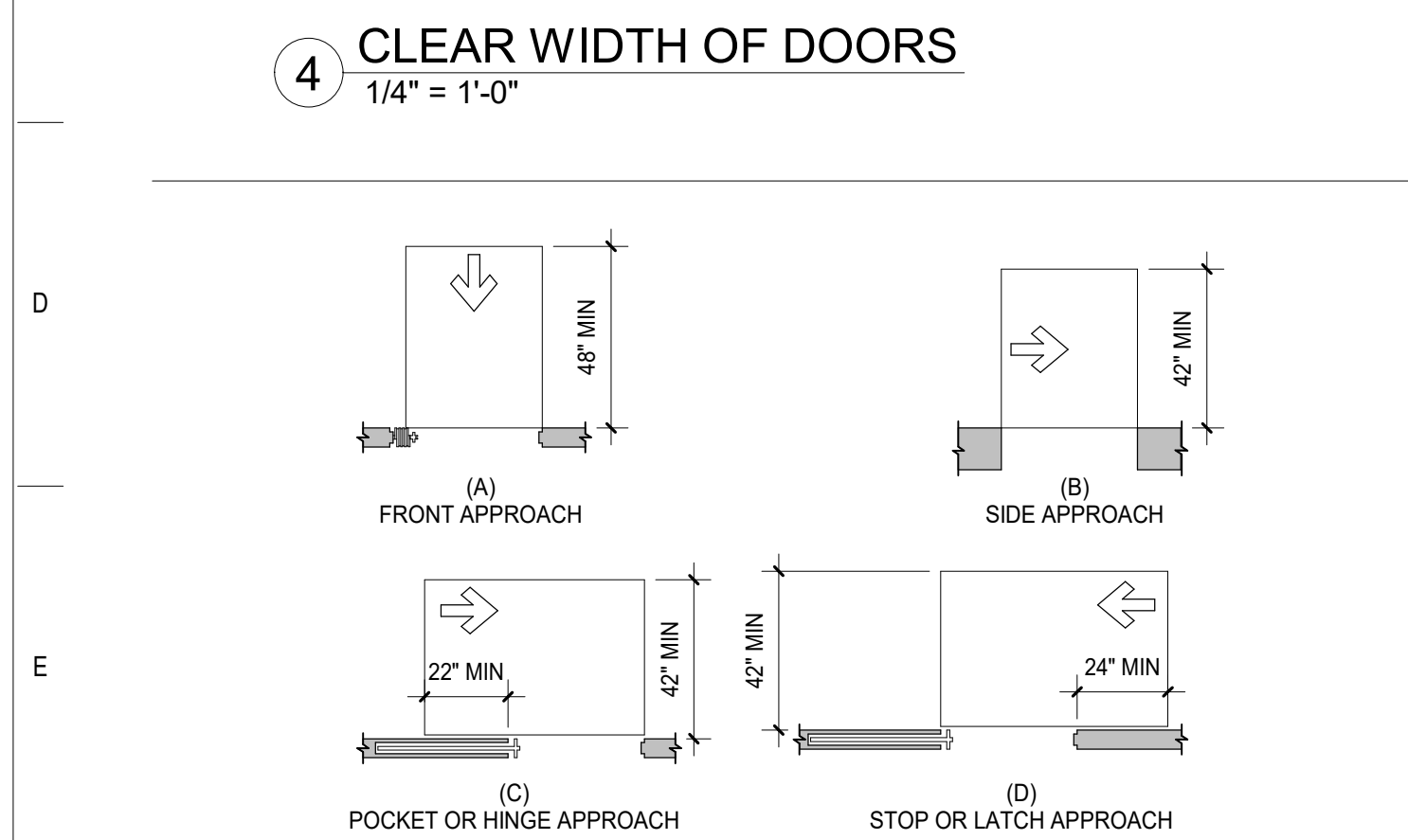
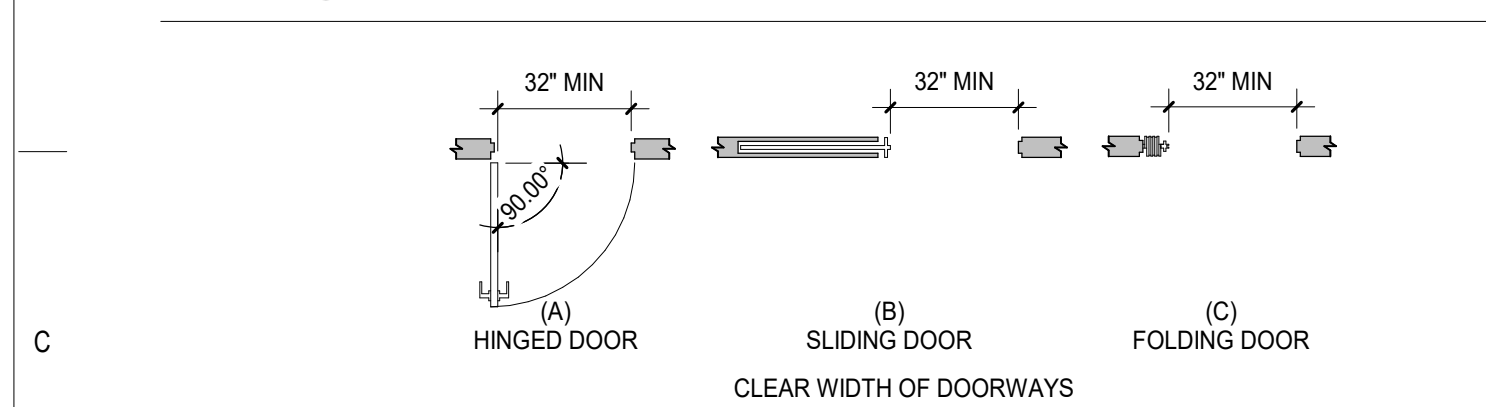
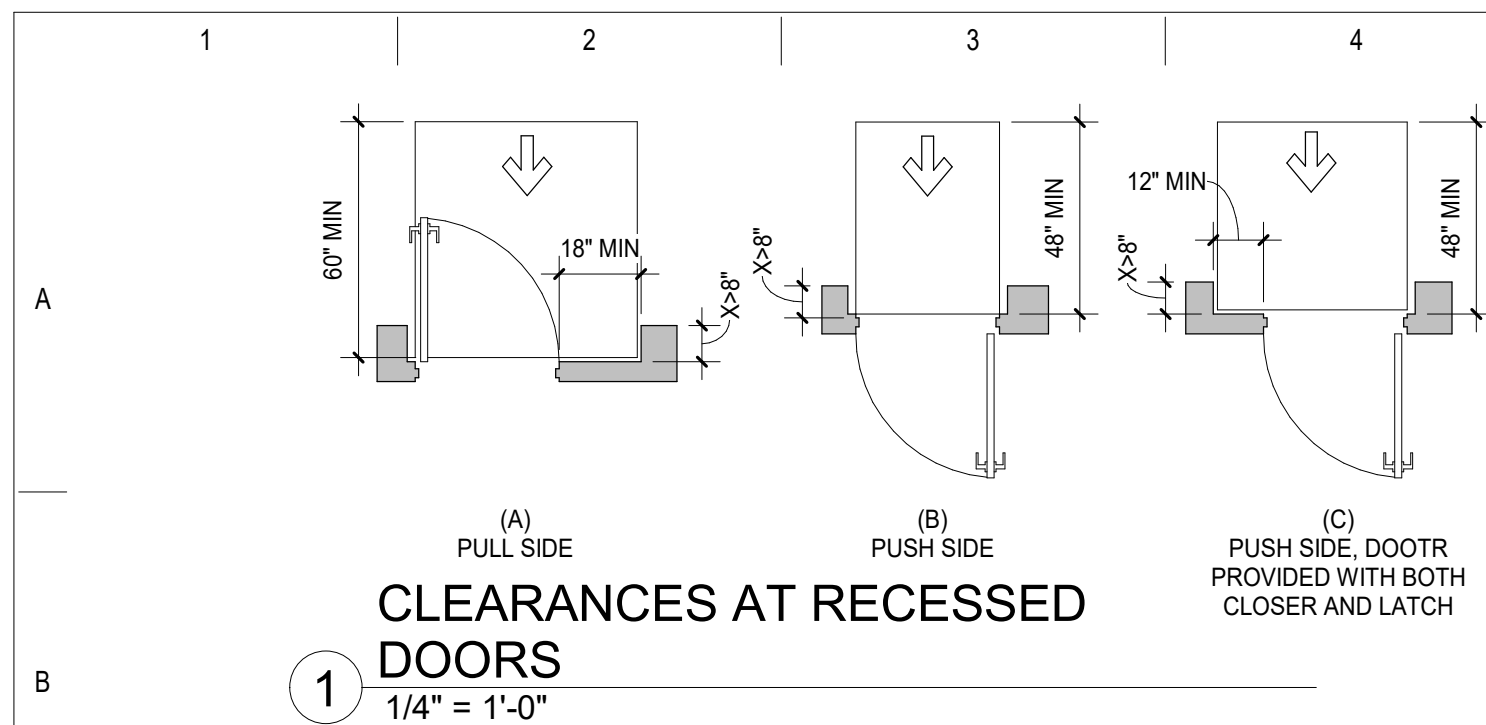


3 DOORS & GATES IN A SERIES



4 SWING DOOR
1/4" = 1'-0"





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ENGINEERS, INC.
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63202
TEL 573-875-1500
FAX 573-875-1505
P.E. FREDDIE MALICOAT.

CONTRACTOR SHALL
CHECK & VERIFY ALL
DIMENSIONS &
CONDITIONS AT JOB SITE.

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		Revisions	
	No.	Date	Description
1		Date 1	Revision 1

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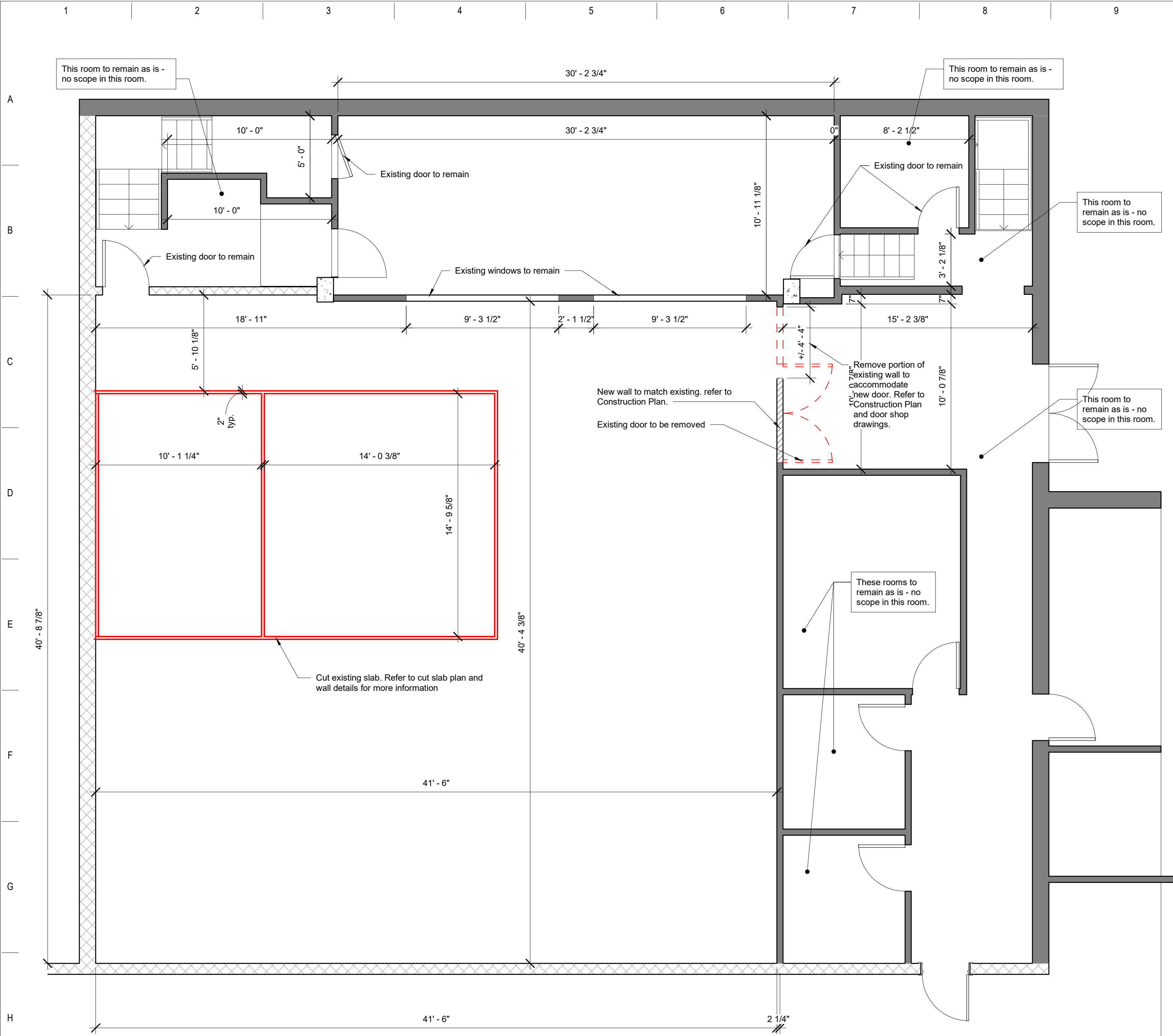
Elliff Hall Studio
Renovation

J
Lincoln University
709 E Dunklin Street
Jefferson City, MO 65101

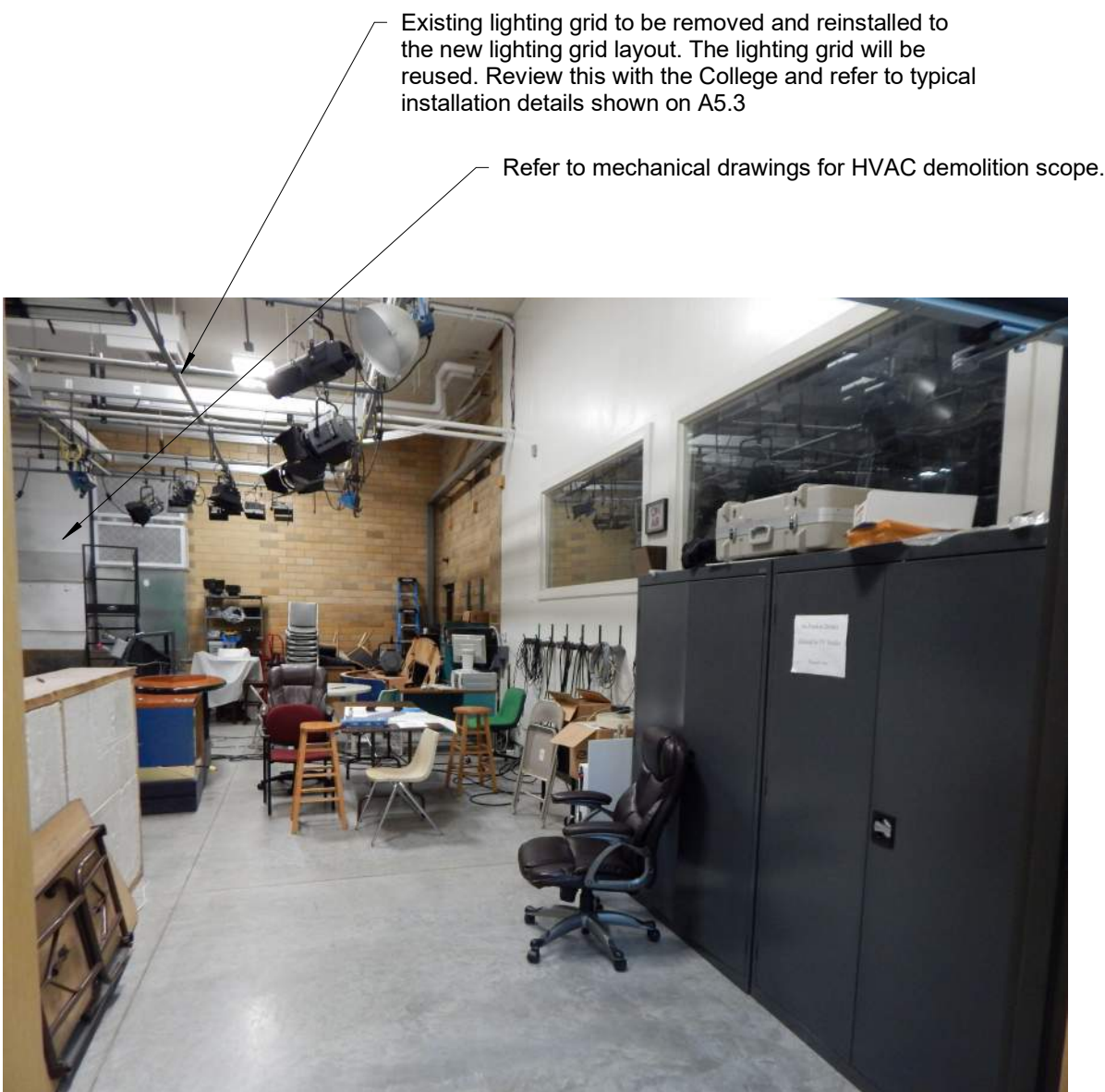
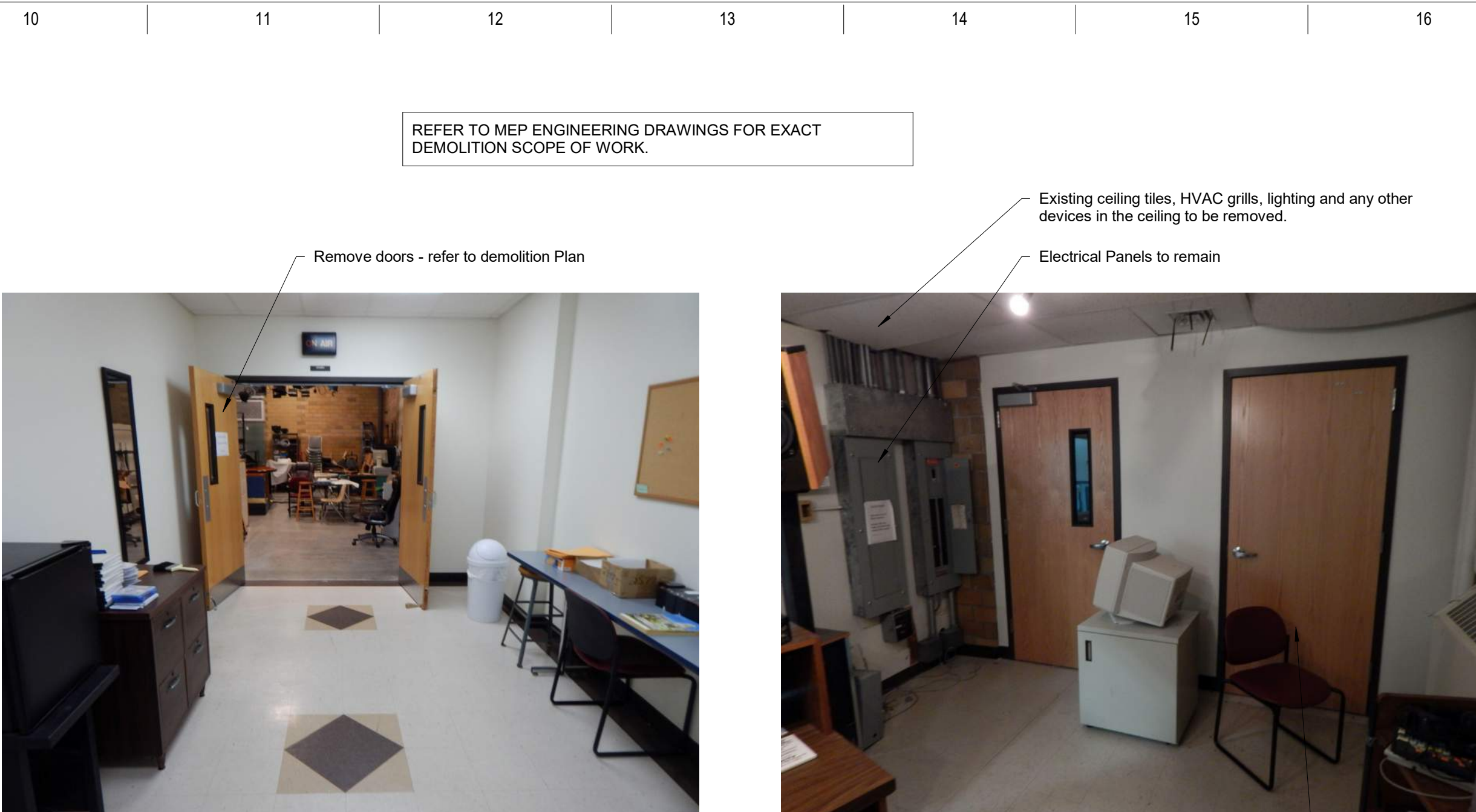
Date:	May 5, 2023
Scale:	1/4" = 1'-0"
Drawn By:	RL

ADA / MAAB
Details

A0.6



1 Demolition Plan
1/4" = 1'-0"



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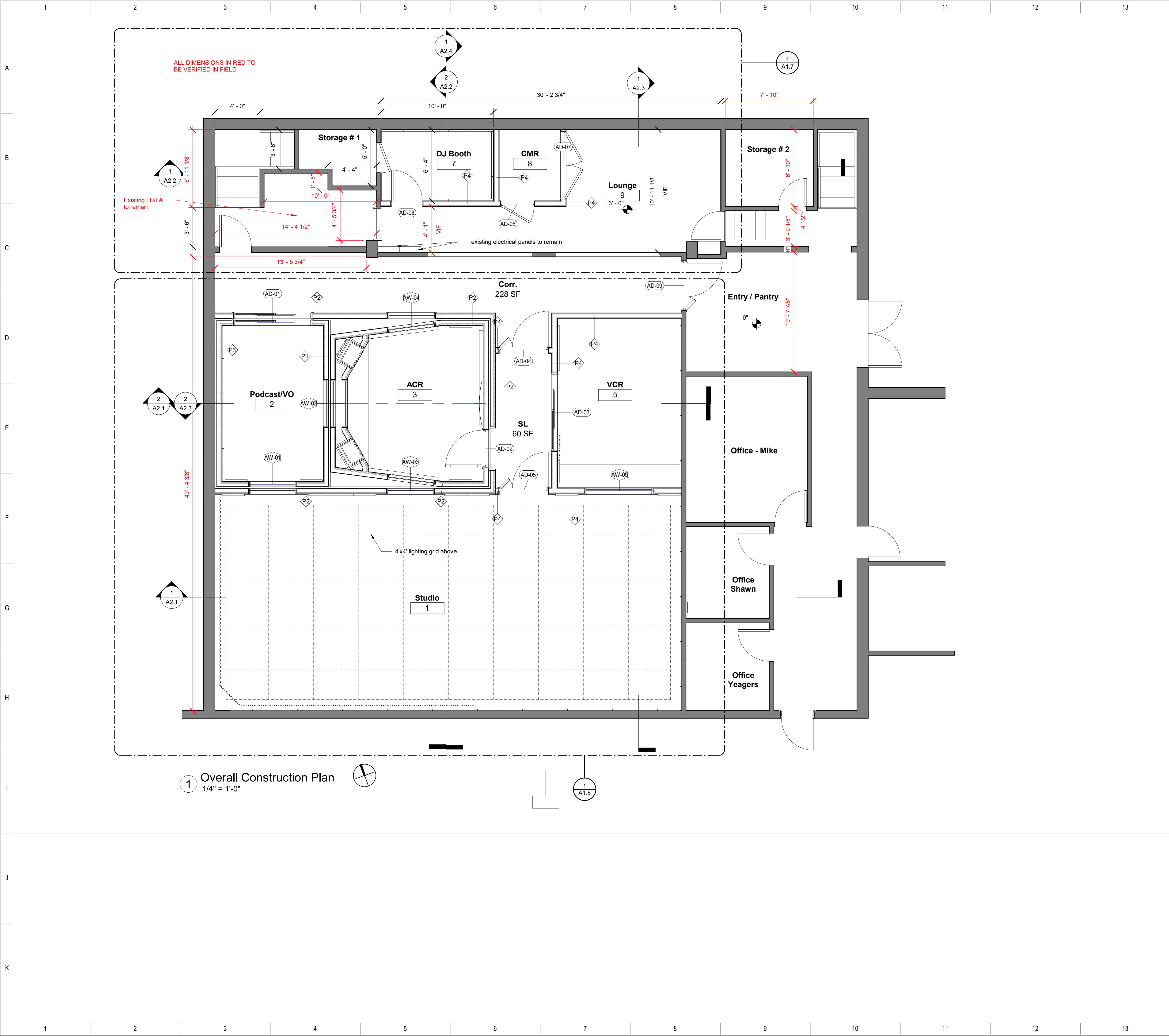
Revisions		
No.	Date	Description

Elliff Hall Studio Renovation

Lincoln University
709 E Dunklin Street
Jefferson City, MO 65101

Date: May 5, 2023
Scale: 1/4" = 1'-0"
Drawn By: JAM

Demolition Scope



Construction Plan Legend

- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION

Construction Plan Notes

- GC TO VERIFY EXISTING CONDITIONS IN FIELD AND REPORT DISCREPANCIES TO ARCHITECT IMMEDIATELY.
- CONTROL ROOM IS SYMMETRICAL AROUND CENTERLINE.
- ALL PENETRATIONS IN ACOUSTIC BOUNDARIES DETAILED AS PER SHEET A5.1 WHERE APPLICABLE.
- ANY DOORS THAT ARE NOT LABELED ARE EITHER EXISTING DOORS TO REMAIN, OR ARE OUTSIDE WSDG'S SCOPE.
- ALL DIMENSIONS SHOWN TO FACE OF STUD.
- CENTERLINES OF COLUMNS ARE USED TO LOCATE CONTROL POINTS FOR CONTROL ROOM CENTERLINE AND OTHER DIMENSIONS. GO TO VERIFY THESE IN FIELD AND NOTIFY ARCHITECT IMMEDIATELY IF THERE ARE ANY DISCREPANCY OR QUESTIONS.
- SEE PARTITION TYPE DETAILS FOR MORE INFORMATION.
- CONTRACTOR SHALL NOT SCALE DRAWINGS.
- SEE COVERSHEET FOR APPROVED ACOUSTIC MATERIALS LIST.
- G.C. SHALL PATCH ALL EXISTING WALLS AS REQ'D. WHERE ANY WALL/CONSTRUCTION WAS REMOVED DURING DEMOLITION.

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Revisions		
No.	Date	Description

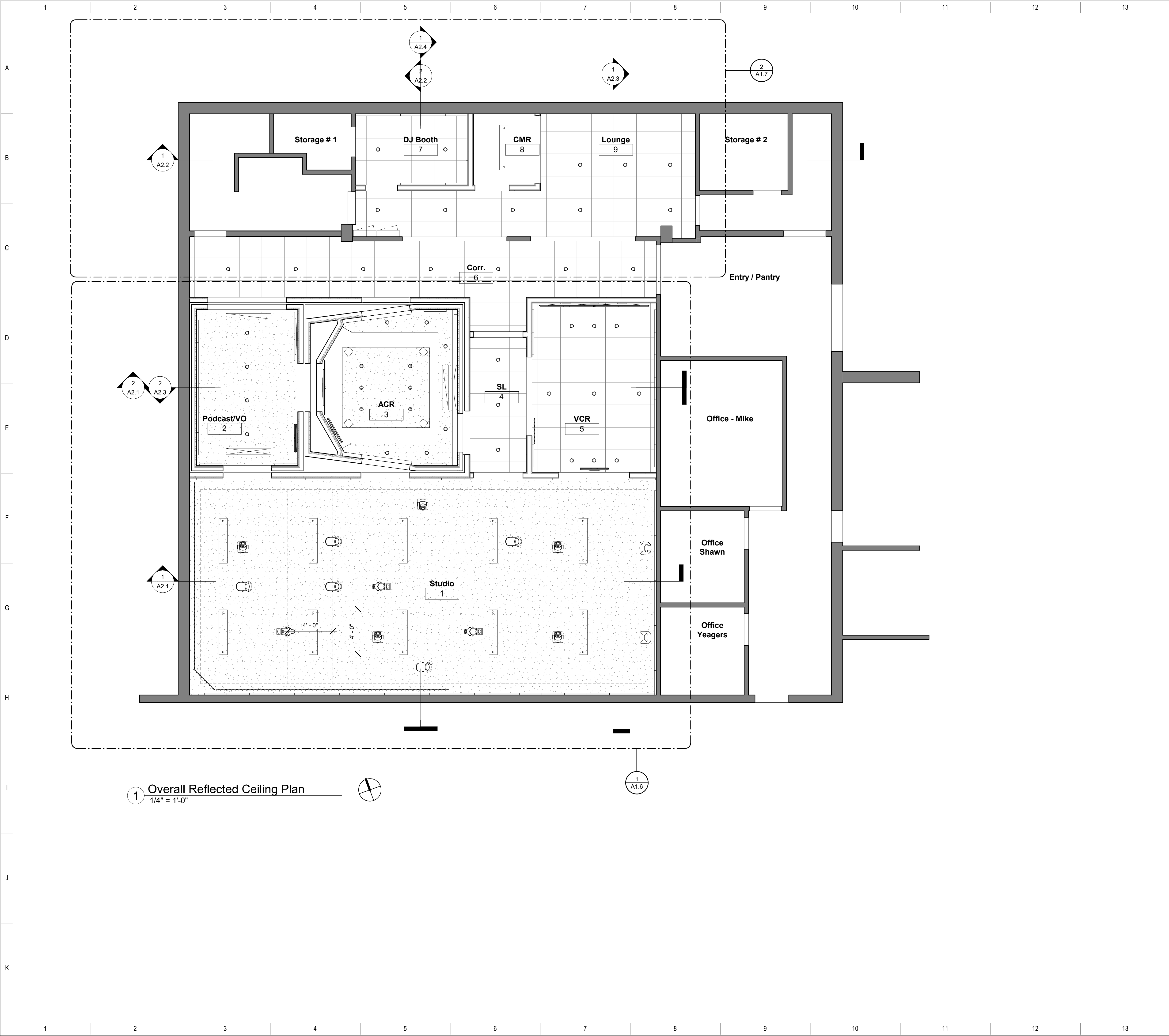
Elliff Hall Studio Renovation

Lincoln University
709 E Dunklin Street
Jefferson City, MO 65101

Date: May 5, 2023
Scale: As indicated
Drawn By: RL

Overall Construction Plan

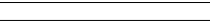
A1.1



Reflected Ceiling Plan Notes

1. SEE MECHANICAL PLANS FOR MORE INFORMATION ON DUCTWORK ROUTING AND GRILL SIZE.
2. SEE DIAGRAMMATIC LIGHTING PLAN FOR MORE INFORMATION REGARDING LIGHTING, CIRCUITING, AND FIXTURES.
3. SEE ENLARGED PLANS FOR MORE INFORMATION.
4. RECESSED LIGHTS IN FABRIC SOFFITS TO BE DETAILED AS PER DETAIL **x on Axx.x**.
5. GC TO VERIFY EXISTING CONDITIONS IN FIELD AND REPORT DISCREPANCIES TO ARCHITECT IMMEDIATELY.
6. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL CAREFULLY REMOVE, PROTECT, AND STORE ALL CONSTRUCTION ELEMENTS TO BE REUSED.
7. DO NOT REMOVE ANY BUILDING CLASS "E" FIRE PROTECTION SIGNALS OR EQUIPMENT UNLESS SPECIFICALLY NOTED. PROTECT AS REQUIRED FOR THE DURATION OF THE PROJECT.
8. LIFE SAFETY SYSTEMS MUST REMAIN INTACT AND PROTECTED FROM FALSE TRIGGERING DURING WORK.
9. PROTECT ALL HVAC SYSTEMS FROM DUST AND DEBRIS - SEAL AIR RETURN OPENINGS DURING CONSTRUCTION.

Reflected Ceiling Plan Legend



SUPPLY AIR GRILLE

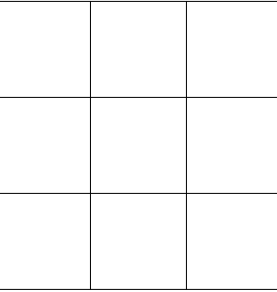
RETURN AIR GRILLE

RECESSED DOWNLIGHT

PENDANT FIXTURES

SEE MECHANICAL DRAWINGS FOR MORE INFORMATION REGARDING HVAC SYSTEMS AND DUCTWORK.

SEE LIGHTING & ELECTRICAL DRAWINGS FOR MORE INFORMATION REGARDING LIGHTING SPECS, DIMMING, ETC.



SUSPENDED CEILING TILE. INSTALL 6" SOUND ATTENUATION BLANKETS ABOVE TILES. SEE DETAIL 13 ON A5.3.

MALICOAT - WINSLOW ENGINEERS, INC.
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Revisions		
No.	Date	Description

Elliff Hall Studio Renovation

Lincoln University
709 E Dunklin Street
Jefferson City, MO 65101

Date:	May 5, 2023
Scale:	As indicated
Drawn By:	RL

Overall Reflected Ceiling Plan



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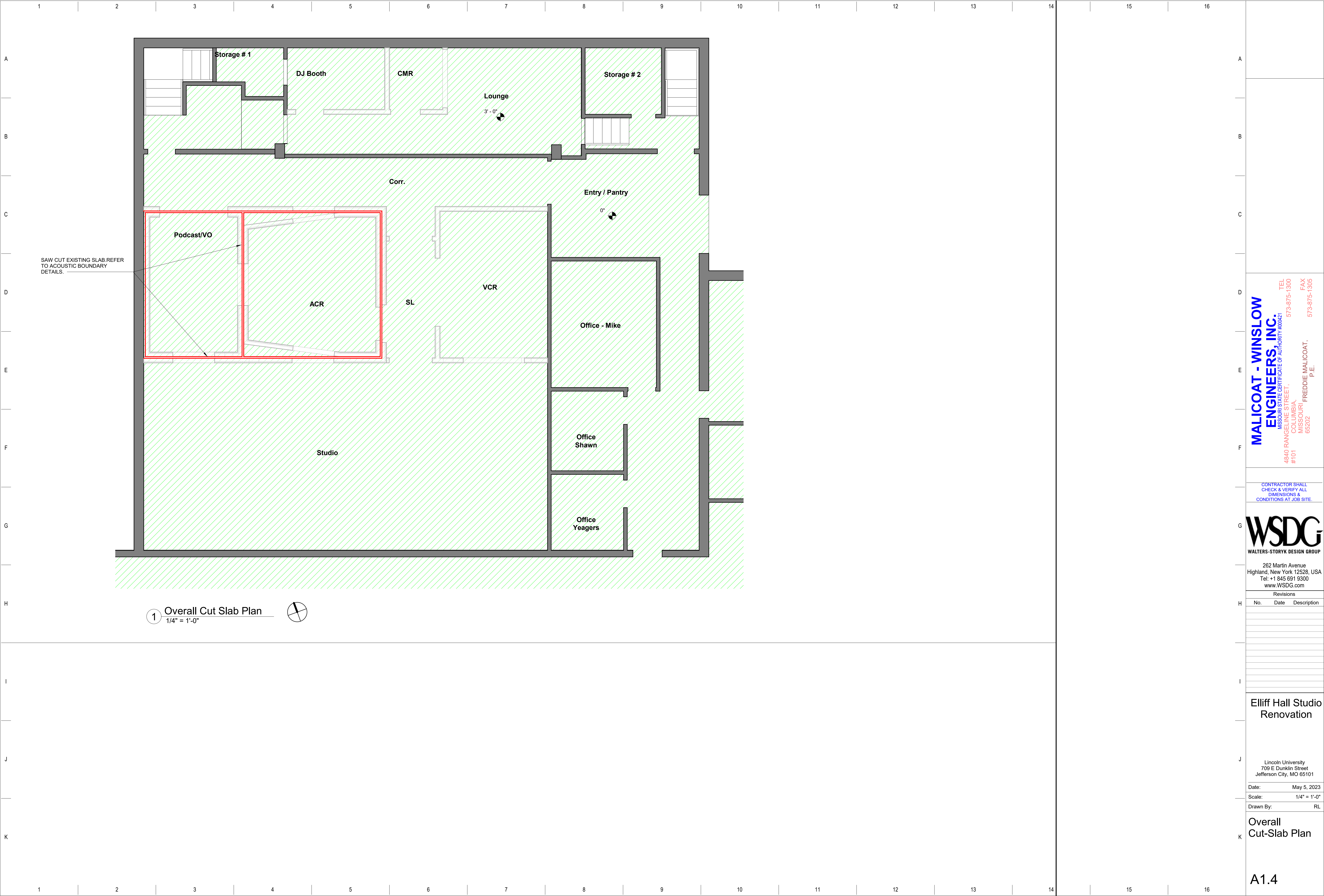
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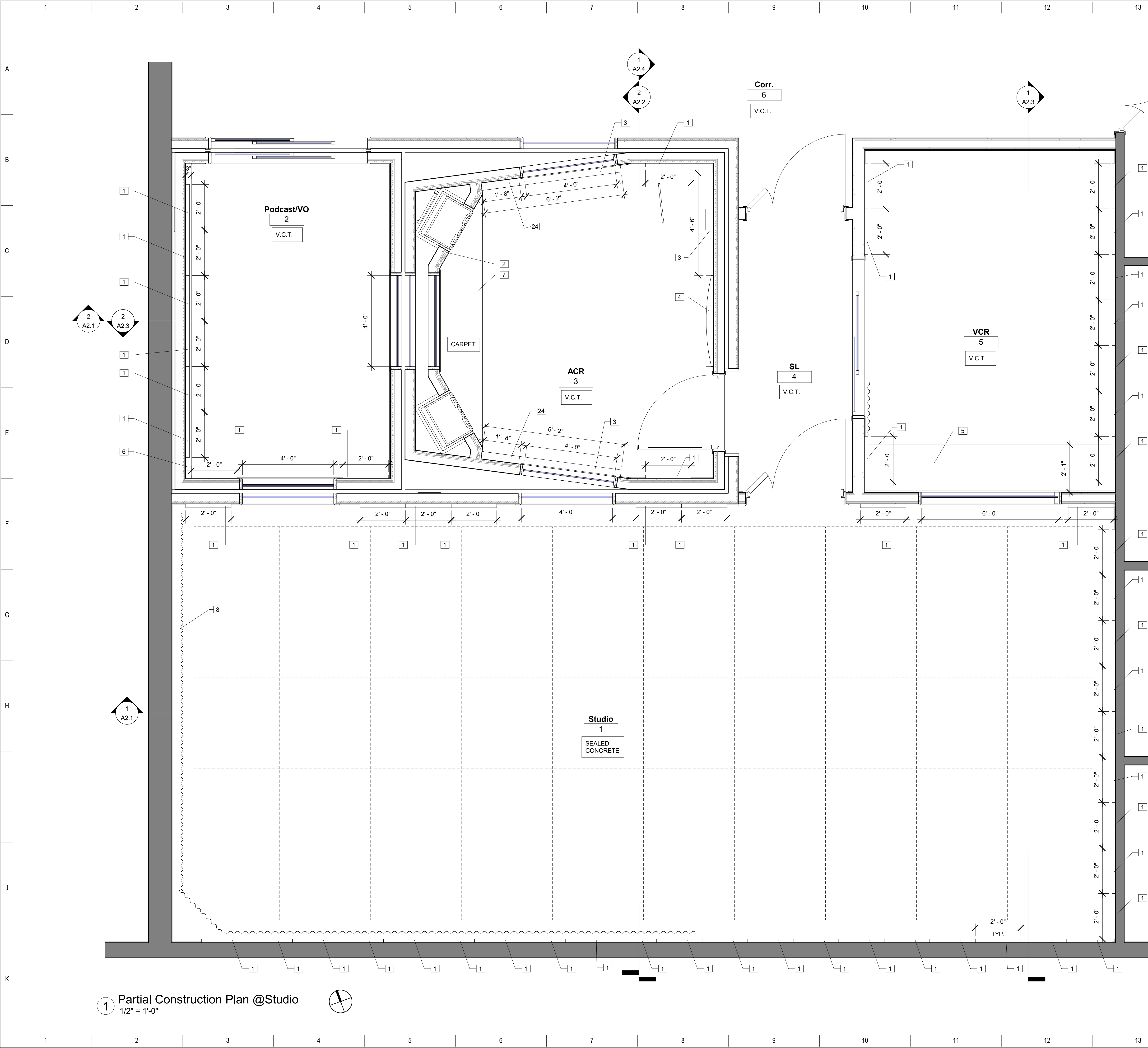
Scale: 1/4" = 1'-0"

Drawn By: RL

Overall Furniture Plan

A1.3





Construction Plan Legend

- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION

Construction Plan Notes

- GC TO VERIFY EXISTING CONDITIONS IN FIELD AND REPORT DISCREPANCIES TO ARCHITECT IMMEDIATELY.
- CONTROL ROOM IS SYMMETRICAL AROUND CENTERLINE.
- ALL PENETRATIONS IN ACOUSTIC BOUNDARIES DETAILED AS PER SHEET **A5.1** WHERE APPLICABLE.
- ANY DOORS THAT ARE NOT LABELED ARE EITHER EXISTING DOORS TO REMAIN, OR ARE OUTSIDE WSDG'S SCOPE.
- ALL DIMENSIONS SHOWN TO FACE OF STUD.
- CENTERLINES OF COLUMNS ARE USED TO LOCATE CONTROL ROOM CENTERLINE AND OTHER DIMENSIONS. GC TO VERIFY THESE IN FIELD AND NOTIFY ARCHITECT IMMEDIATELY IF THERE ARE ANY DISCREPANCY OR QUESTIONS.
- SEE PARTITION TYPE DETAILS FOR MORE INFORMATION.
- CONTRACTOR SHALL NOT SCALE DRAWINGS.
- SEE COVERSHEET FOR APPROVED ACOUSTIC MATERIALS LIST.
- G.C. SHALL PATCH ALL EXISTING WALLS AS REQ'D. WHERE ANY WALL/CONSTRUCTION WAS REMOVED DURING DEMOLITION.

Keynotes

- 2" PREFABRICATED FABRIC PANEL. SEE DETAIL 9 ON A5.1.TOP TO ALIGN WITH TOP OF WINDOW FRAMES.
- STRETCHED FABRIC SPEAKER WALL - SEE DETAILS 6 THRU 11 ON A5.2 FOR MORE INFORMATION
- 4" PREFABRICATED B.A.D. PANEL. SEE DETAIL 9 ON A5.1.TOP TO ALIGN WITH TOP OF WINDOW FRAMES.
- 4" PREFABRICATED B.A.D. ARC PANEL SEE DETAIL 9 ON A5.1.TOP TO ALIGN WITH TOP OF WINDOW FRAMES. COUNTERTOP WORK SURFACE. SEE DETAIL 11 ON A5.3 FOR MORE INFORMATION.
- CHAIR RAIL SEE DETAIL 11 ON A5.3 FOR MORE INFORMATION.
- BUILT-UP PLATFORM. SEE DETAILS 1 THRU 3 ON A5.2 AND INFRASTRUCTURE DRAWINGS FOR MORE INFORMATION.
- CYC CURTAIN. SEE DETAIL 12 ON A5.3 FOR MORE INFORMATION.
- 4" PREFABRICATED FABRIC PANEL. SEE DETAIL 9 ON A5.1.TOP TO ALIGN WITH TOP OF WINDOW FRAMES.

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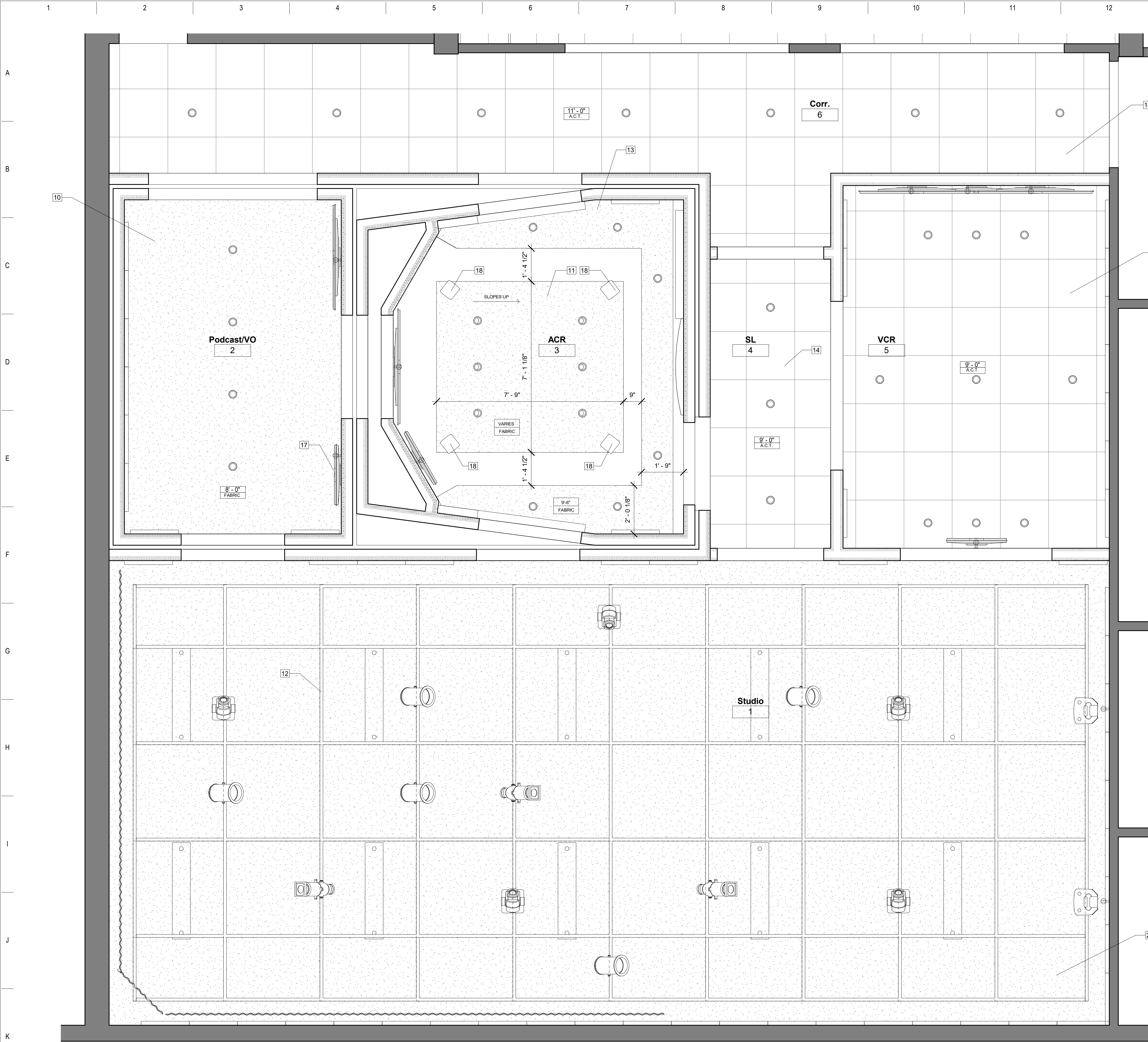
Date: May 5, 2023

Scale: As indicated

Drawn By: RL

Partial Construction Floor Plan @Studio

A1.5

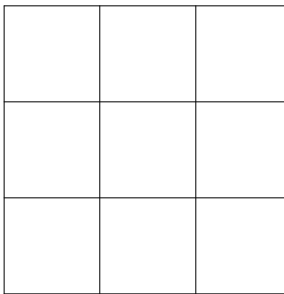
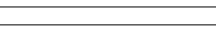
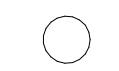
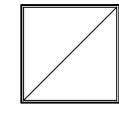
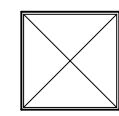


1 Partial Reflected Ceiling Plan @Studio
1/2" = 1'-0"

Reflected Ceiling Plan Notes

1. SEE MECHANICAL PLANS FOR MORE INFORMATION ON DUCTWORK ROUTING AND GRILL SIZE.
2. SEE DIAGRAMMATIC LIGHTING PLAN FOR MORE INFORMATION REGARDING LIGHTING, CIRCUITING, AND FIXTURES.
3. SEE ENLARGED PLANS FOR MORE INFORMATION.
4. RECESSED LIGHTS IN FABRIC SOFFITS TO BE DETAILED AS PER DETAIL **x** ON **Ax.x**.
5. GC TO VERIFY EXISTING CONDITIONS IN FIELD AND REPORT DISCREPANCIES TO ARCHITECT IMMEDIATELY.
6. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL CAREFULLY REMOVE, PROTECT, AND STORE ALL CONSTRUCTION ELEMENTS TO BE REUSED.
7. DO NOT REMOVE ANY BUILDING CLASS "E" FIRE PROTECTION SIGNALS OR EQUIPMENT UNLESS SPECIFICALLY NOTED. PROTECT AS REQUIRED FOR THE DURATION OF THE PROJECT.
8. LIFE SAFETY SYSTEMS MUST REMAIN INTACT AND PROTECTED FROM FALSE TRIGGERING DURING WORK.
9. PROTECT ALL HVAC SYSTEMS FROM DUST AND DEBRIS - SEAL AIR RETURN OPENINGS DURING CONSTRUCTION.

Reflected Ceiling Plan Legend



SUPPLY AIR GRILLE

RETURN AIR GRILLE

RECESSED DOWNLIGHT

PENDANT FIXTURES

SUSPENDED CEILING TILE. INSTALL 6" SOUND ATTENUATION BLANKETS ABOVE TILES. SEE DETAIL 13 ON A5.3.

SEE MECHANICAL DRAWINGS FOR MORE INFORMATION REGARDING HVAC SYSTEMS AND DUCTWORK.

SEE LIGHTING & ELECTRICAL DRAWINGS FOR MORE INFORMATION REGARDING LIGHTING SPECS, DIMMING, ETC.

Keynotes

- | | |
|----|---|
| 10 | PODCAST FABRIC CEILING - SEE DETAIL 10 ON A5.3 FOR MORE INFORMATION |
| 11 | ACR FABRIC CEILING TREATMENT SUSPENDED FROM CEILING VIA THREADED ROD - SEE DETAIL 4 ON A5.2 FOR MORE INFORMATION |
| 12 | LIGHTING GRID. SEE DETAILS ON A5.3 |
| 13 | ACR FABRIC SOFFIT - SEE DETAILS 1 AND 2 ON A5.3 FOR MORE INFORMATION |
| 14 | ACOUSTIC CEILING TILES. SEE DETAIL 13 ON A5.3 FOR MORE INFORMATION. |
| 17 | LCD TELEVISION - OWNER PROVIDED, AV CONTRACTOR INSTALLED. GC TO PROVIDE ADEQUATE BLOCKING AND POWER/SIGNAL. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. EXACT LOCATION TO BE FIELD-COORDINATED WITH AV INSTALLER. |
| 18 | SURROUND SOUND SPEAKERS SUSPENDED FROM CEILING (SPEAKER BY OWNER - G.C. TO MOUNT). SEE DETAIL 14 ON A5.3 FOR MORE INFORMATION |
| 22 | (1) LAYER OF 2" RIGID INSULATION (BLACK - DUCTLINER WITH NO TEXT VISIBLE. CONSIDER ACOUSTABOARD 225 BY CERTAINTEEED) ATTACH TO EXISTING CEILING. |

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CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS & CONDITIONS AT JOB SITE.

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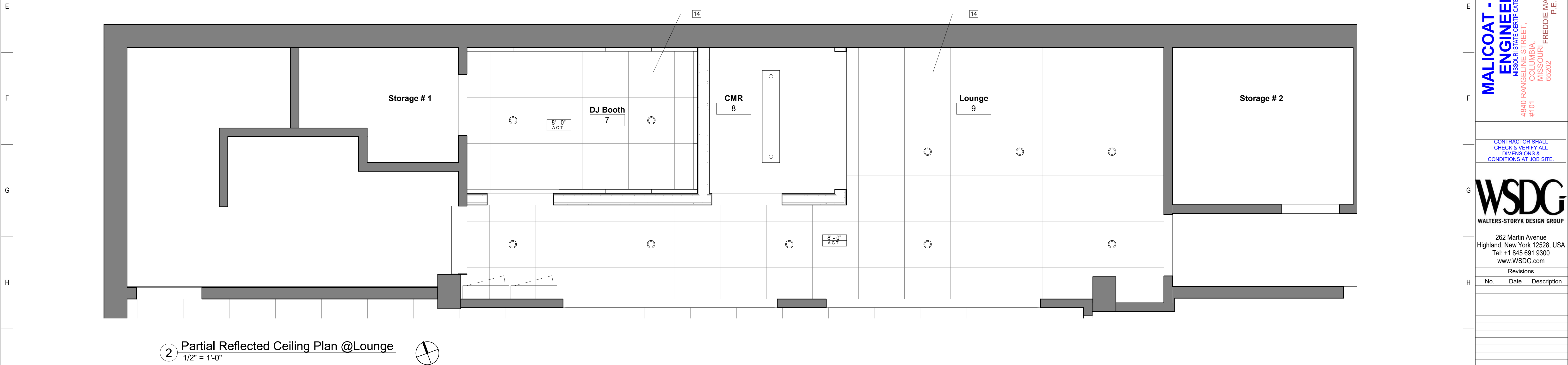
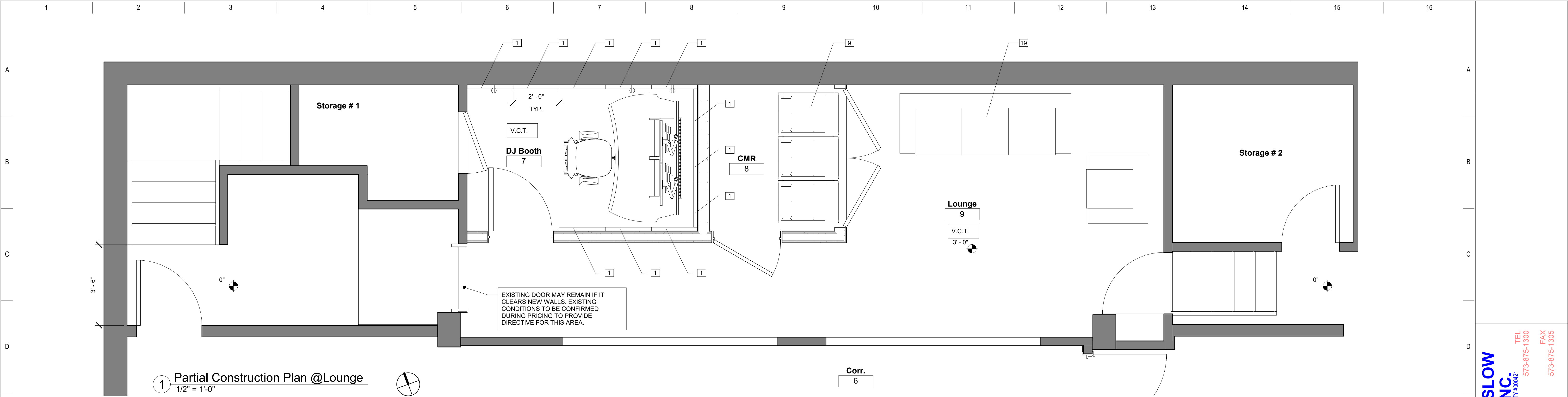
Revisions		
No.	Date	Description

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Renovation

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Jefferson City, MO 65101

Date: May 5, 2023
Scale: As indicated
Drawn By: RL

Partial
Reflected
Ceiling Plan
@Studio



Reflected Ceiling Plan Legend

SUPPLY AIR GRILLE

RETURN AIR GRILLE

RECESSED DOWNLIGHT

PENDANT FIXTURES

SUSPENDED CEILING TILE. INSTALL 6" SOUND ATTENUATION BLANKETS ABOVE TILES. SEE DETAIL 13 ON A5.3.

SEE MECHANICAL DRAWINGS FOR MORE INFORMATION REGARDING HVAC SYSTEMS AND DUCTWORK.

SEE LIGHTING & ELECTRICAL DRAWINGS FOR MORE INFORMATION REGARDING LIGHTING SPECS, DIMMING, ETC.

Reflected Ceiling Plan Notes

1. SEE MECHANICAL PLANS FOR MORE INFORMATION ON DUCTWORK ROUTING AND GRILL SIZE.

2. SEE DIAGRAMMATIC LIGHTING PLAN FOR MORE INFORMATION REGARDING LIGHTING, CIRCUITING, AND FIXTURES.

3. SEE ENLARGED PLANS FOR MORE INFORMATION.

4. RECESSED LIGHTS IN FABRIC SOFFITS TO BE DETAILED AS PER DETAIL x on Axx.

5. GC TO VERIFY EXISTING CONDITIONS IN FIELD AND REPORT DISCREPANCIES TO ARCHITECT IMMEDIATELY.

6. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL CAREFULLY REMOVE, PROTECT, AND STORE ALL CONSTRUCTION ELEMENTS TO BE REUSED.

7. DO NOT REMOVE ANY BUILDING CLASS "E" FIRE PROTECTION SIGNALS OR EQUIPMENT UNLESS SPECIFICALLY NOTED. PROTECT AS REQUIRED FOR THE DURATION OF THE PROJECT.

8. LIFE SAFETY SYSTEMS MUST REMAIN INTACT AND PROTECTED FROM FALSE TRIGGERING DURING WORK.

9. PROTECT ALL HVAC SYSTEMS FROM DUST AND DEBRIS - SEAL AIR RETURN OPENINGS DURING CONSTRUCTION.

Construction Plan Notes

1. GC TO VERIFY EXISTING CONDITIONS IN FIELD AND REPORT DISCREPANCIES TO ARCHITECT IMMEDIATELY.

2. CONTROL ROOM IS SYMMETRICAL AROUND CENTERLINE.

3. ALL PENETRATIONS IN ACOUSTIC BOUNDARIES DETAILED AS PER SHEET A5.1 WHERE APPLICABLE.

4. ANY DOORS THAT ARE NOT LABELED ARE EITHER EXISTING DOORS TO REMAIN, OR ARE OUTSIDE WSDG'S SCOPE.

5. ALL DIMENSIONS SHOWN TO FACE OF STUD.

6. CENTERLINES OF COLUMNS ARE USED TO LOCATE CONTROL POINTS FOR CONTROL ROOM CENTERLINE AND OTHER DIMENSIONS. GC TO VERIFY THESE IN FIELD AND NOTIFY ARCHITECT IMMEDIATELY IF THERE ARE ANY DISCREPANCY OR QUESTIONS.

7. SEE PARTITION TYPE DETAILS FOR MORE INFORMATION.

8. CONTRACTOR SHALL NOT SCALE DRAWINGS.

9. SEE COVERSHEET FOR APPROVED ACOUSTIC MATERIALS LIST.

10. G.C. SHALL PATCH ALL EXISTING WALLS AS REQ'D. WHERE ANY WALL/CONSTRUCTION WAS REMOVED DURING DEMOLITION.

Construction Plan Legend

EXISTING CONSTRUCTION TO REMAIN

NEW CONSTRUCTION

Keynotes

1 2" PREFABRICATED FABRIC PANEL. SEE DETAIL 9 ON A5.1.TOP TO ALIGN WITH TOP OF WINDOW FRAMES.

9 FULL HEIGHT AV RACKS (BY OTHERS). GC TO COORDINATE HEIGHT WITH SPECIFIED DOOR SIZE TO ENSURE FIT. REFER TO INFRASTRUCTURE DRAWINGS.

14 ACOUSTIC CEILING TILES. SEE DETAIL 13 ON A5.3 FOR MORE INFORMATION.

19 FURNITURE BY OWNER.

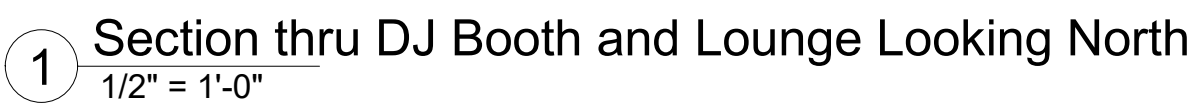
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Partial Construction Floor & RCP Plan @Lounge

A1.7



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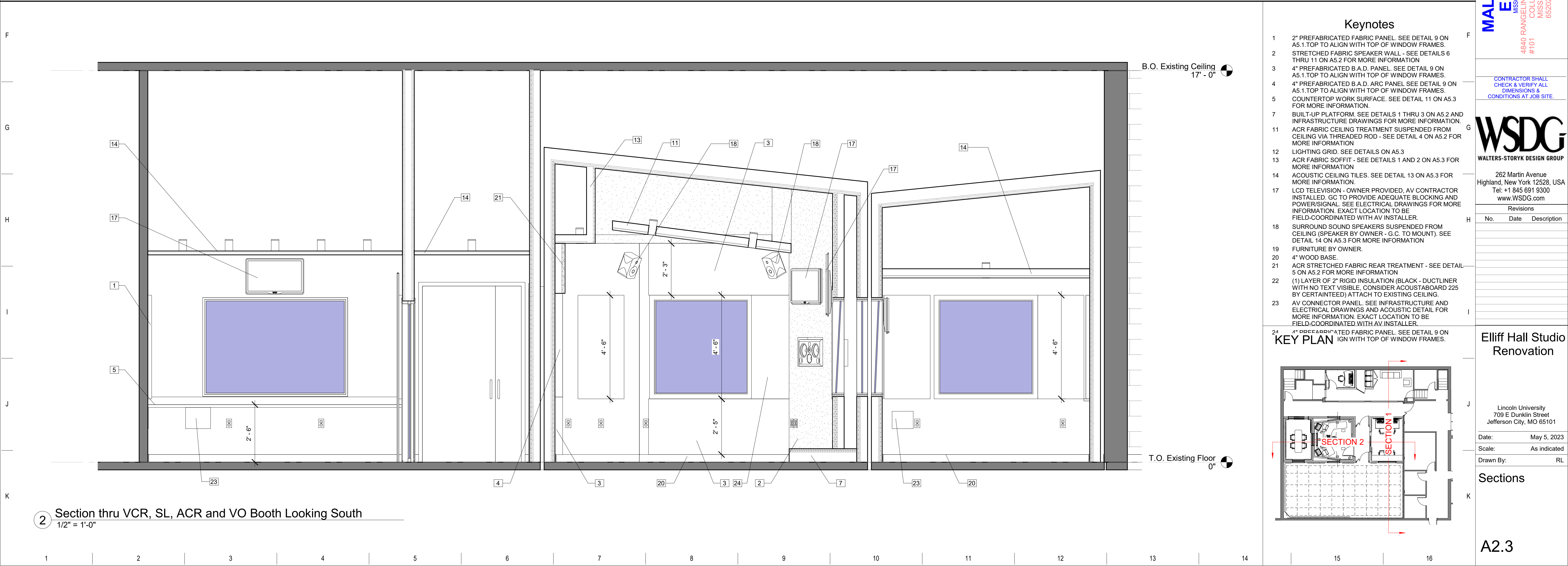
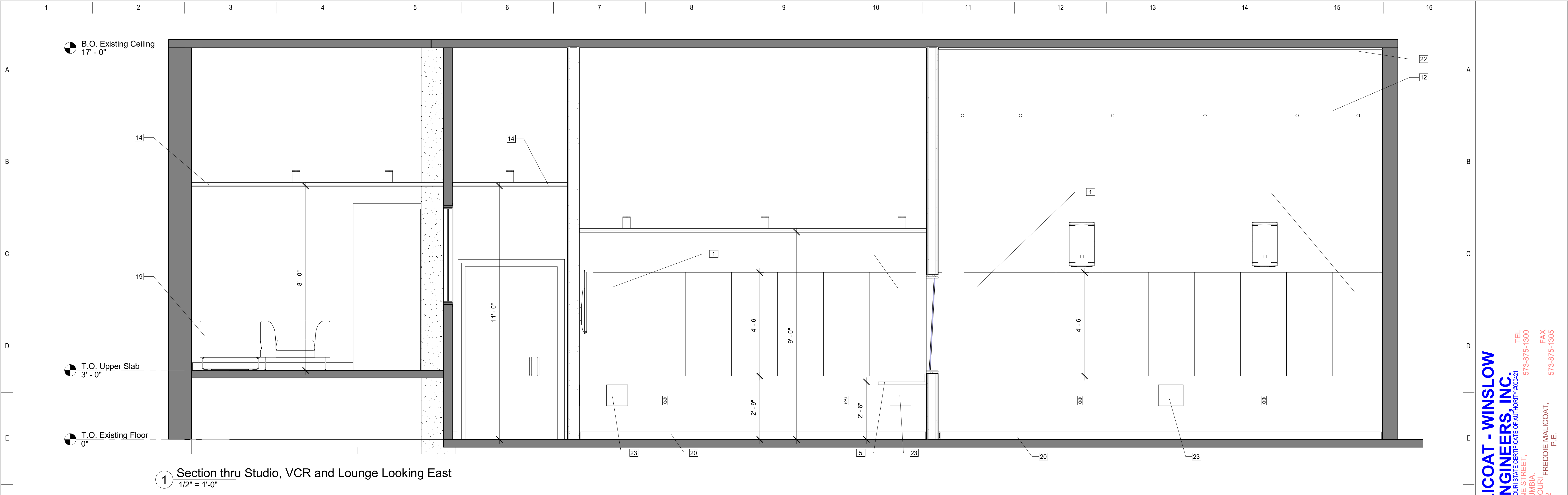
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Sections



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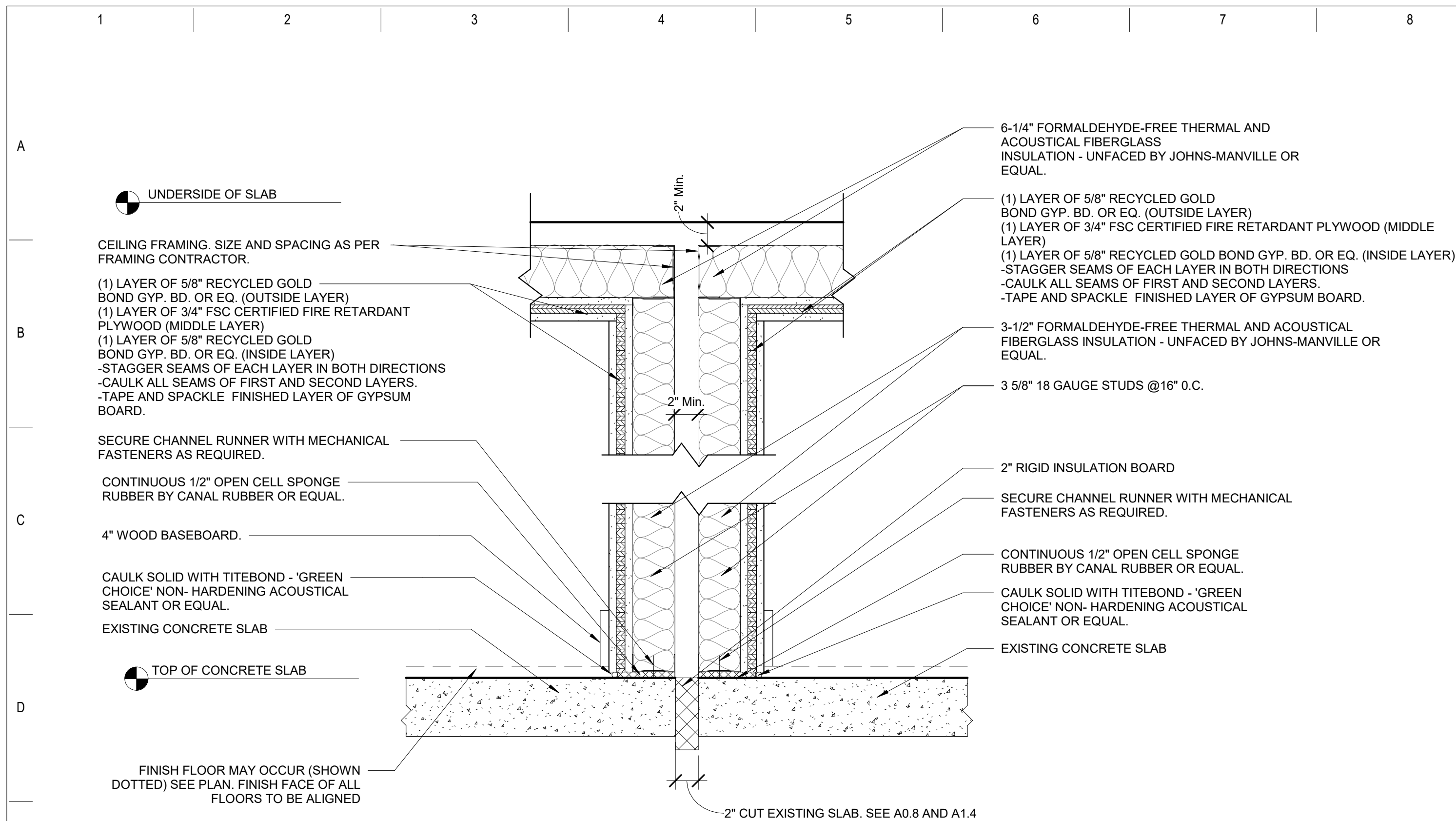
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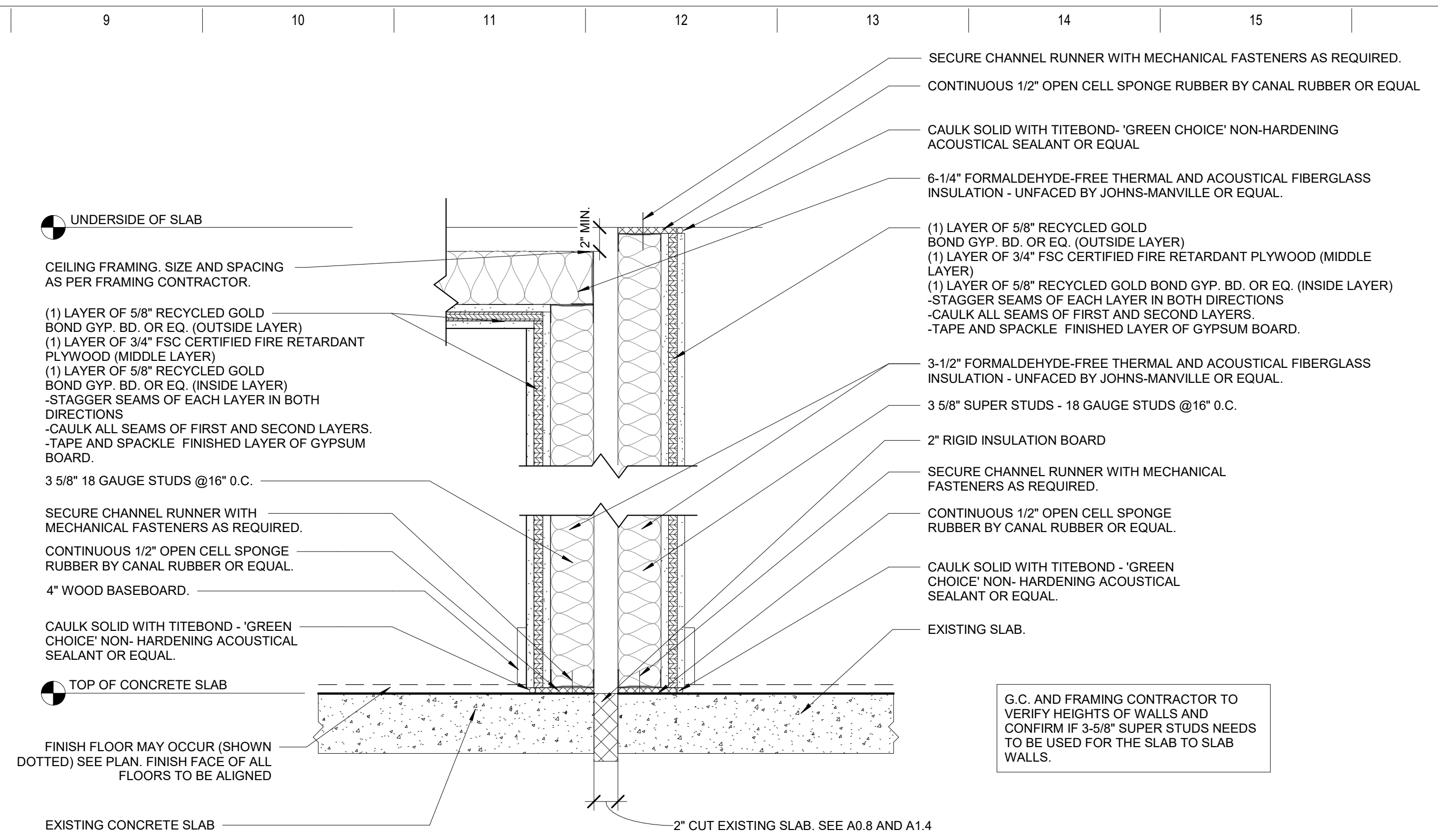
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Sections

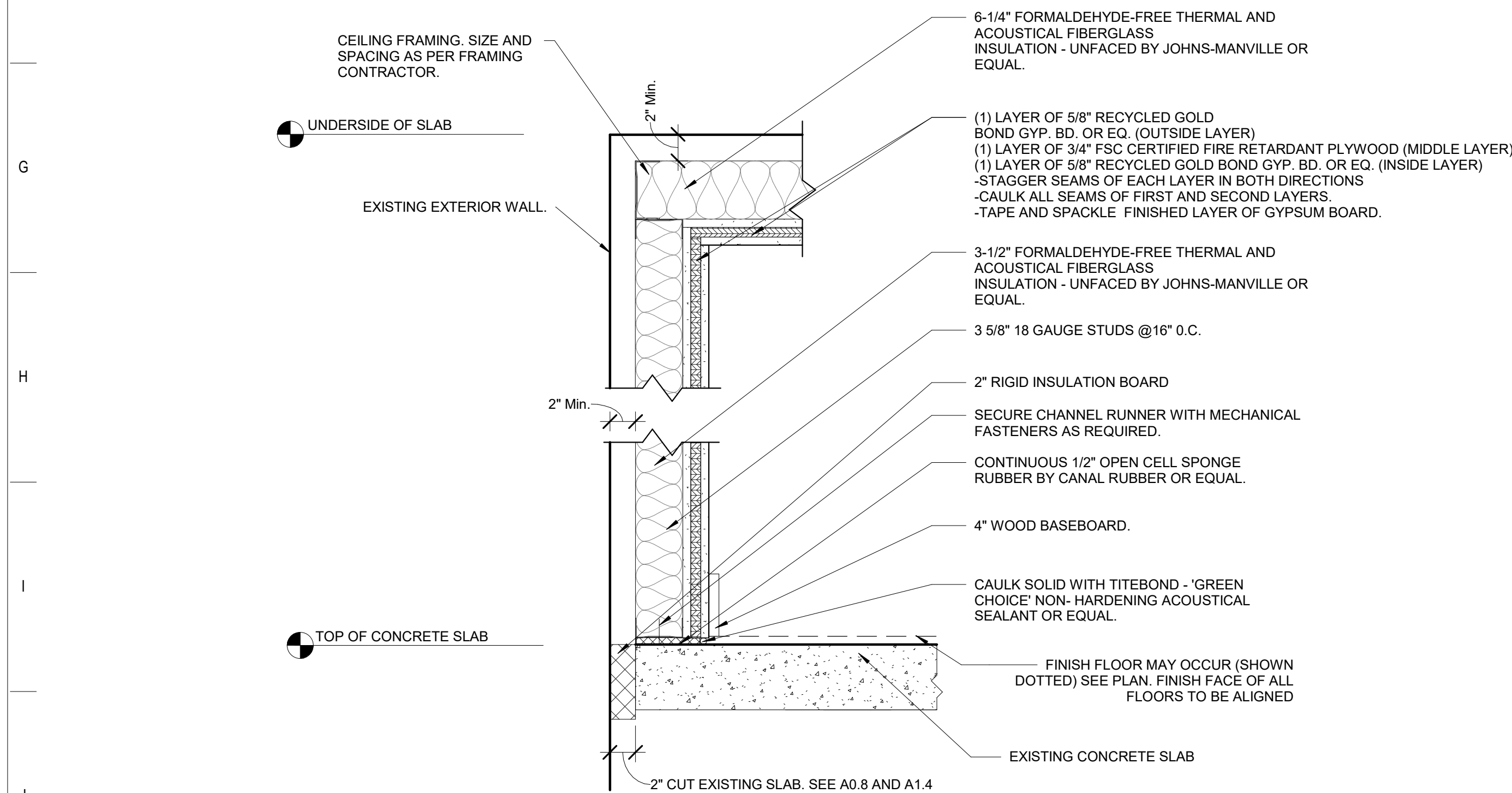
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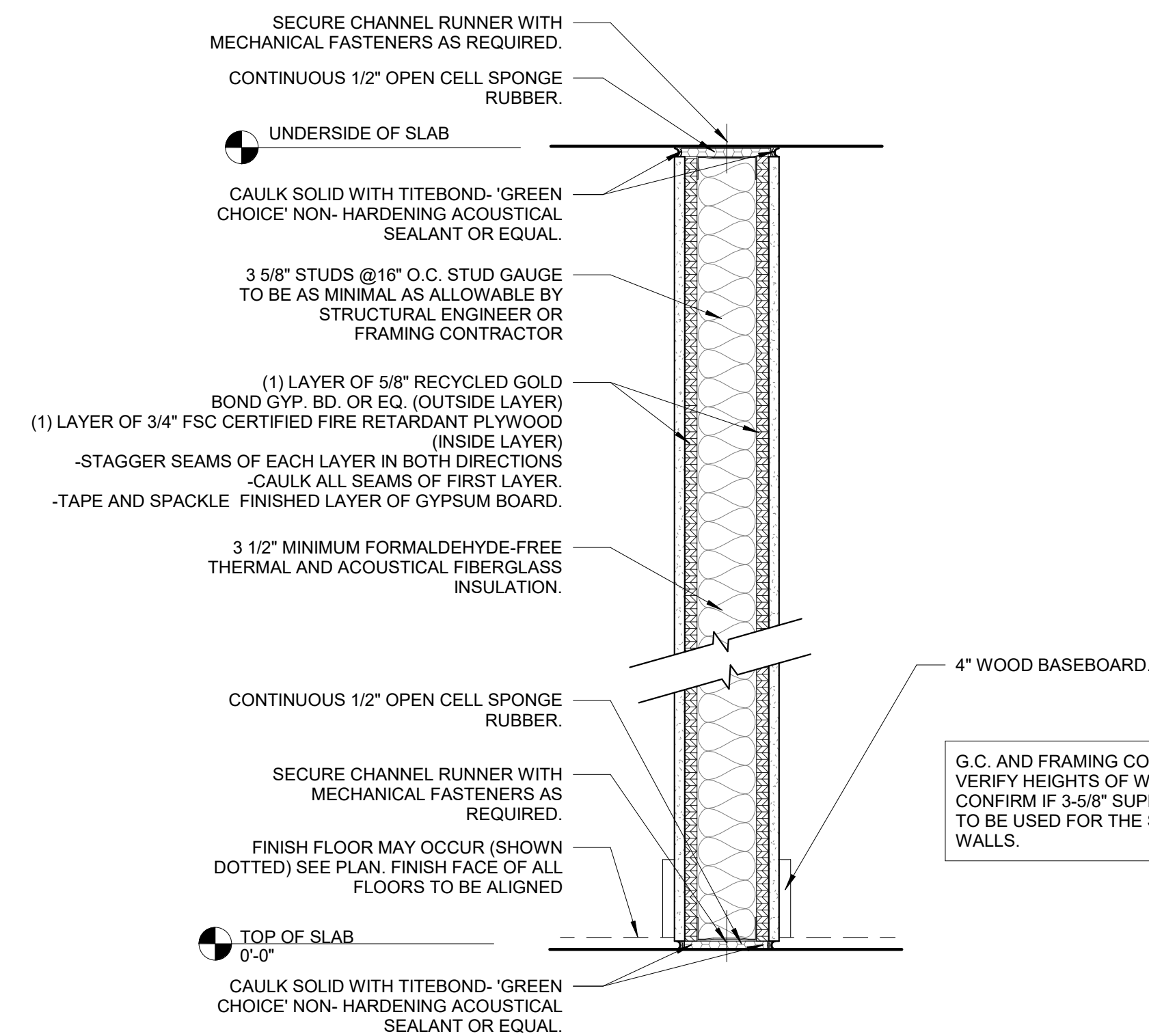
1 Acoustic Boundary Assembly Type 1
1 1/2" = 1'-0"



2 Acoustic Boundary Assembly Type 2
1 1/2" = 1'-0"



3 Acoustic Boundary Assembly Type 3
1 1/2" = 1'-0"



4 Acoustic Boundary Assembly Type 4
1 1/2" = 1'-0"

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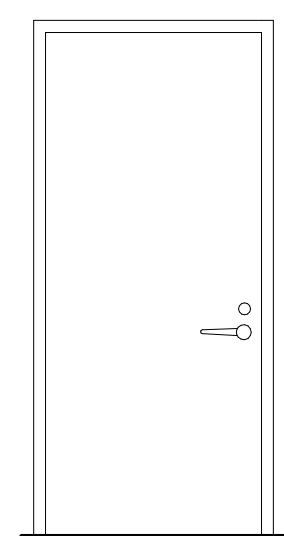
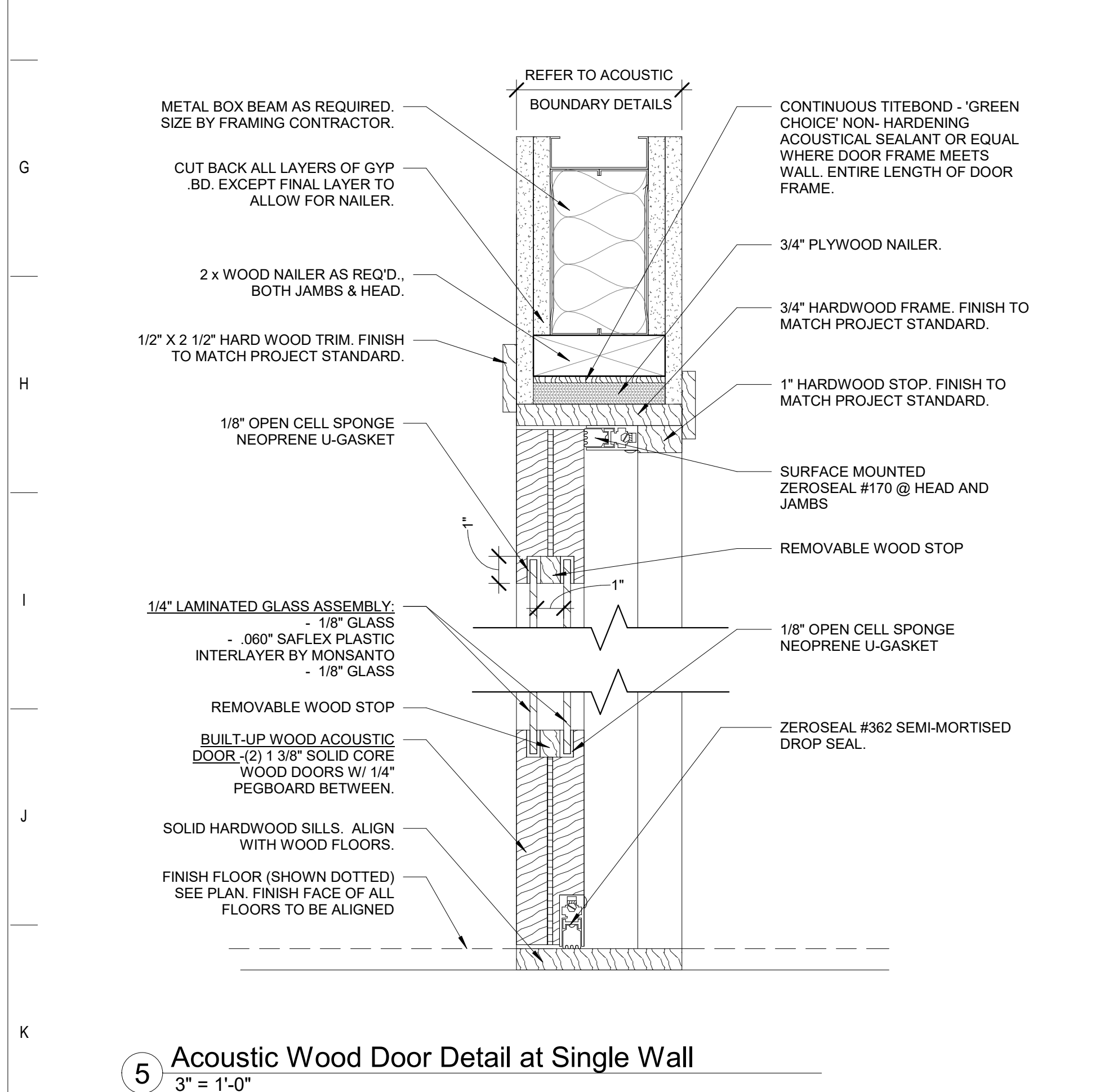
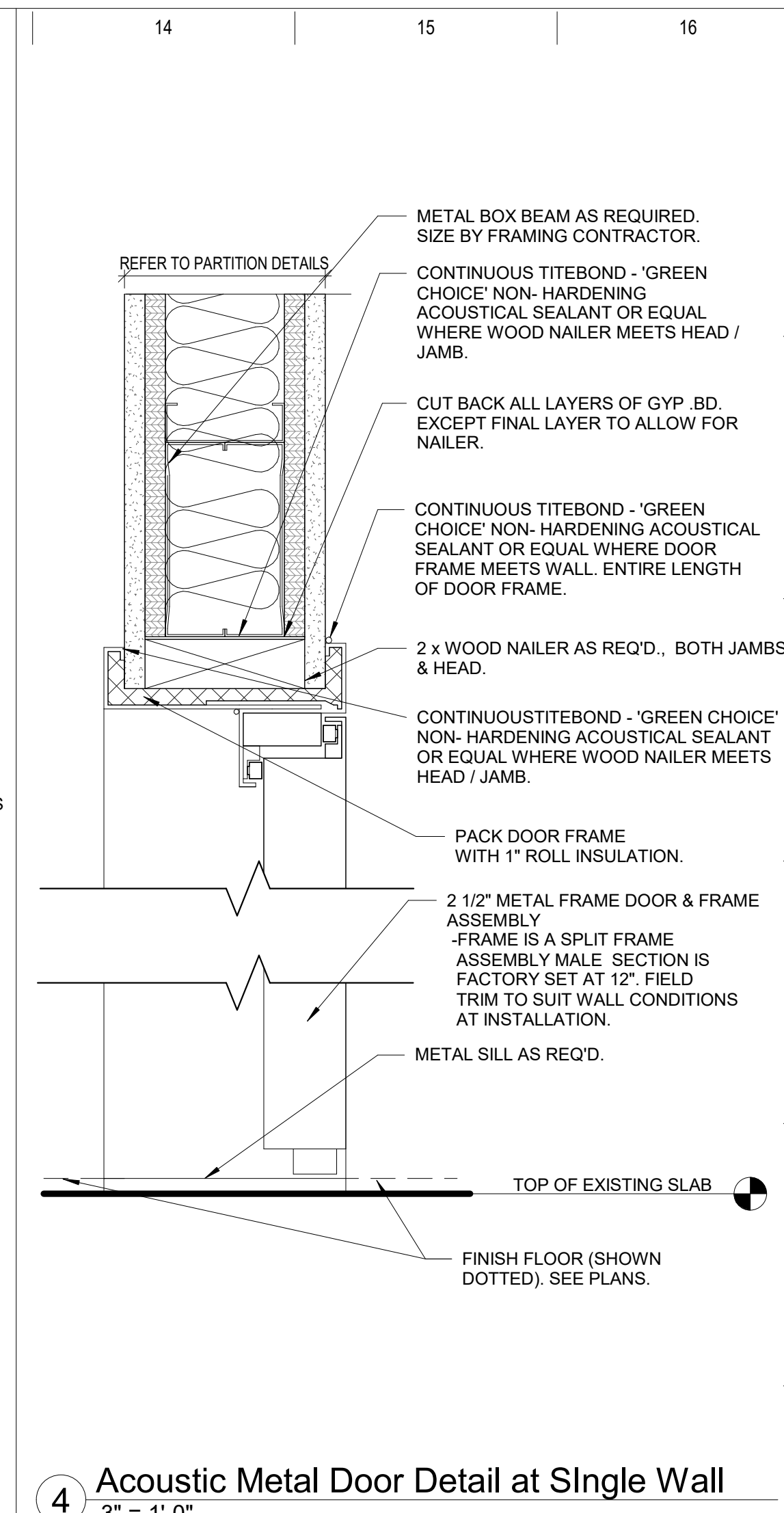
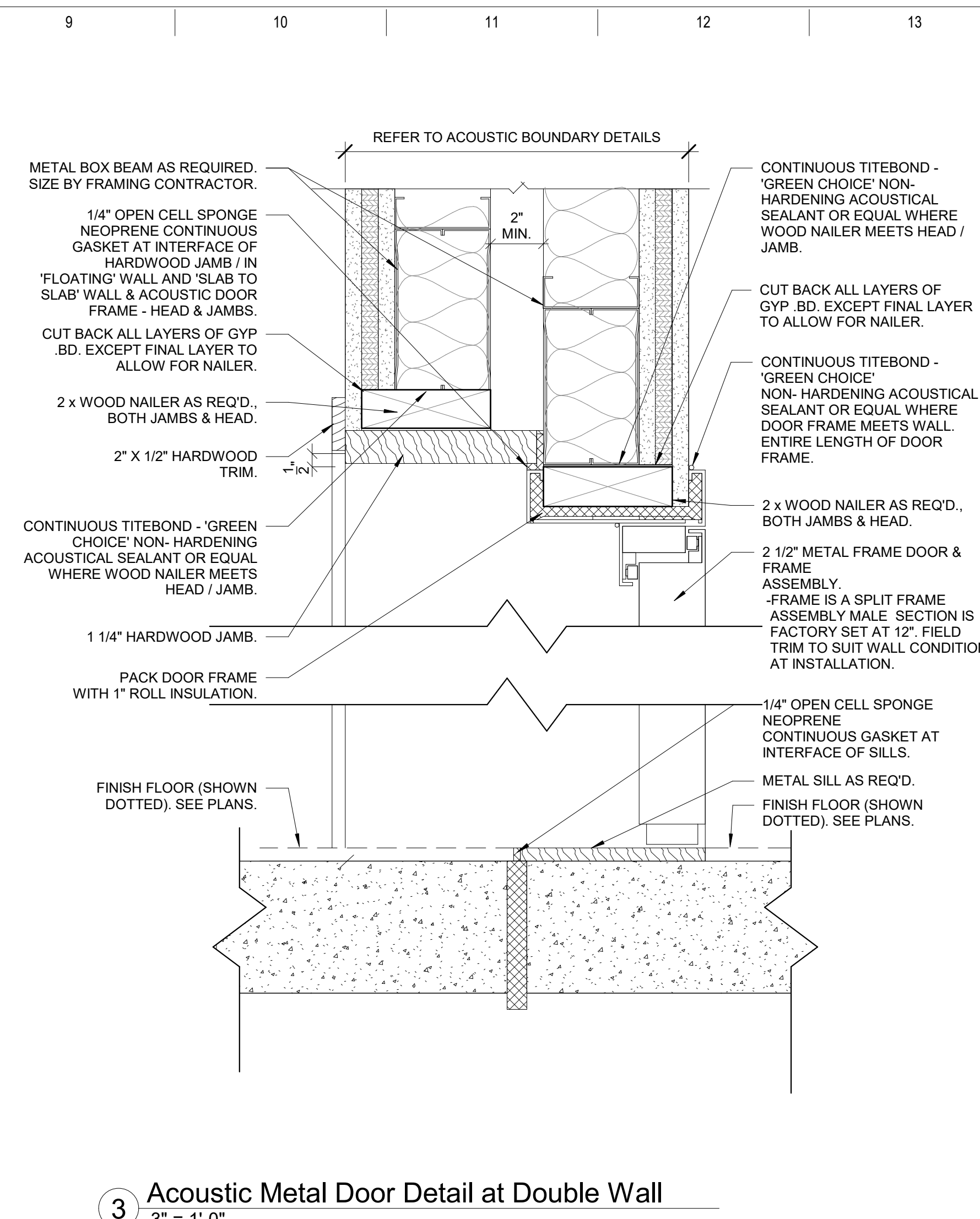
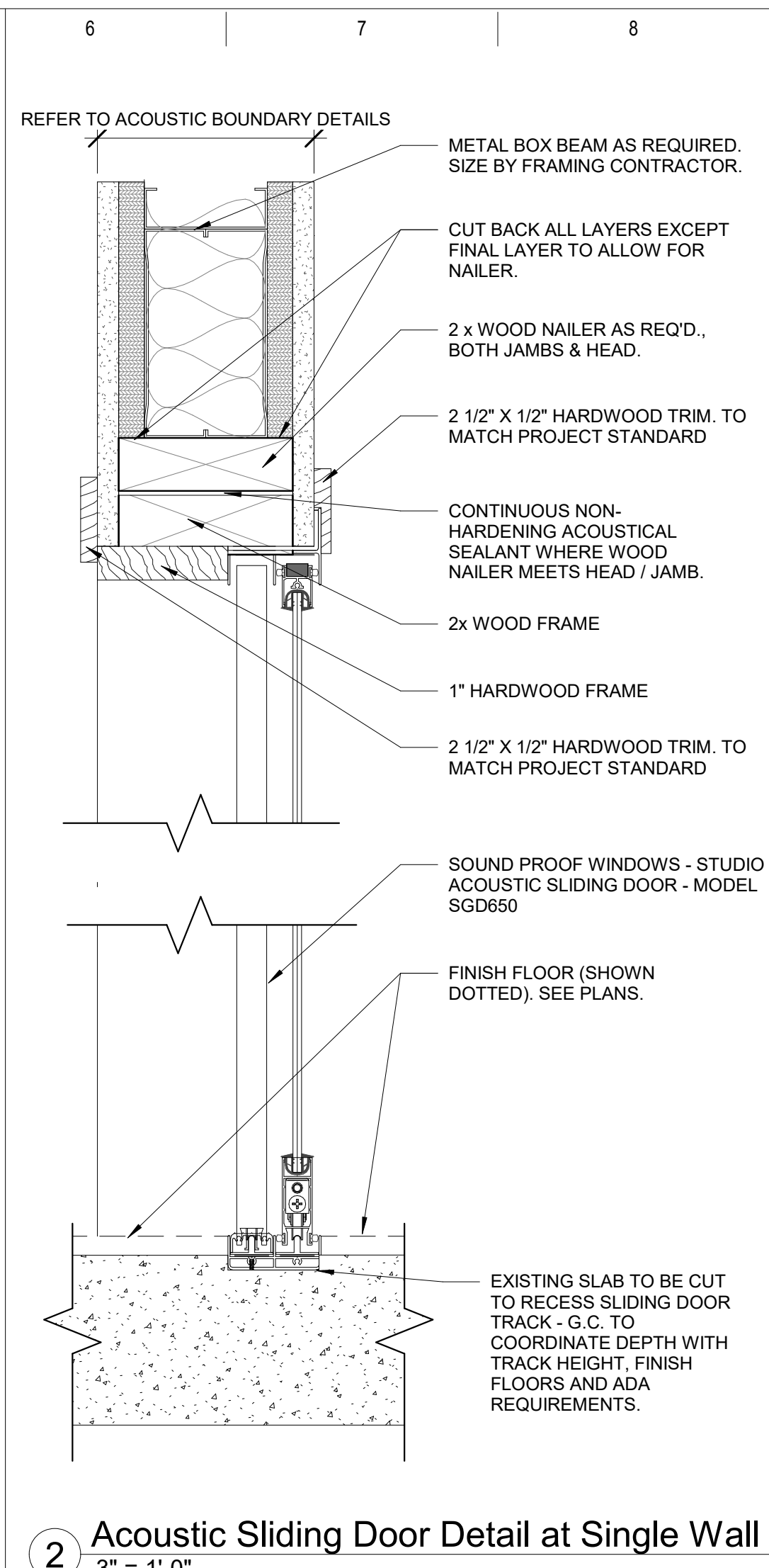
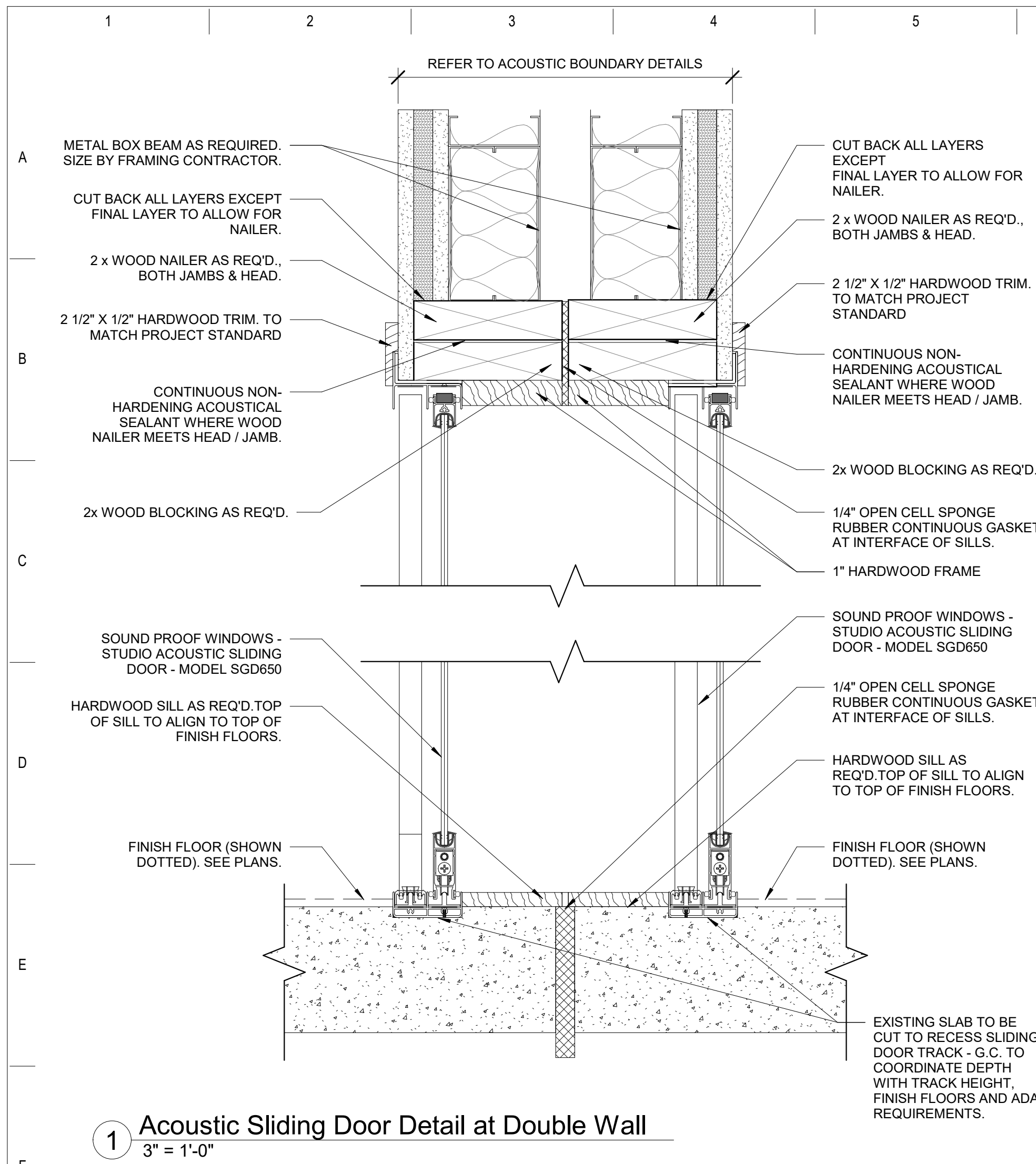
Date: May 5, 2023

Scale: $1\frac{1}{2}" = 1'-0"$

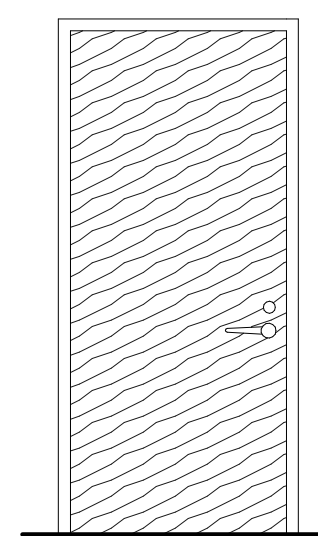
Drawn By: RL

acoustic
boundary
assemblies

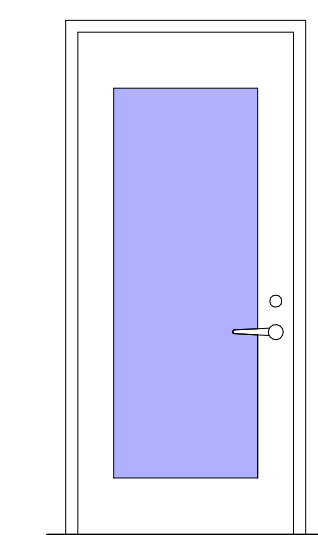
A3.1



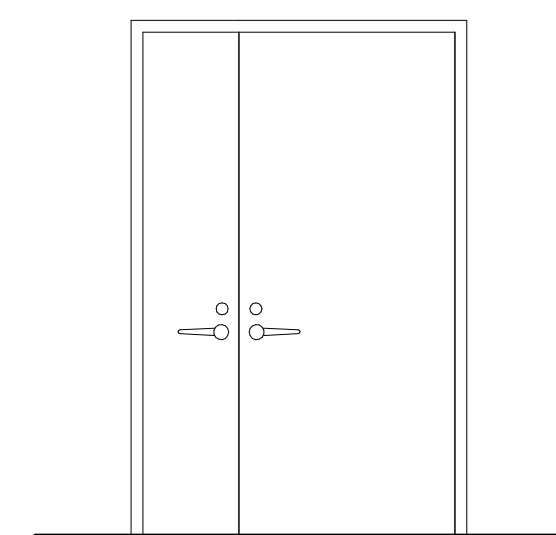
Type 'A' - Single Metal Door



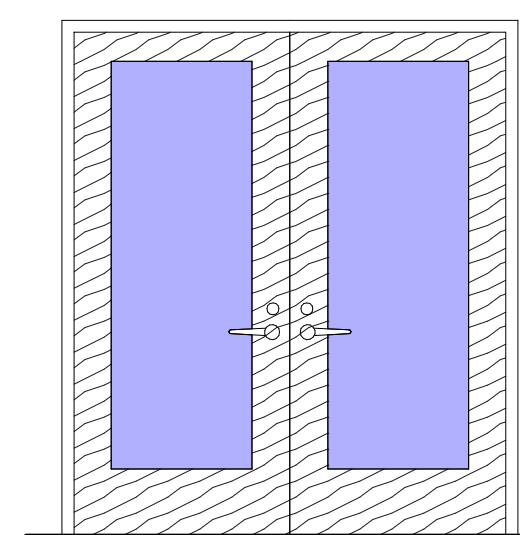
Type 'B' - Single Wood Door



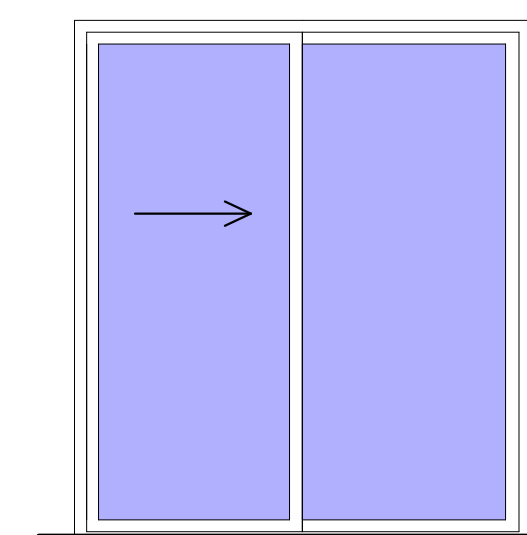
Type 'C' - Single Metal Full Glass Door



Type 'D' - Double Metal Door



Type 'E' - Double Wood with Full Glass



Type 'F' - Double Glass Sliding Door

DOOR SCHEDULE								
DOOR #	HEIGHT (C.O.)	WIDTH (C.O.)	PANEL THICKNESS	STC RATING	MANUFACTURER	DOOR TYPE	DETAIL #	NOTES
AD-01	6' - 10 1/2"	6' - 9"	1 1/2"	65	SPW	Type 'F'	1 / A4.1	
AD-02	7' - 0"	3' - 0"	2 1/2"	53	IAC	Type 'C'	3 / A4.1	
AD-03	6' - 10 1/2"	6' - 9"	1 1/2"	40	SPW	Type 'F'	2 / A4.1	
AD-04	7' - 6"	4' - 0"	2 1/2"	51	IAC	Type 'D'	4 / A4.1	
AD-05	7' - 6"	4' - 0"	2 1/2"	53	IAC	Type 'D'	4 / A4.1	
AD-06	7' - 0"	2' - 10"	1 3/4"			Type 'B'	5 / A4.1	
AD-07	7' - 0"	6' - 0"	1 3/4"			Type 'E'	5 / A4.1	
AD-08	7' - 0"	2' - 8"	2 1/2"	51	IAC	Type 'A'	4 / A4.1	
AD-09	7' - 6"	4' - 0"	2 1/2"	51	IAC	Type 'D'	4 / A4.1	

Note:

1. Any door substitutions must comply with WSDG requirements for isolation, including performance below 63Hz.
2. Hardware shall be as specified by the Local Architect and Colege.
3. Doors to be fire-rated as specified by the Local Architect.
4. Closers to be provided on acoustic doors - review with client prior to ordering.
5. Doorstops to be provided for all acoustic doors.
6. Door hold opens to be provided on acoustic swing door hardware. Recommended Ives FS-42 spring catch.

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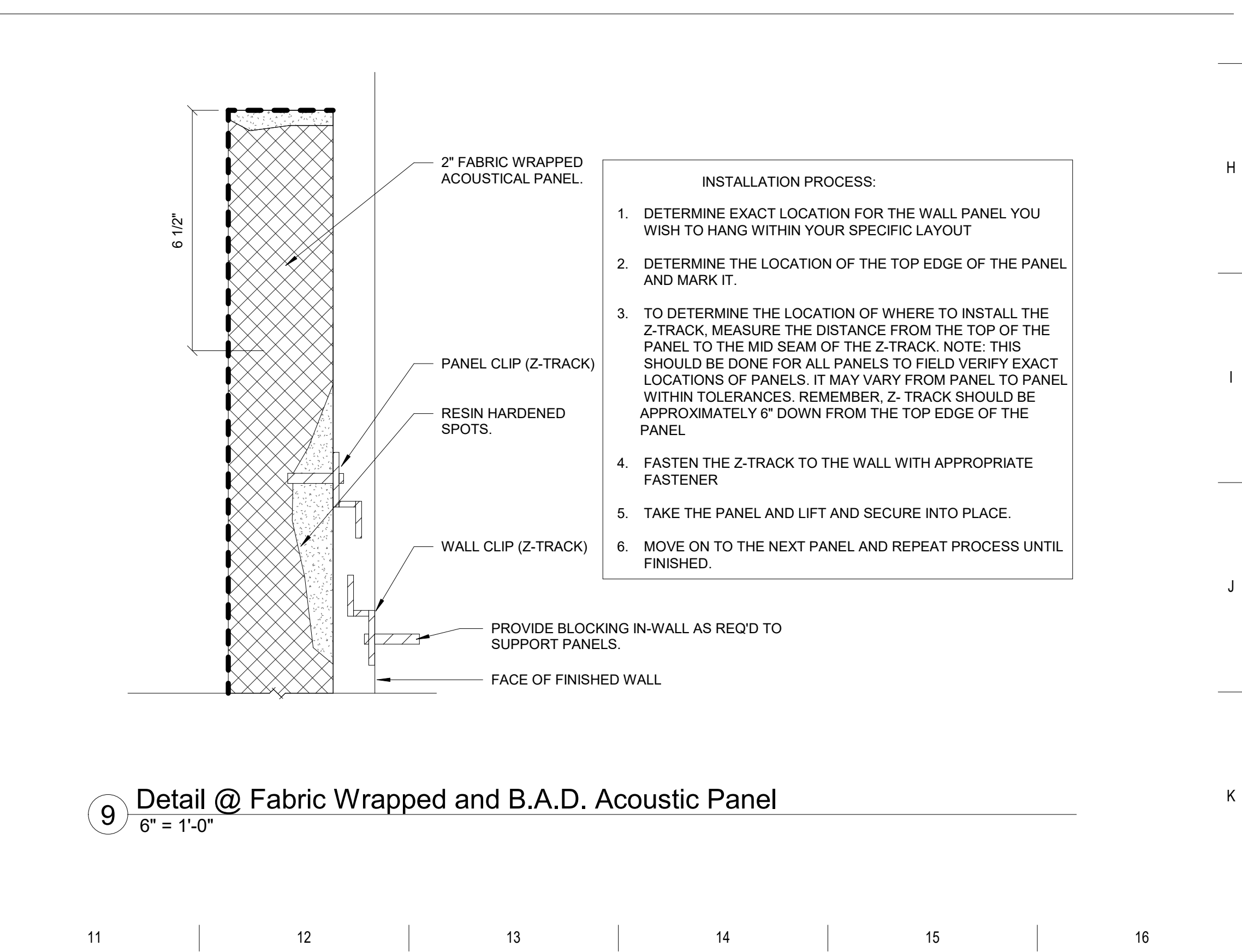
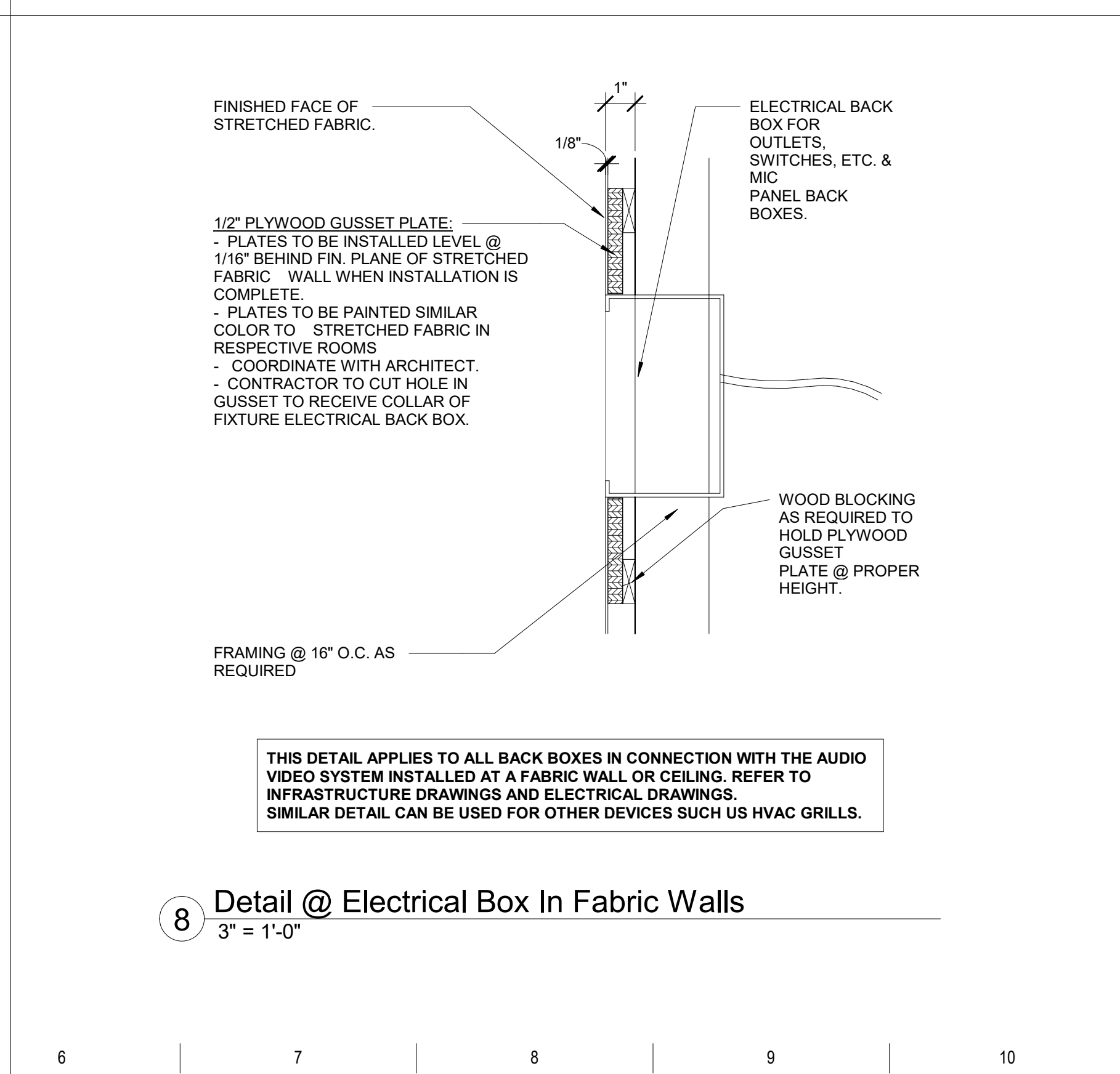
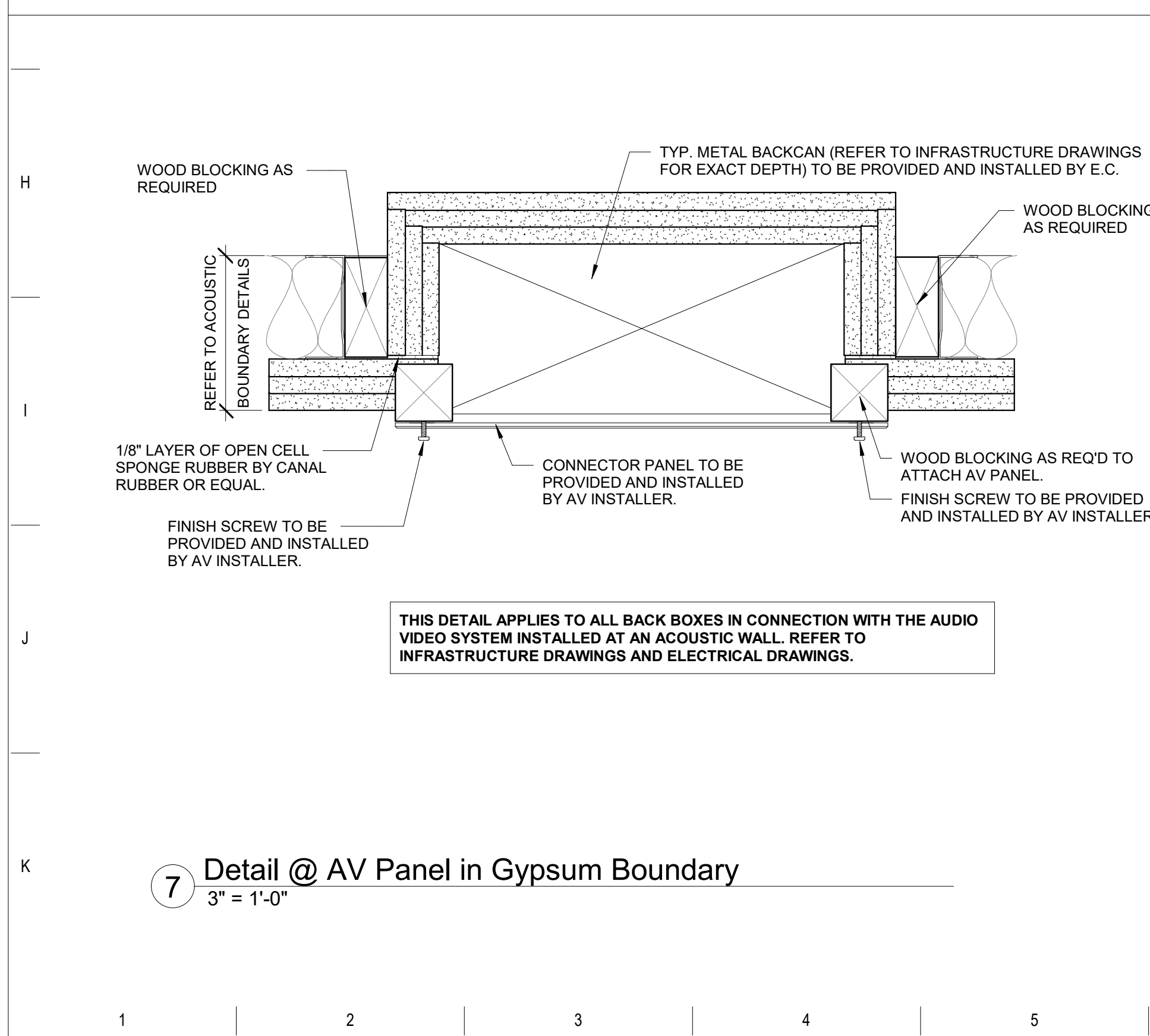
Date: May 5, 2023

Scale: As indicated

Drawn By:	RL
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K Doors
Schedule &
Details

A4.1



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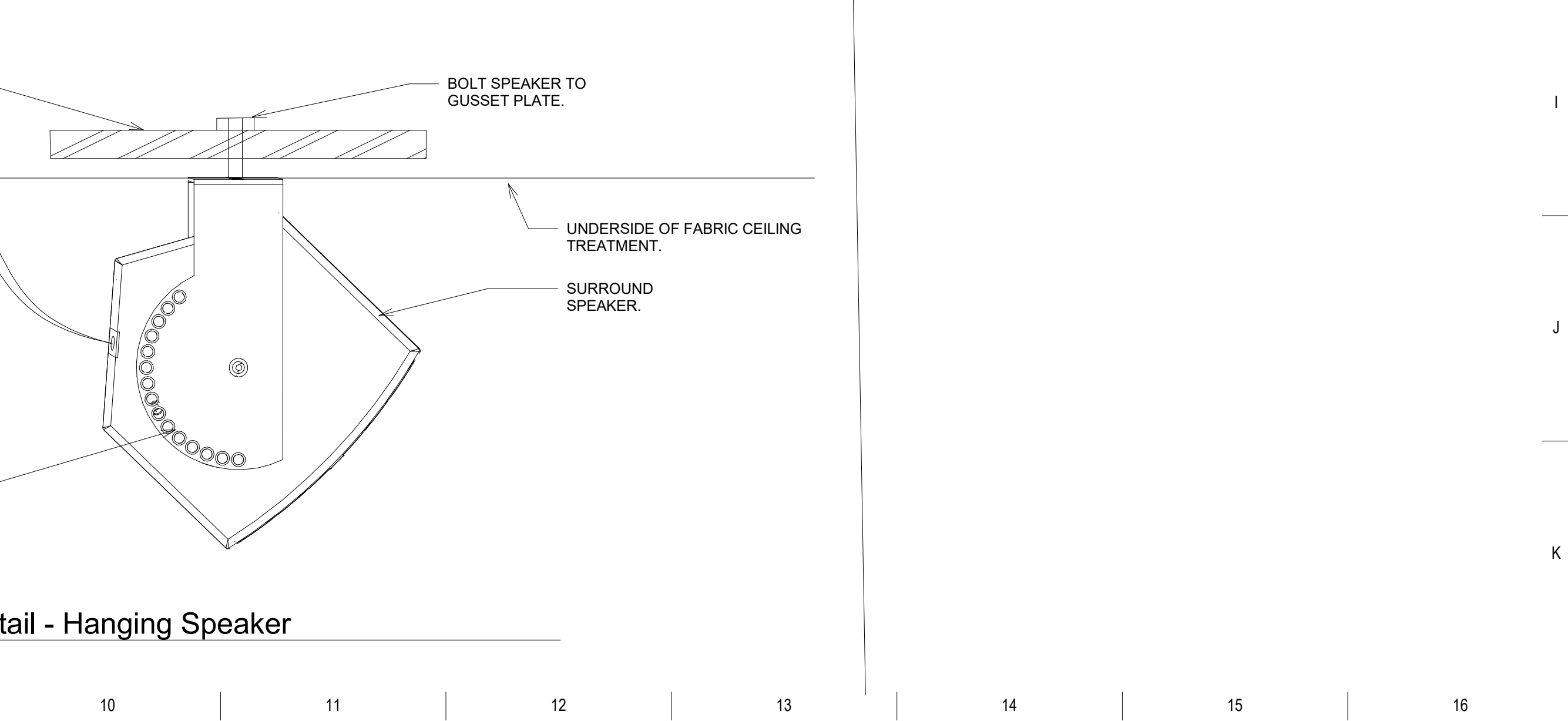
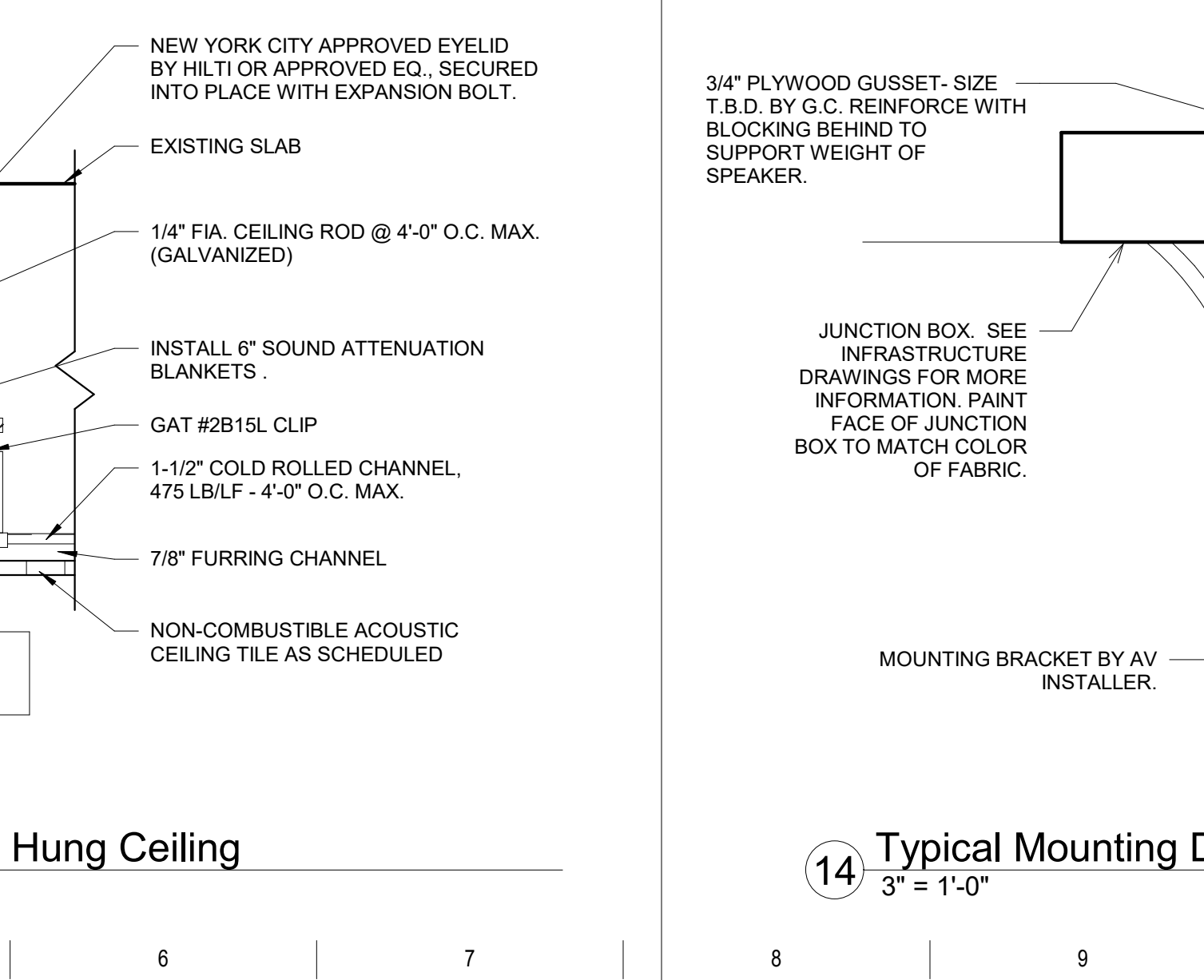
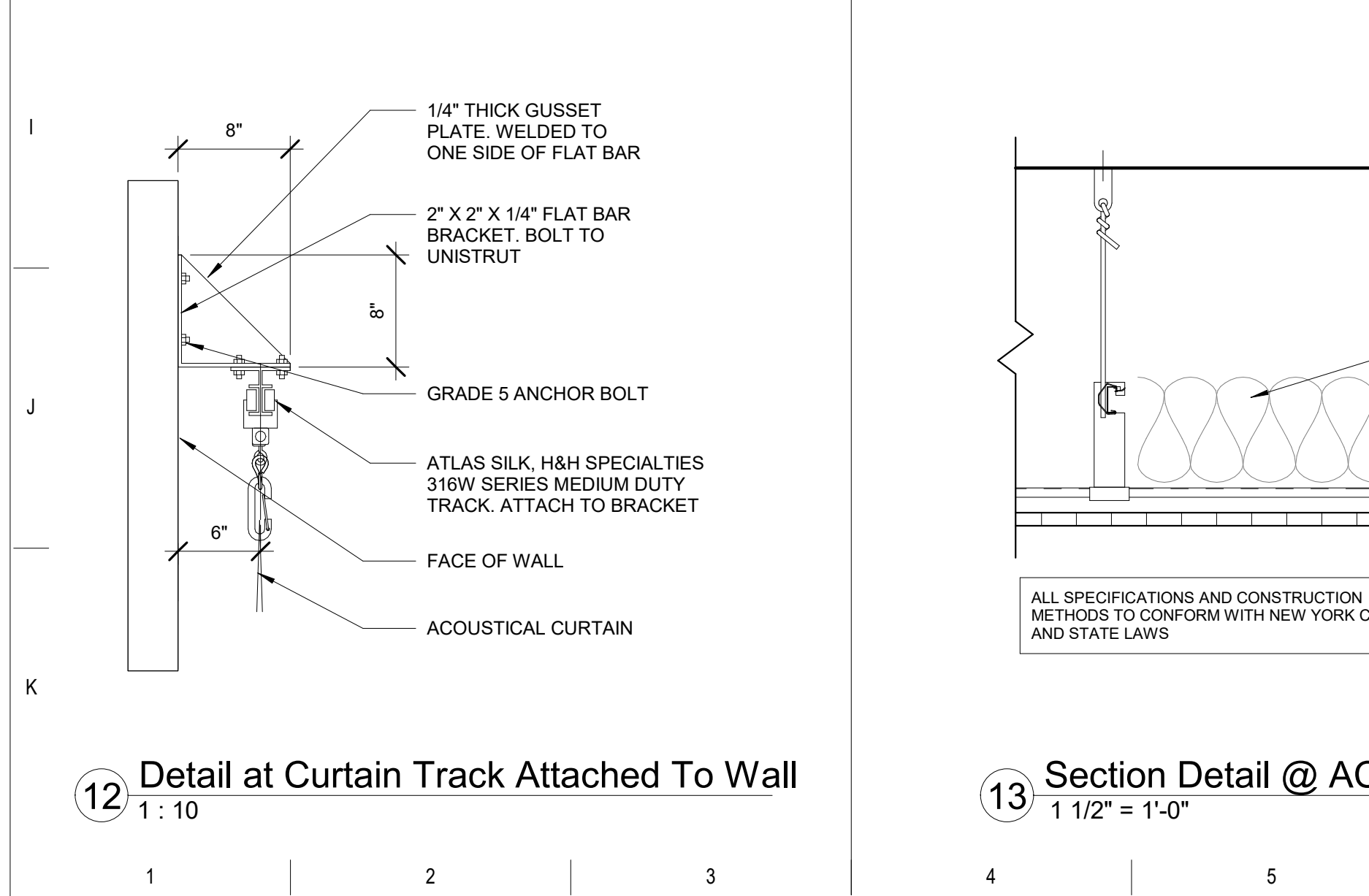
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Drawn By: _____ RL

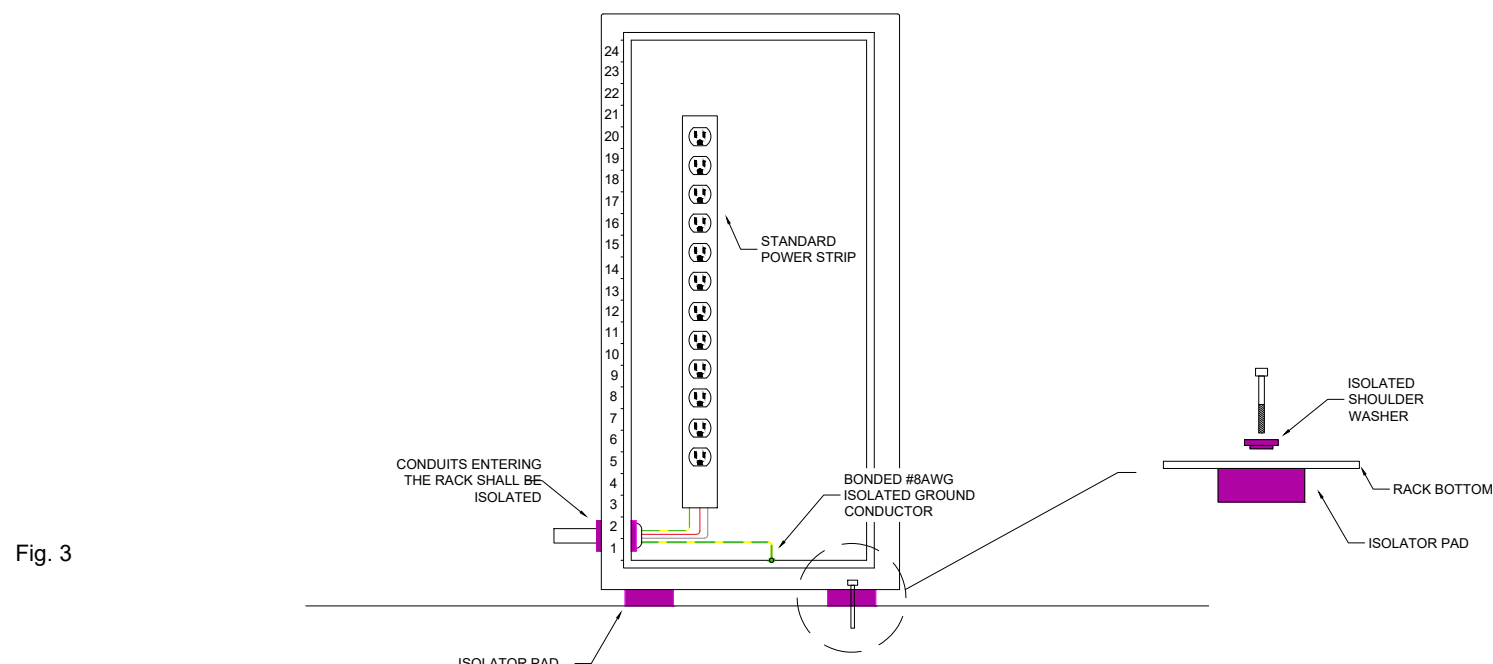
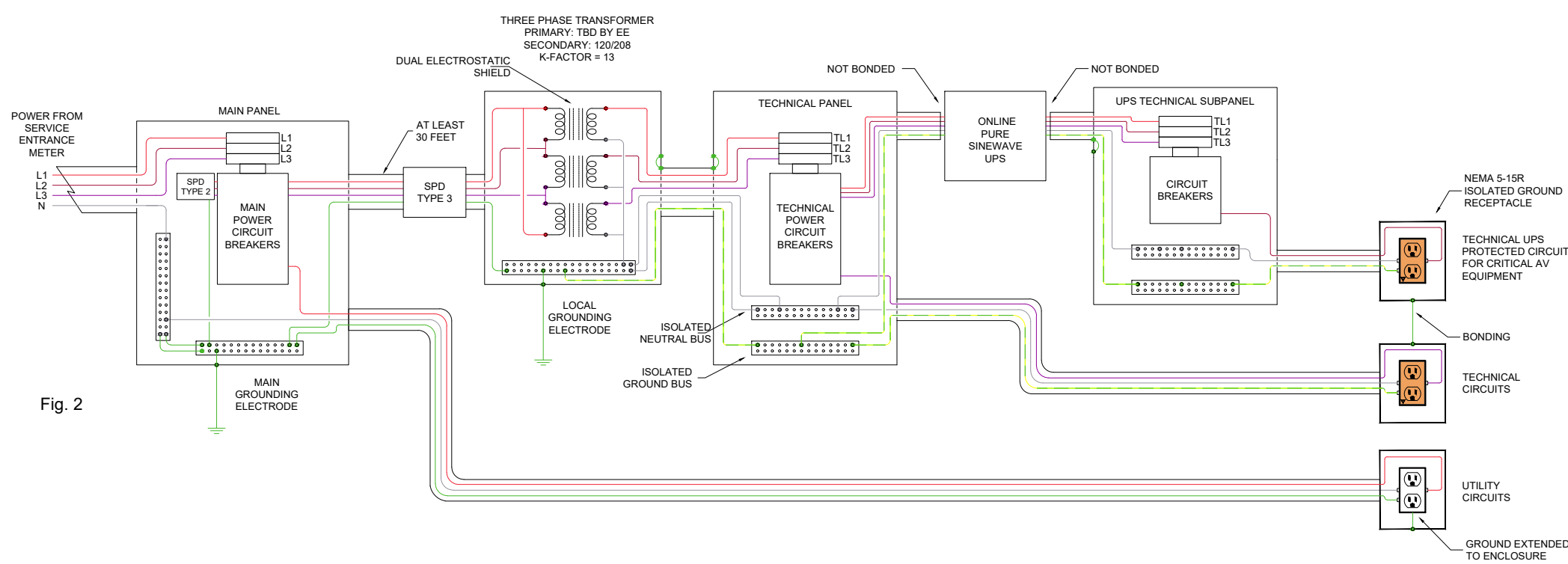
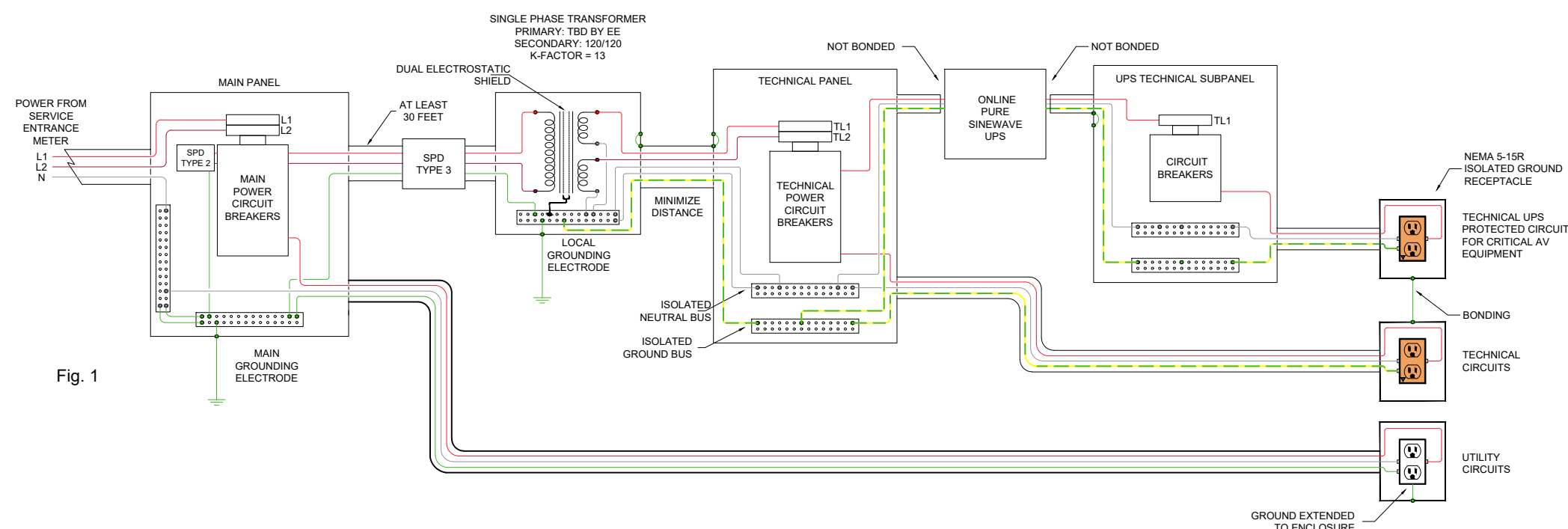
Acoustic Details

A5.1



A5.3

THESE GUIDELINES ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL
ENGINEERING DRAWINGS



	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E	GROUP F	GROUP G
GROUP A	ADJACENT	6"	12"	12"	ADJACENT	18"	24"
GROUP B		ADJACENT	6"	12"	ADJACENT	18"	24"
GROUP C			ADJACENT	6"	ADJACENT	12"	18"
GROUP D				ADJACENT	ADJACENT	12"	18"
GROUP E					ADJACENT	ADJACENT	ADJACENT
GROUP F						ADJACENT	ADJACENT
GROUP G							ADJACENT

TABLE N° 1 - MINIMUM SEPARATION BETWEEN CONDUITS CARRYING WIRING OF DIFFERENT GROUPS

ELECTRICAL NOTES

This narrative describes the requirements and best practices to minimize noise and preserve the integrity of audio, video & data signals, from an electrical infrastructure perspective. Local codes and safety regulations always have precedence and shall be coordinated with the AV design team.

- There shall be two electrical systems in the facility. The first one is the traditional, with a standard panelboard, for general-purpose receptacles, appliances, lighting, mechanical, etc. Branch circuits from this panel shall be referred as "utility power circuits". The second one shall be fed from a panelboard equipped with an isolated ground and neutral bus, and shall be configured for 120 volt, 2 poles and isolated ground. All branch circuits fed from this panel shall be used for audio and video equipment only and shall be known as "technical power circuits".
- The source of power for the technical power panel, shall be derived from the secondary of a 120V/120V single-phase isolating transformer with its windings connected in phase, as shown in fig. 1. The transformer shall have dual electrostatic shields, be rated K13 or better, be convection cooled and ventilated. For 3-phase systems, the transformer shall be a 120/208V 3-phase with 30-degree phase shift, dual electrostatic shield and rated K13 or better as shown in fig. 2. This is implemented to electrically isolate the technical power from the utility power. Transformer shall be equipped with spring isolators whether floor or trapeze mounted.
- An online pure sinewave UPS shall be used to prevent data loss in computers, digital audio workstations and/or any system that requires proper shut down before being turned off. Mission critical systems such as broadcast stations may require a different UPS strategy.
- Surge protection devices shall be implemented as shown in fig. 1 & 2. Besides the safety aspect, SPD's reduce transient noise caused by switched inductive loads nearby (e.g., electrical motors) Electrical engineer to define SPD's implementation, size, and types.
- Power factor correction for the electrical system shall be implemented in the main panel by the electrical engineer, ensuring a PF coefficient no less than 0.96.
- All panels for technical power shall have a double current rating neutral bus, to handle the combined loads of both secondary windings of the isolation transformer. The ground bus shall have the same number of terminals and be of the same size as the neutral bus. No other type of receptacles or non-technical equipment shall be powered from these panels.
- Each receptacle fed from a technical power circuit shall have an isolated ground conductor along with a phase and neutral conductor directly derived from the technical power panel. The isolated ground conductor shall be of the same size as the neutral conductor and shall be connected to the isolated ground bus in the panel and to the ground screw of the respective isolated ground receptacle. Conductors from technical power branch circuits shall be sized according to expected current draw presented by the AV design team. The isolated ground conductors shall be the same color throughout the installation, and different from the building ground conductor, to avoid confusion. Plenum rated cable shall be used, XHHW-2 insulation recommended.
- All technical power circuits shall terminate in isolated ground receptacles. These receptacles shall be orange in color or have a logo that identifies their use for technical equipment only. The ground lug of these receptacles shall not be extended to the metal box in which they are installed, as this will defeat the purpose of the ground isolation.
- Technical power branch circuit conductors may be grouped together in a common metal raceway if they are derated in accordance with local electrical code. Bonding of electrical enclosures and raceways is accepted but should not be carried over to the ground lug of the technical power receptacles.
- AV Equipment racks shall be configured as described in fig 3. The racks shall be isolated from the floor with non-conductive material (e.g., PVC separators). Any conduit entering the racks shall be properly isolated as well. Technical power branch circuits shall feed a standard power strip in the racks. A #8AWG isolated ground conductor directly derived from the isolated ground bus in the technical panel shall be connected to the chassis frame of the AV racks.

CONDUIT NOTES

- All empty conduit runs shown on the drawings are diagrammatic only. Electrical contractor shall minimize conduit length and total bend angle. No conduit run is to have more than three quarters (270°) of total bend or 20 mts (65 ft) of length between pull box locations. Contractor to coordinate installation of conduit system with all other mechanical systems (ductwork, sprinkler, etc.).
- All raceways for audio and video cables shall be run concealed from point to point. Raceways shall be continuous (no gaps) and equipped with a pull wire. All raceways shall be tagged at each end.
- All raceways to be EMT unless located in a concrete slab, or corrosive environments. In such case, PVC conduits shall be used. Flexible metal raceway (greenfield) also may be employed at certain locations only when approved by the AV design team.
- EMT raceways that are terminated at metal enclosures shall utilize a locknut on the outside and inside of enclosure and an insulated throat bushing on the inside of enclosure. The ends of EMT raceways that are terminated in a speaker enclosure, nonmetallic floor trough, or architectural build-out shall be equipped with an insulated throat bushing.
- All changes in direction of empty conduit runs shall be executed with large sweep factory elbows or gentle field bends. All radius measurements shall be made to the centerline of the bend and shall comply with NEC, chapter 9, table 2.
- Do not run 120 volt raceways parallel to empty conduit for audio, video or other low voltage signal cables. If parallel runs are unavoidable, conduit separation by wiring group shall comply with Table n°1.

Group description:

- GROUP A : MICROPHONE AND OTHER SENSITIVE WIRING. 0 mV TO 100 mV.
GROUP B : LINE LEVEL WIRING. 100 mV TO 10V.
GROUP C : LOUDSPEAKER AND CONTROL WIRING . 10V TO 70V.
GROUP D : TELEPHONE, VIDEO, CONTROL, AND DIGITAL CIRCUITS.
GROUP E : FIBER OPTIC CABLE
GROUP F : 120V-240V AC ARMORED POWER CABLE
GROUP G : 120V - 240V AC NON- ARMORED POWER CABLE

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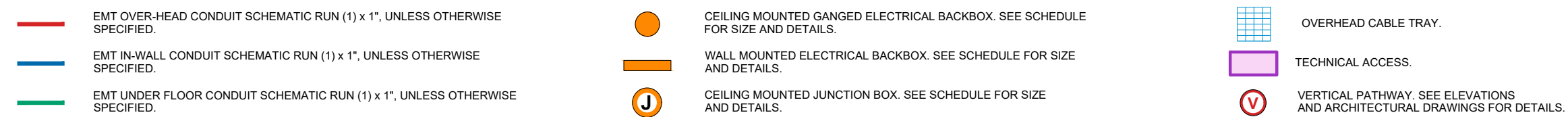
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Drawn By: JIPS

**AV Infrastructure
Notes**

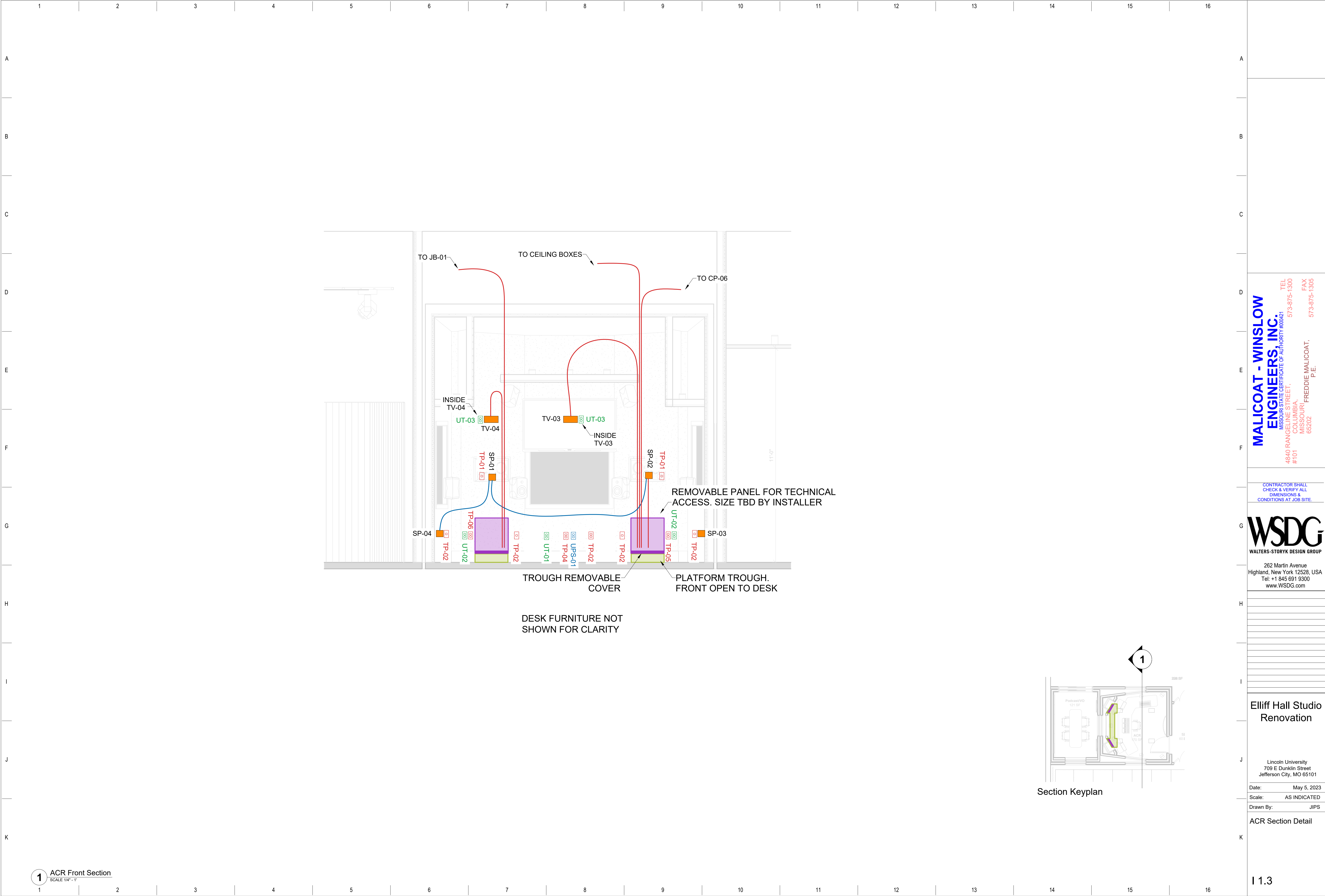


**MALICOAT - WINSLOW
ENGINEERS, INC.**
MISSOURI STATE CERTIFICATE OF AUTHORITY #000491
4840 RANGELINE STREET,
COLUMBIA,
MISSOURI 65202
TEL 573-875-1300
FAX 573-875-1305
P.E. FREDDIE MALICOAT.



Lincoln University
709 E Dunklin Street
Jefferson City, MO 65101

AV Backbox and Conduit Accommodation



MALICOAT - WINSLOW ENGINEERS, INC.
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CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS & CONDITIONS AT JOB SITE.

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Eliff Hall Studio Renovation

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Jefferson City, MO 65101

Date: May 5, 2023

Scale: AS INDICATED

Drawn By: JIPS

ACR Section Detail

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