

# FAC 24-28X

# EMS Classrooms & Sim Lab Bldg. 14

## Sinclair College



Permit / Bid Set

ARCHITECT:



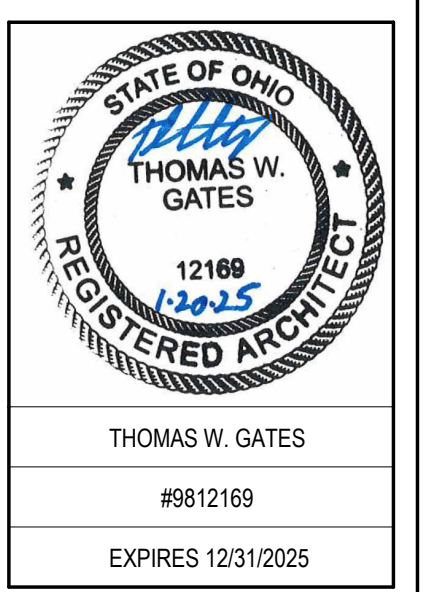
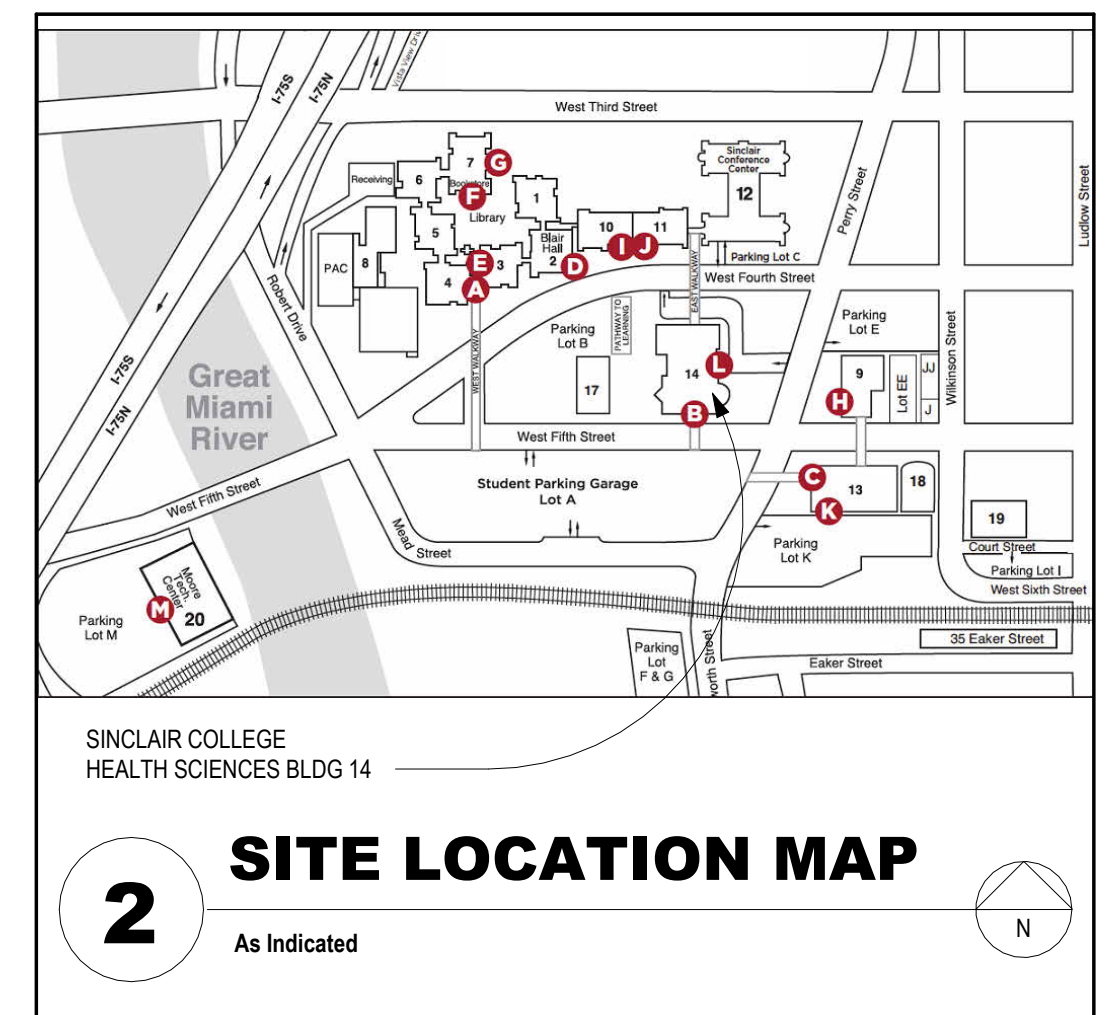
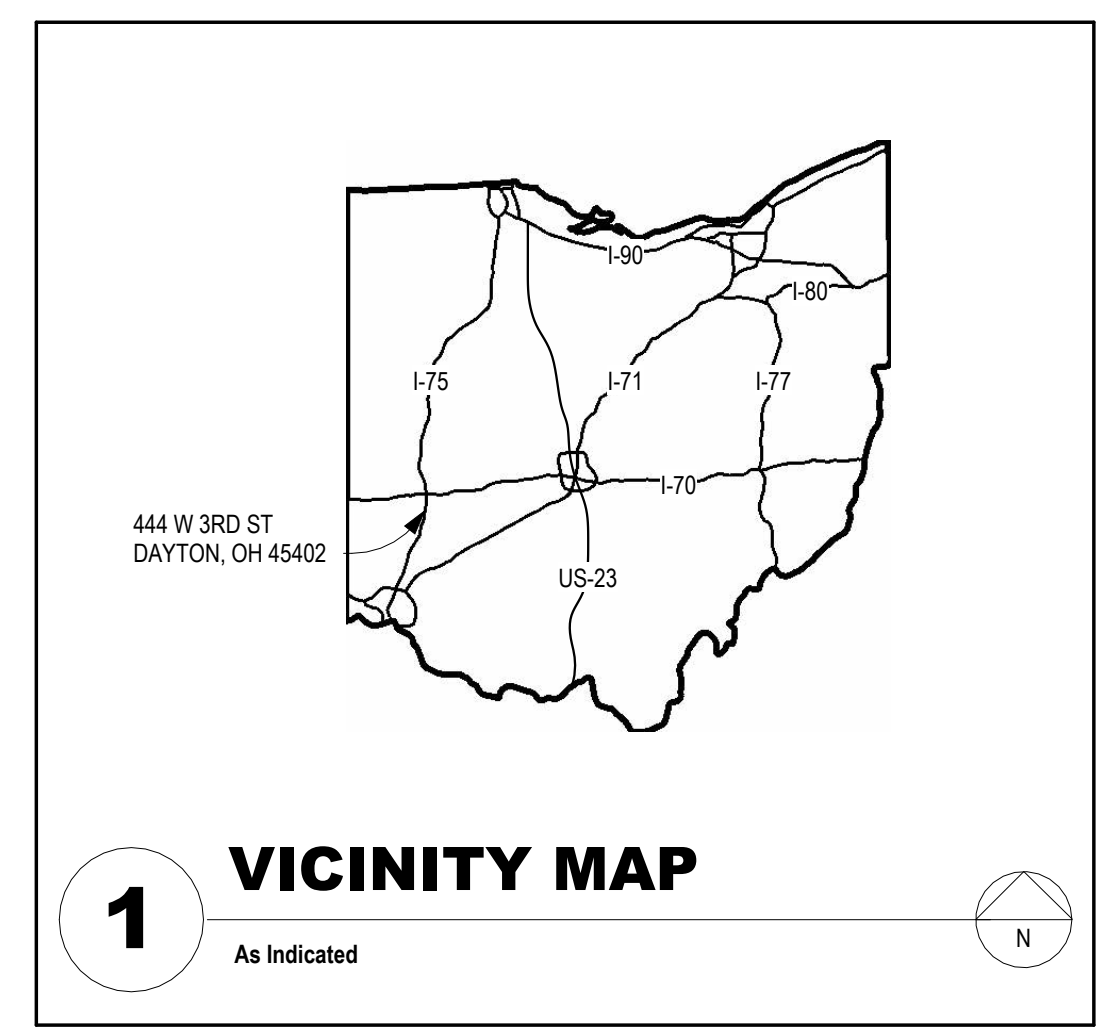
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**EMS Classrooms & Sim Lab Bldg. 14**  
Sinclair College  
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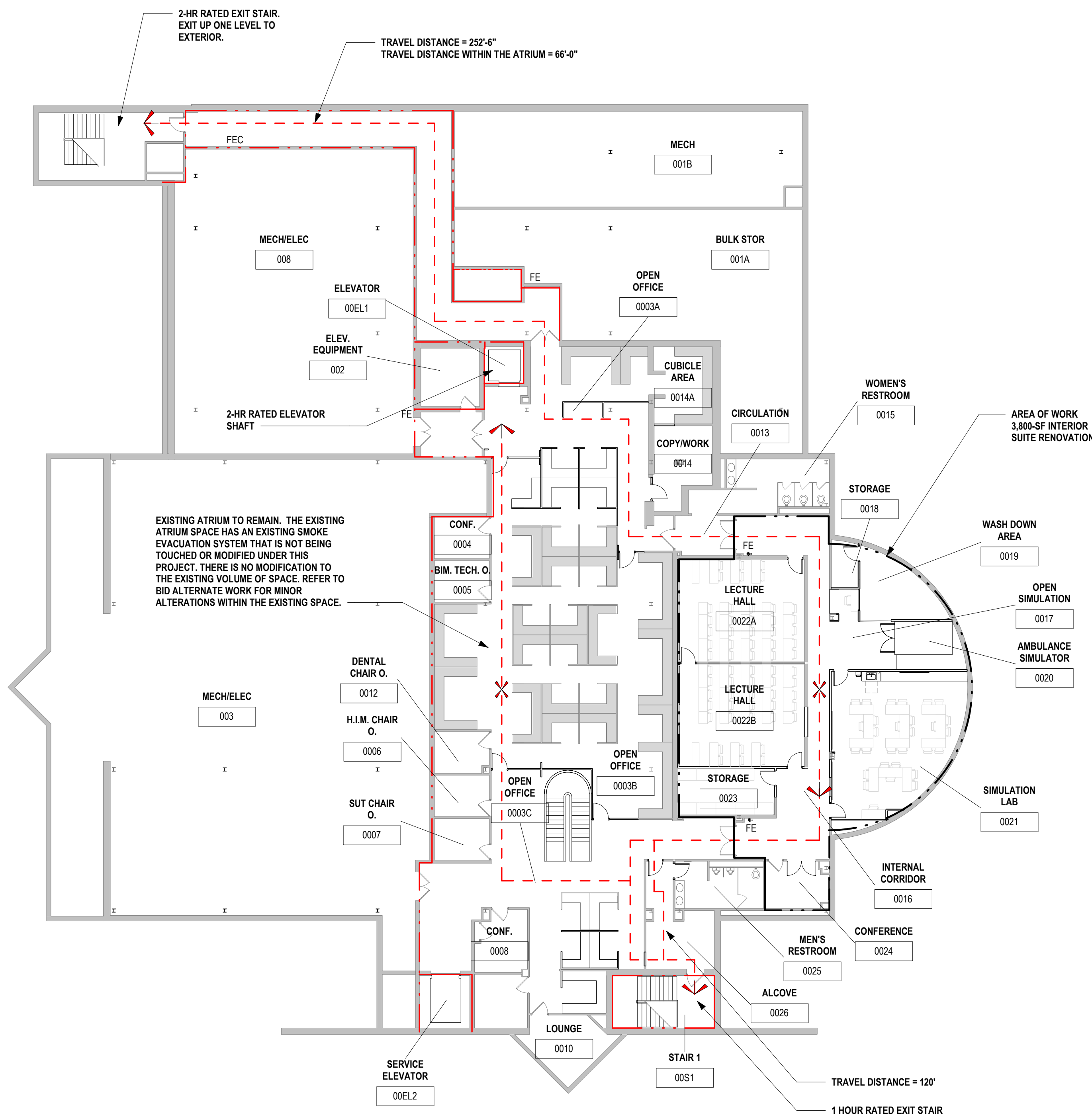
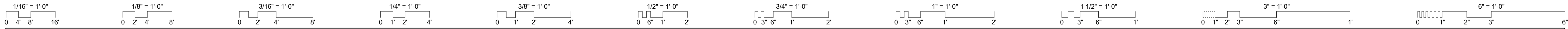
**COVER SHEET**

SCALE: N/A

**G-000**

JOB NO.: 24011

DATE: 1/20/2025



**1 LOWER LEVEL LIFE SAFETY PLAN**  
1/16" = 1'-0"

BUILDING CODE	
2024 Ohio Building Code (OBC) & 2024 Ohio Existing Building Code (OEBBC) 2024 Ohio Mechanical Code OMC 2017 Ohio Energy Codes 2015 ICC A117.1 Accessible and Usable Buildings and Facilities	
Sinclair College Health & Science Building 14	
<b>SECTION 3</b> OEBBC 301.3.1 Prescriptive compliance method.	
Existing Building Type:	IB - Non-combustible/ unprotected
Proposed Building Type:	Unchanged
Existing Building Use:	B-Business, A-3 Assembly (Accessory Use)
Proposed Building Use:	Unchanged
<b>SECTION 4</b> Section 404.9 Travel distance through an Atrium is limited to 200' - Unchanged	
<b>SECTION 5</b> <b>CHAPTER 5 - Prescriptive Compliance Method (OEBBC 301.3.1)</b> <b>Section 503 - Alterations</b>	
Table 503	B Business Use Group Allowable Building Area, per floor 23,000 SF Allowable Height 3 stories and 55'
Increases for fire suppression system throughout building Height increase (504.2) +20' height and + 1 story Increase for Frontage (506.2) 75% Suppression Area Increase (506.3) +200% area	
Total Allowable Height	4 stories, 75' for B - Unchanged
Total Allowable Building Area/Floor 86,250 SF allowable per story - Unchanged Existing Lower Level = 30,280 SF (renovated area = 3,800 SF) Existing First Floor Level = 38,719 SF Existing Second Floor Level = 36,384 SF Existing Third Floor Level = 35,967 SF Total = 141,350 SF	
Total renovated area =	3,800 SF
Section 508.2 Accessory Occupancy The Atrium Space on the first floor is an Accessory A-3 Occupancy for the Building as it complies with the Area limitations as 508.2.1 & 508.2.3. outlined in - Atrium Area = 3,585 SF < 10% of 38,719 SF of the first floor - A-3 Tabular Area in Table 503 = 9,500 SF - A-3 Tabular Height in Table 503 = 2 Stories	
Section 508.2.4 A separation between the A-3 Accessory Use and B-Business Use is not required.	
<b>SECTION 6</b> <b>Fire-Resistance Rating Requirements for Building Elements:</b> Table 601	
Interior Load Bearing Walls:	0 Hour
Non-Load Bearing Partitions:	0 Hour
Exterior Walls-Load Bearing and Non-Load Bearing:	0 Hour
Floor construction and associated secondary members:	0 Hour
Roof Construction and associated secondary members:	0 Hour
Egress Width: The capacity, in inches, of means of egress components other than stairways shall be OBC 1005.3.2 calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.2 inch per occupant. Stairs shall be calculated at 0.3 inch per occupant.	
<b>SECTION 9</b> <b>Fire Protection:</b> 903.2 Building is Fully Sprinklered - Renovated areas will modify sprinklers as required.	
Existing Occupant Load:	B: 150 gross SF A-3: 15 net SF tables & chairs
Table 1000.4.1.2	Total - 952
Proposed:	Unchanged
<b>SECTION 10</b> <b>Max Distance to Exit:</b> Table 1017.2	
B: 300 ft w/ sprinkler A-3: 250 ft w/sprinkler	
Table 1017.2	
Common Path of Travel: Table 1006.2.1	
B: 100 ft w/ sprinkler A-3: 75 ft w/ sprinkler	
Table 1006.2.1	
Exit Stairs Rating: 713.4	
1 Hour - Unchanged	
Exit Access Corridors: 1020.2	
0 Hours w/ Type 13 sprinkler	
Min. Corridor Widths: Table 1020.2	
Any occupancy not listed: 44 inches	
Access to MEP equipment: 24 inches	
Occupant load less than 50: 36 inches	
Min. Stair Widths: 1011.2 & 1009.3.2	
Any occupancy that is non-accessible: 44 inches	
Accessible stairs in w/o sprinklers: 48 inches min. between rails	
Occupant load less than 50 non-accessible: 36 inches	
Plumbing Fixture Counts: Table 2902.1	
B: WC-1 per 1 <sup>st</sup> 25 for the 1 <sup>st</sup> 50 and then 1 per 50 for the remainder	
LAV- 1 per 40 for the 1 <sup>st</sup> 80 and then 1 per 80 for the remainder	
DF- 1 per 100	
Janitor Sink: 1 service sink	
Proposed:	Unchanged
Structural Live Loads:	Unchanged

LEGEND	
	LIFE SAFETY TRAVEL DISTANCE
	1 HR RATED PARTITION ASSEMBLY
	2 HR RATED PARTITION ASSEMBLY
	START
	EXIT

**STATE OF OHIO**  
**THOMAS W. GATES**  
REGISTERED ARCHITECT  
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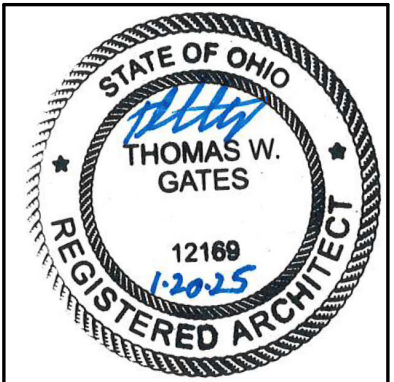
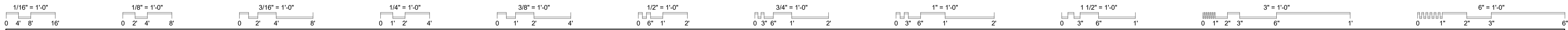
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**LOWER LEVEL LIFE SAFETY PLAN**

SCALE: 1/16" = 1'-0"  
**G-001**  
JOB NO.: 24011  
DATE: 1/20/2025





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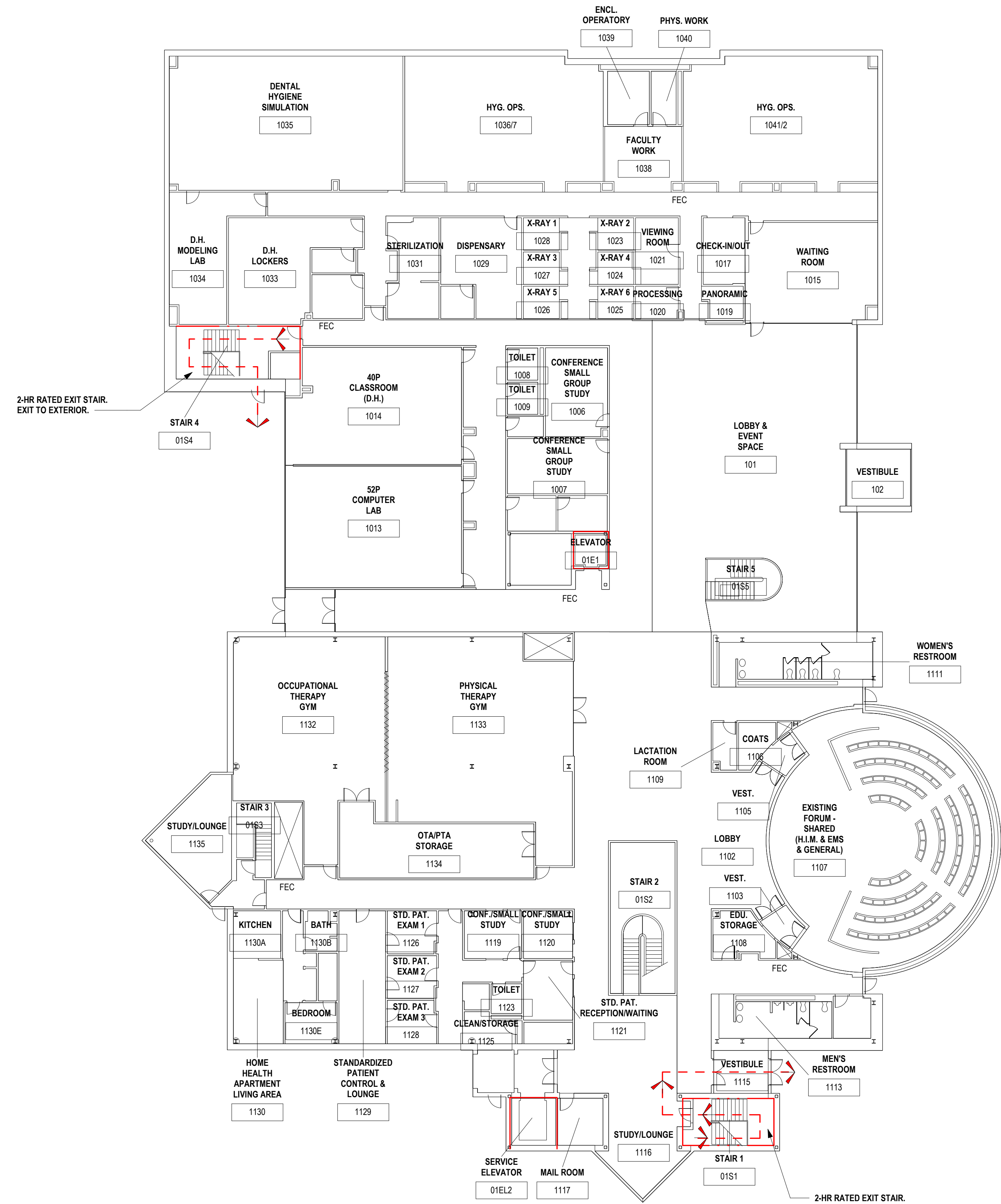
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**FIRST FLOOR LIFE SAFETY PLAN**

SCALE: 1/16" = 1'-0"

**G-002**

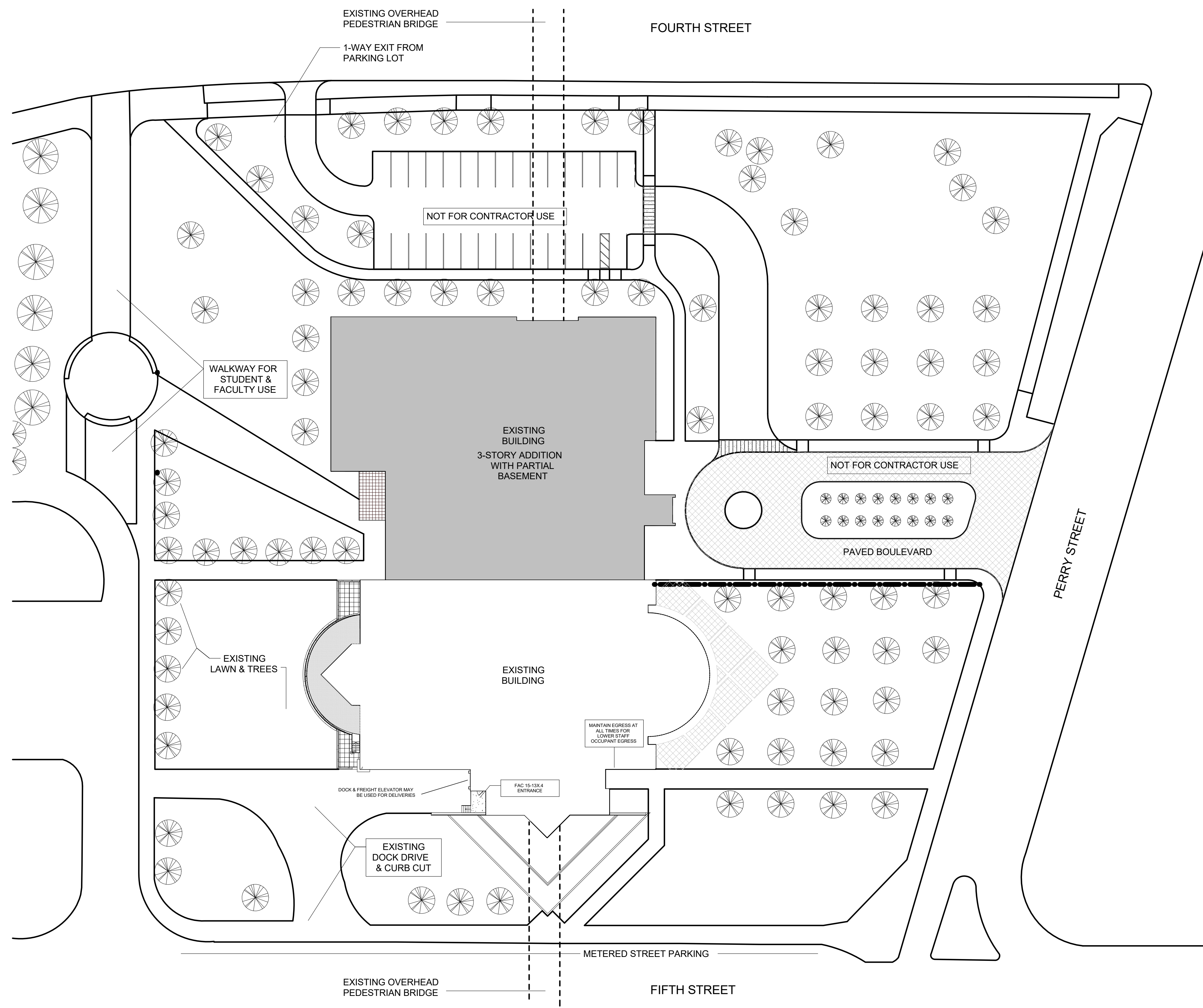
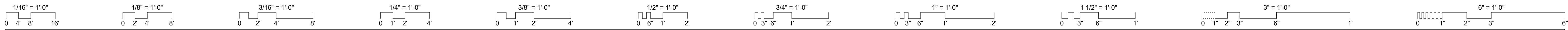
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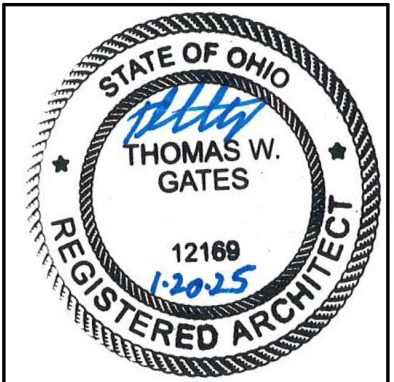
**1 FIRST FLOOR LIFE SAFETY PLAN**  
1/16" = 1'-0"

**LEGEND**

- LIFE SAFETY TRAVEL DISTANCE
- - - - 1 HR RATED PARTITION ASSEMBLY
- - - - 2 HR RATED PARTITION ASSEMBLY
- X START
- ← EXIT



- ### GENERAL NOTES
- A. CONTRACTOR TO MAINTAIN TWO MEANS OF EGRESS AT ALL TIMES. MAINTAIN MIN. 44" CLEARANCE IN CORRIDORS FOR FREE EGRESS AT ALL TIMES.
  - B. CONTRACTOR LAYDOWN TO BE WITHIN THE CONSTRUCTION SPACE, INSIDE BUILDING 14.
  - C. CONTRACTOR TO MAINTAIN CONSTRUCTION BARRIER BETWEEN THE CONSTRUCTION AREA AND THE REST OF THE OCCUPIED BUILDING.
  - D. FOR ITEMS TO BE REMOVED - CONTRACTOR TO DISPOSE OF PROPERLY. CONTRACTOR TO PROVIDE A WASTE-COLLECTION CONTAINER & IT SHALL BE LOCATED AS DIRECTED BY THE OWNER DURING DEMOLITION. CONTRACTOR SHALL NOT USE COLLEGE DUMPSTERS.
  - E. MAINTAIN & PROTECT ELECTRICAL DEVICES & THERMOSTATS AT WALLS, U.O.N.
  - F. THE CONTRACTOR SHALL HAVE USE OF THE DOCK AREA FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE USE WITH OWNER. LOADING ZONES ON CAMPUS ARE SIGNED WITH A POSTED TIME LIMIT TO PROVIDE ACCESS FOR INDIVIDUALS WHO DEPEND ON THESE SPACES TO MAKE TIMELY DELIVERIES. THE TIME LIMITS ENCOURAGE HIGH TURNOVER. THE LOADING ZONES SHOULD BE USED FOR DELIVERING HEAVY ITEMS ONLY. PERSONS DELIVERING SMALL PACKAGES ARE ENCOURAGED TO USE PARKING GARAGE OR DESIGNATED SHORT-TERM PARKING. CHECK THE POSTED TIME LIMITS. ALL LOADING ZONES ARE ENFORCED 24 HOURS PER DAY & ARE DESIGNATED TOW AWAY ZONES.



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**CONTRACTOR ACCESS PLAN**

SCALE: As indicated

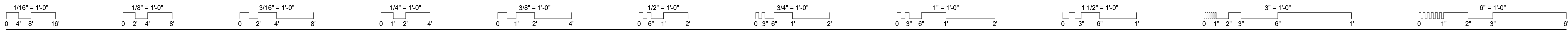
**G-003**

JOB NO.: 24011

DATE: 1/20/2025

**2 CONTRACTOR ACCESS PLAN**  
1" = 30'-0"



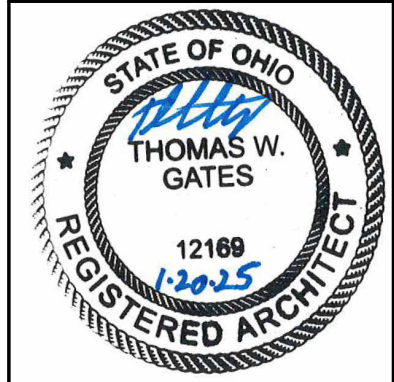


**GENERAL NOTES**

- A. CONTRACTOR TO MAINTAIN TWO MEANS OF EGRESS AT ALL TIMES. MAINTAIN MIN. 44" CLEARANCE IN CORRIDORS FOR FREE EGRESS AT ALL TIMES.
- B. CONTRACTOR LAYDOWN TO BE WITHIN THE CONSTRUCTION SPACE, INSIDE BUILDING 14.
- C. CONTRACTOR TO MAINTAIN CONSTRUCTION BARRIER BETWEEN THE CONSTRUCTION AREA AND THE REST OF THE OCCUPIED BUILDING.
- D. FOR ITEMS TO BE REMOVED - CONTRACTOR TO DISPOSE OF PROPERLY. CONTRACTOR TO PROVIDE A WASTE-COLLECTION CONTAINER & IT SHALL BE LOCATED AS DIRECTED BY THE OWNER DURING DEMOLITION. CONTRACTOR SHALL NOT USE COLLEGE DUMPSTERS.
- E. MAINTAIN & PROTECT ELECTRICAL DEVICES & THERMOSTATS AT WALLS, U.O.N.
- F. THE CONTRACTOR SHALL HAVE USE OF THE DOCK AREA FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE USE WITH OWNER. LOADING ZONES ON CAMPUS ARE SIGNED WITH A POSTED TIME LIMIT TO PROVIDE ACCESS FOR INDIVIDUALS WHO DEPEND ON THESE SPACES TO MAKE TIMELY DELIVERIES. THE TIME LIMITS ENCOURAGE HIGH TURNOVER. THE LOADING ZONES SHOULD BE USED FOR DELIVERING HEAVY ITEMS ONLY. PERSONS DELIVERING SMALL PACKAGES ARE ENCOURAGED TO USE PARKING GARAGE OR DESIGNATED SHORT-TERM PARKING. CHECK THE POSTED TIME LIMITS. ALL LOADING ZONES ARE ENFORCED 24 HOURS PER DAY & ARE DESIGNATED TOW AWAY ZONES.

**CODED NOTES** (X)

- 1 RESTROOM FOR CONTRACTOR USE. MAINTAIN A CLEAN AREA AND REMOVE ANY CONSTRUCTION DUST DAILY.



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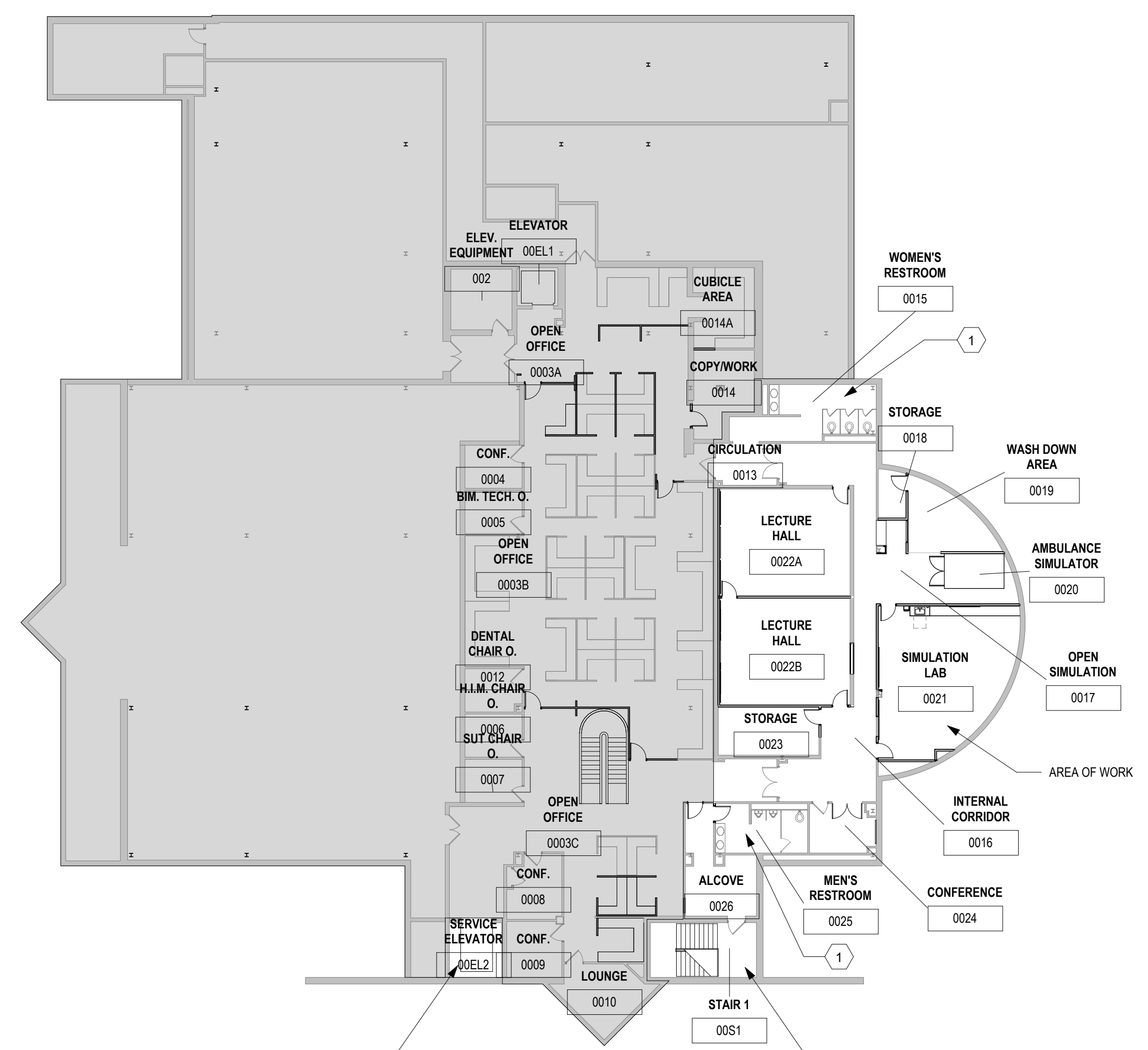
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**CONTRACTOR LOGISTICS PLANS**

SCALE: As indicated

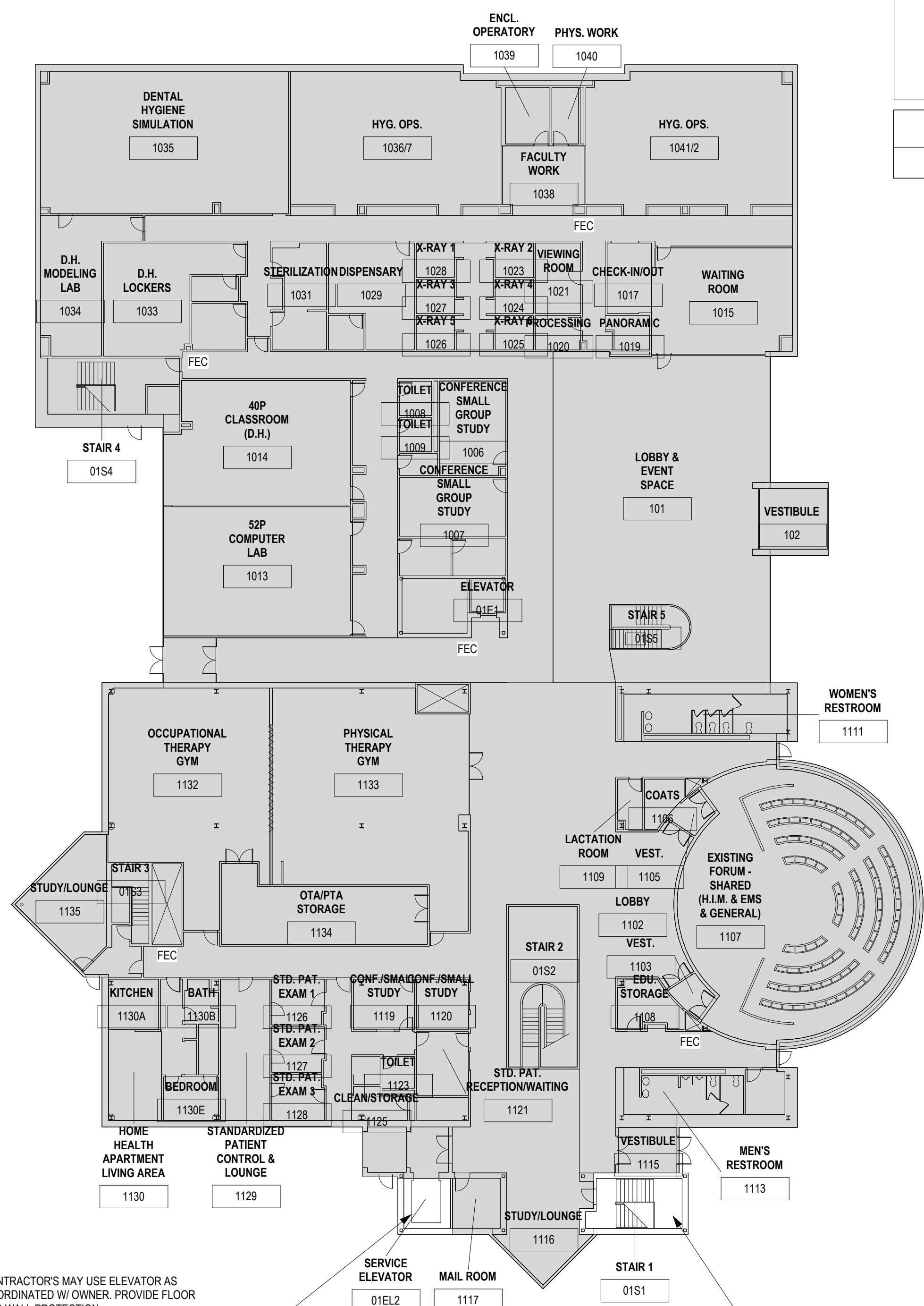
**G-004**

JOB NO.: 24011  
DATE: 1/20/2025



CONTRACTOR'S MAY USE ELEVATOR AS COORDINATED W/ OWNER. PROVIDE FLOOR AND WALL PROTECTION.

STAIRS FOR CONTRACTOR USE. EGRESS TO BE MAINTAINED @ ALL TIMES.



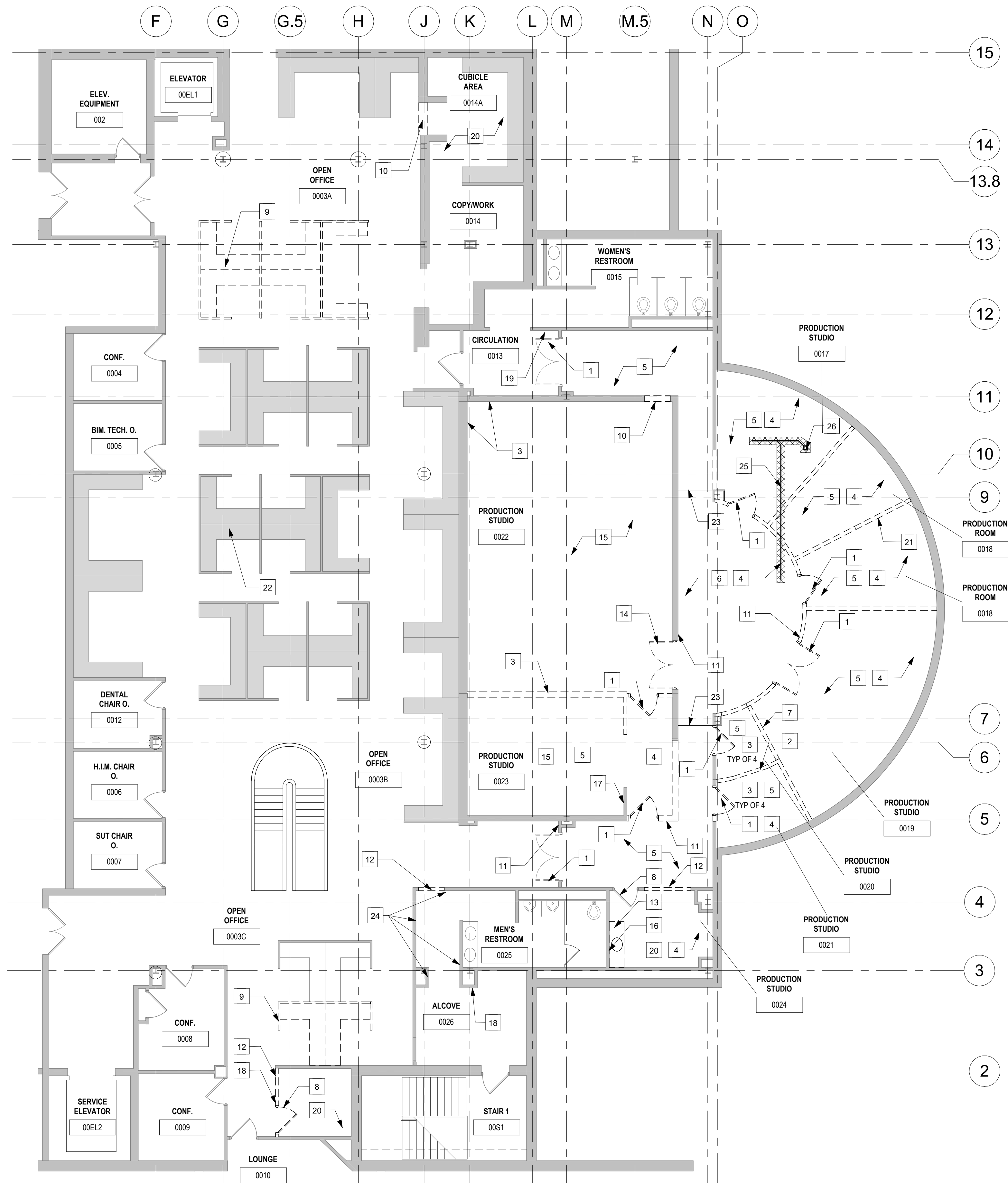
CONTRACTOR'S MAY USE ELEVATOR AS COORDINATED W/ OWNER. PROVIDE FLOOR AND WALL PROTECTION.

STAIRS FOR CONTRACTOR USE. EGRESS TO BE MAINTAINED @ ALL TIMES.

**1 LOWER LEVEL CONTRACTOR LOGISTICS PLAN**  
1" = 20'-0"

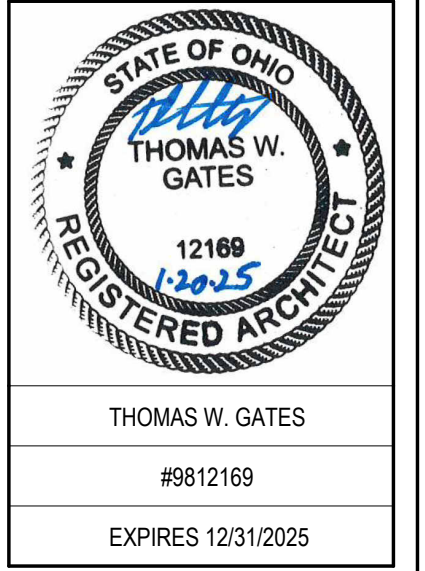
**2 FIRST FLOOR CONTRACTOR LOGISTICS PLAN**  
1" = 20'-0"





CODED NOTES	
1	REMOVE EXISTING DOOR AND FRAME.
2	REMOVE EXISTING INTERIOR WINDOW & FRAME.
3	REMOVE EXISTING PERFORATED ACOUSTICAL WALL PANEL, SALVAGE & COORDINATE WITH ARCHITECT FOR REINSTALL. PATCH AND PREP WALL FOR PAINT.
4	REMOVE EXISTING CARPET TILE & WALL BASE, TYP.
5	REMOVE EXISTING CEILING TILE & GRID, TYP. REFER TO MEP DWGS FOR ADDITIONAL INFORMATION.
6	REMOVE EXISTING SUSPENDED GYPSUM BOARD CEILING & COVE LIGHT.
7	REMOVE EXISTING ELECTRICAL CONTROLS. REFER TO MEP DWGS.
8	BID ALTERNATE: REMOVE EXISTING DOOR.
9	WORK BY OWNER UNDER SEPARATE CONTRACT - REMOVE EXISTING SYSTEMS FURNITURE WHERE INDICATED BY DASHED LINE AND SALVAGE TO REINSTALL.
10	REMOVE PORTION OF EXISTING WALL WHERE INDICATED BY DASHED LINE.
11	REMOVE EXISTING ROOM SIGNAGE.
12	ALTERNATE BID - REMOVE PORTION OF EXISTING WALL WHERE INDICATED BY DASHED LINE.
13	REMOVE EXISTING SINK & PLASTIC-LAMINATE COUNTERTOP. REFER TO MEP DWGS FOR ADDITIONAL INFORMATION.
14	REMOVE EXISTING DOOR(S) AND FRAME. INFILL OPENING TO MATCH ADJACENT CONSTRUCTION. REFER TO FLOOR PLAN.
15	REMOVE EXISTING RESILIENT FLOOR AND WALL BASE.
16	REMOVE EXISTING SURFACE MOUNTED MIRROR.
17	REMOVE EXISTING ELECTRICAL PANEL. REFER TO MEP DWGS.
18	ALTERNATE BID - REMOVE EXISTING ROOM SIGNAGE AND SALVAGE TO REINSTALL.
19	EXISTING ROOM SIGNAGE TO REMAIN.
20	EXISTING CEILING TILE & GRID TO REMAIN.
21	REMOVE EXISTING SERVICE HEAD AND ASSOCIATED MEP. REFER TO MEP DWGS.
22	EXISTING SYSTEMS FURNITURE TO REMAIN WHERE INDICATED BY SHADED REGION, TYP.
23	EXTENT OF CEILING TILE & GRID.
24	ALTERNATE BID - REMOVE EXISTING WALL TILE ON SURROUNDING WALLS. PREP AND REPAIR WALL FOR PAINT.
25	SAWCUT FLOOR FOR SANITARY DRAINAGE PIPE AS INDICATED BY WIDE LINE AND HATCH. REFER TO PLUMBING DWGS.
26	SAW CUT FLOOR FOR DRAIN. REFER TO PLUMBING DWGS.

- ### DEMOLITION GENERAL NOTES
- THE GENERAL CONTRACTOR SHALL COMPLETE ALL SELECTIVE DEMOLITION WORK REQUIRED IN ROOMS TO BE COMPLETELY REMODELED, EXCEPT THAT WHICH IS NOTED OTHERWISE. WORK INCLUDES, BUT IS NOT LIMITED TO (COORDINATE LIMITS WITH FLOOR PLANS):
    - PARTITIONS INDICATED WITH DASHED LINES.
    - DOORS, FRAMES, & HARDWARE INDICATED AS DASHED LINES.
    - EXISTING FLOORING FINISH & ADHESIVES.
    - EXISTING CEILING FINISH & ANCHORAGE DEVICES.
    - EXISTING WALL BASE.
    - EXISTING PLUMBING SYSTEMS BACK TO POINT CONCEALED BY CONSTRUCTION OR AS REQUIRED FOR NEW EXTENT OF CONSTRUCTION FOR ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO, VALVES, HANGERS, INSULATION, & FLOOR DRAINS.
    - EXISTING HVAC SYSTEMS BACK TO POINT CONCEALED BY NEW CONSTRUCTION OR AS REQUIRED FOR NEW CONSTRUCTION BY ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO:
      - ALL DUCTS, DIFFUSERS, DAMPERS, GRILLES, THERMOSTATS, INSULATION, & HANGERS.
      - ALL HOT WATER STEAM & CONDENSATE PIPING, INSULATION, VALVES, & HANGERS.
  - EXISTING ELECTRICAL SYSTEMS BACK TO A POINT CONCEALED BY NEW CONSTRUCTION OR AS REQUIRED FOR NEW CONSTRUCTION BY ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO:
    - ALL LIGHTS, SWITCHES, RECEPTACLES, PANELBOARDS, SPEAKERS, TELEPHONE DEVICES, & CLOCKS.
    - ABANDONED CONDUIT, WIRE, JUNCTION BOXES, & HANGERS.
  - DEMOLISH ALL TACK BOARDS, STORAGE SHELVES, MARKER BOARDS, ETC.
  - THE CONTRACTOR SHALL SCHEDULE ALL INTERRUPTIONS OF UTILITIES WITH THE OWNER.
  - THE OWNER WILL OCCUPY ADJACENT BUILDING AREAS DURING CONSTRUCTION PERIOD. CONTRACTOR TO COORDINATE ACCESS TO ANY RESTRICTED AREAS WITH THE OWNER.
  - CONTRACTOR FOR THE PORTION OF THE WORK INDICATED ON PLAN, IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS & THOSE INDICATED ON DRAWINGS SHOULD BE REPORTED TO THE A/E IMMEDIATELY.
  - ALL DAMAGE TO WALLS, FLOOR, & FIXTURES INCURRED BY REMOVAL OF ITEMS OR DEMOLITION WORK IS TO BE PATCHED & REFINISHED.
  - PROVIDE ALL SELECTIVE BUILDING DEMOLITION WORK REQUIRED TO COMPLETE ALL NEW WORK & REMODELING WORK WHETHER SPECIFICALLY NOTED OR NOT.
  - THE OWNER RETAINS THE RIGHT TO SALVAGE EXISTING BUILDING ITEMS INCLUDING, BUT NOT LIMITED TO:
    - ACOUSTICAL WALL PANELS.
    - 200 SQUARE FEET OF ACOUSTICAL CEILING PANELS.
  - IMMEDIATELY PRIOR TO THE START OF DEMOLITION, THE OWNER WILL VACATE & REMOVE ALL LOOSE FURNISHINGS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO TABLES, DESKS, & CHAIRS, KEY LOCKS, MISC HARDWARE. CONTRACTOR TO COORDINATE REMODELING SCHEDULE WITH THE OWNER & NOTIFY THEM OF START DATE TWO WEEKS & AT 72 HOURS IN ADVANCE.
  - COORDINATE LIMITS OF SELECTIVE DEMOLITION OF MECHANICAL/ELECTRICAL SYSTEMS WITH THE PLUMBING, HVAC, & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. PLUMBING, HVAC, & ELECTRICAL CONTRACTORS ARE RESPONSIBLE FOR:
    - IDENTIFYING TERMINATION POINTS OF DEMOLITION
    - TEMPORARY SHUT DOWN & CAPPING EXISTING ACTIVE PIPE, DUCTS, OR ELECTRICAL CIRCUITS.
    - RECONFIGURATION OF EXISTING SYSTEMS.
    - DISCONNECTING ABANDONED ELECTRICAL CIRCUITS.
    - HOLES IN EXISTING CONSTRUCTION REQUIRED FOR NEW CONSTRUCTIONS, UON
    - REPAIR/REPLACE EXISTING SPRAY ON FIRE PROOFING TO MAINTAIN FIRE RATING.
  - PATCH & REFINISH ALL LOCATIONS WHERE EQUIPMENT, DUCTS, CONDUITS, ETC. HAVE BEEN REMOVED. COORDINATE WITH MEP DRAWINGS.



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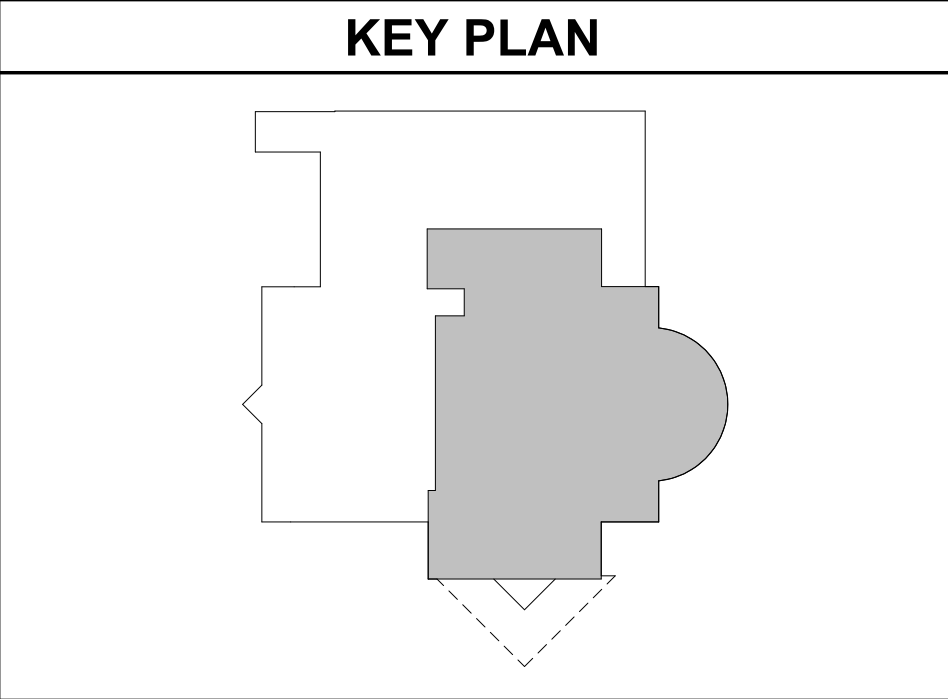
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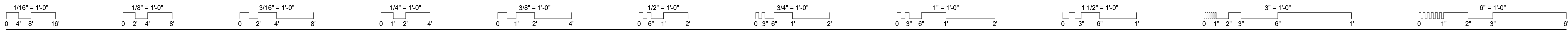
**PARTIAL LOWER LEVEL DEMOLITION PLAN**

SCALE: 1/8" = 1'-0"  
**AD-100**  
 JOB NO.: 24011  
 DATE: 1/20/2025



**1 LOWER LEVEL DEMOLITION PLAN**  
 1/8" = 1'-0"





## GENERAL NOTES

### I. GENERAL

- A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE INSTALLATION OF STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK. SHOULD THERE BE DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK.
- B. THIS IS A SINGLE PRIME CONTRACT ANY AND ALL REFERENCE TO MULTIPLE CONTRACTORS ARE FOR TRADE SPECIFIC CONTRACTOR'S INFORMATION. ALL CONTRACTOR WORK DESCRIBED IN THESE CONSTRUCTION DOCUMENTS IS THE RESPONSIBILITY OF THE LEAD CONTRACTOR.
- C. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- D. FILL ANY MASONRY VOIDS WITH MORTAR OR GROUT WHERE ANCHORS OCCUR.
- E. SEPARATE ALL DISSIMILAR METALS TO PREVENT CORROSION CAUSED BY DIALECTIC ACTION, OR BY OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER / SUPPLIER.
- F. THERE SHALL BE NO EXPOSED PIPE, CONDUITS, DUCTS, VENTS, ETC. IN DESIGNATED FINISH SPACES, UNLESS NOTED AS EXPOSED CONSTRUCTION ON FINISH SCHEDULE.
- G. PROVIDE WOOD BLOCKING IN WALLS AS REQUIRED IN ORDER TO SECURE ALL EQUIPMENT ACCESSORIES, CASEWORK, ETC. OR FURNISHED ITEMS INCLUDING ITEMS OWNER FURNISHED OR PROVIDED.
- H. PROVIDE CONTROL JOINTS IN GYPSUM BOARD AT MAXIMUM DISTANCE OF 30 LINEAR FEET FOR VERTICAL SURFACES AND 50 LINEAR FEET OR 2,500 SQUARE FEET FOR CEILINGS. REFER TO REFLECTED CEILING PLANS, PLANS AND WALL ELEVATIONS FOR SPECIFIC LOCATIONS. PROVIDE CONTROL JOINT AT SWING SIDE OF ALL DOORS. WHERE CONTROL JOINT IS INDICATED IN MASONRY, KEEP HEAD JOINTS CLEAR OF ALL MORTAR. PROVIDE CONTINUOUS BEAD OF SEALANT WITH BACKER ROD.
- I. REFER TO STRUCTURAL DRAWINGS FOR ALL LINTEL MATERIALS AND SIZES.
- J. REFER TO THE SPECIFICATIONS FOR DESCRIPTIONS OF INSULATION TYPES, GLASS TYPES, AND HARDWARE SETS.
- K. ALL EXPOSED CONCRETE BLOCK OUTSIDE CORNERS ARE TO BE BULLNOSE.

### GENERAL CONT.

- L. GENERAL TRADES CONTRACTOR TO COORDINATE FLOOR SLAB DEPRESSIONS REQUIRED BY FLOOR FINISH MATERIALS. PROVIDE LEVEL FINISH FLOOR. PROVIDE LOCAL DEPRESSION AT FLOOR DRAINS OF 1/4-INCH UON.
  - M. ALL TOILET ACCESSORY ITEMS NOTED HANDICAP ARE TO BE INSTALLED PER ICC A117.1 AND AMERICAN BARRIER ACT (ADAAG) STANDARDS. ANY DEVIATION FROM ICC A117.1 & ADA STANDARDS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
  - N. PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT. ACCESS PANELS LOCATED IN FINISHED SURFACES SHALL BE PAINTED TO MATCH ADJACENT SURFACES. LOCATION SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH INSTALLATION.
  - O. PROVIDE 8'-0" HIGH CORNER GUARDS AT ALL EXTERIOR CORNERS OF INTERIOR PARTITION WALLS, INCLUDING EXISTING INTERIOR PARTITION WALLS.
  - P. FIRE EXTINGUISHERS ARE TYPE FE-1 UON REFER TO SPECIFICATIONS FOR FIRE EXTINGUISHER TYPES.
- ### II. FIRE RESISTANCE RATING
- A. FIRE RATING INDICATIONS ON A WALL SHALL MEAN THE ENTIRE LENGTH OF WALL IS TO BE FIRE RATED. REFER TO DRAWINGS AND SPECIFICATIONS FOR UL DETAILS.
  - B. PIPING, DUCTS, ETC., THAT PENETRATE WALLS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE RESISTANCE RATING & STRUCTURAL INTEGRITY OF THE WALL. REFER TO MEP DRAWINGS FOR UL DETAILS.
  - C. RECESSED CABINETS, PANELS, BOXES AND CORNER GUARDS LOCATED IN FIRE RATED WALLS SHALL BE INSTALLED IN SUCH A WAY AS TO MAINTAIN THE FIRE RATED CONSTRUCTION.
  - D. WHERE REQUIRED FIREPROOFING IS REMOVED OR DAMAGED FOR THE PLACING OF WORK, CUP ANGLES, BRACES OR SUPPORTS, ETC. THE FIREPROOFING SHALL BE REPLACED BY THE CONTRACTOR REMOVING OR DAMAGING THE FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE FIREPROOFING SYSTEM. REFER TO SPECIAL INSPECTIONS IN THE SPECIFICATIONS.

### III. DIMENSIONS

- A. DO NOT SCALE THE DRAWINGS. CONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS BEFORE PROCEEDING WITH ANY WORK. DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK. FAILURE OF THE CONTRACTOR TO REVIEW THE CONTRACT DOCUMENTS AND VERIFY THE EXISTING CONDITIONS SHALL NOT BE SUFFICIENT CAUSE TO WARRANT A CHANGE IN CONTRACT AFTER CONTRACT IS AWARDED.
- B. INTERIOR PARTITIONS ARE DIMENSIONED TO THE FINISH FACE OF MASONRY OR GYPSUM BOARD, EXCLUDING FINISH MATERIALS SUCH AS CERAMIC TILE. THE CONTRACTOR SHALL COORDINATE FINISH DIMENSIONS WITH FINISH SCHEDULE WHEN CRITICAL TO THE INSTALLATION OF MILL WORK, CASEWORK, OR EQUIPMENT.
- C. FIRST FLOOR ELEVATION = 100'-0" WHICH IS EQUAL TO 'X'.
- D. UNLESS SHOWN OTHERWISE, DOOR LOCATIONS NOT LOCATED BY DIMENSIONS SHALL BE CENTERED IN WALL OR BE LOCATED 4" FROM FINISH PERPENDICULAR WALL TO EDGE OF DOOR FRAME.
- E. DIMENSIONING AT OPENINGS ARE THE CLEAR OPENING WHICH INCLUDES THE FRAME AND WINDOW/DOOR.

### IV. CASEWORK

- A. IF CASEWORK IS REFERENCED AS SIMILAR, CASEWORK MAY BE DIFFERENT DUE TO PLAN CONFIGURATION. COORDINATE DIFFERENCES WITH PLAN AS NEEDED. USE FILLERS, FINISHED ENDS, ETC.
- B. REFER TO MOUNTING HEIGHT SHEET A-001 FOR TYPICAL MOUNTING HEIGHTS.
- C. BACK SPLASHES & SIDE SPLASHED ARE TO LOCATED AT ALL SINK AREAS.
- D. TO INSURE PROPER & ADEQUATE BLOCKING, ALL BLOCKING LOCATIONS FOR CASEWORK WILL BE THE RESPONSIBILITY OF THE PARTY OR PARTIES PROVIDING CASEWORK & SHALL COORDINATE WITH THE GENERAL TRADES CONTRACTOR WHO PROVIDES THE BLOCKING.

### V. SIGNAGE

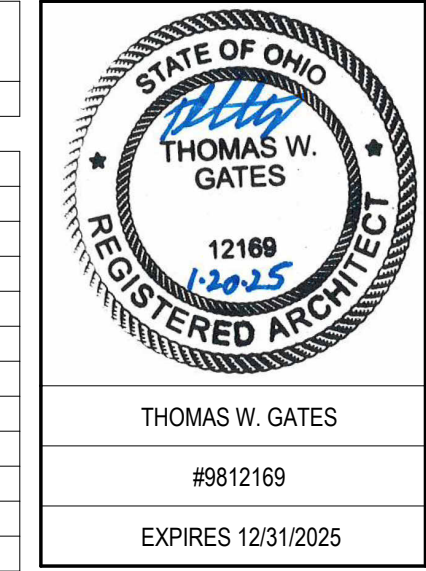
- A. REFER TO SPECIFICATION SECTION 101400 "SIGNAGE".
- B. PROVIDE EXIT SIGNAGE AT EACH BUILDING EXIT AND AT EACH EXIT IN ASSEMBLY SPACE WHERE MORE THAN ONE EXIT IS REQUIRED.
- C. PROVIDE SIGNAGE AT EACH FIRE EXTINGUISHER OR FIRE EXTINGUISHER CABINET.

### ARCHITECTURAL ABBREVIATIONS

ABBREV	DEFINITION
#	NUMBER
&	AND
@	AT
A/C	AIR CONDITIONING
A/E	ARCHITECT ENGINEER
A/V	AUDIO VIDEO
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
AS	ADJUSTABLE SHELF
AUTO	AUTOMATIC
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BOT	BOTTOM
BTWN	BETWEEN
CG	CORNER GUARD
CHT	CEILING HEIGHT
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CPT	CARPET/CARPET TILE
CT	CERAMIC TILE
CW	COLD WATER
D	DEPTH
DEMO	DEMOLISH
DET	DETAIL
DH	DOOR HEADER
DI	IONIZED WATER
DIA	DIAMETER
DIM	DIMENSION
DP	DEEP
DS	DOWN SPOUT
DWG(S)	DRAWING(S)
EA	EACH
ECT	ET CETERA
EF	EACH FACE
EIFS	EXTERIOR INSULATED FINISHING SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EMER	EMERGENCY
EQ	EQUAL
ETR	EXISTING TO REMAIN
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER-BRACKET MT
FEC	FIRE EXTINGUISHER & CABINET
FF	FINISHED FLOOR
FLR	FLOOR(ING)
FTG	FOOTING
G	GAS
GA	GAGE, GAUGE
GB	GRAB BAR
GC	GENERAL TRADES CONTRACTOR
GL	GLASS, GLAZING
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIB
HC	HANDICAP
HDW	HARDWARE
HM	HOLLOW METAL
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HW	HOT WATER
IJ	ISOLATION JOINT
IN	INCH
INCL	INCLUDE(D), INCLUDING
INSUL	INSULATION
INT	INTERIOR
JC	JANITOR'S CLOSET
JT	JOINT
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
M	MIRROR

### ARCHITECTURAL ABBREVIATIONS

ABBREV	DEFINITION
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR	MANUFACTURE(R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MKBD	MARKERBOARD
MT	MOUNT
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER OR OVERFLOW DRAIN
OPH	OPPOSITE HAND
OPP	OPPOSITE
P	PAINT
PLAM	PLASTIC LAMINATE
PNL	PANEL
PROJ	PROJECTION
PSI	POUNDS PER SQUARE INCH
PWD	PLYWOOD
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE(D), REINFORCING
REQD	REQUIRED
RES	RESILIENT
RESIN	RESINOUS
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RR	RESTROOM
SECT	SECTION
SF	SQUARE FOOT/FEET
SIM	SIMILAR
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK(NESS)
TKBD	TACK BOARD
TO	TOP OF
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TSL	TOP OF SLAB
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
W	WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WIN	WINDOW
WM	WIRE MESH



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 CHECKED BY: TG

DATE:				

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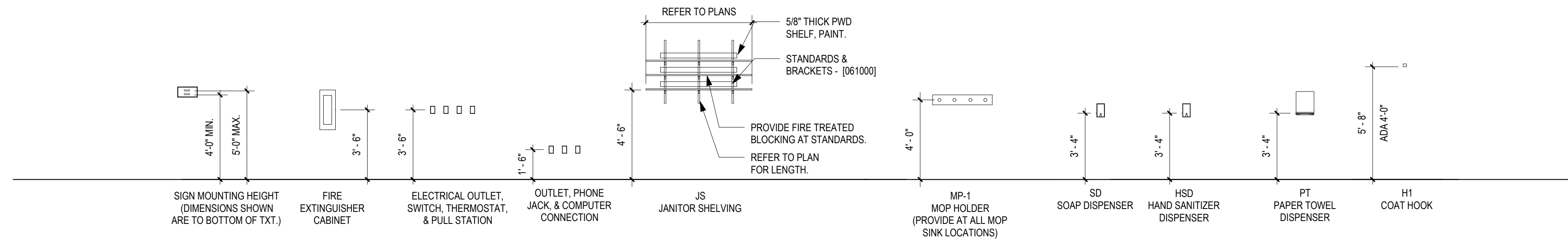
**ARCHITECTURAL ABBREVIATIONS, SYMBOLS, & NOTES**

SCALE: As indicated

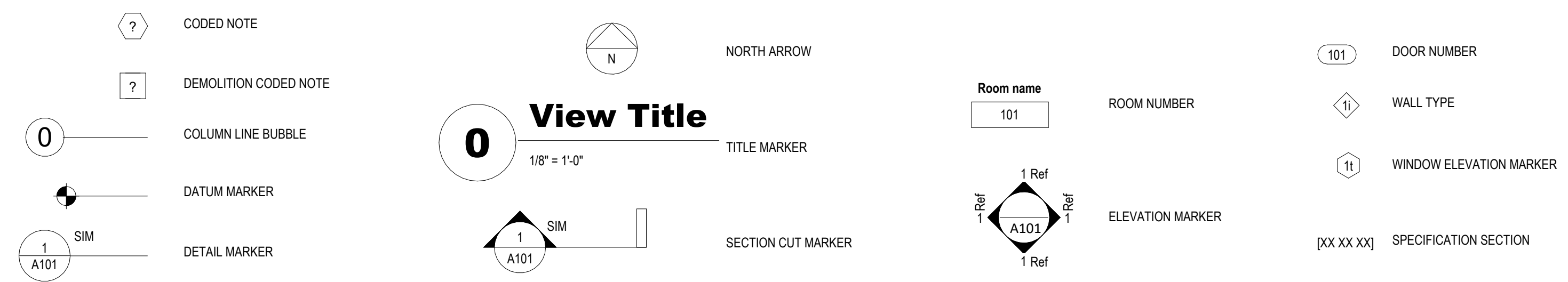
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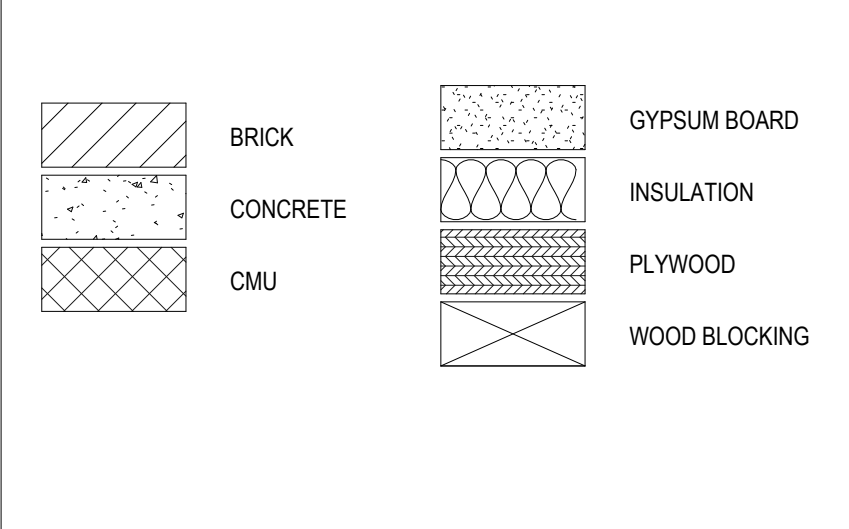
## FIXTURE HEIGHT

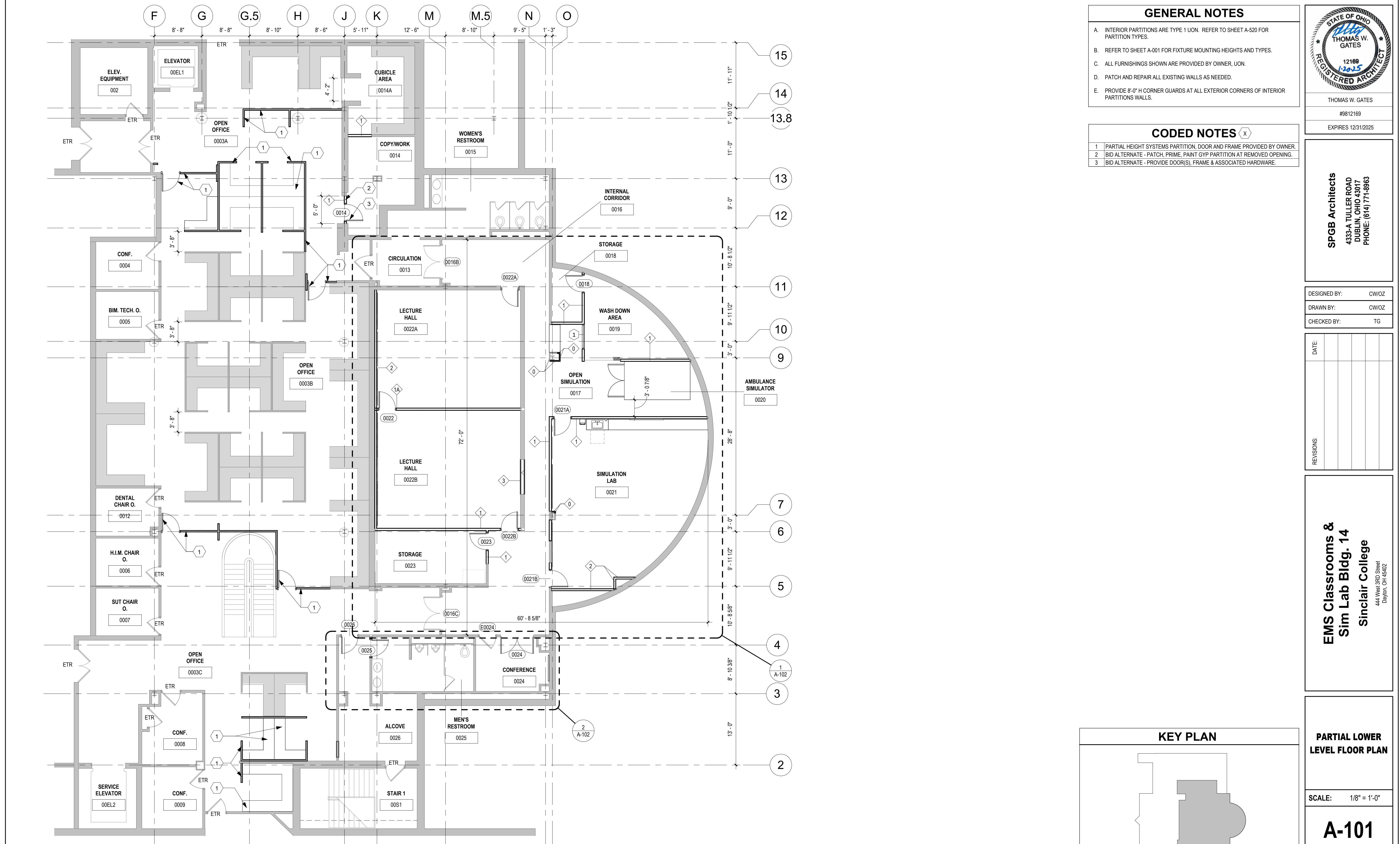
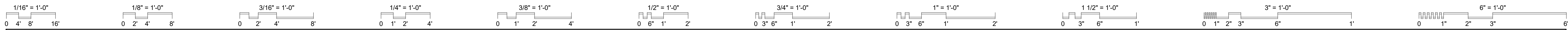


### ARCHITECTURAL SYMBOLS LEGEND



### MATERIAL LEGEND



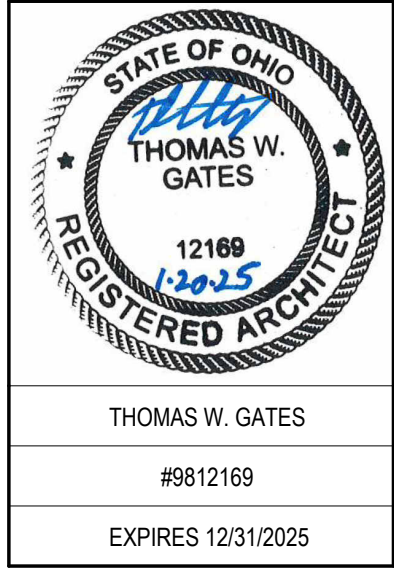


**GENERAL NOTES**

- INTERIOR PARTITIONS ARE TYPE 1 UON. REFER TO SHEET A-520 FOR PARTITION TYPES.
- REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.
- ALL FURNISHINGS SHOWN ARE PROVIDED BY OWNER, UON.
- PATCH AND REPAIR ALL EXISTING WALLS AS NEEDED.
- PROVIDE 8'-0" H CORNER GUARDS AT ALL EXTERIOR CORNERS OF INTERIOR PARTITIONS WALLS.

**CODED NOTES** X

- PARTIAL HEIGHT SYSTEMS PARTITION, DOOR AND FRAME PROVIDED BY OWNER.
- BID ALTERNATE - PATCH, PRIME, PAINT GYP PARTITION AT REMOVED OPENING.
- BID ALTERNATE - PROVIDE DOOR(S), FRAME & ASSOCIATED HARDWARE.



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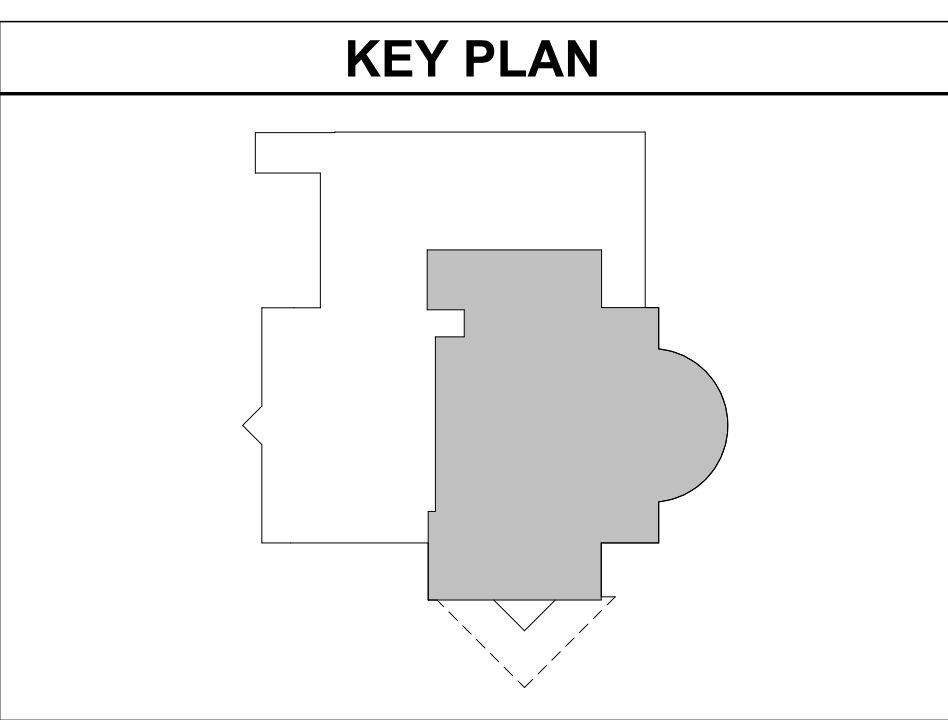
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 DRAWN BY: CW/OZ  
 CHECKED BY: TG

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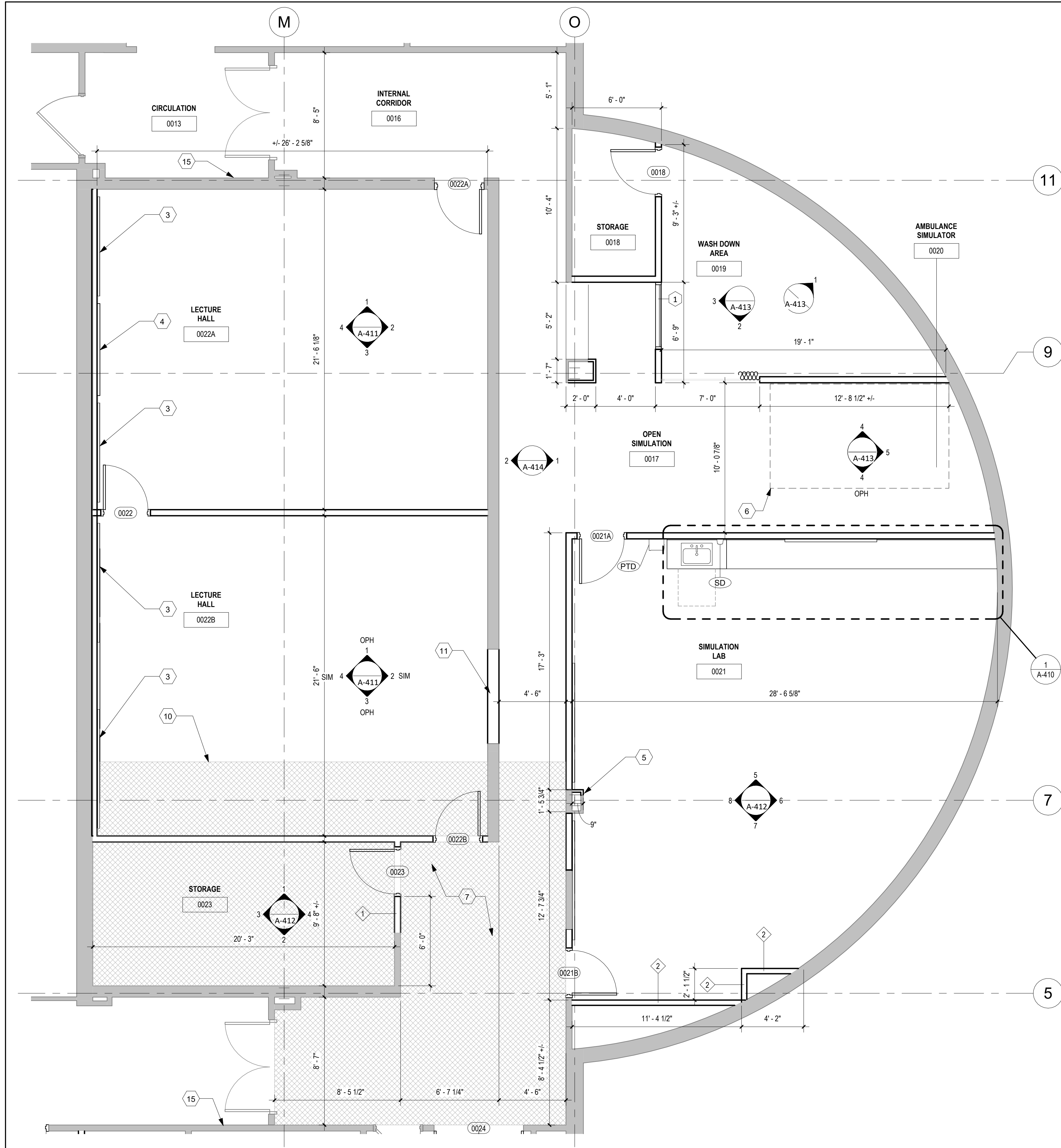
**PARTIAL LOWER LEVEL FLOOR PLAN**

SCALE: 1/8" = 1'-0"  
**A-101**  
 JOB NO.: 24011  
 DATE: 1/20/2025



**1 PARTIAL LOWER LEVEL FLOOR PLAN**  
 1/8" = 1'-0"





**1 ENLARGED PLAN - ROOMS 0022A, 0022B & 0023**  
1/4" = 1'-0"

**GENERAL NOTES**

- INTERIOR PARTITIONS ARE TYPE 1 UON. REFER TO SHEET A-520 FOR PARTITION TYPES.
- REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.
- ALL FURNISHINGS SHOWN ARE PROVIDED BY OWNER, UON.
- PATCH AND REPAIR ALL EXISTING WALLS AS NEEDED.
- PROVIDE 8'-0" H CORNER GUARDS AT ALL EXTERIOR CORNERS OF INTERIOR PARTITIONS WALLS.

**CODED NOTES**

- BID ALTERNATE - PATCH CARPET TILE IN AREA OF NEW OPENING
- BID ALTERNATE - PATCH, PRIME, PAINT GYP IN AREA OF NEW OPENING
- PROVIDE 4' X 8' MKBD MOUNTED AT 36" AFF, REFER TO ELEVATIONS
- 85" FLAT PANEL, OWNER FURNISHED, CONTRACTOR INSTALLED.
- PATCH EXIST GYP COLUMN
- AMBULANCE SIMULATOR PROVIDED BY OWNER. GC TO COORDINATE INSTALLATION WITH VENDOR. FIXED PARTITIONS MAY NEED TO BE CONSTRUCTED ON BOTH SIDES AFTER AMBULANCE SIMULATOR INSTALLATION IS COMPLETE. REFER TO MEP DWGS FOR ADDITIONAL COORDINATION.
- EXISTING RAISED FLOOR TO REMAIN AS INDICATED BY HATCH REGION. REPAIR OR REPLACE ANY DAMAGED TILES TO MATCH EXISTING. REFER TO DETAIL 3/A-102.
- 65" FLAT PANEL, OWNER FURNISHED, CONTRACTOR INSTALLED.
- BID ALTERNATE - PROVIDE DOOR(S), FRAME & ASSOCIATED HARDWARE.
- EXTENT OF EXISTING RAISED FLOOR.
- INSTALL SALVAGED ACOUSTICAL PANELS. COORDINATE SALVAGED PANELS TO BE USED WITH ARCHITECT.
- BID ALTERNATE - PROVIDE ADA DOOR PUSH BUTTON OPERATOR
- BID ALTERNATE - PATCH, PRIME, PAINT GYP PARTITION AT REMOVED OPENING.
- PROVIDE CARD READER. REFER TO MEPT DRAWINGS.

STATE OF OHIO  
THOMAS W. GATES  
REGISTERED ARCHITECT  
12169  
13025  
THOMAS W. GATES  
#9812169  
EXPIRES 12/31/2025

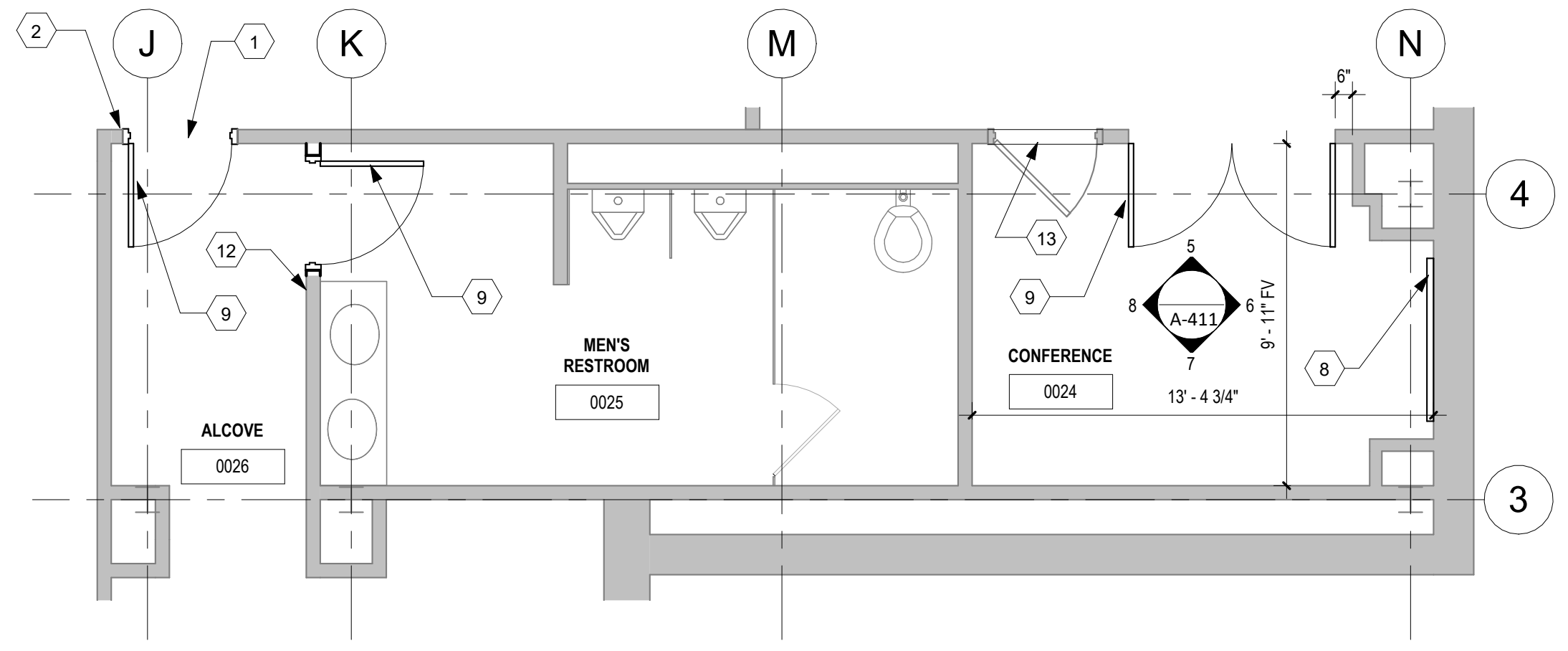
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DRAWN BY: CW/OZ/TE  
CHECKED BY: TG

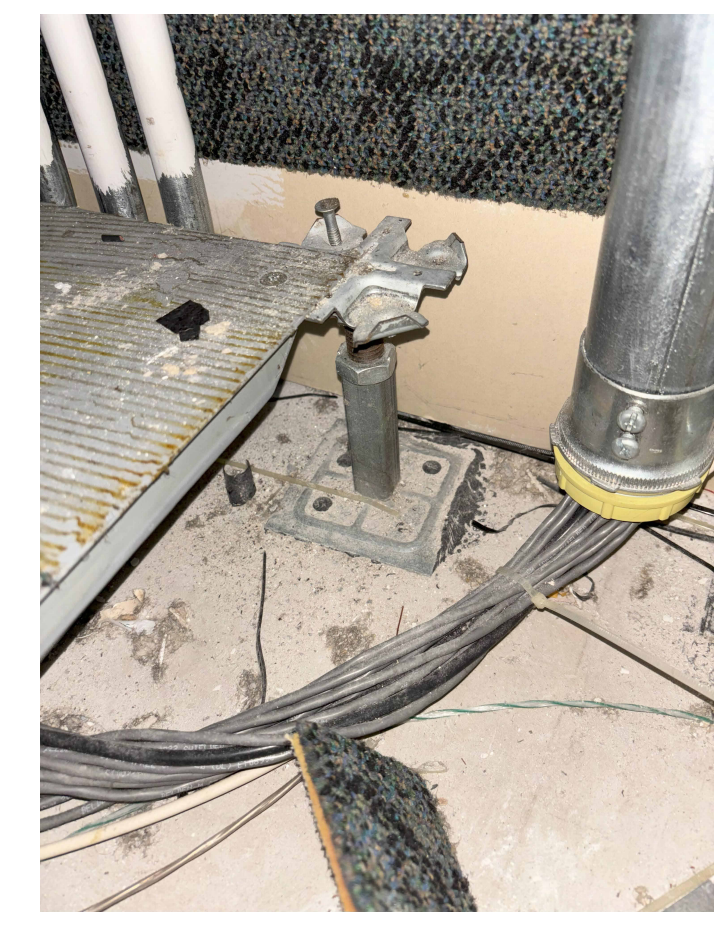
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**2 ENLARGED PLAN - ROOMS 0024 TO 0026**  
1/4" = 1'-0"

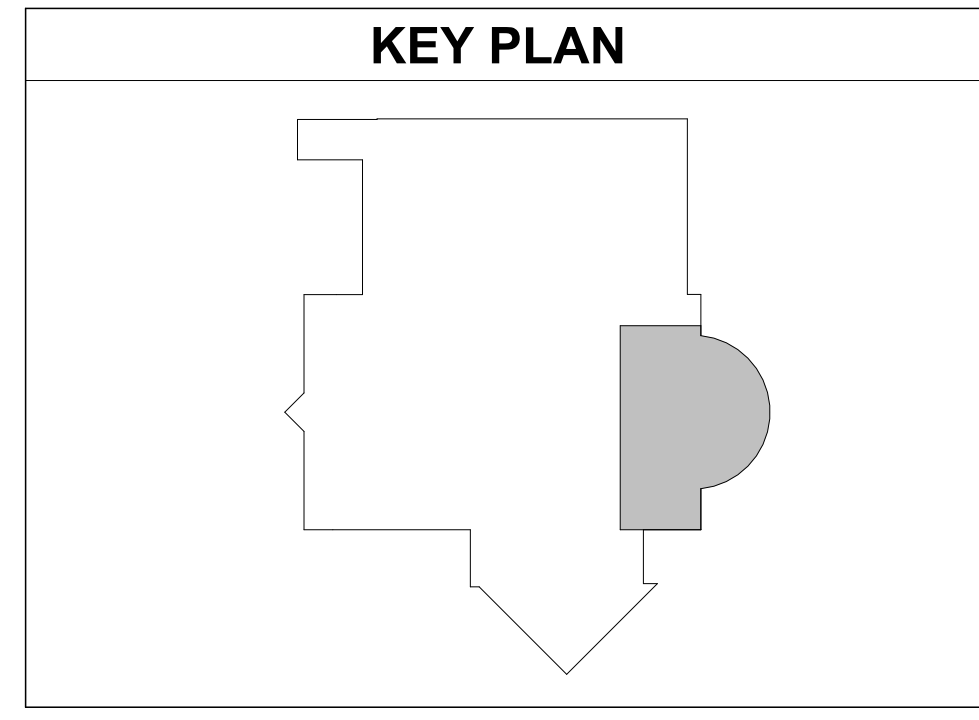


**3 DET - RAISED FLOOR**  
1/4" = 1'-0"

**FIXTURE SCHEDULE**

TAG	DESCRIPTION	REMARKS
PTD	PAPER TOWEL DISPENSER	
SD	SOAP DISPENSER	1

1. PROVIDED BY OWNER, INSTALLED BY GC



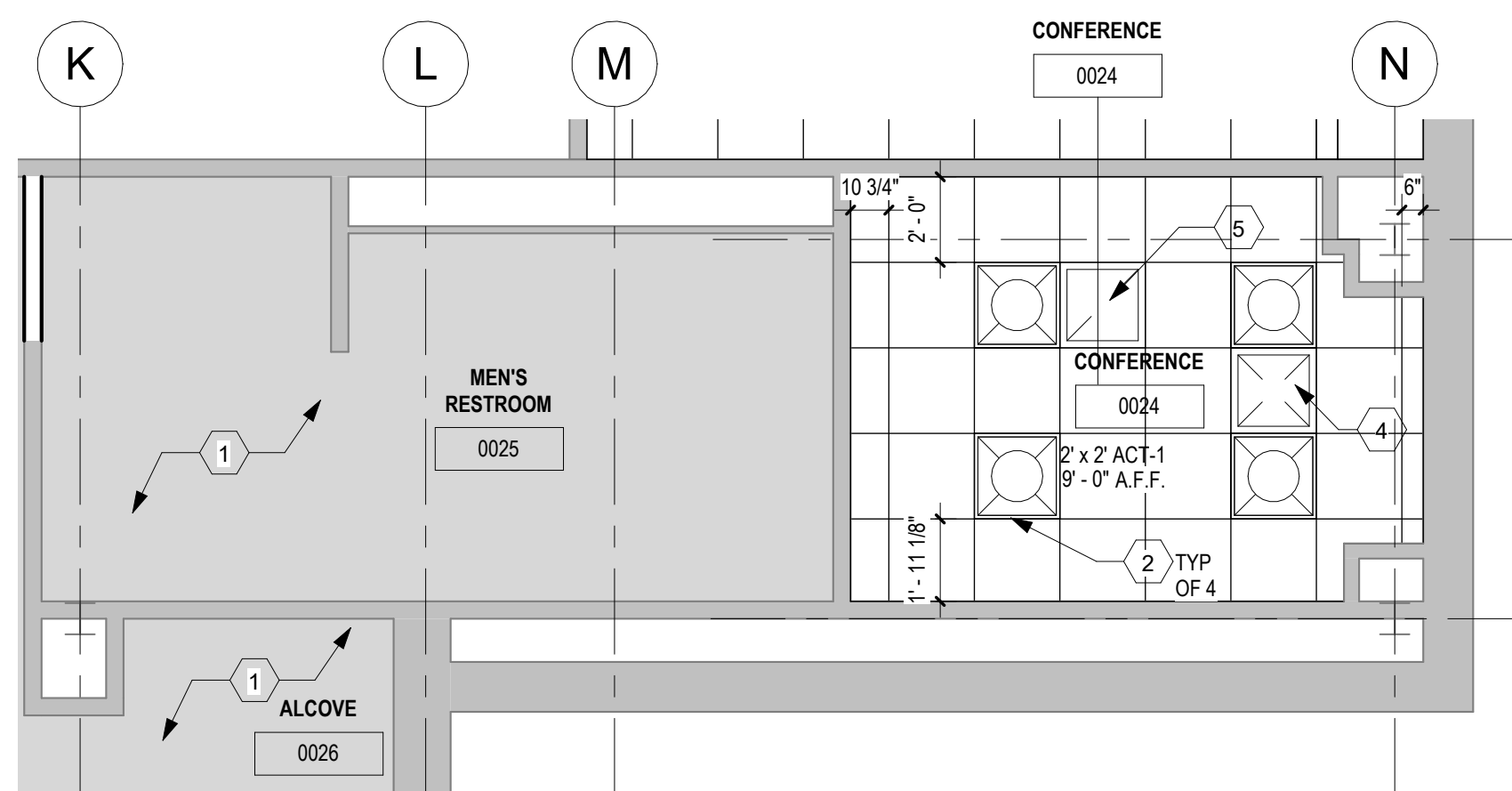
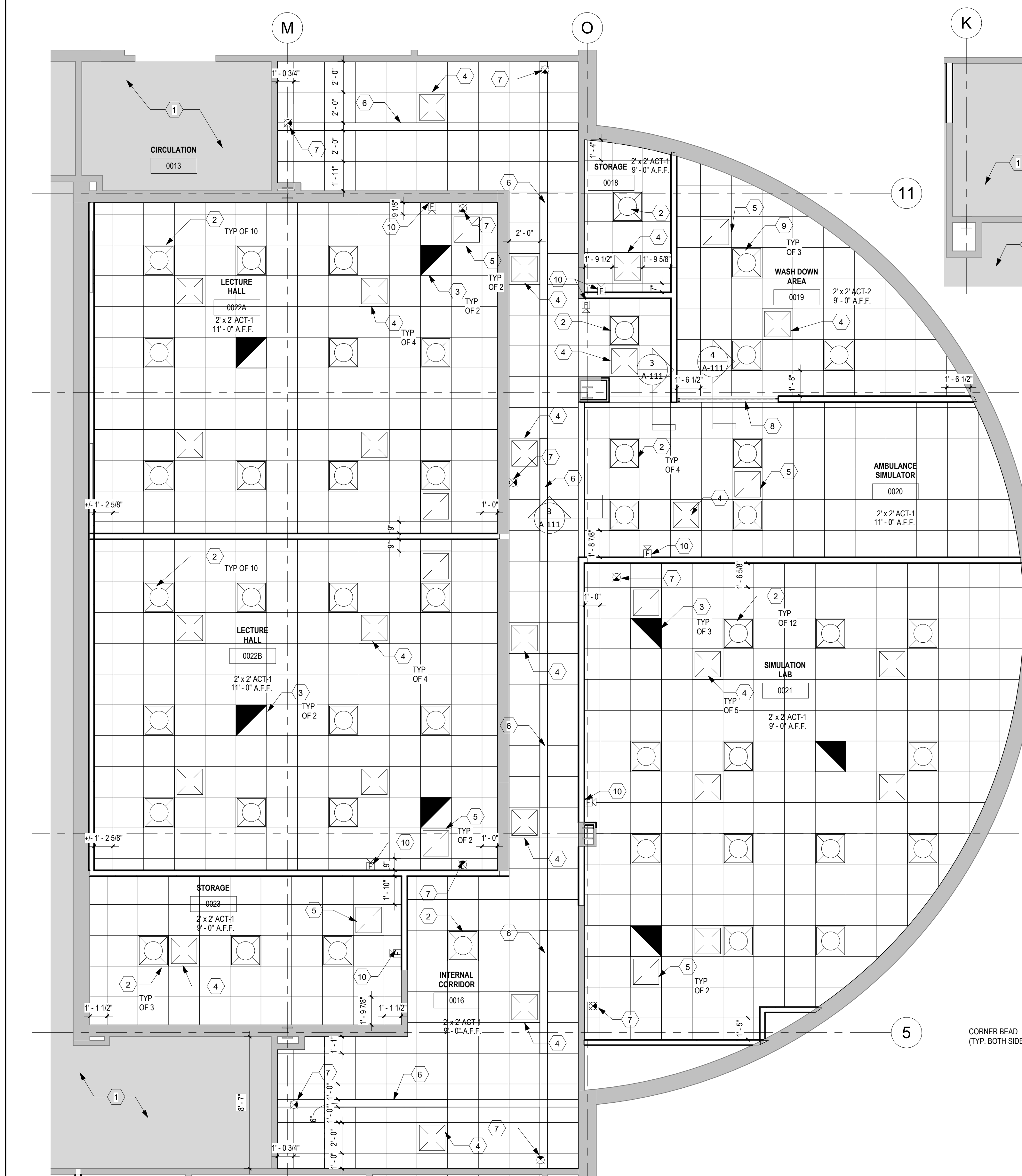
**ENLARGED LOWER LEVEL FLOOR PLANS**

SCALE: As indicated

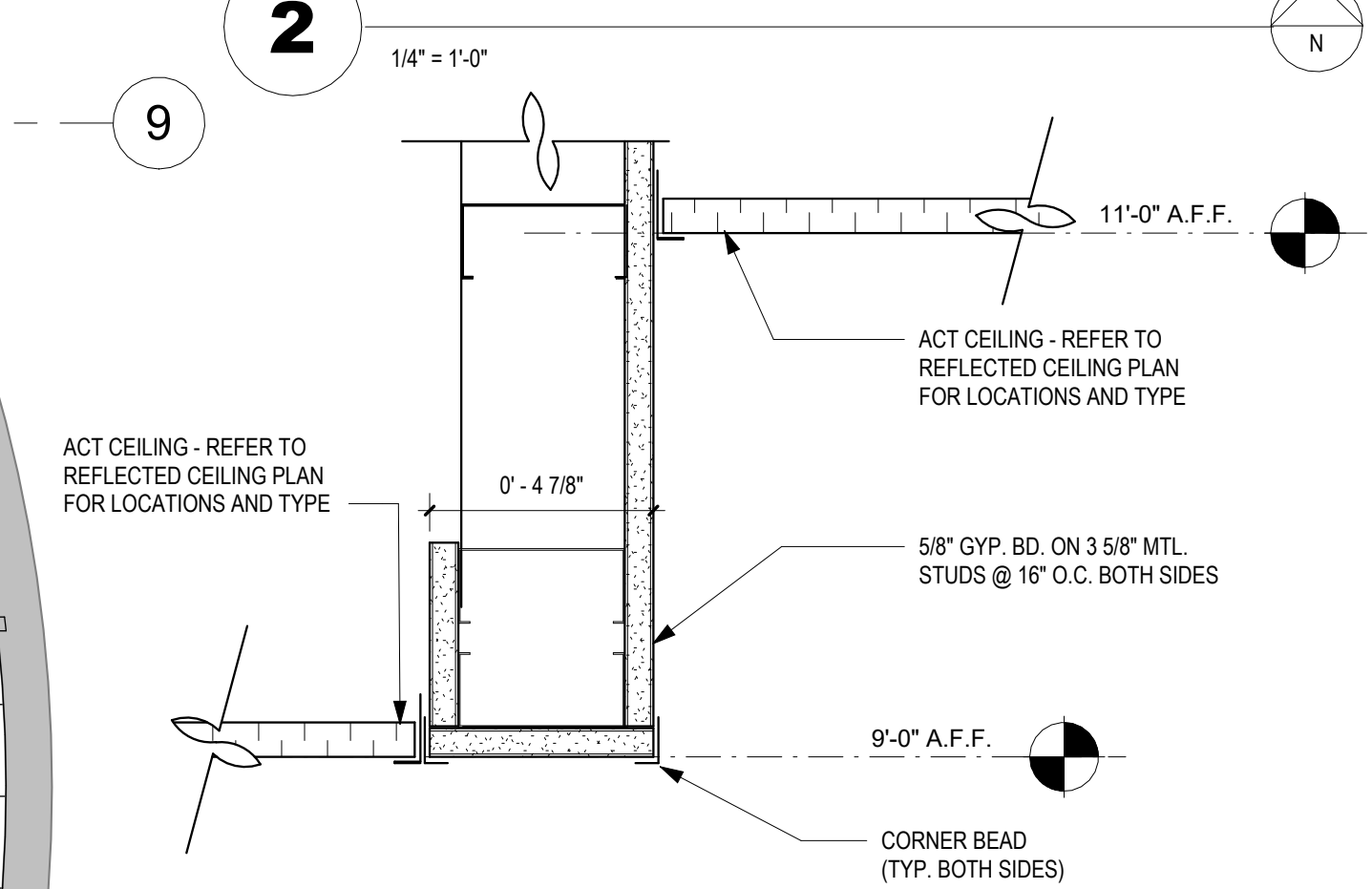
**A-102**

JOB NO.: 24011  
DATE: 1/20/2025

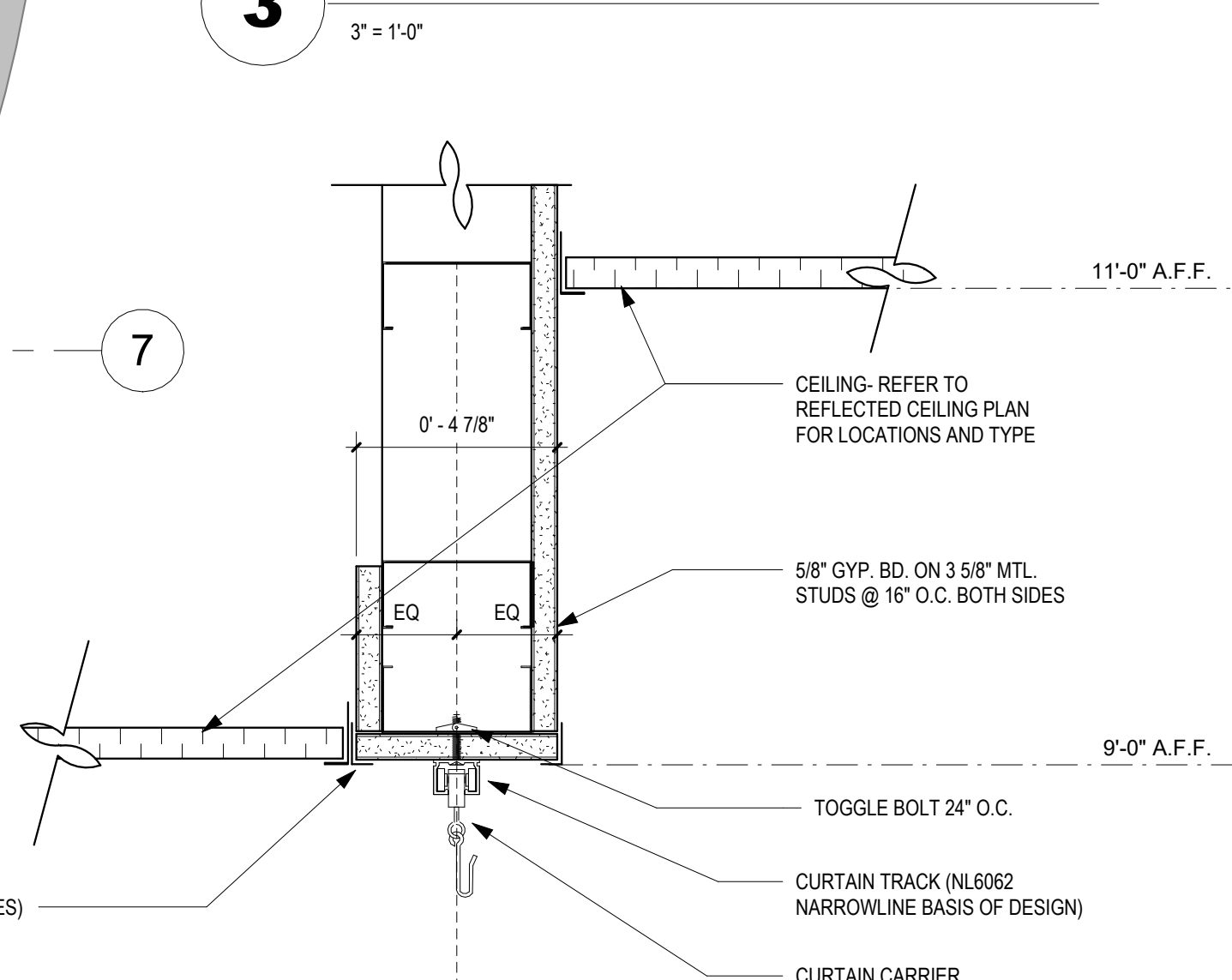




**ENLARGED RCP - ROOMS 0024 TO 0026**



**DET - BULK HEAD SOFFIT**



**DET - CURTAIN TRACK ON BULK HEAD SOFFIT**



**GENERAL NOTES**

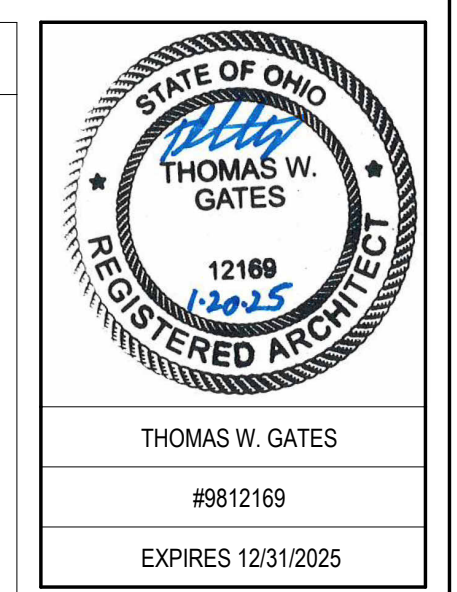
- VERIFY QUANTITIES AND SIZE OF ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION EQUIPMENT SHOWN ON THE REFLECTED CEILING PLANS WITH RESPECTIVE MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACT DRAWINGS AND SPECIFICATIONS.
- VERIFY ALL FINISHES WITH FINISH SCHEDULE. REPORT ANY DISCREPANCIES TO A/E PRIOR TO WORK.
- LOCATED ALL MECHANICAL AND ELECTRICAL FIXTURES WHICH EXIST IN CEILING AS CLOSE AS POSSIBLE TO THE CONFIGURATION SHOWN. THE INTENT IS TO PROVIDE A UNIFORM AND SYMMETRICAL LAYOUT WITHIN EACH ROOM OR SPACE. THESE LOCATIONS ARE SUBJECT TO FIELD VERIFICATION AND A/E APPROVAL.
- REFER TO FIRE PROTECTION PLANS FOR SPRINKLER HEAD LOCATIONS. LOCATE HEAD IN CENTER OF TILE EACH WAY, TYPICAL.
- PROVIDE METAL CEILING TRIM AT ALL INTERSECTION WITH VAC DUCTS, ELECTRICAL CONDUITS, AND ALL OTHER CEILING PENETRATIONS.
- PROVIDE METAL CEILING TRIM AT ALL COLUMN PENETRATIONS.
- ALL ACT CEILING TILE MIN. OF 6-INCHES WIDE AT EDGE OF ROOM.

**CODED NOTES**

1	EXISTING CEILING TO REMAIN.
2	PROVIDE LIGHTS. REFER TO MEPT DRAWINGS.
3	PROVIDE LIGHTS ON EMERGENCY CIRCUIT. REFER TO MEPT DRAWINGS.
4	SUPPLY AIR DIFFUSER. REFER TO MEPT DRAWINGS.
5	RETURN AIR REGISTER. REFER TO MEPT DRAWINGS.
6	PROVIDE 6" TRACK LIGHTING. REFER TO MEPT DRAWINGS.
7	PROVIDE MOUNTED EXIT SIGNS. REFER TO MEPT DRAWINGS.
8	PROVIDE CEILING MOUNTED CURTAIN TRACK. MOUNT TO GYP BULK HEAD. REFER TO DETAIL 3/A-111.
9	PROVIDE WET LIGHTS. REFER TO MEPT DRAWINGS.
10	PROVIDE FIRE ALARM HORN STROBE. REFER TO MEPT DRAWINGS.

**RCP SYMBOLS LEGEND**

	LAY-IN CEILING GRID (SEE ROOM FINISH SCHEDULE A-620)
	FLUORESCENT LIGHT FIXTURE IN GRID
	LIGHTING FIXTURE ON EMERGENCY CIRCUIT
	SUPPLY DIFFUSER
	RETURN DIFFUSER
	EXIT LIGHTING FIXTURE
	FIRE ALARM SPEAKER & SIGNAL LIGHT
	1i 1'-0" A.F.F. CEILING TAG WITH FINISH HEIGHT



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**ENLARGED LOWER LEVEL FLOOR REFLECTED CEILING PLANS**

SCALE: As indicated

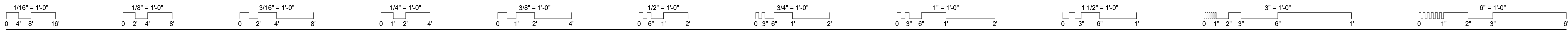
**A-111**

JOB NO.: 24011  
DATE: 1/20/2025

**1 ENLARGED RCP - ROOMS 0022A, 0022B & 0023**

1/4" = 1'-0"





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EXPIRES 12/31/2025

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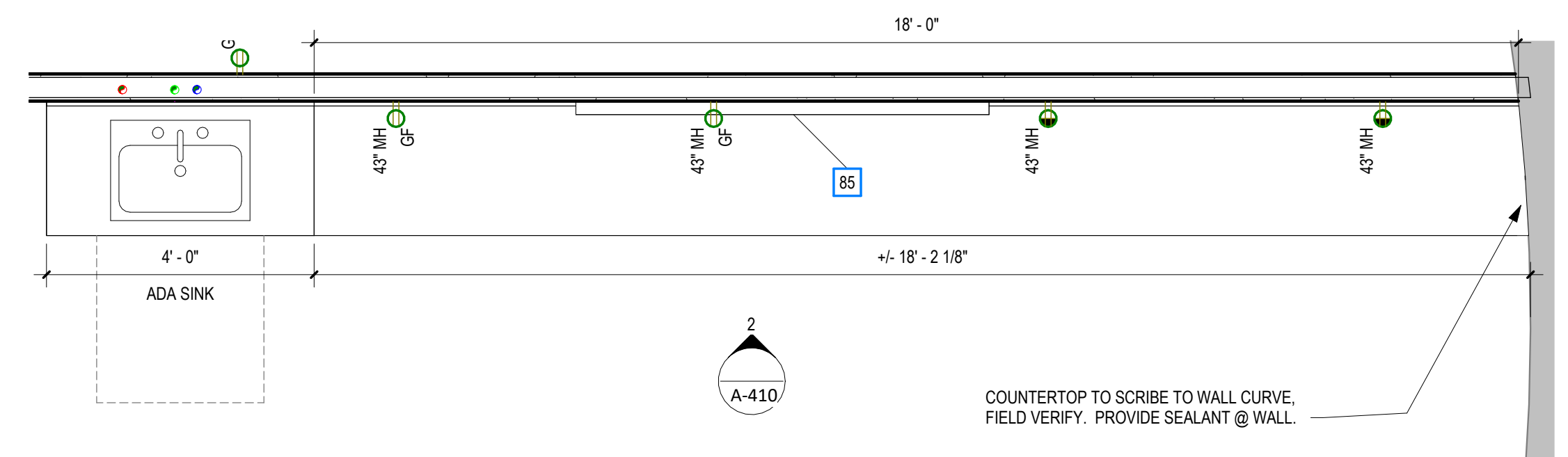
**ENLARGED CASEWORK, ELEVATIONS, & SECTIONS**

SCALE: As indicated

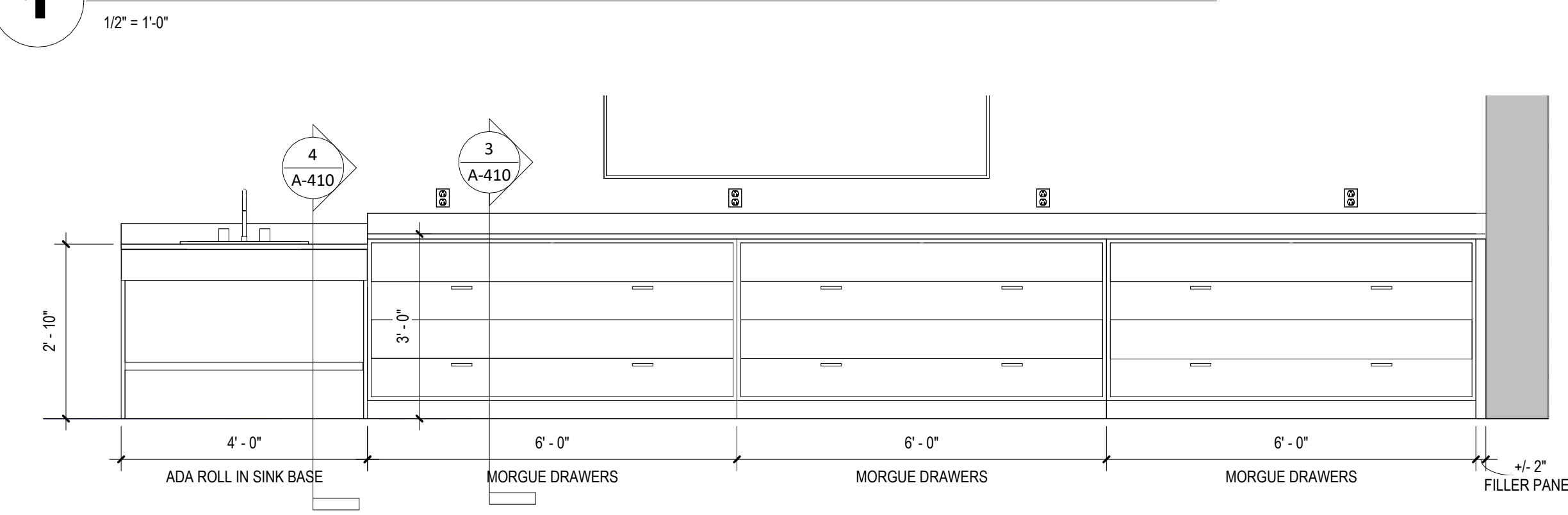
**A-410**

JOB NO.: 24011

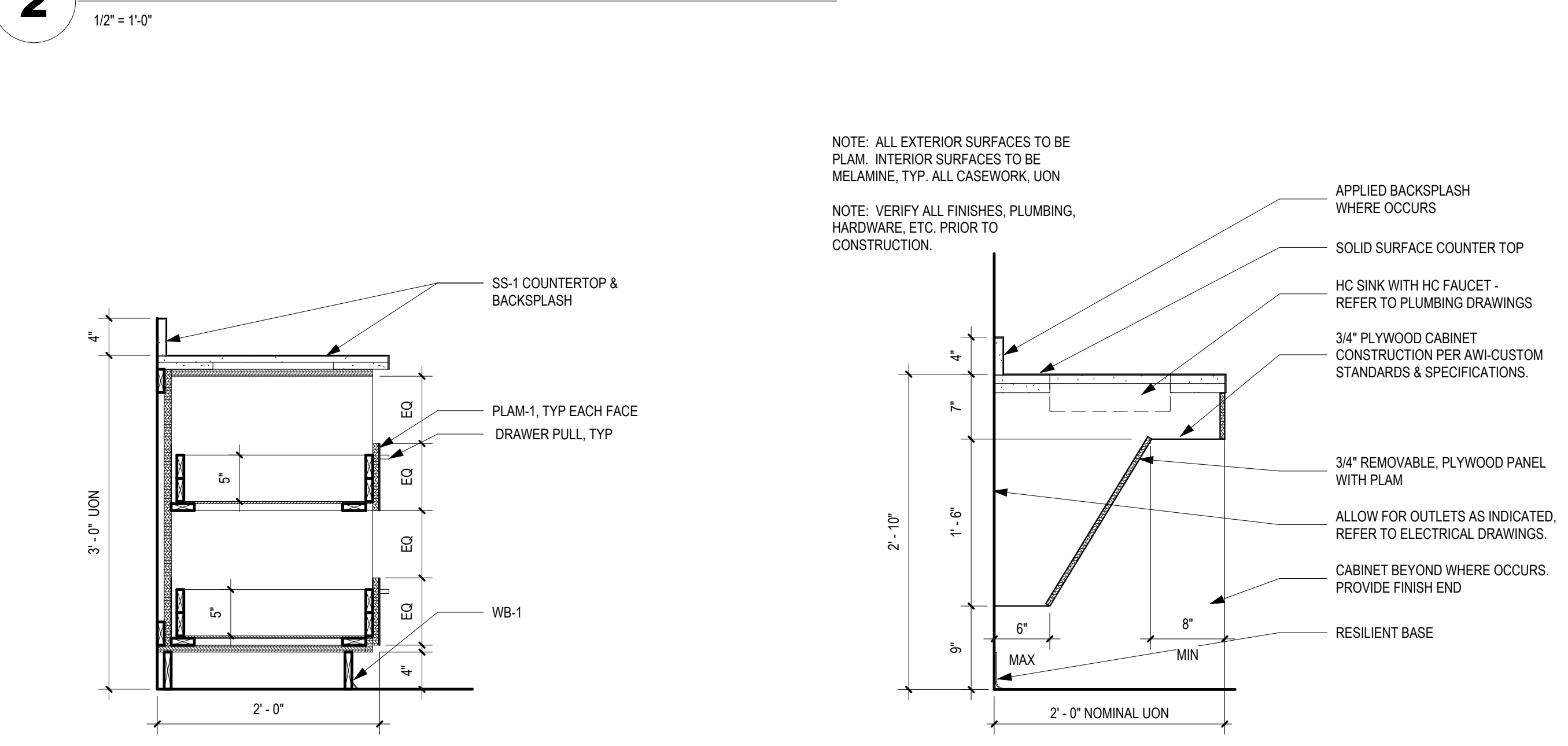
DATE: 1/20/2025



**1 ENLARGED PLAN - CASEWORK @ SIMULATION LAB**



**2 ELEV - CASEWORK @ SIMULATION LAB**



**3 DET- TYP BASE CABINET**

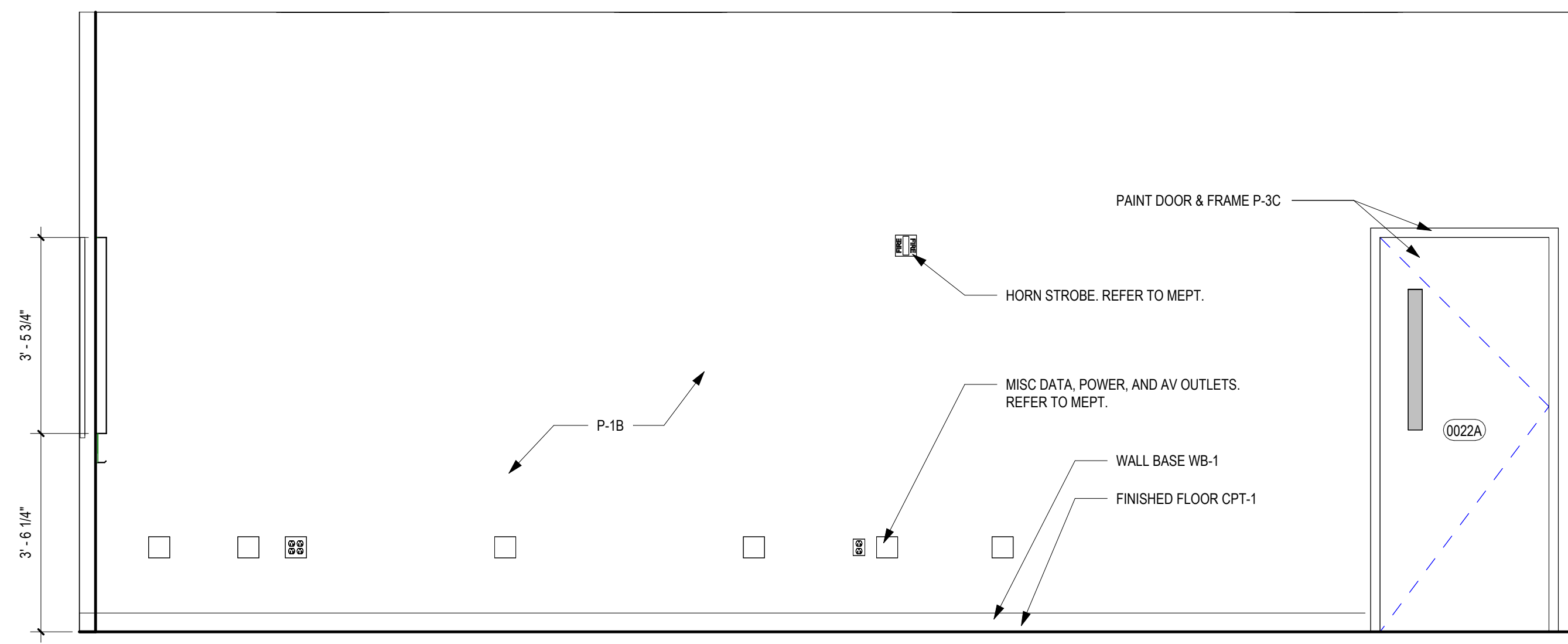
**4 DET- TYP ADA SINK BASE**

NOTE: ALL EXTERIOR SURFACES TO BE PLAM. INTERIOR SURFACES TO BE MELAMINE, TYP. ALL CASEWORK, UON  
NOTE: VERIFY ALL FINISHES, PLUMBING, HARDWARE, ETC. PRIOR TO CONSTRUCTION.

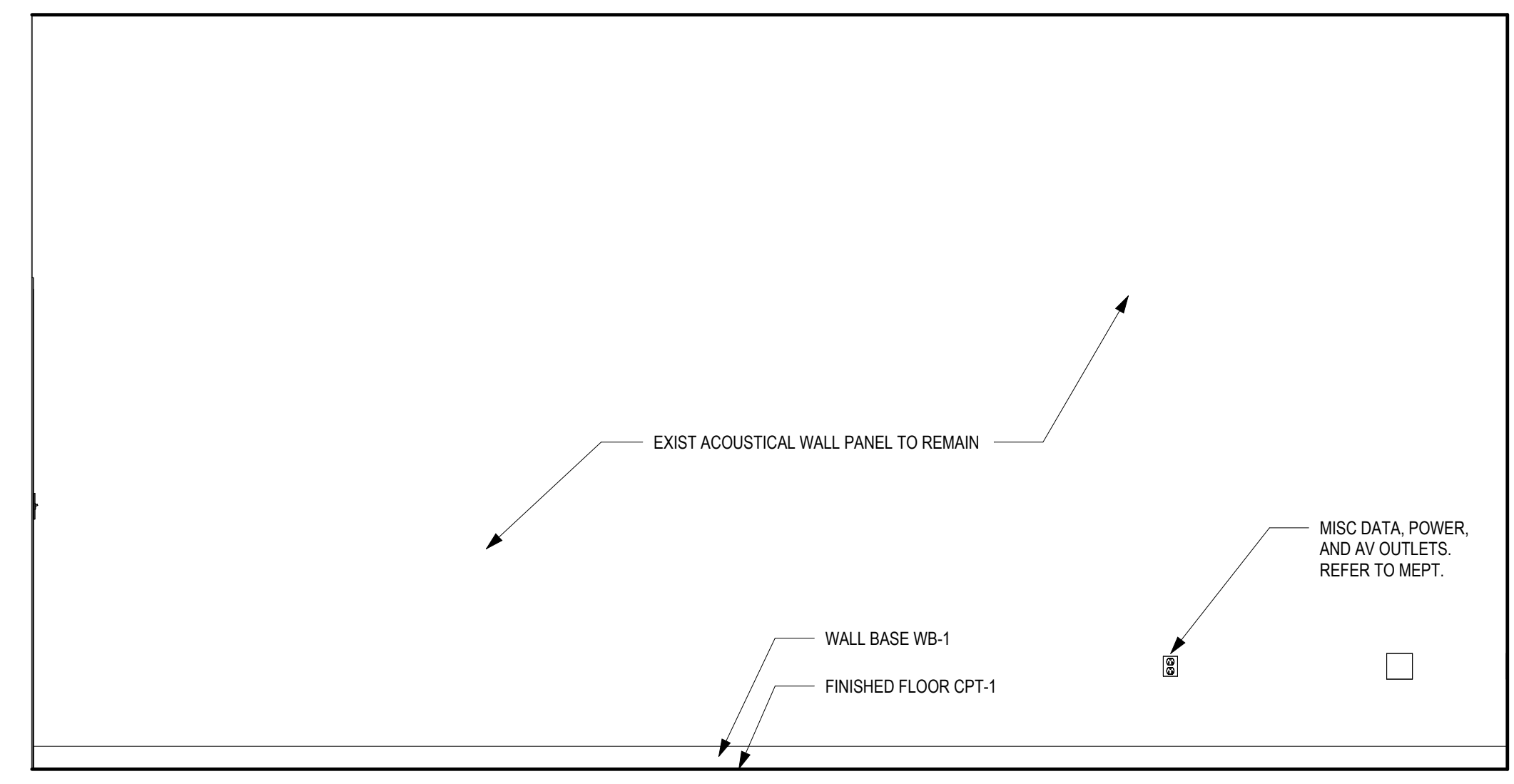
- APPLIED BACKSPLASH WHERE OCCURS
- SOLID SURFACE COUNTER TOP
- HC SINK WITH HC FAUCET - REFER TO PLUMBING DRAWINGS
- 3/4\"/>

1\"/>

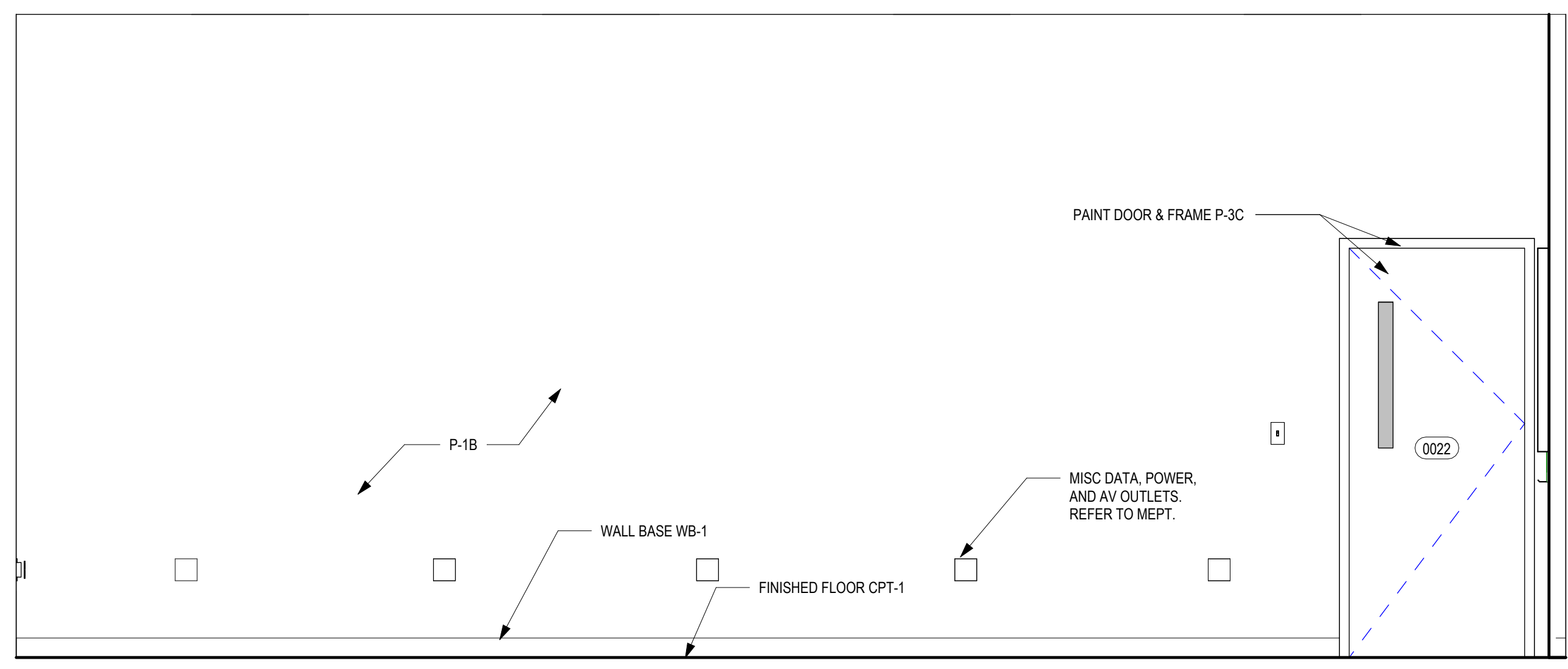
1\"/>



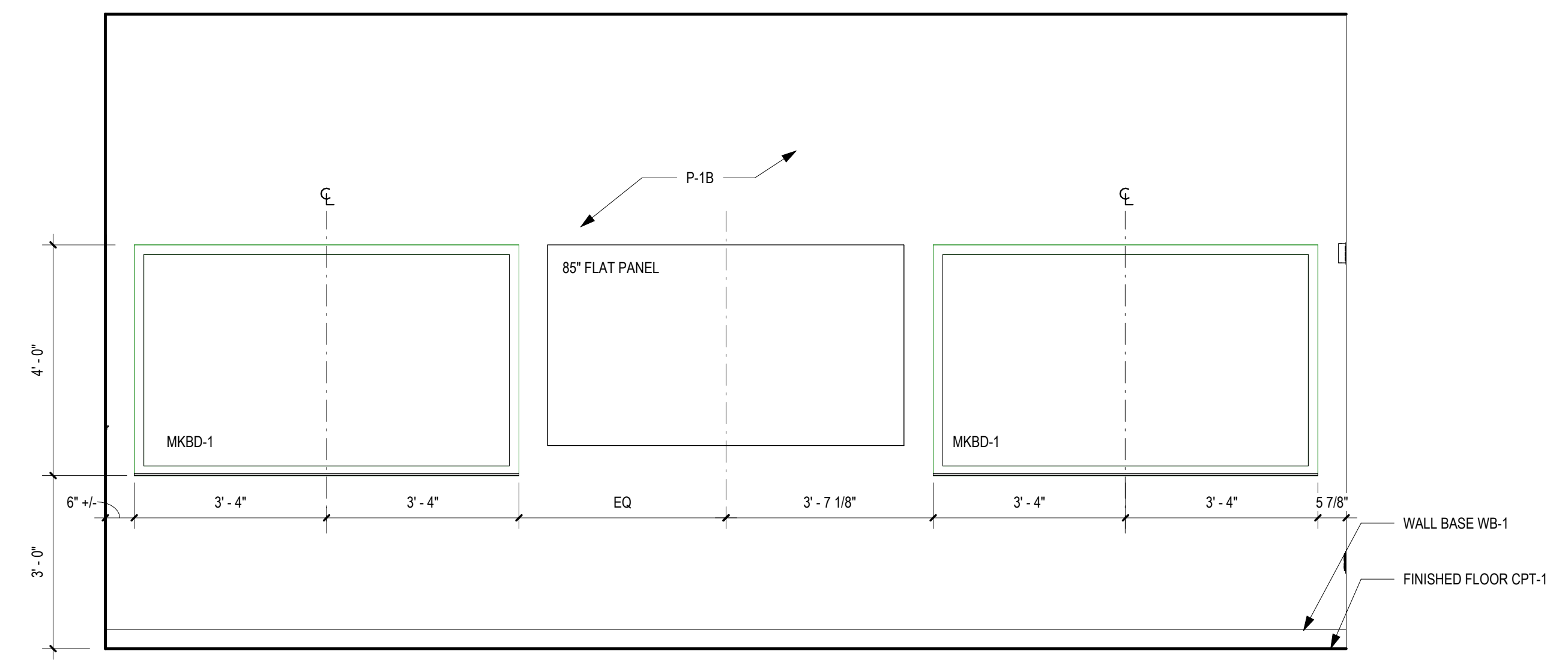
**1** ELEV - LECTURE HALL 0022A & 0022B - NORTH  
1/2" = 1'-0"



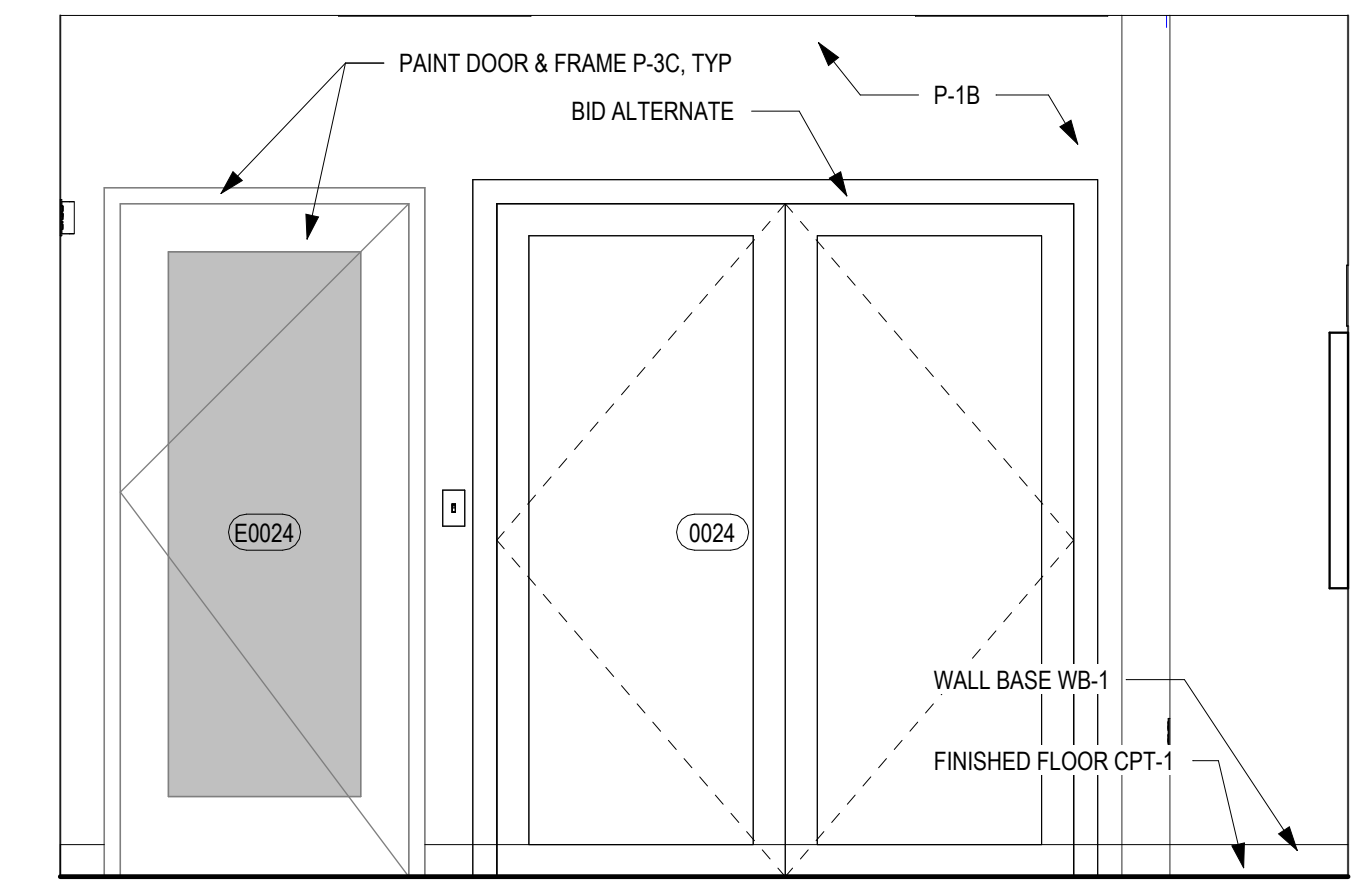
**2** ELEV - LECTURE HALL 022A & 002B - EAST  
1/2" = 1'-0"



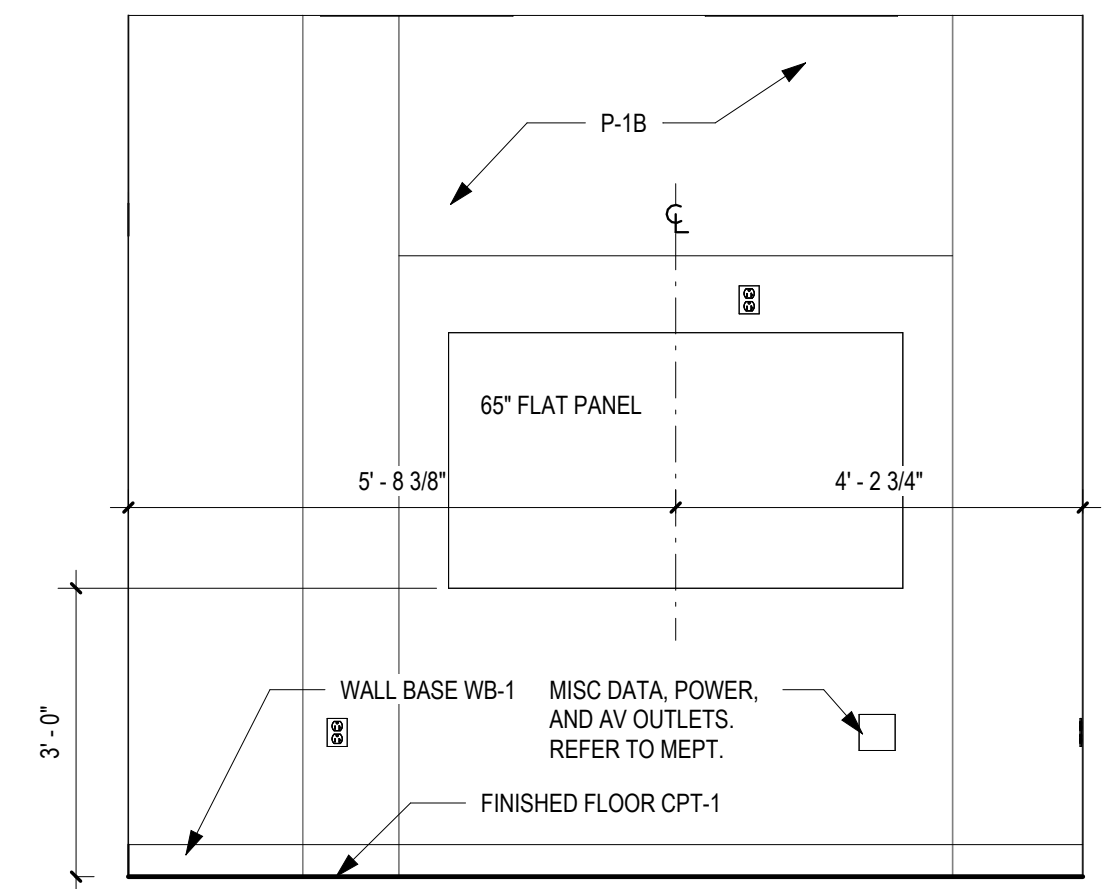
**3** ELEV - LECTURE HALL 0022A & 002B - SOUTH  
1/2" = 1'-0"



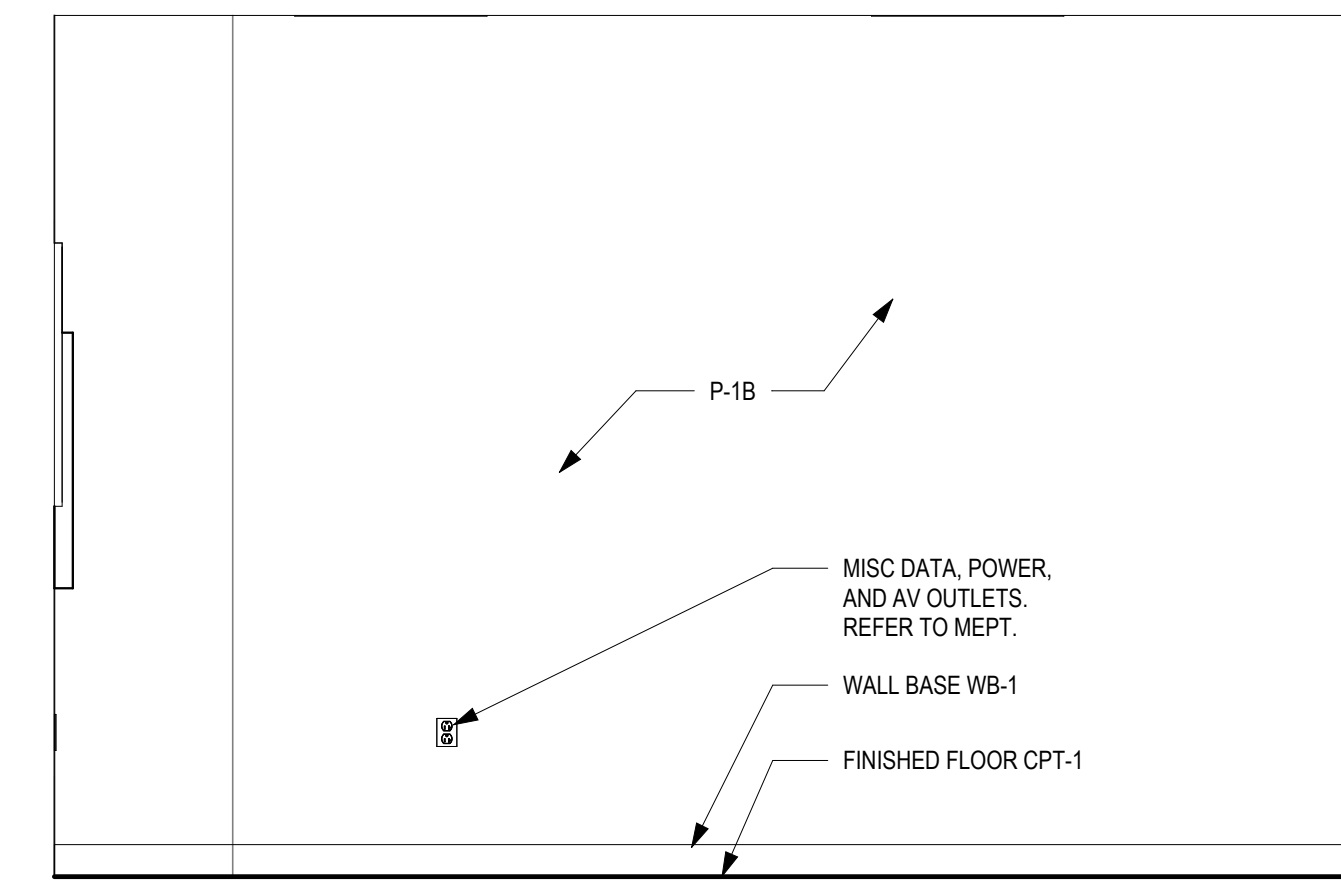
**4** ELEV - LECTURE HALL 022A & 0022B - WEST  
1/2" = 1'-0"



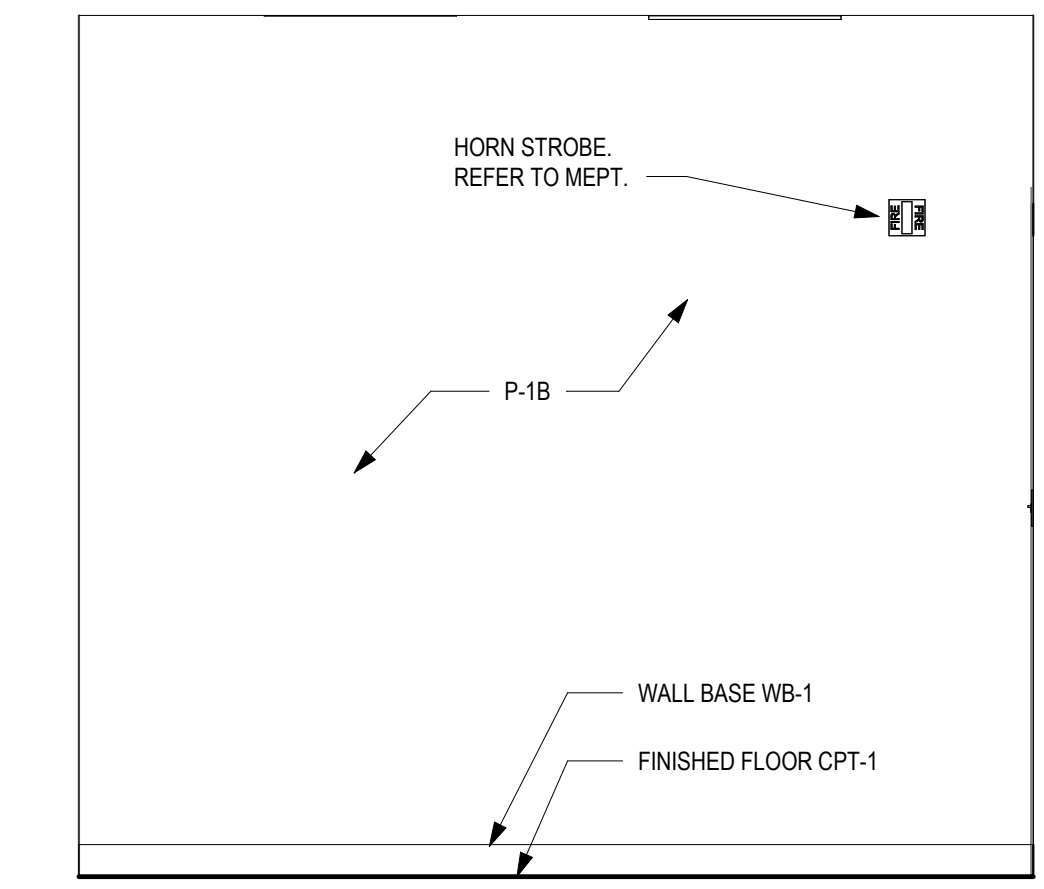
**5** ELEV - CONF 00224 - NORTH  
1/2" = 1'-0"



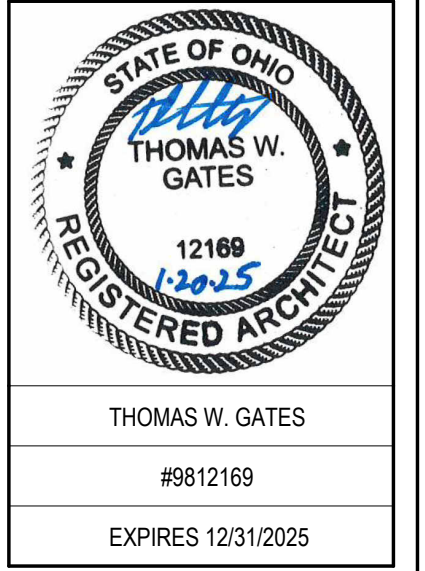
**6** ELEV - CONF 0024 - EAST  
1/2" = 1'-0"



**7** ELEV - CONF 0024 - SOUTH  
1/2" = 1'-0"



**8** ELEV - CONF 0024 - WEST  
1/2" = 1'-0"



**SPGB Architects**  
4333-A TULLER ROAD  
DUBLIN, OHIO 43017  
PHONE: (614) 771-8963

DESIGNED BY: CW/OZ  
DRAWN BY: CW/OZ  
CHECKED BY: TG

DATE:				
REVISIONS:				

**EMS Classrooms & Sim Lab Bldg. 14**  
Sinclair College  
444 West 3RD Street  
Dublin, OH 43002

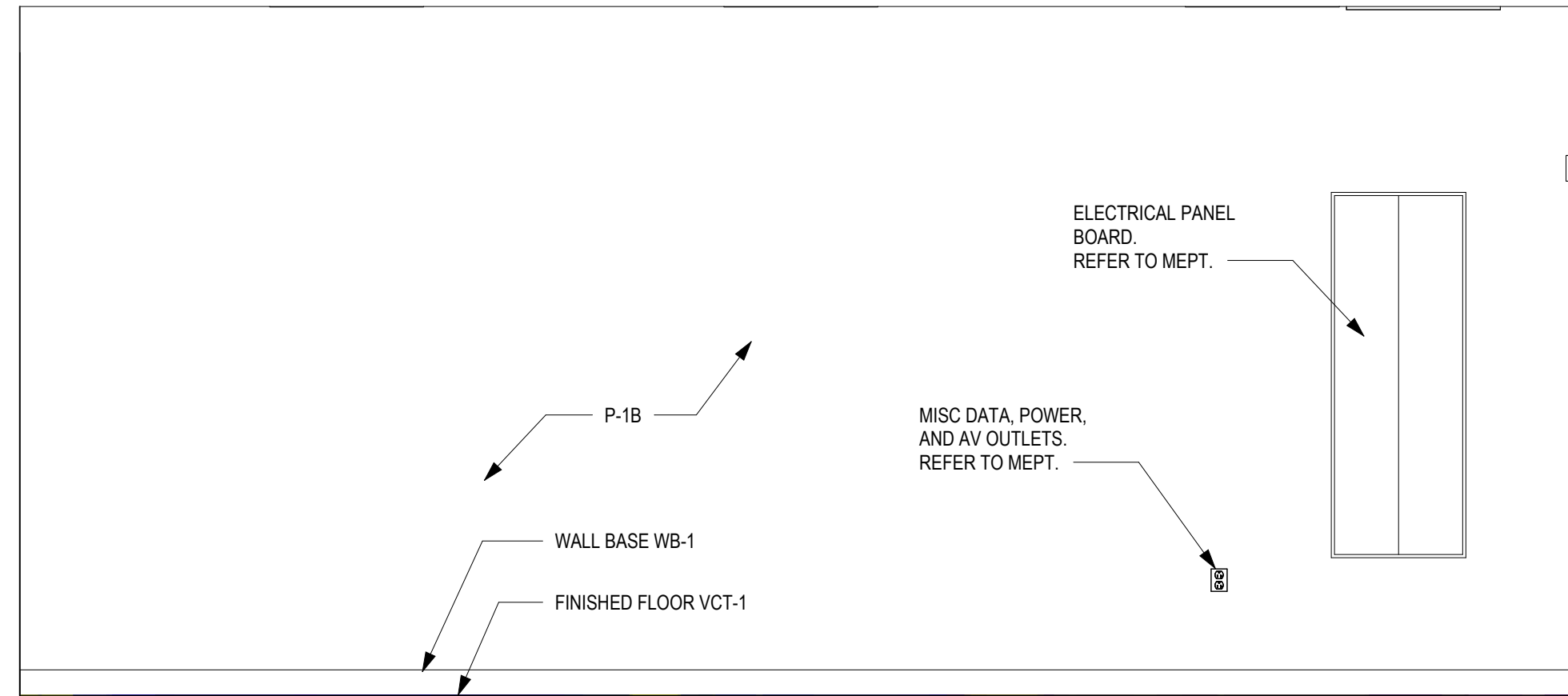
**LOWER LEVEL INTERIOR ELEVATIONS**

SCALE: 1/2" = 1'-0"

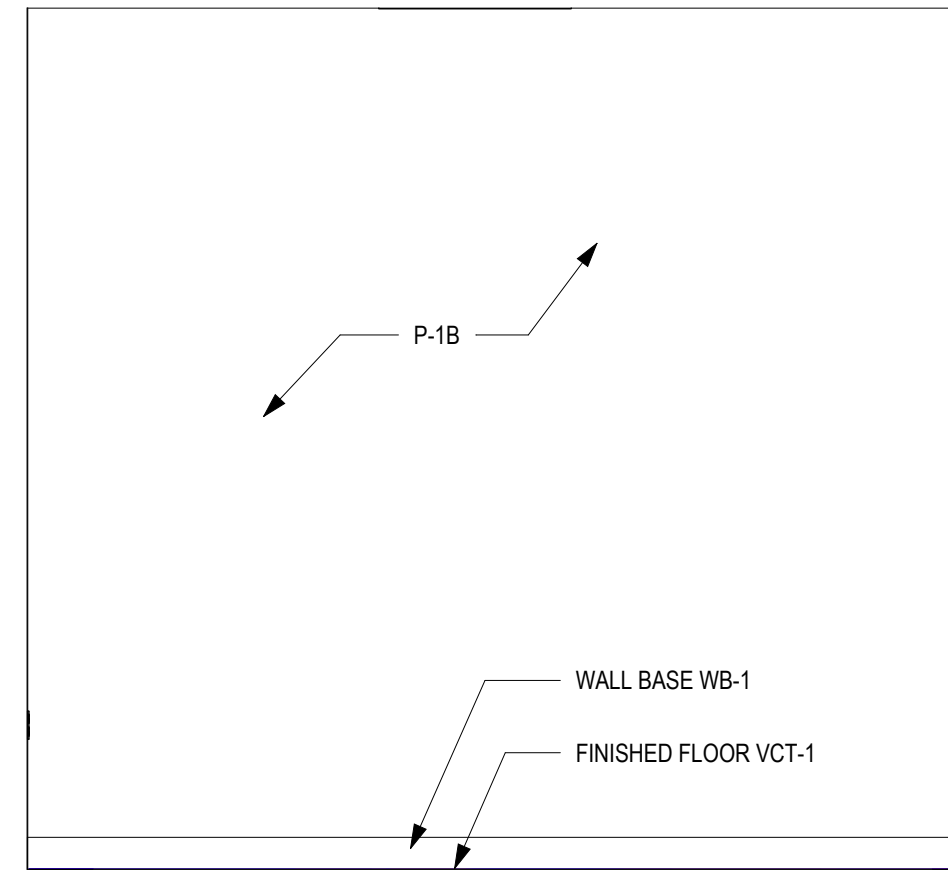
**A-411**

JOB NO.: 24011  
DATE: 1/20/2025

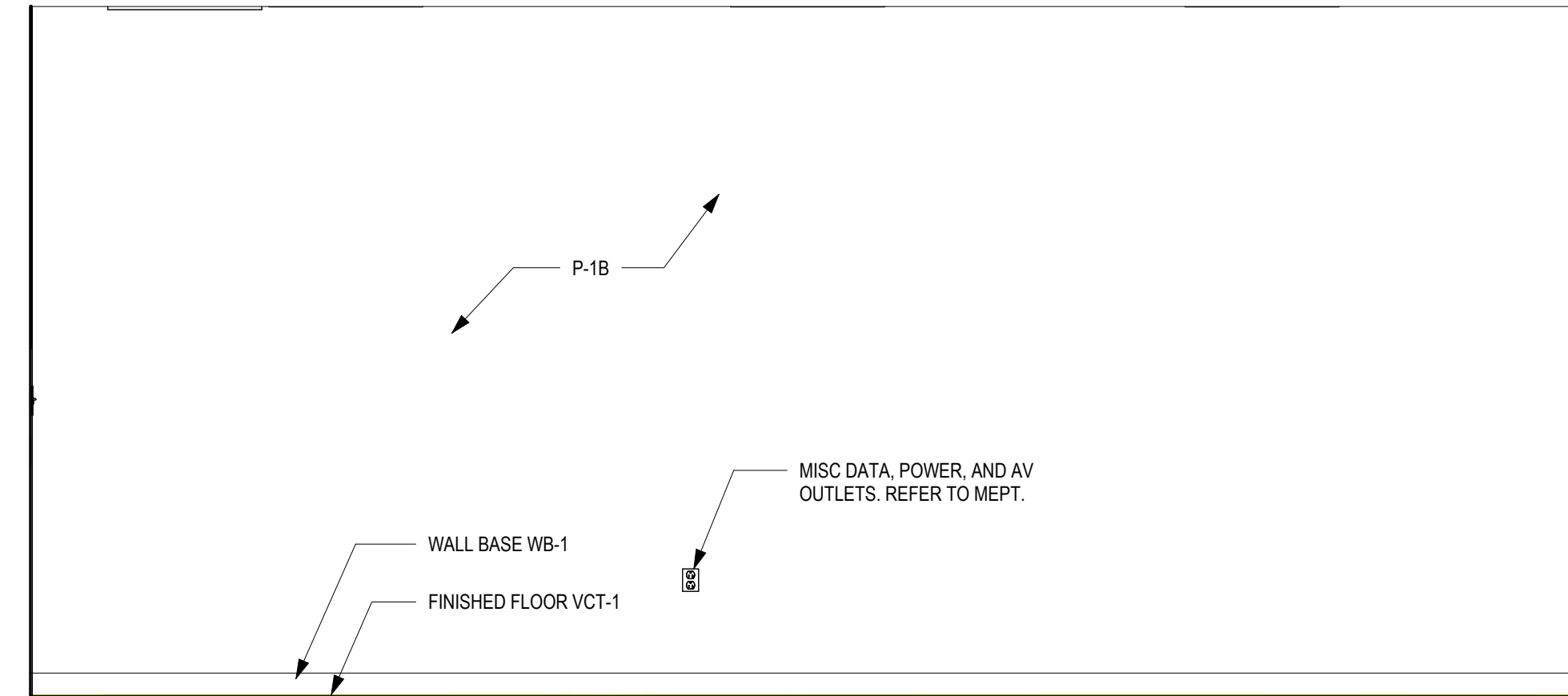




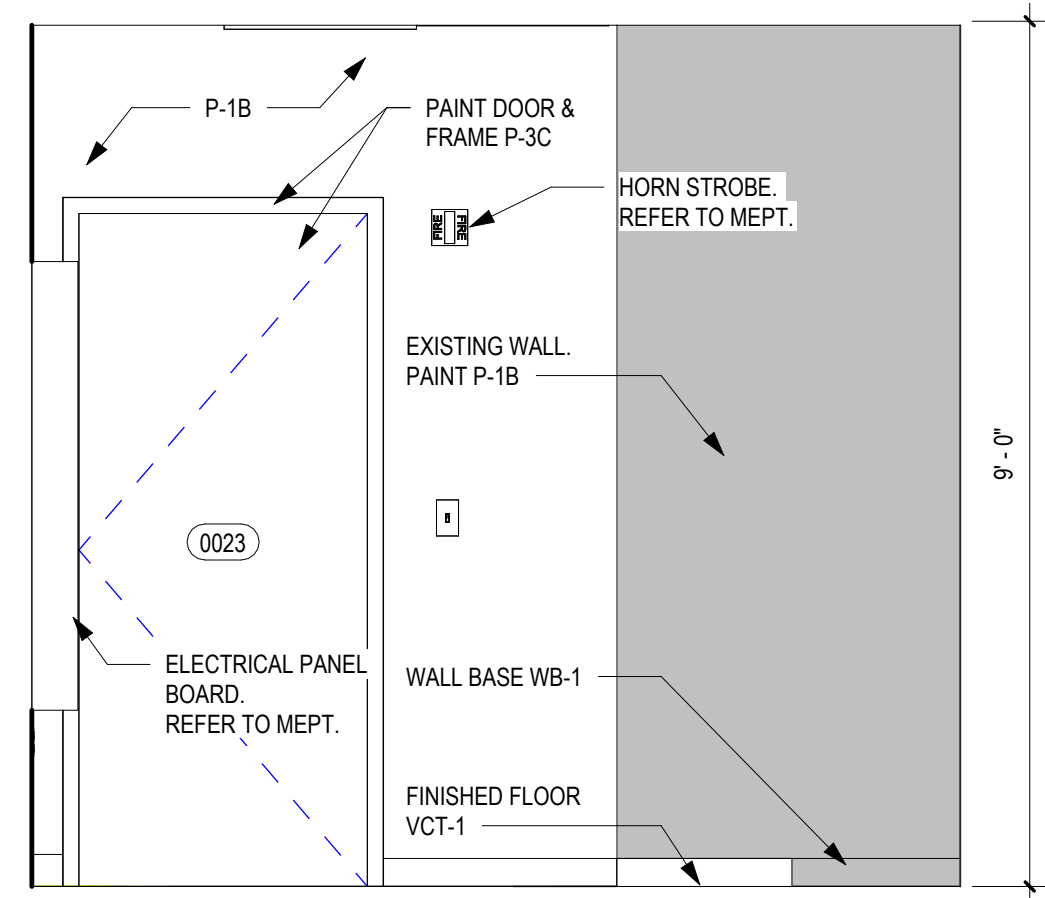
**1** ELEV - STORAGE 00223 - NORTH  
1/2" = 1'-0"



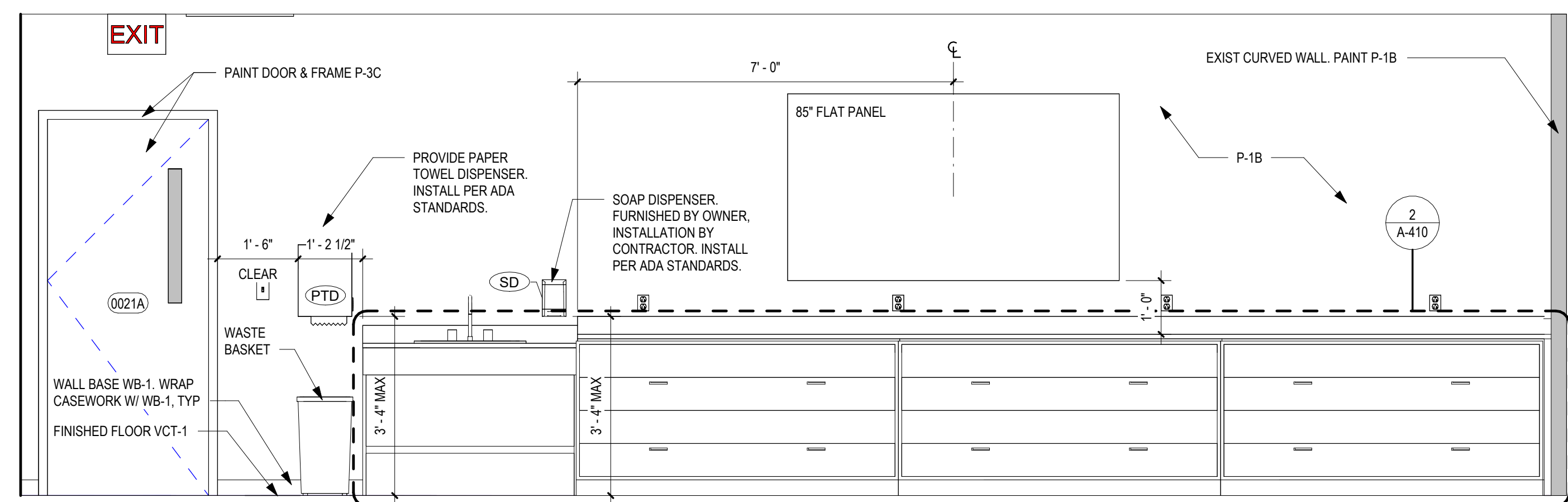
**3** ELEV - STOR. 0023 - EAST  
1/2" = 1'-0"



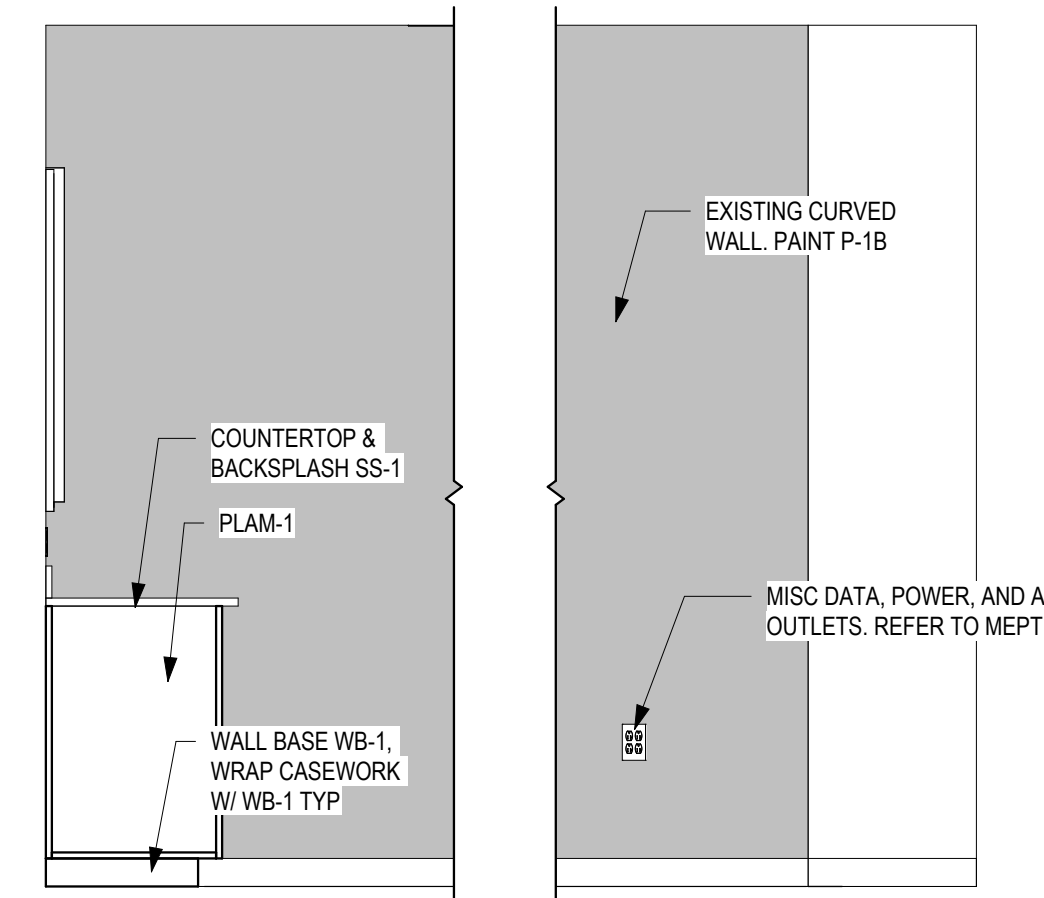
**2** ELEV - STORAGE 0223 - SOUTH  
1/2" = 1'-0"



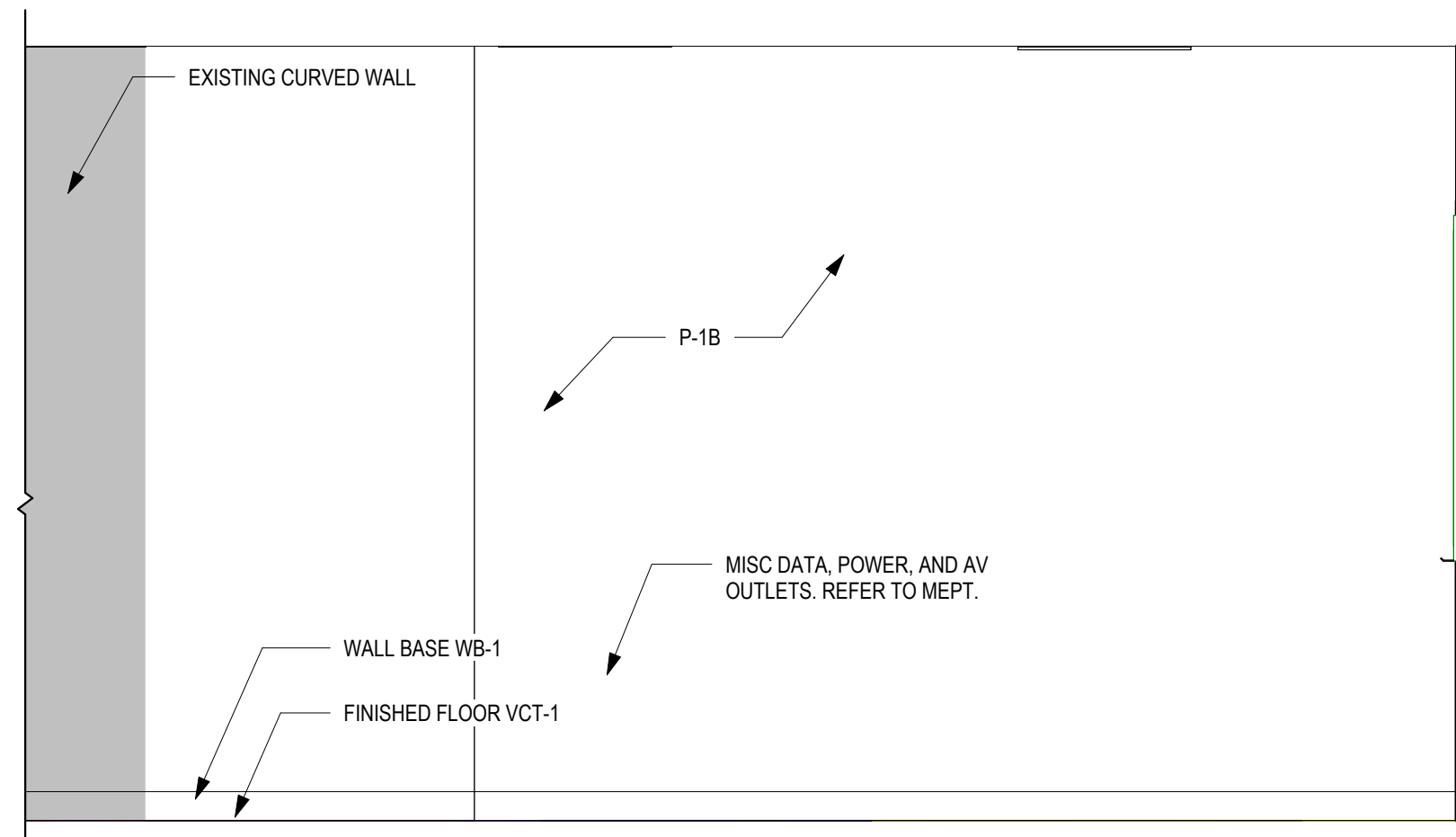
**4** ELEV - STOR. 0023 - WEST  
1/2" = 1'-0"



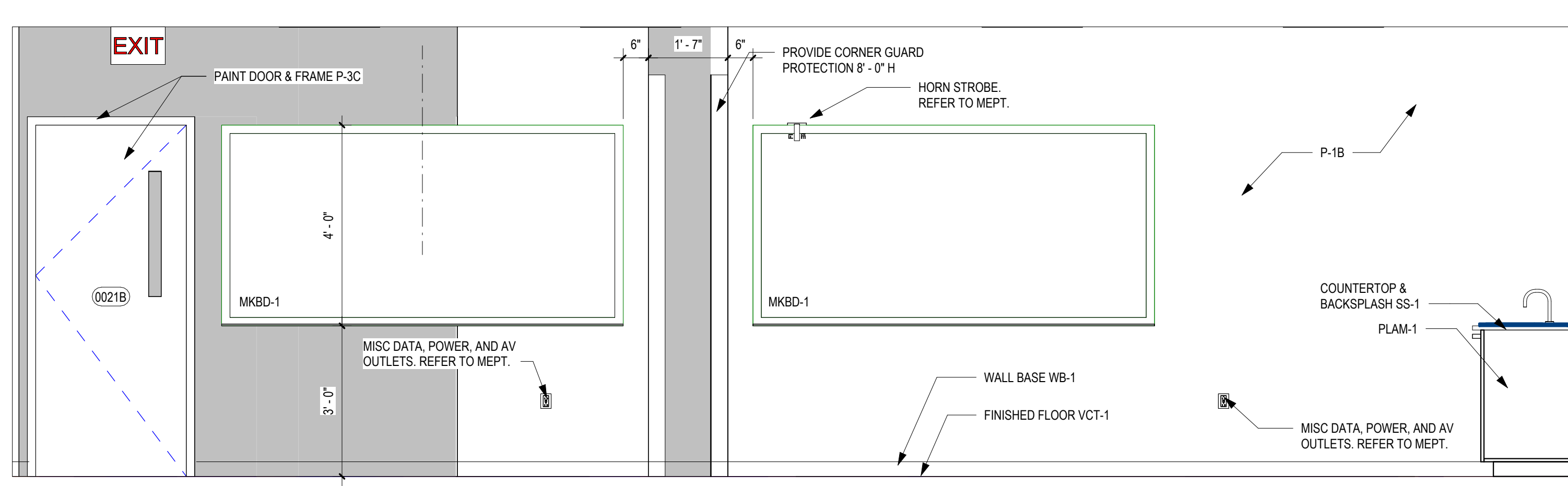
**5** ELEV - ROOM 0021 - NORTH  
1/2" = 1'-0"



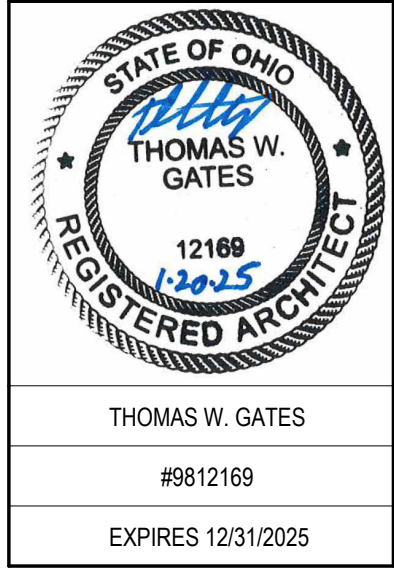
**6** ELEV - ROOM 0021 - EAST  
1/2" = 1'-0"



**7** ELEV - ROOM 0021 - SOUTH  
1/2" = 1'-0"



**8** ELEV - ROOM 0021 - WEST  
1/2" = 1'-0"



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DUBLIN, OHIO 43017  
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DESIGNED BY: CW/OZ  
DRAWN BY: CW/OZ  
CHECKED BY: TG

DATE:				

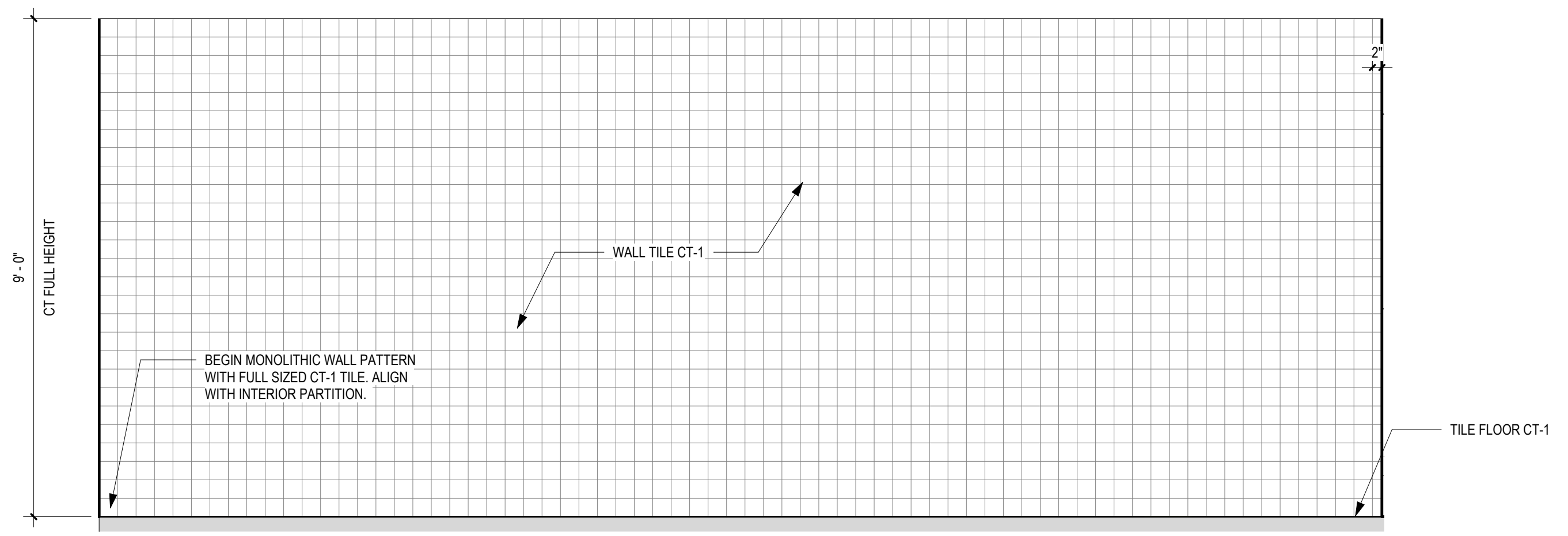
**EMS Classrooms & Sim Lab Bldg. 14**  
Sinclair College  
444 West 3RD Street  
Dublin, OH 43017

**LOWER LEVEL INTERIOR ELEVATIONS CONT.**

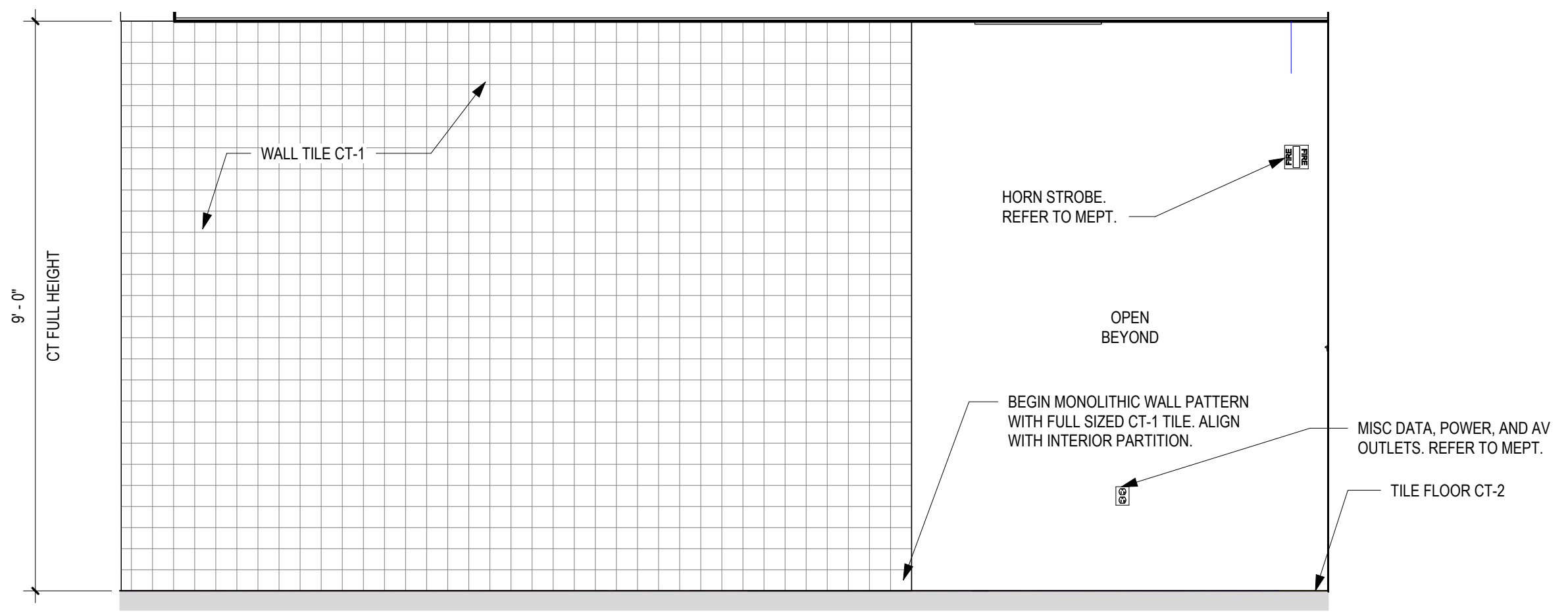
SCALE: 1/2" = 1'-0"

**A-412**

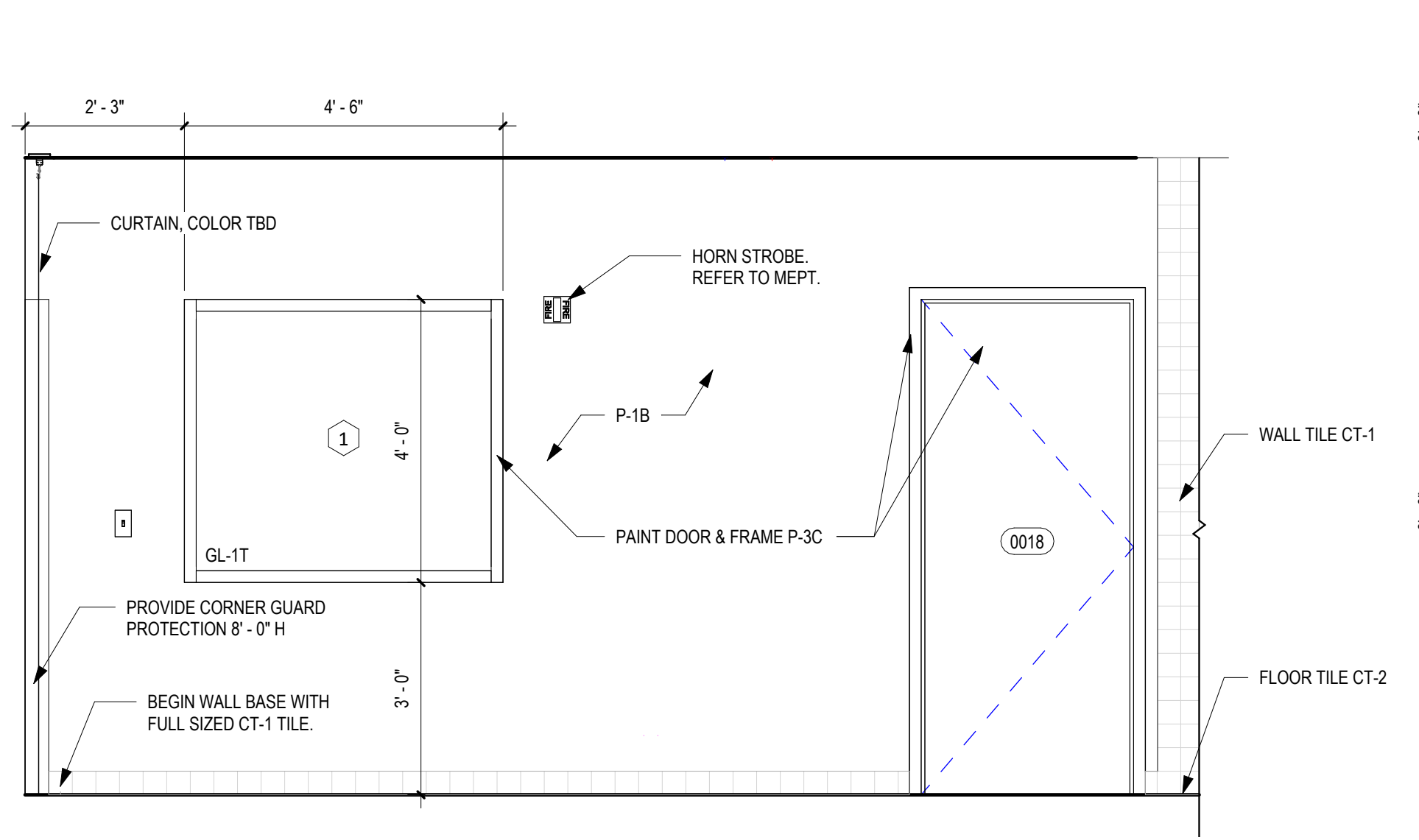
JOB NO.: 24011  
DATE: 1/20/2025



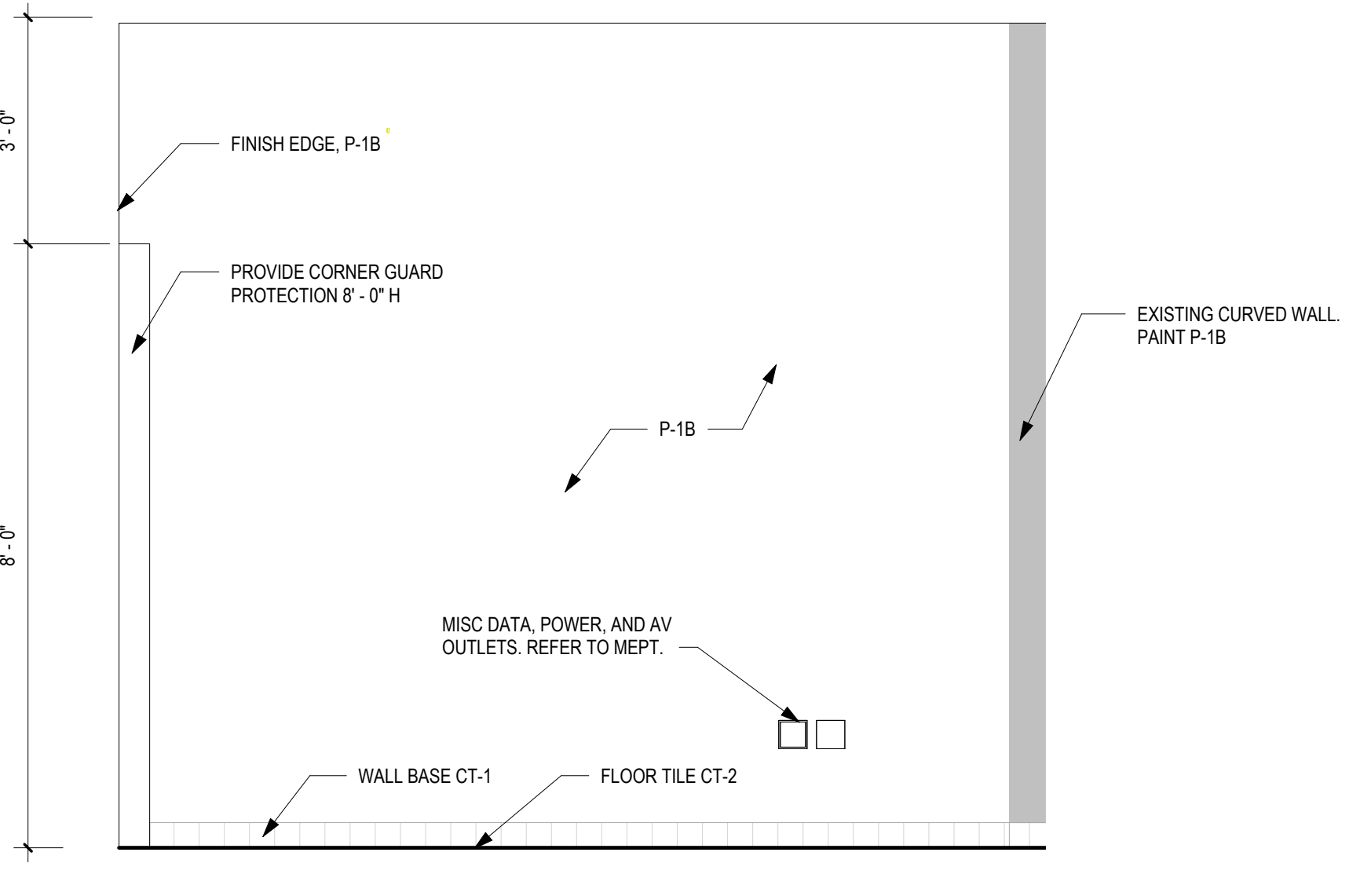
**1** ELEV - WASH DOWN AREA 0019 - NORTH/EAST  
1/2" = 1'-0"



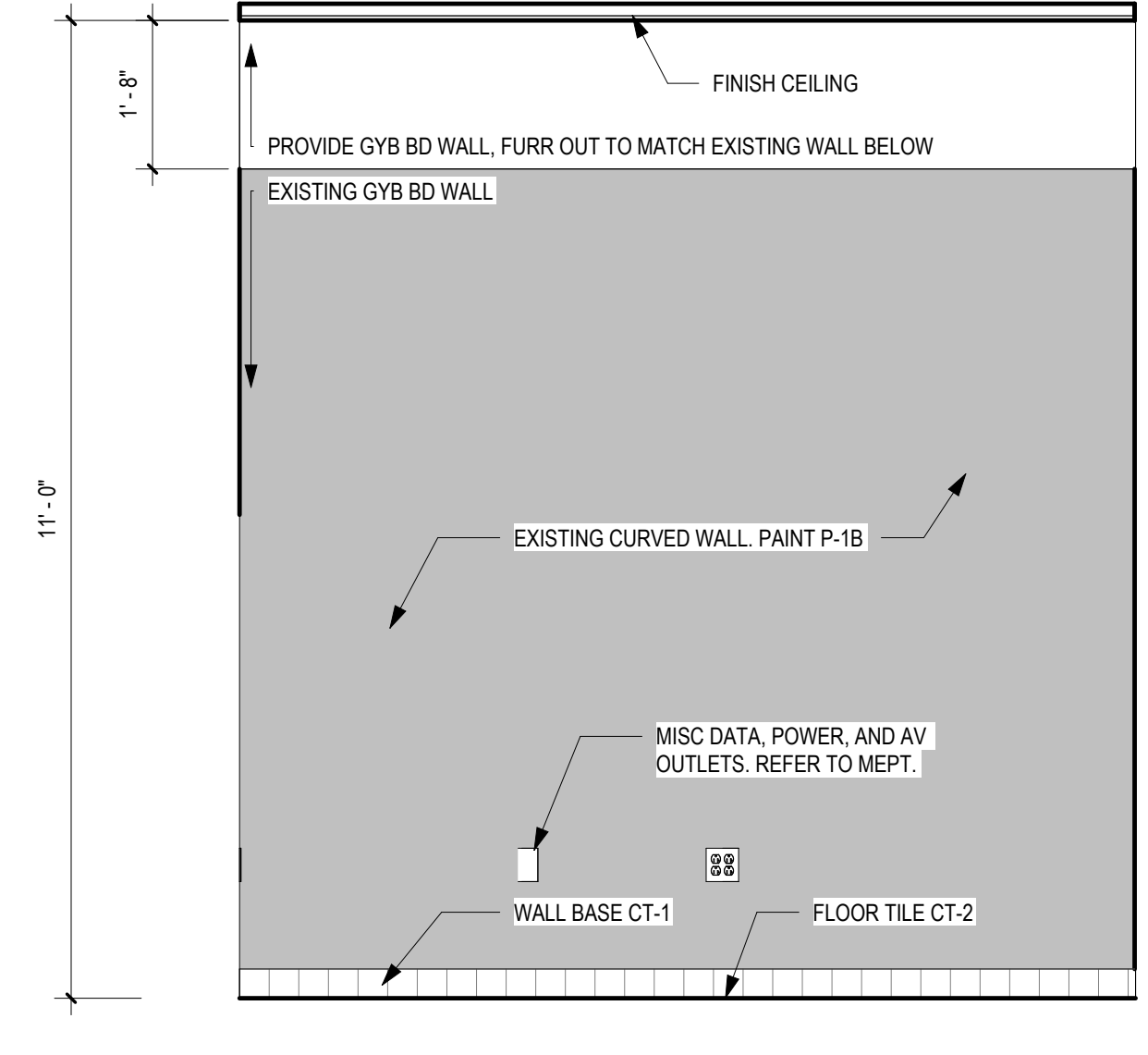
**2** ELEV - WASH DOWN AREA 0019 - SOUTH  
1/2" = 1'-0"



**3** ELEV - WASH DOWN AREA 0019 - WEST  
1/2" = 1'-0"



**4** ELEV - AMB. SIM. 0020 - NORTH & SOUTH  
1/2" = 1'-0"



**5** ELEV - AMB. SIM. 0020 - EAST  
1/2" = 1'-0"

STATE OF OHIO  
THOMAS W. GATES  
REGISTERED ARCHITECT  
12169  
12025

THOMAS W. GATES  
#9812169  
EXPIRES 12/31/2025

SPGB Architects  
4333-A TULLER ROAD  
DUBLIN, OHIO 43017  
PHONE: (614) 771-8963

DESIGNED BY: CW/OZ  
DRAWN BY: CW/OZ  
CHECKED BY: TG

DATE:	REVISIONS:

EMS Classrooms & Sim Lab Bldg. 14  
Sinclair College  
444 West 3RD Street  
Canton, OH 45402

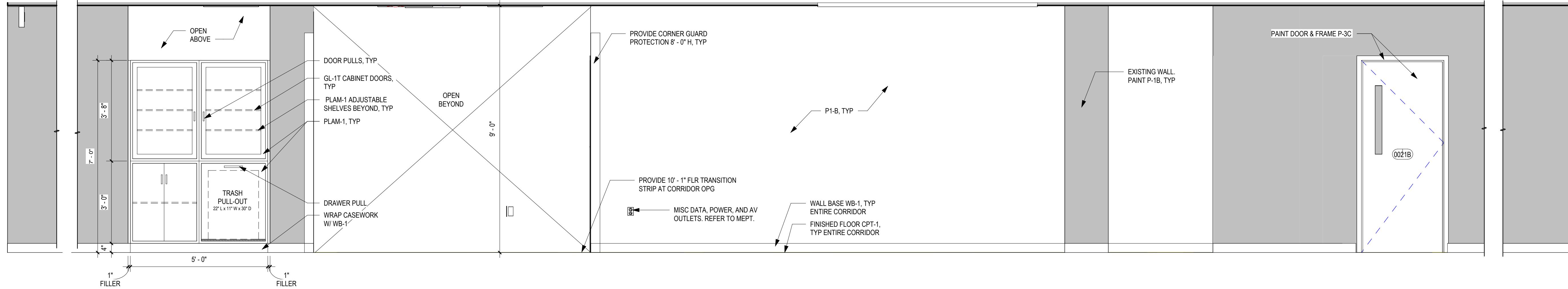
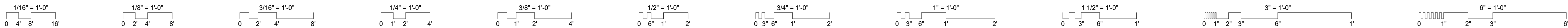
LOWER LEVEL  
INTERIOR  
ELEVATIONS CONT.

SCALE: 1/2" = 1'-0"

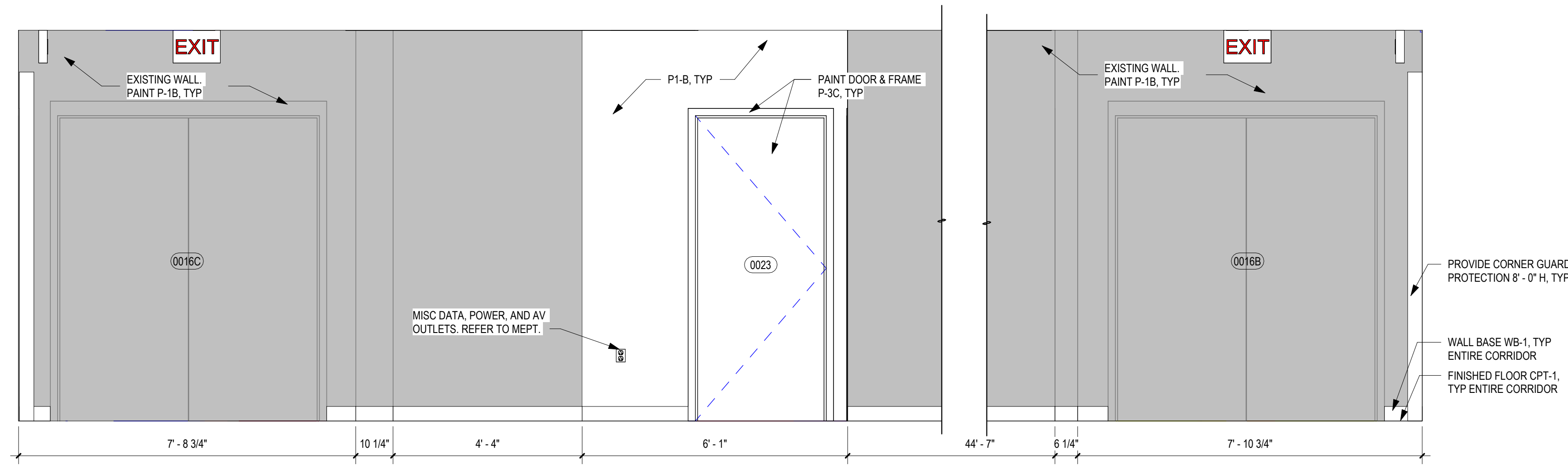
**A-413**

JOB NO.: 24011  
DATE: 1/20/2025

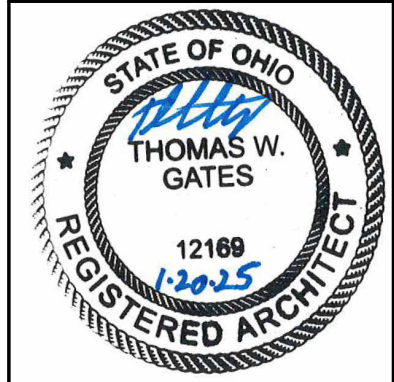




**1** ELEV - INTERNAL CORRIDOR 0016 - EAST  
1/2" = 1'-0"



**2** ELEV - INTERNAL CORRIDOR 0016 - WEST  
1/2" = 1'-0"



THOMAS W. GATES  
#9812169  
EXPIRES 12/31/2025

**SPGB Architects**  
4333-A TULLER ROAD  
DUBLIN, OHIO 43017  
PHONE: (614) 771-8963

DESIGNED BY: CW/OZ  
DRAWN BY: CW/OZ  
CHECKED BY: TG

DATE:				

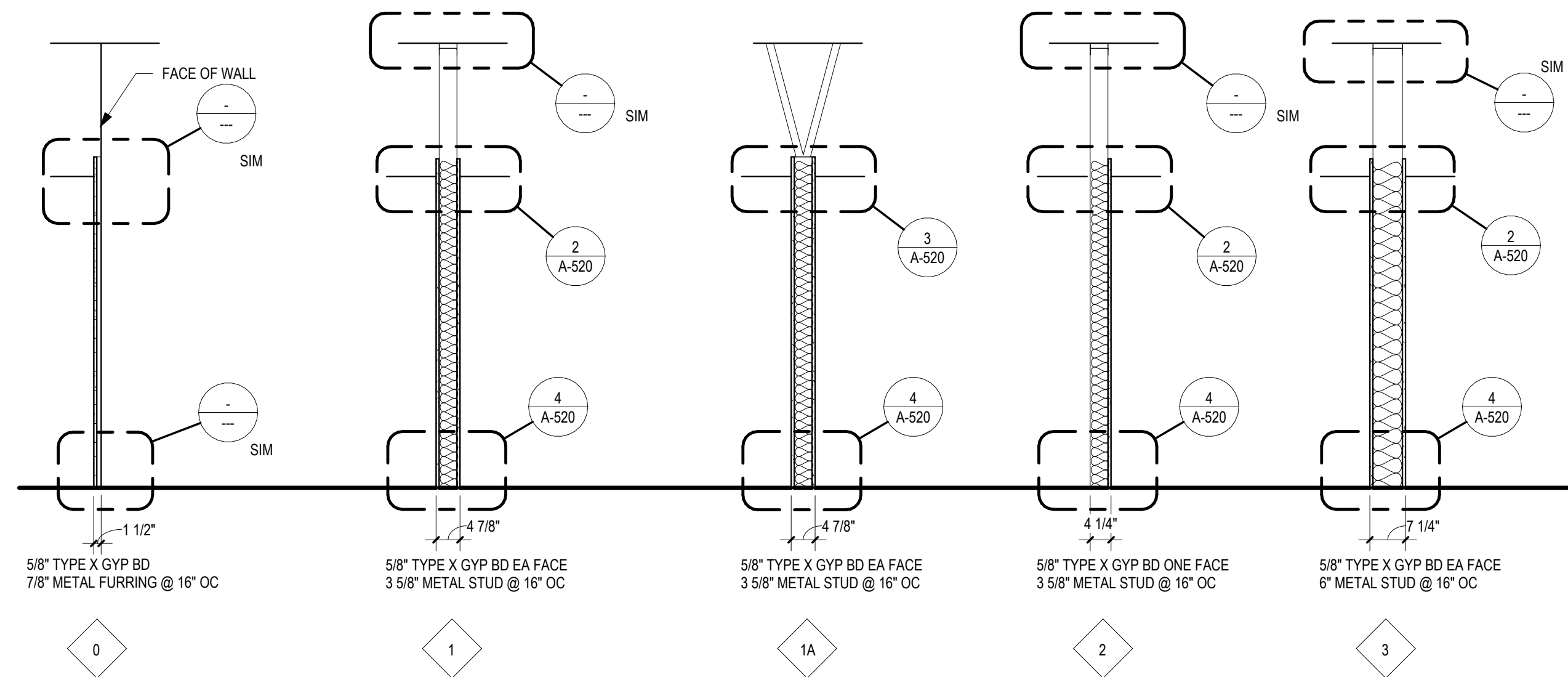
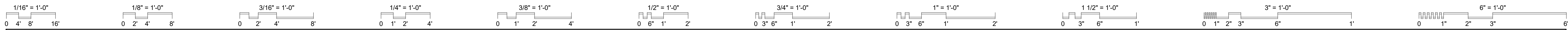
**EMS Classrooms & Sim Lab Bldg. 14**  
**Sinclair College**  
444 West 3RD Street  
Dublin, OH 43017

**LOWER LEVEL INTERIOR ELEVATIONS CONT.**

SCALE: 1/2" = 1'-0"

**A-414**

JOB NO.: 24011  
DATE: 1/20/2025



**GENERAL NOTES**

A. METAL STUDS ARE 20 GA NON-EMBOSSED STUDS UON.

B. GYPSUM BOARD TO BE CHANGED TO CEMENT BACKER BOARD BEHIND TILE WALL FINISH AS INDICATED IN THE FINISH SCHEDULE.

C. METAL STUD PARTITIONS LOCATED WITHIN AREA OF EXISTING RAISED FLOOR SYSTEM TO EXTEND TO CONCRETE SLAB BELOW. RAISED FLOOR TO BE MODIFIED IN AREAS OF NEW PARTITIONS. CONTRACTOR TO PROVIDE ALL RAISED FLOOR MATERIALS FOR MODIFICATIONS COMPATIBLE WITH EXISTING SYSTEM.

STATE OF OHIO  
 THOMAS W. GATES  
 12169  
 12/25  
 REGISTERED ARCHITECT

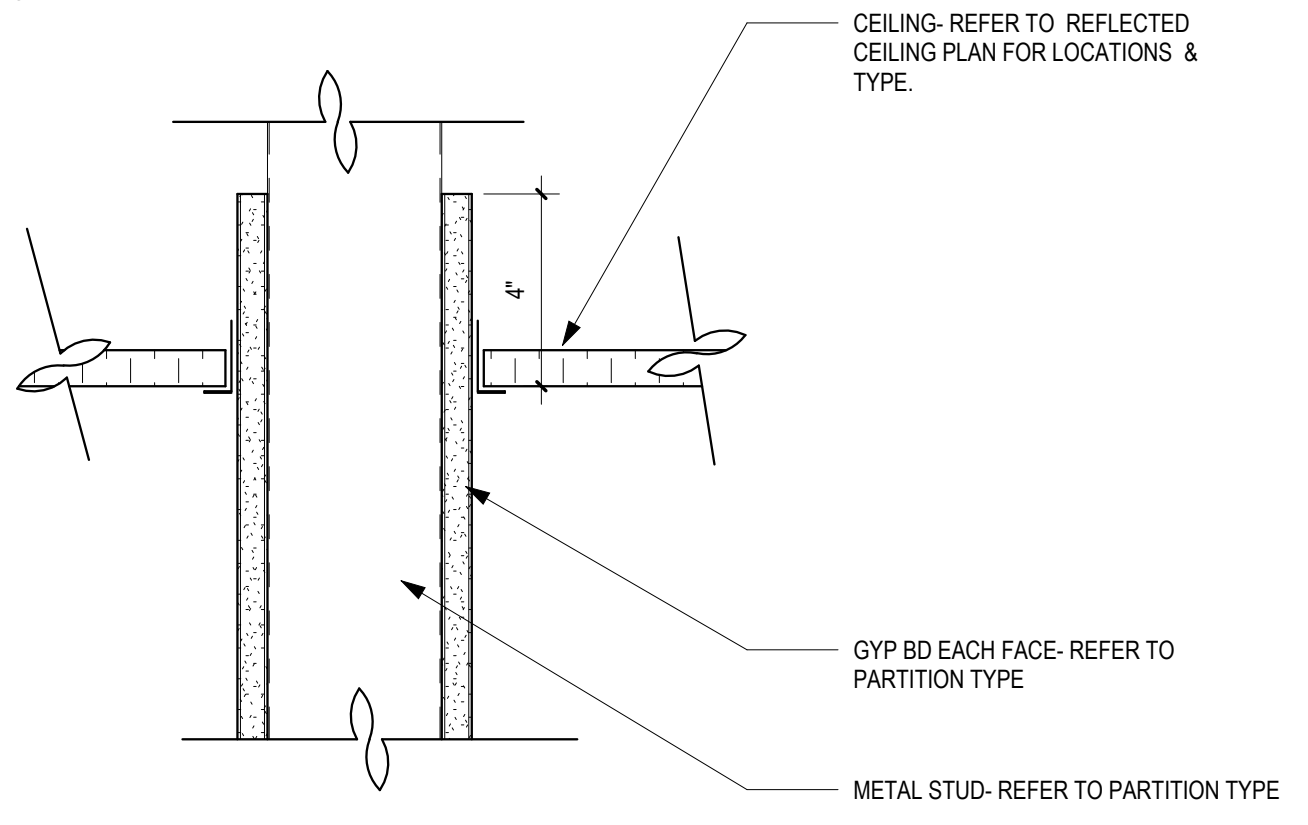
THOMAS W. GATES  
 #9812169  
 EXPIRES 12/31/2025

**SPGB Architects**  
 4333-A TULLER ROAD  
 DUBLIN, OHIO 43017  
 PHONE: (614) 771-8963

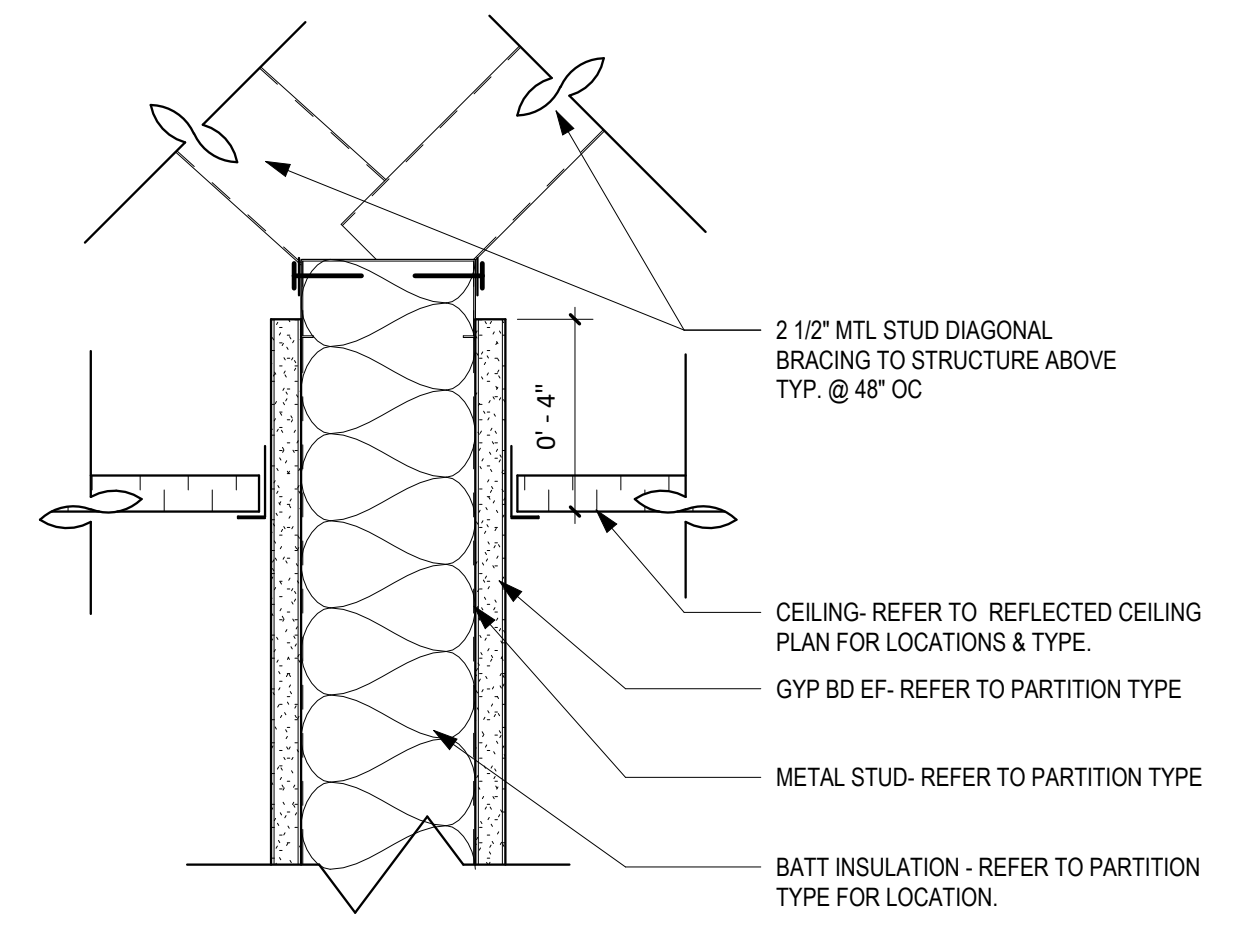
DESIGNED BY: CW/OZ  
 DRAWN BY: CW/OZ  
 CHECKED BY: TG

DATE:				
REVISIONS:				

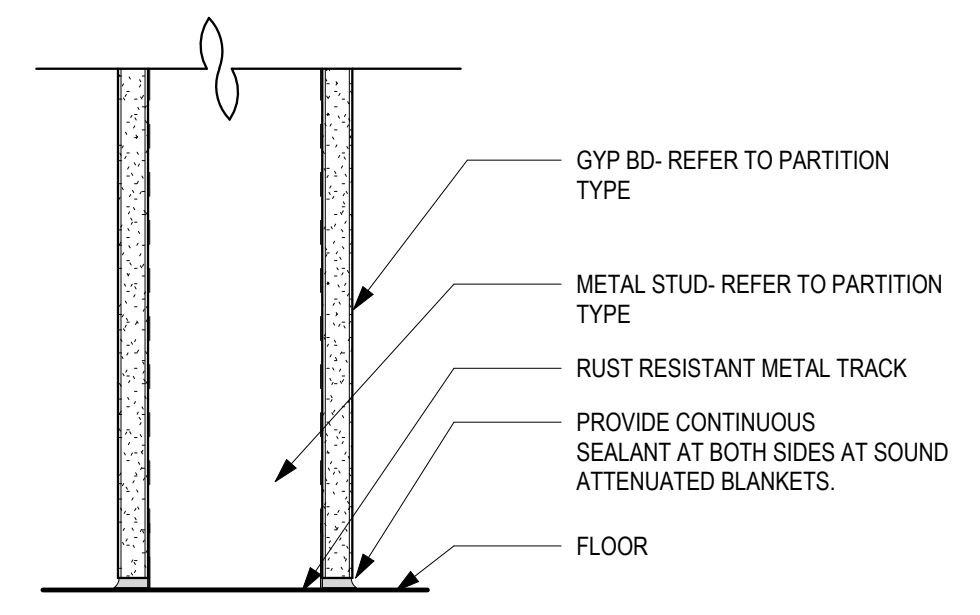
**1 PARTITION TYPES**  
 1/2" = 1'-0"



**2 DET- CLG @ GYP BD PARTITION TYP**  
 3" = 1'-0"



**3 DET- CLG @ BRACE GYP BD PARTITION**  
 3" = 1'-0"



**4 DET- FLR @ GYP BD PARTITION TYP**  
 3" = 1'-0"

**EMS Classrooms & Sim Lab Bldg. 14**  
 Sinclair College  
 444 West 3RD Street  
 Dayton, OH 45402

**INTERIOR PARTITION TYPES**

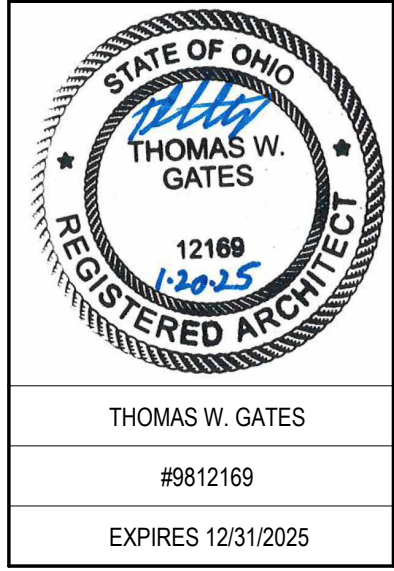
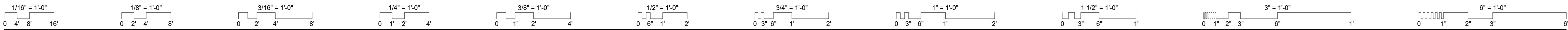
SCALE: As indicated

**A-520**

JOB NO.: 24011

DATE: 1/20/2025





**SPGB Architects**  
 4333-A TULLER ROAD  
 DUBLIN, OHIO 43017  
 PHONE: (614) 771-8963

DESIGNED BY: CW/OZ  
 DRAWN BY: CW/OZ/TE  
 CHECKED BY: TG

DATE:				

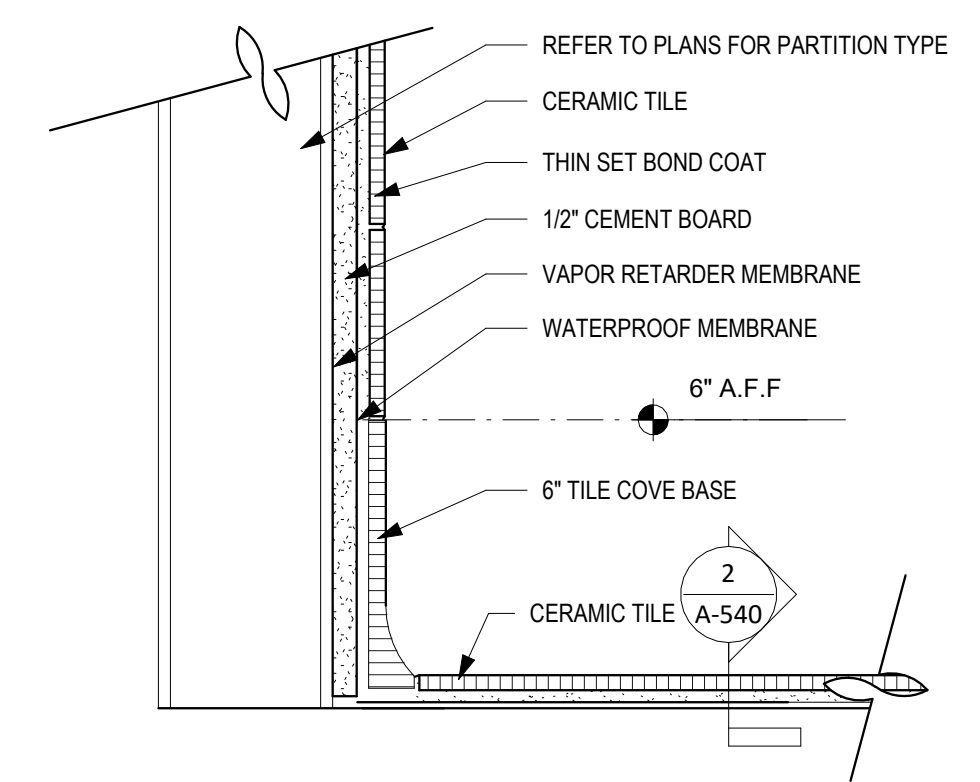
**EMS Classrooms & Sim Lab Bldg. 14**  
**Sinclair College**  
 444 West 3RD Street  
 Dayton, OH 45402

**TYP INTERIOR TILE AND FLOOR DETAILS**

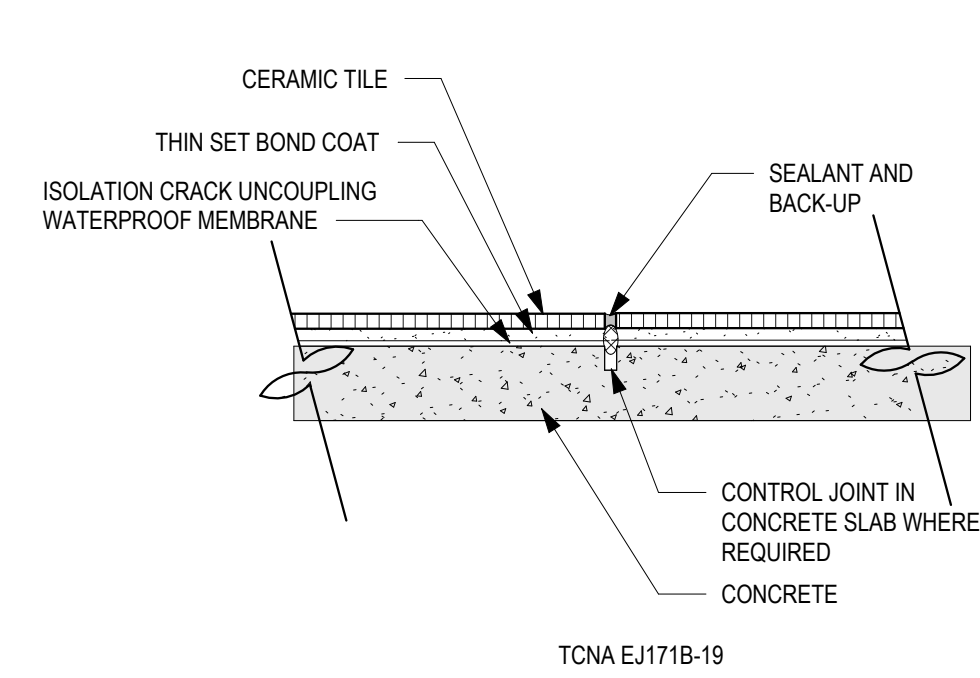
SCALE: As indicated

**A-540**

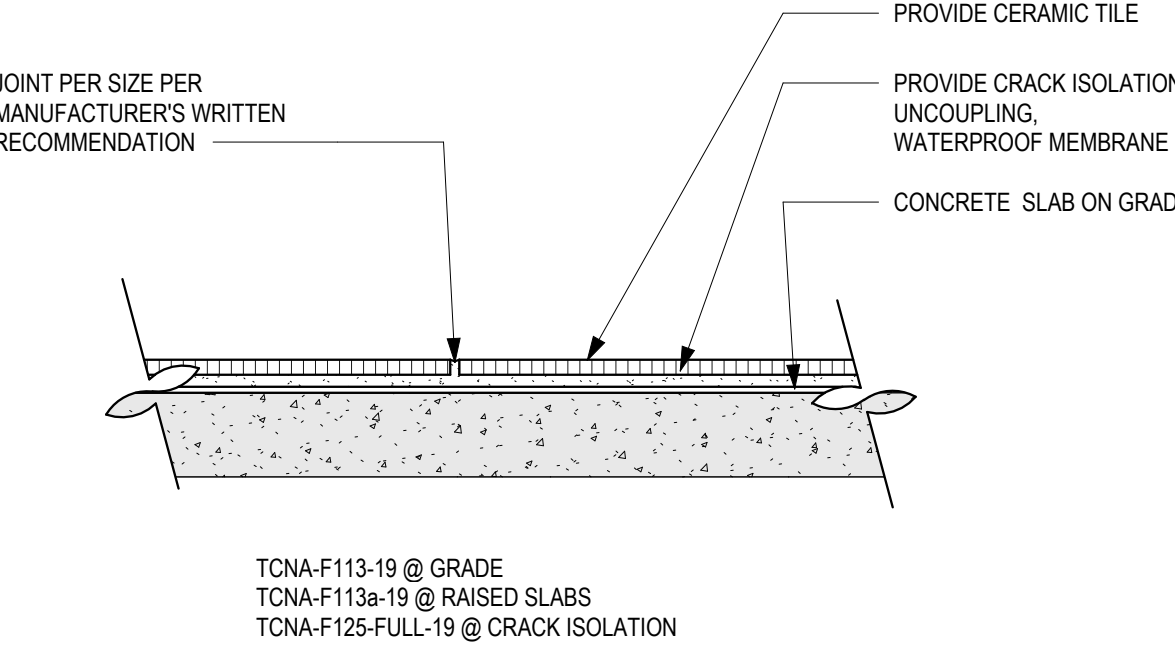
JOB NO.: 24011  
 DATE: 1/20/2025



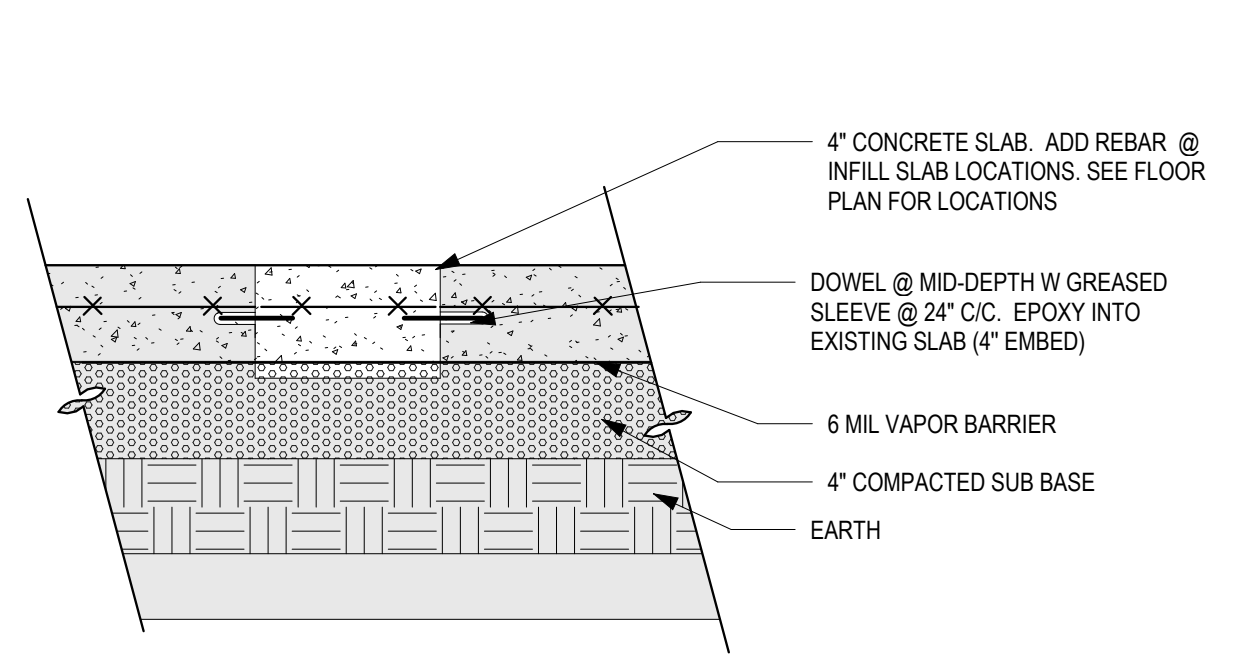
**4 DET - TYP CERAMIC TILE BOT OF WALL @ TILE**  
 3\"/>



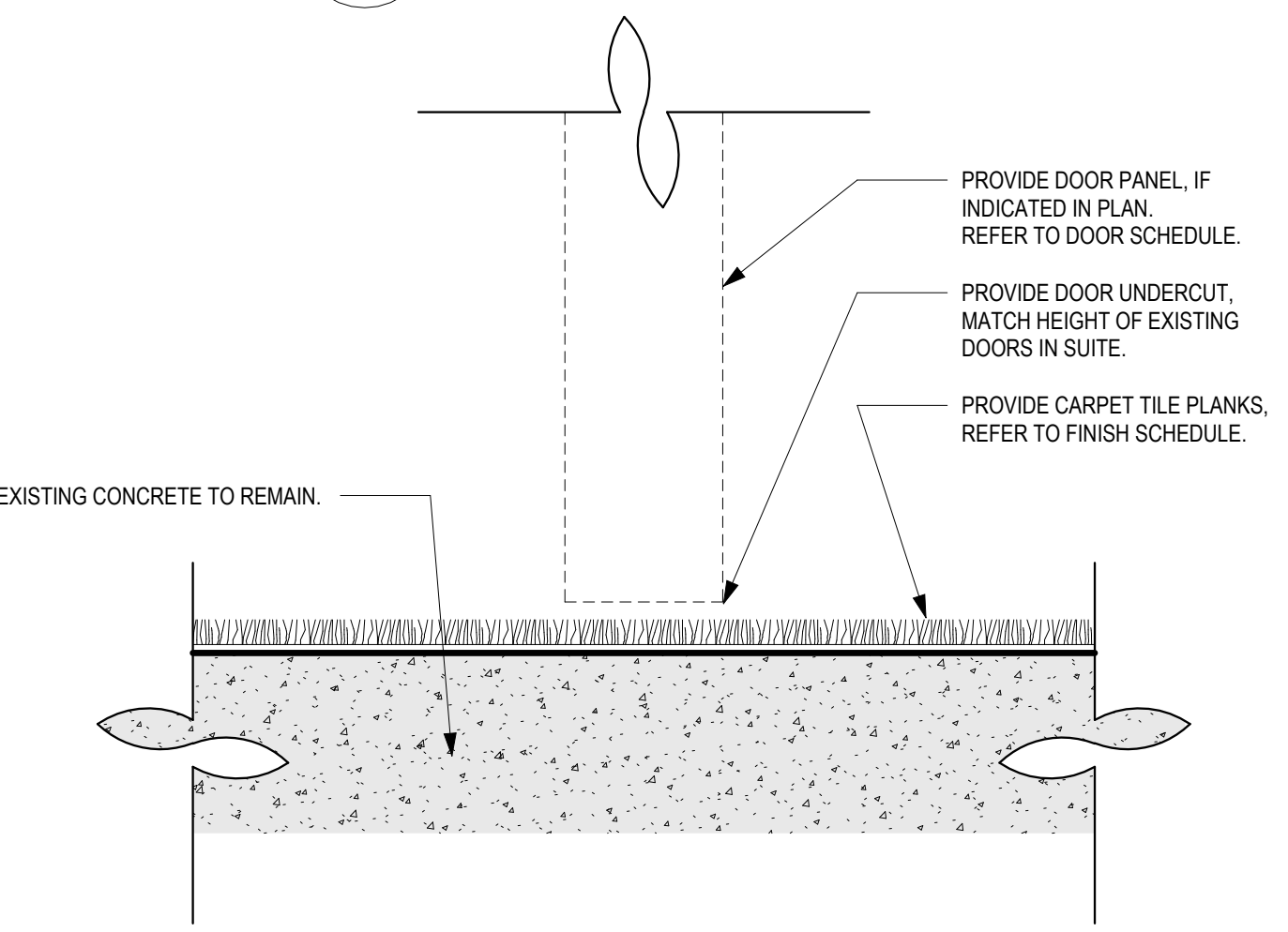
**3 DET - TYP TILE CONTRACTION JT**  
 3\"/>



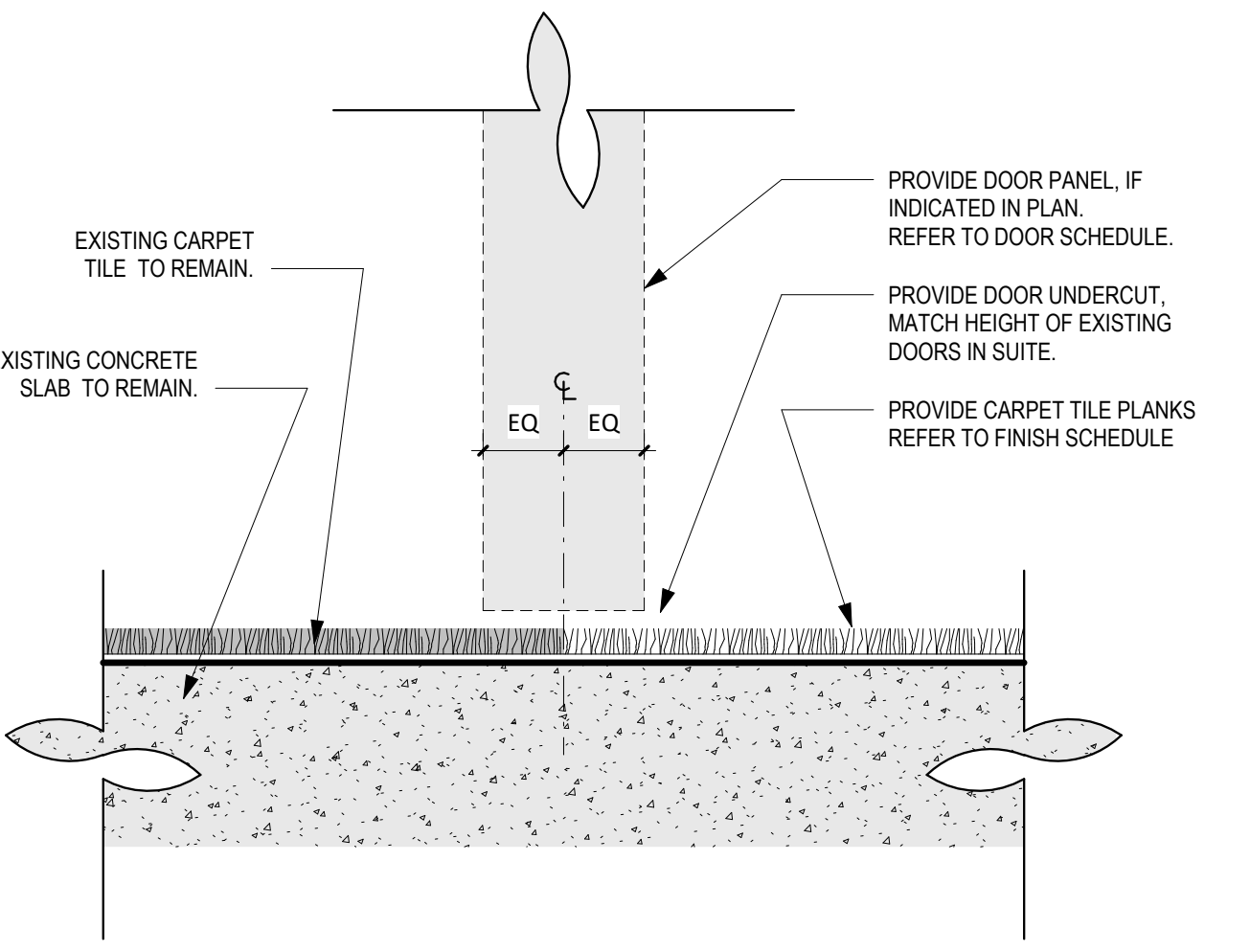
**2 DET - TYP TILE FLOOR @ CONCRETE**  
 3\"/>



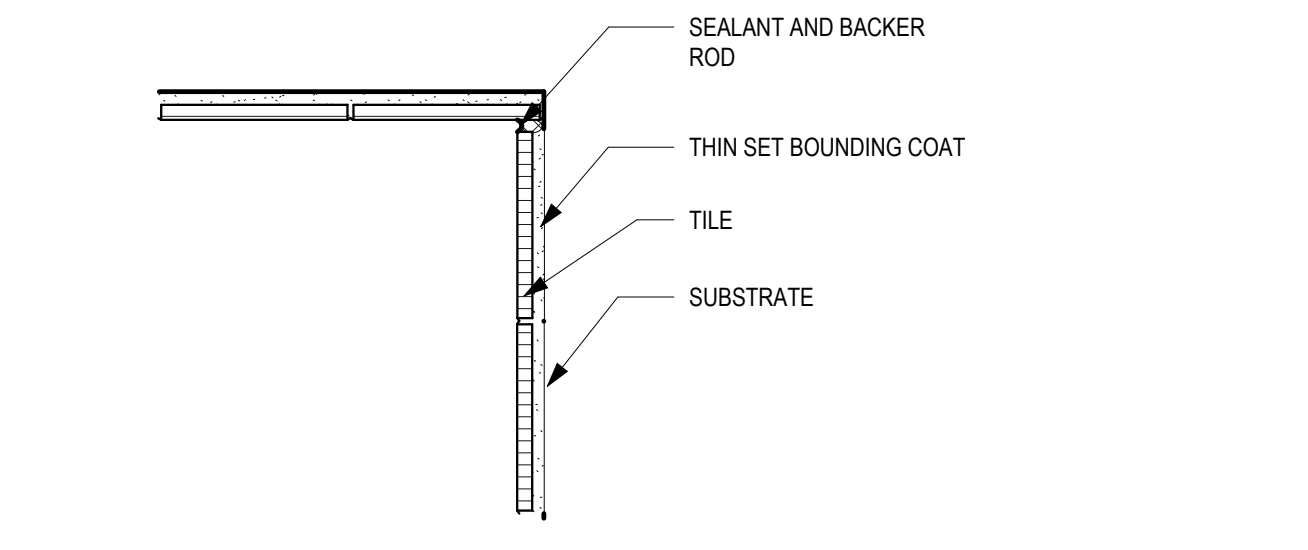
**1 DET - CONCRETE SLAB INFILL**  
 1 1/2\"/>



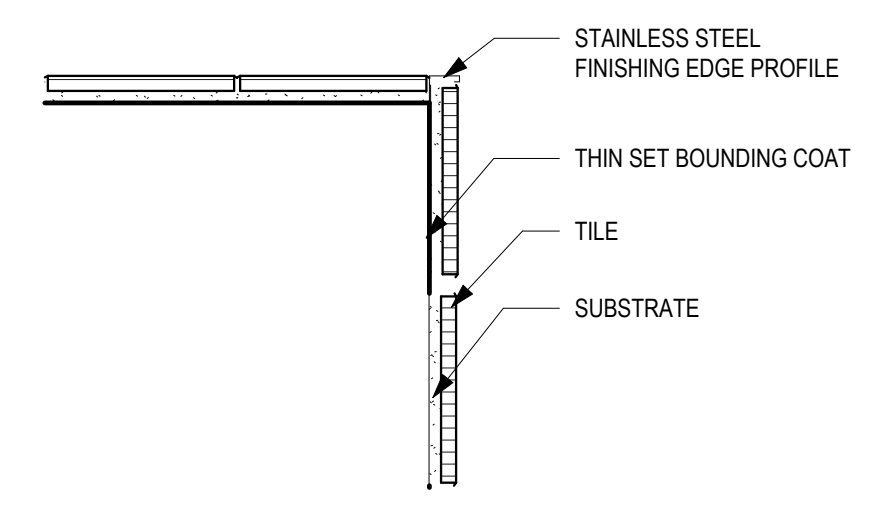
**8 DET - DOOR SILL CARPET**  
 6\"/>



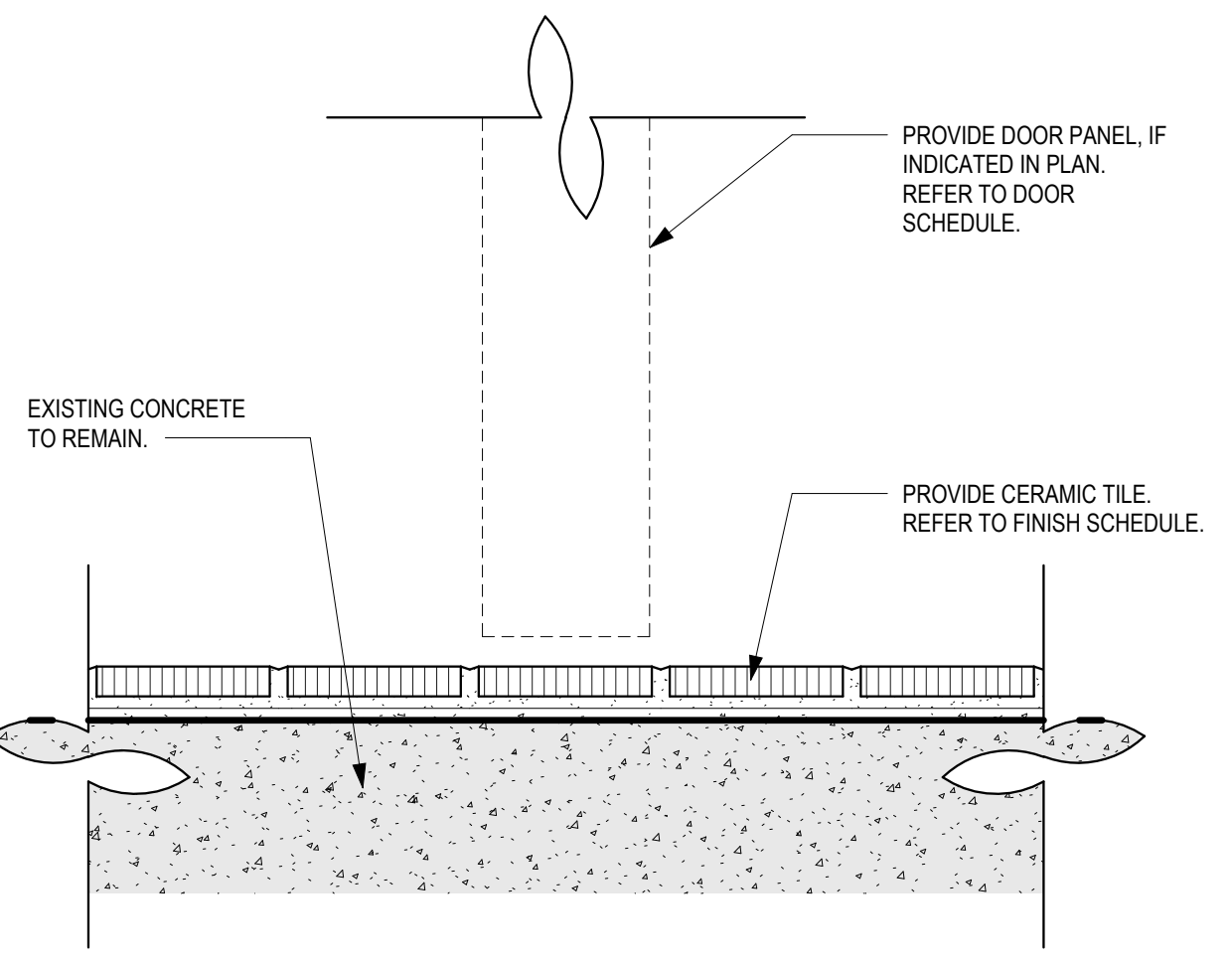
**7 DET - EXIST DOOR SILL TRANSITION EXIST CARPET / NEW**  
 6\"/>



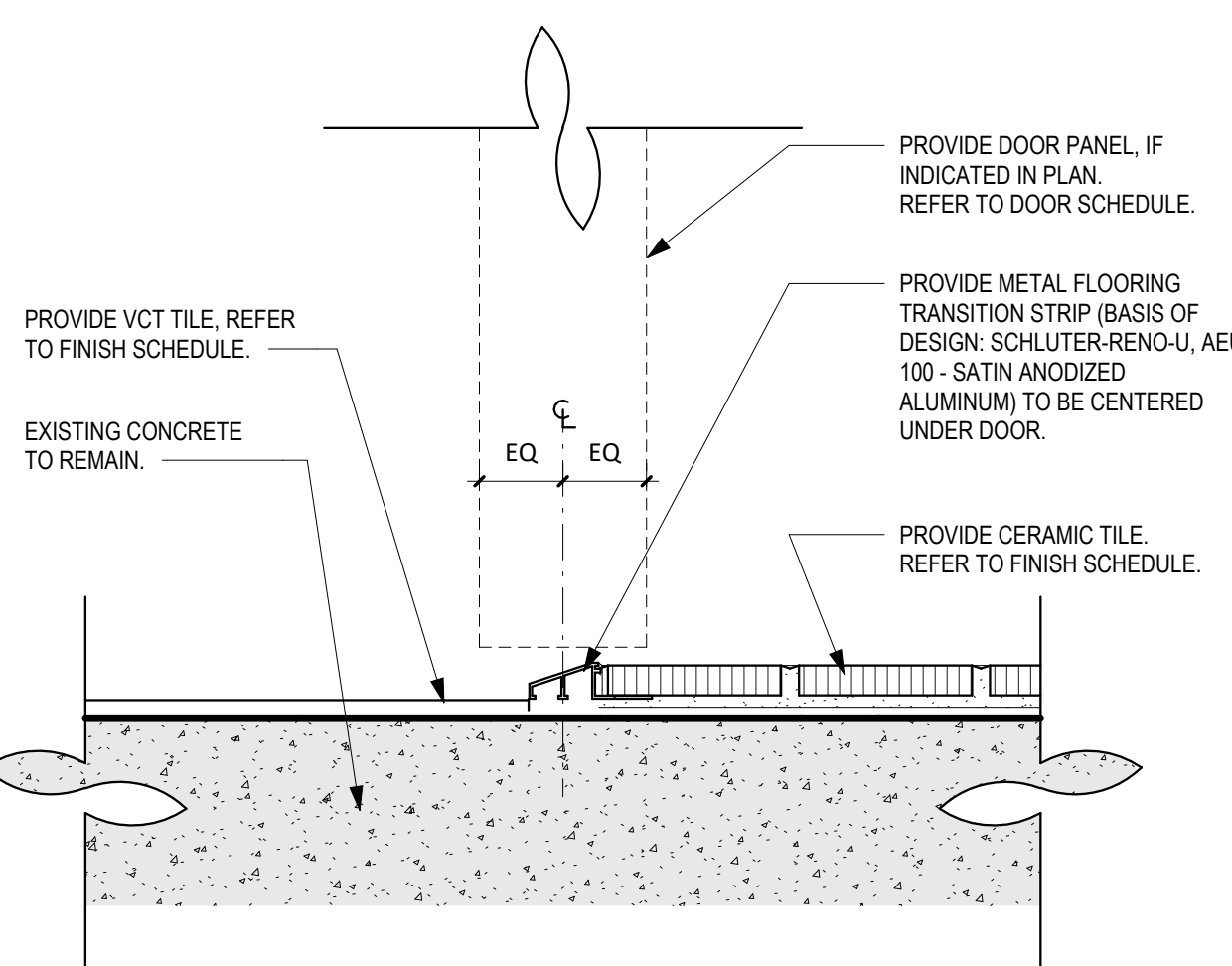
**6 DET - TYP CERAMIC TILE INTERIOR CORNER -TILE**  
 3\"/>



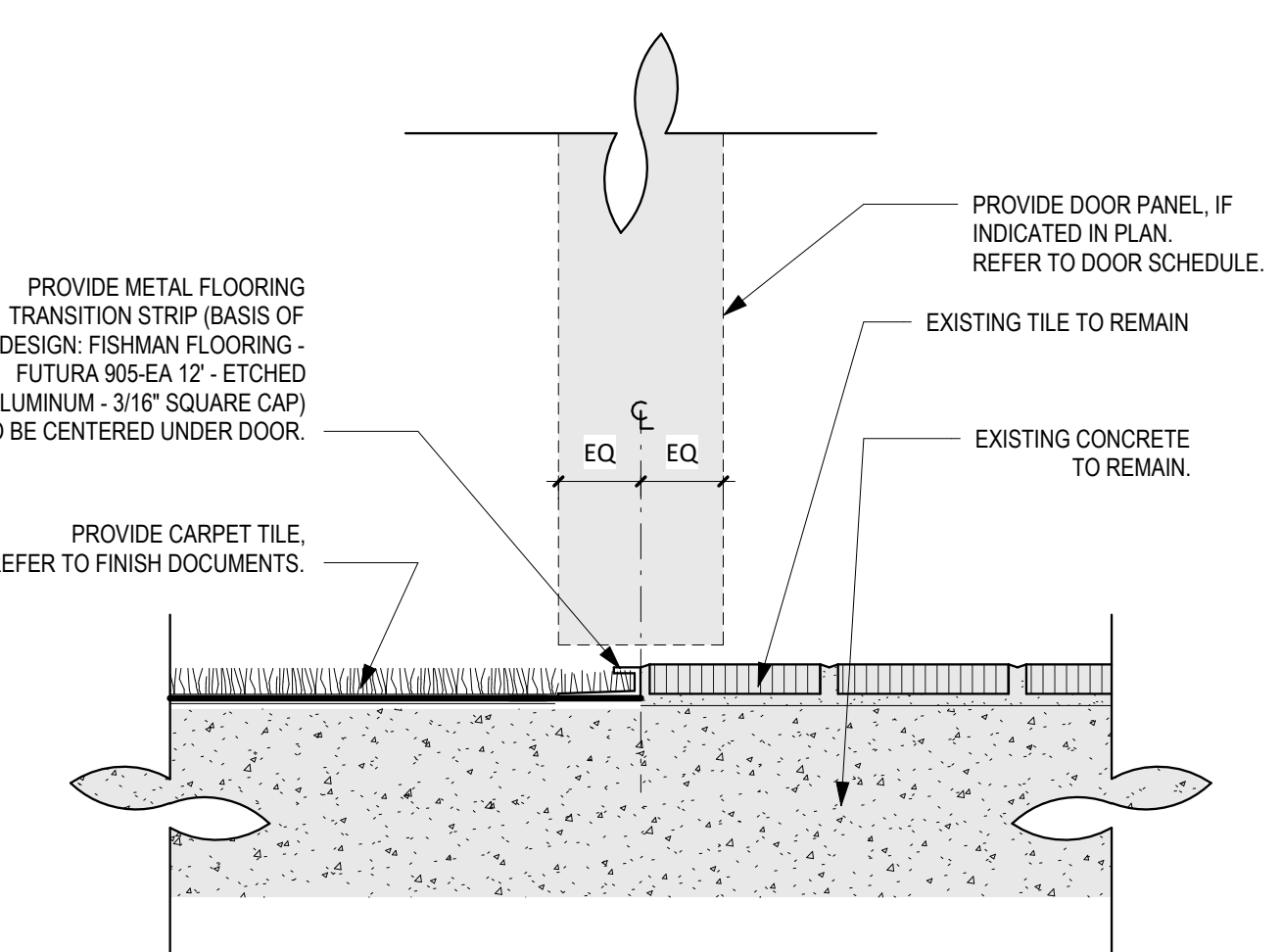
**5 DET - TYP CERAMIC TILE OUTER CORNER**  
 3\"/>



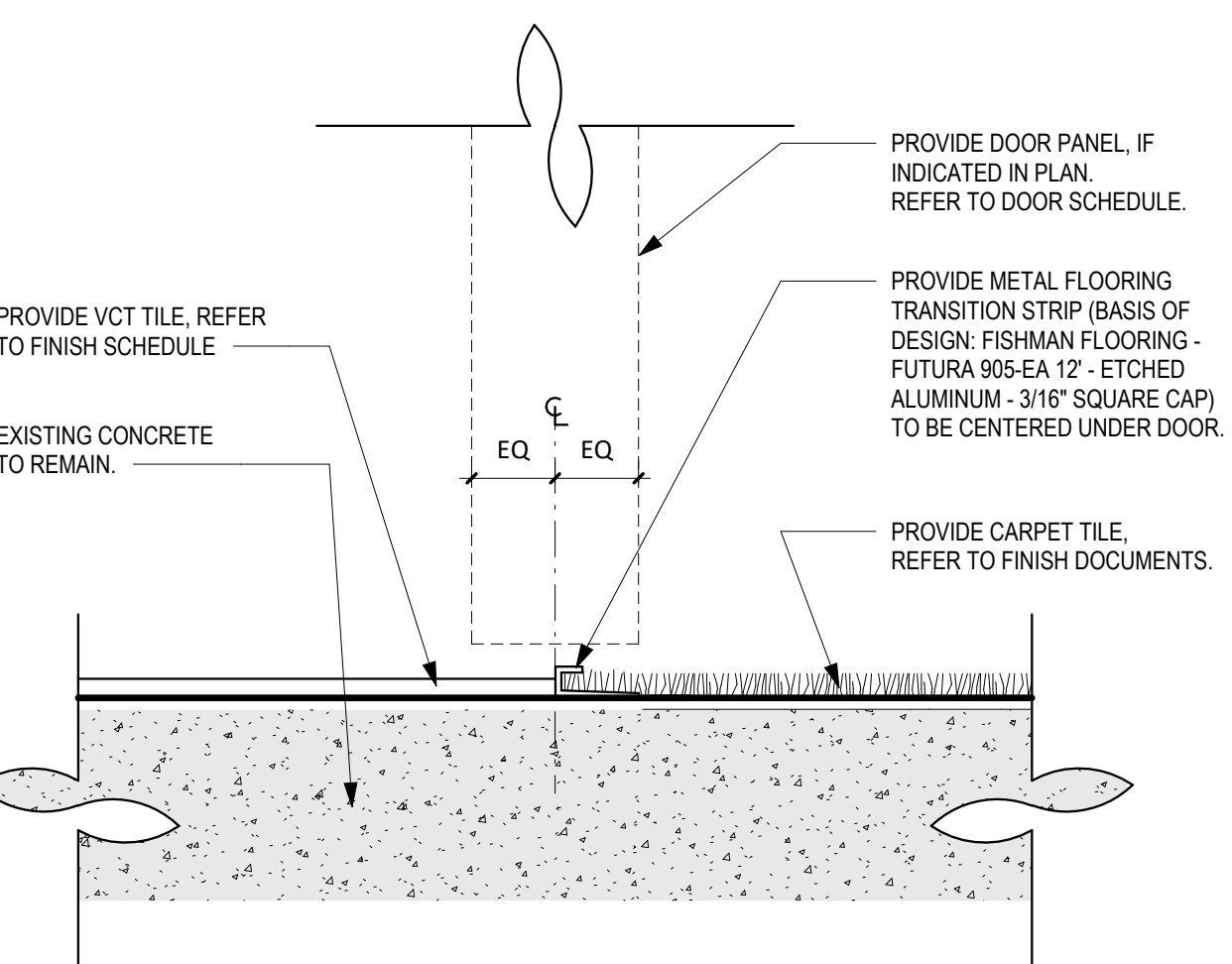
**12 DET - TILE DOOR SILL**  
 6\"/>



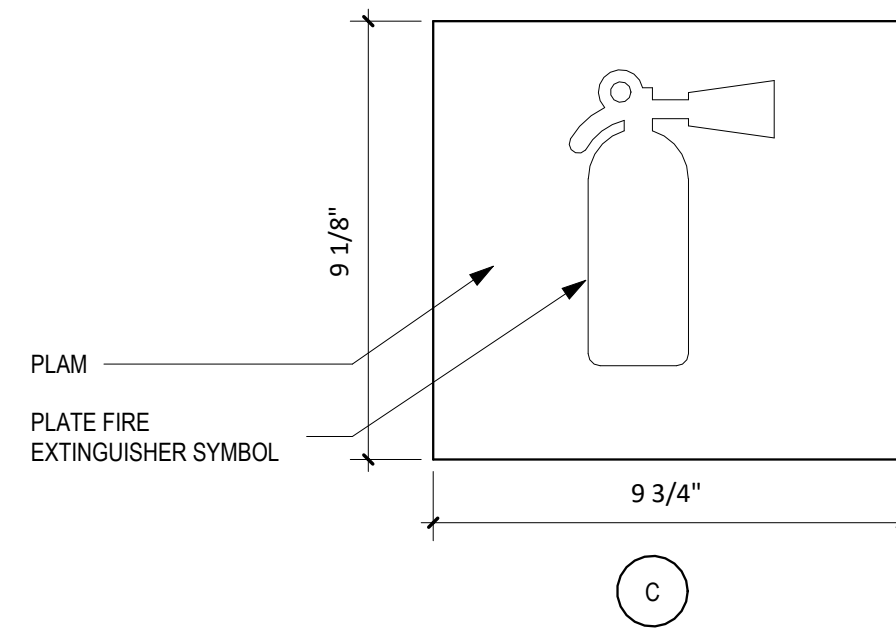
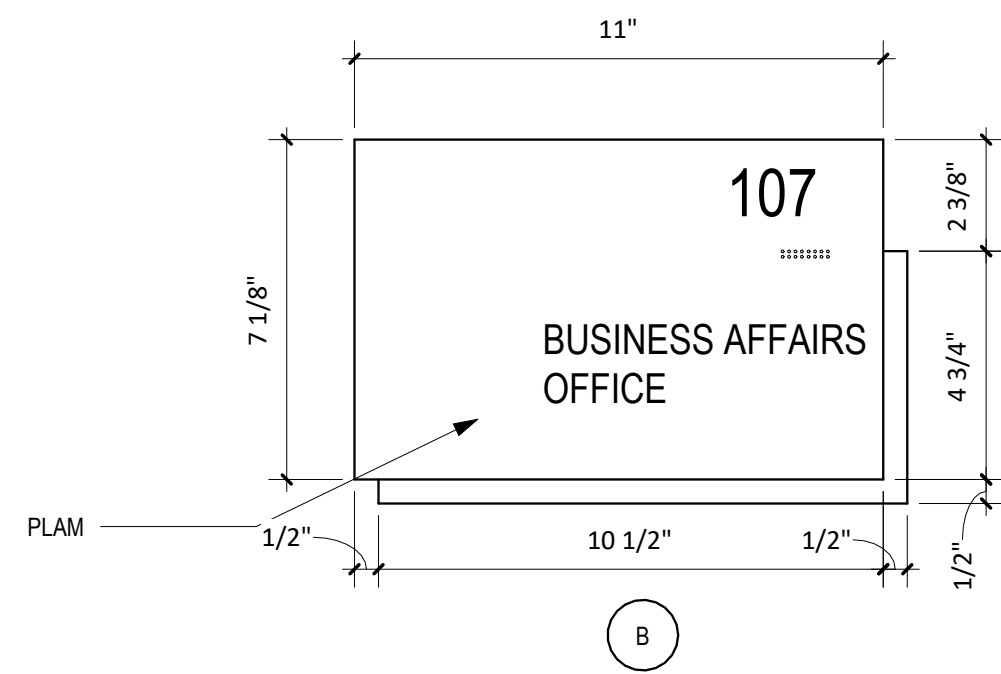
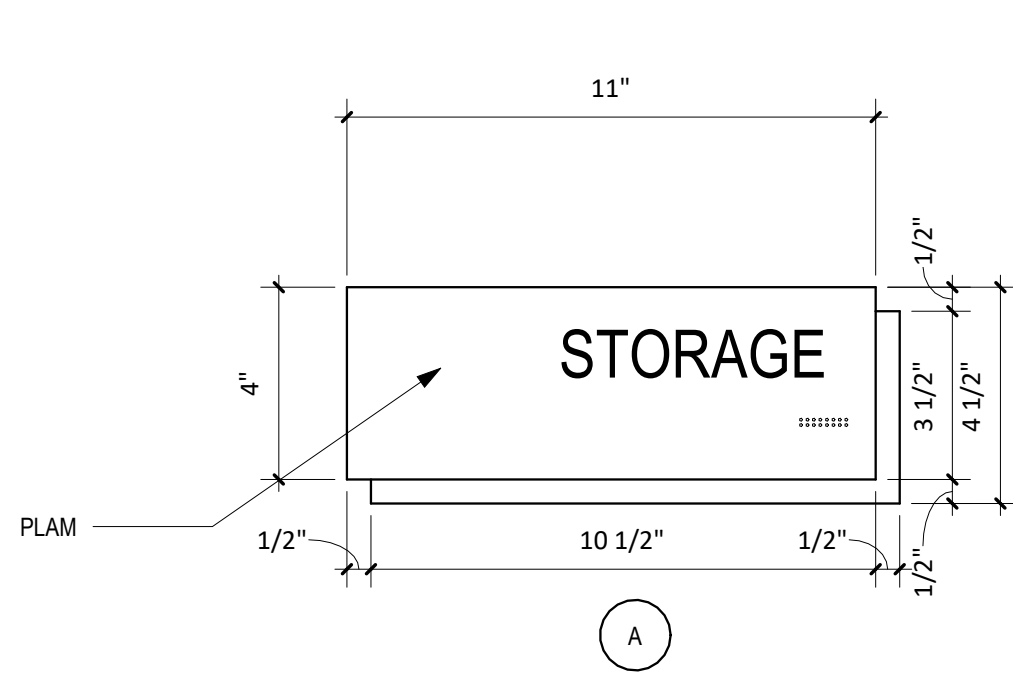
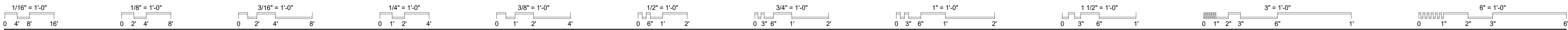
**11 DET - VCT / TILE - FLOOR TRANSITION**  
 6\"/>



**10 DET - EXIST TILE / CARPET - FLOOR TRANSITION**  
 6\"/>



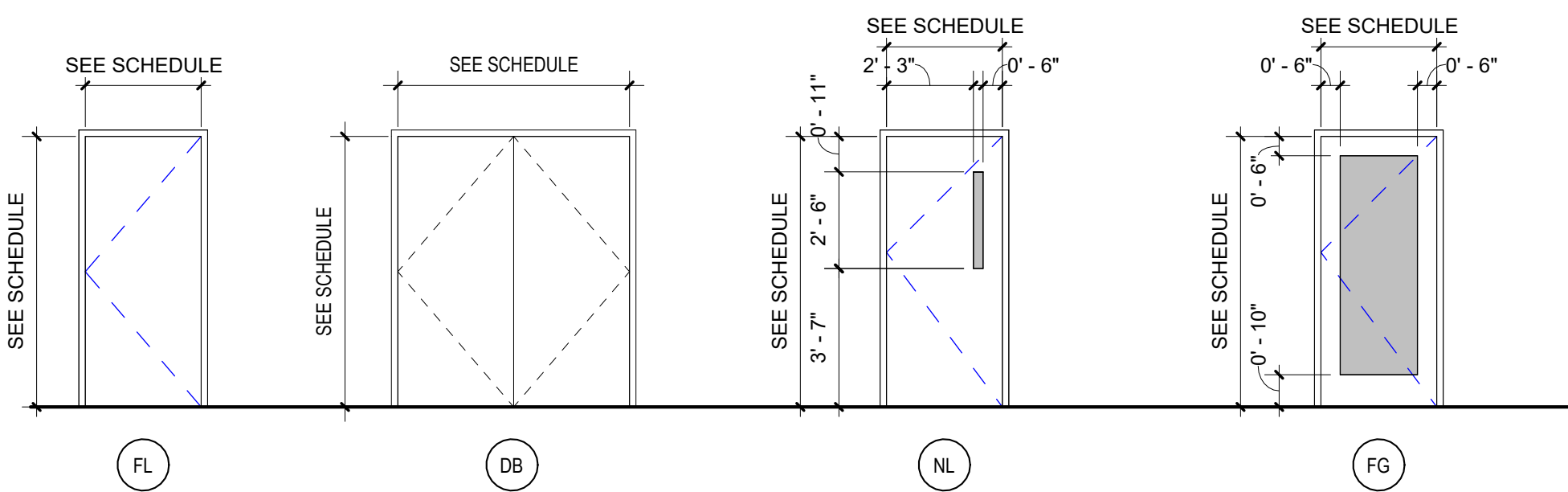
**9 DET - VCT / CARPET - FLOOR TRANSITION**  
 6\"/>



NOTE:  
SIGN TYPES A & B SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR

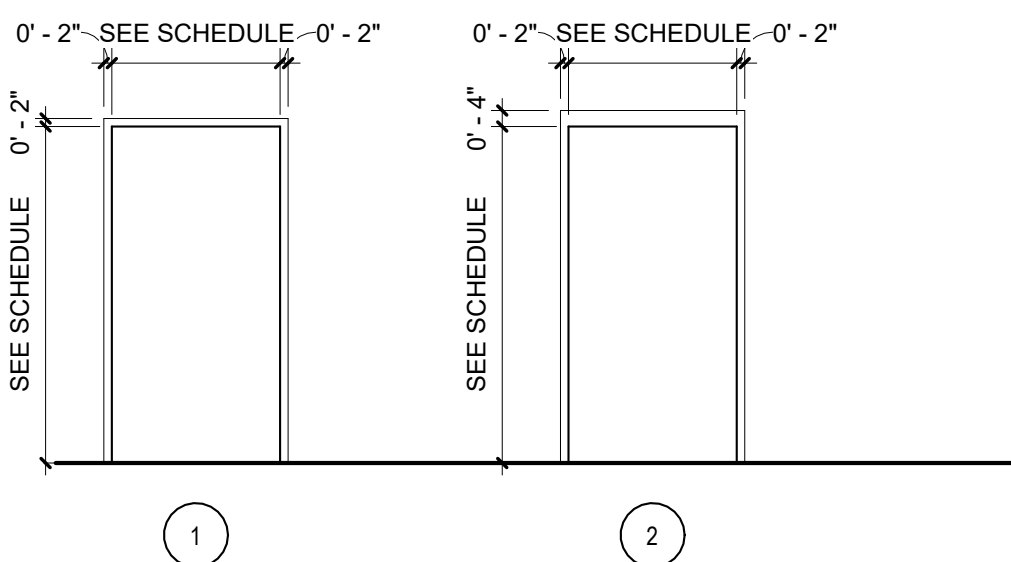
### SIGN TYPES

3\"/>



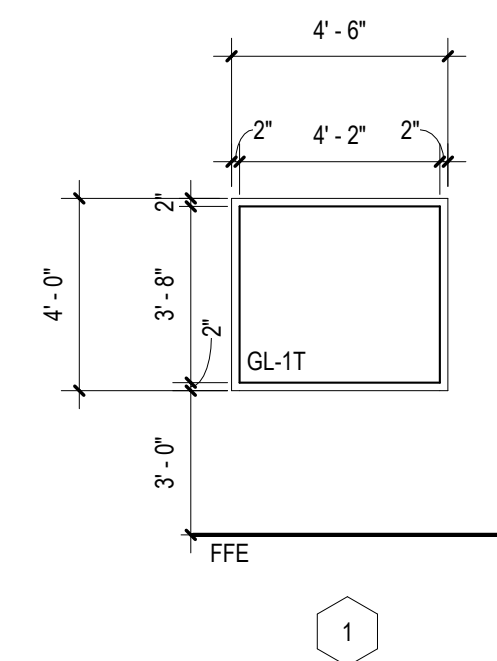
### DOOR TYPES

1/4\"/>



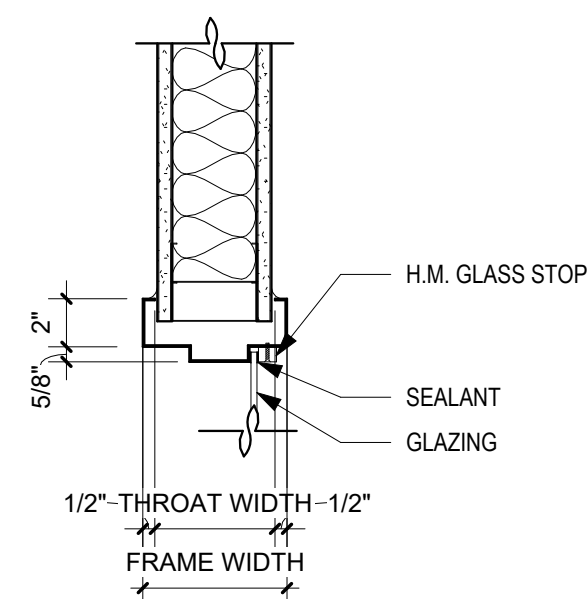
### DOOR FRAME TYPES

1/4\"/>



### WINDOW FRAME TYPES

1/4\"/>



### DET - HM GLASS STOP

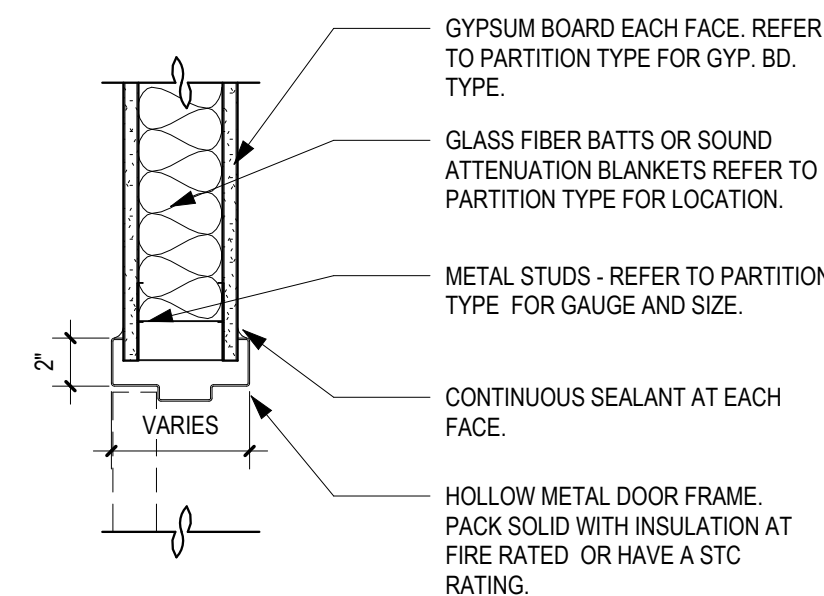
3

1 1/2\"/>

### DET - DH GYP BD PARTITION

1

1 1/2\"/>



### DET - DJ GYP BD PARTITION

2

1 1/2\"/>

### LOWER LEVEL DOOR SCHEDULE

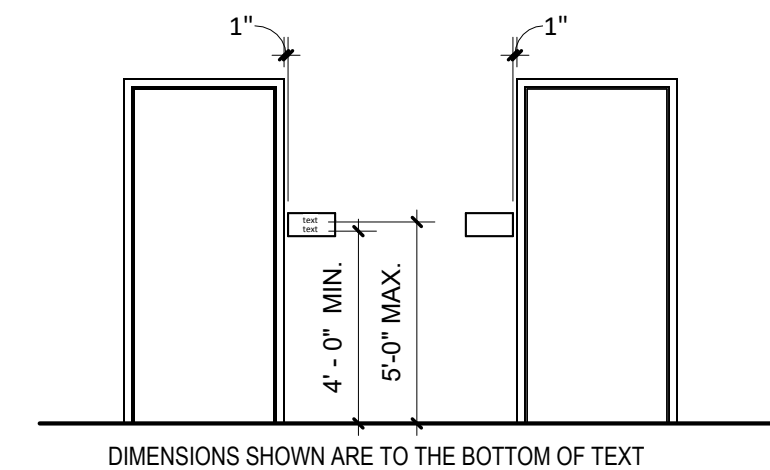
DOOR NO.	DIMENSIONS			TYPE	MATERIAL	GLAZING	FRAME			DETAIL			HARDWARE	LABEL	REMARKS
	W	H	T				MATERIAL	TYPE	GLAZING	HEAD	JAMB	SILL			
0014	3'-0"	7'-0"	1 3/4"	NL	HM	GL-1T	HM	1	-	1/A-601	2/A-601	-	01	-	
0016B	6'-0"	7'-0"	1 3/4"	DB	HM	-	HM	1	-	1/A-601	2/A-601	7/A-540	AC-01	-	3, 4
0016C	6'-0"	7'-0"	1 3/4"	DB	HM	-	HM	1	-	1/A-601	2/A-601	7/A-540	AC-01	-	3, 4
0018	3'-0"	7'-0"	1 3/4"	FL	HM	-	HM	1	-	1/A-601	2/A-601	12/A-540	02	-	
0021A	3'-0"	7'-0"	1 3/4"	NL	HM	GL-1T	HM	1	-	1/A-601	2/A-601	11/A-540	03	-	
0021B	3'-0"	7'-0"	1 3/4"	NL	HM	GL-1T	HM	1	-	1/A-601	2/A-601	9/A-540	03	-	
0022	3'-0"	7'-0"	1 3/4"	NL	HM	GL-1T	HM	1	-	1/A-601	2/A-601	8/A-540	04	-	
0022A	3'-0"	7'-0"	1 3/4"	NL	HM	GL-1T	HM	1	-	1/A-601	2/A-601	8/A-540	03	-	
0022B	3'-0"	7'-0"	1 3/4"	NL	HM	GL-1T	HM	1	-	1/A-601	2/A-601	8/A-540	03	-	
0023	3'-0"	7'-0"	1 3/4"	FL	HM	-	HM	1	-	1/A-601	2/A-601	9/A-540	05	-	
0024	6'-0"	7'-0"	1 3/4"	FG	HM	GL-1T	HM	1	-	1/A-601	2/A-601	8/A-540	06	-	2
0025	3'-0"	7'-0"	1 3/4"	FL	HM	-	HM	1	-	1/A-601	2/A-601	10/A-540	07	-	2
0026	3'-0"	7'-0"	1 3/4"	FL	HM	-	HM	1	-	1/A-601	2/A-601	7/A-540	08	-	2
E0024	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	-	EXIST	EXIST	-	-	-	-	EX-01	-	1

- REMARKS:
1. PAINT EXISTING DOOR AND FRAME. REFER TO FINISH SCHEDULE.
  2. PROVIDE AS BID ALTERNATE. REFER TO ALTERNATE SPECIFICATION.
  3. PROVIDE ACOUSTIC DOOR SEALS.
  4. PROVIDE CARD READER ACCESS. REFER TO ELECTRICAL DRAWINGS.

### SIGNAGE SCHEDULE

DOOR NO.	DESCRIPTION	SIGN TYPE	SIGN LOCATION	SIDE OF DOOR	SIGNAGE COPY	REMARKS
0016B	6'-0" X 7'-0" HM DOOR	B	1	Y	EMS PARAMEDIC STUDIO	4
0016C	6'-0" X 7'-0" HM DOOR	B	2	Y	EMS PARAMEDIC STUDIO	4
0018	3'-0" X 7'-0" HM DOOR	A	2	Z	STORAGE	
0021A		B	2	Z	SIMULATION LAB	
0021B		B	2	Z	SIMULATION LAB	
0022		B	1/2	Z/Y	LECTURE HALL	1, 2
0022A		B	1	Z	LECTURE HALL	
0022B		B	2	Z	LECTURE HALL	
0023	3'-0" X 7'-0" HM DOOR	A	2	Z	STORAGE	
0025	3'-0" X 7'-0" HM DOOR	B	1	Z	MEN'S RESTROOM	
0026	3'-0" X 7'-0" HM DOOR	B	2	Z	STAIR	3
E0024	3'-0" X 7'-0" HM DOOR	B	2	Z	CONFERENCE	4

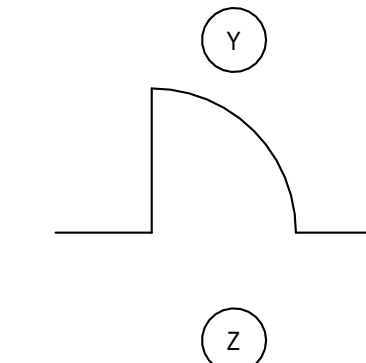
- REMARKS:
1. SIGN SIDE OF DOOR "Y": COPY DOOR NO. 0022A
  2. SIGN SIDE OF DOOR "Z": COPY DOOR NO. 0022B
  3. REINSTALL EXISTING ROOM SIGN.
  4. EXISTING DOOR TO REMAIN.



DIMENSIONS SHOWN ARE TO THE BOTTOM OF TEXT

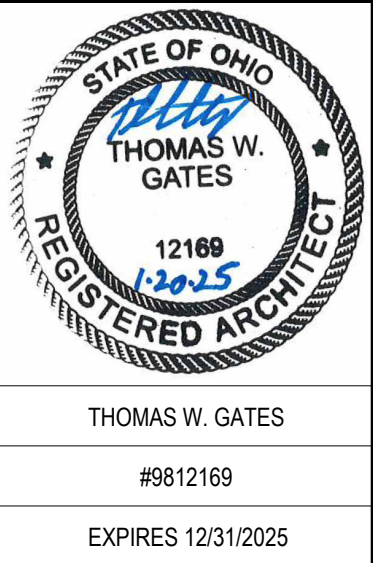
### SIGN LOCATIONS

1/4\"/>



### SIGN SIDE OF DOOR

1/4\"/>



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PHONE: (614) 771-8963

DESIGNED BY: CW/OZ

DRAWN BY: CW/OZ/TE

CHECKED BY: TG

DATE:

REVISIONS:

EMS Classrooms &  
Sim Lab Bldg. 14  
Sinclair College  
444 West 3RD Street  
Dayton, OH 45402

DOOR SCHEDULES  
& DETAILS

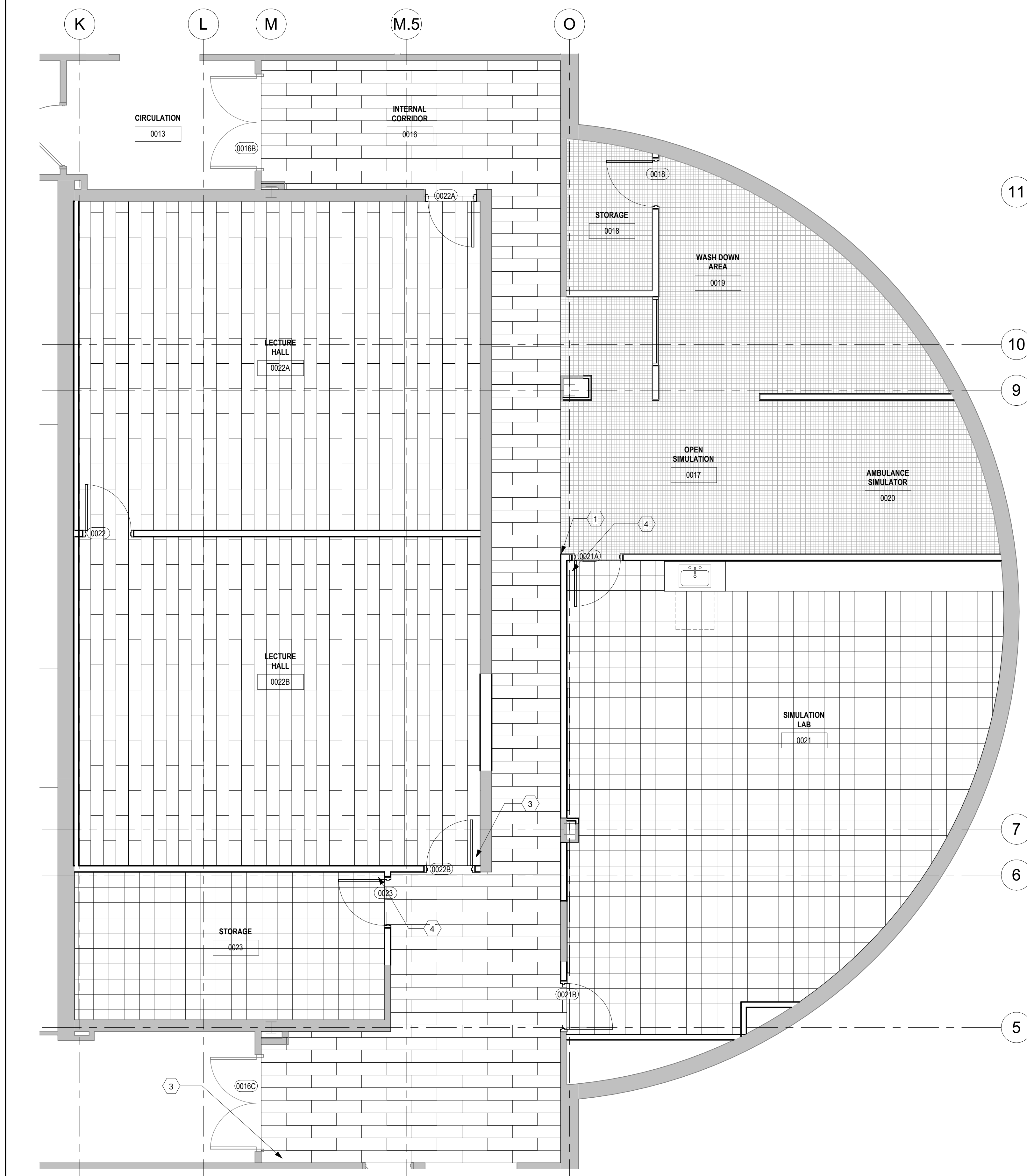
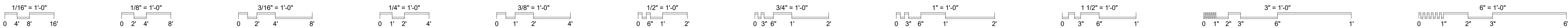
SCALE: As indicated

A-601

JOB NO.: 24011

DATE: 1/20/2025





LOWER LEVEL FINISH SCHEDULE										
ROOM NO.	ROOM DESCRIPTION	FLOOR BASE	FLOOR MATERIAL	WALL FINISH				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	
0013	CIRCULATION	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
0014	COPY/WORK	WB-1 / EXIST	EXIST	P-1B / EXIST	EXIST	EXIST	P-1B / EXIST	EXIST	EXIST	1
0014A	CUBICLE AREA	EXIST	EXIST	EXIST	EXIST	P-1B / EXIST	EXIST	EXIST	EXIST	1
0015	WOMEN'S RESTROOM	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
0016	INTERNAL CORRIDOR	RB-1	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	2
0017	OPEN SIMULATION	CT-3	CT-2	P-1B	P-1B	P-1B	P-1B	ACT-1	-	2
0018	STORAGE	CT-3	CT-2	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
0019	WASH DOWN AREA	CT-3	CT-2	CT-1	-	CT-1	CT-1	ACT-2	-	2
0020	AMBULANCE SIMULATOR	CT-3	CT-2	P-1B	P-1B	P-1B	P-1B	ACT-1	-	2
0021	SIMULATION LAB	WB-1	VCT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
0022A	LECTURE HALL	WB-1	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
0022B	LECTURE HALL	WB-1	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
0023	STORAGE	WB-1	VCT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
0024	CONFERENCE	WB-1	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
0025	MEN'S RESTROOM	WB-1	EXIST	EXIST	EXIST	EXIST	P-1B / EXIST	EXIST	EXIST	1
0026	ALCOVE	WB-1 / EXIST	CPT-1	EXIST	P-1B	EXIST	EXIST	EXIST	EXIST	1

REMARKS:  
 1. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.  
 2. PAINT BULK HEAD SOFFIT P-4A. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.

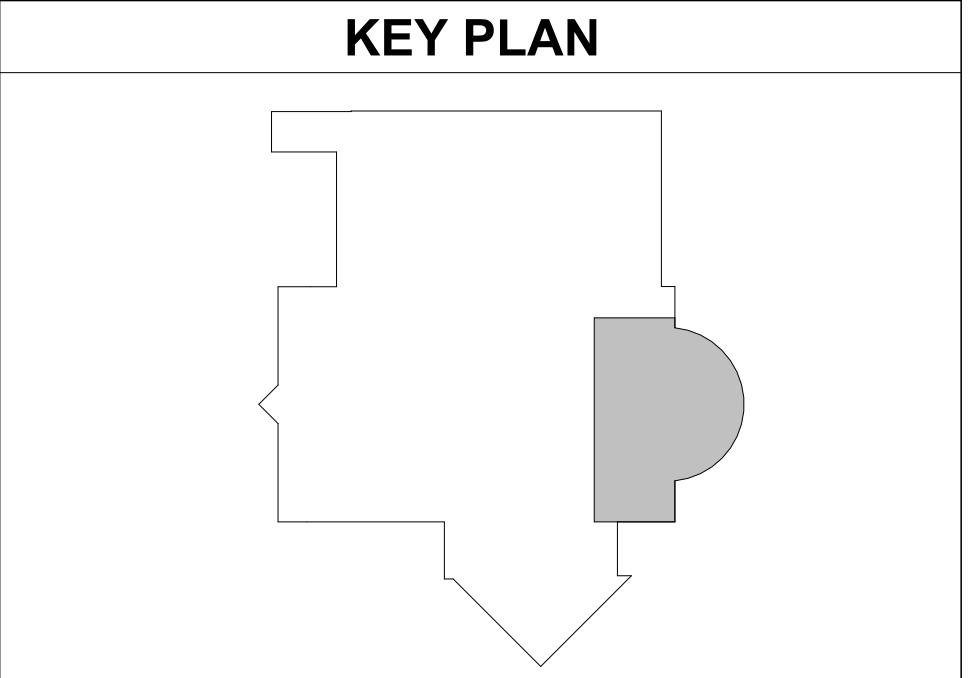
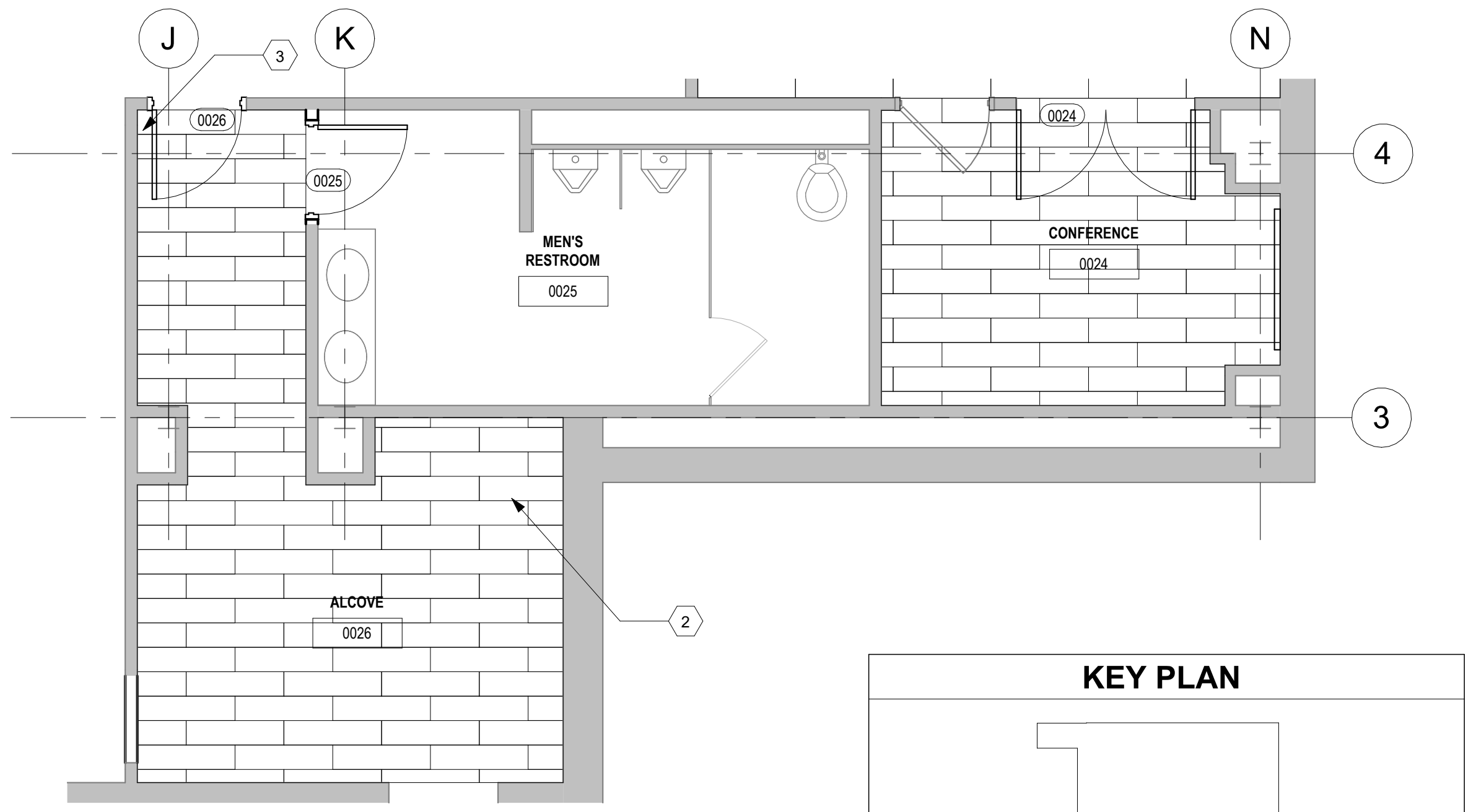
FINISH LEGEND	
	VCT-1: MANUFACTURER: ARMSTRONG COLOR/TYP: FIELD GREY 51927 SIZE: 12"x12" INSTALLATION PATTERN: MONOLITHIC
	CT-1: MANUFACTURER: DAL TILE TYPE/COLOR: COLOR WHEEL CLASSIC, WHITE SIZE: 4"x4" INSTALLATION PATTERN: MONOLITHIC
	CT-2: MANUFACTURER: DAL TILE TYPE/COLOR: KEYSTONE, PEPPER WHITE SIZE: 2"x2" INSTALLATION PATTERN: MONOLITHIC
	CPT-1: ALTERNATE MANUFACTURERS 1. INTERFACE: DIDDY DOT AZURE (BASIS OF DESIGN). 2. SHAW CONTRACT: ELEMENT LAKE 3. MOHAWK: COLOR CANVAS GT484 CELESTIAL
	WB-1: MANUFACTURER: ROPPE TYPE: 700 SERIES COLOR: 100 BLACK SIZE: 4" H
	PLAM-1: MANUFACTURER: FORMICA TYPE: PLASTIC LAMINATE COLOR: 7747 PENCIL WOOD
	SS-1: MANUFACTURER: CORIAN TYPE: SOLID SURFACE COLOR: STONIQUE
	P-1B: MATCH EXISTING (WALL PAINT)
	P-2B: RAVE RED SW608 (ACCENT WALL PAINT)
	P-3C: MATCH EXISTING (DOOR & FRAME PAINT)
	P-4A: MATCH EXISTING (CEILING PAINT)

FINISH SYMBOLS LEGEND	
ACOUSTICAL CEILING TILE [09 51 13]	ACT-X
CARPET TILE [09 68 13]	CPT-X
CERAMIC TILE [09 30 13]	CT-X
PAINT [09 91 24]	P-XX
VINYL COMPOSITE TILE [09 65 19]	VCT-X
WALL BASE [09 65 13]	WB-X

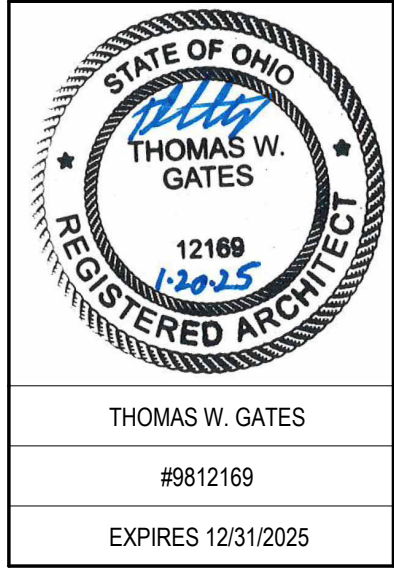
COLOR, TYP. - REFER TO SPEC. TYP.  
 SHEEN - REFER TO SHEEN LEGEND BELOW

SHEEN LEGEND	
A	FLAT- MPI GLOSS LEVEL 1
B	EGGSHELL / EG-SHEL / SATIN- MPI GLOSS LEVEL 3
C	SEMI-GLOSS- MPI GLOSS LEVEL 5
D	HIGH GLOSS- MPI GLOSS LEVEL 6

CODED NOTES	
1	BEGIN FLOOR PATTERN WITH FULL SIZED CT-2 TILE. ALIGN TILE WITH PARTITION.
2	BID ALTERNATE THIS AREA.
3	BEGIN FLOOR PATTERN WITH FULL SIZED CPT-1 TILE. ALIGN TILE WITH PARTITION. FOLLOW PATTERN FOR DIRECTION OF TILE.
4	BEGIN FLOOR PATTERN WITH FULL SIZED VCT-1 TILE. ALIGN TILE WITH PARTITION.



**ENLARGED LOWER LEVEL FINISH FLOOR PLAN - ROOMS 0024-0026**



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 DRAWN BY: CW/OZ  
 CHECKED BY: TG

DATE:	REVISIONS:

**EMS Classrooms & Sim Lab Bldg. 14**  
**Sinclair College**  
 444 West 3RD Street  
 Dayton, OH 45402

**LOWER LEVEL FINISH FLOOR PLAN & FINISH SCHEDULE**

SCALE: As indicated

**A-620**

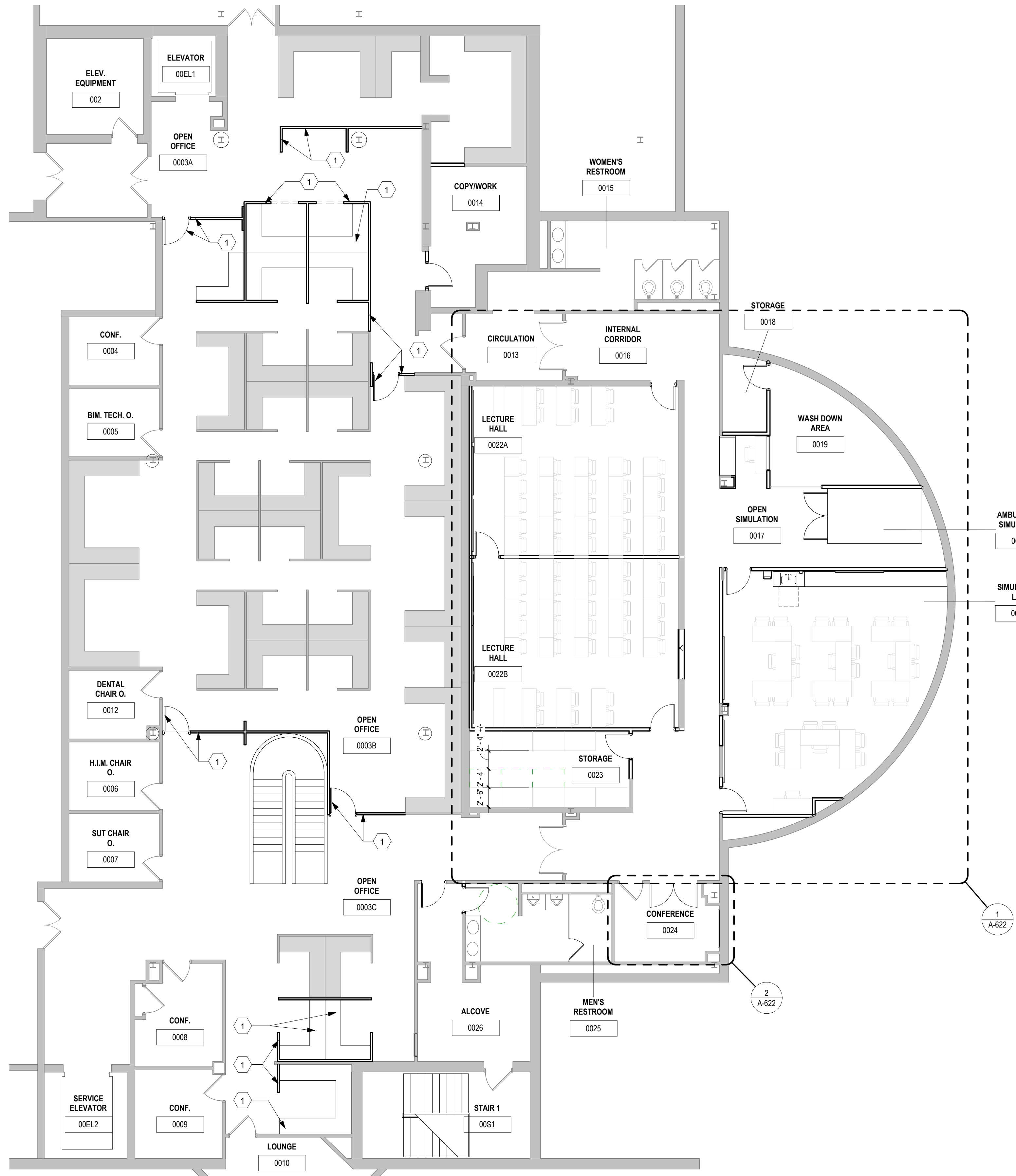
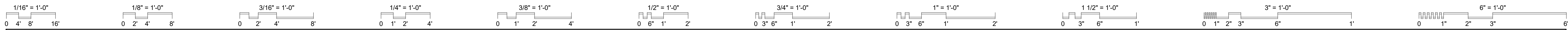
JOB NO.: 24011  
 DATE: 1/20/2025

**1 ENLARGED LOWER LEVEL FINISH FLOOR PLAN - ROOMS 0016 - 0023**

1/4" = 1'-0"

**2**

1/4" = 1'-0"



**GENERAL NOTES**

A. ALL FURNISHINGS SHOWN ARE PROVIDED BY OWNER, UON. FURNITURE LAYOUT FOR REFERENCE ONLY.

**CODED NOTES** X

1 PARTIAL HEIGHT SYSTEMS PARTITION, DOOR AND FRAME PROVIDED BY OWNER.

STATE OF OHIO  
**THOMAS W. GATES**  
 REGISTERED ARCHITECT  
 12169  
 12025

THOMAS W. GATES  
 #9812169  
 EXPIRES 12/31/2025

**SPGB Architects**  
 4333-A TULLER ROAD  
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 PHONE: (614) 771-8963

DESIGNED BY: CW/OZ  
 DRAWN BY: CW/OZ  
 CHECKED BY: TG

DATE:	
REVISIONS:	

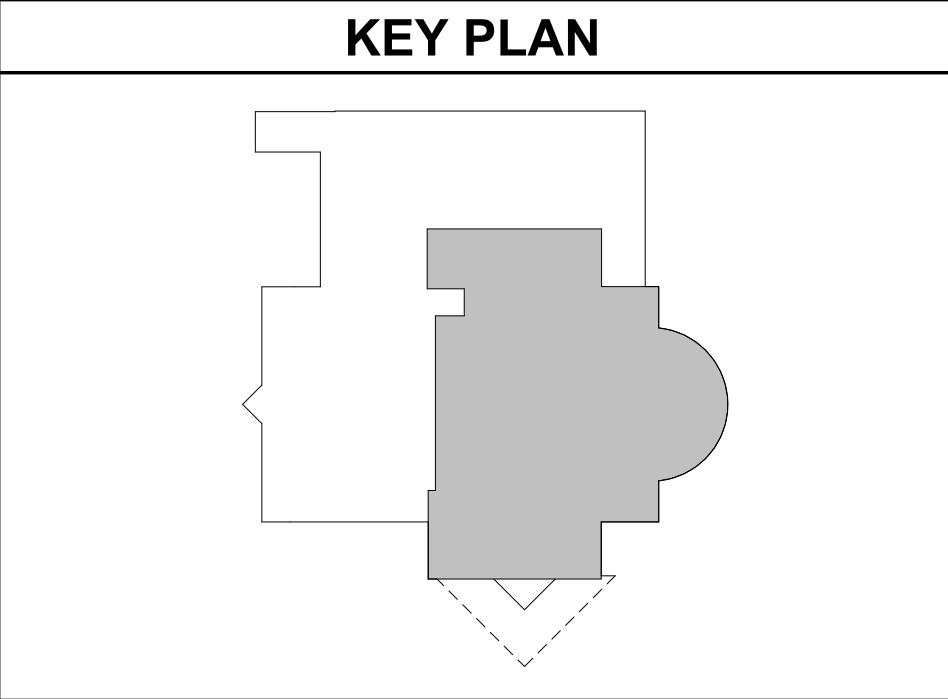
**EMS Classrooms & Sim Lab Bldg. 14**  
 Sinclair College  
 444 West 3RD Street  
 Dayton, OH 45402

**PARTIAL LOWER LEVEL FURNITURE & EQUIPMENT PLAN**

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

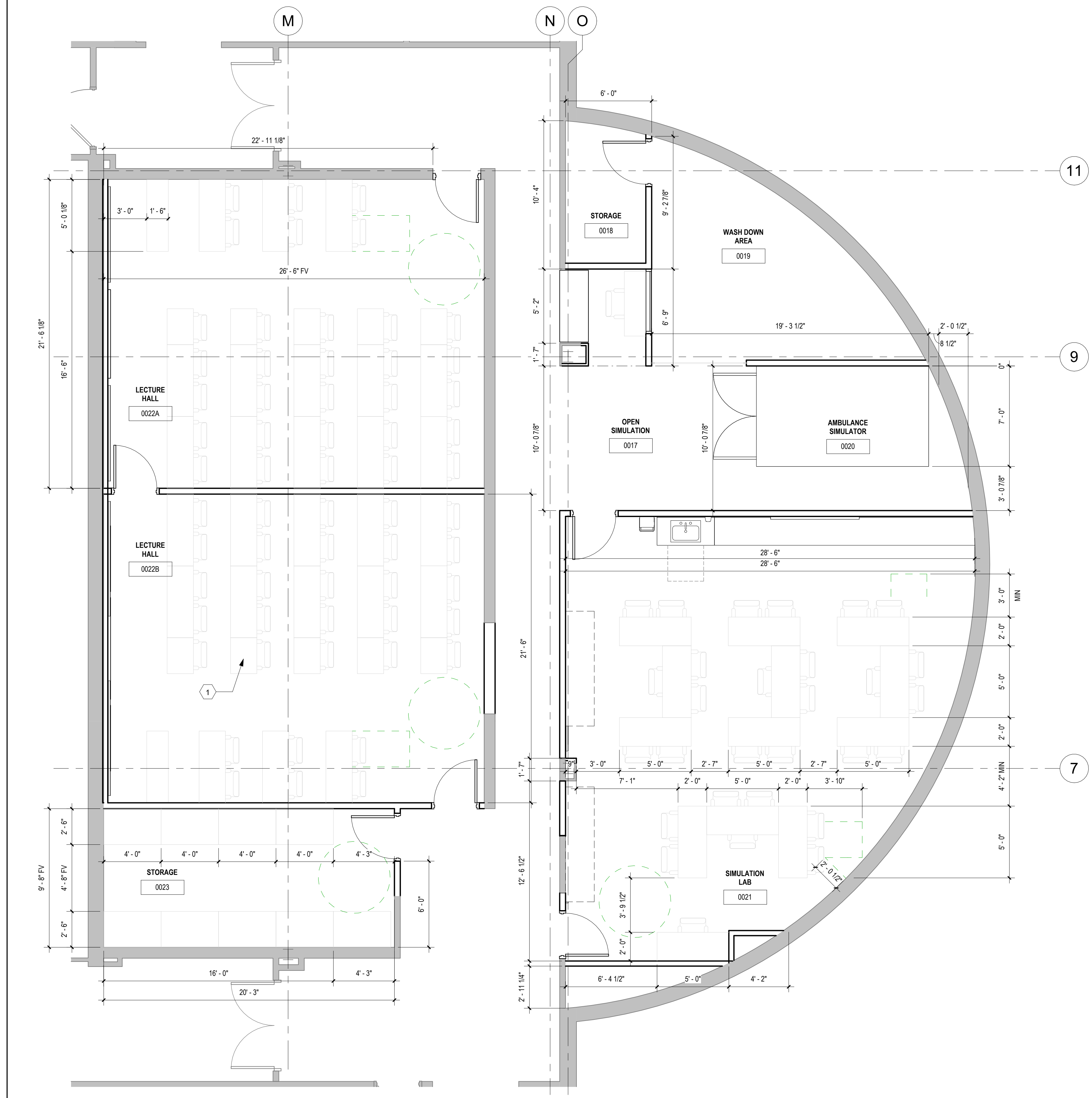
**A-621**

JOB NO.: 24011  
 DATE: 1/20/2025



**1 PARTIAL LOWER LEVEL FURNITURE & EQUIPMENT PLAN**  
 1/8" = 1'-0"





**1 ENLARGED PLAN - ROOMS 0017 TO 0023**  
1/4" = 1'-0"

**GENERAL NOTES**  
A. ALL FURNISHINGS SHOWN ARE PROVIDED BY OWNER, UON. FURNITURE LAYOUT FOR REFERENCE ONLY.

**CODED NOTES** X  
1 POWERED FURNITURE IN LECTURE HALLS - SEE ELECTRICAL DRAWINGS, COORDINATE WITH FURNITURE PROVIDER.

STATE OF OHIO  
THOMAS W. GATES  
12169  
13225  
REGISTERED ARCHITECT

THOMAS W. GATES  
#9812169  
EXPIRES 12/31/2025

**SPGB Architects**  
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PHONE: (614) 771-8963

DESIGNED BY: CW/OZ  
DRAWN BY: CW/OZ  
CHECKED BY: TG

DATE:	REVISIONS:

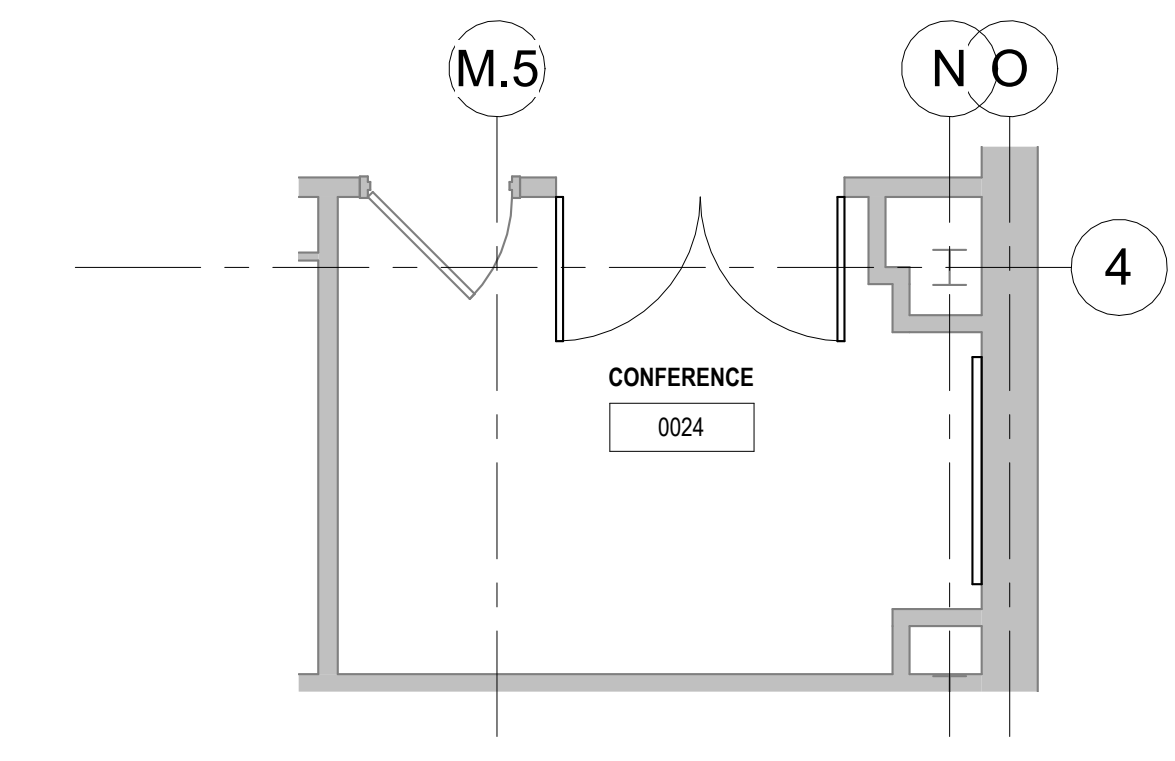
**EMS Classrooms & Sim Lab Bldg. 14**  
Sinclair College  
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Canton, OH 45402

**ENLARGED LOWER LEVEL FURNITURE & EQUIPMENT PLANS**

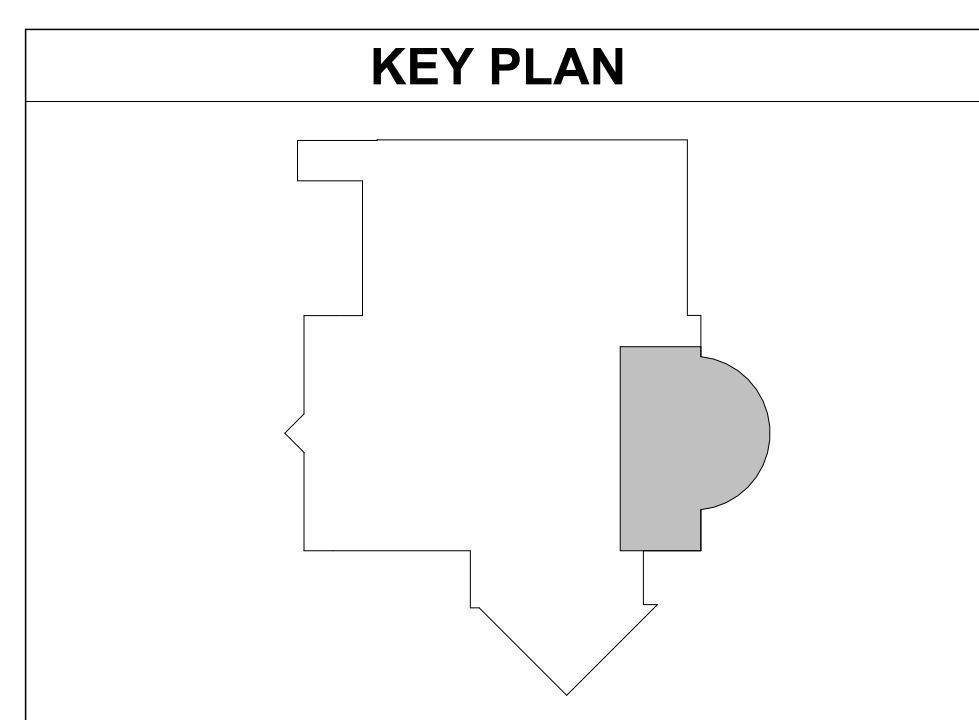
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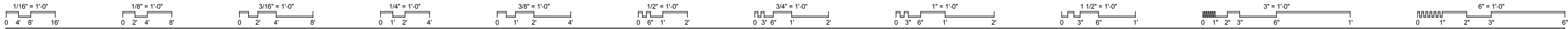
**A-622**

JOB NO.: 24011  
DATE: 1/20/2025



**2 ENLARGED PLAN - CONF RM 0024**  
1/4" = 1'-0"





### VALVES AND FITTINGS

	CHECK VALVE
	SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	CONCENTRIC PIPE REDUCER
	PRESSURE GAUGE
	UNION
	STRAINER
	DRAIN VALVE WITH HOSE END CONNECTION
	END CAP
	SHUTOFF VALVE AND BOX
	SHUTOFF VALVE ON RISER

### FIRE SUPPRESSION PIPING DESIGNATIONS

	EXISTING PIPE TO REMAIN
	EXISTING PIPE TO BE REMOVED
	COMBINATION FIRE SUPPRESSION AND DOMESTIC WATER SERVICE
	SPRINKLER PIPE (DRY)
	FIRE SUPPRESSION (STANDPIPE / SPRINKLER MAIN)
	FIRE SERVICE
	PRE-ACTION / DELUGE SPRINKLER PIPE
	SPRINKLER PIPE (WET)
	SPRINKLER DRAIN PIPE

### GENERAL FLOOR PLAN NOTES

	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE, UNLESS NOTED OTHERWISE
	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
	RISER OR STACK NUMBER
	DETAIL: B = DETAIL DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
	SECTION: 1 = SECTION DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
	FIRE SUPPRESSION HAZARD CLASSIFICATION AND HAZARD CLASSIFICATION GROUP
	EQUIPMENT REFERENCE. LETTER DESIGNATION VARIES. REFER TO SCHEDULES.
	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.
	CONNECT TO EXISTING
	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	*UP TO* SYMBOL (ITEM ON FLOOR ABOVE)

### ABBREVIATIONS

AAP	- AREA ALARM PANEL (MEDICAL GAS)	FOF	- FUEL OIL FLOW	P	- PROPANE GAS
AC	- AIR COMPRESSOR OR AIR CONDITIONER	FOG	- FUEL OIL GAUGE	PC	- PLUMBING CONTRACTOR (DIVISION 22)
ACC	- ACCESS	FOR	- FUEL OIL RETURN	PD	- OR PUMPED CONDENSATE RETURN
ACCU	- AIR COOLED CONDENSING UNIT	FOS	- FUEL OIL SUPPLY	PD	- PUMP DISCHARGE OR PARAPET DRAIN
AD	- ACCESS DOOR OR AREA DRAIN	FOT	- FLAT ON TOP	PIV	- POST INDICATOR VALVE
ADB	- ACID DILUTION BASIN	FTM	- FEET PER MINUTE	PLBG	- PLUMBING
ADJ	- ADJUSTABLE	FR	- FIRE RISER	PS	- PRE-ACTION/DELUGE SPRINKLER
AFF	- ABOVE FINISHED FLOOR	FS	- FLOOR SINK OR FIRE SERVICE	PRESS	- PRESSURE
AFG	- ABOVE FINISHED GRADE	FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)	PS	- PRESSURE
ALT	- ALTERNATE	FT	- FEET	PSF	- POUNDS PER SQUARE FOOT
AP	- ACCESS PANEL	FTG	- FOOTING	PSI	- POUNDS PER SQUARE INCH
APPROX	- APPROXIMATE	G	- GAS OR NATURAL GAS	PSV	- PRESSURE SUSTAINING VALVE
AR	- AIR RECEIVER OR ARGON	GA	- GAUGE	PSIG	- POUNDS PER SQUARE INCH GAUGE
ARCH	- ARCHITECT OR ARCHITECTURAL	GAL	- GALLON	PW	- PURE WATER
ASSY	- ASSEMBLY	GALV	- GALVANIZED	RA	- RETURN AIR
AV	- ACID VENT	GC	- GENERAL TRADES CONTRACTOR	RAD	- RADIUS
AW	- ACID WASTE	GD	- GARAGE DRAINAGE	RCP	- REINFORCED CONCRETE PIPE
BDD	- BACK DRAFT DAMPER	GM	- GALLONS PER MINUTE	RD	- ROOF DRAIN
BFP	- BACKFLOW PREVENTER	GS	- GAS SERVICE	REC	- RECESSED
BLDG	- BUILDING	GW	- GREASE WASTE	REQD	- REQUIRED
BOB	- BOTTOM OF BEAM	H2	- HYDROGEN	RI	- ROUGH IN
BOD	- BOTTOM OF DUCT	H3	- HOSE BIB	RL	- REFRIGERANT LIQUID
BOE	- BOTTOM OF EQUIPMENT	HC	- HVAC CONTRACTOR (DIVISION 23)	RIS	- REVERSE OSMOSIS WATER SUPPLY
BOF	- BOTTOM OF FOOTING	HD	- HUB DRAIN	ROR	- REVERSE OSMOSIS WATER RETURN
BOG	- BOTTOM OF GRILLE	HE	- HELIUM	RPM	- REVOLUTIONS PER MINUTE
BOP	- BOTTOM OF PIPE	HG	- REFRIGERANT HOT GAS	RS	- REFRIGERANT SUCTION
BOT	- BOTTOM	HP	- HORSEPOWER OR HIGH POINT	RV	- RELIEF VALVE
BT	- BATHTUB	HPC	- HIGH PRESSURE CONDENSATE RETURN	S	- SPRINKLER (WET)
BTU	- BRITISH THERMAL UNIT	HPS	- HIGH PRESSURE STEAM RETURN	SA	- SHOCK ARRESTOR OR SUPPLY AIR
BTWH	- BRITISH THERMAL UNIT PER HOUR	HPW	- HIGH PURITY WATER	SAN	- SANITARY OR SANITARY DRAIN
BTWN	- BETWEEN	HPWR	- HIGH PURITY WATER RETURN	SCH	- SCHEDULE
CA	- COMPRESSED AIR	HR	- HOSE REEL	SCW	- SOFT COLD WATER
CB	- CATCH BASIN	HT	- HEAT TRACE	SD	- SPRINKLER DRAIN OR SUBSOIL DRAIN
CBD	- COUNTER BALANCED BACKDRAFT DAMPER	HTR	- HEATER	SH	- SHOWER
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING	SHT	- SHEET
CFM	- CUBIC FEET PER MINUTE	IA	- MEDICAL INSTRUMENT AIR	SK	- SINK
CHS	- CHILLED WATER SUPPLY	ID	- INSIDE DIAMETER	SPEC	- SPECIFICATIONS
CHR	- CHILLED WATER RETURN	INV	- INVERT ELEVATION	SQ	- SQUARE
CI	- CAST IRON	IN	- INCHES	SR	- SUPPLY RISER
CK	- CLINICAL SINK	IV	- INDIRECT VENT	SS	- SANITARY STACK (SOIL OR WASTE) OR STAINLESS STEEL
CLG	- CEILING	IW	- INDIRECT WASTE	STD	- STANDARD
CMU	- CONCRETE MASONRY UNIT	JS	- JANITOR SINK	STM	- STORM OR STORM DRAINAGE
CO	- CLEAN OUT	KEC	- KITCHEN WASTE	STRUC	- STRUCTURAL OR STRUCTURE
CO2	- MEDICAL CARBON DIOXIDE	KEC	- KITCHEN EQUIPMENT CONTRACTOR	SUC	- SITE UTILITY CONTRACTOR
CONN	- CONNECT OR CONNECTION	K	- KITCHEN WASTE	T	- TRENCH DRAIN
CONTR	- CONTRACTOR	KEC	- KITCHEN EQUIPMENT CONTRACTOR	TD	- TRENCH DRAIN
CORR	- CORRIDOR	L	- LENGTH	TEMP	- TEMPERATURE
CS	- CLINICAL SINK OR COLD SOFT WATER	LA	- LABORATORY COMPRESSED AIR	TOB	- TOP OF BEAM
CTR	- CENTER	LAV	- LAVATORY	TOD	- TOP OF DUCT
CU	- COPPER	LBS	- POUNDS	TOE	- TOP OF EQUIPMENT
CWS	- COMBINATION WATER SERVICE OR CONDENSER WATER SUPPLY	LCW	- LABORATORY COLD WATER	TOF	- TOP OF FOOTING
CWR	- CONDENSER WATER RETURN	LEC	- LABORATORY EQUIPMENT CONTRACTOR	TOJ	- TOP OF JOIST
D	- DEPTH OR DRAIN LINE	LHW	- LABORATORY HOT WATER	TOP	- TOP OF PIPE
DCW	- DOMESTIC COLD WATER	LHWR	- LABORATORY HOT WATER RETURN	TOS	- TOP OF SLAB OR TOP OF STEEL
DD	- DECK DRAIN	LPC	- LOW PRESSURE CONDENSATE RETURN	TF	- TRAP FILLER
DET	- DETAIL	LPS	- LOW PRESSURE STEAM SUPPLY	TP	- TRAP PRIMER OR TRAP PRIMER DISCHARGE
DF	- DRINKING FOUNTAIN OR WATER COOLER OR DIESEL FUEL	LV	- LABORATORY VACUUM OR LABORATORY VENT	TW	- TEMPERED WATER
DFU	- DRAINAGE FIXTURE UNIT	LW	- LABORATORY WASTE	TYP	- TYPICAL
DHW	- DOMESTIC HOT WATER	MA	- MEDICAL COMPRESSED AIR	UR	- URINAL
DHWR	- DOMESTIC HOT WATER RETURN	MAP	- MASTER ALARM PANEL (MEDICAL GAS)	UNO	- UNLESS NOTED OTHERWISE
DI	- DEIONIZED WATER	MAX	- MAXIMUM	V	- VENT OR SANITARY SEWER VENT
DIA	- DIAMETER	MB	- MOP BASIN	VAC	- VACUUM
DIM	- DIMENSION	MC	- MECHANICAL CONTRACTOR (DIVISION 23)	VC	- VACUUM CLEANING
DN	- DOWN	MEZZ	- MEZZANINE	VCV	- VACUUM CLEANING VALVE
DS	- DOWN SPOUT OR SPRINKLER (DRY)	MFR	- MANUFACTURER	VE	- VACUUM EXHAUST
DT	- PERFORATED DRAIN TILE	MH	- MANHOLE	VEL	- VELOCITY
DWG	- DRAWING	MIN	- MINIMUM OR MINUTE	VIB	- VALVE IN BOX
EA	- EACH	MISC	- MISCELLANEOUS	VOL	- VOLUME
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)	MTD	- MOUNTED	VP	- VACUUM PUMP
EEW	- EMERGENCY EYE WASH	MTG	- MOUNTING	VST	- VENT STACK
EJ	- EXPANSION JOINT	MPC	- MEDIUM PRESSURE CONDENSATE RETURN	VTR	- VENT THROUGH ROOF
ELEC	- ELECTRICAL	MPS	- MEDIUM PRESSURE STEAM SUPPLY	VR	- VENT RISER
ELEV	- ELEVATOR	MU	- WATER MAKE-UP	W/	- WITH
EQ	- EQUAL	MV	- MEDICAL SURGICAL VACUUM	W/O	- WITHOUT
EQUIP	- EQUIPMENT	N2	- MEDICAL NITROGEN	W	- WASTE
ET	- EXPANSION TANK	NG	- NORMALLY CLOSED	WAGD	- WASTE ANESTHESIA GAS DISPOSAL
ETR	- EXISTING TO REMAIN	NG	- GASOLINE (NON-LEAD)	WC	- WATER CLOSET
ES	- EMERGENCY SHOWER	NIC	- NOT IN CONTRACT	WCO	- WALL CLEANOUT
EQS	- EQUIPMENT SUPPLIER	NO	- NORMALLY OPEN	WH	- WALL HYDRANT OR WATER HEATER
EWC	- ELECTRICAL WATER COOLER	NO	- MEDICAL NITROUS OXIDE	WIV	- WALL INDICATOR VALVE
EXH	- EXHAUST AIR	NOM	- NOMINAL	WS	- WATER SERVICE
EXP	- EXPANSION	NPW	- NON-POTABLE WATER	YCO	- YARD CLEANOUT
EXT	- EXTERIOR	NPT	- NATIONAL PIPE THREAD	ZVC	- ZONE VALVE CABINET
EX	- EXISTING	NTS	- NOT TO SCALE		
F	- FIRE SUPPRESSION (STANDPIPE/SPRINKLER MAIN)	OA	- OUTDOOR AIR		
FCE	- FIRE CONTROL EQUIPMENT	OD	- OUTSIDE DIAMETER OR OVERFLOW DRAIN		
FCO	- FLOOR CLEANOUT	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED		
FD	- FLOOR DRAIN	OFOI	- OWNER FURNISHED OWNER INSTALLED		
FDC	- FIRE DEPARTMENT CONNECTION				
FDV	- FIRE DEPARTMENT VALVE				
FF	- FINISHED FLOOR ELEVATION				
FHC	- FIRE HOSE CABINET				
FLR	- FLOOR				
FM	- FORCE MAIN				
FOB	- FLAT ON BOTTOM				

### FIRE SUPPRESSION DESIGN NOTES

- ALL PIPING IS ABOVE THE CEILING (AT THE UNDERSIDE OF STRUCTURE IN EXPOSED STRUCTURAL AREAS) UNLESS OTHERWISE INDICATED.
- REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS AND GENERAL TRADES CONSTRUCTION INFORMATION. COORDINATE SPRINKLER LOCATIONS WITH CEILING DEVICES (LIGHTING, GRILLES, ETC.) OBTAIN ARCHITECTS APPROVAL OF SPRINKLER LAYOUT PRIOR TO INSTALLATION. FINAL FINISHED APPEARANCE OF WORK MUST BE APPROVED BY THE ARCHITECT.
- CONTRACTOR SHALL MAKE REQUIRED FLOW TESTS, LAY OUT SYSTEMS, OBTAIN APPROVALS FROM THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S INSURER PRIOR TO BEGINNING ANY FABRICATION OR INSTALLATION WORK.
- FIRE SUPPRESSION SPRINKLER SYSTEMS. REFER TO DRAWING AND SPECIFICATIONS FOR COMPLETE SCOPE OF WORK.
  - RENOVATION AREA(S) TO BE TOTALLY SPRINKLERED. EXISTING SPRINKLER SYSTEMS TO BE MODIFIED TO CONFORM TO THE NEW LAYOUT. NEW SPRINKLERS ARE TO BE INTEGRATED INTO THE EXISTING SPRINKLER SYSTEM. ALL EXISTING SPRINKLERS, REMOVED OR DISTURBED IN RENOVATION AREAS, SHALL BE DISPOSED OF AND REPLACED WITH NEW SPRINKLERS.
- BASIS FOR DESIGN OF FIRE SUPPRESSION SYSTEM(S) TO BE:
  - LIGHT HAZARD 1500 SQUARE FEET, 0.10 GPM/SQ. FT., 225 SQUARE FEET MAXIMUM PER SPRINKLER.
  - ORDINARY HAZARD, (GROUP 1) 1500 SQUARE FEET, 0.15 GPM/SQ. FT., 130 SQUARE FEET MAXIMUM PER SPRINKLER.
  - A MINIMUM EXTERIOR STREAM OF 100 GPM SHALL BE INCLUDED IN THE HYDRAULIC CALCULATIONS.

AREA OF OPERATION REDUCTIONS AND INCREASES SHALL BE CALCULATED PER NFPA STANDARDS. VERIFY DENSITIES WITH GOVERNING AUTHORITIES AND OWNER'S INSURER BEFORE PROCEEDING WITH DESIGN OF SYSTEM(S). IF GOVERNING AUTHORITIES OR OWNER'S INSURER REQUIREMENTS ARE MORE STRINGENT THOSE REQUIREMENTS SHALL PREVAIL. ALL AREAS ARE TO BE LIGHT HAZARD CLASSIFICATION, UNLESS OTHERWISE INDICATED ON THE PLANS OR REQUIRED BY THE GOVERNING AUTHORITY.
- PROVIDE THE FOLLOWING SPRINKLER TYPES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PENDENT TYPE SPRINKLERS SHALL BE LOCATED IN THE CENTER OF SQUARE PADS AND AT THE CENTER OR AT QUARTERPOINTS OF THE LONG AXIS OF RECTANGULAR PADS.
  - NEW SPRINKLERS IN RENOVATION AREAS SHALL BE SIMILAR IN APPEARANCE, TEMPERATURE RATING AND K-FACTOR TO EXISTING SPRINKLERS IN ADJACENT SPRINKLERED AREAS. ALL NEW SPRINKLERS TO BE QUICK RESPONSE TYPE.
- ALL PIPE SIZING SHALL BE BASED ON FIRE SUPPRESSION CONTRACTORS HYDRAULIC CALCULATIONS.
- EXERCISE SPECIAL CARE TO COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH ALL OTHER TRADES.

### FIRE SUPPRESSION SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
		CONCEALED PENDENT SPRINKLER
		FIRE DEPARTMENT VALVE
		FIRE HYDRANT
		FLOW SWITCH
		GATE VALVE OS&Y
		INSTITUTIONAL PENDENT SPRINKLER
		PENDENT SPRINKLER
		POST INDICATOR VALVE
		RECESSED PENDENT SPRINKLER
		SIDE WALL SPRINKLER
		SUPERVISED VALVE
		UPRIGHT SPRINKLER

### PIPING SYMBOLS

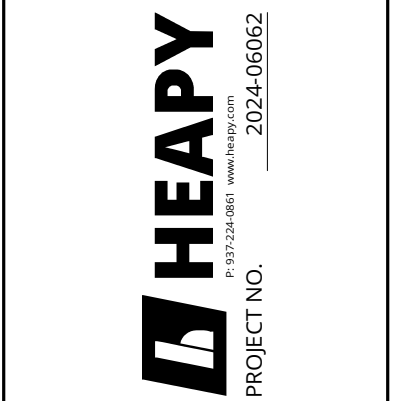
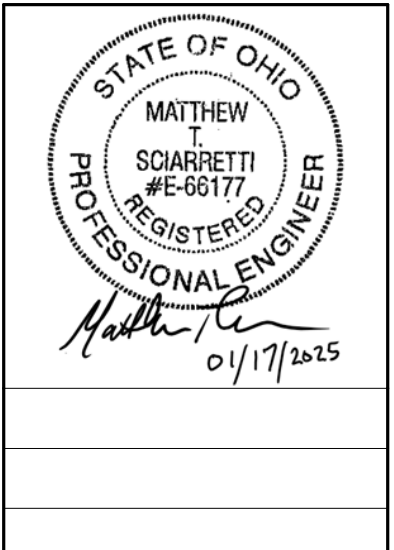
DOUBLE LINE	SINGLE LINE	DESCRIPTION
		BOTTOM CONNECTION (45°)
		BOTTOM CONNECTION (90°)
		BRANCH TEE CONNECTION (NOTE: BULLHEAD TEE'S ARE NOT PERMITTED)
		DIRECTION OF PITCH
		DROP
		ELBOW DOWN
		ELBOW UP
		EXISTING PIPE TO BE REMOVED
		EXISTING PIPE TO REMAIN
		FLOW DIRECTION DESIGNATION
		PIPE RISER
		PUMP
		RISE
		TOP CONNECTION (45°)
		TOP CONNECTION (90°)

**NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.**

**ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.**

### SHEET LIST

SHEET NUMBER	SHEET NAME
F001	FIRE SUPPRESSION LEGEND, GENERAL NOTES & INDEX
F100	LOWER LEVEL FLOOR PLAN - NEW WORK



DESIGNED BY: BMM  
 DRAWN BY: BMM  
 CHECKED BY: MTS

DATE:	REVISIONS:

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**Sinclair College**  
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 Dayton, OH 45402

### FIRE SUPPRESSION LEGEND, GENERAL NOTES & INDEX

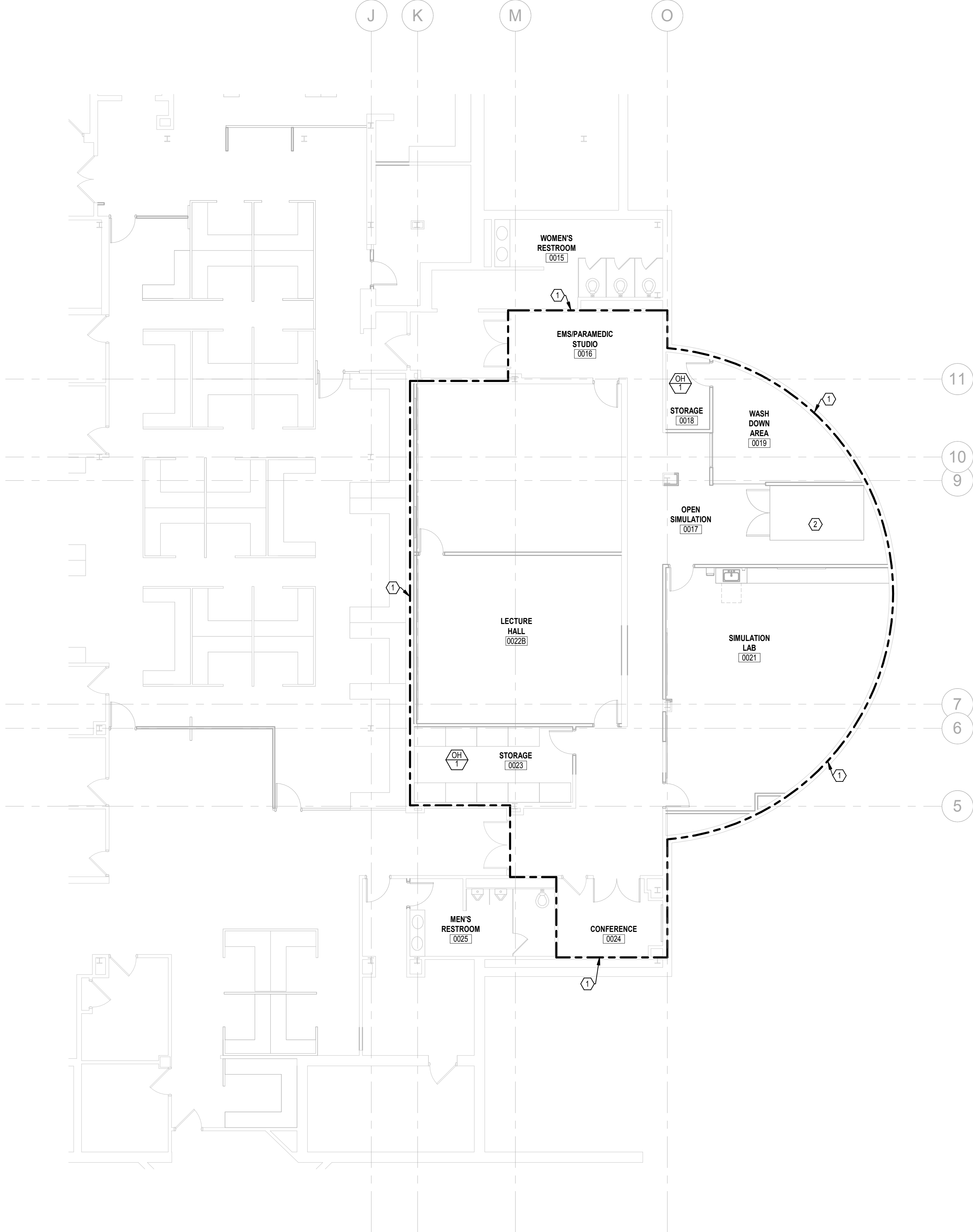
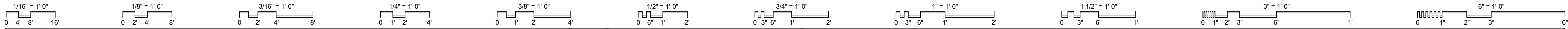
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**F001**

JOB NO.: 24011

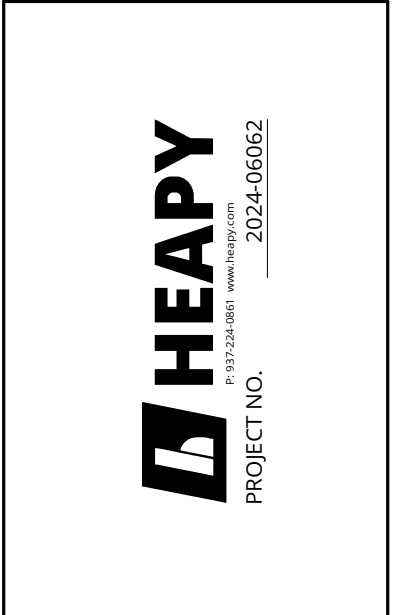
DATE: 01/20/2025





**PLAN NOTES**

- 1 FSC TO PROVIDE MODIFICATIONS OF AND ADDITIONS TO AN EXISTING WET PIPE SPRINKLER SYSTEM IN THIS AREA.
- 2 PROVIDE SPRINKLERS IN CEILING ABOVE EMS SIMULATOR AND PROVIDE SPRINKLER HEAD IN EMS SIMULATOR. COORDINATE SPRINKLER HEAD LOCATION AND TYPE WITH ARCHITECT AND EMS SIMULATOR CONTRACTOR.



DESIGNED BY: BMM  
 DRAWN BY: BMM  
 CHECKED BY: MTS

DATE:			

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**LOWER LEVEL FLOOR PLAN - NEW WORK**

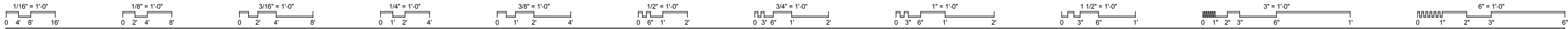
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**F100**

JOB NO.: 24011

DATE: 01/20/2025

**1 FIRE SUPPRESSION LOWER LEVEL**  
 SCALE: 1/8" = 1'-0"



### VALVES AND FITTINGS

	CHECK VALVE
	SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	COMBINATION SHUTOFF AND BALANCING VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	CONCENTRIC PIPE REDUCER
	PRESSURE GAUGE
	TEMPERATURE GAUGE OR THERMOMETER
	UNION
	CLEANOUT
	STRAINER
	STRAINER WITH A BLOW DOWN VALVE AND HOSE CONNECTION
	DRAIN VALVE WITH HOSE END CONNECTION
	AUTOMATIC FLOW CONTROLLER WITH P/T PLUG IN AND OUT
	PRESSURE REGULATING VALVE
	PRESSURE AND TEMPERATURE TEST PLUG
	TRAP PRIMER
	CLEANOUT TO GRADE OR FINISHED FLOOR
	END CAP
	MIXING FAUCET
	HOSE BIB
	WALL HYDRANT
	SHUTOFF VALVE ON RISER

### PLUMBING PIPING DESIGNATIONS

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	EXISTING PIPE TO REMAIN
	EXISTING PIPE TO BE REMOVED
	NATURAL GAS PIPE
	GAS SERVICE
	NON-POTABLE
	(OVERFLOW) SECONDARY STORM DRAINAGE PIPE
	PUMP DISCHARGE PIPE
	SANITARY DRAINAGE PIPE
	STORM DRAINAGE PIPE
	TEMPERED WATER PIPE
	SANITARY SEWER VENT
	WATER SERVICE

### GENERAL FLOOR PLAN NOTES

ELEV. 8' - 0"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE, UNLESS NOTED OTHERWISE
ELEV. 8' - 0"	TOE: 3' - 0"
<td>APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE</td>	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
	RISER OR STACK NUMBER
	DETAIL: B = DETAIL DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
	SECTION: 1 = SECTION DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
	FIRE SUPPRESSION HAZARD CLASSIFICATION AND HAZARD CLASSIFICATION GROUP
	EQUIPMENT REFERENCE. LETTER DESIGNATION VARIES. REFER TO SCHEDULES.
	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.
	CONNECT TO EXISTING
	DEMOLISH TO POINT INDICATED
	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	*UP TO* SYMBOL (ITEM ON FLOOR ABOVE)

### PIPING SYMBOLS

DOUBLE LINE	SINGLE LINE	
		BOTTOM CONNECTION (45°)
		BOTTOM CONNECTION (90°)
		BRANCH TEE CONNECTION (NOTE: BULLHEAD TEES ARE NOT PERMITTED)
		DIRECTION OF PITCH
		DROP
		ELBOW DOWN
		ELBOW UP
		EXISTING PIPE TO BE REMOVED
		EXISTING PIPE TO REMAIN
		FLOW DIRECTION DESIGNATION
		PIPE RISER
		PUMP
		RISE
		TOP CONNECTION (45°)
		TOP CONNECTION (90°)

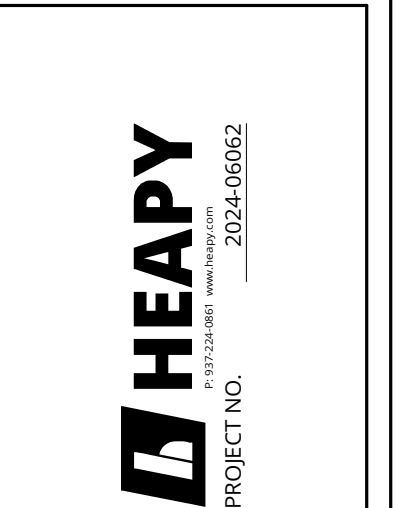
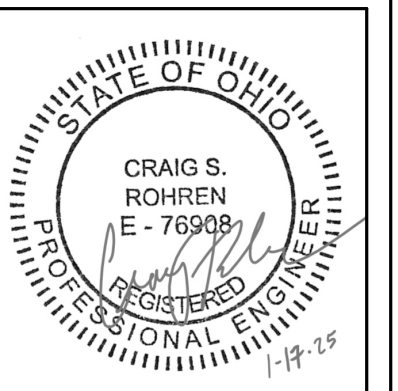
**NOTE:**  
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### ABBREVIATIONS

AAP	- AREA ALARM PANEL (MEDICAL GAS)	FOF	- FUEL OIL FLOW	P	- PROPANE GAS
AC	- AIR COMPRESSOR OR AIR CONDITIONER	FOG	- FUEL OIL GAUGE	PC	- PLUMBING CONTRACTOR (DIVISION 22) OR PUMPED CONDENSATE RETURN
ACC	- ACCESS	FOR	- FUEL OIL RETURN	PD	- PUMP DISCHARGE OR PARAPET DRAIN
ACCU	- AIR COOLED CONDENSING UNIT	FOS	- FUEL OIL SUPPLY	PV	- POST INDICATOR VALVE
AD	- ACCESS DOOR OR AREA DRAIN	FOT	- FLAT ON TOP	PLBG	- PLUMBING
ADB	- ACID DILUTION BASIN	FPM	- FEET PER MINUTE	PS	- PRE-ACTION/DELUGE SPRINKLER
ADJ	- ADJUSTABLE	FR	- FIRE RISER	PRESS	- PRESSURE
AFF	- ABOVE FINISHED FLOOR	FS	- FLOOR SINK OR FIRE SERVICE	PRV	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)
AFG	- ABOVE FINISHED GRADE	FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)	PSF	- POUNDS PER SQUARE FOOT
ALT	- ALTERNATE	FT	- FEET	PSI	- POUNDS PER SQUARE INCH
AP	- ACCESS PANEL	FTG	- FOOTING	PSV	- PRESSURE SUSTAINING VALVE
APPROX	- APPROXIMATE	G	- GAS OR NATURAL GAS	PSIG	- POUNDS PER SQUARE INCH GAUGE
AR	- AIR RECEIVER OR ARGON	GA	- GAUGE	PW	- PURE WATER
ARCH	- ARCHITECT OR ARCHITECTURAL	GAL	- GALLON	RA	- RETURN AIR
ASSY	- ASSEMBLY	GALV	- GALVANIZED	RL	- RADIUS
AV	- ACID VENT	GC	- GENERAL TRADES CONTRACTOR	RCS	- REVERSE OSMOSIS WATER SUPPLY
AW	- ACID WASTE	GD	- GARAGE DRAINAGE	ROR	- REVERSE OSMOSIS WATER RETURN
BDD	- BACK DRAFT DAMPER	GPM	- GALLONS PER MINUTE	RPM	- REVOLUTIONS PER MINUTE
BFP	- BACKFLOW PREVENTER	GS	- GAS SERVICE	RS	- REFRIGERANT SUCTION
BLDG	- BUILDING	GW	- GREASE WASTE	RV	- RELIEF VALVE
BOB	- BOTTOM OF BEAM	H2	- HYDROGEN	S	- SPRINKLER (WET)
BOD	- BOTTOM OF DUCT	H3	- HOSE BIB	SA	- SHOCK ARRESTOR OR SUPPLY AIR
BOE	- BOTTOM OF EQUIPMENT	HC	- HVAC CONTRACTOR (DIVISION 23)	SAN	- SANITARY OR SANITARY DRAIN
BOF	- BOTTOM OF FOOTING	HD	- HUB DRAIN	SCH	- SCHEDULE
BOG	- BOTTOM OF GRILLE	HE	- HELIUM	SCW	- SOFT COLD WATER
BOP	- BOTTOM OF PIPE	HG	- REFRIGERANT HOT GAS	SD	- SPRINKLER DRAIN OR SUBSOIL DRAIN
BOT	- BOTTOM	HT	- HEAT TRACE	SH	- SHOWER
BT	- BATHTUB	HTR	- HEATER	SHT	- SHEET
BTU	- BRITISH THERMAL UNIT	HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING	SK	- SINK
BTUH	- BRITISH THERMAL UNIT PER HOUR	HW	- HOT WATER	SPEC	- SPECIFICATIONS
BTWN	- BETWEEN	IA	- MEDICAL INSTRUMENT AIR	SQ	- SQUARE
CA	- COMPRESSED AIR	ID	- INSIDE DIAMETER	SR	- SUPPLY RISER
CB	- CATCH BASIN	INV	- INVERT ELEVATION	SS	- SANITARY STACK (SOIL OR WASTE) OR STAINLESS STEEL
CBD	- COUNTER BALANCED BACKDRAFT DAMPER	IN	- INCHES	STD	- STANDARD
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	IV	- INDIRECT VENT	STM	- STORM OR STORM DRAINAGE
CFM	- CUBIC FEET PER MINUTE	IW	- INDIRECT WASTE	STRUC	- STRUCTURAL OR STRUCTURE
CHS	- CHILLED WATER SUPPLY	JS	- JANITOR SINK	SUC	- SITE UTILITY CONTRACTOR
CHR	- CHILLED WATER RETURN	K	- KITCHEN WASTE	T	- FUEL TANK VENT
CI	- CAST IRON	KEC	- KITCHEN EQUIPMENT CONTRACTOR	TD	- TRENCH DRAIN
CK	- CLINICAL SINK	L	- LENGTH	TEMP	- TEMPERATURE
CLG	- CEILING	LA	- LABORATORY COMPRESSED AIR	TOB	- TOP OF BEAM
CMU	- CONCRETE MASONRY UNIT	LAV	- LAVATORY	TOD	- TOP OF DUCT
CO	- CLEAN OUT	LBS	- POUNDS	TOE	- TOP OF EQUIPMENT
CO2	- MEDICAL CARBON DIOXIDE	LCW	- LABORATORY COLD WATER	TOF	- TOP OF FOOTING
CONN	- CONNECT OR CONNECTION	LEC	- LABORATORY EQUIPMENT CONTRACTOR	TOJ	- TOP OF JOIST
CONTR	- CONTRACTOR	LHW	- LABORATORY HOT WATER	TOP	- TOP OF PIPE
CORR	- CORRIDOR	LHWR	- LABORATORY HOT WATER RETURN	TOS	- TOP OF SLAB OR TOP OF STEEL
CS	- CLINICAL SINK OR COLD SOFT WATER	LPC	- LOW PRESSURE CONDENSATE RETURN	TF	- TRAP FILLER
CTR	- CENTER	LPS	- LOW PRESSURE CONDENSATE RETURN	TP	- TRAP PRIMER OR TRAP PRIMER DISCHARGE
CU	- COPPER	LV	- LABORATORY VACUUM OR LABORATORY VENT	TW	- TEMPERED WATER
CWS	- COMBINATION WATER SERVICE OR CONDENSER WATER SUPPLY	LW	- LABORATORY WASTE	TYP	- TYPICAL
CWR	- CONDENSER WATER RETURN	MA	- MEDICAL COMPRESSED AIR	UR	- URINAL
D	- DEPTH OR DRAIN LINE	MAP	- MASTER ALARM PANEL (MEDICAL GAS)	UNO	- UNLESS NOTED OTHERWISE
DCW	- DOMESTIC COLD WATER	MAX	- MAXIMUM	V	- VENT OR SANITARY SEWER VENT
DD	- DECK DRAIN	MB	- MOP BASIN	VAC	- VACUUM
DET	- DETAIL	MC	- MECHANICAL CONTRACTOR (DIVISION 23)	VC	- VACUUM CLEANING
DF	- DRINKING FOUNTAIN OR WATER COOLER OR DIESEL FUEL	MEZZ	- MEZZANINE	VCV	- VACUUM CLEANING VALVE
DFU	- DRAINAGE FIXTURE UNIT	MFR	- MANUFACTURER	VE	- VACUUM EXHAUST
DHW	- DOMESTIC HOT WATER	MH	- MANHOLE	VEL	- VELOCITY
DHWR	- DOMESTIC HOT WATER RETURN	MIN	- MINIMUM OR MINUTE	VIB	- VALVE IN BOX
DI	- DEIONIZED WATER	MISC	- MISCELLANEOUS	VOL	- VOLUME
DIA	- DIAMETER	MTD	- MOUNTED	VP	- VACUUM PUMP
DIM	- DIMENSION	MTG	- MOUNTING	VS	- VENT STACK
DN	- DOWN	MPC	- MEDIUM PRESSURE CONDENSATE RETURN	VTR	- VENT THROUGH ROOF
DS	- DOWN SPOUT OR SPRINKLER (DRY)	MPS	- MEDIUM PRESSURE STEAM SUPPLY	VR	- VENT RISER
DT	- PERFORATED DRAIN TILE	MU	- WATER MAKE-UP	W	- WITH
DWG	- DRAWING	MV	- MEDICAL SURGICAL VACUUM	W/O	- WITHOUT
EA	- EACH	N2	- MEDICAL NITROGEN	W	- WASTE
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)	N/C	- NORMALLY CLOSED	WAGD	- WASTE ANESTHESIA GAS DISPOSAL
EEW	- EMERGENCY EYE WASH	NG	- GASOLINE (NON-LEAD)	WC	- WATER CLOSET
EJ	- EXPANSION JOINT	NIC	- NOT IN CONTRACT	WCO	- WALL CLEANOUT
ELEC	- ELECTRICAL	N/O	- NORMALLY OPEN	WH	- WALL HYDRANT OR WATER HEATER
ELEV	- ELEVATOR	NO	- MEDICAL NITROUS OXIDE	WIV	- WALL INDICATOR VALVE
EQ	- EQUAL	NOM	- NOMINAL	WS	- WATER SERVICE
EQUIP	- EQUIPMENT	NPW	- NON-POTABLE WATER	YCO	- YARD CLEANOUT
ET	- EXPANSION TANK	NPT	- NATIONAL PIPE THREAD	ZVC	- ZONE VALVE CABINET
ETR	- EXISTING TO REMAIN	NTS	- NOT TO SCALE		
ES	- EMERGENCY SHOWER	O2	- MEDICAL OXYGEN		
EQS	- EQUIPMENT SUPPLIER	OA	- OUTDOOR AIR		
EWC	- ELECTRICAL WATER COOLER	OD	- OUTSIDE DIAMETER OR OVERFLOW DRAIN		
EXH	- EXHAUST AIR	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED		
EXP	- EXPANSION	OFOI	- OWNER FURNISHED OWNER INSTALLED		
EXT	- EXTERIOR				
EX	- EXISTING				

### GENERAL NOTES

- ALL PIPING IS ABOVE THE CEILING (AT THE UNDERSIDE OF STRUCTURE IN EXPOSED STRUCTURE AREAS), UNLESS OTHERWISE NOTED.
- REFER TO SCHEDULES, DETAILS AND DIAGRAMS FOR PIPING, PIPE SIZES AND PIPELINE DEVICES NOT INDICATED ON THE FLOOR PLAN.
- ABOVE CEILING UTILITY SPACE IS LIMITED. COORDINATION WITH ALL TRADES IS CRITICAL. PRIOR TO INSTALLATION ON ANY WORK.
- LOCATIONS AND SIZES OF EXISTING PIPING HAVE BEEN DETERMINED FROM A REVIEW OF EXISTING DRAWINGS AND/OR SITE INSPECTION, WHERE POSSIBLE. FIELD VERIFICATION OF EXACT LOCATIONS, ELEVATIONS, INVERTS, SIZES, DIRECTION OF FLOW, ETC. SHALL BE REQUIRED PRIOR TO BEGINNING NEW WORK.
- ALL PIPING SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED, OR REMOVED BACK TO POINTS OF CONNECTION IN NEW WORK. INACCESSIBLE PIPING, WHERE SO NOTED, TO BE ABANDONED SHALL BE DISCONNECTED FROM ACTIVE SYSTEMS AND CAPPED OR PLUGGED IN CONCEALED LOCATIONS.
- NEW CONNECTIONS TO EXISTING PIPING SHALL BE WITH THE SAME SIZE AS THE EXISTING PIPING, UNLESS OTHERWISE NOTED.



DESIGNED BY: BMM

DRAWN BY: BMM

CHECKED BY: DJT

DATE:				

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**PLUMBING LEGEND, GENERAL NOTES & INDEX**

SCALE: 1/2" = 1'-0"

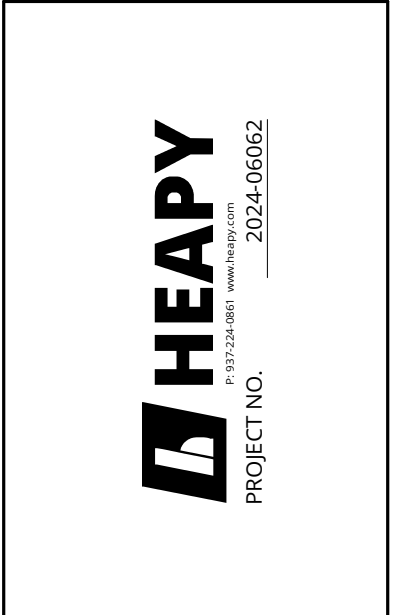
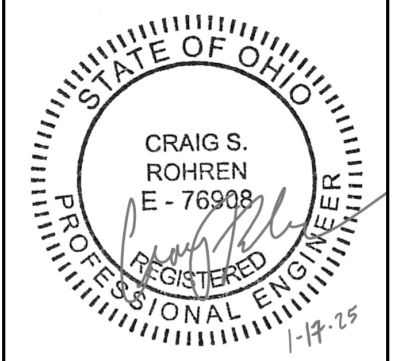
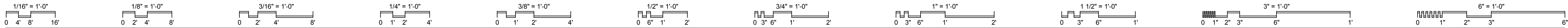
**P001**

JOB NO.: 24011

DATE: 01/20/2025

SHEET LIST	
SHEET NUMBER	SHEET NAME
P001	PLUMBING LEGEND, GENERAL NOTES & INDEX
P002	PLUMBING SCHEDULES AND DETAILS
P100	LOWER LEVEL FLOOR PLAN - NEW WORK





DESIGNED BY: BMM  
 DRAWN BY: BMM  
 CHECKED BY: DJT

DATE:	REVISIONS:

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**PLUMBING SCHEDULES AND DETAILS**

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

**P002**

JOB NO.: 24011  
 DATE: 01/20/2025

### PLUMBING FIXTURES

CATALOG NUMBERS INDICATED ARE THOSE OF THE FIRST NAMED MANUFACTURER IN EACH CATEGORY LISTED BELOW - ADDITIONAL MANUFACTURERS ARE LISTED IN PARENTHESIS

<b>A. AMERICAN STD. (KÖHLER, TOTO, ZURN)</b>	<b>E. T&amp;S BRASS (TOTO, CHICAGO, ZURN)</b>	<b>I. ELKAY (JUST WITH LUG AND SCREW)</b>	<b>M. IN-SINK ERATOR (OR APPROVED EQUAL)</b>
<b>B. SLOAN (DELANY, ZURN)</b>	<b>F. GUY GRAY (QATEY, PLASTIC ODDITIES)</b>	<b>J. HALSEY TAYLOR (ACORN, ELKAY, HAWS, OASIS)</b>	<b>N. GUARDIAN (BRADLEY, SPEAKMAN, HAWS)</b>
<b>C. BEMIS (BENEKE, KÖHLER, AMERICAN STD.)</b>	<b>G. McGUIRE (EBC, DEARBORN BRASS, ZURN)</b>	<b>K. LEONARD (POWERS, SYMMONS)</b>	<b>O. SPEAKMAN (CHICAGO)</b>
<b>D. SMITH (WADE, ZURN, JOSAM, WATTS)</b>	<b>H. FIAT (STERN WILLIAMS, CREATIVE IND., MUSTEE, ZURN)</b>	<b>L. AQUARIUS (AQUA-BATH, KÖHLER, COMFORT DESIGNS)</b>	<b>P. TRUEBRO (ZURN, PLUMBEREX)</b>

**SCHEDULE ABBREVIATIONS:**

ADA HANDICAP ACCESSIBLE	QD QUICK DISCONNECT
BO BACK OUTLET	SB SINGLE BOWL
BPW BED PAN WASHER	SST STAINLESS STEEL
DS DOUBLE BOWL	UCM UNDER COUNTER MOUNT
FS FLOOR SET	VB VACUUM BREAKER
FT FLUSH TANK	VR VANDAL RESISTANT
FV FLUSH VALVE	WB WRIST BLADE
GN GOOSENECK	WH WALL HUNG
HS HAND SHOWER	

**GENERAL NOTE:**  
 1. SUPPLY PIPE SIZES IN THIS SCHEDULE ARE FIXTURE OR SUPPLY STOP CONNECTION SIZES. DOMESTIC COLD AND HOT WATER SUPPLY PIPE SIZES SERVING FIXTURES SHALL BE, AT A MINIMUM, THE SIZES LISTED UNLESS NOTED OTHERWISE OR LABELED ON THE FLOOR PLANS.

**NOTES:**  
 1. FIXTURE AND INSTALLATION SHALL COMPLY WITH ANSI A117.1 ACCESSIBILITY REQUIREMENTS.

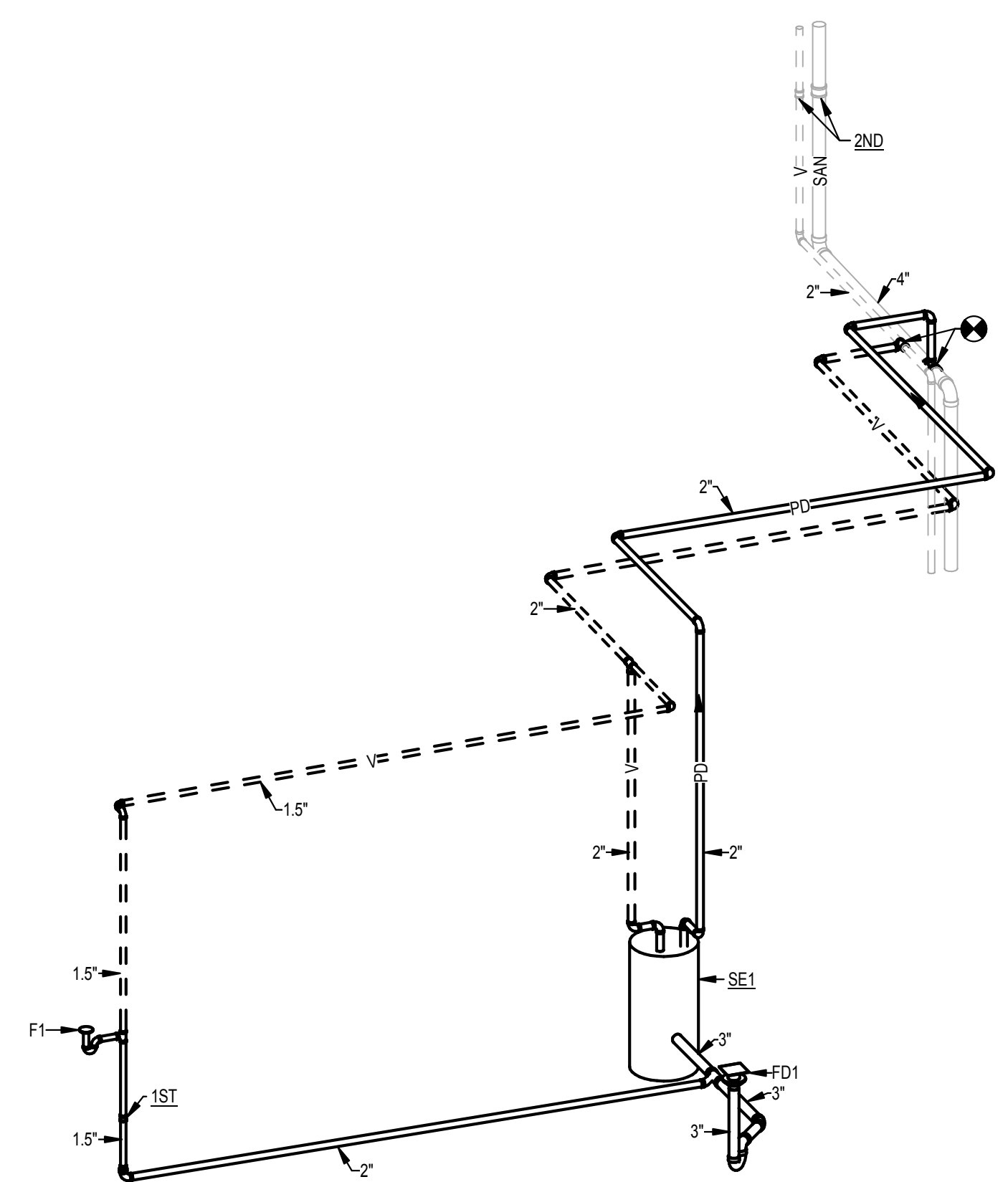
MARK	DESCRIPTION	MOUNTING HEIGHT	FLOW		CONTROL		SUPPLY		WASTE & VENT					FIXTURE		SUPPLY TRIM		SUPPLY / STOP		WASTE TRIM		TRAP / FIX. DR.		MISC.		SEE NOTE	
			GPM	GPF	MANUAL	METERING	ELECTRIC	BATTERY	COLD WATER	HOT WATER	TEMPERED	NAT. GAS	FIX. OUTLET	TRAP	FIX. DRAIN	WASTE-MIN.	VENT-MIN.	INDIRECT	AIR GAP	AIR BREAK	MFR.	CAT. NO.	MFR.	CAT. NO.	MFR.		CAT. NO.
D1	WALL MOUNT FAUCET	36" AFF			•		0.5"	0.5"																			
F1	SINK / SST / CT / 25"x21" / ADA	CTOP	2.2		•		0.5"	0.5"		1.5"	1.5"	1.5"	1.5"														1

### DRAINS

**GENERAL NOTES:**  
 1. ALL DRAINS ARE MANUFACTURED BY J.R. SMITH UNLESS NOTED OTHERWISE.  
 2. ADDITIONAL ACCEPTABLE MANUFACTURERS ARE ZURN, SIOUX CHIEF, MIFAB, WATTS, WADE, AND JOSAM.

**NOTES:**  
 1. PROVIDE JAY R SMITH QUAD CLOSE TRAP SEAL OR APPROVED EQUAL.

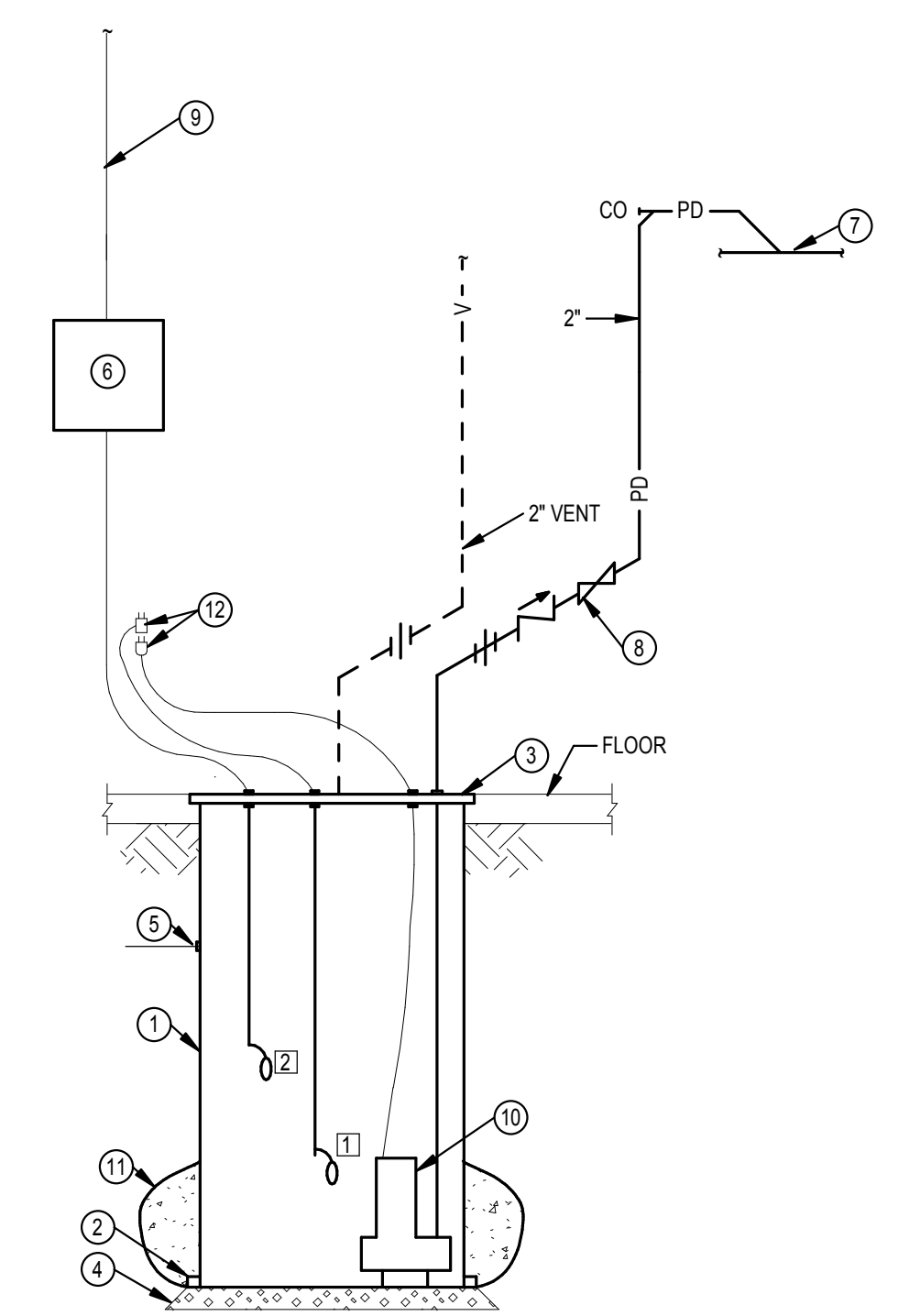
MARK	CATALOG NOS.	TYPE	BODY	OUTLET	STRAINER / GRATE		TOP FINISH		ADDITIONAL FEATURES										SEE NOTE																				
					SIZE	SIZE	DUCTILE IRON	ANCHOR FLANGE	FLASHING CLAMP	DBL DRAINAGE	SED. BUCKET	TRAP PRIMER CON.	AUX. STRAINER	VARIABLE EXTENSION	SUMP RECEIVER	UDECK CLAMP	INTERIOR WATER DAM	EXTERIOR WATER DAM																					
FD1	2005-B	• FLOOR	• ROOF	• AREAWAY	• CAST IRON	• BRASS	• ACID RESIST.	• STAINLESS STEEL	• PLASTIC	• SIZE	• BOTTOM	• SIDE	• DIAMETER / WIDTH	• LENGTH	• ADJUSTABLE	• FLAT	• DOME	• RECESSED	• FUNNEL	• HINGED	• STAINLESS STEEL	• NICKLE-BRONZE	• CAST IRON	• ACID RESIST.	• STAINLESS STEEL	• PLASTIC	• DUCTILE IRON	• ANCHOR FLANGE	• FLASHING CLAMP	• DBL DRAINAGE	• SED. BUCKET	• TRAP PRIMER CON.	• AUX. STRAINER	• VARIABLE EXTENSION	• SUMP RECEIVER	• UDECK CLAMP	• INTERIOR WATER DAM	• EXTERIOR WATER DAM	1



**2 WASTE & VENT**  
 SCALE: NONE

### EQUIPMENT DATA

**SE1 SEWAGE EJECTOR - SIMPLEX, SUBMERSIBLE TYPE**  
 CAPACITY: 21 GPM AT 18 FT. HEAD  
 MOTOR: 0.5 HP - 120 VOLT - 1 PHASE  
 DISCHARGE: 2"  
 BASIS OF DESIGN: ZOELLER 282 SERIES  
 BASIN: 24" DIAMETER X 48" DEEP

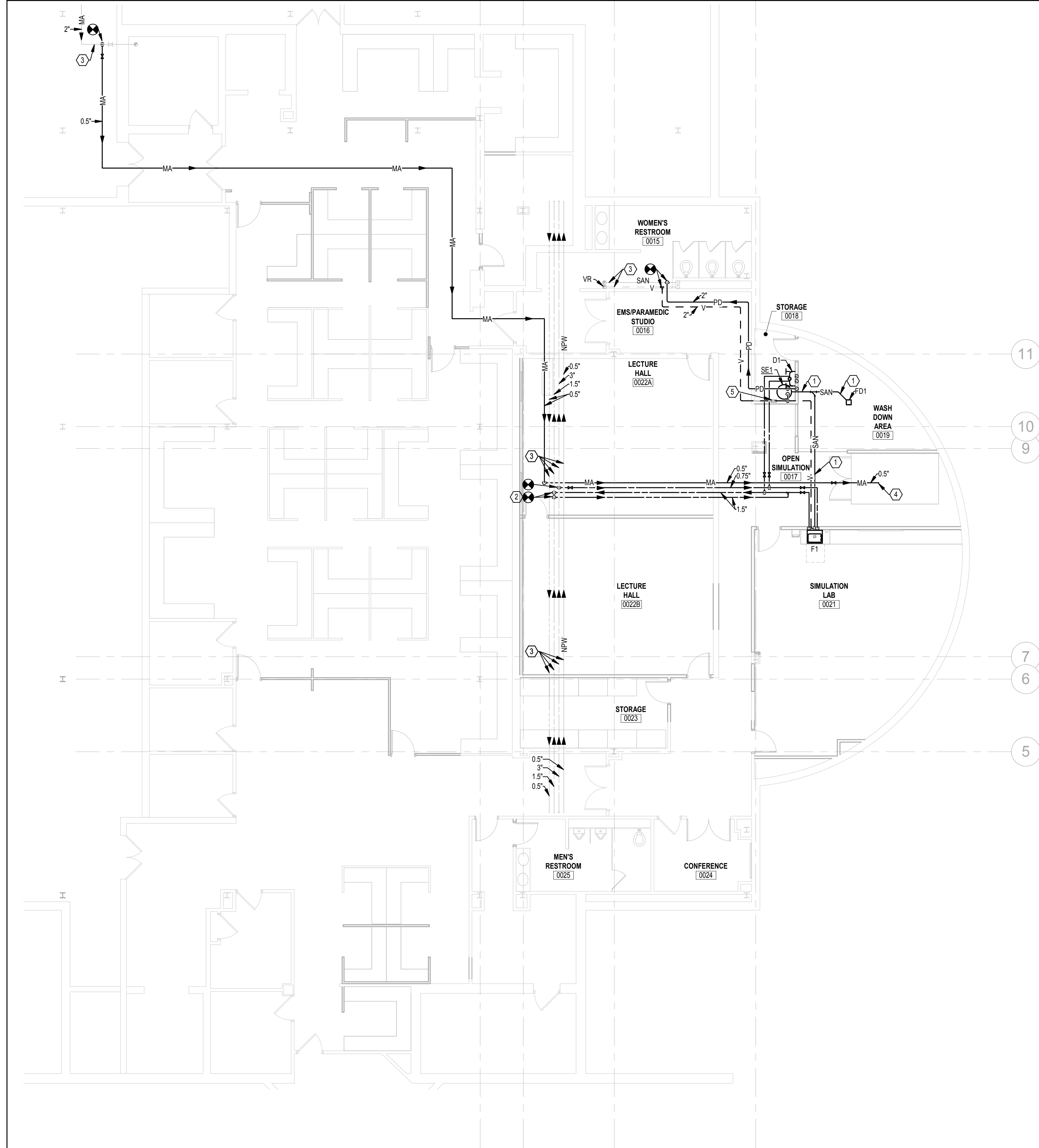
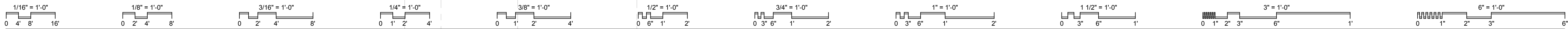


### NOTES

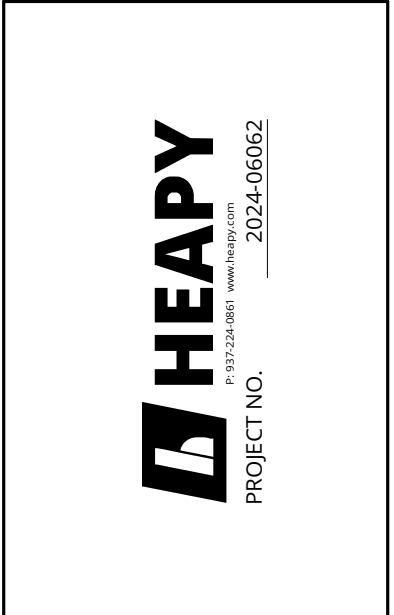
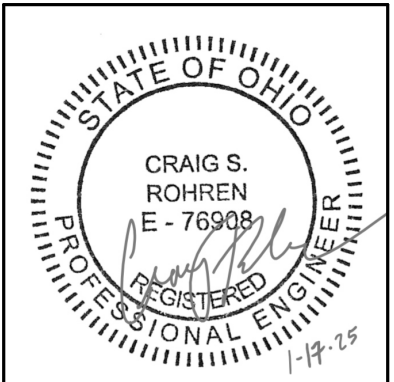
- BASIN
- ANTI-FLOATATION FLANGE
- BASIN LID
- 6" SAND BED LEVEL BASIN
- INLET PIPE. SEE FLOOR PLAN FOR NUMBER AND INVERT(S).
- ALARM PANEL. MOUNT 60" AFF TO TOP OF PANEL.
- CONNECT TO TOP OF GRAVITY DRAINAGE PIPE.
- INSTALL PIPE ACCESSORIES IN HORIZONTAL PORTION OF PIPING.
- POWER WIRING IN CONDUIT TO ALARM PANEL.
- PUMP
- CONCRETE FILL EVENLY DISTRIBUTED AROUND BASIN.
- PUMP POWER CORD AND PLUG AND PIGGYBACK FLOAT SWITCH. CONNECT TO EC PROVIDED RECEPTACLE.

- CONTROL FLOATS
- 1 PUMPS ON/OFF
- 2 HIGH LEVEL ALARM

**1 INTERIOR DRAINAGE PUMP "SE1"**  
 SCALE: NONE



- PLAN NOTES**
1. PIPING IN GRADE BELOW FINISHED FLOOR. CUT AND PATCH FLOOR AS REQUIRED FOR INSTALLATION.
  2. CUT HW PIPING AND EXTEND HOT WATER LOOP AS SHOWN.
  3. EXISTING PIPING TO REMAIN.
  4. EXTEND 0.5" MA TO AMBULANCE SIMULATOR. COORDINATE CONNECTION REQUIREMENTS IN FIELD.
  5. SEWAGE EJECTOR HIGH WATER ALARM.



DESIGNED BY: BMM  
 DRAWN BY: BMM  
 CHECKED BY: DJT

DATE:			

**EMS Classrooms & Sim Lab Bldg. 14**  
 Sinclair College  
 444 West 38th Street  
 Dayton, OH 45402

**LOWER LEVEL  
 FLOOR PLAN - NEW  
 WORK**

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

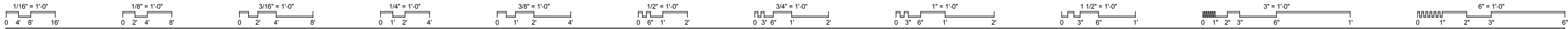
**P100**

JOB NO.: 24011  
 DATE: 01/20/2025

**1 PLUMBING LOWER LEVEL**  
 SCALE: 1/8" = 1'-0"







### DUCTWORK SYMBOLS

RECTANGULAR	ROUND / OVAL	
		ROUND BRANCH DUCTWORK
		RECTANGULAR BRANCH DUCTWORK
		SQUARE TEE WITH TURNING VANES NOTE: ALL SQUARE ELBOWS IN RECTANGULAR AND ROUND / OVAL DUCTWORK SHALL BE PROVIDED WITH TURNING VANES. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
		RADIUS'D TEE
		RADIUS'D BRANCH
		UNLESS NOTED OTHERWISE ON DRAWINGS, 15" MAX FOR DIVERGING, 30" MAX FOR CONVERGING TRANSITION
		EXISTING DUCTWORK TO REMAIN
		EXISTING DUCTWORK TO BE REMOVED
		RETURN AIR, RELIEF AIR, OR TRANSFER AIR DUCTWORK (UP AND DOWN) RADIUS'D OR SQUARE WITH TURNING VANES.
		SUPPLY AIR OR OUTDOOR AIR DUCTWORK (UP AND DOWN) RADIUS'D OR SQUARE WITH TURNING VANES.
		EXHAUST AIR DUCTWORK (UP AND DOWN) RADIUS'D OR SQUARE WITH TURNING VANES.
		RECTANGULAR AND ROUND / OVAL DUCTWORK RISE / DROP WITH 90° RADIUS'D OR SQUARE ELBOWS AND TURNING VANES.
		RADIUS ELBOW
		90° SQUARE ELBOW (WITH TURNING VANES) NOTE: ALL SQUARE ELBOWS IN RECTANGULAR AND ROUND DUCTWORK SHALL BE PROVIDED WITH TURNING VANES.
		SQUARE THROAT / RADIUS HEEL FITTINGS NOT ACCEPTABLE
		ACCESS DOOR OR PANEL
		DUCTWORK RISE IN DIRECTION OF AIR FLOW
		DUCTWORK DROP IN DIRECTION OF AIR FLOW
		FLEXIBLE DUCTWORK
		DUCTWORK WITH ACOUSTICAL LINER. LISTED DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
		FLEXIBLE CONNECTION
		DUCTWORK CONSTRUCTED OF SPECIAL MATERIAL AS NOTED
		DIRECTION OF PITCH
		RECTANGULAR DUCTWORK DIMENSIONS (W x H)
		ROUND DUCTWORK DIMENSIONS (DIA)
		OVAL DUCTWORK DIMENSIONS (W x H)

### MISC SYMBOLS

	CARBON DIOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	CARBON MONOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	DIFFERENTIAL PRESSURE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	HUMIDITY SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	TEMPERATURE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	TEMPERATURE SENSOR MOUNTED IN CEILING PLENUM.
	STATIC PRESSURE SENSOR.
	SPACE TEMPERATURE SENSOR / THERMOSTAT. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	EMERGENCY SHUTOFF STATION. 46" MOUNTING HEIGHT UNLESS NOTED OTHERWISE.

### DUCTWORK DEVICE SYMBOLS

	AIR DEVICE. A3 = DESIGNATION (REFER TO FLOOR PLANS AND AIR DEVICE SCHEDULE FOR VARIOUS DESIGNATIONS). 10ø = NECK SIZE (IN INCHES). 300 = REQUIRED CFM. ALL AIR DEVICE DISCHARGE 4-WAY UNLESS NOTED WITH FLOW ARROWS. AIR DEVICE SHOWN IS 2-WAY SIDE THROW. METHOD OF IDENTIFICATION ALSO APPLIES TO OTHER CEILING MOUNTED AIR DEVICES.
	WALL OR DUCTWORK MOUNTED AIR DEVICE. SG1 = DESIGNATION (REFER TO AIR DEVICE SCHEDULE). 20x12 = DUCT CONNECTION SIZE (IN INCHES). 300 = REQUIRED CFM. 9'-0" = MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF GRILLE.
	MANUAL BALANCING DAMPER WITH LOCKING DEVICE
	BDD = BACK DRAFT DAMPER CBD = COUNTER-BALANCED BACK DRAFT DAMPER
	FIRE DAMPER A = TYPE (REFER TO FLOOR PLANS FOR VARIOUS TYPES) D OR S = DYNAMIC OR STATIC
	SD = SMOKE DAMPER FS = COMBINATION FIRE - SMOKE DAMPER MDD = MOTORIZED DAMPER AFMS = AIR FLOW MEASURING STATION
	DUCT MOUNTED SMOKE DETECTOR. COORDINATE LOCATION.
	HUMIDITY SENSOR - DUCT MOUNTED
	STATIC PRESSURE SENSOR - DUCT MOUNTED
	CARBON DIOXIDE SENSOR - DUCT MOUNTED
	TEMPERATURE SENSOR - DUCT MOUNTED

### GENERAL FLOOR PLAN NOTES

	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.
	EQUIPMENT REFERENCE. LETTER DESIGNATION VARIES. REFER TO SCHEDULES.
	RISER OR STACK NUMBER
	DETAIL: B = DETAIL DESIGNATION H2 = SHEET WHERE DETAIL IS LOCATED
	SECTION: 1 = SECTION DESIGNATION H2 = SHEET WHERE DETAIL IS LOCATED
	"UP TO" SYMBOL (ITEM ON FLOOR ABOVE)
	TOE: 3' - 0" BOE: 0' - 6" APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
	10" ELEV: 8' - 0" 10" ELEV: 8' - 0" APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE, UNLESS NOTED OTHERWISE
	20x20 TOD: 8' - 10" 20x20 BOD: 7' - 2" APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF DUCTWORK, UNLESS NOTED OTHERWISE
	UC-X DOOR UNDERCUT. X = HEIGHT OF UNDERCUT IN INCHES; 0.75 INCH UNDERCUT IF NO HEIGHT IS NOTED. COORDINATE WITH GC.
	DL-1 DOOR LOUVER. 1 = SQUARE FEET OF LOUVER.
	CONNECT TO EXISTING
	DEMOLISH TO POINT INDICATED

**NOTE:**  
ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.  
ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

### ABBREVIATIONS

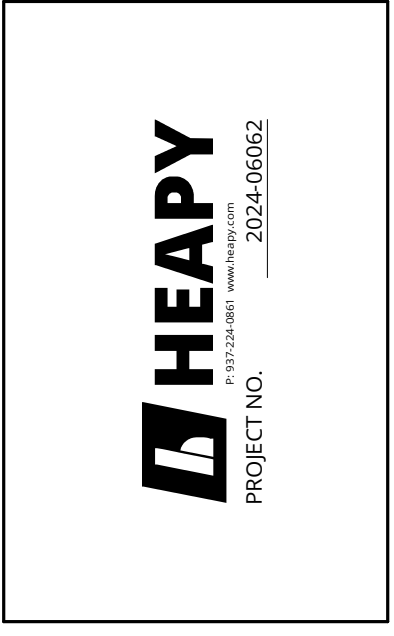
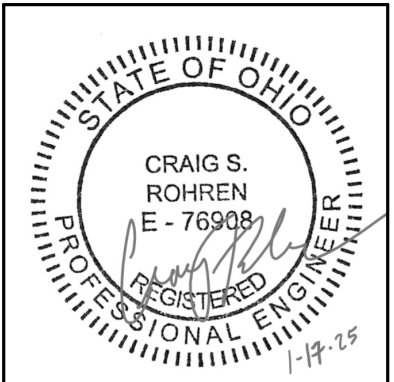
AC	- AIR COMPRESSOR OR AIR CONDITIONER	ID	- INSIDE DIAMETER
ACCU	- AIR COOLED CONDENSING UNIT	INV	- INVERT ELEVATION
AD	- ACCESS DOOR OR AREA DRAIN	IN	- INCHES
ADJ	- ADJUSTABLE	KEC	- KITCHEN EQUIPMENT CONTRACTOR
AFF	- ABOVE FINISHED FLOOR	L	- LENGTH
AFG	- ABOVE FINISHED GRADE	LAT	- LEAVING AIR TEMPERATURE
AFMS	- AIR FLOW MEASURING STATION	LAV	- LAVATORY
ALT	- ALTERNATE	LBS	- POUNDS
AP	- ACCESS PANEL	LPC	- LOW PRESSURE CONDENSATE RETURN
APPROX	- APPROXIMATE	LPS	- LOW PRESSURE STEAM SUPPLY
ARCH	- ARCHITECT OR ARCHITECTURAL	LWT	- LEAVING WATER TEMPERATURE
ASSY	- ASSEMBLY	MAX	- MAXIMUM
ATC	- AUTOMATIC TEMPERATURE CONTROL (SYNONYMOUS WITH BAS)	MDD	- MOTORIZED DAMPER
BAS	- BUILDING AUTOMATION SYSTEM	MEZZ	- MEZZANINE
BDD	- BACK DRAFT DAMPER	MFR	- MANUFACTURER
BFP	- BACKFLOW PREVENTER	MH	- MANHOLE
BLDG	- BUILDING	MIN	- MINIMUM OR MINUTE
BOB	- BOTTOM OF BEAM	MISC	- MISCELLANEOUS
BOD	- BOTTOM OF DUCT	MTD	- MOUNTED
BOE	- BOTTOM OF EQUIPMENT	MTG	- MOUNTING
BOF	- BOTTOM OF FOOTING	MPC	- MEDIUM PRESSURE CONDENSATE RETURN
BOG	- BOTTOM OF GRILLE	MPS	- MEDIUM PRESSURE STEAM SUPPLY
BOP	- BOTTOM OF PIPE	MU	- WATER MAKE-UP
BOT	- BOTTOM	NIC	- NORMALLY CLOSED
BTU	- BRITISH THERMAL UNIT	NIC	- NOT IN CONTRACT
BTUH	- BRITISH THERMAL UNIT PER HOUR	N/O	- NORMALLY OPEN
CBD	- COUNTER BALANCED BACKDRAFT DAMPER	NOM	- NOMINAL
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	NPT	- NATIONAL PIPE THREAD
CFM	- CUBIC FEET PER MINUTE	NTS	- NOT TO SCALE
CHS	- CHILLED WATER SUPPLY	OA	- OUTDOOR AIR
CHR	- CHILLED WATER RETURN	OB	- OPPOSED BLADE DAMPER
CHGR	- CHILLED WATER GLYCOL SOLUTION RETURN	OD	- OUTSIDE DIAMETER
CHGS	- CHILLED WATER GLYCOL SOLUTION SUPPLY	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
CLG	- CEILING	OFOI	- OWNER FURNISHED OWNER INSTALLED
CMU	- CONCRETE MASONRY UNIT	P	- PROPANE GAS
CO	- CLEAN OUT	PC	- PLUMBING CONTRACTOR (DIVISION 22) OR PLUMBED CONDENSATE RETURN
CO2	- CARBON DIOXIDE	PLBG	- PLUMBING
CONN	- CONNECT OR CONNECTION	PRESS	- PRESSURE
CONTR	- CONTRACTOR	PRV	- PRESSURE REGULATING VALVE
CTR	- CENTER	PSF	- POUNDS PER SQUARE FOOT
CU	- COPPER	PSI	- POUNDS PER SQUARE INCH
CW	- COLD WATER	PSIG	- POUNDS PER SQUARE INCH GAUGE
CWR	- CONDENSER WATER RETURN	RA	- RETURN AIR
CWS	- CONDENSER WATER SUPPLY	RAD	- RADIUS
D	- DRAIN LINE	RD	- REFLECTED CEILING PLAN
DB	- DRY BULB	RD	- ROOF DRAIN
DDC	- DIRECT DIGITAL CONTROLS	REC	- RECESSED
DI	- DEIONIZED WATER	REQD	- REQUIRED
DIA	- DIAMETER	RI	- ROUGH IN
DIM	- DIMENSION	RL	- REFRIGERANT LIQUID
DN	- DOWN	ROS	- REVERSE OSMOSIS WATER SUPPLY
DWG	- DRAWING	ROR	- REVERSE OSMOSIS WATER RETURN
EA	- EACH OR EXHAUST AIR	RPM	- REVOLUTIONS PER MINUTE
EAT	- ENTERING AIR TEMPERATURE	RS	- REFRIGERANT SUCTION
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)	S	- SPRINKLER (WET)
EJ	- EXHAUST FAN	SA	- SUPPLY AIR
EJ	- EXPANSION JOINT	SAN	- SANITARY OR SANITARY DRAIN
ELEC	- ELECTRICAL	SCH	- SCHEDULE
ELEV	- ELEVATOR	SCW	- SOFT COLD WATER
EQUIP	- EQUIPMENT	SHT	- SHEET
ET	- EXPANSION TANK	SPEC	- SPECIFICATIONS
ETR	- EXISTING TO REMAIN	SQ	- SQUARE
EQS	- EQUIPMENT SUPPLIER	SR	- SUPPLY RISER
EWT	- ENTERING WATER TEMPERATURE	SRV	- SAFETY RELIEF VALVE
EXH	- EXHAUST	SS	- STAINLESS STEEL
EXP	- EXPANSION	STD	- STANDARD
EXT	- EXTERIOR	STM	- STORM OR STORM DRAINAGE
EX	- EXISTING	STRUC	- STRUCTURAL OR STRUCTURE
FD	- FLOOR DRAIN	SUC	- SITE UTILITY CONTRACTOR
FF	- FINISHED FLOOR ELEVATION	TA	- TRANSFER AIR
FLR	- FLOOR	TEMP	- TEMPERATURE
FOB	- FLAT ON BOTTOM	TOB	- TOP OF BEAM
FOF	- FUEL OIL FLOW	TOD	- TOP OF DUCT
FOG	- FUEL OIL GAUGE	TOE	- TOP OF EQUIPMENT
FOR	- FUEL OIL RETURN	TOF	- TOP OF FOOTING
FOS	- FUEL OIL SUPPLY	TOJ	- TOP OF JOIST
FOT	- FLAT ON TOP	TOP	- TOP OF PIPE
FPM	- FEET PER MINUTE	TOS	- TOP OF SLAB OR TOP OF STEEL
FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)	TYP	- TYPICAL
FT	- FEET	UH	- UNIT HEATER
FTG	- FOOTING	UNO	- UNLESS NOTED OTHERWISE
G	- GAS OR NATURAL GAS	V	- VENT
GA	- GAUGE	VAC	- VACUUM
GAL	- GALLON	VAV	- VARIABLE AIR VOLUME
GALV	- GALVANIZED	VEL	- VELOCITY
GC	- GENERAL TRADES CONTRACTOR	VFD	- VARIABLE FREQUENCY DRIVE (ADJUSTABLE FREQUENCY MOTOR CONTROLLER)
GPM	- GALLONS PER MINUTE	VIB	- VALVE IN BOX
HB	- HOSE BIBB	VOL	- VOLUME
HC	- HVAC CONTRACTOR (DIVISION 23)	VTR	- VENT THROUGH ROOF
HD	- HUB DRAIN	VR	- VENT RISER
HG	- REFRIGERANT HOT GAS	W/	- WITH
HP	- HORSEPOWER	W/O	- WITHOUT
HPC	- HIGH PRESSURE CONDENSATE RETURN	WB	- WET BULB
HPS	- HIGH PRESSURE STEAM SUPPLY	WCO	- WALL CLEANOUT
HR	- HOUR		
HT	- HEAT TRACE		
HTR	- HEATER		
HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING		
HW	- HOT WATER		
HWR	- HEATING HOT WATER RETURN		
HWS	- HEATING HOT WATER SUPPLY		

### GENERAL NOTES

- THESE NOTES APPLY EQUALLY TO THE FULL SET OF DOCUMENTS.
- THE CONTRACTORS SHALL REFER TO ALL SPECIFICATION SECTIONS AND THESE DRAWINGS FOR DETAILS OF BUILDING CONSTRUCTION TO ENSURE SPACE AND SATISFACTORY ARRANGEMENT FOR THEIR WORK. THE VARIOUS DRAWINGS COMPRISING THE SET ARE INTERDEPENDENT AND MUST BE USED JOINTLY AT ALL TIMES. EACH CONTRACTOR SHALL REFER TO THE GENERAL REQUIREMENTS OF THE CONTRACT. THE NOTES AND SYMBOLS INDICATED ON THE DRAWINGS ARE FOR THE GUIDANCE OF ALL TRADES INVOLVED IN THE PROJECT AND MUST BE FOLLOWED TO EXECUTE THE WORK AS INTENDED. IF DISCREPANCIES OCCUR, CONTACT THE ARCHITECT THRU THE GENERAL CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. SEE SPECIFICATIONS FOR MORE SPECIFIC DETAILS ON RESPONSIBILITIES.
- ALL WORK MUST BE COORDINATED WITH THE GENERAL CONTRACTOR AND ARCHITECT TO MAINTAIN OPERATION OF THE EXISTING FACILITY.
- EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHERS. HE SHALL KEEP HIMSELF INFORMED OF THE PROGRESS AND DETAIL DEVELOPMENT OF THE WORK OF OTHERS AND SHALL BE RESPONSIBLE FOR COORDINATING AND EXPEDITING HIS WORK WITH OTHERS SO THAT THE PROGRESS OF THE TOTAL WORK SHALL BE KEPT ON SCHEDULE.
- ALL WORK SHALL BE PERFORMED IN COMPLETE COMPLIANCE WITH ALL GOVERNING CODES AND STANDARDS.
- EXISTING CONDITIONS SHOWN HAVE BEEN BASED UPON VISUAL OBSERVATION AND/OR AVAILABLE DRAWING INFORMATION, AND MAY BE AT VARIANCE WITH ACTUAL WORK IN PLACE. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND FIELD VERIFY ALL CONDITIONS AFFECTING THE EXECUTION OF THE WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE WORK SHOWN ON THE CONTRACT DOCUMENTS WHICH MAY IMPACT THE PROGRESS OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- EACH CONTRACTOR AND/OR TRADE, FITTING OR PLACING HIS WORK INTO OR ON THE WORK OF OTHERS DOES SO WITH THE UNDERSTANDING THAT THE INSTALLATION OF HIS WORK CONSTITUTES HIS ACCEPTANCE OF THE SUITABILITY OF THE WORK IN PLACE. IF THE WORK OF OTHERS IS NOT ACCEPTABLE, HE SHALL NOTIFY THE PROJECT ENGINEER AND SUCH WORK SHALL BE CORRECTED. ANY NEW WORK INSTALLED IN UNSUITABLE EXISTING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE INSTALLING THE NEW WORK. NO CLAIMS FOR ADDITIONAL COMPENSATION FOR CORRECTING WORK INSTALLED IN UNSUITABLE EXISTING CONDITIONS WILL BE CONSIDERED.
- ANNULAR SPACE OF ALL CONDUIT, DUCT & OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THROUGH 0- HOUR RATED WALLS & FLOORS SHALL BE FIRESTOPPED TO RETARD PASSAGE OF FIRE & SMOKE.
- ALL PIPING, DUCTS, CONDUITS, ETC. IN FINISHED ROOMS, CORRIDORS, ETC. SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING. IN GENERAL, KEEP DUCT AND PIPING MAINS NEXT TO UNDERSIDE OF STRUCTURE.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
- DIFFUSER SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES. REGISTER AND GRILLE SIZES SHOWN ARE DUCT CONNECTION SIZES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
- ANY REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE OWNER. ITEMS NOT DESIRED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
- THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY VERTICAL OR HORIZONTAL OFFSET WHICH MAY BE NECESSARY TO COMPLETE THE SYSTEMS. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED.
- WHERE CONTROL DEVICES ARE REMOVED, CONTROL WIRING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE.
- ALL EXISTING DUCTWORK, EQUIPMENT, CONTROLS, ETC. SHOWN ON REMOVAL PLAN(S) SHALL BE REMOVED. THE MAJORITY OF WORK TO BE REMOVED IS SHOWN. REMOVE ALL INCIDENTAL AND/OR ABANDONED DUCTWORK, PIPING, ETC. THAT MAY NOT BE SHOWN BUT IS ASSOCIATED WITH THE REMOVAL WORK.
- WHERE DUCTS OR PIPES ARE REMOVED THRU WALL/FLOOR/ROOF THAT IS TO REMAIN, PATCH WALL/FLOOR/ROOF OPENING TO MATCH EXISTING WHERE OPENING IS NOT REUSED.
- ALL CUTTING AND PATCHING REQUIRED FOR THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT.
- REFINISH ANY SURFACE DISTURBED UNDER THIS WORK TO MATCH EXISTING.
- ALL ABANDONED EXTRANEOUS PIPING, DUCTWORK, SUPPORTS, CONTROLS, ETC. SHALL BE REMOVED.
- WHERE EXISTING HVAC UTILITIES IN SERVICE WILL BE DISRUPTED DURING THE CONSTRUCTION OF THIS PROJECT, THIS WORK SHALL BE PERFORMED ON WEEKDAYS. DOWNTIME SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED AND SCHEDULED IN WRITING ONE WEEK IN ADVANCE WITH THE PROJECT COORDINATOR.

### SHEET LIST

SHEET NUMBER	SHEET NAME
M001	HVAC LEGEND, GENERAL NOTES & INDEX
M002	MECHANICAL SCHEDULES & DETAILS
MD100	LOWER LEVEL FLOOR PLAN - DEMOLITION
M100	LOWER LEVEL FLOOR PLAN - NEW WORK



DESIGNED BY:	AJT
DRAWN BY:	JS
CHECKED BY:	JF

DATE:	REVISIONS:

**EMS Classrooms & Sim Lab Bldg. 14**  
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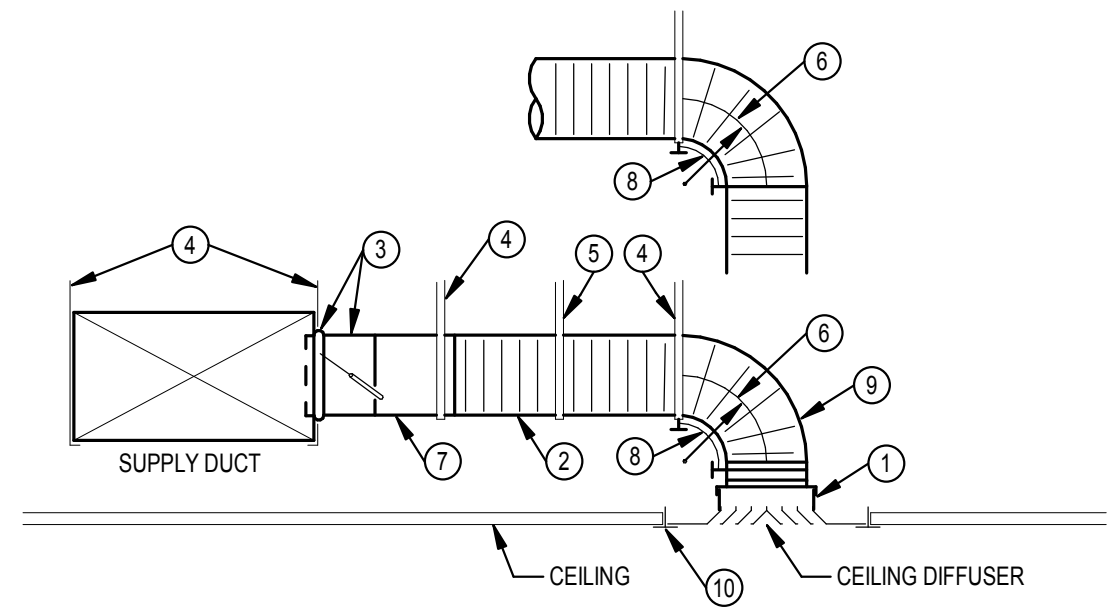
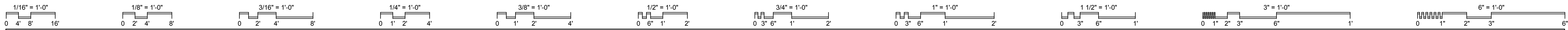
### HVAC LEGEND, GENERAL NOTES & INDEX

SCALE: 12" = 1'-0"

**M001**

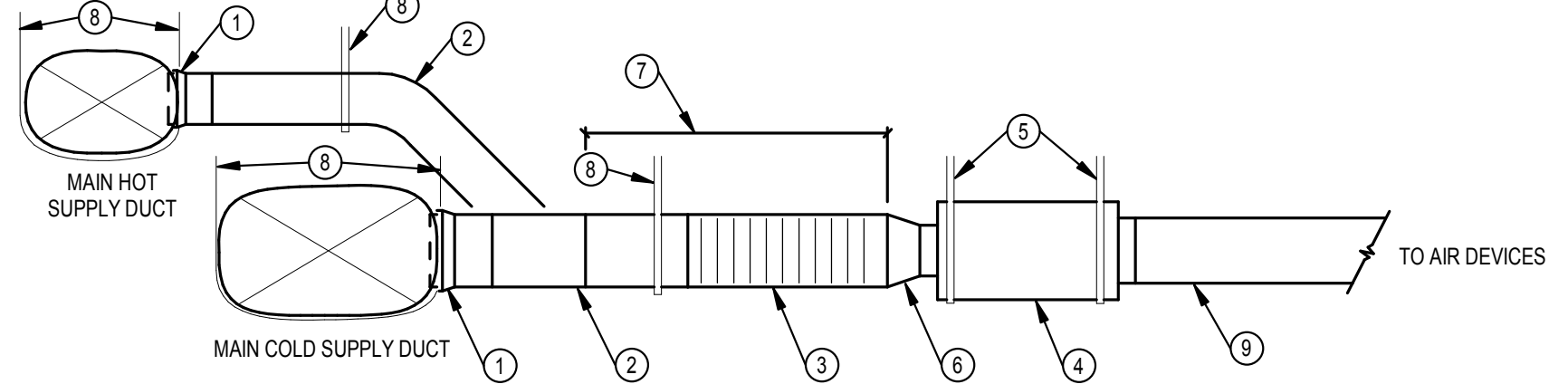
JOB NO.: 24011  
DATE: 01/20/2025





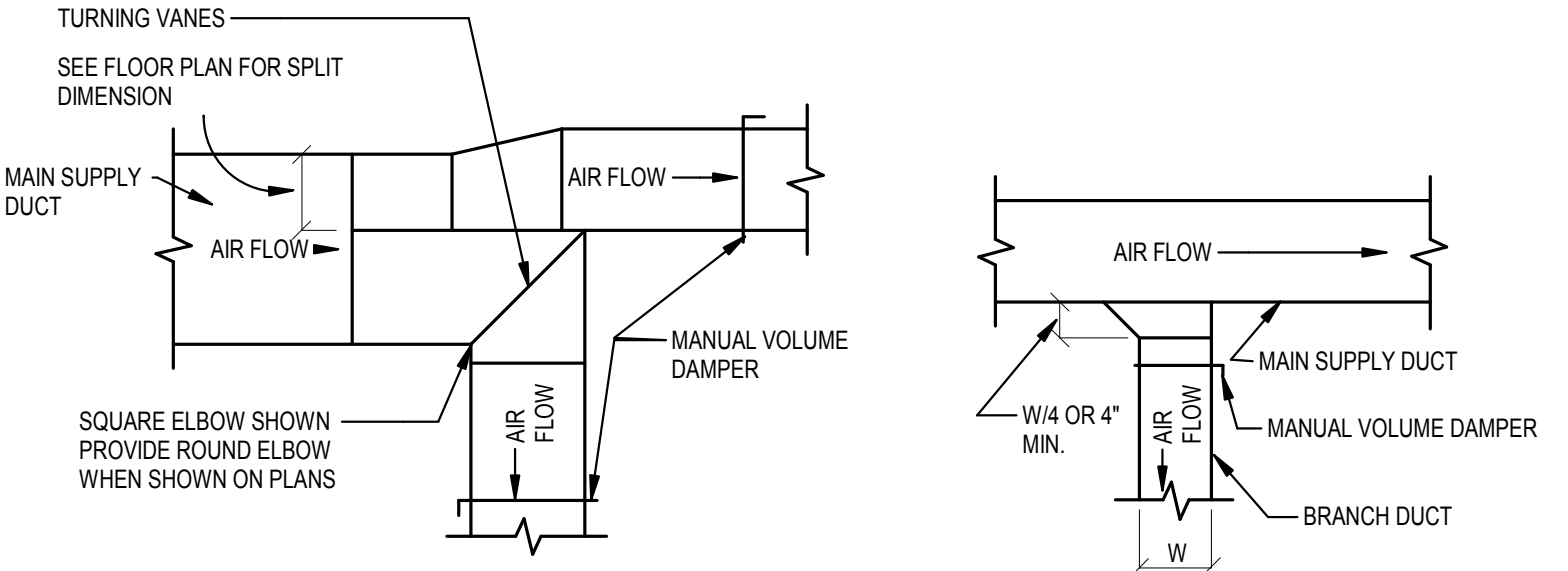
- NOTES**
- SQUARE-TO-ROUND ADAPTER IF DIFFUSER NECK IS SQUARE. CONNECT ADAPTOR TO DIFFUSER. SEAL TO AIR DEVICE, SEAL CLASS A. INSULATE ADAPTOR AND EXPOSED BACKSIDE SURFACES OF AIR DEVICE.
  - INSULATED FLEXIBLE DUCT SAME DIAMETER AS BRANCH DUCT (7). 5 FT. MAXIMUM TOTAL LENGTH PER AIR DEVICE. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
  - SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION, AND EXTENDED DAMPER SHAFT AND HANDLE WITH STAND-OFF TO ACCOMMODATE EXTERNAL INSULATION.
  - DUCT STRAP HANGER. ATTACH TO STRUCTURE.
  - STRAP HANGER REQUIRED IF LENGTH OF FLEXIBLE DUCT IS LONGER THAN 4 FT.
  - MINIMUM CENTERLINE RADIUS EQUAL TO DUCT DIAMETER.
  - ROUND SHEET METAL BRANCH DUCT, SAME SIZE AS DIFFUSER INLET UNLESS NOTED OTHERWISE.
  - FLEXIBLE DUCT ELBOW SUPPORT, INSTALLED WITH NYLON BANDING PER MANUFACTURER'S INSTRUCTIONS.
  - A RADIUS'D SHEET METAL ELBOW MAY BE USED IN LIEU OF A FLEXIBLE ELBOW SUPPORT WHEN CONNECTED DIRECTLY TO AIR DEVICE.
  - CEILING T-BAR SUPPORT (FOR LAY-IN APPLICATIONS). COORDINATE AND VERIFY T-BAR TYPE FOR COMPATIBILITY WITH DIFFUSER.

**1 CEILING DIFFUSER DUCT CONNECTION**



- NOTES**
- CONICAL TEE FITTING. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN SUPPLY DUCT WITH INTERNAL INSULATION.
  - ROUND SHEET METAL BRANCH DUCT. SAME SIZE AS AIR TERMINAL UNIT INLET SIZE UNLESS NOTED OTHERWISE.
  - INSULATED FLEXIBLE DUCT. MAXIMUM LENGTH OF 4 FT. MINIMUM LENGTH OF 4 IN. STRETCH FLEXIBLE DUCT TO 90% OF FULLY EXTENDED LENGTH. TYPICAL FOR HOT AND COLD DUCTS.
  - DUAL DUCT AIR TERMINAL UNIT.
  - MINIMUM FOUR HANGER RODS FOR UNIT (CORNER POINTS). ATTACH TO STRUCTURE.
  - TRANSITION WHEN REQUIRED. TYPICAL FOR HOT AND COLD DUCTS.
  - MINIMUM STRAIGHT LENGTH OF DUCT SHALL BE TERMINAL UNIT MANUFACTURER'S REQUIRED LENGTH, BUT AT LEAST 3 TIMES UNIT INLET DIAMETER. TYPICAL FOR HOT AND COLD DUCTS.
  - DUCT HANGER. ATTACH TO STRUCTURE.
  - DUCT SHALL BE FULL SIZE OF UNIT OUTLET UNLESS NOTED OTHERWISE ON FLOOR PLANS. TRANSITION IF LISTED DUCT SIZE ON PLANS IS DIFFERENT.

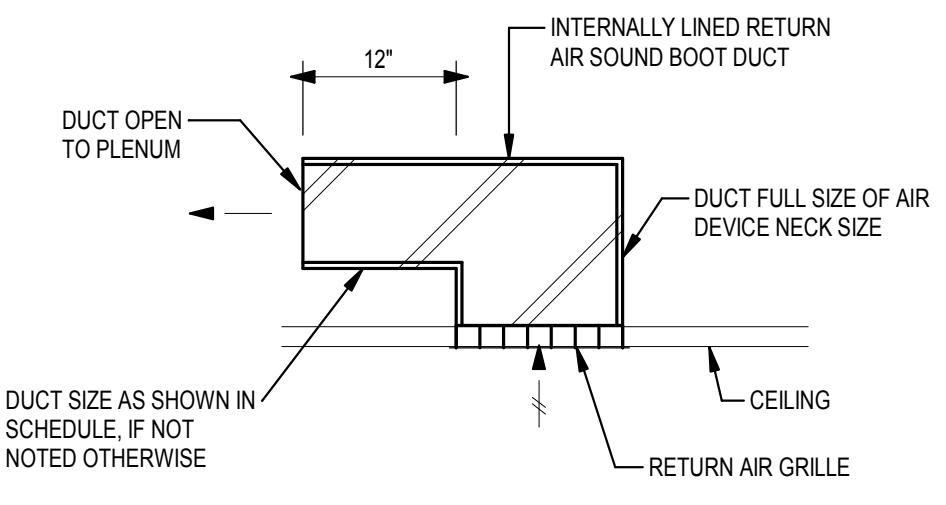
**2 DUAL DUCT AIR TERMINAL UNIT DUCT CONNECTION**



**AIR SPLIT DUCT TAKE-OFF PLAN VIEW** and **BRANCH DUCT TAKE-OFF PLAN VIEW**

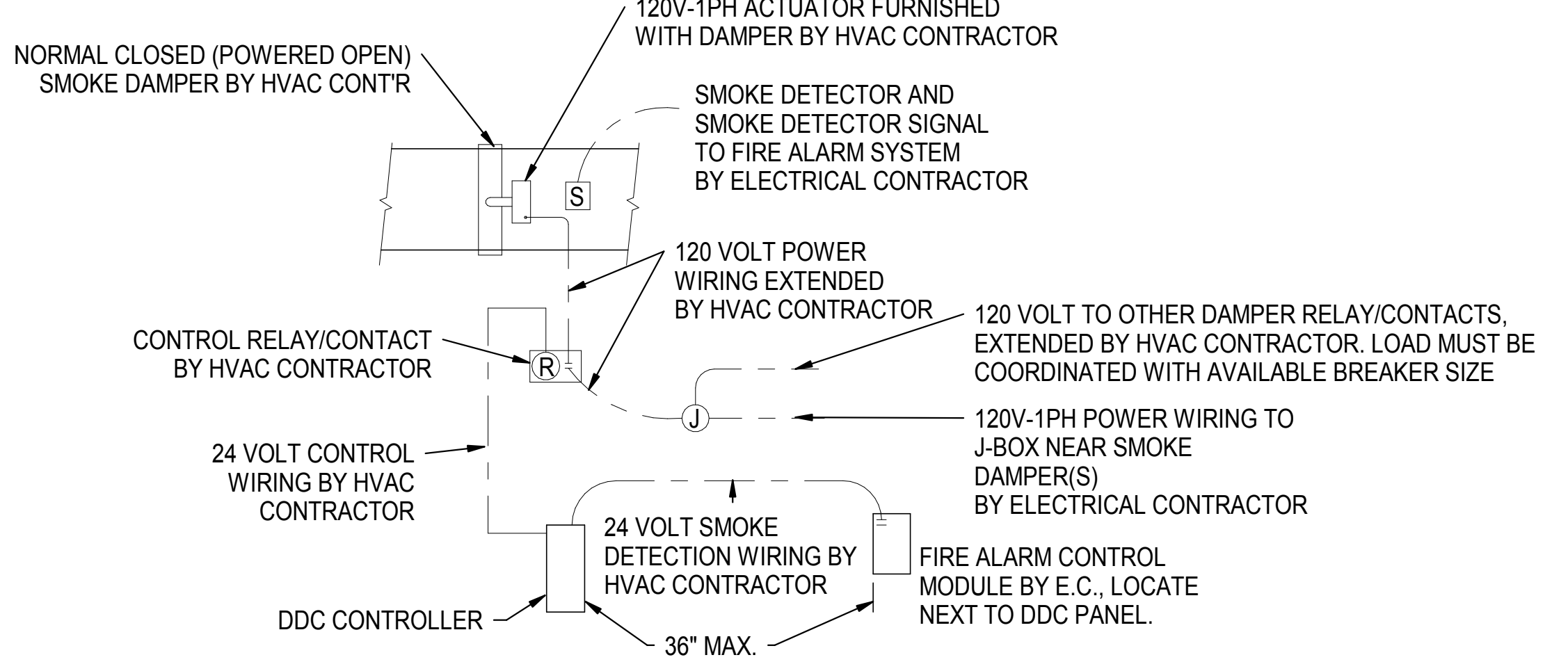
THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM, AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES

**3 SUPPLY DUCTWORK BRANCH TAKE-OFFS**



AIR DEVICE SIZE	DUCT SIZE
12x12	12x10
24x12	12x12
24x24	24x12

**4 RETURN AIR SOUND BOOT**



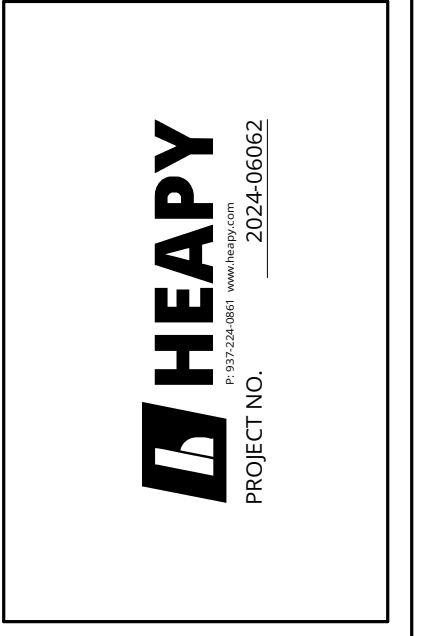
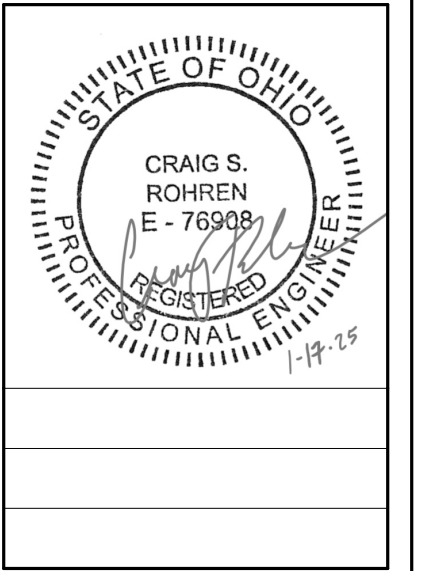
**5 SMOKE DAMPER WIRING**

HVAC DESIGN DATA					
GENERAL NOTES: A. OUTDOOR DESIGN CONDITIONS: 92°F DB SUMMER, 74°F WB SUMMER, 1°F DB WINTER. B. DESIGN ALTITUDE: 850 FT.					
NOTES: 1. LISTED RH IS MAXIMUM ANTICIPATED AT LISTED DB TEMPERATURE. 2. "FLOATING" MEANS THERE IS NO ACTIVE CONTROL.					
SPACE NAME / TYPE	INTERIOR DESIGN DATA - SUMMER		INTERIOR DESIGN DATA - WINTER		SEE NOTE
	*F DB	% RH (NOTE 1)	*F DB	% RH	
OFFICES	75	55	70	FLOATING	2
CLASSROOMS	75	55	70	FLOATING	-
ALL OTHER SPACES	74	55	69	FLOATING	2

AIR TERMINAL - DUAL DUCT								
GENERAL NOTES: A. TYPES - "V.V.", VARIABLE VOLUME; "V.V.T.", VARIABLE VOL./TEMP. B. 0.4" MAXIMUM STATIC PRESSURE DROP THRU UNIT AT MAXIMUM CFM. C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.								
NOTES: 1.								
MARK	TYPE	COOLING			HEATING			SEE NOTE
		MAXIMUM	MINIMUM	INLET	MAXIMUM	MINIMUM	INLET	
1-01	VV	835	170	10"	670	170	8"	
1-02	VV	1100	550	10"	880	550	10"	
1-03	VV	1140	570	12"	915	570	10"	
1-04	VV	1340	670	12"	1070	670	10"	
1-05	VV	240	120	6"	190	120	6"	

DUCT CONSTRUCTION, SEALING, AND INSULATION										
GENERAL NOTES: A. REFER TO SPECIFICATIONS FOR DUCT CONSTRUCTION: SHEET METAL DUCT; INTERIOR LINING; EXTERIOR INSULATION; FIBERGLASS DUCTBOARD; ETC. B. DUCT CONSTRUCTION AND SEALING SHALL BE PER LATEST S.M.A.C.N.A. STANDARDS.										
NOTES: 1. ROUND SHEET METAL RUN-OUTS TO AIR DEVICES DOWNSTREAM OF MIXING BOXES SHALL BE EXTERNALLY INSULATED. 2. REFER TO DETAIL ON THIS SHEET. 3. CONCEALED ROUND RUNOUT DUCTS TO AIR DEVICES MAY BE 1" S.P. CLASS.										
DUCT SYSTEM	S.P. CON-STRUCT.	SEAL CLASS	S.M.A.C.N.A. CLASS.		LEAKAGE CLASS	INTERNALLY LINED	EXTERNAL INSULATION	DOUBLE WALL INSULATED	NOT INSULATED	SEE NOTE
			RECT	RND						
SUPPLY DUCTWORK UPSTREAM OF MIXING BOXES	+3"	A	8	4	-	•	-	-	-	-
SUPPLY DUCTWORK DOWNSTREAM OF MIXING BOXES	+1"	A	16	8	-	•	-	-	-	1
RETURN DUCTWORK	-2"	A	16	8	-	-	-	-	•	3
TRANSFER/RETURN AIR SOUND BOOT	-1"	A	16	-	•	-	-	-	-	2
TOILET OR GENERAL EXHAUST DUCTWORK	-1"	A	16	8	-	-	-	-	-	-

AIR DISTRIBUTION DEVICES												
GENERAL NOTES: A. ALL LAY-IN AIR DEVICES SHALL FIT IN 24"x24" LAY-IN CLG SYSTEM. VERIFY GRID TYPE AND COORDINATE AIR DEVICE COMPATIBILITY. B. FINISH KEY: "W.B.E." - WHITE BAKED ENAMEL; "E.C.L." - ETCHED CLEAR LACQUER OR ANODIZED; "C.C.B.A." - CUSTOM COLOR SELECTED BY ARCHITECT. C. SUPPLY AIR DIFFUSERS SHALL BE 4-WAY BLOW, UNLESS INDICATED OTHERWISE ON DRAWINGS. D. PROVIDE AUX. FRAMES FOR AIR DEVICES IN PLASTER, GYPSUM BOARD, TILE OR OTHER HARD SURFACES.												
NOTES: 1.												
MARK	DESCRIPTION	MOUNTING TYPE				MATERIAL	FINISH	OPPOSED BLADE DAMPER	SQ-TO-RD NECK ADAPTOR	BASIS OF DESIGN		SEE NOTE
		LAY-IN	SURFACE DUCT	SPLINE	SNAP-IN					MANUFACTURER	MODEL	
A10	STANDARD SQ. PLAQUE CEILING DIFFUSER	•				ALUMINUM	W.B.E.			TITUS	OMNI	
J10	EGGCRATE CEILING GRILLE, RETURN	•				STAINLESS STEEL	E.C.L.			TITUS	50F	
K10	EGGCRATE CEILING GRILLE, EXHAUST	•				ALUMINUM	W.B.E.			TITUS	50F	



DESIGNED BY: AJT  
DRAWN BY: JS  
CHECKED BY: JF

DATE:	REVISIONS:

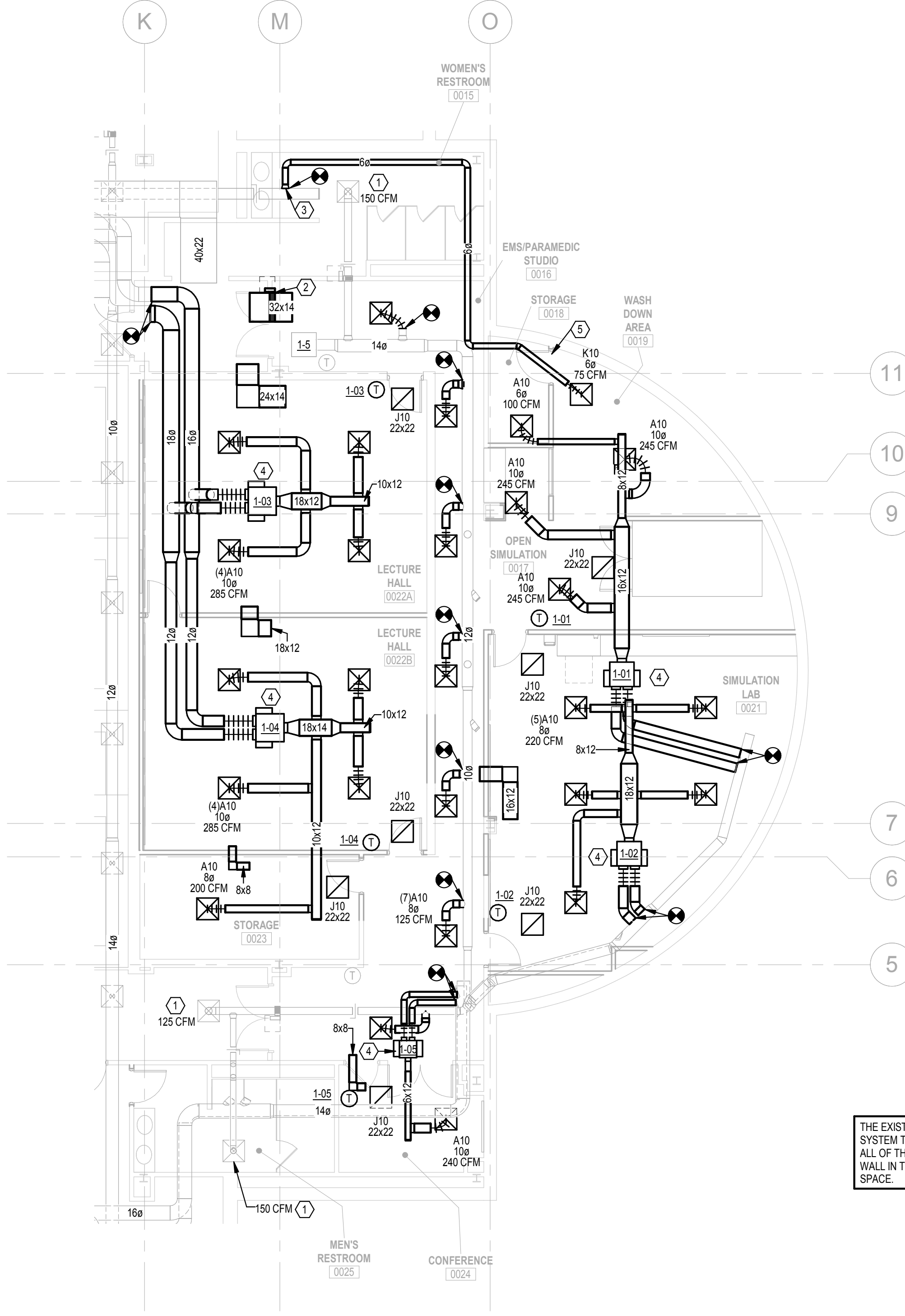
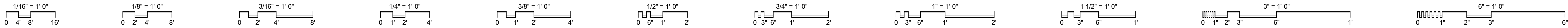
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444 West 38th Street  
Dayton, OH 45402

**MECHANICAL SCHEDULES & DETAILS**

SCALE: As indicated

**M002**

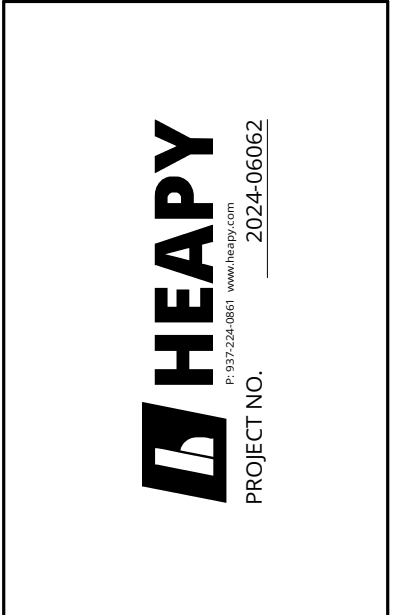
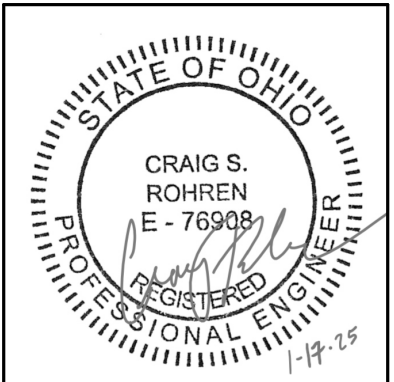
JOB NO.: 24011  
DATE: 01/20/2025



THE EXISTING ATRIUM SPACE HAS AN EXISTING SMOKE EVACUATION SYSTEM THAT IS NOT BE TOUCHED OR MODIFIED UNDER THIS PROJECT. ALL OF THE HVAC WORK IN THIS RENOVATION HAPPENS BEHIND THE WALL IN THE EMS SPACE AND MODIFIES A UNIT DEDICATED TO THE EMS SPACE.

**PLAN NOTES**

- REBALANCE EXISTING DIFFUSER TO CFM INDICATED.
- PROVIDE NEW SMOKE DAMPER. BALANCE TO 1300 CFM.
- REBALANCE EXISTING EF-9 LOCATED ON ROOF TO 1430 CFM.
- CONTRACTOR SHALL COORDINATE WITH ATC CONTRACTOR TO INTEGRATE NEW MIXING BOXES INTO EXISTING BAS SYSTEM.
- COORDINATE WITH G.C. TO UNDERCUT DOOR 1 INCH.



DESIGNED BY: AJT  
 DRAWN BY: JS  
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DATE:			

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**LOWER LEVEL  
 FLOOR PLAN - NEW  
 WORK**

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

**M100**

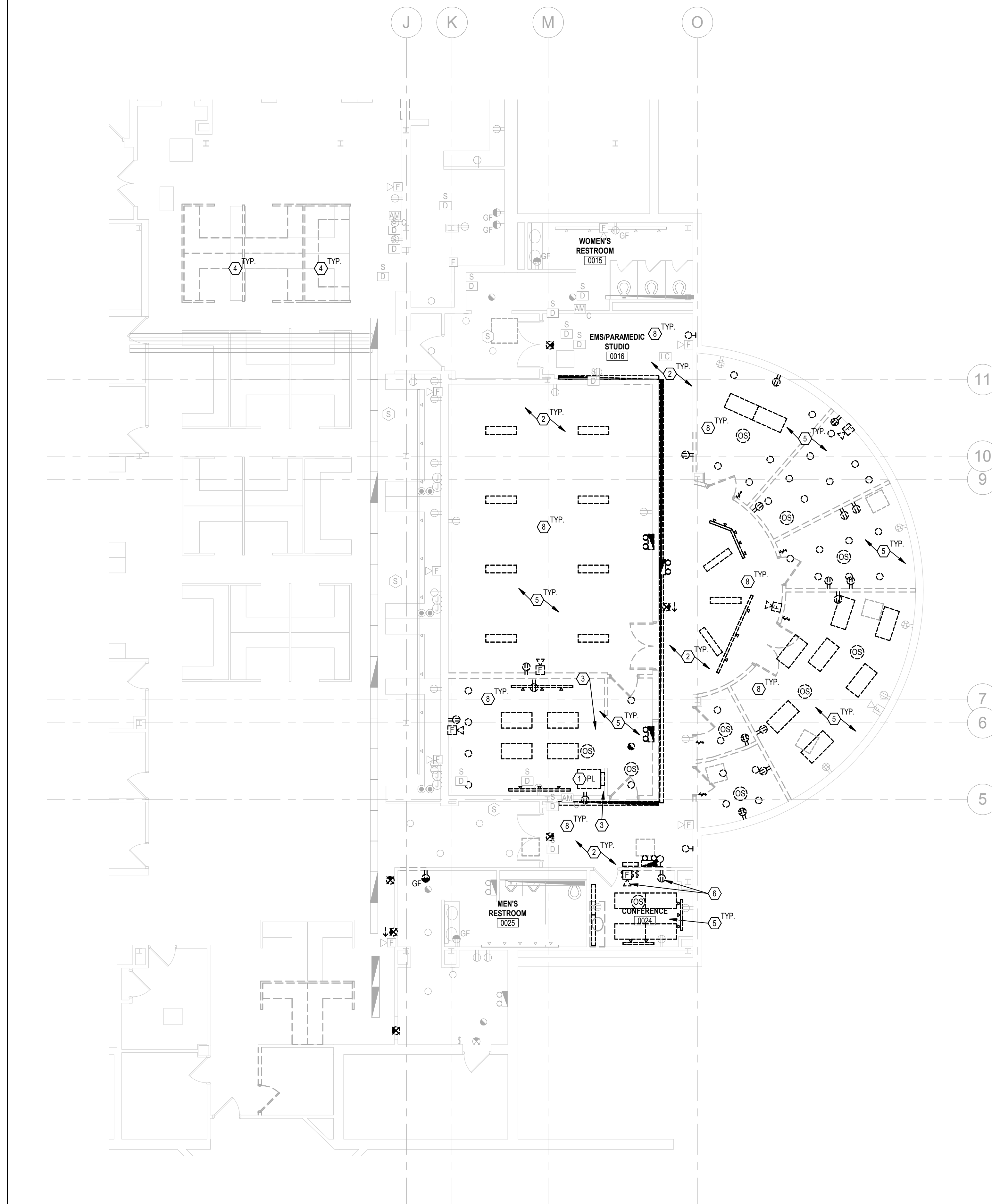
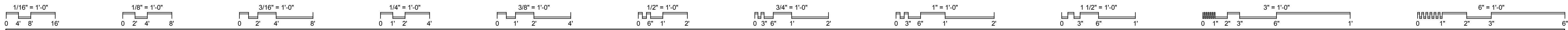
JOB NO.: 24011

DATE: 01/20/2025

**1 MECHANICAL LOWER LEVEL - NEW WORK**

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



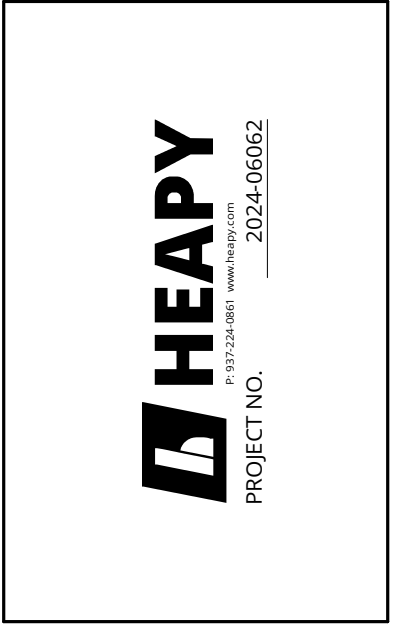
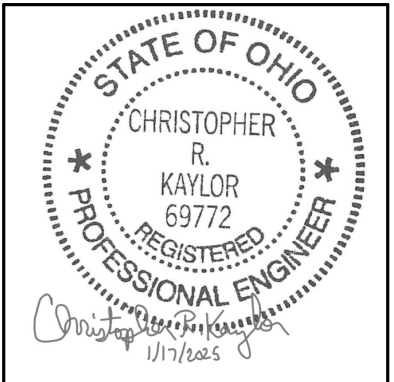


**PLAN NOTES**

1. E.C. SHALL REMOVE EXISTING PANEL PL AND REUSE EXISTING FEEDER FOR NEW PANEL PL IN NEW LOCATION AS ABLE. SAWCUT FLOOR AS NEEDED TO RELOCATE AND EXTEND EXISTING FEEDER TO NEW LOCATION. REFER TO NOTE 1 ON SHEET E200 FOR NEW LOCATION AND MORE INFORMATION.
2. MAINTAIN EXISTING LIGHTING CIRCUITS IN CORRIDOR AS INDICATED.
3. REMOVE AND RELOCATE EXISTING CONDUITS AND ANY ASSOCIATED WIRING. IF CONDUIT/WIRING IS ABANDONED AND IN CONFLICT WITH NEW WORK, E.C. SHALL REMOVE ACCORDINGLY.
4. DISCONNECT AND MAINTAIN EXISTING FURNITURE FLOOR POWER CONNECTIONS FOR ROTATED FURNITURE AND RECONNECT AS REQUIRED.
5. REMOVE EXISTING LIGHTING FIXTURES AND LIGHTING CONTROLS AS INDICATED IN SPACES TO BE DEMOLISHED AND MAINTAIN EXISTING LIGHTING CIRCUIT TO SERVE NEW LIGHT FIXTURES IN SPACE.
6. IF ALTERNATE 1 IS ACCEPTED, REMOVE EXISTING FIRE ALARM DEVICE AND DOUBLE DUPLEX RECEPTACLE AS INDICATED. IF ALTERNATE 1 IS NOT ACCEPTED, MAINTAIN EXISTING FIRE ALARM DEVICE AND EXISTING DOUBLE DUPLEX RECEPTACLE AS INDICATED.
7. IF ALTERNATE 2 IS ACCEPTED, REMOVE EXISTING EXIT SIGNS AND RECEPTACLE AS INDICATED. IF ALTERNATE 2 IS NOT ACCEPTED, MAINTAIN EXISTING EXIT SIGNS AND RECEPTACLE AS INDICATED.
8. E.C. SHALL MAINTAIN ALL LIGHTING CONTROL EQUIPMENT/DEVICES ABOVE AREA OF WORK THROUGHOUT ALL DEMO AND NEW WORK. EQUIPMENT AND DEVICES ARE LOCATED ABOVE CEILING.

**GENERAL NOTES**

- A. A PORTION OF THIS FLOOR IN THE BUILDING WILL BE REMODELED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS WHERE DEMO AND NEW WORK WILL OCCUR. E.C. SHALL REMOVE, ELECTRICAL DEVICES, SYSTEM COMPONENTS AND OTHER EQUIPMENT ASSOCIATED WITH DIVISION 26, 27, AND 28 TO ACCOMMODATE ALL NEW CONSTRUCTION AND REMODELING IN THESE AREAS. ONLY EXISTING RECESSED DEVICES, DEVICES SERVING EXISTING EQUIPMENT TO REMAIN, AND DEVICES INDICATED AS EXISTING SHALL BE MAINTAINED ACTIVE (UNLESS INDICATED OTHERWISE). REFER TO GENERAL NOTES "I" AND "J", ON SHEET E001.
- B. ALL EQUIPMENT, LIGHT FIXTURES, CONDUIT, CONDUCTORS, FIRE ALARM WIRING, AND ANY OTHER ELECTRICAL RELATED EQUIPMENT BEING MOUNTED IN THE CEILING OR ABOVE THE CEILING SHALL BE PLENUM RATED.
- C. WHERE NEW DEVICE(S) ARE TO BE PROVIDED ON EXISTING SOLID BLOCK WALL, PROVIDE WITH SURFACE RACEWAY PER GENERAL NOTE G, SHEET E001. WHERE NEW DEVICES ARE SHOWN ON NEW WALL OR EXISTING STUD WALLS DEVICES SHALL BE RECESSED. INTENT IS THAT WHERE EVER POSSIBLE DEVICES SHALL BE RECESSED.
- D. WHERE CONDUITS ARE EXPOSED THEY SHALL BE MOUNTED TIGHT TO THE CEILING STRUCTURE AND PAINTED TO MATCH WALL SURFACES.
- E. ALL EXISTING RECESSED DEVICES TO REMAIN IN AREAS WHERE THERE IS WORK SHALL BE PROVIDED WITH NEW DEVICES AND COVER PLATE. E.C. IS RESPONSIBLE TO VERIFY AND PROVIDE PROPER WIRING (PER NEC) TO EXISTING (TO REMAIN) DEVICES PER GENERAL NOTE N, SHEET E001. E.C. SHALL PROVIDE NEW BLANKS OVER RECESSED NON-USED BACK BOXES.
- F. ALL EXISTING TO REMAIN DEVICES LOCATED ON NEWLY FURRED OUT WALLS SHALL BE PROVIDED WITH EXTENSION BOXES AND BE MOUNTED FLUSH IN NEW WALL.
- G. E.C. IS RESPONSIBLE TO PROVIDE ANY AND ALL ELECTRICAL WORK AND ROUGH-INS ASSOCIATED AND CALLED OUT ON THE TECHNOLOGY DRAWINGS/DETAILS. REFER TO TECHNOLOGY DRAWINGS FOR EXACT SCOPE OF WORK AND PROVIDE ACCORDINGLY.
- H. E.C. IS RESPONSIBLE FOR REMOVAL OF ANY/ALL CEILINGS TO ACCOMMODATE WORK ASSOCIATED WITH ROUTING OF NEW CONDUIT AND WIRING TO NEW EQUIPMENT/FURNITURE LOCATIONS. E.C. SHALL PROVIDE ALL CORE DRILLS AS REQUIRED TO PROVIDE POWER TO NEW EQUIPMENT/FURNITURE.
- I. WHERE REMOVAL OF ELECTRICAL DEVICES/BOXES OCCURS, PATCH AS REQUIRED AND REFER TO GENERAL NOTE F ON SHEET E001 FOR MORE INFORMATION.
- J. E.C. SHALL MAINTAIN ALL LIGHTING CONTROL EQUIPMENT/DEVICES ABOVE AREA OF WORK THROUGHOUT ALL DEMO AND NEW WORK. EQUIPMENT AND DEVICES ARE LOCATED ABOVE CEILING.



DESIGNED BY: MPH  
 DRAWN BY: MPH  
 CHECKED BY: CRK

DATE:			

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**LOWER LEVEL FLOOR PLAN - DEMOLITION**

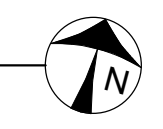
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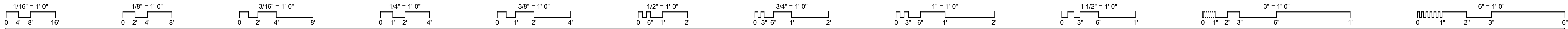
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JOB NO.: 24011

DATE: 01/20/2025

**1 ELECTRICAL LOWER LEVEL**  
 SCALE: 1/8" = 1'-0"





## ELECTRICAL GENERAL NOTES

- A** ALL CONDUCTORS SHALL BE COPPER IN CONDUIT.
- B** ALL WORK WILL BE DONE IN ACCORDANCE WITH THE NEC, OHIO BUILDING CODE, NFPA, AND OTHER RELEVANT BUILDING CODES FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- C** PROVIDE A SEPARATE NEUTRAL CONDUCTOR WITH EACH 20A, 120V. POWER CIRCUIT - GROUND TOTAL SYSTEM PER NEC 250.
- D** ALL 20 AMP, 120 VOLT POWER CIRCUITS SHALL CONSIST OF #12 AWG CONDUCTORS UNLESS INDICATED OTHERWISE.
- E** ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULLWIRE PER SPECIFICATIONS.
- F** ALL SURFACE PATCHING AND FINISHING WILL BE BY THE ELECTRICAL CONTRACTOR OR TO POINT CONSISTENT WITH G.C. RESPONSIBILITIES.
- G** ALL WIRING AND CONDUIT SHALL BE INSTALLED CONCEALED ABOVE ALL LAY-IN CEILING SYSTEMS. WHERE WIRING IS REQUIRED TO BE RUN EXPOSED ALONG WALLS AND CEILINGS, IT SHALL BE RUN IN METAL SURFACE RACEWAY (WIREMOLD G4000 SERIES UNLESS INDICATED OTHERWISE - COORDINATE EXACT SERIES NUMBER WITH OWNER AND PROVIDE ACCORDINGLY) MOUNTED TIGHT TO EXISTING SURFACE MATCHING CONTOUR OF BUILDING LINES AND PAINTED TO MATCH SURFACES ON WHICH THEY ARE MOUNTED. COORDINATE ALL LOCATIONS AND ROUTES WITH ENGINEER PRIOR TO ROUGH-IN.
- H** UTILIZE EXISTING CONDUIT/RACEWAY SYSTEMS; INCLUDING BRANCH CIRCUITRY TO SERVE NEW WORK WHERE FEASIBLE AND INSTALLATION MEETS NEC REQUIREMENTS.
- I** E. C. IS RESPONSIBLE FOR REMOVALS OF ALL LIGHTING, DEVICES, CONDUIT, BRANCH CIRCUITRY, PANELBOARDS, ETC., WHICH BECOME ANTIQUATED DUE TO NEW WORK. E. C. IS RESPONSIBLE FOR REMOVAL OF ALL BRANCH CIRCUITS AND FEEDERS SERVING SPECIFIC ITEMS OF MECH./MISC. EQUIPMENT TO BE REMOVED BY OTHERS; COORDINATE WITH OTHER TRADES. NOT ALL REMOVAL WORK OR DEVICES ARE NECESSARILY SHOWN ON DRAWINGS.
- 1 ALL EXISTING ELECTRICAL WORK WHICH DO NOT INTERFERE WITH REMODELING SCOPE OF WORK SHALL BE MAINTAINED ACTIVE.
  - 2 LABEL ALL CIRCUIT BREAKERS MADE SPARE DUE TO REMOVALS AS "SPARE" TO SERVE FUTURE CIRCUITS.
- J** ALL EXISTING LIGHTING, DEVICES, BRANCH CIRCUITRY AND CONDUIT WHICH ARE TO BE MAINTAINED AND DO NOT INTERFERE WITH REMODELING SCOPE OF WORK SHALL MEET NEC. THIS CONTRACTOR SHALL PROVIDE ALL NEW WORK AS REQUIRED TO INSURE THAT ALL EXISTING WORK IS IN ACCORDANCE WITH ALL APPLICABLE CODES. SCOPE INCLUDES, BUT NOT LIMITED TO; NEW DEVICES AND COVERPLATES, SUPPORTS AND OTHER LABOR AND MATERIALS TO OBTAIN COMPLETE AND OPERATIONAL SYSTEMS. THIS REQUIREMENT IS NOT INTENDED TO APPLY TO AREAS OUTSIDE OF REMODELING/CONSTRUCTION LIMITS. BIDDERS ARE ADVISED TO INSPECT PROJECT SITE DURING THE BIDDING PERIOD.
- K** EXISTING WIREMOLD SHALL BE PAINTED TO MATCH WALL/SURFACE.
- L** OPEN CABLING IS NOT ALLOWED.
- M** PROVIDE NEW CONDUITS TO ALLOW FOR PROPER BENDING RADIUS OF ALL SYSTEMS CABLING AND WIRING INSTALLED UNDER THIS CONTRACT AS RECOMMENDED BY MANUFACTURERS OF EACH CABLE TYPE.
- 1 WHERE EXISTING CONDUITS AND UNDERGROUND DUCTBANKS ARE UTILIZED, EXTREME CARE MUST BE TAKEN TO PROTECT CABLES DURING INSTALLATION.
  - 2 WHERE EXISTING ACCESSIBLE CONDUITS ARE UTILIZED, REPLACE EXISTING ELBOWS AND OTHER OFFSETS AS REQUIRED TO MEET BENDING RADIUS REQUIREMENTS.
- N** E. C. IS REQUIRED TO SUPPORT ALL EXISTING WIRING AND CABLING, CONDUITS AND OTHER RACEWAYS LOCATED ABOVE ALL ACCESSIBLE CEILINGS TO MEET NEC ARTICLE 300. SCOPE INCLUDES ALL SUPPORT AND ASSOCIATED FITTINGS INDEPENDENT OF CEILING GRID/SYSTEM AS REQUIRED.
- O** CONTRACTOR SHALL RESPECT THE OWNERS PROPERTY AND PROTECT FROM DUST AND DEBRIS THROUGH-OUT THE COMPLETE PROJECT. PROVIDE DROP CLOTHS, VISQUEEN, ETC... TO ELIMINATE ANY AND ALL MESSSES. WORK AREA(S) SHALL BE CLEANED UP PRIOR TO EACH WORK DAYS COMPLETION.
- P** FOR ALL DOORS WITH SECURITY MANAGEMENT INTERFACE AND ROUGH-INS; REFER TO DETAILS ON TECHNOLOGY SHEETS FOR SCOPE OF WORK AND PROVIDE ACCORDINGLY.
- Q** ALL OCCUPANCY SENSORS REQUIRING A POWER PACK AND POWER SHALL TAP THEIR POWER FEED AHEAD OF ANY/ALL SWITCHING. IN CORRIDORS AND PUBLIC SPACES CONTROLLED BY THE LIGHTING AUTOMATION SYSTEM THE POWER PANEL SHALL BE FED FROM THE NEAREST EMERGENCY EXIT LIGHT CIRCUIT (NON-SWITCHED).
- R** REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES, WHERE REFLECTED CEILING PLANS INDICATE A LARGER QUANTITY OF LIGHTING FIXTURES THAN THAT SHOWN ON THE ELECTRICAL DRAWINGS FOR A PARTICULAR SPACE, THE REFLECTED CEILING PLANS SHALL BE FOLLOWED FOR THAT SPACE.
- S** VERIFY EXACT LOCATION OF ALL LIGHTING FIXTURES WITH REFLECTED CEILING PLAN AND/OR ARCHITECT PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF LIGHTING FIXTURES WITH MECHANICAL DUCTS AND SPRINKLER PIPES AND HEADS BEFORE ROUGH-IN TO PREVENT CONFLICTS.
- T** ALL EXISTING LIGHTING, DEVICES, BRANCH CIRCUITRY AND CONDUIT WHICH ARE TO BE MAINTAINED AND DO NOT INTERFERE WITH REMODELING SCOPE OF WORK SHALL MEET NEC THIS CONTRACTOR SHALL PROVIDE ALL NEW WORK AS REQUIRED TO INSURE THAT ALL EXISTING WORK IS IN ACCORDANCE WITH ALL APPLICABLE CODES. SCOPE INCLUDES, BUT NOT LIMITED TO; NEW DEVICES AND COVERPLATES, SUPPORTS AND OTHER LABOR AND MATERIALS TO OBTAIN COMPLETE AND OPERATIONAL SYSTEMS. THIS REQUIREMENT IS NOT INTENDED TO APPLY TO AREAS OUTSIDE OF REMODELING/CONSTRUCTION LIMITS. BIDDERS ARE ADVISED TO INSPECT PROJECT SITE DURING THE BIDDING PERIOD.
- U** STAGGER RECEPTACLES AND OTHER RECESSED OUTLETS WHEN LOCATED ON OPPOSITE SIDES OF PARTITION TO ELIMINATE SOUND TRANSMISSION FROM ONE SPACE TO THE OTHER. CENTER DEVICES WHERE APPLICABLE IN EACH WALL SECTION.
- 1 WHERE DUPLEX AND ISOLATED GROUND DUPLEX RECEPTACLES ARE LOCATED NEXT TO EACH OTHER ON PLAN, THEY SHALL BE INSTALLED IN COMMON 2 GANG OUTLET BOX/COVERPLATE ASSEMBLY.
  - 2 EXISTING OUTLETS LOCATED IN WALLS TO BE FURRED OUT SHALL BE EXTENDED TO NEW WALL SURFACE.
  - 3 NEW OUTLETS INSTALLED IN FURRED OUT WALLS SHALL BE SHALLOW TYPE TO AVOID MASONRY WORK.
- V** EXACT LOCATION OF ALL DEVICES SERVING EQUIPMENT TO BE VERIFIED AT SITE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- W** VERIFY EXACT LOCATION OF TELEPHONE, DATA AND RECEPTACLE OUTLETS FOR EACH DESK IN OFFICE SPACES WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- X** COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL NEW ELECTRICAL DEVICES WITH THE ARCHITECT PRIOR TO ROUGH-IN. DEVICES SHALL INCLUDE ALL NEW WORK INDICATED ON THE DRAWINGS; INCLUDING BUT NOT LIMITED TO POWER RECEPTACLES, TV OUTLET, LIGHTING CONTROLS AND SWITCHES, MOTOR CONTROLLERS, FA COMPONENTS, INTERCOM/PAGING COMPONENTS AND SECURITY/CCTV EQUIPMENT.
- Y** ALL RECEPTACLE AND DATA OUTLETS TO BE MOUNTED AT 18" M.H. UNLESS OTHERWISE NOTED. DATA OUTLETS LOCATED ADJACENT TO DUPLEX AND DOUBLE DUPLEX RECEPTACLES SHALL BE MOUNTED AT THE SAME M.H. WITH THE RESPECTIVE RECEPTACLE.
- Z** E. C. IS RESPONSIBLE TO COORDINATE ALL DEVICE LOCATIONS WITH CASEWORK DRAWINGS AND ARCHITECT PRIOR TO ROUGH-IN TO AVOID CONFLICTS. ANY DEVICE LOCATION NOT PROPERLY COORDINATED WITH CASEWORK, FURNITURE, WHITEBOARDS, ETC SHALL BE THE COST RESPONSIBILITY OF THE E. C. TO RELOCATE PROPERLY.
- AA** BRANCH CIRCUIT WIRE SIZING CHART TO BE UTILIZED AS GUIDELINE FOR VOLTAGE DROP COMPENSATION, INCREASE CONDUIT SIZING PER WIRE SIZE.
- |                               |                                |
|-------------------------------|--------------------------------|
| A) 20A-120V CIRCUITS          | B) 20A-277V CIRCUITS           |
| 1) #12 WIRE - 60' LENGTH MAX. | 1) #12 WIRE - 135' LENGTH MAX. |
| 2) #10 WIRE - 94' LENGTH MAX. | 2) #10 WIRE - 219' LENGTH MAX. |
| 3) #8 WIRE - 137' LENGTH MAX. | 3) #8 WIRE - 318' LENGTH MAX.  |
| 4) #6 WIRE - 218' LENGTH MAX. | 4) #6 WIRE - 504' LENGTH MAX.  |
- BB** E. C. IS RESPONSIBLE TO PROVIDE ANY AND ALL ELECTRICAL WORK AND ROUGH-INS ASSOCIATED AND CALLED OUT ON THE TECHNOLOGY DRAWINGS/DETAILS. REFER TO TECHNOLOGY DRAWINGS FOR EXACT SCOPE OF WORK AND PROVIDE ACCORDINGLY.
- CC** E. C. IS RESPONSIBLE TO WARRANTY WORK FOR A ONE YEAR PERIOD STARTING ON THE DATE OF SUBSTANTIAL COMPLETION. E. C. SHALL SCHEDULE A ONE YEAR WARRANTY WALK-THROUGH WITH THE OWNER AND ENGINEER 9 MONTHS FROM THE SUBSTANTIAL COMPLETION DATE (3 MONTHS PRIOR TO END OF THE ONE YEAR WARRANTY PERIOD). E. C. IS RESPONSIBLE AT THAT TIME TO REPLACE/REPAIR ANY NON-WORKING EQUIPMENT OR DEVICES COVERED UNDER THE WARRANTY AS DESCRIBED IN THE CONTRACT SPECIFICATIONS.
- DD** WORK DEEMED NOISY OR DISRUPTIVE. (AS DETERMINED BY THE DISCRETION OF THE OWNER) SHALL BE PERFORMED OUTSIDE OF NORMAL WORKING HOURS. EC SHALL COORDINATE SCHEDULE FOR THIS TYPE OF WORK (AND TIMING) WITH THE OWNER.
- EE** DRAWINGS INDICATE EQUIPMENT AND DEVICES BUT MINIMAL WIRING; E. C. IS RESPONSIBLE TO PROVIDE WIRING, BRANCH CIRCUITRY CABLING ETC... TO EVERY ELECTRICAL DEVICE INDICATED ON THESE PLANS.
- FF** ALL EXISTING LIGHTING FIXTURES, DEVICES, AND EQUIPMENT THAT ARE TO BE DEMOED SHALL BE TURNED OVER TO THE OWNER.

## ELECTRICAL GENERAL NOTES

- GG** CONDUIT IDENTIFICATION
- 1 COLOR-CODE OR LABEL ALL JUNCTION BOXES AND ACCESSIBLE CONDUIT AT TWENTY (20) FEET INTERVALS. CODING SHALL BE PAINTED OR LABELED OF THE PRE-MANUFACTURED TYPE PERMANENTLY MOUNTED WITH A METAL OR PLASTIC BAND.
  - 2 IDENTIFICATION SHALL BE:
    - A EMERGENCY-ORANGE
    - B NORMAL - BLACK
    - C FIRE ALARM - RED
  - 3 IDENTIFY PANELS WITH COLORED STRIP OF PHENOLIC MATERIAL 6"X1", LOCATED UNDER PANEL NAMEPLATE. COLORED TO BE
    - A NORMAL - BLACK
    - B EMERGENCY - ORANGE
  - 4 IDENTIFY FEEDERS AND BRANCH CIRCUITS AT ALL JUNCTION BOXES BY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS. LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS. THIS APPLIES TO ALL EXISTING AND NEW CONDUITS, BOXES, ETC. IN AREA OF RENOVATION.

## FIRE ALARM SYMBOLS

	FIRE ALARM CONTROL PANEL.
	REMOTE ANNUNCIATOR PANEL.
	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL.
	FIRE ALARM SPEAKER & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
	FIRE ALARM HORN & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
	FIRE ALARM SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
	CEILING MOUNTED FIRE ALARM SPEAKER & SIGNAL LIGHT. # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
	CEILING MOUNTED FIRE ALARM SIGNAL LIGHT. # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
	CEILING MOUNTED FIRE ALARM SPEAKER.
	FIRE ALARM MANUAL STATION (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "K" INDICATES KEY OPERATED.
	CEILING MOUNTED SMOKE DETECTOR.
	CEILING MOUNTED HEAT DETECTOR.
	DUCT MOUNTED SMOKE DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
	BEAM DETECTOR. SUBSCRIPT "T" INDICATES TRANSMITTER FUNCTION. SUBSCRIPT "R" INDICATES RECEIVER FUNCTION.
	ELECTRO-MAGNETIC DOOR HOLDER.
	WATER FLOW SWITCH.
	VALVE SUPERVISORY SWITCH.
	SMOKE DAMPER.
	PRESSURE SWITCH.
	ADDRESSABLE MODULE. SUBSCRIPT "I" INDICATES INPUT. SUBSCRIPT "C" INDICATES CONTROL.

## ELECTRICAL SYMBOLS

	DASH SYMBOL INDICATES PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
	EXISTING OUTLET OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE). WHEN $\cup$ SHOWN, RECEPTACLE TO HAVE "CONTROLLED" MARKINGS.
	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.
	20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R WITH 2 INTEGRAL USB CHARGERS (18" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE).
	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE), WITH TAYMAC #MM420G EXTRA DUTY GRAY COVER, VERTICAL MOUNT.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, ON EMERGENCY POWER (18" MH UNLESS NOTED OTHERWISE).
	FLOOR BOX. # INDICATES TYPE. REFER TO FLOOR BOX (FB) SCHEDULE. IF NO #, PROVIDE HUBBELL BA-2527 FLUSH FLOOR BOX WITH ROUND SA-3925 COVERPLATE AND ONE 20A-125V DUPLEX RECEPTACLE. PROVIDE CARPET FLANGE WHERE REQD.
	FIRE RATED POKE-THRU. # INDICATES TYPE. REFER TO POKE-THRU (PT) SCHEDULE. IF NO #, PROVIDE HUBBELL 6 INCH RECESSED ACCESS POKE-THRU WITH TWO 20A-125V DUPLEX RECEPTACLES. PROVIDE CARPET FLANGE WHERE REQD.
	20-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH ISOLATED GROUND (18" MH UNLESS NOTED OTHERWISE).
	JUNCTION BOX.
	MULTI-OUTLET RECEPTACLES ASSEMBLY, NEMA 5-15R (SINGLE OUTLETS ON 18" CENTERS) (46" MH UNLESS NOTED OTHERWISE).
	WIREMOLD RACEWAY, AS NOTED ON PLANS.
	SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE).
	MULTI-WAY WALL SWITCH, # INDICATES NUMBER OF WAYS (46" MH UNLESS NOTED OTHERWISE).
	KEY OPERATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	LOW-VOLTAGE MOMENTARY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	LIGHTING DIMMER SWITCH (46" MH UNLESS NOTED OTHERWISE) 1000 WATTS UNLESS OTHERWISE INDICATED.
	HP RATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	ELECTRICAL PANEL OR SWITCHBOARD PER DRAWINGS.
	PULL BOX.
	DISCONNECT SWITCH.
	MOTOR STARTER.
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
	CORD REEL.
	POWER POLE.
	PUSHBUTTON (46" MH UNLESS NOTED OTHERWISE) EDWARDS 852 (120 VOLT).
	PHOTOELECTRIC SENSOR.
	LIGHTING CONTACTOR.
	CEILING MOUNTED OCCUPANCY SENSOR.
	CEILING MOUNTED VACANCY SENSOR.
	CEILING MOUNTED DAYLIGHT SENSOR.

## ABBREVIATIONS

ACC	- ACCESS	HC	- HVAC CONTRACTOR (DIVISION 23)
ADJ	- ADJUSTABLE	HP	- HORSE POWER OR HIGH POINT
AF	- ARC FAULT CIRCUIT INTERRUPTER	HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING
AFCI	- ARC FAULT CIRCUIT INTERRUPTER	ID	- INSIDE DIAMETER
AFF	- ABOVE FINISHED FLOOR TO BOTTOM OF ITEM	IN	- INCHES
ALF	- ABOVE FINISHED GRADE TO BOTTOM OF ITEM	L	- LENGTH
ALT	- ALTERNATE	LBS	- POUNDS
AP	- ACCESS PANEL	MAX	- MAXIMUM
APPROX	- APPROXIMATE	MEZZ	- MEZZANINE
ARCH	- ARCHITECT OR ARCHITECTURAL	MFR	- MANUFACTURER
ASSY	- ASSEMBLY	MH	- MOUNTING HEIGHT TO CENTER LINE OF ITEM
ATS	- AUTOMATIC TRANSFER SWITCH	MN	- MINIMUM OR MINUTE
BLDG	- BUILDING	MISC	- MISCELLANEOUS
BOE	- BOTTOM OF EQUIPMENT	MTD	- MOUNTED
BOT	- BOTTOM	MTG	- MOUNTING
BTWN	- BETWEEN	NIC	- NOT IN CONTRACT
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	NOM	- NOMINAL
CKT	- CIRCUIT	NTS	- NOT TO SCALE
CLG	- CEILING	OD	- OUTSIDE DIAMETER
CMU	- CONCRETE MASONRY UNIT	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
CONN	- CONNECT OR CONNECTION	OFOI	- OWNER FURNISHED OWNER INSTALLED
CONTR	- CONTRACTOR	PC	- PLUMBING CONTRACTOR (DIVISION 22)
CORR	- CORRIDOR	PLBG	- PLUMBING
CTR	- CENTER	RAD	- RADIUS
D	- DEPTH	REC	- RECESSED
DET	- DETAIL	REQD	- REQUIRED
DIA	- DIAMETER	RI	- ROUGH-IN
DIM	- DIMENSION	S	- SURFACE MOUNTED
DIV	- DIVISION	SC	- SECURITY CONTRACTOR
DN	- DOWN	SCH	- SCHEDULE
DWG	- DRAWING	SHT	- SHEET
EA	- EACH	SPEC	- SPECIFICATIONS
EJ	- ELECTRICAL CONTRACTOR (DIVISION 26)	SQ	- SQUARE
ELEC	- ELECTRICAL	SS	- STAINLESS STEEL
ELEV	- ELEVATION OR ELEVATOR	STD	- STANDARD
EM	- EMERGENCY	STRUC	- STRUCTURAL OR STRUCTURE
EQ	- EQUAL	SUC	- SITE UTILITY CONTRACTOR
EQS	- EQUIPMENT SUPPLIER	TC	- TECHNOLOGY CONTRACTOR
EQUIP	- EQUIPMENT	TEMP	- TEMPERATURE
EX	- EXISTING TO BE RELOCATED	TOE	- TOP OF EQUIPMENT
EX	- EXISTING TO REMAIN	TYP	- TYPICAL
EXP	- EXPANSION	UNO	- UNLESS NOTED OTHERWISE
EXT	- EXTERIOR	VFD	- VARIABLE FREQUENCY DRIVE
FCE	- FIRE CONTROL EQUIPMENT	VOL	- VOLUME
FF	- FINISHED FLOOR ELEVATION	W/O	- WITH
FLR	- FLOOR	W/	- WITHOUT
FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)	WP	- WEATHERPROOF
FT	- FEET		
FTG	- FOOTING		
GC	- GENERAL CONTRACTOR		
GF	- GROUND FAULT CIRCUIT INTERRUPTER		
GF/CI	- GROUND FAULT CIRCUIT INTERRUPTER OR		
GF/FT	- GROUND FAULT FEED THRU		

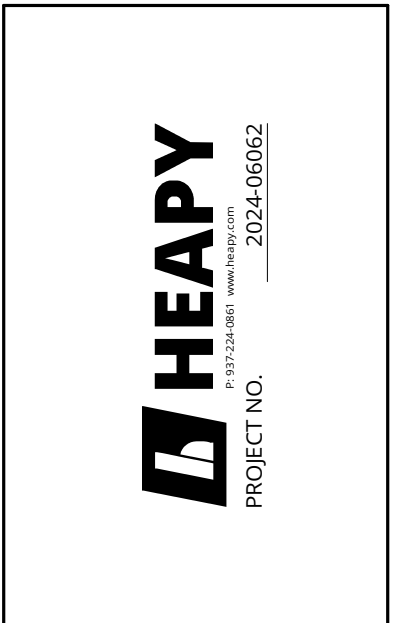
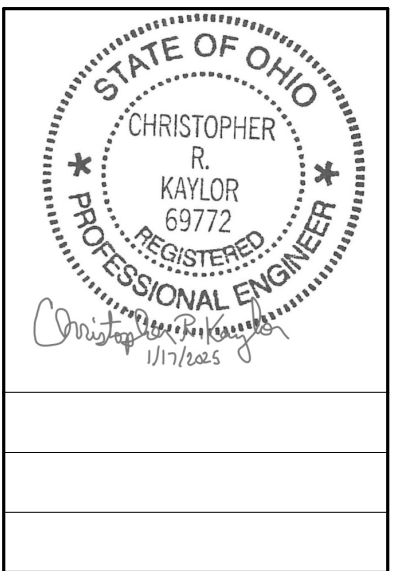
## GENERAL FLOOR PLAN NOTES

	DETAIL: B = DETAIL DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
	SECTION: 1 = SECTION DESIGNATION E2 = SHEET WHERE SECTION IS LOCATED
	ELEVATION: 1 = ELEVATION DESIGNATION T2 = SHEET WHERE ELEVATION IS LOCATED
	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	LIGHTING CONTROL DETAIL NOTE. APPLIES TO THE LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE FOR ROOM CONTROL.
	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
	WIRE & CONDUIT IN OR BELOW SLAB OR GRADE.
	CONDUIT TO BE REMOVED.
	EXISTING WIRE & CONDUIT TO REMAIN.
	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

**NOTE:**  
**ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.**  
**ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.**

## LUMINAIRE SYMBOLS

	LIGHTING FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LIGHTING FIXTURE ON EMERGENCY CIRCUIT.
	EXIT LIGHTING FIXTURE, ARROWS AS INDICATED.



DESIGNED BY: MPH

DRAWN BY: MPH

CHECKED BY: CRK

DATE:					
REVISIONS:					

**EMS Classrooms & Sim Lab Bldg. 14**  
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 444 West 380 Street  
 Dayton, OH 45402

**ELECTRICAL LEGEND, GENERAL NOTES & INDEX**

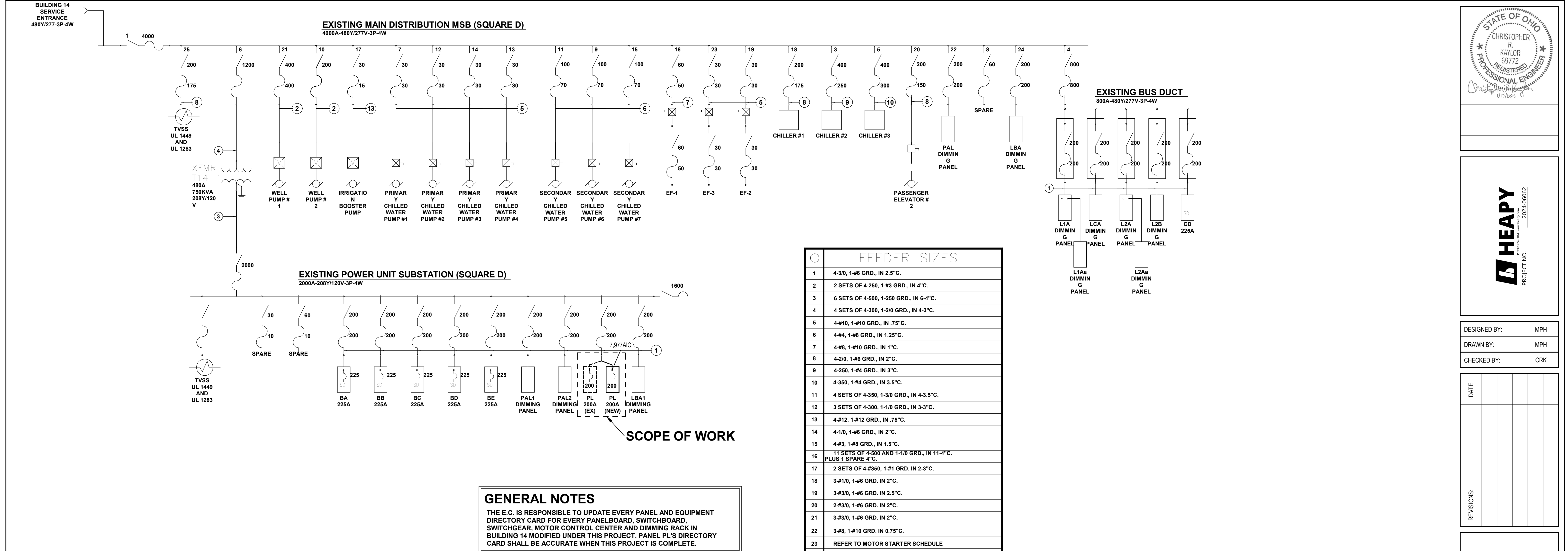
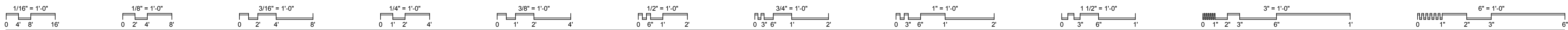
SCALE: 1/2" = 1'-0"

**E001**

JOB NO.: 24011

DATE: 01/20/2025





Ø	FEEDER SIZES
1	4-3/0, 1-#6 GRD., IN 2.5°C.
2	2 SETS OF 4-250, 1-#3 GRD., IN 4°C.
3	6 SETS OF 4-500, 1-250 GRD., IN 6-4°C.
4	4 SETS OF 4-300, 1-2/0 GRD., IN 4-3°C.
5	4-#10, 1-#10 GRD., IN .75°C.
6	4-#4, 1-#8 GRD., IN 1.25°C.
7	4-#8, 1-#10 GRD., IN 1°C.
8	4-2/0, 1-#6 GRD., IN 2°C.
9	4-250, 1-#4 GRD., IN 3°C.
10	4-350, 1-#4 GRD., IN 3.5°C.
11	4 SETS OF 4-350, 1-3/0 GRD., IN 4-3.5°C.
12	3 SETS OF 4-300, 1-1/0 GRD., IN 3-3°C.
13	4-#12, 1-#12 GRD., IN .75°C.
14	4-1/0, 1-#6 GRD., IN 2°C.
15	4-#3, 1-#8 GRD., IN 1.5°C.
16	11 SETS OF 4-500 AND 1-1/0 GRD., IN 11-4°C. PLUS 1 SPARE 4°C.
17	2 SETS OF 4-#350, 1-#1 GRD. IN 2-3°C.
18	3-#1/0, 1-#6 GRD. IN 2°C.
19	3-#3/0, 1-#6 GRD. IN 2.5°C.
20	2-#3/0, 1-#6 GRD. IN 2°C.
21	3-#3/0, 1-#6 GRD. IN 2°C.
22	3-#8, 1-#10 GRD. IN 0.75°C.
23	REFER TO MOTOR STARTER SCHEDULE
24	4-#4/0, 1-#4 GRD., IN 2.5°C.

**GENERAL NOTES**

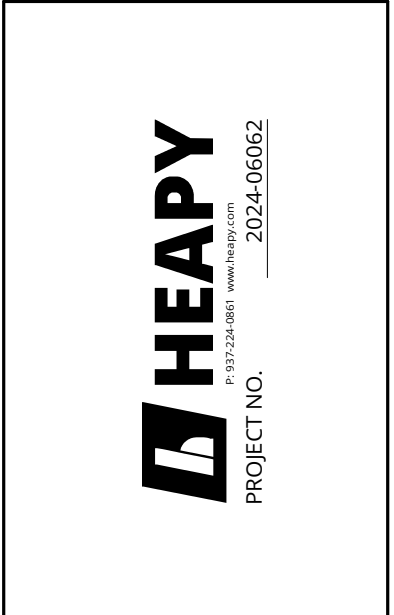
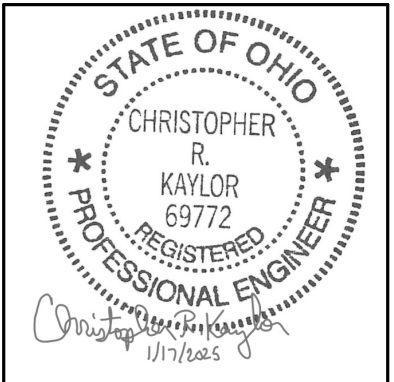
THE E.C. IS RESPONSIBLE TO UPDATE EVERY PANEL AND EQUIPMENT DIRECTORY CARD FOR EVERY PANELBOARD, SWITCHBOARD, SWITCHGEAR, MOTOR CONTROL CENTER AND DIMMING RACK IN BUILDING 14 MODIFIED UNDER THIS PROJECT. PANEL PL'S DIRECTORY CARD SHALL BE ACCURATE WHEN THIS PROJECT IS COMPLETE.

**1 PARTIAL ELECTRICAL SINGLE-LINE (FOR REFERENCE ONLY)**  
SCALE: NONE

Panel: PL (REPLACED/NEW) ①													
Location: STORAGE 0023			Mounting: Surface			A.I.C. Rating: 10,000							
Supply From: EXISTING POWER UNIT SUBSTATION			Enclosure: Type 1			Mains Type: MCB							
Voltage: 208Y/120V-3PH-4W						Mains Rating: 200 A							
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LECTURE DESK PWR	20 A	1	1500...	1500...					1	20 A	LECTURE DESK PWR	2
3	LECTURE DESK PWR	20 A	1			1500...	1500...			1	20 A	LECTURE DESK PWR	4
5	LECTURE DESK PWR	20 A	1					1500...	1500...	1	20 A	LECTURE DESK PWR	6
7	LECTURE DESK PWR	20 A	1	1500...	1500...					1	20 A	LECTURE DESK PWR	8
9	LECTURE DESK PWR	20 A	1			1500...	1500...			1	20 A	LECTURE DESK PWR	10
11	R-Room 0037, 0030...	20 A	1					540 VA	860 VA	1	20 A	R-Room 0030, 0029	12
13	R-Room 0032, 0037...	20 A	1	1080...	360 VA					1	20 A	SIM CORD REEL	14
15	SIM CORD REEL	20 A	1			360 VA	720 VA			1	20 A	R-SIM	16
17	AMBULANCE	20 A	1					180 VA	360 VA	1	20 A	R-OPERATING STN	18
19	R-LECTURE HALL...	20 A	1	860 VA	180 VA					1	20 A	AMBULANCE	20
21	DRAIN PUMP	20 A	1			360 VA	180 VA			1	20 A	SMOKE DAMPER	22
23	R-TV 0021	20 A	1					500 VA	4500...	1	20 A	R-LECTURE HALL...	24
25	R-LECTURE HALL...	20 A	1	4500...	600 VA					1	20 A	MENS RR DOOR	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
<b>Total Load:</b>				13.58 kVA		7.62 kVA		9.94 kVA					
<b>Load Classification</b>		<b>Connected...</b>	<b>Demand Factor</b>	<b>Estimated...</b>		<b>Panel Totals</b>							
Motor		600 VA	125.00%	750 VA		<b>Total Conn. Load:</b> 31.14 kVA							
Receptacle		30540 VA	66.37%	20270 VA		<b>Total Est. Demand:</b> 21.02 kVA							
						<b>Total Conn.:</b> 86 A							
						<b>Total Est. Demand:</b> 58 A							
<b>Notes:</b>													
<b>TOTAL CONNECTED</b>				<b>ESTIMATED DEMAND</b>									
31.14 kVA (2)				21.02 kVA (58 A) (2)									

**PANEL SCHEDULE NOTES**

- UTILIZE EXISTING FEEDER TO SERVE NEW PANEL IN NEW LOCATION AS INDICATED. REFER TO NOTE 1 ON SHEETS ED100 AND E100 FOR MORE INFORMATION.
- THE NEW LOAD ALONG WITH THE EXISTING LOAD DO NOT EXCEED THE EXISTING PANELBOARD'S CONNECTED LOAD/DEMAND LOAD RATINGS AND CHARACTERISTICS.



DESIGNED BY: MPH  
DRAWN BY: MPH  
CHECKED BY: CRK

DATE:				

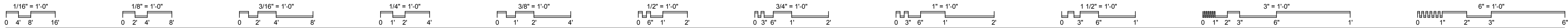
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444 West 380 Street  
Dayton, OH 45402

**PANEL SCHEDULES & SINGLE LINE**

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

**E002**

JOB NO.: 24011  
DATE: 01/20/2025



### LUMINAIRES

GENERAL NOTE: E.C. SHALL PROVIDE 5% OF EACH LED DRIVER/MODULE SPECIFIED AS SPARE IN ALL LED DRIVERS SHALL BE EITHER OSRAM OR ADVANCED TYPE. NO EQUALS. ORIGINAL SEALED PACKAGING AND TRANSPORT TO BUILDING (PUT IN STORAGE) AS DIRECTED BY OWNER.

GENERAL NOTE: E.C. SHALL COORDINATE CEILING TYPES PRIOR TO ORDERING AND PROVIDE MOUNTING/TRIM KITS ACCORDINGLY.

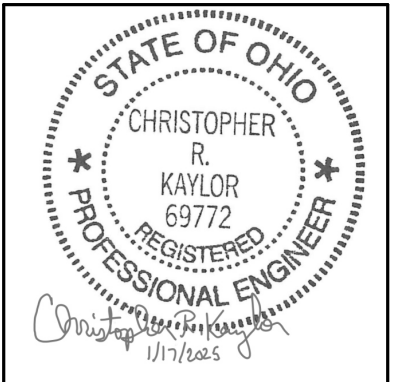
GENERAL NOTE: E.C. SHALL COORDINATE CEILING TYPES PRIOR TO ORDERING AND PROVIDE MOUNTING/TRIM KITS ACCORDINGLY.

GENERAL NOTE: PROVIDE FIXTURE WITH DIMMABLE UNIVERSAL VOLTAGE DRIVER.

MARK	L.E.D.	VA / LINEAR FOOT	FIXTURE SPECS		LOAD (VA)	FIXTURE VOLTAGE	MANUFACTURER	CATALOG NO.	DESCRIPTION	OTHER ACCEPTABLE MANUFACTURERS	DIFFUSING MEDIA	TRIM COLOR				MOUNTING	SIZE				SEE NOTE
			TYPE	DELIVERED LUMENS								COLOR	WHITE	BLACK	ALUMINUM		BRONZE	STANDARD	SEE NOTE	DIAMETER	
A1	X	4	345/FT	3500K	32	277	MARK ARCHITECTURAL	SL6L-LOP-8FT-FLP-TG-80CRI-35K-400LMF-MIN1-277-ZT	4" LED RECESSED LINEAR	LUMENWERX, LITECONTROL, LEDALITE	ACRYLIC LENS					R	6"	13"	2.375"	4.375"	1,2
B1	X		3440	3500K	31	277	LITHONIA	2ALL2-CTRF-33L-EZ1-LP835	2X2 LED TROFFER	COLUMBIA, DAYBRITE	ACRYLIC LENS				R	24"	24"	3.75"	1,2		
B2	X		4945	3500K	41	277	LITHONIA	2WRTL-G-L24-5000LM-OAW-AFL-MD-MVOLT-GZ1-35K-80CRI-WH	2X2 WET-LOCATION LED TROFFER	COLUMBIA, UTOPIA	WET-LISTED ACRYLIC LENS				R	24"	24"	4"	1,2		
X1	X		-	RED		277	LITHONIA	EDGR-X-1-RMR	LED EXIT SIGN	DUALITE, CHLORIDE	RED LETTERS ON MIRRORRED FACE				WMCS					1,3,4	

### LUMINAIRE SCHEDULE NOTES

- COORDINATE MOUNTING HARDWARE WITH CEILING TYPE. LOCATION ON PLANS AND ARCHITECTURAL DRAWINGS PRIOR TO ORDERING AND PROVIDE ACCORDINGLY. PROVIDE CEILING ADAPTERS FOR MOUNTING ON SLOPED AND FLAT CEILING SURFACES TO OBTAIN A NEAT AND FINISHED APPEARANCE. SCOPE INCLUDES ALL OUTLET BOXES, SUPPORT MEMBERS, CHAIN/CABLE SUPPORTS, FITTINGS AND ALL OTHER LABOR AND MATERIALS TO OBTAIN A COMPLETE INSTALLATION.
- TRIM TO MATCH OR BE PAINTED TO MATCH CEILING COLOR WHERE FIXTURE IS MOUNTED. E.C. SHALL PROVIDE ACCORDINGLY.
- PROVIDE ARROWS AS INDICATED ON PLANS. COORDINATE EXACT MOUNTING ARRANGEMENT WITH CEILING AND WALL CONSTRUCTION PRIOR TO ROUGH-IN. INTENT IS TO HAVE WALL MOUNTED EXIT LIGHT FIXTURES UNLESS CONDITIONS DO NOT FACILITATE.
- WIRE EXIT LIGHTS TO BRANCH CIRCUITRY AS INDICATED ON PLANS. WIRE AHEAD OF ALL SWITCHING AND CONTROLS FOR CONTINUOUS OPERATION.



DESIGNED BY: MPH  
 DRAWN BY: MPH  
 CHECKED BY: CRK

DATE:				
REVISIONS:				

### LIGHTING CONTROL SEQUENCE OF OPERATIONS

NOTES:  
 1) PROVIDE NEW CORRIDOR CONTROLS TO MATCH EXISTING CORRIDOR CONTROLS IN SPACE AND PROVIDE COVERAGE FOR NEW LAYOUT.

CONTROL NUMBER	TYPICAL CONTROL TYPE OR SPACE NAME	OCCUPANCY SENSOR		TIME CLOCK		WALL SWITCH			DAYLIGHT SENSOR		DETAIL NUMBER					
		VACANCY MODE (MANUAL ON)	OCCUPANCY MODE (AUTO ON)	SENSOR TIME OUT PERIOD (IN MINUTES)	HIGH / LOW OPERATION: OCCUPIED: 100% / VACANT: 30%	SCHEDULED ON AT	SCHEDULED OFF AT	AFTER HOURS OVERRIDE SWITCH (2 HOURS)	ON / OFF ONLY	DIMMER SWITCH		SCENE SWITCH	GRAPHICAL WALL STATION	INDOOR - DIMMING	LIGHT LEVEL MAINTAINED AT (IN FOOTCANDLES @ 2.5' A.F.F.)	EXTERIOR PHOTOCELL - ON / OFF
CO	CORRIDOR			20 MIN		EXISTING	EXISTING									5/E004
MVD	MULTI ZONE - VACANCY SENSING WITH DIMMING			20 MIN												3/E004
SV	SINGLE ZONE - VACANCY SENSING			20 MIN												1/E004
SVD	SINGLE ZONE - VACANCY SENSING WITH DIMMING			20 MIN												2/E004

### SCHEDULE OF REQUIRED UL FIRESTOP SYSTEMS

NOTE TO INSTALLERS: ONLY THE FOLLOWING UL CLASSIFIED FIRESTOP SYSTEMS SHALL BE ACCEPTED IN THIS FACILITY

SCHEDULE OF APPROVED FIRESTOP SYSTEMS	SLEEVED	INSULATED	PRODUCT(S)	CONCRETE FLOOR	CONCRETE WALL	GWB WALL
<b>ELECTRICAL PENETRATIONS</b>						
SINGLE CONDUIT	NO	NO	LCI SEALANT	CAJ-1080	CAJ-1080	W L-1049
MULTIPLE METALLIC	NO	NO	LCI SEALANT	-	-	W L-1093
MULTIPLE METALLIC	NO	NO	LCI SEALANT	-	-	W L-1168
MULTIPLE MIXED CONDUITS AND TUBING	NO	YES	PILLOWS	CAJ-8093	CAJ-8093	-
MULTIPLE METALLIC	NO	NO	LCI SEALANT	CAJ-8093	CAJ-8053	W L-8003
FLUSH-MOUNTED ELECTRICAL AND VDV OUTLET BOXES	-	NO	PULLY PADS	-	-	CLIV
<b>COM/ DATA PENETRATIONS</b>						
SINGLE CABLE BUNDLE	NO	YES	SINGLE EZ-PATH	CAJ-3214	C-AJ-3214 OR W L-3099	W L-3219
MULTIPLE CABLE BUNDLES	NO	YES	GANGED EZ-PATHS	FA-3015	W J-3098	W L-3218
CENTER HUNG CABLE TRAY	NO	YES	PILLOWS	-	W J-4021	W L-4029
OPEN LADDER CABLE TRAY	NO	YES	PILLOWS	CAJ-4029	CAJ-4029	W L-4008
SINGLE INNERDUCT	OPTIONAL	NO	LCI SEALANT	CAJ-2140	CAJ-2140	W L-2093
MULTIPLE INNERDUCT	YES	YES	PILLOWS	-	W J-2054	W L-2178
<b>GROUPED PENETRATIONS IN EXISTING BARRIERS</b>						
MULTIPLE MIXED	-	YES	PILLOWS	CAJ-8093	CAJ-8093	-
MULTIPLE MIXED	-	NO	LCI SEALANT	CAJ-8113	CAJ-8113	-
MULTIPLE MIXED	-	NO	SSM MORTAR	CAJ-8114	CAJ-8114	-
MULTIPLE MIXED	-	NO	SSM MORTAR	CAJ-8115	CAJ-8115	-
<b>HVAC PENETRATIONS</b>						
NON-DAMPED RECTANGULAR DUCT	NO	-	LCI SEALANT	-	W J-7012	W L-7029
NON-DAMPED FLAT OVAL DUCT	NO	-	LCI SEALANT	-	W J-7013	W L-7033
NON-DAMPED SPIRAL DUCT	NO	-	LCI SEALANT	-	W J-7005	W L-7026
NON-DAMPED INSULATED DUCT	NO	-	SSS/SSW	-	W J-7011	W L-7028

NOTE: CONTRACTOR IS RESPONSIBLE TO PROVIDE A DRAWING INDICATING WHERE ALL PENETRATIONS ARE BEING MADE IN FIRE RATED ASSEMBLIES/WALLS. CONTRACTOR SHALL REFERENCE WHICH SCHEDULE ITEMS APPLY AND WHICH UL NUMBERS ARE BEING PROVIDED.

### FIRESTOP SCHEDULE

EMS Classrooms & Sim Lab Bldg. 14  
 Sinclair College  
 444 West 380 Street  
 Dayton, OH 45402

**SCHEDULES**

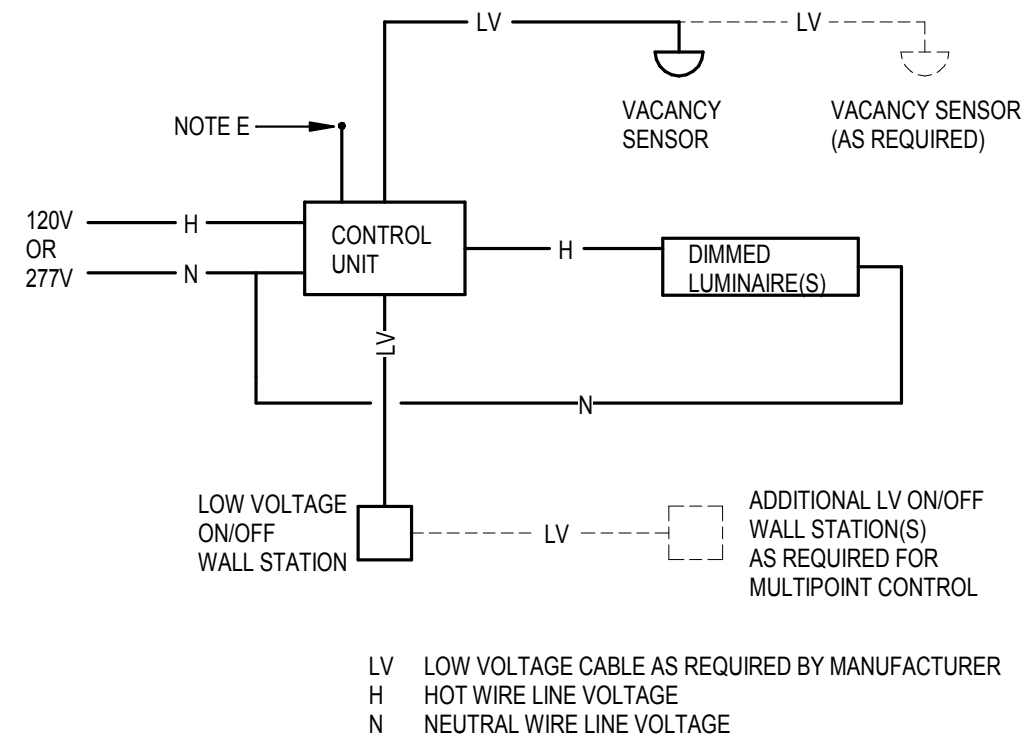
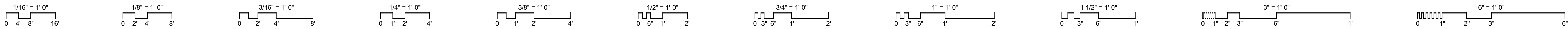
SCALE: 12" = 1'-0"

**E003**

JOB NO.: 24011

DATE: 01/20/2025



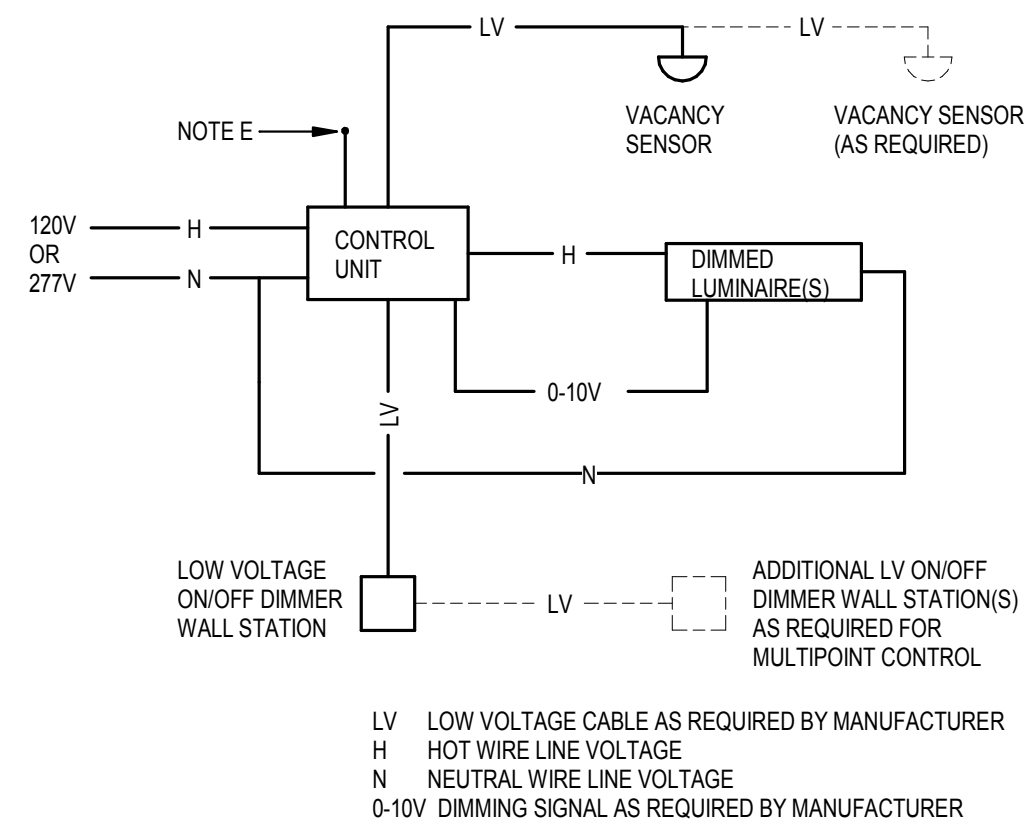


GENERAL NOTES

- A OPERATION INTENT IS FOR LOW VOLTAGE SINGLE ZONE MANUAL ON/OFF AND AUTO-OFF OPERATION OF ALL LIGHTS (VACANCY SIGNAL). CONTROL UNIT SHALL PROVIDE AN ON/OFF FOR ALL ZONES. WALL STATION(S) TO PROVIDE ON/OFF LEVEL SWITCHES.
- B CONTROL UNIT SHALL BE MOUNTED IN AN ENCLOSURE PER MANUFACTURER'S DIRECTION. MOUNT CONTROL UNIT ABOVE ACCESSIBLE CEILING AT ROOM ENTRY.
- C CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR EXACT QUANTITY OF OCCUPANCY SENSORS (FOR COMPLETE ROOM COVERAGE) AND PROVIDE ANY ADDITIONAL COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE COMPONENT MOUNTING LOCATIONS FOR PROPER CLEARANCE AND ACCESSIBILITY PRIOR TO ROUGH-IN. COORDINATE PROGRAMMING OF ZONES AND WALL STATION CONFIGURATIONS, AS SHOWN ON DRAWINGS, WITH MANUFACTURER.
- D DETAIL IS SCHEMATIC IN NATURE. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR EXACT WIRING INFORMATION.
- E PROVIDE ISOLATED FORM C CONTACT OUTPUT INDICATING SPACE OCCUPIED FOR BAS CONTROL, WHERE NOTED.

**1 VACANCY SENSING SINGLE-ZONE**

SCALE: NONE

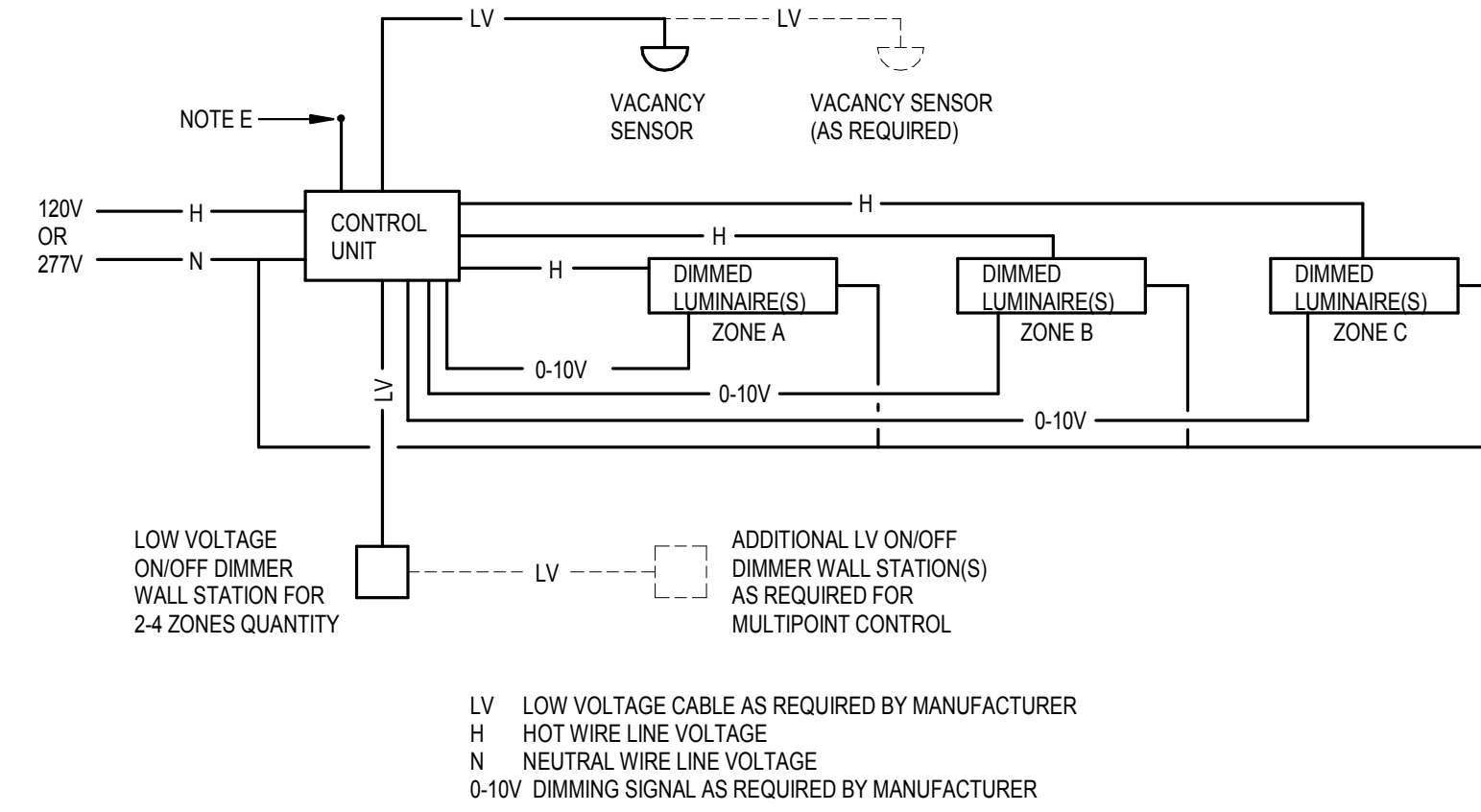


GENERAL NOTES

- A OPERATION INTENT IS FOR LOW VOLTAGE DIMMING WITH SINGLE ZONE MANUAL ON/OFF AND AUTO-OFF OPERATION OF ALL LIGHTS (VACANCY SIGNAL). CONTROL UNIT SHALL PROVIDE AN ON/OFF FOR ALL ZONES. WALL STATION(S) TO PROVIDE ON/OFF AND DIMMER LEVEL SWITCHES.
- B CONTROL UNIT SHALL BE MOUNTED IN AN ENCLOSURE PER MANUFACTURER'S DIRECTION. MOUNT CONTROL UNIT ABOVE ACCESSIBLE CEILING AT ROOM ENTRY.
- C CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR EXACT QUANTITY OF OCCUPANCY SENSORS (FOR COMPLETE ROOM COVERAGE) AND PROVIDE ANY ADDITIONAL COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE COMPONENT MOUNTING LOCATIONS FOR PROPER CLEARANCE AND ACCESSIBILITY PRIOR TO ROUGH-IN. COORDINATE PROGRAMMING OF ZONES AND WALL STATION CONFIGURATIONS, AS SHOWN ON DRAWINGS, WITH MANUFACTURER.
- D DETAIL IS SCHEMATIC IN NATURE. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR EXACT WIRING INFORMATION.
- E PROVIDE ISOLATED FORM C CONTACT OUTPUT INDICATING SPACE OCCUPIED FOR BAS CONTROL, WHERE NOTED.

**2 VACANCY SENSING SINGLE-ZONE CONTROLLED DIMMING**

SCALE: NONE

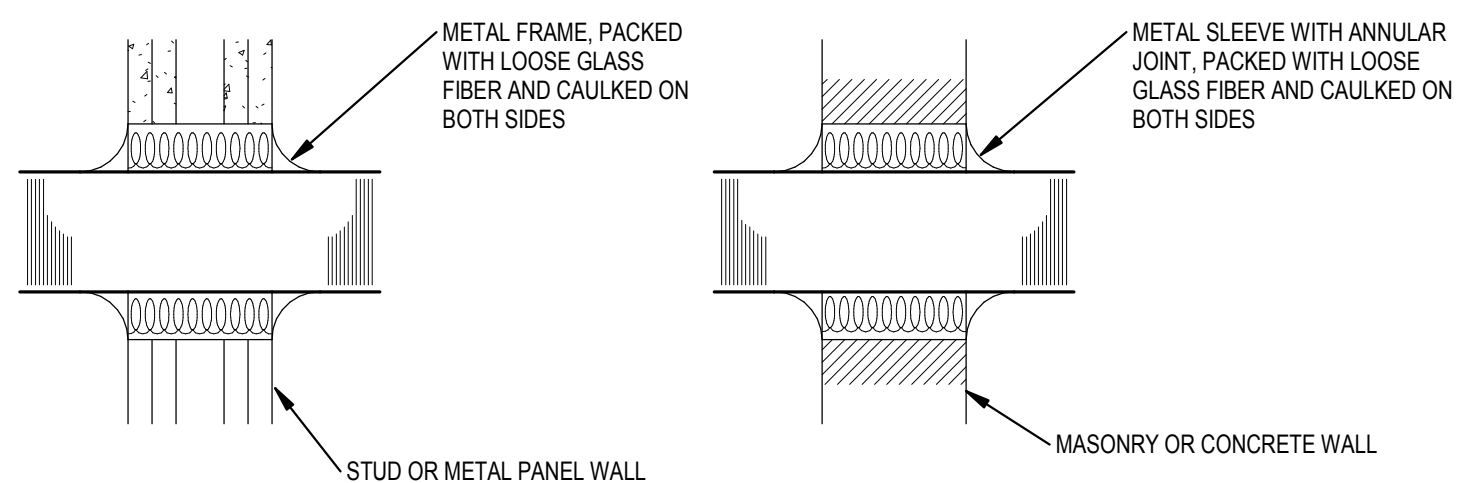


GENERAL NOTES

- A OPERATION INTENT IS FOR LOW VOLTAGE DIMMING WITH MANUAL ON/OFF AND MULTIPLE ZONE AND AUTO-OFF OPERATION OF ALL LIGHTS (VACANCY SIGNAL). CONTROL UNIT SHALL PROVIDE AN ON/OFF FOR ALL ZONES. WALL STATION(S) TO PROVIDE ON/OFF AND DIMMER LEVEL SWITCHES. REFER TO PLANS FOR QUANTITY OF LIGHTING ZONES.
- B CONTROL UNIT SHALL BE MOUNTED IN AN ENCLOSURE PER MANUFACTURER'S DIRECTION. MOUNT CONTROL UNIT ABOVE ACCESSIBLE CEILING AT ROOM ENTRY.
- C CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR EXACT QUANTITY OF OCCUPANCY SENSORS (FOR COMPLETE ROOM COVERAGE) AND PROVIDE ANY ADDITIONAL COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE COMPONENT MOUNTING LOCATIONS FOR PROPER CLEARANCE AND ACCESSIBILITY PRIOR TO ROUGH-IN. COORDINATE PROGRAMMING OF ZONES AND WALL STATION CONFIGURATIONS, AS SHOWN ON DRAWINGS, WITH MANUFACTURER.
- D DETAIL IS SCHEMATIC IN NATURE. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR EXACT WIRING INFORMATION.
- E PROVIDE ISOLATED FORM C CONTACT OUTPUT INDICATING SPACE OCCUPIED FOR BAS CONTROL, WHERE NOTED.

**3 VACANCY SENSING MULTI-ZONE CONTROLLED DIMMING**

SCALE: NONE

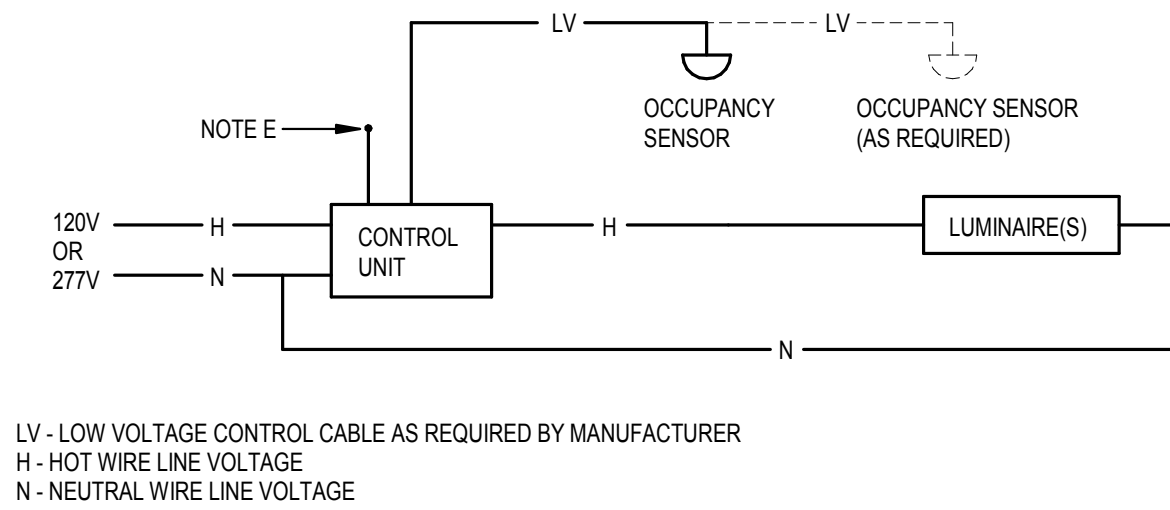


**GENERAL DETAIL NOTES**

- A ALL PENETRATIONS FROM MECHANICAL SPACE SHALL BE SEALED IN THIS MANNER.
- B WHEN WALL IS FIRE RATED: DETAIL SHALL BE SIMILAR BUT FOLLOW MATERIAL INSTALLATION REQUIREMENTS PER MANUFACTURER AND FIRE PROOFING SPECIFICATIONS.

**4 TYPICAL CONDUIT AND WALL PENETRATIONS**

SCALE: NONE

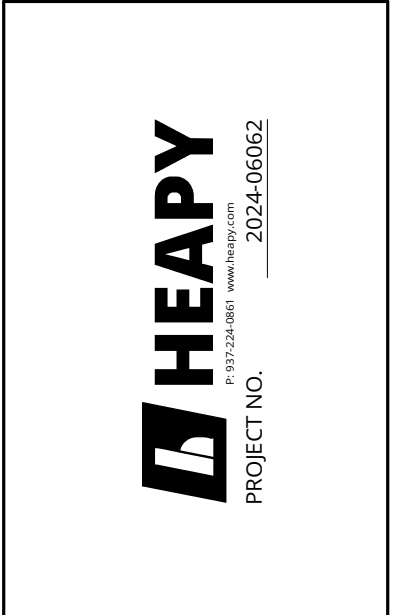


GENERAL NOTES

- A OPERATION INTENT IS FOR OCCUPANCY SENSING ON/OFF OPERATION OF ALL CORRIDOR LIGHTS. CONTROL UNIT SHALL PROVIDE AN ON/OFF FOR ALL ZONES.
- B CONTROL UNIT SHALL BE MOUNTED IN AN ENCLOSURE PER MANUFACTURER'S DIRECTION. MOUNT CONTROL UNIT ABOVE ACCESSIBLE CEILING AT ROOM ENTRY.
- C CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR EXACT QUANTITY OF OCCUPANCY SENSORS (FOR COMPLETE ROOM COVERAGE) AND PROVIDE ANY ADDITIONAL COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE COMPONENT MOUNTING LOCATIONS FOR PROPER CLEARANCE AND ACCESSIBILITY PRIOR TO ROUGH-IN. COORDINATE PROGRAMMING OF ZONES AND WALL STATION CONFIGURATIONS, AS SHOWN ON DRAWINGS, WITH MANUFACTURER.
- D DETAIL IS SCHEMATIC IN NATURE. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR EXACT WIRING INFORMATION.
- E PROVIDE ISOLATED FORM C CONTACT OUTPUT INDICATING SPACE OCCUPIED FOR BAS CONTROL, WHERE NOTED.

**5 OCCUPANCY SENSOR WITH OVERRIDE CONTROL**

SCALE: NONE



DESIGNED BY: MPH  
DRAWN BY: MPH  
CHECKED BY: CRK

DATE:				

**EMS Classrooms & Sim Lab Bldg. 14**  
Sinclair College  
444 West 38th Street  
Dayton, OH 45402

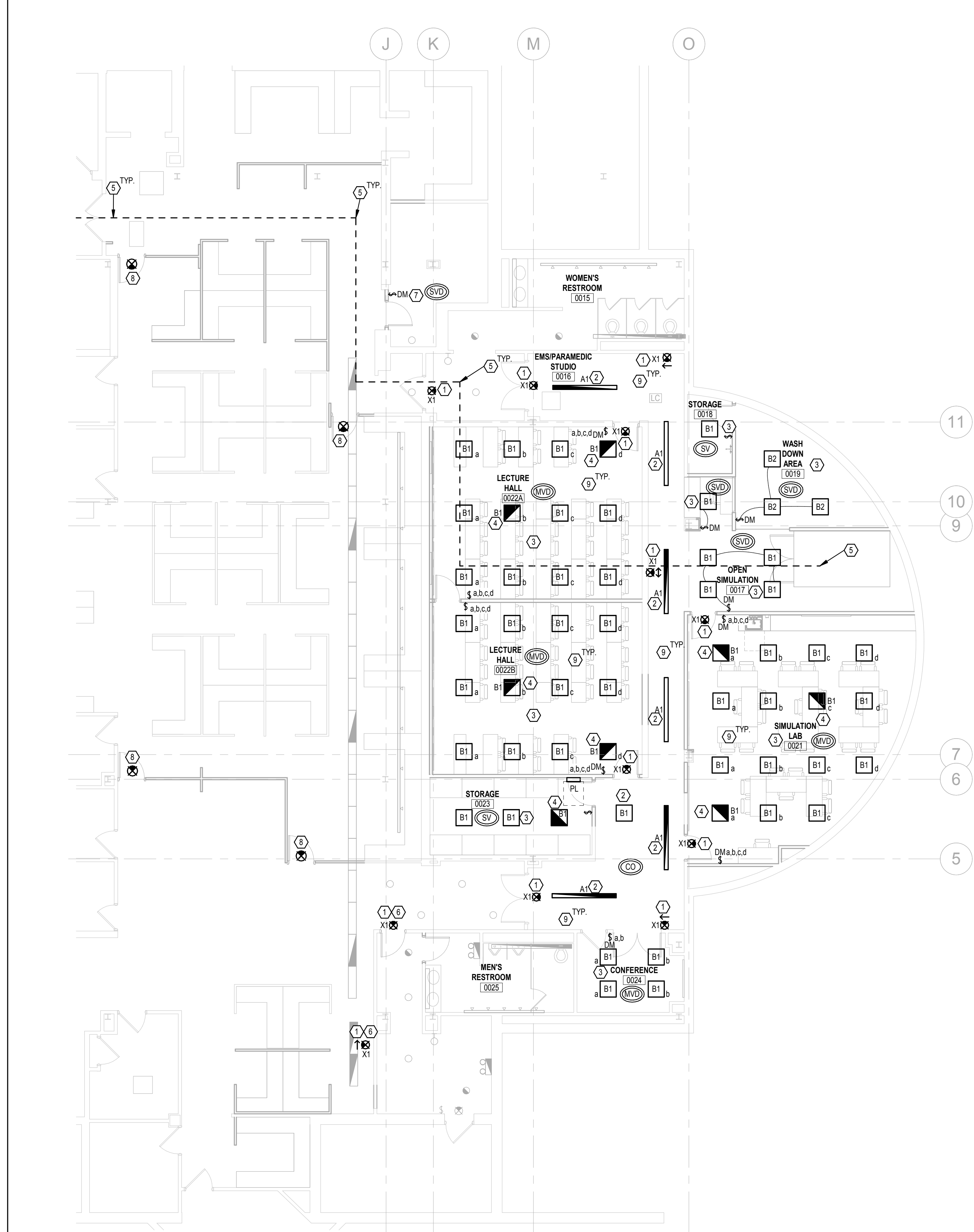
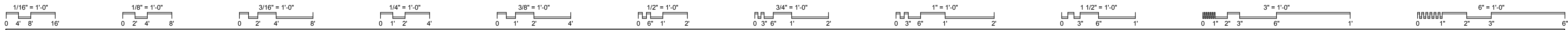
**DETAILS**

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

**E004**

JOB NO.: 24011

DATE: 01/20/2025

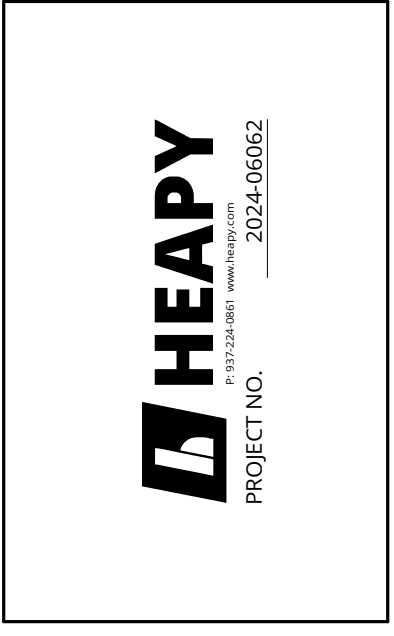
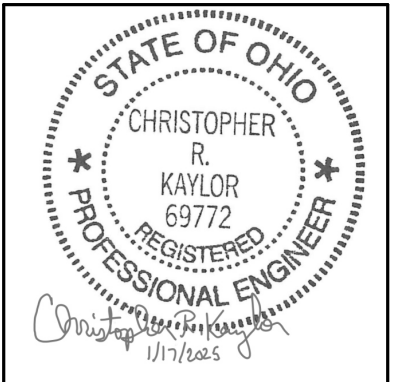


**PLAN NOTES**

1. WIRE ALL EXIT LIGHTING ON COMMON EMERGENCY CIRCUIT AHEAD OF ANY/ALL LOCAL SWITCHES AND SENSORS. EXIT LIGHTS SHALL BE ON 24 HOURS. RUN ALL EXIT LIGHT CIRCUITS WITH 2#10, 1#10 GRD. IN 1" C. THROUGHOUT.
2. MAINTAIN EXISTING LIGHTING CIRCUIT IN CORRIDOR AS INDICATED.
3. UTILIZE EXISTING NORMAL LIGHTING CIRCUIT PREVIOUSLY SERVING REMOVED LIGHT FIXTURES IN THIS SPACE TO SERVE THE NEW LIGHT FIXTURES. PROVIDE CONTROLS/SWITCHING AS INDICATED ON PLANS. MARK CIRCUIT NUMBER ON AS-BUILTS.
4. UTILIZE EXISTING EMERGENCY LIGHTING CIRCUIT PREVIOUSLY SERVING REMOVED LIGHT FIXTURES IN THIS SPACE TO SERVE THE NEW LIGHT FIXTURES. PROVIDE CONTROLS/SWITCHING AS INDICATED ON PLANS. MARK CIRCUIT NUMBER ON AS-BUILTS.
5. E.C. SHALL COORDINATE TEMPORARY REMOVAL/DISCONNECTION OF EXISTING LIGHT FIXTURES WITH P.C. ALONG NEW PATH OF MEDICAL AIR PIPING PRIOR TO ROUGH-IN AND SHALL PROVIDE ACCORDINGLY. REINSTALL EXISTING LIGHT FIXTURES IN SAME LOCATIONS.
6. IF ALTERNATE 2 IS ACCEPTED, PROVIDE NEW EXIT SIGN IN LOCATION INDICATED. IF ALTERNATE 2 IS NOT ACCEPTED, MAINTAIN EXISTING EXIT SIGNS AS INDICATED PER NOTE 7 ON SHEET ED100.
7. MAINTAIN EXISTING LIGHTING FIXTURES AND LIGHTING CIRCUIT IN SPACE AND PROVIDE NEW LIGHTING CONTROLS AS INDICATED, WITH NEW CONTROL WIRING BETWEEN SWITCH AND FIXTURES AS REQUIRED.
8. NON-LIT EXIT SIGNS TO BE PROVIDED BY FURNITURE SUPPLIER FOR EGRESS OUT OF OPEN OFFICE CUBICLE AREA. NO POWER IS REQUIRED AT THESE EXIT SIGNS.
9. E.C. SHALL MAINTAIN ALL LIGHTING CONTROL EQUIPMENT/DEVICES ABOVE AREA OF WORK THROUGHOUT ALL DEMO AND NEW WORK. EQUIPMENT AND DEVICES ARE LOCATED ABOVE CEILING.

**GENERAL NOTES**

- A. A PORTION OF THIS FLOOR IN THE BUILDING WILL BE REMODELED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS WHERE DEMO AND NEW WORK WILL OCCUR. E.C. SHALL REMOVE, ELECTRICAL DEVICES, SYSTEM COMPONENTS AND OTHER EQUIPMENT ASSOCIATED WITH DIVISION 26, 27, AND 28 TO ACCOMMODATE ALL NEW CONSTRUCTION AND REMODELING IN THESE AREAS. ONLY EXISTING RECESSED DEVICES, DEVICES SERVING EXISTING EQUIPMENT TO REMAIN, AND DEVICES INDICATED AS EXISTING SHALL BE MAINTAINED ACTIVE (UNLESS INDICATED OTHERWISE). REFER TO GENERAL NOTES "I" AND "J", ON SHEET E001.
- B. ALL EQUIPMENT, LIGHT FIXTURES, CONDUIT, CONDUCTORS, FIRE ALARM WIRING, AND ANY OTHER ELECTRICAL RELATED EQUIPMENT BEING MOUNTED IN THE CEILING OR ABOVE THE CEILING SHALL BE PLENUM RATED.
- C. THE OCCUPANCY SENSORS SERVING FIXTURES IN COMMON SPACES/CORRIDORS SHALL BE WIRED TOGETHER SO THE LIGHTING OPERATES AS ALL ONE SPACE.
- D. WHERE NEW DEVICE(S) ARE TO BE PROVIDED ON EXISTING SOLID BLOCK WALL, PROVIDE WITH SURFACE RACEWAY PER GENERAL NOTE G, SHEET E001. WHERE NEW DEVICES ARE SHOWN ON NEW WALL OR EXISTING STUD WALLS DEVICES SHALL BE RECESSED. INTENT IS THAT WHERE EVER POSSIBLE DEVICES SHALL BE RECESSED.
- E. WHERE CONDUITS ARE EXPOSED THEY SHALL BE MOUNTED TIGHT TO THE CEILING STRUCTURE AND PAINTED TO MATCH WALL SURFACES.
- F. ALL EXISTING RECESSED DEVICES TO REMAIN IN AREAS WHERE THERE IS WORK SHALL BE PROVIDED WITH NEW DEVICES AND COVER PLATE. E.C. IS RESPONSIBLE TO VERIFY AND PROVIDE PROPER WIRING (PER NEC) TO EXISTING (TO REMAIN) DEVICES PER GENERAL NOTE N, SHEET E001. E.C. SHALL PROVIDE NEW BLANKS OVER RECESSED NON-USED BACK BOXES.
- G. ALL EXISTING TO REMAIN DEVICES LOCATED ON NEWLY FURRED OUT WALLS SHALL BE PROVIDED WITH EXTENSION BOXES AND BE MOUNTED FLUSH IN NEW WALL.
- H. E.C. IS RESPONSIBLE TO PROVIDE ANY AND ALL ELECTRICAL WORK AND ROUGH-INS ASSOCIATED AND CALLED OUT ON THE TECHNOLOGY DRAWINGS/DETAILS. REFER TO TECHNOLOGY DRAWINGS FOR EXACT SCOPE OF WORK AND PROVIDE ACCORDINGLY.
- I. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT.
- J. ALL LIGHTING CONTROL WIRING SHALL BE IN CONDUIT.
- K. E.C. IS RESPONSIBLE FOR REMOVAL OF ANY/ALL CEILINGS TO ACCOMMODATE WORK ASSOCIATED WITH ROUTING OF NEW CONDUIT AND WIRING TO NEW EQUIPMENT/FURNITURE LOCATIONS. E.C. SHALL PROVIDE ALL CORE DRILLS AS REQUIRED TO PROVIDE POWER TO NEW EQUIPMENT/FURNITURE.
- L. WHERE REMOVAL OF ELECTRICAL DEVICES/BOXES OCCURS, PATCH AS REQUIRED AND REFER TO GENERAL NOTE F ON SHEET E001 FOR MORE INFORMATION.
- M. E.C. SHALL MAINTAIN ALL LIGHTING CONTROL EQUIPMENT/DEVICES ABOVE AREA OF WORK THROUGHOUT ALL DEMO AND NEW WORK. EQUIPMENT AND DEVICES ARE LOCATED ABOVE CEILING.
- N. PROVIDE CONNECTION FROM NEW LIGHTING CONTROLS IN EACH SPACE TO BUILDING'S LUTRON QUANTUM LIGHTING CONTROLS SYSTEM. PROVIDE ALL PROGRAMMING, TECHNICIAN'S TIME, LABOR, WIRING, CONNECTIONS, ACCESSORIES, ETC., AS REQUIRED FOR A COMPLETE LIGHTING CONTROL SYSTEM. COORDINATE ALL REQUIREMENTS ROUTING, AND LOCATIONS WITH OWNER AND LUTRON REP PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.



DESIGNED BY: MPH  
 DRAWN BY: MPH  
 CHECKED BY: CRK

DATE:				

**EMS Classrooms & Sim Lab Bldg. 14**  
 Sinclair College  
 444 West 38th Street  
 Dayton, OH 45402

**LOWER LEVEL**  
**LIGHTING FLOOR**  
**PLAN - NEW WORK**

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

**E100**

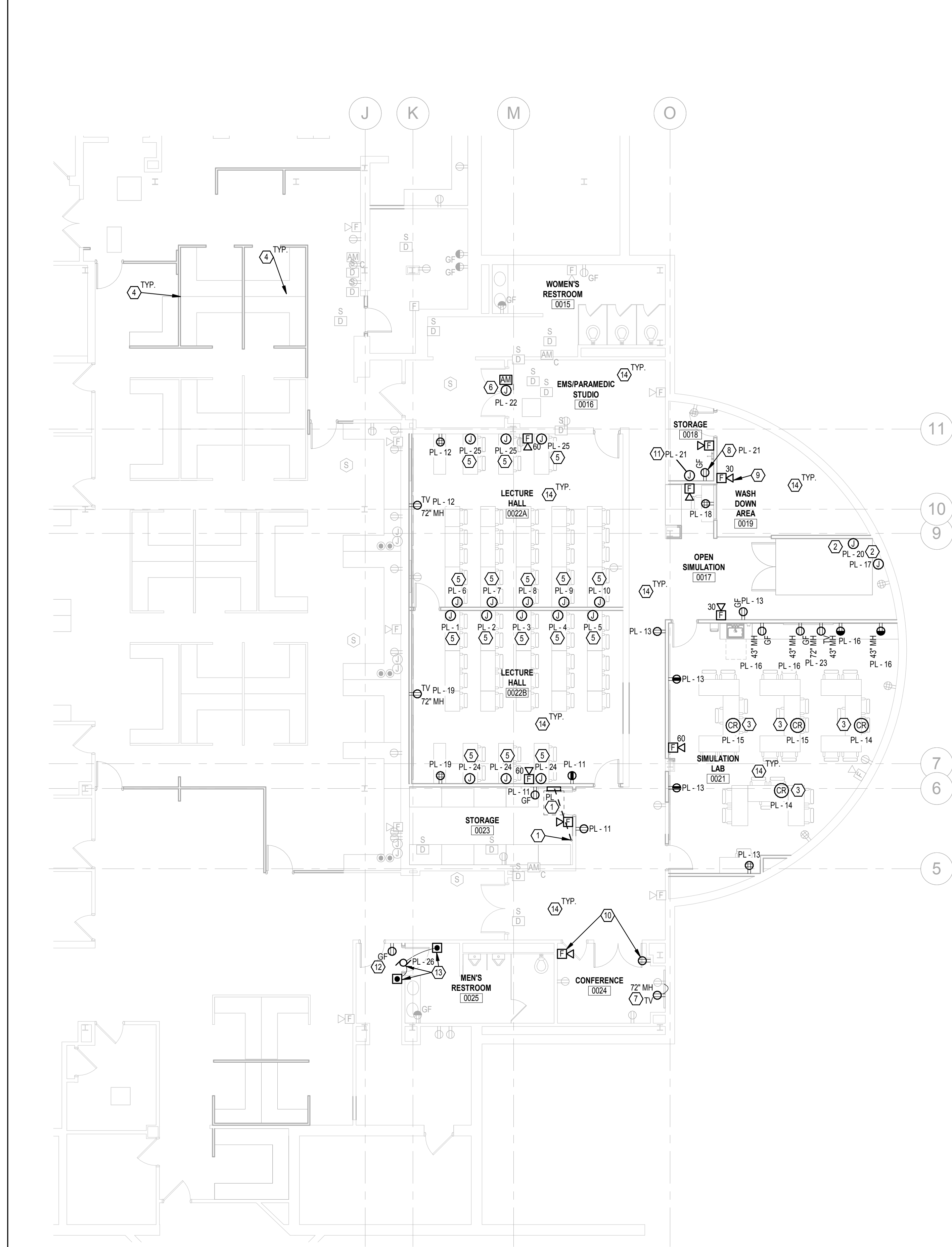
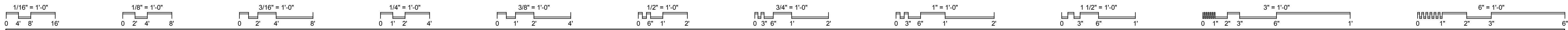
JOB NO.: 24011

DATE: 01/20/2025

**1 LIGHTING LOWER LEVEL**  
 SCALE: 1/8" = 1'-0"







**1 POWER & SYSTEMS LOWER LEVEL**  
SCALE: 1/8" = 1'-0"

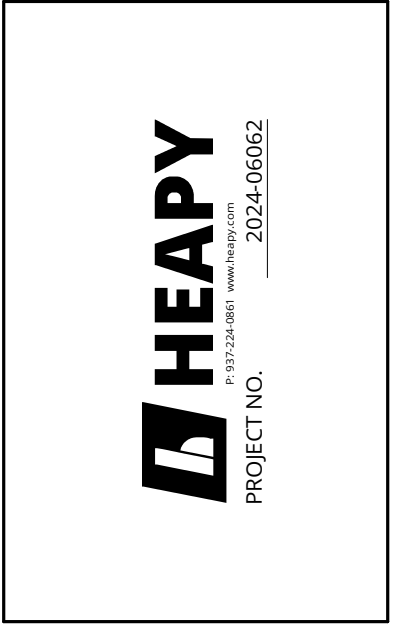


**PLAN NOTES**

1. E.C. SHALL REMOVE EXISTING PANEL PL AND REUSE EXISTING FEEDER FOR NEW PANEL PL IN NEW LOCATION AS ABLE. SAWCUT FLOOR AS NEEDED TO RELOCATE AND EXTEND EXISTING FEEDER TO NEW LOCATION. MATCHING EXISTING FEEDER SIZE, RATINGS, MATERIALS AND CHARACTERISTICS. ASSUMED EXISTING FEEDER IS 4-#30 CU, 1-#6 GRD IN 2.5" C. INTENT IS FEEDER IS UNDER RAISED FLOOR AND SPLICE IS ABLE TO BE DONE BELOW FLOOR.
2. PROVIDE 20A, 120V-1PH POWER CONNECTION FOR AMBULANCE WITH 2-#12, 1-#12 GRD IN 0.75" C. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
3. NEW CORD REEL WITH 25 FT. LONG CORD, QUAD 20A GFCI RECEPTACLES AND #12 WIRING. BASIS OF DESIGN: LEGRAND #CRCD129G25R20.
4. MAINTAIN EXISTING FURNITURE FLOOR POWER CONNECTIONS FOR ROTATED FURNITURE AND RECONNECT AS REQUIRED. EXTEND WIRING/WHIPS TO NEW CONNECTION LOCATIONS. MATCHING EXISTING SIZING, RATINGS AND CHARACTERISTICS. COORDINATE FINAL LOCATIONS WITH ARCHITECT AND EXISTING CONDITIONS PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
5. TABLE RECEPTACLES (FURNISHED WITH TABLE) SHALL RECEIVE POWER FROM BELLBOX/RECEPTACLE ON WALL. PROVIDE WIRING, SEALTIGHT FLEXIBLE CONDUIT AND RECEPTACLE AT EACH SEAT FOR ENTIRE RUN. STAGE WORK BASED ON ROUGH-IN OF ELECTRICAL DEVICES/ITEMS. E.C. SHALL VERIFY EXACT CONNECTION REQUIREMENTS, MOUNTING AND TERMINATION LOCATIONS WITH OWNER AND TABLE MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY. SEALTIGHT CONDUIT SHALL BE SECURELY MOUNTED TO UNDERSIDE OF TABLE AND HIDDEN FROM VIEW.
6. PROVIDE FIRE ALARM CONNECTION FROM SMOKE DAMPER AND INTERFACE TO FIRE ALARM SYSTEM AS REQUIRED, ALONG WITH 20A, 120V POWER WITH 2-#12, 1-#12 GRD IN 0.75" C. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH H.C. AND DUCTWORK PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
7. EXTEND EXISTING CIRCUIT TO NEW RECEPTACLE AS INDICATED, EXTENDING EXISTING WIRING MATCHING SIZE, RATINGS, MATERIALS AND CHARACTERISTICS. ASSUMED EXISTING CIRCUIT IS 2-#12, 1-#12 GRD IN 0.75" C.
8. PROVIDE 20A, 120V-1PH POWER AND GFCI RECEPTACLE FOR DRAIN PUMP WITH 2-#12, 1-#12 GRD IN 0.75" C. COORDINATE EXACT CONNECTION LOCATION WITH P.C. PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
9. FIRE ALARM DEVICE SHALL BE WEATHER/WET RATED.
10. IF ALTERNATE 1 IS ACCEPTED, PROVIDE NEW FIRE ALARM DEVICE AND DUPLEX RECEPTACLE IN LOCATION INDICATED. IF ALTERNATE 1 IS NOT ACCEPTED, MAINTAIN EXISTING FIRE ALARM DEVICE AND EXISTING DOUBLE DUPLEX RECEPTACLE INDICATED PER NOTE 6 ON SHEET ED100.
11. PROVIDE 20A, 120V-1PH POWER CONNECTION FOR DRAIN PUMP CONTROL PANEL WITH 2-#12, 1-#12 GRD IN 0.75" C. COORDINATE EXACT CONNECTION LOCATION WITH P.C. PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
12. IF ALTERNATE 2 IS ACCEPTED, PROVIDE NEW RECEPTACLE IN LOCATION INDICATED, EXTENDING EXISTING CIRCUIT AND WIRING TO NEW LOCATION FROM REMOVED LOCATION AS INDICATED IN NOTE 7 ON SHEET ED100. IF ALTERNATE 2 IS NOT ACCEPTED, MAINTAIN EXISTING RECEPTACLE AS INDICATED PER NOTE 7 ON SHEET ED100.
13. IF ALTERNATE 2 IS ACCEPTED, PROVIDE NEW POWER AND PUSHBUTTONS FOR MENS RESTROOM DOOR ADA OPERATOR IN LOCATION INDICATED. COORDINATE ALL HARDWARE, CONNECTIONS, LOCATIONS, ETC... WITH MANUFACTURER AND ARCHITECT FOR A COMPLETE AND OPERATIONAL INSTALLATION PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY. IF ALTERNATE 2 IS NOT ACCEPTED, NO NEW POWER OR PUSHBUTTONS SHALL BE PROVIDED FOR MENS RESTROOM ADA OPERATOR.
14. E.C. SHALL MAINTAIN ALL LIGHTING CONTROL EQUIPMENT/DEVICES ABOVE AREA OF WORK THROUGHOUT ALL DEMO AND NEW WORK. EQUIPMENT AND DEVICES ARE LOCATED ABOVE CEILING.

**GENERAL NOTES**

- A. A PORTION OF THIS FLOOR IN THE BUILDING WILL BE REMODELED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS WHERE DEMO AND NEW WORK WILL OCCUR. E.C. SHALL REMOVE, ELECTRICAL DEVICES, SYSTEM COMPONENTS AND OTHER EQUIPMENT ASSOCIATED WITH DIVISION 26, 27, AND 28 TO ACCOMMODATE ALL NEW CONSTRUCTION AND REMODELING IN THESE AREAS. ONLY EXISTING RECESSED DEVICES, DEVICES SERVING EXISTING EQUIPMENT TO REMAIN, AND DEVICES INDICATED AS EXISTING SHALL BE MAINTAINED ACTIVE (UNLESS INDICATED OTHERWISE). REFER TO GENERAL NOTES "I" AND "J", ON SHEET E001.
- B. ALL EQUIPMENT, LIGHT FIXTURES, CONDUIT, CONDUCTORS, FIRE ALARM WIRING, AND ANY OTHER ELECTRICAL RELATED EQUIPMENT BEING MOUNTED IN THE CEILING OR ABOVE THE CEILING SHALL BE PLENUM RATED.
- C. THE OCCUPANCY SENSORS SERVING FIXTURES IN COMMON SPACES/CORRIDORS SHALL BE WIRED TOGETHER SO THE LIGHTING OPERATES AS ALL ONE SPACE.
- D. WHERE NEW DEVICE(S) ARE TO BE PROVIDED ON EXISTING SOLID BLOCK WALL, PROVIDE WITH SURFACE RACEWAY PER GENERAL NOTE G, SHEET E001. WHERE NEW DEVICES ARE SHOWN ON NEW WALL OR EXISTING STUD WALLS DEVICE(S) SHALL BE RECESSED. INTENT IS THAT WHERE EVER POSSIBLE DEVICES SHALL BE RECESSED.
- E. WHERE CONDUITS ARE EXPOSED THEY SHALL BE MOUNTED TIGHT TO THE CEILING STRUCTURE AND PAINTED TO MATCH WALL SURFACES.
- F. ALL EXISTING RECESSED DEVICES TO REMAIN IN AREAS WHERE THERE IS WORK SHALL BE PROVIDED WITH NEW DEVICES AND COVERPLATE. E.C. IS RESPONSIBLE TO VERIFY AND PROVIDE PROPER WIRING (PER NEC) TO EXISTING (TO REMAIN) DEVICES PER GENERAL NOTE N, SHEET E001. E.C. SHALL PROVIDE NEW BLANKS OVER RECESSED NON-USED BACK BOXES.
- G. ALL EXISTING TO REMAIN DEVICES LOCATED ON NEWLY FURRED OUT WALLS SHALL BE PROVIDED WITH EXTENSION BOXES AND BE MOUNTED FLUSH IN NEW WALL.
- H. E.C. IS RESPONSIBLE TO PROVIDE ANY AND ALL ELECTRICAL WORK AND ROUGH-INS ASSOCIATED AND CALLED OUT ON THE TECHNOLOGY DRAWINGS/DETAILS. REFER TO TECHNOLOGY DRAWINGS FOR EXACT SCOPE OF WORK AND PROVIDE ACCORDINGLY.
- I. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT.
- J. ALL LIGHTING CONTROL WIRING SHALL BE IN CONDUIT.
- K. E.C. IS RESPONSIBLE FOR REMOVAL OF ANY/ALL CEILINGS TO ACCOMMODATE WORK ASSOCIATED WITH ROUTING OF NEW CONDUIT AND WIRING TO NEW EQUIPMENT/FURNITURE LOCATIONS. E.C. SHALL PROVIDE ALL CORE DRILLS AS REQUIRED TO PROVIDE POWER TO NEW EQUIPMENT/FURNITURE.
- L. WHERE REMOVAL OF ELECTRICAL DEVICES/BOXES OCCURS, PATCH AS REQUIRED AND REFER TO GENERAL NOTE F ON SHEET E001 FOR MORE INFORMATION.
- M. E.C. SHALL MAINTAIN ALL LIGHTING CONTROL EQUIPMENT/DEVICES ABOVE AREA OF WORK THROUGHOUT ALL DEMO AND NEW WORK. EQUIPMENT AND DEVICES ARE LOCATED ABOVE CEILING.
- N. NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH AND MATCH EXISTING FIRE ALARM SYSTEM MANUFACTURER.



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DRAWN BY: MPH  
CHECKED BY: CRK

DATE:				

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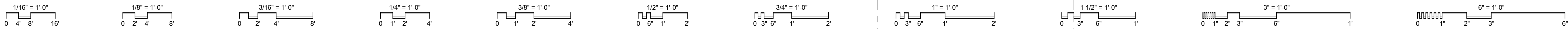
**LOWER LEVEL  
POWER & SYSTEMS  
FLOOR PLAN - NEW  
WORK**

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

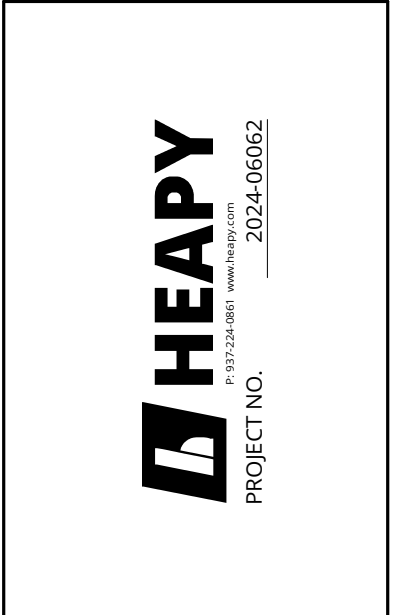
**E200**

JOB NO.: 24011

DATE: 01/20/2025



- PLAN NOTES**
- EXISTING CONDUIT SLEEVES UP THROUGH FLOOR
  - EXISTING CABLING PATHWAYS (CONDUIT SLEEVES AND CABLE SLOTS) UP THROUGH FLOOR SERVING EXISTING DATA CABLING TO BE REMOVED. EXISTING CABLING IS FED FROM TR 14208 ON SECOND FLOOR.
  - EXISTING LEVEL ACCESS CONTROL PANEL
  - EXISTING ACCESS CONTROL POWER SUPPLIES
  - EXISTING CABLE TRAY ABOVE CEILING
  - EXISTING FIBER OUTLET WITH TWO (2) DUPLEX LC CONNECTORS, INCLUDING CABLING TO BE REMOVED BACK TO TR-14208.
  - EXISTING WAP OUTLET TO BE REMOVED.
  - REMOVE EXISTING PAGING SPEAKER. EXISTING PAGING CIRCUIT TO BE MAINTAINED AND EXTENDED TO NEW PAGING SPEAKERS.
  - EXISTING AUDIO PATCH PANEL, WITH CABLING TO EXISTING CONTROL ROOM) TO BE REMOVED. (6-MIC, 1-INTERCOM, 1-AUX)



DESIGNED BY: Designer  
 DRAWN BY: Author  
 CHECKED BY: Checker

DATE:	REVISIONS:

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 Dayton, OH 45402

**LOWER LEVEL PLAN**  
**- TECHNOLOGY**  
**DEMOLITION**

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

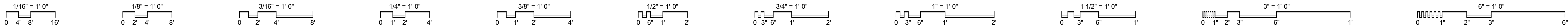
**TD101**

JOB NO.: 24011

DATE: 01/20/2025

**1 ELECTRICAL LOWER LEVEL**  
 SCALE: 1/8" = 1'-0"





### AV SYMBOLS

	FLAT PANEL DISPLAY WITH WALL MOUNTING HARDWARE (84" MH UNLESS NOTED OTHERWISE). # INDICATES NOMINAL SCREEN DIAGONAL SIZE.
	INTERACTIVE FLAT PANEL DISPLAY WITH WALL MOUNTING HARDWARE (84" MH UNLESS NOTED OTHERWISE). # INDICATES NOMINAL SCREEN DIAGONAL SIZE.

### AV SYMBOLS WITH ELECTRICAL REQUIREMENTS

	SINGLE FACED WALL MOUNTED CLOCK (102" MH UNLESS NOTED OTHERWISE). 12" DIAMETER PRIMEX 120V ANALOG CLOCK WITH WIRELESS SYNCHRONIZATION.
	RECESSED CEILING MOUNTED SOUND PAGING SYSTEM SPEAKER. CONNECT TO EXISTING LOCAL PAGING CIRCUIT.
	WALL MOUNTED SOUND SYSTEM SPEAKER. 1-GANG BOX WITH 1" CONDUIT TO ABOVE CEILING, SPEAKER AND CABLING.

### SECURITY SYMBOLS WITH ELECTRICAL REQUIREMENTS

	WALL MOUNTED PROXIMITY CARD READER (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING, CARD READER AND CABLING. REFER TO SECURITY ROUGH-IN DETAILS.
	ELECTRONIC DOOR CONTROL. SUBSCRIPT "X" INDICATES SPECIFIC DOOR. REFER TO ELECTRONIC DOOR CONTROL SCHEDULE FOR REQUIREMENTS.

### TECHNOLOGY SYMBOLS WITH ELEC. REQUIREMENTS

	CONDUIT SLEEVE / FIRE RATED SLEEVE ASSEMBLY THRU WALL (1-2" SLEEVE UNLESS NOTED OTHERWISE).
	WALL MOUNTED DATA OUTLET (18" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT(S) TO ABOVE ACCESSIBLE CEILING, JACKS, FACEPLATE AND CABLING. SUBSCRIPT "X" DESIGNATES QUANTITY OF DATA CABLES. REFER TO FACEPLATE DETAILS.
	CEILING MOUNTED WIRELESS ACCESS POINT. OFCI. PROVIDE DUAL DATA DROP AT AP LOCATION.
	WALL MOUNTED AV OUTLET (18" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUITS TO ABOVE ACCESSIBLE CEILING. REFER TO FACEPLATE DETAILS. JACKS, FACEPLATE AND CABLING. SUBSCRIPT "X" INDICATES ALTERNATE CONFIGURATION.
	TELECOM BOX AND CONDUIT TO ABOVE ACCESSIBLE CEILING, REFER TO PLANS. REFER TO FACEPLATE DETAILS.
	WALL MOUNTED AV OUTLET (44" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING, JACKS, FACEPLATE AND CABLING. SUBSCRIPT "X" INDICATES ALTERNATE CONFIGURATION. REFER TO FACEPLATE DETAILS.

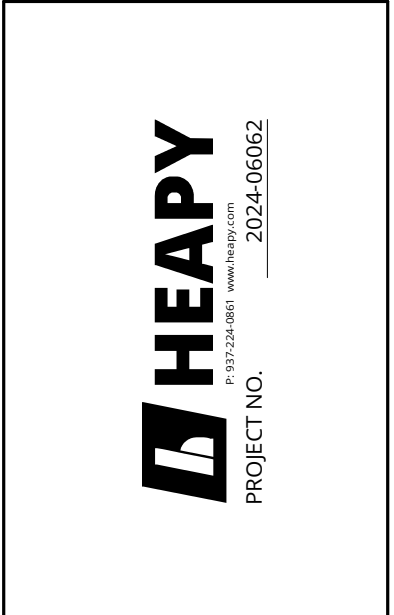
### GENERAL FLOOR PLAN NOTES

	DETAIL- B = DETAIL DESIGNATION T2 = SHEET WHERE DETAIL IS LOCATED
	SECTION: 1 = SECTION DESIGNATION T2 = SHEET WHERE SECTION IS LOCATED
	ELEVATION: 1 = ELEVATION DESIGNATION T2 = SHEET WHERE ELEVATION IS LOCATED
	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	LADDER TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	CABLE TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	CONDUIT RUN IN WALL OR ABOVE CEILING.
	CONDUIT RUN IN SLAB OR UNDERGROUND.
	CABLE MANAGEMENT SYSTEM PATHWAY.
	DASH SYMBOL INDICATES PARTICULAR OUTLET, DEVICE, OR EQUIPMENT TO BE REMOVED AND SUPPORTING CABLING TO BE REMOVED BACK TO SOURCE OF ORIGIN UNLESS NOTED OTHERWISE.
	EXISTING OUTLET, DEVICE, OR EQUIPMENT TO REMAIN. MAINTAIN EXISTING CABLING.
	SURFACE MOUNTED OUTLET OR DEVICE. REFER TO PLANS AND DETAILS.

SHEET LIST	
SHEET NUMBER	SHEET NAME
T001	TECHNOLOGY LEGEND, GENERAL NOTES & INDEX
T002	TECHNOLOGY OUTLET DETAILS
T003	AV SYSTEM DETAIL
T004	AV SYSTEM DETAIL
T005	AV SYSTEM DETAIL
T006	AV OUTLET DETAILS
T007	SECURITY DETAILS
T101	LOWER LEVEL FLOOR PLAN - NEW WORK
T102	FIRST AND SECOND FLOOR PARTIAL PLANS
TD101	LOWER LEVEL PLAN - TECHNOLOGY DEMOLITION

### ABBREVIATIONS

AAP	- AREA ALARM PANEL - MEDICAL GAS
ACC	- ACCESS
ADJ	- ADJUSTABLE
AF	- ARC FAULT CIRCUIT INTERRUPTER
AFCI	- ARC FAULT CIRCUIT INTERRUPTER
AFF	- ABOVE FINISHED FLOOR TO BOTTOM OF ITEM
AFG	- ABOVE FINISHED GRADE TO BOTTOM OF ITEM
ALT	- ALTERNATE
AP	- ACCESS PANEL
APPROX	- APPROXIMATE
ARCH	- ARCHITECT OR ARCHITECTURAL
ASSY	- ASSEMBLY
ATS	- AUTOMATIC TRANSFER SWITCH
BLDG	- BUILDING
BOE	- BOTTOM OF EQUIPMENT
BOT	- BOTTOM
BTWN	- BETWEEN
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	- CIRCUIT
CLG	- CEILING
CMU	- CONCRETE MASONRY UNIT
CONN	- CONNECT OR CONNECTION
CONTR	- CONTRACTOR
CORR	- CORRIDOR
CTR	- CENTER
D	- DEPTH
DET	- DETAIL
DIA	- DIAMETER
DIM	- DIMENSION
DIV	- DIVISION
DN	- DOWN
DWG	- DRAWING
EA	- EACH
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)
EJ	- EXPANSION JOINT
ELEC	- ELECTRICAL
ELEV	- ELEVATION OR ELEVATOR
EM	- EMERGENCY
EQ	- EQUAL
EQS	- EQUIPMENT SUPPLIER
EQUIP	- EQUIPMENT
ETR	- EXISTING TO REMAIN
EX	- EXISTING
EXP	- EXPANSION
EXT	- EXTERIOR
FCE	- FIRE CONTROL EQUIPMENT
FF	- FINISHED FLOOR ELEVATION
FLR	- FLOOR
FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)
FT	- FEET
FTG	- FOOTING
GC	- GENERAL CONTRACTOR
GF	- GROUND FAULT CIRCUIT INTERRUPTER
GFCI	- GROUND FAULT CIRCUIT INTERRUPTER OR GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFFT	- GROUND FAULT FEED THRU
HC	- HVAC CONTRACTOR (DIVISION 23)
HP	- HORSE POWER OR HIGH POINT
HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING
ID	- INSIDE DIAMETER
IN	- INCHES
KEC	- KITCHEN EQUIPMENT CONTRACTOR
L	- LENGTH
LBS	- POUNDS
MAP	- MASTER ALARM PANEL (MEDICAL GAS)
MAX	- MAXIMUM
MEZZ	- MEZZANINE
MFR	- MANUFACTURER
MH	- MANHOLE OR MOUNTING HEIGHT TO CENTER LINE OF ITEM
MIN	- MINIMUM OR MINUTE
MISC	- MISCELLANEOUS
MTD	- MOUNTED
MTG	- MOUNTING
NIC	- NOT IN CONTRACT
NOM	- NOMINAL
NTS	- NOT TO SCALE
OD	- OUTSIDE DIAMETER
OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	- OWNER FURNISHED OWNER INSTALLED
PC	- PLUMBING CONTRACTOR (DIVISION 22)
PLBG	- PLUMBING
RAD	- RADIUS
REC	- RECESSED
REQD	- REQUIRED
RI	- ROUGH-IN
S	- SURFACE MOUNTED
SC	- SECURITY CONTRACTOR
SCH	- SCHEDULE
SHT	- SHEET
SMS	- SECURITY MANAGEMENT SYSTEM
SPEC	- SPECIFICATIONS
SQ	- SQUARE
SS	- STAINLESS STEEL
STD	- STANDARD
STRUC	- STRUCTURAL OR STRUCTURE
SUC	- SITE UTILITY CONTRACTOR
TC	- TECHNOLOGY CONTRACTOR
TEMP	- TEMPERATURE
TOE	- TOP OF EQUIPMENT
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
VFD	- VARIABLE FREQUENCY DRIVE
VOL	- VOLUME
W/	- WITH
W/O	- WITHOUT
WP	- WEATHERPROOF
ZVC	- ZONE VALVE CABINET



DESIGNED BY:	JEM
DRAWN BY:	ABS
CHECKED BY:	JDK

DATE:					
REVISIONS:					

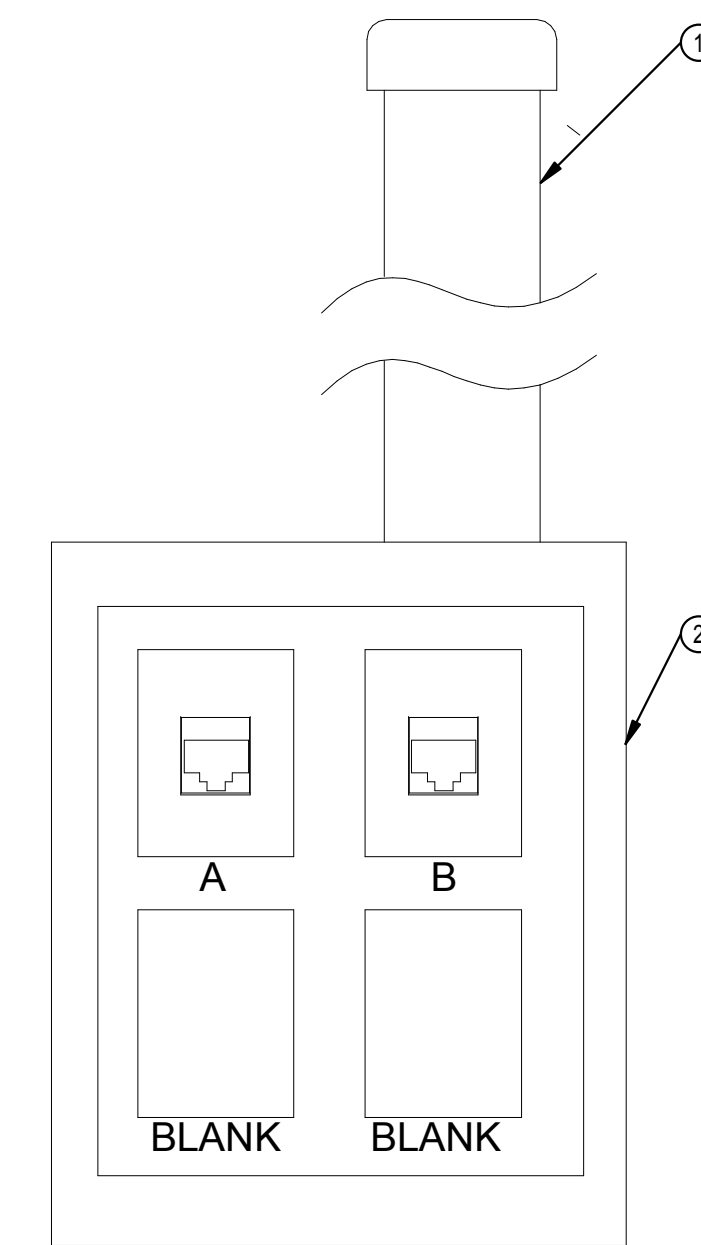
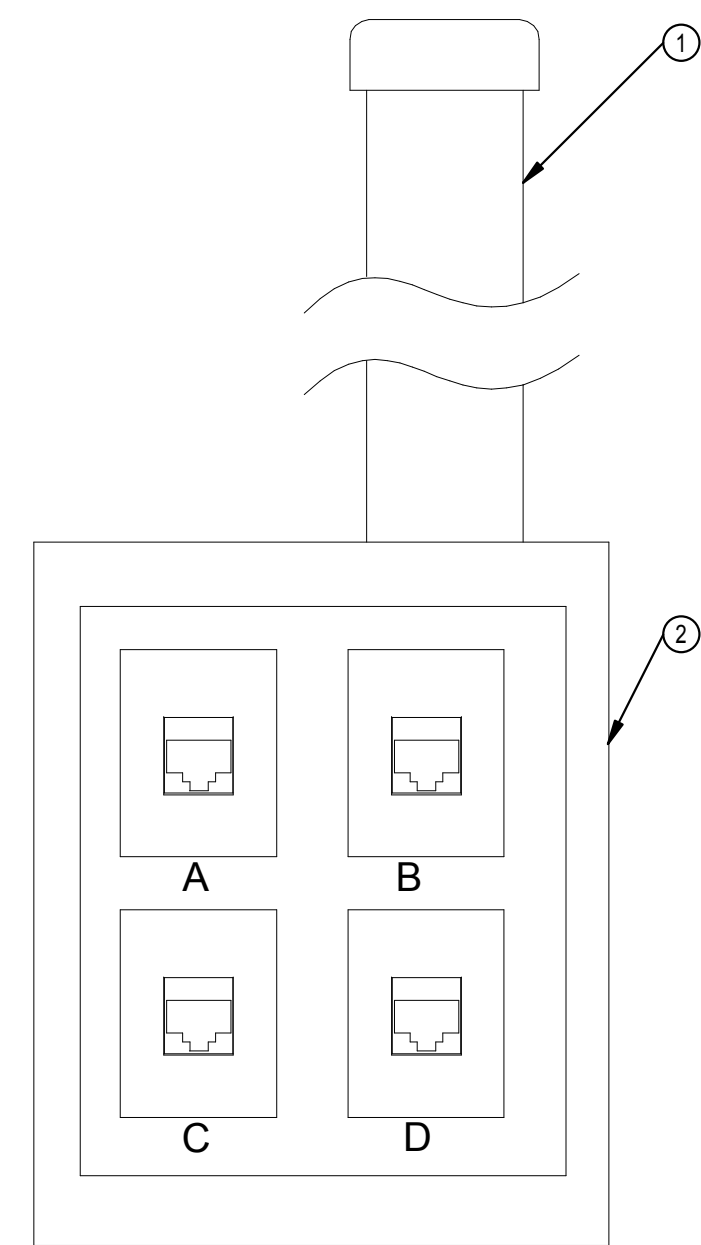
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Dayton, OH 45402

### TECHNOLOGY LEGEND, GENERAL NOTES & INDEX

SCALE:	12" = 1'-0"
<b>T001</b>	
JOB NO.:	24011
DATE:	01/20/2025

**DETAIL NOTES**

- 1" CONDUIT TO LOCAL CABLE TRAY
- 1-GANG BOX WITH FACEPLATE
- 2-GANG DEEP BOX WITH EXTENSION RING AND 1-GANG COVER.



AV OUTLET TYPE S040

DATA OUTLET TYPE S020

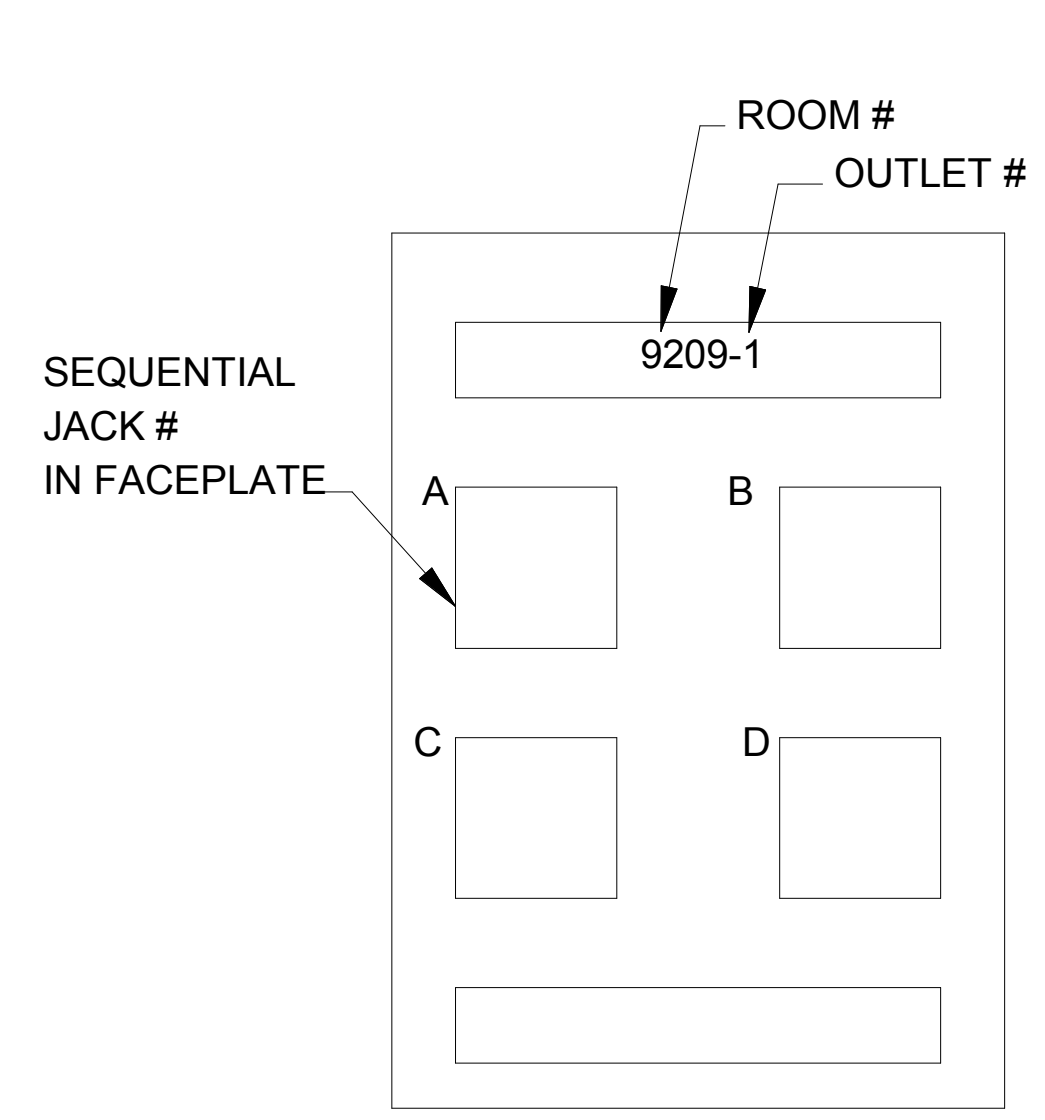
FACEPLATE: DUAL GANG PLASTIC

PORT	CONNECTOR	COLOR	CABLE	COLOR	APPLICATION
1	RJ45	_____	CAT6	_____	DATA
2	RJ45	_____	CAT6	_____	DATA
3	RJ45	_____	CAT6	-	DATA
4	RJ45	_____	CAT6	-	DATA

FACEPLATE: DUAL GANG PLASTIC

PORT	CONNECTOR	COLOR	CABLE	COLOR	APPLICATION
1	RJ45	_____	CAT6	_____	DATA
2	RJ45	_____	CAT6	_____	DATA
3					
4					

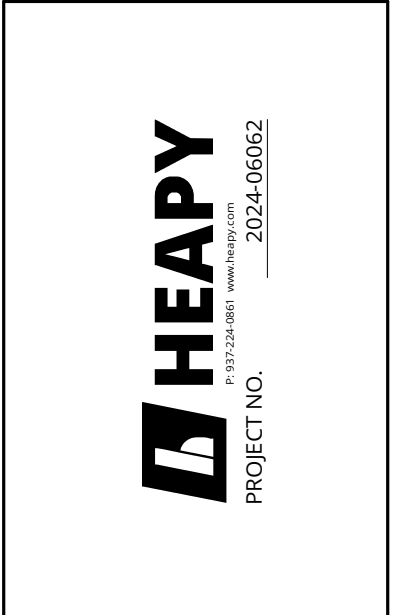
**1 DATA OUTLET DETAIL**



- ▽ = TELECOM OUTLET SYMBOL INDICATED ON LEGEND
- S X Y C
- X = # OF VOICE JACKS/CABLES
  - Y = # OF DATA JACKS/CABLES
  - C = # OF RG-6 COAXIAL CABLE WITH FITTING
- M = SINGLE GANG 4-BRT MODULAR FURNITURE FACEPLATE.
  - S = SINGLE GANG BOX WITH DRYWALL RING AND COVERPLATE FOR FLUSH MOUNTED APPLICATIONS.
  - D = TWO GANG BOX WITH DRYWALL RING AND COVERPLATE FOR FLUSH MOUNTED APPLICATIONS.
  - T = THREE GANG BOX WITH DRYWALL RING AND COVERPLATE FOR FLUSH MOUNTED APPLICATIONS.
  - F = SINGLE GANG BOX MOUNTED IN FSR FLAT PANEL DISPLAY BOX PWB-100.
  - E/R= EXISTING BOX AND CONDUIT TO BE REUSED, CABLING WILL BE NEW.

NOTE: REFER TO SPECIFICATIONS FOR ALL CABLING, JACKS AND ASSOCIATED SYSTEMS WORK REQUIREMENTS VOICE/DATA CONDUITS SHALL BE A MINIMUM SIZE OF 1".

**2 STANDARD FACEPLATE DETAIL**



DESIGNED BY: JEM  
DRAWN BY: ABS  
CHECKED BY: JDK

DATE:				
REVISIONS:				

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**TECHNOLOGY OUTLET DETAILS**

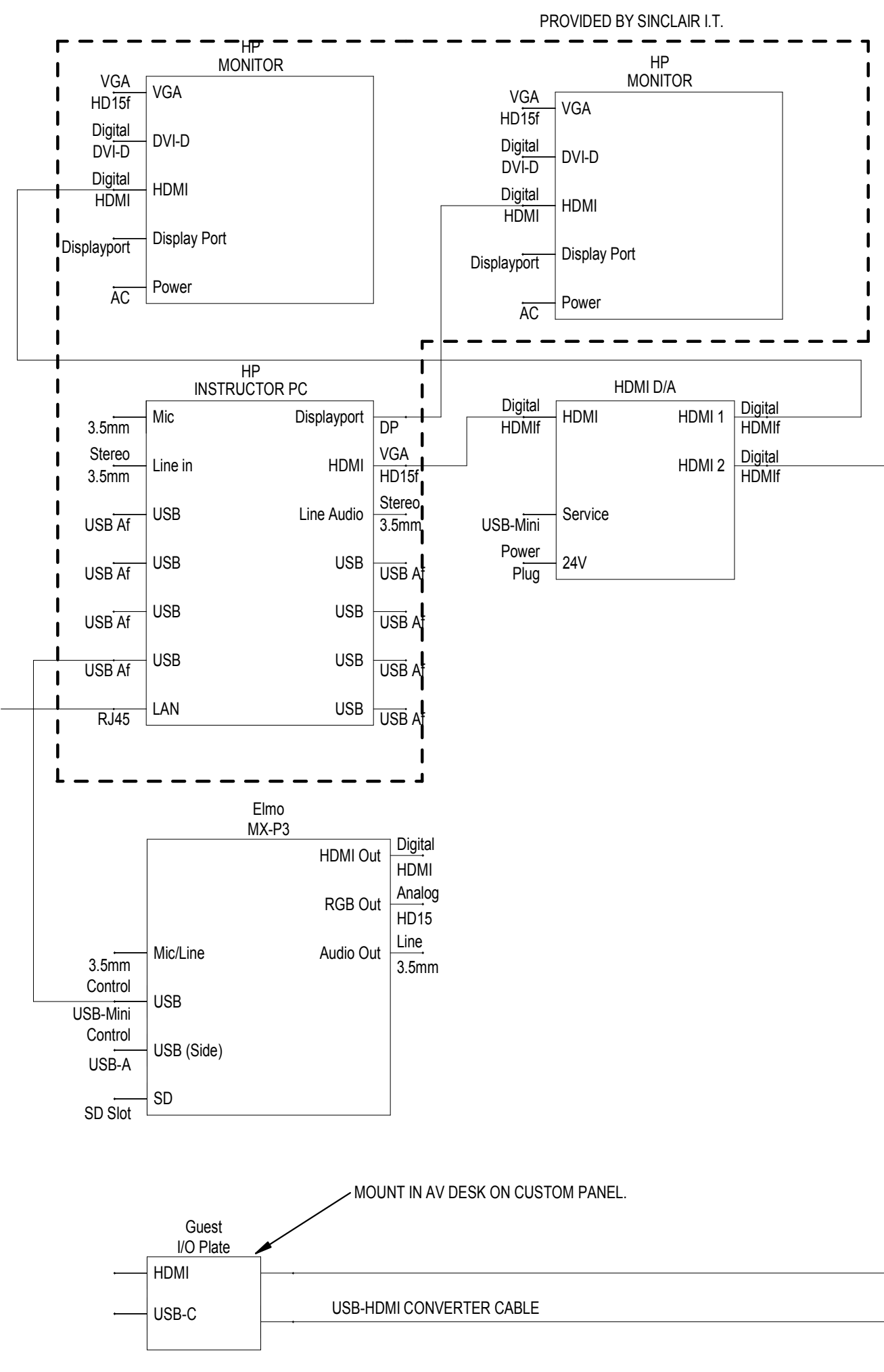
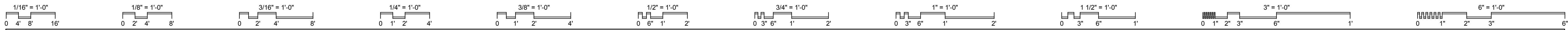
SCALE: 1/8" = 1'-0"

**T002**

JOB NO.: 24011

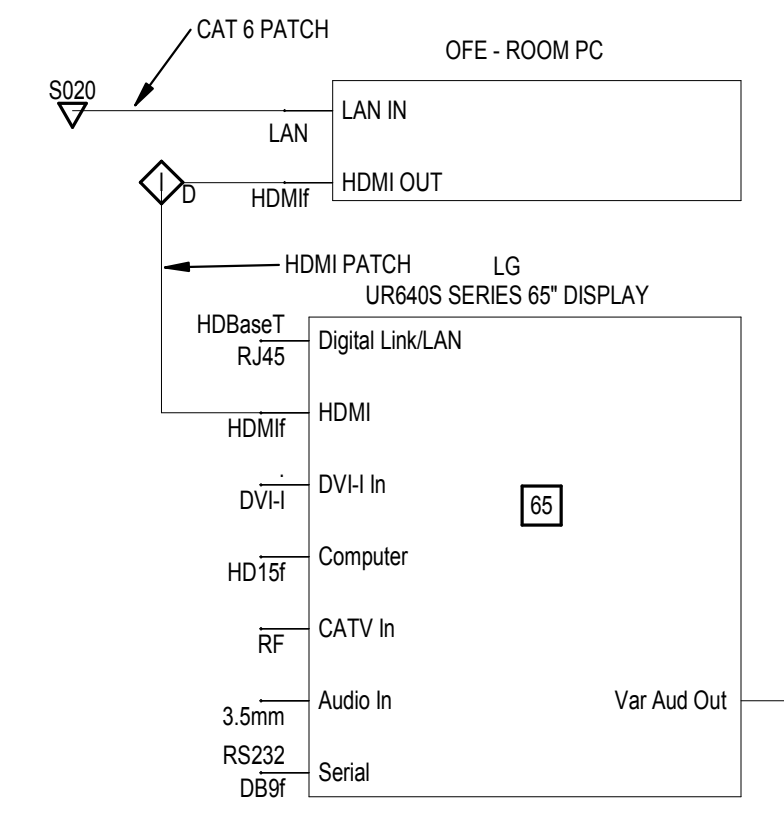
DATE: 01/20/2025





**9-OUTLET PDU  
MIDDLE ATLANTIC  
PD-915R**

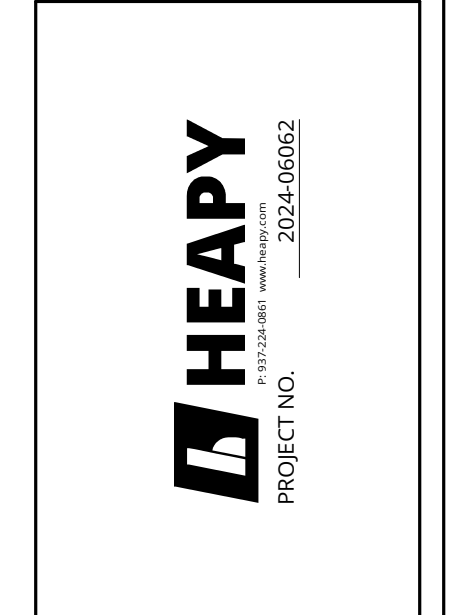
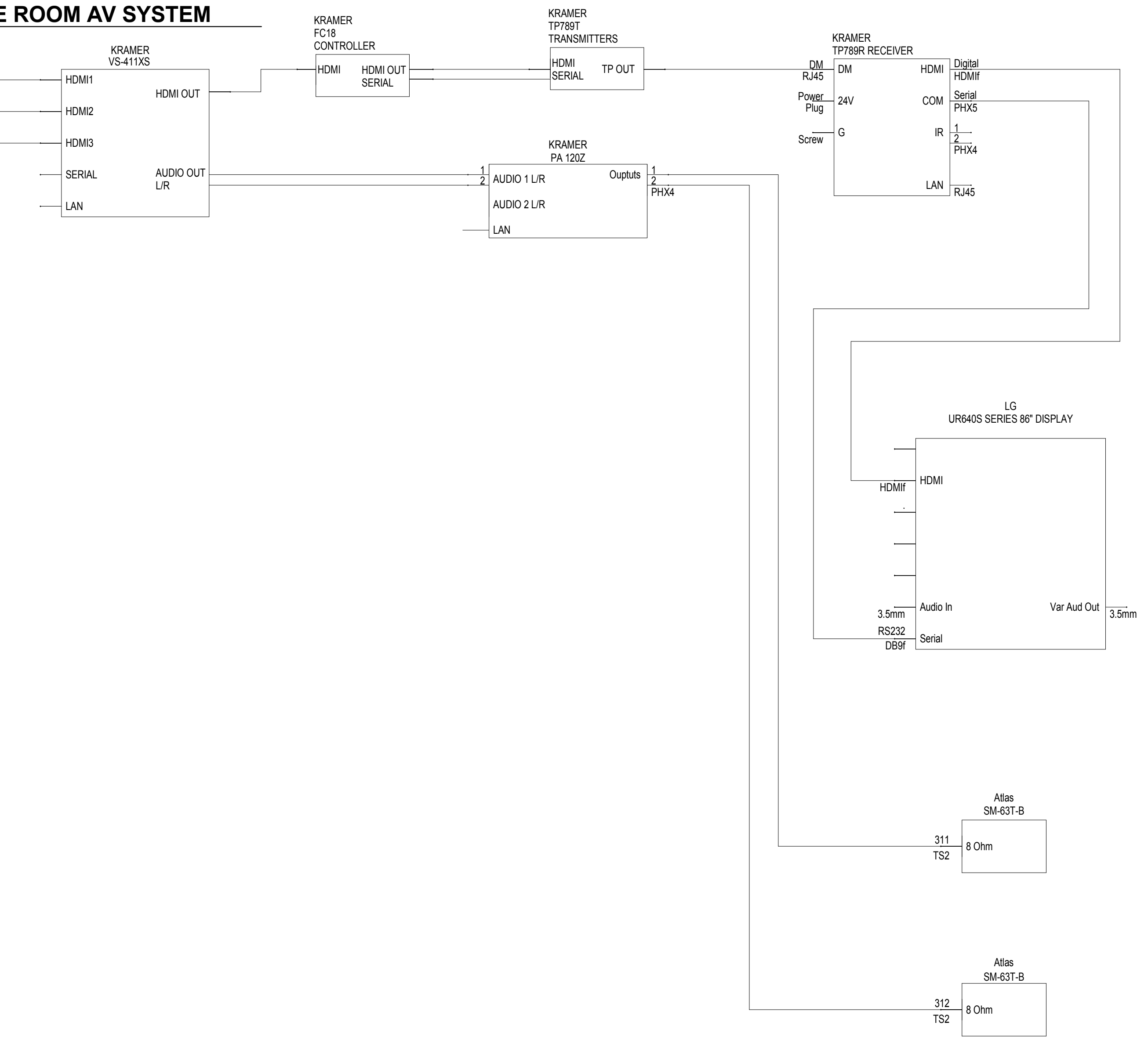
**1 CLASSROOM AV SYSTEM - SIM LAB**  
SCALE: 3" = 1'-0"



**2 EMS SIMULATOR 2-WAY COMMUNICATION SYSTEM**  
SCALE: 1/8" = 1'-0"

- DETAIL NOTES**
1. CEILING MOUNTED SPEAKER - VALCOM V-1010C
  2. CEILING MOUNTED PTZ CAMERA WITH 2-WAY AUDIO. AXIS M5526-E WITH AUDIO ADAPTOR.
  3. CEILING MOUNTED CONDENSER BOUNDARY MICROPHONE. SHURE XXXXX
  4. LOW VOLTAGE POWER CONNECTOR
  5. LINE AUDIO CONNECTOR
  6. AUDIO SPEAKER POWER SUPPLY. VALCOM VP624D WITH LOCAL POWER SUPPLY
  7. MICROPHONE PRE-AMPLIFIER AND PHATOM POWER. RDL RU-MLATZ WITH LOWER POWER SUPPLY.
  8. CAT 6 DATA CABLE/CONNECTION.
  9. USB CABLE/CONNECTION
  10. SCC S010 DATA DROP FOR CAMERA.
  11. DESK MOUNTED MICROPHONE WITH STAND. BLUE YETI 2070.
  12. OWNER FURNISHED PC.
  13. MIC LEVEL AUDIO CONNECTOR.

**3 CONFERENCE ROOM AV SYSTEM**  
SCALE: 3" = 1'-0"



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DRAWN BY: ABS  
CHECKED BY: JDK

REVISIONS	DATE	DESCRIPTION

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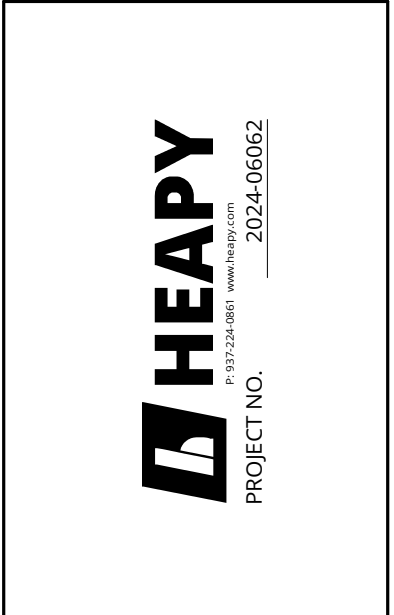
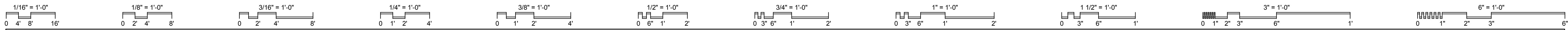
**AV SYSTEM DETAIL**

SCALE: As indicated

**T003**

JOB NO.: 24011

DATE: 01/20/2025



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 DRAWN BY: Author  
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DATE:				

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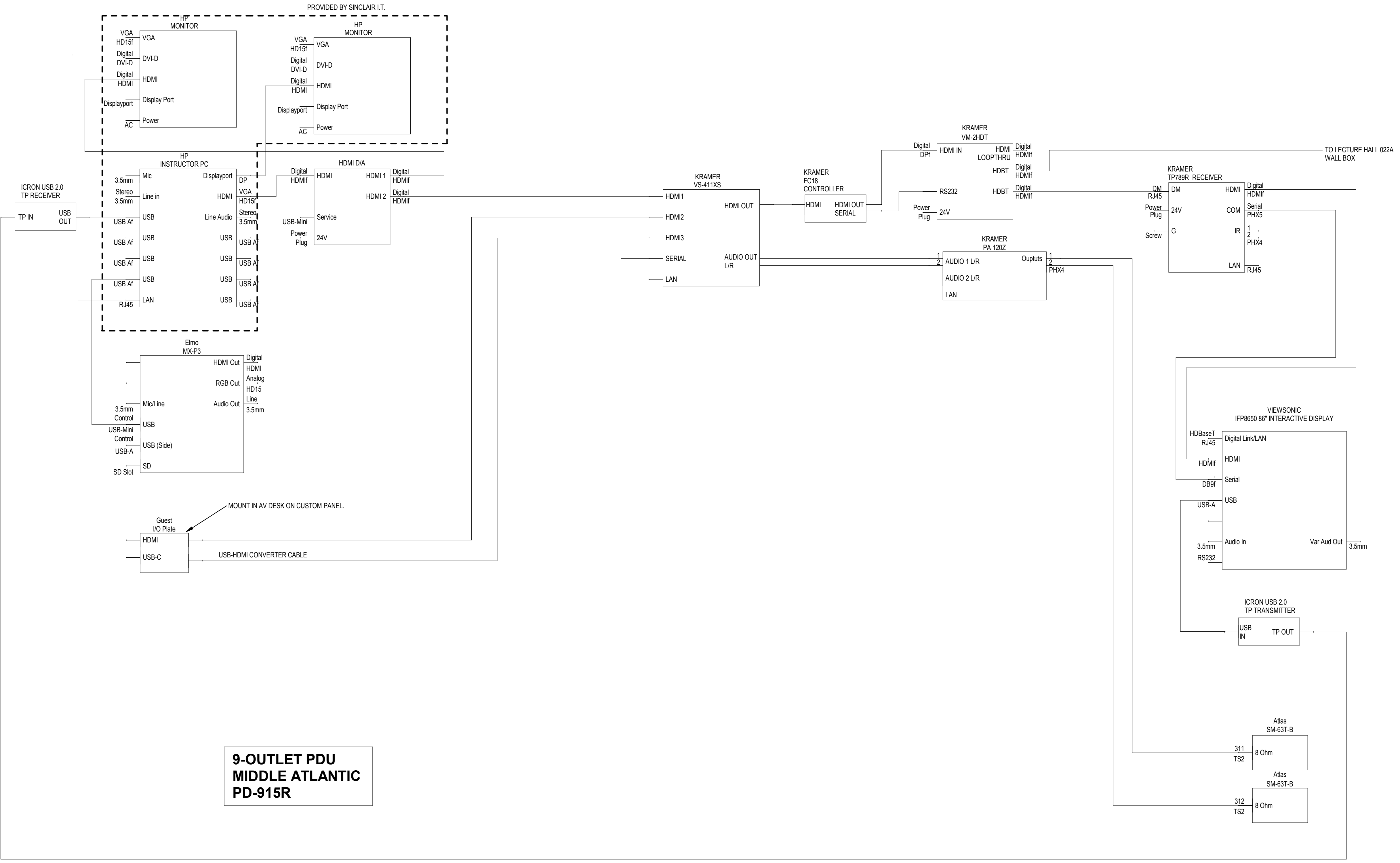
**AV SYSTEM DETAIL**

SCALE: 3" = 1'-0"

**T004**

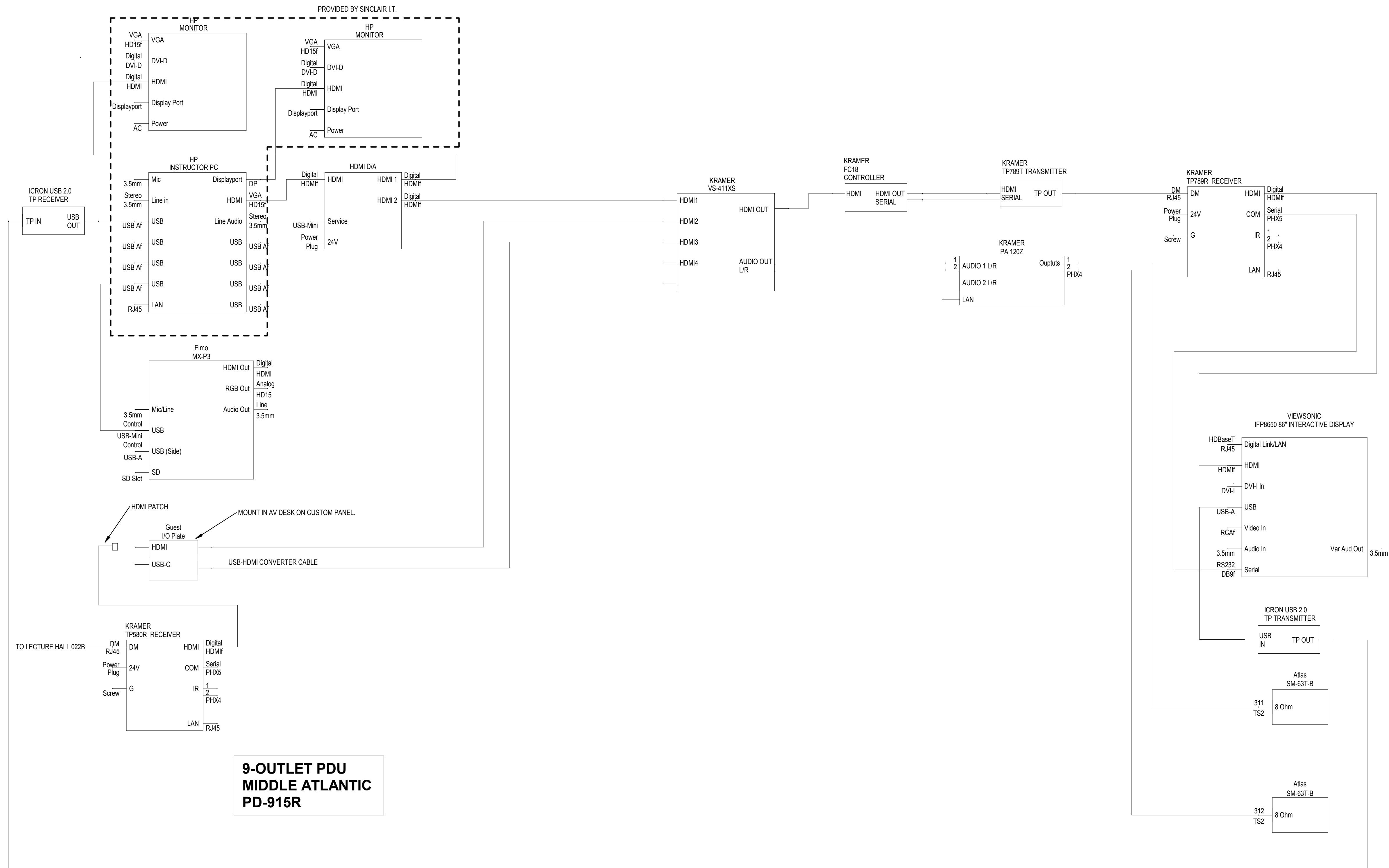
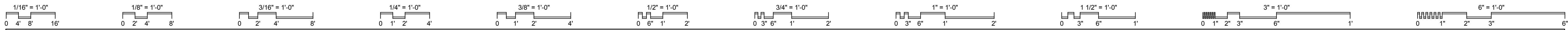
JOB NO.: 24011

DATE: 01/20/2025



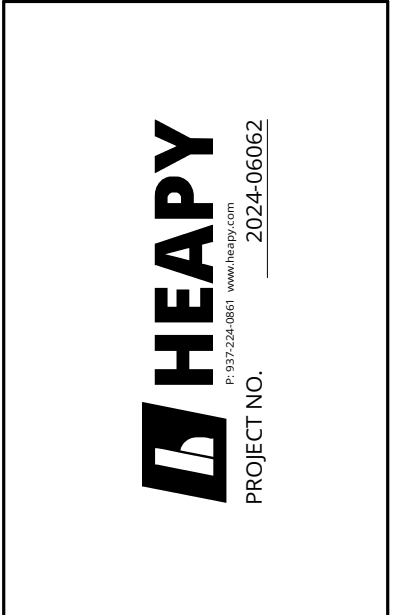
**1 CLASSROOM AV SYSTEM - LECTURE HALL 01**  
 SCALE: 3" = 1'-0"





**9-OUTLET PDU  
MIDDLE ATLANTIC  
PD-915R**

**1 CLASSROOM AV SYSTEM - LECTURE HALL 02**  
SCALE: 3" = 1'-0"



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DRAWN BY: Author  
CHECKED BY: Checker

DATE:				

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Sim Lab Bldg. 14**  
Sinclair College  
444 West 38th Street  
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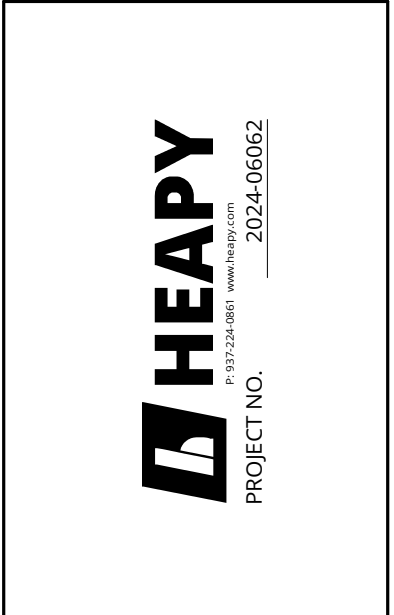
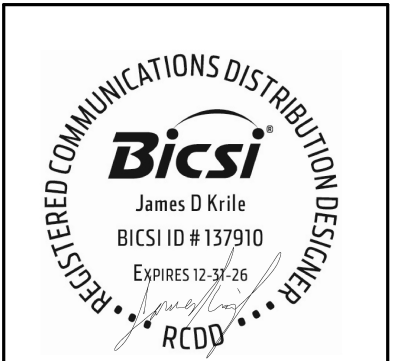
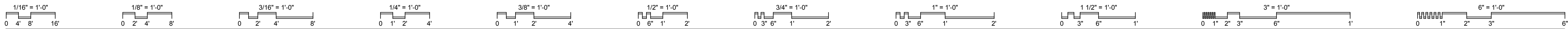
**AV SYSTEM DETAIL**

SCALE: 3" = 1'-0"

**T005**

JOB NO.: 24011

DATE: 01/20/2025



DESIGNED BY: Designer  
 DRAWN BY: Author  
 CHECKED BY: Checker

DATE:			
REVISIONS:			

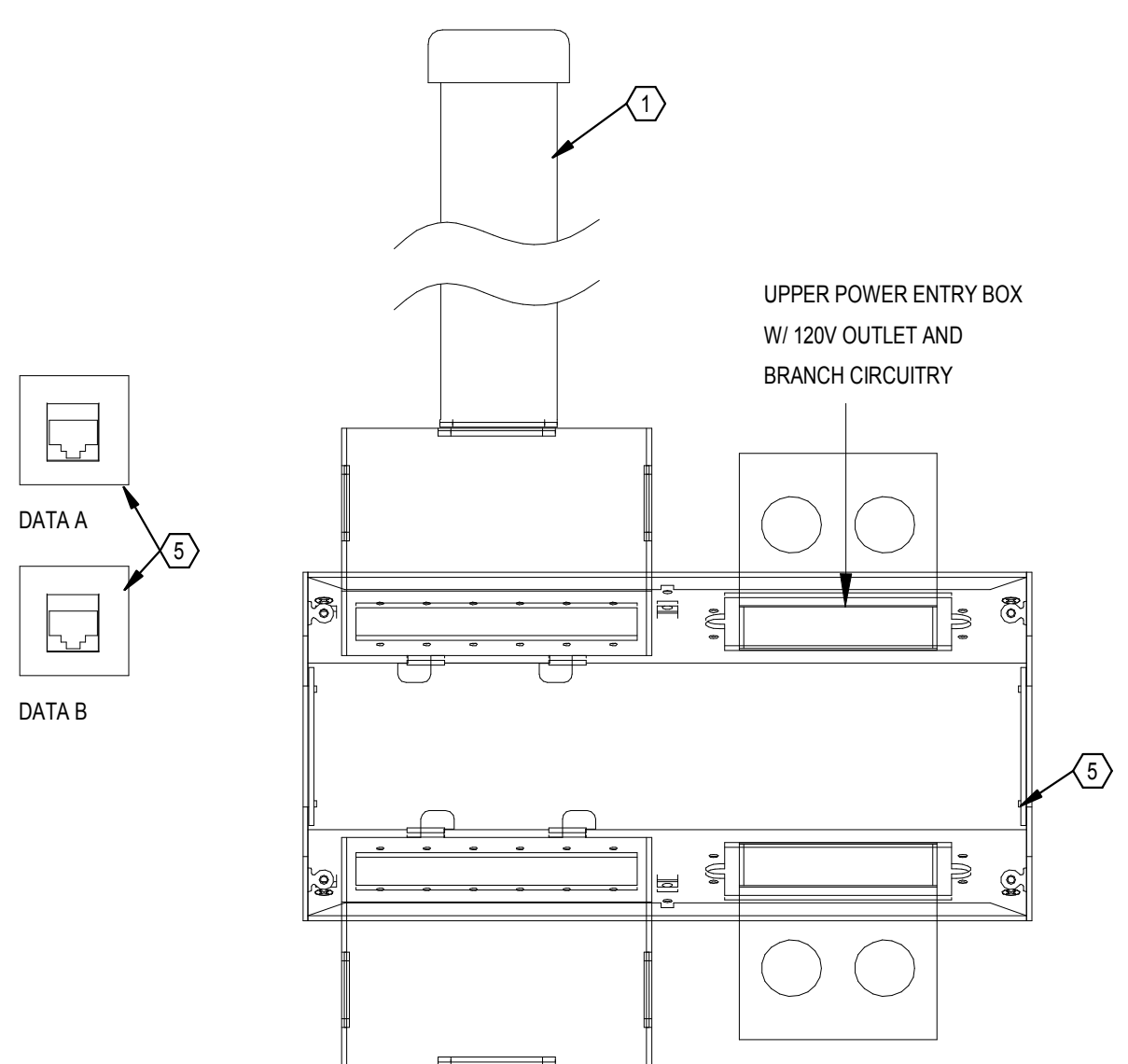
**EMS Classrooms & Sim Lab Bldg. 14**  
**Sinclair College**  
 444 West 3RD Street  
 Dayton, OH 45402

**AV OUTLET DETAILS**

SCALE: 1" = 10'-0"

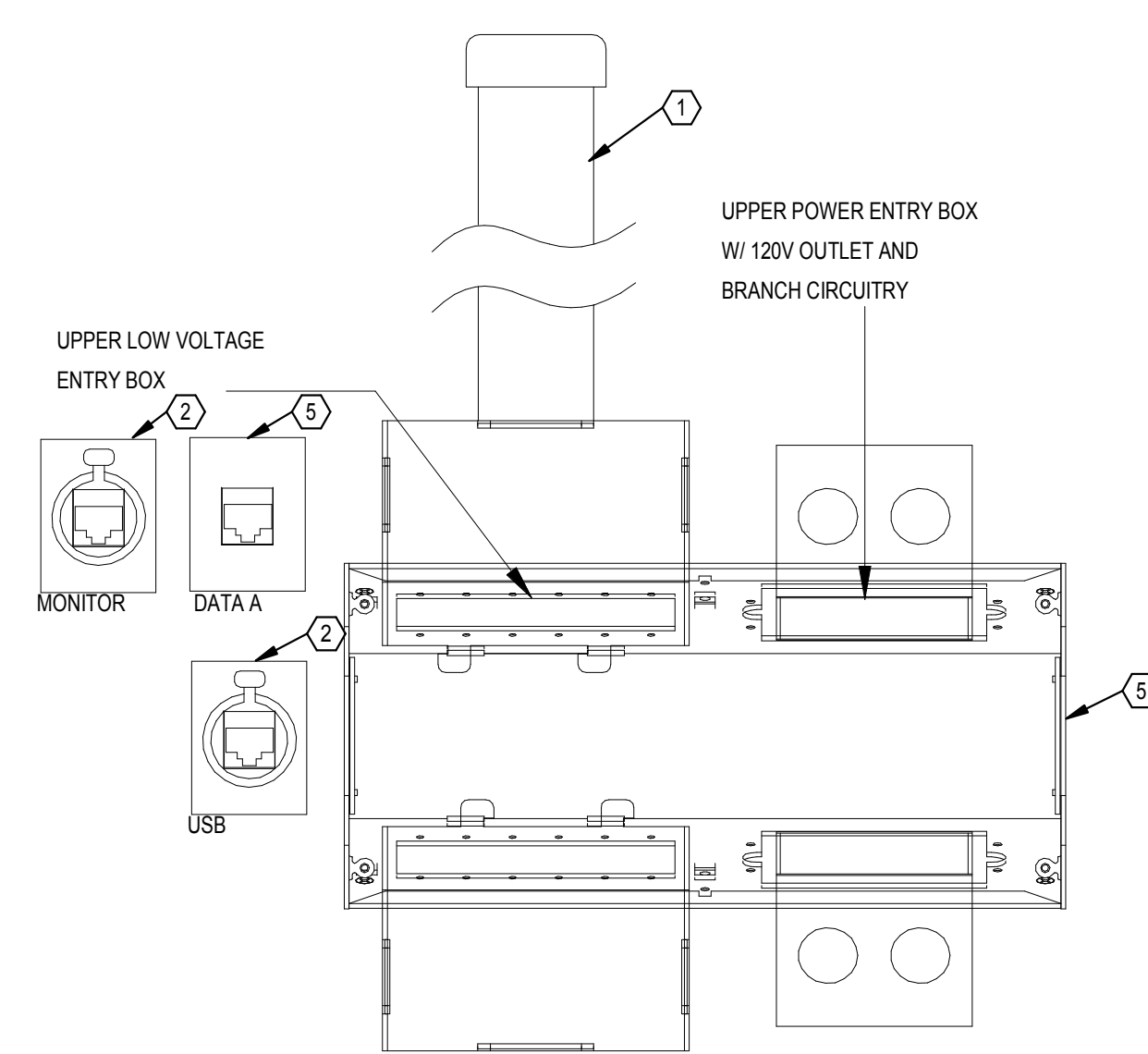
**T006**

JOB NO.: 24011  
 DATE: 01/20/2025



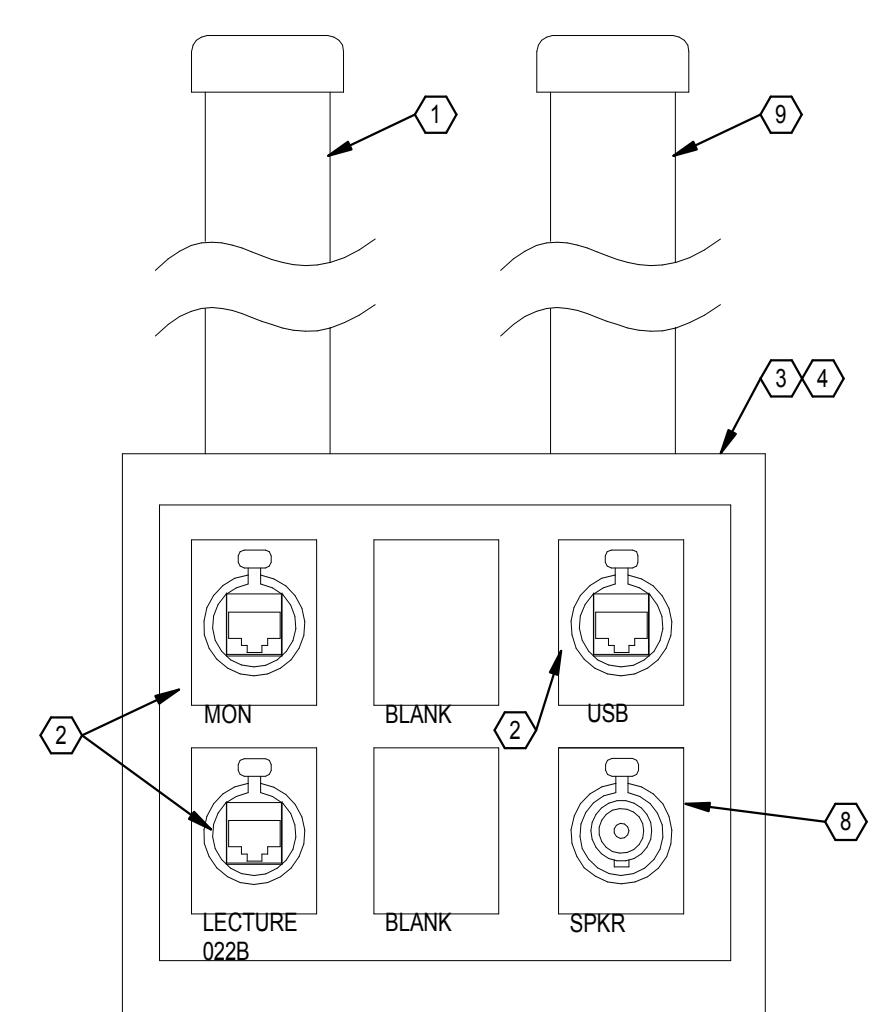
AV OUTLET TYPE A

PORT	CONNECTOR	CABLE	COLOR	APPLICATION
1	RJ45	CAT 6 UTP	---	SCC LAN
2	RJ45	CAT 6 UTP	---	SCC LAN
3				
4				



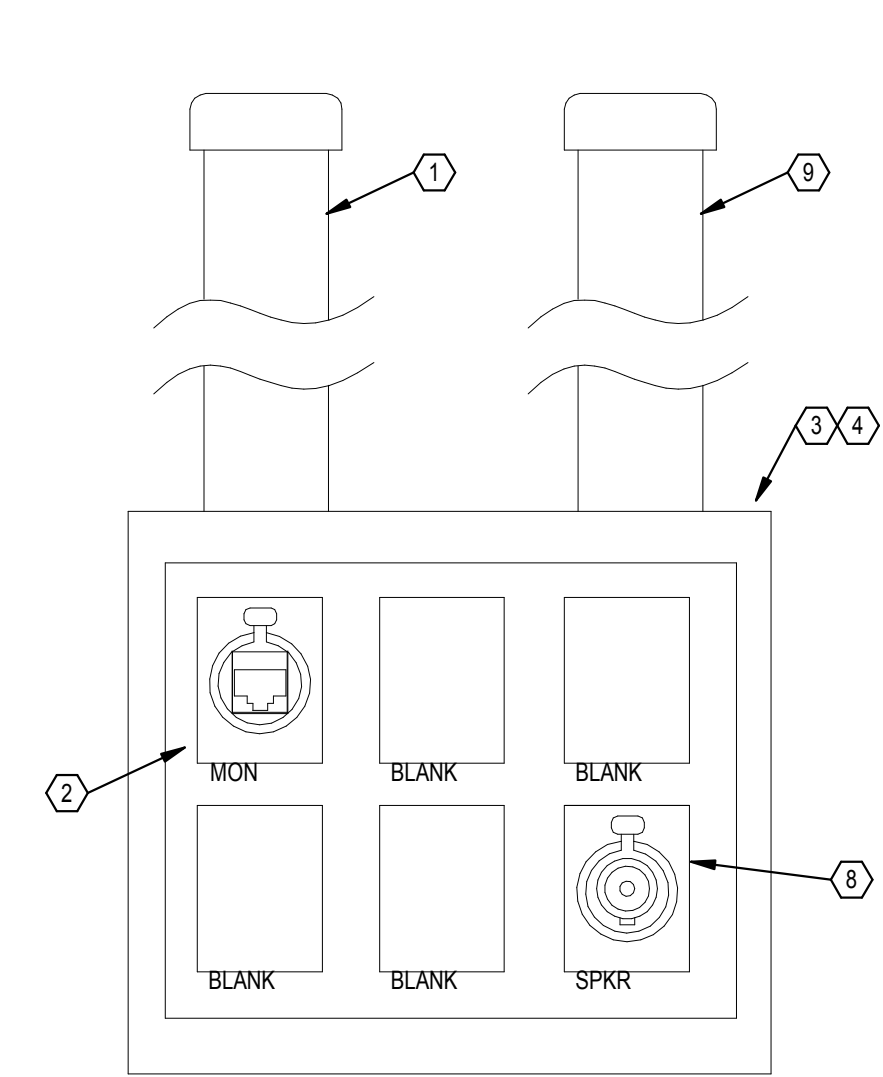
AV OUTLET TYPE B

PORT	CONNECTOR	CABLE	COLOR	APPLICATION
1	ETHERCON	CAT 6 UTP	---	HDBASET
2	RJ45	CAT 6 UTP	---	SCC LAN
3	ETHERCON	CAT 6 UTP	---	USB
4				



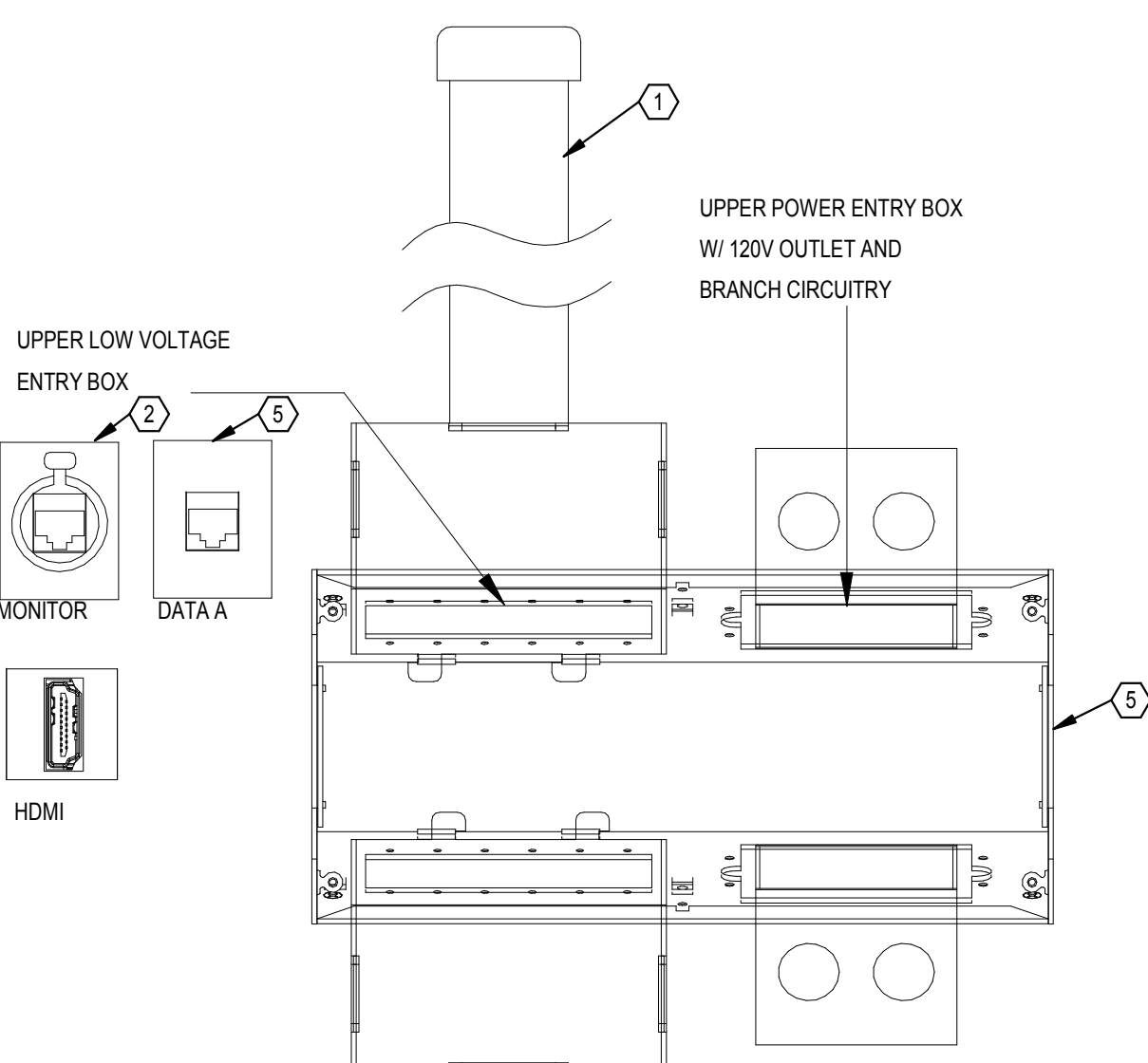
AV OUTLET TYPE C

PORT	CONNECTOR	COLOR	CABLE	COLOR	APPLICATION
1	ETHERCON		CAT 6 UTP	---	HDBASE T
2	ETHERCON		CAT 6 UTP	---	HDBASE T
3	ETHERCON		CAT 6 UTP	---	USB
4	SPEAKON-4P		#14 AWG	---	SPEAKER
5					
6					



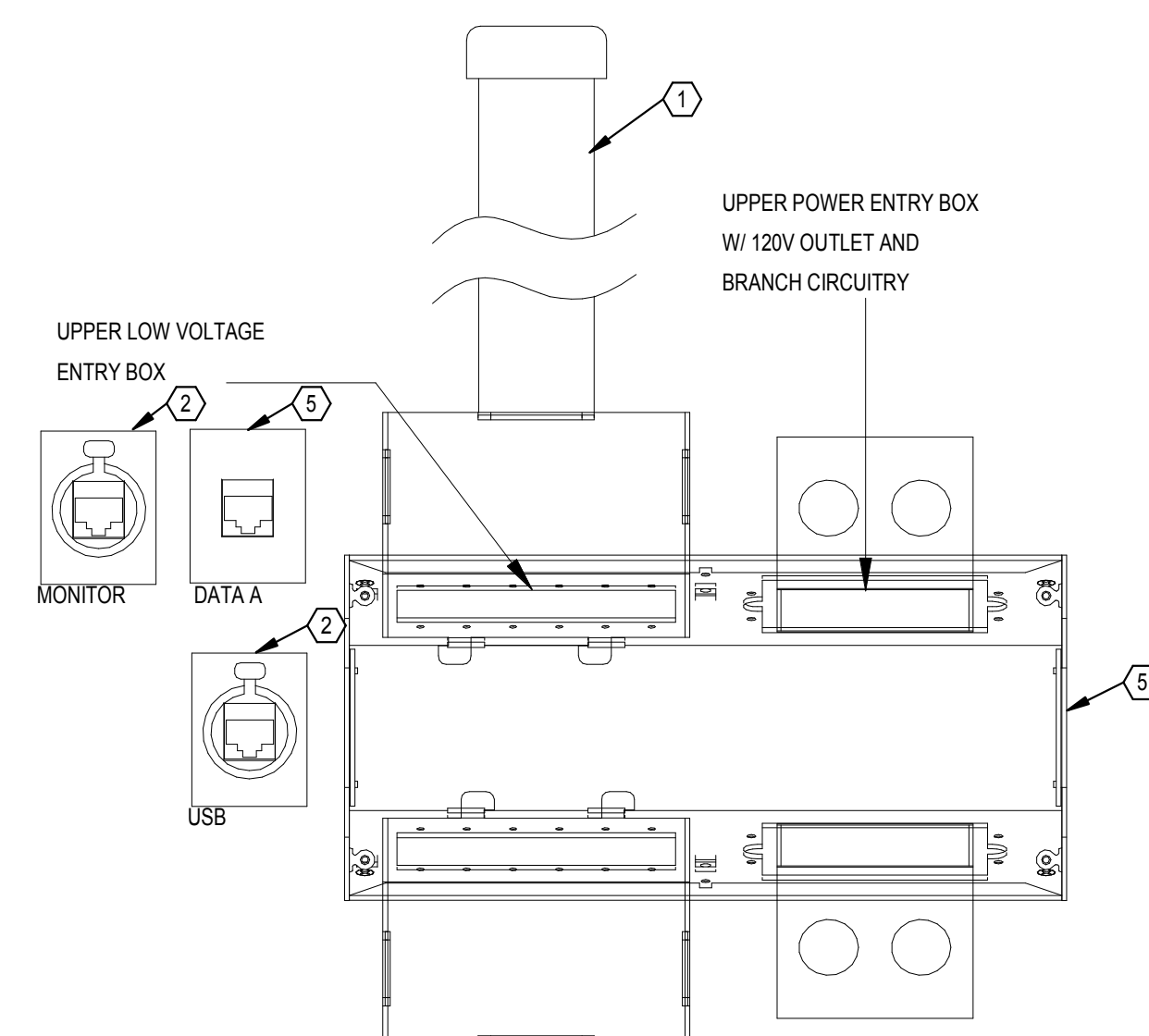
AV OUTLET TYPE D

PORT	CONNECTOR	CABLE	COLOR	APPLICATION
1	ETHERCON	CAT 6 UTP	---	HDBASE T
2				
3				
4	SPEAKON-4P	#14 AWG	---	SPEAKER
5				
6				



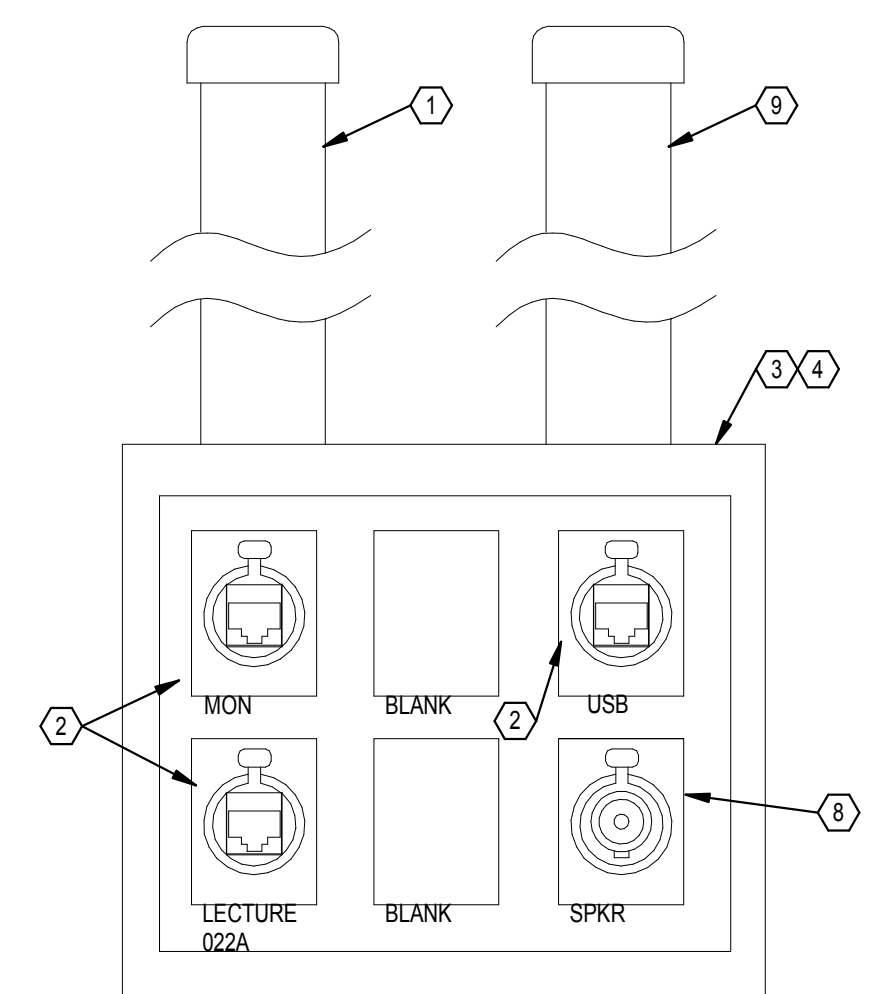
AV OUTLET TYPE E

PORT	CONNECTOR	CABLE	COLOR	APPLICATION
1	ETHERCON	CAT 6 UTP	---	HDBASET
2	RJ45	CAT 6 UTP	---	SCC LAN
3				
4				



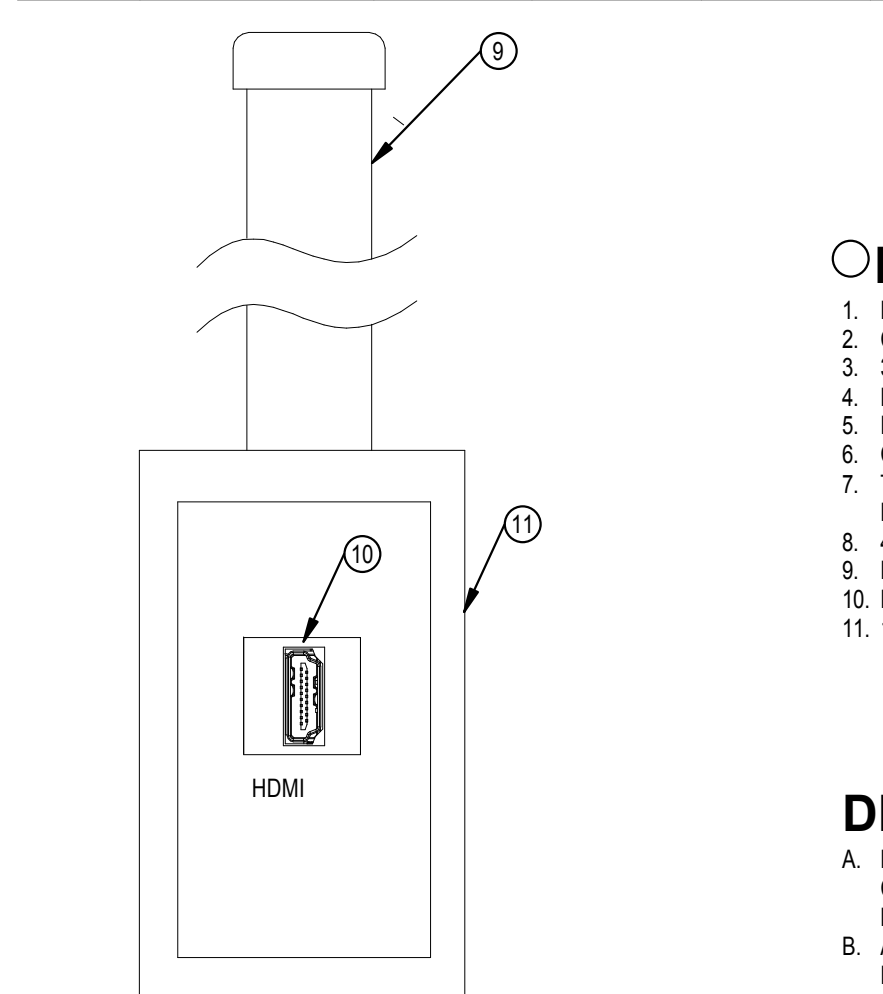
AV OUTLET TYPE F

PORT	CONNECTOR	CABLE	COLOR	APPLICATION
1	ETHERCON	CAT 6 UTP	---	HDBASET
2	RJ45	CAT 6 UTP	---	SCC LAN
3	ETHERCON	CAT 6 UTP	---	USB
4				



AV OUTLET TYPE G

PORT	CONNECTOR	CABLE	COLOR	APPLICATION
1	ETHERCON	CAT 6 UTP	---	HDBASE T
2	ETHERCON	CAT 6 UTP	---	HDBASE T
3	ETHERCON	CAT 6 UTP	---	USB
4	SPEAKON-4P	#14 AWG	---	SPEAKER
5				
6				



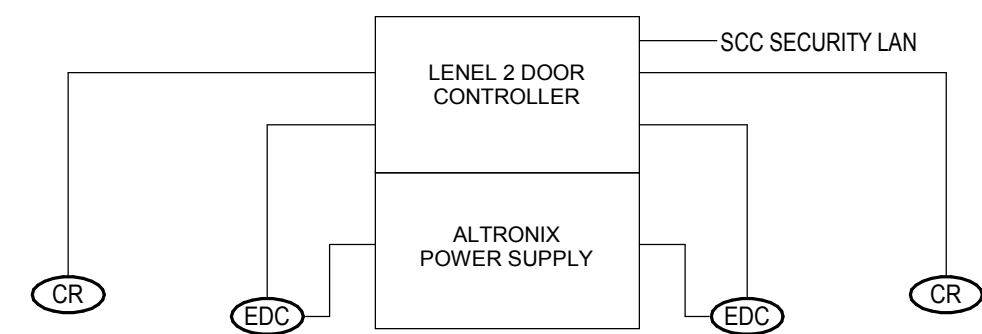
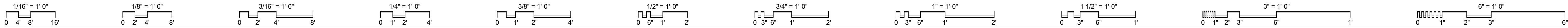
AV OUTLET TYPE H

PORT	CONNECTOR	CABLE	APPLICATION
1	ETHERCON	F/UTP	USB/TP
2	ETHERCON	F/UTP	HDBASET
3			
4			

- DETAIL NOTES**
- RECESSED 1.25" CONDUIT TO ABOVE ACCESSIBLE CEILING.
  - CATEGORY 6 F/UTP CABLE AND ETHERCON CONNECTOR.
  - 3-GANG BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING.
  - PROVIDE CUSTOM ENGRAVED FACEPLATE.
  - FSR PWB-100 WHITE WITH ALL REQUIRED DATA/AV INSERTS.
  - CATEGORY 6 CABLE AND JACK.
  - TYPE "F" COAX CONNECTOR WITH RG-6 BACK TO TR AND CATV DISTRIBUTION SPLITTER/TAP.
  - 4 POLE SPEAKON CONNECTOR AND #14AWG SPEAKER WIRING.
  - RECESSED 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.
  - HDMI CONNECTOR AND CABLING.
  - 1-GANG DEEP BOX WITH COVER.

- DETAIL GENERAL NOTES**
- DATA OUTLETS TO BE PROVIDED WITH NOMINAL 7' PATCH CORD FOR EACH JACK. FINAL CABLE LENGTHS/QUANTITIES TO BE COORDINATED WITH SCC.
  - AV OUTLETS TO BE PROVIDED WITH MATCHING PATCH CABLES FOR EACH PORT. LENGTH AS REQUIRED BY EQUIPMENT LOCATION. PROVIDE BLACK CABLE ORGANIZER FOR CABLE BUNDLE.

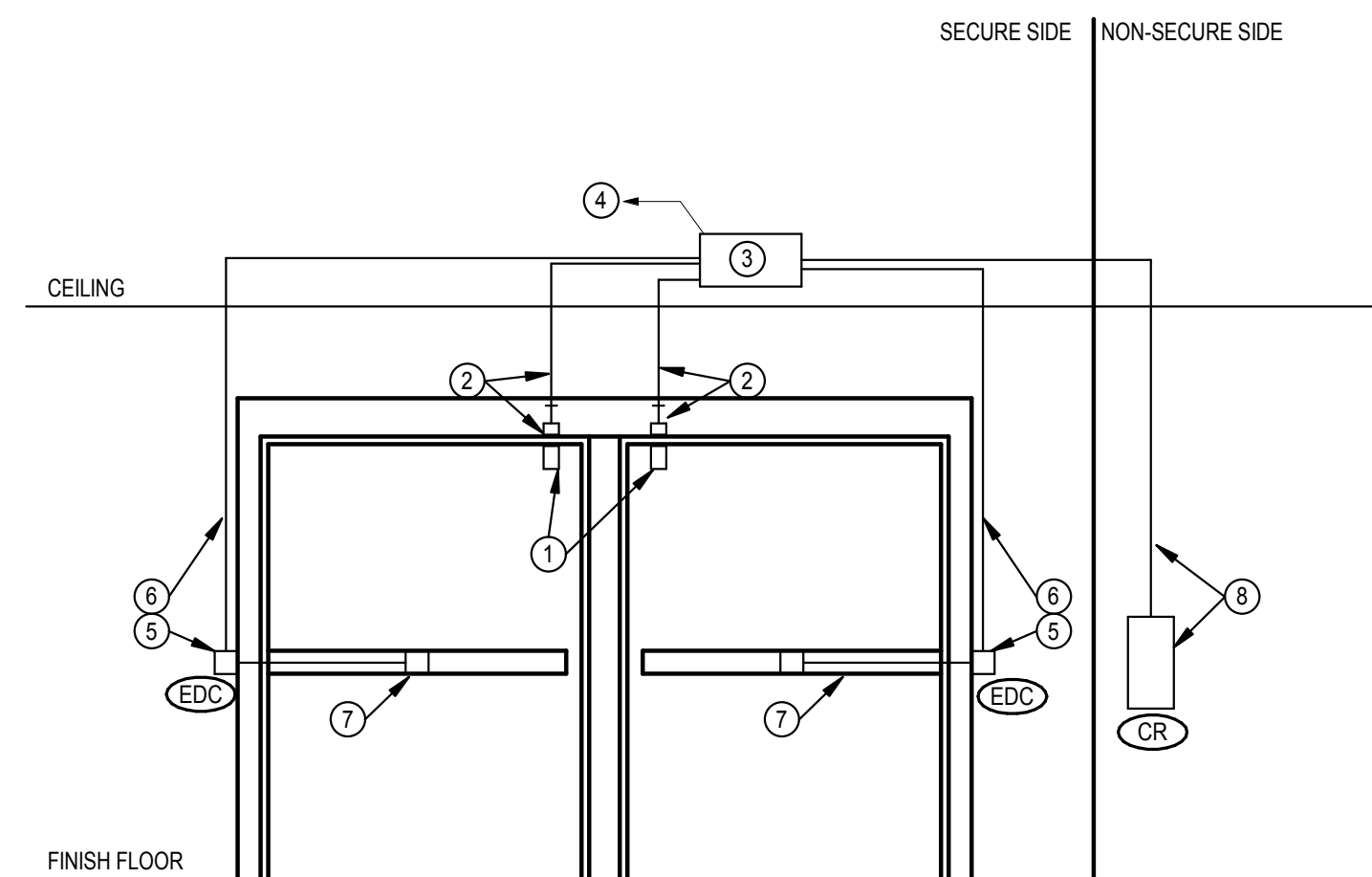
**1 AV OUTLET DETAILS**  
 SCALE: 1" = 10'-0"



**CONTROLLED CARD READER WITH HANDICAP INTERFACE**

NOTE: THIS DIAGRAM IS SCHEMATIC IN NATURE ONLY. IT IS INTENDED TO SHOW THE GENERAL CONFIGURATION OF THE SYSTEM. REFER TO THE DRAWINGS AND SPECIFICATION FOR THE EXACT WORK REQUIRED.

**1 ACCESS CONTROL DETAILS**



**2 SECURITY DOOR DETAIL**

**DETAIL NOTES**

- BALANCED MAGNETIC DOOR POSITION SWITCH, DPDT. PROVIDE 2PR-#22AWG SHIELDED FROM DOOR FRAME TO LOCAL SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR.
- PROVIDE 0.5" CONDUIT FROM DOOR FRAME TO COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR.
- COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR. (12"X12"X4" WITH SECURITY SCREW COVER)
- PROVIDE PLENUM COMPOSITE DOOR SECURITY WIRING (EQUAL TO BELDEN B658AF-J) FROM COMMON SECURITY JUNCTION BOX TO DOOR CONTROLLER. PROVIDE 24" TAIL IN JUNCTION BOX AND 5' TAIL AT BACKBOARD. CABLE TO BE PROPERLY SUPPORTED UTILIZING J-HOOKS.
- CONDUIT ROUGH-IN IN FRAME AND CONNECTION TO ELECTRIFIED HINGE.
- PROVIDE 0.75" CONDUIT FROM DOOR FRAME TO COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR.
- ELECTRIFIED PANIC WITH INTEGRAL REQUEST TO EXIT SENSOR IN THE HARDWARE.
- WALL MOUNTED CREDENTIAL READER, PROVIDE 1-GANG BOX AT 46" MH (UNLESS OTHERWISE NOTED) AND EXTEND 0.75" CONDUIT FROM BOX TO COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR.



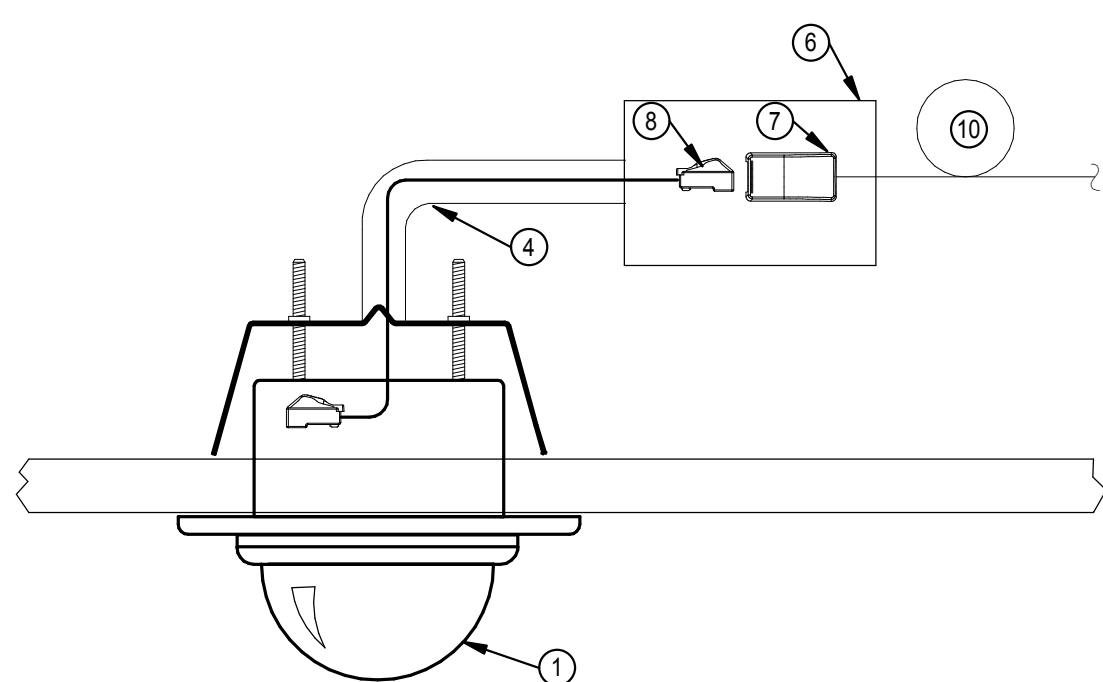
DESIGNED BY: Designer  
 DRAWN BY: Author  
 CHECKED BY: Checker

DATE:			

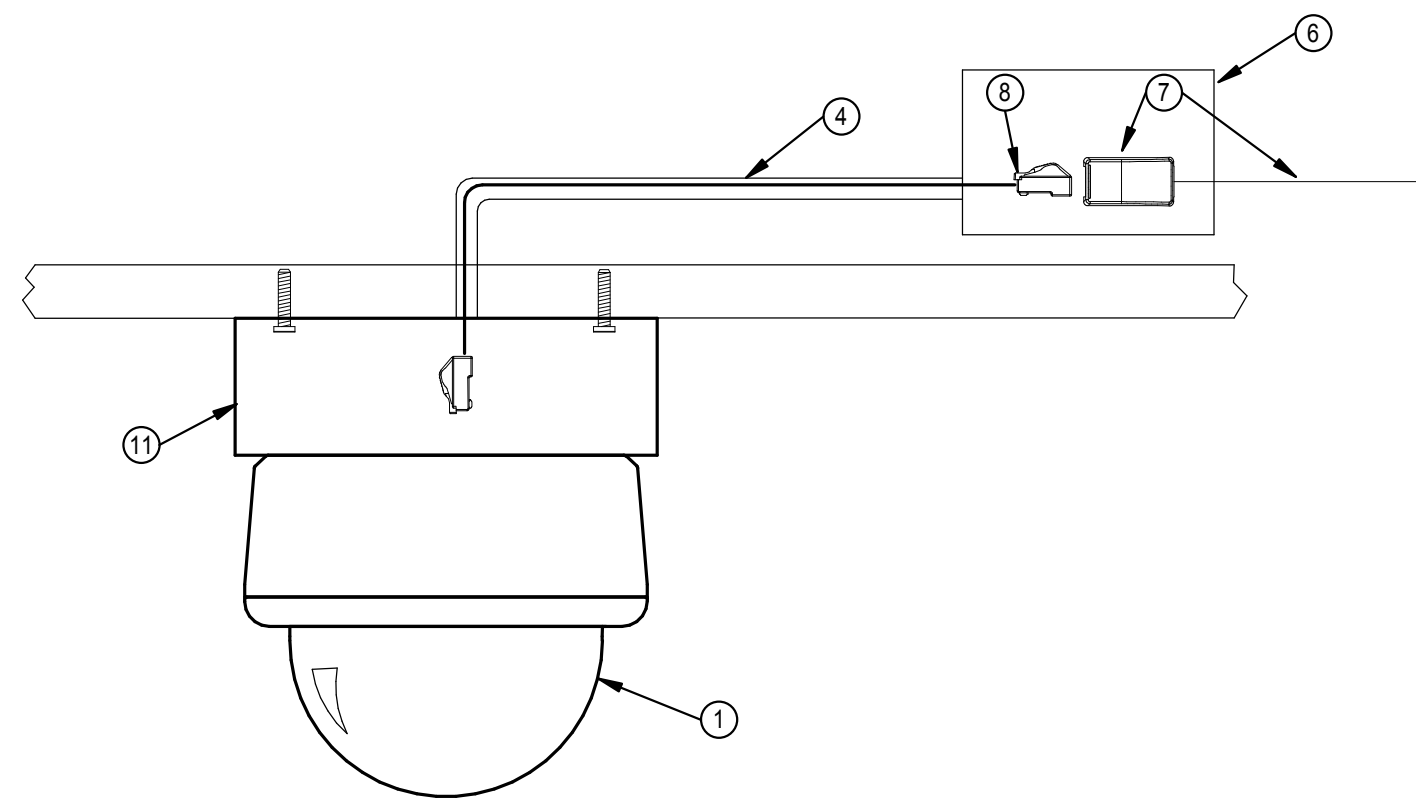
**EMS Classrooms & Sim Lab Bldg. 14**  
**Sinclair College**  
 444 West 380 Street  
 Dayton, OH 45402

EDC NUMBER		DOOR OPENING NUMBER		CONTROL		LOCKS				REQUEST TO EXIT				DOOR MONITOR				AUTOMATIC DOOR OPERATOR		SPECIAL DOOR NOTES		
				EAC	INTERFACE	POWER		TYPE		FUNCTION		LOCATION		POSITION SWITCH		L BOLT	BOND SENSOR	MOTOR	PUSHPLATE			
1	E0016B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2	E0016C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

NOTES:  
 1. ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 2. 1234567890  
 3. ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 4. 1234567890



**INTERIOR - CEILING RECESSED**



**INTERIOR - CEILING SURFACE**

**CAMERA MOUNTING DETAIL NOTES**

- CAMERA AS SHOWN ON THE PLANS. REFER TO CAMERA SCHEDULE FOR SPECIFICATIONS.
- WALL MOUNTED PENDANT ARM FOR CAMERA. COORDINATE EXACT MOUNTING HEIGHT IN FIELD.
- 1-GANG BOX, SEALED FOR MOUNTING OF CAMERA.
- 0.75" CONDUIT TO BE ROUTED TO ACCESSIBLE INTERIOR JUNCTION BOX.
- 24" WIRING TAIL TAGGED AND COILED IN JUNCTION BOX.
- JUNCTION BOX ABOVE ACCESSIBLE CEILING.
- 1-DATA OUTLET UTILIZING SURFACE MOUNT "BISCUIT" FOR TERMINATION OF DATA DROP INTO RJ-45 OUTLET.
- PROVIDE PATCH CABLE WITH CONNECTIONS.
- ADDITIONAL 24V LOW VOLTAGE POWER WIRING (2-#14AWG) BACK TO LOCAL TRIMER FOR EXTERIOR CAMERAS.
- 20' COIL OF CABLE MANAGED ABOVE CEILING.
- SURFACE CEILING MOUNTED JUNCTION BOX FOR CAMERA.

**3 CCTV SYSTEM - CAMERA MOUNTING DETAILS**  
 SCALE: 1/8" = 1'-0"

CAMERA SCHEDULE																						
NOTES: 1. AXIS M5526-E FOR INSTRUCTIONAL USE. CAMERA NOT 2. AXIS M3086-V4MP WITH MILESTONE LICENSE AND INCLUDED IN MILESTONE SERVER. PROGRAMMING FOR THE MILESTONE VMS.																						
OPTIONS... W - WIDE DYNAMIC RANGE; L - LOW LIGHT; D - DAY/NIGHT																						
MARK	LOCATION	ROOM NAME	LENS (mm)	RESOLUTION (MP)	CAMERA TYPE						ANALYTICS		POWER		CABLE		TYPE AND MOUNTING					
					STANDARD 4:3	STANDARD 16:9	PANORAMIC 180°	PANORAMIC 360°	NO. IMAGERS	PTZ	IP	CAM	SERV	POE	24V	120V	UTP	FIBER	COAX	CLG RECESSED	CLG SURFACE	INDOOR
1	AMBULANCE SIMULATOR	10X	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
2	AMBULANCE SIMULATOR	10X	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
3	CIRCULATION	3.1	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2
4		3.1	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2
5	EMS/PARAMEDIC STUDIO	3.1	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2

**SECURITY DETAILS**

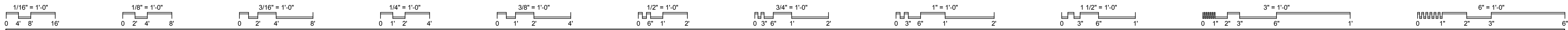
SCALE: As indicated

**T007**

JOB NO.: 24011

DATE: 01/20/2025





**3 SIMULATION LAB WALL ELEVATION**

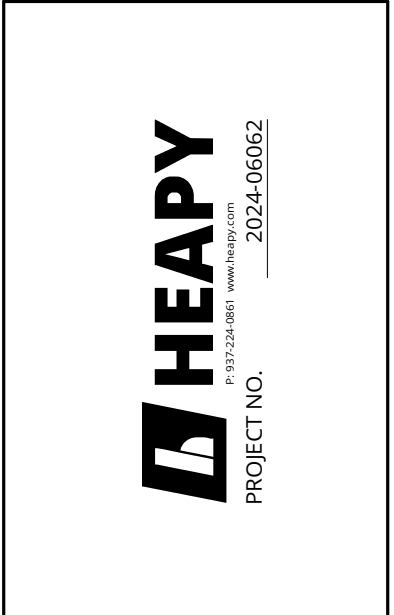
SCALE: 1/4" = 1'-0"

**2 LECTURE HALL WALL ELEVATION**

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

**PLAN NOTES**

1. EXISTING LEVEL GUARD DOOR CONTROLLER PANEL TUB. PROVIDE NEW LNL-1320 2 DOOR CONTROLLER BOARD WITH MAGNETIC STANDOFF BRACKET.
2. CEILING MOUNTED IP CAMERA WITH DATA DROP TO BE PLACED IN THE CEILING OF THE AMBULANCE SIMULATOR IN COORDINATION WITH OWNER REQUIREMENTS PROVIDE AXIS M526-E CAMERA PROVIDE OPTIONAL AUDIO CONNECTOR ASSEMBLY FOR CONNECTION TO 2-WAY OVERHEAD COMMUNICATION SYSTEM.
3. CEILING MOUNTED MICROPHONE FOR 2-WAY COMMUNICATION SYSTEM.
4. CEILING MOUNTED SPEAKER FOR 2-WAY COMMUNICATION SYSTEM.
5. WALL MOUNTED JUNCTION BOX WITH GROMMETED COVER, 2-GANG BOX, 1" CONDUIT TO ABOVE CEILING.
6. UTILIZE EXISTING CONDUIT RISERS FOR NEW DATA CABLING.
7. PROVIDE NEW ALTRONIX 8-DOOR, 24V POWER SUPPLY. CONNECT TO EXISTING LINE VOLTAGE IN EXISTING POWER SUPPLY ABOVE.
8. PROVIDE NEW 4" CONDUIT SLEEVE UP (THROUGH EXISTING CORE) FOR NEW CABLING.



DESIGNED BY: JEM  
 DRAWN BY: ABS  
 CHECKED BY: JDK

DATE:	

**EMS Classrooms & Sim Lab Bldg. 14**  
 Sinclair College  
 444 West 3RD Street  
 Dayton, OH 45402

**LOWER LEVEL  
 FLOOR PLAN - NEW  
 WORK**

SCALE: As indicated

**T101**

JOB NO.: 24011

DATE: 01/20/2025

**1 TECHNOLOGY LOWER LEVEL**

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

