

CLINICAL SUPPORT AND EDUCATION BUILDING

SIM CENTER RENOVATION



FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

ISSUED FOR BID

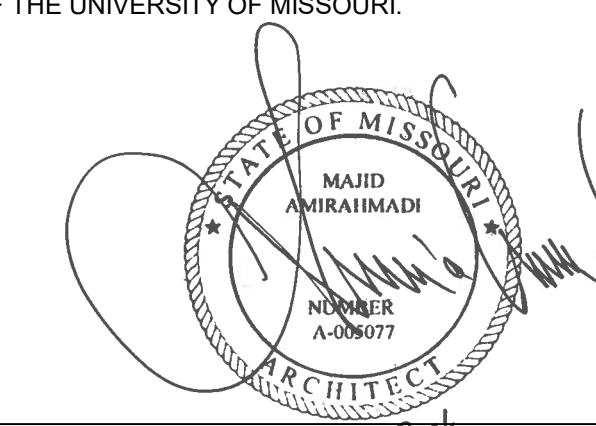
02/27/2024

CP242241

INTERNATIONAL ARCHITECTS ATELIER

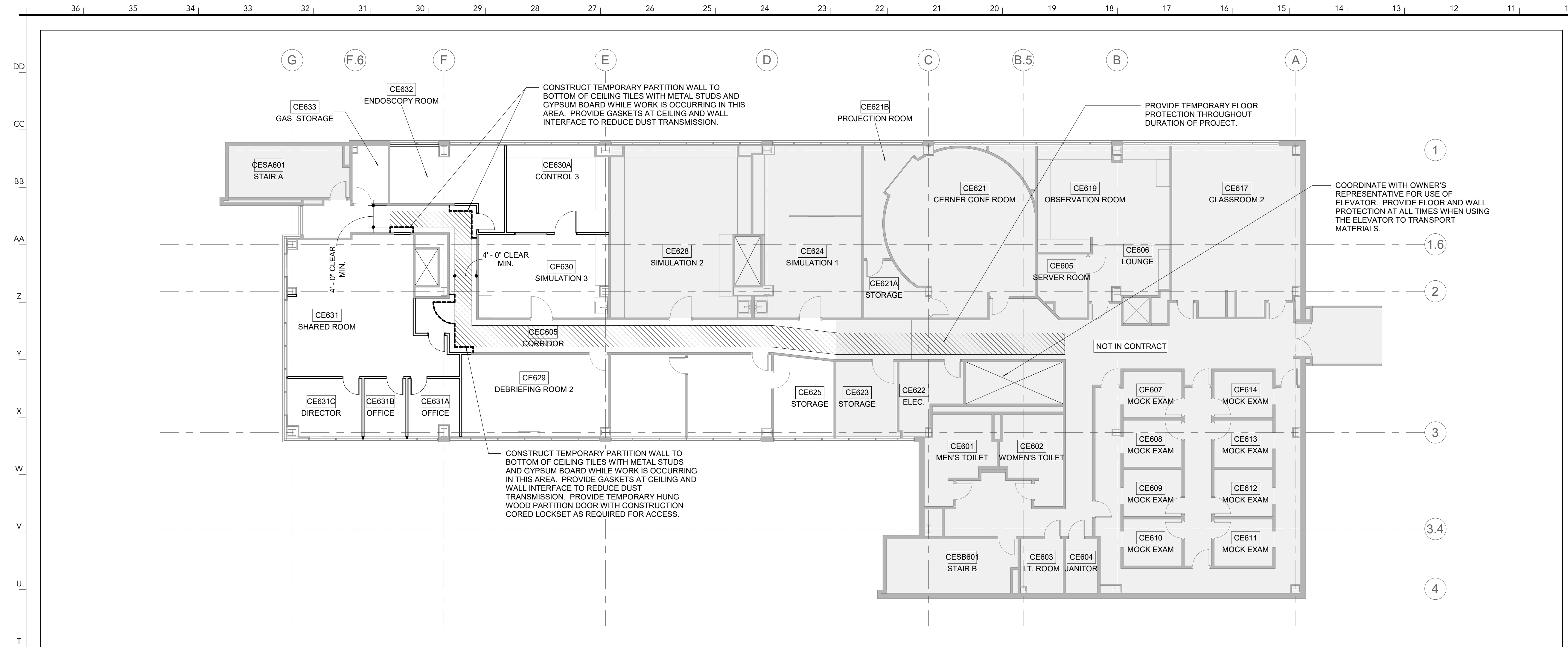


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OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE
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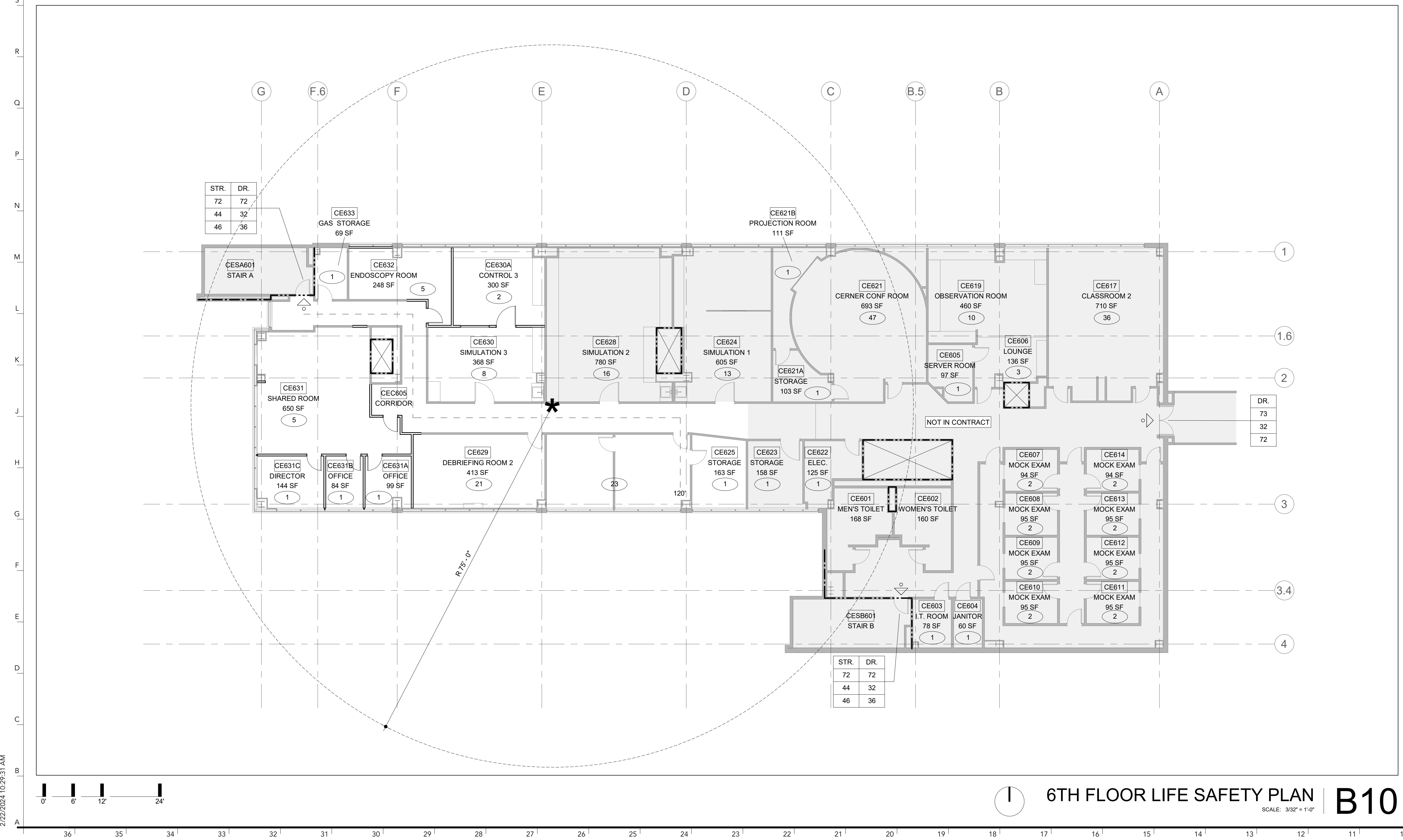


MAJID AMRAHMADI, AIA
INTERNATIONAL ARCHITECTS ATELIER

2-27-24



① 6TH FLOOR TEMPORARY PROTECTION PLAN | T10
SCALE: 3/32" = 1'-0"



① 6TH FLOOR LIFE SAFETY PLAN | B10
SCALE: 3/32" = 1'-0"

LIFE SAFETY LEGEND | AA1

(X)	OCCUPANTS PER ROOM	■	NOT IN CONTRACT
STR. DR.	STR. = STAIR WIDTH / DR. = DOOR WIDTH	---	EGRESS TRAVEL PATH
'x' 'x'	OCCUPANCY	- - -	INDICATES 1-HOUR FIRE RESISTIVE CONSTRUCTION
'x' 'x'	REQUIRED EXIT WIDTH (INCHES)	----	INDICATES 2-HOUR FIRE RESISTIVE CONSTRUCTION
'x' 'x'	PROVIDED EXIT WIDTH (INCHES)	-----	INDICATES 3-HOUR FIRE RESISTIVE CONSTRUCTION
△	INDICATES POINT OF EGRESS ACCESS	-----	INDICATES 4-HOUR FIRE RESISTIVE CONSTRUCTION
▲	INDICATES POINT OF EGRESS DISCHARGE		
*	INDICATES LOCATION OF FIRE EXTINGUISHER CABINET		

Applicable Codes:

2021 International Building Code (IBC)	2021 International Plumbing Code (IPC)
2021 International Mechanical Code (IMC)	2021 International Fire Code
2020 National Electrical Code (NFPA 70 NEC)	2021 Installation of Air Conditioning and Ventilating Systems (NFPA 90A)
2022 National Fire Alarm Code (NFPA 72)	2019 ASHRAE 90.1 – Energy Standard for Buildings
2019 ICC ANSI A117.1	2010 ADA Standards of Accessible Design
University of Missouri Consultant Procedures and Design Guidelines	

Occupancy: B - Business
 Type of Construction: Existing Building, Type I-B
 Risk Category: III
 Building Height (Stories): 8 stories above grade plane
 Allowable Building Height: 12 stories above grade plane (IBC Table 504.4)
 Building Height: 126'-8" above grade plane
 Allowable Building Height: 180'-0" above grade plane (IBC Table 504.3)
 Building Area: Sixth Floor – Approx. 13,232 gross square feet
 Allowable Building Area: Unlimited (IBC Table 506.2)
 Mixed Use Group Approach: Non-Separated (IBC 508.3)
 Active Fire Protection:
 -Automatic Sprinkler System: Existing in Building
 -Fire Extinguishers: Required (IBC 906.1)
 -Fire Alarm: Existing in Building (IBC 907.2)
 Egress:
 -Stairs - Exit Width: 0.3 inches per person (IBC 1005.3.1), 44 inches minimum (IBC 1011.2)
 -Doors - Exit Width: 36 inches minimum serving occupant load less than 50 (IBC 1011.2 Exc. 1), 0.2 inches per person (IBC 1005.3.2), 32 inches minimum clear width (IBC 1010.1.1)
 Common Path of Egress Travel (IBC Table 1006.2.1): B: 100 feet
 Exit Access Travel Distance (IBC Table 1017.2): B: 300 feet
 Number of Exits Required from Spaces: 2 exits required where over 49 occupants

INTERNATIONAL ARCHITECTS ATELIER
 912 BROADWAY BLVD, SUITE 300 | KANSAS CITY, MO 64105
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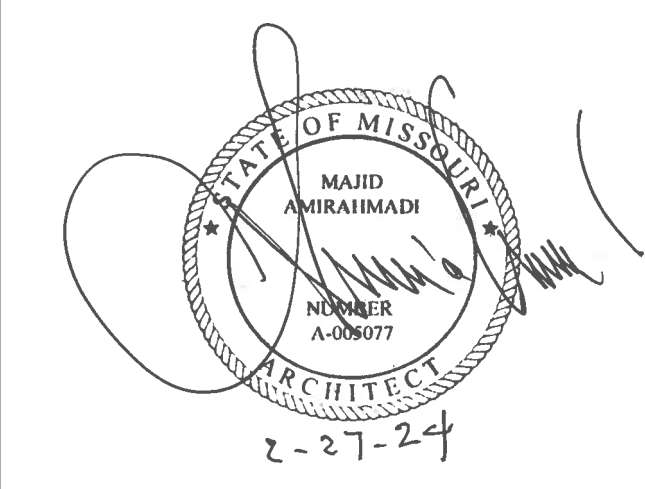
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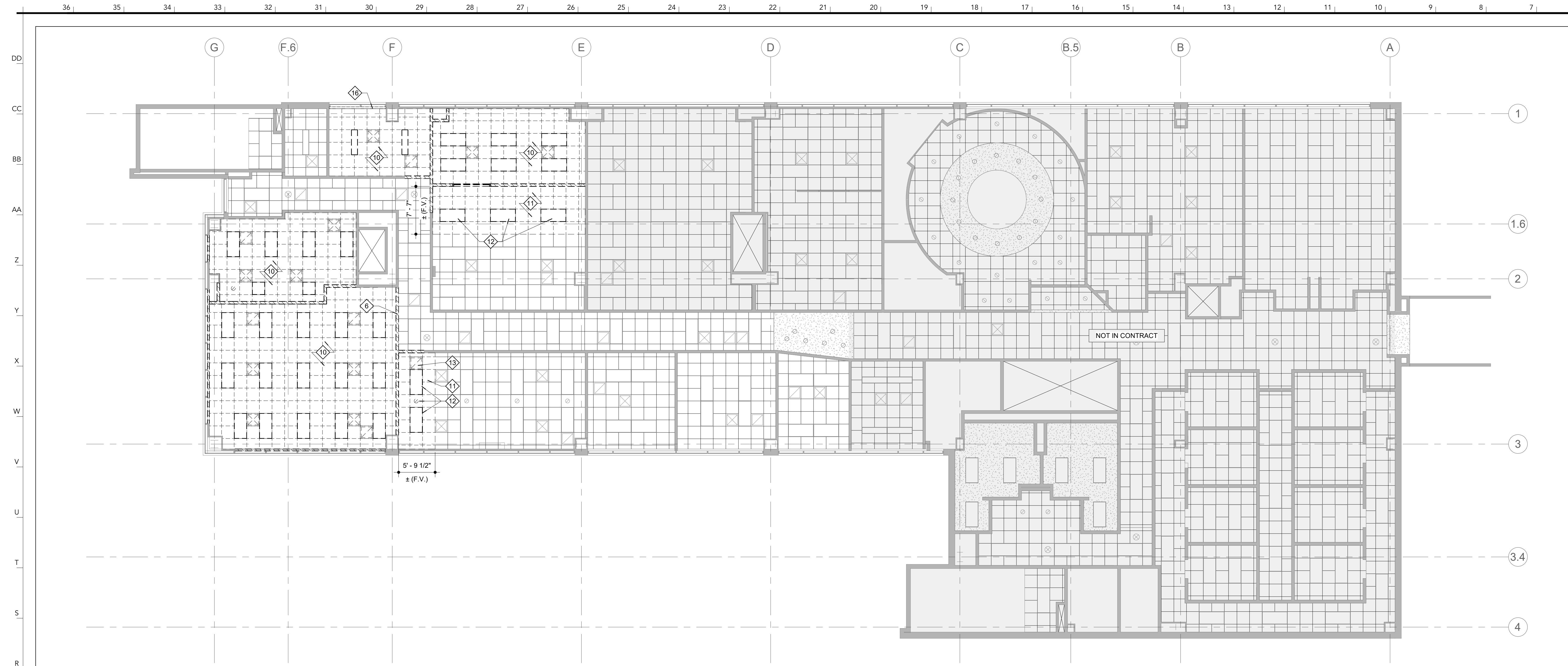
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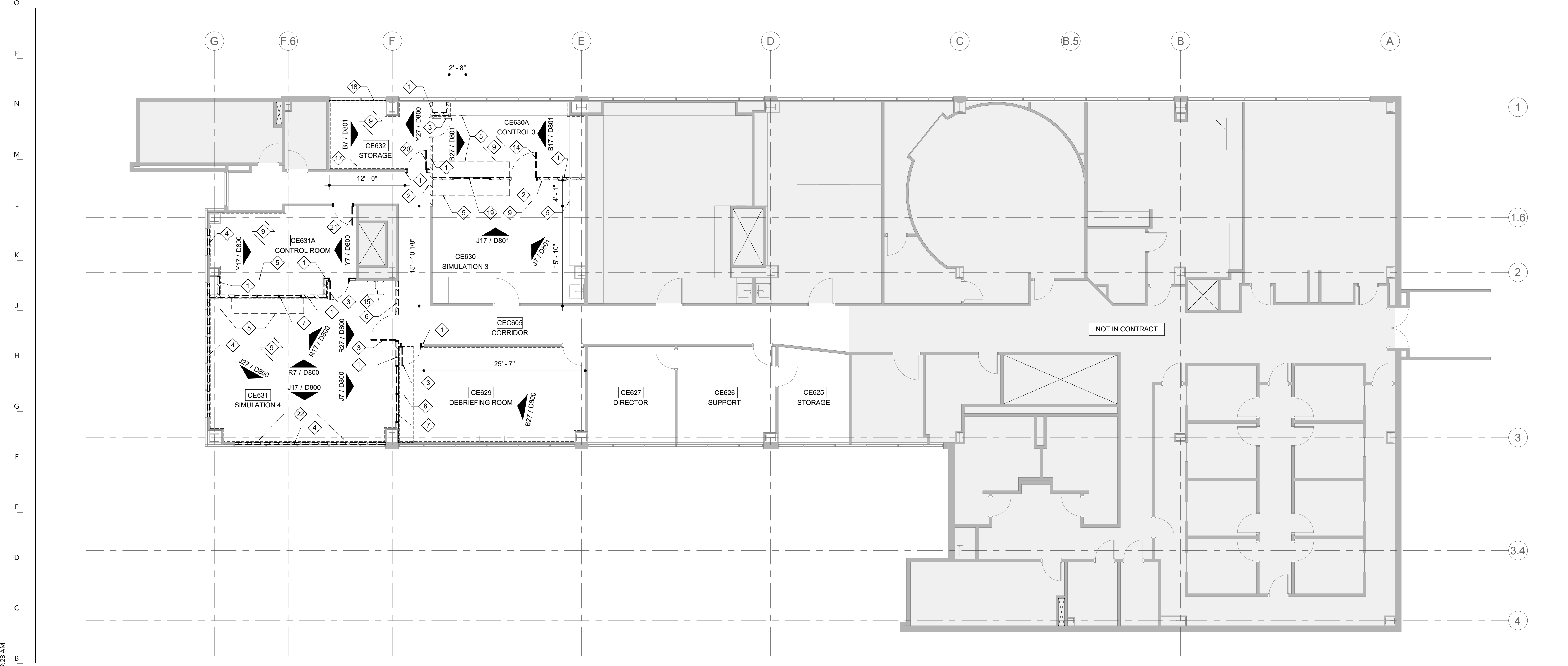
LIFE SAFETY PLAN / CODE ANALYSIS

G002

CODE SUMMARY | B1



DEMOLITION CEILING PLAN R6
SCALE: 1/8" = 1'-0"



DEMOLITION PLAN B6
SCALE: 1/8" = 1'-0"

- DEMOLITION NOTES:**
- INDICATES AREAS OF BUILDING NOT IN CONTRACT
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 - INDICATES ITEMS TO BE DEMOLISHED.
- OR
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 - SALVAGE ANY ROOM SIGNAGE LOCATED ON WALLS TO BE DEMOLISHED AND TURN OVER TO THE OWNER'S REPRESENTATIVE.
- PLAN NOTES**
- REMOVE EXISTING METAL STUD AND GYPSUM BOARD WALL INCLUDING WALL BASE, ALL ASSOCIATED FRAMING, AND ANY ELECTRICAL DEVICES, RECEPTACLES, CONDUIT, ETC. RE ELECTRICAL DRAWINGS FOR ELECTRICAL DEMOLITION REQUIREMENTS.
 - REMOVE EXISTING WALL BASE AND ADHESIVE WITHIN ROOM INDICATED ON PLANS.
 - REMOVE EXISTING DOOR, DOOR FRAME, HARDWARE, AND ALL ASSOCIATED FRAME ANCHORAGE MATERIALS.
 - REMOVE PORTION OF METAL STUD AND GYPSUM BOARD WALL IN FRONT OF EXTERIOR WINDOW. REFER TO WINDOW DETAILS FOR EXTENTS OF WALL DEMOLITION.
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 - REMOVE INTERIOR HOLLOW METAL WINDOW AND FRAMING.
 - REMOVE ALL EXISTING CARPET, WALL BASE, AND ASSOCIATED ADHESIVES DOWN TO STRUCTURAL SLAB. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH.
 - REMOVE ALL EXISTING VINYL FLOORING, WALL BASE, AND ASSOCIATED ADHESIVES DOWN TO STRUCTURAL SLAB. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH.
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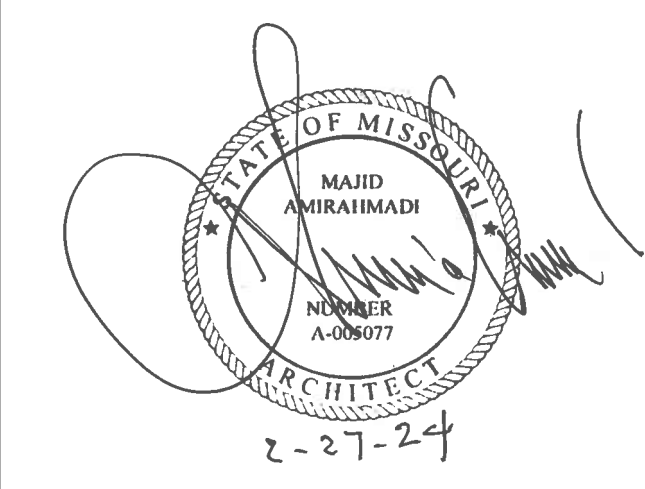
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DEMOLITION FLOOR
AND CEILING PLANS

D100

2/22/2024 10:29:28 AM



CE632 SW ROOM PHOTO | Y27

CE631A EAST ROOM PHOTO | Y17

CE631A WEST ROOM PHOTO | Y7

CE631 NE ROOM PHOTO | R27

CE631 NW ROOM PHOTO | R17

CE631 NORTH ROOM PHOTO | R7

CE631 SW ROOM PHOTO | J27

CE631 SOUTH ROOM PHOTO | J17

CE631 EAST ROOM PHOTO | J7

CE629 WEST ROOM PHOTO | B27

NOT USED | B17

NOT USED | B7

DEMO NOTES | B1

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 P: 816.471.6522 | F: 816.471.3755 | W: IAA.COM
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DEMOLITION PHOTOGRAPHS

D800

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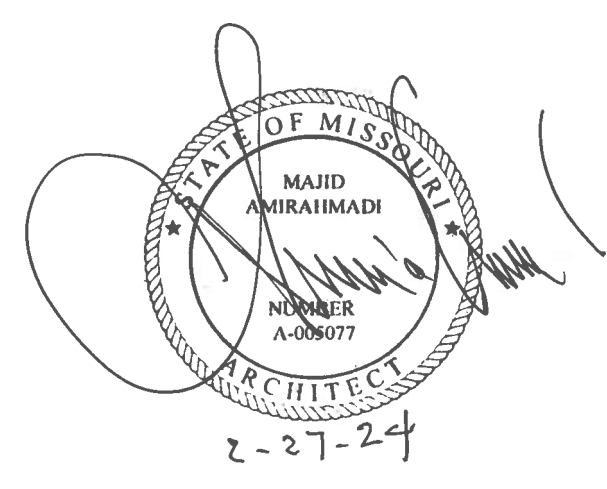
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**DEMOLITION
 PHOTOGRAPHS**

D801

DEMOLITION NOTES:

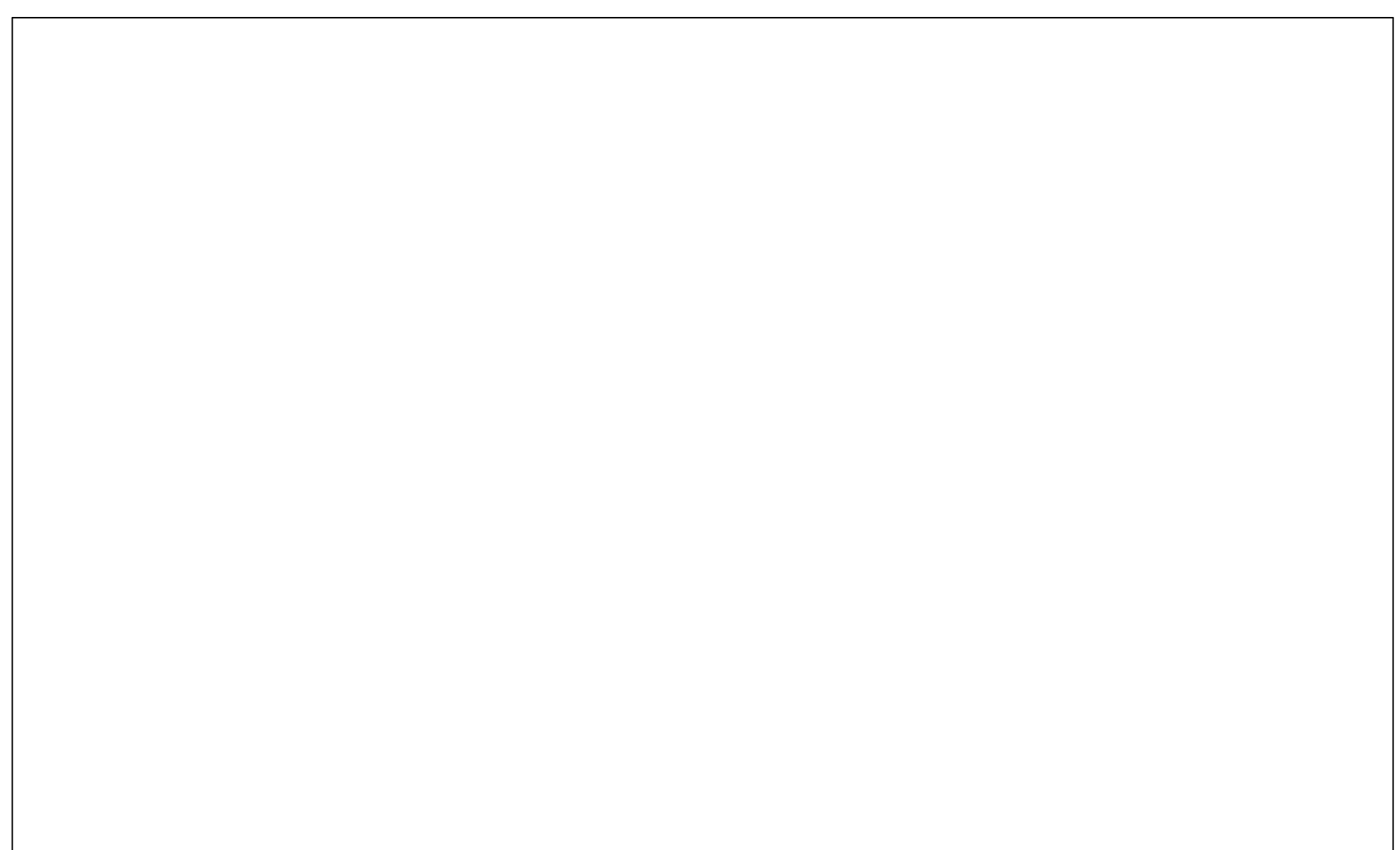
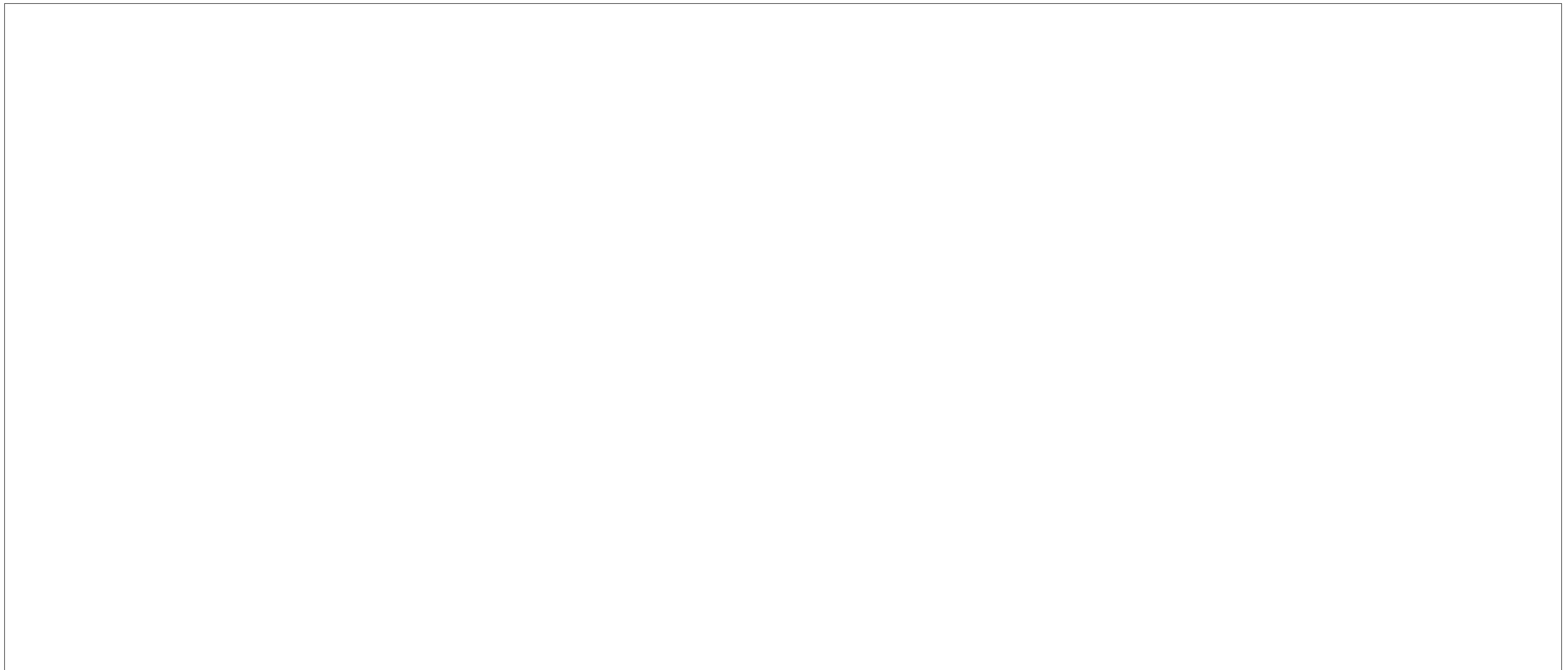
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NOT USED | **R27**



NOT USED | **J27**



CE630 NORTH ROOM PHOTO | **J17**



CE630 NORTH WEST ROOM PHOTO | **J7**



CE630A EAST ROOM PHOTO | **B27**



CE630A WEST ROOM PHOTO | **B17**



CE632 EAST ROOM PHOTO | **B7**

DEMO NOTES | B1

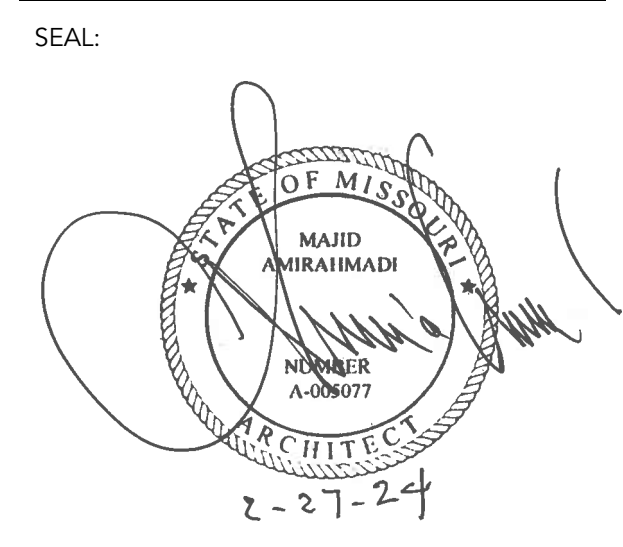


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FLOOR PLAN

A100

PARTITION TYPE - A SERIES | AA19

A SERIES
NONCOMBUSTIBLE
FIRE RESISTANCE: 1 HOUR WHERE INDICATED
UL ASSEMBLIES:
UL 1448 @ A2_ONLY
UL 4465 @ ALL OTHER A-SERIES PARTITIONS

PLAN VIEW

092900 A ONE LAYER, EACH SIDE
092900 B WHEN INDICATED BY MODIFIER
092216 A @ 16" O.C., TYP. U.N.O. ON PLAN
CONTROL JOINT REFER TO SPEC. SECTION 092900 OR PLANS FOR LOCATIONS

1. SERIES
THIS CHARACTER DENOTES THE ASSEMBLY SERIES TO WHICH THE WALL BELONGS.

2. STUD/MASONRY DESIGNATOR
THIS CHARACTER DENOTES THE STUD OR FURRING WIDTH, FOR MASONRY, THIS CHARACTER INDICATES NOMINAL UNIT WIDTH.

3. MODIFIER
THIS CHARACTER DENOTES MODIFICATION(S) TO THE SERIES ASSEMBLY. REFER TO THE PARTITION MODIFIER KEY FOR MODIFICATION(S).

PARTITION NAMING LEGEND

1. SERIES
2. STUD/MASONRY DESIGNATOR
3. MODIFIER

A3d

PARTITION TYPE - B SERIES | AA9

B SERIES
NONCOMBUSTIBLE
FIRE RESISTANCE: NOT AVAILABLE

PLAN VIEW

092900 A ONE LAYER
092900 B WHEN INDICATED BY MODIFIER
092216 A @ 16" O.C., TYP. U.N.O. ON PLAN
CONTROL JOINT REFER TO SPEC. SECTION 092900 OR PLANS FOR LOCATIONS

PARTITION TYPE	STUD WIDTH	PARTITION WIDTH	STUD SPACING	NOTES
A3	3.5/8"	4.7/8"	16"	
B3	3.5/8"	4.1/4"	16"	

PARTITION SCHEDULE | W9

PARTITION MODIFIER KEY | W27

a - MODIFIER
EXTEND TOTAL PARTITION WITH INSULATION TO STRUCTURAL DECK

b - MODIFIER
EXTEND TOTAL PARTITION TO STRUCTURAL DECK, NO INSULATION

c - MODIFIER
STUDS TO STRUCTURE, GYP. BOARD AND INSULATION TO 6" ABOVE HIGHEST ADJACENT CEILING

d - MODIFIER
STUDS TO STRUCTURE, GYP. BOARD TO 6" ABOVE HIGHEST ADJACENT CEILING, NO INSULATION

a* DENOTES A FIRE RATED PARTITION

PARTITION NAMING LEGEND | W19

A3d

1. SERIES
2. STUD/MASONRY DESIGNATOR
3. MODIFIER

PARTITION SCHEDULE | W9

PARTITION TYPE	STUD WIDTH	PARTITION WIDTH	STUD SPACING	NOTES
A3	3.5/8"	4.7/8"	16"	
B3	3.5/8"	4.1/4"	16"	

PARTITION NOTES | W1

A. PARTITION TYPES SHOW GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO SPECIFICATIONS, PRODUCT TECHNICAL DATA, AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION REQUIREMENTS.

B. PARTITION REQUIREMENTS SHOWN ARE MINIMUM STANDARDS. WHERE ACTUAL CONDITIONS CAUSE PARTITION(S) TO EXCEED LIMITS, REINFORCE PARTITION(S) AS REQUIRED.

C. MINIMUM STC RATINGS INDICATED ARE BASED ON PARTITION TYPES WITH 'a' MODIFIER ONLY AT ACOUSTIC-RATED PARTITIONS (ETC). PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.

D. AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS, AND OTHER FLUSH OR PENETRATING ITEMS WITH CONTINUOUS BEAD OF SEALANT.

E. SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.

F. FILL EACH JOINT AND PENETRATION IN EACH PARTITION WITH INSULATION TO ACHIEVE ACOUSTIC RATING (ETC) AND SEAL ACCORDINGLY.

G. TYPICAL FLOOR PLAN DIMENSIONS FOR PARTITIONS ARE TO FINISH FACE OF GYPSUM BOARD OR MASONRY UNLESS NOTED OTHERWISE. MAINTAIN DIMENSION BETWEEN FACE OF FINISHES. PROVIDE FIRESTOPPING AT PENETRATIONS AND CONNECTIONS TO ADJACENT ASSEMBLIES IN FIRE-RATED PARTITIONS COMPLIANT WITH APPLICABLE TESTING AGENCY REQUIREMENTS.

H. ALL PENETRATIONS THROUGH FIRE-RESISTANCE RATED PARTITIONS SHALL BE SEALED WITH MATERIALS AND ASSEMBLIES NECESSARY TO MAINTAIN THE REQUIRED RATING OF THE WALL, FLOOR, AND/OR ROOF.

I. FIRE AND/OR ACOUSTIC TEST REFERENCES CALLED OUT MAY VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.

J. ENSURE FINISH SURFACES ARE FLUSH AND SEAMLESS WHERE PARTITIONS AND/OR FURRING ARE COPLANAR.

K. WALL FRAMING SHALL COORDINATE WITH REQUIRED MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND OTHER WORK.

L. GYPSUM WALL CONTROL JOINTS (C.J.) SHALL BE INSTALLED AT A MAXIMUM 30'-0" O.C. AND AT MAJOR INTERRUPTIONS TO WALL SURFACE, SUCH AS DOORS, WINDOWS, AND EQUIPMENT OPENINGS. SEE ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL LOCATIONS REQUIRED.

M. RECESSED ITEMS SHALL BE INSTALLED FLUSH WITH PARTITIONS U.N.O. PARTITION DEPTH MUST BE ADJUSTED TO ACCOMMODATE DEPTH OF RECESSED ITEM OR AS DIRECTED BY ARCHITECT.

FLOOR PLAN NOTES:

- INDICATES AREAS OF BUILDING NOT IN CONTRACT
- PATCH EXISTING WALLS WHERE WALLS WERE DEMOLISHED. PREPARE SURFACES TO RECEIVE NEW FINISHES.
- PROVIDE NEW VINYL WALL PROTECTION TO MATCH EXISTING ADJACENT MATERIAL.
- PROVIDE NEW SURFACE MOUNTED VINYL CORNER GUARD TO MATCH EXISTING CORNER GUARDS.

COORDINATION NOTES:

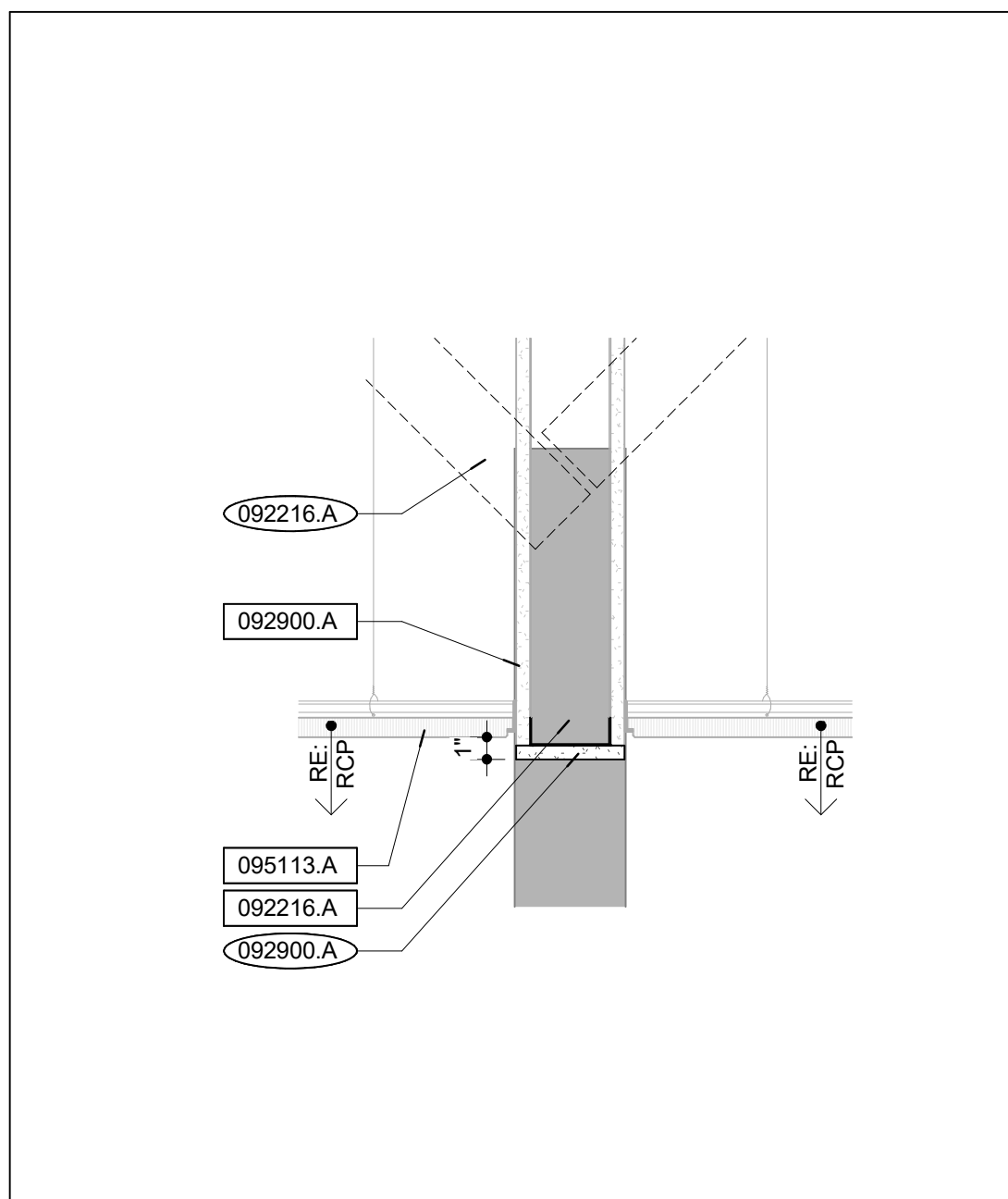
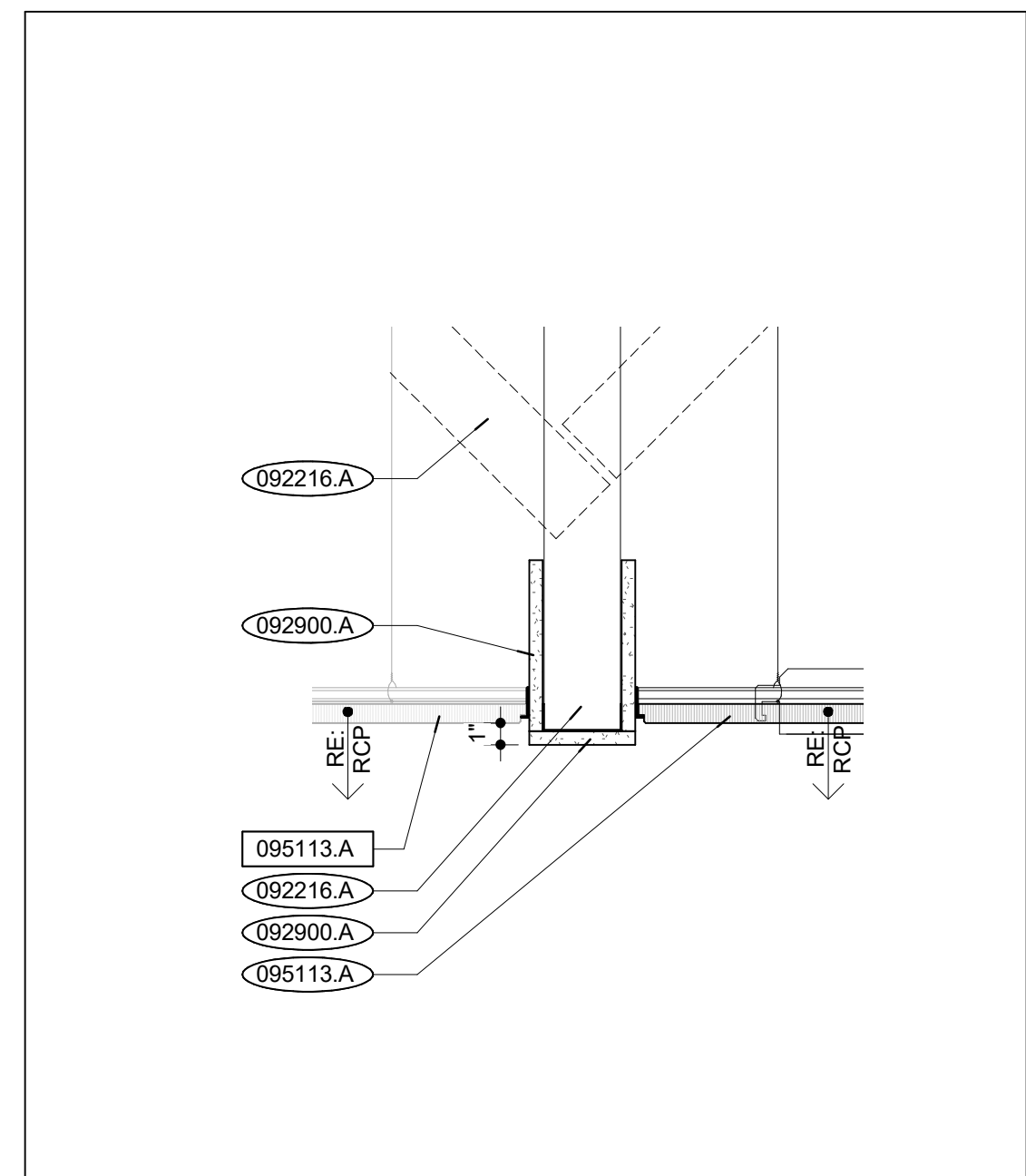
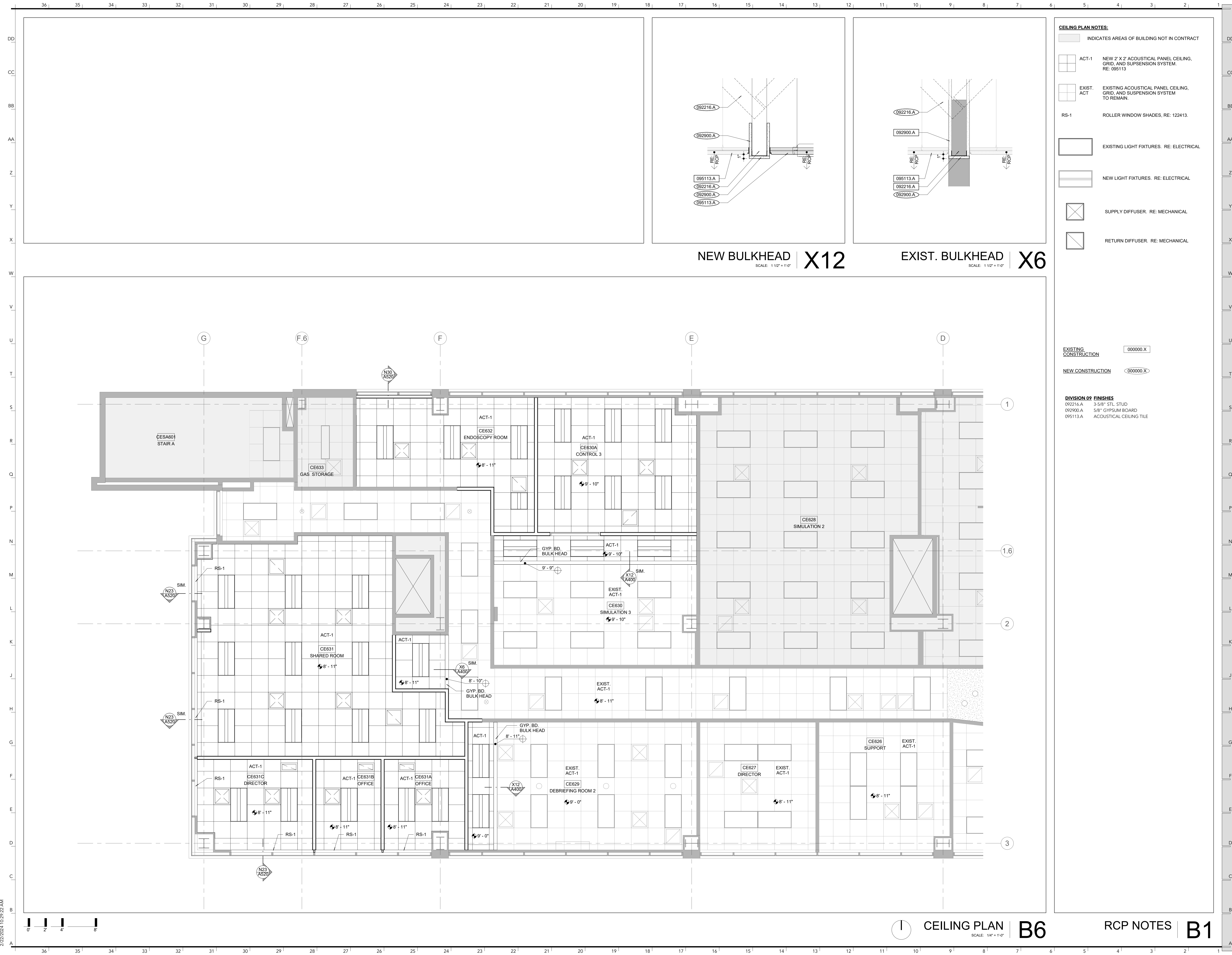
- PROVIDE BLOCKING CONCEALED IN WALLS FOR ALL WALL-MOUNTED WOODWORK, FINISH CARPENTRY ACCESSORIES, CASEWORK, HARDWARE, AND OTHER SIMILARLY MOUNTED ITEMS.
- INSTALL NEW WALL BASE WHERE NEEDED AT CONSTRUCTION OF NEW WALL. MATCH EXISTING TYPE AND COLOR OF ADJACENT WALLS.
- ALL FURNITURE SHOWN DASHED IS FOR REFERENCE ONLY.
- ALL WALLS, EXISTING AND NEW, IN THE CONTRACT AREA SHALL BE PAINTED PT-1 AND SHALL RECEIVE RESILIENT BASE RB-1 UNLESS NOTED OTHERWISE. ALL EXISTING WALLS SHALL BE PREPARED FOR PAINT BY FILLING HOLES, REMOVING ADHESIVE, AND PROVIDING A CLEAN SURFACE.

BASIS OF DESIGN FINISHES:
PAINT (RE: 099123)
PT-1: BENJAMIN MOORE: STEAM AF-15
PT-2: BENJAMIN MOORE: AMSTERDAM AF-550
PT-3: BENJAMIN MOORE: WILMINGTON TAN HC-34

FLOOR PLAN | B6
SCALE: 1/4" = 1'-0"

PLAN NOTES | B1

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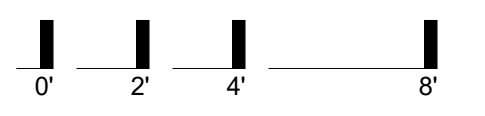


NEW BULKHEAD X12
SCALE: 1/12" = 1'-0"

EXIST. BULKHEAD X6
SCALE: 1/12" = 1'-0"

- CEILING PLAN NOTES:**
- INDICATES AREAS OF BUILDING NOT IN CONTRACT
 - ACT-1 NEW 2' X 2' ACOUSTICAL PANEL CEILING, GRID, AND SUSPENSION SYSTEM. RE: 095113
 - EXIST. ACT EXISTING ACOUSTICAL PANEL CEILING, GRID, AND SUSPENSION SYSTEM TO REMAIN.
 - RS-1 ROLLER WINDOW SHADES. RE: 122413.
 - EXISTING LIGHT FIXTURES. RE: ELECTRICAL
 - NEW LIGHT FIXTURES. RE: ELECTRICAL
 - SUPPLY DIFFUSER. RE: MECHANICAL
 - RETURN DIFFUSER. RE: MECHANICAL

- EXISTING CONSTRUCTION 000000.X
- NEW CONSTRUCTION 000000.X
- DIVISION 02 FINISHES**
- 092216.A 3-5/8" STL STUD
 - 092900.A 5/8" GYPSUM BOARD
 - 095113.A ACOUSTICAL CEILING TILE



CEILING PLAN B6
SCALE: 1/4" = 1'-0"

RCP NOTES B1

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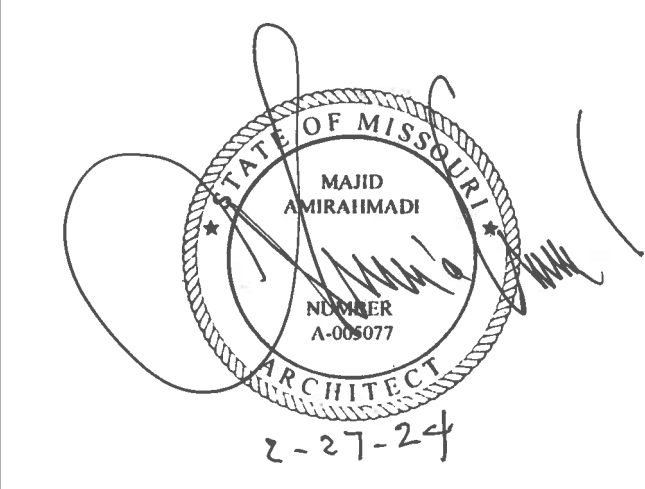
**CLINICAL
SUPPORT AND
EDUCATION
BUILDING - SIM
CENTER
RENOVATION**

ISSUED FOR BID

5 HOSPITAL DR.
COLUMBIA, MO 65201

DATE: 02/27/2024
 PROJ. NO.: CP242241

DESIGNED BY: AS, BJ
 DRAWN BY: AS, BJ
 CHECKED BY: AS, MA
 APPROVED BY: MA



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CEILING PLAN

A400

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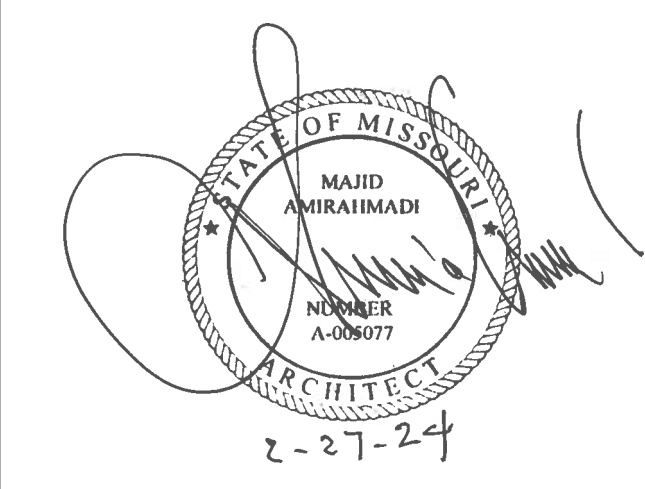
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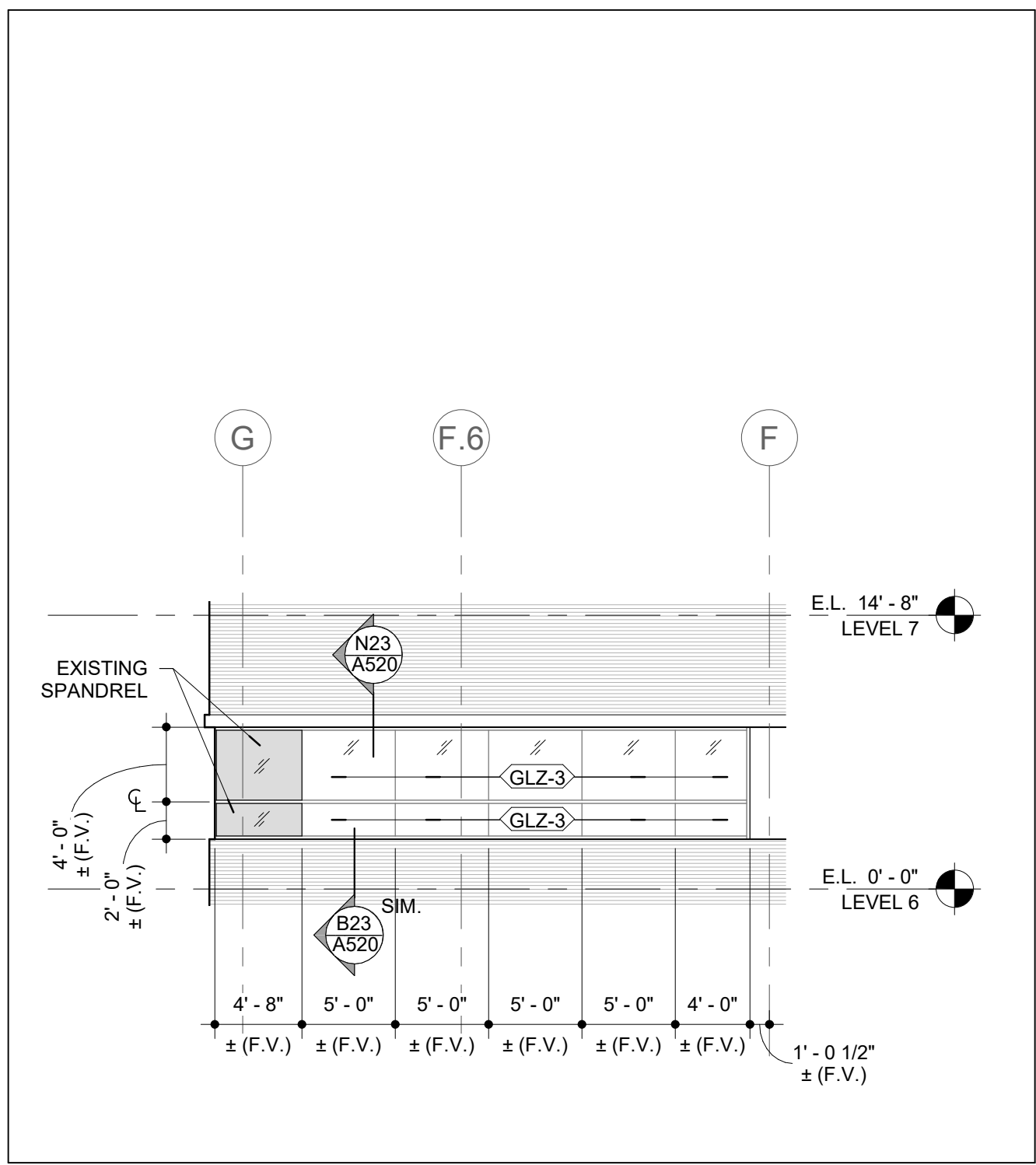
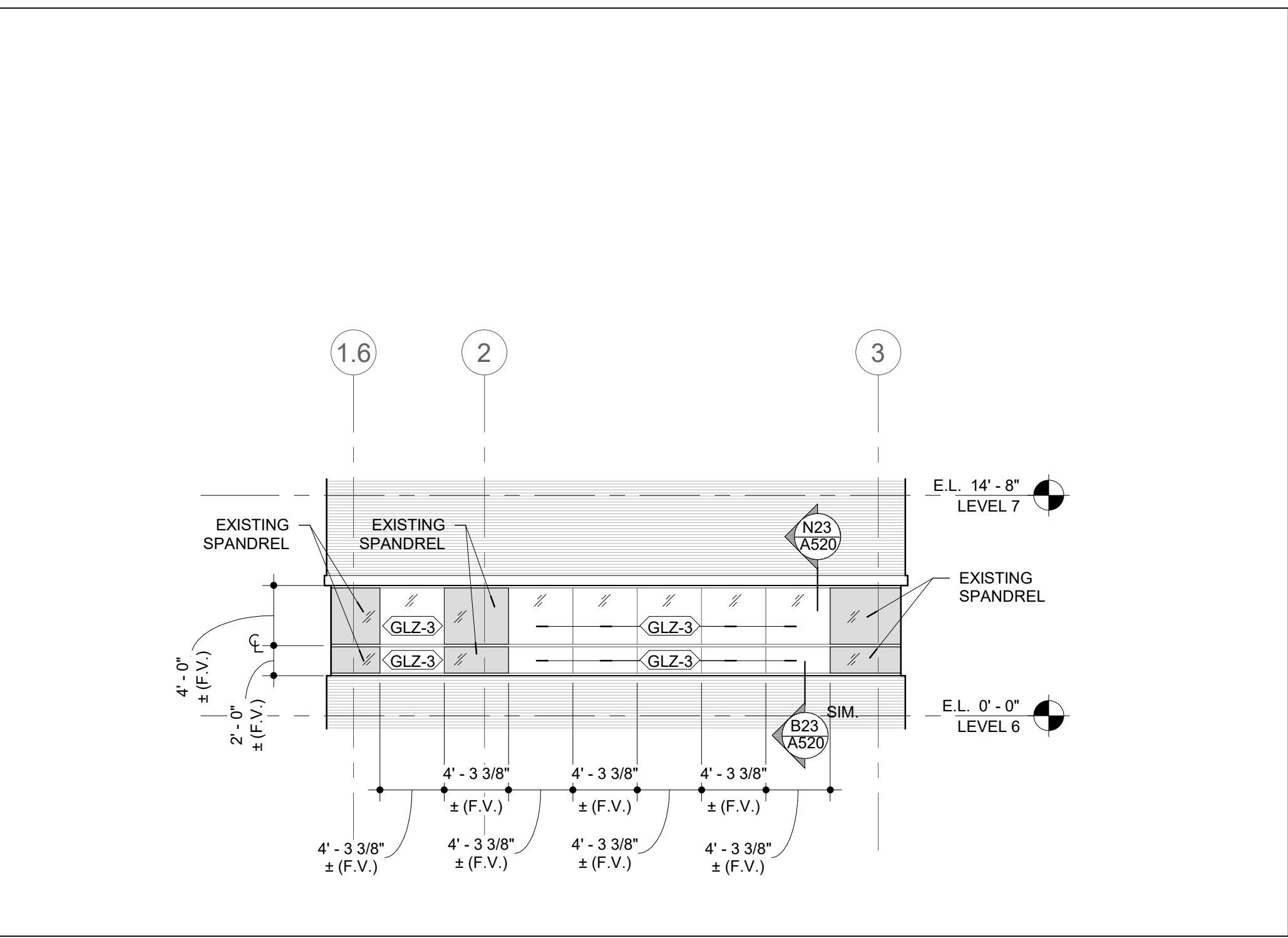
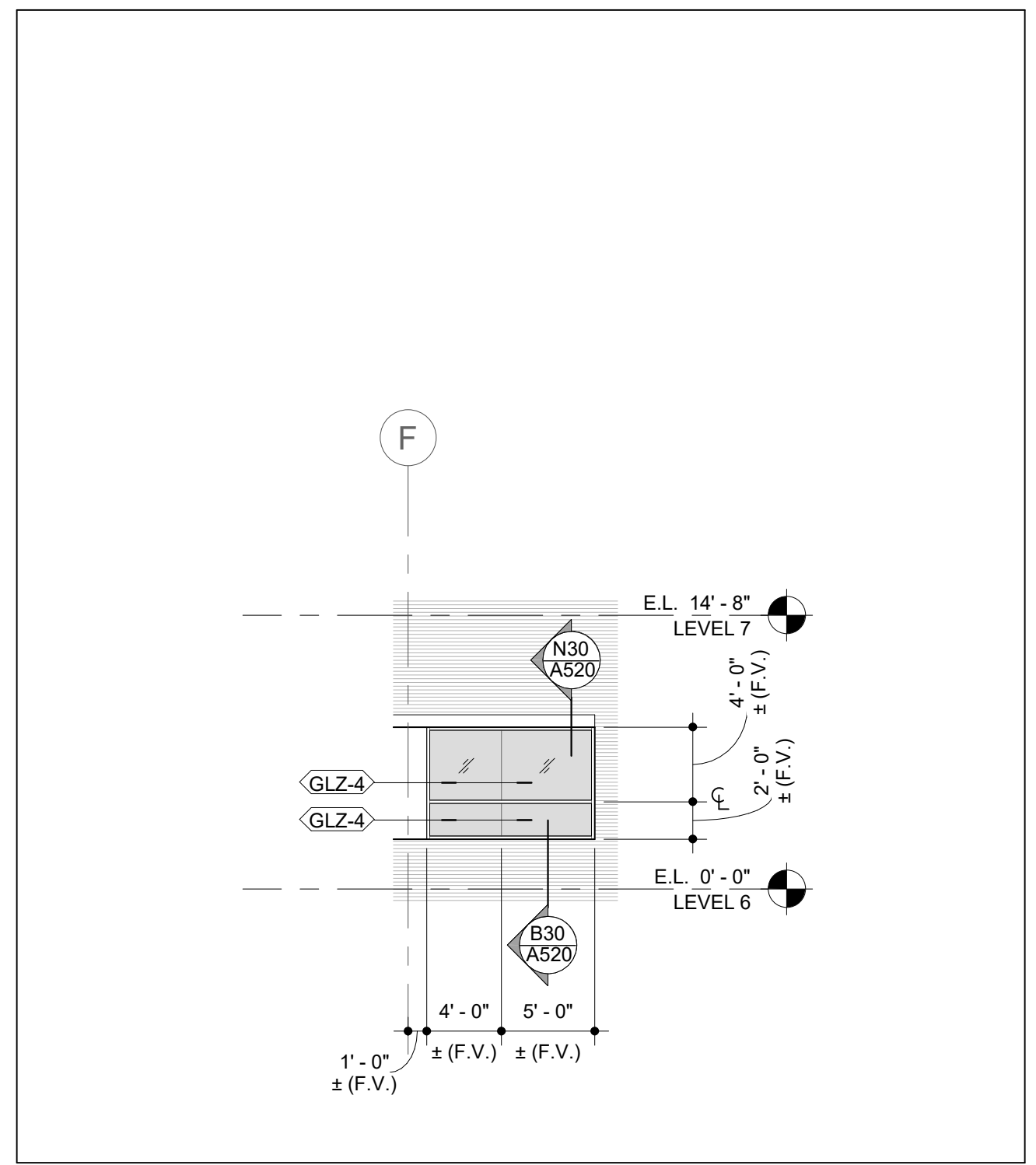
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SECTION DETAILS

A520

GLAZING TYPES:
GLZ-1 1/4" (6mm) CLEAR FULLY TEMPERED GLASS UNIT
SURFACE:
1- NONE
2- NONE
GLZ-3 1" INSULATING GLASS UNIT - LOW-E
- 1/4" (6mm) LOW-E FULLY TEMPERED GLASS
- 1/2" ALUMINUM AIRSPACER
- 1/4" (6mm) CLEAR FULLY TEMPERED GLASS
SURFACE:
1- NONE
2- LOW-E COATING
3- NONE
4- NONE
GLZ-4 1" INSULATING GLASS SPANDREL UNIT - LOW-E
- 1/4" (6mm) HEAT STRENGTHENED GLASS
- 1/2" ALUMINUM AIRSPACER
- 1/4" (6mm) HEAT STRENGTHENED SPANDREL GLASS
SURFACE:
1- NONE
2- NONE
3- NONE
4- OPAQUE COATING



EXISTING CONSTRUCTION 000000.X
EXISTING CONSTRUCTION 000000.X
TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE. REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET.
NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE

DIVISION 04 MASONRY

DIVISION 05 METALS

DIVISION 06 WOOD, PLASTICS + COMPOSITES
064023.A SOLID SURFACE SILL

DIVISION 07 THERMAL + MOISTURE PROTECTION
079200.A JOINT SEALANT

DIVISION 08 OPENINGS
081213.A HOLLOW METAL FRAME
081213.B GLASS STOPS
081416.A WOOD DOOR
088000.A GLAZING
088000.B INSULATED GLAZING
088000.C INSULATED SPANDREL GLAZING

DIVISION 09 FINISHES
092216.A 3/8" STL STUD
092900.A 5/8" GYPSUM BOARD
092900.B SOUND ATTENUATION BLANKETS
092900.D ACOUSTIC PARTITION CLOSURE
095133.A ACOUSTICAL CEILING TILE
096513.A RUBBER BASE
099123.A PAINT

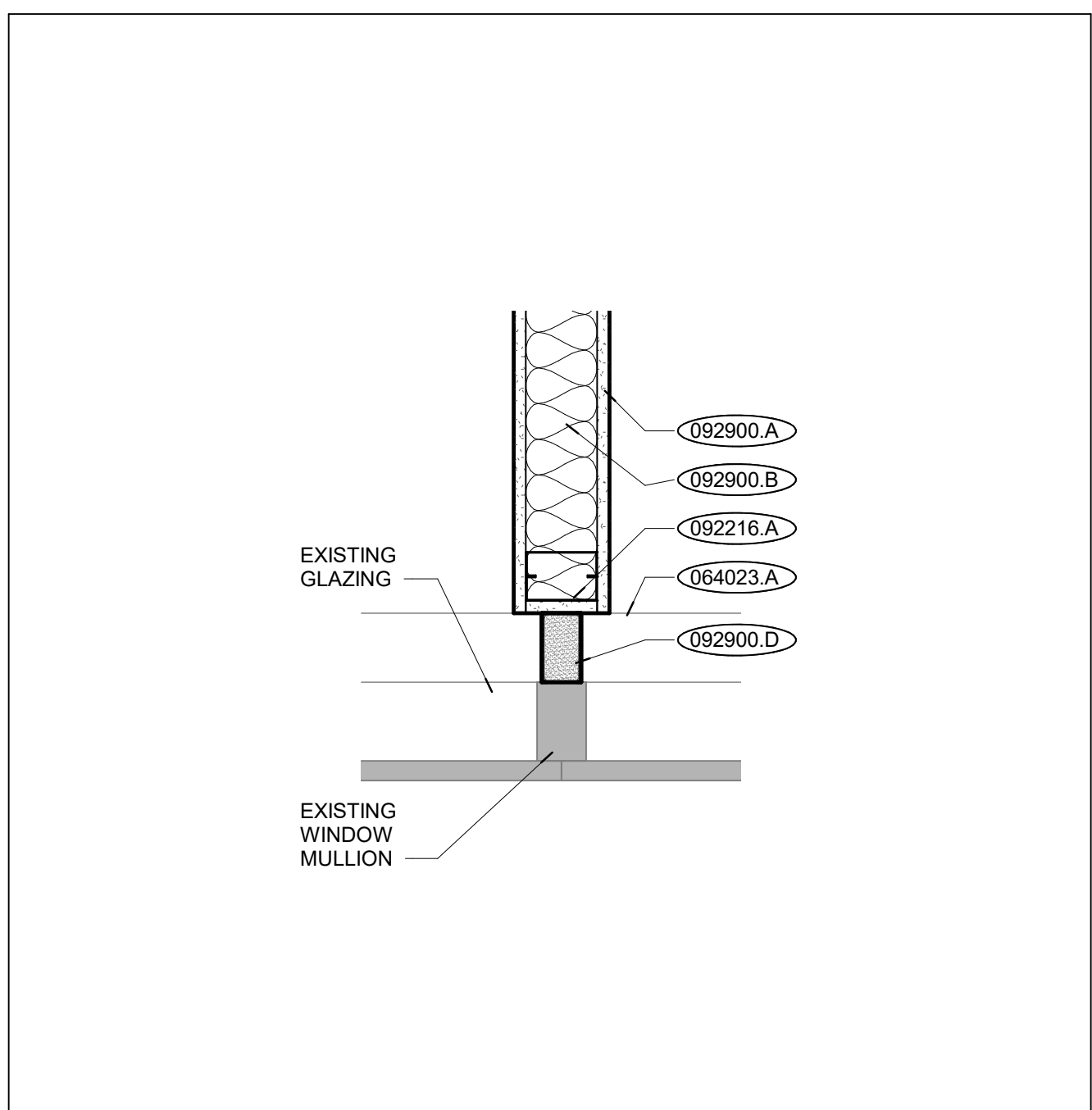
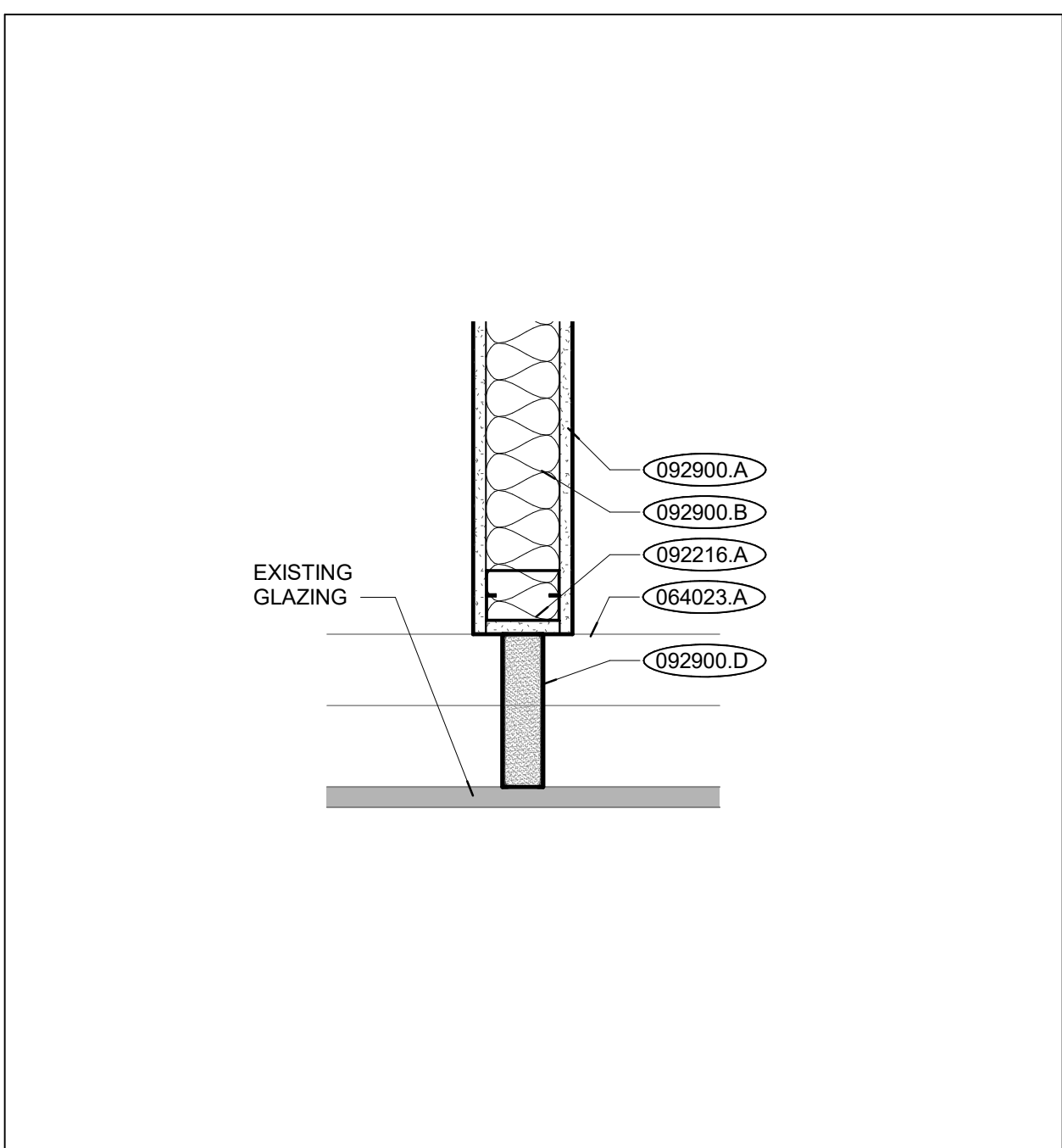
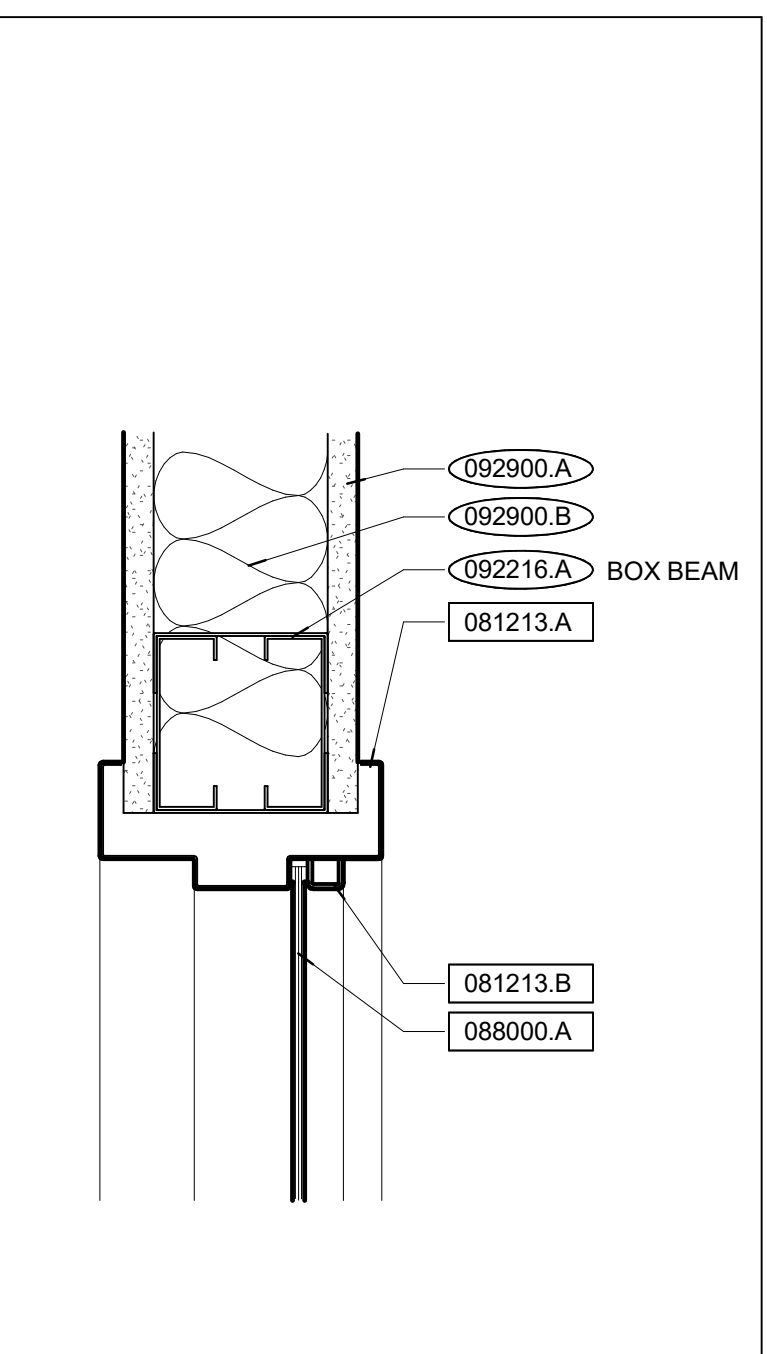
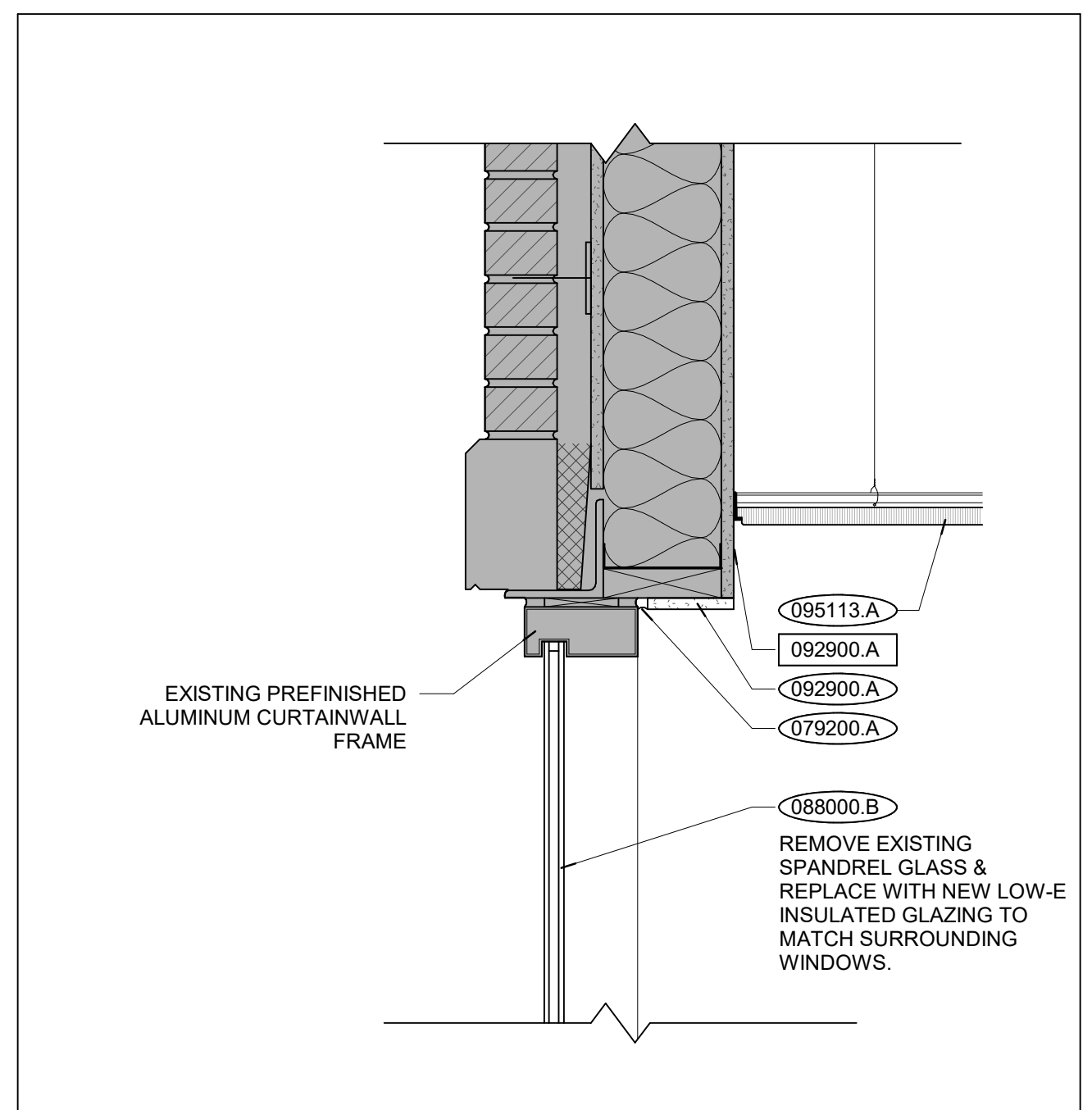
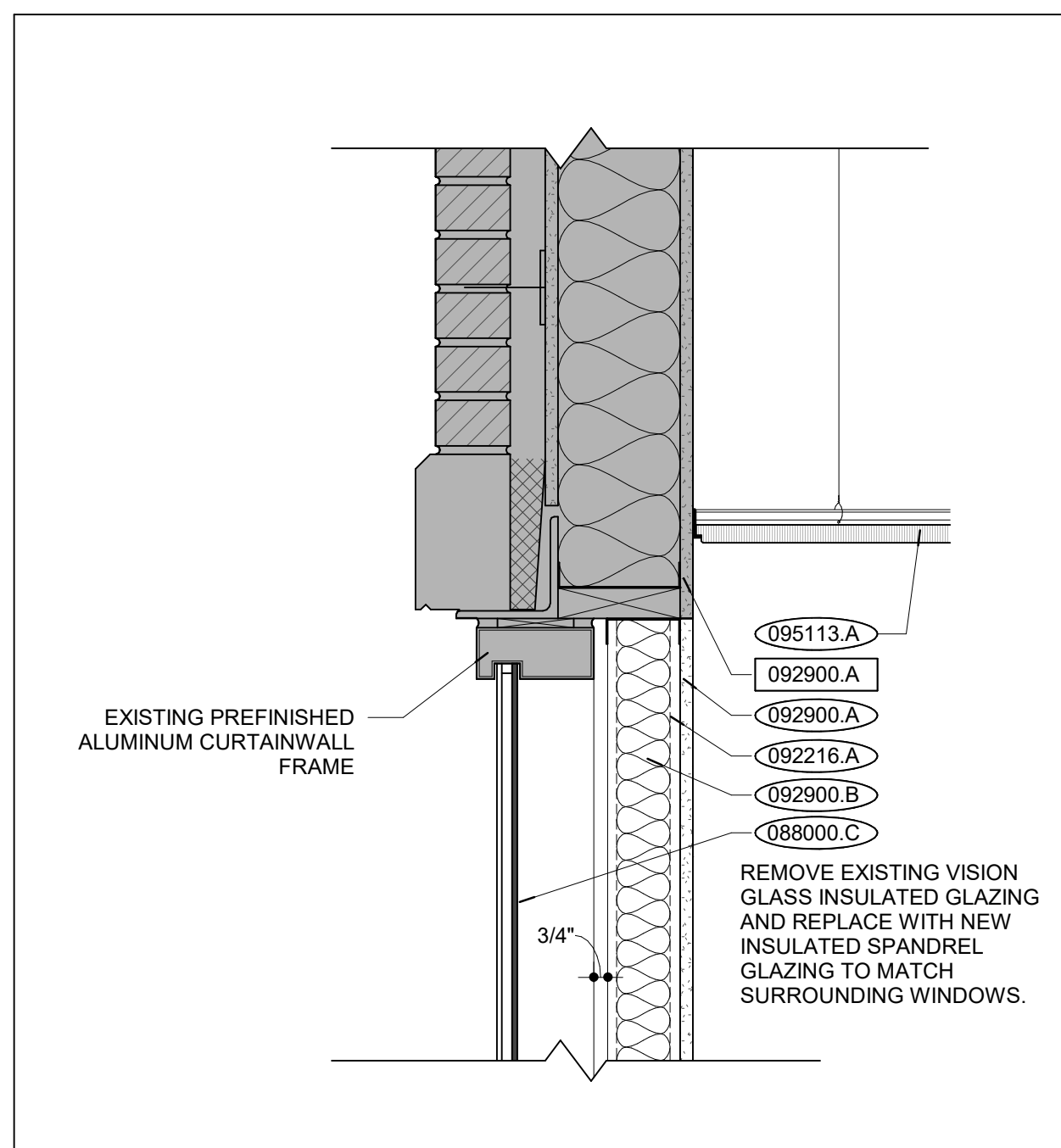
DIVISION 10 SPECIALTIES
DIVISION 11 EQUIPMENT
DIVISION 12 FURNISHINGS
DIVISION 14 CONVEYING EQUIPMENT
DIVISION 22 PLUMBING
DIVISION 26 HVAC
DIVISION 31 ELECTRICAL
DIVISION 32 EXTERIOR IMPROVEMENTS

GLAZING TYPES W30

NORTH ELEVATION GLAZING W23
SCALE: 1/8" = 1'-0"

WEST ELEVATION GLAZING W12
SCALE: 1/8" = 1'-0"

SOUTH ELEVATION GLAZING W5
SCALE: 1/8" = 1'-0"



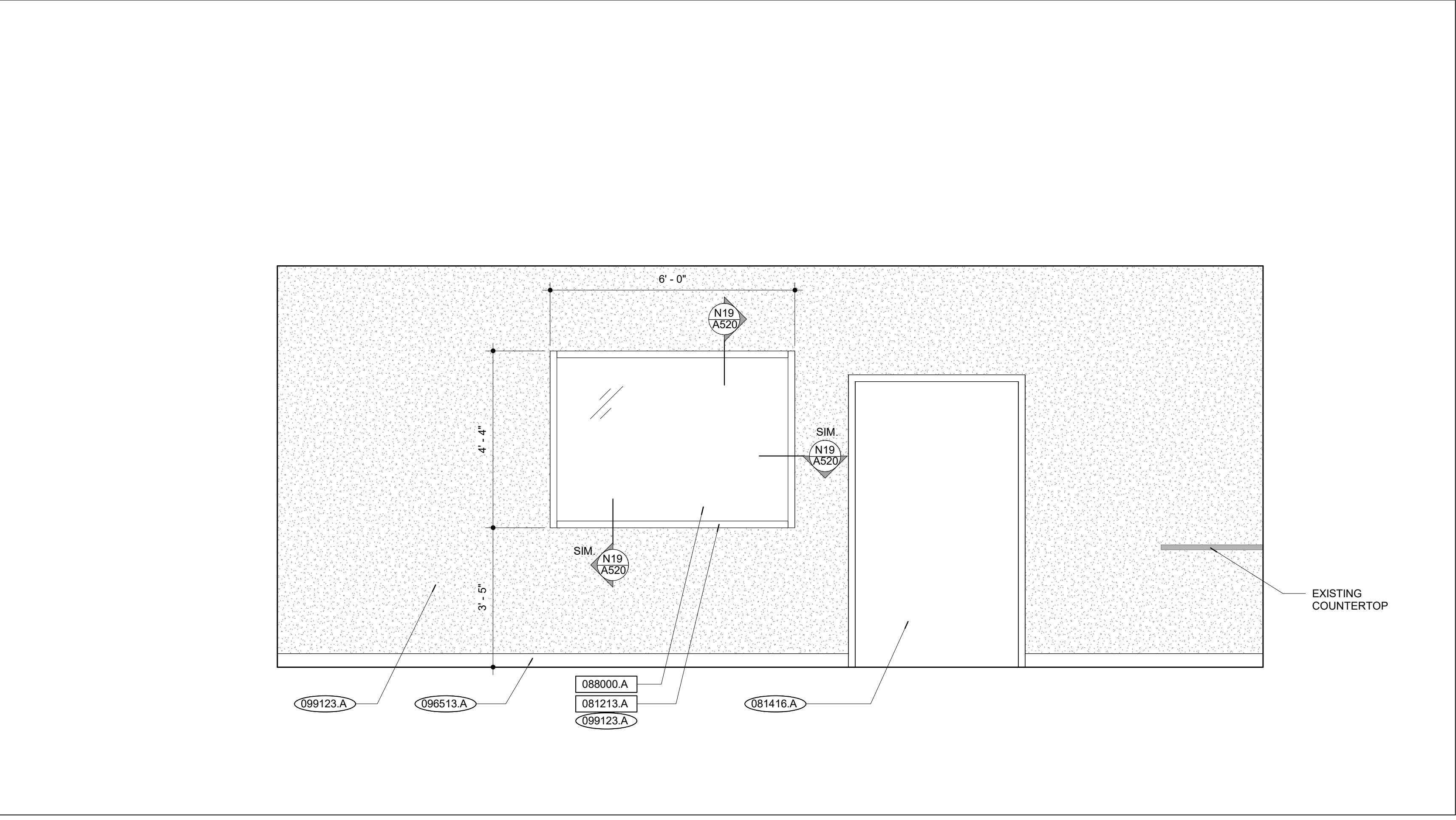
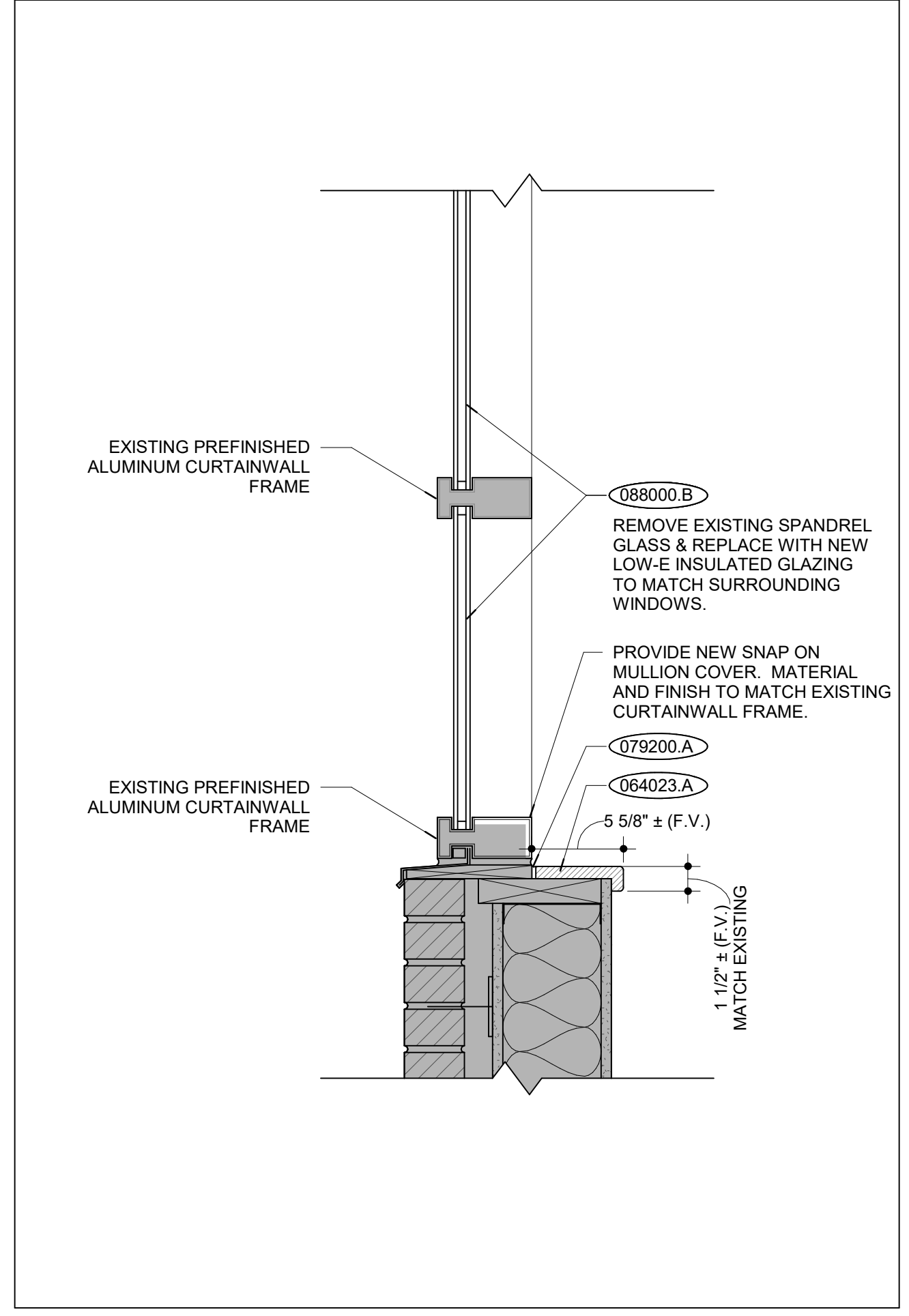
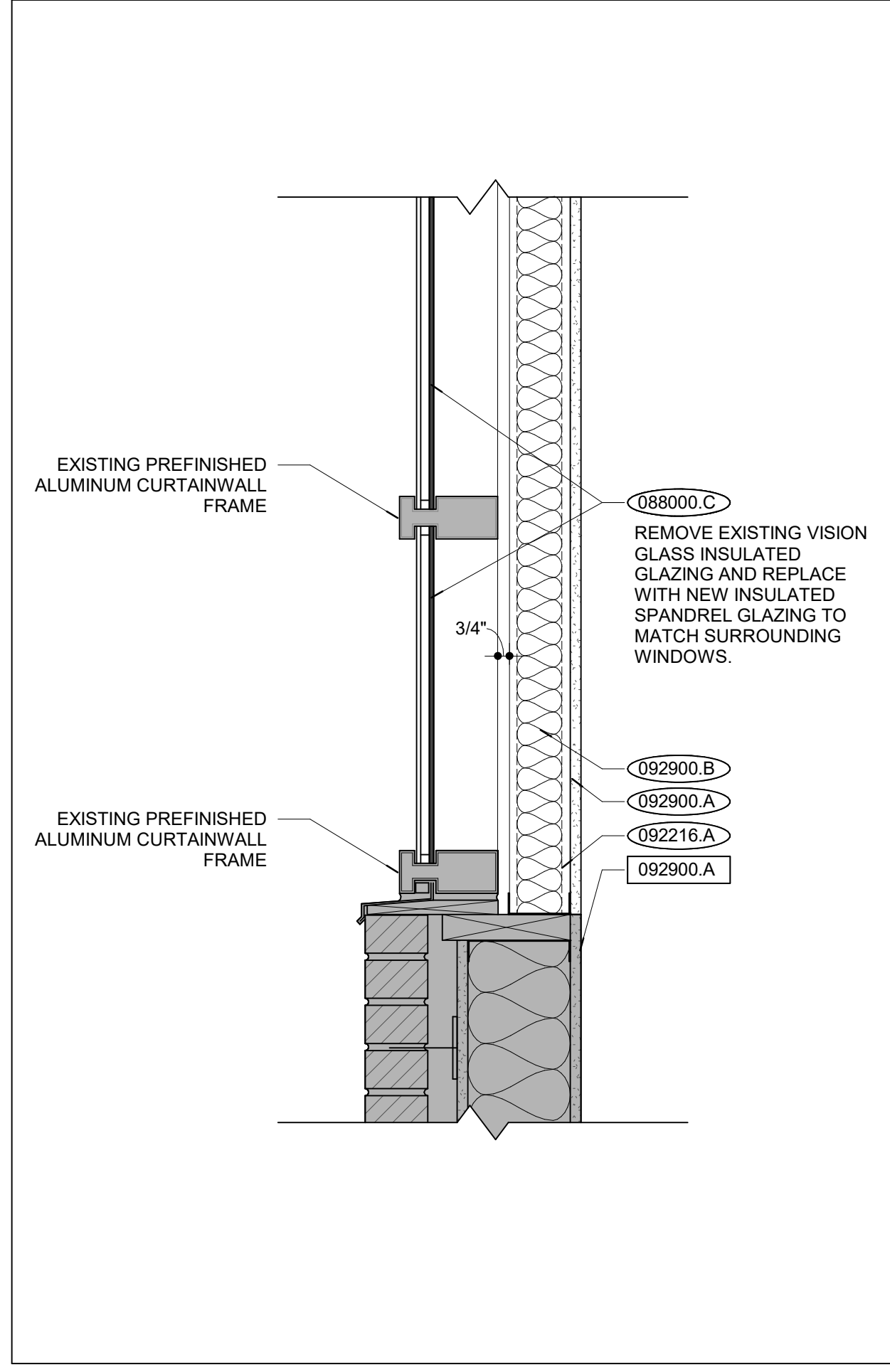
WINDOW HEAD - CLOSE N30
SCALE: 1/12" = 1'-0"

WINDOW HEAD - OPEN N23
SCALE: 1/12" = 1'-0"

HM FRAME N19
SCALE: 3/4" = 1'-0"

GAP CLOSURE @ GLAZING N12
SCALE: 1/12" = 1'-0"

GAP CLOSURE @ MULLION N5
SCALE: 1/12" = 1'-0"



WINDOW SILL - CLOSE B30
SCALE: 1/12" = 1'-0"

WINDOW SILL - OPEN B23
SCALE: 1/12" = 1'-0"

CONTROL ROOM ELEVATION B5
SCALE: 1/2" = 1'-0"

KEYNOTES B1



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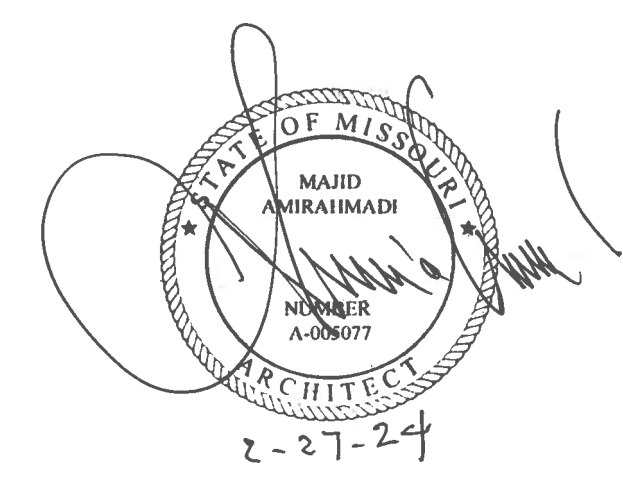
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DRAWN BY: AS, SJ

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APPROVED BY: MA

SCALE:



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DOOR SCHEDULE & FINISH SCHEDULE

A700

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DOOR SCHEDULE															
DOOR	SIZE			# LEAVES	DOOR TYPE				GLAZING TYPE	FIRE RATING	HARDWARE	DETAIL DRAWINGS			COMMENTS
	HEIGHT	THICKNESS	WIDTH		EXIST.	ST-1	HM-1	PT-6				HEAD	JAMB	THRESHOLD	
630A	7'-0"	0'-1 3/4"	4'-0"	1	EXIST.	EXIST.	EXIST.	PT-6	-	EXIST.	R16/A700	R10/A700	-	1, 2	
631	7'-0"	0'-1 3/4"	3'-0"	1	WD-2	ST-1	HM-1	PT-6	-	1	R16/A700	R10/A700	-		
631A	7'-0"	0'-1 3/4"	3'-0"	1	WD-1	ST-1	HM-1	PT-6	-	2	R16/A700	R10/A700	-		
631B	7'-0"	0'-1 3/4"	3'-0"	1	WD-1	ST-1	HM-1	PT-6	-	2	R16/A700	R10/A700	-		
631C	7'-0"	0'-1 3/4"	3'-0"	1	WD-1	ST-1	HM-1	PT-6	-	2	R16/A700	R10/A700	-		
632	7'-0"	0'-1 3/4"	3'-0"	1	EXIST.	EXIST.	EXIST.	PT-6	-	1	R16/A700	R10/A700	-	2, 3	

DOOR MATERIAL		FRAME MATERIAL		GLAZING TYPES	
WD	SOLID-CORE WOOD DOOR, RE: 081416	HM	HOLLOW METAL FRAME, RE: 081113	GLZ-1	1/4" FULLY TEMPERED, RE: 088000

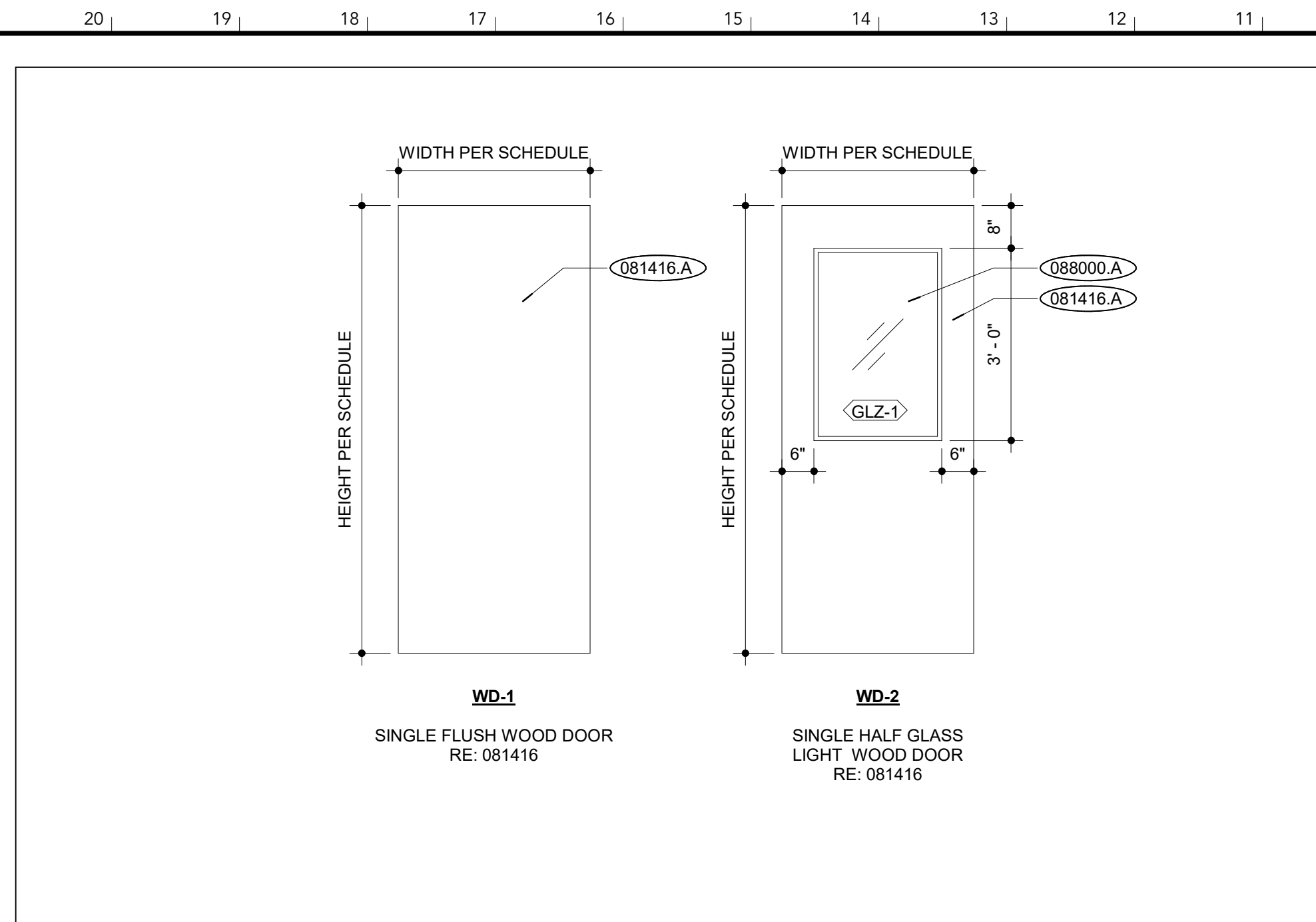
DOOR / FRAME FINISH		GENERAL DOOR COMMENTS		
PT	PAINT, RE: 099123	1	INSTALL FRAME PROTECTION, RE: 102800	
ST	STAIN TO MATCH EXISTING DOORS	2	REINSTALL SALVAGED EXISTING HOLLOW METAL FRAME AND WOOD DOOR AT NEW LOCATION SHOWN ON PLAN.	
		3	REMOVE EXISTING DOOR HARDWARE AND PREPARE EXISTING DOORS AND FRAMES TO RECEIVE NEW HARDWARE SET, RE: 087100	

GLAZING TYPES:

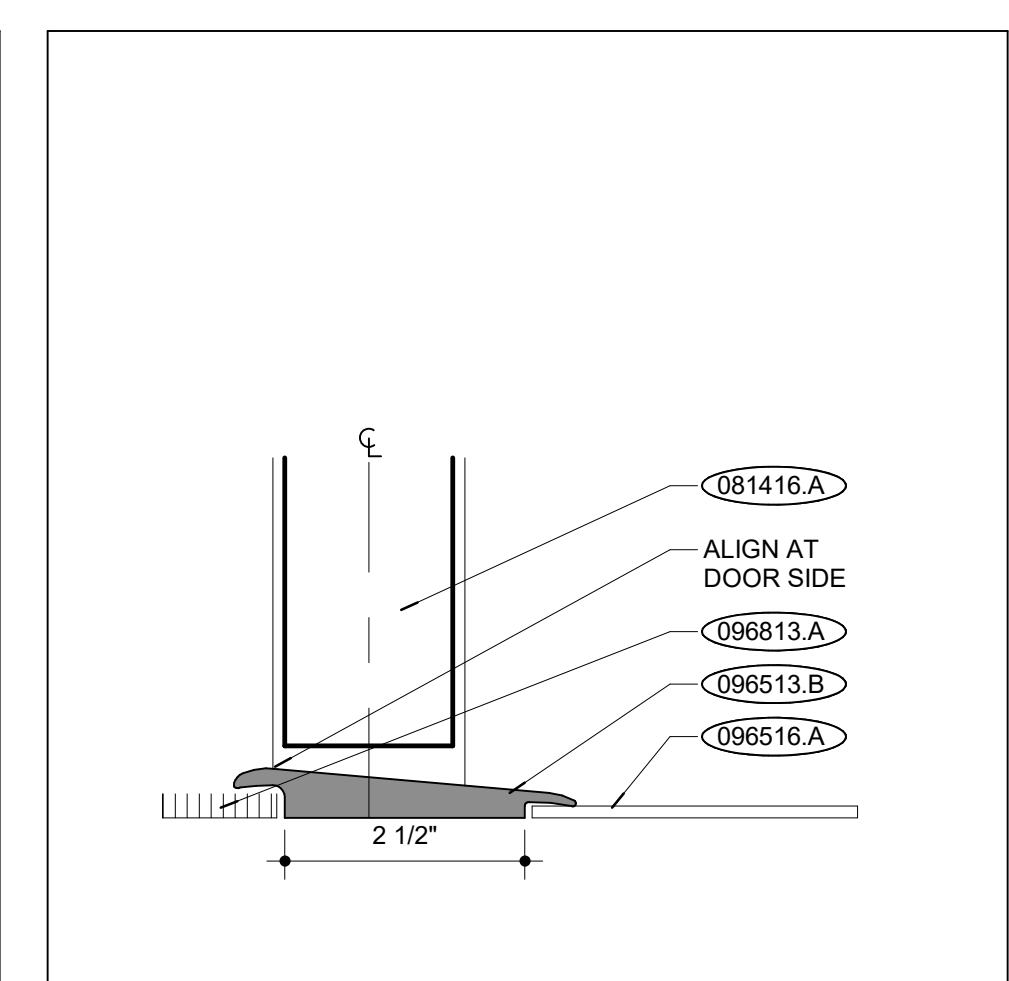
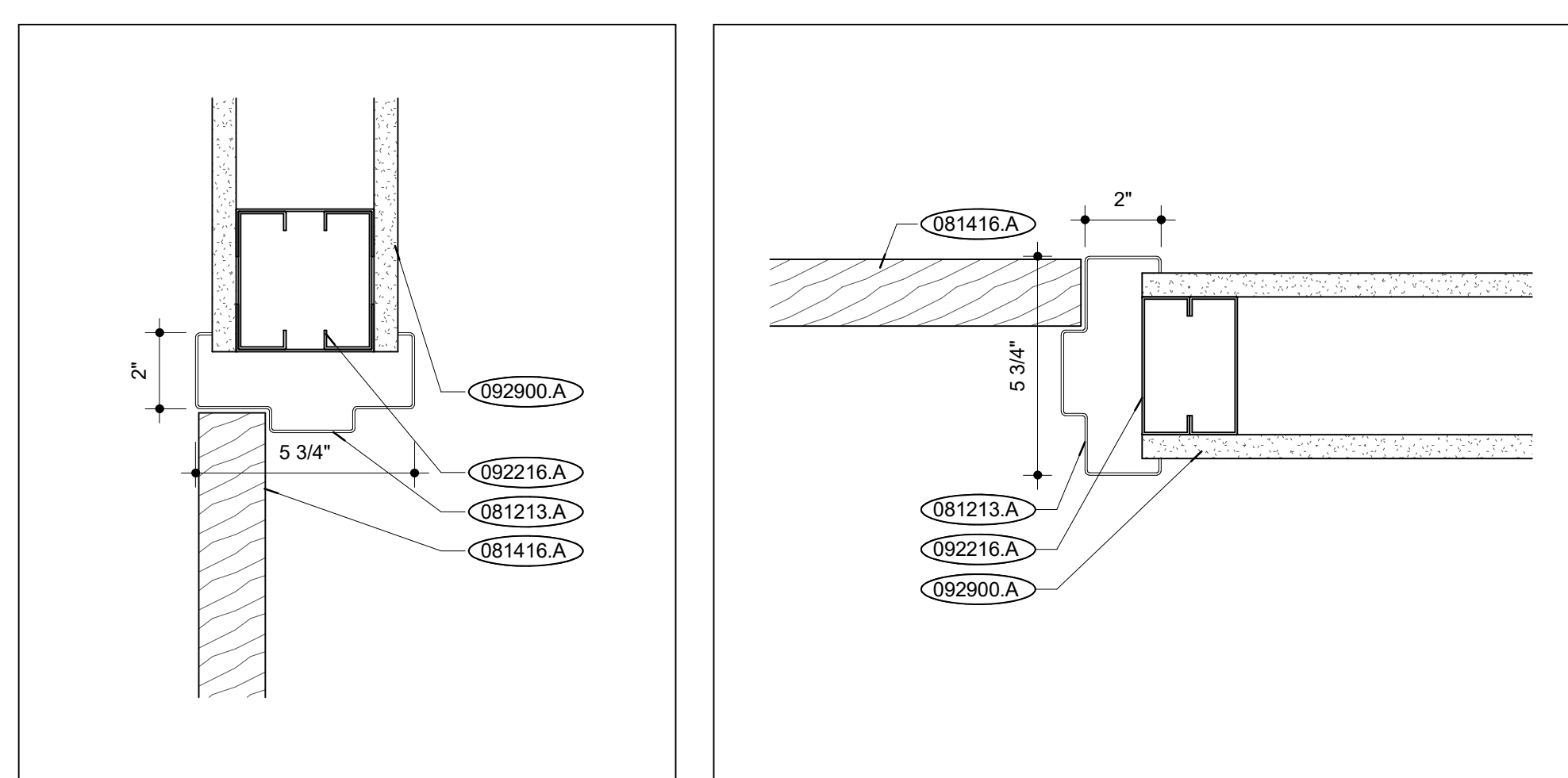
GLZ-1 1/4" (6mm) CLEAR FULLY TEMPERED GLASS UNIT
SURFACE:
1 - NONE
2 - NONE

GLZ-3 1" INSULATING GLASS UNIT - LOW-E
- 1/4" (6mm) LOW-E FULLY TEMPERED GLASS
- 1/2" ALUMINUM AIRSPACER
- 1/4" (6mm) CLEAR FULLY TEMPERED GLASS
SURFACE:
1 - NONE
2 - LOW-E COATING
3 - NONE
4 - NONE

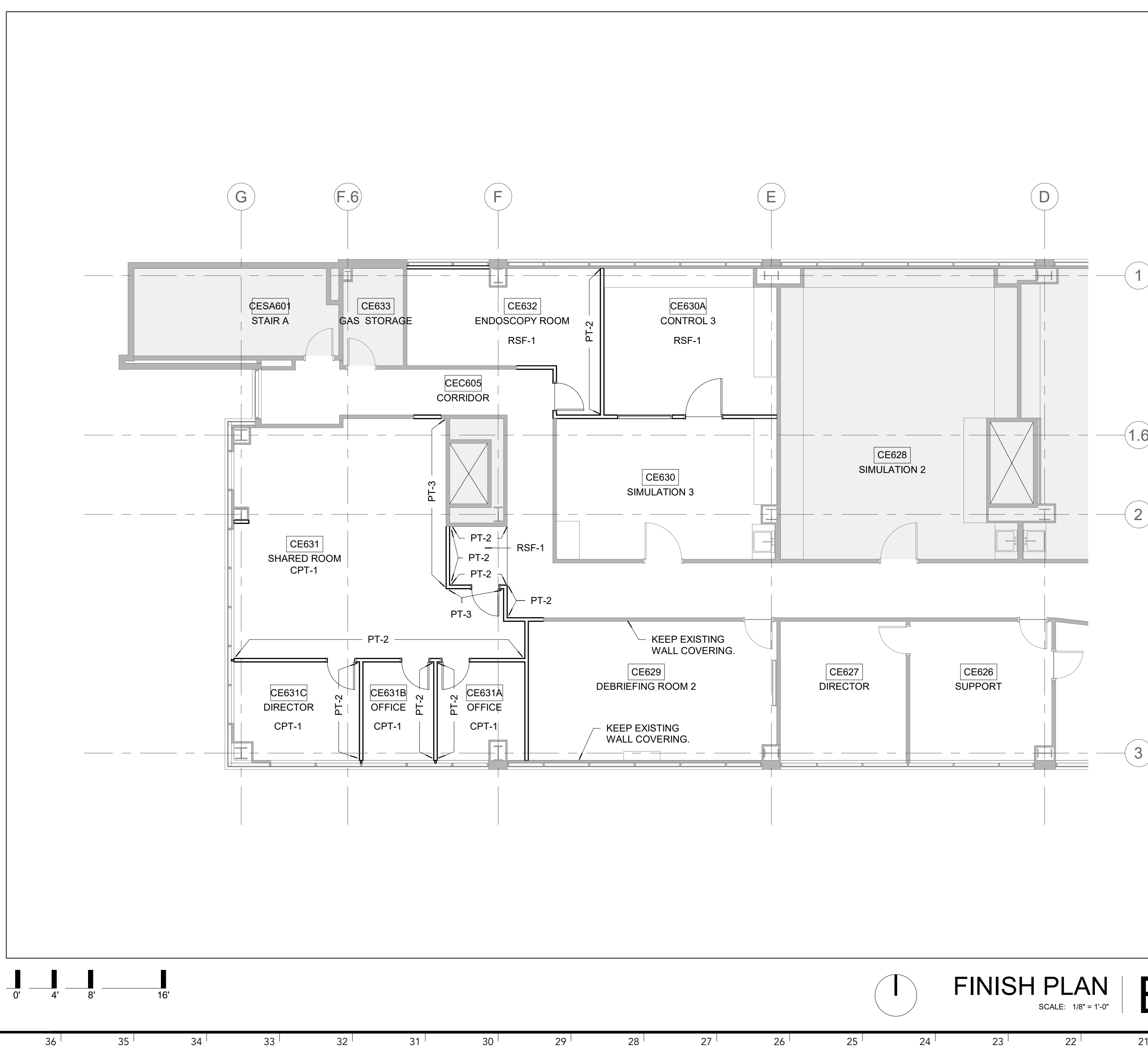
GLZ-4 1" INSULATING GLASS SPANDREL UNIT - LOW-E
- 1/4" (6mm) HEAT STRENGTHENED GLASS
- 1/2" ALUMINUM AIRSPACER
- 1/4" (6mm) HEAT STRENGTHENED SPANDREL GLASS
SURFACE:
1 - NONE
2 - NONE
3 - NONE
4 - OPAQUE COATING



DOOR TYPES | X10 DOOR FRAME TYPES | X5



DOOR SCHEDULE | R21 HM HEAD DTL. | R16 HM JAMB DTL. | R10 CARPET - RSF | R5



ROOM FINISH SCHEDULE									
ROOM NO.	NAME	FLOOR FINISH	BASE FINISH	WALLS				CEILING FINISH	COMMENTS
				NORTH	EAST	SOUTH	WEST		
CE631A	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-2	ACT-1	
CE631B	OFFICE	CPT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACT-1	
CE631C	DIRECTOR	CPT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACT-1	
CE631	SHARED ROOM	CPT-1	RB-1	PT-1	PT-3/PT-1	PT-2	PT-1	ACT-1	3
CE632	ENDOSCOPY ROOM	RSF-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACT-1	
CE629	DEBRIEFING ROOM 2	EXIST.	RB-1	EXIST./PT-4	PT-1	EXIST.	PT-1	EXIST./ACT-1	1, 2
CE630	SIMULATION 3	EXIST.	EXIST./RB-2	PT-1	EXIST.	EXIST.	EXIST.	EXIST.	1, 2
CE630A	CONTROL 3	RSF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
CE605	CORRIDOR	EXIST./RSF-1	EXIST./RB-2	EXIST./PT-2/PT-4	EXIST./PT-4	EXIST./PT-2/PT-4	EXIST./PT-2/PT-4	EXIST./ACT-1	1, 2, 3
CE627	DIRECTOR	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	
CE626	SUPPORT	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	

FLOOR FINISHES		BASE FINISHES	
CPT	CARPET TILE, RE: 096813	RB	RESILIENT BASE, RE: 096513
EXIST.	EXISTING FLOOR FINISH TO REMAIN		
RSF	RESILIENT SHEET FLOORING, RE: 096516		

WALL FINISHES		CEILING FINISHES	
EXIST.	EXISTING WALL FINISH TO REMAIN	ACT	ACOUSTICAL CEILING TILE, RE: 095113
PT	PAINT, RE: 099123	EXIST.	EXISTING CEILING FINISH TO REMAIN
		PT	PAINT, RE: 099123

GENERAL FINISH COMMENTS	
1	PATCH AND REPAIR EXISTING FINISHES AS REQUIRED AFTER NEW CONSTRUCTION IS INSTALLED
2	GYP. BD. BULK HEAD TO BE PAINTED PT-3, U.N.O.
3	RE: B20/A700 FOR MORE DETAILED WALL FINISH EXTENTS

ROOM FINISH SCHEDULE | B5

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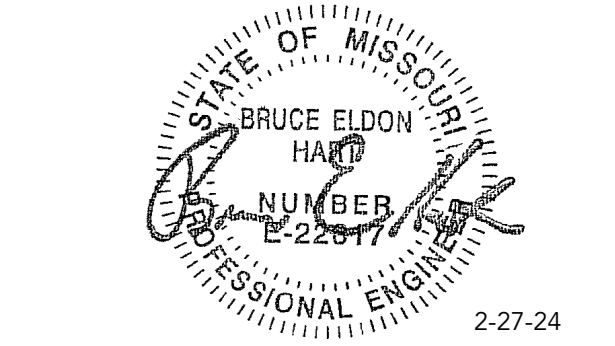
DESIGNED BY: CSB

DRAWN BY: CSB

CHECKED BY: SGB

APPROVED BY: SGB

SEAL:



Bruce E. Hart - Engineer

MO: E-22817

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MECHANICAL COVERSHEET

M000

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FIRE PROTECTION GENERAL NOTES:

- 1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR... 17. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT...

MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL... 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL... 17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.

VENTILATION GENERAL NOTES:

- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH... 6. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

PLUMBING GENERAL NOTES:

- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE... 2. INSTALL ALL REFRIGERANT LIQUID AND SUCION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

MECHANICAL SYMBOL LIST table with columns SYMBOL and DESCRIPTION. Includes items like COMPRESSED AIR, CARBON DIOXIDE, COLD WATER - POTABLE, etc.

MECHANICAL ABBREVIATION KEY table with columns ABBR and DESCRIPTION. Includes items like ACCESS DOOR, ABOVE FINISHED FLOOR, BACKFLOW PREVENTER, etc.

MECHANICAL SYMBOL LIST table with columns SYMBOL and DESCRIPTION. Includes items like CA, CO2, CW, CWR, CWS, FP, HW, HWC, HWR, HWS, MA, MV, N, NO, O, SAN, ST(1,000), STS, V, VAC, WAGD, etc.

VIEW KEY section containing a north arrow, view name diagram, and line type and tag key.

CONTRACTOR ABBREVIATION KEY table with columns ABBR and DESCRIPTION. Includes items like ASBESTOS ABATEMENT CONTRACTOR, AUDIOVISUAL CONTRACTOR, etc.

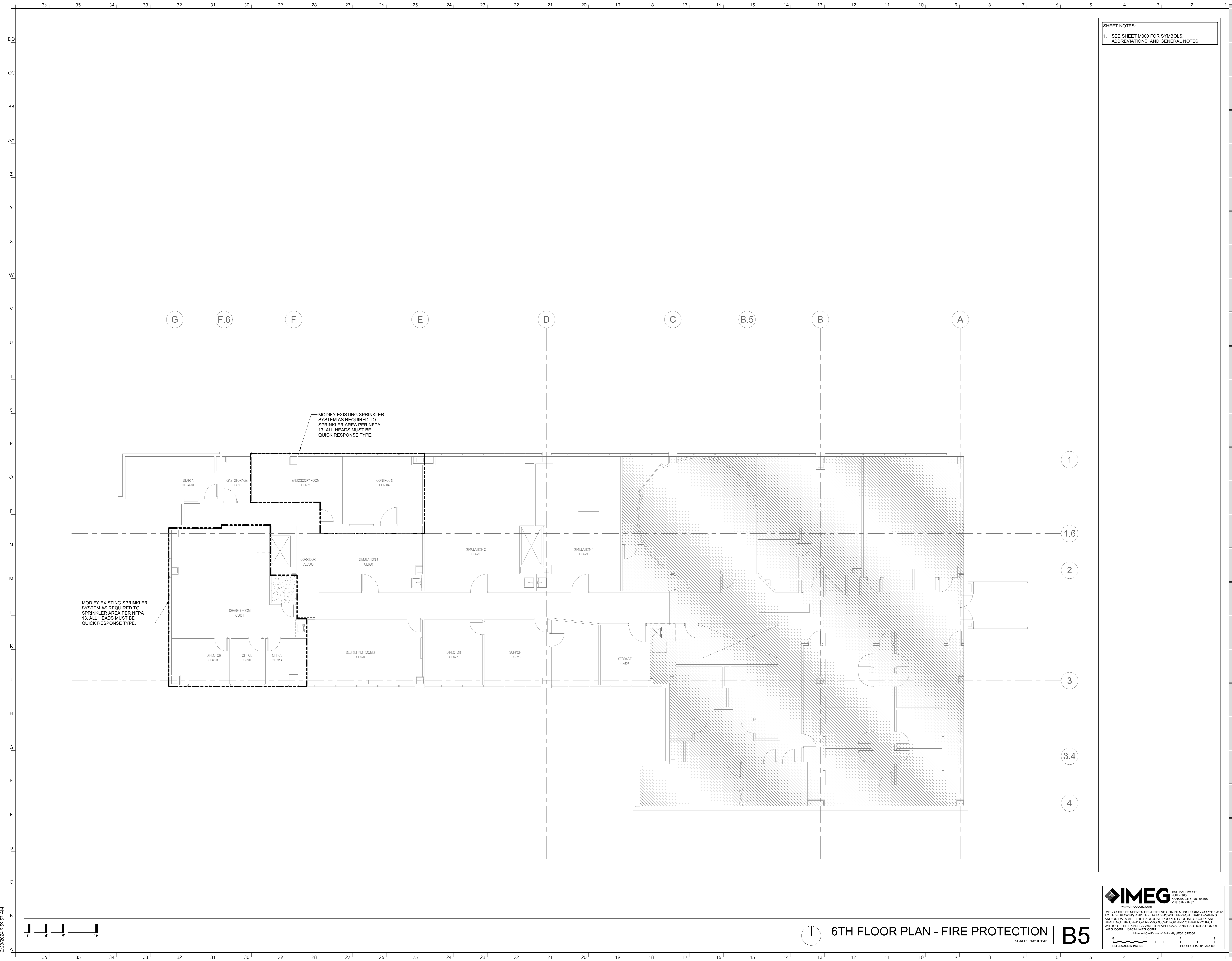
MECHANICAL SHEET INDEX table listing sheet numbers and titles such as M500 MECHANICAL DIAGRAMS, M000 MECHANICAL COVERSHEET, etc.

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SHEET NOTES:
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MODIFY EXISTING SPRINKLER SYSTEM AS REQUIRED TO SPRINKLER AREA PER NFPA 13. ALL HEADS MUST BE QUICK RESPONSE TYPE.

MODIFY EXISTING SPRINKLER SYSTEM AS REQUIRED TO SPRINKLER AREA PER NFPA 13. ALL HEADS MUST BE QUICK RESPONSE TYPE.

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6TH FLOOR PLAN - FIRE PROTECTION | B5
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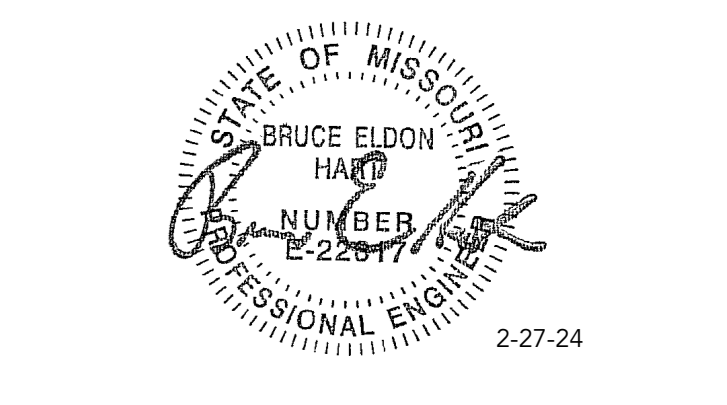
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 MQR: E-22817
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6TH FLOOR FIRE
 PROTECTION PLAN

F206



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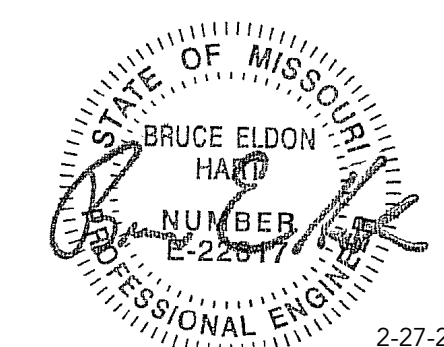
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6TH FLOOR DEMO PLAN -
 PLUMBING & MED GAS

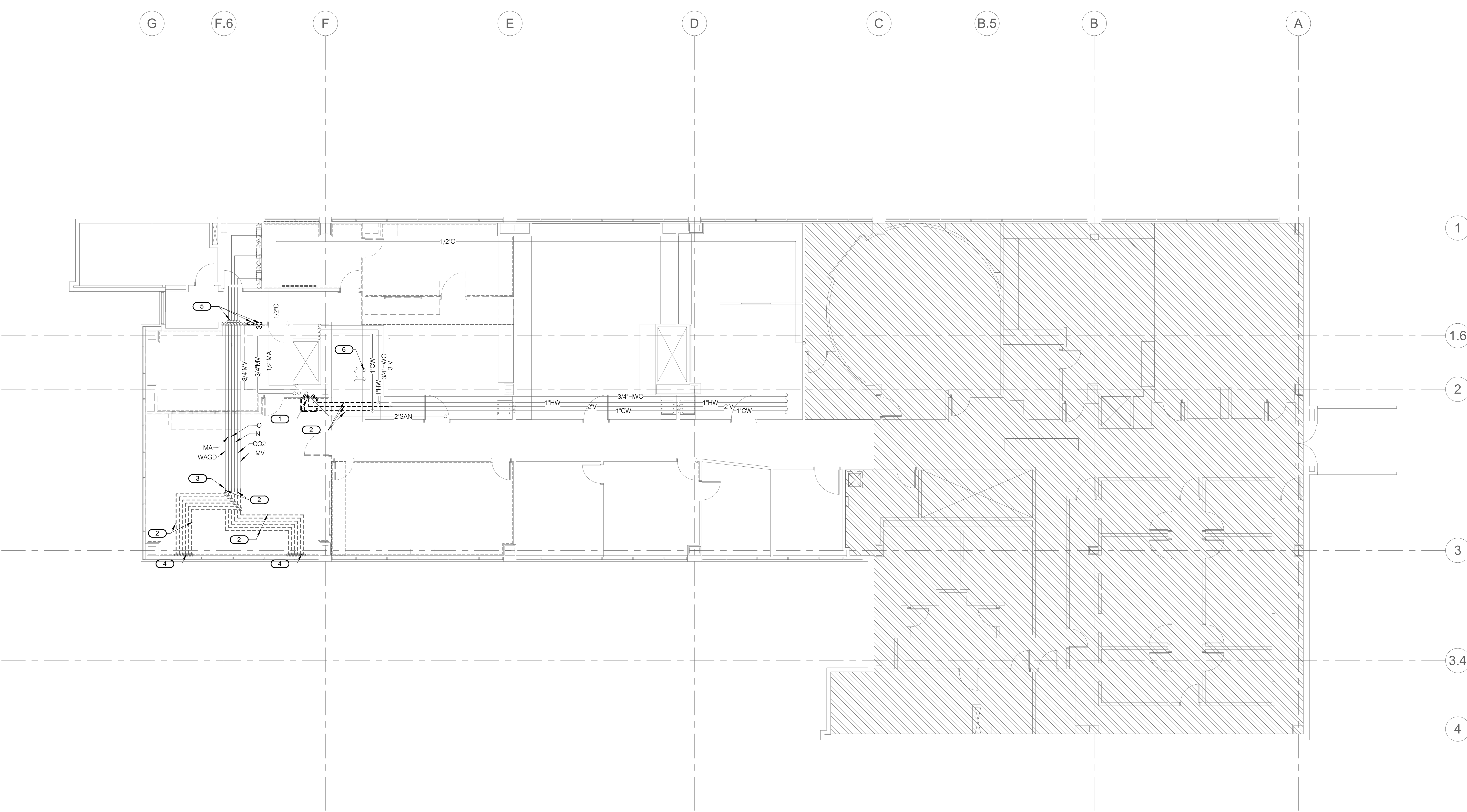
P106

SHEET NOTES:

- SEE SHEET M000 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

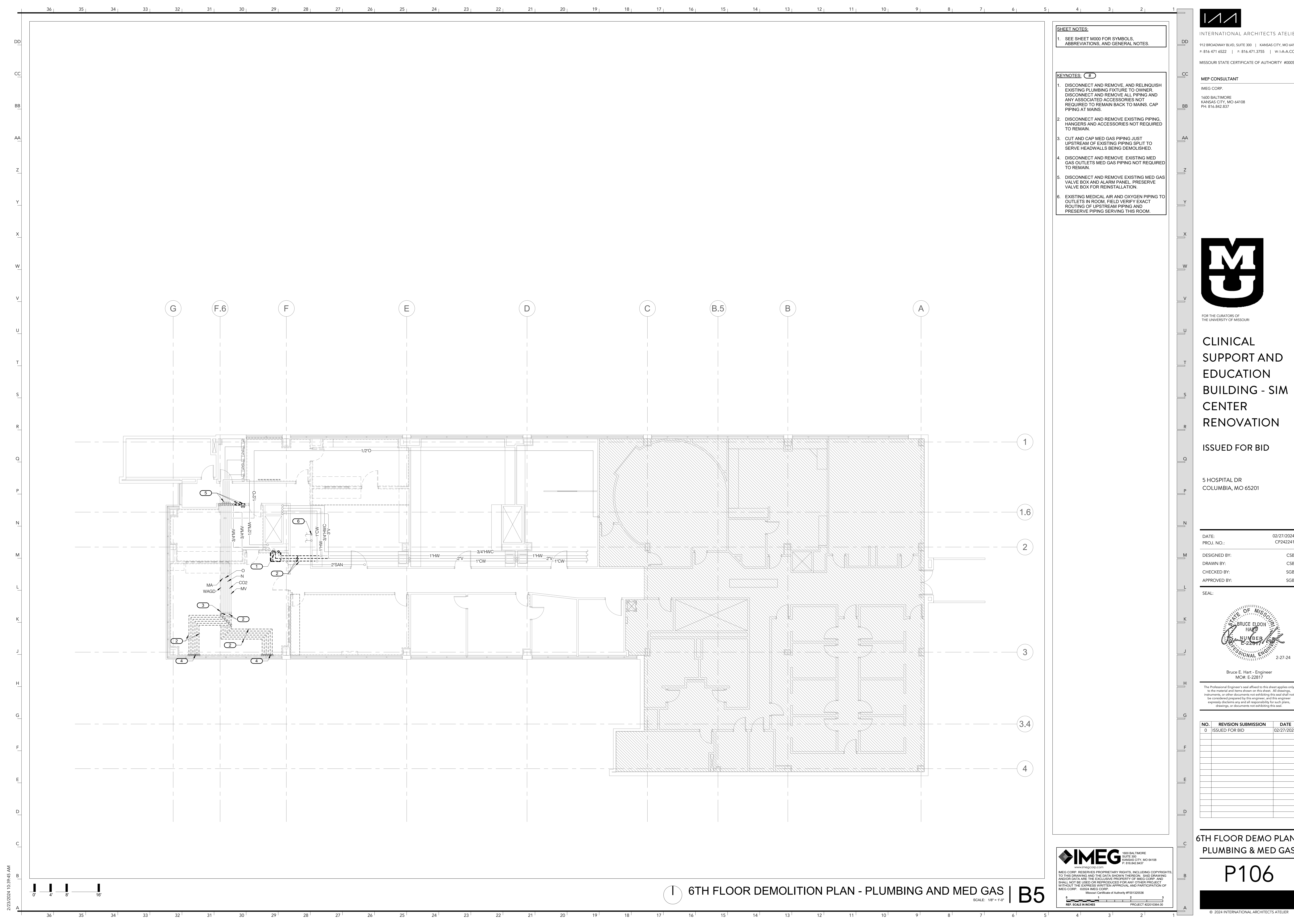
KEYNOTES: (KEYNOTES)

- DISCONNECT AND REMOVE, AND RELINQUISH EXISTING PLUMBING FIXTURE TO OWNER. DISCONNECT AND REMOVE ALL PIPING AND ANY ASSOCIATED ACCESSORIES NOT REQUIRED TO REMAIN BACK TO MAINS. CAP PIPING AT MAINS.
- DISCONNECT AND REMOVE EXISTING PIPING. HANGERS AND ACCESSORIES NOT REQUIRED TO REMAIN.
- CUT AND CAP MED GAS PIPING JUST UPSTREAM OF EXISTING PIPING SPLIT TO SERVE HEADWALLS BEING DEMOLISHED.
- DISCONNECT AND REMOVE EXISTING MED GAS OUTLETS MED GAS PIPING NOT REQUIRED TO REMAIN.
- DISCONNECT AND REMOVE EXISTING MED GAS VALVE BOX AND ALARM PANEL. PRESERVE VALVE BOX FOR REINSTALLATION.
- EXISTING MEDICAL AIR AND OXYGEN PIPING TO OUTLETS IN ROOM. FIELD VERIFY EXACT ROUTING OF UPSTREAM PIPING AND PRESERVE PIPING SERVING THIS ROOM.

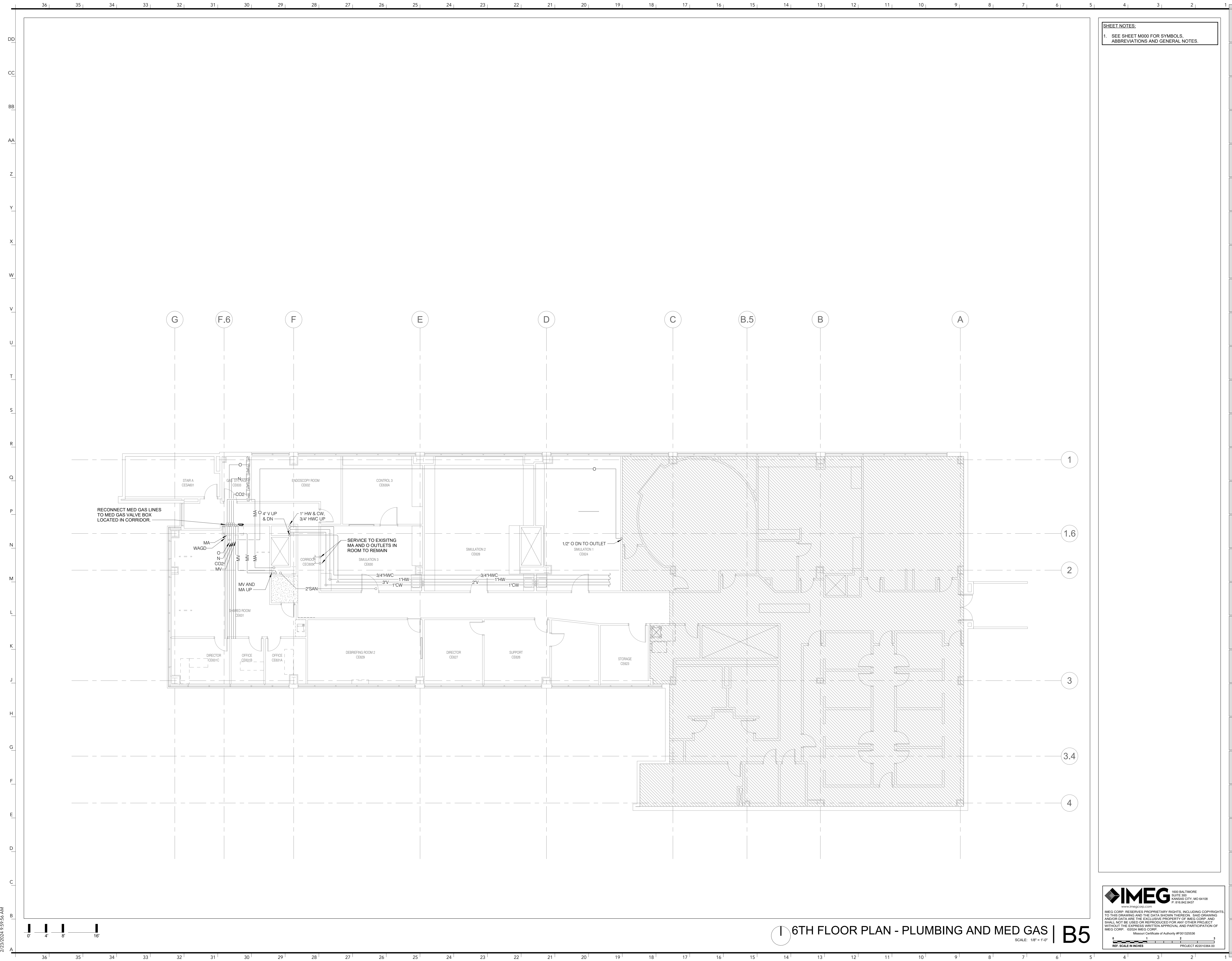


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6TH FLOOR DEMOLITION PLAN - PLUMBING AND MED GAS | B5
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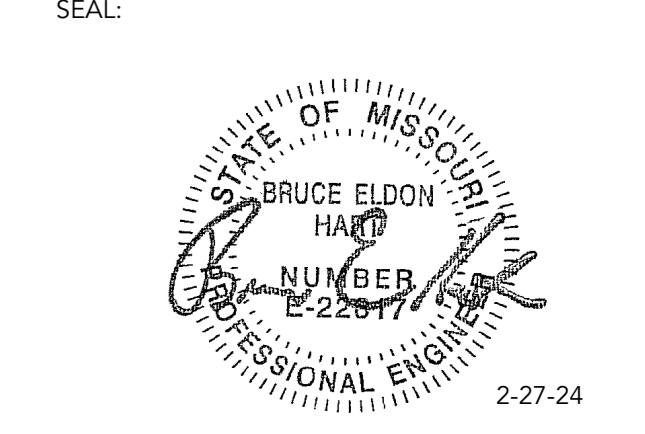
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**6TH FLOOR PLAN -
 PLUMBING & MED GAS**

P206

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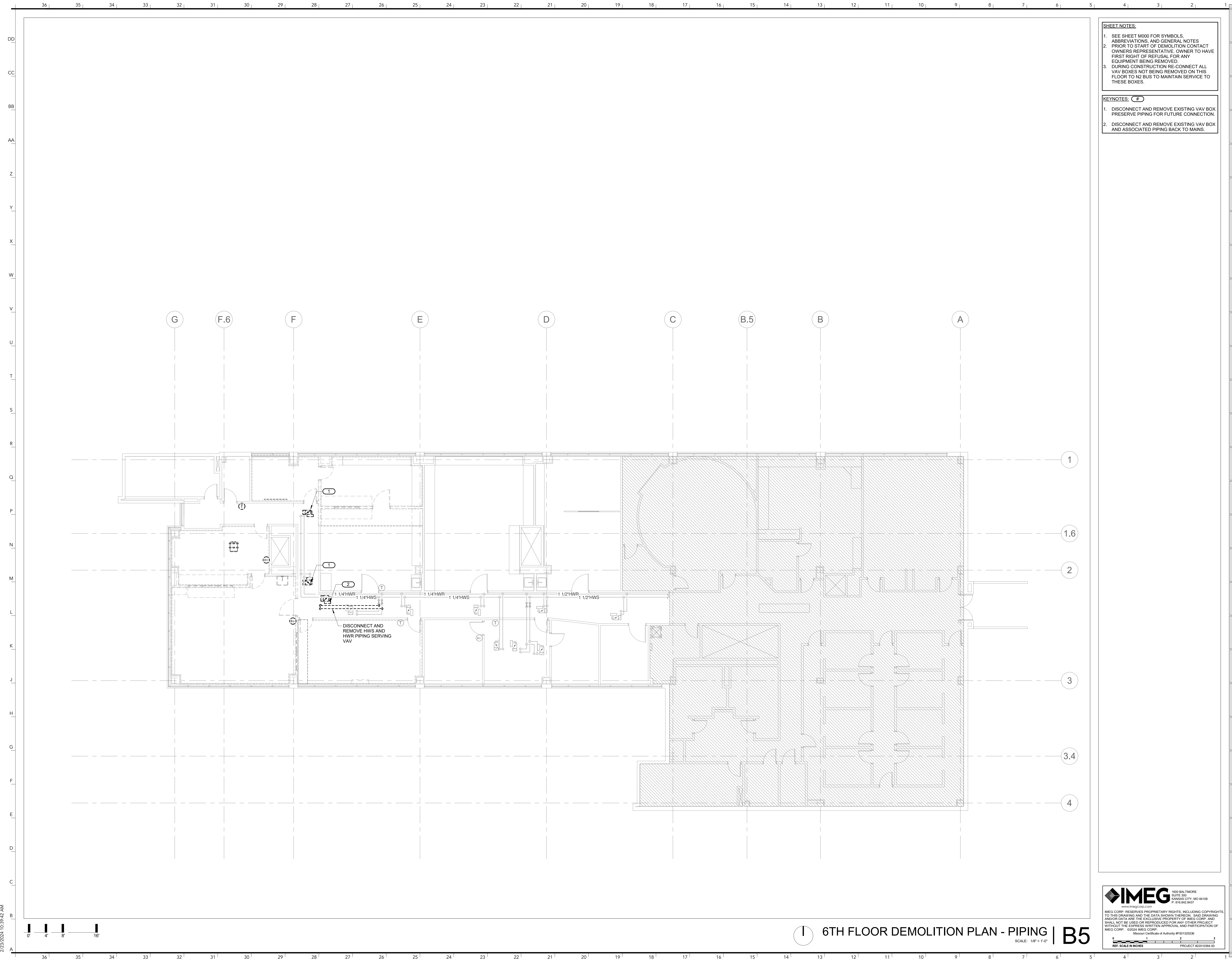
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6TH FLOOR PLAN - PLUMBING AND MED GAS | B5

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SHEET NOTES:

- SEE SHEET M000 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES PRIOR TO START OF DEMOLITION CONTACT OWNERS REPRESENTATIVE. OWNER TO HAVE FIRST RIGHT OF REFUSAL FOR ANY EQUIPMENT BEING REMOVED.
- DURING CONSTRUCTION RE-CONNECT ALL VAV BOXES NOT BEING REMOVED ON THIS FLOOR TO N2 BUS TO MAINTAIN SERVICE TO THESE BOXES.

KEYNOTES:

- DISCONNECT AND REMOVE EXISTING VAV BOX. PRESERVE PIPING FOR FUTURE CONNECTION.
- DISCONNECT AND REMOVE EXISTING VAV BOX AND ASSOCIATED PIPING BACK TO MAINS.

2/23/2024 10:39:42 AM



① 6TH FLOOR DEMOLITION PLAN - PIPING | B5
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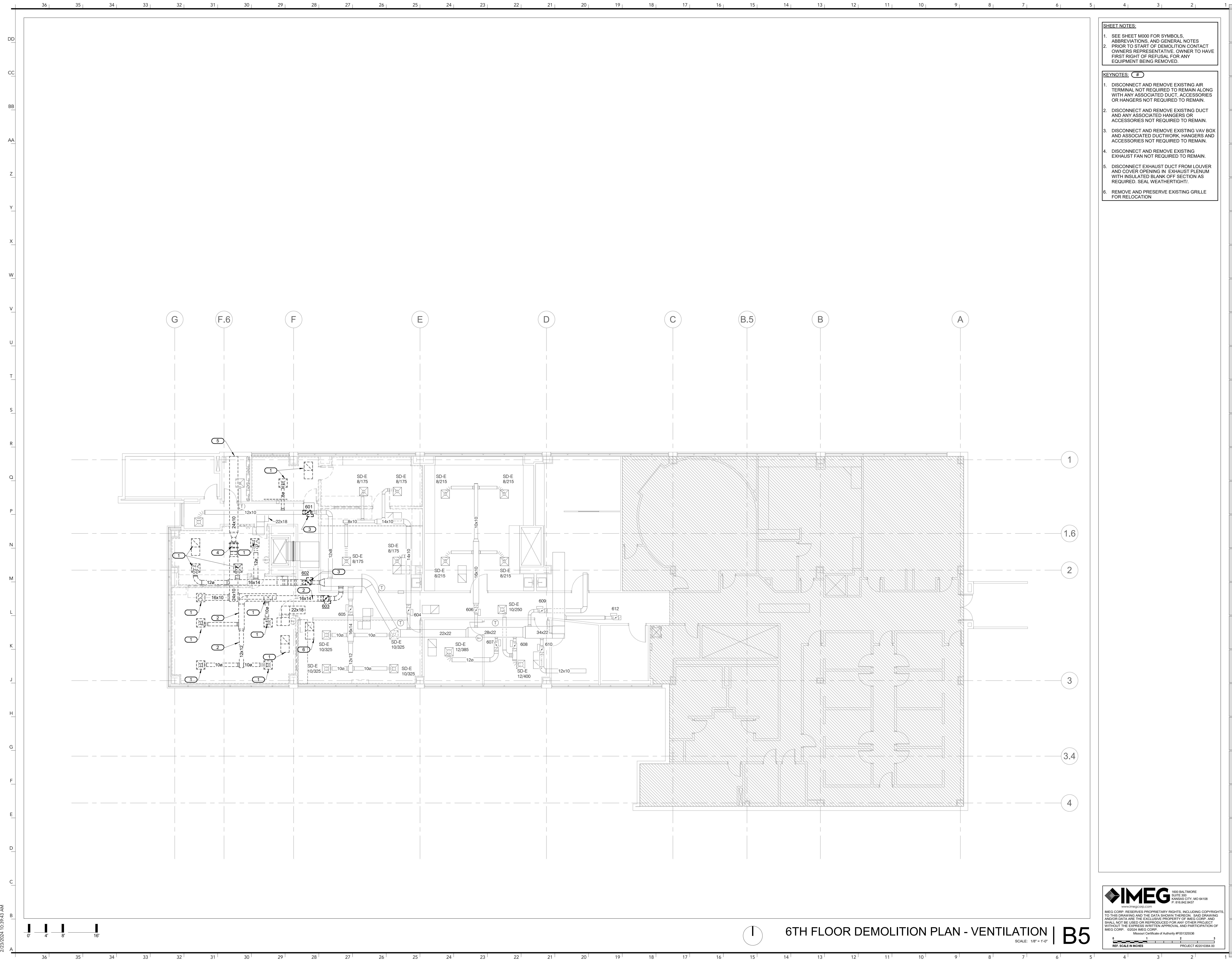
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6TH FLOOR DEMOLITION PLAN - PIPING

M106



SHEET NOTES:

- SEE SHEET M000 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
- PRIOR TO START OF DEMOLITION CONTACT OWNER'S REPRESENTATIVE. OWNER TO HAVE FIRST RIGHT OF REFUSAL FOR ANY EQUIPMENT BEING REMOVED.

KEYNOTES: (1-6)

- DISCONNECT AND REMOVE EXISTING AIR TERMINAL NOT REQUIRED TO REMAIN ALONG WITH ANY ASSOCIATED DUCT, ACCESSORIES OR HANGERS NOT REQUIRED TO REMAIN.
- DISCONNECT AND REMOVE EXISTING DUCT AND ANY ASSOCIATED HANGERS OR ACCESSORIES NOT REQUIRED TO REMAIN.
- DISCONNECT AND REMOVE EXISTING VAV BOX AND ASSOCIATED DUCTWORK, HANGERS AND ACCESSORIES NOT REQUIRED TO REMAIN.
- DISCONNECT AND REMOVE EXISTING EXHAUST FAN NOT REQUIRED TO REMAIN.
- DISCONNECT EXHAUST DUCT FROM LOUVER AND COVER OPENING IN EXHAUST PLENUM WITH INSULATED BLANK OFF SECTION AS REQUIRED. SEAL WEATHERTIGHT.
- REMOVE AND PRESERVE EXISTING GRILLE FOR RELOCATION

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6TH FLOOR DEMOLITION PLAN - VENTILATION | B5

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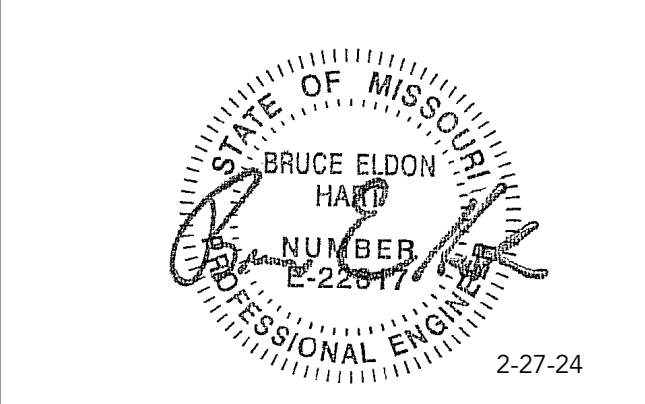
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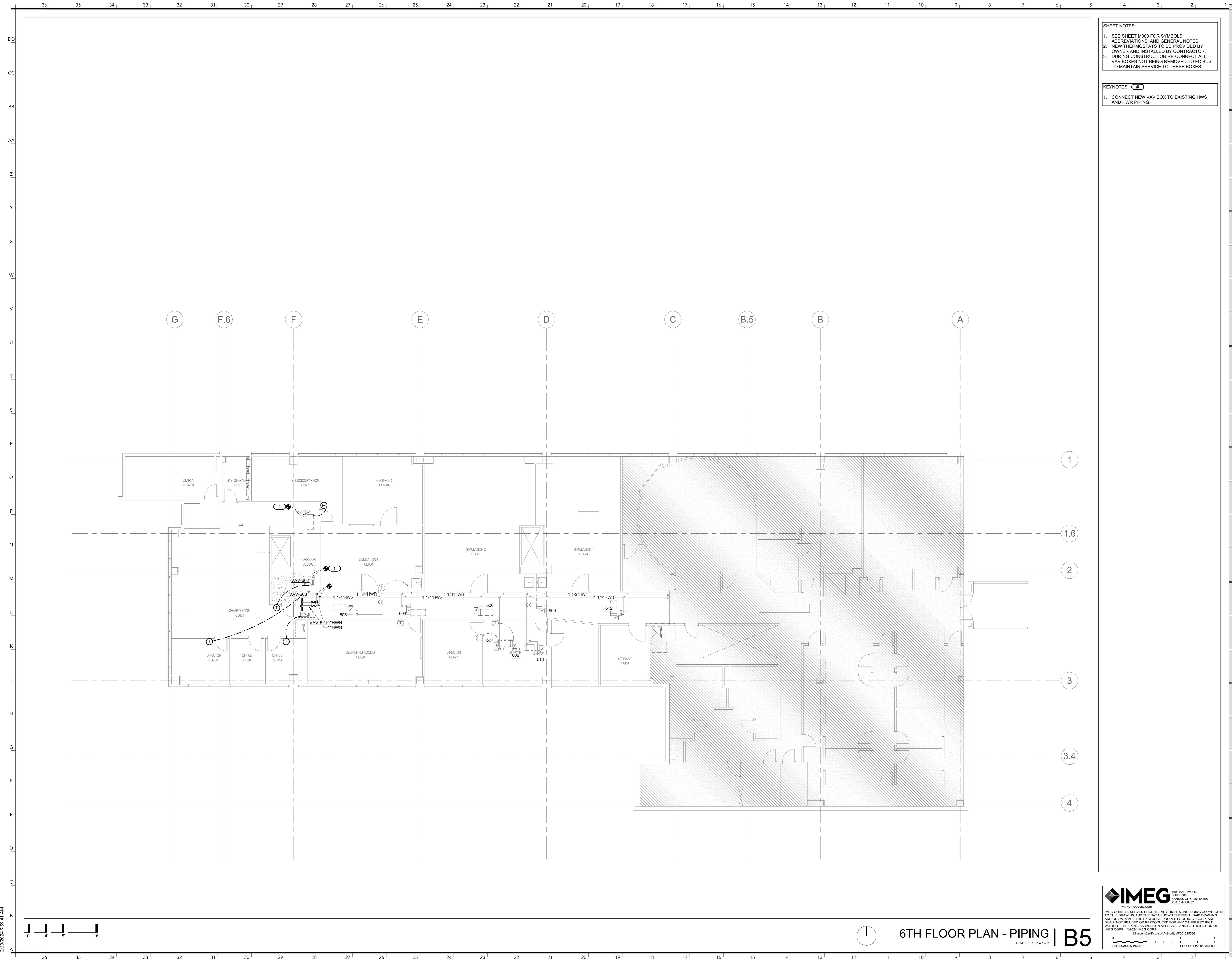
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6TH FLOOR DEMOLITION PLAN - VENTILATION

M116



SHEET NOTES:
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 2. NEW THERMOSTATS TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
 3. DURING CONSTRUCTION RE-CONNECT ALL VAV BOXES NOT BEING REMOVED TO FC BUS TO MAINTAIN SERVICE TO THESE BOXES.

KEYNOTES: (B)
 1. CONNECT NEW VAV BOX TO EXISTING HWS AND HWR PIPING.

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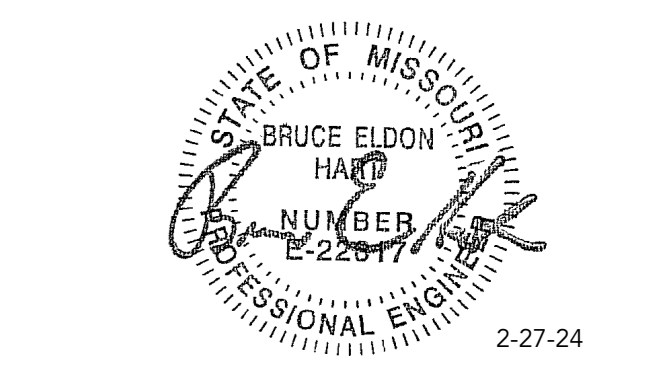
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6TH FLOOR PLAN - PIPING

M206

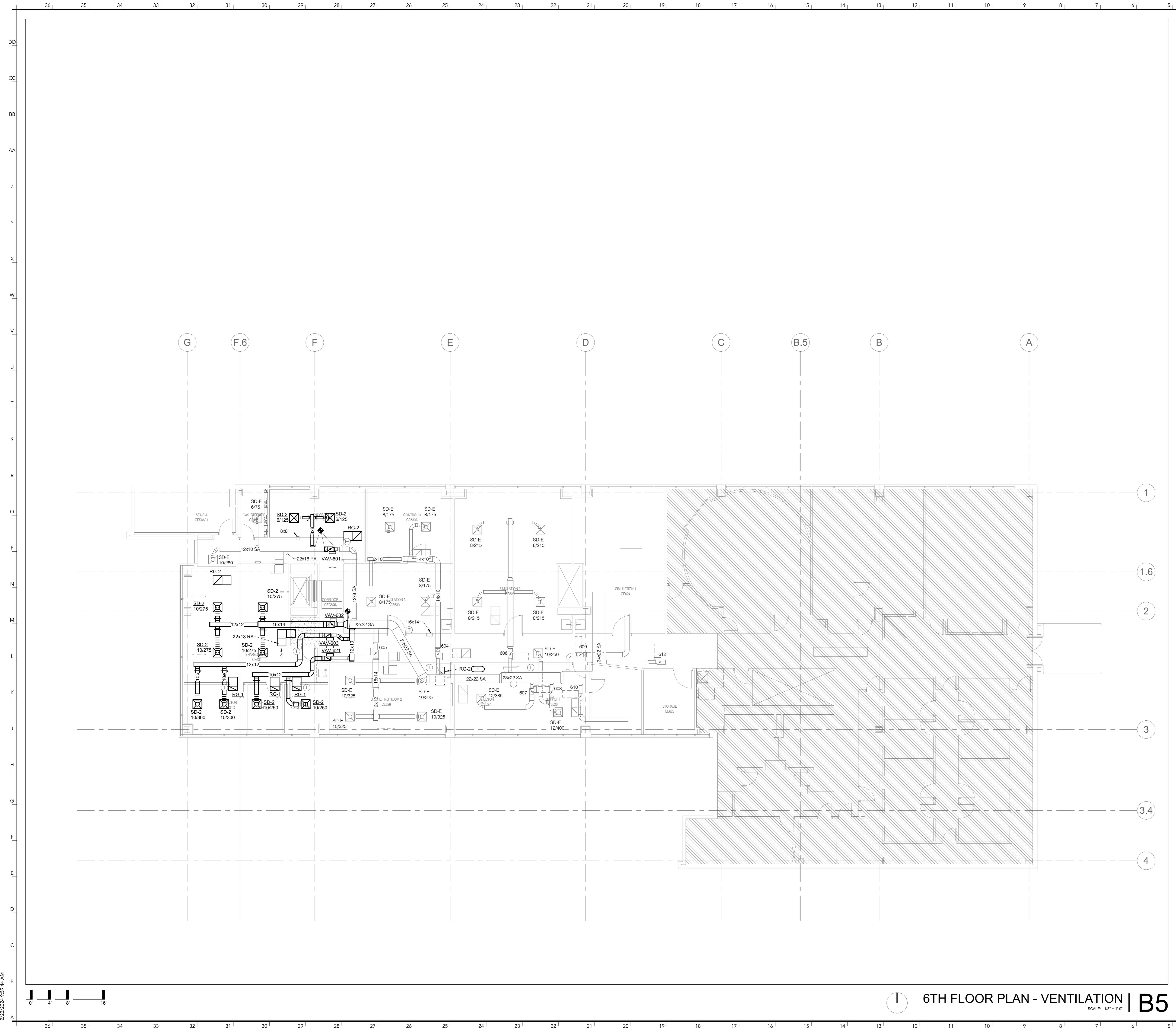
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6TH FLOOR PLAN - PIPING | B5
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- NEW THERMOSTATS TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

KEYNOTES:

- RELOCATE RETURN GRILLE REMOVED FROM THIS ROOM AND PRESERVED DURING DEMOLITION.

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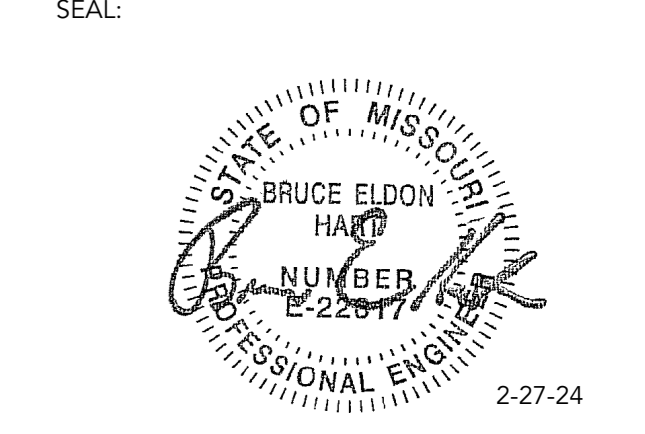
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6TH FLOOR PLAN - VENTILATION | B5
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6TH FLOOR PLAN -
 VENTILATION

M216

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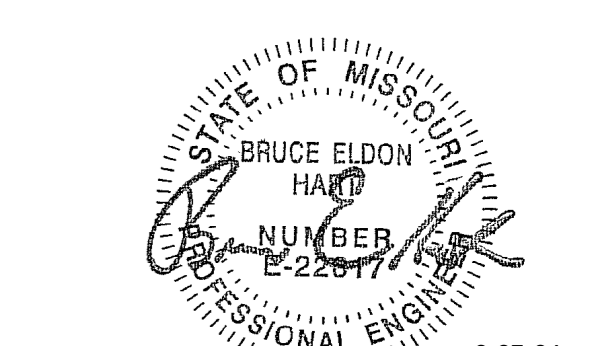
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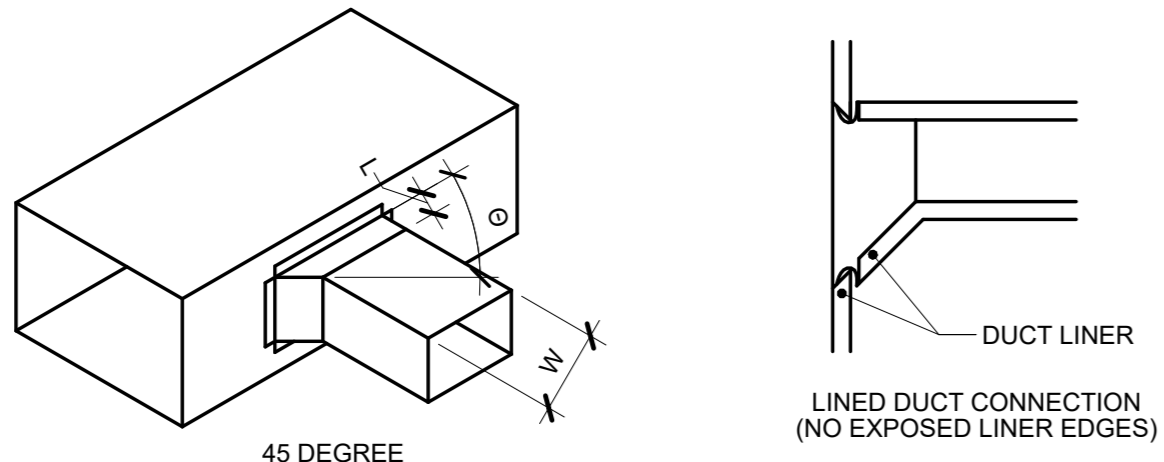
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M400

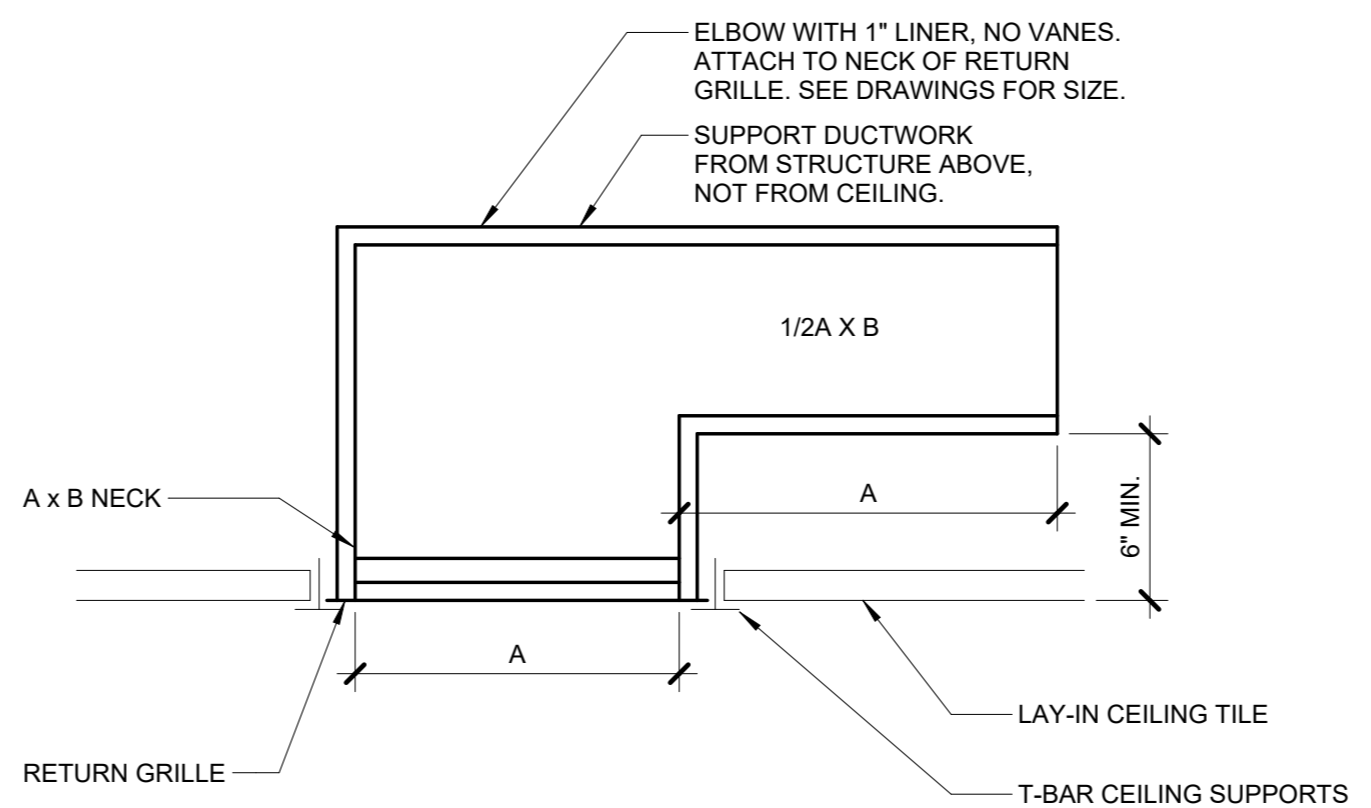
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- NOTES:
- DO NOT USE CONNECTIONS WITH SCOOPS.
 - FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
 - ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"W.G. AND OVER.
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1 BRANCH CONNECTIONS

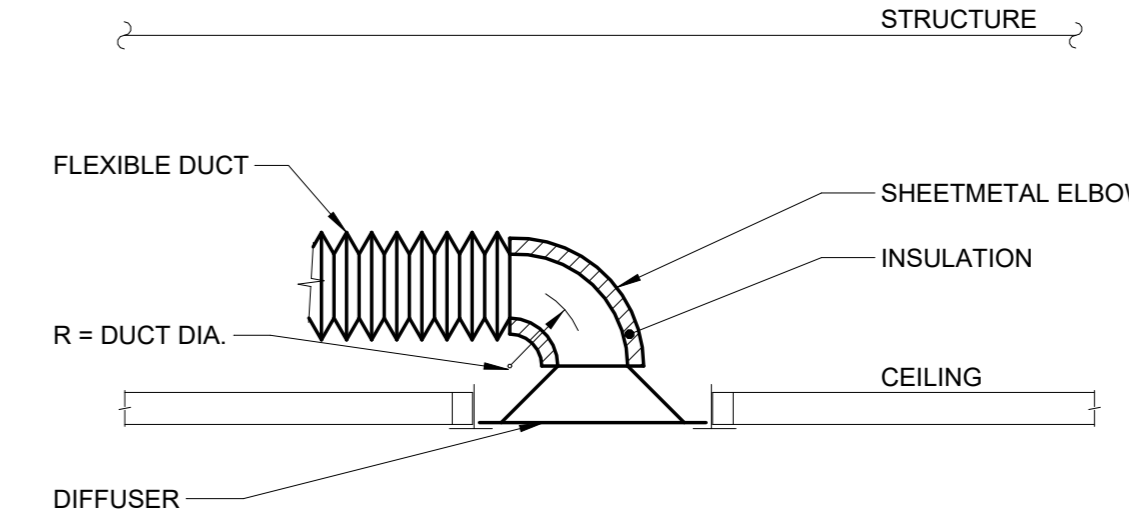
NO SCALE



- NOTES:
- THIS DETAIL APPLIES TO ALL RETURN GRILLES.

2 CEILING RETURN GRILLE W/BOOT

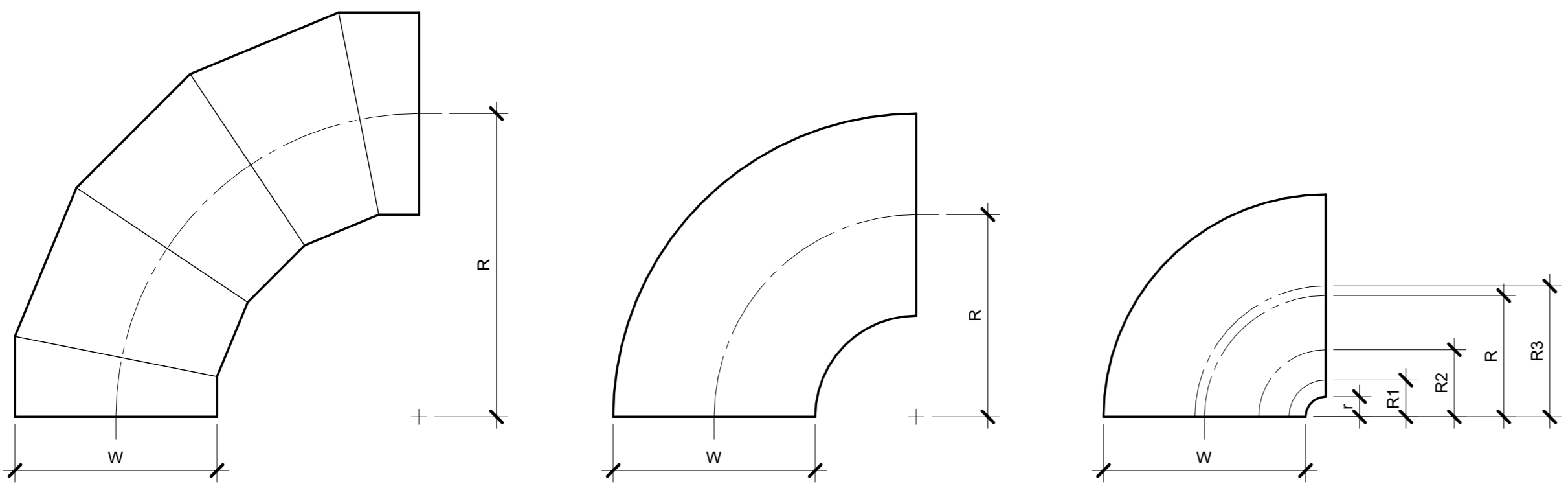
NO SCALE



- NOTES:
- TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS, ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.

3 DIFFUSER CONNECTION DETAIL

NO SCALE

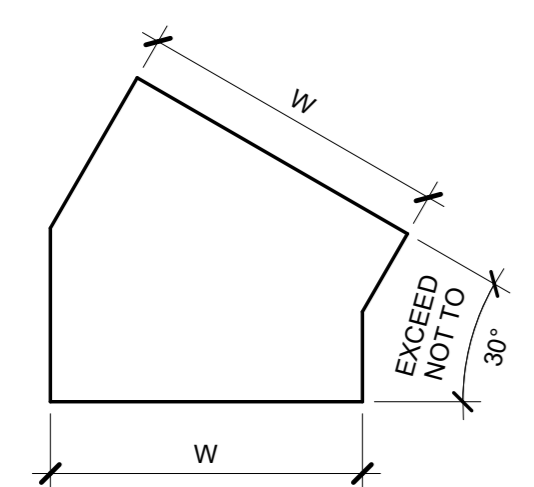


OVAL / ROUND RADIUS ELBOW SMOOTH OR 5 GORE (MINIMUM) R/W = 1.5 (MINIMUM)

RECTANGULAR RADIUS ELBOW TYPE RE1 R/W = 1.0 (MINIMUM) R/W = 1.0 SHALL BE TYPE RE3

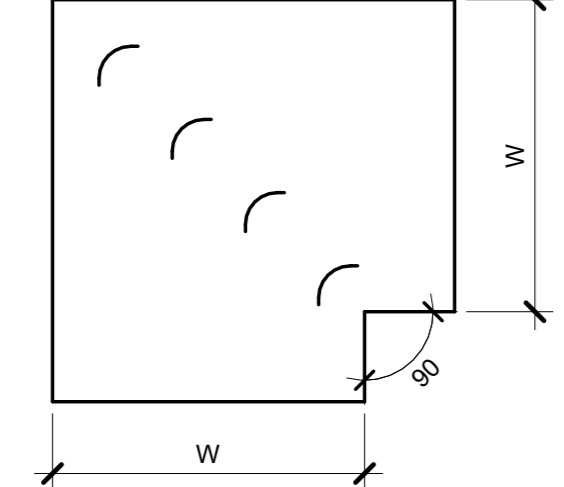
RECTANGULAR RADIUS ELBOW WITH VANES TYPE RE3

REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION. FIGURES 4-2 AND 4-3 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.

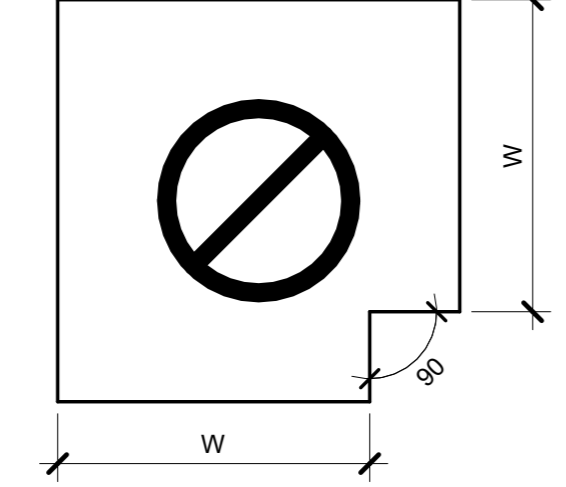


RECTANGULAR MITERED ELBOW TYPE RE6

USE ONLY AS PART OF OFFSETS AND TRANSITIONS PER FIGURE 4-7 TYPE 2 OR AS SHOWN ON DRAWINGS. OFFSETS ABOVE 30° SHALL BE TYPE RE1.

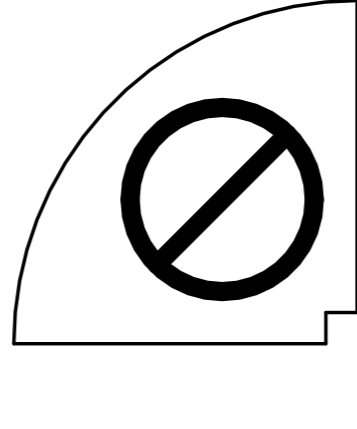


RECTANGULAR MITERED ELBOW WITH VANES TYPE RE2



RECTANGULAR / OVAL / ROUND MITERED ELBOW WITHOUT VANES TYPE RE4

NOT ALLOWED



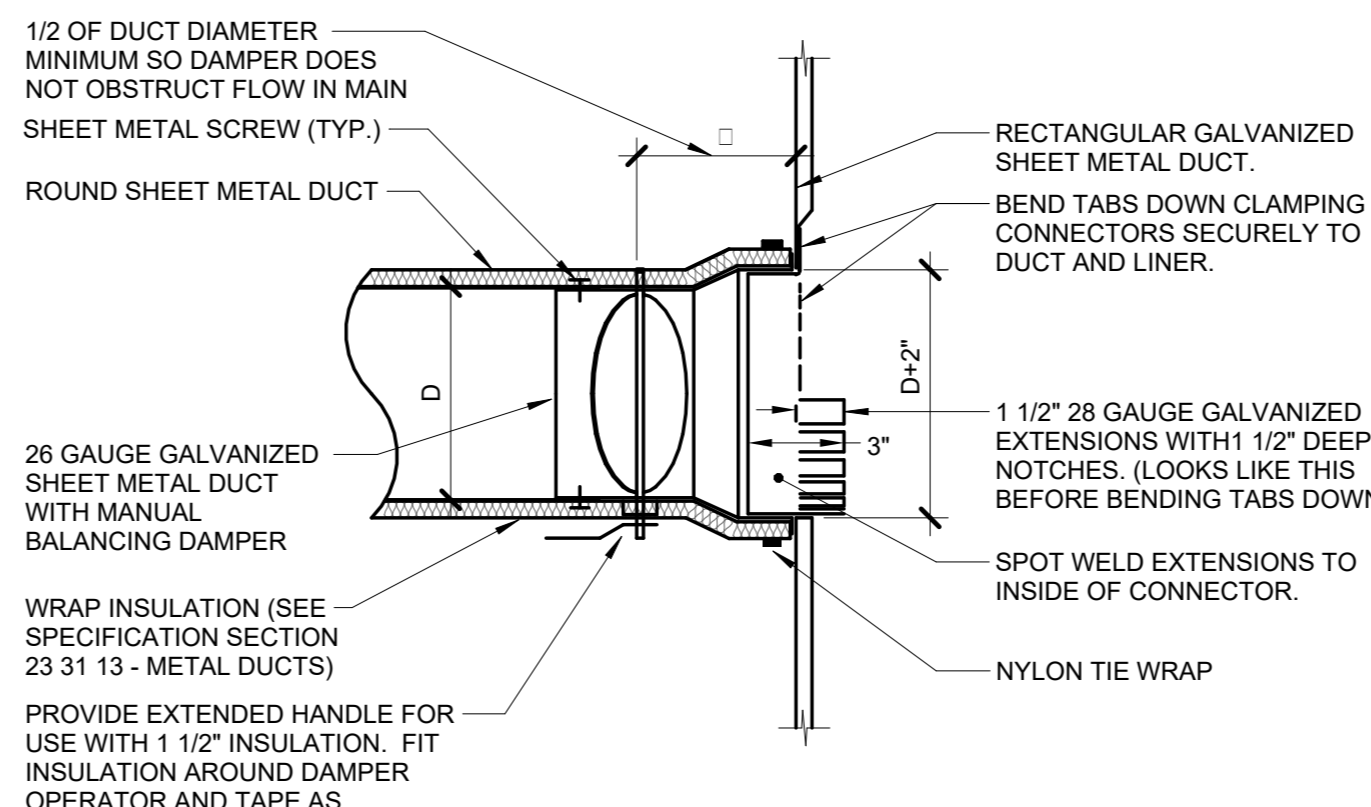
RECTANGULAR RADIUS ELBOW WITH SQUARE THROAT

NOT ALLOWED

- NOTES:
- BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - DEFAULT ELBOW SHALL BE TYPE RE1.
 - ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

4 ELBOW CONSTRUCTION

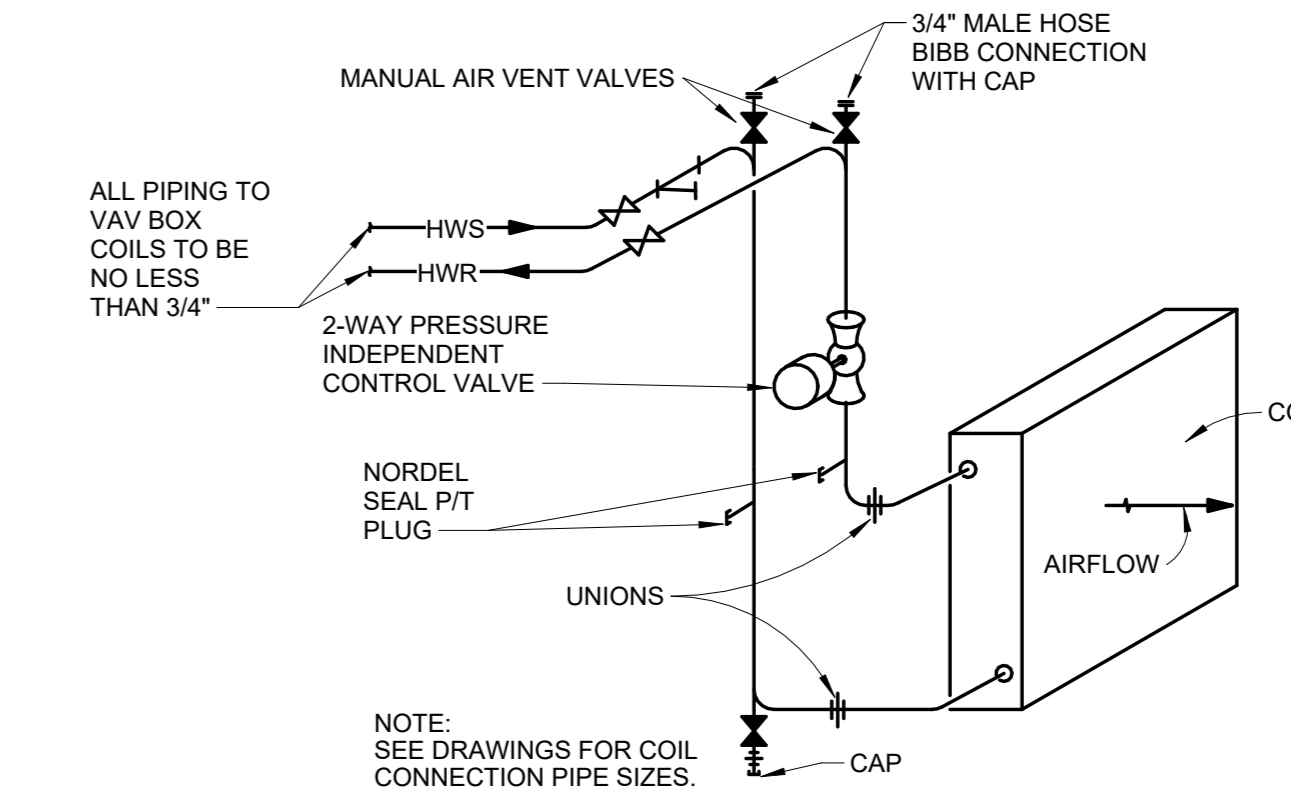
NO SCALE



- NOTES:
- THIS DETAIL APPLIES ONLY TO TAPS OFF LINED DUCTS.

5 ROUND DUCT TAP CONNECTION

NO SCALE



6 SKETCH OF CONN'S TO VAV BOX HOT WATER COILS W/2 WAY VALVES

NO SCALE

IMEG 1500 BALTIMORE
SUITE 300
KANSAS CITY, MO 64108
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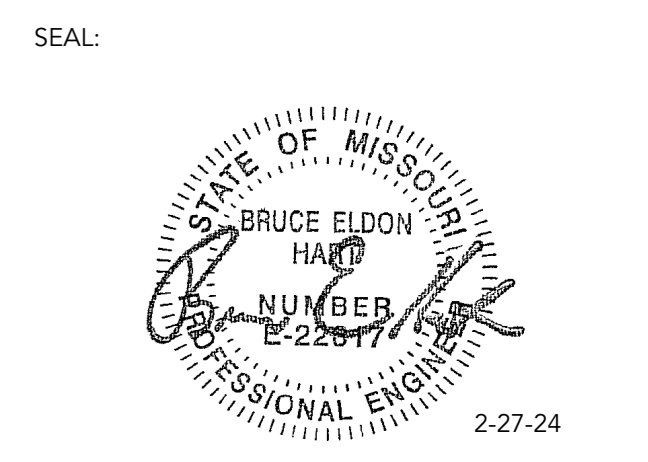
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PROJECT #22010364.00

INF. SCALE IN INCHES

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NO.	REVISION	SUBMISSION	DATE
0	ISSUED FOR BID		02/27/2024

AIR TERMINAL SCHEDULE

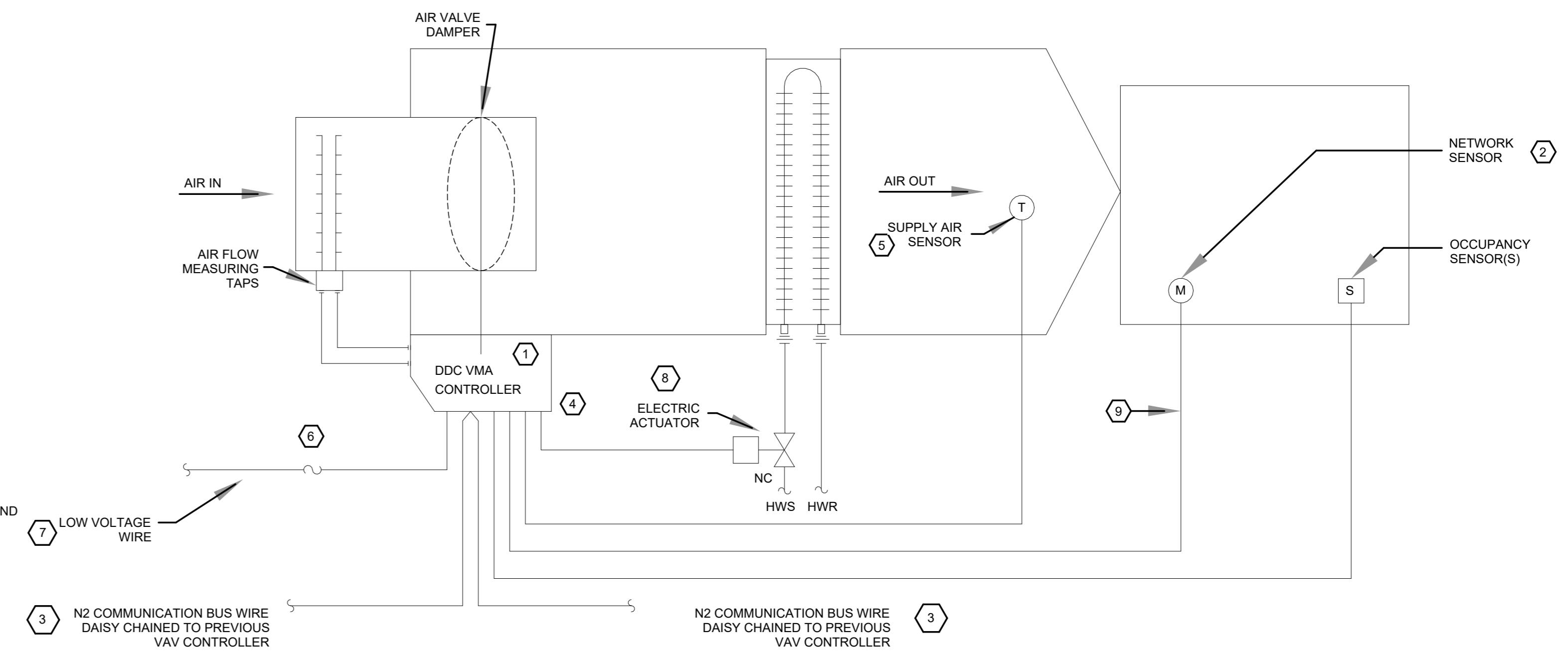
NOTES:
 1. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
 2. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	MANUFACTURER	MODEL	NOTES
SD-2	24x24	PANEL FACE	LAY-IN	STEEL	WHITE	TITUS	OMNI	FLUSH FACE PANEL
RG-1	24x12	EGGCRATE GRILLE	LAY-IN	ALUMINUM	WHITE	TITUS	50F	
RG-2	24x24	EGGCRATE GRILLE	LAY-IN	ALUMINUM	WHITE	TITUS	50F	

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT

NOTES:
 1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
 2. TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
 3. REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
 4. SENSOR TYPES: 1 - SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.
 5. HEATING COIL IS BASED ON HEATING AIR FLOW. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5'. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS. WHEN LAT °F, EWT °F, AND GPM, IF VALUES ARE BLANK, HEATING COIL IS NOT REQUIRED FOR TAB.
 6. HEATING COIL SELECTION SHALL BE BASED ON A FIXED LEAVING AIR TEMPERATURE AND VARIABLE FLOW (GPM). PROVIDE FINAL MAXIMUM FLOW RATE (GPM) TO TEST & BALANCE TEMPERATURE CONTROLS CONTRACTORS.
 7. OCCUPANCY SENSORS TO BE INTEGRATED IN VAV CONTROLS FOR THIS BOX.

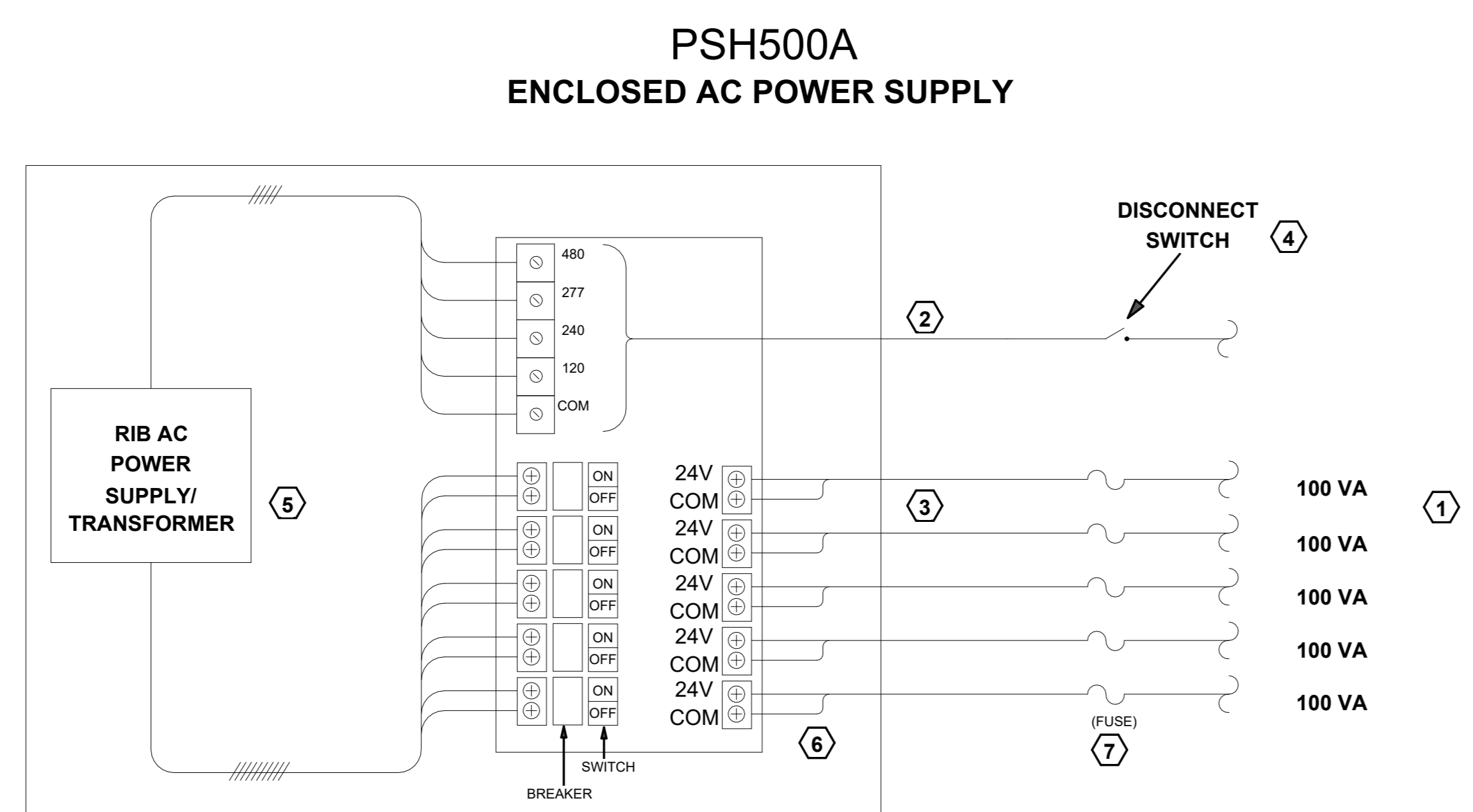
TAG NAME	CFM		OCCUPIED		UNOCCUPIED		HEATING COIL (NOTES 5, 6)			MIN. INLET SIZE (IN.) DIA.	CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
	COOLING MAX.	HEATING MAX.	MIN.	MAX.	EAT °F	LAT °F	°F	MAX. GPM							
VAV-601	605	605	360	185	55.0	95.0	160	1.3	8"	TAB-A	2	TITUS	DESV		NOTES 1, 2, 7
VAV-602	1100	570	330	330	55.0	95.0	160	1.2	12"	TAB-A	2	TITUS	DESV		NOTES 1, 2, 7
VAV-603	380	140	140	115	55.0	95.0	160	0.5	8"	TAB-A	2	TITUS	DESV		NOTES 1, 2, 7
VAV-621	500	230	230	150	55.0	95.0	160	0.5	8"	TAB-A	2	TITUS	DESV		NOTES 1, 2, 7



1 TAB-A VAV BOX CONTROL DIAGRAM WITH REHEAT
 NO SCALE

- NOTES:**
- VMA TERMINAL INCLUDES CONSTANT VOLUME (CV) UNITS & VARIABLE AIR VOLUME (VAV) UNITS. UNLESS OTHERWISE NOTED, ALL CONTROL WORK SHALL BE BY CONTRACTOR.
 - CAPS FOR VAV DP TEST PORTS MUST BE NEOPRENE CAPS OR 1/4" BRASS PLUGS. NO RUBBER CAPS ALLOWED.

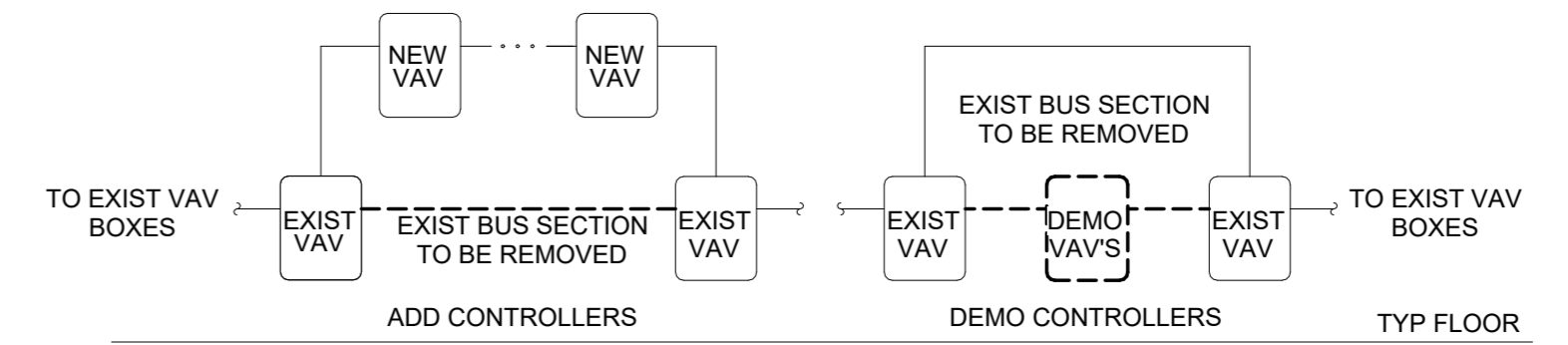
- KEYED NOTES:**
- CONTROLLER WILL BE FURNISHED BY OWNER. CONTROLLER WILL BE JCI MODEL M4-CVM03050. PROGRAMMING WILL BE PROVIDED BY OWNER. OWNER WILL PROVIDE FOUR (4) NEW CONTROLLERS.
 - NETWORK SENSOR WILL BE FURNISHED BY OWNER & INSTALLED BY CONTRACTOR.
 - N2 COMMUNICATION BUS WIRE SHALL BE 18 AWG, PLENUM RATED, TWISTED SHIELDED, WITH BLUE-BLACK-WHITE COLOR CODED 3 CONDUCTOR, WITH BLUE OUTER CASING, DESCRIBED AS 18-03 OAS STR PLNM NEON BLU JK DISTRIBUTED BY WINDY CITY WIRE. CONSTRUCTED BY CABLE-TEK, OR APPROVED EQUIVALENT.
 - CONTROLLER MUST HAVE A MINIMUM OF 18 INCHES OF ACCESSIBLE CLEARANCE.
 - VAV SUPPLY TEMP SENSOR 1000 OHM PLATINUM RTD LOCATED APPROX. 8 FT. FROM VAV BOX DISCHARGE. PROVIDED, INSTALLED, & WIRED TO CONTROLLER BY CONTRACTOR.
 - FUSE LOCATED WITHIN 2 FT. OF VMA CONTROLLER.
 - LOW VOLTAGE WIRE BY DIVISION 23. SEE ELECTRICAL DRAWINGS FOR SOURCE.
 - VALVE WITH PROPORTIONAL 0-10 VOLT ACTUATOR OR EQUIVALENT.
 - SA BUS WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 4 CONDUCTOR.



- NOTES:**
- SECONDARY LINE CAN BE RAN IN SAME CONDUIT AS FC BUS
 - ENCLOSED POWER SUPPLY MUST BE LOCATED IN ELECTRICAL ROOM, MECHANICAL ROOM, OR JANITOR'S CLOSET AND BE ACCESSIBLE. ANY OTHER LOCATION MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE

- KEYED NOTES:**
- EACH SECONDARY OUTPUT LINE CAN POWER 3-5 VAV CONTROLLERS MAXIMUM. (100 VA)
 - PRIMARY LINE INFO: 480/277/240/120 Vac, #12 AWG MINIMUM
 - SECONDARY LINE INFO: 24 Vac, #12-26 AWG, 100 VA. MAX LENGTH 175 FEET USING #14 AWG
 - DISCONNECT SWITCH REQUIRED, EXTERNALLY MOUNTED WITHIN 12 INCHES OF RIB POWER SUPPLY
 - 500VA POWER SUPPLY - INCLUDED IN RIB MODEL# PSH500A OR APPROVED EQUIVALENT
 - ALL SECONDARY LINES MUST BE LABELED IN ENCLOSURE AS TO WHICH VAV'S THEY POWER PRIOR TO ENERGIZING POWER SUPPLY
 - A SEPARATE 3 AMP FUSE IS REQUIRED WITHIN 3 FEET OF EACH VAV

2 VAV BOX POWER SUPPLY DIAGRAM
 NO SCALE



- NOTES:**
- N2 BUS TO BE CONTINUOUS DAISY CHAIN WITHOUT SPLICES. CONNECTIONS CAN ONLY BE MADE AT CONTROLLERS. SEE PLANS FOR QUANTITY AND LOCATIONS OF VAV CONTROLLERS.
 - BREAK BUS BETWEEN TWO EXISTING CONNECTED VAV CONTROLLERS AND REROUTE AS SHOWN FOR ADDING NEW CONTROLLERS. BUS CAN BE REROUTED IN MULTIPLE LOCATIONS TO KEEP OVERALL BUS LENGTH SHORT.
 - ROUTE NEW BUS SECTION AROUND ANY CONTROLLERS TO BE REMOVED.
 - KEEP BUS INTACT THROUGHOUT PROJECT AND COORDINATE N2 BUS ROUTING AND OUTAGES WITH OWNERS REP.
 - N2 COMMUNICATION BUS WIRE SHALL BE 18 AWG, PLENUM RATED, TWISTED SHIELDED, 3 CONDUCTOR, WITH BLUE OUTER CASING, DESCRIBED AS 18-03 OAS STR PLNM NEON BLU JK DISTRIBUTED BY WINDY CITY WIRE. CONSTRUCTED BY CABLE-TEK, OR APPROVED EQUIVALENT.

3 FC BUS DIAGRAM
 NO SCALE

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 SUITE 300
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 PROJECT #22010364.00
 REF. SCALE IN INCHES: 1" = 12'

ELECTRICAL GENERAL NOTES:

- 1. "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
- 2. "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UPON LOSS OF POWER.
- 3. SHADDED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
- 4. REFER TO SHEET E400 FOR LIGHTING CONTROL ONE-LINE DIAGRAM.
- 5. REFER TO SHEET E600 FOR LUMINAIRE SCHEDULE.
- 6. REFER TO SHEET E600 FOR LIGHTING ZONES FOR THE SPACE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE. REFER TO SHEET E600.
- 7. (B)H PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF (FRASE/LOWER AND SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS) AND THE LIGHTING SEQUENCE OF OPERATIONS (LHO). COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTRACTOR. REFER TO SHEET E600.
- 8. (L)M DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. REFER TO SHEET E600.
- 9. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.

LUMINAIRE KEY:
FI = FIXTURE TAG
a = CIRCUIT NUMBER
NL = SWITCH DESIGNATION
N# = SUBSCRIPT (IF APPLICABLE)
Z = ZONE DESIGNATION

"IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F11/a/NL"

DEVICE KEY:
MOUNTING (IF APPLICABLE)
a = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

"IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A/1"

ELECTRICAL MOUNTING SUBSCRIPT KEY:
A C MOUNT AT CEILING
H MOUNT ORIENTED HORIZONTALLY
L MOUNT IN CASEWORK
M MOUNT IN MODULAR FURNITURE
R MOUNT IN SURFACE RACEWAY
EWC ELECTRIC WATER COOLER

ELECTRICAL INSTALLATION NOTES:

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- 3. EMERGENCY BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- 4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED. SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- 5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSION) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
- 6. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATIONS. REFER TO 27.05.03 AND 28.05.03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- 7. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
- 8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
- 9. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 80" ABOVE FINISHED FLOOR OR FT BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
- 10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- 11. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- 12. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUDED OR SEALED INTO OPENINGS.
- 14. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- 15. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS WHOSE WORK CAUSES DAMAGE. GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- 17. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26.05.53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.
- 18. ELECTRICAL CONTRACTOR SHALL ROUGH-IN OWNER SUPPLIED CAT6A AND RG-6 CABLES.

ELECTRICAL SHEET INDEX

E106	6TH FLOOR DEMOLITION PLAN - LIGHTING
E116	6TH FLOOR DEMOLITION PLAN - POWER
E126	6TH FLOOR DEMOLITION PLAN - SYSTEMS
E206	6TH FLOOR PLAN - LIGHTING
E216	6TH FLOOR PLAN - POWER
E226	6TH FLOOR PLAN - SYSTEMS
E400	ELECTRICAL DETAILS
E600	ELECTRICAL SCHEDULES
GRAND TOTAL:	8

IMEG CORP. 1500 BALTIMORE
SUITE 200
KANSAS CITY, MO 64108
P: 816.842.8357
www.imegcorp.com

MEP CONSULTANT
IMEG CORP.
1600 BALTIMORE
KANSAS CITY, MO 64108
PH: 816.842.837

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0 ISSUED FOR BID 02/27/2024

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MOR: E-22817

ELECTRICAL COVERSHEET

E000

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ELECTRICAL RENOVATION NOTES:

- 1. THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.
- 2. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- 3. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
- 4. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BEFORE OF EXISTING FIELD CONDITIONS.
- 5. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR AND ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
- 6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- 7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- 8. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

- 1. THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK, MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- 3. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- 4. PROVIDE TEMPORARY LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
- 5. INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT.
- 6. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	ECONN	26 05 33	ELECTRICAL CONNECTION
	JB	26 05 33	JUNCTION BOX
	FB-# or PT-#	26 27 26	FLOOR BOX OR POKE THROUGH
	RL-TECH	26 05 33	TECHNOLOGY OUTLET ROUGH-IN. 3 CAT6A CABLES, UNLESS NOTED OTHERWISE.
	RL-TECH-C	26 05 33	TECHNOLOGY ROUGH-IN, CEILING
	RL-TECH-W	26 05 33	TECHNOLOGY ROUGH-IN, WALL PHONE
	RL-TV	26 05 33	TV ANTENNA OUTLET ROUGH-IN. 1 CAT6A AND 1 RG-6 CABLE, UNLESS NOTED OTHERWISE.
	RL-TECH-CR	26 05 33	WIRELESS ACCESS POINT, CEILING
	RL-TECH-CR	26 05 33	CARD ACCESS READER (WALL), ROUGH-IN
	RL-TECH-C	26 05 33	TECHNOLOGY ROUGH-IN FOR 180 DEGREE SECURITY CAMERA, CEILING
	PB	26 09 16	MOMENTARY PUSHBUTTON OPERATOR
	PANEL-###	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL-###	26 24 16	PANELBOARD - SURFACE MOUNT
	IPP-#	26 24 21	ISOLATED POWER PANEL
	TR-#DTR-#	26 22 00	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	DS-#	26 28 16	DISCONNECT SWITCH.

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
	REC-DUP-GF-R	26 27 26	GROUND FAULT DEVICE
	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	REC-USB	26 27 26	DUPLEX RECEPTACLE, USB CHARGING
	REC-SIM-520R	26 27 26	SIMPLEX RECEPTACLE, 125V
	REC-SIM-530R	26 27 26	RECEPTACLE, 125V
	REC-SIM-620R	26 27 26	RECEPTACLE, 6-20R, 250V
	REC-SIM-630R	26 27 26	RECEPTACLE, 6-30R, 250V
	REC-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-GFI	26 27 26	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-QUAD	26 27 26	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	REC-QUAD-GFI	26 27 26	QUAD GFI RECEPTACLE, 125V
	REC-QUAD-USB	26 27 26	QUAD RECEPTACLE, USB 125V
	REC-QUAD-WP	26 27 26	QUAD GFI WEATHERPROOF RECEPTACLE, 125V
	PP-#	26 27 23	POWER POLE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	SW-1P	26 09 33	SWITCH - SINGLE POLE
	SW-3W	26 09 33	SWITCH - THREE WAY
	SW-4W	26 09 33	SWITCH - FOUR WAY
	SW-D4LVM	26 09 33	DIMMER - LOW VOLTAGE, 0-10V
	SW-D3LED	26 09 33	DIMMER - LED - 3-WAY
	SW-OD	26 09 33	DIMMER - WALL DIMMER
	SW-L3-PC	26 09 33	PHOTOCCELL
	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
	SW-OC-DW	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED
	SW-OC-P-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
	SW-OC-P-O2	26 09 33	SWITCH - OCCUPANCY SENSOR AND DUAL SWITCH
	SW-OC-P-P	26 09 33	OCCUPANCY SENSOR - PASSIVE INFRARED 360 DEGREE COVERAGE
	SW-OC-P-P2	26 09 33	OCCUPANCY SENSOR - PASSIVE INFRARED 180 DEGREE COVERAGE
	SW-OC-R	26 09 33	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT ROOM CONTROLLER. #- REFERS TO NUMBER OF RELAYS AND D REFERS TO 0-10V DIMMING CONTROLLER
	SW	26 09 33	WALL CONTROL STATION
	TC-#	26 09 33	TIME CLOCK
	SW-DCS	26 09 33	DIMMER CONTROL STATION
	SW-LV	26 09 33	CENTRAL CONTROL - STATION
	LCS-#	26 09 33	LIGHTING CONTROL STATION
	ALCR20	26 09 33	AUTOMATIC LOAD CONTROL RELAY

ELECTRICAL SYMBOL LIST

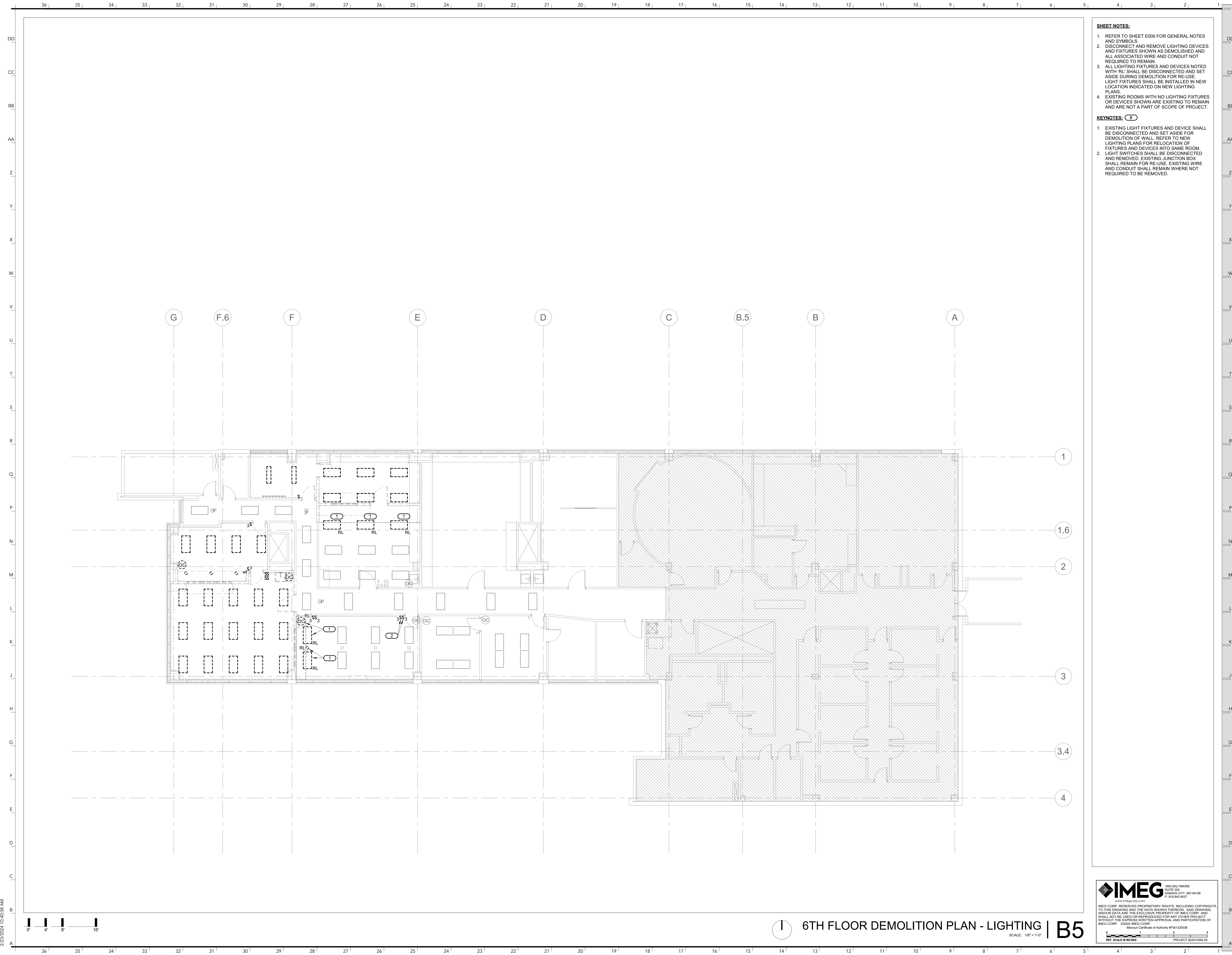
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
			LINEAR LUMINAIRES
			TROFFER
			WALL SCONCE LUMINAIRE
			DOWNLIGHT LUMINAIRE
			INDUSTRIAL LUMINAIRE
			WALL BRACKET LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			WALL/CEILING EMERGENCY EXIT SIGN
			EMERGENCY UNIT

LUMINAIRE SYMBOL KEY

SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE
	EMERGENCY LUMINAIRE UNSWITCHED FOR NIGHT LIGHT, UNLESS NOTED SE

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION:
ATS-#	AUTOMATIC TRANSFER SWITCH. REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
BAT-#	BATTERY RACK	26 32 13
C-#	GENERAL PURPOSE CONTACTOR	26 28 21
CR-#	CORD REEL	26 27 26
CT-#	CABLE TRAY	26 05 36
CUP-#	CUSTOM UTILITY PEDESTAL	26 27 16
DM-#	DC DIMMING PANEL	26 09 33
DP-#	DISTRIBUTION PANEL	26 24 16
DR-#	DIMMING RACK	26 09 33
DT-#	GENERATOR DAY TANK	26 32 13
DTR-#	TRANSFORMER - DISTRIBUTION TYPE. REFER TO TRANSFORMER SCHEDULE	26 12 19 26 12 19 26 12 16 26 12 21
EVCS-#	ELECTRICAL VEHICLE CHARGING STATION	26 27 29
GCC-#	TEMP. GENERATOR/LOAD BANK CONNECTION CABINET	26 32 13
GCP-#	GENERATOR CONTROL PANEL	26 32 13
GEN-#	GENERATOR	26 32 13
GFS-#	GENERATOR PARALLELING AND DISTRIBUTION SWITCHBOARD	26 24 14 26 13 35
GANN-#	GENERATOR REMOTE RADIATOR	26 32 13
H-#	HANDHOLE	26 05 33
HT-#	HEAT TAPE	26 05 17
IN-#	LIGHTING INVERTER	26 52 00
M-#	METER DISTRIBUTION CENTER	26 20 00
MC-#	EXTERIOR MOUNTED METERING CABINET	26 20 00
MCC-#	MOTOR CONTROL CENTER. REFER TO MOTOR CONTROL SCHEDULE	26 14 19
MH-#	MANHOLE	26 05 37
MPC-#	PACKAGED POWER CENTER	26 24 23
MTS-#	MANUAL TRANSFER SWITCH. REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
MVSG-#	MEDIUM VOLTAGE SWITCHGEAR	26 13 13 26 13 34
MX-#	MANUAL SWITCH. REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
PDU-#	POWER DISTRIBUTION UNIT	26 26 00
PS-#	PAD-MOUNT MEDIUM VOLTAGE SWITCH	26 13 15
R-#	RELAY	26 09 39
RA-ATS-#	REMOTE ANNUNCIATOR FOR ATS	26 36 00
REFS-#	REMOTE FUEL FILL STATION	26 32 13
SB-#	SWITCHBOARD	26 24 13
SC-#	SECTIONALIZING CABINET	26 13 14
SG-#	SWITCHGEAR	26 23 00
SMP-#	SNOW MELT CONTROL PANEL	26 05 17
SMS-#	PAVEMENT MOUNTED DEICING CONTROLLER	26 05 17
SPD-#	SURGE PROTECTION DEVICE	26 43 00
UD-#	UNDERFLOOR DUCT - TRENCH DUCT - CELLULAR FLOOR DUCT	26 05 38
UPS-#	UNINTERRUPTIBLE POWER SUPPLY	26 33 53
US-#	UNIT SUBSTATION	



SHEET NOTES:

1. REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
2. DISCONNECT AND REMOVE LIGHTING DEVICES AND FIXTURES SHOWN AS DEMOLISHED AND ALL ASSOCIATED WIRE AND CONDUIT NOT REQUIRED TO REMAIN.
3. ALL LIGHTING FIXTURES AND DEVICES NOTED WITH 'RL' SHALL BE DISCONNECTED AND SET ASIDE DURING DEMOLITION FOR RE-USE. LIGHT FIXTURES SHALL BE INSTALLED IN NEW LOCATION INDICATED ON NEW LIGHTING PLANS.
4. EXISTING ROOMS WITH NO LIGHTING FIXTURES OR DEVICES SHOWN ARE EXISTING TO REMAIN AND ARE NOT A PART OF SCOPE OF PROJECT.

KEYNOTES: (E)

1. EXISTING LIGHT FIXTURES AND DEVICE SHALL BE DISCONNECTED AND SET ASIDE FOR DEMOLITION OF WALL. REFER TO NEW LIGHTING PLANS FOR RELOCATION OF FIXTURES AND DEVICES INTO SAME ROOM.
2. LIGHT SWITCHES SHALL BE DISCONNECTED AND REMOVED. EXISTING JUNCTION BOX SHALL REMAIN FOR RE-USE. EXISTING WIRE AND CONDUIT SHALL REMAIN WHERE NOT REQUIRED TO BE REMOVED.

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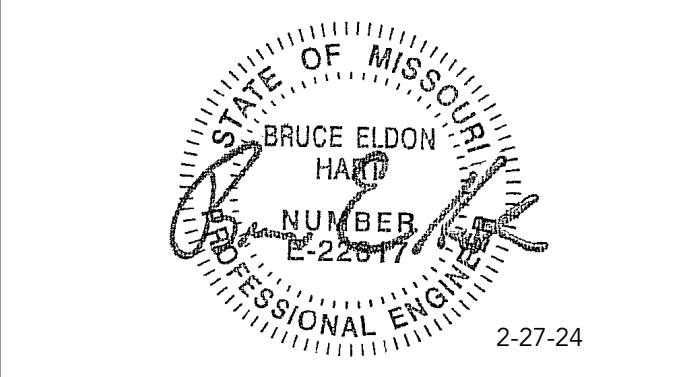
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PROJ. NO.:	CP242241
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DRAWN BY:	ZMB
CHECKED BY:	PLR
APPROVED BY:	PLR



Bruce E. Hart - Engineer
 MO# E-22817

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**6TH FLOOR DEMOLITION
 PLAN - LIGHTING**

E106

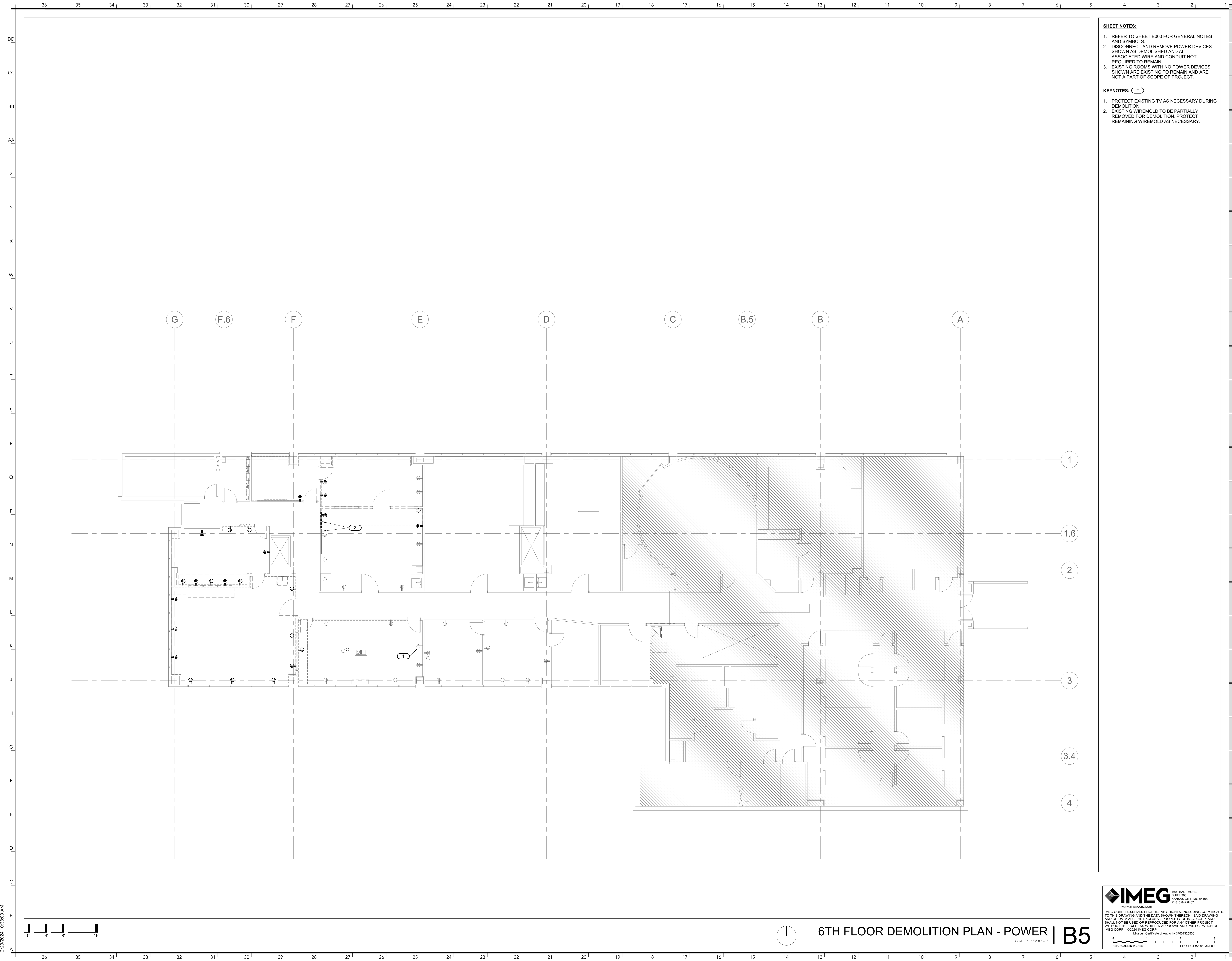
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REF. SCALE IN INCHES

6TH FLOOR DEMOLITION PLAN - LIGHTING | B5
 SCALE: 1/8" = 1'-0"

2/23/2024 10:40:38 AM



SHEET NOTES:

- REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
- DISCONNECT AND REMOVE POWER DEVICES SHOWN AS DEMOLISHED AND ALL ASSOCIATED WIRE AND CONDUIT NOT REQUIRED TO REMAIN.
- EXISTING ROOMS WITH NO POWER DEVICES SHOWN ARE EXISTING TO REMAIN AND ARE NOT A PART OF SCOPE OF PROJECT.

KEYNOTES: (1), (2)

- PROTECT EXISTING TV AS NECESSARY DURING DEMOLITION.
- EXISTING WIREMOLD TO BE PARTIALLY REMOVED FOR DEMOLITION. PROTECT REMAINING WIREMOLD AS NECESSARY.

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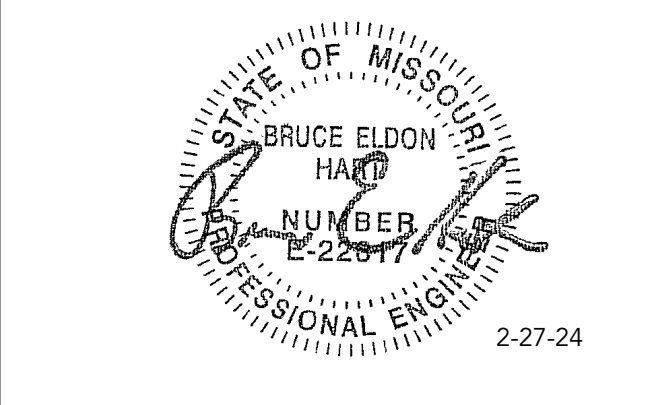
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**6TH FLOOR DEMOLITION
 PLAN - POWER**

E116

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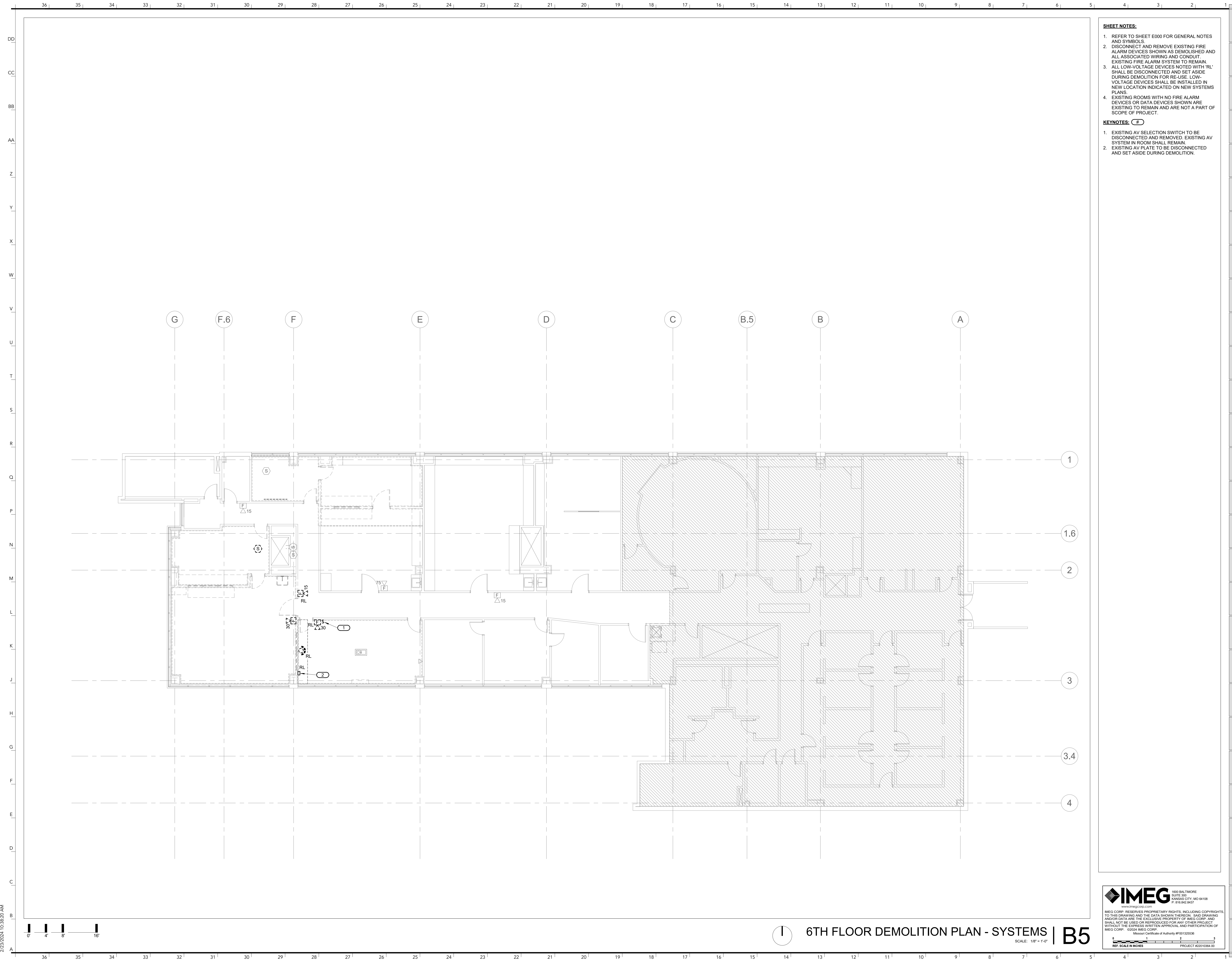
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6TH FLOOR DEMOLITION PLAN - POWER | B5

SCALE: 1/8" = 1'-0"

36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



- SHEET NOTES:**
- REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
 - DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES SHOWN AS DEMOLISHED AND ALL ASSOCIATED WIRING AND CONDUIT. EXISTING FIRE ALARM SYSTEM TO REMAIN.
 - ALL LOW-VOLTAGE DEVICES NOTED WITH 'RL' SHALL BE DISCONNECTED AND SET ASIDE DURING DEMOLITION FOR RE-USE. LOW-VOLTAGE DEVICES SHALL BE INSTALLED IN NEW LOCATION INDICATED ON NEW SYSTEMS PLANS.
 - EXISTING ROOMS WITH NO FIRE ALARM DEVICES OR DATA DEVICES SHOWN ARE EXISTING TO REMAIN AND ARE NOT A PART OF SCOPE OF PROJECT.

- KEYNOTES:**
- EXISTING AV SELECTION SWITCH TO BE DISCONNECTED AND REMOVED. EXISTING AV SYSTEM IN ROOM SHALL REMAIN.
 - EXISTING AV PLATE TO BE DISCONNECTED AND SET ASIDE DURING DEMOLITION.

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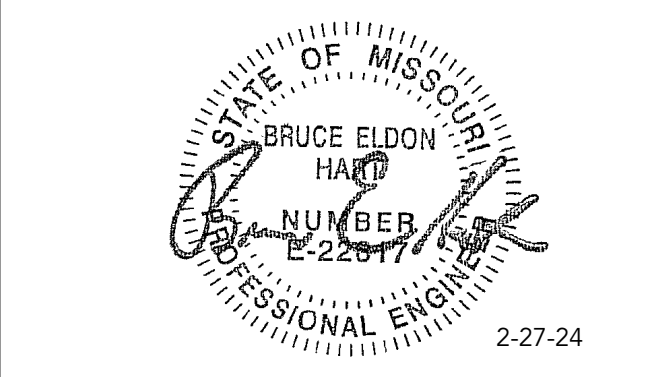
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Bruce E. Hart - Engineer
 MO# E-22817

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**6TH FLOOR DEMOLITION
 PLAN - SYSTEMS**

E126

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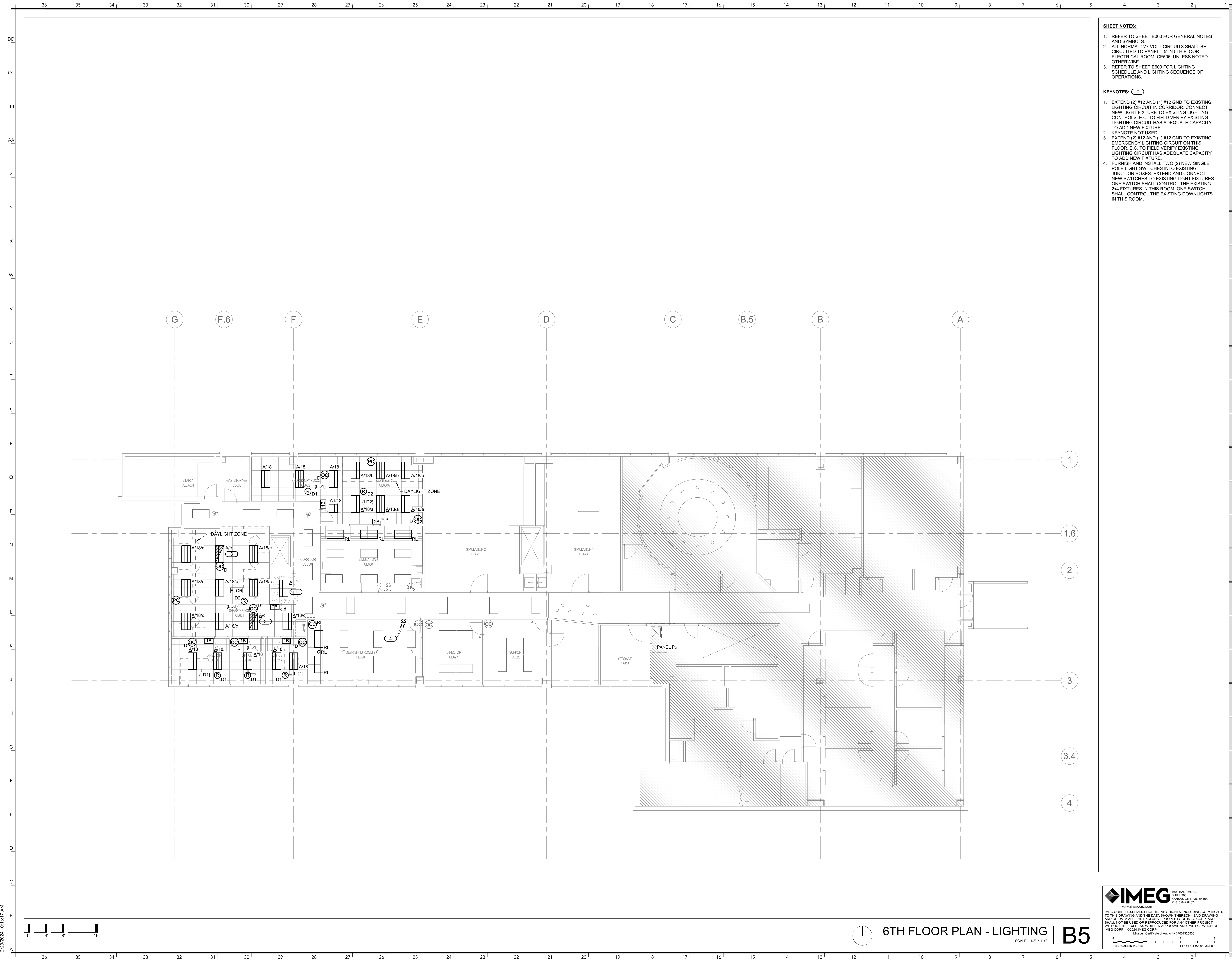
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SCALE: 1/8" = 1'-0"

6TH FLOOR DEMOLITION PLAN - SYSTEMS | B5

2/23/2024 10:38:20 AM



- SHEET NOTES:**
- REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
 - ALL NORMAL 277 VOLT CIRCUITS SHALL BE CIRCUITED TO PANEL L5 IN 5TH FLOOR ELECTRICAL ROOM CE508, UNLESS NOTED OTHERWISE.
 - REFER TO SHEET E600 FOR LIGHTING SCHEDULE AND LIGHTING SEQUENCE OF OPERATIONS.

- KEYNOTES:** **(E)**
- EXTEND (2) #12 AND (1) #12 GND TO EXISTING LIGHTING CIRCUIT IN CORRIDOR. CONNECT NEW LIGHT FIXTURE TO EXISTING LIGHTING CONTROLS. E.C. TO FIELD VERIFY EXISTING LIGHTING CIRCUIT HAS ADEQUATE CAPACITY TO ADD NEW FIXTURE.
 - KEYNOTE NOT USED.
 - EXTEND (2) #12 AND (1) #12 GND TO EXISTING EMERGENCY LIGHTING CIRCUIT ON THIS FLOOR. E.C. TO FIELD VERIFY EXISTING LIGHTING CIRCUIT HAS ADEQUATE CAPACITY TO ADD NEW FIXTURE.
 - FURNISH AND INSTALL TWO (2) NEW SINGLE POLE LIGHT SWITCHES INTO EXISTING JUNCTION BOXES. EXTEND AND CONNECT NEW SWITCHES TO EXISTING LIGHT FIXTURES. ONE SWITCH SHALL CONTROL THE EXISTING 2x4 FIXTURES IN THIS ROOM. ONE SWITCH SHALL CONTROL THE EXISTING DOWNLIGHTS IN THIS ROOM.

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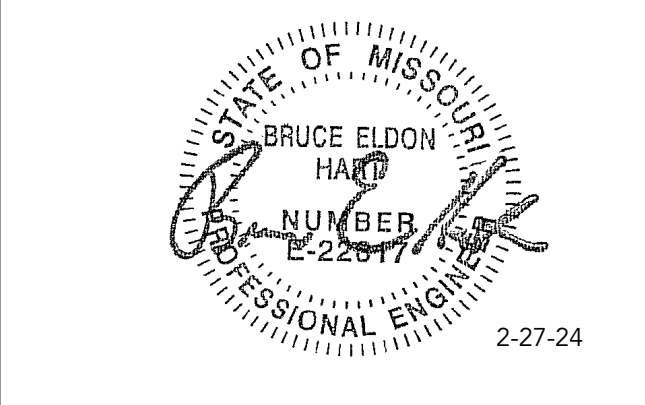
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6TH FLOOR PLAN - LIGHTING | B5

SCALE: 1/8" = 1'-0"

**6TH FLOOR PLAN -
 LIGHTING**

E206

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SHEET NOTES:

- REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
- ALL 120 VOLT CIRCUITS SHALL BE CIRCUITED TO PANEL P6 IN ELECTRICAL ROOM CE622 ON THIS FLOOR, UNLESS NOTED OTHERWISE. REFER TO SHEET E600 FOR PANEL SCHEDULES.
- REFER TO SHEET E600 FOR PANEL SCHEDULES.

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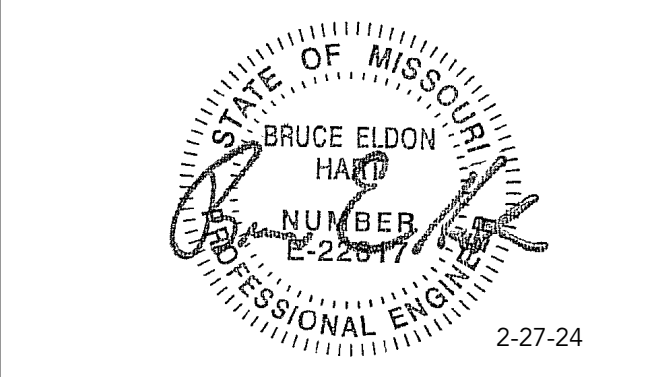
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**6TH FLOOR PLAN -
POWER**

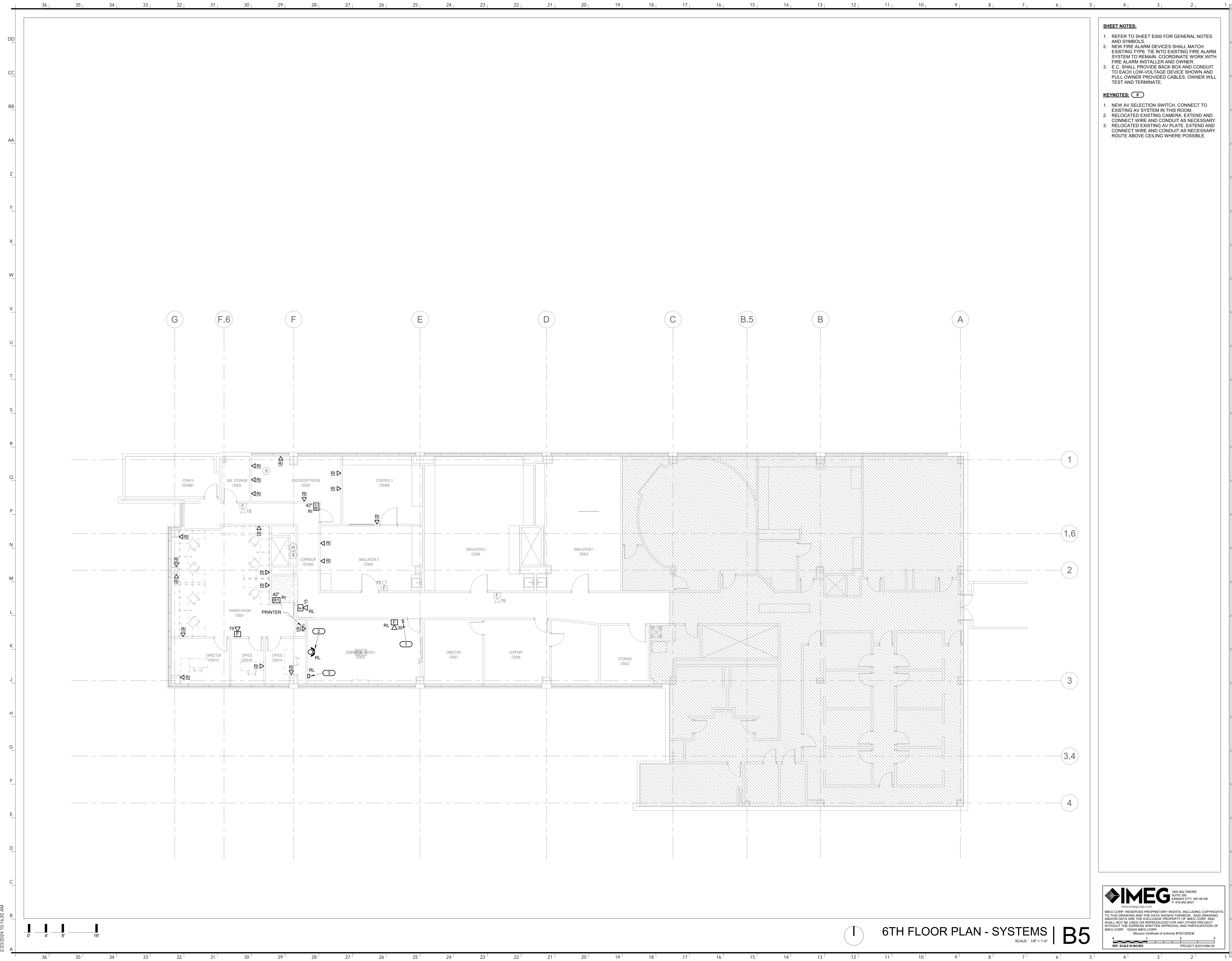
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6TH FLOOR PLAN - POWER | B5
 SCALE: 1/8" = 1'-0"

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SHEET NOTES:

- REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
- NEW FIRE ALARM DEVICES SHALL MATCH EXISTING TYPE. TIE INTO EXISTING FIRE ALARM SYSTEM TO REMAIN. COORDINATE WORK WITH FIRE ALARM INSTALLER AND OWNER.
- E.C. SHALL PROVIDE BACK BOX AND CONDUIT TO EACH LOW-VOLTAGE DEVICE SHOWN AND PULL OWNER PROVIDED CABLES. OWNER WILL TEST AND TERMINATE.

KEYNOTES: (D)

- NEW AV SELECTION SWITCH. CONNECT TO EXISTING AV SYSTEM IN THIS ROOM.
- RELOCATED EXISTING CAMERA. EXTEND AND CONNECT WIRE AND CONDUIT AS NECESSARY.
- RELOCATED EXISTING AV PLATE. EXTEND AND CONNECT WIRE AND CONDUIT AS NECESSARY. ROUTE ABOVE CEILING WHERE POSSIBLE.

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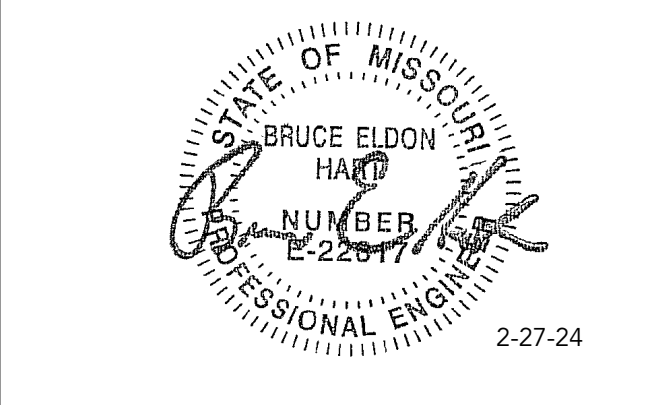
CLINICAL SUPPORT AND EDUCATION BUILDING - SIM CENTER RENOVATION

ISSUED FOR BID

5 HOSPITAL DR
 COLUMBIA, MO 65201

DATE: 02/27/2024
 PROJ. NO.: CP242241

DESIGNED BY: ZMB
 DRAWN BY: ZMB
 CHECKED BY: PLR
 APPROVED BY: PLR



Bruce E. Hart - Engineer
 MO# E-22817

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NO.	REVISION SUBMISSION	DATE
0	ISSUED FOR BID	02/27/2024

**6TH FLOOR PLAN -
 SYSTEMS**

E226

IMEG 1500 BALTIMORE
 SUITE 300
 KANSAS CITY, MO 64108
 P: 816.842.8377
 www.imegcorp.com

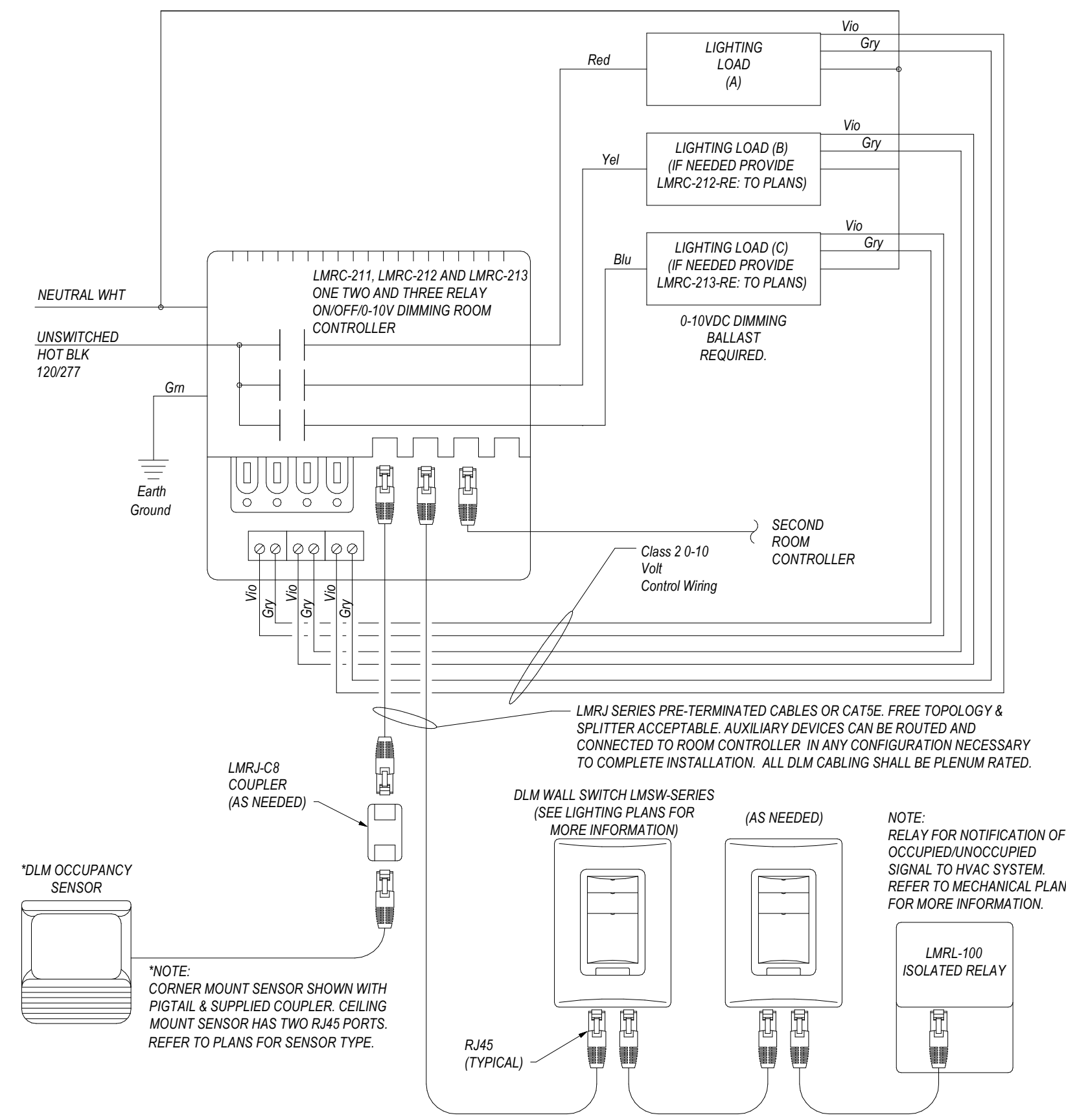
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 PROJECT #22010304.00

SCALE: 1/8" = 1'-0"

6TH FLOOR PLAN - SYSTEMS | B5

2/23/2024 10:16:20 AM

2/23/2024 10:16:20 AM



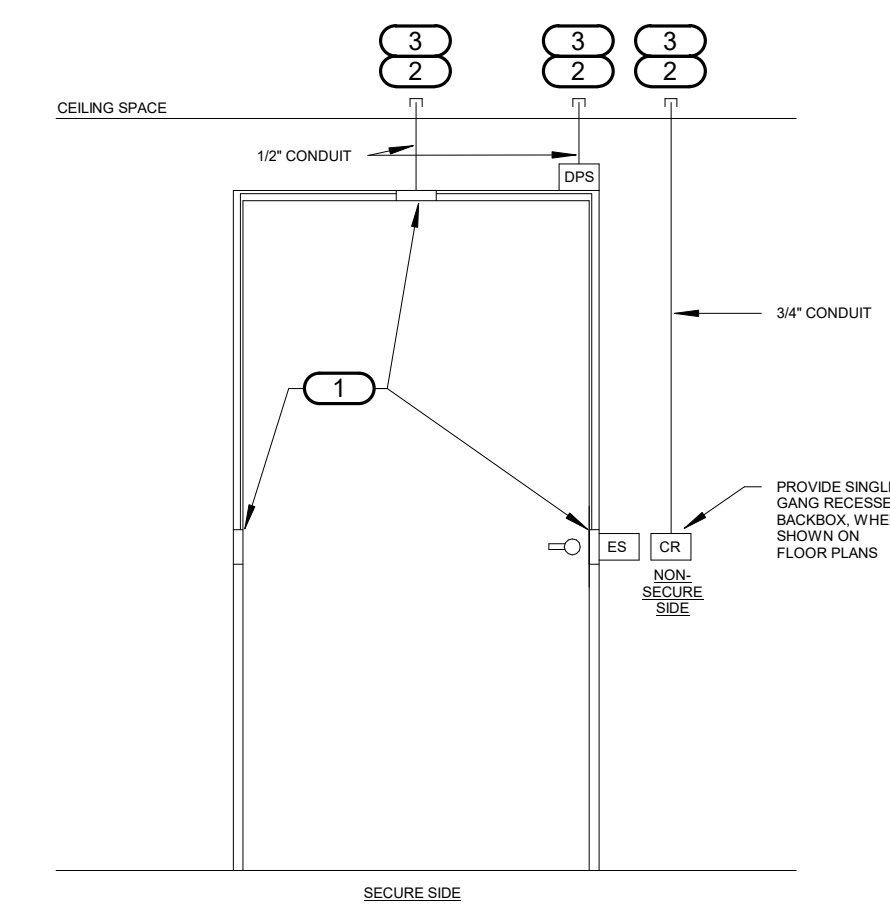
LMRC-211
SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-101 DEFAULTS TO MANUAL-ON/AUTOMATIC OFF.

LMRC-212
SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-102 DEFAULTS TO MULTI-LEVEL AUTOMATIC-ON/AUTOMATIC OFF. LOAD (A) ON THE LMRC-213 TURNS ON AUTOMATICALLY, WHILE LOAD (B) AND (C) DEFAULTS TO MANUAL-ON CONTROL. ALL RELAYS TURN OFF AUTOMATICALLY.

LMRC-213
IN THIS CONFIGURATION THE LMRC-213 SEQUENCE OF OPERATION: DEFAULTS TO MULTI-LEVEL AUTOMATIC-ON/AUTOMATIC OFF. LOAD (A) ON THE LMRC-213 TURNS ON AUTOMATICALLY, WHILE LOAD (B) AND (C) DEFAULTS TO MANUAL-ON CONTROL. ALL RELAYS TURN OFF AUTOMATICALLY.

NOTE:
-FURNISH WITH TWO (2) LMCT-100 DIGITAL WIRELESS CONFIGURATION TOOLS.
-PROVIDE COMMISSIONING AND TRAINING FOR ALL INSTALLATIONS.
-PROVIDE ENGRAVING FOR BUTTONS ON ALL INSTALLATIONS.
-ALL SHIELDING FOR OCCUPANCY SENSORS SHALL BE TURNED OVER TO OWNER.

1 DETAIL OF LMRC-211, LMRC-212 AND LMRC-213 ROOM CONTROLLER CABLING
NO SCALE



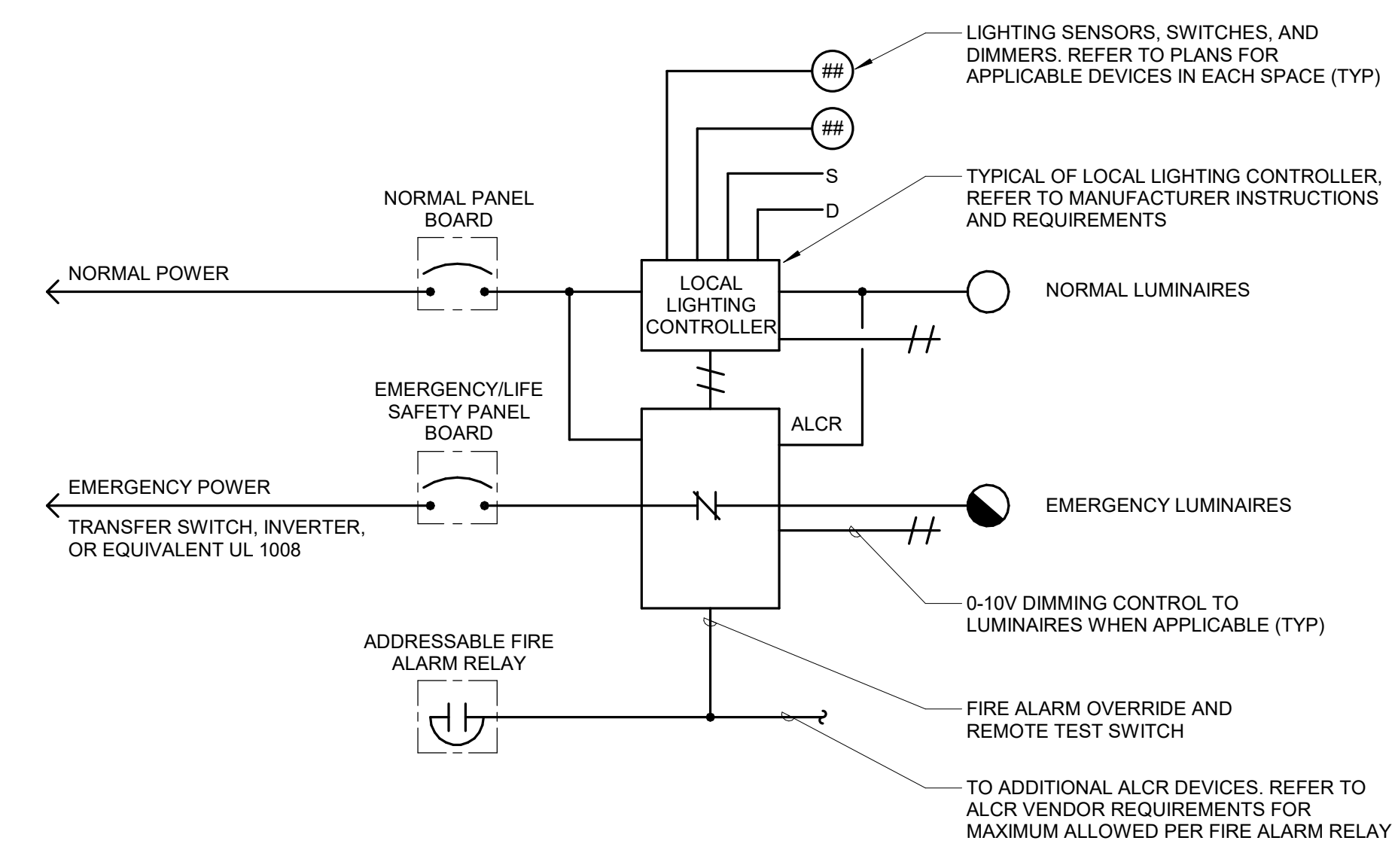
NOTES:

- DETAIL IS DIAGRAMMATIC ONLY AND MAY NOT REPRESENT ACTUAL DEVICES/QUANTITY OF DEVICES REQUIRED. COORDINATE ALL REQUIREMENTS WITH FINAL DOOR HARDWARE PROVIDED AND AS CALLED OUT ON ARCHITECTURAL DRAWINGS. COORDINATE WITH SECURITY SYSTEM INSTALLER FOR EXACT REQUIREMENTS AND REQUIREMENTS.
- COORDINATE FINAL REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE EACH ACCESS CONTROL DOOR WITH ONE (1) 18\"/>

KEYED NOTES:

- PROVIDE JUNCTION BOXES FLUSH WITH THE DOOR FRAME WITH 1/2\"/>
- STUB CONDUIT 6\"/>
- LOW VOLTAGE ACCESS CONTROL SYSTEM CABLES ROUTE TO DOOR ACCESS CONTROL PANEL IN LOCAL TELECOMMUNICATION ROOM.

2 MU CARD READER DETAIL
NO SCALE



NOTES:

- THE ALCR RELAY DIAGRAM IS INTENDED TO CONVEY INTENDED OPERATION AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, ALL DEVICES, WIRING, AND CONNECTIONS REQUIRED. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS.
- MOUNT LOCAL LIGHTING CONTROLLERS ABOVE FINISHED CEILING NEAR ROOM ENTRANCE. IN A CORRIDOR, MOUNT NEAR ONE END OF CORRIDOR AND ADJACENT TO FIRST SENSOR OR CONTROL DEVICE.
- MOUNT ALCR ADJACENT TO LIGHTING CONTROLLER ABOVE ACCESSIBLE FINISHED CEILING.
- FIRE ALARM ADDRESSABLE RELAY SHALL OVERRIDE LOCAL LIGHTING CONTROLS UPON FIRE ALARM OR TEST.

3 AUTOMATIC LOAD CONTROL RELAY DIAGRAM (ALCR)
NO SCALE
E_LC08

IMEG
1500 BALTIMORE
SUITE 300
KANSAS CITY, MO 64108
P: 816.842.9437
www.imegcorp.com

MISSOURI CERTIFICATE OF AUTHORITY #01325538
PROJECT #22010304.00

INTERNATIONAL ARCHITECTS ATELIER
912 BROADWAY BLVD, SUITE 300 | KANSAS CITY, MO 64105
P: 816.471.6522 | F: 816.471.3755 | W: I-A-A.COM
MISSOURI STATE CERTIFICATE OF AUTHORITY #000582

MEP CONSULTANT
IMEG CORP.
1600 BALTIMORE
KANSAS CITY, MO 64108
PH: 816.842.837



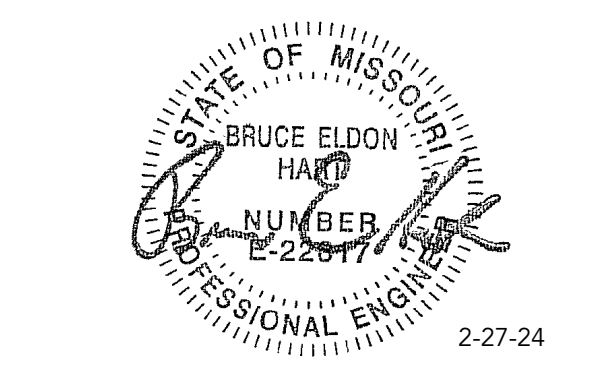
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ELECTRICAL DETAILS

E400



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SEAL:

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MO# E-22817
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ELECTRICAL SCHEDULES

E600

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(L/L) LENS/LOUVER:	K19 - KSH19 .156" ACRYLIC
FA - FLAT ALUMINUM	II - ANSIES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A - .125" ACRYLIC	M - MATTE DIFFUSE CLEAR
FS - FLAT STEEL	III - ANSIES TYPE 3 DISTRIBUTION	SP - SPOT	B - Baffle/LOUVER	N - NONE
RA - REGRESSED ALUMINUM	IV - ANSIES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	P - POLYCARBONATE
RS - REGRESSED STEEL	V - ANSIES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	R - HIGH IMPACT DR ACRYLIC
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	SS - SEMI-SPECULAR CLEAR
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	K - KSH12 .125" ACRYLIC	O - OTHER (SEE DESCRIPTION)
CPSA - COLOR-FINISH SELECTION BY ARCHITECT				[DESIGN SPECIFIC BLANKS]

(MTG) MOUNTING: RE - RECESSED
CL - CEILING SURFACE
CV - COVE
FR - FLANGED RECESSED
P - PERIMETER
PL - POLE

(WATT) PER: FIX - FIXTURE, FT - FOOT, LAMP
(TYPE) LED
LED - LIGHT EMITTING DIODE
FLED - TUBULAR LED LAMP
OLED - ORGANIC LED
DLED - DYNAMIC TUNABLE LED

REB - COLOR CHANGING LED
RGBW - COLOR CHANGING + WHITE
RGBA - COLOR CHANGING + AMBER
WLED - RETROFIT LED
WLED - WARM DIM LED

(TYPE) DRIVER:
0-10V - 0-10V DIMMING
DALI - DIGITAL ADDRESSABLE
DMX - DIGITAL MULTIPLEX

EB - ELECTRONIC
ELV - ELECTRONIC LOW VOLTAGE
EM - EMERGENCY BATTERY

HL - HIGH/LOW (100%/50%) STEP DIM
LINE - LINE VOLTAGE DIMMING
ML - MULTI-LEVEL SWITCHING

RE - REMOTE
O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26.51.19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	L/L	MTG	DIMENSIONS				WATT		LED		DRIVER			
				L	W	H	DIA.	ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL
A	2x4' DIRECT/INDIRECT TROFFER FOR LED SOURCE, DIFFUSE MATTE ACRYLIC CENTER SHIELDING, FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL.	O	RE	4'-0"	2'-0"	5 1/2"		30 W	FIX	LED	1	3500 LUMENS	277 V	0-10V	H.E. WILLIAMS AT1 SERIES
A1	SAME AS TYPE A EXCEPT 2x2'	O	RE	2'-0"	2'-0"	5 1/2"		32 W	FIX	LED	1	3500 LUMENS	277 V	0-10V	H.E. WILLIAMS AT1 SERIES

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. (L#) DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. (B#) PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS (L#). COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
3. (Z#) DENOTES LIGHTING CONTROL ZONE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
4. # = SWITCH DESIGNATION FOR LIGHTING CONTROL.
5. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.
6. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
7. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

PLAN ID	LIGHTING SWITCHED
(LD1)	Sequence: Dimmed lights are controlled in this space. ON: The lights shall turn on manually via lighting control station. ADJUST: The dimming luminaires are raised/lowered using a push button wall controller(s). OFF: The lights turn off manually via lighting control station, or automatically shut off, via occupancy sensor, once the space has been unoccupied for 20 minutes.
(LD2)	Sequence: Dimmed lights are controlled in this space. ON: The lights shall turn on manually via lighting control station. ADJUST: The dimming luminaires are raised/lowered using a push button wall controller(s). OFF: The lights turn off manually via lighting control station, or automatically shut off, via occupancy sensor, once the space has been unoccupied for 20 minutes. ADDITIONAL CONTROL: Dimmable luminaires within the space that are within the daylight zone or required by the energy code shall continuously adjust to the presence of daylight to maintain a minimum 30 foot candles. After the space reaches 45 foot candles, the luminaires shall completely shut off. The daylight sensor shall not increase the light output above 20% unless the space is occupied.

EX. PANEL P6

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: --
LOCATION: ELEC. C622

MAIN: 150 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

SOLID NEUTRAL GROUND BUS

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD	WIRE SIZE	A	B	C	WIRE SIZE	OCPD	LOAD DESCRIPTION	CKT NO.	K E Y
			AMPS P	H N G				G N H P	AMPS			
A	1	REC. OFFICES 601, 602	20 A	12 12 12	0.9	0				20 A EXISTING LOAD	2	--
A	3	REC. OFFICES 602, 603	20 A	12 12 12		1.08	0			20 A EXISTING LOAD	4	--
--	5	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	6	--
--	7	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	8	--
--	9	EXISTING LOAD	20 A	1			0	0		20 A EXISTING LOAD	10	--
--	11	EXISTING LOAD	20 A	1				0	0	20 A EXISTING LOAD	12	--
--	13	EXISTING LOAD	20 A	1		0	1.08			20 A REC. SHARED OFFICE	14	A
--	15	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	16	--
--	17	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	18	--
--	19	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	20	--
--	21	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	22	--
--	23	EXISTING LOAD	20 A	1					1.08	20 A REC. SHARED OFFICE	24	A
--	25	EXISTING LOAD	20 A	1		0	0.54			20 A REC. SHARED OFFICE	26	A
--	27	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	28	--
--	29	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	30	--
--	31	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	32	--
--	33	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	34	--
--	35	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	36	--
--	37	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	38	--
--	39	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	40	--
--	41	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	42	--
--	43	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	44	--
--	45	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	46	--
--	47	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	48	--
--	49	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	50	--
--	51	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	52	--
--	53	EXISTING LOAD	20 A	1						20 A REC. PRINTER SHARED OFFICE	54	A
A	55	REC. ENDOSCOPY RM 605	20 A	12 12 12	0.72	0			0.18	20 A EXISTING LOAD	56	--
--	57	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	58	--
--	59	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	60	--
A	61	REC. ENDOSCOPY RM 605	20 A	12 12 12	0.54	0.9				20 A REC. ENDOSCOPY RM 605 & CONTROL	62	A
A	63	VARIABLE POWER SUPPLY, ENDO. RM 605	20 A	12 12 12		0.5	0			20 A SPARE	64	--
--	65	SPARE	20 A	1						20 A SPARE	66	--
--	67	SPACE	--	1						SPACE	68	--
--	69	SPACE	--	1						SPACE	70	--
--	71	SPACE	--	1						SPACE	72	--
--	73	SPACE	--	1						SPACE	74	--
--	75	SPACE	--	1						SPACE	76	--
--	77	SPACE	--	1						SPACE	78	--
--	79	SPACE	--	1						SPACE	80	--
--	81	SPACE	--	1						SPACE	82	--
--	83	SPACE	--	1						SPACE	84	--
Total Load:			4.68 kVA	1.58 kVA	1.26 kVA							
Total Amps:			38.41	13.58	10.50							

LOAD CLASSIFICATION

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Power	0.5 kVA	100.00%	0.5 kVA
Receptacles	7.02 kVA	100.00%	7.02 kVA
TOTAL CONNECTED LOAD:			7.52 kVA
TOTAL ESTIMATED DEMAND LOAD:			7.52 kVA
TOTAL CONNECTED AMPS:			20.87 A
TOTAL ESTIMATED DEMAND AMPS:			20.9 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.
CIRCUIT KEY NOTES: A - EXISTING SPARE CIRCUIT BREAKER.

EX. PANEL L5

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: --
LOCATION: --

MAIN: 100 A MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

SOLID NEUTRAL GROUND BUS

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD	WIRE SIZE	A	B	C	WIRE SIZE	OCPD	LOAD DESCRIPTION	CKT NO.	K E Y
			AMPS P	H N G				G N H P	AMPS			
--	1	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	2	--
--	3	EXISTING LOAD	20 A	1			0	0		20 A EXISTING LOAD	4	--
--	5	EXISTING LOAD	20 A	1				0	0	20 A EXISTING LOAD	6	--
--	7	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	8	--
--	9	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	10	--
--	11	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	12	--
--	13	EXISTING LOAD	20 A	1		0	0			20 A EXISTING LOAD	14	--
--	15	EXISTING LOAD	20 A	1						20 A EXISTING LOAD	16	--
--	17	EXISTING LOAD	20 A	1					0.76	10 10 10 LTS. RMS 603, 604, 630	18	A
--	19	SPACE	--	1						SPACE	20	--
--	21	SPACE	--	1						SPACE	22	--
--	23	SPACE	--	1						SPACE	24	--
--	25	SPACE	--	1						SPACE	26	--
--	27	SPACE	--	1						SPACE	28	--
--	29	SPACE	--	1						SPACE	30	--
Total Load:			0.00 kVA	0.00 kVA	0.76 kVA							
Total Amps:			0.00	0.00	2.74							

LOAD CLASSIFICATION

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	0.76 kVA	100.00%	0.76 kVA
TOTAL CONNECTED LOAD:			0.76 kVA
TOTAL ESTIMATED DEMAND LOAD:			0.76 kVA
TOTAL CONNECTED AMPS:			0.91 A
TOTAL ESTIMATED DEMAND AMPS:			0.9 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.
CIRCUIT KEY NOTES: A - EXISTING SPARE CIRCUIT BREAKER.

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PROJECT #2019394.00