

MULTIPURPOSE BUILDING RENOVATION

MISSOURI DEPARTMENT OF AGRICULTURE

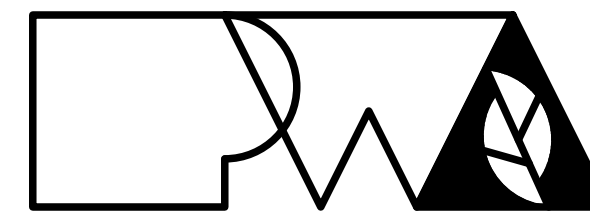


NEW MADRID, MISSOURI

OWNER: STATE OF MISSOURI
 MIKE L. PARSON, GOVERNOR
 MISSOURI AGRICULTURE DEPARTMENT

DESIGNER: PWArchitects, Inc.
PROJECT NUMBER: O2233-01
SITE NUMBER: 7711
ASSET NUMBER: 8877711007

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION,
 DIVISION OF FACILITIES MANAGEMENT,
 DESIGN & CONSTRUCTION

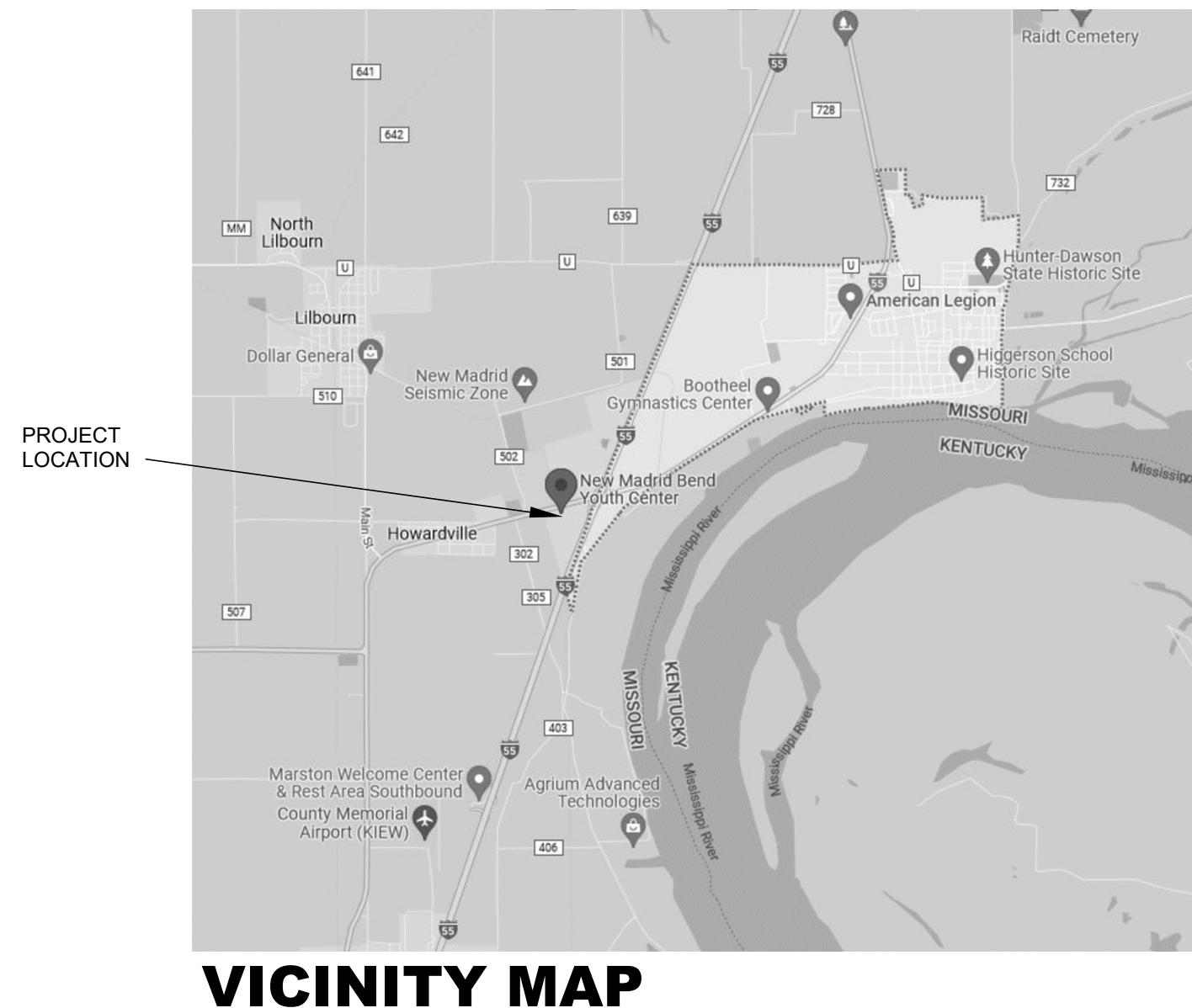


Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
 2120 Forum Blvd., Ste. 101
 Columbia, Missouri 65203
 PWArchitects.com | 573.449.2683

INDEX OF DRAWINGS

NO. SHEET SHEET TITLE

GENERAL	
1	G-001 COVER SHEET, INDEX OF DRAWINGS & LOCATION MAP
2	G-002 LIFE SAFETY PLAN & CODE ANALYSIS
CIVIL	
3	CE0 COVER SHEET
4	CE1 SITE / UTILITY PLAN
5	CE2 DETAILS
ARCHITECTURAL	
6	A-001 SYMBOLS, ABBREVIATIONS & NOTES
7	D-101 DEMOLITION PLANS
8	D-102 DEMOLITION REFLECTED CEILING PLANS
9	D-201 DEMOLITION ELEVATIONS
10	A-101 FLOOR PLAN
11	A-102 REFLECTED CEILING PLAN
12	A-103 ROOF PLAN
13	A-201 EXTERIOR ELEVATION
14	A-202 INTERIOR ELEVATIONS, FINISH SCHEDULE AND DETAILS
15	A-601 DOOR & WINDOW SCHEDULES & DETAILS
MEP	
16	M-101 HVAC PLAN
17	M-501 HVAC DETAILS & SCHEDULES
18	E-101 POWER PLAN
19	E-102 LIGHTING PLAN
20	E-501 ELECTRICAL DETAILS & SCHEDULES
21	P-101 SANITARY SEWER PLAN
22	P-102 WATER PLAN
23	P-501 PLUMBING DETAILS & SCHEDULES



COVER SHEET,
 INDEX OF
 DRAWINGS &
 LOCATION MAP

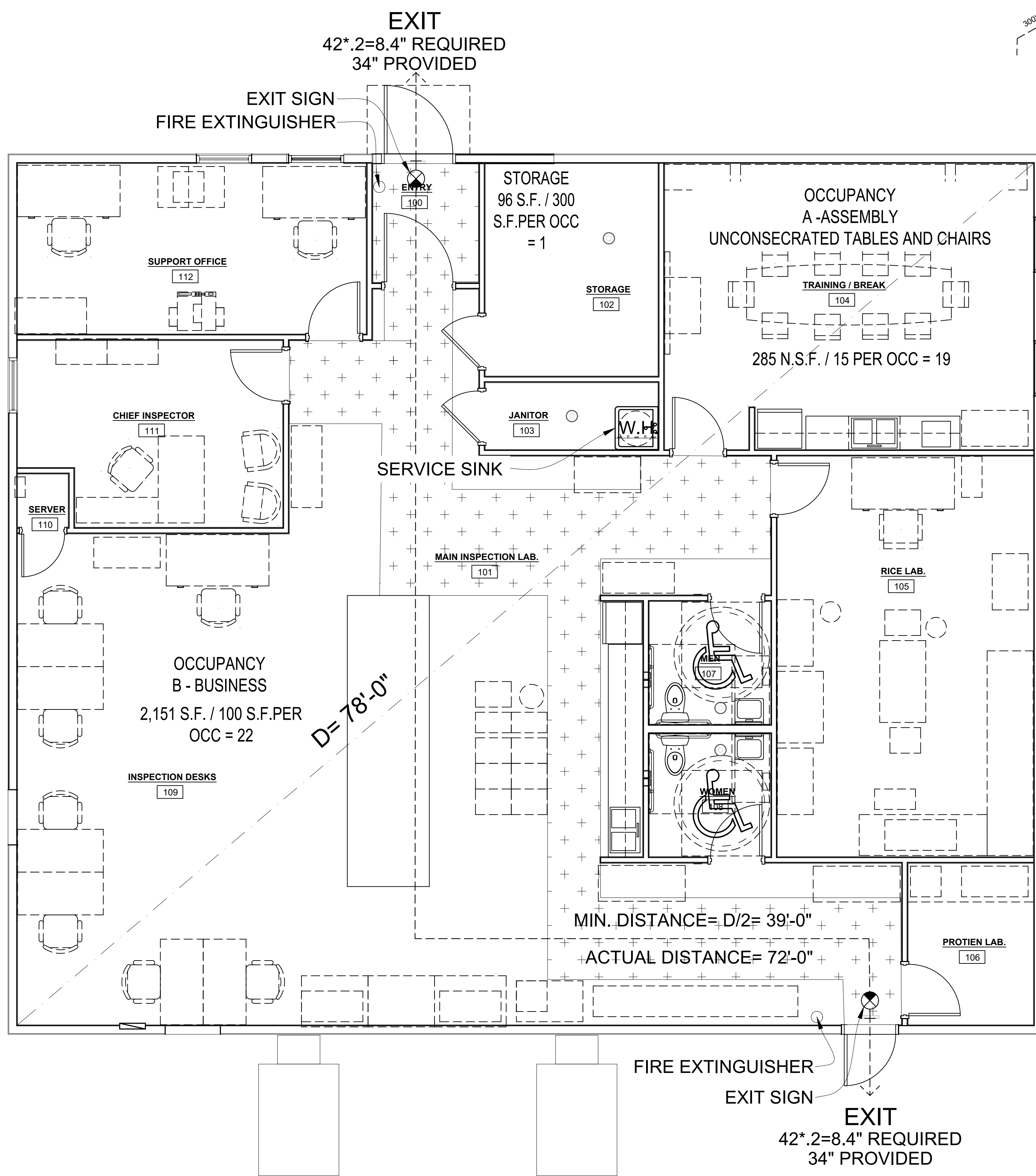
G-001

01 OF 23 SHEETS

M
L
K
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G
F
E
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B
A

LEGEND: LIFE SAFETY PLAN

- 1 HR FIRE BARRIER
- FEC FIRE EXTINGUISHER CABINET (EXISTING &/OR RELOCATED EXISTING)
- FE FIRE EXTINGUISHER ON WALL-HUNG BRACKET (EXISTING)
- EXIT SIGNAGE
- F.D.C. FIRE DEPARTMENT CONNECTION
- 00 EGRESS CAPACITY REQUIRED
- (xx') EGRESS WIDTH PROVIDED (IN INCHES)
- ▼ EGRESS DIRECTION
- 300' TRAVEL DISTANCE



CODE ANALYSIS SUMMARY

PROJECT INFORMATION:
 NEW MADRID COUNTY FAMILY SERVICES SITE
 7960 US-61, NEW MADRID, MO 63869
 NEW MADRID COUNTY

MISSOURI DEPARTMENT OF AGRICULTURE OFFICE BUILDING (RENOVATION)
 JURISDICTION: MISSOURI OFFICE OF ADMINISTRATION - FACILITIES MANAGEMENT, DESIGN & CONSTRUCTION
 MISSOURI DEPARTMENT OF AGRICULTURE
 FIRE DEPARTMENT: NEW MADRID FIRE DEPARTMENT

INTERNATIONAL BUILDING CODE (IBC)
BUILDING INFORMATION

- MAIN OCCUPANCY TYPE (304.1): **B (BUSINESS)**
- ADDITIONAL (MIXED) OCCUPANCIES (CHAPTER 3): **A (ASSEMBLY)**
- CONSTRUCTION TYPE (TABLE 601): **III-B**
- BASIC ALLOWABLE AREA (TABLE 506.2): 19,000 S.F.
- BASIC ALLOWABLE HEIGHT (TABLE 504.3 & 504.4): **3-STORIES / 55'-0"**
- ACTUAL (GROSS) BUILDING AREA: **3,097 S.F.**
- ACTUAL HEIGHT: **1-STORY / 18'-4"**

EGRESS

- REQUIRED EXITS PER STORY (TABLE 1006.3.1): **2**
- EXITS PROVIDED IN DESIGN: **2**
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2): **B**
- DEAD END CORRIDOR LENGTH (SECTION 1020.4): **300 FEET NOT TO EXCEED 20 FEET**

BUILDING ELEMENTS FIRE-RESISTANCE RATING REQUIREMENTS (TABLE 601)

- PRIMARY STRUCTURAL FRAME: 0-HOURS
- INTERIOR BEARING WALLS: 0-HOURS
- EXTERIOR BEARING WALLS: 0-HOURS
- FLOOR CONSTRUCTION: 0-HOURS
- ROOF CONSTRUCTION: 0-HOURS
- NON-BEARING WALLS & PARTITIONS: 0-HOURS
- EXTERIOR: 0-HOURS
- INTERIOR: 0-HOURS

BUILDING OCCUPANCY LOAD (TABLE 1004.1.2)

ROOM:	OCC. PER S.F.	AREA	OCC. PER RM.
OFFICE AREA	1/100 G.S.F.	2,151 S.F.	22 OCCUPANTS
ASSEMBLY UNC. TABLES AND CHAIRS	1/15 N.S.F.	285 S.F.	19 OCCUPANTS
MECH. RM.	1/300 S.F.	96 S.F.	1 OCCUPANT
TOTAL:			42 OCCUPANTS

PLUMBING FIXTURES OCCUPANCY B

FIXTURE COUNTS (42 OCC.)	TOTAL REQ.	TOTAL PROVIDED
WATER CLOSETS: 1/25 OCC = 2	2	2
LAVATORIES: 1/40 OCC = 2	2	2
SHOWERS: -	-	0
OTHER - SERVICE SINK: - (exception e)	1	1

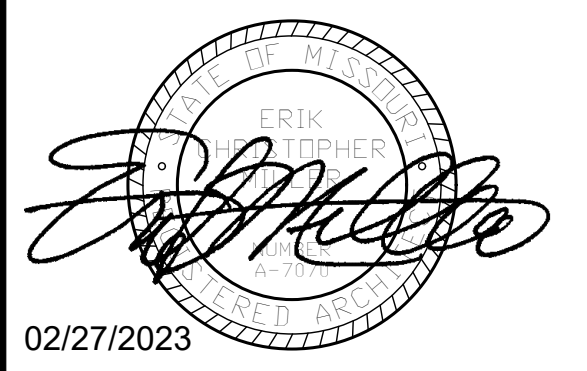
CODES OF RECORD:

- IBC EDITION: 2018
- IPC EDITION: 2018
- IMC EDITION: 2018
- NEC EDITION: 2017
- IFGC EDITION: 2018
- NFPA 101 EDITION: 2015
- IECC EDITION: 2018
- ADA EDITION: 2010
- ABA EDITION: 2015

EGRESS WIDTH REQ'D (TABLE 7.3.3.1): 42 OCCUPANTS x 0.2"/OCC. = 8.4"
 AVAILABLE EGRESS WIDTH: 68"
 MIN. CORRIDOR WIDTH: 84"
 MAX. COMMON PATH OF TRAVEL (SECT. 38.2.5.3.1): 100 FEET
 MAX. DEAD-END CORRIDORS (SECTION 38.2.5.2.1): 20 FEET
 MAX. TRAVEL DISTANCE (SECTION 38.2.6.1): 200 FEET

FIRE ALARM SYSTEM: PER NFPA 70, 72 & UFC 3-600-01
 PORTABLE EXTINGUISHING EQUIP. PER NFPA

STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



**OFFICE OF ADMINISTRATION
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 CONSTRUCTION**

O2233-01 -
 MULTIPURPOSE
 BUILDING for MDA USE
 NEW MADRID STATE
 OFFICE BUILDING
 NEW MADRID, MISSOURI

PROJECT # O2233-01
 SITE # 7711
 ASSET # 8877711007

REVISION: _____
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 REVISION: _____
 DATE: _____
 ISSUE DATE: 02/27/2023

CAD DWG FILE: _____
 DRAWN BY: LC
 CHECKED BY: EM
 DESIGNED BY: EM

SHEET TITLE:
**LIFE SAFETY
 PLAN & CODE
 ANALYSIS**

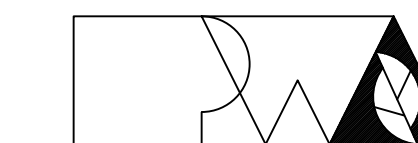
SHEET NUMBER:

G-002

2 OF 23 SHEETS
 02/27/2023



02/27/2023
TIMOTHY D. CROCKETT
MO LICENSE 200400075
PROFESSIONAL SEAL



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Peckham & Wright Architects, an Architectural Corporation
Missouri State Certificate of Authority No. 000244

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Crockett Engineering Consultants, LLC
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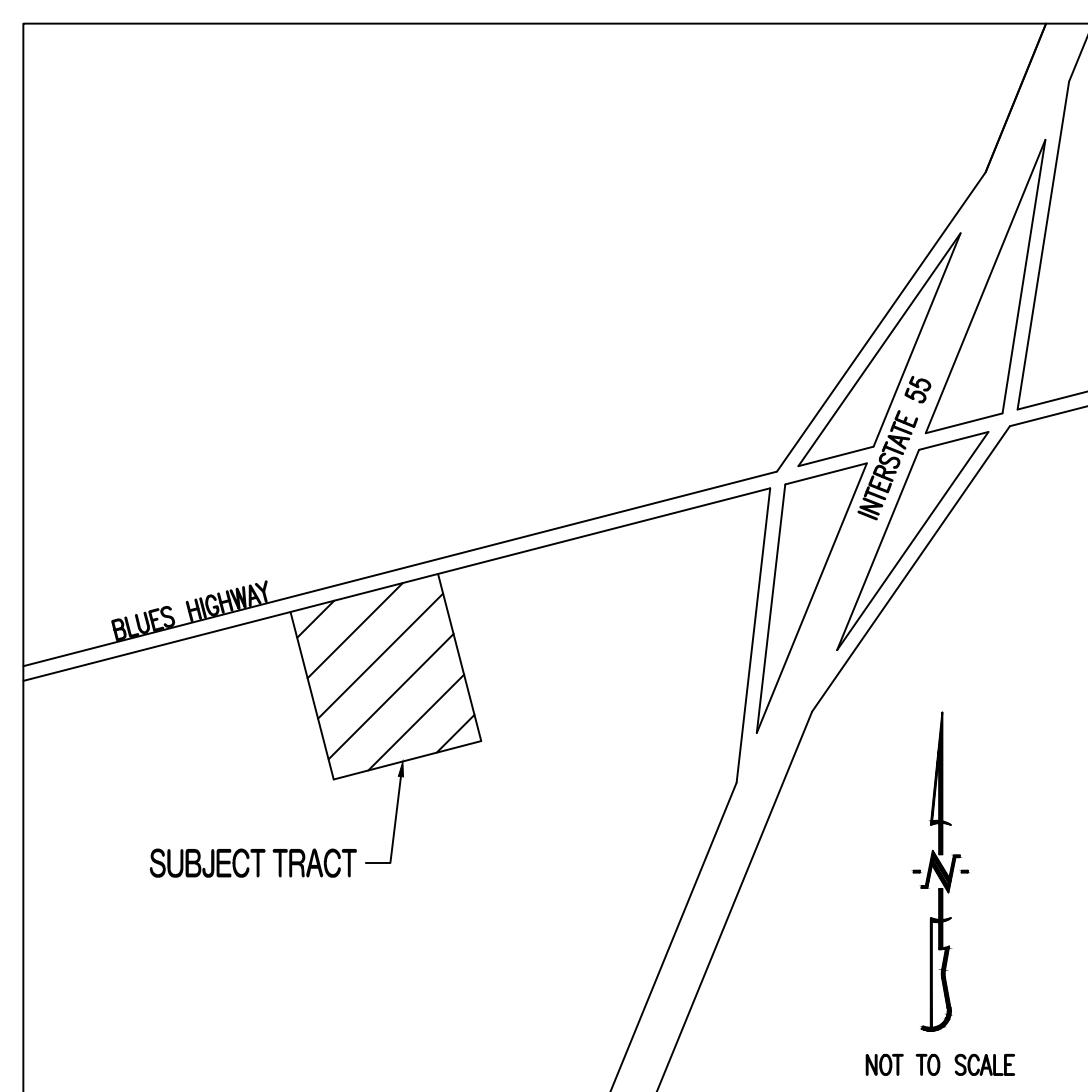
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CHECKED BY: TDC
DESIGNED BY: TDC

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COVER SHEET

SHEET NUMBER:

CE 0
3 OF 23 SHEETS
02/27/2023

LOCATION MAP



PROJECT BENCHMARK:

TBM #1 - CHISELED + TOP FLANGE BOLT OF FH ELEVATION = 299.18

FLOOD PLAIN STATEMENT:

THIS TRACT IS LOCATED IN ZONE X UNSHADED - AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOOD AS SHOWN ON THE FEMA F.I.R.M. PANEL #2902560005B, DATED JUNE 15, 1979.

UTILITY COMPANIES:

LOCATES:

MISSOURI ONE CALL INC.
1022 B NORTHEAST DRIVE
JEFFERSON CITY, MO 65109
1-800-344-7483



WATER/SANITARY:

WATER AND SEWER DEPARTMENT
560 MOTT STREET
NEW MADRID, MO 63869
573-748-2458

GENERAL NOTES:

ALL STREET, STORM DRAIN, AND SANITARY SEWER CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF NEW MADRID SPECIFICATIONS AND STANDARDS.

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

A GEOTECHNICAL EVALUATION OF THE SUBSURFACE SOIL, GROUNDWATER CONDITIONS, AND A SLOPE STABILITY ANALYSIS HAS NOT BEEN PERFORMED BY THIS ENGINEER. THE OWNER SHALL SATISFY THEMSELVES OF ALL GEOTECHNICAL CONDITIONS PRIOR TO ANY CONSTRUCTION.

ALL LAND DISTURBANCE ACTIVITIES SHALL BE IN ACCORDANCE WITH THE CITY OF NEW MADRID CODE OF ORDINANCES.

ANY FILL PLACEMENT WITHIN STREET RIGHT-OF-WAY SHALL BE INSPECTED BY THE CITY OF NEW MADRID.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MOADR CLEAN WATER COMMISSION.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" SHALL BE FINE GRADED, SEEDED, AND MULCHED.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

ALL EXCAVATION WITHIN THE STREET RIGHT-OF-WAY SHALL BE BACKFILLED PER CURRENT CITY OF NEW MADRID SPECIFICATIONS.

ALL SANITARY SEWER PIPE TO BE 4" PVC SDR 35 UNLESS OTHERWISE NOTED.

ALL SEWERLINES SHALL BE CONSTRUCTED AT LEAST 10 FEET HORIZONTALLY, EDGE TO EDGE, FROM ANY WATERLINE AND AT LEAST 24 INCHES VERTICALLY BETWEEN THE OUTSIDE LIMITS OF THE SANITARY SEWER AND WATERLINE. FOR CONDITIONS OTHER THAN THOSE IDENTIFIED ABOVE, CONTACT THE ENGINEER FOR SPECIFIC INSTRUCTIONS.

ALL SEWER GREATER THAN 15 FEET IN DEPTH SHALL BE A MINIMUM OF SDR 26.

ALL LATERAL LINES SHALL HAVE TRACER WIRE INSTALLED.

TOTAL DISTURBED AREA ON SITE = 0.15 AC.

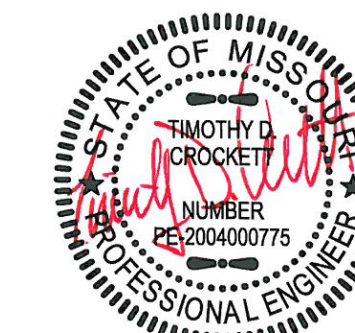
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REV #	DATE	COMMENTS			
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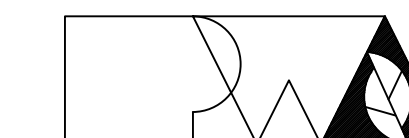
CE 0 - COVERSHEET
CE 1 - SITE/UTILITY PLAN
CE 2 - DETAILS

LEGEND OF SYMBOLS:

- EXISTING CURB
- PROPOSED CURB
- EXISTING STRUCTURE
- EXISTING WATERLINE
- OE --- EXISTING OVERHEAD ELECTRIC
- S --- EXISTING SANITARY SEWER
- S --- PROPOSED SANITARY SEWER
- XXX--- EXISTING MINOR CONTOUR
- XXX--- EXISTING MAJOR CONTOUR
- EXISTING SIGNS
- ⊗ EXISTING POWER POLE
- ⊗ EXISTING WATER VALVE
- ⊗ EXISTING FIRE HYDRANT
- ⊗ MANHOLE
- EXISTING SANITARY SEWER LATERAL
- PROPOSED SANITARY SEWER LATERAL
- [AC] EXISTING AIR CONDITIONER
- ⊗ EXISTING LIGHT POLE
- EXISTING GUY WIRE



02/27/2023 TIMOTHY D. CROCKETT
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02233-01 -
MULTIPURPOSE
BUILDING for MDA USE
NEW MADRID STATE
OFFICE BUILDING
NEW MADRID, MISSOURI

PROJECT # 02233-01
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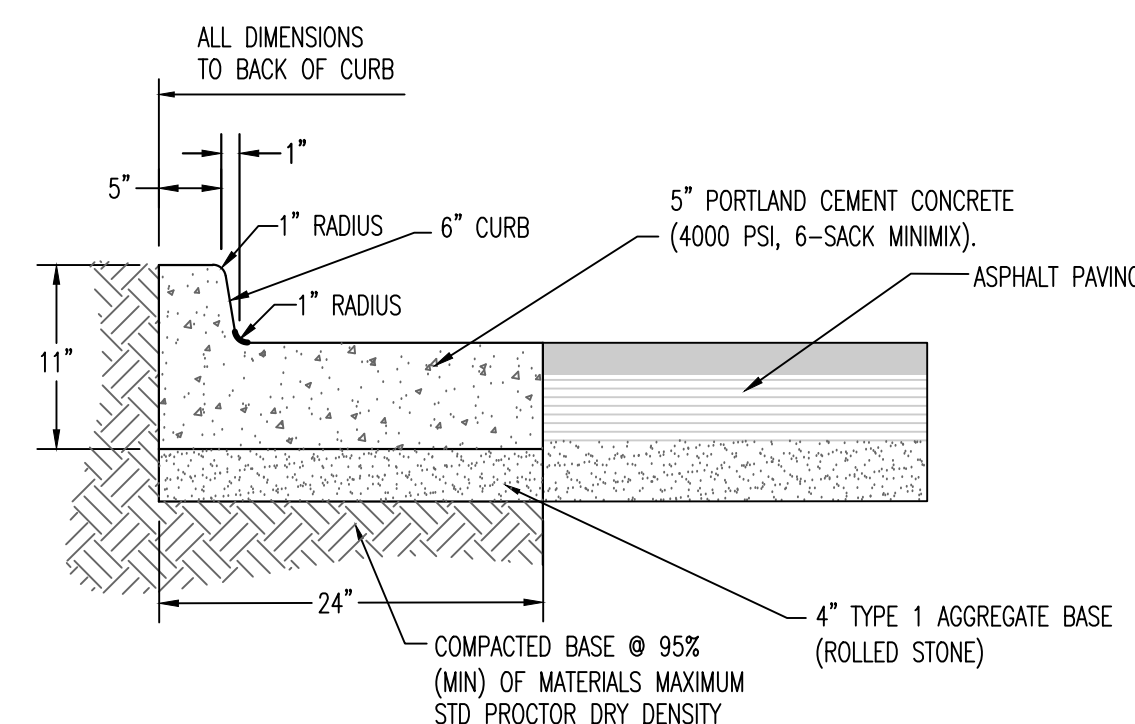
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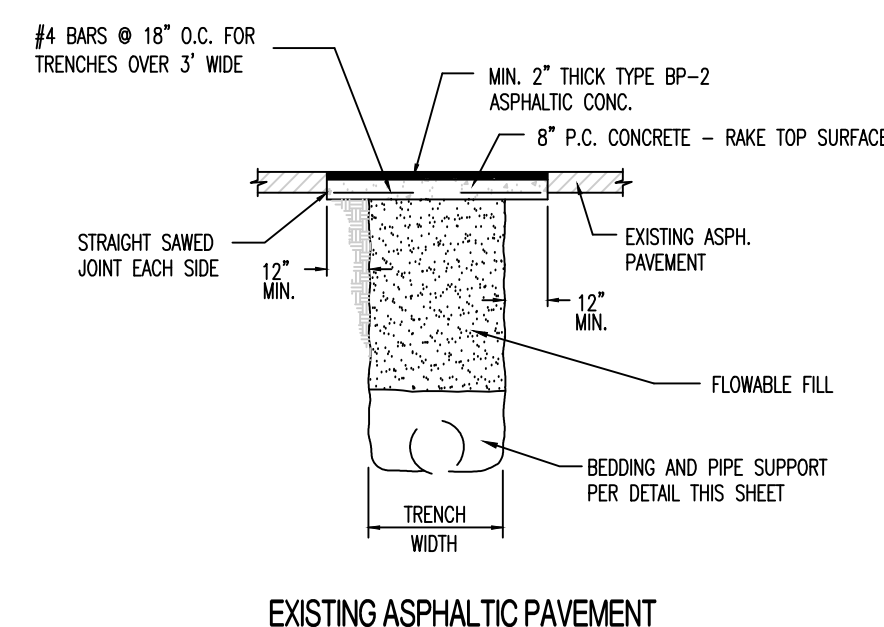
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DETAILS

SHEET NUMBER:

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5 OF 23 SHEETS
02/27/2023

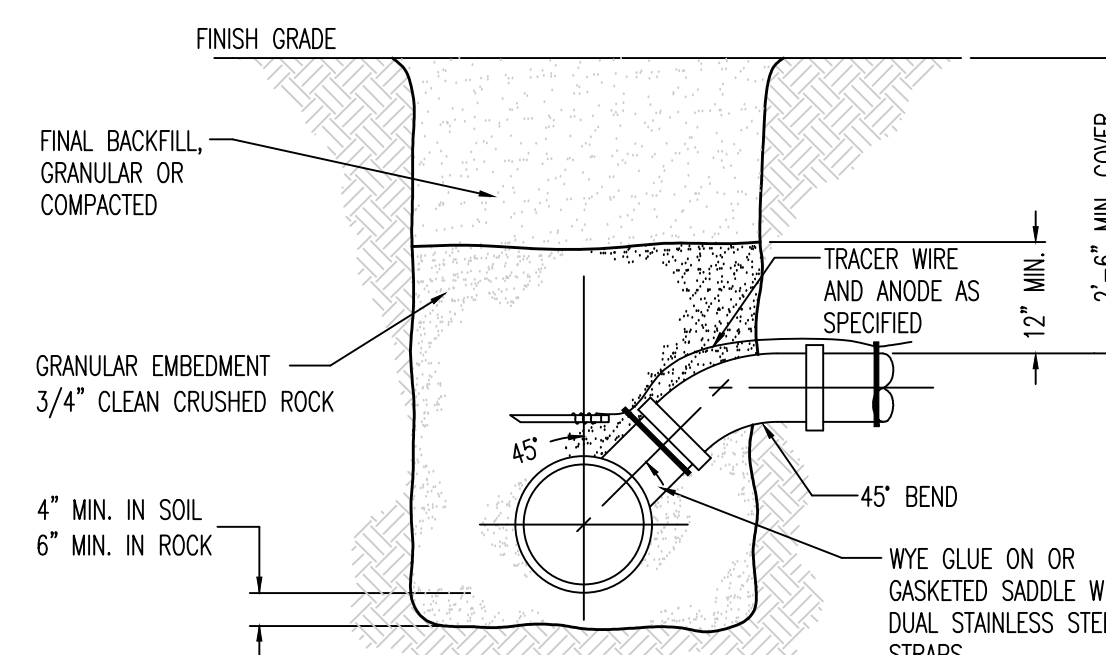


**6' x 24' BARRIER CURB ABUTTING ASPHALT
LIGHT DUTY ASPHALT PAVEMENT**



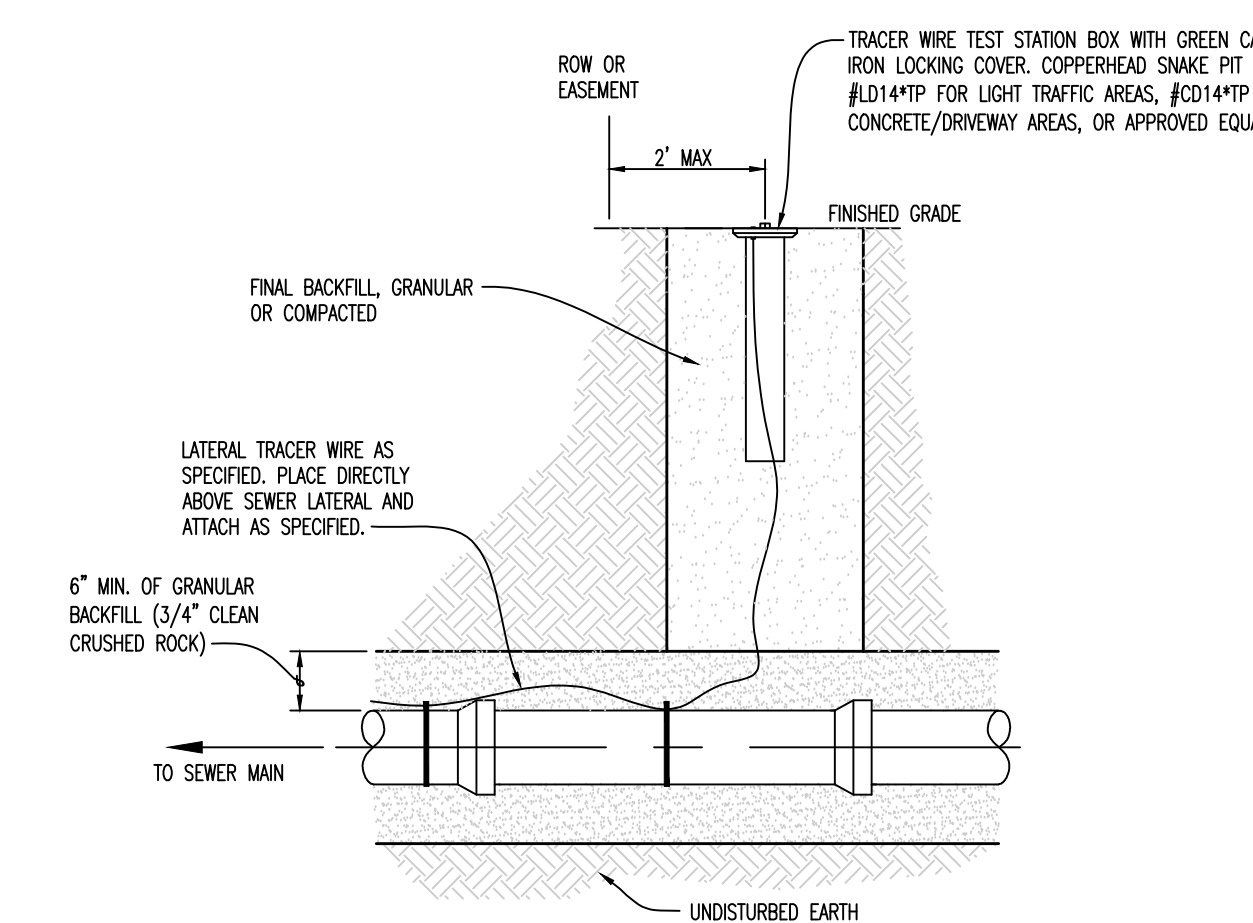
NOTES: CONCRETE SHALL BE CLASS AA
REINFORCING STEEL SHALL BE GRADE 60

PATCHING Paved Streets (120.0)



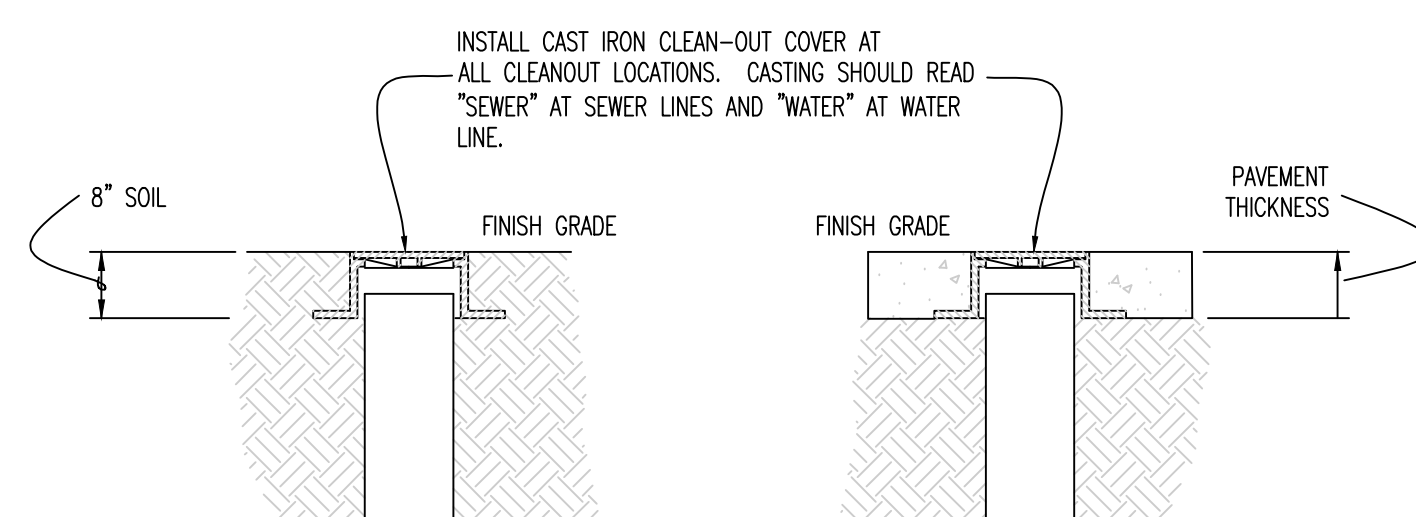
NOTES:
1. VCP PIPES SHALL NOT BE TAPPED. REPLACE SECTION OF VCP WITH PVC AND FITTING.

STANDARD SERVICE CONNECTION DETAIL (13)

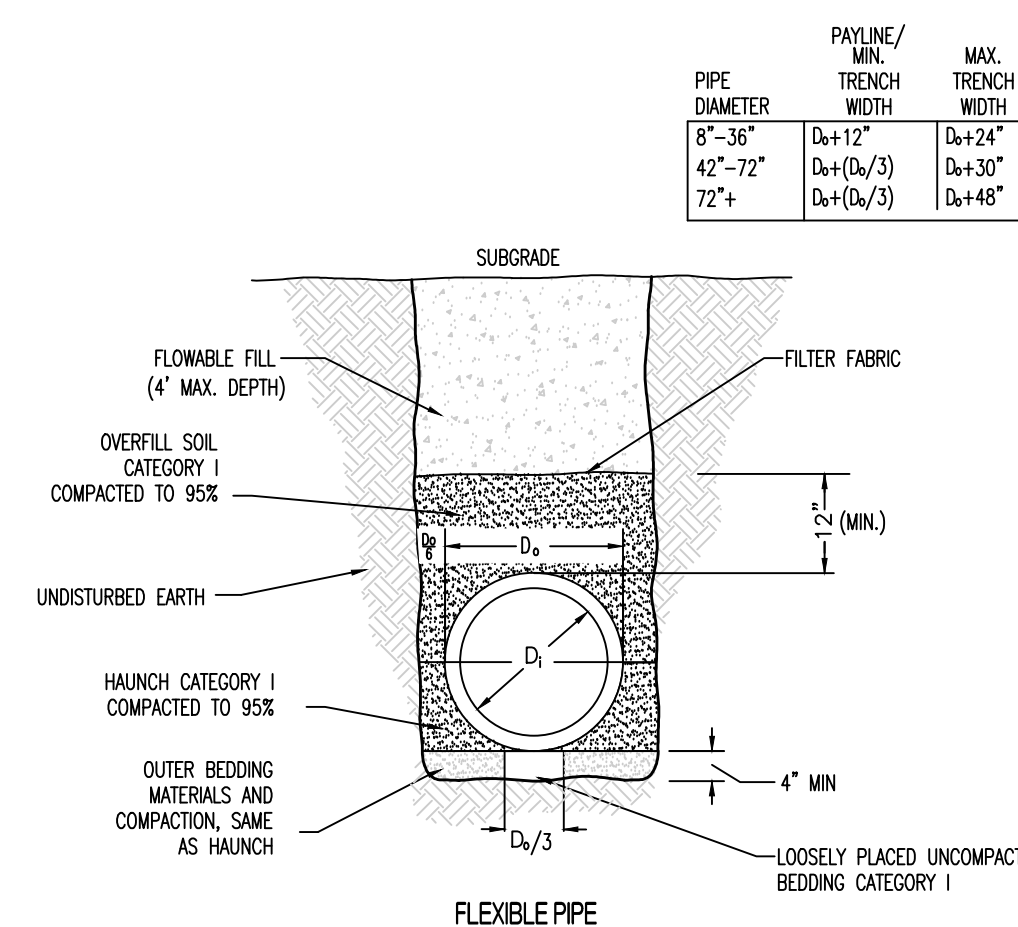


1. TRACER WIRE TEST STATIONS FOR NEW CONSTRUCTION SHALL EXTEND 1' ABOVE THE PROPOSED FINAL GRADE USING SNAKEPIT #LD14*TP-ADJ OR APPROVED EQUAL. UPON COMPLETION OF FINAL GRADING, CONTRACTOR SHALL ADJUST THE TEST STATION BOX TO MEET FINAL GRADE.

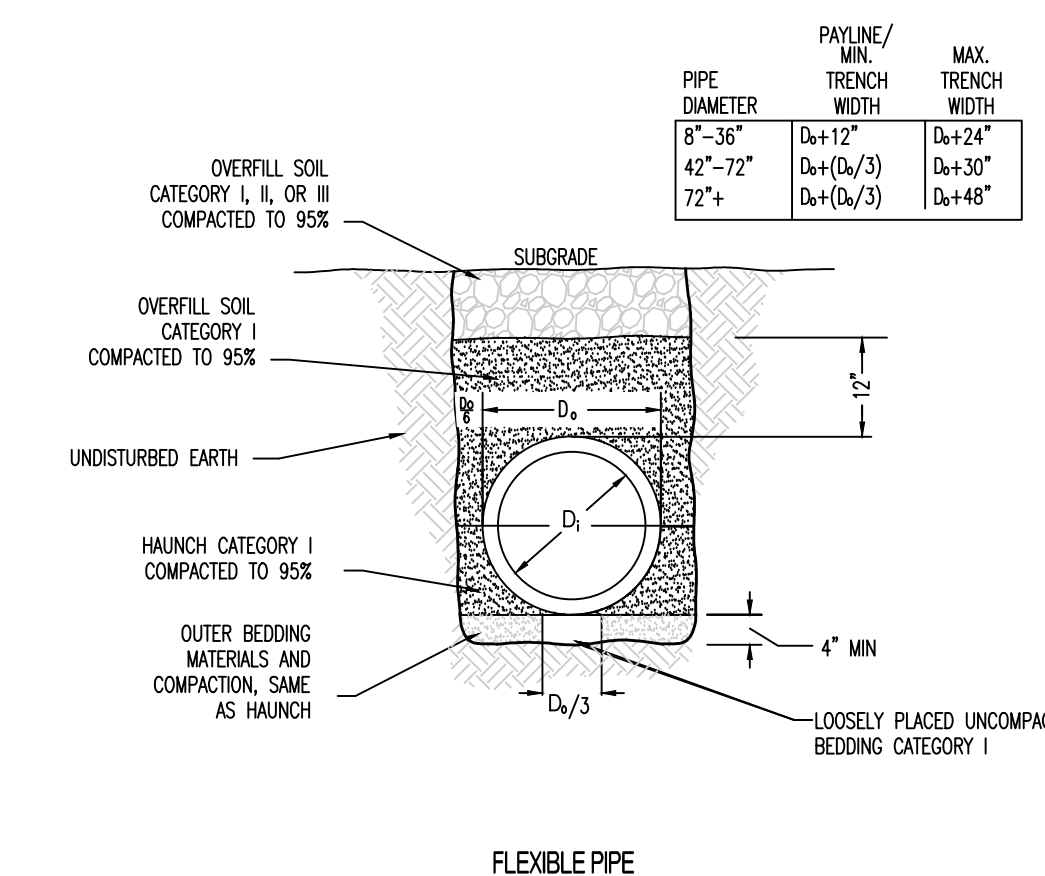
STANDARD TRACER WIRE TEST STATION (12A)



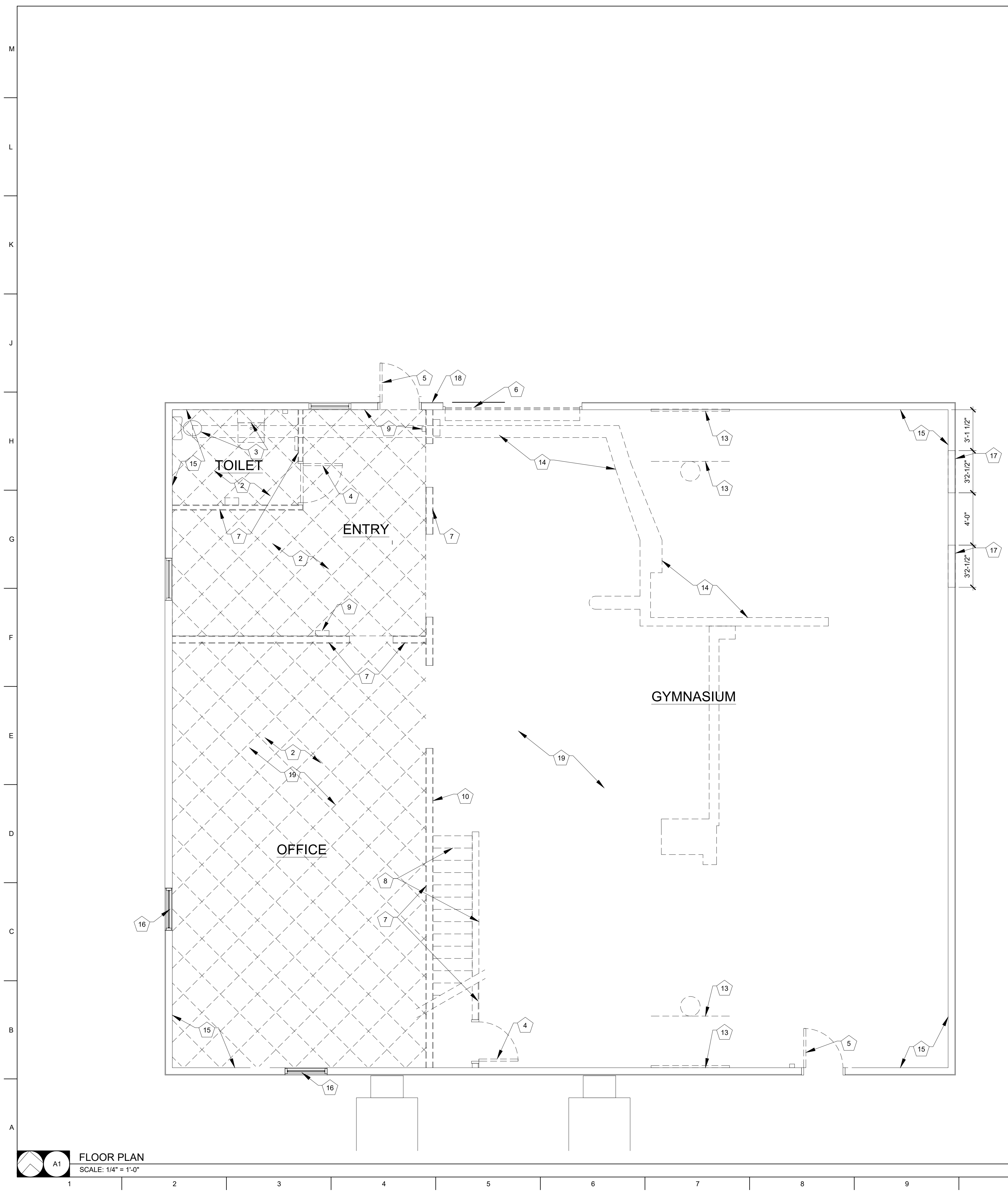
CLEANOUT COVERS



PIPE EMBEDMENT (UNDER PAVEMENT)



PIPE EMBEDMENT (NOT UNDER PAVEMENT)



KEY NOTES

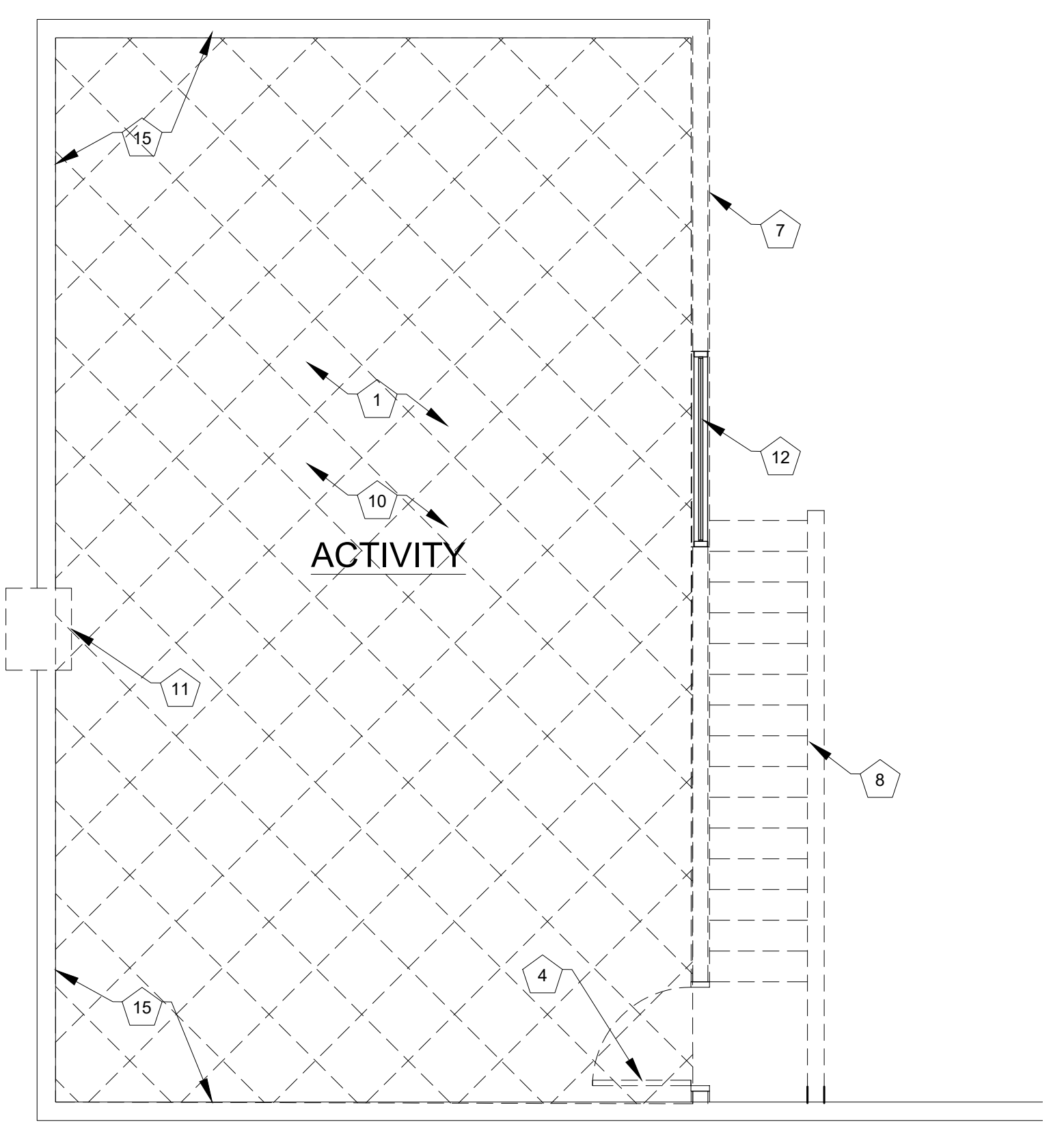
- 1 DEMO AND REMOVE ALL EXISTING BROADLOOM GLUE DOWN CARPET FLOORING AND RUBBER COVE BASE
- 2 DEMO AND REMOVE ALL EXISTING VINYL PLANK FLOORING AND RUBBER COVE BASE
- 3 DEMO AND REMOVE EXISTING SINK, TOILET, HAND DRYER, PLUMBING AND ACCESSORIES
- 4 DEMO AND REMOVE EXISTING HOLLOW CORE WOOD DOOR AND WOOD FRAME
- 5 DEMO AND REMOVE EXISTING INSULATED HOLLOW METAL DOOR AND FRAME
- 6 DEMO AND REMOVE EXISTING INSULATED OVERHEAD GARAGE DOOR, HARDWARE AND TRACK
- 7 DEMO AND REMOVE EXISTING INTERIOR WOOD STUD AND GYPSUM BOARD WALLS
- 8 DEMO AND REMOVE ALL EXISTING WOOD FRAMED STAIRS, RAILINGS AND WALLS
- 9 DEMO AND REMOVE ALL EXISTING FIRE ALARM SYSTEM, EXIT LIGHTS AND CONDUIT
- 10 DEMO AND REMOVE ALL EXISTING MEZZANINE FLOOR FRAMING
- 11 DEMO AND REMOVE EXISTING THROUGH WALL AIR CONDITIONING UNIT
- 12 DEMO AND REMOVE EXISTING WINDOW GLAZING AND FRAME
- 13 REMOVE AND SALVAGE TO OWNER EXISTING WINDOW WALL MOUNTED BASKETBALL GOALS, BACKBOARDS, FRAMES AND WALL PADDING
- 14 SAW CUT, DEMO AND REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW PLUMBING PIPE AND FIXTURE INSTALLATION. SEE MEP
- 15 DEMO OR REMOVE WALL EXISTING GYPSUM BOARD OR PAINTED WOOD WALL SHEATHING ON THE EXTERIOR WALLS

GENERAL NOTES

- 16 DEMO OR REMOVE EXISTING DOUBLE HUNG VINYL WINDOW
- 17 DEMO OR REMOVE EXISTING WALL AS REQUIRED FOR NEW WINDOWS
- 18 DEMO OR REMOVE EXISTING METAL SIDING AS REQUIRED FOR NEW CANOPY INSTALLATION
- 19 REMOVE ALL EXISTING FLOOR COATINGS, CLEAN AND PREPARE NEW AND EXISTING FLOOR SLABS FOR NEW SEALED CONCRETE

GENERAL NOTES

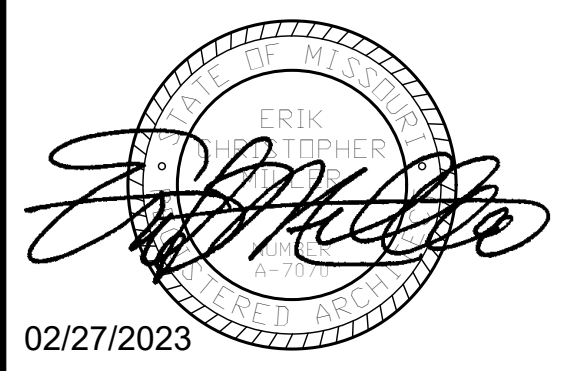
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
1. PROVIDING DUST, NOISE AND SAFETY BARRIERS
 2. CAPPING OFF ALL UTILITY SERVICES
 3. CAREFULLY REMOVING AND SAVING ITEMS THAT CAN BE REUSED OR RETURNED TO THE OWNER.
 4. PROPERLY SHORING UP ALL STRUCTURES, WHETHER DIRECTED BY STRUCTURAL ENGINEER OR NOT.
 5. PROTECTING ALL ITEMS AND FINISHES TO REMAIN, OR REPLACING SUCH ITEMS AND FINISHES DAMAGED DURING DEMOLITION AS REQUIRED BY THE ARCHITECT
 6. CLEANING UP ALL SURFACES ADJOINING DEMOLITION WORK TO PREPARE FOR NEW WORK BY OTHER TRADES, INCLUDING REMOVAL OF ALL ANCHORS, BRACKETS, FASTENERS, BLOCKING, ETC. THAT MAY INTERFERE WITH NEW WORK
 7. MAINTAINING WATERPROOFING AND SECURITY OF BUILDINGS.
 8. LEAVING ALL AREAS OF DEMOLITION READY FOR NEW WORK.
 9. NOTIFYING ARCHITECT OF ANY ITEMS NOT NOTED FOR REMOVAL THAT WILL INTERFERE WITH NEW WORK.
 10. MAINTAINING ACCESS TO AND EXITS FROM BUILDINGS AS REQUIRED BY OWNER AND CODE OFFICIALS.
 11. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIRED DEMOLITION WORK.
 12. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL REQUIRED DEMOLITION WORK.
 13. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.



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

MEZZANINE DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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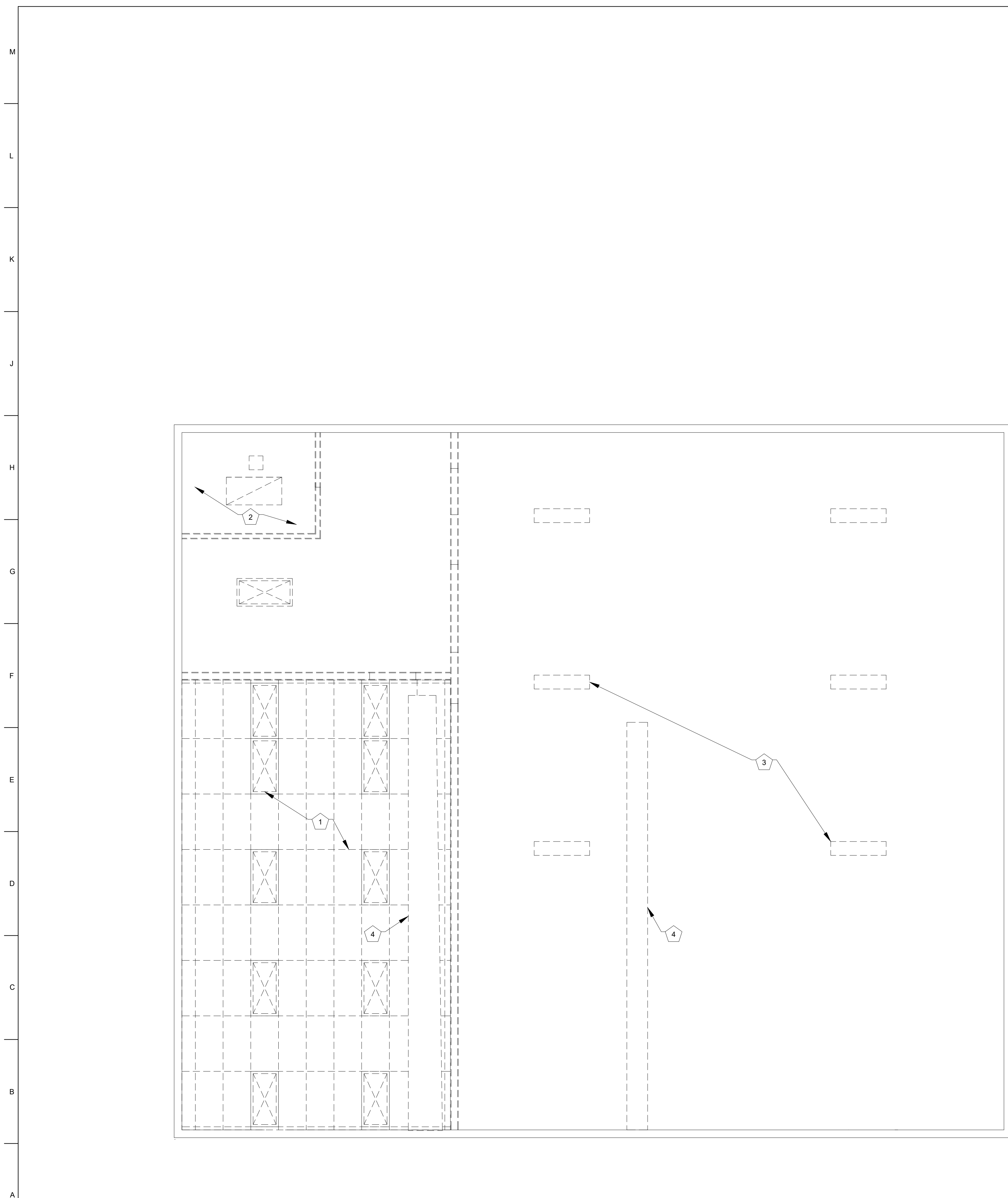
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CAD DWG FILE: _____
DRAWN BY: LC
CHECKED BY: EM
DESIGNED BY: EM

SHEET TITLE:
**DEMOLITION
PLANS**

SHEET NUMBER:
D-101
7 OF 23 SHEETS
02/27/2023

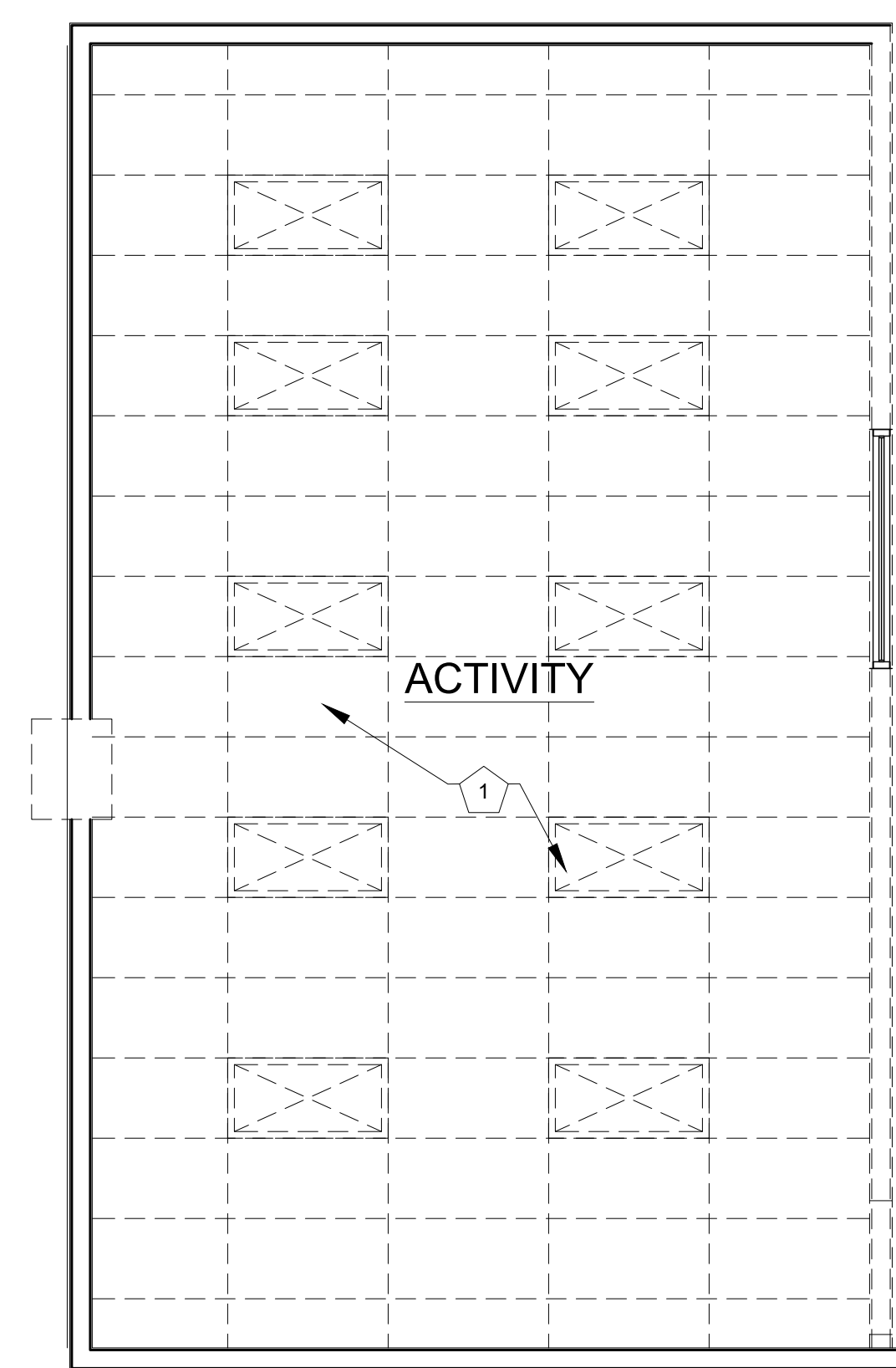


KEY NOTES

- 1 DEMO AND REMOVE ALL EXISTING 2X4 ACOUSTIC CEILING TILE, GRID, LIGHTS, DIFFUSERS AND HANGERS
- 2 DEMO AND REMOVE ALL EXISTING WOOD STUD FRAMING AND GYPSUM BOARD BATHROOM CEILING, LIGHT AND FAN
- 3 REMOVE EXISTING LIGHTS AND SALVAGE TO OWNER
- 4 DEMO AND REMOVE ALL EXISTING METAL AND FABRIC DUCT WORK

GENERAL DEMOLITION NOTES

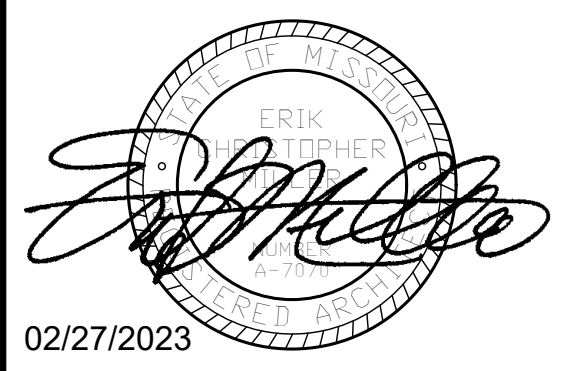
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 2. CAREFULLY REMOVING AND SAVING ITEMS THAT CAN BE REUSED OR RETURNED TO THE OWNER.
 3. PROTECTING ALL ITEMS AND FINISHES TO REMAIN, OR REPLACING SUCH ITEMS AND FINISHES DAMAGED DURING DEMOLITION AS REQUIRED BY THE ARCHITECT
 4. CLEANING UP ALL SURFACES ADJOINING DEMOLITION WORK TO PREPARE FOR NEW WORK BY OTHER TRADES, INCLUDING REMOVAL OF ALL ANCHORS, BRACKETS, FASTENERS, BLOCKING, ETC. THAT MAY INTERFERE WITH NEW WORK
 5. MAINTAINING WATERPROOFING AND SECURITY OF BUILDINGS.
 6. LEAVING ALL AREAS OF DEMOLITION READY FOR NEW WORK.
 7. NOTIFYING ARCHITECT OF ANY ITEMS NOT NOTED FOR REMOVAL THAT WILL INTERFERE WITH NEW WORK.
 8. MAINTAINING ACCESS TO AND EXITS FROM BUILDINGS AS REQUIRED BY OWNER AND CODE OFFICIALS.



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

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

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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O2233-01 -
MULTIPURPOSE
BUILDING for MDA USE
NEW MADRID STATE
OFFICE BUILDING
NEW MADRID, MISSOURI

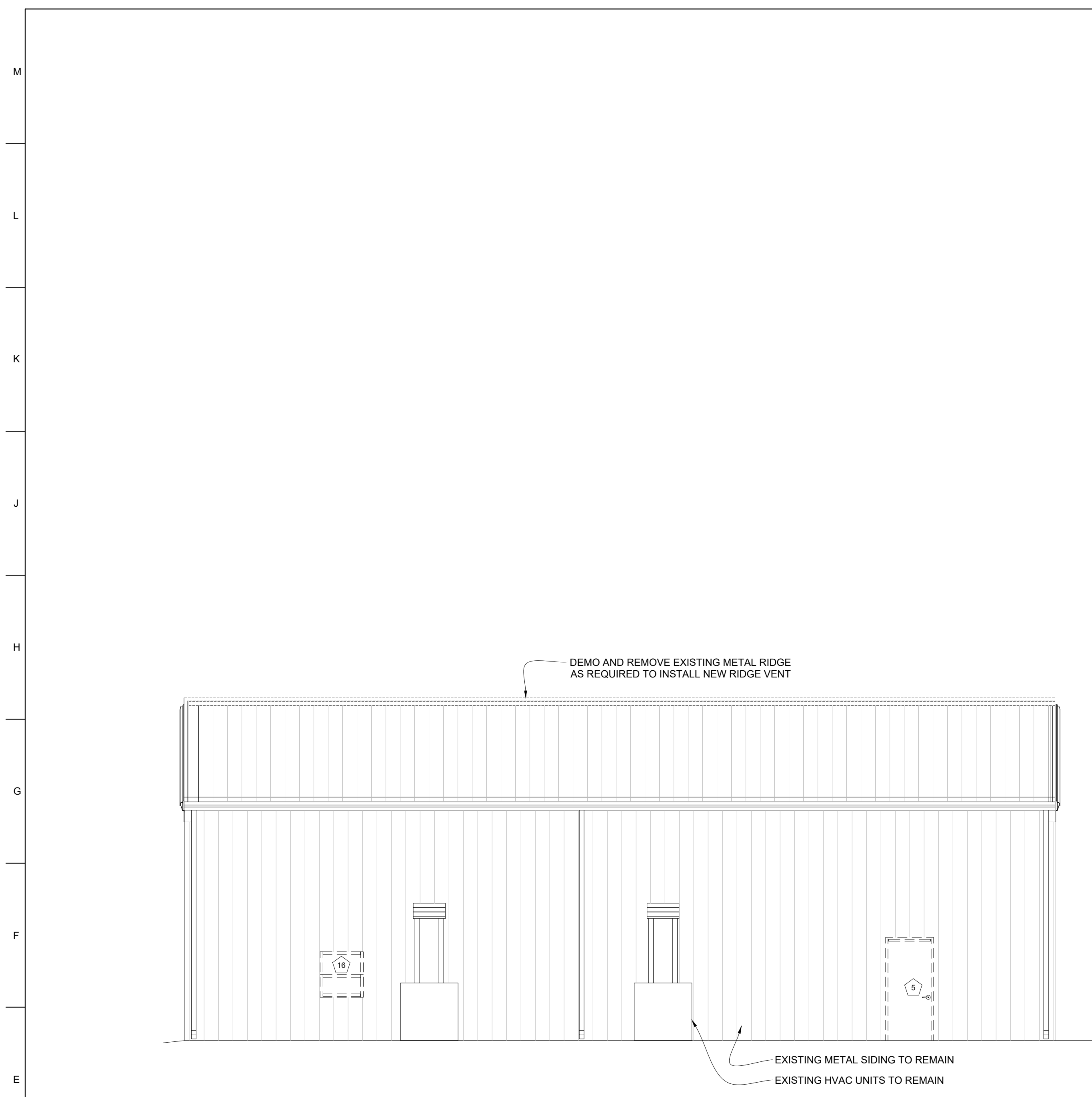
PROJECT # O2233-01
SITE # 7711
ASSET # 8877711007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 02/27/2023

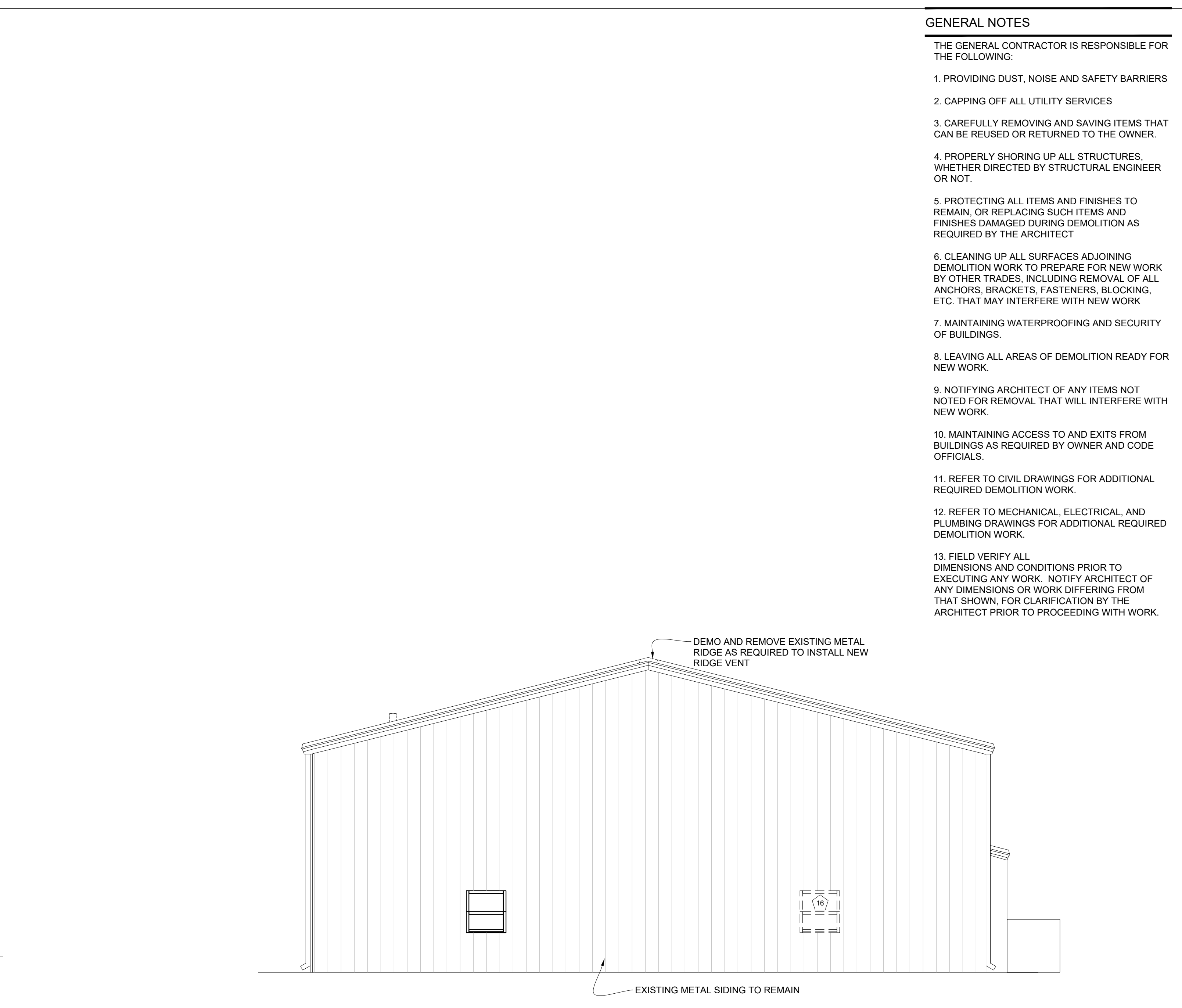
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DESIGNED BY: EM

SHEET TITLE:
**DEMOLITION
CEILING PLANS**

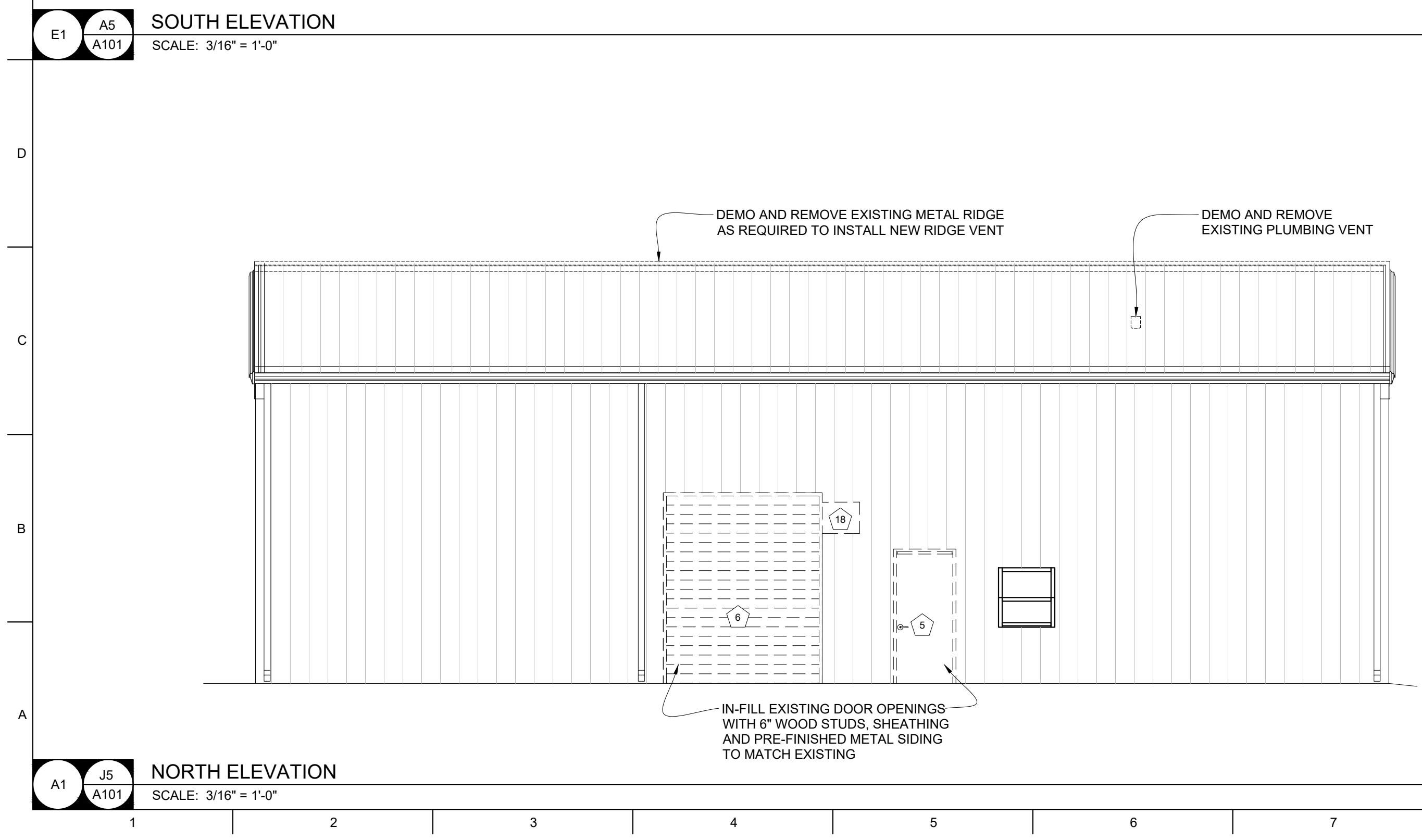
SHEET NUMBER:
D-102
8 OF 23 SHEETS
02/27/2023



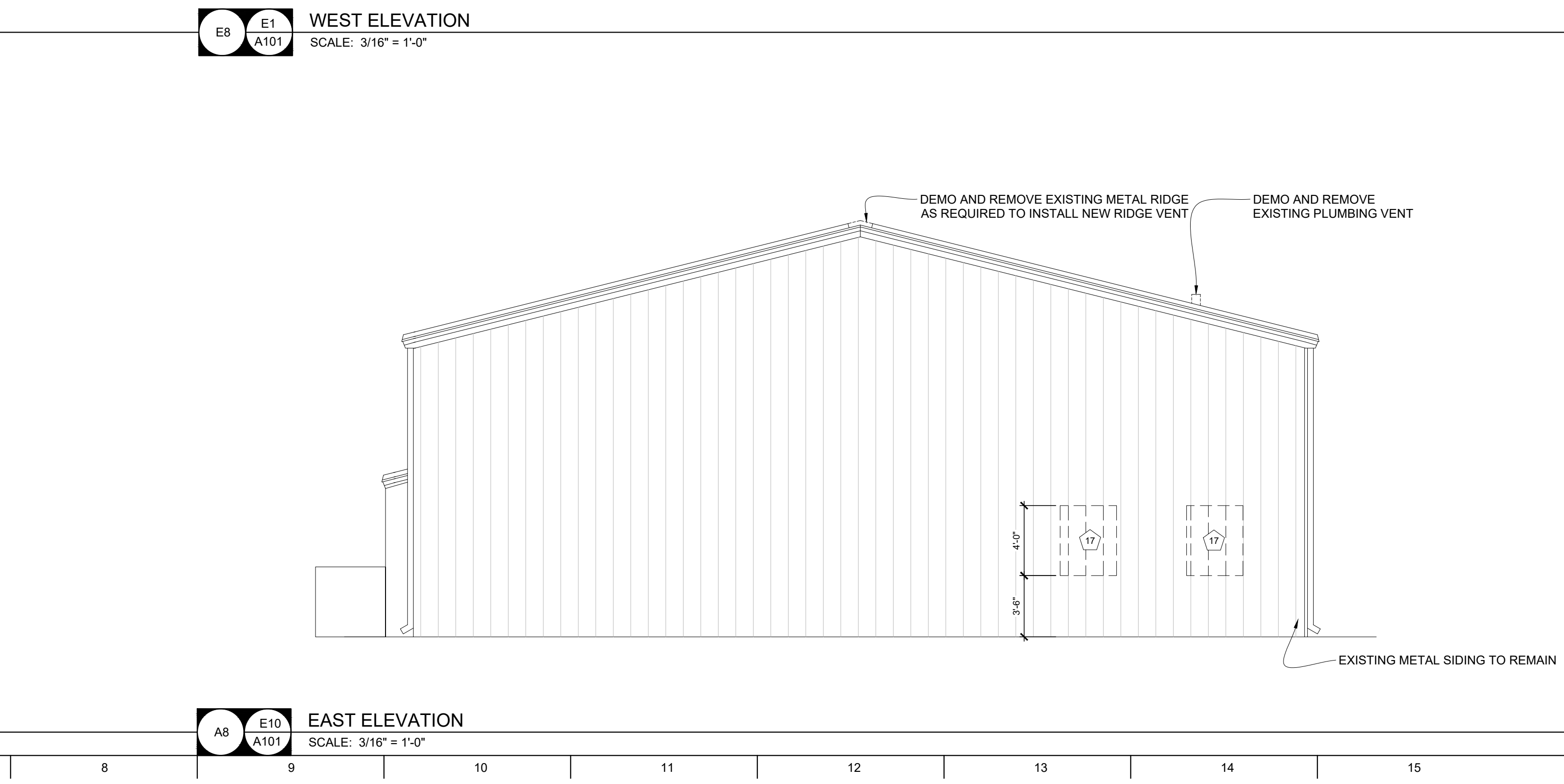
SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



WEST ELEVATION
SCALE: 3/16" = 1'-0"



NORTH ELEVATION
SCALE: 3/16" = 1'-0"

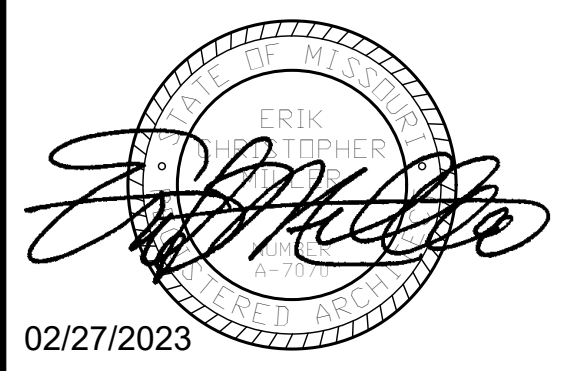


EAST ELEVATION
SCALE: 3/16" = 1'-0"

GENERAL NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
1. PROVIDING DUST, NOISE AND SAFETY BARRIERS
 2. CAPPING OFF ALL UTILITY SERVICES
 3. CAREFULLY REMOVING AND SAVING ITEMS THAT CAN BE REUSED OR RETURNED TO THE OWNER.
 4. PROPERLY SHORING UP ALL STRUCTURES, WHETHER DIRECTED BY STRUCTURAL ENGINEER OR NOT.
 5. PROTECTING ALL ITEMS AND FINISHES TO REMAIN, OR REPLACING SUCH ITEMS AND FINISHES DAMAGED DURING DEMOLITION AS REQUIRED BY THE ARCHITECT
 6. CLEANING UP ALL SURFACES ADJOINING DEMOLITION WORK TO PREPARE FOR NEW WORK BY OTHER TRADES, INCLUDING REMOVAL OF ALL ANCHORS, BRACKETS, FASTENERS, BLOCKING, ETC. THAT MAY INTERFERE WITH NEW WORK
 7. MAINTAINING WATERPROOFING AND SECURITY OF BUILDINGS.
 8. LEAVING ALL AREAS OF DEMOLITION READY FOR NEW WORK.
 9. NOTIFYING ARCHITECT OF ANY ITEMS NOT NOTED FOR REMOVAL THAT WILL INTERFERE WITH NEW WORK.
 10. MAINTAINING ACCESS TO AND EXITS FROM BUILDINGS AS REQUIRED BY OWNER AND CODE OFFICIALS.
 11. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIRED DEMOLITION WORK.
 12. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL REQUIRED DEMOLITION WORK.
 13. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STATE OF MISSOURI
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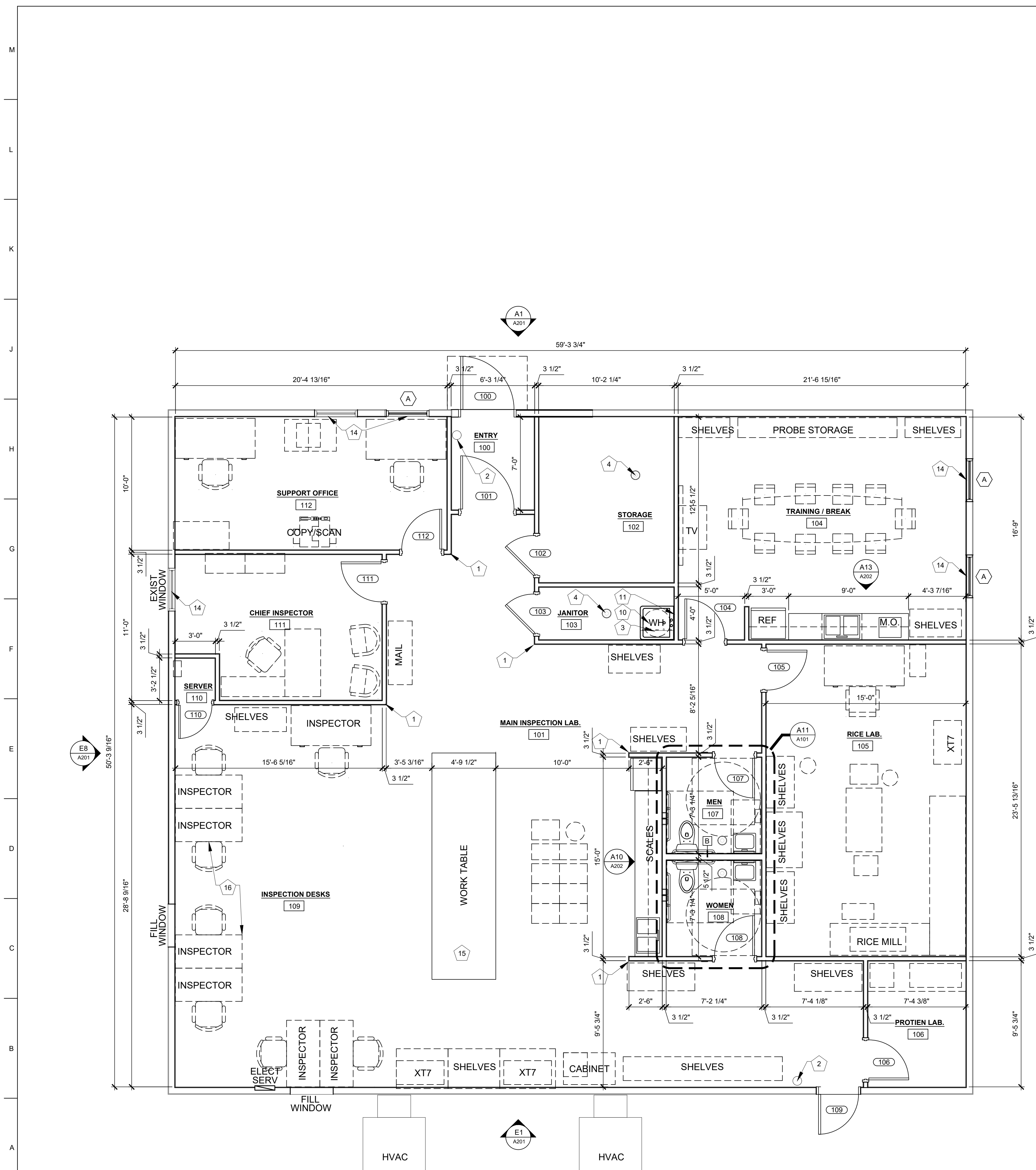
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CHECKED BY: EM
DESIGNED BY: EM

SHEET TITLE:
**DEMOLITION
ELEVATIONS**

SHEET NUMBER:

D-201

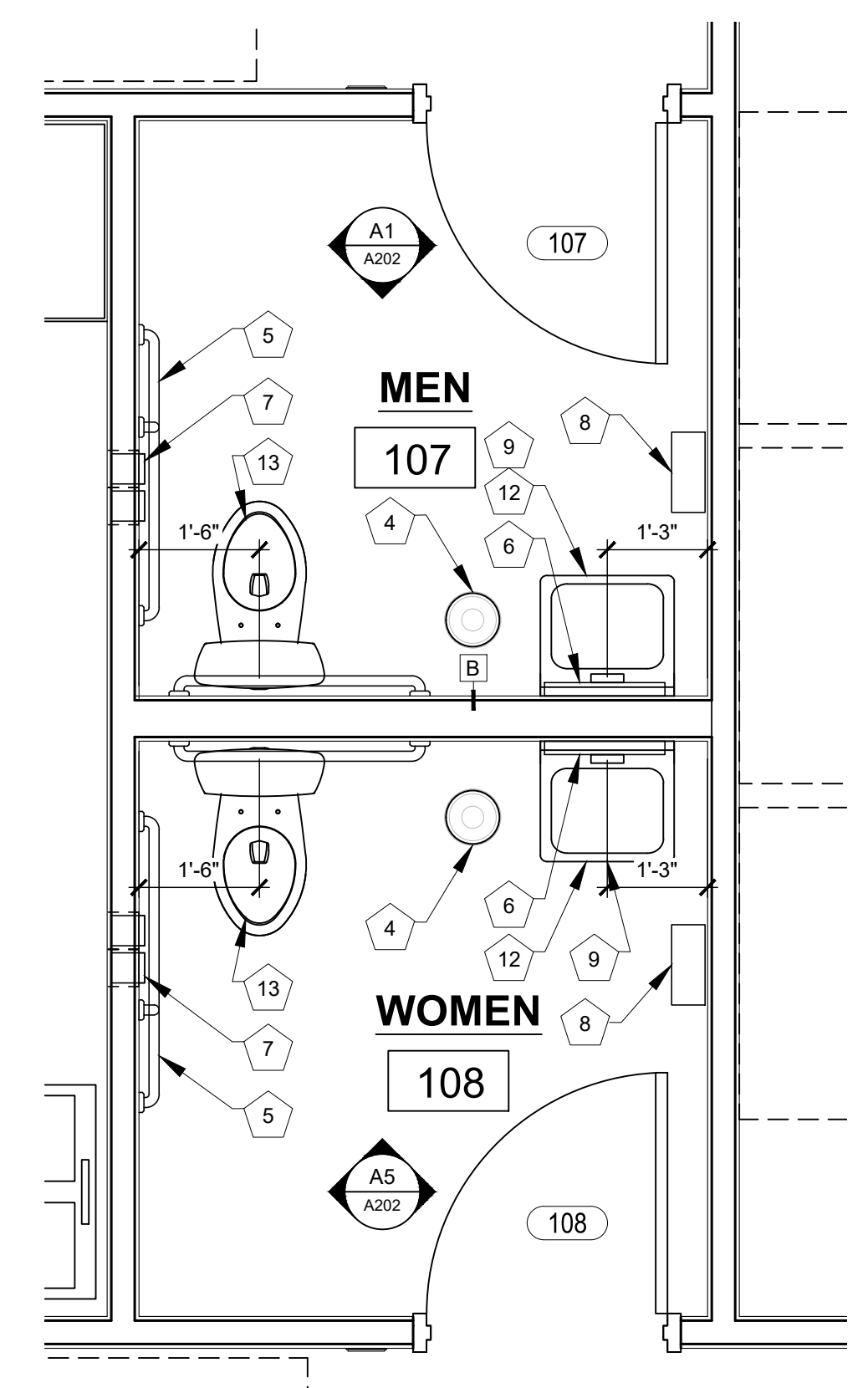
9 OF 23 SHEETS
02/27/2023



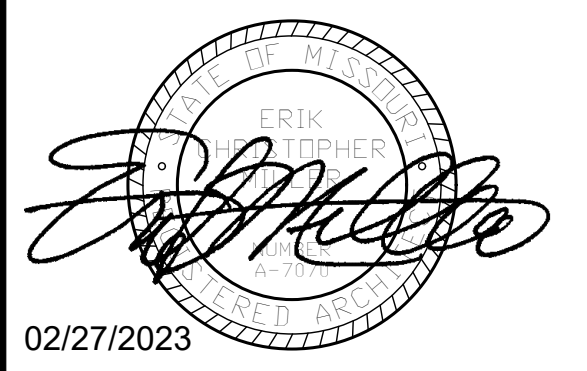
- KEY NOTES**
- 1 CORNER GUARD
 - 2 WALL MOUNTED FIRE EXTINGUISHER
 - 3 MOP RACK, 36" LONG UTILITY SHELF, 4 MOP HOLDERS, 3 HOOKS
 - 4 FLOOR DRAIN - SEE G13 / A202 - SEE MEP
 - 5 GRAB BARS, 18" VERT., 36" & 42" HORIZ. STAINLESS STEEL
 - 6 MIRROR 24"x36", 1/4" FLOAT GLASS, STAINLESS STEEL CHANNEL FRAME
 - 7 RECESSED STAINLESS STEEL TOILET PAPER DISPENSER
 - 8 PAPER TOWEL DISPENSER, SURFACE MOUNTED STAINLESS STEEL
 - 9 ADA PIPE INSULATION KIT
 - 10 MOP SINK, WATER HEATER ON SHELF ABOVE - SEE MEP
 - 11 FRP CORNER BACK SPLASH - 36"x42"
 - 12 LAVATORY - SEE MEP
 - 13 TOILET - SEE MEP
 - 14 ROLLER WINDOW SHADE
 - 15 CUSTOM CASEWORK RELOCATED FROM EXISTING OFFICE
 - 16 FURNITURE BY OWNER

- GENERAL FLOOR PLAN NOTES**
1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
 2. VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
 3. LOCATE DOOR OPENINGS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 6" FROM FINISH WALL TO FINISH JAMB.
 4. COORDINATE ALL FLOOR DRAINS AND OTHER REFERENCED MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS W/ M.E.P.
 5. COORDINATE ALL REQUIRED UTILITIES WITH EQUIPMENT MANUFACTURER.
 6. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
 7. DO NOT SCALE DRAWINGS - WHERE DIMENSIONAL DISCREPANCIES ARE ENCOUNTERED NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
 8. COORDINATE HEIGHTS OF OUTLETS & SWITCHING WITH ALL ARCHITECTURAL ITEMS. SEE M/E DRAWINGS FOR LOCATIONS.
 9. SEE INTERIOR ELEVATIONS FOR ADDITIONAL KEY NOTED ITEMS NOT LABELED IN PLAN.

- WALL KEY**
- A 2x4 WOOD STUDS @ 16" O.C. EACH WAY W/ 5/8" GYPSUM BOARD EA. SIDE TO THE UNDERSIDE OF EXISTING SHEATHING W/ SOUND BATT INSULATION. NOTE: ALL PARTITIONS TYPE A UNLESS NOTED OTHERWISE
 - B 2x6 WOOD STUDS @ 18" O.C. EACH WAY W/ 5/8" GYPSUM BOARD EA. SIDE TO THE UNDERSIDE OF EXISTING SHEATHING W/ SOUND BATT INSULATION.



STATE OF MISSOURI
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O2233-01 -

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NEW MADRID, MISSOURI

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SITE # 7711
ASSET # 8877711007

REVISION: _____
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ISSUE DATE: 02/27/2023

CAD DWG FILE:
DRAWN BY: LC
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DESIGNED BY: EM

SHEET TITLE:
FLOOR PLAN

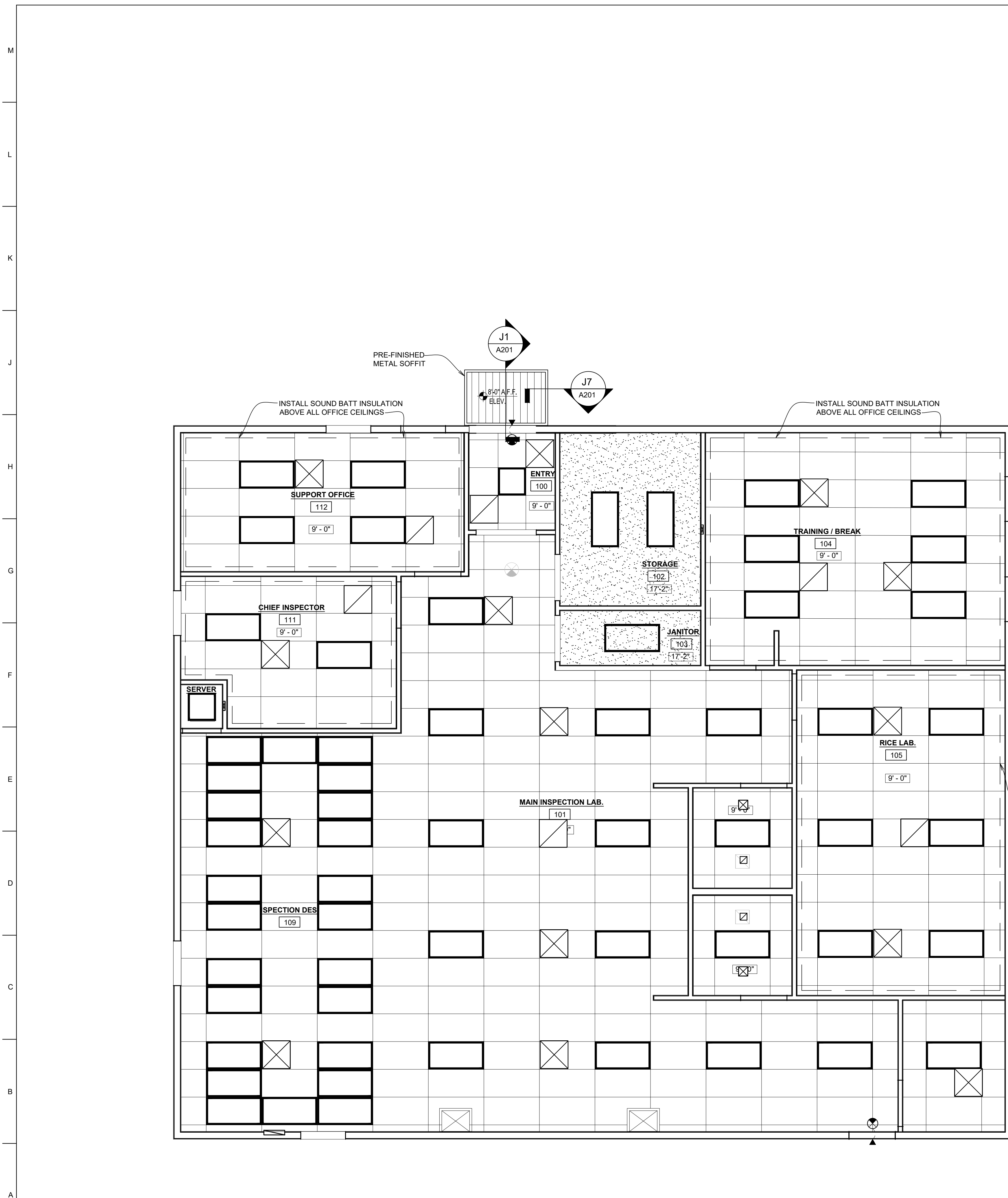
SHEET NUMBER:

A-101

10 OF 23 SHEETS
02/27/2023

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

ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



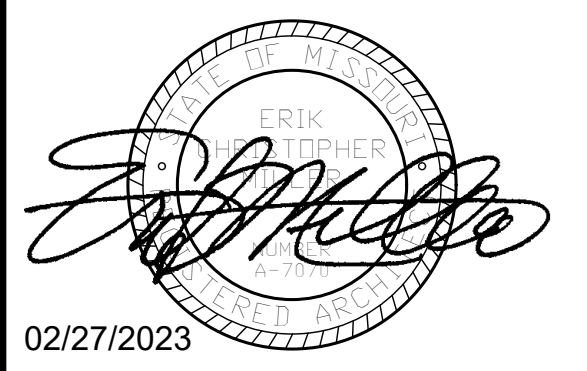
GENERAL REF. CEILING PLAN NOTES

1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
3. COORDINATE ALL REQUIRED UTILITIES WITH EQUIPMENT MANUFACTURER.
4. DO NOT SCALE DRAWINGS - WHERE DIMENSIONAL DISCREPANCIES ARE ENCOUNTERED NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
5. COORDINATE ALL LIGHT FIXTURES, EQUIPMENT, GRILL AND VENTS WITH MEP DRAWINGS.

CEILING MATERIAL LEGEND

- PRE-FINISHED METAL SOFFIT
- PAINTED GYPSUM BOARD
- 2x4 ACT CEILING TILE, SQUARE LAY-IN WHITE, 15/16" WHITE SUSPENSION SYSTEM
- LIGHT FIXTURES SEE MEP
- MECHANICAL UNITS FLUSH MOUNTED SEE MEP

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



Peckham & Wright Architects, Inc., d.b.a.
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PWArchitects.com | 573.443.2583
Peckham & Wright Architects an Architectural Corporation
Missouri State Certificate of Authority No. 000244

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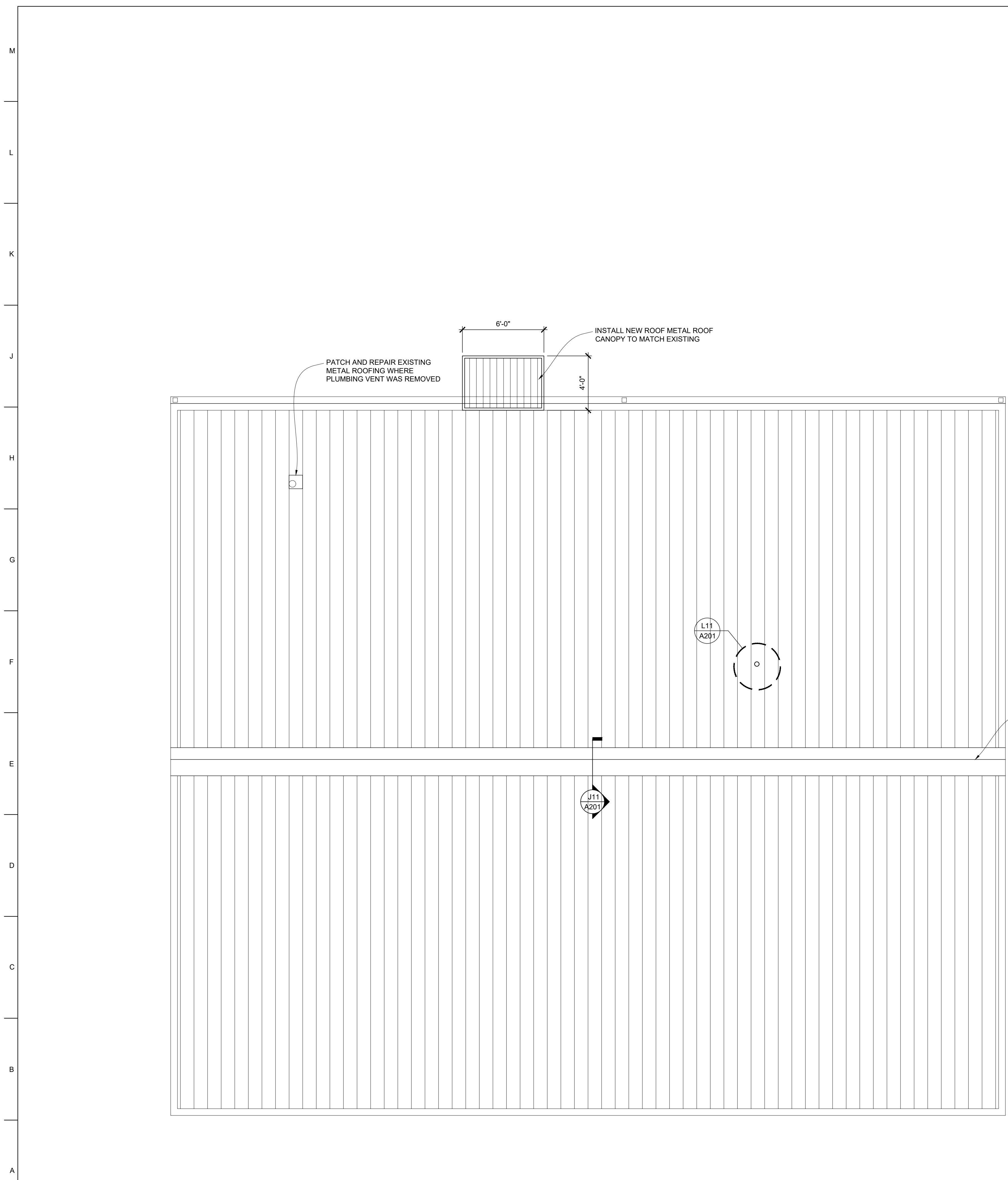
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CHECKED BY: EM
DESIGNED BY: EM

SHEET TITLE:
**REFLECTED
CEILING PLAN**

SHEET NUMBER:

A-102

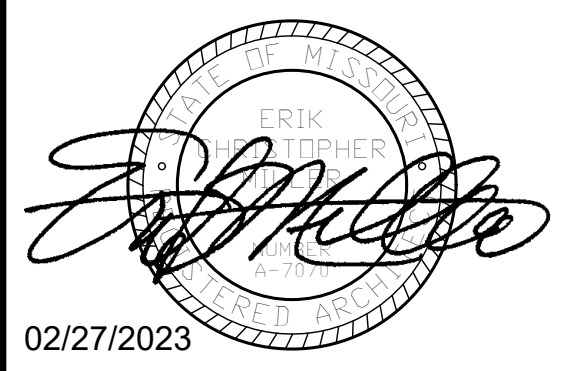
11 OF 23 SHEETS
02/27/2023



ROOF PLAN NOTES

1. ANY ROOFING DETAILS NOT SHOWN SHALL BE DONE IN ACCORDANCE W/ ROOFING FABRICATOR OR INSTALLER APPROVED DETAILS.
2. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL, PLUMBING & ELECTRICAL WORK. PROVIDE ALL BLOCKINGS, FLASHINGS, CURBS & OTHER RELATED ITEMS AS REQUIRED FOR PROPER INSTALLATION OF MECHANICAL, PLUMBING & ELECTRICAL ITEMS. COMPLY WITH REQUIREMENTS OF NRCA &/OR SMACNA. NOTIFY ARCHITECT OF FABRICATOR OR INSTALLER REQUIREMENTS THAT DIFFER FROM THE REFERENCED STANDARDS.
3. INSTALL ALL ROOFING AND FLASHINGS IN ACCORDANCE WITH REQUIREMENTS OF ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. INSTALL SEALANT TAPE BETWEEN ALL NON-SOLDERED CONNECTIONS OF FLASHINGS, GUTTERS, DOWNSPOUTS AND OTHER AREAS TO MAKE WATER-TIGHT ROOF & FLASHINGS.
5. THE INTENT OF THE ROOF PLANS & DETAILS IS TO ACHIEVE A COMPLETE & PROPER WATER-TIGHT INSTALLATION, REGARDLESS IF A DETAIL IS OR IS NOT SHOWN.

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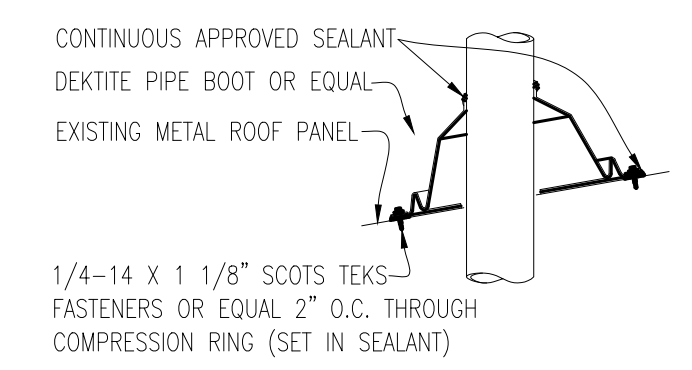
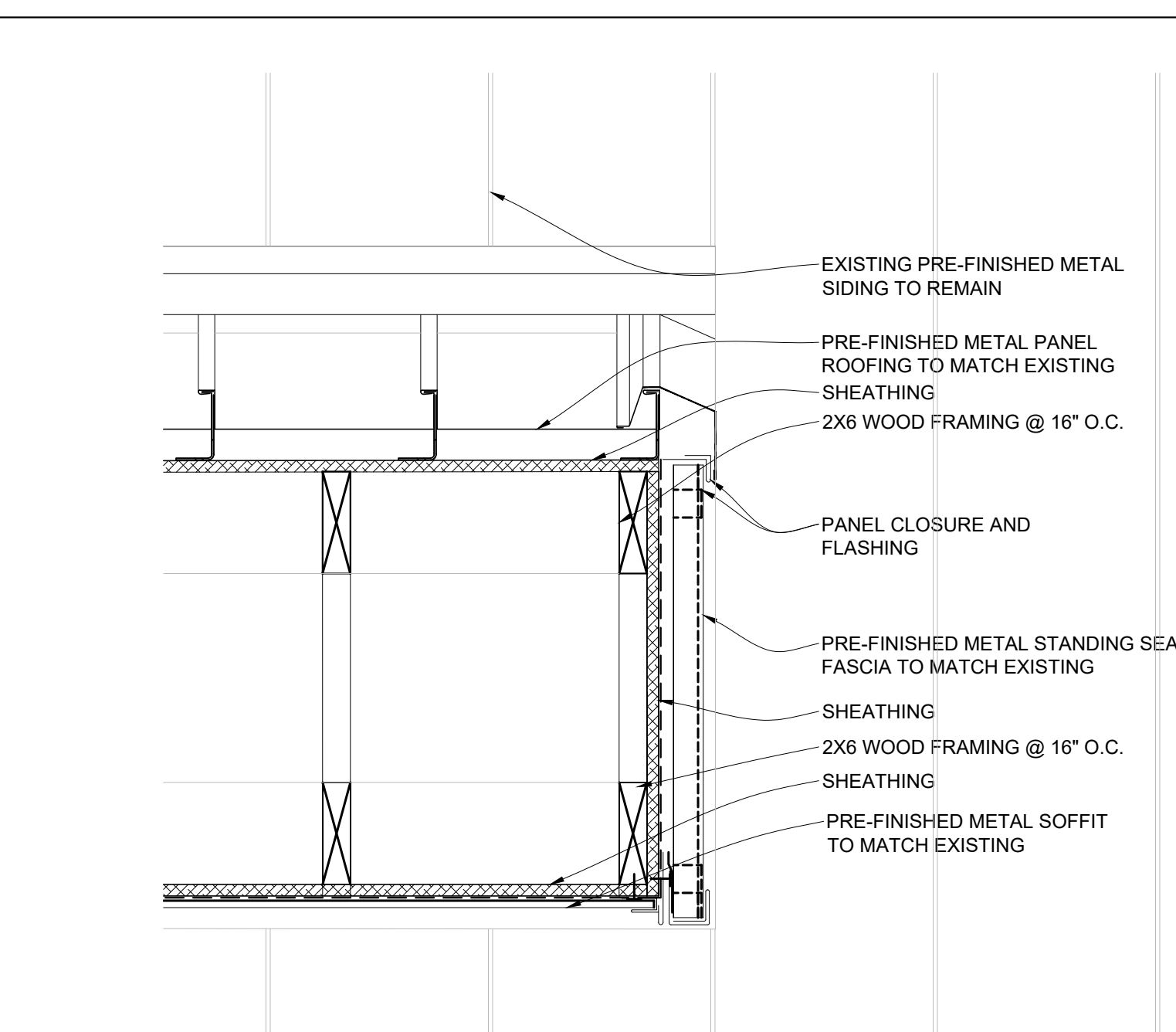
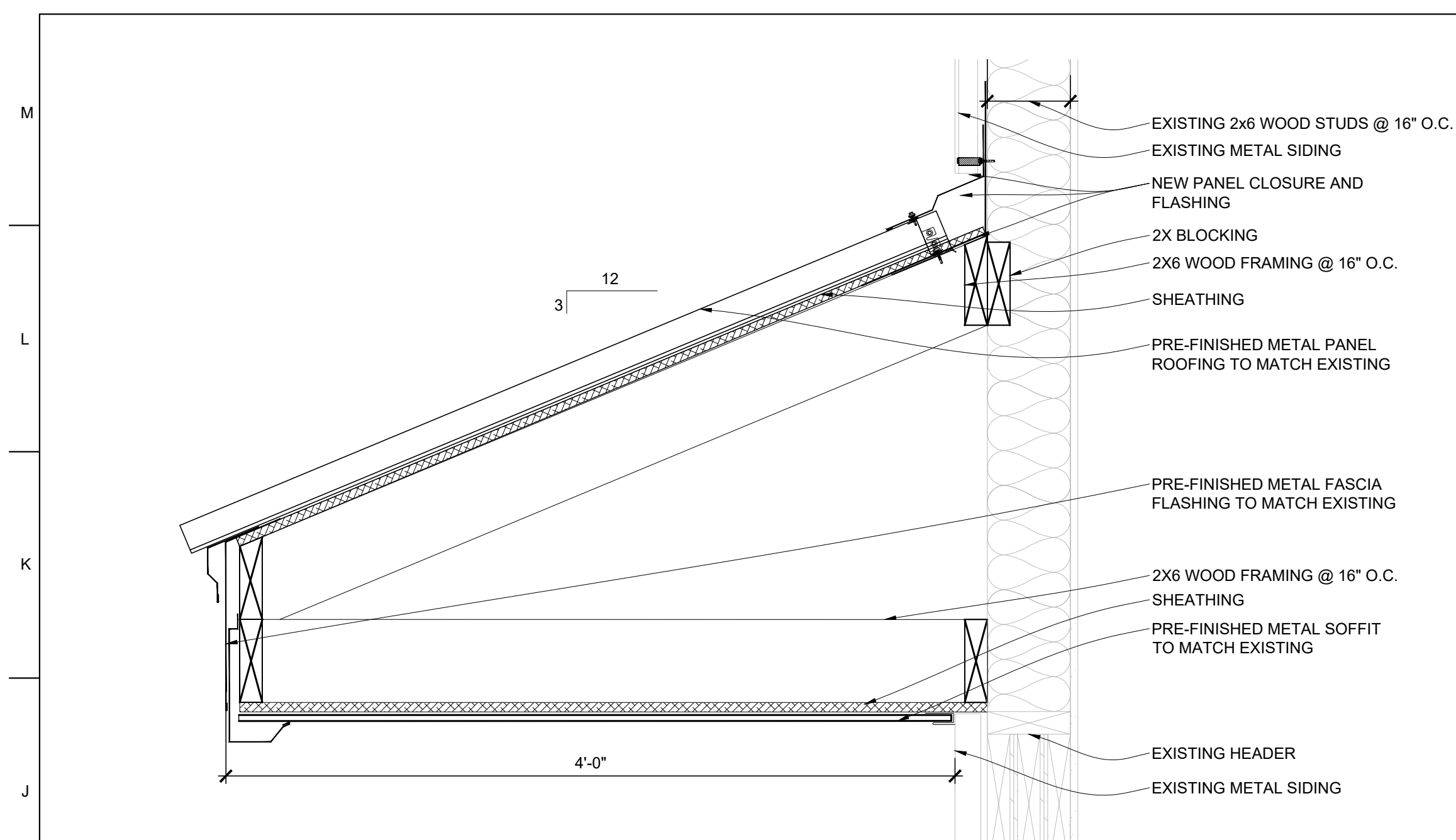
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CHECKED BY: EM _____
DESIGNED BY: EM _____

SHEET TITLE:
ROOF PLAN

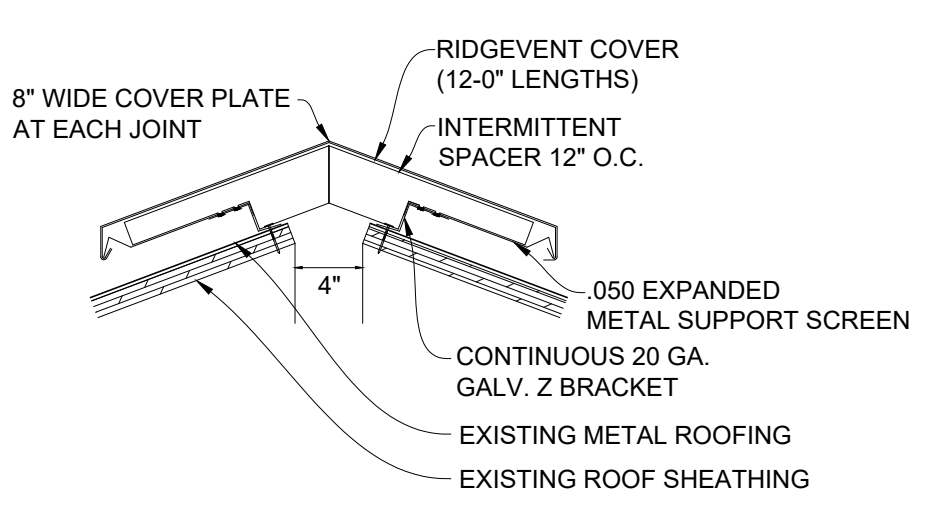
SHEET NUMBER:

A-103
12 OF 23 SHEETS
02/27/2023



L11 F7
A103

RIDGE VENT DETAIL
SCALE: 1-1/2" = 1'-0"



J11 E6
A103

RIDGE VENT DETAIL
SCALE: 1-1/2" = 1'-0"

GENERAL ELEVATION NOTES

1. SEE WALL SECTIONS FOR ADDITIONAL DETAILS, MATERIALS, NOTES, AND DIMENSIONS.
2. SEE SITE PLAN FOR EXACT FINISH GRADE ELEVATIONS.
3. SEE SITE PLAN FOR SIDEWALKS & SLABS, DETAILS, LOCATIONS AND DIMENSIONS.

GENERAL BUILDING SECTION NOTES

1. SEE FINISH SCHEDULE FOR ALL FINISHES AND CEILING HEIGHTS.
2. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
3. VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
4. SEE DOOR AND WINDOW SCHEDULES FOR ALL DOOR AND WINDOW DIMENSIONS AND DETAILS.
5. REFER TO M.E.P. DRAWINGS FOR DETAILED INFORMATION REGARDING M.E.P. SYSTEMS.

J1 B4
A201

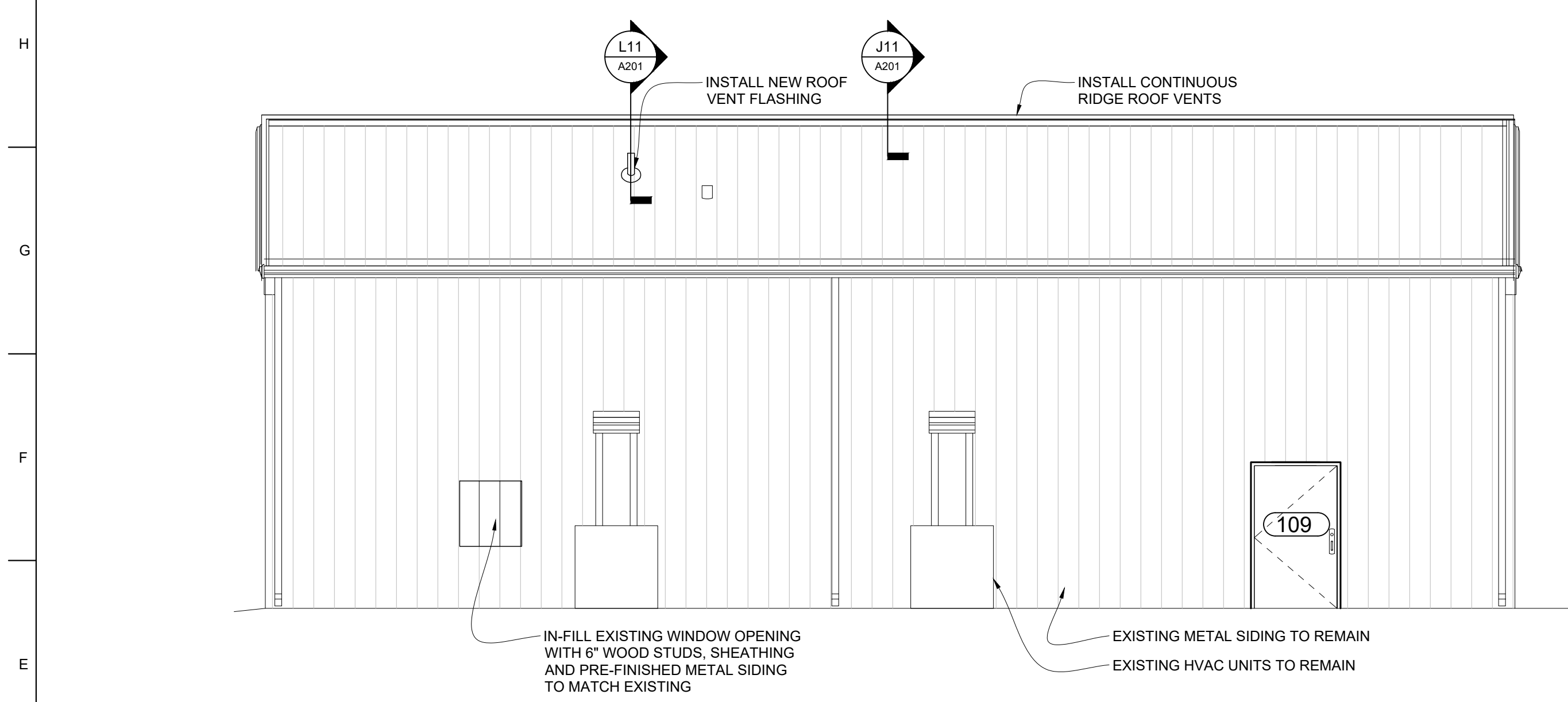
CANOPY DETAIL
SCALE: 3/4" = 1'-0"

J7 C15
A201

CANOPY DETAIL
SCALE: 3/4" = 1'-0"

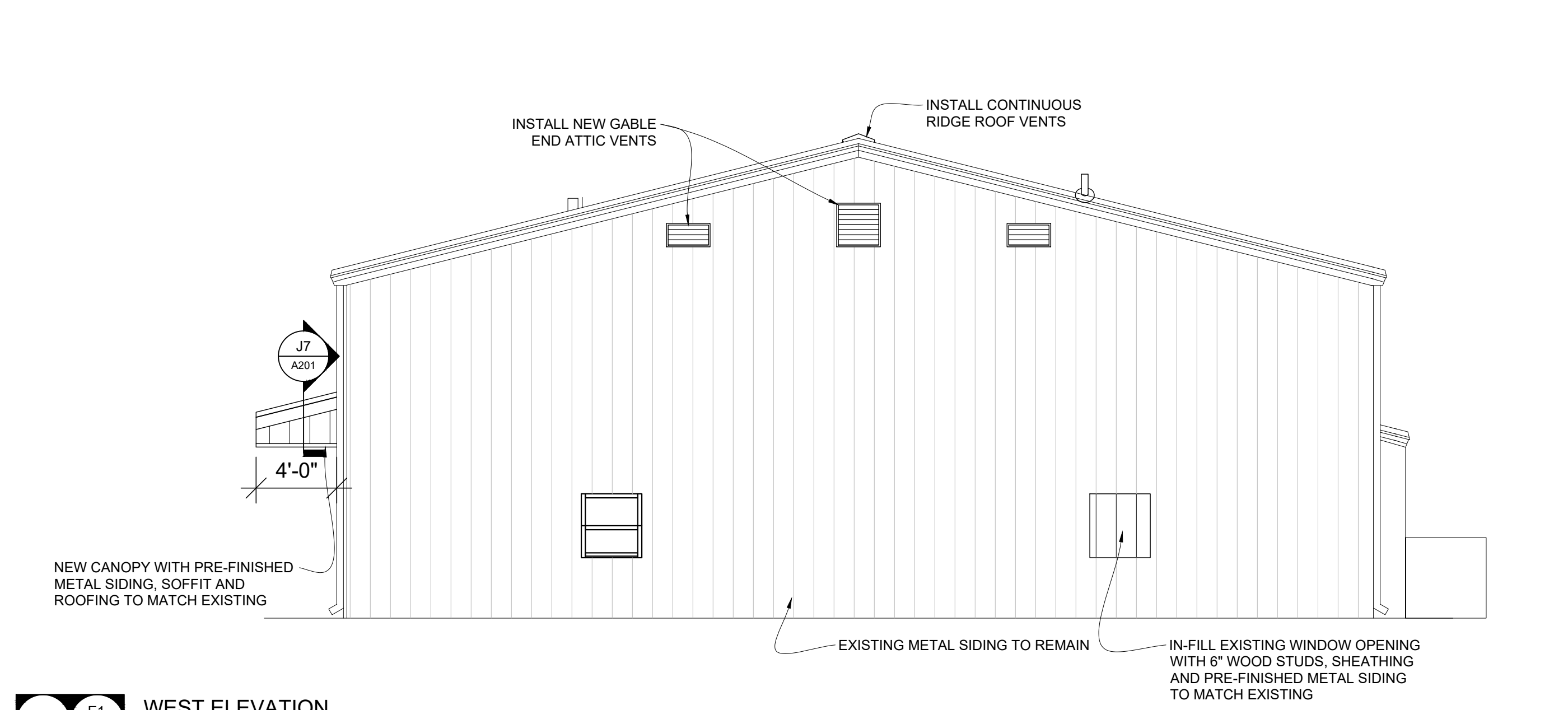
J11 E6
A103

RIDGE VENT DETAIL
SCALE: 1-1/2" = 1'-0"



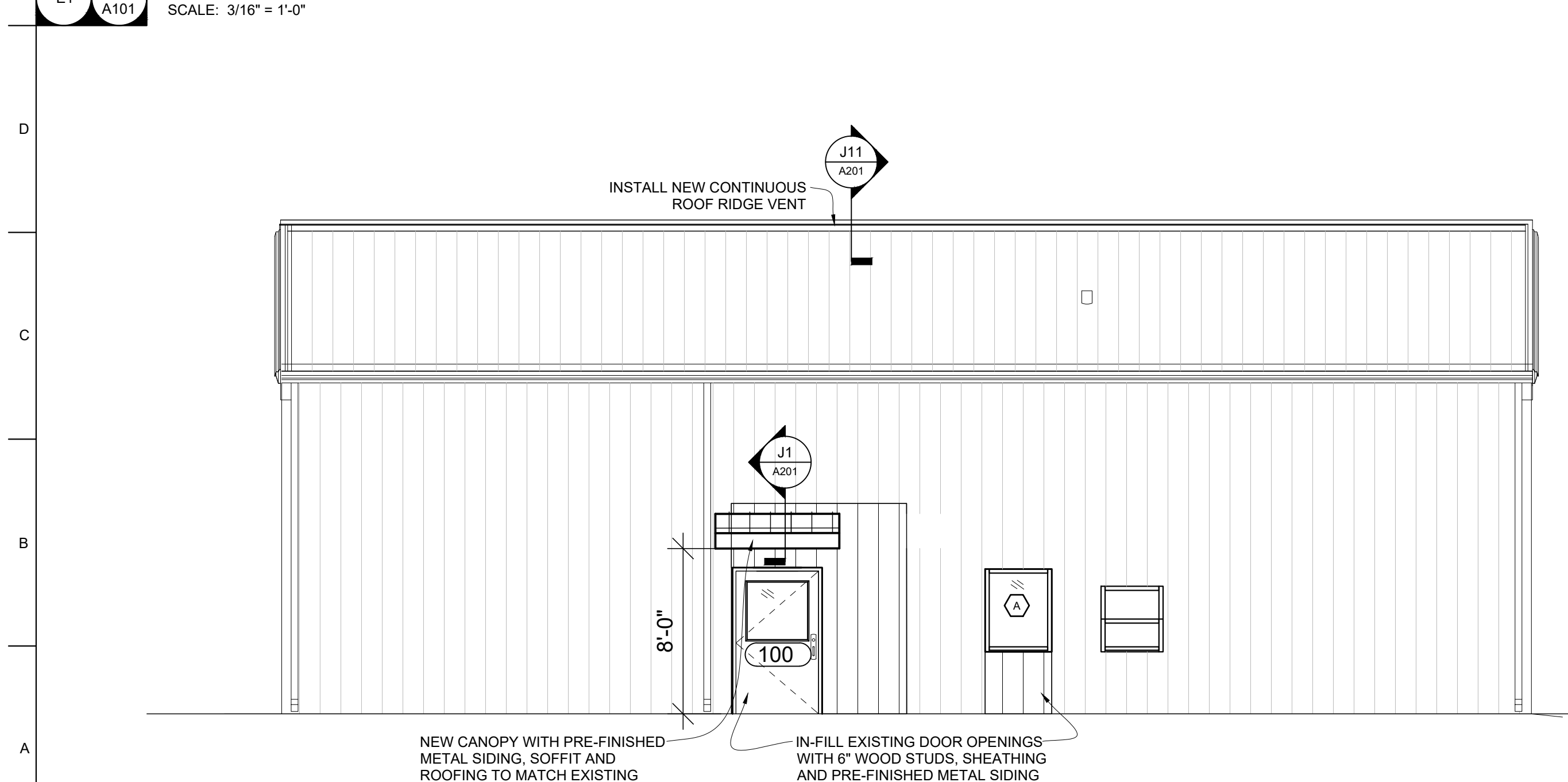
E1 A5
A101

SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



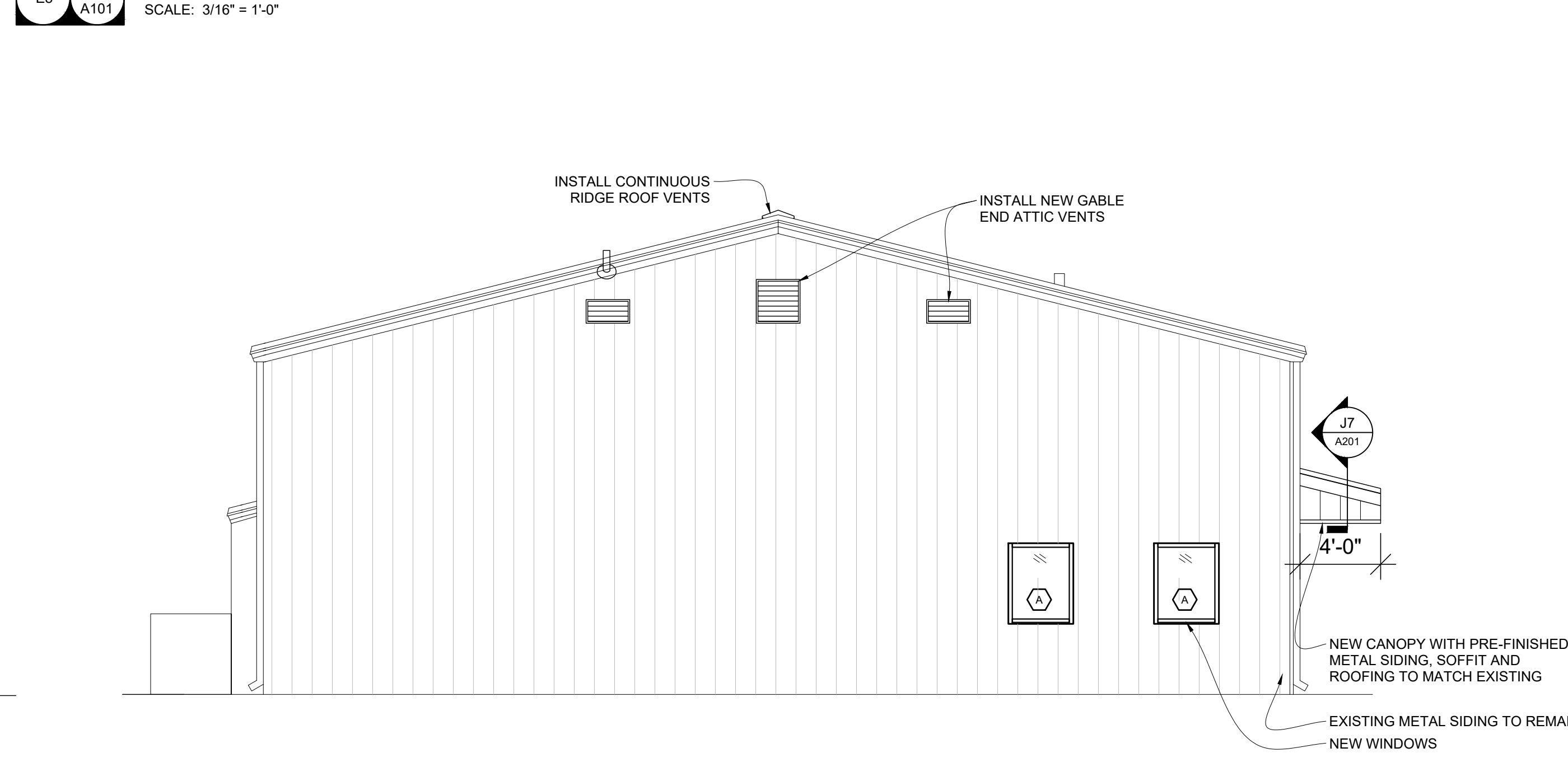
E8 E1
A101

WEST ELEVATION
SCALE: 3/16" = 1'-0"



A1 J5
A101

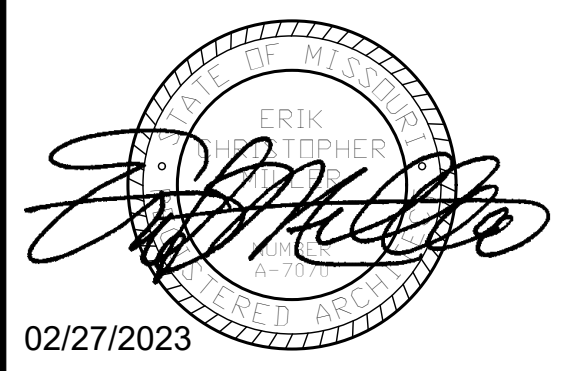
NORTH ELEVATION
SCALE: 3/16" = 1'-0"



A8 E10
A101

EAST ELEVATION
SCALE: 3/16" = 1'-0"

STATE OF MISSOURI
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DESIGNED BY: EM

SHEET TITLE:
**EXTERIOR
ELEVATIONS**

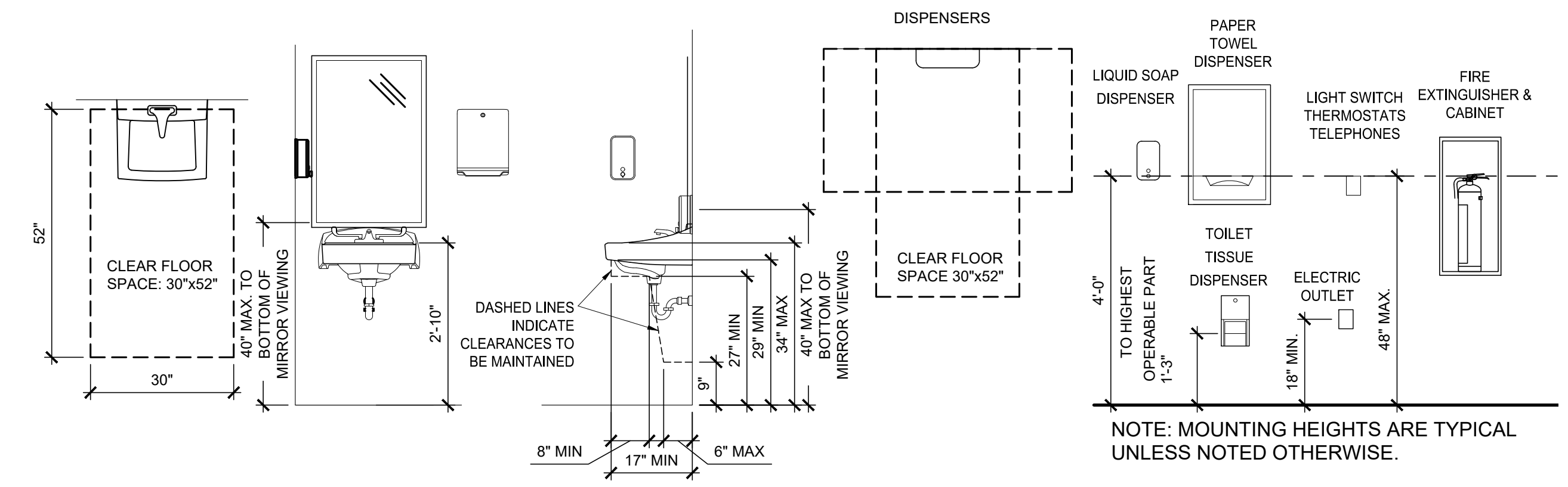
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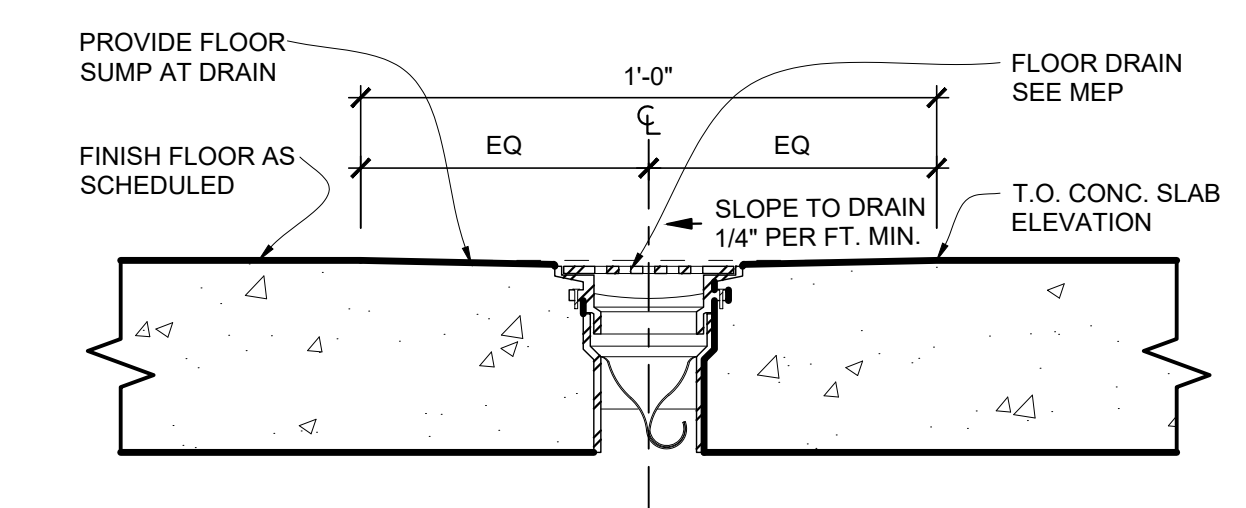
13 OF 23 SHEETS
02/27/2023

ROOM FINISH SCHEDULE										
ROOM NAME	ROOM NUMBER	FLOOR MAT'L	BASE MAT'L	CEILING MAT'L	CEILING HEIGHT	WALL				REMARKS
						NORTH	EAST	SOUTH	WEST	
ENTRY	100	S.C.	VCB-1	ACT-1	9'-0"	P-1	P-1	P-1	P-1	1.
MAIN INS. LAB.	101	S.C.	VCB-1	ACT-1	9'-0"	P-1	P-1	P-1	P-1	1.
JANITOR	102	S.C.	VCB-1	P-1	9'-0"	P-1	P-1	P-1	P-1	1.
MECHANICAL	103	S.C.	VCB-1	P-1	9'-0"	P-1	P-1	P-1	P-1	1.
TRAIN / BREAK	104	CPT-1	VCB-1	ACT-1	9'-0"	P-1	P-1	P-1	P-1	1.
RICE LAB.	105	S.C.	VCB-1	ACT-1	9'-0"	P-1	P-1	P-1	P-1	1.
PROTEIN LAB.	106	S.C.	VCB-1	ACT-1	9'-0"	P-2	P-2	P-2	P-2	1.
MEN	107	S.C.	VCB-1	ACT-1	9'-0"	P-2	P-2	P-2	P-2	1.
WOMEN	108	S.C.	VCB-1	ACT-1	9'-0"	P-1	P-1	P-1	P-1	1.
INSP. DESKS	109	S.C.	VCB-1	ACT-1	9'-0"	P-1	P-1	P-1	P-1	1.
SERVER	110	S.C.	VCB-1	P-1	9'-0"	P-1	P-1	P-1	P-1	1.
CHIEF INSP.	111	CPT-1	VCB-1	ACT-1	9'-0"	P-1	P-1	P-1	P-1	1.
SUPPORT OFFICE	112	CPT-1	VCB-1	ACT-1	9'-0"	P-1	P-1	P-1	P-1	1.

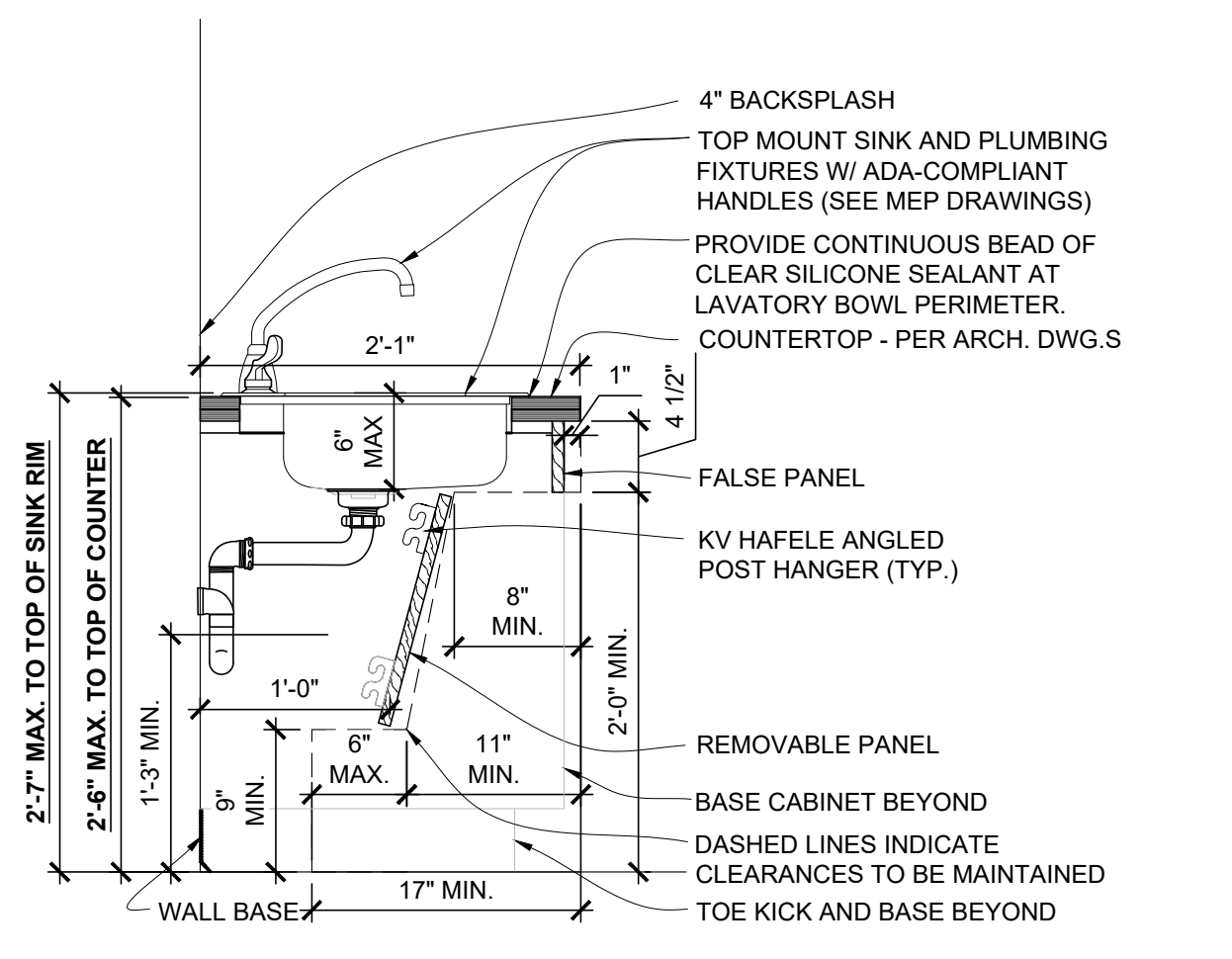
S.C.: SEALED CONCRETE
VCB-1: VINYL COVE BASE: ROPPE / BURNT UMBER 194
CPT-1: CARPET TILE FLOORING
P-1: PAINT: (WALLS) SHERWIN WILLIAMS / PURE WHITE SW 7005 / SATIN
P-2: PAINT: (RESTROOM) SHERWIN WILLIAMS / MORNING FOG 6255/ SATIN
P-4: PAINT: (DOORS AND FRAMES) SHERWIN WILLIAMS / PORPOISE SW 7047 / SEMI-GLOSS
P-5: PAINT: (CEILING) SHERWIN WILLIAMS / PURE WHITE SW 7005 / EGGSHELL
ACT-1: ACOUSTIC CEILING TILE: ARMSTRONG/ ULTIMA / 1910/ 24"X 24" with 15/16" SQUARE LAY-IN SUSPENSION SYSTEM
PL-1: PLASTIC LAMINATE: (COUNTER TOPS) WILSONART / PORCELAIN VELVET 15509
PL-2: PLASTIC LAMINATE: (CABINET FACES) WILSONART / BANNISTER OAK 7806-60
WINDOW TREATMENT: MECO SHADE/ THERMOVEIL/ 1500 SERIES/ 3% OPEN/ 1519 SILVER BIRCH



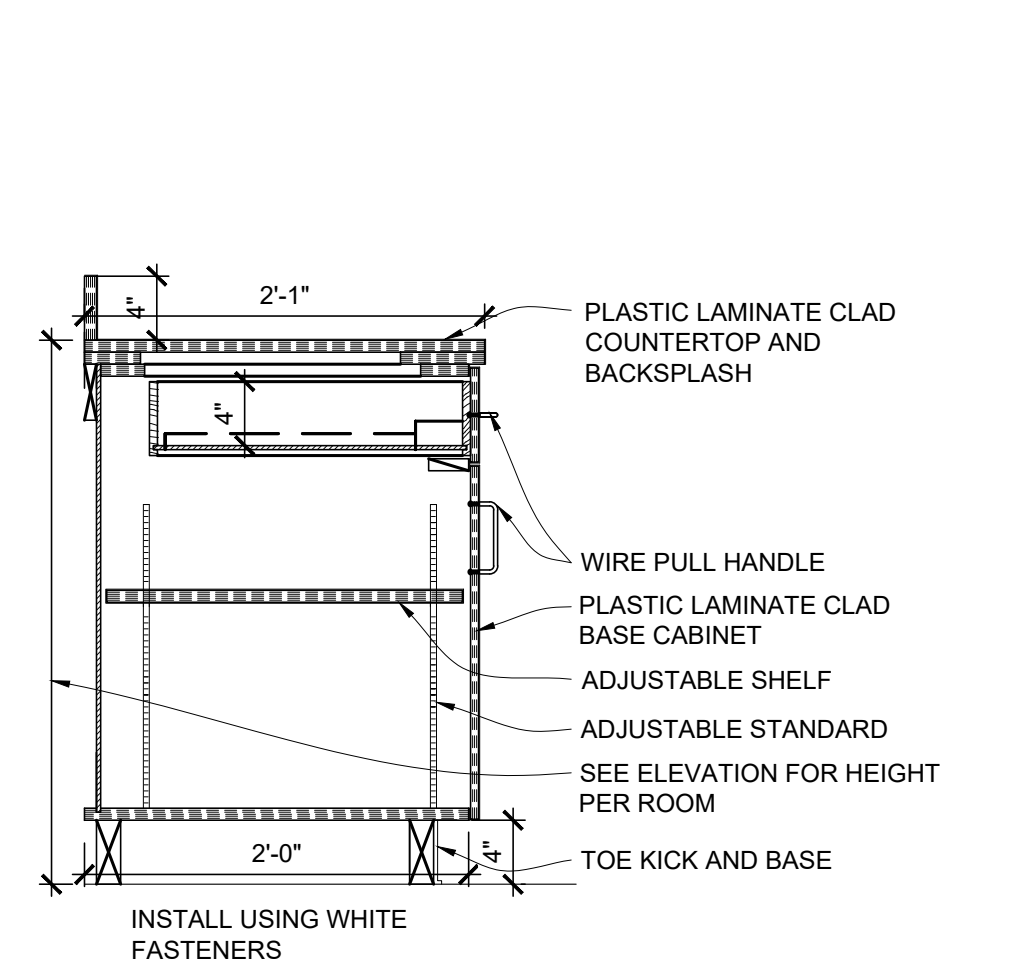
K8 TYPICAL ACCESSIBLE MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"



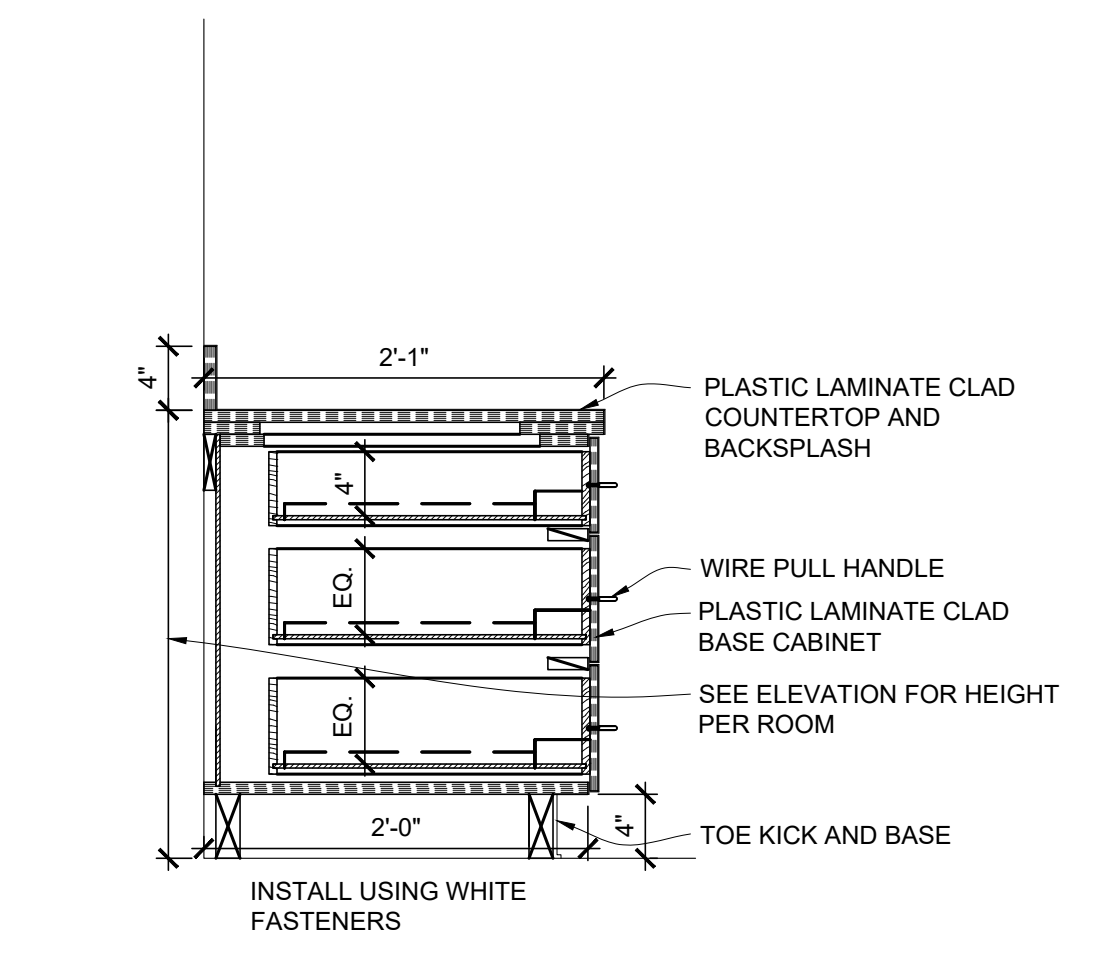
G1 FLOOR DRAIN DETAIL
SCALE: 3" = 1'-0"



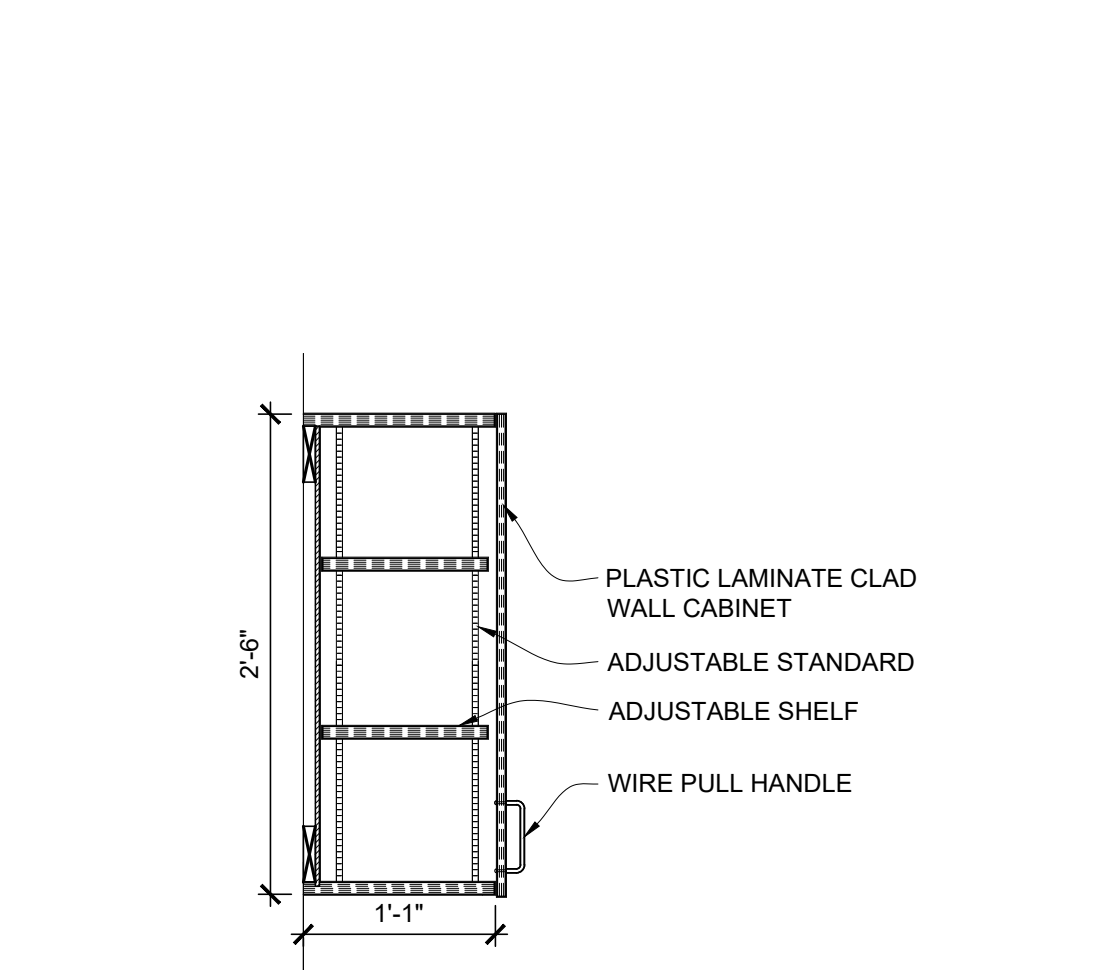
D1 CABINET DETAIL
SCALE: 1" = 1'-0"



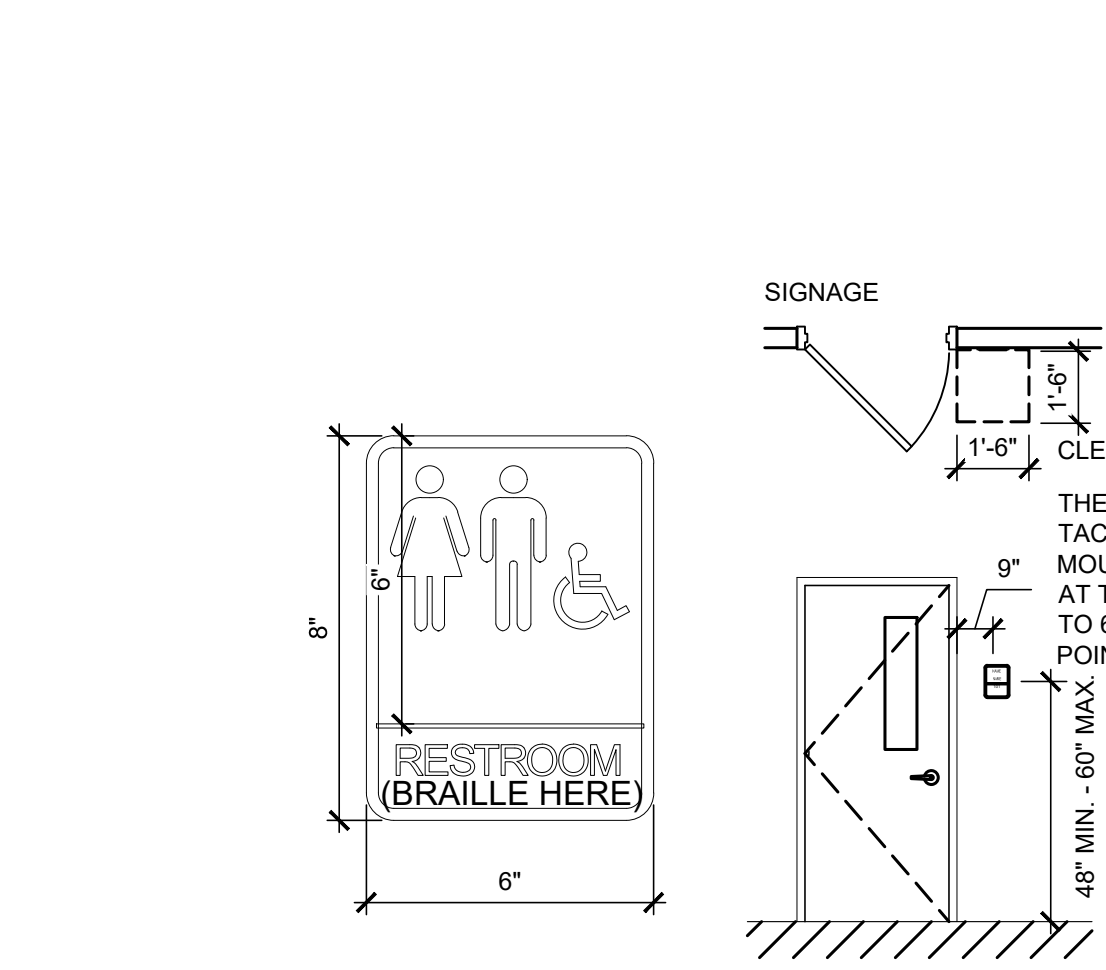
D4 CABINET DETAIL
SCALE: 1" = 1'-0"



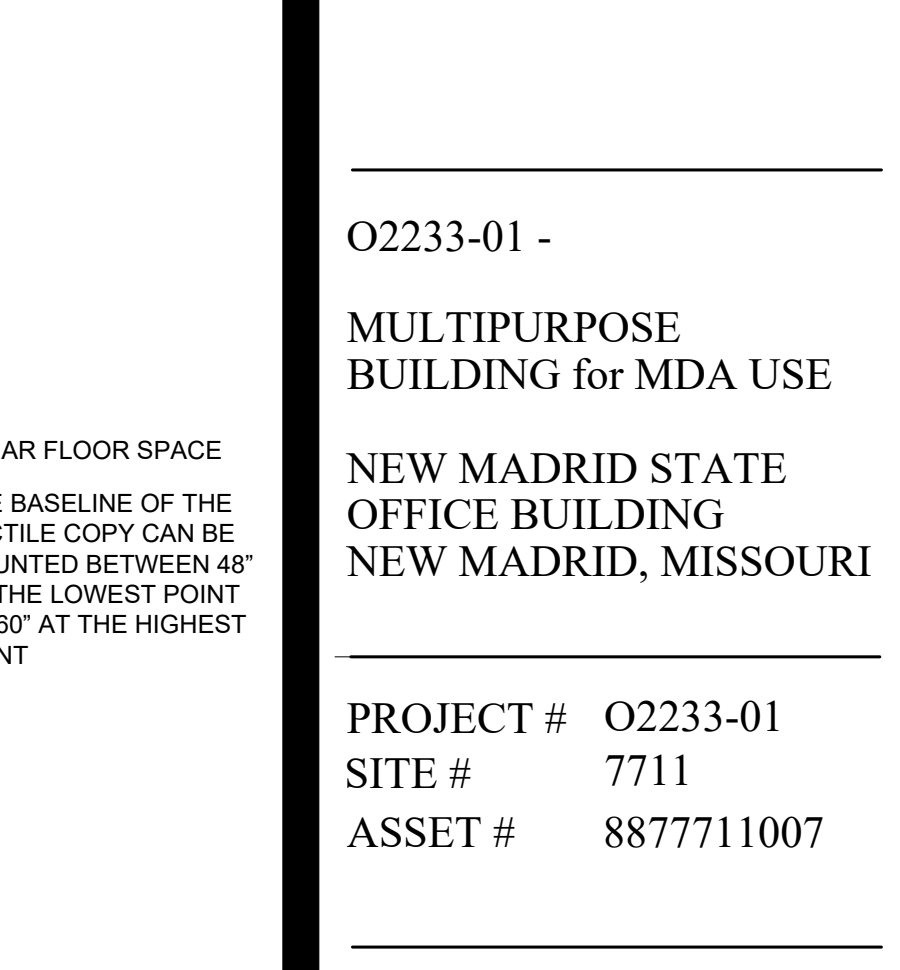
D7 CABINET DETAIL
SCALE: 1" = 1'-0"



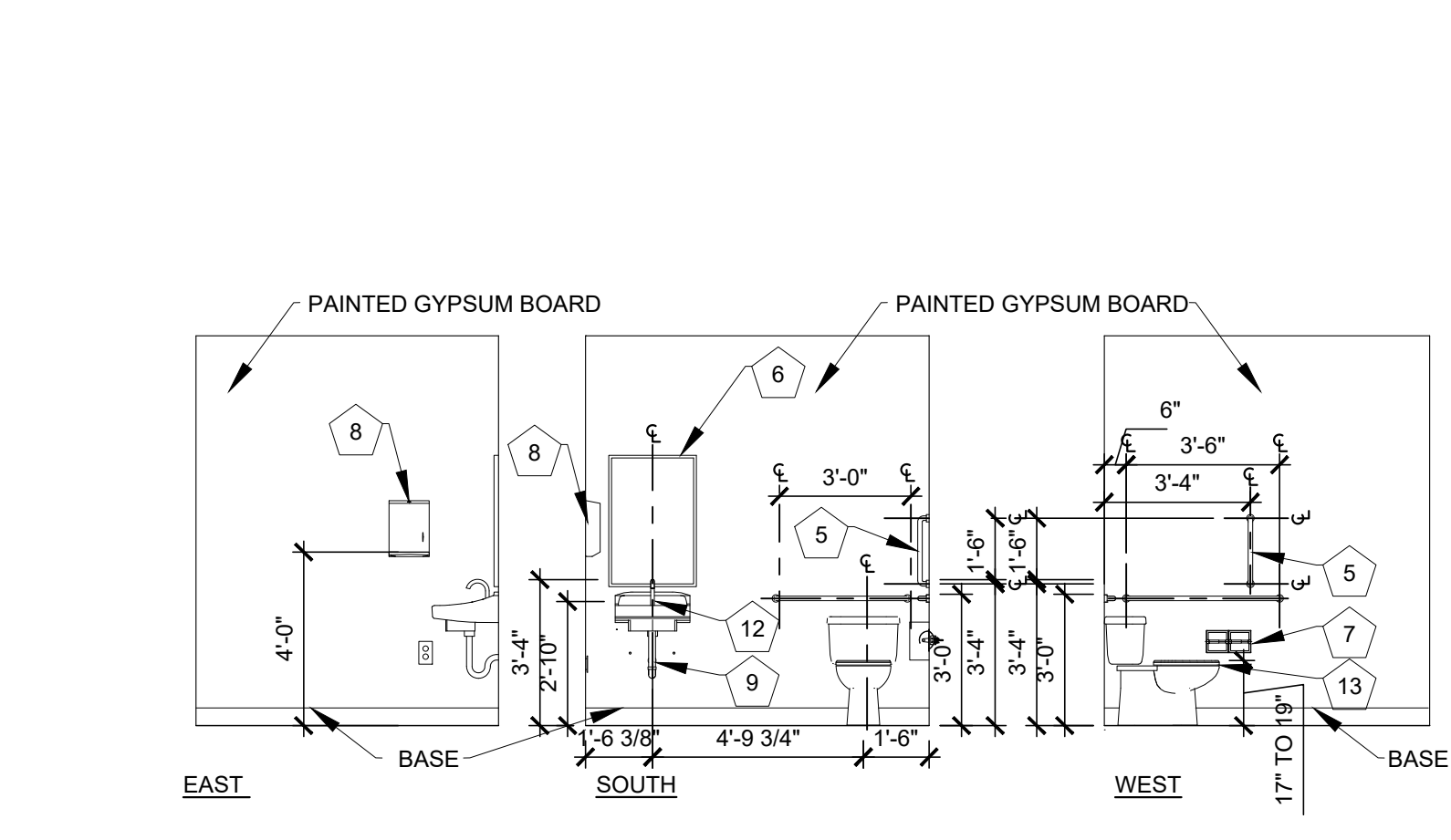
D10 CABINET DETAIL
SCALE: 1" = 1'-0"



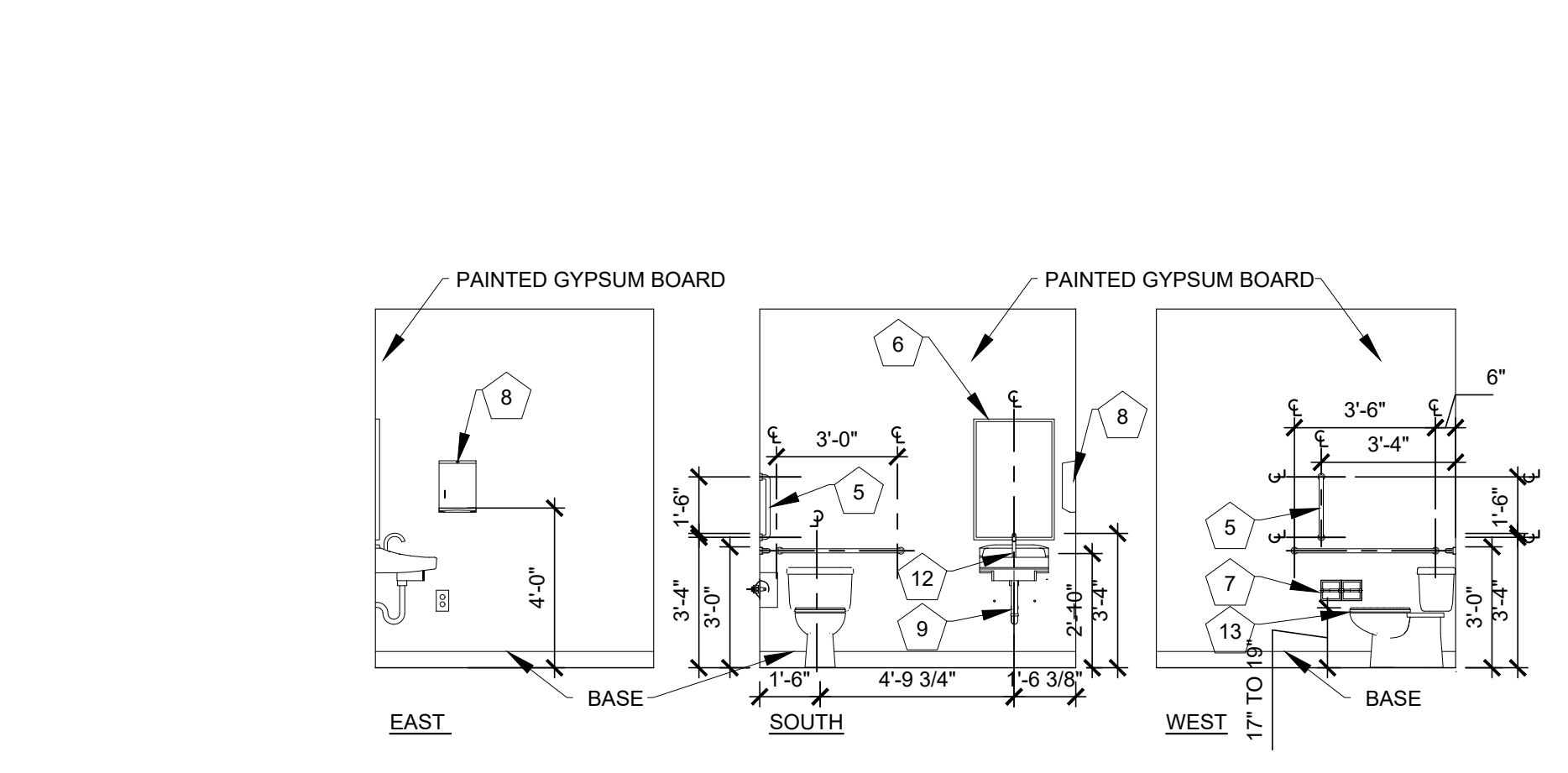
D13 SIGN DETAIL
SCALE: 3" = 1'-0"



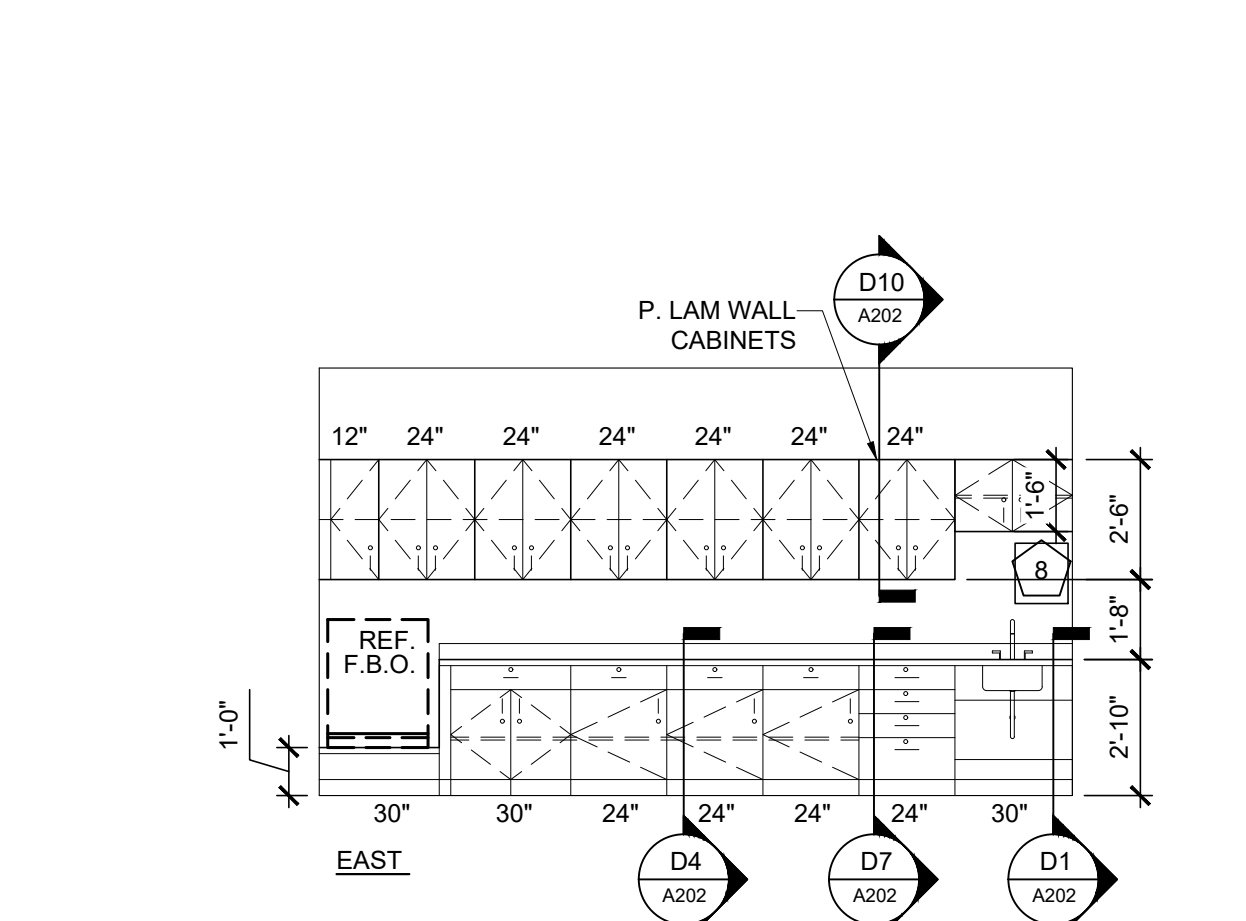
D14 SIGN MOUNTING DETAIL
SCALE: 1/4" = 1'-0"



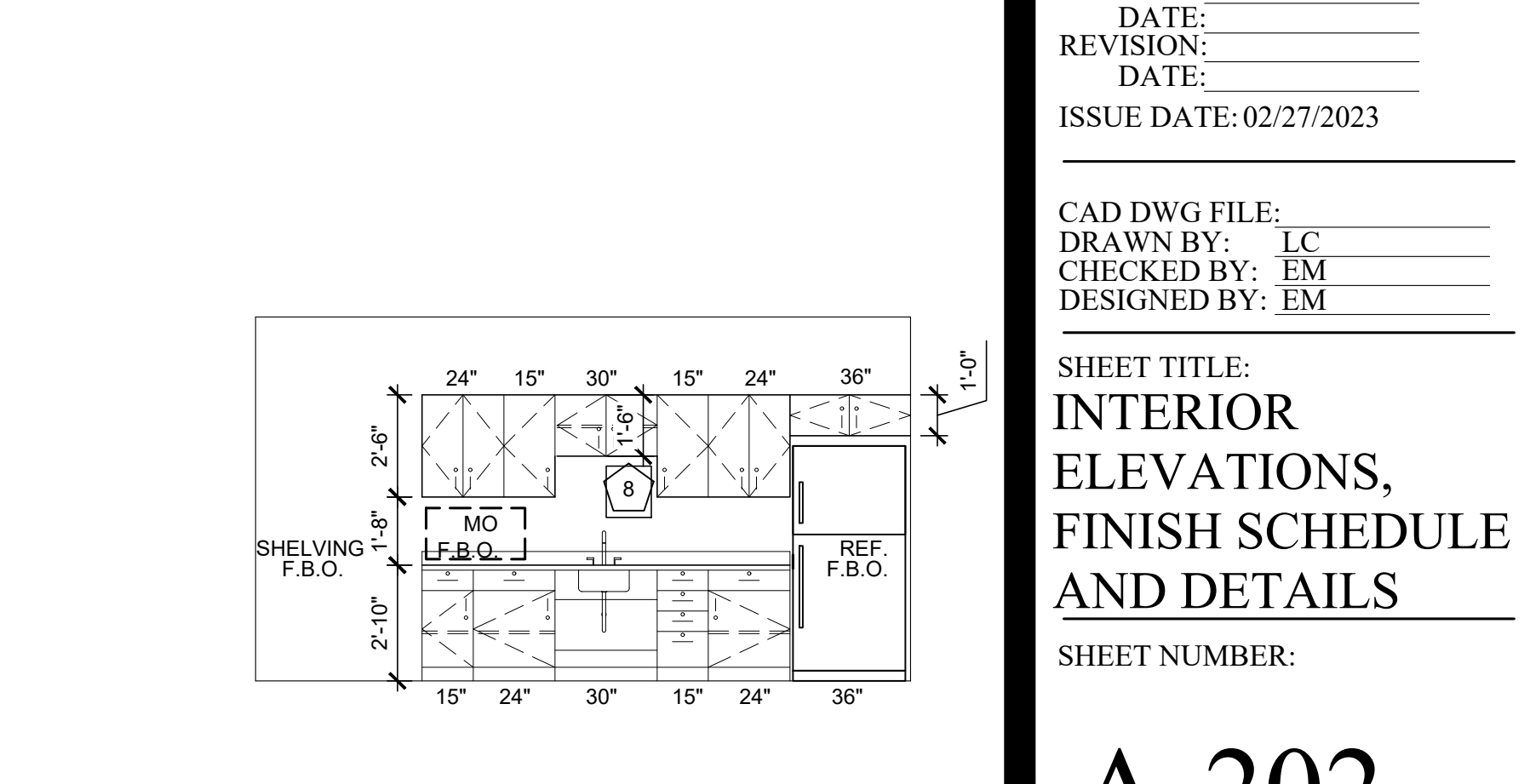
A1 **D12** **A101** INTERIOR ELEVATIONS RESTROOM 107
SCALE: 1/4" = 1'-0"



A5 **A12** **A101** INTERIOR ELEVATIONS RESTROOM 108
SCALE: 1/4" = 1'-0"

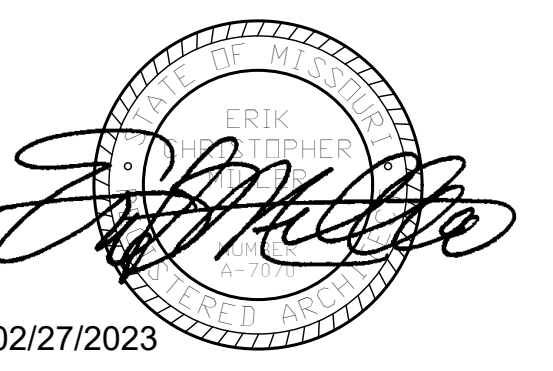


A10 **D6** **A101** INTERIOR ELEVATIONS MAIN INSPECTION LAB 101
SCALE: 1/4" = 1'-0"



A13 **D6** **A101** INTERIOR ELEVATIONS TRAINING / BREAK 104
SCALE: 1/4" = 1'-0"

STATE OF MISSOURI
MICHAEL L. PARSON,
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02/27/2023



OFFICE OF
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DESIGN AND
CONSTRUCTION

O2233-01 -
MULTIPURPOSE
BUILDING for MDA USE

NEW MADRID STATE
OFFICE BUILDING
NEW MADRID, MISSOURI

PROJECT # O2233-01
SITE # 7711
ASSET # 8877711007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 02/27/2023

CAD DWG FILE:
DRAWN BY: LC
CHECKED BY: EM
DESIGNED BY: EM

SHEET TITLE:
**INTERIOR
ELEVATIONS,
FINISH SCHEDULE
AND DETAILS**

SHEET NUMBER:

A-202


14 OF 23 SHEETS
02/27/2023

M
L
K
J
H
G
F
E
D
C
B
A

DOOR SCHEDULE				FRAME SCHEDULE					NOTE		
DOOR NO.	DOOR LEAF SIZE W X H	MATERIAL	DOOR ELEVATION	FRAME SIZE W X H			DETAILS			FIRE RATING	HARDWARE
				ALUMINUM	INSULATED HOLLOW METAL	WOOD	ALUMINUM	HOLLOW METAL	WOOD		
FIRST FLOOR											
100	4'-0" x 7'-0"	D2	X	4'-4" x 7'-2"	1	X	A11 / A601	A11 / A601	A11 / A601		1
101	4'-0" x 7'-0"	D2	X	4'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		1
102	3'-0" x 7'-0"	D1	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		2
103	3'-0" x 7'-0"	D1	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		2
104	3'-0" x 7'-0"	D2	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		3
105	3'-0" x 7'-0"	D2	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		3
106	3'-0" x 7'-0"	D2	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		3
107	3'-0" x 7'-0"	D1	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		4
108	3'-0" x 7'-0"	D1	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		4
109	3'-0" x 7'-0"	D1	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		5
110	3'-0" x 7'-0"	D1	X	3'-4" x 7'-2"	1	X	A11 / A601	A11 / A601	A11 / A601		2
111	3'-0" x 7'-0"	D2	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		3
112	3'-0" x 7'-0"	D2	X	3'-4" x 7'-2"	1	X	A13 / A601	A13 / A601	A13 / A601		3

- GENERAL DOOR DETAIL NOTES**
- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
 - VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
 - LOCATE DOOR OPENINGS IN METAL STUD WALLS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 6" FROM FINISH WALL TO FINISH JAMB.
 - SEE DOOR SCHEDULE FOR DOOR DIMENSIONS AND DETAILS.

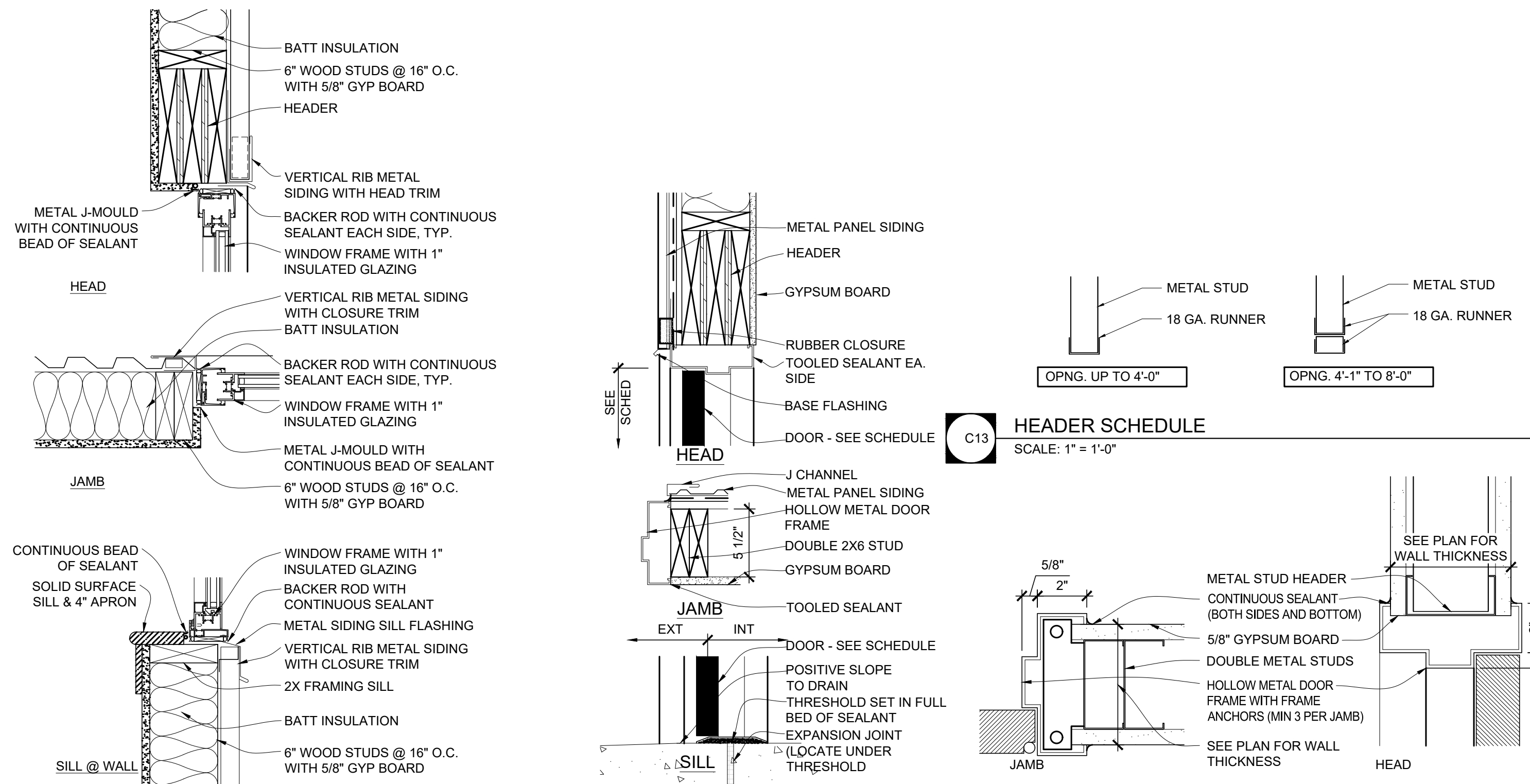
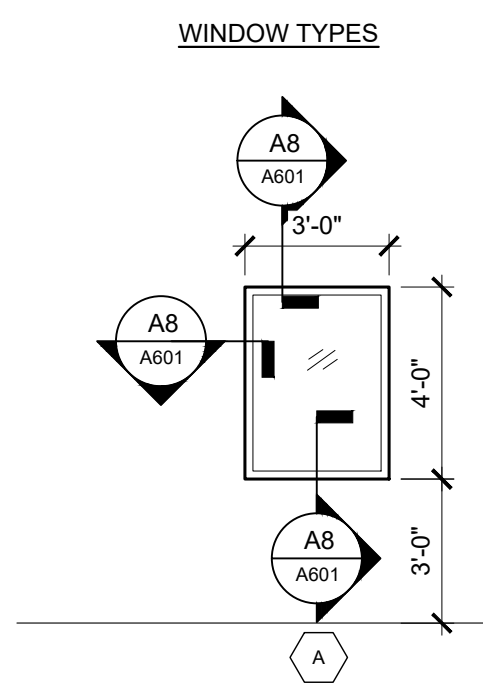
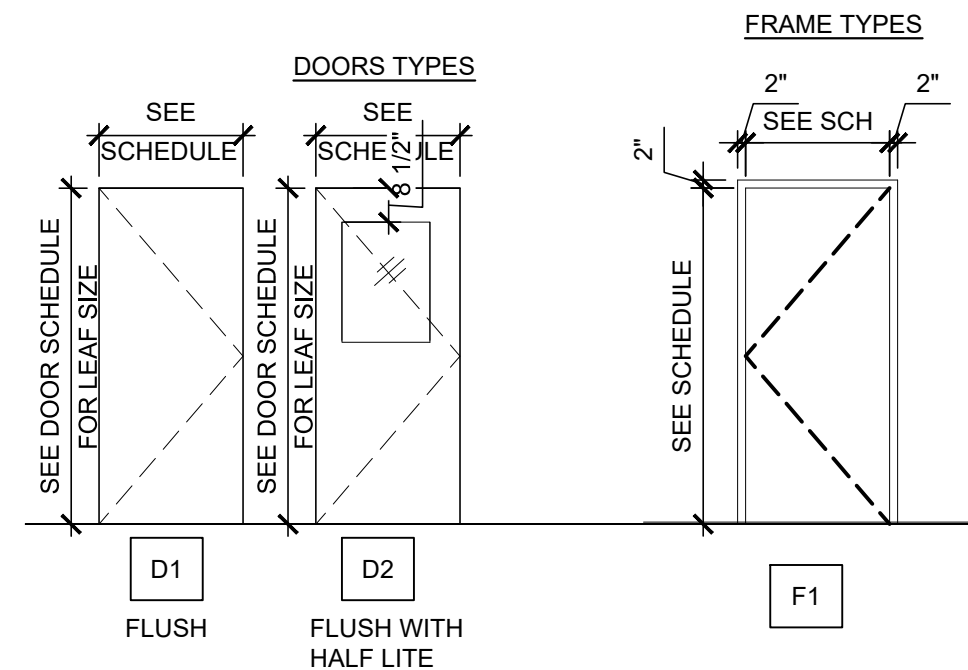
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MICHAEL L. PARSON,
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02/27/2023



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O2233-01 -
 MULTIPURPOSE BUILDING for MDA USE
 NEW MADRID STATE OFFICE BUILDING
 NEW MADRID, MISSOURI

PROJECT # O2233-01
 SITE # 7711
 ASSET # 8877711007

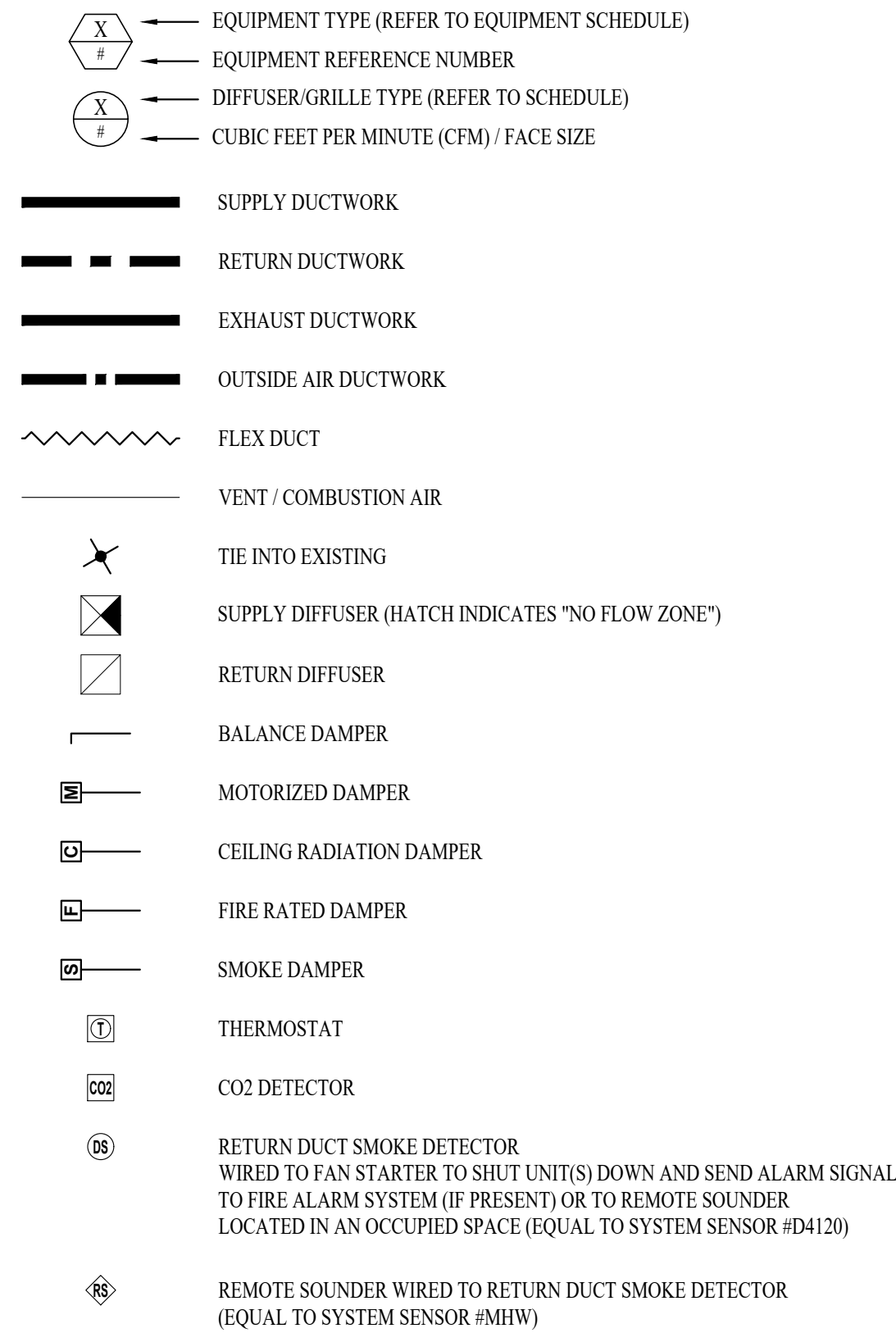
REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 ISSUE DATE: 02/27/2023

CAD DWG FILE: _____
 DRAWN BY: LC
 CHECKED BY: EM
 DESIGNED BY: EM

SHEET TITLE:
DOOR AND WINDOW SCHEDULE AND DETAILS

SHEET NUMBER:
A-601
 15 OF 23 SHEETS
 02/27/2023

HVAC PLAN SYMBOL LEGEND



HVAC PLAN GENERAL NOTES:

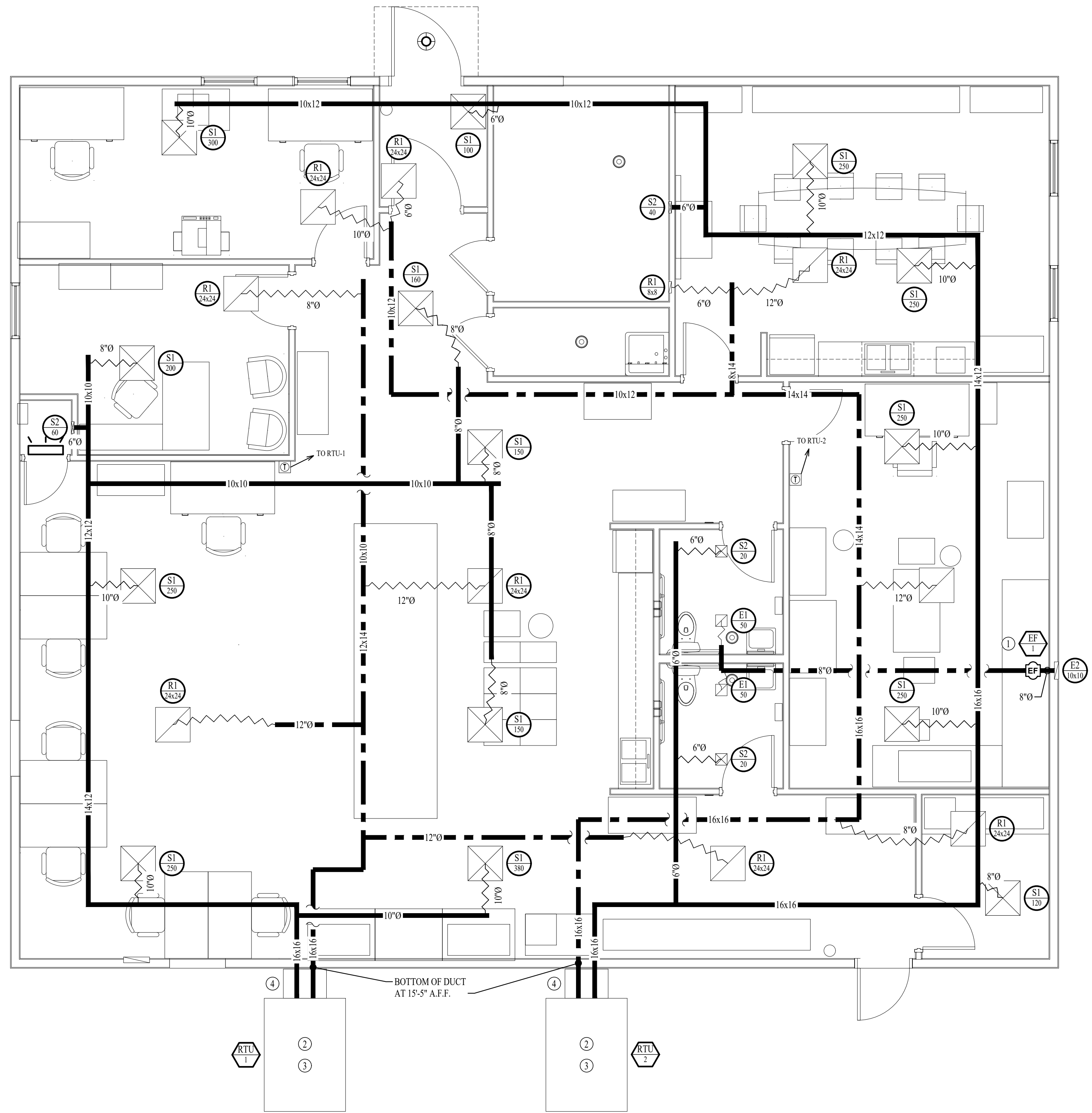
1. SEE SHEET M-501 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
2. ALL MECHANICAL EQUIPMENT INSTALLED ON ROOF MUST BE AT LEAST 24" ABOVE ROOF DECK TO ALLOW FOR FUTURE ROOF REPLACEMENT.

HVAC PLAN KEY NOTES:

- ① EF-1 TO BE CONTROLLED THRU TIME CLOCK.
- ② CONTRACTOR TO ADD OUTSIDE AIR & ECONOMIZER KIT WITH BAROMETRIC RELIEF SIZED AT 100% OF FLOW. CONTROL TO BE ADJUSTABLE FIXED POINT SET AT 65°F.
- ③ PROVIDE ALTERNATE BID TO REPLACE EXISTING GROUND MOUNTED RTU WITH NEW. SEE RTU SCHEDULE ON SHEET M501.
- ④ ELBOW SUPPLY AND RETURN DUCTWORK UP INSIDE ENCLOSURE ON OUTSIDE OF BUILDING TO ENTER ROOM ABOVE CEILING.

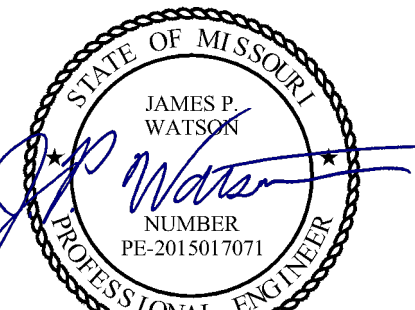
GENERAL MEP SPECIFICATIONS

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
2. THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
4. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
5. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
7. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
8. CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH THEIR WORK.
9. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE.
10. THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
11. SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFICATIONS.

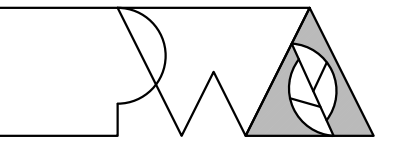


HVAC PLAN

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

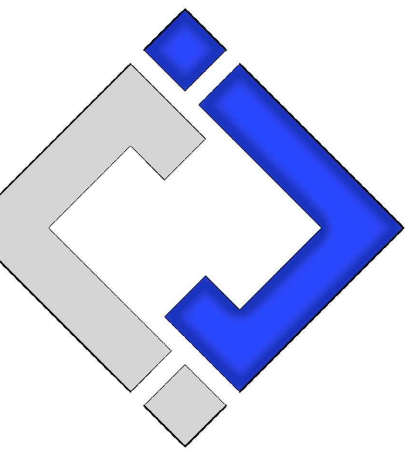


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O2233-01 -

MULTIPURPOSE
 BUILDING for MDA USE

NEW MADRID STATE
 OFFICE BUILDING
 NEW MADRID, MO

PROJECT # O2233-01
 SITE # 7711
 ASSET # 8877711007

REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 ISSUE DATE: 02/27/2023

CAD DWG FILE: J20720
 DRAWN BY: DET
 CHECKED BY: JPW
 DESIGNED BY: TAW

SHEET TITLE:
HVAC PLAN

SHEET NUMBER:

M-101

16 OF 23 SHEETS
 02 / 27 / 2023

HVAC SPECIFICATIONS

1. EQUIPMENT
 - 1.1. ALL EQUIPMENT MUST PROVIDE THE PERFORMANCE SPECIFIED ON PLANS. WHERE SPECIFIC MAKES AND MODELS ARE INDICATED ON PLAN, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER PRIOR TO PURCHASE.
 - 1.2. ALL EXTERIOR REFRIGERANT COILS TO BE PROTECTED BY FACTORY EQUIPPED HAIL GUARDS.
 - 1.3. REFRIGERANT PIPING TO BE ACR COPPER OR TYPE L COPPER.
2. DUCTWORK
 - 2.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.
 - 2.2. 26 GA. MINIMUM UP TO 16" DUCT, 24 GA. UP TO 20", 22 GA. UP TO 24", 20 GA. UP TO 28", AND 18 GA. UP TO 36".
 - 2.3. TURNING VANES TO BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES.
 - 2.4. DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER.
 - 2.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL.
 - 2.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), THE BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF.
 - 2.5.2. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), THE BALANCE DAMPER IS TO BE LOCATED SO IT IS ACCESSIBLE FROM FACE OF AIR DEVICE.
 - 2.6. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.
3. INSULATION
 - 3.1. DUCTWORK
 - 3.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC REQUIREMENTS.
 - 3.1.2. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO JOHNS MANVILLE MICROLITE WITH FSK JACKET.
4. WORKMANSHIP
 - 4.1. COORDINATE WITH OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO EQUIPMENT.
 - 4.2. ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
 - 4.3. ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB.
 - 4.4. ROOFTOP MOUNTED RTUS TO BE INSTALLED ON CURBS PER MANUFACTURER'S INSTRUCTIONS.
 - 4.5. GRADE MOUNTED RTUS, CONDENSING UNITS, AND HEAT PUMPS TO BE INSTALLED ON 4" REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A MANUFACTURER APPROVED PRE-MANUFACTURED BASE.

RTU SCHEDULE - ALTERNATE #1														
TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	OA AIRFLOW MAX/MIN (CFM)	GAS HEATING		COOLING (IA: 80 DB/67 WB, OA: 95 DB)			ELECTRICAL			NOTES
						INPUT (kBtu)	OUTPUT (kBtu)	SENSIBLE (kBtu)	TOTAL (kBtu)	MIN. EFFICIENCY	VOLTS / PHASE	MCA	OCP	
RTU-1	ROOF TOP UNIT	4	SIDE DISCHARGE	1600	180	108	88	35.0	46.0	14 SEER	208/1	26.9	40	1,2,3,4
RTU-2	ROOF TOP UNIT	4	SIDE DISCHARGE	1600	180	108	88	35.0	46.0	14 SEER	208/1	26.9	40	1,2,3,4

NOTES:

1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
2. WITH FACTORY HAIL GUARD.
3. WITH FACTORY INSTALLED DISCONNECT.
4. ECONOMIZER WITH BAROMETRIC RELIEF SIZED AT 100% OF FLOW. CONTROL TO BE ADJUSTABLE FIXED POINT SET AT 65°F. ECONOMIZER TO BE IECC COMPLIANT WITH FAULT DETECTION AND NOTIFICATION.

EXHAUST FAN SCHEDULE									
TAG	EQUIPMENT TYPE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	FLOW		ELECTRICAL			NOTES
				CFM	S.P.	VOLT/PH	MCA	OCP	
EF-1	INLINE EXHAUST FAN	SOLER & PALAU	TD-SILENT	100	3/8	120/1	1	15	1,2

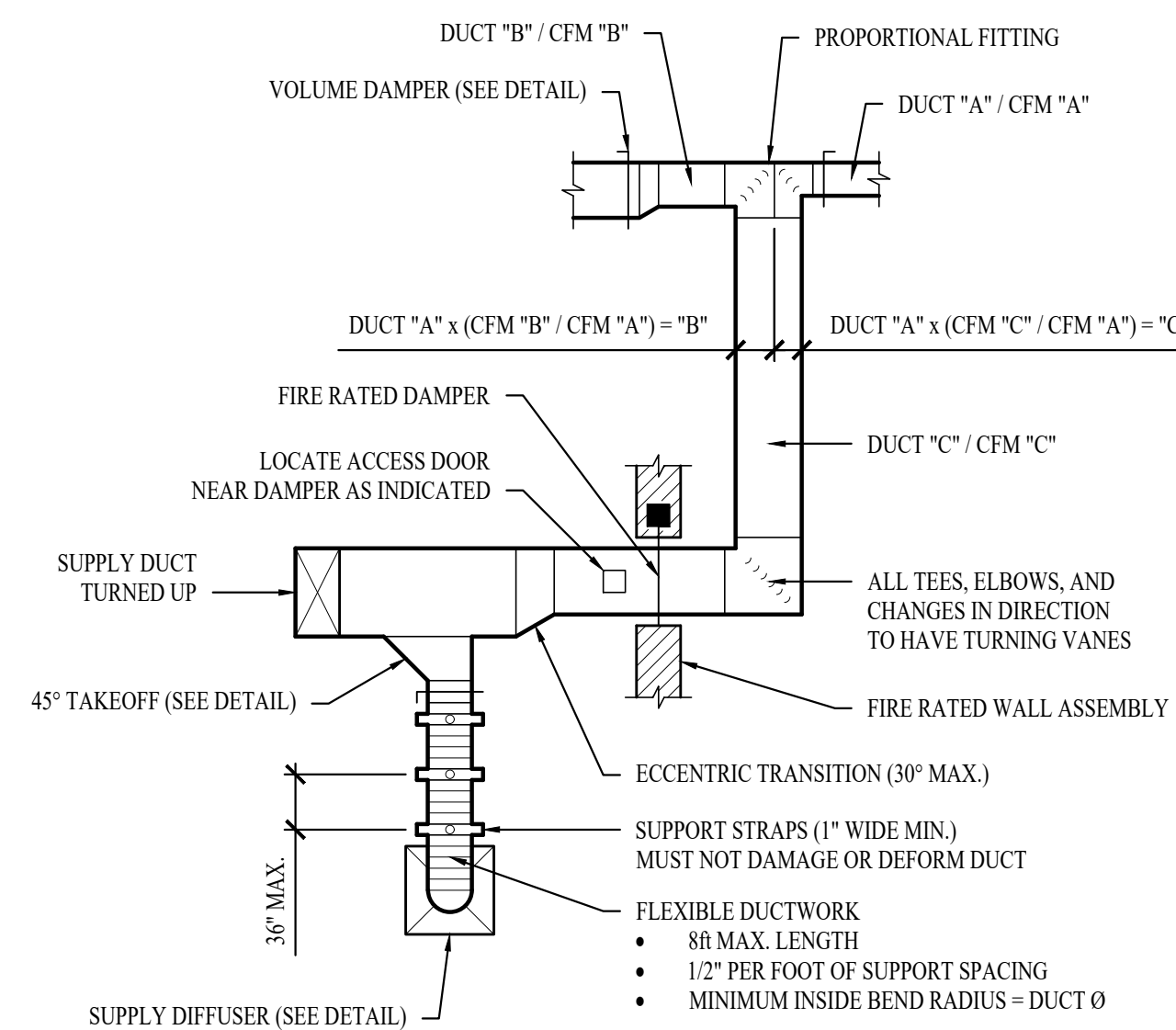
NOTES:

1. WITH BACKDRAFT DAMPER
2. WITH SPEED CONTROLLER

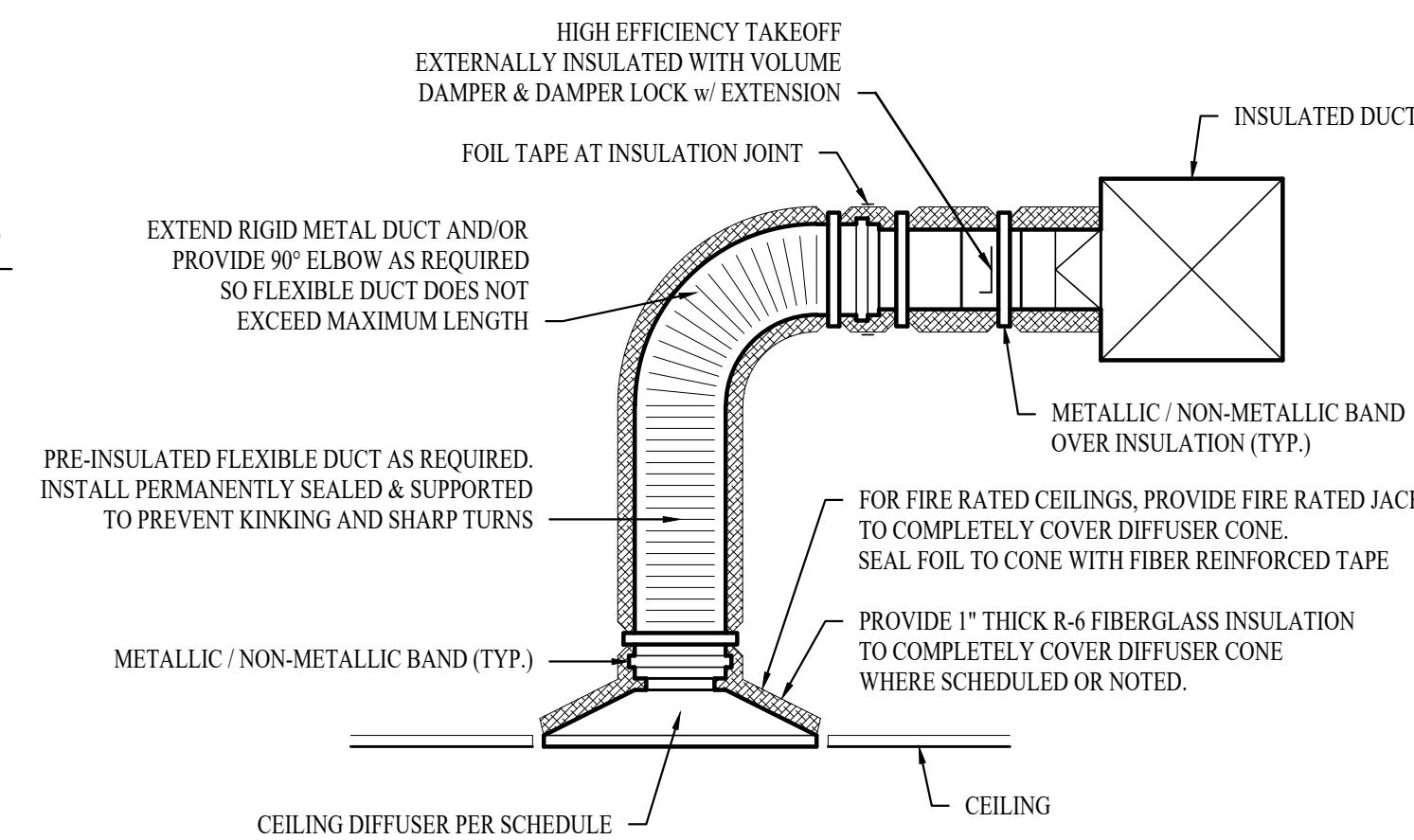
AIR DEVICE SCHEDULE						
TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR / FINISH	NOTES
S1	SUPPLY	PRICE	SPD	24x24	WHITE	SEE PLANS FOR AIRFLOW
S2	SUPPLY	PRICE	520	8x8	WHITE	SEE PLANS FOR AIRFLOW
R1	RETURN	PRICE	80	SEE PLANS	WHITE	
E1	EXHAUST	PRICE	530	8x8	WHITE	SEE PLANS FOR AIRFLOW
E2	EXHAUST	POTTORFF	EFD-445	SEE PLANS	WHITE	

NOTES:

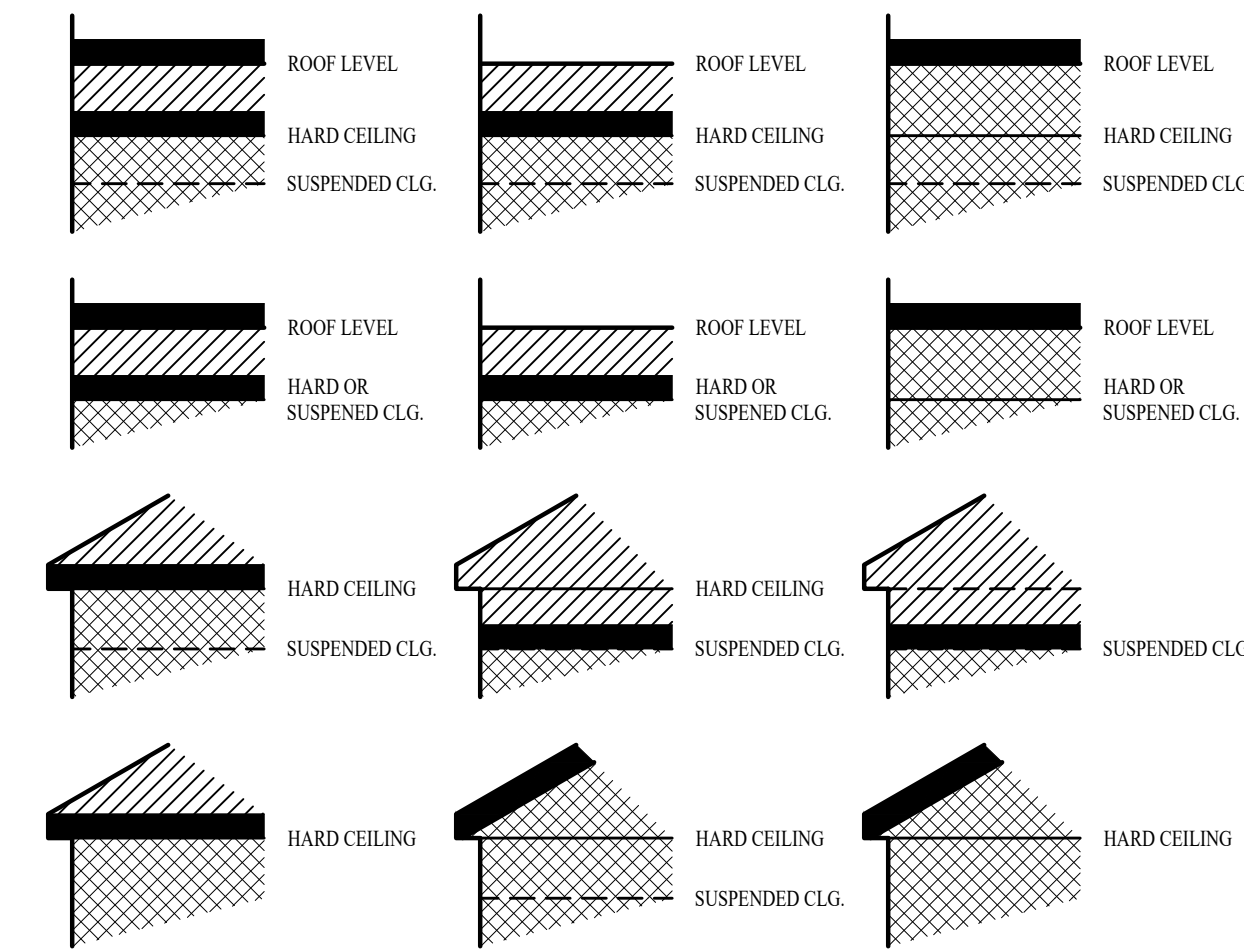
1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION



TYPICAL DUCTWORK DETAIL



TYPICAL LAY-IN DIFFUSER DETAIL



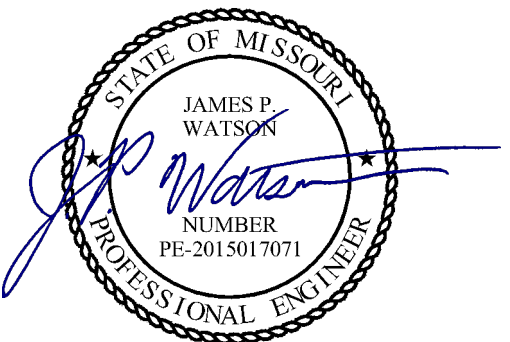
DUCT INSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

- RECTANGULAR**
- SUPPLY = 1/2" WRAP
 - RETURN = 1/2" WRAP
 - EXHAUST = NONE
 - OUTSIDE AIR = 2" WRAP
- ROUND**
- SUPPLY = 1/2" WRAP
 - RETURN = NONE
 - EXHAUST = NONE
 - OUTSIDE AIR = 2" WRAP
- SPIRAL**
- SUPPLY = NONE
 - RETURN = NONE
 - EXHAUST = NONE
 - OUTSIDE AIR = 2" WRAP

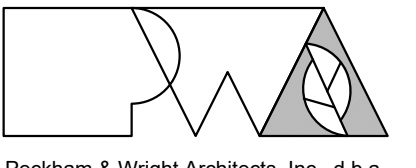
DUCT OUTSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

- RECTANGULAR**
- SUPPLY = 2" WRAP
 - RETURN = 2" WRAP
 - EXHAUST = 1/2" WRAP
 - OUTSIDE AIR = NONE
- ROUND**
- SUPPLY = 2" WRAP
 - RETURN = 2" WRAP
 - EXHAUST = 1/2" WRAP
 - OUTSIDE AIR = NONE
- SPIRAL**
- SUPPLY = 2" WRAP
 - RETURN = 2" WRAP
 - EXHAUST = 1/2" WRAP
 - OUTSIDE AIR = NONE

TYPICAL BUILDING INTERIOR DUCT INSULATION DIAGRAM

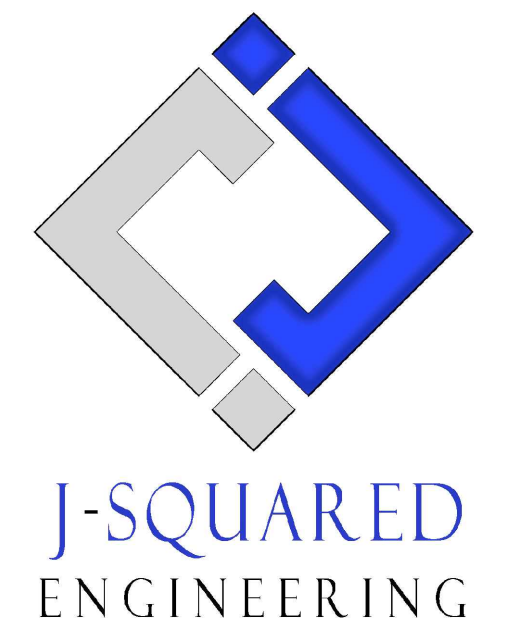


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O2233-01 -

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NEW MADRID STATE
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NEW MADRID, MO

PROJECT # O2233-01
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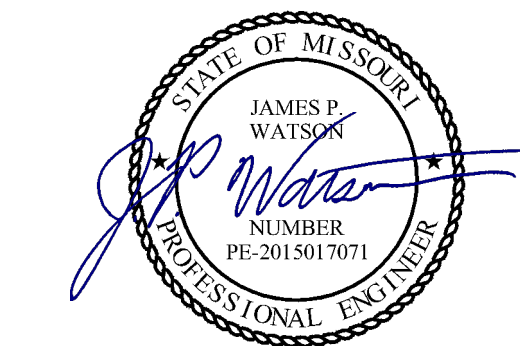
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DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: TAW

SHEET TITLE:
**HVAC DETAILS &
SCHEDULES**

SHEET NUMBER:

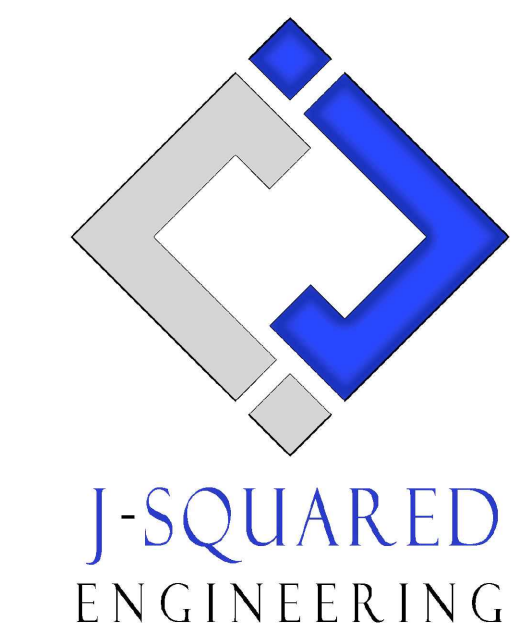
M-501

17 OF 23 SHEETS
02 / 27 / 2023



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CAD DWG FILE: J20720
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: TAW

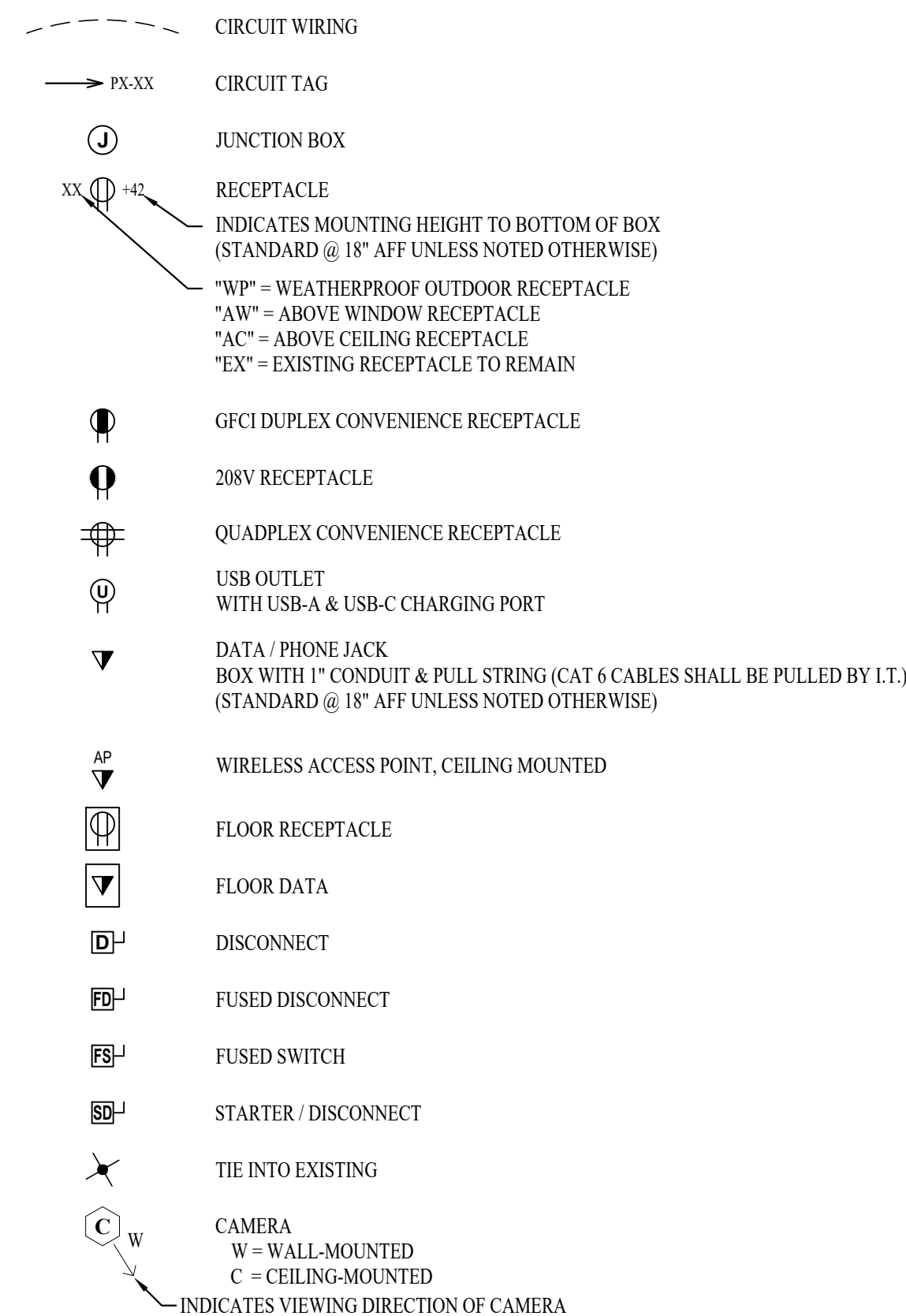
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POWER PLAN

SHEET NUMBER:

E-101

18 OF 23 SHEETS
02 / 27 / 2023

POWER PLAN SYMBOL LEGEND

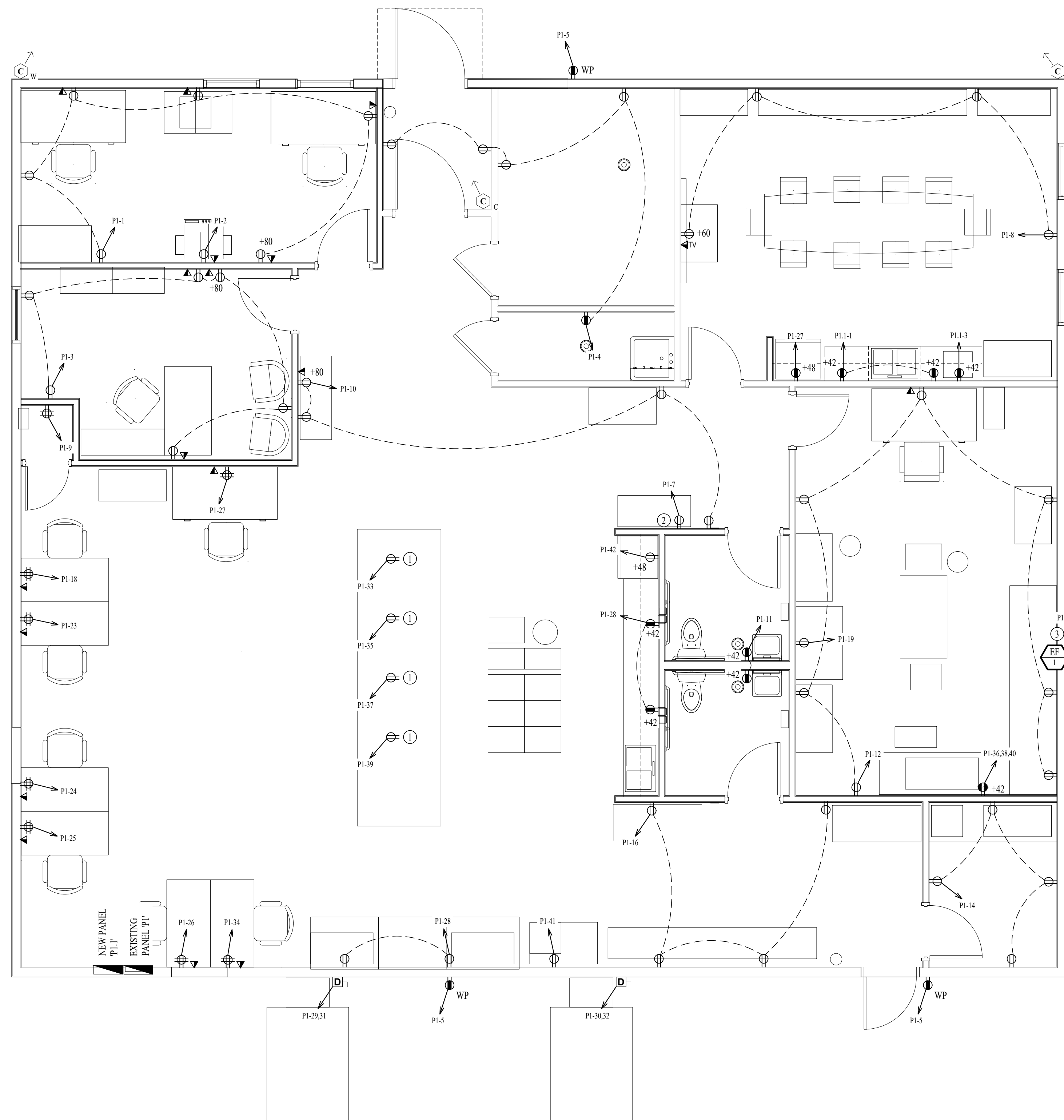


POWER PLAN GENERAL NOTES:

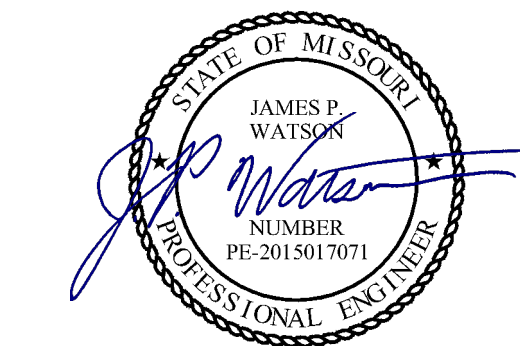
1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

POWER PLAN KEY NOTES:

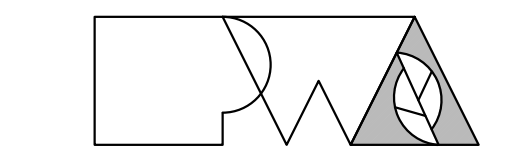
- RECEPTACLE IN CABINET. ROUTE CONDUIT TIGHT TO CABINET DIVIDERS.
- COORDINATE EXACT LOCATION OF RECEPTACLES FOR WATER HEATER WITH PLUMBER.
- WIRE EF-1 TO TIMECLOCK TO OPERATE DURING OCCUPIED HOURS. WIRE TO CIRCUIT P1-20.



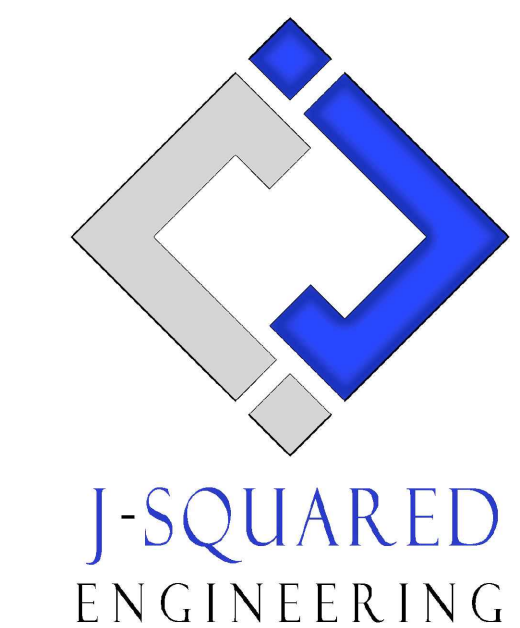
POWER PLAN
SCALE: 1/4" = 1'-0"



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PROJECT # O2233-01
SITE # 7711
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ISSUE DATE: 02/27/2023

CAD DWG FILE: J20720
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: TAW

SHEET TITLE:
LIGHTING PLAN

SHEET NUMBER:

E-102

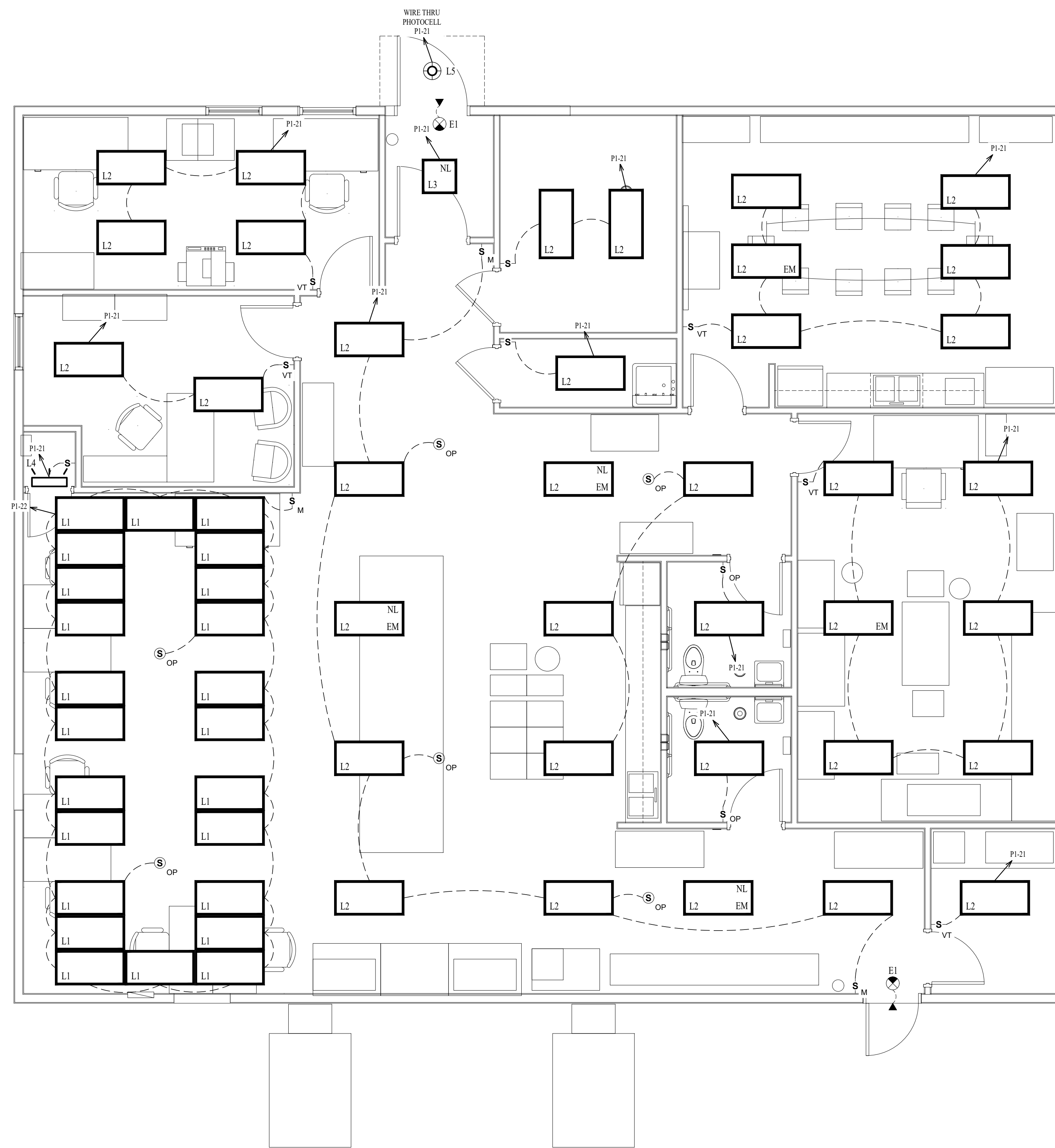
19 OF 23 SHEETS
02 / 27 / 2023

LIGHTING PLAN SYMBOL LEGEND

- XI → *XI* INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE
- EM → *EM* INDICATES EMERGENCY BATTERY BACKUP
- NL → *NL* INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
- SWITCH TYPE:
 - 3 = 3-WAY
 - 4 = 4-WAY
 - OP = PASSIVE INFRARED OCCUPANCY SENSOR
 - OU = ULTRASONIC OCCUPANCY SENSOR
 - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
 - VP = PASSIVE INFRARED VACANCY SENSOR
 - VU = ULTRASONIC VACANCY SENSOR
 - VT = DUAL-TECHNOLOGY VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH
- DIMMER SWITCH (WALL MOUNTED)
- SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- SWITCH (CEILING MOUNTED)
- SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- POWER PACK
- OCCUPANCY SENSOR**
 - AUTO FULL-ON (OR 50% IF NOTED)
 - AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
 - WITH MANUAL OVERRIDE CONTROL (IF NOTED)
- VACANCY SENSOR**
 - MANUAL FULL-ON
 - AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
 - WITH MANUAL OVERRIDE CONTROL (IF NOTED)

LIGHTING PLAN GENERAL NOTES:

1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.
3. EXISTING LIGHT FIXTURES SHALL BE SALVAGED & RETURNED TO OWNER.



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

ELECTRICAL SPECIFICATIONS

1. GENERAL
 - 1.1. THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
 - 1.2. ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER.
 - 1.3. PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
 - 1.4. PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
2. MATERIALS
 - 2.1. DEVICES
 - 2.1.1. CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS. DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20 AMP, EQUAL TO LEVITON CR20.
 - 2.1.2. TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS120-2
 - 2.1.3. DIMMER SWITCHES SHALL BE TESTED WITH FIXTURES AND LAMPS FOR COMPATIBILITY.
 - 2.2. EMERGENCY LIGHTING
 - 3.1. THE BRANCH CIRCUIT FEEDING THE EMERGENCY FIXTURE SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.

LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
L1	METALUX	2GR832	3-LAMP 2x4 T8 LIGHT	ACT GRID	5400	6500	95	120	54	WITH (3) NORTHLUX T8 LAMPS, MODEL-4024.65
L2	METALUX	24FP4740C	2x4 LED FLAT PANEL	ACT GRID	4556	4000	80	120	41	WITH FPSURF24 MOUNTING KIT WHERE REQUIRED
L3	METALUX	22FP4240C	2x2 LED FLAT PANEL	SURFACE	4567	4000	80	120	39	WITH FPSURF24 MOUNTING KIT
L4	METALUX	2BCLED-LD4-20SL-F-UNV-L835-CD1-U	2" WALL BRACKET	WALL BRACKET	2000	3500	85	UNV	23	
L5	HALO	SMD14R-20-95-WH-E	14" ROUND SURFACE DOWNLIGHT	SURFACE	2090	4000	95	UNV	27	
E1	SURE LITES	APCH7R WITH APWR2	INTERIOR EXIT LIGHT WITH EXTERIOR REMOTE HEAD	CEILING	-	-	-	UNV	1	WITH RED LETTERS

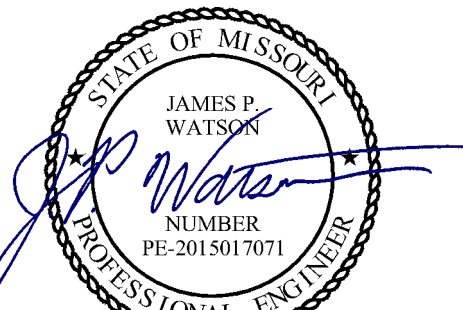
NOTES:
1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION

EXISTING PANEL 'P1' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		225A MCB		RECESSED		22,000		PHASE "A" LOAD	120.3
NEMA RATING: 1								PHASE "B" LOAD	84.8
								PHASE "C" LOAD	98.3
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	SUPPORT OFFICE RECEPTACLES	20-1	7.5	A	12	20-1	SUPPORT OFFICE PRINTER	2	
3	CHIEF INSPECTOR RECEPTACLES	20-1	7.5	B	6	20-1	LOBBY/JANITORIAL RECEPTACLES	4	
5	EXTERIOR RECEPTACLES	20-1	3	C		20-1	SPARE	6	
7	WATER HEATER	20-1	12.5	A	6	20-1	BREAK ROOM RECEPTACLES	8	
9	SERVER ROOM RECEPTACLE	20-1	3	B	9	20-1	NORTH MAIN INSPECTION LAB RECEPTACLES	10	
11	RESTROOM RECEPTACLES	20-1	3	C	10.5	20-1	RICE LAB RECEPTACLES	12	
13	SUB PANEL P1.1	60-3		A	6	20-1	PROTEIN LAB RECEPTACLES	14	
15	-	-		B	10.5	20-1	SOUTH MAIN INSPECTION LAB RECEPTACLES	16	
17	-	-		C	3	20-1	INSPECTION DESK RECEPTACLE	18	
19	INSPECTION DESK RECEPTACLE	20-1	3	A	1	15-1	EF-1	20	
21	OFFICE LIGHTING	20-1	13	B	10.8	20-1	INSPECTION DESK LIGHTING	22	
23	INSPECTION DESK RECEPTACLE	20-1	3	C	3	20-1	INSPECTION DESK RECEPTACLE	24	
25	INSPECTION DESK RECEPTACLE	20-1	3	A	3	20-1	INSPECTION DESK RECEPTACLE	26	
27	REFRIGERATOR	20-1	5	B	3	20-1	COUNTERTOP OUTLETS	28	
29	RTU-1	40-2	26.9	C	26.9	40-2	RTU-2	30	
31	/	/	26.9	A	26.9	/	/	32	
33	INSPECTION LAB WORKBENCH RECEPTACLE	20-1	1.5	B	3	20-1	INSPECTION DESK RECEPTACLE	34	
35	INSPECTION LAB WORKBENCH RECEPTACLE	20-1	1.5	C	11	20-3	RICE MILL	36	
37	INSPECTION LAB WORKBENCH RECEPTACLE	20-1	1.5	A	11	-	-	38	
39	INSPECTION LAB WORKBENCH RECEPTACLE	20-1	1.5	B	11	-	-	40	
41	INSPECTION LAB WORKBENCH RECEPTACLE	20-1	1.5	C	5	20-1	REFRIGERATOR	42	

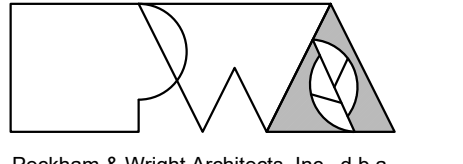
NOTES:
A. EXISTING PANEL IS CUTLER HAMMER. CONTRACTOR TO PROVIDE ALL NEW BREAKERS AND RETURN EXISTING BREAKERS TO OWNER.
B. ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C. AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL 'P1.1' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		100 MLO		RECESSED		22,000		PHASE "A" LOAD	3
NEMA RATING: 1								PHASE "B" LOAD	5
								PHASE "C" LOAD	0
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	COUNTERTOP CONF ROOM	20-1	3	A		20-1	SPARE	2	
3	CONF ROOM MICROWAVE	20-1	5	B		20-1	SPARE	4	
5				C		20-1	SPARE	6	
7				A		20-1	SPARE	8	
9				B		20-1	SPARE	10	
11				C		20-1	SPARE	12	
13				A		20-1	SPARE	14	
15				B		20-1	SPARE	16	
17				C		20-1	SPARE	18	
19				A		20-1	SPARE	20	
21				B		20-1	SPARE	22	
23				C		20-1	SPARE	24	
25				A		20-1	SPARE	26	
27				B		20-1	SPARE	28	
29				C		20-1	SPARE	30	

NOTES:
A. PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
B. ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C. AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

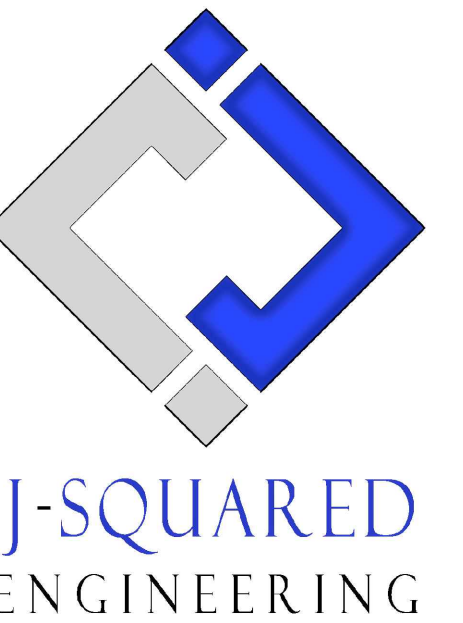


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O2233-01 -

MULTIPURPOSE
BUILDING for MDA USE

NEW MADRID STATE
OFFICE BUILDING
NEW MADRID, MO

PROJECT # O2233-01
SITE # 7711
ASSET # 8877711007

REVISION: _____
DATE: _____
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DATE: _____

ISSUE DATE: 02/27/2023

CAD DWG FILE: J20720
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: TAW

SHEET TITLE:
**ELECTRICAL
DETAILS &
SCHEDULES**

SHEET NUMBER:

E-501

20 OF 23 SHEETS
02 / 27 / 2023

SANITARY SEWER PLAN SYMBOL LEGEND

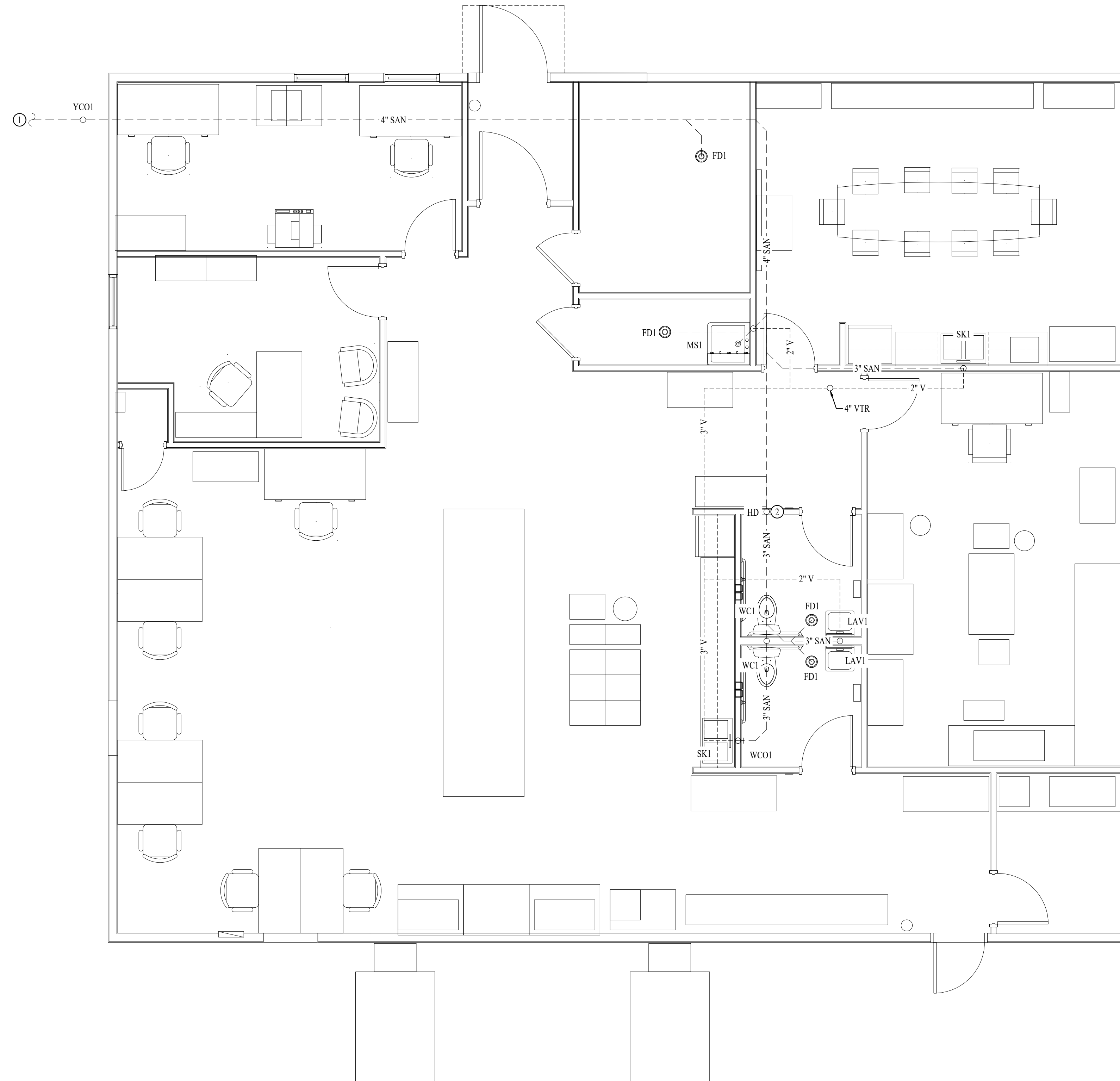
- SANITARY SEWER PIPING
- VENT PIPING
- ○ PIPING TURNED DOWN / TURNED UP
- ✕ TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

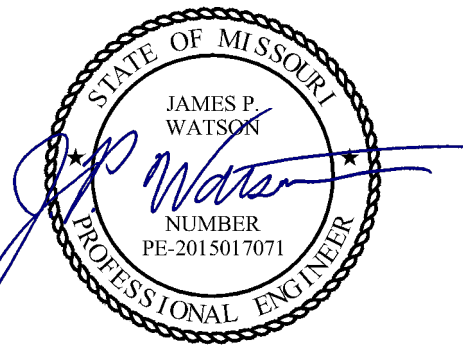
1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

SANITARY SEWER PLAN KEY NOTES:

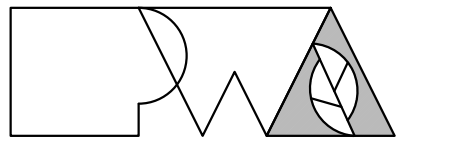
- ① SEE CIVIL FOR CONTINUATION.
- ② INSTALL HUB DRAIN (HD) IN WALL FOR DRAIN FROM WATER HEATER.



SANITARY SEWER PLAN
 SCALE: 1/4" = 1'-0"

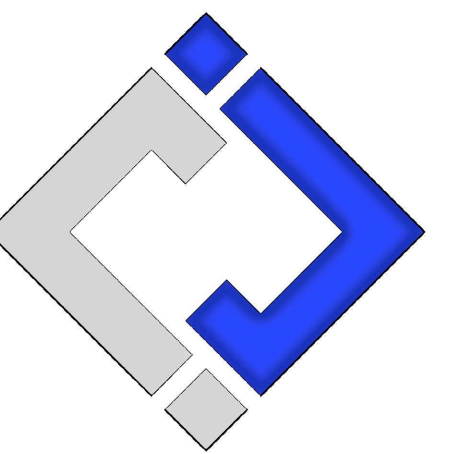


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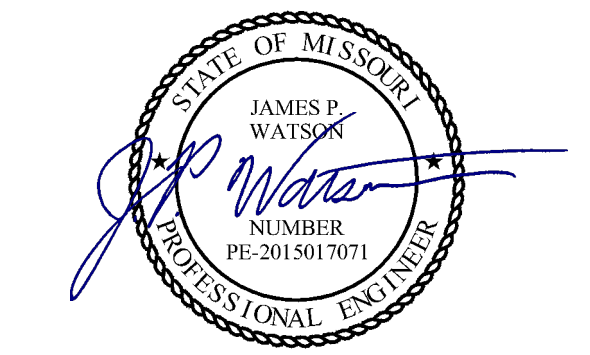
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 DESIGNED BY: TAW

SHEET TITLE:
**SANITARY SEWER
 PLAN**

SHEET NUMBER:

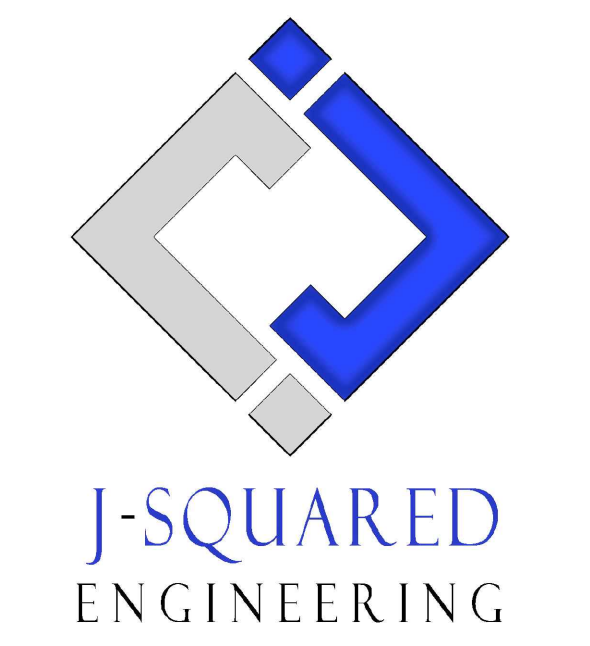
P-101

21 OF 23 SHEETS
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CAD DWG FILE: J20720
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: TAW

SHEET TITLE:
WATER PLAN

SHEET NUMBER:
P-102
22 OF 23 SHEETS
02 / 27 / 2023

WATER & GAS PLAN SYMBOL LEGEND

- COLD WATER LINE
- HOT WATER LINE
- HOT WATER RECIRCULATION LINE
- Ⓜ WATER METER
- ⊕ VALVE
- ⊙ PUMP
- PIPING TURNED DOWN / TURNED UP
- ✕ TIE INTO EXISTING

WATER & GAS PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

WATER & GAS PLAN KEY NOTES:

- ① CONTRACTOR TO VERIFY EXACT LOCATION OF SERVICE ENTRANCE INTO SPACE AND SIZE OF EXISTING SERVICE. UPSIZE SERVICE IF NECESSARY.



WATER & GAS PLAN
SCALE: 1/4" = 1'-0"

PLUMBING SPECIFICATIONS

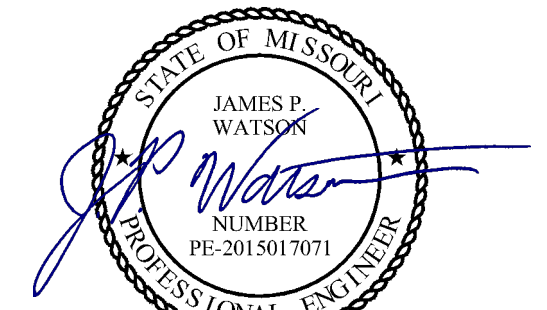
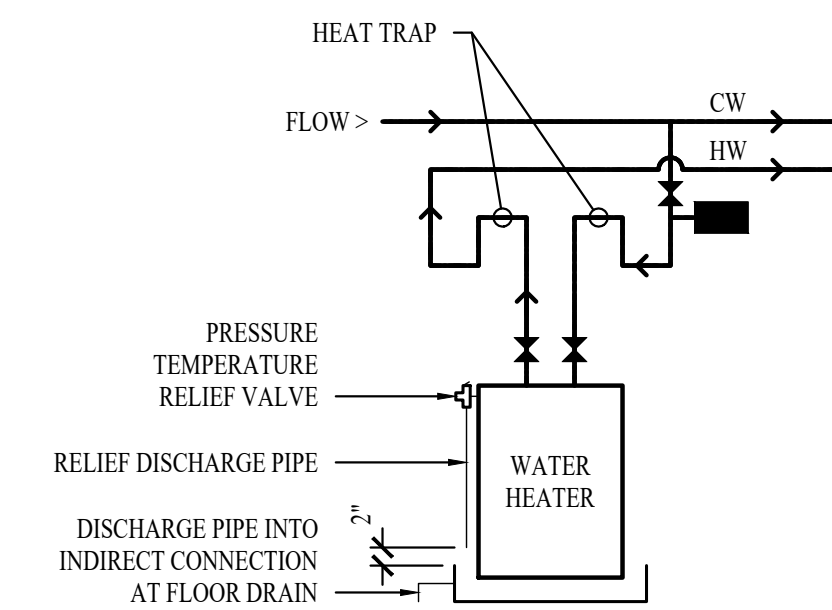
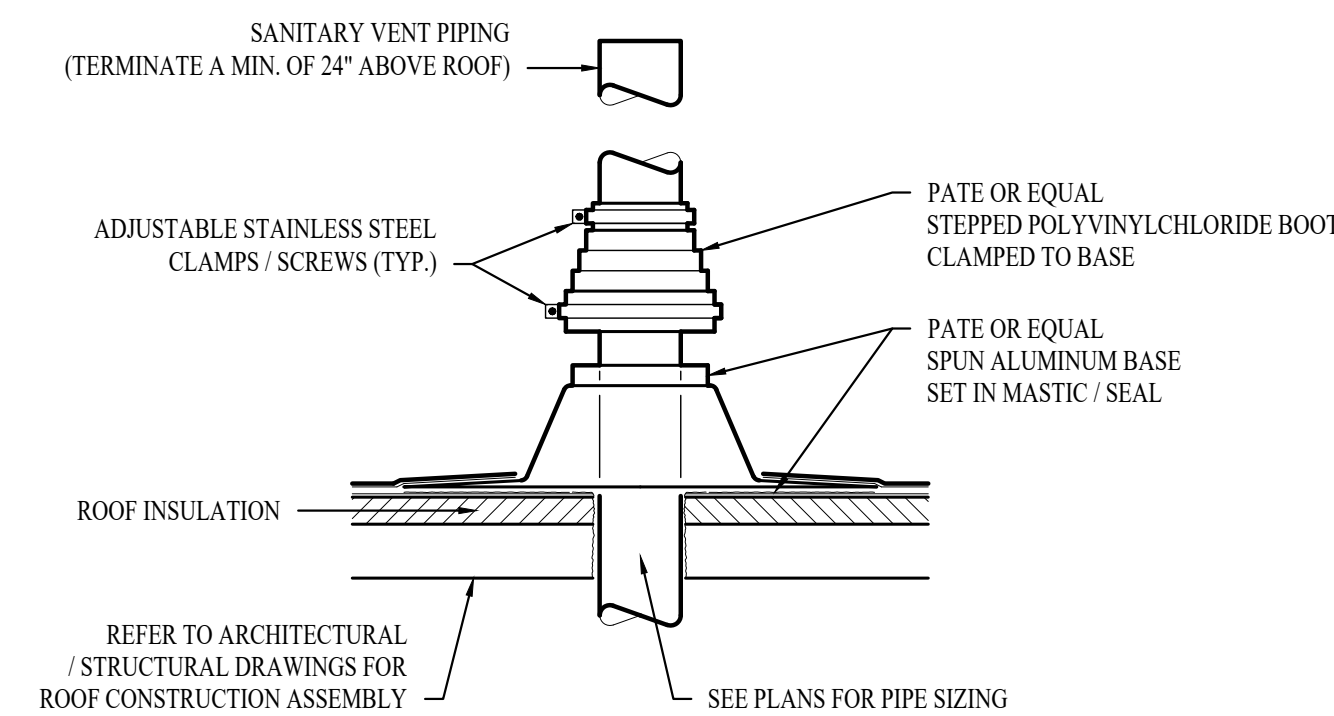
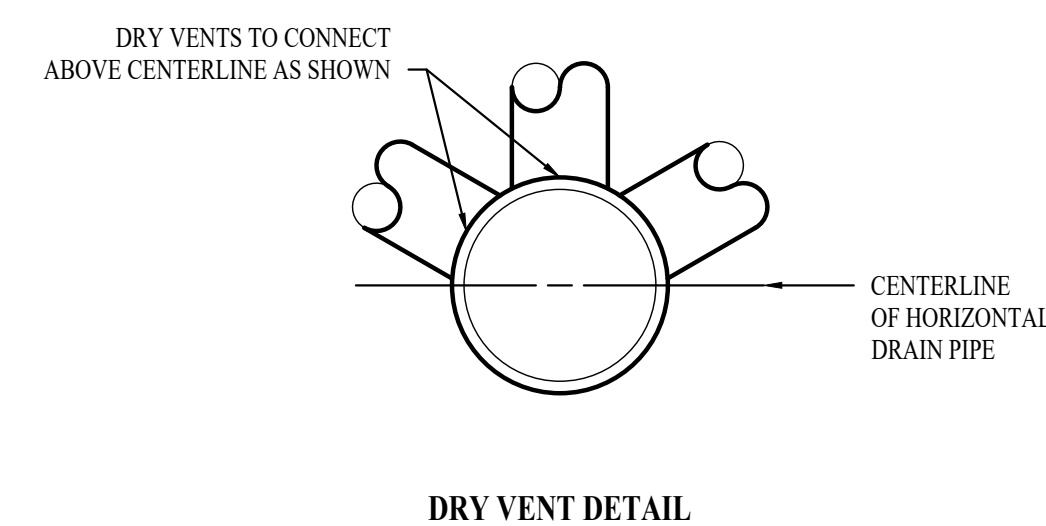
- I. GENERAL
- 1.1. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, 1/4 TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.
2. SANITARY
 - 2.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCH. 40 PVC DWV.
 - 2.2. NO PIPE SMALLER THAN 2" BELOW GRADE.
 - 2.3. WASTE AND VENT PIPING IN PLENUMS TO BE CAST IRON, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.
 - 2.4. ALL VENT PIPE TERMINATIONS ARE TO BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE MECHANICAL AIR INTAKE LOCATIONS.
3. DOMESTIC WATER
 - 3.1. DOMESTIC WATER PIPING TO BE EITHER COPPER OR PEX. WHERE PEX PIPING IS USED, IT SHALL BE INCREASED ONE PIPE SIZE FROM WHAT IS INDICATED ON PLANS FOR ALL PORTIONS OF THE SYSTEM.
 - 3.2. PEX-A MAY BE INSTALLED AT SIZES INDICATED ON PLANS IF AN ENGINEERED PLAN IS SUBMITTED SHOWING ACCEPTABLE PRESSURE DROPS AND FLUID VELOCITIES, APPROVAL MUST BE GRANTED PRIOR TO PURCHASE AND INSTALLATION.
 - 3.3. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED BENEATH BUILDING SLAB.
 - 3.4. COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L".
 - 3.5. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS ARE NOT ACCEPTABLE.
 - 3.6. DOMESTIC WATER PIPING INSULATION
 - 3.6.1. ALL HW PIPING, WHETHER COPPER OR PEX, SHALL BE INSULATED WITH PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. FOR PIPING LESS THAN 1/2", INSULATION THICKNESS TO BE 1". FOR PIPING 1/2" OR GREATER, INSULATION THICKNESS SHALL BE 1/2".
 - 3.6.2. CW COPPER PIPING TO INSULATED WITH 1/2" PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. CW PEX NEED NOT BE INSULATED UNLESS NOTED OTHERWISE.

PLUMBING FIXTURE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
EXP1	EXPANSION TANK	WATTS	PLT-5	
FD1	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL
HD	HUB DRAIN	-	-	
LAV1	LAVATORY (WALL HUNG W/MANUAL FAUCET)	AMERICAN STANDARD	0355.012	WITH ZURN Z81104-XL FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, AND TRUBRO LAV GUARD 2
MS1	MOP SINK	FLAT	MSB2424	WITH ZURN Z843M1 FAUCET WITH WALL HOOK
REF1	REFRIGERATOR BOX	SOUIX CHIEF	696-G1000	
SK1	DOUBLE COMPARTMENT SINK (33x22x7)	ELKAY	CR3322	WITH TWO HANDLED ZURN Z871C4-XL FAUCET
WC1	WATER CLOSET - ADA HEIGHT - TANK	AMERICAN STANDARD	215AA.004	WITH CHURCH 9500SCT SELF SUSTAINING SEAT, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.
WCO1	WALL CLEAN OUT	-	-	
WH1	WATER HEATER	RUUD	EG8P20	20 GALLON, 120V, 1500W
YCO1	YARD CLEAN OUT	ZURN	Z1400	

NOTES:
1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION

PLUMBING CONNECTION SIZING SCHEDULE						
FIXTURE	TYPE	TYPICAL ABBREVIATION	SANITARY PIPING		SUPPLY PIPING	
			WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	HB	-	-	3/4"	-
LAVATORY	LAV	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	REF	-	-	1/2"	-
SHOWER	SH	SH	3"	1-1/2"	1/2"	1/2"
URNAL	UR	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	WC	3"	2"	1/2"	-
WATER CLOSET (FLUSH VALVE)	WC	WC	3"	2"	1"	-

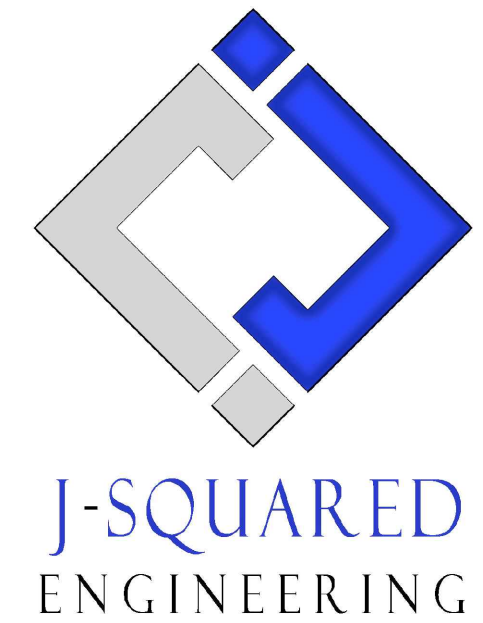
NOTES:
1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS



James Watson, P.E. February 27, 2023
PE-2015017071
MO Certificate of Authority # 2018029680



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Missouri State Certificate of Authority No. 000244



**OFFICE OF
ADMINISTRATION
DIVISION OF
FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION**

O2233-01 -

MULTIPURPOSE
BUILDING for MDA USE

NEW MADRID STATE
OFFICE BUILDING
NEW MADRID, MO

PROJECT # O2233-01
SITE # 7711
ASSET # 8877711007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 02/27/2023

CAD DWG FILE: J20720
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: TAW

SHEET TITLE:
**PLUMBING
DETAILS &
SCHEDULES**

SHEET NUMBER:

P-501

23 OF 23 SHEETS
02 / 27 / 2023