

# CLINICAL SUPPORT & EDUCATION

SIM CENTER TRAINING  
SPACE RENOVATION,  
PHASE II



FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

ISSUED FOR BID

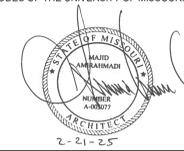
02/21/2025

CP250271

**INTERNATIONAL ARCHITECTS ATELIER**



I HEREBY CERTIFY THAT DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME,  
OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE  
THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH  
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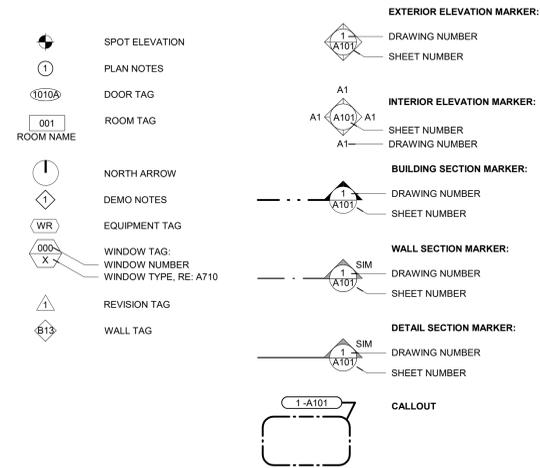


MAJID AMRAHMADI, AIA  
INTERNATIONAL ARCHITECTS ATELIER

**DEFERRED SUBMITTAL ITEMS:**  
DIGITAL, ADDRESSABLE FIRE ALARM SYSTEMS RE: 283111  
WET-PIPE SPRINKLER SYSTEMS RE: 211313

**SPECIAL INSPECTIONS:**  
THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.  
a. STRUCTURAL STEEL FABRICATIONS (UNLESS ALSO APPROVED) (PERIODIC)  
b. STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)  
c. POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)  
THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

## DEFERRED SUBMITTALS & SPECIAL INSP. | AA27



## ARCHITECTURAL SYMBOLS | S27

<b>A</b>	<b>G</b>	<b>P</b>
A/E ARCHITECT/ENGINEER ADD ADDENDUM ADJ ADJUSTABLE ADJ ADJACENT AFF ABOVE FINISH FLOOR AL ALUMINUM ALT ALTERNATE APPROX APPROXIMATE(LY) ARCH ARCHITECT(URAL)	GA GAUGE GC GENERAL CONTRACTOR	PA POWER ASSIST PAR PARALLEL PERIM PERIMETER PL PLATE PNL PANEL PR PAIR PTD PAINTED PTN PARTITION PTS PNEUMATIC TUBE STATION
<b>B</b>	<b>H</b>	<b>Q</b>
BD BLDG BOARD BLKG BLOCKING BM BEAM BO BOTTOM OF BOT BOTTOM BRKT BRACKET BS BOTH SIDES BTW BETWEEN	H HIGH, HEIGHT HT HEIGHT HD HEAD HDW HARDWARE HM HOLLOW METAL HO HOLD OPEN HR HORIZONTAL HR HANDRAIL(S)	QTY QUANTITY
<b>C</b>	<b>J</b>	<b>R</b>
CEN CENTER CJ CONTROL JOINT CL CENTER LINE CLG CEILING CLR CLEARANCE CNTR COUNTER COL COLUMN CONC CONCRETE CONN CONNECTION CONST CONSTRUCTION CONT CONTINU(E)OUS(ATION) CR CARD READER CW CURTAIN WALL	JST JOIST JT JOINT	R RADIUS, RADII RISER RCP REFLECTED CEILING PLAN RD ROOF DRAIN REF REFERENCE REIN REINFORC(E)D(ING) REQD REQUIRED REV REVIS(E)D(ION) RM ROOM RO ROUGH OPENING
<b>D</b>	<b>K</b>	<b>S</b>
DEM DEMO DED DEDICATED DET DETAIL DIA DIAMETER DIM DIMENSION DN DOWN DO DATA OUTLET DR DOOR DW(G) DRAWINGS	KS KNEE SPACE	SECT SECTION SF SQUARE FOOT/FEET SHT SHEET(ING) SHTG SHEATHING SIM SIMILAR SKLT SKYLIGHT(S) SPEC(S) SPECIFICATION(S) SPK SPEAKER SS STAINLESS STEEL STD STANDARD STL STEEL STRUC STRUCTURE(E)AL SYM SYMMETRY(E)ICAL
<b>E</b>	<b>L</b>	<b>T</b>
E/ELEVATOR EA EACH EJ EXPANSION JOINT EL ELEVATION ELEC ELECTRICAL(AL) ELEV ELEVATOR EO ELECTRICAL OUTLET EQ EQUAL EQUIP EQUIPMENT ETR EXISTING TO REMAIN EXCL EXCLUDE EXG EXISTING (E), EXIST EXP EXPAND EXT EXTERIOR EXTR EXTERIOR	L LENGTH LAV LAVATORY LF FEET LFT LIGHT LTG LIGHTING LVL LEVEL	T TREAD TD TELEPHONE DATA OUTLET TEL TELEPHONE TEMP TEMPORARY TME TIME TO TOP OF TYP TYPICAL
<b>F</b>	<b>M</b>	<b>U</b>
FAS FASTENED(ER) FSTR FASTENED(ER) FD FLOOR DRAIN FDN FOUNDATION FLR FLOOR(ING) FO FACE OF FT FOOT/FEET FTG FOOTING	MAS MASONRY MATL MATERIAL MAX MAXIMUM MECH MECHANICAL(LY) MET METAL MFR MANUFACTURER MTL METAL MIN MINIMUM MISC MISCELLANEOUS MO MOUNT(ED) MUL MULLION	UC UNDER CABINET UCL UNDER CABINET LIGHTING UNO UNLESS NOTED OTHERWISE UR URINAL
<b>G</b>	<b>N</b>	<b>V</b>
OFPI OWNER FURNISHED, CONTRACTOR INSTALLED OFOW OWNER FURNISHED, OWNER INSTALLED OFVI OWNER FURNISHED, VENDOR INSTALLED OH OVERHEAD OPP OPPOSITE OPT OPTIONAL(AL)	N/A NOT APPLICABLE NEC NECESSARY NIC NOT IN CONTRACT NO2 NITROGEN NOM NOMINAL NTS NOT TO SCALE	VAC VACUUM VAR VARI(ATION) VEN VENT VERT VERTICAL VIF VERIFY IN FIELD
<b>H</b>	<b>O</b>	<b>W</b>
OFPI OWNER FURNISHED, CONTRACTOR INSTALLED OFOW OWNER FURNISHED, OWNER INSTALLED OFVI OWNER FURNISHED, VENDOR INSTALLED OH OVERHEAD OPP OPPOSITE OPT OPTIONAL(AL)	O OXYGEN O2 OXYGEN OC ON CENTER OD OUTSIDE OD DIAMETER/DIMENSION	W WIDE, WIDTH WITH WITH W/O WITHOUT WC WATER CLOSET WD WOOD WSCT WAINSCOT
<b>I</b>	<b>X</b>	<b>X</b>
OFPI OWNER FURNISHED, CONTRACTOR INSTALLED OFOW OWNER FURNISHED, OWNER INSTALLED OFVI OWNER FURNISHED, VENDOR INSTALLED OH OVERHEAD OPP OPPOSITE OPT OPTIONAL(AL)	XP(D) EXPOSE(D)	

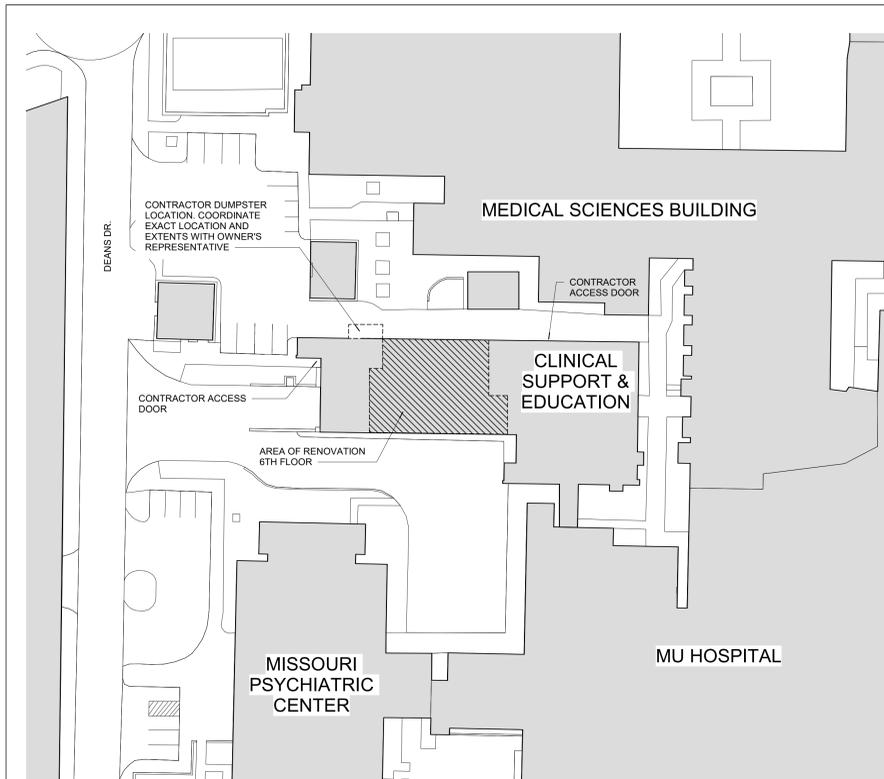
## ABBREVIATIONS | B27

- ALL WORK SHALL COMPLY WITH FEDERALLY MANDATED ADA, ALL APPLICABLE CODES, AND STANDARDS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND DRAWINGS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR WITH APPROXIMATE SIZES AND ARE NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL USE EXTREME CARE AND TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ADJACENT FACILITIES. ANY DAMAGE DONE TO EXISTING FACILITIES DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL DIMENSIONS ARE NOMINAL AND ARE FINISH TO FINISH OR FACE TO FACE OF CONSTRUCTION UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PATCH OR REPAIR, PAINT OR RESTORE AND REFINISH (AS APPLIES) ALL ADJACENT SURFACES AFFECTED BY NEW CONSTRUCTION OR DEMOLITION.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS. COORDINATE DUMPSTER LOCATION AND ACCESS WITH THE OWNER AS REQUIRED.
- SHOULD ANY DOUBT OR QUESTION ARISE WITH RESPECT TO THE TRUE MEANING OF THE DRAWINGS OR SPECIFICATIONS, REFERENCE SHALL BE MADE TO THE ARCHITECT WHOSE DECISIONS THEREON SHALL BE FINAL AND CONCLUSIVE.
- CONTRACTOR SHALL NOT ENGAGE IN ANY ACTIVITY WHICH MAY ENDANGER THE PUBLIC.
- CONTRACTOR IS REQUIRED, PRIOR TO THE START OF CONSTRUCTION, TO SURVEY THE AREAS WHICH WOULD BE AFFECTED BY THE CONSTRUCTION FOR DOCUMENTATION OF EXISTING DAMAGES.
- CONTRACTOR IS ALLOWED TO STORE MATERIALS ONLY IN DESIGNATED LOCATIONS AS APPROVED BY THE OWNER REPRESENTATIVE.
- CONTRACTOR IS REQUIRED TO PROVIDE EQUIPMENT AND TOOLS REQUIRED OR NECESSARY FOR THE OWNER, ARCHITECT, AND ENGINEER TO REVIEW THE CONSTRUCTION IN PROGRESS AND DURING INSPECTIONS.
- CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTS DURING THE CONSTRUCTION OF THE PROJECT AS REQUIRED FOR THE SAFETY AND SECURITY OF THE PUBLIC FOR ALL AREAS AFFECTED BY CONSTRUCTION AS REQUIRED TO ACHIEVE MIN 1/2 FOOT CANDLE LIGHT LEVEL.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND PROTECT THE REQUIRED FIRE EXITS AND ROUTE TO THOSE EXITS AT ALL TIMES.

## GENERAL NOTES | X14

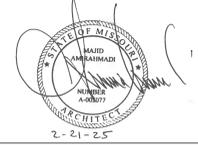
- PRIOR TO COMMENCING DEMOLITION WORK, THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND MAKE PROVISION THAT NO INTERRUPTION OF SERVICES OCCUR TO OTHER BUILDING TENANTS. COORDINATE ANY SERVICE INTERRUPTIONS WITH OWNER.
- ALL MATERIALS NOT REQUIRED TO BE REMOVED FOR THE EXECUTION OF THE PROJECT SHALL BE LEFT IN PLACE AND PROTECTED FROM DAMAGE DURING DEMOLITION. ANY ITEMS DAMAGED DURING DEMOLITION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITIONS OF ITEMS TO BE DEMOLISHED.
- CUT AND REMOVE/REPLACE ALL PORTIONS OF EXISTING CONSTRUCTION AS REQUIRED TO ALLOW ACCESS TO ITEMS NOTED FOR DEMOLITION AND FOR PROPER INSTALLATION OF NEW CONSTRUCTION.
- AT ANY TIME DURING DEMOLITION, IF ANY CONTRACTOR DISCOVERS HAZARDOUS MATERIALS, STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.
- LEAVE ALL MAJOR STRUCTURAL COLUMNS AND BEAMS UNDISTURBED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE REMAINING. IF ANY SUCH CONDITION EXISTS, OR RESULTS DURING THE PROCESS OF DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND ARCHITECT IMMEDIATELY.
- ALL DASHED LINES ON DRAWINGS INDICATE ITEMS TO BE REMOVED, U.N.O.
- ALL DEMOLITION MUST REMAIN INSIDE CONSTRUCTION LIMITS, U.N.O.
- RETAIN AND PROTECT ALL SALVAGEABLE MATERIALS SELECTED BY OWNER AND ARCHITECT FOR REUSE ELSEWHERE. CONTRACTOR SHALL CATALOG ALL MATERIAL REMOVED FOR SALVAGE WITH ORIGINAL LOCATION AND LOCATION OF STORAGE. ALL SALVAGED MATERIALS SHALL BE CLEANED AND STORED IN A DRY PLACE ON THE SITE, ELEVATED OFF THE GROUND WITH ADEQUATE AIR FLOW AND PROTECTION FROM THE WEATHER AS NECESSARY.
- NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN/JOINING CONSTRUCTION.
- CONTRACTOR SHALL COMPLETELY REMOVE ALL DEMOLISHED MATERIALS FROM SITE. ALL DEMOLISHED MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS THEY ARE TO BE REUSED, OR AS OTHERWISE NOTED OR INSTRUCTED, AND TO BE DISPOSED OF LEGALLY. REMOVE DEBRIS, RUBBISH, AND OTHER MATERIALS DAILY FROM CONSTRUCTION SITE.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK REQUIRED FOR ONE TRADE WITH OTHER TRADES THAT WILL BE AFFECTED BY THAT WORK.

## GENERAL DEMOLITION NOTES | Q14



## STAGING PLAN | B14

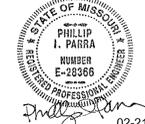
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MAJID AMIRAHMADI, AIA  
INTERNATIONAL ARCHITECTS ATELIER

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PHILLIP I. PARRA, PE  
IMEG CORP.

PHILLIP I. PARRA - ENGINEER  
MO# E-28366

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I, GREG LINNEMAN, PE, MISSOURI REGISTERED ENGINEER, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED STRUCTURAL DRAWINGS AND DETAILS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.



GREG LINNEMAN, PE  
CROCKETT ENGINEERING CONSULTANTS

GREGORY L. LINNEMAN, PE  
MO LICENSE - 20500/013

## PROFESSIONAL DISCLAIMER | Q6

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## DRAWING INDEX | V1



## CLINICAL SUPPORT & EDUCATION - SIM CENTER TRAINING SPACE RENOVATION, PHASE II

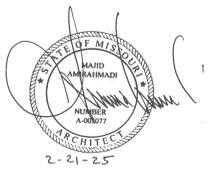
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5 HOSPITAL DR.  
COLUMBIA, MO 65201

DATE: 02/21/2025  
PROJ. NO.: CP250271

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

SEAL:



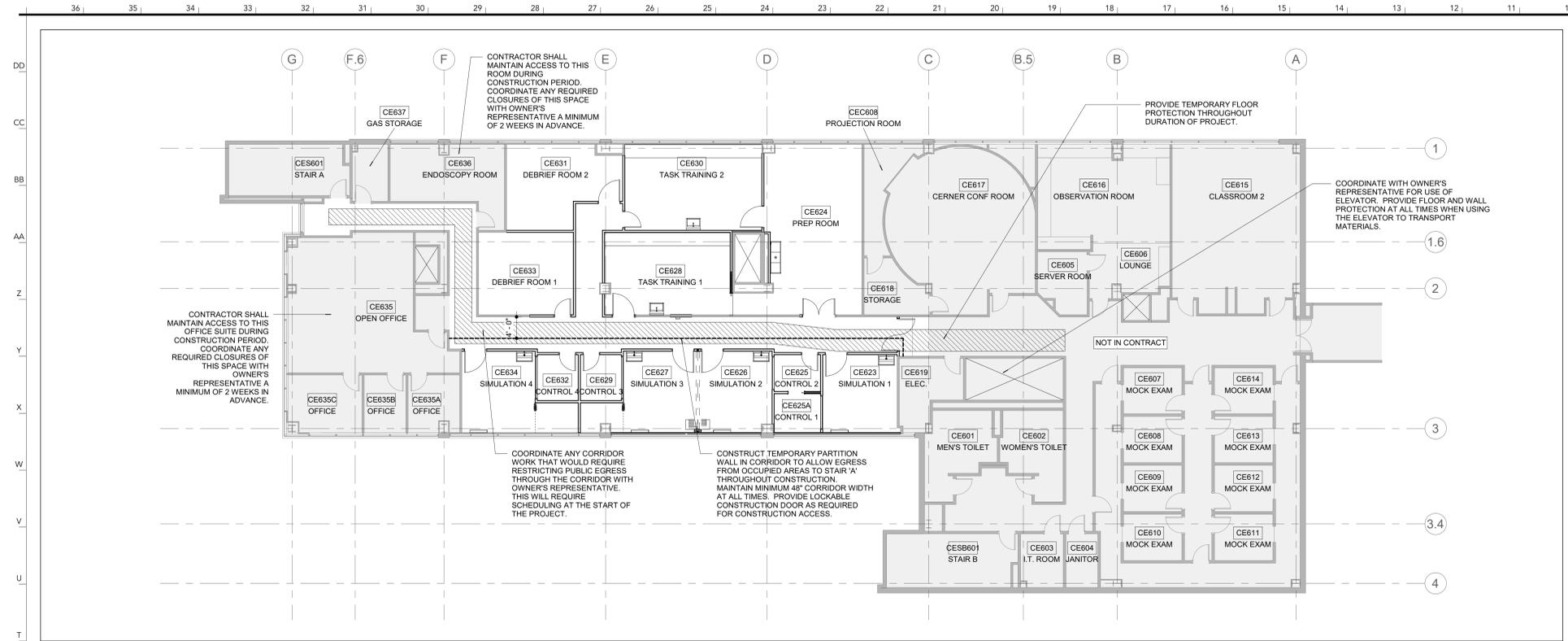
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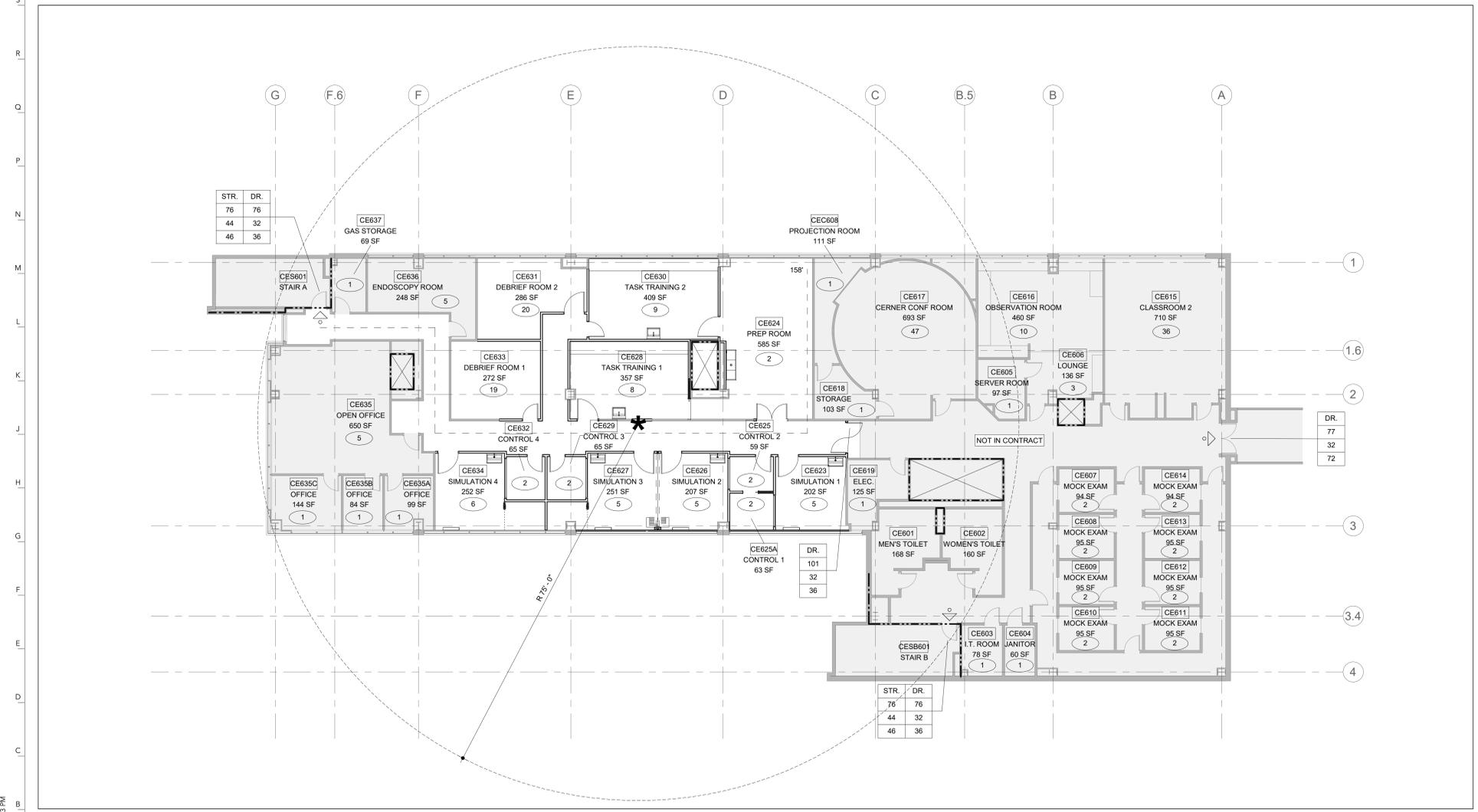
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## GENERAL INFORMATION

# G001



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



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
★	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)	2022 National Fire Alarm Code (NFPA 72)
2021 Installation of Air Conditioning and Ventilating Systems (NFPA 90A)	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

**Seismic Design Category:** C

**Site Classification:** D

**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: 0.2 inches per person (IBC 1005.3.1), 44 inches minimum (IBC 1011.2), 36 inches minimum serving occupant load less than 50 (IBC 1011.2 Exc. 1), 0.15 inches per person (IBC 1005.3.2), 32 inches minimum clear width (IBC 1010.1.1)
- Doors - Exit Width: 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

**Plumbing Fixtures:** Existing plumbing fixture counts to remain and are not required to be increased due to change in occupancy load not being increased more than 20%. (IEBC 1009.1, Exception)

**INTERNATIONAL ARCHITECTS ATELIER**  
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 MISSOURI STATE CERTIFICATE OF AUTHORITY #000582

**MEP CONSULTANT**  
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**STRUCTURAL CONSULTANT**  
 CROCKETT ENGINEERING CONSULTANTS  
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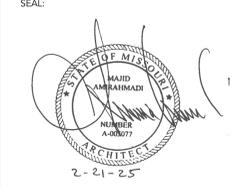
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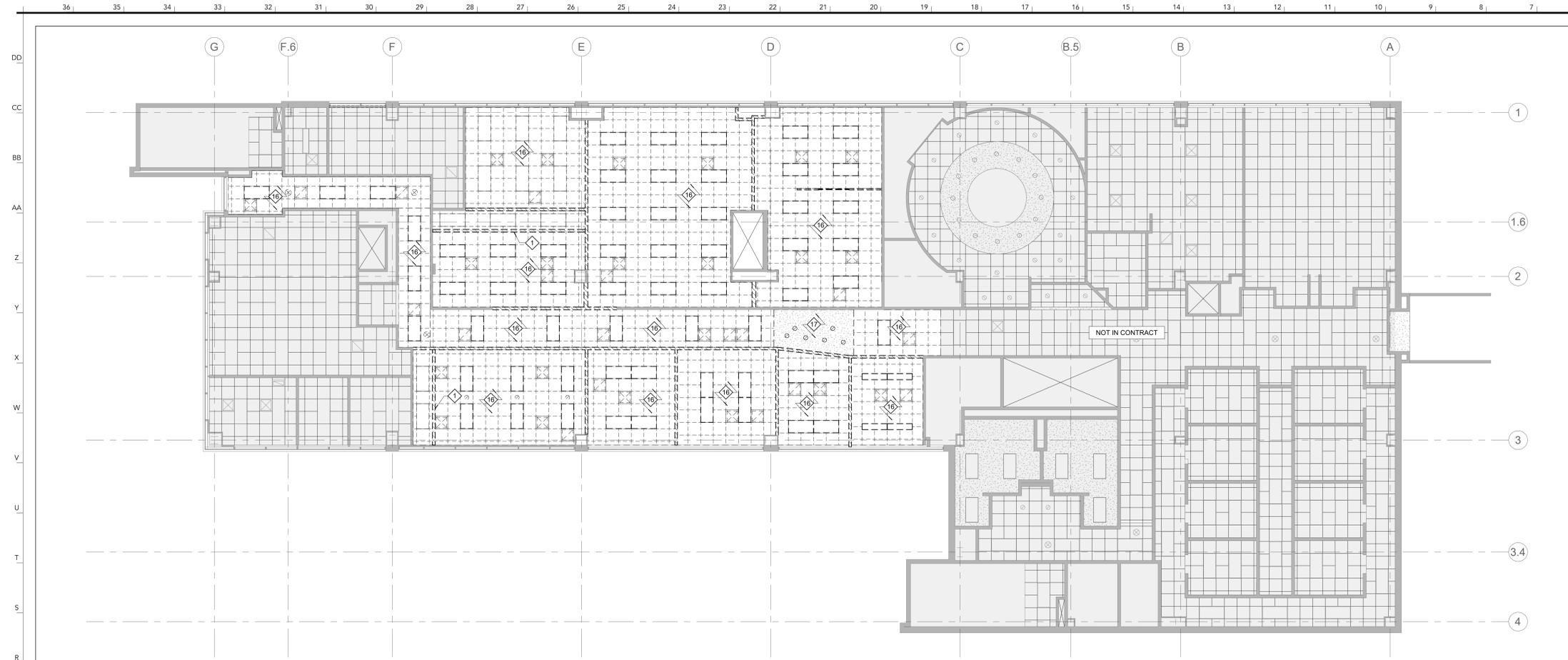
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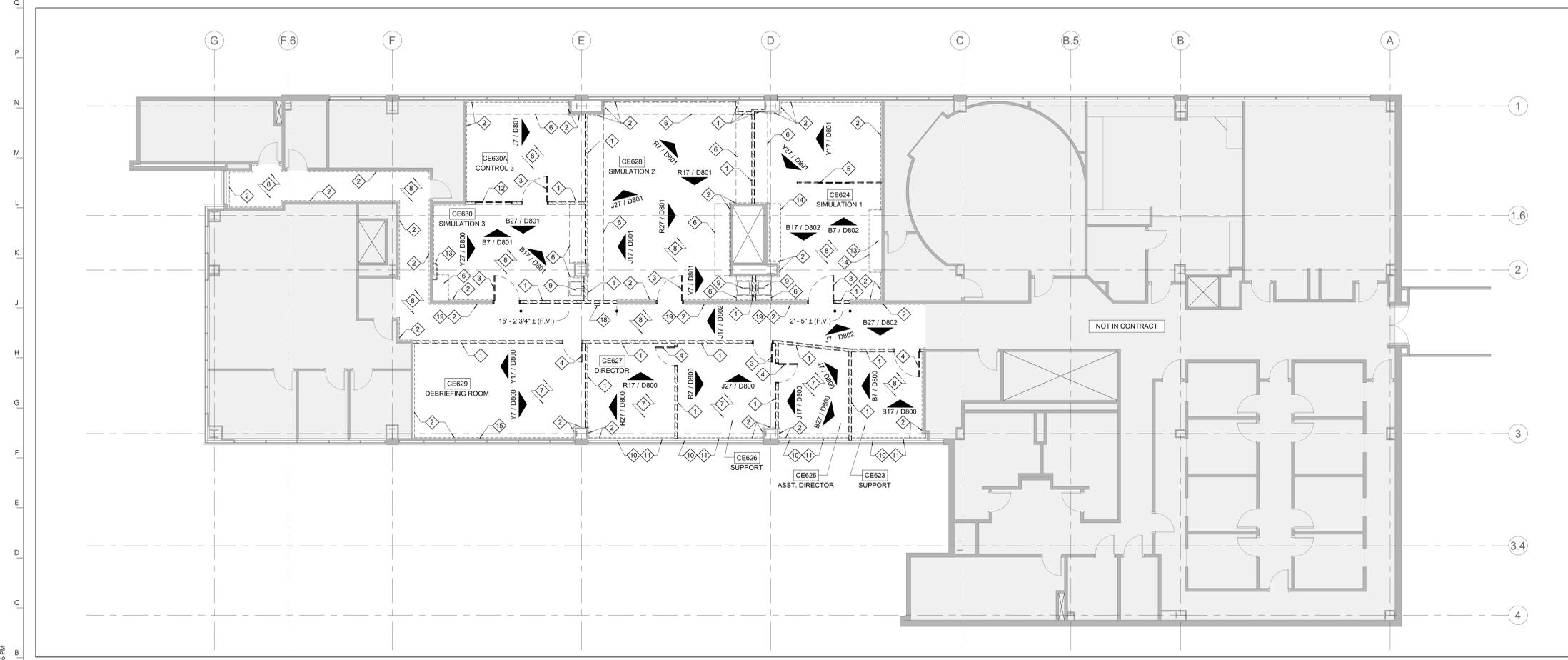
LIFE SAFETY PLAN / CODE ANALYSIS

**G002**

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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
  - INDICATES EXISTING ITEMS TO REMAIN.
  - INDICATES ITEMS TO BE DEMOLISHED.
- OR
- REFER TO G001 FOR GENERAL NOTES AND GENERAL DEMOLITION NOTES.
  - ALL REMOVABLE FURNISHINGS, WALL MOUNTED MEDICAL EQUIPMENT AND CONTAINERS, AND AV EQUIPMENT TO BE REMOVED BY OWNER PRIOR TO START OF CONSTRUCTION.
  - PREPARE ALL EXISTING WALLS WITHIN PROJECT SCOPE TO RECEIVE NEW PAINT. REMOVE AND PATCH ALL NAIL HOLES AND DAMAGED AREAS IN GYPSUM. REMOVE ALL ADHESIVES AND OTHER MATERIALS THAT WILL AFFECT THE APPLICATION OF NEW PAINT.
  - 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 AND SALVAGE WOOD DOOR FOR REINSTALLATION AT DOOR LOCATION SHOWN ON NEW WORK FLOOR PLAN. REMOVE DOOR FRAME AND HARDWARE AND ALL ASSOCIATED FRAME ANCHORAGE MATERIALS.
  - REMOVE DEMOUNTABLE PARTITION WALL AND ALL ASSOCIATED FRAMING.
  - REMOVE EXISTING CASEWORK AND COUNTERTOP AND ALL ASSOCIATED HARDWARE.
  - 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.
  - REMOVE AND SALVAGE PLUMBING FIXTURE AND DELIVER TO OWNER'S REPRESENTATIVE. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
  - REMOVE EXISTING WINDOW BLINDS, INCLUDING ALL BRACKETS AND ACCESSORIES.
  - REMOVE EXISTING SOLID SURFACE WINDOW SILL.
  - REMOVE HOLLOW METAL FRAME AND ONE-WAY GLASS.
  - REMOVE AND SALVAGE ALL HEADWALL CONTROLS AND DELIVER TO OWNER'S REPRESENTATIVE. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
  - REMOVE HEADWALL MILLWORK UNIT.
  - REMOVE WALLCOVERING AND SKIM COAT WALL TO RECEIVE NEW PAINTED FINISH.
  - REMOVE EXISTING ACOUSTICAL CEILING TILE, GRID AND ASSOCIATED HARDWARE AND SUSPENSION SYSTEM. REMOVE EXISTING LIGHT FIXTURES AND DIFFUSERS AND GRILLES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - REMOVE EXISTING GYPSUM BOARD CEILING. REMOVE EXISTING LIGHT FIXTURES. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - REMOVE AND SALVAGE FIRE EXTINGUISHER AND CABINET FOR REINSTALLATION AT LOCATION SHOWN ON NEW WORK FLOOR PLAN.
  - REMOVE EXISTING WALL PROTECTION AND PATCH WALLS TO REMAIN.



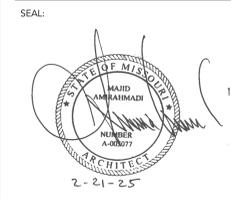
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CLINICAL  
SUPPORT &  
EDUCATION -  
SIM CENTER  
TRAINING  
SPACE  
RENOVATION,  
PHASE II

ISSUED FOR BID

5 HOSPITAL DR.  
COLUMBIA, MO 65201

DATE: 02/21/2025  
PROJ. NO.: CP250271  
DESIGNED BY: AS, BJ  
DRAWN BY: AS, SJ  
CHECKED BY: AS, MA  
APPROVED BY: MA



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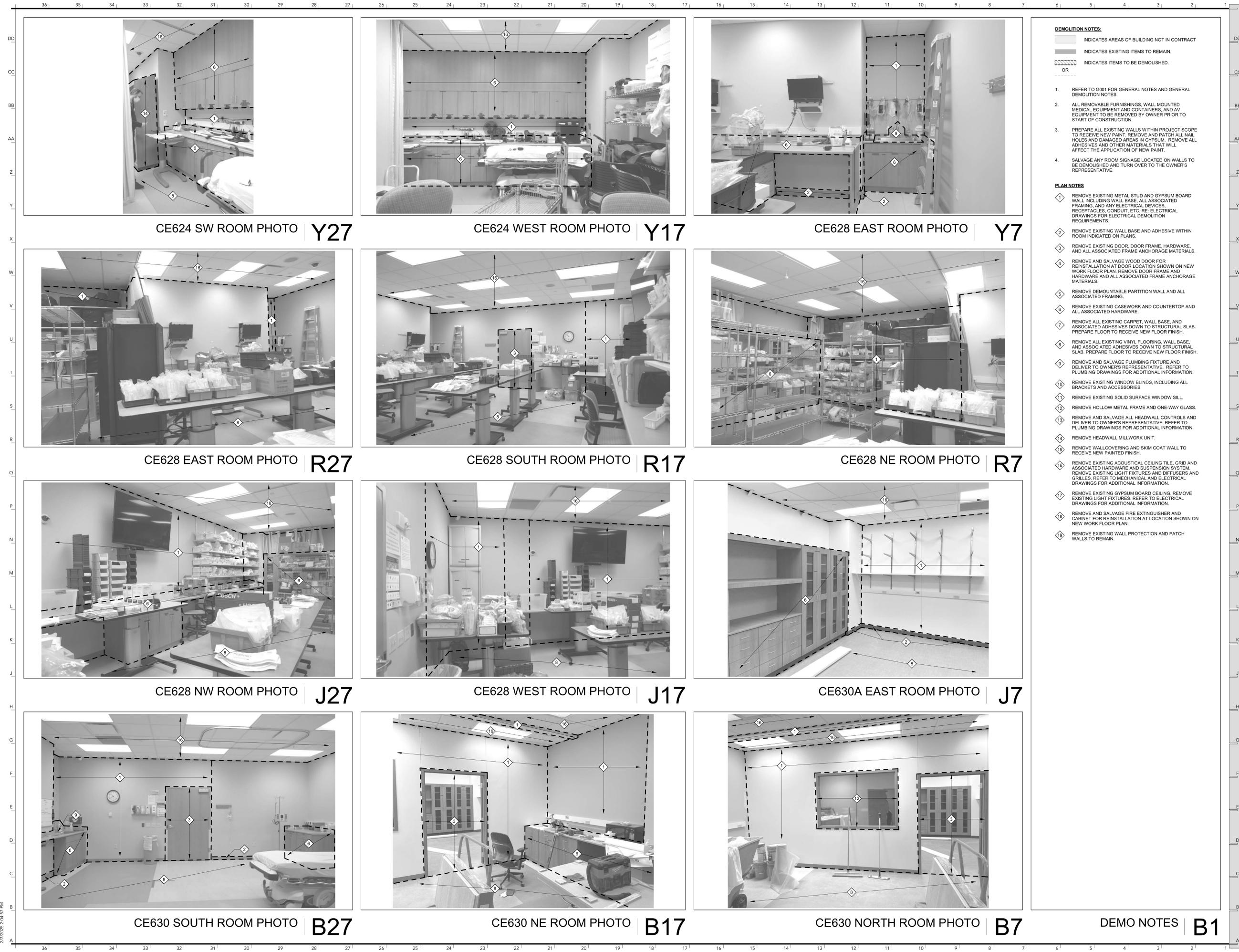
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DEMOLITION FLOOR  
AND CEILING PLANS

D100

2/7/2025 2:04:36 PM





CE624 SW ROOM PHOTO | Y27

CE624 WEST ROOM PHOTO | Y17

CE628 EAST ROOM PHOTO | Y7

CE628 EAST ROOM PHOTO | R27

CE628 SOUTH ROOM PHOTO | R17

CE628 NE ROOM PHOTO | R7

CE628 NW ROOM PHOTO | J27

CE628 WEST ROOM PHOTO | J17

CE630A EAST ROOM PHOTO | J7

CE630 SOUTH ROOM PHOTO | B27

CE630 NE ROOM PHOTO | B17

CE630 NORTH ROOM PHOTO | B7

**DEMOLITION NOTES:**

- INDICATES AREAS OF BUILDING NOT IN CONTRACT
- INDICATES EXISTING ITEMS TO REMAIN.
- INDICATES ITEMS TO BE DEMOLISHED.

1. REFER TO G001 FOR GENERAL NOTES AND GENERAL DEMOLITION NOTES.
2. ALL REMOVABLE FURNISHINGS, WALL MOUNTED MEDICAL EQUIPMENT AND CONTAINERS, AND AV EQUIPMENT TO BE REMOVED BY OWNER PRIOR TO START OF CONSTRUCTION.
3. PREPARE ALL EXISTING WALLS WITHIN PROJECT SCOPE TO RECEIVE NEW PAINT. REMOVE AND PATCH ALL NAIL HOLES AND DAMAGED AREAS IN GYPSUM. REMOVE ALL ADHESIVES AND OTHER MATERIALS THAT WILL AFFECT THE APPLICATION OF NEW PAINT.
4. SALVAGE ANY ROOM SIGNAGE LOCATED ON WALLS TO BE DEMOLISHED AND TURN OVER TO THE OWNER'S REPRESENTATIVE.

**PLAN NOTES**

1. 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.
2. REMOVE EXISTING WALL BASE AND ADHESIVE WITHIN ROOM INDICATED ON PLANS.
3. REMOVE EXISTING DOOR, DOOR FRAME, HARDWARE, AND ALL ASSOCIATED FRAME ANCHORAGE MATERIALS.
4. REMOVE AND SALVAGE WOOD DOOR FOR REINSTALLATION AT DOOR LOCATION SHOWN ON NEW WORK FLOOR PLAN. REMOVE DOOR FRAME AND HARDWARE AND ALL ASSOCIATED FRAME ANCHORAGE MATERIALS.
5. REMOVE DEMOUNTABLE PARTITION WALL AND ALL ASSOCIATED FRAMING.
6. REMOVE EXISTING CASEWORK AND COUNTERTOP AND ALL ASSOCIATED HARDWARE.
7. REMOVE ALL EXISTING CARPET, WALL BASE, AND ASSOCIATED ADHESIVES DOWN TO STRUCTURAL SLAB. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH.
8. REMOVE ALL EXISTING VINYL FLOORING, WALL BASE, AND ASSOCIATED ADHESIVES DOWN TO STRUCTURAL SLAB. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH.
9. REMOVE AND SALVAGE PLUMBING FIXTURE AND DELIVER TO OWNER'S REPRESENTATIVE. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
10. REMOVE EXISTING WINDOW BLINDS, INCLUDING ALL BRACKETS AND ACCESSORIES.
11. REMOVE EXISTING SOLID SURFACE WINDOW SILL.
12. REMOVE HOLLOW METAL FRAME AND ONE-WAY GLASS.
13. REMOVE AND SALVAGE ALL HEADWALL CONTROLS AND DELIVER TO OWNER'S REPRESENTATIVE. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
14. REMOVE HEADWALL MILLWORK UNIT.
15. REMOVE WALL COVERING AND SKIM COAT WALL TO RECEIVE NEW PAINTED FINISH.
16. REMOVE EXISTING ACOUSTICAL CEILING TILE, GRID AND ASSOCIATED HARDWARE AND SUSPENSION SYSTEM. REMOVE EXISTING LIGHT FIXTURES AND DIFFUSERS AND GRILLES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
17. REMOVE EXISTING GYPSUM BOARD CEILING. REMOVE EXISTING LIGHT FIXTURES. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
18. REMOVE AND SALVAGE FIRE EXTINGUISHER AND CABINET FOR REINSTALLATION AT LOCATION SHOWN ON NEW WORK FLOOR PLAN.
19. REMOVE EXISTING WALL PROTECTION AND PATCH WALLS TO REMAIN.



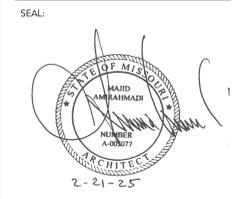
FOR THE CURATORS OF  
THE UNIVERSITY OF MISSOURI

**CLINICAL  
SUPPORT &  
EDUCATION -  
SIM CENTER  
TRAINING  
SPACE  
RENOVATION,  
PHASE II**

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**DEMOLITION  
PHOTOGRAPHS**

**D801**

**DEMO NOTES | B1**

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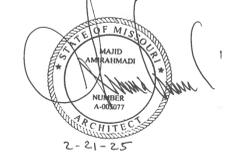
CLINICAL SUPPORT & EDUCATION - SIM CENTER TRAINING SPACE RENOVATION, PHASE II

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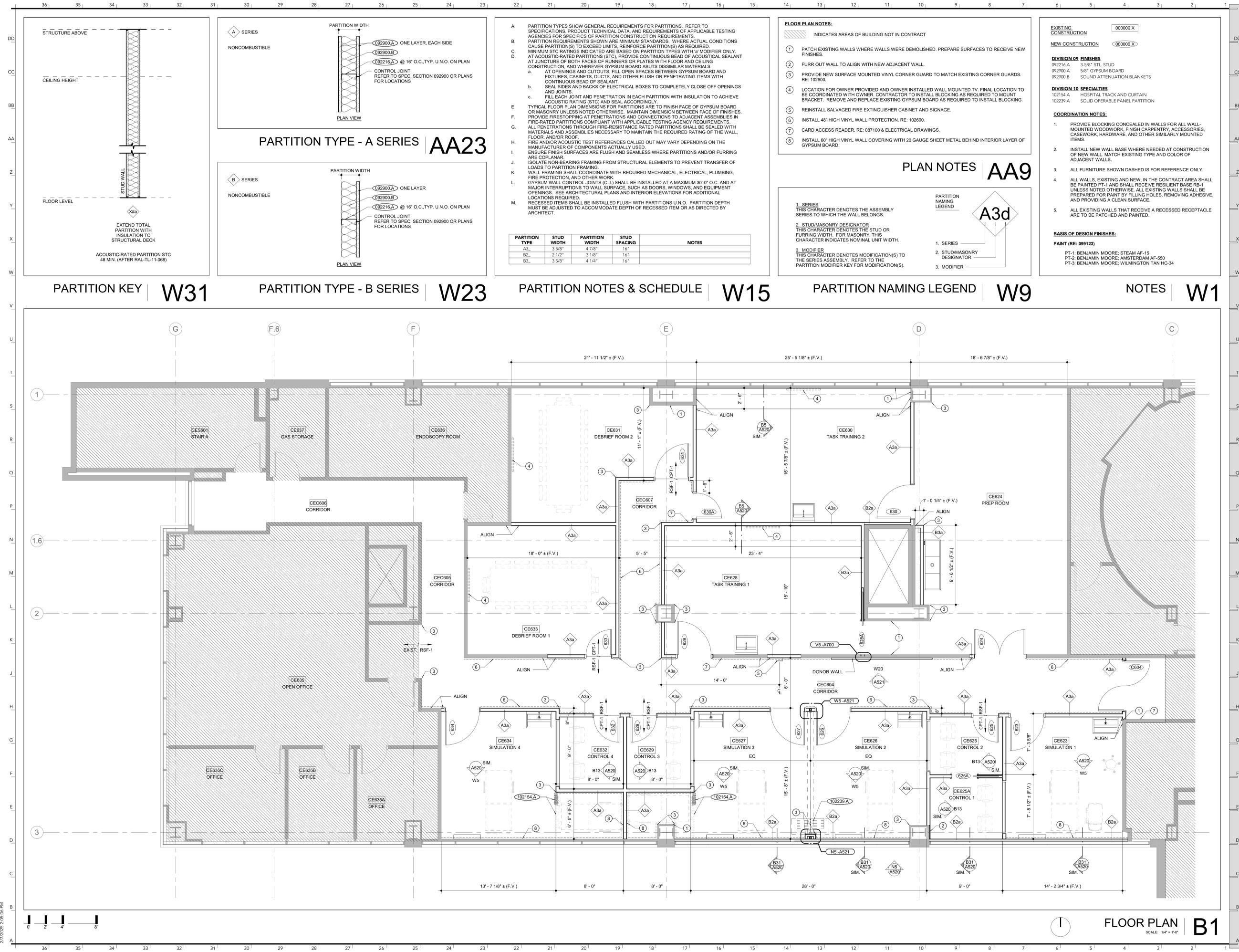


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FLOOR PLAN

A100



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 'M' MODIFIER ONLY. AT ACOUSTIC-RATED PARTITIONS (STC), 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:  
 a. 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.  
 b. SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.  
 c. FILL EACH JOINT AND PENETRATION IN EACH PARTITION WITH INSULATION TO ACHIEVE ACOUSTIC RATING (STC) AND SEAL ACCORDINGLY.  
 E. 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.  
 F. 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.  
 G. FIRE AND/OR ACOUSTIC TEST REFERENCES CALLED OUT MAY VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.  
 H. ENSURE FINISH SURFACES ARE FLUSH AND SEAMLESS WHERE PARTITIONS AND/OR FURRING ARE COPLANAR.  
 J. ISOLATE NON-BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT TRANSFER OF LOADS TO PARTITION FRAMING.  
 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" 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.

PARTITION TYPE	STUD WIDTH	PARTITION WIDTH	STUD SPACING	NOTES
A3	3 5/8"	4 7/8"	16"	
B2	2 1/2"	3 1/8"	16"	
B3	3 5/8"	4 1/4"	16"	

**FLOOR PLAN NOTES:**

INDICATES AREAS OF BUILDING NOT IN CONTRACT

- PATCH EXISTING WALLS WHERE WALLS WERE DEMOLISHED. PREPARE SURFACES TO RECEIVE NEW FINISHES.
- FURR OUT WALL TO ALIGN WITH NEW ADJACENT WALL.
- PROVIDE NEW SURFACE MOUNTED VINYL CORNER GUARD TO MATCH EXISTING CORNER GUARDS. RE: 102600.
- LOCATION FOR OWNER PROVIDED AND OWNER INSTALLED WALL MOUNTED TV. FINAL LOCATION TO BE COORDINATED WITH OWNER. CONTRACTOR TO INSTALL BLOCKING AS REQUIRED TO MOUNT BRACKET. REMOVE AND REPLACE EXISTING GYPSUM BOARD AS REQUIRED TO INSTALL BLOCKING.
- REINSTALL SALVAGED FIRE EXTINGUISHER CABINET AND SIGNAGE.
- INSTALL 48" HIGH VINYL WALL PROTECTION, RE: 102600.
- CARD ACCESS READER, RE: 087100 & ELECTRICAL DRAWINGS.
- INSTALL 60" HIGH VINYL WALL COVERING WITH 20 GAUGE SHEET METAL BEHIND INTERIOR LAYER OF GYPSUM BOARD.

**PLAN NOTES | AA9**

**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 MODIFICATIONS TO THE SERIES ASSEMBLY. REFER TO THE PARTITION MODIFIER KEY FOR MODIFICATION(S).

**PARTITION NAMING LEGEND**

A3d

- SERIES
- STUD/MASONRY DESIGNATOR
- MODIFIER

**EXISTING CONSTRUCTION** 000000.X

**NEW CONSTRUCTION** 000000.X

**DIVISION 09 SPECIALTIES**

092216.A 3-5/8" STL STUD  
 092900.A 5/8" GYPSUM BOARD  
 092900.B SOUND ATTENUATION BLANKETS

**DIVISION 10 SPECIALTIES**

102154.A HOSPITAL TRACK AND CURTAIN  
 102239.A SOLID OPERABLE PANEL PARTITION

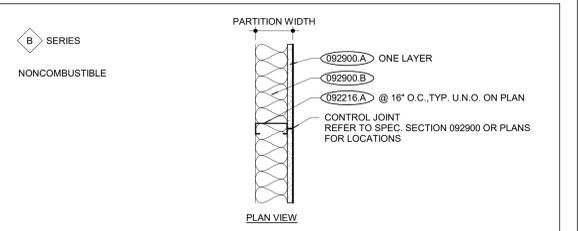
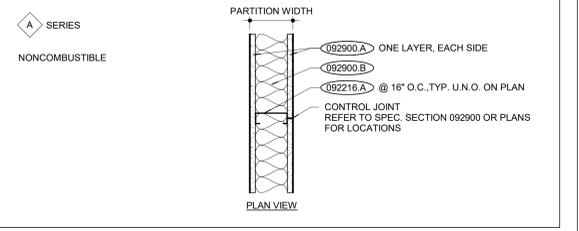
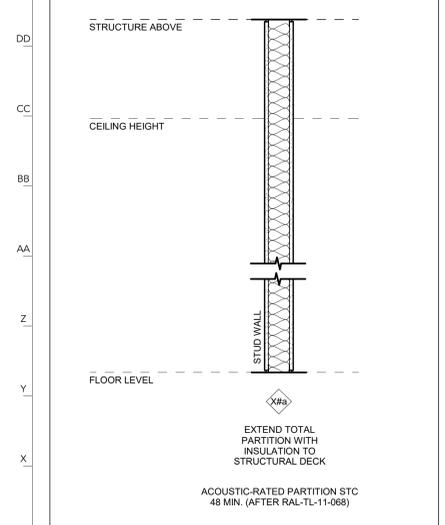
**COORDINATION NOTES:**

- 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.
- ALL EXISTING WALLS THAT RECEIVE A RECESSED RECEPTACLE ARE TO BE PATCHED AND PAINTED.

**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



PARTITION KEY | W31

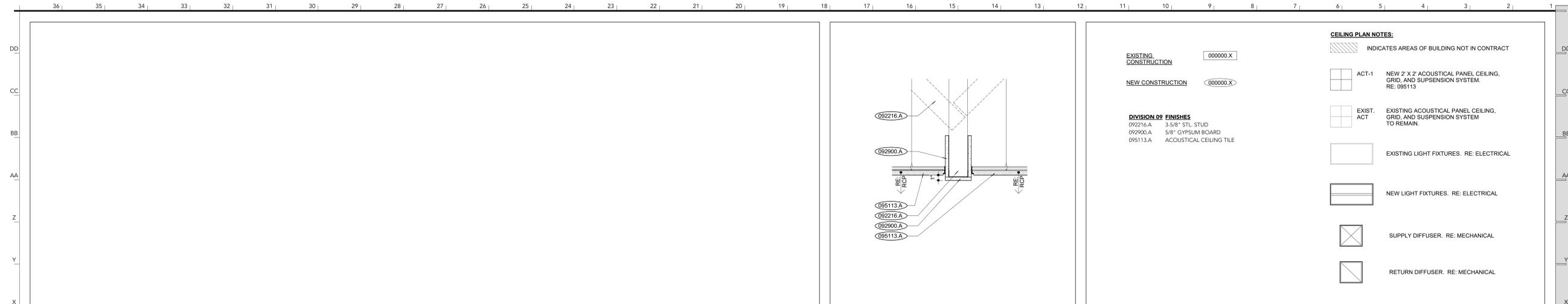
PARTITION TYPE - B SERIES | W23

PARTITION NOTES & SCHEDULE | W15

PARTITION NAMING LEGEND | W9

NOTES | W1

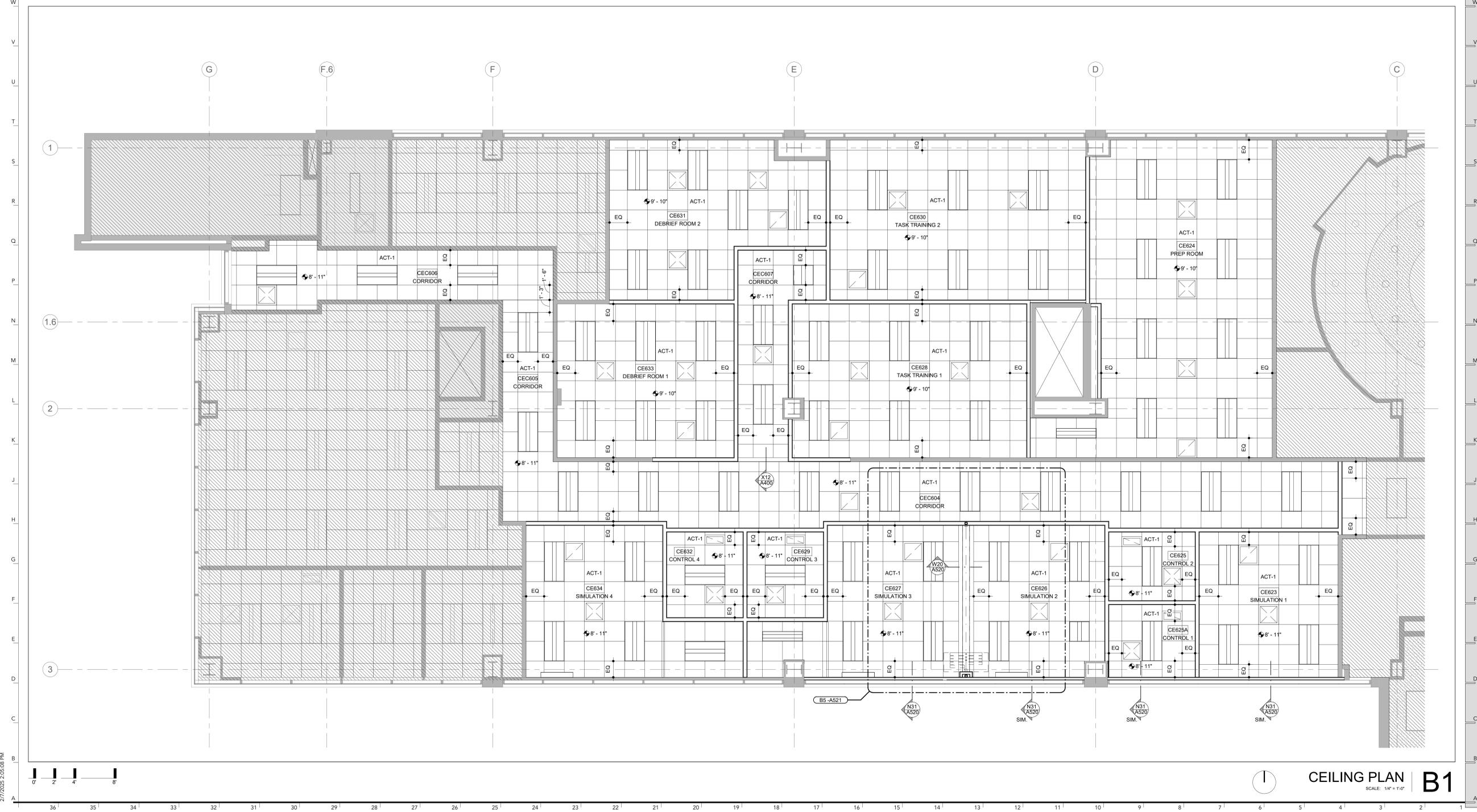




NOT USED | X18

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

RCP NOTES | X1



CEILING PLAN | B1  
SCALE: 1/4" = 1'-0"

**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.  
 1400 BALTIMORE, SUITE 300  
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 PH: 816.842.8437

**STRUCTURAL CONSULTANT**  
 CROCKETT ENGINEERING CONSULTANTS  
 1000 W. NIFONG BOULEVARD, BUILDING 1  
 COLUMBIA, MO 65203  
 PH: 373.447.0292



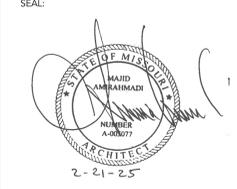
FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

**CLINICAL SUPPORT & EDUCATION - SIM CENTER TRAINING SPACE RENOVATION, PHASE II**

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CEILING PLAN

A400

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CLINICAL  
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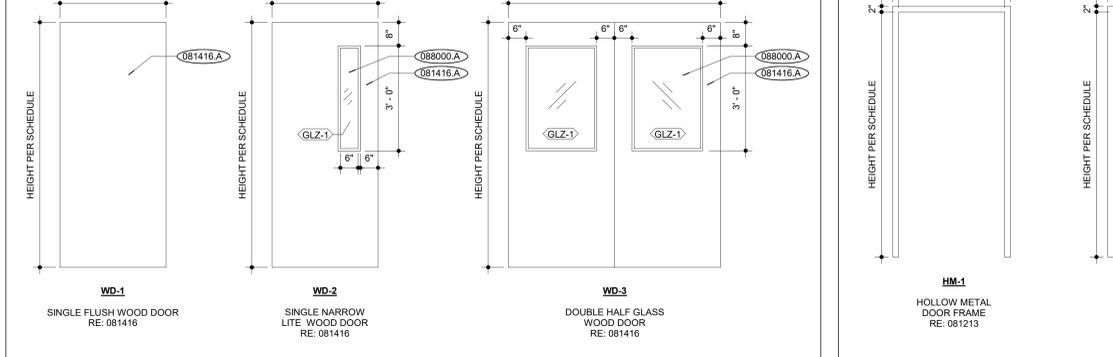
DOOR SCHEDULE &  
 FINISH SCHEDULE

A700

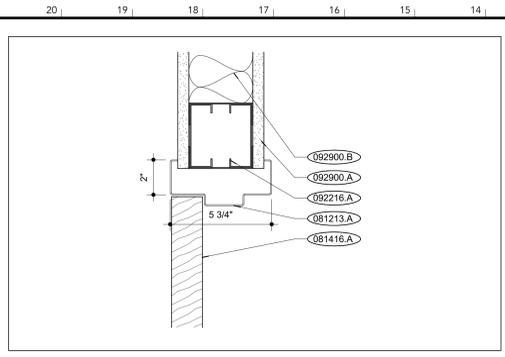
DOOR SCHEDULE																
DOOR	SIZE				# LEAVES	DOOR TYPE	DOOR FINISH	FRAME FINISH			GLAZING TYPE	FIRE RATINGS	HARDWARE	DETAIL DRAWINGS		
	HEIGHT	THICKNESS	WIDTH	DEPTH				FRAME TYPE	FRAME FINISH	GLAZING TYPE				HEAD	JAMB	THRESHOLD
623	7'-0"	0'-1 3/4"	4'-0"	1	WD-1	ST-1	HM-1	PT-4	-	-	5	Z14/A700	V11/A700	-	1	
624	7'-0"	0'-1 3/4"	6'-0"	2	WD-1	ST-1	HM-1	PT-4	-	-	7	Z14/A700	V11/A700	-	1	
625	7'-0"	0'-1 3/4"	3'-0"	1	WD-1	ST-1	HM-1	PT-4	-	-	5	Z14/A700	V11/A700	-	1	
625A	7'-0"	0'-1 3/8"	3'-0"	1	WD-1	ST-1	HM-3	PT-4	-	-	4	Z5/A700	NS/A700	V16/A700	2	
626	7'-0"	0'-1 3/4"	4'-0"	1	WD-1	ST-1	HM-1	PT-4	-	-	6	Z14/A700	V11/A700	-	1	
627	7'-0"	0'-1 3/4"	4'-0"	1	WD-1	ST-1	HM-1	PT-4	-	-	6	Z14/A700	V11/A700	-	1, 2	
628	7'-0"	0'-1 3/4"	4'-0"	1	WD-2	ST-1	HM-1	PT-4	GLZ-1	-	2	Z14/A700	V11/A700	-	1	
628A	7'-0"	0'-1 3/8"	4'-0"	1	WD-1	ST-1	HM-3	PT-4	-	-	4	Z5/A700 SIM	NS/A700 SIM	-	2	
629	7'-0"	0'-1 3/4"	3'-0"	1	WD-1	ST-1	HM-1	PT-4	-	-	5	Z14/A700	V11/A700	V16/A700	2	
630	7'-0"	0'-1 3/4"	4'-0"	1	WD-1	ST-1	HM-1	PT-4	-	-	8	Z14/A700	V11/A700	-	1	
630A	7'-0"	0'-1 3/4"	3'-0"	1	WD-2	ST-1	HM-1	PT-4	GLZ-1	-	3	Z14/A700	V11/A700	V16/A700	1	
631	7'-0"	0'-1 3/4"	4'-0"	1	WD-2	ST-1	HM-1	PT-4	GLZ-1	-	5	Z14/A700	V11/A700	V16/A700	2	
632	7'-0"	0'-1 3/4"	3'-0"	1	WD-1	ST-1	HM-1	PT-4	-	-	5	Z14/A700	V11/A700	-	1	
633	7'-0"	0'-1 3/4"	3'-0"	1	WD-2	ST-1	HM-1	PT-4	GLZ-1	-	5	Z14/A700	V11/A700	V16/A700	2	
634	7'-0"	0'-1 3/4"	4'-0"	1	WD-1	ST-1	HM-1	PT-4	-	-	5	Z14/A700	V11/A700	-	1	
C604	7'-0"	0'-1 3/4"	6'-0"	2	WD-3	ST-1	HM-2	PT-4	GLZ-1	-	1	Z14/A700 SIM	V11/A700 SIM	-	1	

DOOR MATERIAL	FRAME MATERIAL	DOOR COMMENTS
WD SOLID-CORE WOOD DOOR, RE: 081416	HM HOLLOW METAL FRAME, RE: 081113	1 INSTALL FRAME PROTECTION, RE: 102600
		2 REINSTALL SALVAGED WOOD DOOR AT NEW LOCATION SHOWN ON PLAN.

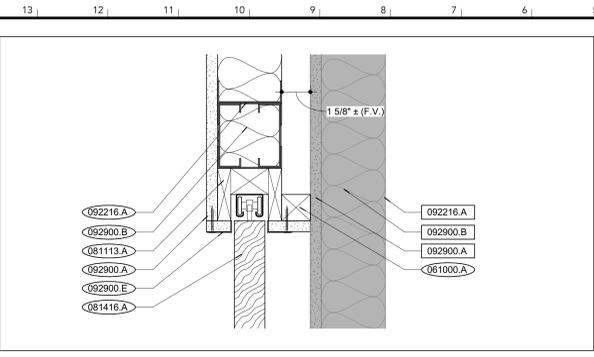
GLAZING TYPES	DOOR / FRAME FINISH
GLZ-1 1/4" FULLY TEMPERED, RE: 088000	PT PAINT, RE: 099123
	ST STAIN TO MATCH EXISTING DOORS



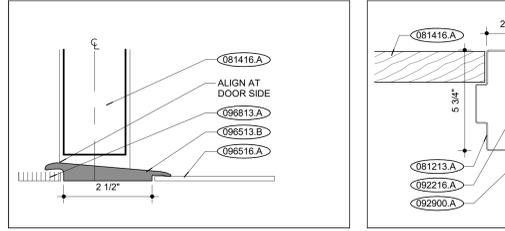
DOOR TYPES | N25



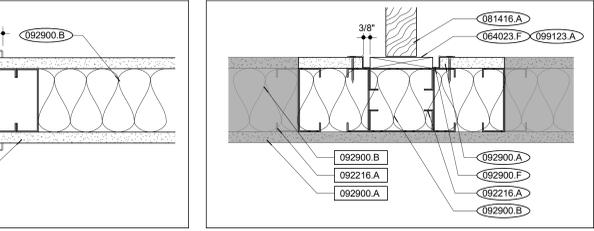
HM HEAD DETAIL | Z14



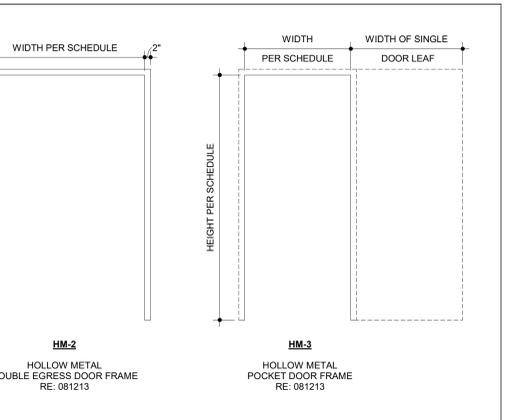
POCKET DOOR HEAD DETAIL | Z5



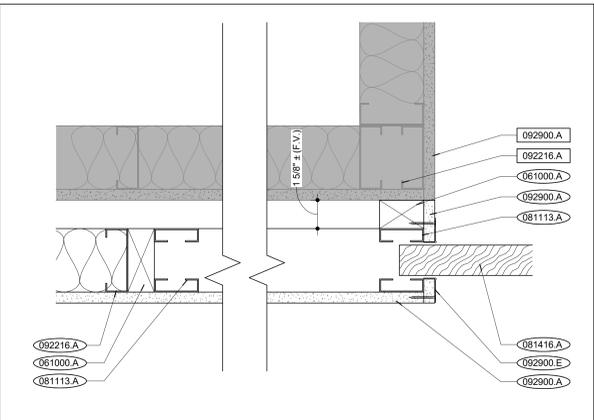
HM JAMB DETAIL | V11



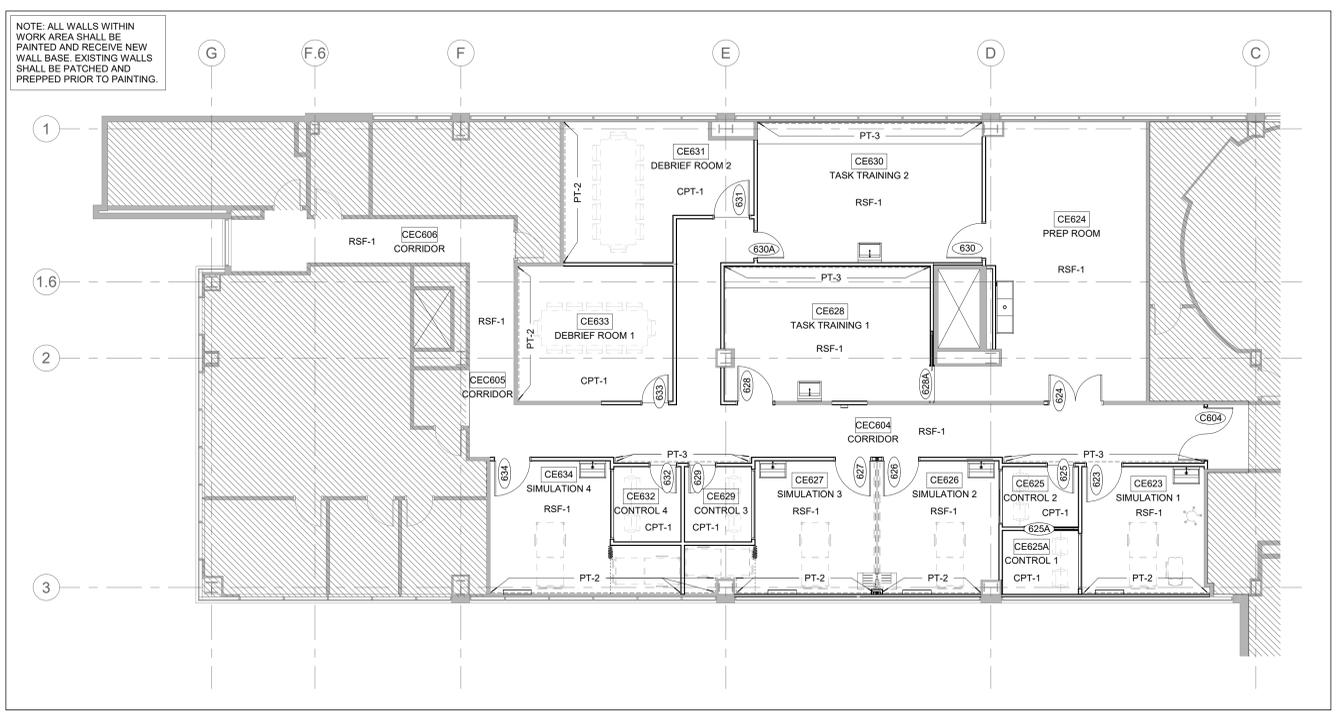
CLOSURE DETAIL | V5



DOOR FRAME TYPES | N14



POCKET DOOR JAMB DETAIL | N5



FINISH PLAN | B18

ROOM NO.	NAME	FLOOR FINISH	BASE FINISH	WALLS				CEILING FINISH	COMMENTS
				NORTH	EAST	SOUTH	WEST		
CE623	SIMULATION 1	RSF-1	RB	PT-1	PT-1	PT-2	PT-1	ACT-1	
CE624	PREP ROOM	RSF-1	RB	PT-1	PT-1	PT-1	PT-1	ACT-1	
CE625	CONTROL 2	CPT-1	RB	PT-1	PT-1	PT-1	PT-1	ACT-1	
CE626	SIMULATION 2	RSF-1	RB	PT-1	PT-1	PT-2	PT-1	ACT-1	
CE627	SIMULATION 3	RSF-1	RB	PT-1	PT-1	PT-1	PT-1	ACT-1	
CE628	TASK TRAINING 1	RSF-1	RB	PT-3	PT-1	PT-1	PT-1	ACT-1	
CE629	CONTROL 3	CPT-1	RB	PT-1	PT-1	PT-1	PT-1	ACT-1	
CE630	TASK TRAINING 2	RSF-1	RB	PT-3	PT-1	PT-1	PT-1	ACT-1	
CE631	DEBRIEF ROOM 2	CPT-1	RB	PT-1	PT-1	PT-1	PT-2	ACT-1	
CE632	CONTROL 4	CPT-1	RB	PT-1	PT-1	PT-1	PT-1	ACT-1	
CE633	DEBRIEF ROOM 1	CPT-1	RB	PT-1	PT-1	PT-1	PT-2	ACT-1	
CE634	SIMULATION 4	RSF-1	RB	PT-1	PT-2	PT-1	PT-1	ACT-1	
CE604	CORRIDOR	RSF-1	RB	PT-1	PT-1	PT-3/PT-1	PT-1	ACT-1	
CE605	CORRIDOR	RSF-1	RB	PT-1	PT-1	PT-1	PT-1	ACT-1	
CE606	CORRIDOR	RSF-1	RB	PT-1	PT-1	PT-1	PT-1	ACT-1	

ROOM FINISH SCHEDULE | B5

2/7/2025 2:05:15 PM

DIVISION	ITEM	DESCRIPTION
EXISTING CONSTRUCTION	000000.X	EXISTING CONSTRUCTION
NEW CONSTRUCTION	000000.X	NEW CONSTRUCTION
DIVISION 03	CONCRETE	
DIVISION 04	MASONRY	
DIVISION 05	METALS	
DIVISION 06	WOOD, PLASTICS + COMPOSITES	061000.A WOOD BLOCKING 064023.F WOOD TRIM
DIVISION 07	THERMAL + MOISTURE PROTECTION	
DIVISION 08	OPENINGS	081113.A POCKET DOOR FRAME 081213.A HOLLOW METAL FRAME 081416.A WOOD DOOR 088000.A 1/4" CLEAR TEMPERED GLAZING <GLZ-1>
DIVISION 09	FINISHES	092216.A 3/8" STL STUD 092900.A 5/8" GYPSUM BOARD 092900.B SOUND ATTENUATION BLANKETS 092900.E L-TRIM 092900.F 2-REVEAL TRIM 096513.B FLOOR TRANSITION STRIP 096516.A RESILIENT SHEET FLOORING 096813.A CARPET TILE 099123.A PAINT
DIVISION 10	SPECIALTIES	
DIVISION 11	EQUIPMENT	
DIVISION 12	FURNISHINGS	
DIVISION 14	CONVEYING EQUIPMENT	
DIVISION 22	PLUMBING	
DIVISION 23	HVAC	
DIVISION 26	ELECTRICAL	
DIVISION 31	EARTHWORK	
DIVISION 32	EXTERIOR IMPROVEMENTS	

KEYNOTES | B1



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FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

# CLINICAL SUPPORT & EDUCATION - SIM CENTER TRAINING SPACE RENOVATION PHASE II

## ISSUED FOR BID

5 HOSPITAL DR.  
COLUMBIA, MO 65201

DATE: 02/21/2025

PROJ. NO.: CP29271

DESIGNED BY: CSB

DRAWN BY: CSB

CHECKED BY: SGB

APPROVED BY: SGB

SEAL:



02-21-2025

PHILLIP I. PARRA - ENGINEER

MO# E-28366

The Professional Engineer's seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments, or other documents not exhibiting this seal shall not be considered prepared by this engineer, and this engineer expressly disclaims any and all responsibility for such plans, drawings, or documents not exhibiting this seal.

NO. REVISION SUBMISSION DATE

0 ISSUED FOR BID 02/21/2025

## MECHANICAL COVERSHEET

# M000

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### FIRE PROTECTION GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
- CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'x2' CEILING TILES CENTERING USING A 2'x2' CEILING PATTERN IS ACCEPTABLE. SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING, DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.
- NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
- PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE.
- PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILING, REFER TO ARCHITECTURAL PLANS.
- FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
- THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED TO MEET OWNER'S INSURANCE COMPANY STANDARDS WHERE APPLICABLE, THE MORE STRINGENT OF THE OWNER'S INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE USED.
- ALL BUILDING AREA SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS, OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM.
- EACH ASSEMBLY SHALL INCLUDE BUTTERFLY CONTROL VALVE INDICATING "OPEN" OR "CLOSED" POSITION, TEST INSPECTION VALVE, FLOW SWITCH AND PRESSURE GAUGES.
- WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES.
- INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND THREADED HOSE CONNECTION.
- MAIN PIPING PASSING BELOW SKYLIGHTS OR CLOSETORIES ARE NOT PERMITTED.
- IF LOW STRUCTURAL CLEARANCES PREVENT PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS, ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH THE STRUCTURAL ENGINEER.
- PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY NFPA 13 UNLESS OTHERWISE NOTED.
- FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
- PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT.
- THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER SYSTEM.
- THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
- DRAWING SHOW LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGNOSTIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR SHALL VERIFY DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILING, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILING COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE RULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHGEAR, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
- MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL SPACE INCLUDING DUCTWORK, PIPING, ETC. ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING DUCTWORK, PIPING, ETC.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

### 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.
- 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.
  - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
  - FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISERS AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
  - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
  - 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.
  - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK. ALL CONTRACTORS, NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
  - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
  - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
  - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
  - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR THE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE TAKEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
  - 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.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGNOSTIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
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  - IN AREAS WITH DRYWALL CEILING COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
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  - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
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  - DO NOT BLOCK TUBE RULL OR EQUIPMENT SERVICE CLEARANCES.
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  - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL SPACE INCLUDING DUCTWORK, PIPING, ETC. ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING DUCTWORK, PIPING, ETC.
  - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
  - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

### 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, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
- EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALVES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
- 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.

### PIPING GENERAL NOTES:

- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
- INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

### MEDICAL GAS GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
- INSTALL WALL MOUNTED OUTLETS 60" AFF UNLESS NOTED OTHERWISE. COORDINATE ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- REFER TO MEDICAL GAS MATERIAL LIST FOR PIPE SIZES TO INDIVIDUAL OUTLETS.
- MEDICAL GAS SYSTEM IS TO BE CERTIFIED UNDER THE CONTRACTOR'S SCOPE OF WORK.

### MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CA	COMPRESSED AIR
CO2	CARBON DIOXIDE
CW	COLD WATER - POTABLE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DRN - MEDICAL GAS	
HW	HOT WATER - POTABLE
HWC	HOT WATER CIRCULATING - POTABLE
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
MA	MEDICAL AIR
MV	MEDICAL VACUUM
N	NITROGEN
NO	NITROUS OXIDE
O	OXYGEN
SAN	SANITARY DRAINAGE
ST(1,000)	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
STS	STORM DRAINAGE (SECONDARY)
VENT	VENT
VAC	LAB VACUUM
WAGD	WASTE ANESTHESIA GAS DISPOSAL
PIPE CAP	
PIPE DOWN	
PIPE UP OR UP/DOWN	
PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)	
PITCH PIPE IN DIRECTION	
DIRECTION OF FLOW IN PIPE	
ROUTE TO DRAIN	
DIELECTRIC CONNECTION	
UNION/FLANGE	
SHUTOFF VALVE NORMALLY OPEN	
SHUTOFF VALVE NORMALLY CLOSED	
THROTTLING VALVE	
BALANCING VALVE (NUMBER INDICATES GPM)	
AUTOMATIC BALANCING VALVE	
MIXING VALVE	
CONTROL VALVE (THREE-WAY)	
CONTROL VALVE (TWO-WAY)	
SOLENOID VALVE	
CHECK VALVE	
VACUUM BREAKER	
*WYE* - STRAINER	
*WYE* - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP	
AUTOMATIC DRAIN VALVE	
ANGLE VALVE	
FLEXIBLE CONNECTION	
PRESSURE/TEMPERATURE TEST PLUG	
REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB	
MANUAL AIR VENT	
DRAIN VALVE WITH HOSE CONNECTION AND CAP	
AIR ADMITTANCE VALVE	
VALVE BOX	
MEDICAL GAS OUTLET (MGO)	
ALARM PANEL	
HEADWALL	
NO HATCH	
ORDINARY GROUP 1	
ORDINARY GROUP 2	
DEMOLITION	
EXTRA GROUP 1	
EXTRA GROUP 2	
DIRECTION OF AIR FLOW	
FLEXIBLE DUCT	
MANUAL VOLUME DAMPER	
RISE IN DIRECTION OF AIR FLOW	
DROP IN DIRECTION OF AIR FLOW	
DUCT CAP	
DUCT DOWN	
DUCT UP	
SUPPLY/OUTSIDE AIR DUCT SECTION	
RETURN AIR DUCT SECTION	
EXHAUST/RELIEF AIR DUCT SECTION	
4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION	
AIR TERMINAL PROPERTIES SYMBOL	
TERMINAL AIR BOX (REFER TO SCHEDULE)	
TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)	

### MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
OPPOSED BLADE DAMPER (REFER TO SCHEDULE)	
PARALLEL BLADE DAMPER (REFER TO SCHEDULE)	
ACTUATOR	
DOOR SWITCH	
DIFFERENTIAL PRESSURE SWITCH	
CURRENT SWITCH	
VIBRATION SWITCH	
FLOW METER	
FAN	
MOTOR	
PUMP	
NORMALLY CLOSED CONTACT	
NORMALLY OPEN CONTACT	
ANALOG INPUT	
ANALOG OUTPUT	
DIGITAL INPUT	
DIGITAL OUTPUT	
THERMOSTAT	
TEMPERATURE SENSOR WITH WELL	
THERMOMETER WITH WELL (DIAL TYPE)	
THERMOMETER WITH WELL (FILLED TYPE)	
AVERAGING TEMPERATURE SENSOR	
FILTER	
HEATING/ COOLING COIL	

### MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
DN	DOWN
E	EXISTING
EW	ELECTRIC WATER COOLER
FC	FLOOR CLEANOUT
FD	FIRE DAMPER
FMS	FACILITY MANAGEMENT AND CONTROL SYSTEM
FS	FIRE/SMOKE DAMPER
L or LAV	LAVATORY
MB	MOP BASIN
MV	MIXING VALVE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
SK	SINK
SS	SERVICE SINK
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TY	TYPICAL
UON	UNLESS OTHERWISE NOTED
WC	WATER CLOSET
WCO	WALL CLEANOUT

### DUCT ABBREVIATION KEY

ABBR.	DESCRIPTION
RA	RETURN/RELIEF AIR
SA	SUPPLY AIR

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

### VIEW KEY

NAME: 10'-0" LEVEL NAME: HEIGHT ABOVE PROJECT 0'-0"

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

--- TO BE REMOVED (SHORT DASHED PATTERN)

--- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

--- EXISTING

--- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

--- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

### CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

### PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)

1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE

2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINIMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALLS SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	TRAP	COLD WATER	HOT WATER	SANITARY	VENT
SK-1	SERVICE SINK	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"
SK-2	SERVICE SINK	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"
SK-3	SINK	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"

### PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
SK-1	SINK - SINGLE COMPARTMENT, 14 GAUGE STAINLESS STEEL, 27" (SIDE-TO-SIDE) x 27-1/2" (FRONT-TO-BACK) OVERALL SIZE. BOWL DIMENSIONS 24" x 36" x 14" DEEP, 8" BACKSPASH WITH SLOPING TOP, 3/4" DIA. DRAIN OUTLET, 24" LONG DRAIN BOARDS EACH SIDE. 14 GAUGE STAINLESS STEEL TUBULAR LEGS WITH ADJUSTABLE BULLET SHAPED FEET, NSF COMPLIANT.	SINK - ELKAY (WNSF), JUST (NSFB), FRANK COMMERCIAL (WTL), SINK TRIM - CHICAGO FAUCET (W4W-GN2AE35-317AB)
SK-2	SCRUB SINK - ONE USER STATION, WALL MOUNTED, HEAVY GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS WELDED CONSTRUCTION WITH SATIN FINISH, SOUND DEADENED SLANTED BOWL WITH SLOPED BOTTOM AND BACKSLASH, FRONT ACCESS PANEL, KNEE ACTIVATED SOAP DECK MOUNTED KNEE ACTIVATED GOOSENECK FAUCET WITH 2.0 GPM ROSE SPRAY OUTLET.	WHITEHALL (4101), JUST (JKS-770-1), SLOAN (ESS-3100), STERIS (AMSCO FLEXMATIC)
SK-3	SCRUB SINK - ADA COMPACT ONE USER STATION, WALL MOUNTED, HEAVY GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS WELDED CONSTRUCTION WITH SATIN FINISH, SOUND DEADENED SLANTED BOWL WITH SLOPED BOTTOM AND BACKSLASH, FRONT ACCESS PANEL, DECK MOUNTED SENSOR ACTIVATED GOOSENECK FAUCET.	SINK - WHITEHALL (4121ADA), ELKAY (EWSFAD), WILLOUGHBY (WSSS-ADA)

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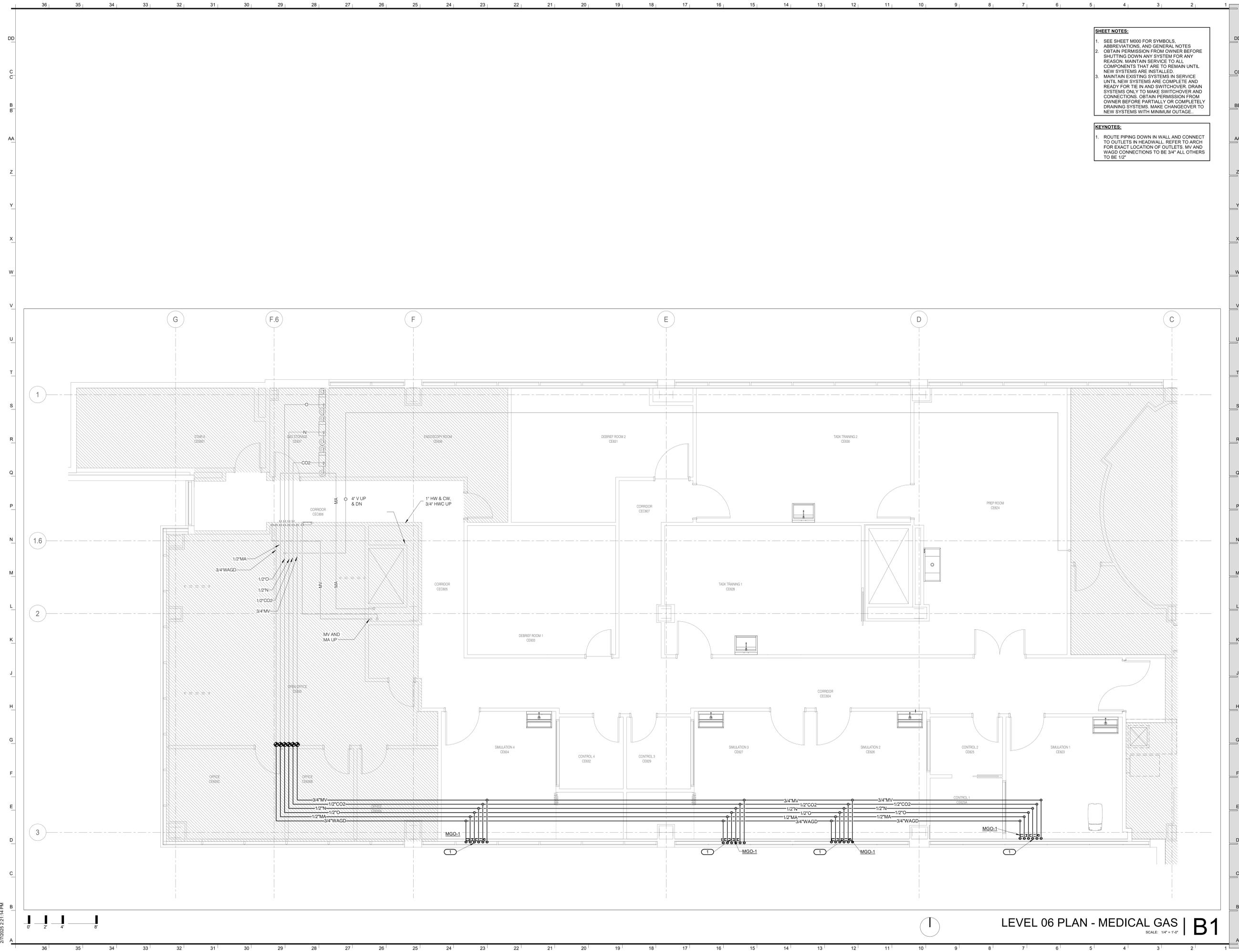












**SHEET NOTES:**

- SEE SHEET M000 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW SYSTEMS ARE COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEMS ONLY TO MAKE SWITCHOVER AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEMS. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE..

**KEYNOTES:**

- ROUTE PIPING DOWN IN WALL AND CONNECT TO OUTLETS IN HEADWALL. REFER TO ARCH FOR EXACT LOCATION OF OUTLETS. MV AND WAGD CONNECTIONS TO BE 3/4" ALL OTHERS TO BE 1/2"

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**ISSUED FOR BID**

5 HOSPITAL DR.  
 COLUMBIA, MO 65201

DATE: 02/21/2025  
 PROJ. NO.: CP250271  
 DESIGNED BY: CSB  
 DRAWN BY: CSB  
 CHECKED BY: SGB  
 APPROVED BY: SGB

SEAL:

PHILLIP I. PARRA - ENGINEER  
 MO# E-28366

02-21-2025

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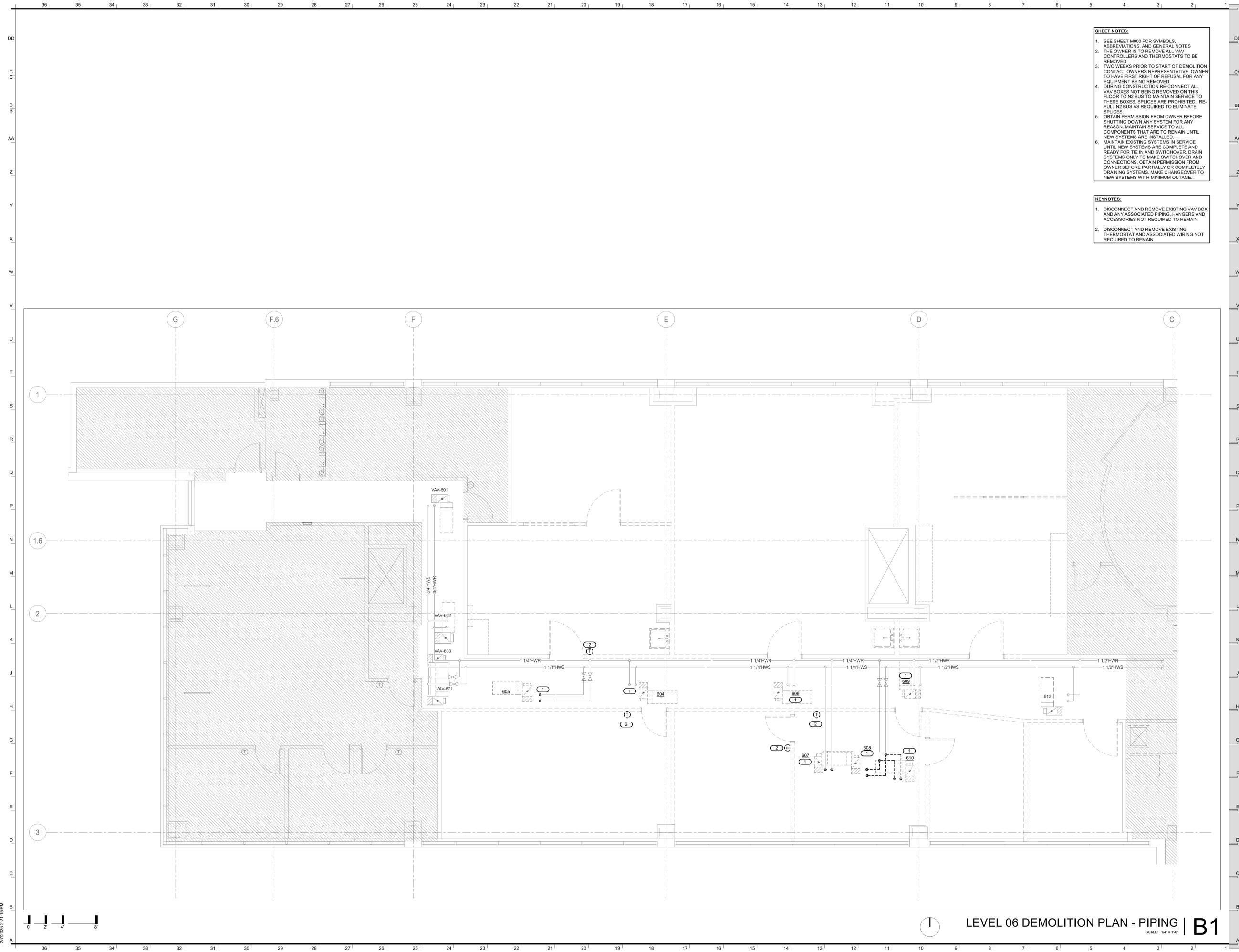
**LEVEL 06 PLAN - MEDICAL GAS**

**P216**

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LEVEL 06 PLAN - MEDICAL GAS | B1  
 SCALE: 1/4" = 1'-0"



- SHEET NOTES:**
- SEE SHEET M000 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
  - THE OWNER IS TO REMOVE ALL VAV CONTROLLERS AND THERMOSTATS TO BE REMOVED
  - TWO WEEKS 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. SPLICES ARE PROHIBITED. RE-PULL N2 BUS AS REQUIRED TO ELIMINATE SPLICES
  - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
  - MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW SYSTEMS ARE COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEMS ONLY TO MAKE SWITCHOVER AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEMS. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

- KEYNOTES:**
- DISCONNECT AND REMOVE EXISTING VAV BOX AND ANY ASSOCIATED PIPING, HANGERS AND ACCESSORIES NOT REQUIRED TO REMAIN.
  - DISCONNECT AND REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING NOT REQUIRED TO REMAIN.

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DRAWN BY:	CSB
CHECKED BY:	SGB
APPROVED BY:	SGB

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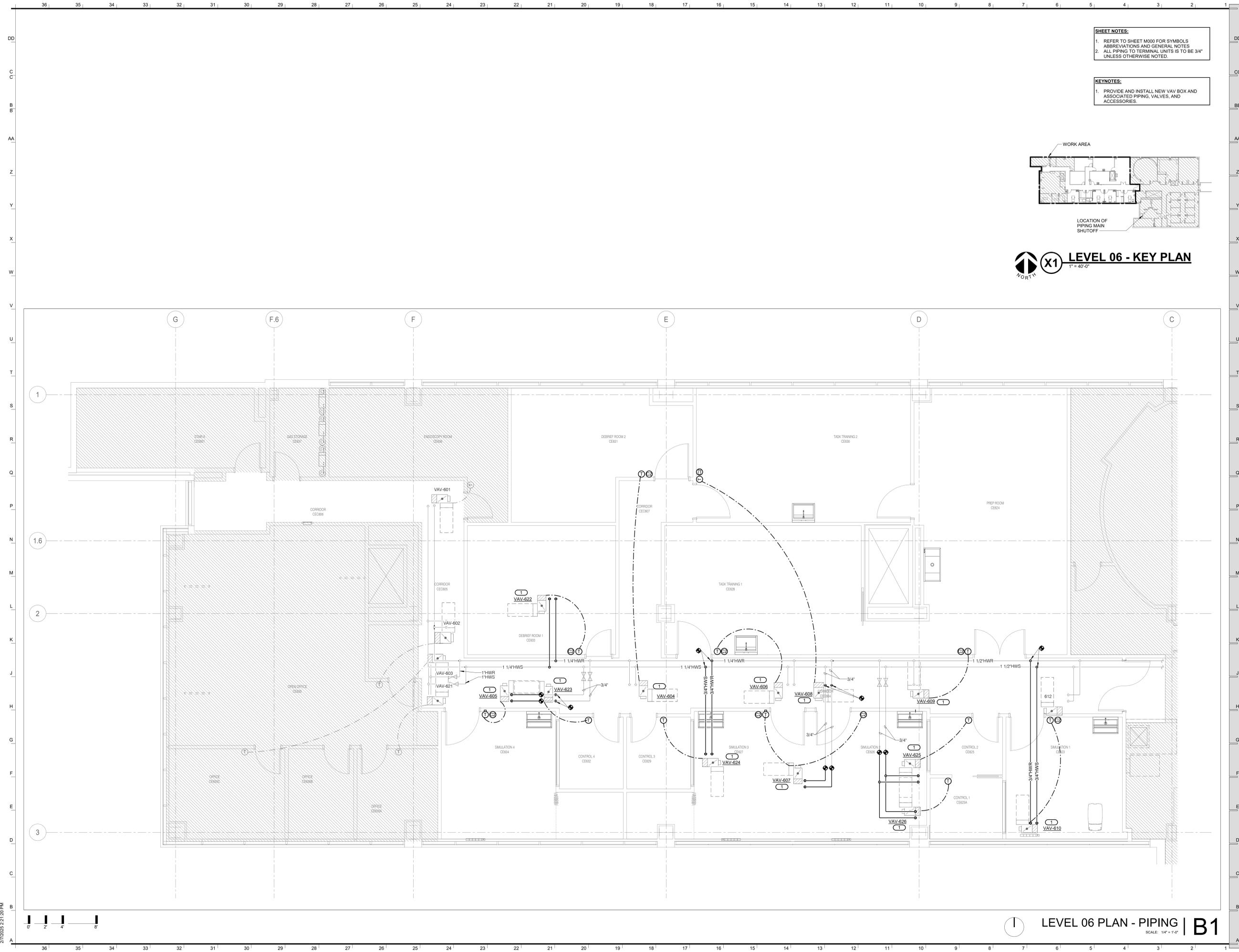
**LEVEL 06 DEMOLITION PLAN - PIPING**

**M106**

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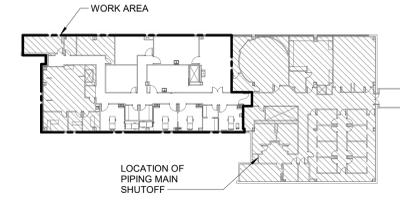
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**SHEET NOTES:**  
 1. REFER TO SHEET M000 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES  
 2. ALL PIPING TO TERMINAL UNITS IS TO BE 3/4" UNLESS OTHERWISE NOTED.

**KEYNOTES:**  
 1. PROVIDE AND INSTALL NEW VAV BOX AND ASSOCIATED PIPING, VALVES, AND ACCESSORIES.



**X1 LEVEL 06 - KEY PLAN**  
 1" = 40'-0"

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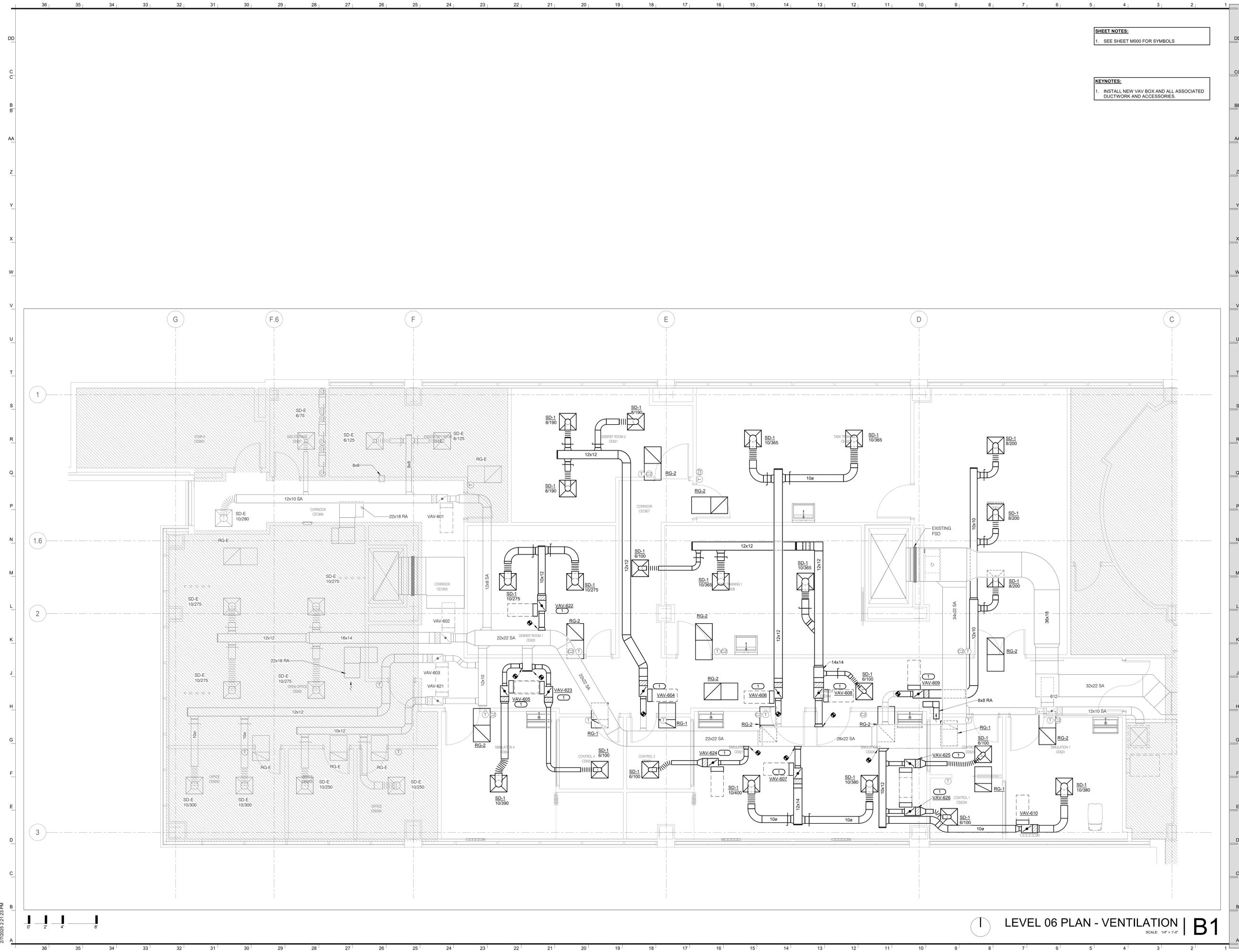
**LEVEL 06 PLAN - PIPING**

**M206**

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**LEVEL 06 PLAN - PIPING | B1**  
 SCALE: 1/4" = 1'-0"



**SHEET NOTES:**  
 1. SEE SHEET M000 FOR SYMBOLS

**KEYNOTES:**  
 1. INSTALL NEW VAV BOX AND ALL ASSOCIATED DUCTWORK AND ACCESSORIES.

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**LEVEL 06 PLAN -  
 VENTILATION**

**M216**

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LEVEL 06 PLAN - VENTILATION | B1  
 SCALE: 1/4" = 1'-0"

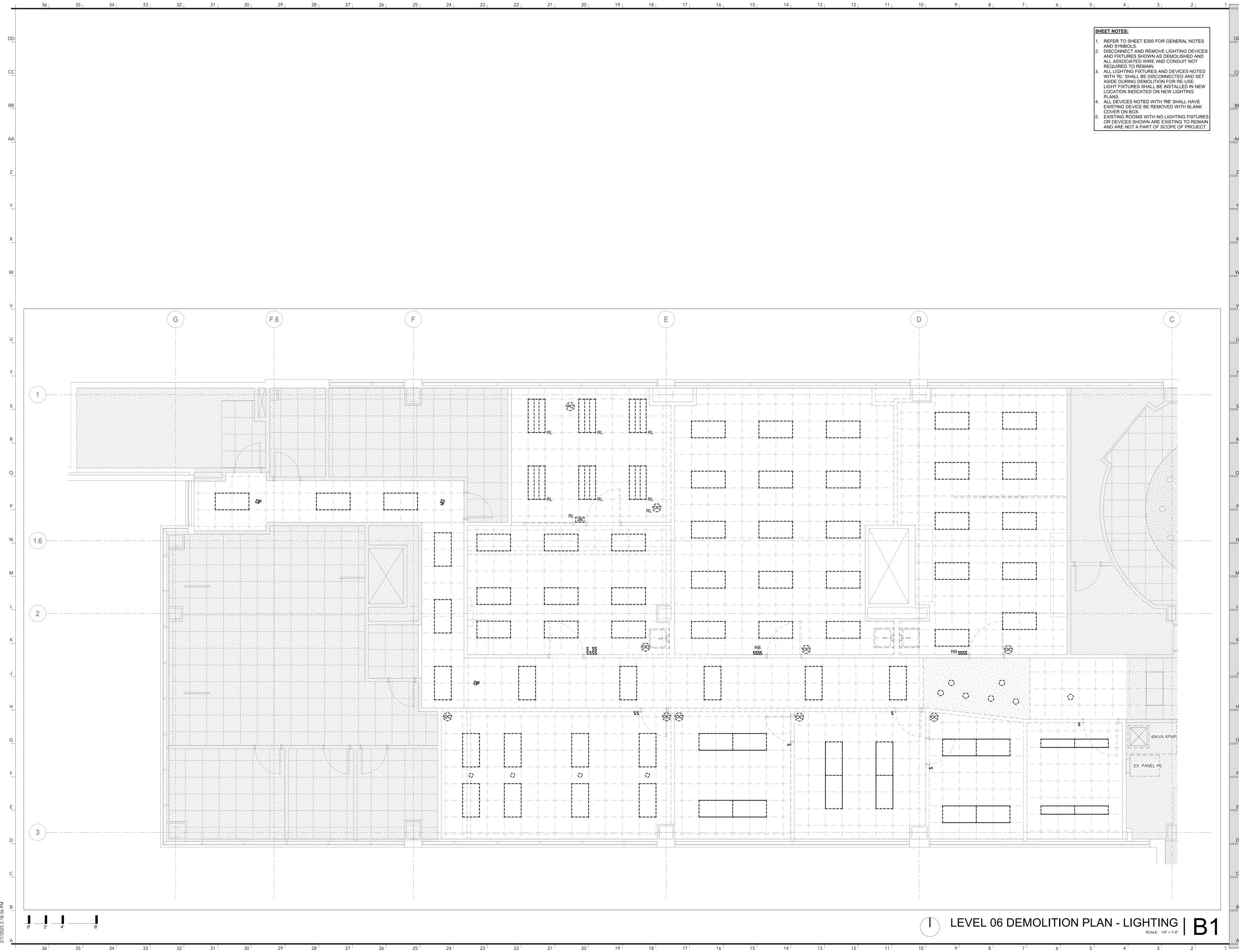
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- SHEET NOTES:**
1. REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
  2. DISCONNECT AND REMOVE LIGHTING DEVICES AND FIXTURES SHOWN AS DEMOLISHED AND ALL ASSOCIATED WIRE AND CONDUIT NOT REQUIRED TO REMAIN.
  3. ALL LIGHTING FIXTURES AND DEVICES NOTED 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. ALL DEVICES NOTED WITH 'RB' SHALL HAVE EXISTING DEVICE BE REMOVED WITH BLANK COVER ON BOX.
  5. EXISTING ROOMS WITH NO LIGHTING FIXTURES OR DEVICES SHOWN ARE EXISTING TO REMAIN AND ARE NOT A PART OF SCOPE OF PROJECT.

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 APPROVED BY: PLR

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**LEVEL 06  
 DEMOLITION PLAN -  
 LIGHTING  
 E106**

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- SHEET NOTES:**
- REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
  - DISCONNECT AND REMOVE POWER, LOW-VOLTAGE AND FIRE ALARM DEVICES SHOWN AS DEMOLISHED AND ALL ASSOCIATED WIRE AND CONDUIT NOT REQUIRED TO REMAIN.
  - ALL DEVICES NOTED WITH 'RL' SHALL BE DISCONNECTED AND SET ASIDE DURING DEMOLITION FOR RE-USE. REFER TO NEW PLANS FOR RELOCATED DEVICE LOCATION.
  - ALL DEVICES NOTED WITH 'RB' SHALL HAVE EXISTING DEVICES BE REMOVED WITH BLANK COVER ON BOX.
  - EXISTING ROOMS WITH NO POWER, LOW-VOLTAGE OR FIRE ALARM DEVICES SHOWN ARE EXISTING TO REMAIN AND ARE NOT A PART OF SCOPE OF PROJECT.

- KEYNOTES:**
- OWNER WILL REMOVE AND SALVAGE EXISTING CAMERA. E.C. SHALL REMOVE ANY REMAINING CABLES AND CONDUIT.

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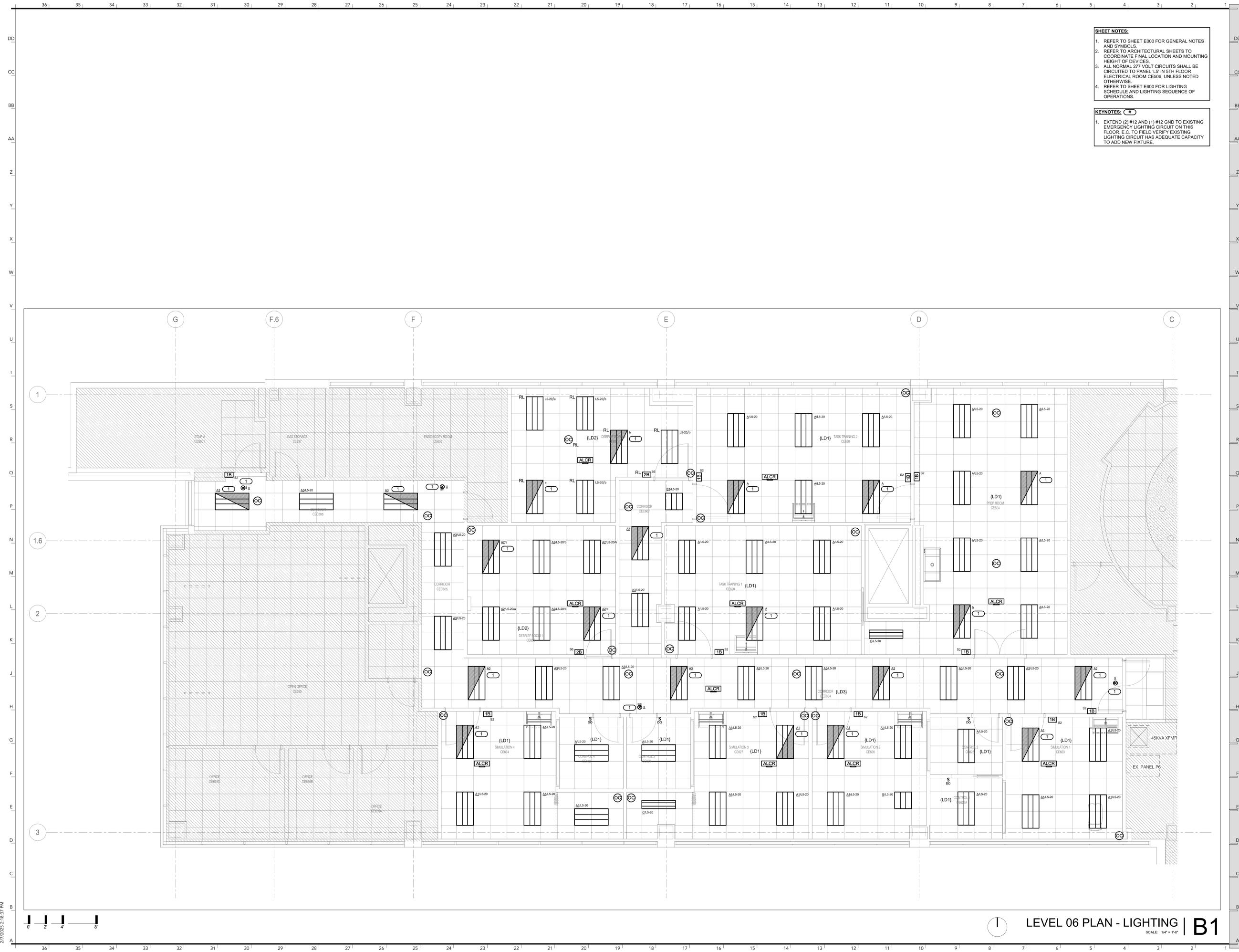
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**LEVEL 06  
 DEMOLITION PLAN -  
 POWER AND  
 SYSTEMS  
 E116**

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**LEVEL 06 DEMOLITION PLAN - POWER | B1**  
 SCALE: 1/4" = 1'-0"



**SHEET NOTES:**

- REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
- REFER TO ARCHITECTURAL SHEETS TO COORDINATE FINAL LOCATION AND MOUNTING HEIGHT OF DEVICES.
- ALL NORMAL 277 VOLT CIRCUITS SHALL BE CIRCUITED TO PANEL L5 IN 5TH FLOOR ELECTRICAL ROOM CE506, UNLESS NOTED OTHERWISE.
- REFER TO SHEET E600 FOR LIGHTING SCHEDULE AND LIGHTING SEQUENCE OF OPERATIONS.

**KEYNOTES:**

- 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.

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LEVEL 06 PLAN - LIGHTING

**E206**

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LEVEL 06 PLAN - LIGHTING | B1  
 SCALE: 1/4" = 1'-0"



- 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.
  - 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.
  - REFER TO SHEET E600 FOR POKE-THROUGH AND PANEL SCHEDULES.

- KEYNOTES: (E)**
- PATIENT HEADWALL LOCATION. PROVIDE HARD-WIRED POWER CONNECT AND LOW-VOLTAGE ROUGH-IN TO HEAD WALL. COORDINATE WORK WITH HEADWALL VENDOR.
  - NEW DEVICE SHALL BE CONNECTED TO EXISTING CIRCUIT.
  - E.C. SHALL PROVIDE HARDWIRED 120-VOLT CONNECTION TO ACCESSIBLE TRANSFORMER UNDER SINK PROVIDED BY P.C. REFER TO M000 FOR PLUMBING MATERIAL LIST FOR MORE INFORMATION.
  - FURNISH AND INSTALL 4-PORT P.O.E. NETWORK BOX ABOVE CEILING FOR SIMULATION ROOM. COORDINATE WITH OWNER'S REPRESENTATIVE FOR EXACT LOCATION.
  - FURNISH AND INSTALL 1-PORT P.O.E. NETWORK BOX ABOVE CEILING JUST OUTSIDE OF ROOM. COORDINATE WITH OWNER'S REPRESENTATIVE FOR EXACT LOCATION.
  - FURNISH AND INSTALL JUNCTION BOX ABOVE CEILING FOR OWNER INSTALLED CAMERA. COORDINATE WITH OWNER'S REPRESENTATIVE FOR EXACT LOCATION.
  - FURNISH AND INSTALL JUNCTION BOX ABOVE CEILING FOR OWNER INSTALLED SPEAKER. COORDINATE WITH OWNER'S REPRESENTATIVE FOR EXACT LOCATION.
  - E.C. SHALL PROVIDE POWER TO DOOR. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MORE INFORMATION.

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 PROJ. NO.: CP250271  
 DESIGNED BY: ZMB  
 DRAWN BY: ZMB  
 CHECKED BY: PLR  
 APPROVED BY: PLR

SEAL:  
  
 PHILLIP I. PARRA - ENGINEER  
 MO#: E-28366

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NO.	REVISION	SUBMISSION	DATE
0	ISSUED FOR BID		02/21/2025

**LEVEL 06 PLAN -  
 POWER AND  
 SYSTEMS  
 E216**

LEVEL 06 PLAN - POWER AND SYSTEMS | B1  
 SCALE: 1/4" = 1'-0"

2/7/2025 2:18:38 PM



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  
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**MEP CONSULTANT**  
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**STRUCTURAL CONSULTANT**  
 CROCKETT ENGINEERING CONSULTANTS  
 1000 W. NIFONG BOULEVARD, BUILDING 1  
 COLUMBIA, MO 65203  
 PH: 373.447.0292



FOR THE CURATORS OF  
 THE UNIVERSITY OF MISSOURI

**CLINICAL  
 SUPPORT &  
 EDUCATION -  
 SIM CENTER  
 TRAINING  
 SPACE  
 RENOVATION  
 PHASE II**

ISSUED FOR BID

5 HOSPITAL DR.  
 COLUMBIA, MO 65201

DATE: 02/21/2025  
 PROJ. NO.: CP250271  
 DESIGNED BY: ZMB  
 DRAWN BY: ZMB  
 CHECKED BY: PLR  
 APPROVED BY: PLR

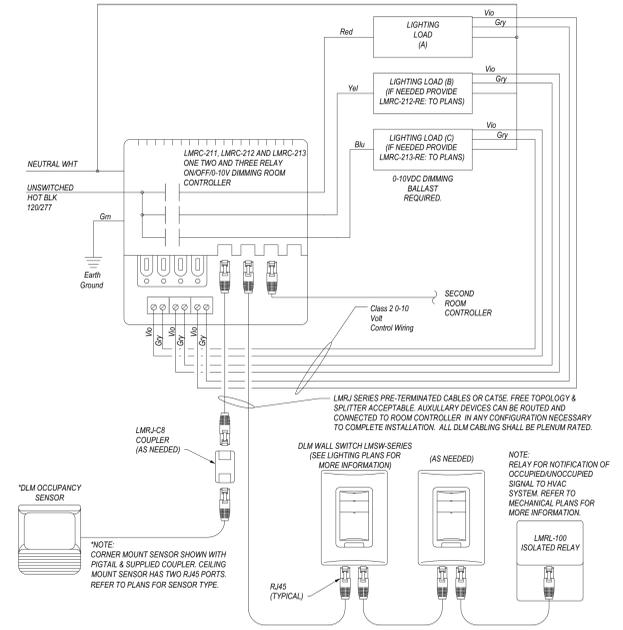
SEAL:  
  
 PHILLIP I. PARRA - ENGINEER  
 MO#: E-28366  
 02-21-2025

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0	ISSUED FOR BID		02/21/2025

ELECTRICAL DETAILS

**E400**



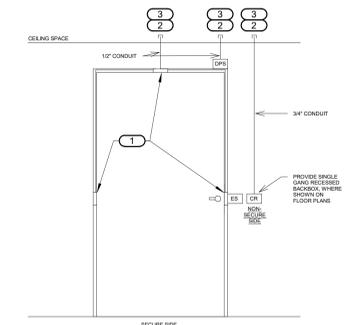
**LMRC-211**  
 SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-101 DEFAULTS TO MANUAL-ON/AUTOMATIC OFF.

**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. LOAD (B) AND (C) DEFAULTS TO MANUAL-ON CONTROL. BOTH LOADS TURN AUTOMATICALLY OFF.

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

NOTE:  
 - 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



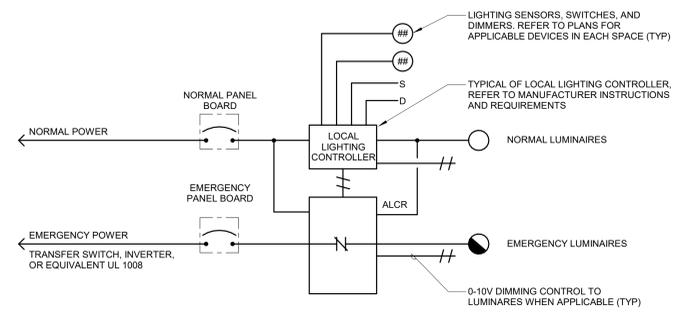
**NOTES:**

- 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 ROUGH-IN LOCATIONS AND REQUIREMENTS.
- COORDINATE FINAL REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE EACH ACCESS CONTROL DOOR WITH ONE (1) 18G UNSHIELDED CABLE AND ONE (1) 22G SHIELDED CABLE.

**KEYED NOTES:**

- PROVIDE JUNCTION BOXES FLUSH WITH THE DOOR FRAME WITH 1/2" FLEXIBLE CONDUIT BETWEEN BOXES AS REQUIRED FOR ROUTING OF ACCESS CONTROL WIRING INSIDE DOOR FRAME.
- STUB CONDUIT 6" ABOVE ACCESSIBLE CEILING.
- LOW VOLTAGE ACCESS CONTROL SYSTEM CABLES: ROUTE TO DOOR ACCESS CONTROL PANEL IN LOCAL TELECOMMUNICATION ROOM.

**2** **HOSPITAL 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





FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

CLINICAL SUPPORT & EDUCATION - SIM CENTER TRAINING SPACE RENOVATION PHASE II

ISSUED FOR BID

5 HOSPITAL DR. COLUMBIA, MO 65201

DATE: 02/21/2025  
PROJ. NO.: CP250271  
DESIGNED BY: ZMB  
DRAWN BY: ZMB  
CHECKED BY: PLR  
APPROVED BY: PLR

SEAL:



PHILLIP I. PARRA - ENGINEER  
MO#: E-28366

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0	ISSUED FOR BID		02/21/2025

ELECTRICAL SCHEDULES

E600

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(L/L) LENS/OVERLAY:	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/OVERLAY	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)

(MTO) MOUNTING:	RE - RECESSED	(WATT) PER:	FIX - FIXTURE, FT - FOOT, LAMP
CL - CEILING SURFACE	SP - SUSPENDED	(TYPE) LED	RGB - COLOR CHANGING LED
CV - COVE	SU - SURFACE	LED - LIGHT EMITTING DIODE	RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	UC - UNDER CABINET	TLED - TUBULAR LED LAMP	RGBA - COLOR CHANGING + AMBER
P - PERIMETER	WL - WALL	OLED - ORGANIC LED	RLED - RETROFIT LED
PL - POLE	O - OTHER (SEE DESCRIPTION)	DLED - DYNAMIC TUNABLE LED	WLED - WARM DIM LED

(TYPE) DRIVER:  
0-10V / 0-10V DIMMING EB - ELECTRONIC HL - HIGH/LOW (100%/50%) STEP DIM  
DALI - DIGITAL ADDRESSABLE ELV - ELECTRONIC LOW VOLTAGE LINE - LINE VOLTAGE DIMMING  
DMX - DIGITAL MULTIPLEX EM - EMERGENCY BATTERY ML - MULTI-LEVEL SWITCHING  
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			ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	DRIVER TYPE	MANUFACTURER AND MODEL
				L	W	H								
A	2'x4' 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"	39	FIX	LED	1	4500	277	0-10V	H.E. WILLIAMS AT1 SERIES
A1	SAME AS TYPE 'A' EXCEPT 4000 LUMEN OUTPUT.	O	RE	4'-0"	2'-0"	5 1/2"	34	FIX	LED	1	4000	277	0-10V	H.E. WILLIAMS AT1 SERIES
A2	SAME AS TYPE 'A' EXCEPT 3500 LUMEN OUTPUT.	O	RE	4'-0"	2'-0"	5 1/2"	30	FIX	LED	1	3500	277	0-10V	H.E. WILLIAMS AT1 SERIES
A3	SAME AS TYPE 'A' EXCEPT 2200 LUMEN OUTPUT.	O	RE	4'-0"	2'-0"	5 1/2"	19	FIX	LED	1	2200	277	0-10V	H.E. WILLIAMS AT1 SERIES
B	2'x2' DIRECT/INDIRECT TROFFER FOR LED SOURCE, DIFFUSE MATTE ACRYLIC CENTER SHIELDING, FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL	O	RE	2'-0"	2'-0"	5 1/2"	37	FIX	LED	1	4000	277	0-10V	H.E. WILLIAMS AT1 SERIES
B1	SAME AS TYPE 'B' EXCEPT 2200 LUMEN OUTPUT.	O	RE	2'-0"	2'-0"	5 1/2"	21	FIX	LED	1	2200	277	0-10V	H.E. WILLIAMS AT1 SERIES
C	1'x4' DIRECT/INDIRECT TROFFER FOR LED SOURCE, DIFFUSE MATTE ACRYLIC CENTER SHIELDING, FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL	O	RE	4'-0"	1'-0"	5 1/2"	30	FIX	LED	1	3000	277	0-10V	H.E. WILLIAMS AT1 SERIES
X	SINGLE-FACE OR DOUBLE-FACE EDGE LIT ACRYLIC LED EXIT SIGN, RED LETTERING, FURNISH WITH NECESSARY MOUNTING HARDWARE FOR CEILING AND CONFIGURE FACES AND ARROWS AS SHOWN ON PLANS, FURNISH WITH SELF BATTERY BACKUP WITH SELF-DIAGNOSTICS.	O	CL	1'-11"	2"	9"	3	FIX	LED	1	L.E.D.	277	EM	LITHONIA EDGR

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#).  
3. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.  
4. (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.  
5. 's' - SWITCH DESIGNATION FOR LIGHTING CONTROL.  
6. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.  
7. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.  
8. 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. Upon loss of normal power, all emergency luminaires shall turn ON via emergency lighting circuit.
(LD2)	Sequence: Multiple zones of lights are controlled in this space. ON: All light zones in this space shall turn on manually via 1 button on the wall control station. ADJUST: Each lighting zone shall be raised/lowered separately using a push button wall controller(s). OFF: All light zones in this space shall turn off together manually using 1 button on the wall control station, or automatically shut off, via occupancy sensor, once the space has been unoccupied for 20 minutes. Upon loss of normal power, all emergency luminaires shall turn ON via emergency lighting circuit.
(LD3)	Sequence: Dimmed lights are controlled in this space. ON: The lights shall turn on automatically to 100% via occupancy sensor. OFF: The lights shall reduce output to 50% when unoccupied for 20 minutes, via occupancy sensor, or turn off manually via wall control switch. Upon loss of normal power, all emergency luminaires shall turn ON via emergency lighting circuit.

POKE-THROUGH SCHEDULE

TAG NAME	TYPE	CORE SIZE	POWER	DATA / AV	MANUFACTURER
PT-1	POKE-THROUGH	8"	2 DUPLEX	C2 DATA JACK WITH 1-1/4" CONDUIT & 1-1/4" AV CONDUIT	HUBBELL SYSTEM ONE SERIES OR APPROVED EQUIVALENT

NOTES:  
1. PART NUMBERS REPRESENT MODEL FAMILY AND ARE NOT INCLUSIVE OF COVER AND DEVICE SPECIFICATIONS. ASSUME ALL PARAMETERS IN THE TABLE ABOVE.  
2. PROVIDE ALL LINE AND LOW VOLTAGE CONDUIT SYSTEMS BACK TO THEIR RESPECTIVE SOURCE OF TERMINATION. REFER TO POWER AND SYSTEMS DRAWINGS.  
3. ALL FINISH OPTIONS SHALL BE CONFIRMED BY ARCHITECT DURING THE CONSTRUCTION SUBMITTAL PROCESS, INCLUDING CARPET FLANGES AND SURFACE FLOOR APPLICATIONS.  
4. IN EXISTING BUILDINGS, INCLUDE CHANNELING, PATCHING AND REPAIRING OF EXISTING SLABS. SCAN XRAY/GPR AND SCHEDULE WORK ON OVERTIME BASIS AS NEEDED.

**EX. PANEL P6**

MOUNTING: SURFACE  
ENCLOSURE: NEMA 1  
FED FROM: 0/0P @  
LOCATION: ELEC. CE619

SINGLE TUB SOLID NEUTRAL GROUND BUS

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

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE P H N G	A	B	C	WIRE SIZE G N H P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y							
--	1	EXISTING LOAD	20	1	--	--	0	0		--	--	1	20	EXISTING LOAD	2	--			
--	3	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	4	--			
--	5	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	6	--			
--	7	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	8	--			
--	9	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	10	--			
--	11	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	12	--			
--	13	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	14	--			
--	15	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	16	--			
--	17	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	18	--			
--	19	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	20	--			
--	21	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	22	--			
--	23	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	24	--			
--	25	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	26	--			
--	27	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	28	--			
--	29	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	30	--			
--	31	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	32	--			
--	33	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	34	--			
--	35	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	36	--			
--	37	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	38	--			
--	39	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	40	--			
--	41	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	42	--			
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--	45	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	46	--			
--	47	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	48	--			
--	49	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	50	--			
--	51	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	52	--			
--	53	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	54	--			
--	55	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	56	--			
--	57	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	58	--			
--	59	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	60	--			
--	61	EXISTING LOAD	20	1	--	--	0	0.72				12	12	12	1	20	REC. DEBRIF RM 2 & ENDOSCOPY RM	62	C
--	63	EX. VAV POWER SUPPLY BOX	20	1	--	--			0	0.9		12	12	12	1	20	REC. PREP RM	64	A
--	65	EXISTING LOAD	20	1	--	--			0	0.9		12	12	12	1	20	REC. PREP RM	66	A
B	67	REC. SIM 1	20	1	12	12	1.26	1.26				12	12	12	1	20	REC. TASK TRAINING 2	68	B
B	69	REC. RMS SIM 1, CONTROL 1&2	20	1	12	12		1.28	1.44			12	12	12	1	20	REC. TASK TRAINING 2	70	B
B	71	REC. RMS SIM 2, CONTROL 1&2	20	1	12	12			1.1	1.26		12	12	12	1	20	REC. TASK TRAINING 1	72	B
B	73	REC. SIM 2	20	1	12	12	1.08	1.44				12	12	12	1	20	REC. TASK TRAINING 1	74	B
B	75	REC. SIM 3	20	1	12	12		1.46	1.26			12	12	12	1	20	REC. DEBRIF 2	76	B
B	77	REC. SIM 3 & CONTROL 3	20	1	12	12			1.26	1.44		12	12	12	1	20	REC. DEBRIF 1	78	B
B	79	REC. SIM 4 & CONTROL 4	20	1	12	12	1.26	1				12	12	12	1	20	HEAD WALL SIM 1&2	80	B
B	81	REC. SIM 4	20	1	12	12		1.46	1			12	12	12	1	20	HEAD WALL SIM 3&4	82	B
B	83	DOOR HARDWARE, MAIN CORR. & PREP RM	20	1	12	12				1	1	12	12	12	1	20	DOOR HARDWARE, TASK TRAINING 1&2	84	B
<b>Total Load:</b>					8.02 kVA	8.80 kVA	7.96 kVA												
<b>Total Amps:</b>					66.91	73.41	66.33												

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Power	4.8 kVA	100.00%	4.8 kVA	TOTAL CONNECTED LOAD: 24.78 kVA
Receptacles	19.98 kVA	75.03%	14.99 kVA	TOTAL ESTIMATED DEMAND LOAD: 19.79 kVA
				TOTAL CONNECTED AMPS: 68.78 A
				TOTAL ESTIMATED DEMAND AMPS: 54.9

\*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, B - FURNISH AND INSTALL CIRCUIT BREAKER OF SIMILAR TYPE TO EXISTING BREAKERS IN THIS PANEL. C - CIRCUIT BREAKER HAS EXISTING LOAD + NEW ADDED LOAD.

**EX. PANEL L5**

MOUNTING: SURFACE  
ENCLOSURE: NEMA 1  
FED FROM: 0/0P @  
LOCATION:

SINGLE TUB SOLID NEUTRAL GROUND BUS

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

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE P H N G	A	B	C	WIRE SIZE G N H P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y				
--	1	EXISTING LOAD	20	1	--	--	0	0		--	--	1	20	EXISTING LOAD	2	--
--	3	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	4	--
--	5	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	6	--
--	7	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	8	--
--	9	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	10	--
--	11	EXISTING LOAD	20	1	--	--				--	--	1	20	EXISTING LOAD	12	--
--	13	EXISTING LOAD	20	1	--	--	0	0				1	20	EXISTING LOAD	14	--