

**MONTGOMERY COLLEGE - OFFICE OF PROCUREMENT**  
**MACKLIN TOWER MBI FINANCE LAB SUITE 100, ROCKVILLE CAMPUS**  
**RFP NO.: 620-011**  
**RFP CLOSING DATE AND TIME: APRIL 30, 2020 @ 2:00 PM**

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**ADDENDUM #4**  
**ISSUE DATE: April 27, 2020**

THIS ADDENDUM IS BEING ISSUED TO PROVIDE ANSWERS TO THE FOLLOWING QUESTIONS AND MAKE CHANGES TO THE RFP DOCUMENTS.

Item 4-1    Question:    Where is the location of the relevant fire alarm panel in which we will be making connections?

Answer:        The existing FACP is located off of the loading dock in room 092.

Item 4-2    Question:    Will MC be providing a restroom for the contractor team, or do they need to provide portable facilities?

Answer:        No, Contractor is responsible for providing port-a-johns for their workers to use during the project.

Item 4-3    Question:    Where can the GC store materials in the building, and outside of the building?

Answer:        The College will allow the Contractor to store materials and equipment in MT 002. The College will also make space available in the loading dock area for the Contractor to place one Sea Container during the execution of the project.

Item 4-4    Question:    Can you clarify add alternate # 1: Macklin Tower Library HVAC? Set of plans do not shown drawings A 403 A, E 304 A, P 401 A.

Answer:        The project add alternate refers to the scope of work located in the library mechanical rooms of Macklin Tower. Sheets M6.01, M6.02, M6.03 document the scope of work for this add alternative. This add alternate included the installation of new valves and fittings to serve the existing air handling unit serving the library. The add alternate also includes providing new insulation on the affected piping. The mentioned sheets A 403 A, E 304 A, P 401 A are not applicable sheets to the contract documents.

Item 4-5    Question:    Can you clarify alternate prices shown in the plan M1.02, note # 6?

Answer:        Note #6 on M1.02 refers to Sheets M6.01, M6.02 and M6.03 for information related to the add alternate scope of work.

Item 4-6    Specification Section 22 05 14 – Pipe, Tube and Fittings for Plumbing Systems

- Delete “2. Domestic water” from Specification Section 22 05 14, 2.04, A.
- Add the following to Specification Section 22 05 14, 2.01: C. T-Drills, Pro-Press, Sharkbite, Compression Fittings, etc. shall not be used. Domestic water piping shall be copper, a minimum ¾” with sweat fittings.
- Delete Specification Section 22 05 14, 3.04 – Radiographic (X-Ray) Testing.

- Item 4-7 Specification Section 22 05 15 – Piping Specialties for Plumbing Systems
- Delete Specification Section 22 05 15, 2.07 – Flexible Connectors.
- Item 4-8 Specification Section 22 05 23 – Valves for Plumbing Piping
- Replace ‘standard port’ with ‘Full Port’ in Specification Section 22 05 23, 2.02, B, 1.
- Item 4-9 Specification Section 22 11 16 – Domestic Water Piping
- Add the following to Specification Section 22 11 16, 2.03: D. Minimum pipe size shall be ¾”.
- Item 4-10 Specification Section 23 01 00 – Basic HVAC Requirements
- Delete Specification Section 23 01 00, 1.25, C, 1 Heating Plant
  - Delete Specification Section 23 01 00, 1.25, C, 2 Cooling Plant
- Item 4-11 Specification Section 23 05 14 – Pipe, Tube and Fittings for HVAC Systems
- Delete Specification Section 23 05 14, 3.02, A, 1.
  - Add the following to Specification Section 23 05 14, 3.02, A: 4. T-Drills, Pro-Press, Sharkbite, Compression Fittings, etc. shall not be used. HVAC piping 2” and smaller shall be copper with sweat fittings. HVAC piping 2.5” and larger shall be welded carbon steel w/ flanges. Threaded fittings shall not be used.
  - Delete Specification Section 23 05 14, 3.04 – Radiographic (X-Ray) Testing
- Item 4-12 Specification Section 23 05 23 – Valves for HVAC Piping
- Add the following to Specification Section 23 05 23, 1.01, B, 1. Drain Valves Shall be full port ball valves with hose end connection.
  - Add the following to Specification Section 23 05 23, 2.02, A, 1. Drain Valves Shall be full port ball valves with hose end connection.
  - Add the following to Specification Section 23 05 23, 3.01. G. Do not remove handles or actuator heads.
- Item 4-13 Specification Section 23 09 00 – Automatic Control Systems
- Add the following to Specification Section 23 05 23, 2.14, H, 1. Automatic valves shall be high performance valves and actuators by Belimo.
- Item 4-14 Specification Section 23 31 14 – Valves for HVAC Piping
- Remove ‘Internal’ from Specification Section 23 31 14, 2.03, A. Add ‘Interstitial’ to section 23 31 14, 2.03, A.
- Item 4-15 Drawing General
- Owners Sustainability Statement has been added to the drawing and specifications cover sheet.
- Item 4-16 Drawing Architectural A0.12 – Partition Types
- Existing Curtain Wall Detail – Storefront Connection has been modified.
- Item 4-17 Drawing Architectural A4.01 – Enlarge Plans and Elevations
- Section 1 has been updated to show extent of ticker along storefront.
- Item 4-18 Drawing Architectural A6.01 – Door Schedules
- Door schedules have been modified to include additional information regarding door 006 and 007.

- Item 4-19 Drawing Architectural A6.07 – Finish Schedule and Details
  - Transition Detail – GWB Soffit has been modified.
  
- Item 4-20 Drawing Mechanical, M9.01 – Mechanical Schedules
  - AHU filter efficiencies have been revised to reflect MERV 8 and MERV 13 efficiencies.
  
- Item 4-21 Drawing Plumbing, P2.01 – Mechanical Schedules
  - Lawler Model 570 point of use thermostatic mixing valve has been specified to serve S-1.
  - 1.5 GPM aerator has been specified for fixture S-1.
  - Minimum domestic water pipe size increased to ¾”.

**Index of Attachments to Addendum**

**Specification Sections or Portions Reissued in Entirety**

NONE

**Drawings Reissued in Entirety**

- COVER PAGE
- A0.12 – PARTITION TYPES
- A4.01 – ENLARGED PLANS AND ELEVATIONS
- A6.01 – DOOR SCHEDULES
- A6.07 – FINISH SCHEDULE AND DETAILS
- M9.01 – MECHANICAL SCHEDULES
- P2.01 – FIRST FLOOR PLAN – PLUMBING NEW WORK

**Sketches**

NONE

**Items Issued for Informational Purposes**

NONE



**Patrick Johnson, MBA**  
Director of Procurement

Please **sign** below to acknowledge receipt of this Addendum and return with the **Technical Proposal submission**. Failure to return this Acknowledgement of Addendum may deem a proposal nonresponsive.

**NOTE: ACKNOWLEDGEMENT OF RECEIPT OF RFP ADDENDA WILL NOT BE ACCEPTED BY FACSIMILE OR E-MAIL.**

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed/Typed Signature



# MACKLIN TOWER

## MBI FINANCE LAB SUITE 100

Rockville Campus  
Building No. 206



QUINN EVANS  
ARCHITECT

100 N CHARLES STREET  
4TH FLOOR  
BALTIMORE, MD 21201  
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BURDETTE, KOEHLER, MURPHY & ASSOCIATES, INC.  
MECHANICAL/ ELECTRICAL/ PLUMBING ENGINEERS

6300 BLAIR HILL LANE  
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BALTIMORE, MD 21209  
PHONE: 410-323-0600  
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A+F ENGINEERS  
STRUCTURAL ENGINEERS

1112 16TH STREET, NW  
#920  
WASHINGTON, DC 20036  
PHONE: 202-628-1600

### BKM PROJECT NO. 19106.01

### 100% CONSTRUCTION DOCUMENTS

### MARCH 06, 2020

DRAWING INDEX			
DWG. No.	DESCRIPTION	DWG. No.	DESCRIPTION
CS	COVER SHEET		
G0.11	LIFE SAFETY PLANS		
	STRUCTURAL DRAWINGS		
S0.01	STRUCTURAL GENERAL NOTES & SPECIAL INSPECTIONS SCHEDULE		
S1.01	STRUCTURAL PLAN & ELEVATIONS		
S2.01	STRUCTURAL SECTIONS & DETAILS		
S2.02	STRUCTURAL SECTIONS & DETAILS		
	ARCHITECTURAL DRAWINGS		
A0.01	LEGENDS, SYMBOLS, ABBREVIATIONS		
A0.12	PARTITION TYPES		
AD1.01	DEMOLITION PLAN - GROUND FLOOR		
AD1.02	DEMOLITION PLAN - FIRST FLOOR		
AD1.11	DEMOLITION RCP - GROUND FLOOR		
AD1.12	DEMOLITION RCP - FIRST FLOOR		
A1.01	GROUND FLOOR PLAN		
A1.02	FIRST FLOOR PLAN		
A1.12	FIRST FLOOR PLAN RCP		
A4.01	ENLARGED PLANS & ELEVATIONS		
A6.01	DOOR SCHEDULES		
A6.03	FINISH PLAN & SCHEDULE		
A6.07	FINISH SCHEDULE & DETAILS		
A6.21	SIGNAGE TYPES & DETAILS - SYSTEM OVERVIEW & TYPICAL REQUIREMENTS		
			MECHANICAL DRAWINGS
		M0.01	MECHANICAL LEGEND ABBREVIATIONS & GENERAL NOTES
		M1.01	GROUND FLOOR PLAN - MECHANICAL - DEMOLITION
		M1.02	FIRST FLOOR PLAN - MECHANICAL - DEMOLITION
		M2.01	GROUND FLOOR PLAN - DUCTWORK - NEW WORK
		M2.02	FIRST FLOOR PLAN - DUCTWORK - NEW WORK
		M3.01	GROUND FLOOR PLAN - HVAC PIPING - NEW WORK
		M3.02	FIRST FLOOR PLAN - HVAC PIPING - NEW WORK
		M4.01	PART GROUND FLOOR PLAN - MECHANICAL - DEMOLITION & NEW WORK
		M5.01	MECHANICAL SECTIONS
		M6.01	HVAC PIPING DIAGRAMS - DEMOLITION
		M6.02	HVAC PIPING DIAGRAMS - NEW WORK
		M6.03	HVAC PIPING DIAGRAMS - NEW WORK - ALTERNATE
		M7.01	AUTOMATIC TEMPERATURE CONTROLS
		M8.01	MECHANICAL DETAILS
		M9.01	MECHANICAL SCHEDULES
			PLUMBING DRAWINGS
		P2.01	FIRST FLOOR PLAN - PLUMBING - NEW WORK
			ELECTRICAL DRAWINGS
		E0.01	ELECTRICAL LEGEND, ABBREVIATIONS & GENERAL NOTES
		E0.02	LIGHTING FIXTURE SCHEDULE, SEQUENCE OF OPERATIONS & LEGEND
		E1.01	BASEMENT FLOOR PLAN - ELECTRICAL
		E1.02	GROUND FLOOR PLAN - ELECTRICAL - DEMOLITION
		E1.03	FIRST FLOOR PLAN - ELECTRICAL - DEMOLITION
		E1.04	SECOND FLOOR PLAN - ELECTRICAL
		E2.01	FIRST FLOOR PLAN - POWER AND SPECIAL SYSTEMS - NEW WORK
		E3.01	FIRST FLOOR PLAN - LIGHTING - NEW WORK
		E4.01	MECHANICAL ROOM PART PLANS - POWER - DEMOLITION AND NEW WORK
		E5.01	ELECTRICAL DETAILS
		E5.02	ELECTRICAL DETAILS
		E6.01	ELECTRICAL PANEL SCHEDULES

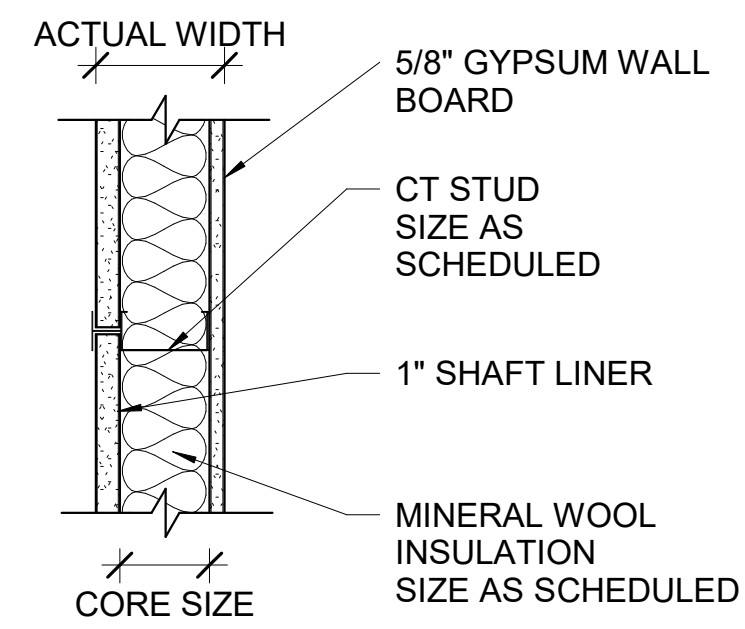
**OWNER'S SUSTAINABILITY STATEMENT**

AS GOOD STEWARDS, IT IS MONTGOMERY COLLEGE'S GOAL TO FURNISH AND MAINTAIN SUSTAINABLE FACILITIES, WHICH ARE SAFE, RELIABLE, LIFE CYCLE COST EFFECTIVE, ENVIRONMENTALLY FRIENDLY, RESILIENT AND CONFORM TO OWNER'S PROJECT REQUIREMENTS (OPR). THESE FACILITIES EXIST TO PROVIDE A QUALITY BUILT ENVIRONMENT WHICH ENHANCES THE LEARNING EXPERIENCE AND CONTRIBUTES TO STUDENT SUCCESS. TO ACHIEVE THIS GOAL MONTGOMERY COLLEGE EMBRACES A TOTAL QUALITY PROCESS WHICH RELIES ON THE VISION, TALENTS, AND COLLABORATION OF ALL INDIVIDUALS INVOLVED OR AFFECTED BY THIS PROJECT.

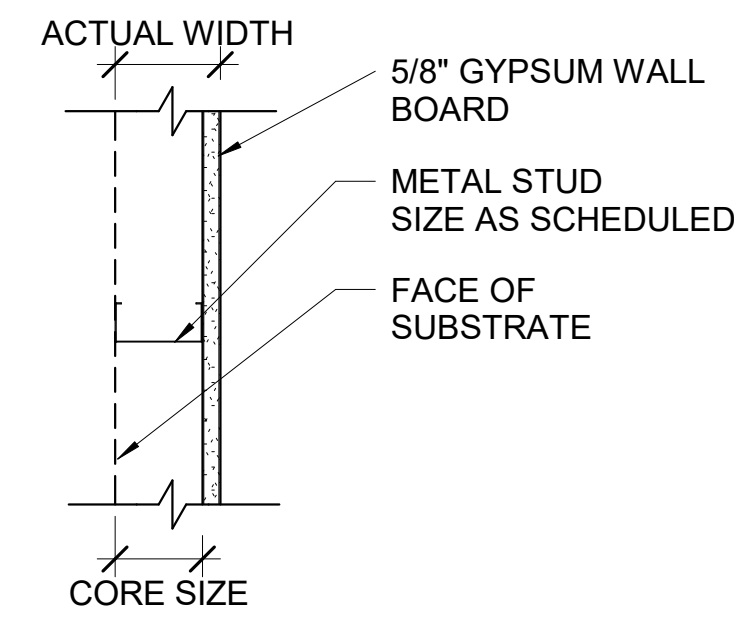
REV. 2, JANUARY 30, 2019

**PROJECT ALTERNATES**

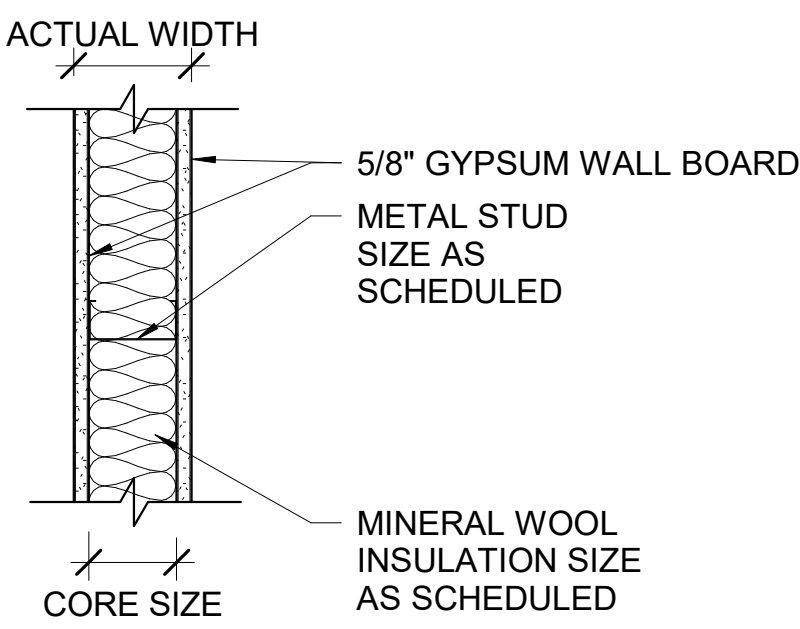
ADD ALTERNATE - PROVIDE HVAC PIPING MODIFICATION TO AIR HANDLING UNIT EQUIPMENT SERVING LIBRARY.



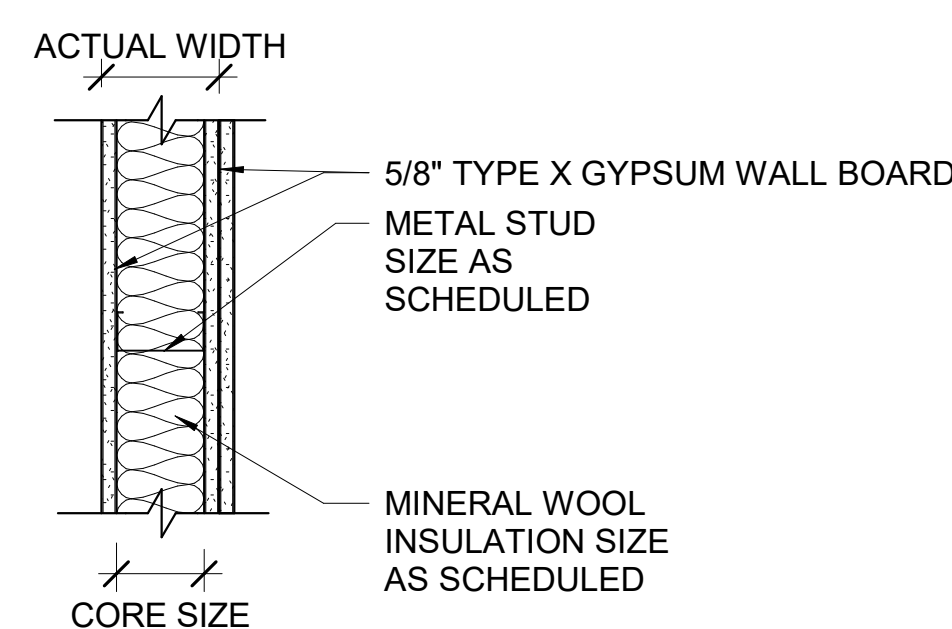
PARTITION - C1x1						
TYPE	CORE SIZE	ACTUAL WIDTH	UL FIRE TEST	STC	DETAILS	
					TOP	BOTTOM
C1B1	4" CT	4 1/2"	U469	39-42		



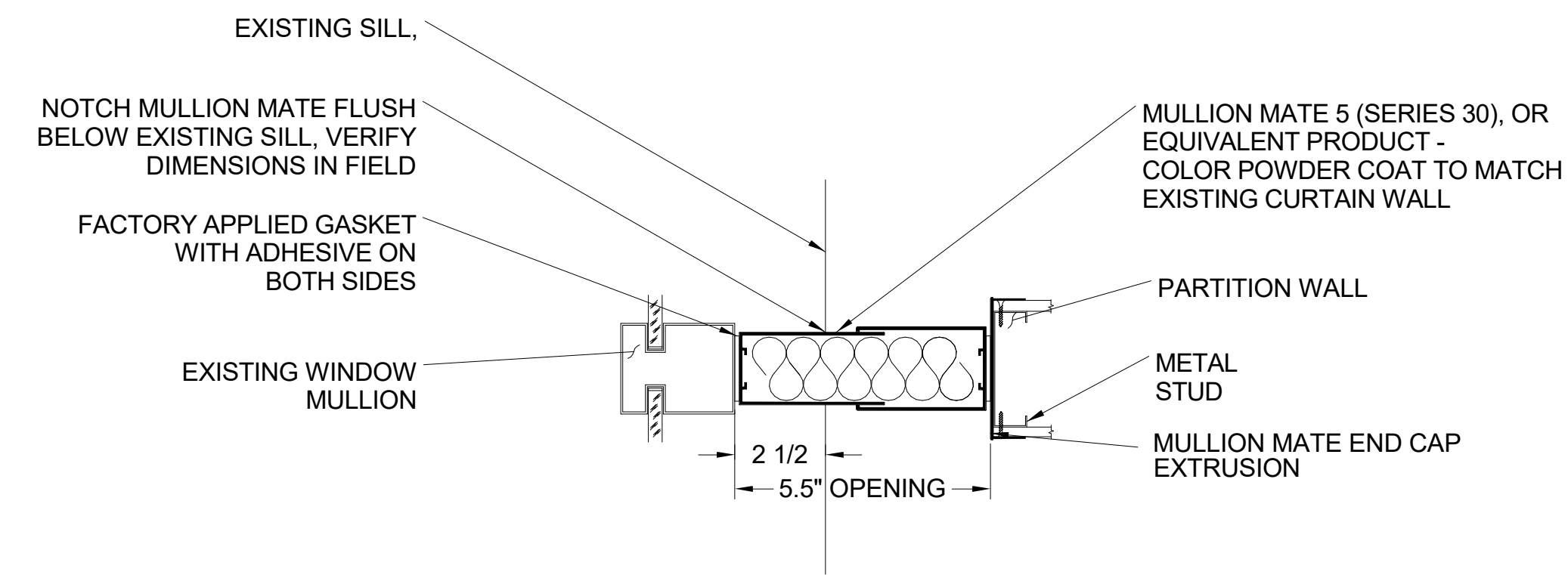
PARTITION - S2						
TYPE	CORE SIZE	ACTUAL WIDTH	UL FIRE TEST	STC	DETAILS	
					TOP	BOTTOM
S2A	1 5/8"	2 1/2"	NA	NA		
S2C	1 5/8"	4 1/2"	NA	NA		



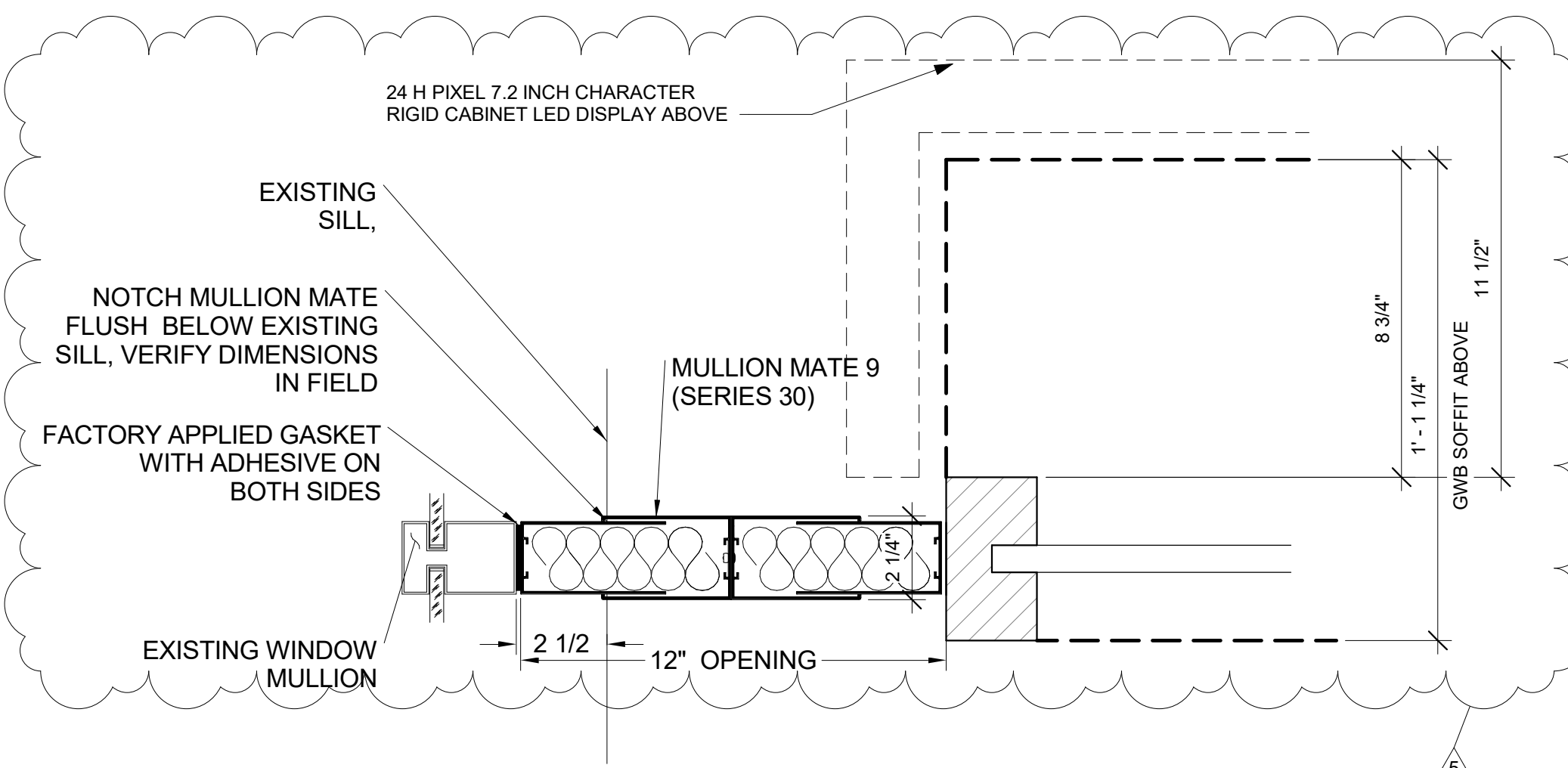
PARTITION - S1						
TYPE	CORE SIZE	ACTUAL WIDTH	UL FIRE TEST	STC	DETAILS	
					TOP	BOTTOM
S1C	3 5/8"	5"	NA	NA		



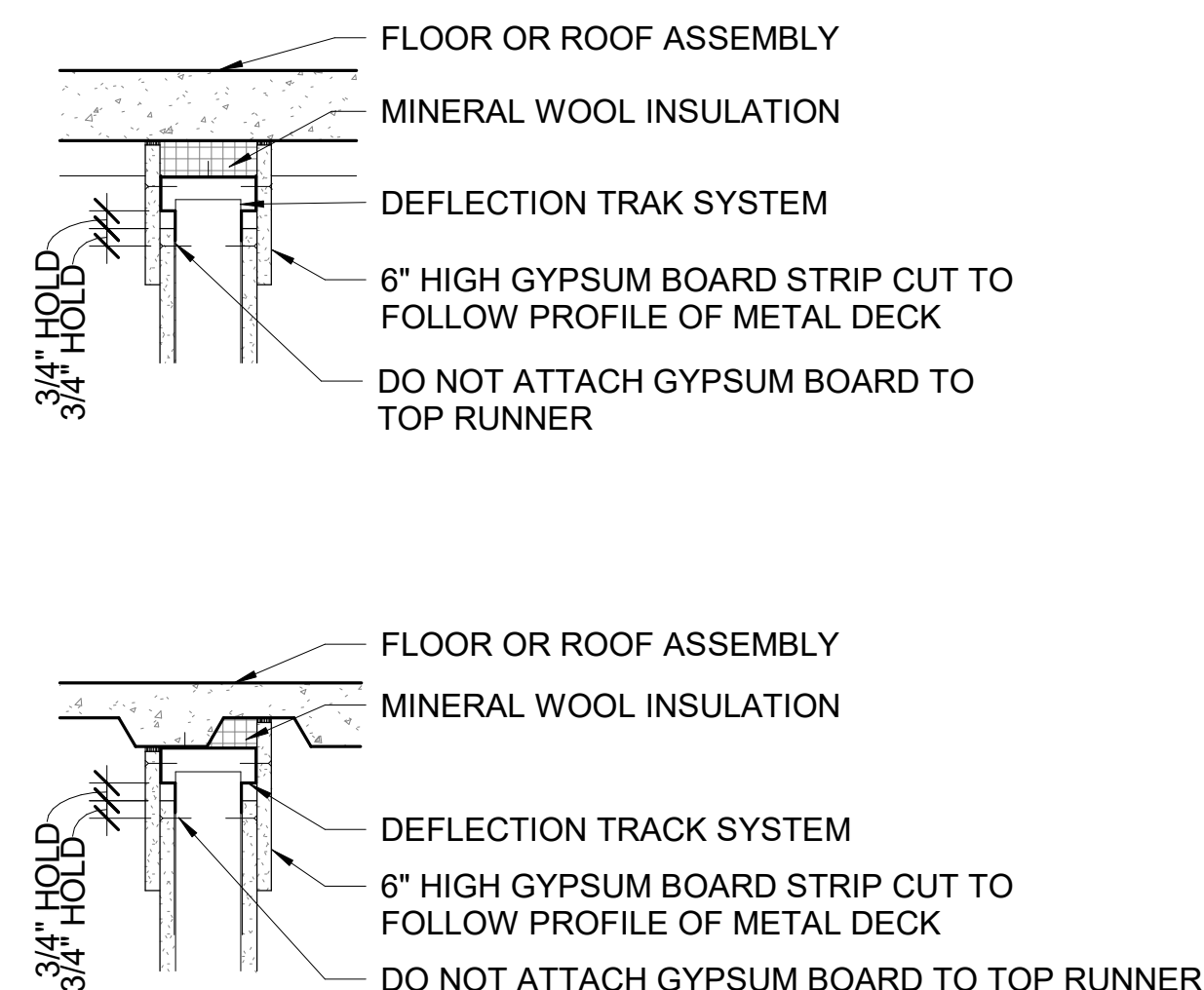
PARTITION - S1x1						
TYPE	CORE SIZE	ACTUAL WIDTH	UL FIRE TEST	STC	DETAILS	
					TOP	BOTTOM
S1C1	3 5/8"	5 1/2"	U419	55		



1  
A012  
EXISTING CURTAIN WALL DETAIL - STUD CONNECTION  
3" = 1'-0"



2  
A012  
EXISTING CURTAIN WALL DETAIL - STOREFRONT CONNECTION  
3" = 1'-0"



4  
A012  
STUD PARTITION - DEFLECTION TRACK  
1 1/2" = 1'-0"

**GENERAL PARTITION NOTES:**

- ALL PARTITIONS SHEATHING LAYERS TO EXTEND TO STRUCTURE OR DECK ABOVE UNLESS NOTED OTHERWISE
  - SEE PLANS FOR LEGEND & PARTITIONS WITH VARIED EXTENT
  - SEE LIFE SAFETY PLANS FOR LEGEND & FIRE RATING EXTENT/DEFINITION
- PARTITION TYPES DO NOT DEPICT FINISHES TYPICALLY
  - SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR EXTENT OF FINISHES
  - SEE SPECIFIC PARTITION TYPES INCORPORATING FINISH AND BACKUP
- SOUND ISOLATING FRAMED PARTITIONS (STC RATING IDENTIFIED IN SCHEDULE) ARE TO INCLUDE
  - PERIMETER ACOUSTIC SEALANT BEAD FOR FULL DEPTH OF SHEATHING LAYER ADJACENT TO FRAMING EACH SIDE:
    - BASE: SEAL BETWEEN BOTTOM OF SHEATHING TO STRUCTURAL DECK
    - TOP: SEAL BETWEEN TOP OF SHEATHING TO STRUCTURAL DECK OR RATED CEILING SHEATHING WHERE APPLICABLE
  - FULL FRAMING DEPTH SOUND ATTENUATION BATT FOR FULL HEIGHT OF PARTITION

PROJECT NAME:

**Montgomery College**



Central Administration  
Office of Facilities  
9221 Corporate Boulevard  
Rockville, MD 20850  
Telephone: 240-567-7363

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Baltimore, MD 21201 Telephone: 240-567-7363

SEAL:



PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 13613  
EXPIRATION DATE: 09/08/2021

ISSUED FOR:

DATE:	DESCRIPTION:
04/10/2020	Addendum 3
4/24/2020	Addendum 5

PROJECT NO: BKM # 19106.01

SCALE: AS NOTED

DRAWN BY: NM

CHECKED BY: BO

DATE: 03/06/2020

SHEET TITLE: PARTITION TYPES

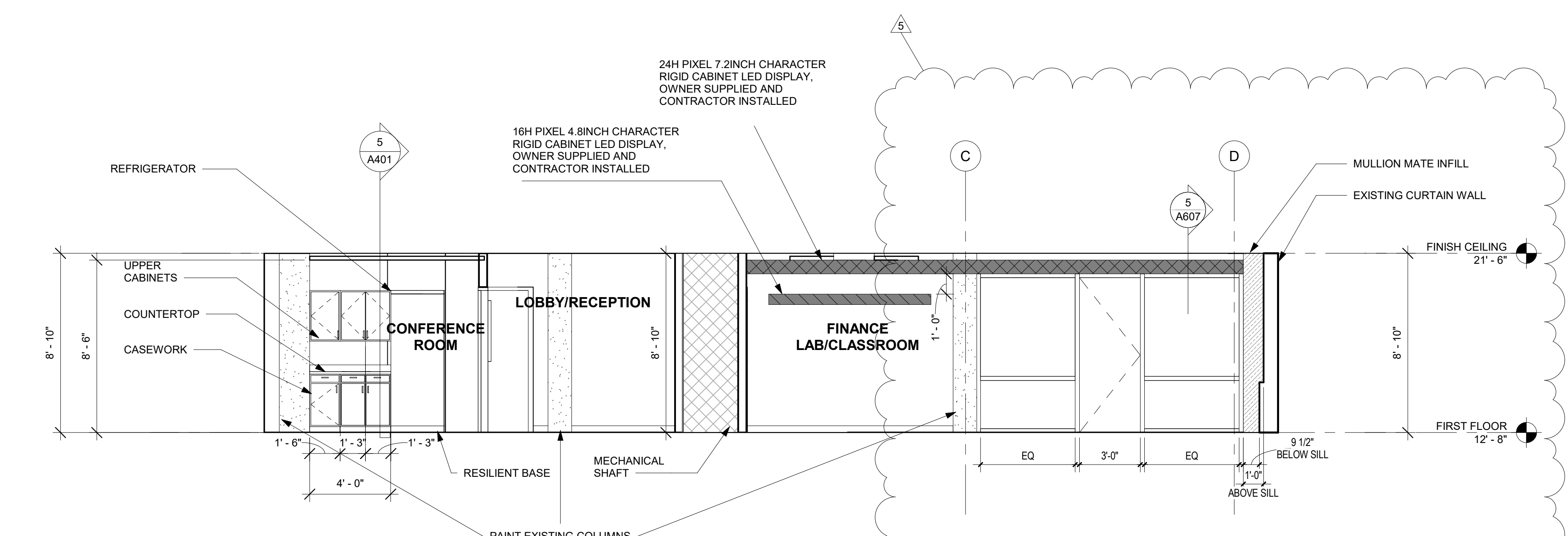
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**A012**

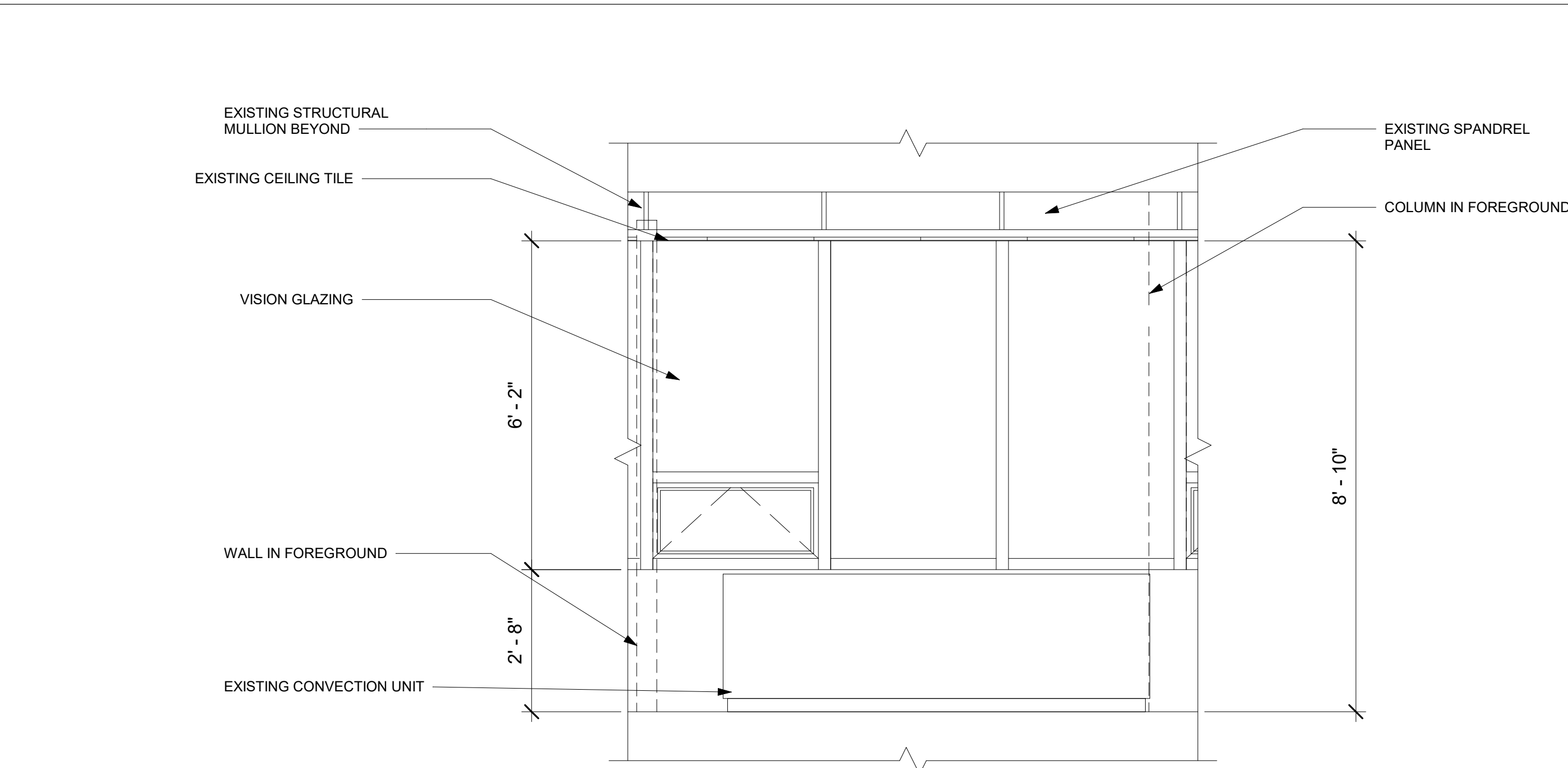
BKM# 19106.01



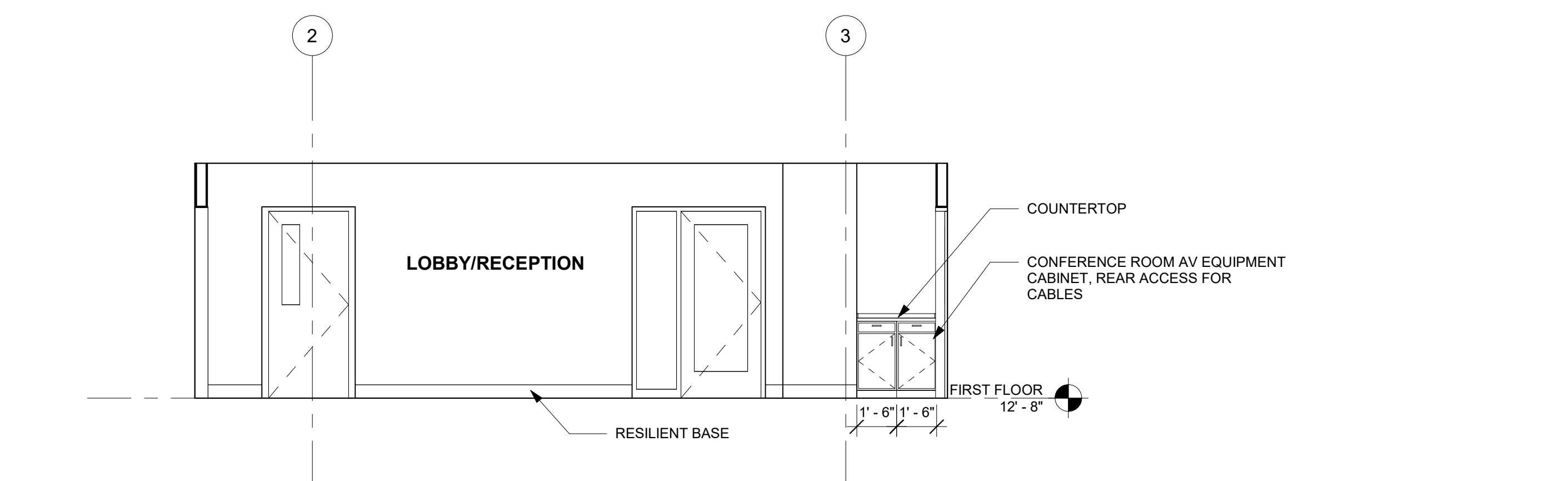
**1** FIRST FLOOR FURNITURE PLAN - Callout 1  
 1/4" = 1'-0" REFERRED FROM: A401



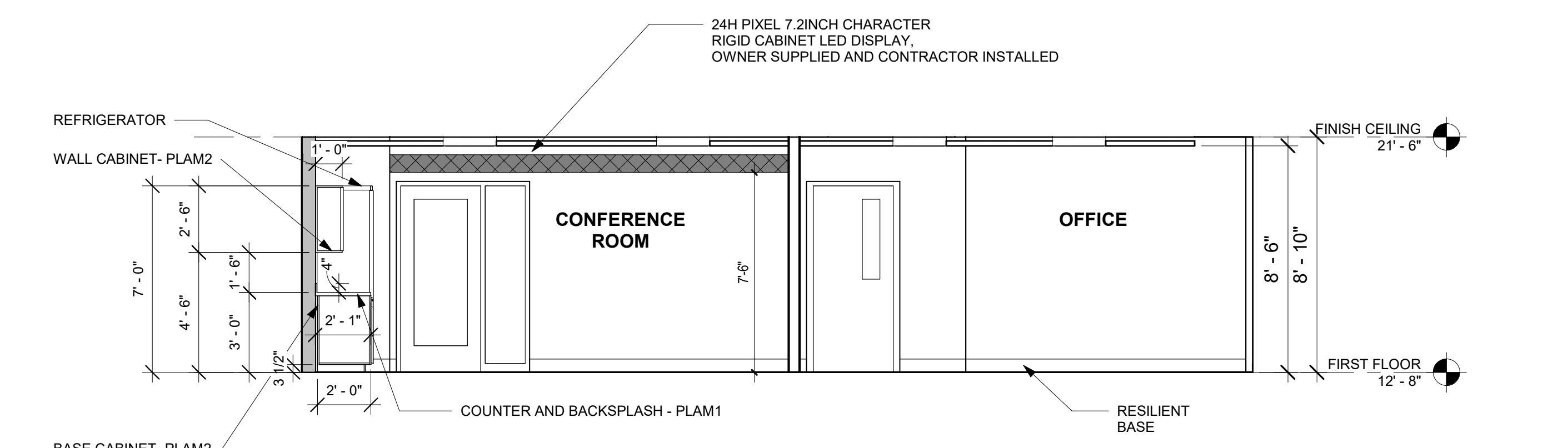
**2** Section 1  
 1/4" = 1'-0" REFERRED FROM: A401



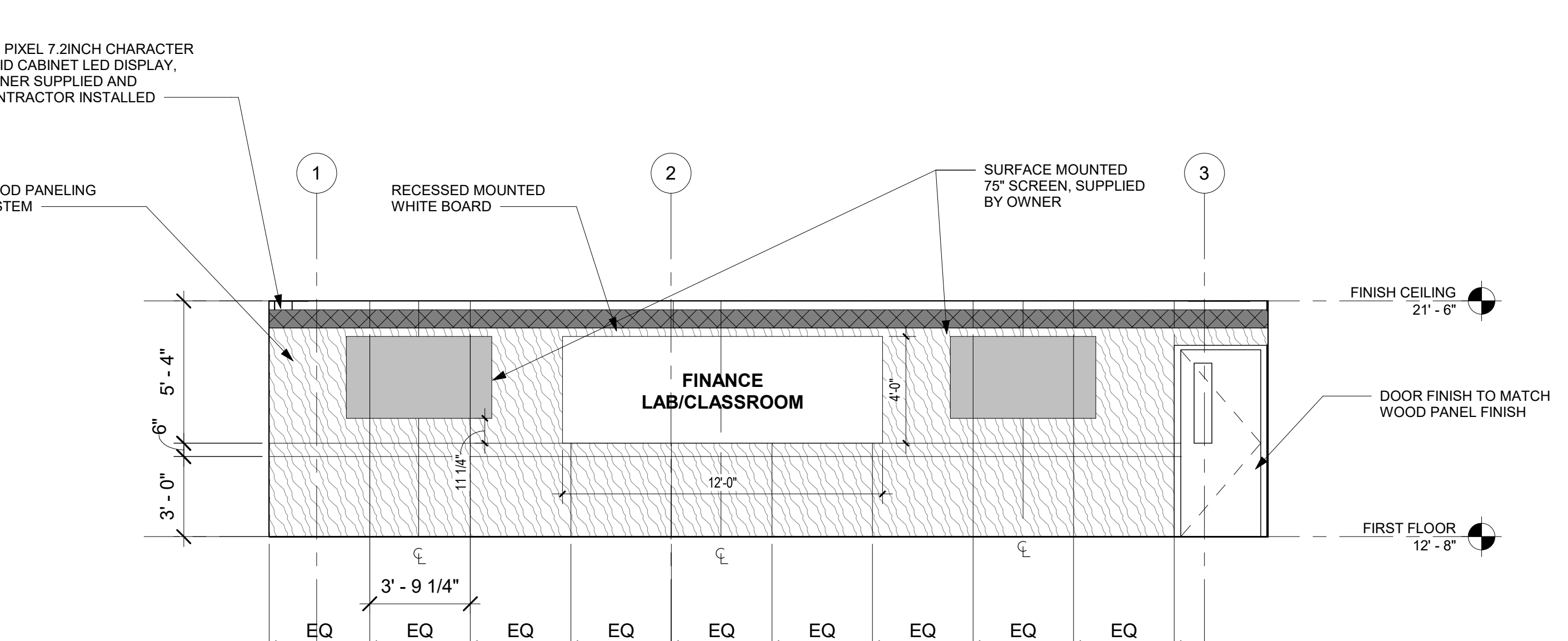
**4** EXISTING WINDOW ELEVATION  
 1/2" = 1'-0" REFERRED FROM: A401



**6** Section 4  
 1/4" = 1'-0" REFERRED FROM: A401



**5** Section 3  
 1/4" = 1'-0" REFERRED FROM: A401



**3** Section 2  
 1/4" = 1'-0" REFERRED FROM: A401

**bkm**  
 Burdette, Koehler, Murphy & Associates, Inc.  
 Mechanical / Electrical Engineers  
 5300 Blair Hill Lane, Suite 400 | Baltimore, Maryland 21229  
 P: 410.323.1650 | www.bkma.com

PROJECT NAME:  
**Montgomery College**

Central Administration  
 Office of Facilities  
 9221 Corporate Boulevard  
 Rockville, MD 20850  
 Telephone: 240-567-7363

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 LICENSE NO. 13613  
 EXPIRATION DATE: 09/08/2021

ISSUED FOR:

DATE:	DESCRIPTION:
03/25/2020	Addendum 1
04/10/2020	Addendum 3
4/24/2020	Addendum 5

PROJECT NO: BKM # 19106.01

SCALE: AS NOTED

DRAWN BY: NM

CHECKED BY: BO

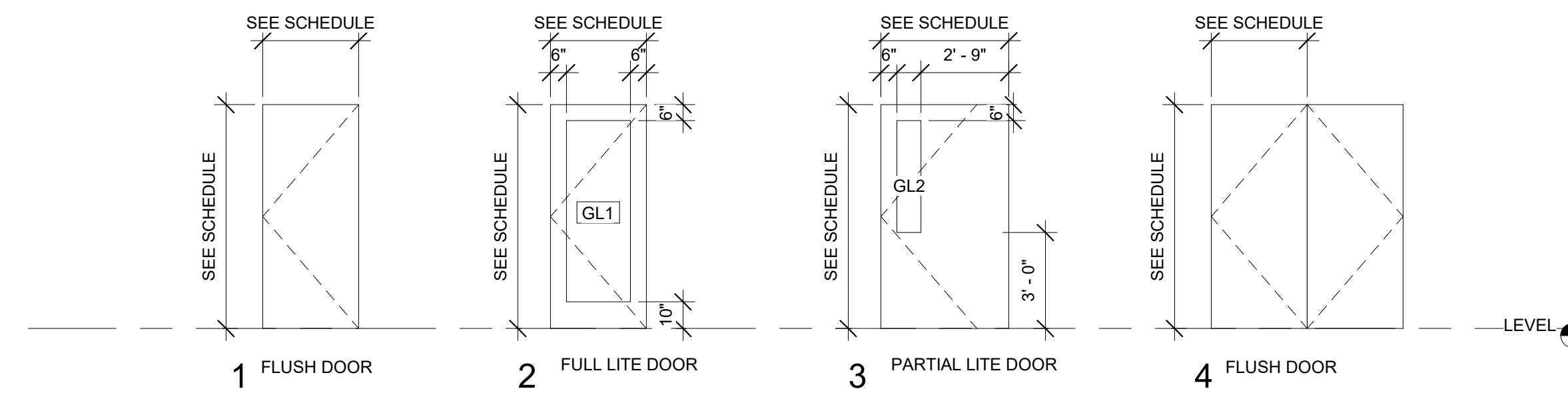
DATE: 03/06/2020

SHEET TITLE: ENLARGED PLANS AND ELEVATIONS

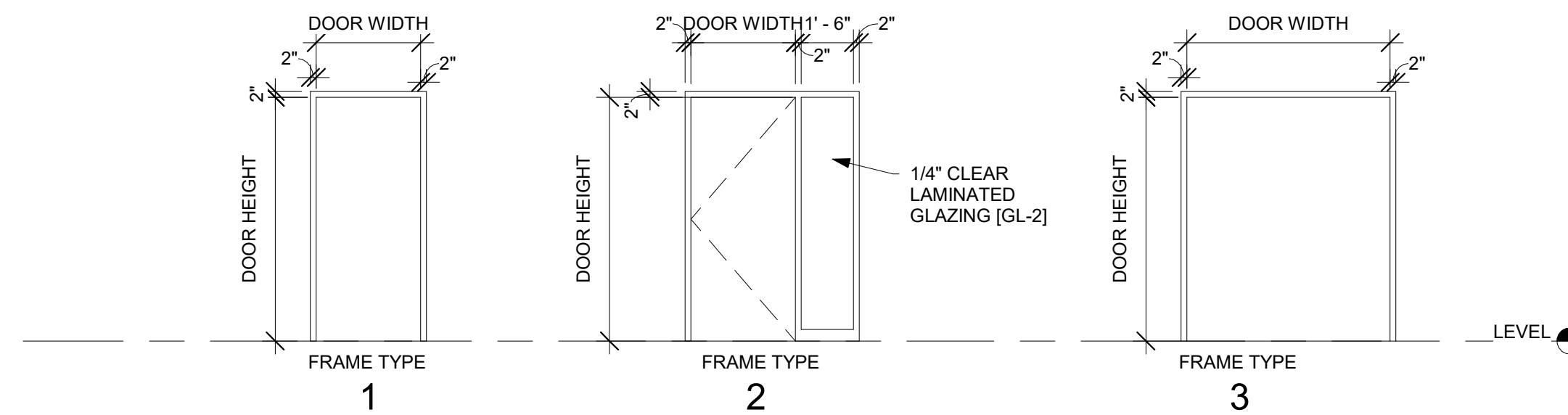
DRAWING NO:  
**A401**  
 BKM# 19106.01

PLOTTED BY: JAMES WISNER | 11/15/2019 9:26 AM  
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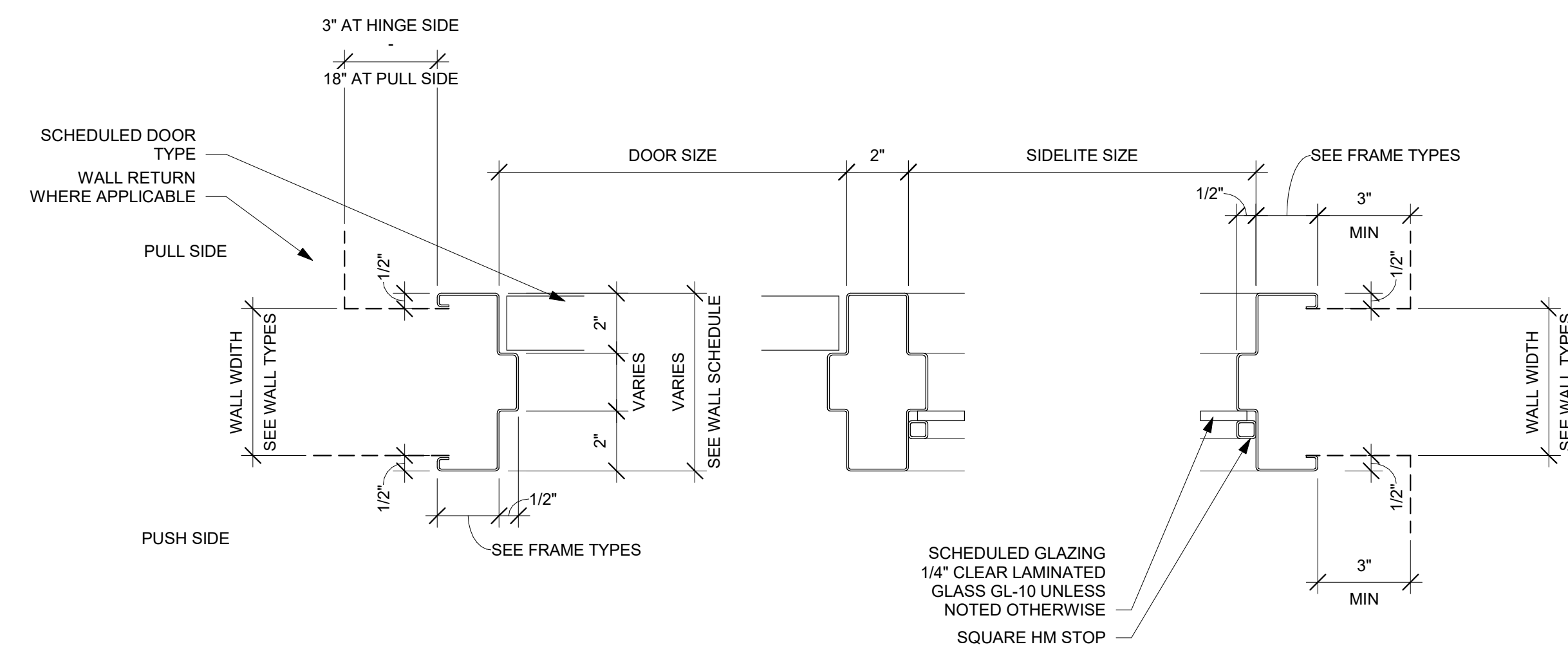
DOOR NUMBER	LOCATION	DOOR SIZE			DOOR TYPE	DOOR FINISH	FRAME TYPE	Frame Material	FRAME FINISH	FIRE RATING	HARDWARE SET	NOTES
		W	H	T								
GROUND LEVEL												
007	MECHANICAL ROOM	6' - 0"	7' - 0"	2"	4	WD	3	HM	PTD	-		45 MIN RATED
FIRST FLOOR												
001	LOBBY/RECEPTION	3' - 0"	7' - 0"	2"	3	WD / GL	1	HM	PTD		1	
002	CONFERENCE ROOM	3' - 0"	7' - 0"	2"	2	WD / GL	2	HM	PTD		1	
003	OFFICE	3' - 0"	7' - 0"	2"	3	WD / GL	1	HM	PTD		1	
004	OFFICE	3' - 0"	7' - 0"	2"	3	WD / GL	1	HM	PTD		1	
005	LOBBY/RECEPTION	3' - 0"	7' - 0"	2"	3	WD / GL	1	HM	PTD		3	
006	FINANCE LAB/CLASSROOM	3' - 0"	7' - 7 1/2"	4 1/2"	STOREFRONT	GL		ALUM	ANODIC			
Grand total: 7												



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



DOOR HOLLOW METAL FRAME TYPES - TYPICAL  
1/4" = 1'-0"



HOLLOW METAL PROFILES  
3" = 1'-0"

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LICENSE NO. 13613  
EXPIRATION DATE: 09/08/2021

ISSUED FOR:

DATE: 4/24/2020  
DESCRIPTION: Addendum 5

PROJECT NO: BKM# 19106.01

SCALE: AS NOTED

DRAWN BY: NM

CHECKED BY: BO

DATE: 03/06/2020

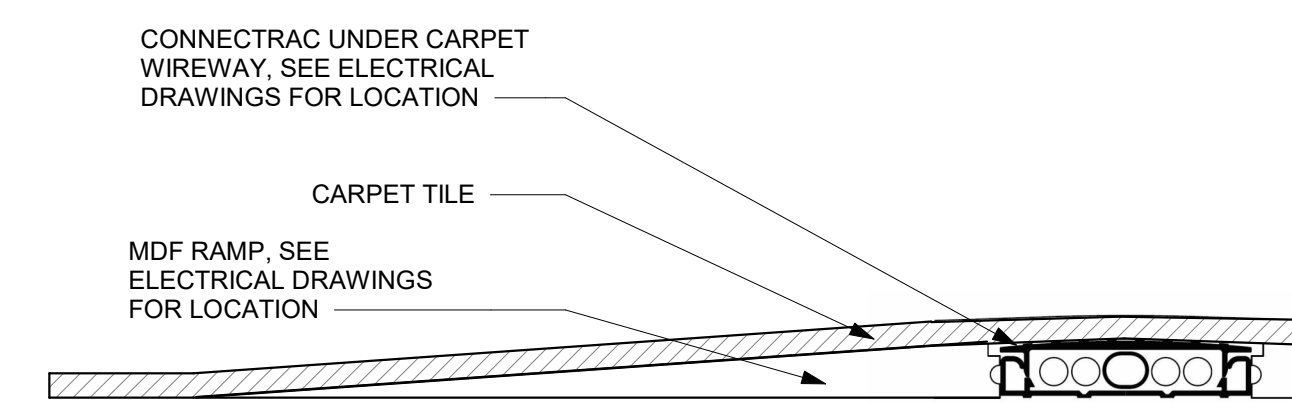
SHEET TITLE: DOOR SCHEDULES

DRAWING NO:

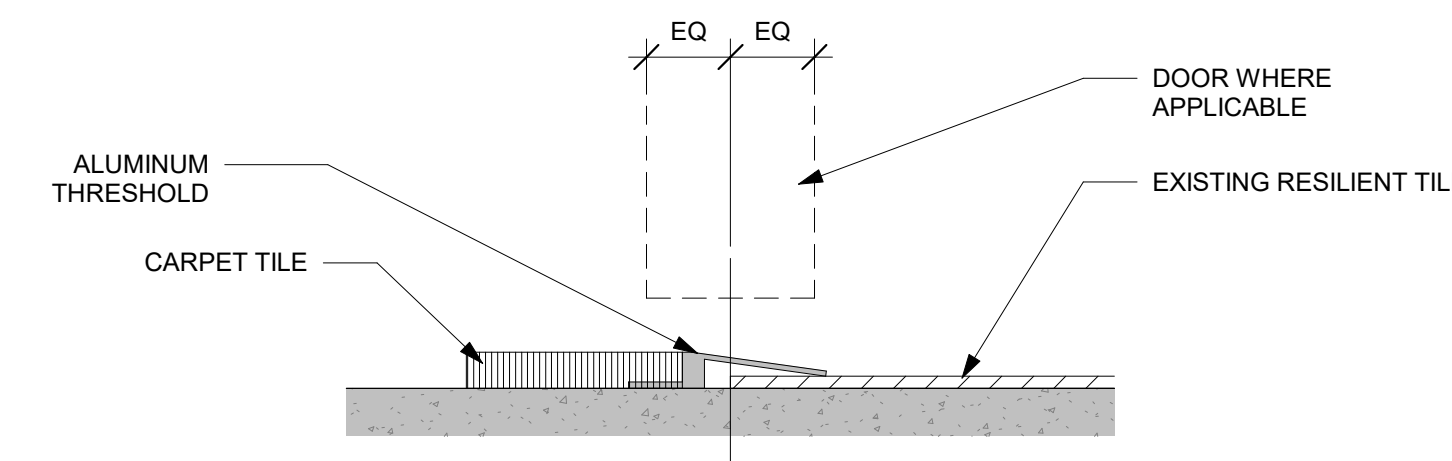
**A601**

BKM# 19106.01

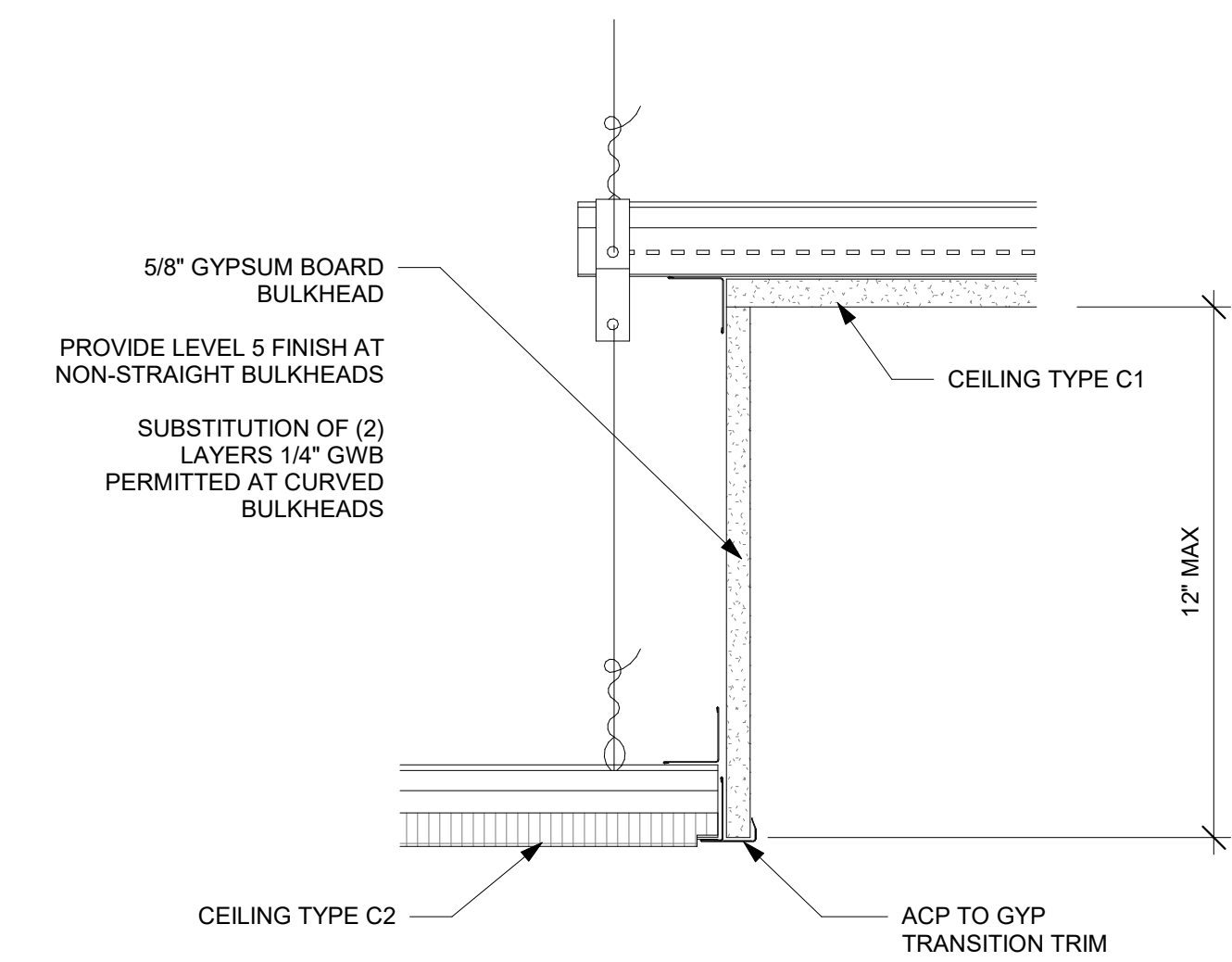
MATERIAL SCHEDULE									
ITEM MARK	ITEM DESCRIPTION	MANUFACTURER	STYLE NAME/NO.	COLOR/PATTERN	FINISH	SIZE	REMARKS	FLAME SPREAD	SMOKE DEVELOPED
AC-1	ACOUSTICAL CEILING TILE	ARMSTRONG	SQUARE MEDIUM TEXTURE #1830 AND #1831		FINE FISSURED	24" x 48" x 5/8"	SUSPENSION TRACK TYPE SS-1, SEE SPECS	25 OR LESS	50 OR LESS
AC-2	ACOUSTICAL CEILING TILE	ARMSTRONG	SQUARE MEDIUM TEXTURE #1830 AND #1831		FINE FISSURED	24" x 24" x 5/8"	SUSPENSION TRACK TYPE SS-1, SEE SPECS	25 OR LESS	50 OR LESS
CPT1	CARPET TILE FLOORING	KINETEX	TIMBER	1923 ASPEN	-	12" x 48"		CLASS 1	450 OR LESS
CPT2	CARPET TILE FLOORING	KINETEX	PROPEL II	1702 GUIDE	-	12" x 48"		CLASS 1	450 OR LESS
VB1	RESILIENT BASE	ROPPE	-	123 CHARCOAL	-	6" x 24", 12" x 24"	4" HIGH BULLNOSE BASE	0.45 W/cm2 OR MORE CLASS 1	450 OR LESS
PT-1	PAINT	BENJAMIN MOORE	#OC-62	BABY'S BREATH	EGGSHELL	-	WALL PAINT - TYP		
PT-2	PAINT	BENJAMIN MOORE	-	-	EGGSHELL	-	ACCENT WALLS - COLOR TO MATCH PANTONE 2617		
PT-3	PAINT	BENJAMIN MOORE	#OC-66	SNOW WHITE	FLAT FINISH	-	CEILING PAINT - TYP		
PLAM1	COUNTER PLAM	NEVAMAR	EASY ELEGANCE	VA5002T	-	-	-	55-70	95-130
PLAM2	CABINET PLAM	NEVAMAR	NEUTRAL GRAY	S6012T	-	-	-	55-70	95-130
PLAM1	BACKSPASH	NEVAMAR	EASY ELEGANCE	VA5002T	-	-	-	55-70	95-130



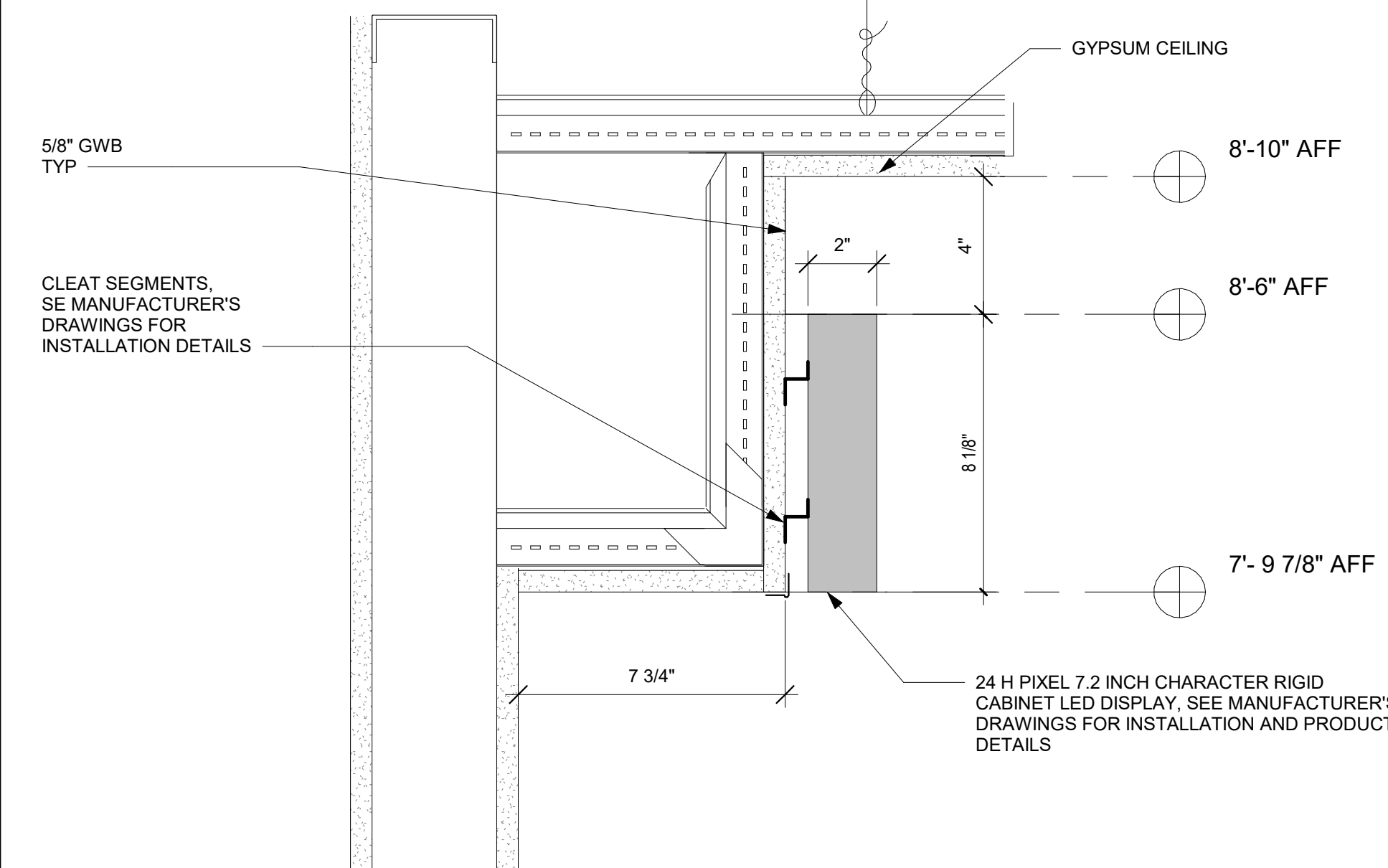
DETAIL -CONNECTRAC UNDER CARPET WIREWAY  
6" = 1'-0"



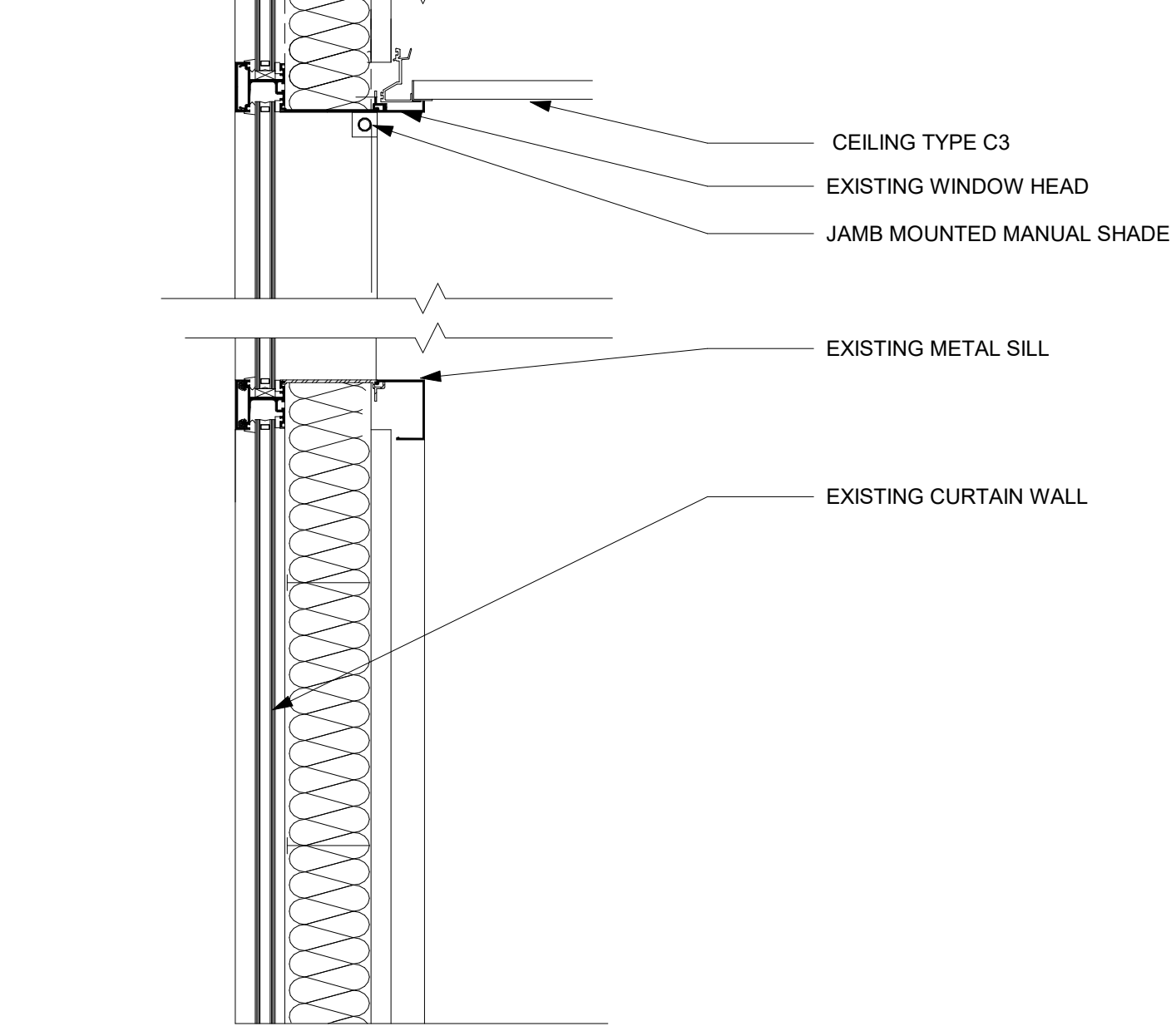
DETAIL - RESILIENT TILE TO CARPET TRANSITION  
6" = 1'-0"



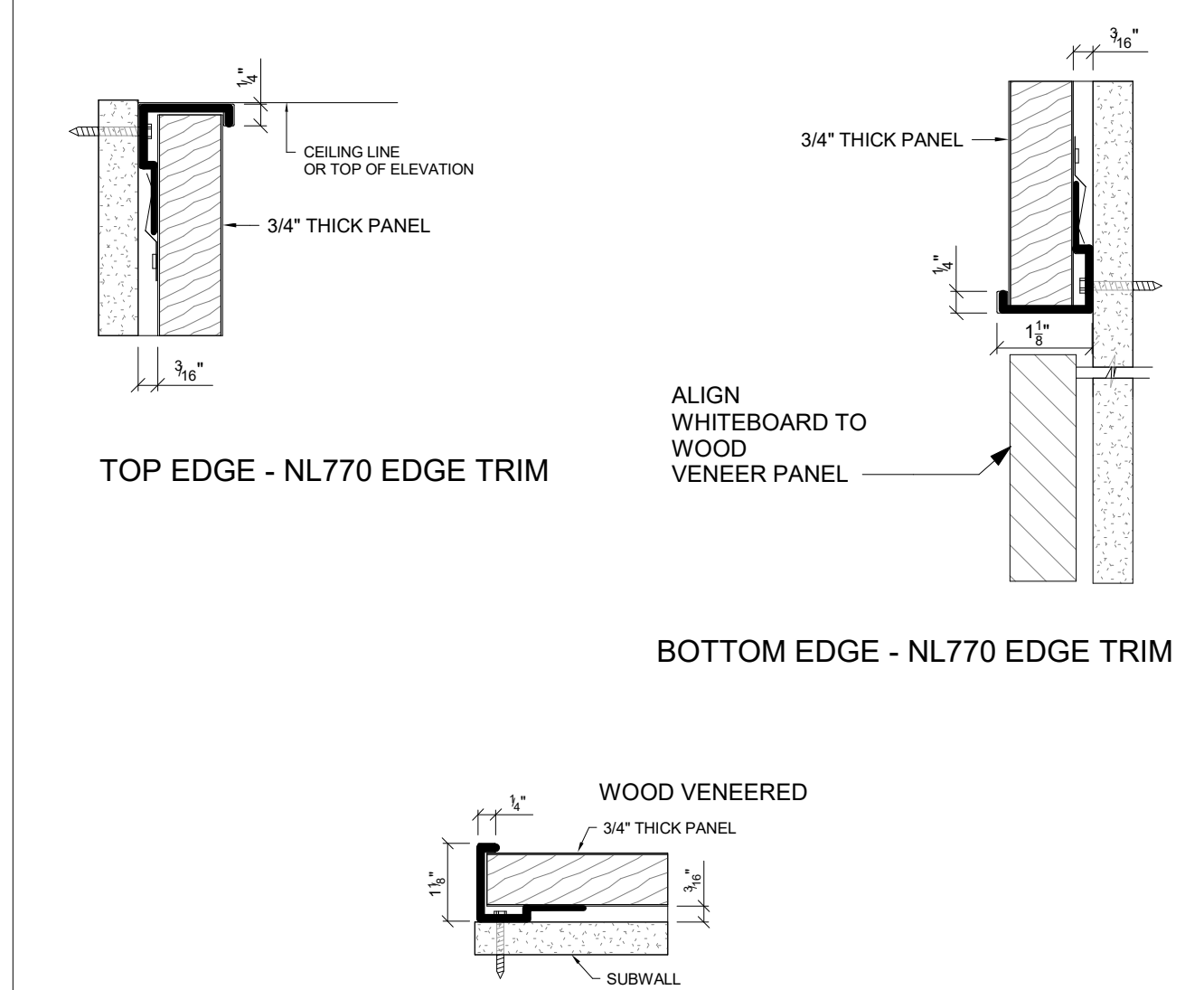
TRANSITION DETAIL - ACOUSTICAL PANEL TO GWB - VERTICAL  
3" = 1'-0" REFERRED FROM A112



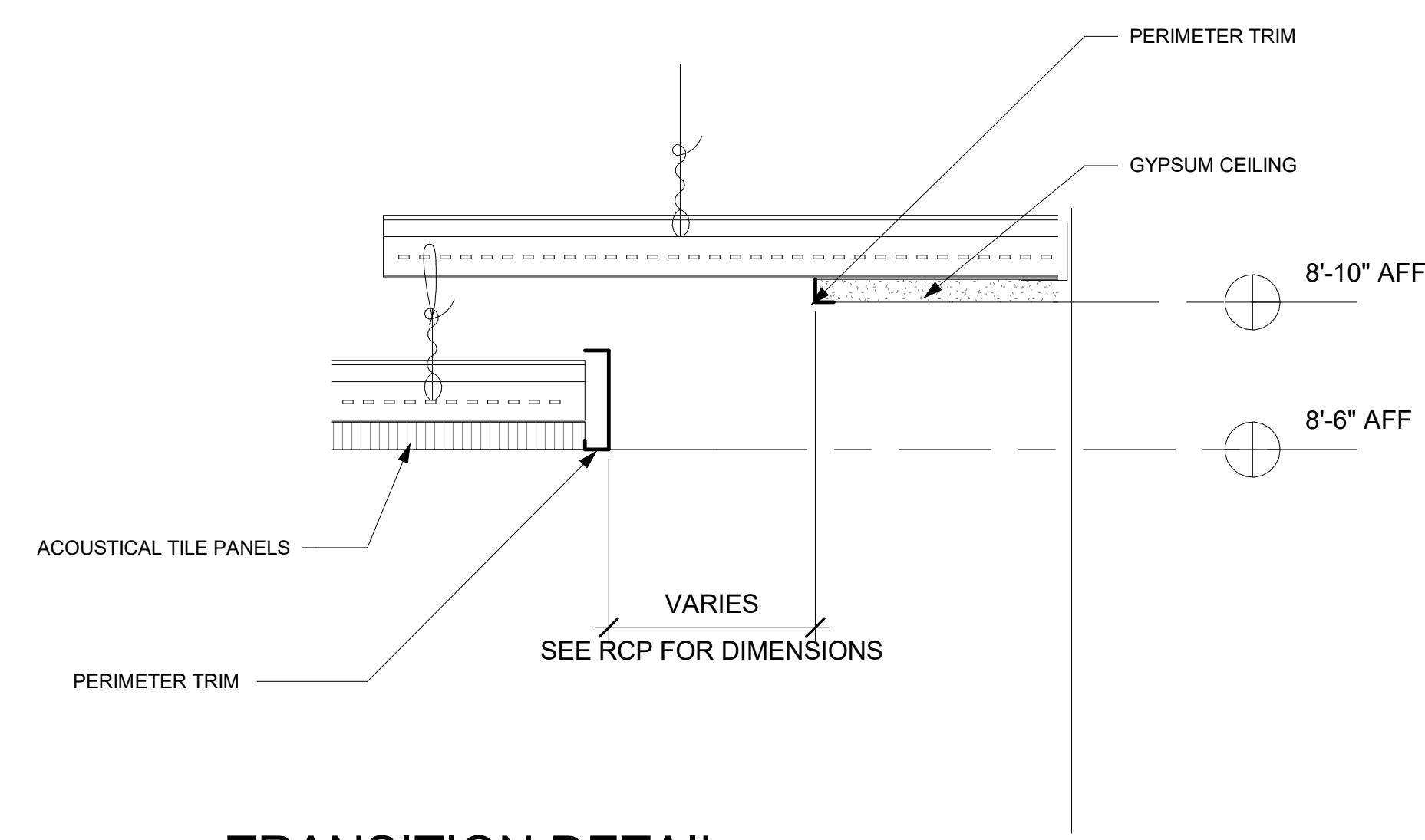
TRANSITION DETAIL - GWB SOFFIT  
3" = 1'-0" REFERRED FROM A112



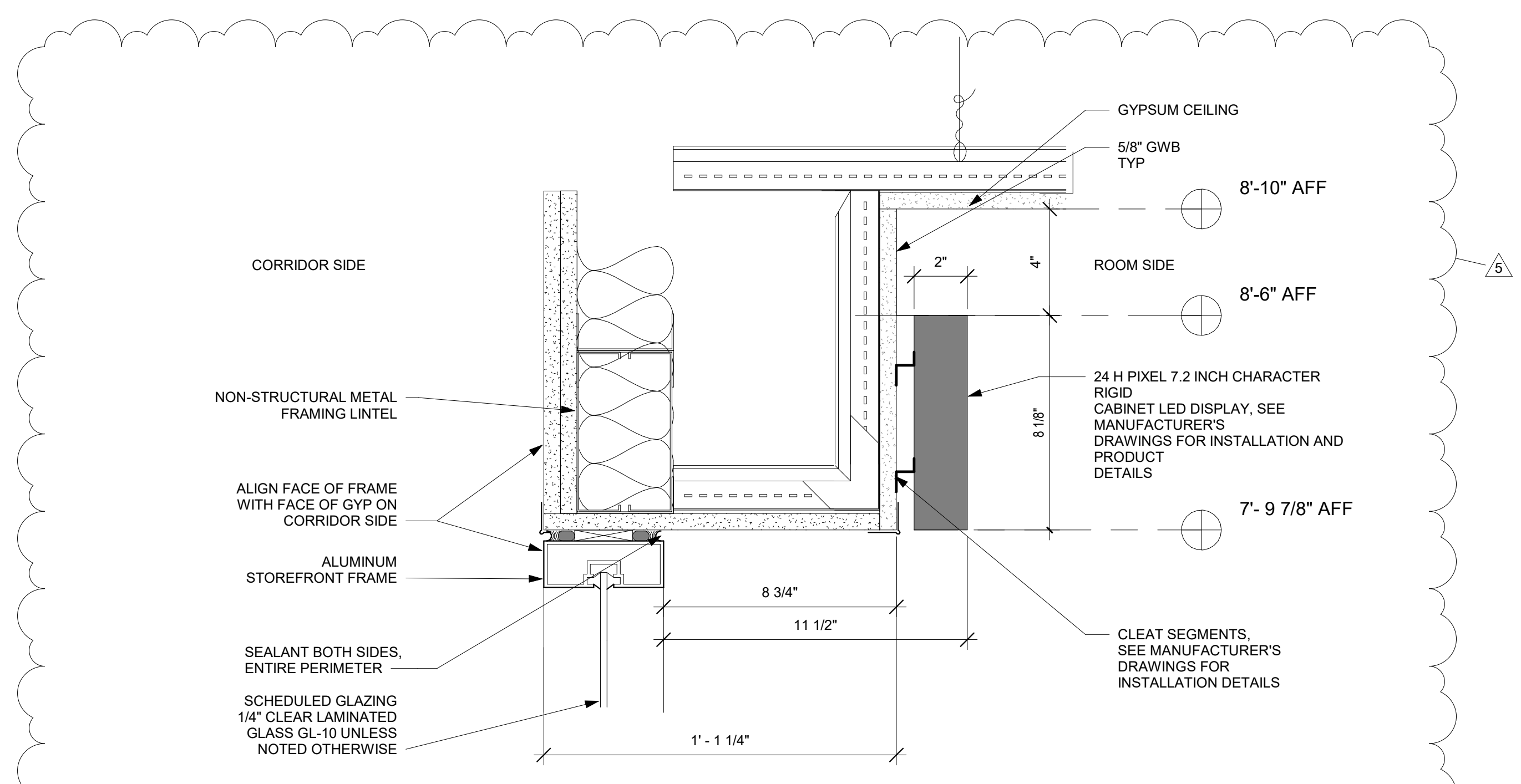
DETAIL - SECTION  
1 1/2" = 1'-0" REFERRED FROM:



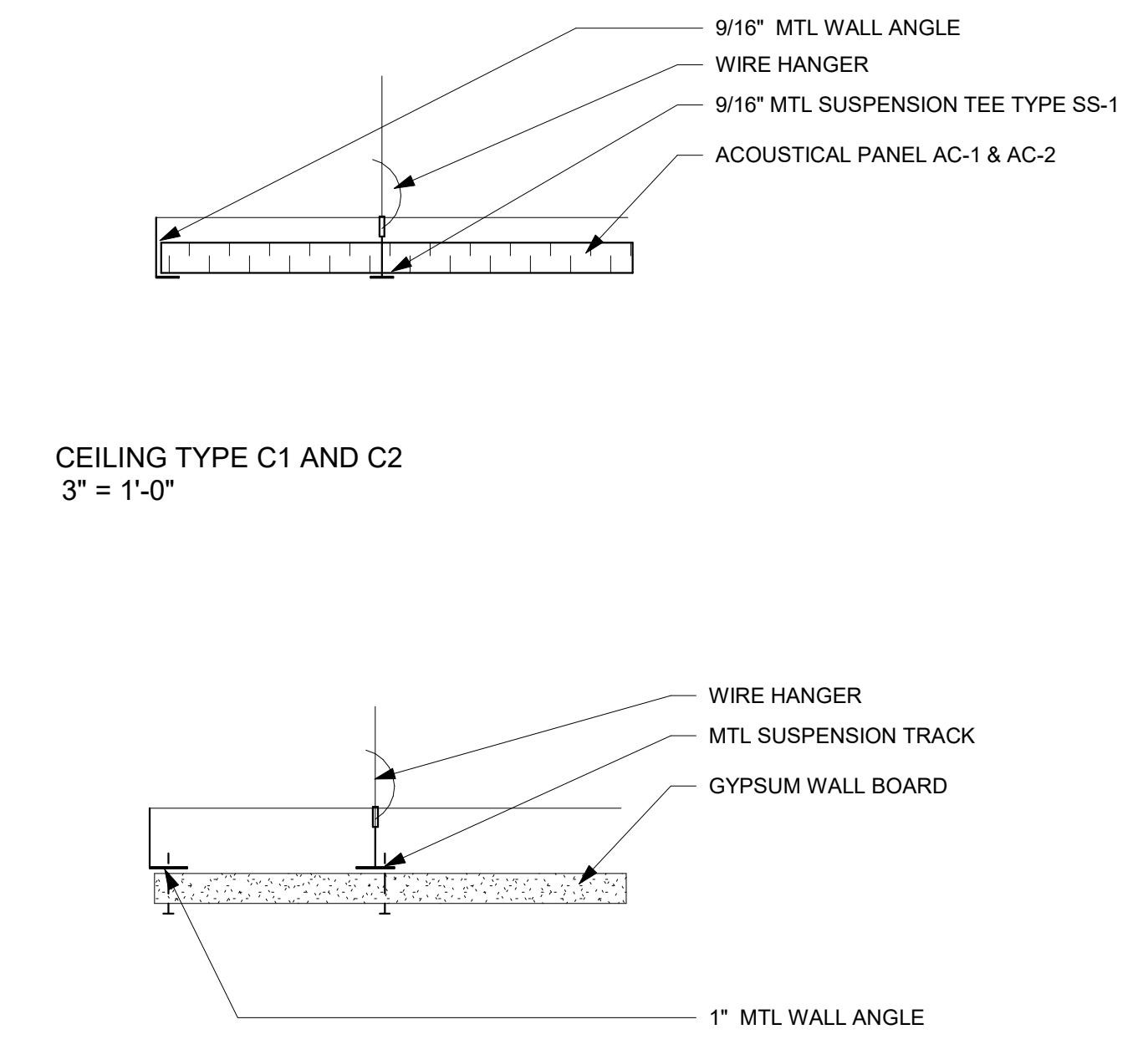
WOOD PANELING SYSTEM DETAILS  
6" = 1'-0"



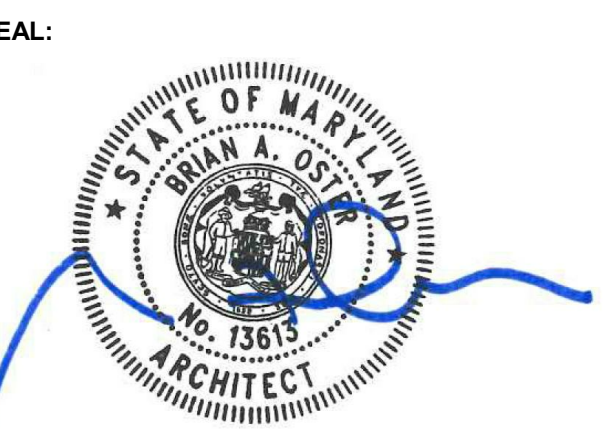
TRANSITION DETAIL - GWB CEILING / ACP CLOUD CEILING  
3" = 1'-0" REFERRED FROM A112



TRANSITION DETAIL - GWB SOFFIT  
3" = 1'-0" REFERRED FROM A112



CEILING TYPE C3  
3" = 1'-0"



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LICENSE NO. 13613  
EXPIRATION DATE: 09/08/2021

ISSUED FOR:

DATE:	DESCRIPTION:
03/25/2020	Addendum 1
04/10/2020	Addendum 3
4/24/2020	Addendum 5

PROJECT NO: BKM # 19106.01

SCALE: AS NOTED

DRAWN BY: NM

CHECKED BY: BO

DATE: 03/06/2020

SHEET TITLE: FINISH SCHEDULE AND DETAILS



ARL: C:\18106\01\Drawings\Acad\Propose\FRO\_XXX  
Plotted By: James Wosver | 11/15/2019 9:26 AM



**AIR HANDLING UNIT SCHEDULE**

DESIG	AREA SERVED	LOCATION	CFM	MIN OA CFM	TSP (IN)	ESP (IN)	FAN DATA							COOLING COIL DATA												HEATING COIL DATA						MIN FILTER APD (IN)		BASIS OF DESIGN												
							QTY	MOTOR				RPM	MIN FAN DIA	WHEEL TYPE	CLASS	TYPE	FLUID	MBH TOTAL	MBH SENS	EAT		LAT		EWT (°F)	LWT (°F)	GPM	MAX WPD (FT)	MAX APD (IN)	MAX FV (FPM)	MIN ROWS	MAX FFI	TYPE	FLUID	MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	MAX WPD (FT)	MAX APD (IN)	MAX FV (FPM)	30% EFF (MERV 8)	85% EFF (MERV 13)	MANUFACTURER	MODEL
								HP	MAX BHP	VOLTS	PHASE									DB (°F)	WB (°F)	DB (°F)	WB (°F)																							
AHU-9	MBI SUITE / GRD FLR	MECHANICAL ROOM	13,000	2,600	4.68	2.5	3	7.5	5.5	460	3	2930	15.74	AF	II	HYDRONIC	WATER	594.5	397.3	80.0	67.0	52.1	51.9	44.0	56.0	73.7	10.0	0.8	420	4	12	HYDRONIC	WATER	252.6	40.0	58.0	160	130	14.5	1.0	0.6	450	1.0	1.0	DAIKIN	CAH033GDOM

- NOTES:  
 1. AHU SHALL BE COMPLETE W/ 85% (AND 35%) ASHRAE EFFICIENT FILTERS.  
 2. PROVIDE UNIT WITH VARIABLE FREQUENCY DRIVE.  
 3. PROVIDE UNIT WITH SINGLE POINT CONNECTION.

**FAN SCHEDULE**

DESIG	LOCATION	AREA SERVED	CFM	ESP (IN)	MOTOR					RPM	MIN FAN DIA	WHEEL TYPE	CLASS	DRIVE TYPE	METHOD OF CONTROL	MANUFACTURER	MODEL
					HP	MAX BHP	VOLTS	PHASE	VFD								
RAF-1	MECHANICAL ROOM	MBI SUITE / GRD FLR	13,000	1.75	7.5	6.0	460	3	Y	1,770		AF	II	DIRECT	ATC	GREENHECK	AX-80-275-0614

- NOTES:  
 1. MOUNT RETURN AIR FAN WITH MANUFACTURER RECOMMENDED VIBRATION ISOLATION.

**PUMP SCHEDULE**

DESIG	SERVICE	LOCATION	GPM	HEAD (FT)	MOTOR					RPM	CONTROL	BASIS OF DESIGN		TYPE
					HP	MAX BHP	VOLTS	PHASE	VFD			MANUFACTURER	MODEL	
P-1	AHU-9 FREEZE PROTECTION	MECH ROOM 002A	5	10	1/6	-	120	1	-			BELL & GOSSETT	PL-60	INLINE, CLOSE COUPLED

- NOTES:  
 1. PROVIDE PUMP WITH INTEGRAL DISCONNECT SWITCH AND MOTOR STARTER.

**AIR VOLUME TERMINAL WITH HOT WATER HEATING COIL SCHEDULE**

DESIG	MAX CFM	MIN OCC CFM	MIN INLET SIZE (IN) (3)	OUTLET SIZE (IN) (4)	MAX APD (IN) (5)	MAX NC (6)	MIN INLET SP (IN) (8)	MIN SOUND ATTENUATOR SIZE (IN x IN x IN) (7)	HEATING CAPACITY							MANUFACTURER / MODEL	REMARKS	
									CFM	EAT (°F)	LAT (°F)	BTUH	EWT (°F)	LWT (°F)	GPM			PIPE SIZE
VAV-1	1720	520	24x8	28x10	0.60	30	1.50	28x10x36	860	55	95	37160	160	130	2.48	1"	TITUS 040	
VAV-2	1480	450	24x8	28x10	0.60	30	1.50	28x10x36	740	55	95	31970	160	130	2.13	1"	TITUS 040	
VAV-3	500	150	12x8	16x10	0.60	30	1.50	16x10x36	150	55	95	6500	160	130	0.43	3/4"	TITUS 020	
VAV-4	165	50	5"Ø	12x8	0.60	30	1.50	12x8x36	80	55	85	2600	160	130	0.17	3/4"	TITUS 05	
VAV-5	1000	340	12x8	16x10	0.60	30	1.50	16x10x36	340	55	95	14700	160	130	0.98	3/4"	TITUS 020	
VAV-6	840	250	12x8	16x10	0.60	30	1.50	16x10x36	305	55	95	13180	160	130	0.88	3/4"	TITUS 020	
VAV-7	860	260	12x8	16x10	0.60	30	1.50	16x10x36	320	55	95	13830	160	130	0.92	3/4"	TITUS 020	
VAV-8	1680	500	24x8	28x10	0.60	30	1.50	28x10x36	710	55	95	30680	160	130	2.05	1"	TITUS 040	

- NOTES:  
 1. TERMINAL UNIT HEIGHT SHALL BE A MAXIMUM OF 10".  
 2. AIR VOLUME TERMINALS SHALL BE PRESSURE INDEPENDENT TYPE.  
 3. PROVIDE MINIMUM OF THREE (3) DUCT DIAMETERS OR TWO (2) FEET (WHICHEVER IS GREATER) OF STRAIGHT SHEET METAL DUCT AT TERMINAL UNIT INLET. MEDIUM PRESSURE FLEXIBLE DUCTWORK WILL NOT BE PERMITTED.  
 4. WHERE OUTLET SIZE IS INDICATED OTHERWISE ON HVAC PLANS, PROVIDE DUCT TRANSITION AS REQUIRED. PROVIDE TRANSITION FROM TERMINAL OUTLET TO SOUND ATTENUATOR AND FROM SOUND ATTENUATOR TO DUCT SIZE INDICATED ON PLANS.  
 5. MAX APD SHALL BE FOR AIR VOLUME TERMINAL PLUS HEATING COIL AND SOUND ATTENUATOR.  
 6. MAXIMUM NOISE CRITERIA (NC) LEVELS FOR DISCHARGE AND RADIATED SOUND SHALL NOT BE EXCEEDED IN ANY OF THE 2ND THRU 7TH OCTAVE BANDS AT THE SCHEDULED INLET STATIC PRESSURE. STANDARD CATALOGUED ATTENUATION CREDITS SHALL NOT BE USED. SEE SPECIFICATIONS FOR ALLOWABLE SOUND ADJUSTMENT FACTORS.  
 7. PROVIDE DUCT MOUNTED SOUND ATTENUATOR BY RUSKIN OF VIBRO-ACOUSTICS TO MEET NC VALUES SCHEDULED. SOUND ATTENUATOR PRESSURE DROP SHALL NOT EXCEED 0.15 IN WC.  
 8. THE MINIMUM INLET STATIC PRESSURE INDICATED SHALL BE EQUAL TO THE DIFFERENCE IN STATIC PRESSURE FROM AIR TERMINAL INLET TO AIR TERMINAL DISCHARGE (NOT INCLUDING COIL, ATTENUATOR, ETC.)

**AIR DEVICE SCHEDULE**

DESIG	DUTY	SIZE (IN)	CFM RANGE	INLET / NECK SIZE (IN)	MAX SP	MAX NC	DESCRIPTION	BASIS OF DESIGN	
								MANUFACTURER	MODEL
A	SUPPLY	24 x 24 MODULE	0 - 120	6"Ø	0.10"	20	(18 x 18 NECK W/ FACTORY MOUNTED SQUARE - ROUND TRANSITION)	TITUS	TDC
B	SUPPLY	24 x 24 MODULE	211 - 325	10"Ø	0.10"	25	(18 x 18 NECK W/ FACTORY MOUNTED SQUARE - ROUND TRANSITION)	TITUS	TDC
C	SUPPLY	4 FT LONG	141 - 260	8"Ø	0.10"	30	LINEAR SLOT, 1" SLOT (4 SLOTS) W/ LOW PROFILE INSULATED PLENUM	TITUS	ML-39 W/ MPI-39 INSULATED PLENUM
D	RETURN	24 x 24 MODULE	501 - 1600	22 x 22	0.10"	25	PERFORATED FACE - REGISTER (FLUSH)	TITUS	PAR
E	RETURN	18 x 42	0 - 2500	18 x 42	0.10"	20	RETURN AIR GRILLE, 3/4" BLADE SPACING, 35° DEFLECTION, BLADES PARALLEL IN SHORT DIMENSION	TITUS	350

- NOTE:  
 1. ALL AIR DEVICES SHALL BE ALUMINUM.  
 2. SEE PLANS FOR AIR DEVICE CFM.



PROJECT NAME:  
**Montgomery College**



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 LICENSE NO. 17117  
 EXPIRATION DATE: 10/25/2020

ISSUED FOR:

DATE:	DESCRIPTION:
3/6/2020	100% CONSTRUCTION DOCUMENTS
4/24/2020	ADDENDUM #5

PROJECT NO: BKM # 19106.01

SCALE: AS NOTED

DRAWN BY: CS

CHECKED BY: JMW

DATE: 03/06/2020

SHEET TITLE: MECHANICAL SCHEDULES

DRAWING NO:

**M9.01**

BKM# 19106.01

ROOM NAME LIST	
1	CONFERENCE ROOM
2	OFFICE
3	OFFICE
4	FINANCE LAB/CLASSROOM
5	LOBBY/RECEPTION
6	LOBBY ENTRANCE

**bkm**  
 Burdette, Koehler, Murphy & Associates, Inc.  
 Mechanical / Electrical Engineers  
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PROJECT NAME:  
**Montgomery College**



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 EXPIRATION DATE: 10/25/2020

ISSUED FOR:

DATE:	DESCRIPTION:
3/6/2020	100% CONSTRUCTION DOCUMENTS
3/25/2020	ADDENDUM #1
4/24/2020	ADDENDUM #5

PROJECT NO: BKM # 19106.01

SCALE: AS NOTED

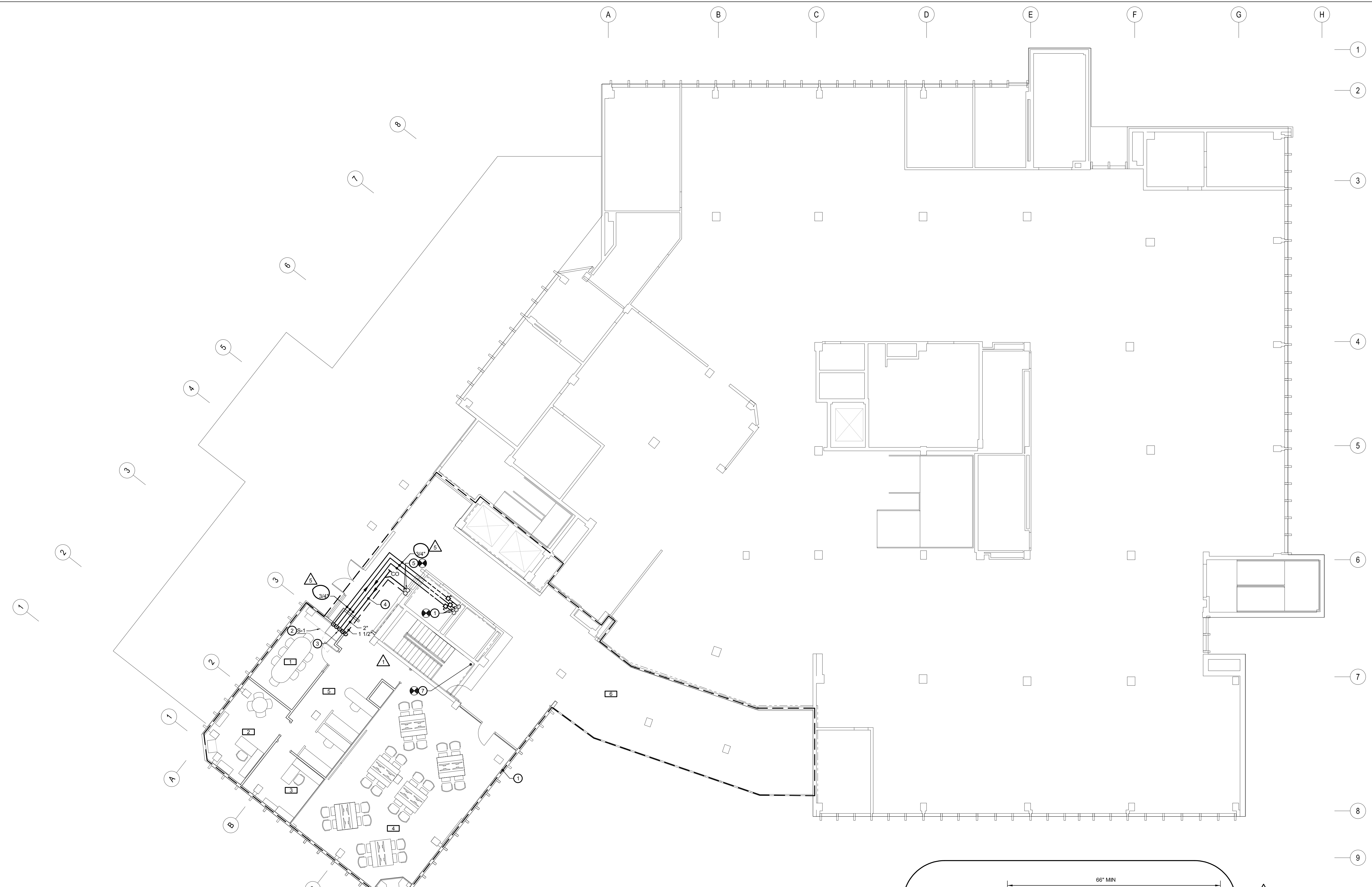
DRAWN BY: SY

CHECKED BY: JMW

DATE: 03/06/2020

SHEET TITLE: **FIRST FLOOR PLAN  
 PLUMBING  
 NEW WORK**

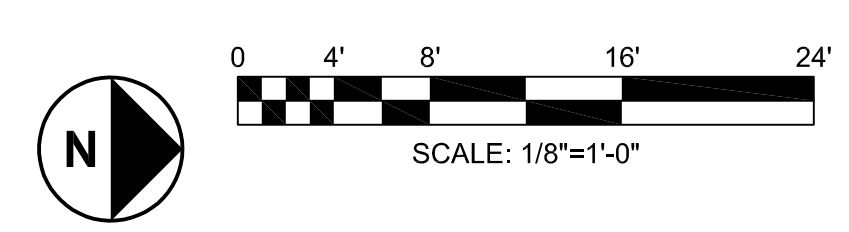
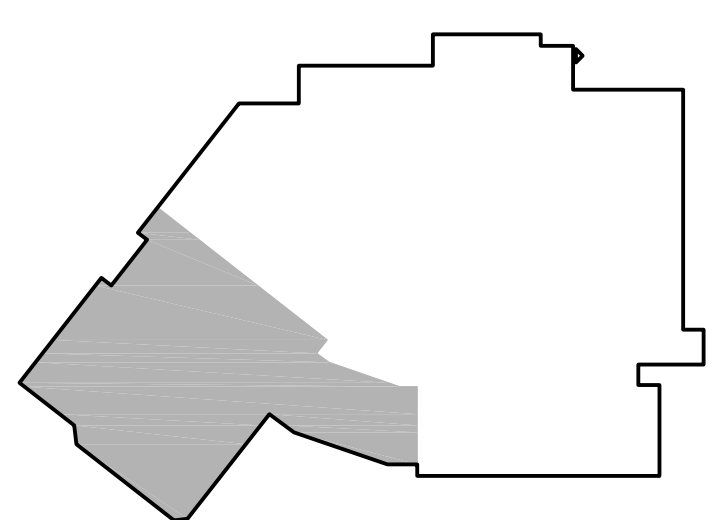
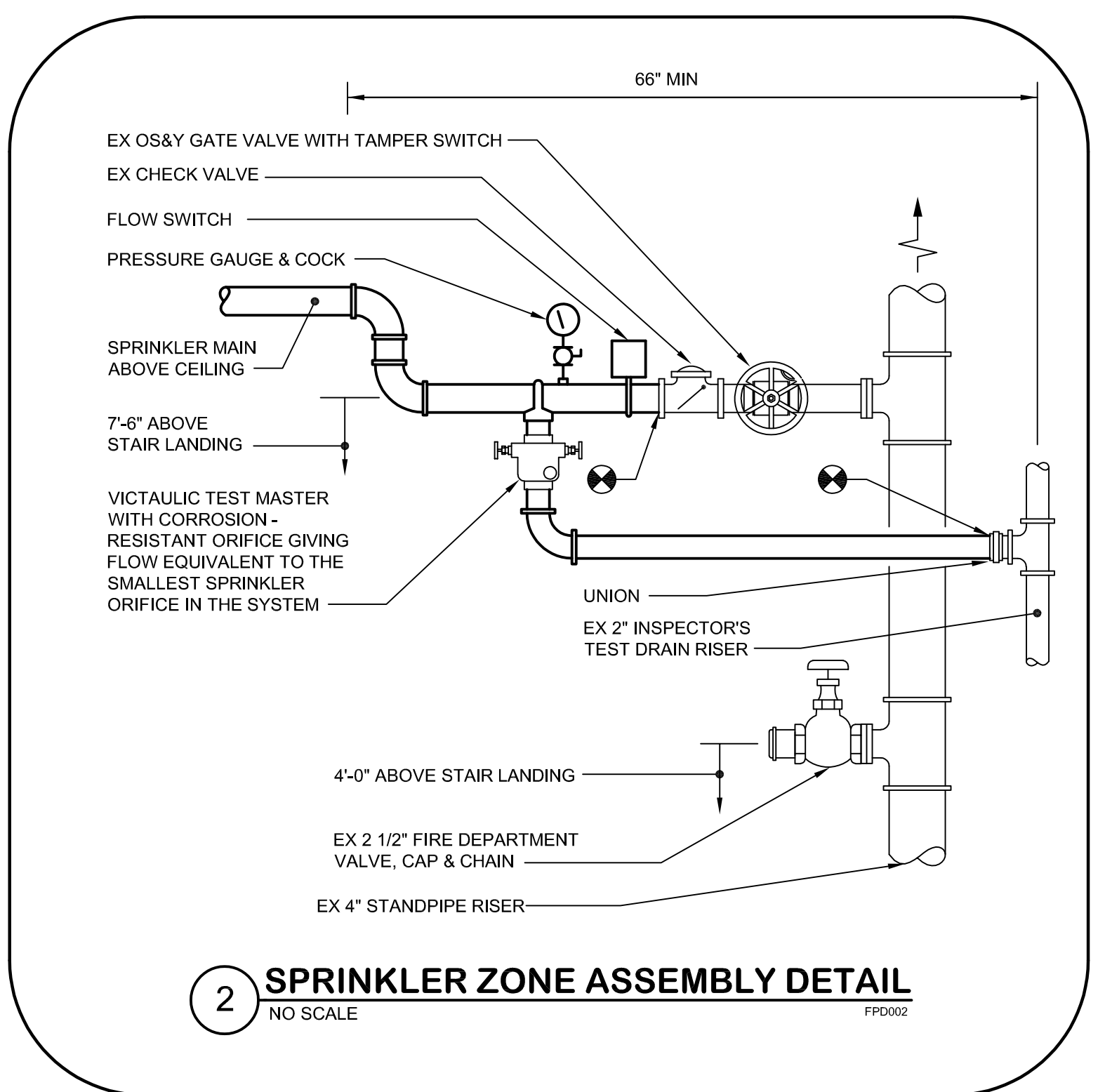
DRAWING NO:  
**P2.01**  
 BKM# 19106.01



**1 FIRST FLOOR PLAN - PLUMBING - NEW WORK**  
 SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**  
 1. REFER TO M0.01 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.

- DRAWING NOTES:**
- EXTEND SPRINKLER PIPING AS REQUIRED TO PROVIDE COMPLETE COVERAGE OR PROJECT AREA PER NFPA 13. PROVIDE NEW SPRINKLER HEADS AND BRANCH PIPING AS REQUIRED. SPRINKLER HEADS SHALL BE RECESSED QUICK RESPONSE TYPE. COORDINATE SPRINKLER HEAD FINISH WITH OWNER AND ARCHITECT.
  - UNDER MOUNT PANTRY SINK PROVIDE ROUGE-IN AND FINAL CONNECTION. PROVIDE 19"x22" 18 GAUGE SINGLE COMPARTMENT SINK WITH 1.5 GPM AERATOR. PROVIDE 8" GOOSENECK, 4" WRIST BLADE HANDLE, 8" FAUCET CENTERS, 1.5 GPM AERATOR, CHROME BASKET STRAINER, FLEXIBLE SUPPLIES, TAIL PIECE AND CAST BRASS PLUMBING LUSTERTONE OR EQUIVALENT.
  - 1/2" COLD WATER, 1/2" HOT WATER AND 1" VENT DOWN TO S-1, 2" SANITARY PIPING BELOW FLOOR. PROVIDE THERMOSTATIC MIXING VALVE AT FIXTURE (AWLNER MODEL 570).
  - 2" SANITARY PIPING ROUTED IN PLENUM BELOW FLOOR. SLOPE SANITARY PIPING TOWARD EXISTING RISER AT 1% SLOPE.
  - 2" SANITARY AND 1" VENT PIPING CONNECTED TO EXISTING SANITARY AND VENT PIPING SERVING EXISTING ELECTRIC WATER COOLER.
  - 1/2" COLD WATER, 1/2" HOT WATER AND 1/2" HOT WATER RECIRCULATION PIPING EXTENDED FROM EXISTING RISER.
  - EXTEND NEW SPRINKLER PIPING FROM EXISTING 4" STAND PIPE RISER. INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. PROVIDE FLOW SWITCH, PRESSURE GAUGE AND VICTAULIC TEST MASTER EXTENDED TO EXISTING 2" INSPECTOR'S TEST DRAIN RISER.



PLOTTED BY: JAMES WEAVER | 4/24/2020 12:01 PM  
 ARL-C:\19106.01\Drawings\Acad\PP201\FIRST FLOOR PLAN PLUMBING N