



Date: June 17, 2025

To: Andrew Mathews
SSR, Inc
2995 Sidco Drive
Nashville, TN 37204

RE: **Approval of Plans (REV 1)**
TDOT Gibson County Maintenance Building
1248 B Manufacturers Row
Trenton, TN 38382

TFM # 21267
Project # 2023-11-09-02
County: Gibson

Dear Andrews Mathews,

The construction documents submitted to our office for the above referenced project have been reviewed for compliance with the minimum standards for fire prevention, fire protection, and building construction safety of the *Rules of Tennessee Department of Commerce and Insurance, Division of Fire Prevention, Chapter 0780-02-02, Codes and Standards*.

This is not a public building. Therefore, it is not subject to Tenn. Code Ann. § 68-102-201, et seq., the Tennessee Public Building Accessibility Act. It has not been reviewed for compliance with the 2010 ADA Standards for Accessible Design. It has not been reviewed for compliance with the Americans with Disabilities Act.

Plans are approved with the following stipulation(s), field verifications, and/or notes:

Note that stipulations must be satisfied by sealed construction documents before such work is performed. A Certificate of Occupancy (CO) will not be issued if stipulations are not satisfied.
Rule 0780-02-03-.10.

No approval of plans, or failure to review, plans, and specifications by the Division shall relieve the owner, developer, contractor, or designing architect or engineer of their respective responsibilities for compliance with applicable codes respecting fire prevention, fire protection, and building construction. Rule 0780-02-03-.05.

Approved plans are available electronically at <https://apps.tn.gov/tnsfmo/>. They must be printed with all markups and stamps and placed at the project site prior to construction. They shall be available to the State Fire Marshal's Office inspector and retained until a CO has been issued by the Division. Failure to have the plans at the site and available to the inspector may be grounds for a

Stop Work Order to be issued. Rule 0780-02-03-.05.

All subsequent construction document revisions that impact the approved plan's fire prevention, fire protection, or building construction safety must be submitted to this office for review and approval. Rule 0780-02-03-.02.

New buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. Emergency responder radio coverage must be verified in the field prior to the issuance of a CO. The test should be performed by the local fire department after interior and exterior walls and the roof are constructed.

The project's contractor must contact the Tennessee State Fire Marshal's Office inspector prior to construction to ensure that the proper inspections are performed.

Engineered wood truss drawings and/or engineered steel joist drawings must be submitted for approval to the architect or engineer of record prior to installation. Engineer's approval should be verified by one of the following:

- signed and dated Shop Drawing Review Stamp, or
- signed and dated letter stating acceptance

A CO will be issued after work is completed and all inspections are performed and satisfied. The building must have a CO before it may be occupied. Rule 0780-02-03-.10.

Sincerely,



Michelle Dennis, Plans Examiner II
Codes Enforcement Section

cc: Gerald Trimmer, DSFM

Approval: Storage-1, Business, 1 story with Mezzanine, V-B, Unsprinklered



TFM # 21267

Project # 2023-11-09-02

County: Gibson

Plans Examiner: Michelle Dennis

Phone: 615 313-4724

Email: michelle.dennis@TN.GOV

Date plans received: 6/4/2025

Revision #1 Drawing Changes

Sheet 1A: Revised revision dates on sheet index and updated current mechanical and plumbing engineers of record.

Sheet A01.01: Revised compressor pad location and added dimensions for bollards near garage doors.

Sheet A01.03: Revised location of door to IT room

Sheet A02.01: Added roof vent stack

Sheet A03.01: Added a detail for the coiling door, added abbreviations for the doors, and modified the general notes for exterior doors to be type insulated HM.

Sheet A04.01: Added canopies over doors on lower level, adjusted lights so that the same type was used over each door, removed louvers no longer needed, and moved one of the lights over the stairs.

Sheet A08.01: Revised location of door to IT room

Sheet A08.02: Added details for handrails and epoxy flooring.

Sheet S1.0: Moved the compressor pad and added dimensions, added dimensions for stair landings and aprons at man doors, added a missing door apron, and added notes to the mezzanine baseplate location to recess the pedestal beneath the floor.

Sheet S1.1: Revised location of door to IT room

Sheet M0.1: Added specifications for the split system and unit heater

Sheet M1.0: Revised location of exterior door.

Sheet M1.1: Revised location of exterior door, revised location of door to IT room, added unit heater schedule, updated split system heat pump schedule to align with current models.

Sheet P0.1: Updated plumbing fixture connection schedule to align with current model numbers and code requirements, revised fuel source for water heater, and updated pump schedule to align with current models.

Sheet P1.0: Revised location of exterior door.

Sheet P1.1: Revised location of exterior door, revised location of door to IT room.

Sheet E1.0: Added lights and 52" high receptacles along plan north wall of the shop area, power for air compressor was moved to plan northwest corner and maintenance receptacle was added, type YG light on plan west was moved over man door, type YD light on plan west wall was moved over garage door, special configuration receptacle was moved from plan south wall to plan northwest corner, type YG light on plan south wall was moved over man door, redundant electrical and lighting fixtures that are already shown on E1.1 were removed from the office area.

Sheet E1.1: Redundant electrical and lighting fixtures that are already shown on E1.0 were removed from the shop area, type YG lights were moved over man doors, revised location of exterior door, switches in the break room were changed to type 4-dimmer, switches in the bathroom were changed to type OC, switches in the office were changed to type 3-dimmer, maintenance receptacles and safety switches were added at exterior mechanical units, switches on the mezzanine were revised to be type 3, light type YG was moved over man door at top of stairs, switches in the water heater closet and IT room were changed to standard switches, receptacles were added in the IT room and upstairs shower/restroom.

Sheet E6.1: Revised disconnect rating and wire size for exhaust fan, revised disconnect rating, wire size, conduit size, and remarks for all outdoor heat pumps, emergency battery backup was added to emergency lights

Sheet T1.1: Revised location of door to IT room, removed all plan callouts and notes related to STS equipment, added and moved data receptacles on the mezzanine

Sheet T5.0: Removed bus bar detail.

Sheet A09.01: Revised location of door to IT room.

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ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
607-65.20	SITE PREPARATION	EACH	1
680-02.01	BUILDING (FOUNDATION AND STRUCTURE)	EACH	1
680-02.02	BUILDING (INTERIOR CONSTRUCTION)	EACH	1
717-01	MOBILIZATION	LS	1

1.
- INCLUDING BUT NOT LIMITED TO REMOVAL OF EXISTING STRUCTURES, SITE WORK, AND SITE UTILITY WORK.
2.
- INCLUDING BUT NOT LIMITED TO INSTALLATION OF NEW FOUNDATIONS, FLOOR SLABS, PRE-ENGINEERED METAL BUILDING, MECHANICAL UNITS, AND OVERHEAD BAY LIGHTING (CORE AND SHELL)
3.
- INCLUDING BUT NOT LIMITED TO CONSTRUCTION OF INTERIOR FRAMING, PLUMBING, OFFICE LIGHTING, AND INTERIOR BUILD OUT OF ELECTRICAL WORK.

PROJECT DESIGNERS

ARCHITECT: WOLD/HFR DESIGN

RON FRANKS
214 CENTERVIEW DRIVE, STE 300
BRENTWOOD, TN 37207

CIVIL ENGINEER: SSR, INC.

BRANDON TAYLOR, PE
2650 THOUSAND OAKS BLVD, SUITE 4200
MEMPHIS, TN 38118

STRUCTURAL ENGINEER: SSR, INC.

AJ MATHEWS, PE
2995 SIDCO DRIVE
NASHVILLE, TN 37204

MECHANICAL ENGINEER: SSR, INC.

DANIEL RUCKER, PE
2995 SIDCO DRIVE
NASHVILLE, TN 37204

PLUMBING ENGINEER: SSR, INC.

JENNIFER MARSH, PE
2995 SIDCO DRIVE
NASHVILLE, TN 37204

ELECTRICAL ENGINEER: SSR, INC.

GREG LOBO, PE
2650 THOUSAND OAKS BLVD, SUITE 4200
MEMPHIS, TN 38118

TECHNOLOGY ENGINEER: SSR, INC.

GREG LOBO, PE
2650 THOUSAND OAKS BLVD, SUITE 4200
MEMPHIS, TN 38118

LOCAL OFFICIALS

FIRE CHIEF

DAVID SMITH
19 W FRANKLIN ST.
BROWNSVILLE, TN 38012
(731) 772-1396

BUILDING OFFICIAL

CALEB POTTER
111 NORTH WASHINGTON AVE.
BROWNSVILLE, TN 38012
(731) 772-1212

PROJECT NO.	27999-3605-04
PIN NO.	131119
DESCRIPTION	Revision 1
BY	
DATE	03/05/25

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

PHASE
CONSTRUCTION

DATE
SEPTEMBER 29, 2023

PROJECT # 2023-11-09-02

Wold

HFR
DESIGN

214 Centerview Drive Suite 300
Brentwood, TN 37027
woldae.com phone: 615.370.8500
fax: 615.370.8530

SSR

Smith
Seckman
Reid, Inc.

2650 Thousand Oaks Boulevard,
Suite 4200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com

SEALED BY

ANDREW JAMES MATHEWS

REGISTERED ENGINEER

MEMBER

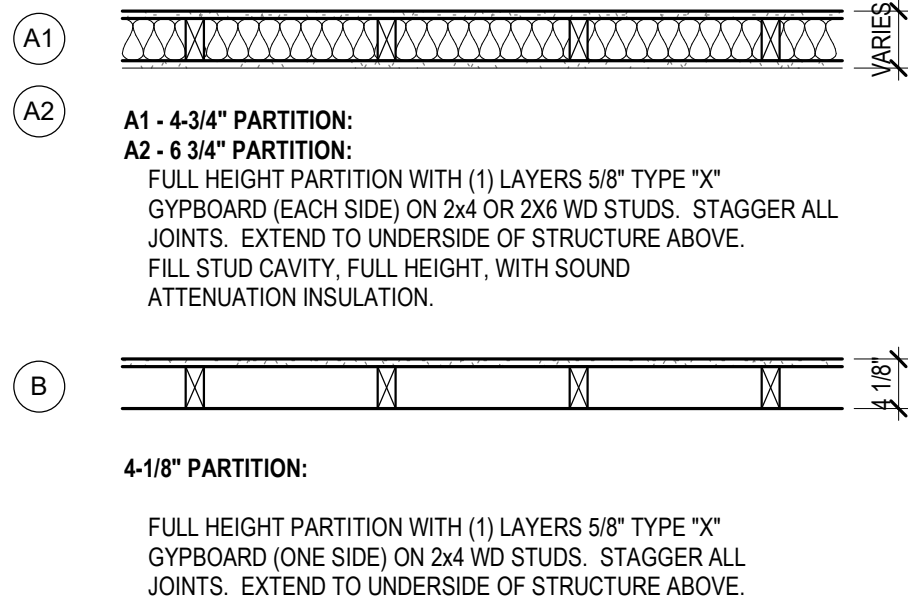
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03/30/2025

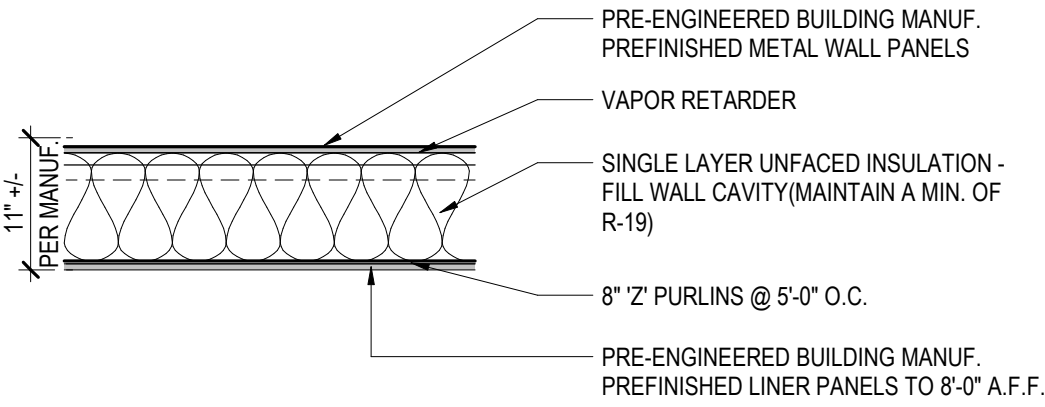
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

SHEET INDEX
AND
QUANTITIES
1A

INTERIOR WALL TYPES



EXTERIOR WALL TYPES

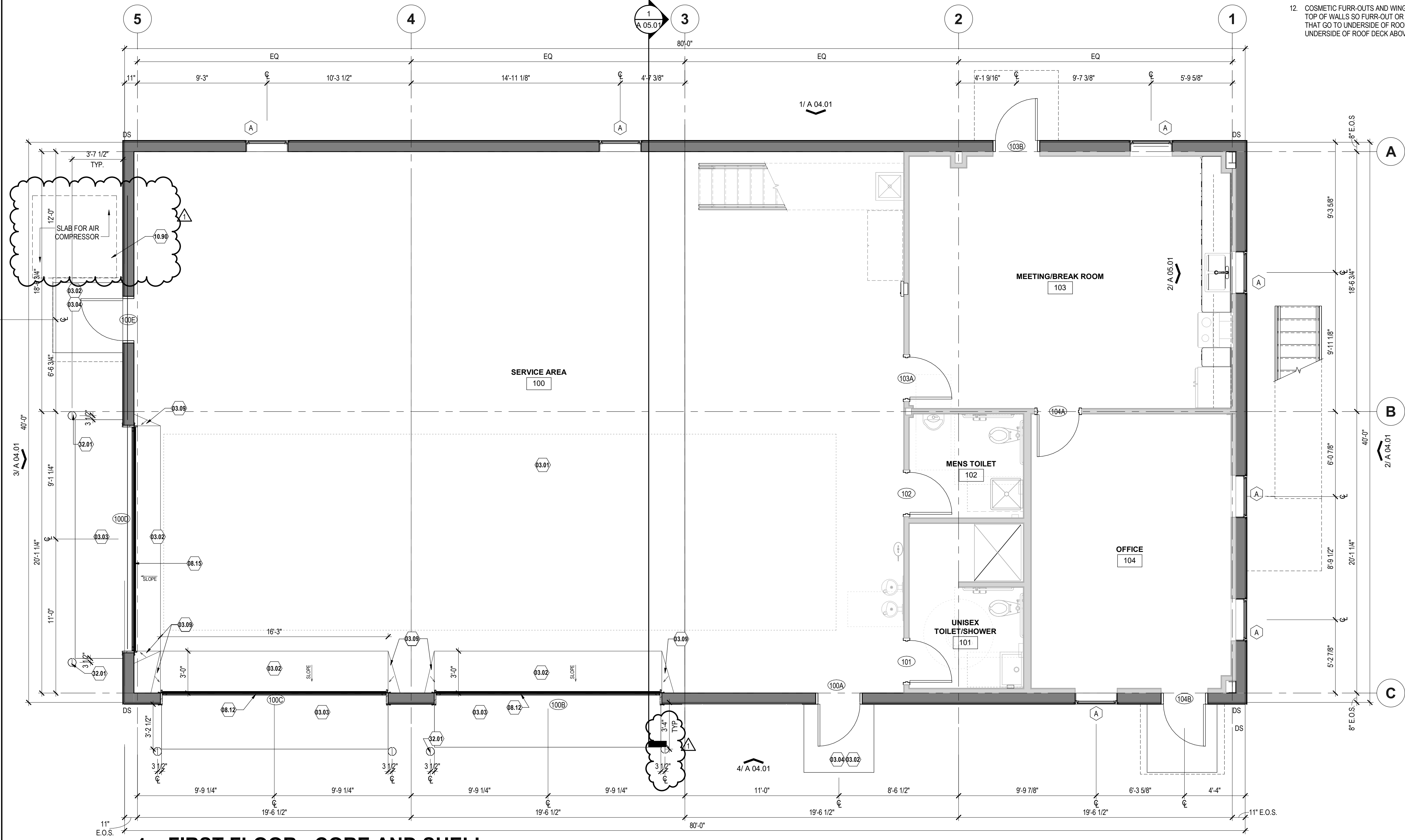


KEYNOTE SCHEDULE

- # DENOTED BY A NUMBER ENCLOSED INSIDE A HEXAGON. ONLY NOTES APPLICABLE TO THIS SHEET ARE SHOWN.
- 03.01 CONCRETE SLAB-ON-GRADE OVER VAPOR BARRIER OVER COMPACTED SUBGRADE. SLOPE TO DRAIN; REF STRUCTURAL
03.02 SLOPE CONCRETE TO DRAIN TOWARDS EXTERIOR; EXTEND SLOPE INTO BUILDING TO PREVENT PONDING AND INFILTRATION AT INTERIOR OF DOORS.
03.03 4'-0" D CONCRETE APRON; REF CIVIL
03.04 5'-0" x 5'-0" CONCRETE STOOP; REF CIVIL
03.09 CUT SLAB TO SLOP TOWARDS OUTSIDE
08.12 PREFINISHED INSULATED METAL OVERHEAD SECTIONAL DOOR W/ MOTOR OPERATOR
08.15 PREFINISHED INSULATED METAL OVERHEAD COILING DOOR W/ MOTOR OPERATOR
10.90 PRE-ENGINEERED CANOPY, WITH FINISH TO MATCH WINDOWS. SUSPEND CANOPY BACK TO FRAMING AND SECURE. CANOPY BY METAL BUILDING MANUFACTURER, REF. SPECS
32.01 6" DIAMETER CONC. FILLED STEEL BOLLARDS, TYP.

GEN. ARCHITECTURAL NOTES

- VERIFY ALL DIMENSIONS/WORK TO BE DONE BASED ON EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
- ALL PARTITIONS ARE TO BE CONTINUOUS TO THE STRUCTURE ABOVE. (U.N.O.)
- INSTALL SOUND ATTENUATION BATT INSULATION IN ALL INTERIOR PARTITIONS. (U.N.O.)
- RATED WALLS: INSURE WALLS INDICATED AS RATED FIRE AND / OR SMOKE BARRIERS ARE CONTINUOUS CONSTRUCTION (THRU CORNERS AND TO THE DECK ABOVE) AND PENETRATIONS ARE PROPERLY FIRE AND SMOKE SEALED.
- BLOCKING: PROVIDE IN ALL WALLS WHERE REQUIRED FOR HANDRAILS, WALL GUARDS, FOR SHELVEING, WALL CABINETS, WALL MOUNTED DOOR STOPS AND EQUIPMENT. CUT AND PATCH GYPSUM BOARD IN EXISTING WALLS FOR INSTALLATION OF NEW BLOCKING WHERE REQUIRED. PROVIDE BLOCKING IN ALL WALLS AT WATER CLOSET LOCATIONS FOR GRAB BAR INSTALLATION WHETHER GRAB BARS ARE INDICATED OR NOT.
- WHERE DOOR IS SHOWN IN CORNER OF ROOM, LOCATE OUTSIDE EDGE OF DOOR FRAME 4" FROM ADJACENT PERPENDICULAR WALL. (U.N.O.). ALLOW FOR PROTRUDING HARDWARE.
- FURR OUT AROUND COLUMNS, PIPES, UTILITIES, ETC., WITH THE MINIMUM DEPTH NECESSARY TO CONCEAL PIPES AND COLUMNS.
- SURFACE PREP: PREP SURFACES FOR NEW FINISHES ACCORDING TO SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- STRUCTURAL SUPPORTS: PROVIDE STRUCTURAL SUPPORTS ABOVE CEILING WHERE REQUIRED FOR CEILING HUNG EQUIPMENT.
- FRAME & DOOR FIRE LABELS: CLEAN PAINT OFF ALL NEW AND EXISTING FIRE LABELS IN SCOPE OF WORK.
- RATINGS OF WALLS AT DOORWAYS AND VIEW WINDOWS ARE NOT SHOWN FOR DRAWING GRAPHICS CLARITY. RATINGS ARE TO CONTINUE THROUGH WALL CONTAINING DOORWAY OR VIEW WINDOWS.
- COSMETIC FURR-OUTS AND WING WALLS MAY TERMINATE 8" ABOVE ADJACENT CEILING. CAP TOP OF WALLS SO FURR-OUT OR WIND WALL DOES NOT CREATE A BREACH IN ADJACENT WALLS THAT GO TO UNDERSIDE OF ROOF DECK. BRACE TOPS OF WALLS THAT DO NOT GO TO UNDERSIDE OF ROOF DECK ABOVE.



1 FIRST FLOOR - CORE AND SHELL



THESE PLANS AND SPECIFICATIONS ARE PROVIDED TO YOU FOR YOUR INFORMATION ONLY. THEY ARE NOT TO BE USED FOR CONSTRUCTION OR FOR ANY OTHER PURPOSE. THE USER ASSUMES ALL LIABILITY FOR ANY AND ALL DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING FROM THE USE OF THESE PLANS AND SPECIFICATIONS.

PROJECT NO.		27999-3605-04			
PIN NO.		131119			
REVISIONS	DESCRIPTION	BY	DATE	AT	
REVISION 1			03/05/2025		

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

PHASE
CONSTRUCTION
DATE
SEPTEMBER 29, 2023
PROJECT # 2023-11-09-02



214 Centerview Drive Suite 300
Brentwood, TN 37027
woldae.com phone: 615.370.8500
fax: 615.370.8530

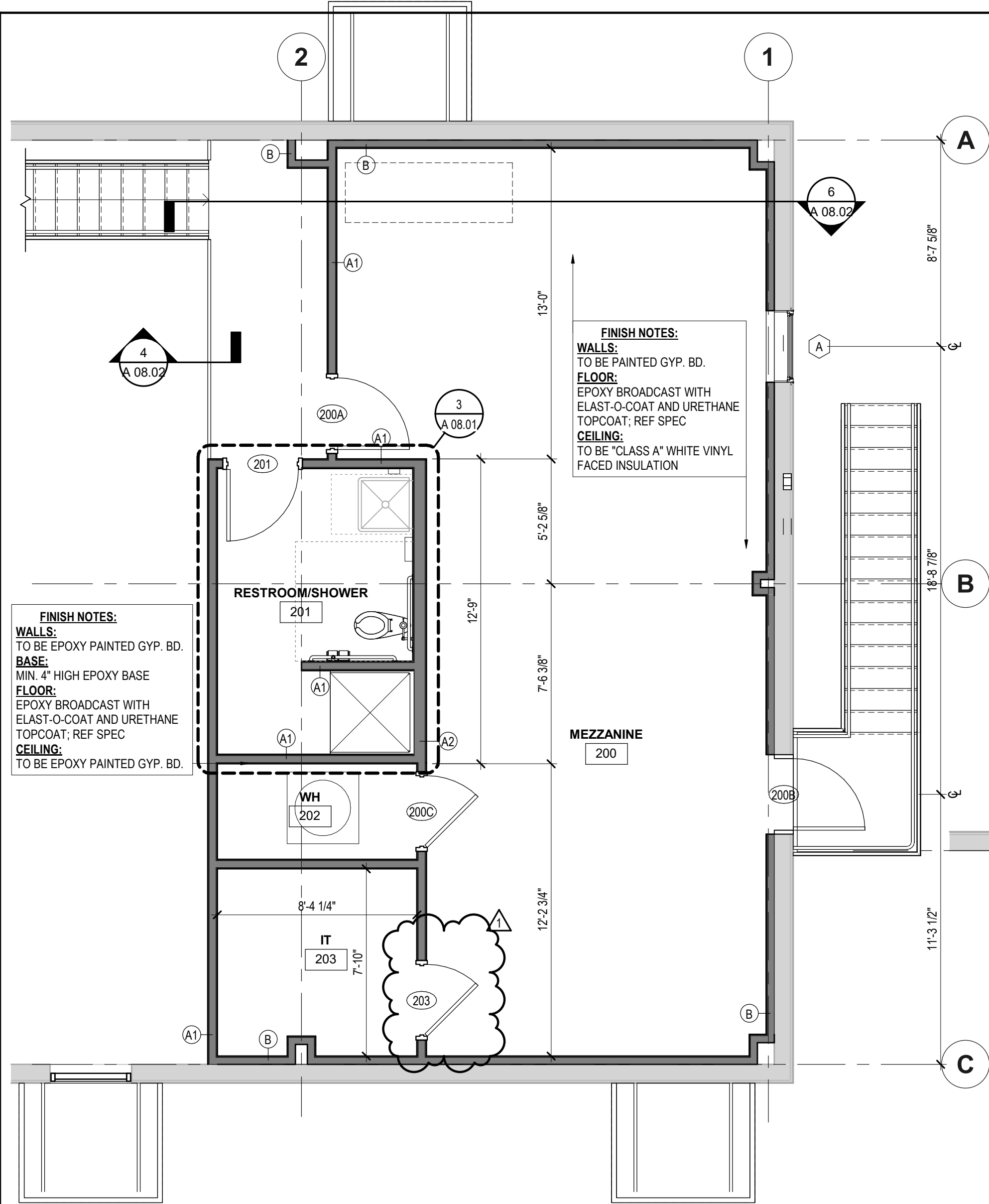
SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com

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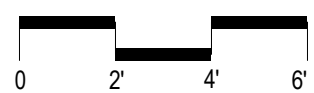


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

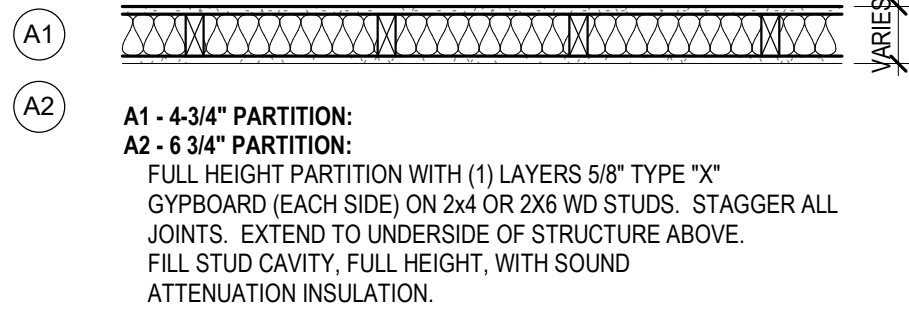
FIRST FLOOR -
CORE AND
SHELL
A 01.01



2 MEZZANINE PLAN



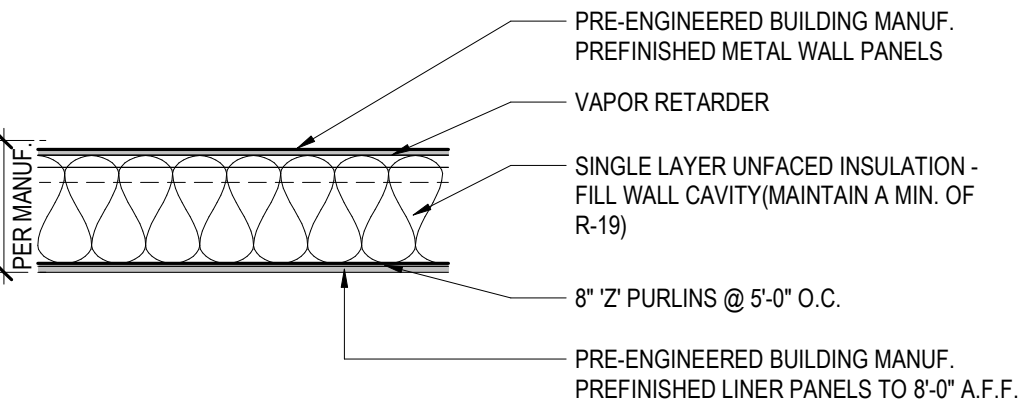
INTERIOR WALL TYPES



4-1/8" PARTITION:

FULL HEIGHT PARTITION WITH (1) LAYERS 5/8" TYPE "X" GYPBOARD (ONE SIDE) ON 2x4 WD STUDS. STAGGER ALL JOINTS. EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.

EXTERIOR WALL TYPES



FINISH NOTES:
WALLS: TO BE PRE FINISHED METAL LINER PANELS 8" ABOVE FINISH FLOOR. "CLASS A" WHITE VINYL FACED INSULATION ABOVE THE LINER PANEL.
FLOOR: PENETRATING SEALER FOR CONCRETE FLOOR.
CEILING: TO BE "CLASS A" WHITE VINYL FACED INSULATION

SERVICE AREA

100

1 FIRST FLOOR PLAN



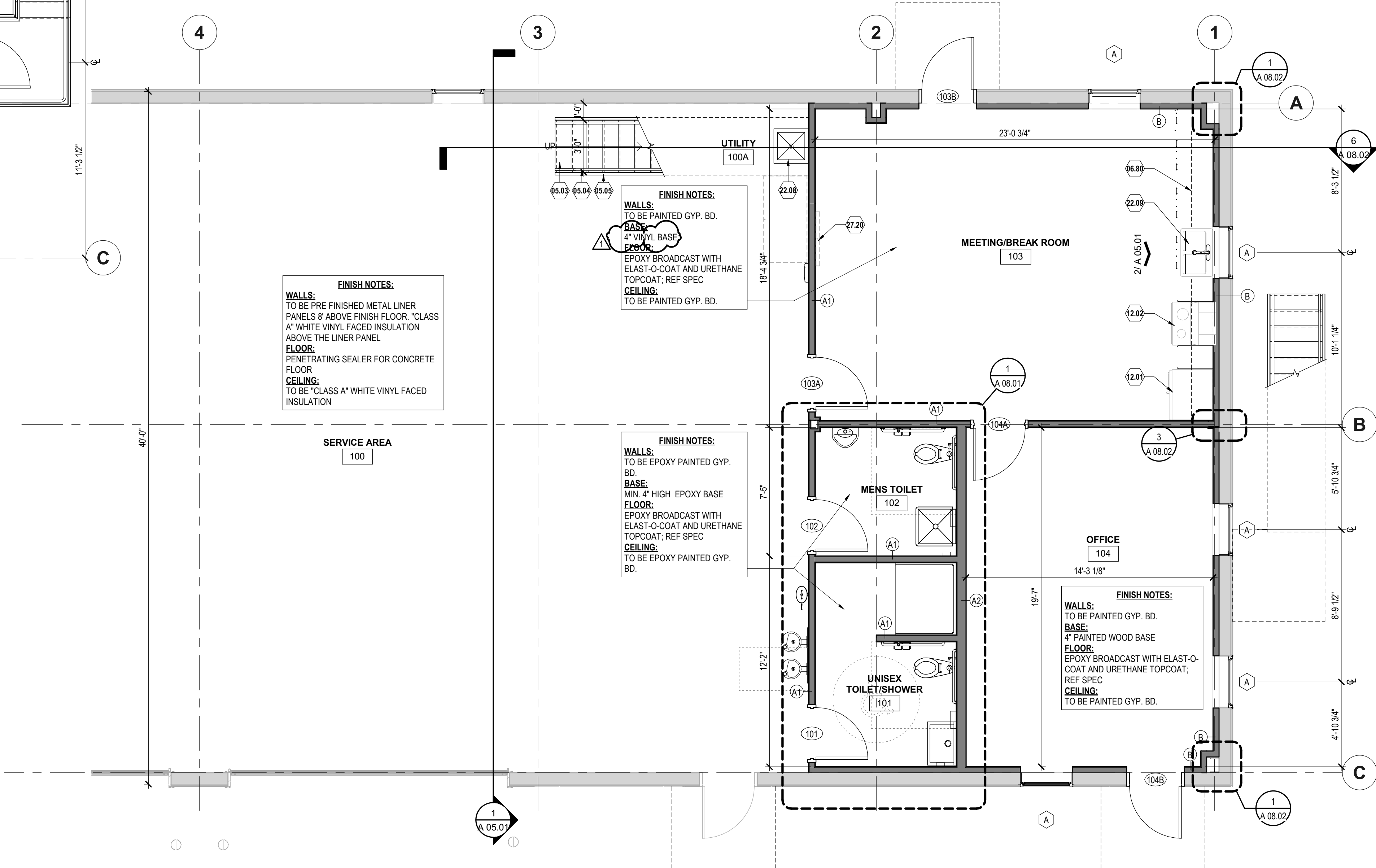
KEYNOTE SCHEDULE

DENOTED BY A NUMBER ENCLOSED INSIDE A HEXAGON. ONLY NOTES APPLICABLE TO THIS SHEET ARE SHOWN.

- 05.03 MIN. 3'-0" W PREFAB METAL STAIRS
- 05.04 PAINTED STEEL GUARD @ 42" A.F.F.: 1 1/2" TOP RAIL & VERTICAL POST. 1" SQ. BOTTOMS RAIL AND 1/2" SQ. PICKETS. - TYP. EACH SIDE OF STAIR
- 05.05 PAINTED STEEL HANDRAILS @ 36" A.F.F.: 1 1/2" TOP RAIL. - TYP. EACH SIDE OF STAIR
- 12.01 REFRIGERATOR, C.F.C.I
- 12.02 ELECTRIC RANGE WITH RESIDENTIAL HOOD, C.F.C.I
- 22.08 MOP SINK
- 22.09 UNDERMOUNT DOUBLE BOWL SINK
- 27.20 WALL MOUNTED TV, TV AND MOUNT OFCI. PROVIDE BLOCKING

GEN. ARCHITECTURAL NOTES

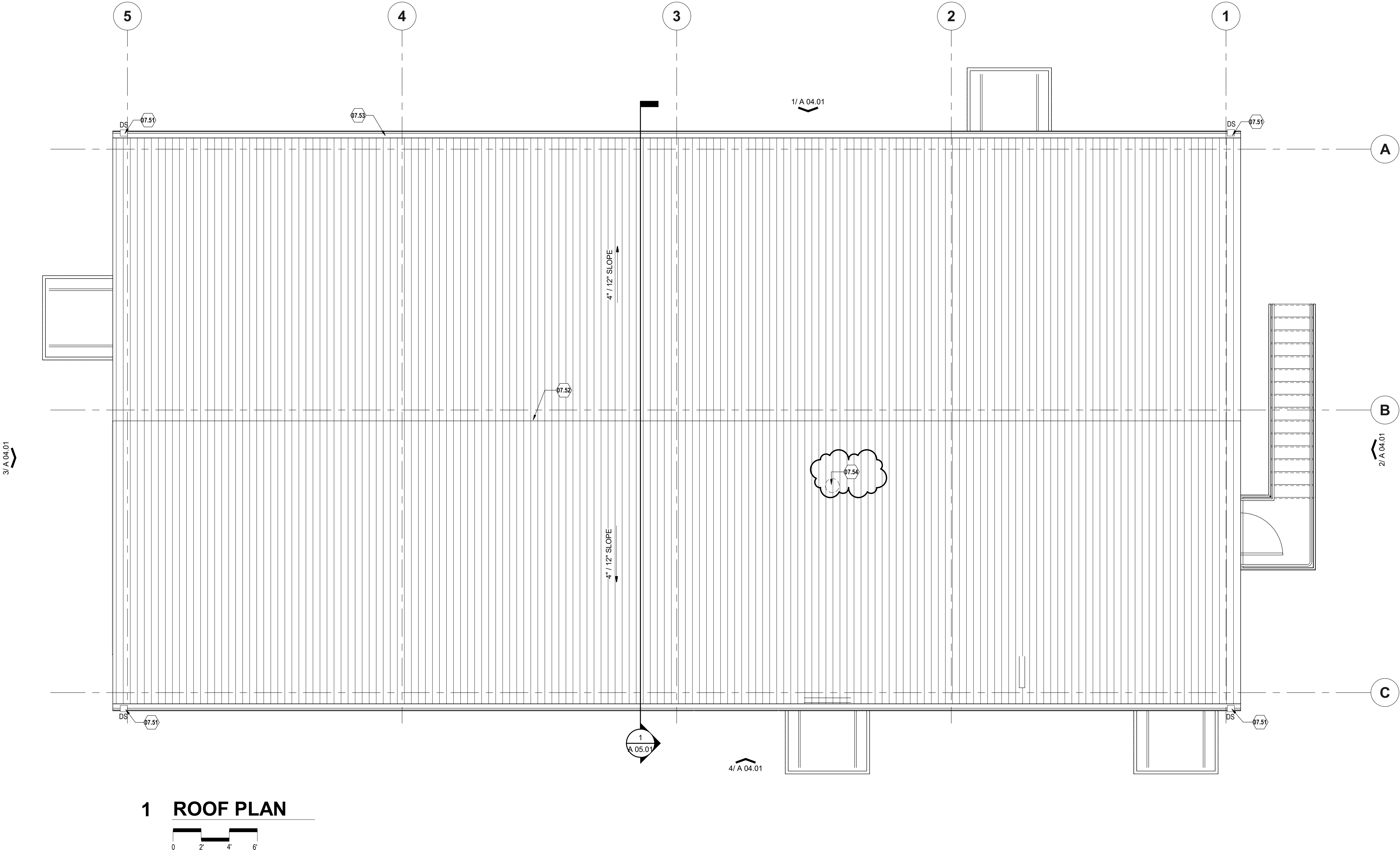
1. VERIFY ALL DIMENSIONS/WORK TO BE DONE BASED ON EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
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3. INSTALL SOUND ATTENUATION BATT INSULATION IN ALL INTERIOR PARTITIONS. (U.N.O.)
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6. WHERE DOOR IS SHOWN IN CORNER OF ROOM, LOCATE OUTSIDE EDGE OF DOOR FRAME 4" FROM ADJACENT PERPENDICULAR WALL. (U.N.O.). ALLOW FOR PROTRUDING HARDWARE.
7. FURR OUT AROUND COLUMNS, PIPES, UTILITIES, ETC., WITH THE MINIMUM DEPTH NECESSARY TO CONCEAL PIPES AND COLUMNS.
8. SURFACE PREP: PREP SURFACES FOR NEW FINISHES ACCORDING TO SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
9. STRUCTURAL SUPPORTS: PROVIDE STRUCTURAL SUPPORTS ABOVE CEILING WHERE REQUIRED FOR CEILING HUNG EQUIPMENT.
10. FRAME & DOOR FIRE LABELS: CLEAN PAINT OFF ALL NEW AND EXISTING FIRE LABELS IN SCOPE OF WORK.
11. RATINGS OF WALLS AT DOORWAYS AND VIEW WINDOWS ARE NOT SHOWN FOR DRAWING GRAPHICS CLARITY. RATINGS ARE TO CONTINUE THROUGH WALL CONTAINING DOORWAY OR VIEW WINDOWS.
12. COSMETIC FURR-OUTS AND WING WALLS MAY TERMINATE 8" ABOVE ADJACENT CEILING. CAP TOP OF WALLS SO FURR-OUT OR WIND WALL DOES NOT CREATE A BREACH IN ADJACENT WALLS THAT GO TO UNDERSIDE OF ROOF DECK. BRACE TOPS OF WALLS THAT DO NOT GO TO UNDERSIDE OF ROOF DECK ABOVE.



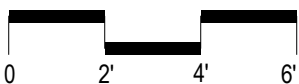
PROJECT NO.	27999-3605-04
PIN NO.	131119
DATE	03/05/2025
BY	AT
REVISIONS	
DESCRIPTION	
REVISION 1	
TDOT GIBSON COUNTY MAINTENANCE BUILDING	1248 B MANUFACTURERS ROW, TRENTON, TN 38382
DATE	SEPTEMBER 29, 2023
PHASE	CONSTRUCTION
PROJECT #	2023-11-09-02
Wold	214 Centerview Drive Suite 300 Brentwood, TN 37027 woldae.com phone: 615.370.8500 fax: 615.370.8530
SSR	Smith Seckman Reid, Inc. 2650 Thousand Oaks Boulevard, Suite 3200 Memphis, TN 38118 (901) 683-3900 FAX: (901) 683-3990 www.ssr-inc.com
SEALED BY	
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION	
FIRST FLR. / MEZZ. BUILD-OUT A 01.03	

KEYNOTE SCHEDULE

#	DENOTED BY A NUMBER ENCLOSED INSIDE A HEXAGON. ONLY NOTES APPLICABLE TO THIS SHEET ARE SHOWN.
07.51	PRE-ENGINEERED BUILDING MANUF. DOWNSPOUT (DS)
07.52	RIDGE VENT BY PRE-ENGINEERED BUILDING MANUFACTURER
07.53	PRE-ENGINEERED BUILDING MANUF. GUTTER
07.54	ROOF VENT PENTRATION. PROVIDE BOOT FOR PENETRATIONS AND SEAL AROUND VENT.



1 ROOF PLAN



THESE PLANS AND SPECIFICATIONS
ARE ISSUED TO BE PART OF THE
JOB OF THE ARCHITECT. A FINAL CERTIFICATE
OF OCCUPANCY OR PROCEEDING
CANNOT BE ISSUED WITHOUT THE
SEAL OF THE ARCHITECT.

No alteration or modification of
these plans and specifications
shall be made without the
approval of the architect and
the owner.

TRANSMISSION STATE FREE MATERIALS OFFICE

PROJECT NO.	27999-3605-04
PIN NO.	131119
DESCRIPTION	REVISION 1
BY	AT
DATE	09/05/2025

TDOT GIBSON COUNTY MAINTENANCE BUILDING	1248 B MANUFACTURERS ROW, TRENTON, TN 38382	DATE SEPTEMBER 29, 2023
PHASE CONSTRUCTION		PROJECT # 2023-11-09-02



214 Centerview Drive Suite 300
Brentwood, TN 37027
woldae.com phone: 615.370.8500
fax: 615.370.8530



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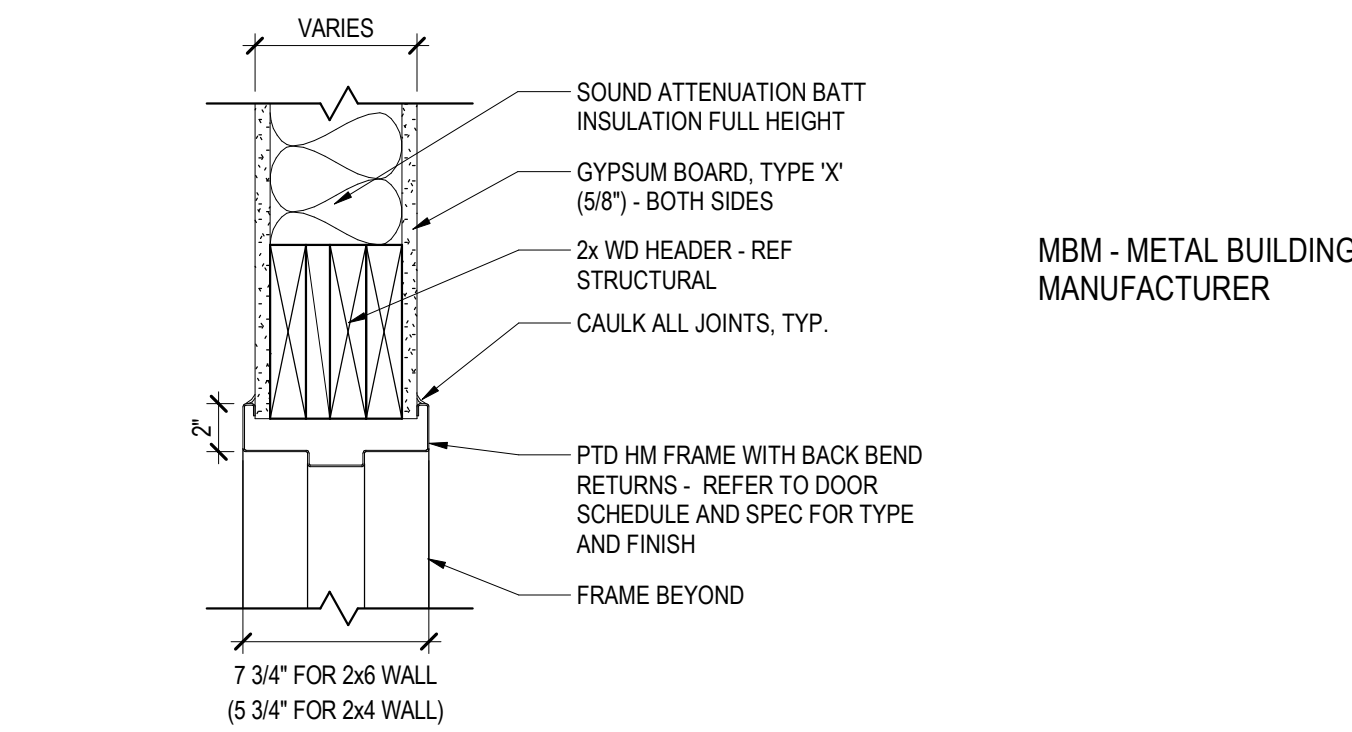


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ROOF PLAN

A 02.01

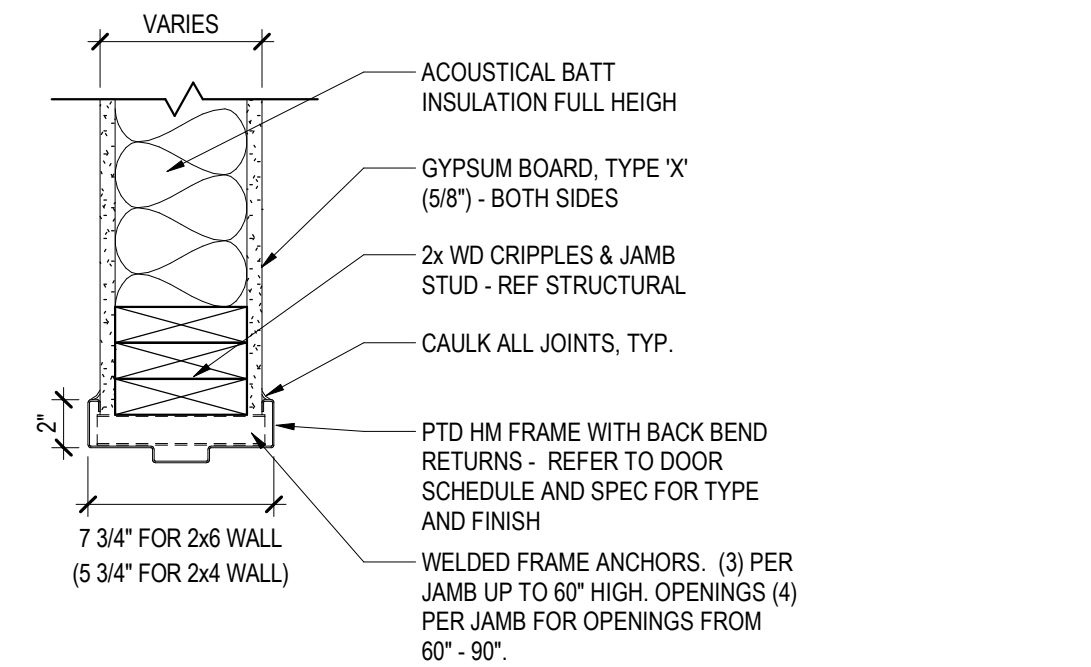
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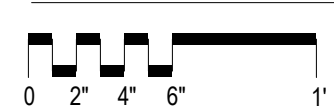
1A HEAD



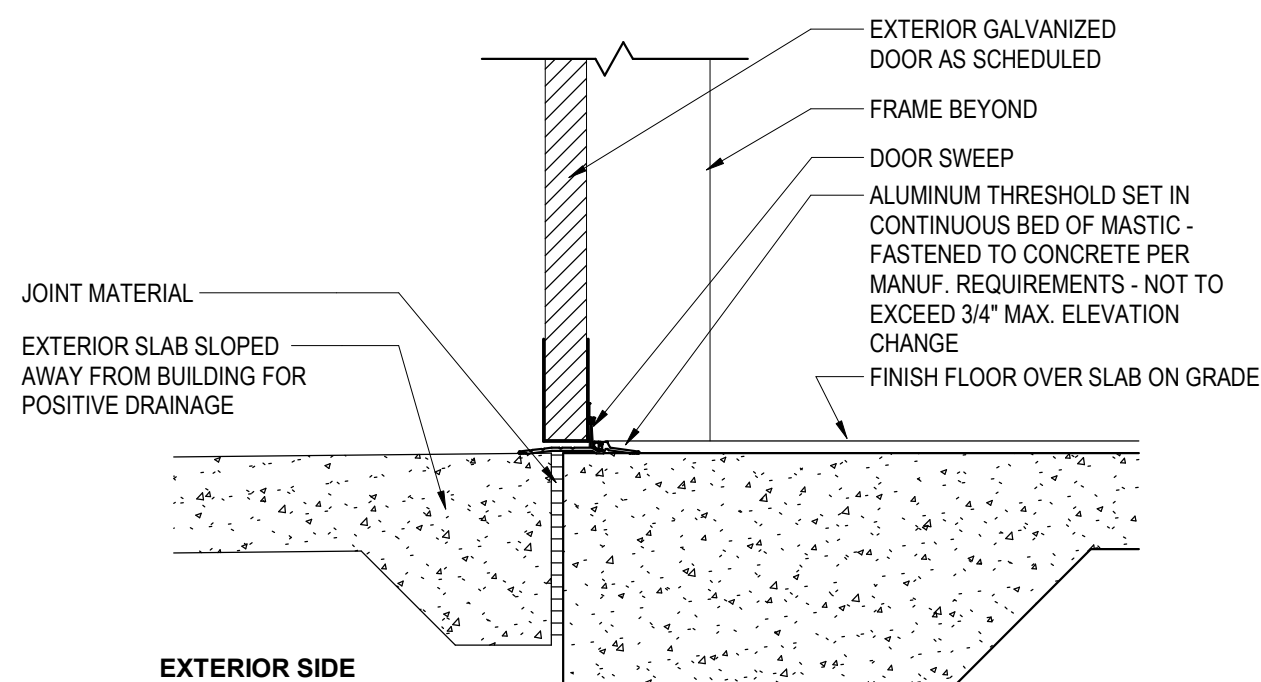
NON RATED OPENING



1B JAMB

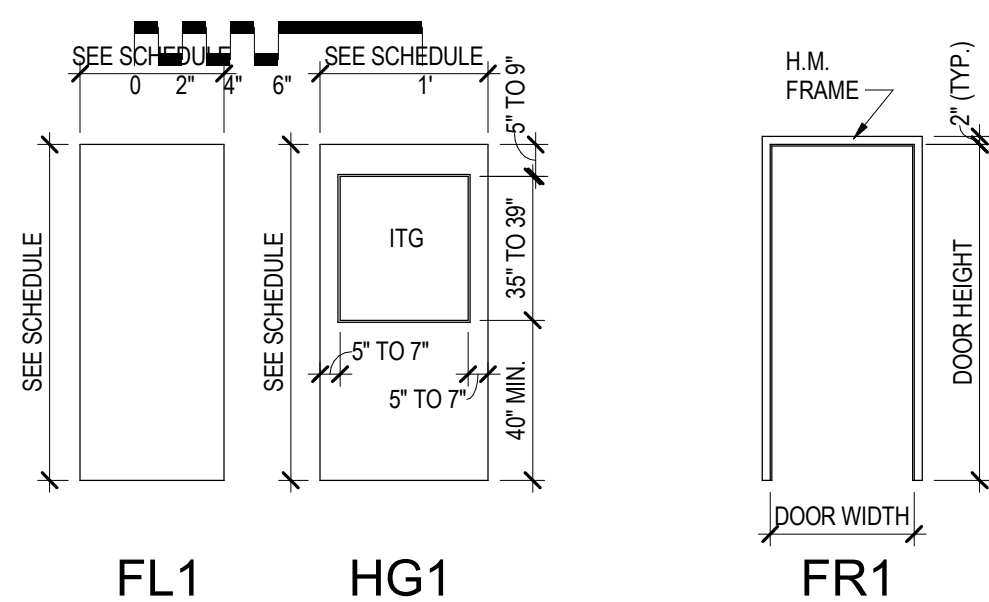


NON RATED OPENING

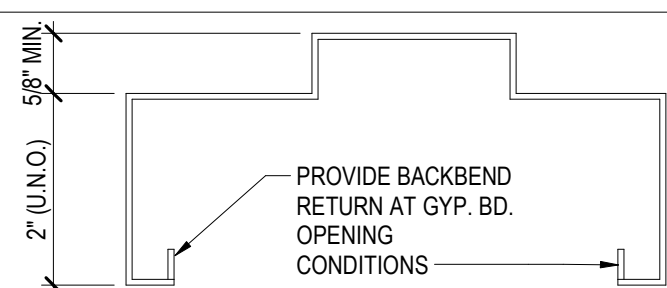


2 EXT. HM SILL - TYP.

HM EXTERIOR DOOR



DOOR AND FRAME TYPES



TYPICAL H.M. DOOR FRAME SECTION

NOT TO SCALE

DOOR SCHEDULE (BY NUMBER)												
DOORS								FRAMES		DETAILS		REMARKS (Ref. Door keynotes)
NO.	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	RATING	GLAZING	TYPE	MATERIAL	HEAD	JAMB	
100A	HG1	3'-0"	7'-0"	1 3/4"	HM	EXTERIOR	ITG	FR1	HM	--	--	1,6
100B	OH1	16'-0"	14'-0"	1 1/2"	ICS	EXTERIOR	--	--	--	4/ A03.01	--	2,3
100C	OH1	16'-0"	14'-0"	1 1/2"	ICS	EXTERIOR	--	--	--	4/ A03.01	--	2,3
100D	OH1	16'-0"	14'-0"	1 1/2"	ICS	EXTERIOR	--	--	--	4/ A03.01	--	3,7
100E	HG1	3'-0"	7'-0"	1 3/4"	--	EXTERIOR	ITG	FR1	HM	--	--	
101	FL1	3'-0"	7'-0"	1 3/4"	HM	--	--	FR1	HM	1A/ A03.01	1B/ A03.01	5
102	FL1	3'-0"	7'-0"	1 3/4"	HM	--	--	FR1	HM	1A/ A03.01	1B/ A03.01	5
103A	FL1	3'-0"	7'-0"	1 3/4"	HM	--	--	FR1	HM	1A/ A03.01	1B/ A03.01	4
103B	HG1	3'-0"	7'-0"	1 3/4"	--	EXTERIOR	ITG	FR1	HM	--	--	
104A	FL1	3'-0"	7'-0"	1 3/4"	HM	--	--	FR1	HM	1A/ A03.01	1B/ A03.01	4
104B	HG1	3'-0"	7'-0"	1 3/4"	HM	EXTERIOR	ITG	--	--	--	--	1,6
200A	FL1	3'-0"	7'-0"	1 3/4"	HM	--	--	FR1	HM	1A/ A03.01	1B/ A03.01	4
200B	HG1	3'-0"	7'-0"	1 3/4"	HM	EXTERIOR	ITG	--	--	--	--	1,6
200C	FL1	3'-0"	7'-0"	1 3/4"	--	--	--	--	--	--	--	
201	FL1	3'-0"	7'-0"	1 3/4"	HM	--	--	FR1	HM	1A/ A03.01	1B/ A03.01	5
203	FL1	3'-0"	7'-0"	1 3/4"	--	--	--	--	--	--	--	

DOOR GENERAL NOTES

GENERAL

- REFER TO DIVISION EIGHT (8) OF THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- CONFLICTS / DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CLARIFIED WITH THE ARCHITECT IMMEDIATELY UPON DISCOVERY. IF NO CLARIFICATION IS REQUESTED, THE CONTRACTOR SHALL PROVIDE THE MOST STRINGENT LISTED REQUIREMENT.
- DOORS, FRAMES, AND HARDWARE SHALL MEET THE LABEL REQUIREMENTS OF THE OPENING IN WHICH IT RESIDES. REFER TO THE LIFE SAFETY PLAN FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL COORDINATE WHERE DOORS / FRAMES / HARDWARE REQUIRE CONDUITS OR WIRING INSTALLED DURING FRAME INSTALLATION FOR ELECTRICAL CONNECTIONS FOR LOCKS, STRIKES, ETC.
- ALL EXTERIOR DOOR DETAILS SHALL FOLLOW METAL BUILDING MANUFACTURERS INSTRUCTIONS

DOORS

- PROVIDE FINISHED DOOR VERTICAL AND TOP EDGES SAME AS DOOR FACE FINISH.
- ALL DOORS SHALL HAVE STANDARD 5/8" UNDERCUT U.N.O.
- GLASS IN EXTERIOR HM DOORS SHALL BE INSULATED, TEMPERED.
- ALL EXTERIOR DOORS TO BE INSULATED HM.

FRAMES

- ALL FRAMES SHALL BE LEVEL 3, 16 GAUGE U.N.O.
- ALL EXTERIOR FRAMES SHALL BE GALVANIZED.
- ALL FRAMES SHALL BE FULLY WELDED. (KNOCK-DOWN FRAMES NOT PERMITTED.)
- AT EXTERIOR OPENINGS, PROVIDE FRAMES WITH FOAM-IN-PLACE INSULATION.
- CAULK DOOR FRAME AROUND THE FULL PERIMETER AND AT ALL FLOORS EXCEPT CARPETED AREAS.

HARDWARE

- ALL HARDWARE TO BE LEVER HANDLES U.N.O.
- TEXTURED (KNURLED) SURFACES REQUIRED ON DOOR HANDLES LEADING TO HAZARDOUS ROOMS.
- USE WALL MOUNTED DOOR STOPS WHERE POSSIBLE. OTHERWISE, PROVIDE HEAVY DUTY CONCEALED OVERHEAD DOOR STOPS.
- CONTRACTOR SHALL COORDINATE WITH OWNER ON FINAL KEYING REQUIREMENTS. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- PROVIDE POSTIVELY LATCHING EXIT DEVICES WHERE INDICATED.
- PROVIDE SMOKE LABELED GASKETING ON ALL FIRE / SMOKE RATED DOORS.
- PROVIDE ALUMINUM THRESHOLD, WEATHERSTRIPPING, DOOR BOTTOM, AND RAINDRIP AT ALL EXTERIOR HOLLOW METAL DOORS

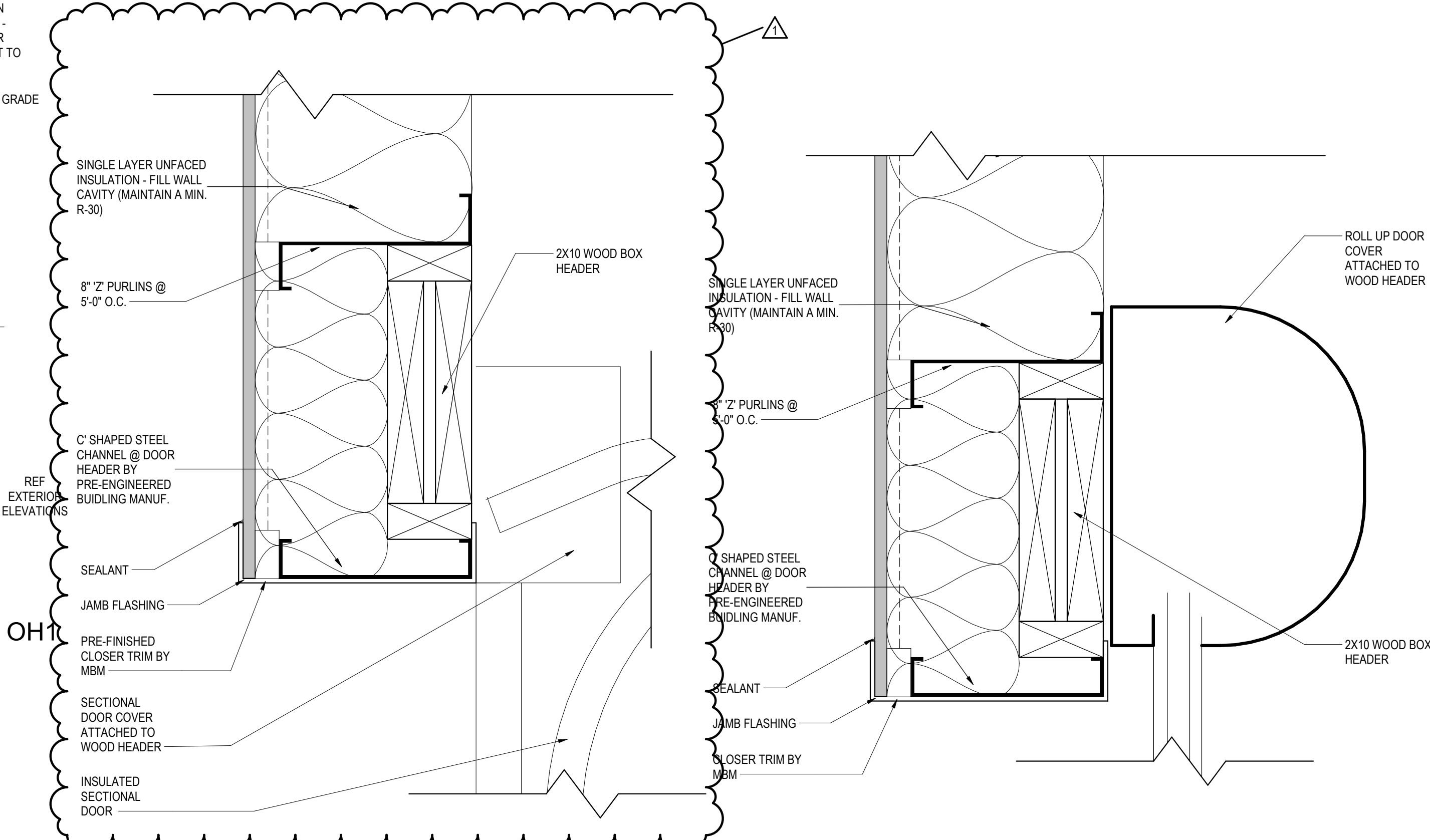
DOOR ABBREV.

- 1 - DOORS
- FL FLUSH
- HG HALF GLAZING
- HM HOLLOW METAL
- OH OVERHEAD DOOR
- 2 - FRAMES
- FR FRAME
- GA GAUGE
- HM HOLLOW METAL

- 4 - GLAZING
- IG INSULATED GLASS
- ITG INSULATED TEMPERED GLASS
- TG TEMPERED GLASS

DOOR KEYNOTES

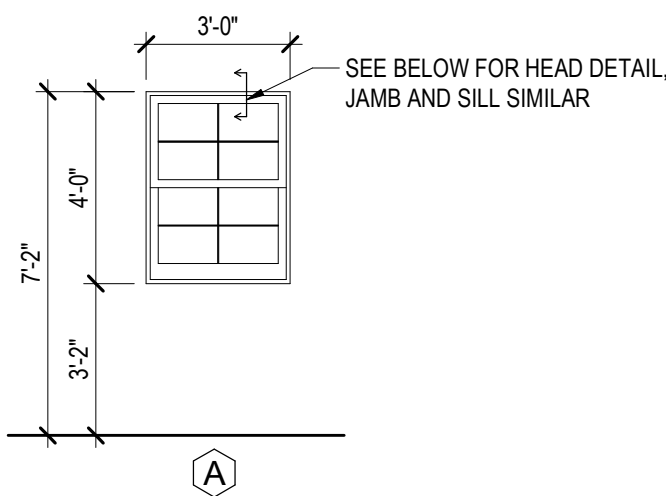
- DOOR & FRAME BY PRE-ENGINEERED BUILDING MANUF.
- ATTACHED OVERHEAD SECTIONAL DOOR TO PURLINS, ANGLE OVERHEAD TRACK TO FOLLOW ROOF SLOPE
- COORDINATE HEAD AND JAMB DETAILS WITH DOOR MANUF. AND PRE-ENGINEERED BUILDING MANUF.
- OFFICE: PROVIDE (4) HINGES, 1 OFFICE SET, KICK PLATE, MOP PLATE, WALL BUMPER, COAT HOOK, (3) DOOR SILENCERS
- TLT: PROVIDE (4) HINGES, 1 PRIVACY SET, KICK PLATE, MOP PLATE, WALL BUMPER, COAT HOOK, (3) DOOR SILENCERS
- EXTERIOR: PROVIDE: (3) HINGES, 1 EXIT DEVICE, 1 RIM CYLINDER, 1 DOOR CLOSER, 1 KICK PLATE, 1 WALL BUMPER, 1 DOOR SWEEP, 1 PERIMETER SEAL, 1 DRIP CAP, 1 THRESHOLD
- ATTACHED OVERHEAD COILING DOOR



6 COILING DOOR HEAD

4 COILING DOOR HEAD

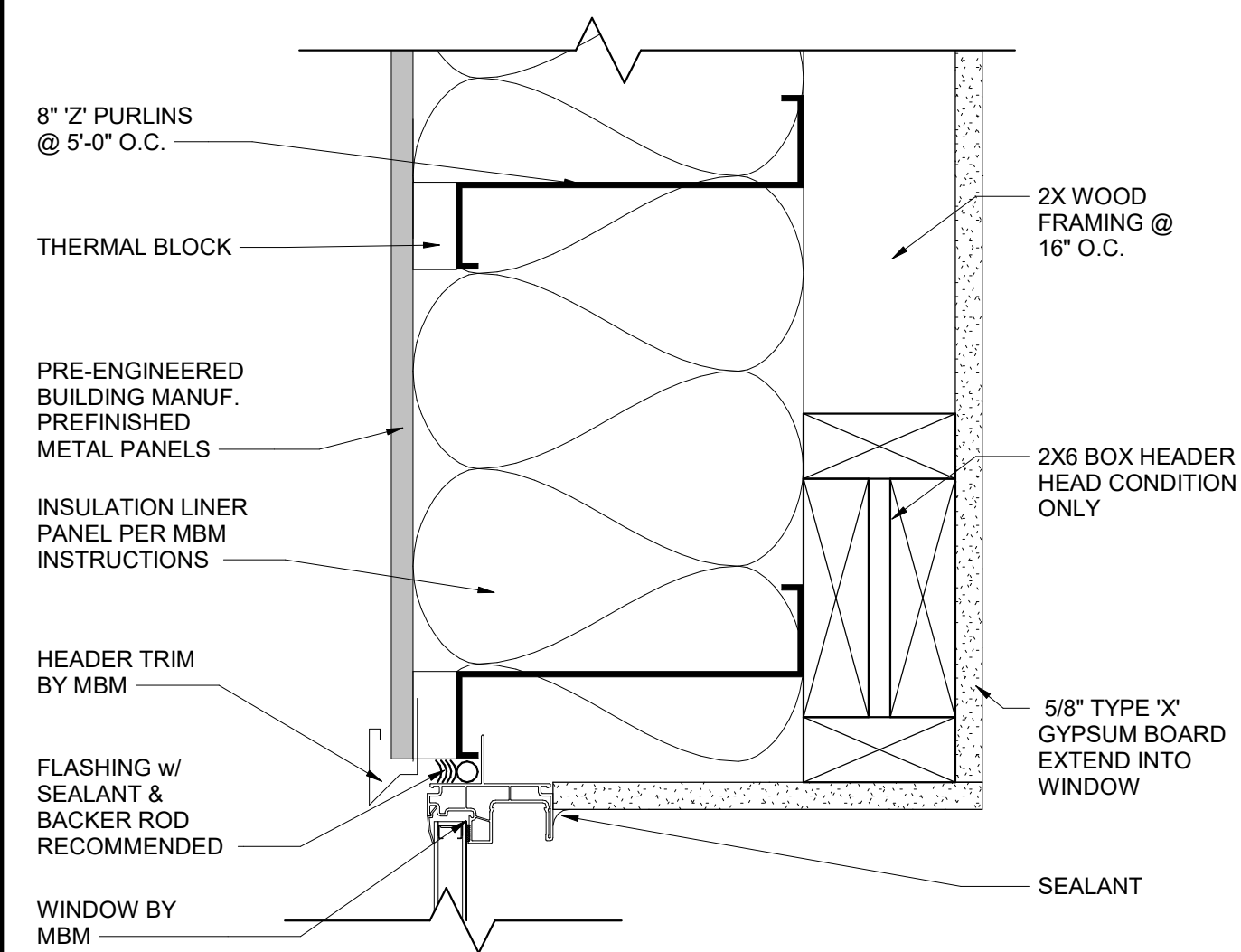
COILING DOOR OPENING TO BE FINISHED OUT BY MBM. REFER TO INSTALLATION INSTRUCTIONS FOR MORE INFORMATION



*BY PRE-ENGINEERED BUILDING MANUF.

WINDOW ELEVATIONS

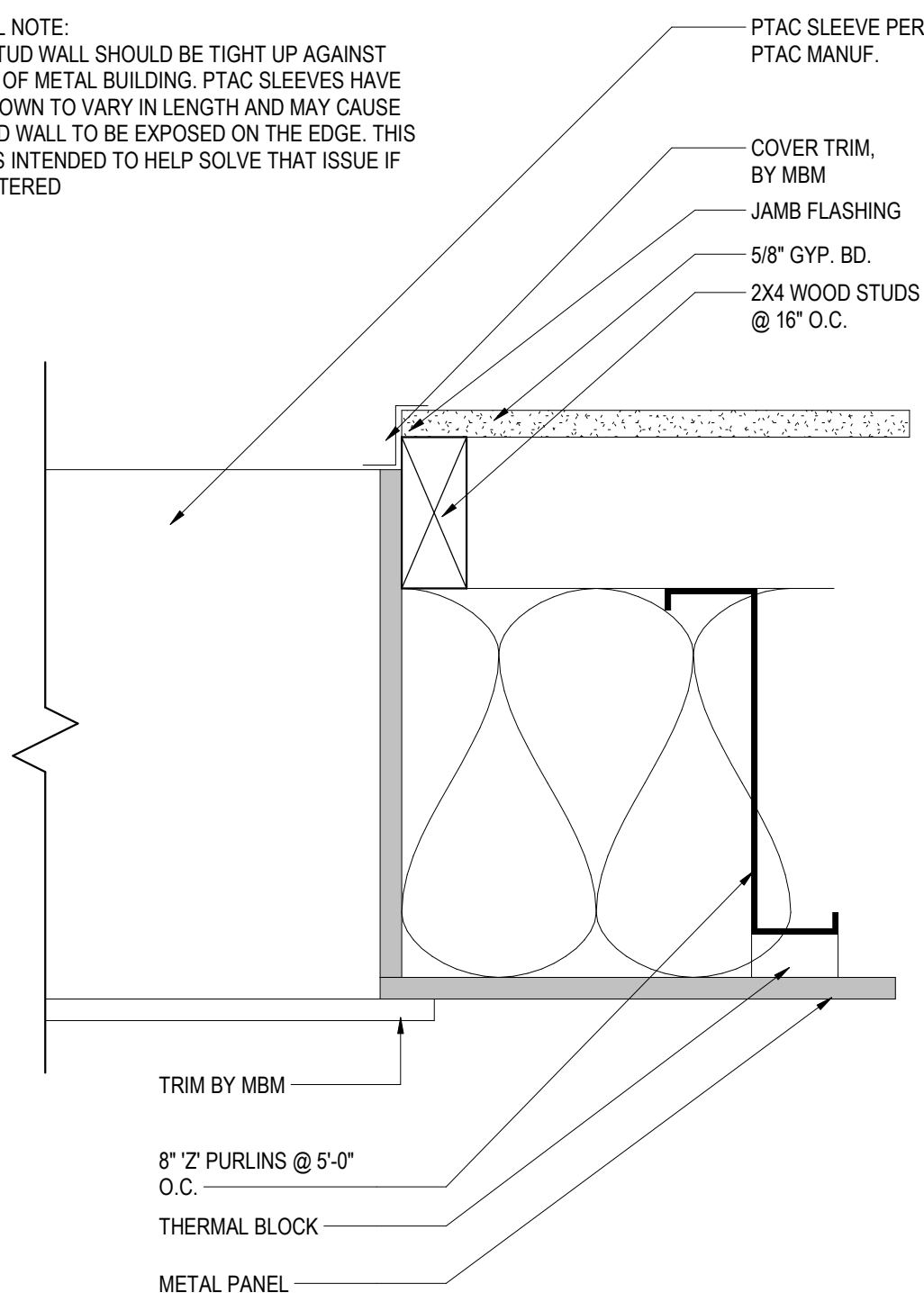
NOT TO SCALE



3 WINDOW DETAIL : HEAD DETAIL

SPECIFIC WINDOW DETAILS SUCH AS FLASHING/SEALANTS, ETC. ARE DETERMINED BY THE METAL BUILDING MANUFACTURERS INTALLATION DETAILS. THIS DETAIL INTENDS TO SHOW HOW THE FURRING WALL INTERACTS WITH THE METAL BUILDING. THE JAMB AND SILL CONDITIONS ARE SIMILAR

GENERAL NOTE:
WOOD STUD WALL SHOULD BE TIGHT UP AGAINST PURLINS OF METAL BUILDING. PTAC SLEEVES HAVE BEEN KNOWN TO VARY IN LENGTH AND MAY CAUSE THE STUD WALL TO BE EXPOSED ON THE EDGE. THIS DETAIL IS INTENDED TO HELP SOLVE THAT ISSUE IF ENCOUNTERED



5 JAMB - PTAC SLEEVE

PENETRATION DETAILS SUCH AS FLASHING/SEALANT TO BE PROVIDED PER THE MBM DETAILS AND INSTALLATIONS INSTRUCTIONS

PROJECT NO.		27999-3605-04			
PIN NO.		131119			
REVISIONS	DESCRIPTION	BY	DATE	AT	
REVISION 1			03/05/2025		

TDOT GIBSON COUNTY MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

DATE SEPTEMBER 29, 2023
PHASE CONSTRUCTION
PROJECT # 2023-11-09-02



214 Centerview Drive Suite 300
Brentwood, TN 37027
woldae.com phone: 615.370.8500
fax: 615.370.8530



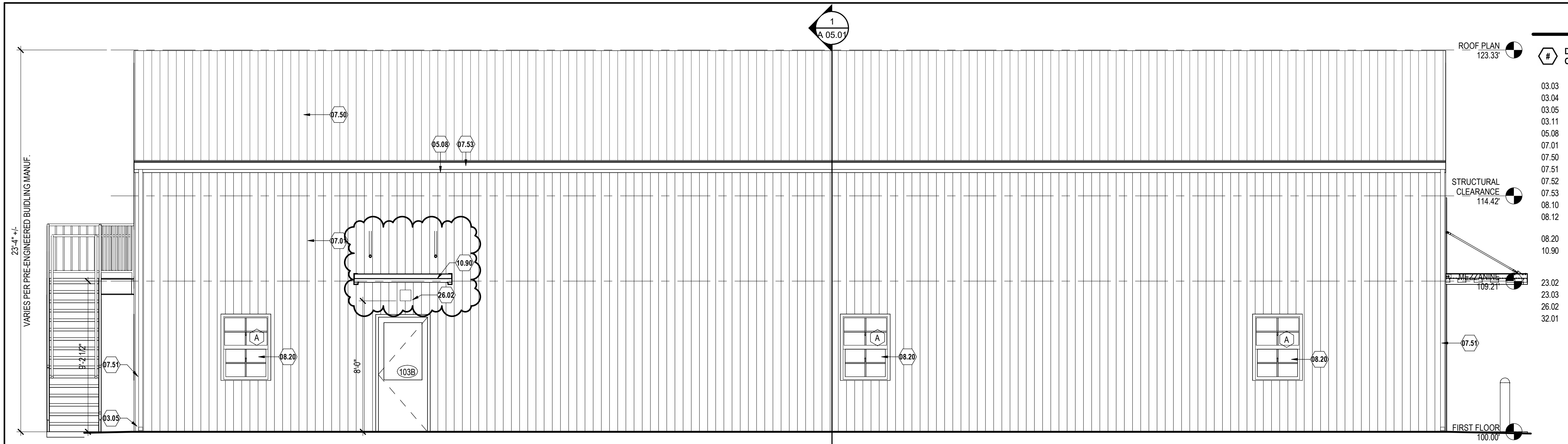
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com

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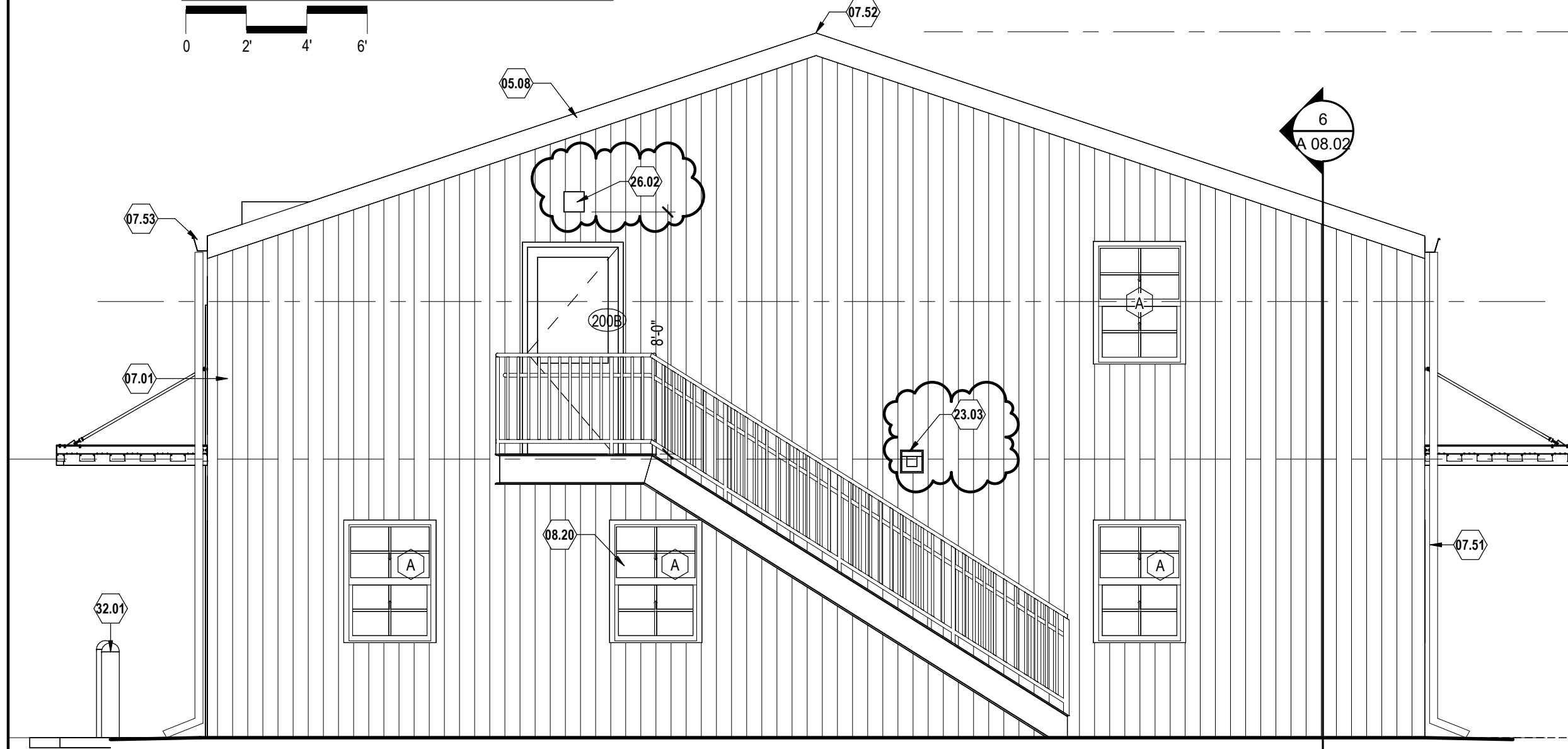


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

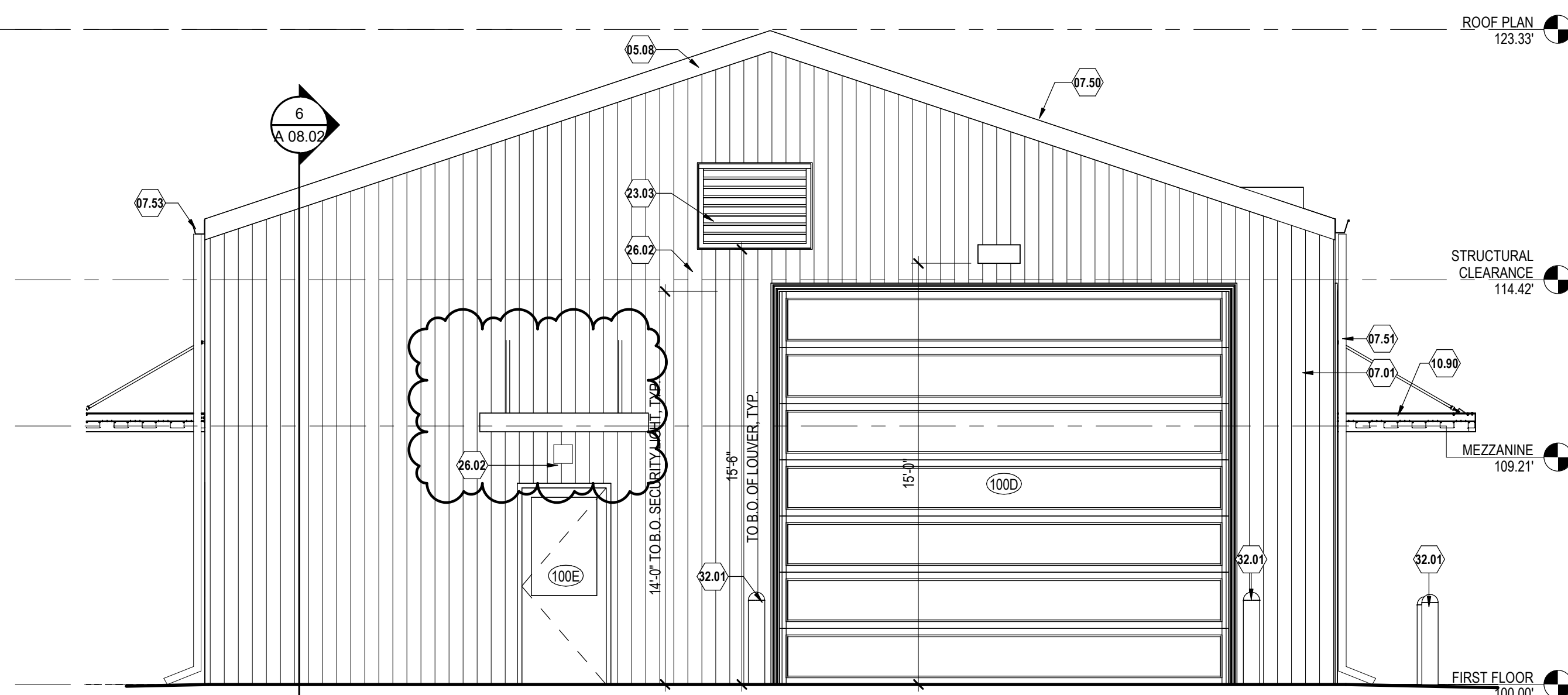
DOORS AND
WINDOWS
DTLS.
A 03.01



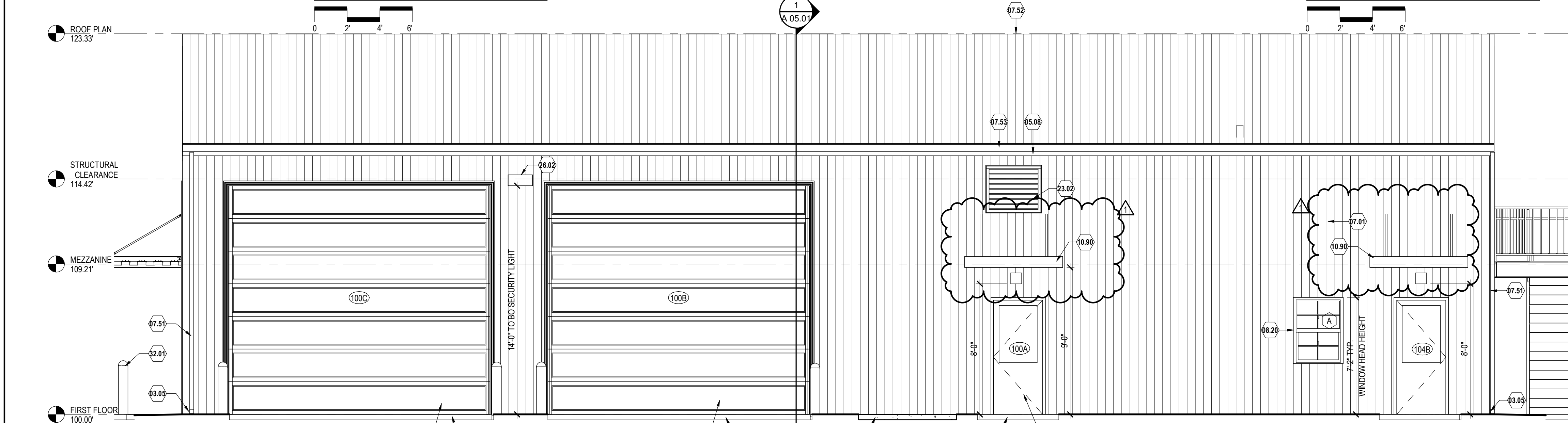
1 NORTH ELEVATION



2 EAST ELEVATION



3 WEST ELEVATION



4 SOUTH ELEVATION

KEYNOTE SCHEDULE

DENOTED BY A NUMBER ENCLOSED INSIDE A HEXAGON.
ONLY NOTES APPLICABLE TO THIS SHEET ARE SHOWN.

- 03.03 4'-0" D CONCRETE APRON, REF CIVIL
- 03.04 5'-0" x 5'-0" CONCRETE STOOP, REF CIVIL
- 03.05 PROVIDE PRECAST CONC. SPASH BLOCK, TYP.
- 03.11 6'-0" x 6'-0" CONCRETE STOOP, REF CIVIL
- 05.08 PREFINISHED METAL TRIM - TYP.
- 07.01 PRE-ENGINEERED BUILDING MANUF. PREFINISHED METAL WALL PANELS
- 07.50 PRE-ENGINEERED BUILDING MANUF. METAL ROOF PANEL
- 07.51 PRE-ENGINEERED BUILDING MANUF. DOWNSPOUT (DS)
- 07.52 RIDGE VENT BY PRE-ENGINEERED BUILDING MANUFACTURER
- 07.53 PRE-ENGINEERED BUILDING MANUF. GUTTER
- 08.10 SECTIONAL DOOR AND FRAME, REF SCHEDULE
- 08.12 PREFINISHED INSULATED METAL OVERHEAD SECTIONAL DOOR W/ MOTOR OPERATOR
- 08.20 SINGLE-HUNG WINDOW, TYP.; REF SCHEDULE
- 10.90 PRE-ENGINEERED CANOPY, WITH FINISH TO MATCH WINDOWS. SUSPEND CANOPY BACK TO FRAMING AND SECURE. CANOPY BY METAL BUILDING MANUFACTURER, REF. SPECS
- 23.02 EXHAUST FAN, REF MECH.
- 23.03 PRE-FINISHED METAL LOUVER WITH BIRD AND INSECT SCREEN, REF MECH.
- 26.02 SECURITY LIGHT, REF ELECTRICAL
- 32.01 6" DIAMETER CONC. FILLED STEEL BOLLARDS, TYP.

PROJECT NO.		27999-3605-04
PIN NO.		131119
REVISIONS	DATE	09/05/2025
	BY	AT
DESCRIPTION	REVISION 1	

TDOT GIBSON COUNTY MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

PHASE
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DATE
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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

BUILDING
ELEVATIONS

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SECTION

1. BOTTOM OF FLOOR FRAMING
2. JOINT TREATMENT MATERIAL
3. 2x WD STUD DOUBLE TOP PLATE
4. SCHEDULED CEILING

1. 2x WD STUD @ 16" O.C.
2. (1) LAYER 5/8" TYPE "X" GYPSUM WALLBOARD - STAGGER JOINTS
3. INSULATION - MIN. 3" THICK GLASS FIBER BATTS, FRICTION FITTED TO FILL CAVITY
4. 2x WD STUD BASE PLATE
5. CONTINUOUS SEALANT

GENERAL NOTES:

1. ALL REQUIREMENTS OF LISTED UL DESIGN # MUST BE MET.

FIRE RATING:

UL DESIGN #:

GA FILE #:

ABOVE CEILING ID (STENCIL):

STC RATING:

OPENINGS:

DAMPERS:

LIFE SAFETY PLAN DESIGNATION:

WALL PRIORITY:

NON RATED PARTITION

INTERIOR WALL TYPES

A1

A2

B

A1 - 4-3/4" PARTITION:

A2 - 6 3/4" PARTITION:

4-1/8" PARTITION:

EXTERIOR WALL TYPES

1

2

PRE-ENGINEERED BUILDING MANUF. PREFINISHED METAL WALL PANELS

VAPOR RETARDER

SINGLE LAYER UNFACED INSULATION - FILL WALL CAVITY (MAINTAIN A MIN. OF R-19)

8" Z' PURLINS @ 5'-0" O.C.

PRE-ENGINEERED BUILDING MANUF. PREFINISHED LINER PANELS TO 8'-0" A.F.F.

KEYNOTE SCHEDULE	
#	NOTED BY A NUMBER ENCLOSED INSIDE A HEXAGON. ONLY NOTES APPLICABLE TO THIS SHEET ARE SHOWN.
08.13	2X2' ACCESS PANEL
08.14	1'X1' ACCESS PANEL
10.01	PROVIDE MIRROR @ LAV, TYP.
10.02	FIBERGLASS SHOWER, SIMILAR TO OASIS SH-244/3SF
12.80	LOCKER ROOM BENCH, OFOI
22.01	FLOOR MOUNTED TOILET
22.03	EMERGENCY EYEWASH STATION
22.04	ELECTRIC WATER COOLER (EWC)
22.06	URINAL
22.07	COMPARTMENT SINK - SIMILAR TO: BD RESOURCES 1-COMPARTMENT BUDGET SINK, 24"X24"X14" DEEP, 8" FAUCET HOLES, GALVANIZED LEGS
22.10	WALL HUNG ADA COMPARTMENT SINK - JUST MANUFACTURING - JH-ADA-3020-S-CP - PROVIDE BLOCKING
26.01	PROVIDE SCENCE LIGHT @ LAV, TYP.

CEILING MATERIAL LEGEND:

GYPSUM BOARD

EXPOSED STRUCTURE

2x4 LIGHT FIXTURE - RECESSED, SUSPENDED OR SURFACE MOUNTED

2x2 LIGHT FIXTURE - RECESSED, SUSPENDED OR SURFACE MOUNTED

1x4 LIGHT FIXTURE - RECESSED, SUSPENDED OR SURFACE MOUNTED

LINEAR LIGHTING

SUPPLY GRILLE

RETURN GRILLE

EXHAUST GRILLE

ACCESS PANEL

DOWNLIGHT

DOWNLIGHT RECESSED

EXIT LIGHT SINGLE FACE

EXIT LIGHT DOUBLE FACE

WALL MOUNTED LIGHT FIXTURE

SMOKE DETECTOR

SPEAKER

HIGH BAY LIGHT FIXTURE

CEILING FIXTURES LEGEND:

2x4 LIGHT FIXTURE - RECESSED, SUSPENDED OR SURFACE MOUNTED

2x2 LIGHT FIXTURE - RECESSED, SUSPENDED OR SURFACE MOUNTED

1x4 LIGHT FIXTURE - RECESSED, SUSPENDED OR SURFACE MOUNTED

LINEAR LIGHTING

SUPPLY GRILLE

RETURN GRILLE

EXHAUST GRILLE

ACCESS PANEL

DOWNLIGHT

DOWNLIGHT RECESSED

EXIT LIGHT SINGLE FACE

EXIT LIGHT DOUBLE FACE

WALL MOUNTED LIGHT FIXTURE

SMOKE DETECTOR

SPEAKER

HIGH BAY LIGHT FIXTURE

GENERAL WALL NOTES

REFERENCE WALL TYPE DETAILS, PLANS, AND SPECIFICATIONS.

1. ALL WALLS SHALL BE 3-1/2" WOOD STUDS

2. GYPSUM BOARD REQUIREMENTS:

- ALL GYPSUM BOARD SHALL BE 5/8" TYPE "X" U.N.O.
- PROVIDE FIRE RATED GLASS FIBER FACED GYPSUM PANELS ON INTERIOR SURFACE OF EXTERIOR WALLS, TOILET ROOMS, JANITOR'S CLOSETS, MECHANICAL SPACES, AND WITHIN 4'-0" OF WATER SOURCES.
- PROVIDE FIRE RATED IMPACT RESISTANT GYPSUM BOARD 4'-0" AT SERVICE AREA SIDE OF WALL (IMPACT RESISTANT GYPSUM BOARD SHALL TAKE PRIORITY AT LOCATIONS INDICATED TO RECEIVE GLASS FIBER FACED GYPSUM PANELS.)

3. ALL FRAMING SHALL BE 20 GA U.N.O.

4. STAGGER JOINTS ON OPPOSITE SIDES OF PARTITIONS.

5. PROVIDE ACOUSTICAL INSULATION FULL HEIGHT IN ALL WALLS U.N.O.

6. INSTALL ACOUSTICAL GASKETS AT FLOOR AND CEILING TRACK LOCATIONS.

7. EXTEND ALL WALL CONSTRUCTION TO THE DECK ABOVE AND SEAL U.N.O.

8. DO NOT TRANSFER DEFLECTION FROM STRUCTURAL BUILDING MEMBERS TO STUDS. CONTRACTOR'S OPTION, PROVIDE EITHER OF THE FOLLOWING:

- MAINTAIN CLEARANCE UNDER STRUCTURAL BUILDING MEMBERS TO AVOID DEFLECTION TRANSFER TO STUDS. PROVIDE EXTENDED LEG CEILING RUNNERS.
- PROVIDE DEFLECTION AND BRIDGING CLIPS.

9. GYPSUM PANELS SHALL BE PLACED A MINIMUM OF 1/4" ABOVE FLOOR AND SHALL BE CUT WITHIN 1/4" MAX TOLERANCE TO SHAPE OF DECK OR STRUCTURE ABOVE. GAPS BETWEEN PANELS SHALL BE <1/4".

10. PENETRATIONS IN WALLS SHALL BE SEALED AS REQUIRED BY THE WALL RATING PER AN APPROVED UL DESIGN.

GENERAL CEILING NOTES

CEILINGS ARE DIRECT APPLIED TO UNDERSIDE OF MEZZANINE FLOOR FRAMING (8'-2" TYP.)

ALL WORK

1. COORDINATE ABOVE CEILING DUCTWORK, PIPES, ETC. TO MEET CEILING HEIGHTS AS SHOWN ON DRAWINGS.

2. SAFETY WIRES FOR LIGHTING, MPE, AND OTHER ITEMS:

- FOR LIGHT FIXTURES, MECHANICAL ITEMS AND ATTACHMENTS WITH A COMBINED WEIGHT OF 56 POUNDS OR LESS, PROVIDE POSITIVE ATTACHMENT WITH TWO DEVICES PLUS TWO SLACK WIRES AT DIAGONAL CORNERS.
- FOR LIGHT FIXTURES AND MECHANICAL ITEMS WITH A COMBINED WEIGHT GREATER THAN 56 POUNDS, ATTACH SEPARATE WIRES (4 MINIMUM) TO INDEPENDENTLY SUPPORT FIXTURES FROM STRUCTURE. DO NOT INSTALL FIXTURES SUCH THAT SUPPORT FOR FIXTURES COMES FROM CEILING GRID.

3. CEILING MATERIALS ARE AS SHOWN. REFER TO SPECIFICATIONS FOR SPECIFICS REGARDING TYPES OF FINISHES.

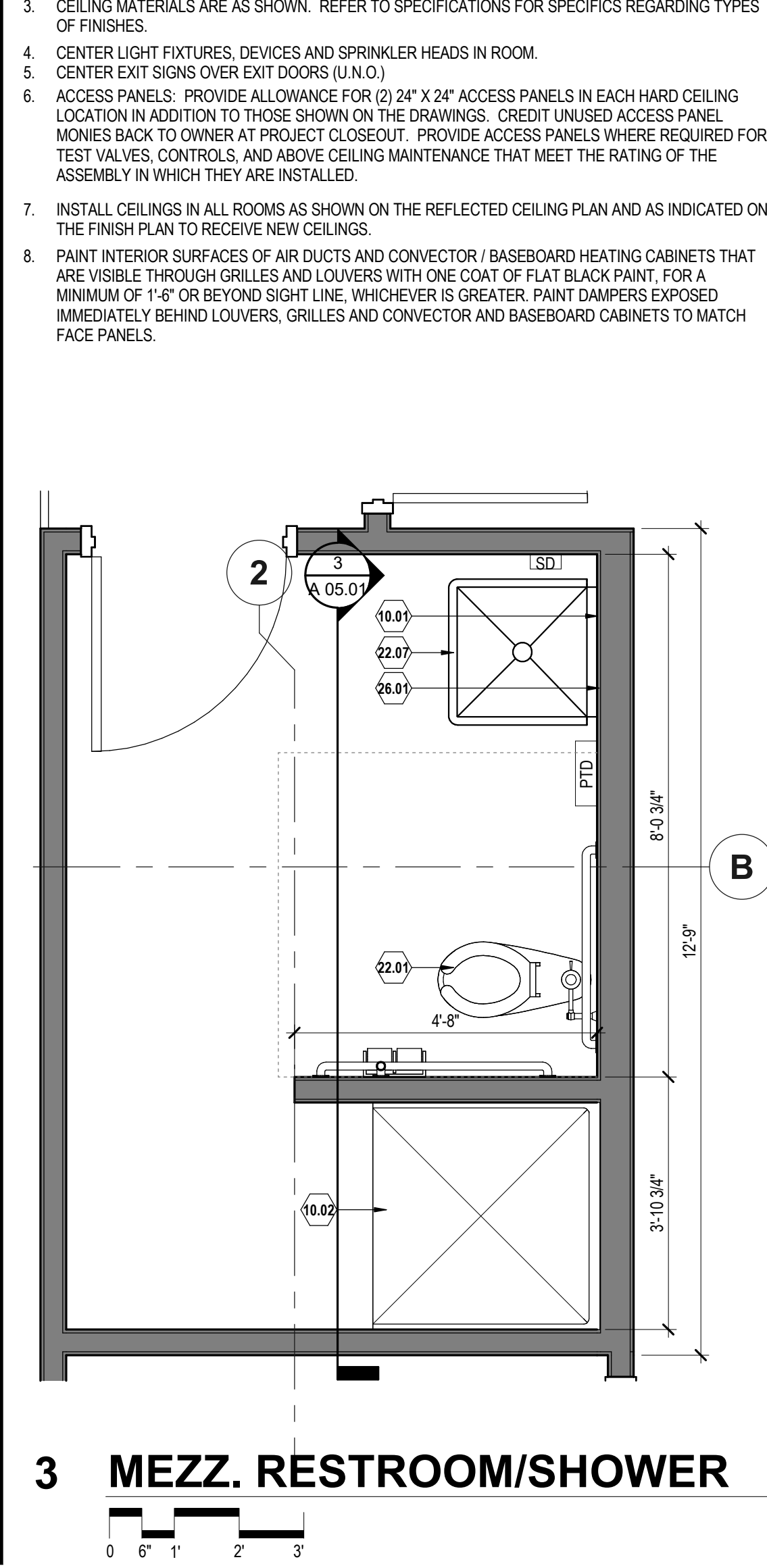
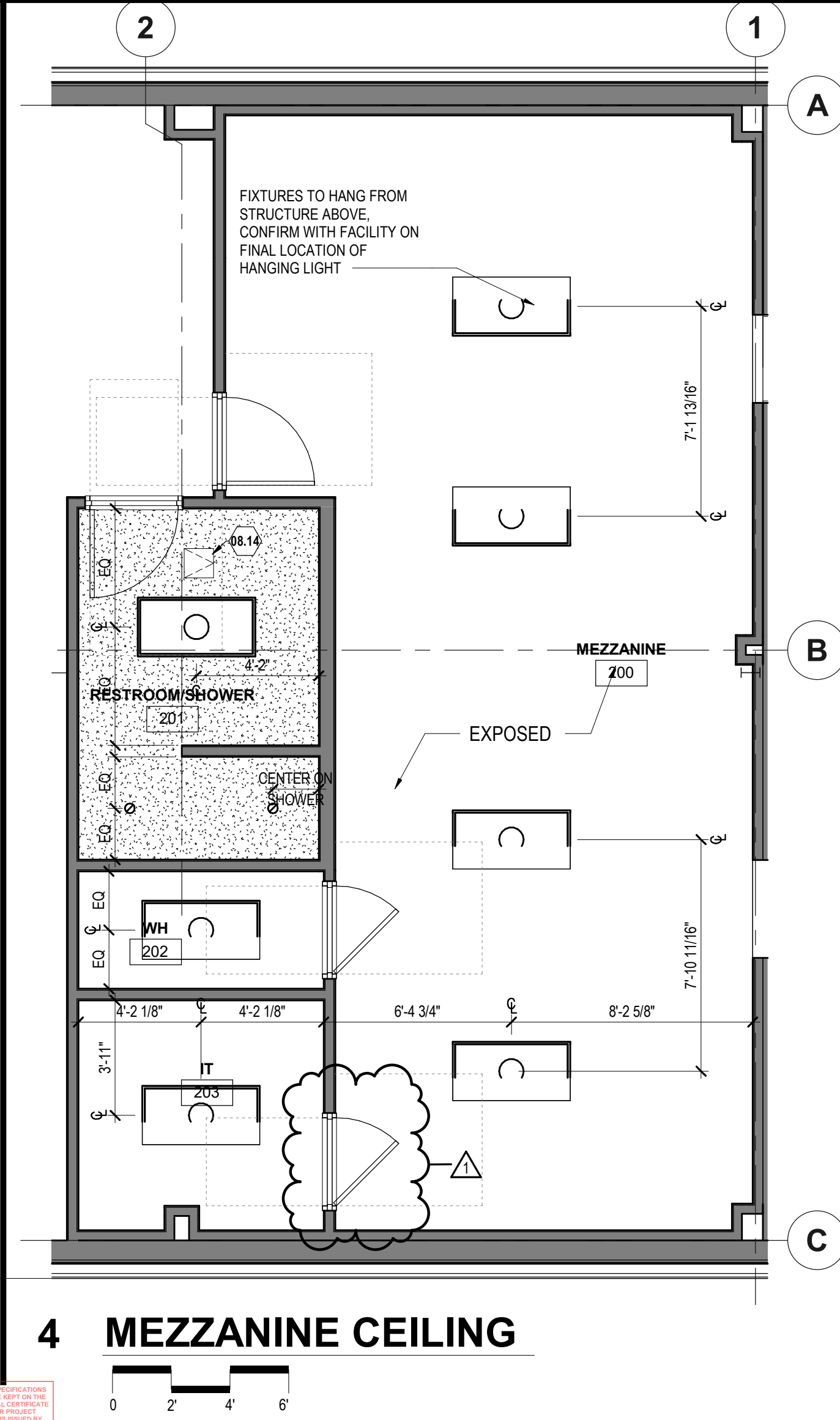
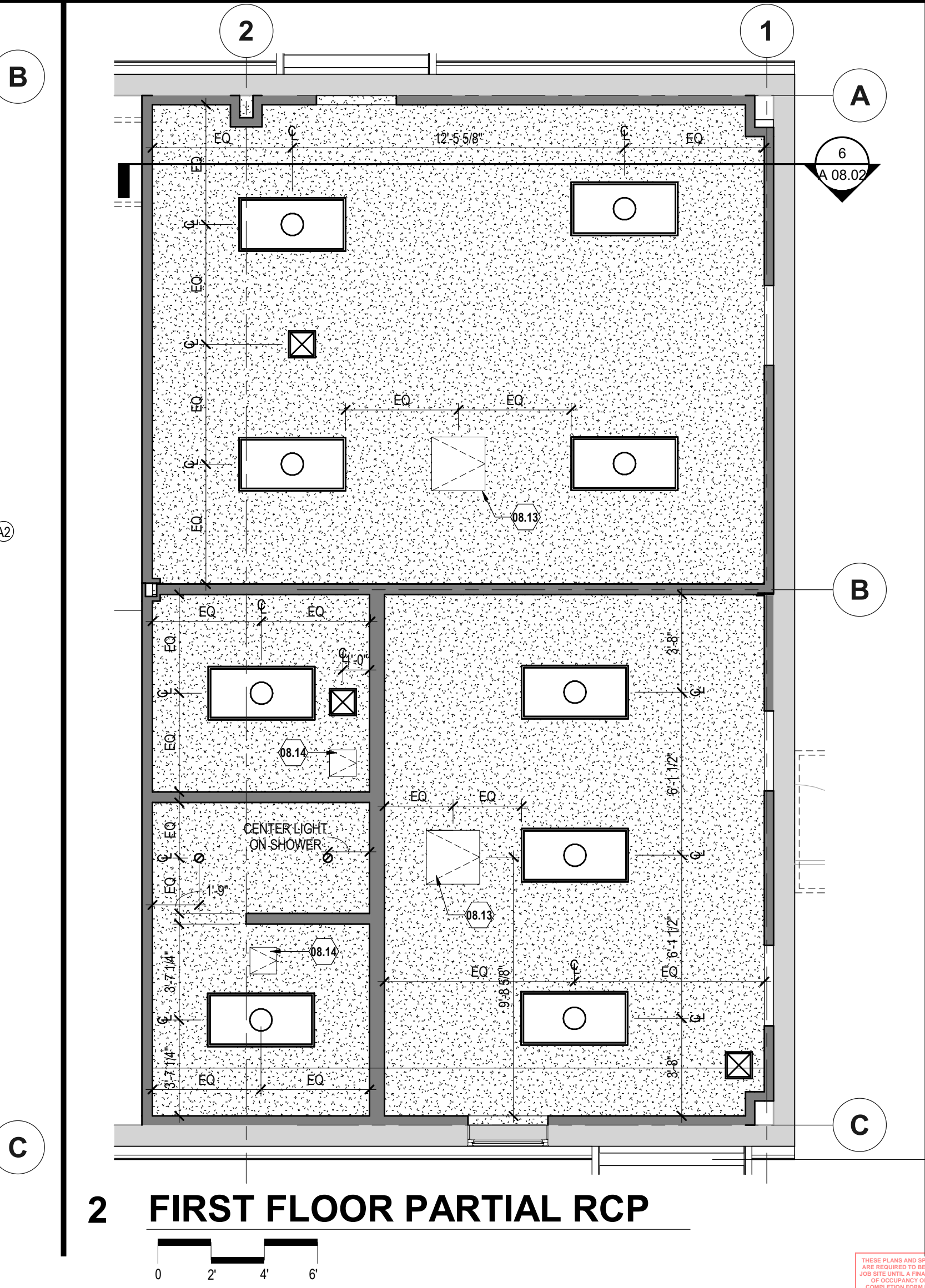
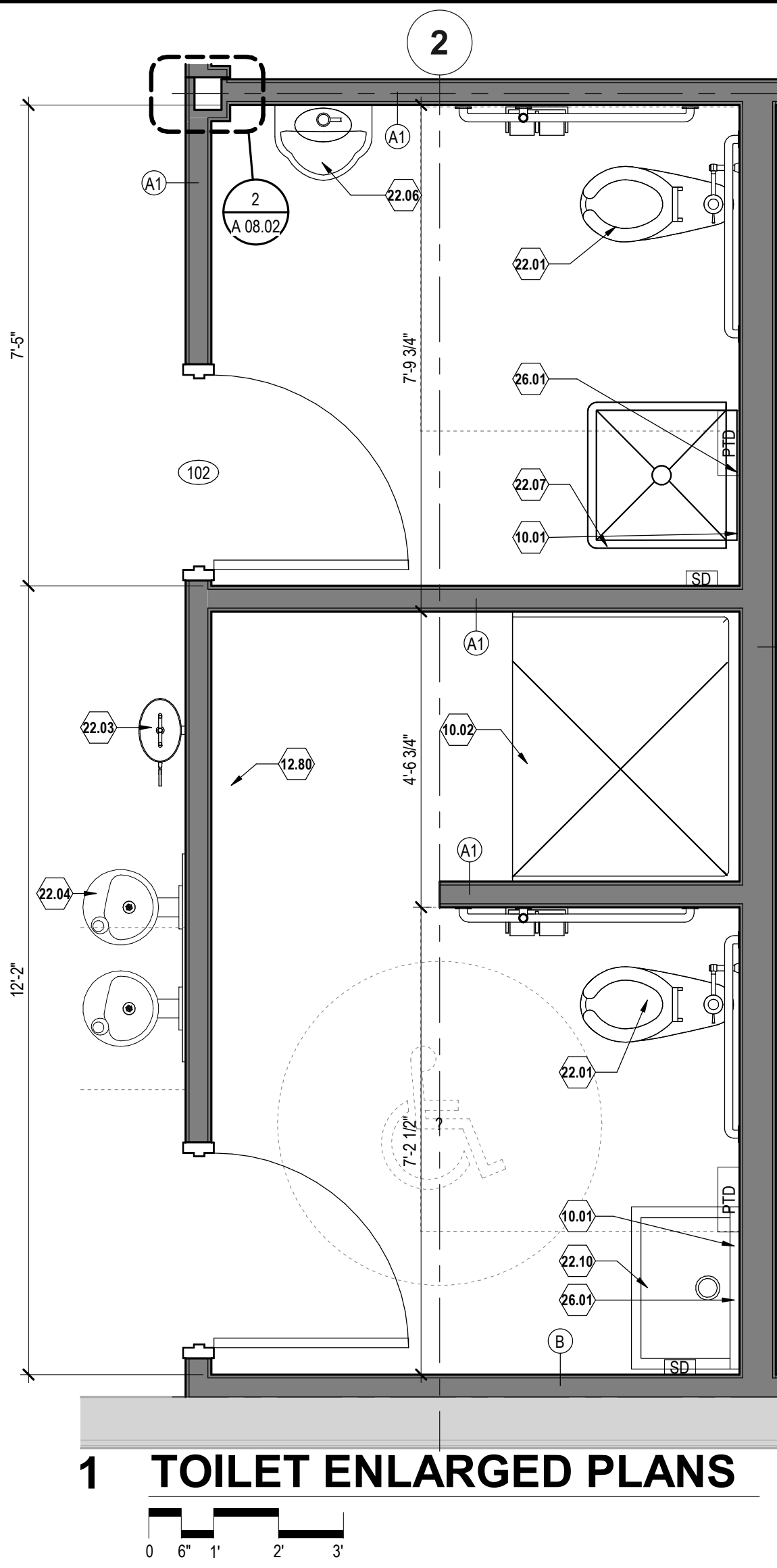
4. CENTER LIGHT FIXTURES, DEVICES AND SPRINKLER HEADS IN ROOM.

5. CENTER EXIT SIGNS OVER EXIT DOORS (U.N.O.)

6. ACCESS PANELS - PROVIDE ALLOWANCE FOR (2) 24" X 24" ACCESS PANELS IN EACH HARD CEILING LOCATION IN ADDITION TO THOSE SHOWN ON THE DRAWINGS. CREDIT UNUSED ACCESS PANEL MONIES BACK TO OWNER AT PROJECT CLOSEOUT. PROVIDE ACCESS PANELS WHERE REQUIRED FOR TEST VALVES, CONTROLS, AND ABOVE CEILING MAINTENANCE THAT MEET THE RATING OF THE ASSEMBLY IN WHICH THEY ARE INSTALLED.

7. INSTALL CEILINGS IN ALL ROOMS AS SHOWN ON THE REFLECTED CEILING PLAN AND AS INDICATED ON THE FINISH PLAN TO RECEIVE NEW CEILINGS.

8. PAINT INTERIOR SURFACES OF AIR DUCTS AND CONVECTOR / BASEBOARD HEATING CABINETS THAT ARE VISIBLE THROUGH GRILLES AND LOUVERS WITH ONE COAT OF FLAT BLACK PAINT. FOR A MINIMUM OF 1'-6" OR BEYOND SIGHT LINE, WHICHEVER IS GREATER. PAINT DAMPERS EXPOSED IMMEDIATELY BEHIND LOUVERS, GRILLES AND CONVECTOR AND BASEBOARD CABINETS TO MATCH FACE PANELS.



PROJECT NO. 27999-3605-04

PIN NO. 131119

REVISIONS

DATE 09/09/2025

DESCRIPTION

TDOT GIBSON COUNTY MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW, TRENTON, TN 38382

DATE SEPTEMBER 29, 2023

PHASE CONSTRUCTION

PROJECT # 2023-11-09-02

FIELD SET TFM # 21267

Wold

214 Centerview Drive Suite 300
Brentwood, TN 37027
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MARK ANTHONY

REGISTERED ARCHITECT

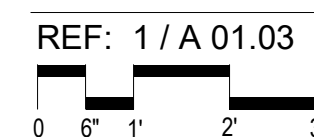
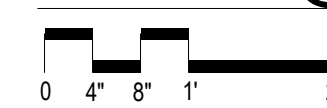
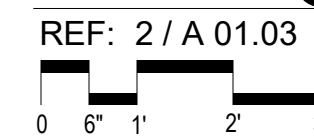
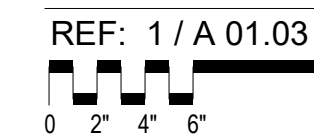
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STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

MISC. DETAILS

A 08.01



TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

PHASE
CONSTRUCTION
SEPTEMBER 29, 2023
PROJECT # 2023-11-09-02

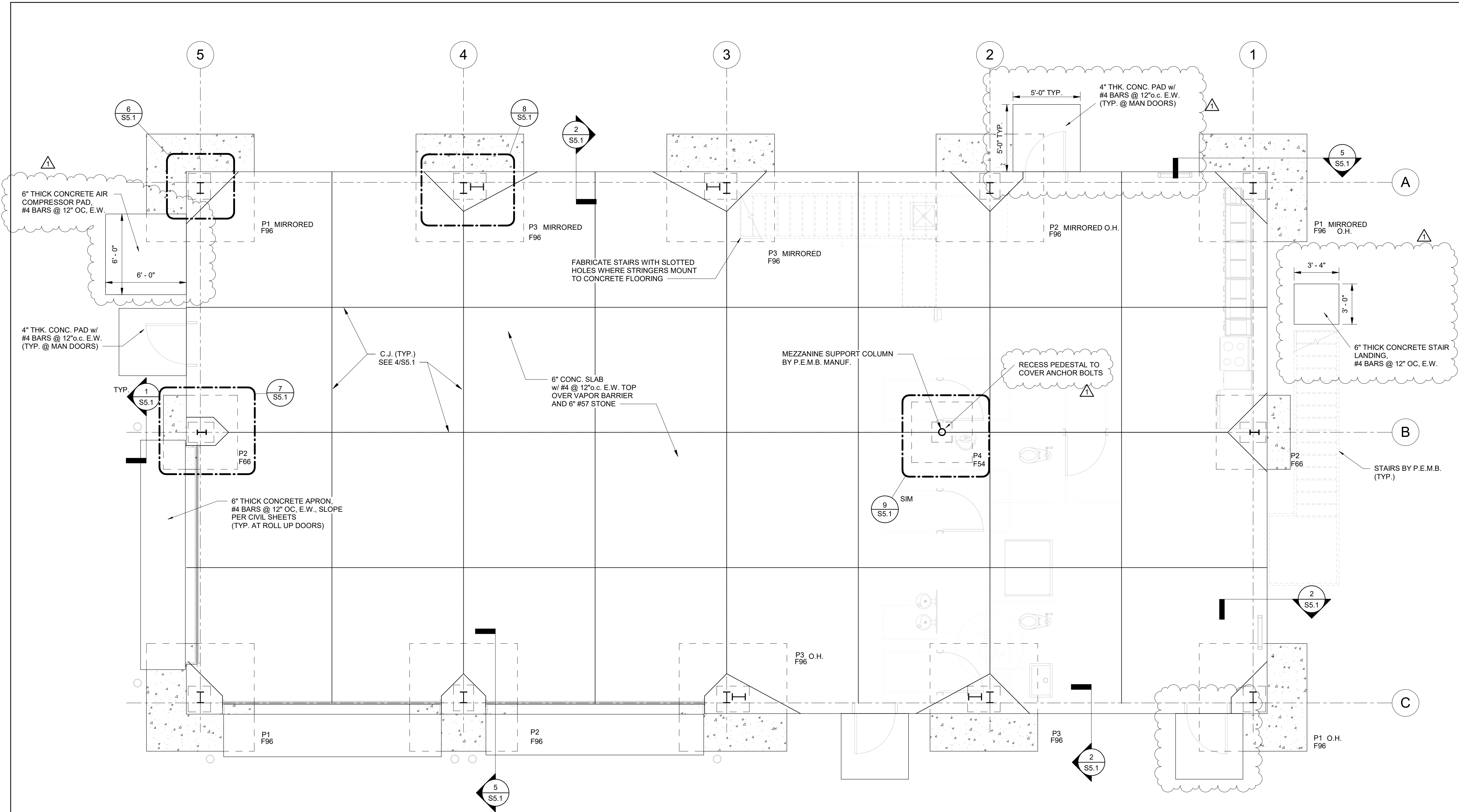


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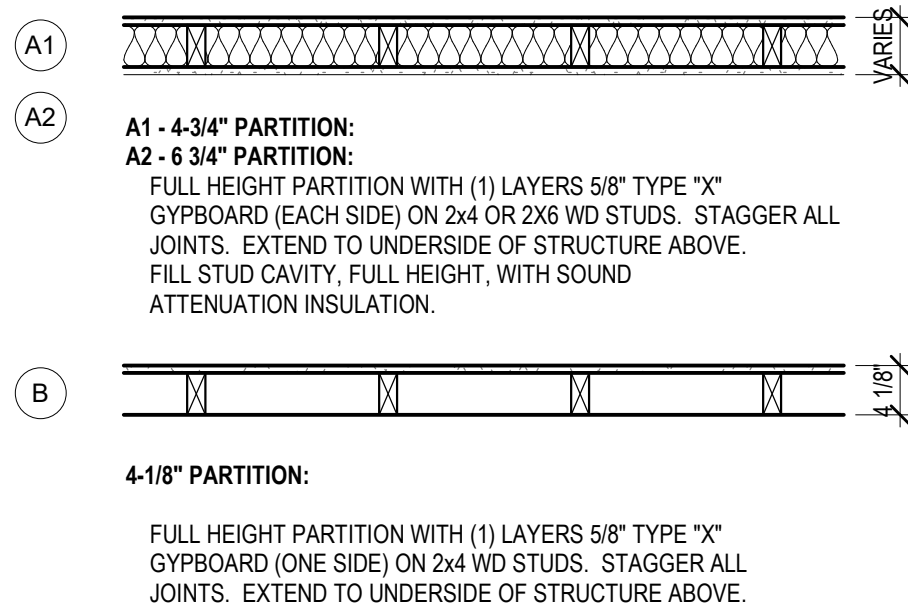
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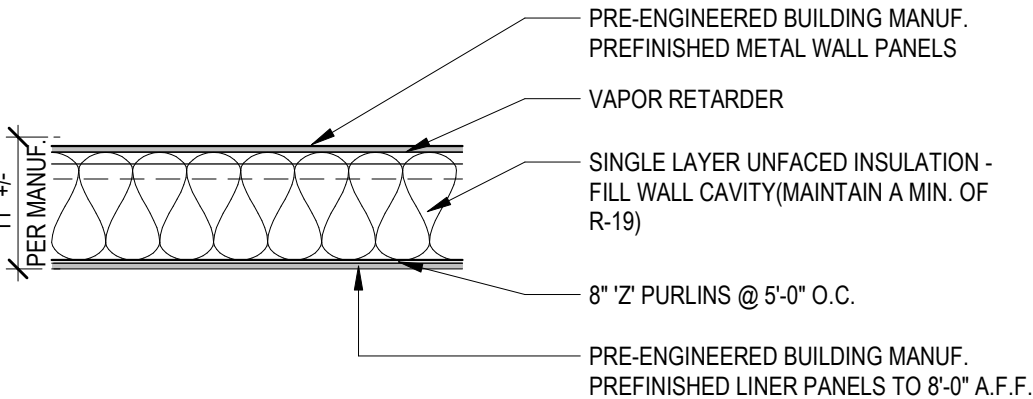
TENNESSEE STATE FIRE MARSHAL'S OFFICE



INTERIOR WALL TYPES



EXTERIOR WALL TYPES



FOUNDATION PLAN

- 1/4" = 1'-0"
- NOTES:
- SEE CIVIL DWG. FOR F.F.E.
 - SLAB CONTROL JOINTS NOT TO EXCEED AND AREA OF 400 SQ. FEET IN AS SQUARE A PATTERN AS POSSIBLE.
 - SEE GENERAL NOTES FOR INFO NOT SHOWN ON PLAN.
 - SEE ARCH. DWG. FOR DIMENSIONS NOT SHOWN.
 - CONTRACTOR HAS OPTION TO USE W.W.F. 6x6 xW2.9xW2.9 IN LIEU OF #4 BARS IN THE 6" SLAB OF THE OFFICE AREAS ONLY. AREAS SUBJECT TO VEHICLE LOADING SHALL BE REINFORCED AS SHOWN ON PLAN ONLY.

PIER SCHEDULE

REMARKS:				
A. TWO (2) SETS OF TIES.				
B. THREE (3) SETS OF TIES.				
C. SEE DETAILS.				
MARK	WIDTH	LENGTH	REINFORCEMENT	REMARKS
P1	1' - 6"	1' - 6"	SEE DETAIL FOR REINF.	SEE DETAIL FOR TIES
P2	1' - 6"	1' - 11"	SEE DETAIL FOR REINF.	SEE DETAIL FOR TIES
P3	1' - 11"	2' - 5"	SEE DETAIL FOR REINF.	SEE DETAIL FOR TIES
P4	1' - 6"	1' - 6"	SEE DETAIL FOR REINF.	SEE DETAIL FOR TIES

ISOLATED FOOTING SCHEDULE

REMARKS:					
A. TERMINATE ALL BARS WITH ACI STANDARD HOOKS.					
B. TERMINATE TOP BARS ONLY WITH ACI STANDARD HOOKS.					
MARK	WIDTH	LENGTH	THK.	REINFORCEMENT	REMARKS
F54	4' - 6"	4' - 6"	12"	(4) #5 E.W. - BTM.	A
F66	5' - 6"	5' - 6"	12"	(5) #5 E.W. TOP & BTM.	A
F96	8' - 0"	8' - 0"	12"	(9) #6 E.W. TOP & BTM.	A

PROJECT NO.		27999-3605-04
PIN NO.		131119
REVISIONS	DATE	3/5/2025
	BY	
DESCRIPTION	REVISION 1	

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

PHASE
CONSTRUCTION
SEPTEMBER 29, 2023
PROJECT # 2023-11-09-02

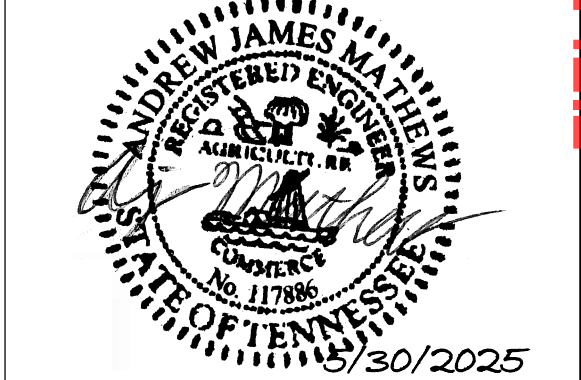
Wold **HFR** DESIGN

214 Centerview Drive Suite 300
Brentwood, TN 37027
wolda.com phone: 615.370.8500 fax: 615.370.8530

SSR Smith Seckman Reid, Inc.

2650 Thousand Oaks Boulevard,
Suite 4200
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(901) 683-3900
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www.ssr-inc.com
SSR Project #:

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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

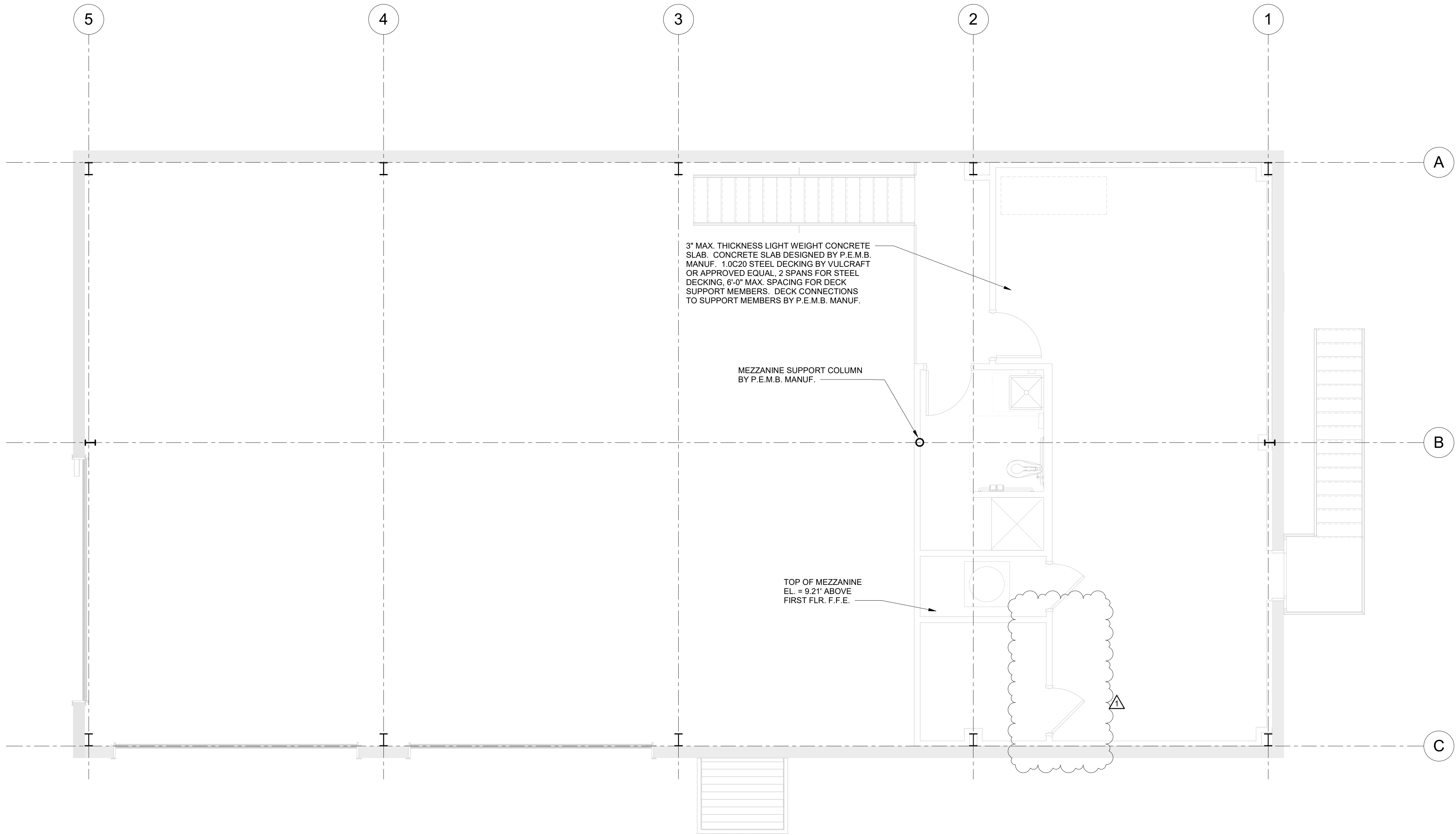
FOUNDATION
PLAN

S1.0

THESE PLANS AND SPECIFICATIONS ARE PROVIDED TO BE PART OF THE JOB CONTRACT. A FINAL CERTIFICATE OF OCCUPANCY OR PROCEEDING TO CONSTRUCTION IS REQUIRED.

No alterations, deletions, or additions of any kind shall be made without the written approval of the design engineer or architect.

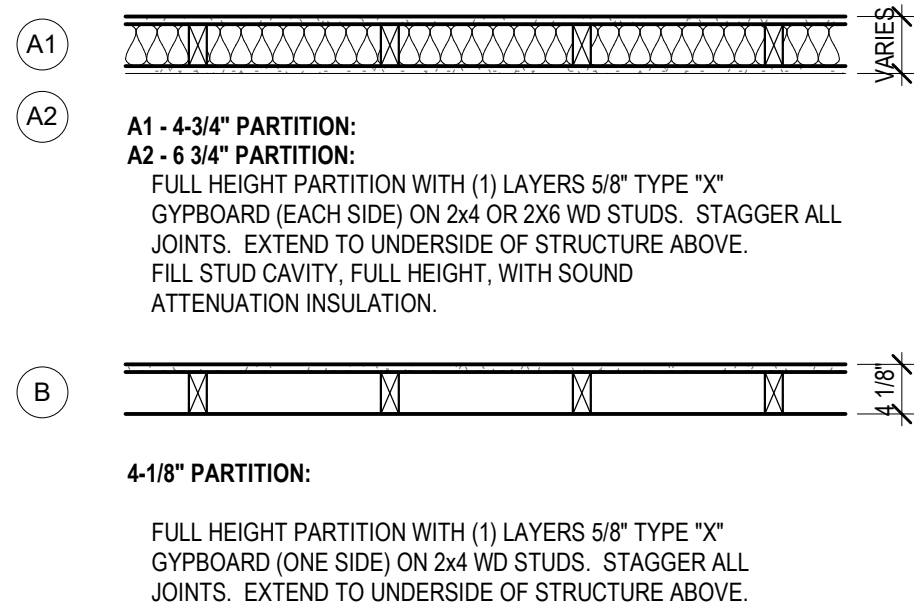
UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE OF THE BEST QUALITY AVAILABLE.



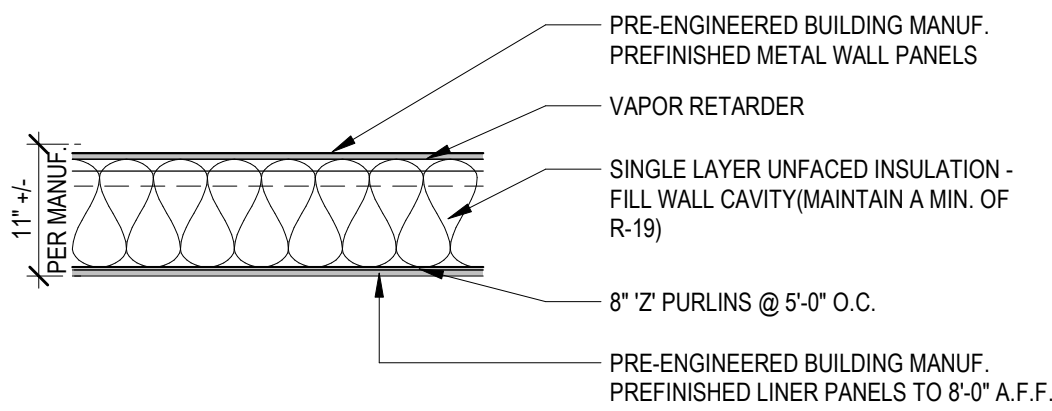
MEZZANINE PLAN

- 1/4" = 1'-0"
- NOTES:
1. MEZZANINE TO BE DESIGNED BY P.E.M.B. MANUF.
 2. MEZZANINE TO BE DESIGNED FOR THE FOLLOWING:
a) 60 PSF LIVE LOAD ALLOWANCE
b) 18 PSF COLLATERAL LOAD ALLOWANCE
c) APPROPRIATE DEAD LOADS FOR FRAMING AND CONCRETE DECK.
3. SEE PLUMBING DWGS. FOR REQ'D. PENETRATIONS.
4. A MINIMUM CEILING HEIGHT OF 8'-0" SHALL BE MAINTAINED UNDERNEATH MEZZANINE.

INTERIOR WALL TYPES



EXTERIOR WALL TYPES



THESE PLANS AND SPECIFICATIONS ARE ISSUED TO BE PART OF THE JOB SET. THIS A FINAL CERTIFICATE OF OCCUPANCY OR PROSPECTIVE OWNER'S CERTIFICATE OF OCCUPANCY.

No alterations, deletions, additions or modifications are to be made without the approval of the architect and the manufacturer of the building system.

UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE AS SHOWN.

PROJECT NO.		27999-3605-04	
PIN NO.		131119	
REVISIONS	DESCRIPTION	BY	DATE
	REVISION 1		3/5/2025

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

PHASE
CONSTRUCTION
DATE
SEPTEMBER 29, 2023
PROJECT # 2023-11-09-02

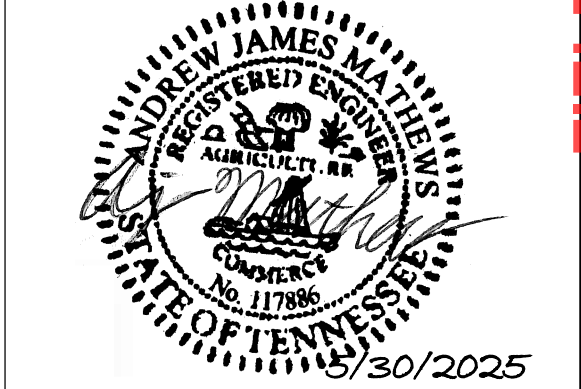


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SSR Project #: --

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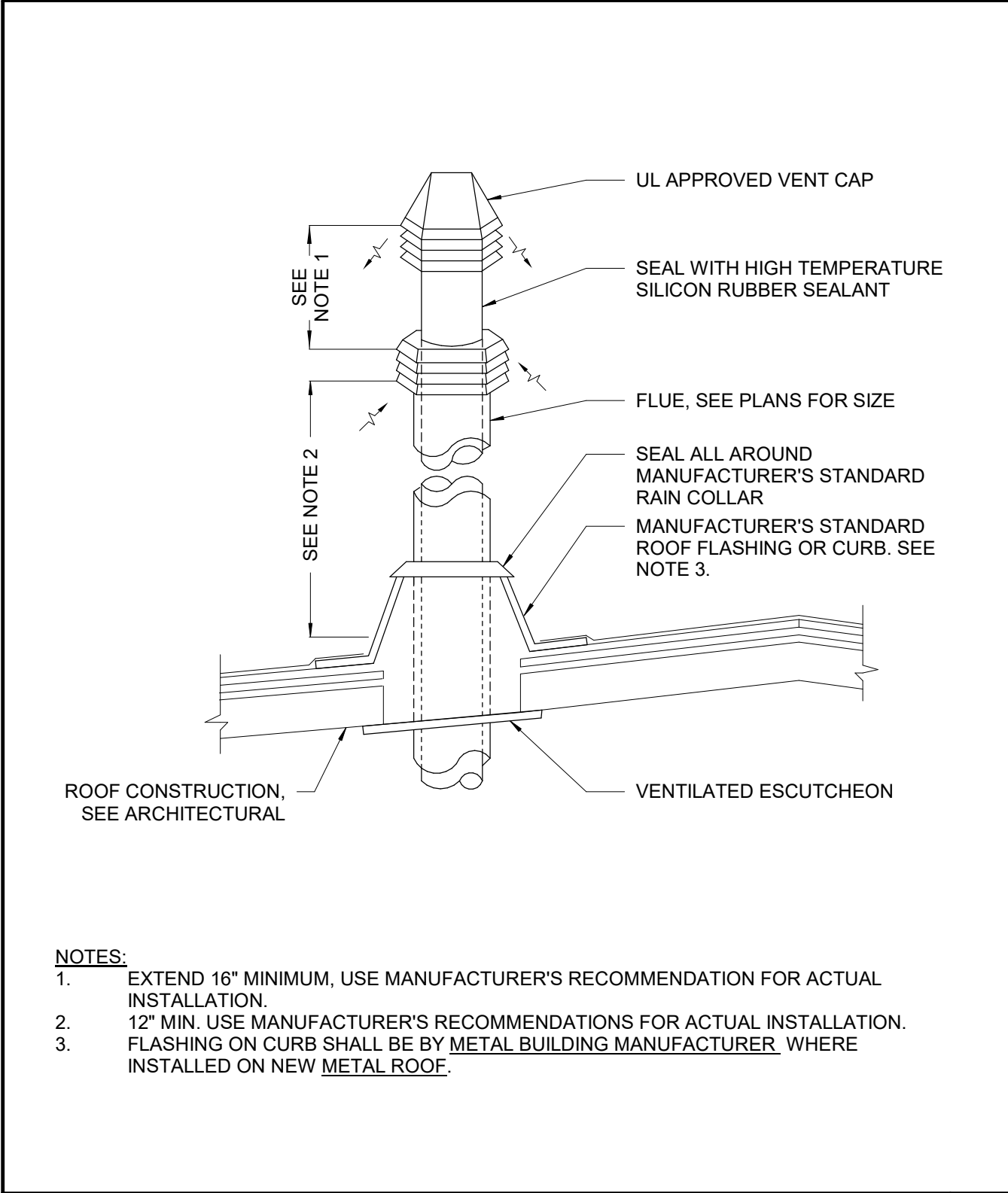


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

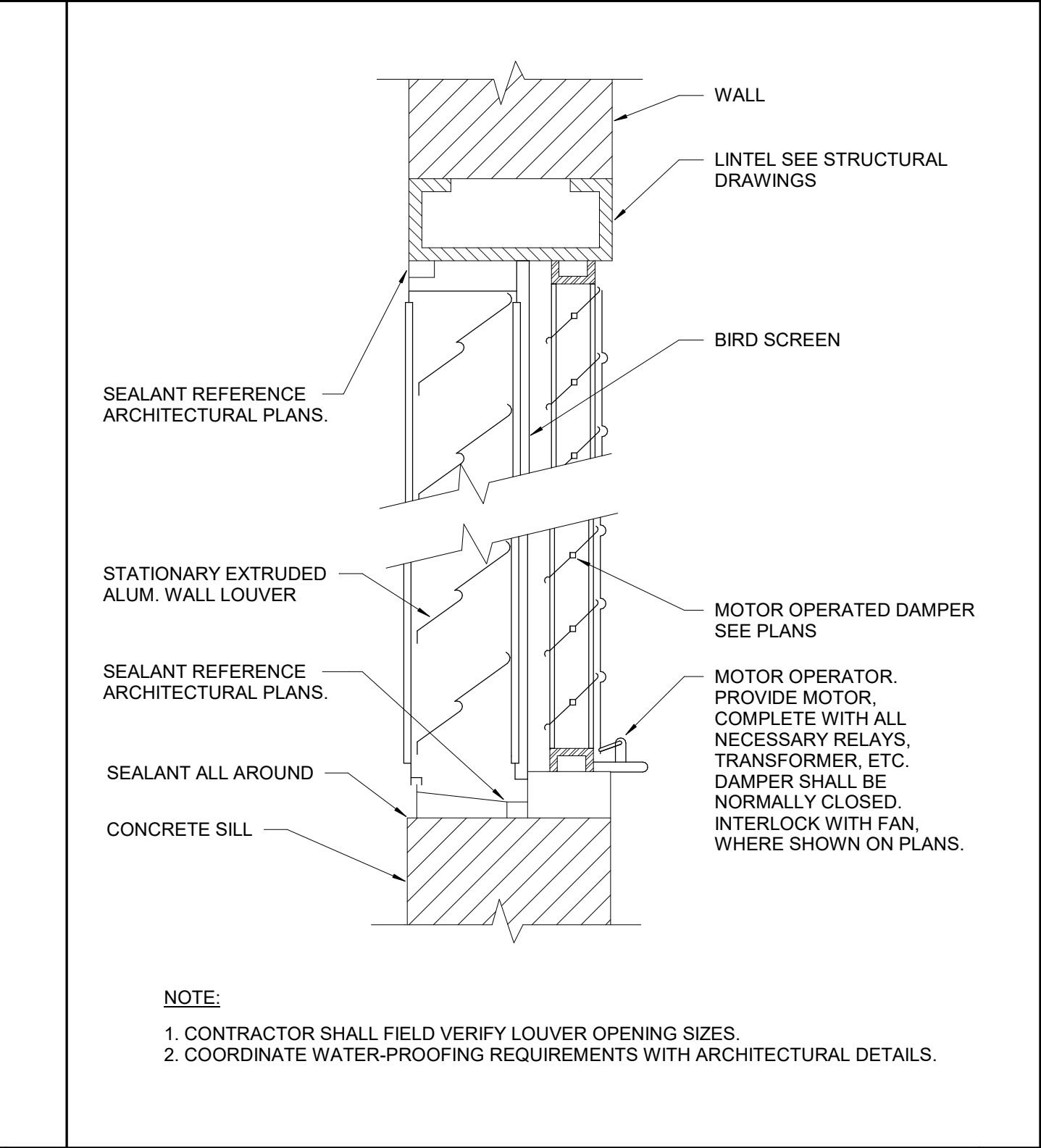
MEZZANINE
PLAN

S1.1

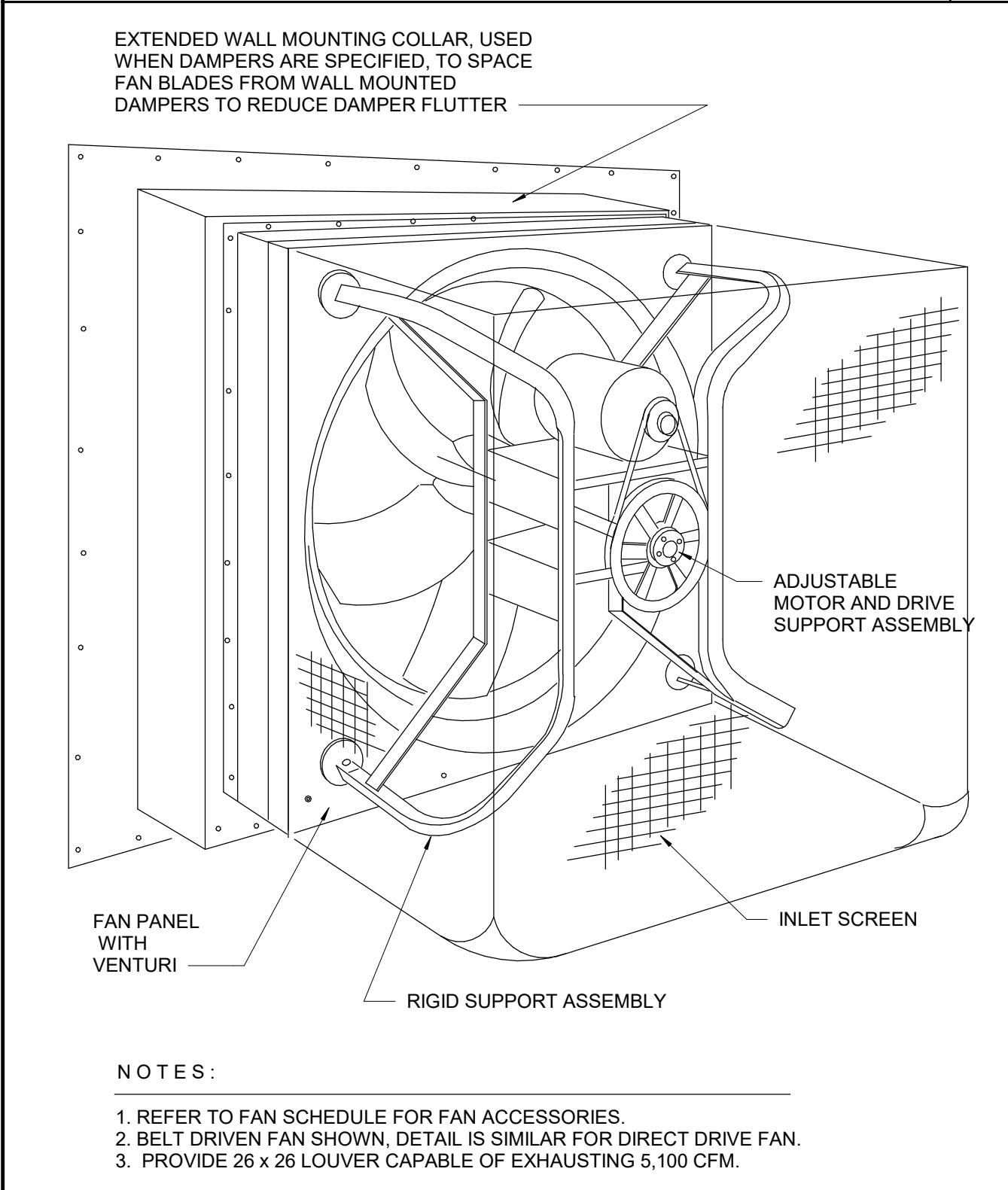
MECHANICAL SYSTEMS				PROJECT NO.		27999-3605-04			
PART 1 GENERAL				PIN NO.		131119			
1.1 REQUIREMENTS:	A. APPLICABLE PROVISION OF GENERAL CONDITIONS OF DIVISION 1, GENERAL REQUIREMENTS, GOVERN ALL WORK SPECIFIED IN THIS SECTION.	B. REFER TO ARCHITECTURAL DRAWINGS FOR APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS FOR GENERAL REQUIREMENTS THAT GOVERN ALL WORK SPECIFIED IN THIS SECTION.	C. REFER TO MECHANICAL DRAWINGS FOR GENERAL REQUIREMENTS APPLYING, BUT NOT LIMITED TO THE FOLLOWING: 1. ALTERNATES 2. INSPECTION OF SITE. 3. VERIFICATION OF UTILITIES AND SERVICES. 4. REQUIREMENTS OF REGULATORY AGENCIES. 5. DRAWINGS 6. SAFETY DEVICES. 7. SHOP DRAWINGS. 8. GUARANTEE.	1.1.1 SHOP DRAWINGS (SUBMITTALS): A. EQUIPMENT SUBMITTALS: 1. ELECTRONIC COPIES OF SHOP DRAWINGS AND/OR MANUFACTURER'S DESCRIPTIVE DATA IN A PDF FORMAT OF A NATURE TO COMPLETELY IDENTIFY THE EQUALITY OF THE MATERIAL OR EQUIPMENT INTENDED FOR INSTALLATION SHALL BE SUBMITTED FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION AND WITHIN THIRTY DAYS AFTER SIGNING CONTRACT. FAILURE TO SUBMIT DATA FOR APPROVAL WITHIN THIRTY DAYS TIME LIMIT WILL BE CONSTRUED AS MEANING EQUIPMENT CALLED FOR BY NAME WILL BE FURNISHED. DATA SHALL BE ORGANIZED IN SAME ORDER AS LISTED BELOW, SHALL BE SUBMITTED ALL IN ONE BROCHURE, INDEXED BY FLYSHEET ON FRONT PAGE, AND BE BOUND IN SETS, ALL SETS IDENTICAL. NO EXCEPTION WILL BE MADE TO THIS PROCEDURE AND TIME SCHEDULE. 2. EACH ITEM SUBMITTED FOR REVIEW SHALL BE MARKED AND HAVE SUBMITTAL DATA PRECEDED BY A TYPEWRITTEN DESCRIPTION (BY CONTRACTOR OR ITEM SUPPLIER) OF THE ITEM. DESCRIPTION TO INCLUDE MAKE AND MODEL NUMBERS AND SHALL DESCRIBE THE ITEM. LIST ALL OPTIONS AND ACCESSORIES WHICH ARE INCLUDED. LIST ANY OPTIONS OR ACCESSORIES SHOWN ON SHOP DRAWINGS WHICH ARE NOT INCLUDED. 3. SUBMIT THE FOLLOWING FOR APPROVAL, REFERRING TO THE VARIOUS SECTIONS OF THIS SPECIFICATION FOR SPECIFIC ITEMS (AS APPLICABLE): a. HEATING EQUIPMENT. b. VENTILATING OR EXHAUST EQUIPMENT. c. DUCT INSULATION. d. DUCT HANGERS. e. AIR DISTRIBUTION EQUIPMENT. f. PIPING. g. VALVES.	1.1.2 CONTRACTOR'S TEST AND BALANCE: A. TEST AND BALANCE SHALL BE PERFORMED BY FOLLOWING THE PROCEDURES RECOMMENDED BY THE AABC, OR NEBB. B. AIR FLOWS SHALL BE BALANCED TO PLUS OR MINUS 5 PERCENT OF SPECIFIED QUANTITIES. LIST ALL FANS, COILS, SUPPLY, RETURN, AND EXHAUST OUTLETS. PROVIDE INLET AND OUTLET TEMPERATURES FOR ALL COILS. PROVIDE LOCATION, SPECIFIED AIR QUANTITY, FACE AREA, FACE VELOCITY AND MEASURED AIR QUANTITY FOR ALL COILS AND SUPPLY, RETURN, AND EXHAUST OUTLETS. C. LIST OUTDOOR DRY BULB AND WET BULB TEMPERATURES, AND DRY BULB TEMPERATURE OF ALL CONDITIONED SPACES. D. VERIFICATION OF PERFORMANCE OF EQUIPMENT AND AUTOMATIC TEMPERATURE CONTROLS. E. PREPARE AND TURN OVER TO THE OWNER OR ARCHITECT, ELECTRONIC COPIES OF ALL TEST AND BALANCE DATA.	2.5 DIFFUSERS, GRILLES AND REGISTERS: A. CEILING SUPPLY AND RETURN DIFFUSERS SHALL BE SIZED FOR A MAXIMUM STATIC PRESSURE DROP OF 0.05 INCHES W.G., AND MAXIMUM NOISE LEVEL OF NC=30. SELECTION FOR THROW TO NEAREST WALL SHALL PROVIDE A DOWNWARD AIR MOVEMENT AT WALL OF 50 FPM. B. ALL CEILING DIFFUSERS SHALL HAVE VOLUME CONTROL DAMPER OPERABLE FROM THE FACE OF THE DIFFUSER. DIFFUSERS AND GRILLES SHALL BE AS INDICATED ON THE SCHEDULE. C. UNLESS OTHERWISE NOTED ON DRAWINGS AIR DISTRIBUTION CONSTRUCTION AND FINISHES SHALL BE AS FOLLOWS: 1. CEILING DIFFUSERS - STEEL CONSTRUCTION BAKED WHITE ENAMEL FINISH. 2. GRILLES AND REGISTERS CEILING- STEEL OR ALUMINUM CONSTRUCTION BAKED WHITE ENAMEL FINISH. D. CEILING DIFFUSERS, SUPPLY AND RETURN, SHALL HAVE REMOVABLE FACE PLATE AND FRAMES SELECTED FOR THE CEILING CONSTRUCTION IN WHICH INSTALLED (T-BAR, SPLINE, ETC.).			
							1.2 SCOPE OF WORK INCLUDED:	1.2.2 CLEAN-UP:	2.6 DAMPERS:
							1.3 RELATED WORK UNDER OTHER DIVISIONS OF THE CONTRACT:	1.2.3 INSTRUCTION OF OWNER:	2.8 HANGERS AND SUPPORTS:
1.4 REFERENCE STANDARDS:	1.2.4 OPERATING AND MAINTENANCE INSTRUCTIONS:								
A. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING PERTINENT STANDARDS AND LEGAL CODES AND ORDINANCES: 1. INTERNATIONAL BUILDING CODE AND PUBLICATIONS REFERRED TO THEREIN 2. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) 3. STATE, COUNTY, AND LOCAL MECHANICAL, GAS, AND PLUMBING CODES 4. NATIONAL ELECTRICAL CODE (NEC), NFPA 70, 2017 EDITION 5. AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA) 6. AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC. (ASHRAE) 7. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) 8. AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM) 9. ASSOCIATED AIR BALANCE COUNCIL (AABC) 10. NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) 11. SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) 12. CAST IRON PIPE INSTITUTE (CPI) 13. NATIONAL SANITATION FOUNDATION TESTING LABORATORY (NSF) 14. PLUMBING DRAINAGE INSTITUTE (PDI) 15. FACTORY MUTUAL GLOBAL (FM) 16. STANDARDS AND PERIODICALS LISTINGS, UNDERWRITERS LABORATORIES 17. FOR WORK NOT SPECIFICALLY LISTED ABOVE, USE THE STANDARDS AND CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)	A. FURNISH AND TURN OVER TO AIE THREE (3) HARD COPIES AND ONE ELECTRONIC COPY OF OPERATION AND MAINTENANCE INSTRUCTIONS, TO INCLUDE: 1. COMPLETE SET OF APPROVED SUBMITTAL DATA ON INSTALLED EQUIPMENT, TO INCLUDE FINAL TEST AND BALANCE REPORT, AS BUILT TEMPERATURE CONTROL DIAGRAM AND WIRING DIAGRAMS. 2. OPERATING INSTRUCTIONS ON ALL EQUIPMENT HAVING MOVING PARTS, TO INCLUDE RECOMMENDED MAINTENANCE AND INSPECTION SCHEDULE. 3. PARTS LISTS ON ALL EQUIPMENT, ALONG WITH NAME, ADDRESS, AND TELEPHONE NUMBER OF SOURCE OF PURCHASE OR LOCAL REPRESENTATIVE. 4. COPIES OF ALL WARRANTIES OR GUARANTEES. 5. COPIES OF INSTALLATION INSTRUCTIONS WHEN FURNISHED WITH EQUIPMENT. B. INSTRUCTIONS SHALL BE IN HARD COVER BINDER WITH INDEX. INSERT IN ORDER AS LISTED HEREIN. PROVIDE ELECTRONIC COPY.	A. PIPING SHALL BE HUNG FROM STRUCTURE BY ADJUSTABLE HANGERS, PER ANSIMSS STANDARD SP-58, SP-69 AND SP-89, SPACED AS NOTED WITH ADDITIONAL SUPPORT FOR VALVES AND SPECIALTIES, OR AT JOINTS SO ADJUSTMENTS FOR PITCH CAN BE MADE AFTER INSTALLATION. REFERENCES ARE TO GRINNELL FIGURE NUMBERS. COMPARABLE PRODUCTS OF F & S, ELCCN, MICHIGAN, OR B-LINE ARE ACCEPTABLE. 1. FERROUS PIPE (HORIZONTAL). a. 2 INCH AND SMALLER - GRINNELL FIG. 104 ADJUSTABLE SPLIT RINGS. b. OVER 2 INCH - GRINNELL FIG. 260 STEEL CLEVIS. c. WHERE PIPES ARE GROUPED, USE OF "UNISTRUT" RACKS AND BRACKETS WILL BE PERMISSIBLE. 2. COPPER TUBING (HORIZONTAL) a. 1/2 INCH TO 6 INCH SIZE - GRINNELL FIG. 260 WITH FIG 81 INSULATION PROTECTORS, LENGTH AND GAUGE AS RECOMMENDED BY MANUFACTURER. 3. VERTICAL PIPING (ALONG WALLS) a. STEEL: 1 INCH AND SMALLER - ANCHOR MIDWAY BETWEEN FLOOR AND CEILING WITH GRINNELL FIG. 103 STEEL OFFSET PIPE CLAMPS. b. COPPER TUBING: 1 INCH AND SMALLER - ANCHOR MIDWAY BETWEEN FLOOR AND CEILING WITH GRINNELL FIG. CT-138R SPLIT RING EXTENSION HANGER.							
A. BIDDERS SHALL VISIT THE SITE OF THE WORK BEFORE SUBMITTING BIDS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF ALL WORK TO BE DONE INCLUDING REQUIREMENTS OF LOCAL AUTHORITIES TO MEET WITH THEIR PROCEDURES OR CODES.	A. PROTECT WORK AT ALL TIMES FROM DANGER BY FREEZING, BREAKAGE, DIRT, FOREIGN MATERIALS, ETC., AND REPLACE ALL WORK SO DAMAGED, USE EVERY PRECAUTION TO PROTECT THE WORK OF OTHERS, AND BE RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY WORK OF, OR THROUGH THE NEGLIGENCE OF WORKMEN UNDER THIS SECTION OF THE SPECIFICATIONS.	A. DUCTWORK SUBJECT TO PRESSURES UP TO 2.0" WATER COLUMN SHALL BE DESIGNATED LOW PRESSURE DUCTWORK AND SHALL BE CONSTRUCTED OF GALVANIZED STEEL ASTM A525-75 GRADE G90, HOT DIP GALVANIZED TO 0.90 OZ. OF ZINC PER SQUARE FOOT OF METAL. B. ALL CONSTRUCTION AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH S.M.A.C.N.A. RECOMMENDATIONS. C. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS MEASURED INSIDE BARE DUCT. D. METAL GAUGE, LONGITUDINAL AND TRANSVERSE JOINTS, SHALL BE FOR 2.0" PLUS OR MINUS STATIC PRESSURE, UNLESS OTHERWISE INDICATED ON DRAWINGS. E. RADIUS ELBOWS SHALL HAVE MINIMUM CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. LARGER ELBOWS SHALL BE VANED PER S.M.A.C.N.A. DETAILS. SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, PER S.M.A.C.N.A. DETAILS, BARBER COLEMAN "AIRTURNS", OR EQUIVALENT TITUS. F. TRANSITIONS SHALL BE AS GRADUAL AS POSSIBLE, BUT NOT TO EXCEED 30" PER SIDE. G. BRANCH DUCT TAKEOFFS FOR RECTANGULAR DUCTS SHALL BE ONE OF THE FOLLOWING: 1. 90° TAKEOFF (STRAIGHT TAP) WITH ADJUSTABLE DEFLECTOR IN TRUNK DUCT, OR FIXED DEFLECTOR WITH MANUAL DAMPER. 2. 45° ELBOW TAP-IN. 3. 90° TAKEOFF WITH 45° ENTRY. H. BRANCH DUCT TAKEOFFS FOR ROUND DUCT SHALL BE MADE WITH ONE OF THE FOLLOWING: 1. 45° TAKEOFF. 2. 90° CONICAL TAP-IN. 3. RECTANGULAR TO ROUND TRANSITION BOOT, 45° ENTRY. I. ALL BRANCH TAKEOFFS SHALL HAVE MANUAL DAMPER WITH QUADRANT. J. FINAL CONNECTIONS FROM DUCTS TO CEILING DIFFUSERS MAY BE MADE WITH FLEXIBLE INSULATED DUCT NOT TO EXCEED 3'-6" IN LENGTH.							
A. IMMEDIATELY UPON COMMENCING CONSTRUCTION, AND PRIOR TO CONSTRUCTION OF ANY PART OF THE FACILITY INVOLVED IN ANY WAY WITH UTILITIES, INVESTIGATE THOROUGHLY THE SIZE, CAPACITY, ARRANGEMENT AND LOCATION OF UTILITIES. REPORT ANY DISCREPANCIES OR APPARENT PROBLEM INVOLVING THE PROJECT THAT PERTAIN TO UTILITIES. THIS APPLIES TO PRIVATE AS WELL AS PUBLIC UTILITIES.	A. FURNISH AND ERECT ALL NECESSARY STEEL MEMBERS, FRAMES, CONNECTIONS, ETC., TO SUPPORT EQUIPMENT AND PIPING INSTALLED UNDER THIS SECTION, REGARDLESS OF WHETHER THE DRAWINGS INDICATE SUPPORT DETAILS OR NOT. COORDINATE WITH GENERAL CONTRACTOR TO DETERMINE WHICH SUPPORTS ARE BEING FURNISHED BY OTHER SECTIONS. B. PROVIDE CONCRETE PADS, CURBS, ETC. FOR SUPPORT OF EQUIPMENT AND PIPING INSTALLED UNDER THIS SECTION, WHETHER SHOWN ON DRAWINGS OR NOT, EXCEPT WHERE SUPPORTS ARE REQUIRED TO BE FURNISHED AND INSTALLED BY OTHER SECTIONS OF THESE SPECIFICATIONS. COORDINATE RESPONSIBILITY WITH GENERAL CONTRACTOR. C. PROVIDE VIBRATION ABSORBING, MOUNTING DEVICES (INCLUDING SEISMIC RESTRAINT) DESIGNED TO PREVENT TRANSMISSION OF VIBRATION AND NOISE TO THE BUILDING STRUCTURE.	2.9 INSULATION: A. PIPE AND EQUIPMENT INSULATION 1. Materials for Pipe and Equipment: Provide factory premolded insulation for pipe, pipe fittings, and valves. Fitting insulation shall be the same thickness and material as adjoining pipe insulation. 2. Flexible Tubular Elastomeric: A. Provide fire-retardant closed-cell slip-on flexible type; minimum "R" value of 2.57 B. Acceptable manufacturers: Aeroflex "Aerocel", Armacel "AP/Armalflex", or K-Flex "Insul-Tube". C. Use on the following services: b. Refrigerant lines: 1-1/2" thick (2 layers of 3/4" thick). B. INSTALLATION OF PIPE AND EQUIPMENT COVERING A. Finish for all piping exposed-to-the-weather shall be Childers, or equal, .016 inch thick aluminum jacket on pipe and Ell jacs, or equal, pre-formed aluminum covering on fittings. B. Apply flexible tubular elastomeric insulation to pipe and fittings with all joints tightly fitted and sealed with adhesive. C. SMOKE AND FLAME RATING: 1. ALL INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATING AS TESTED BY PROCEDURES ASTM E-84, NFPA 255, AND WL 723 NOT EXCEEDING FLAME SPREAD 25 AND SMOKE DEVELOPED 50.							
A. BIDDERS SHALL VISIT THE SITE OF THE WORK BEFORE SUBMITTING BIDS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF ALL WORK TO BE DONE INCLUDING REQUIREMENTS OF LOCAL AUTHORITIES TO MEET WITH THEIR PROCEDURES OR CODES.	A. THE FOLLOWING PROTECTIVE PAINTING AND IDENTIFICATION OF EQUIPMENT AND PIPING SHALL BE PROVIDED UNDER THIS DIVISION OF THE WORK. OTHER FINISH PAINTING SHALL BE PROVIDED UNDER THE "PAINTING" DIVISION OF THE SPECIFICATIONS. 1. FABRICATED EQUIPMENT AND ASSEMBLED UNITS SHALL BE FURNISHED WITH FACTORY APPLIED, PROTECTIVE, PRIME COAT PAINT OF FINISHED BAKED ENAMEL AS SPECIFIED HEREINBEFORE. EQUIPMENT SURFACES DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REFINISHED BY THE CONTRACTOR.	2.10 SPLIT SYSTEM: A. SPLIT SYSTEMS SHALL BE HEAT PUMP TYPE WITH DUCTLESS WALL MOUNTED INDOOR UNIT BY TRANSMITTALBUSHI OR DAIKIN OR LG. EFFICIENCIES SHALL COMPLY WITH CURRENT ENERGY CODE STANDARDS. REFRIGERANT SHALL COMPLY WITH CURRENT STANDARDS. PROVIDE COMPLETE SYSTEM WITH PIPING (SIZED BY MANUFACTURER) AND CONTROLS BY MANUFACTURER							
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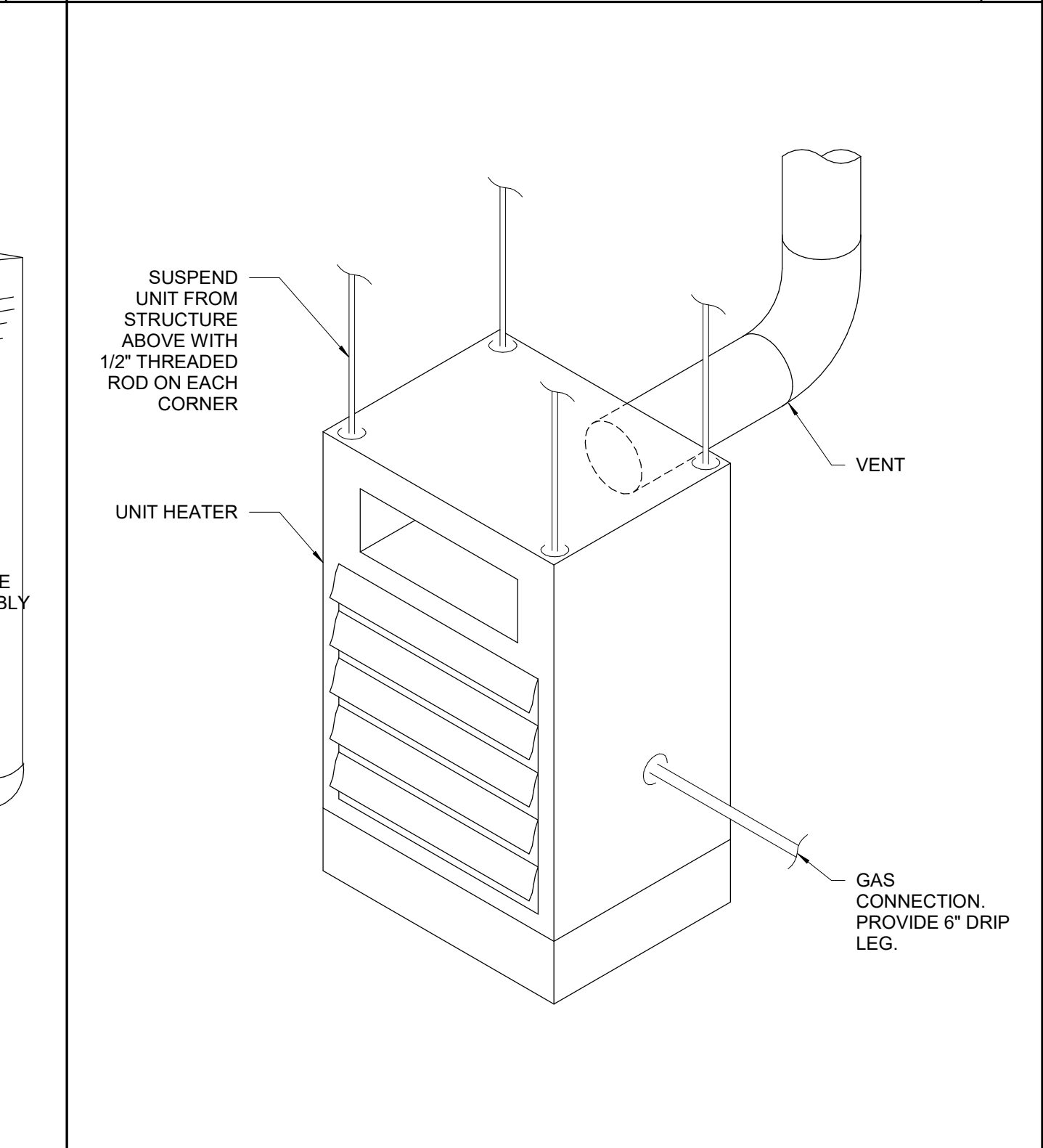
SEALED COMBUSTION FLUE THROUGH METAL BUILDING ROOF



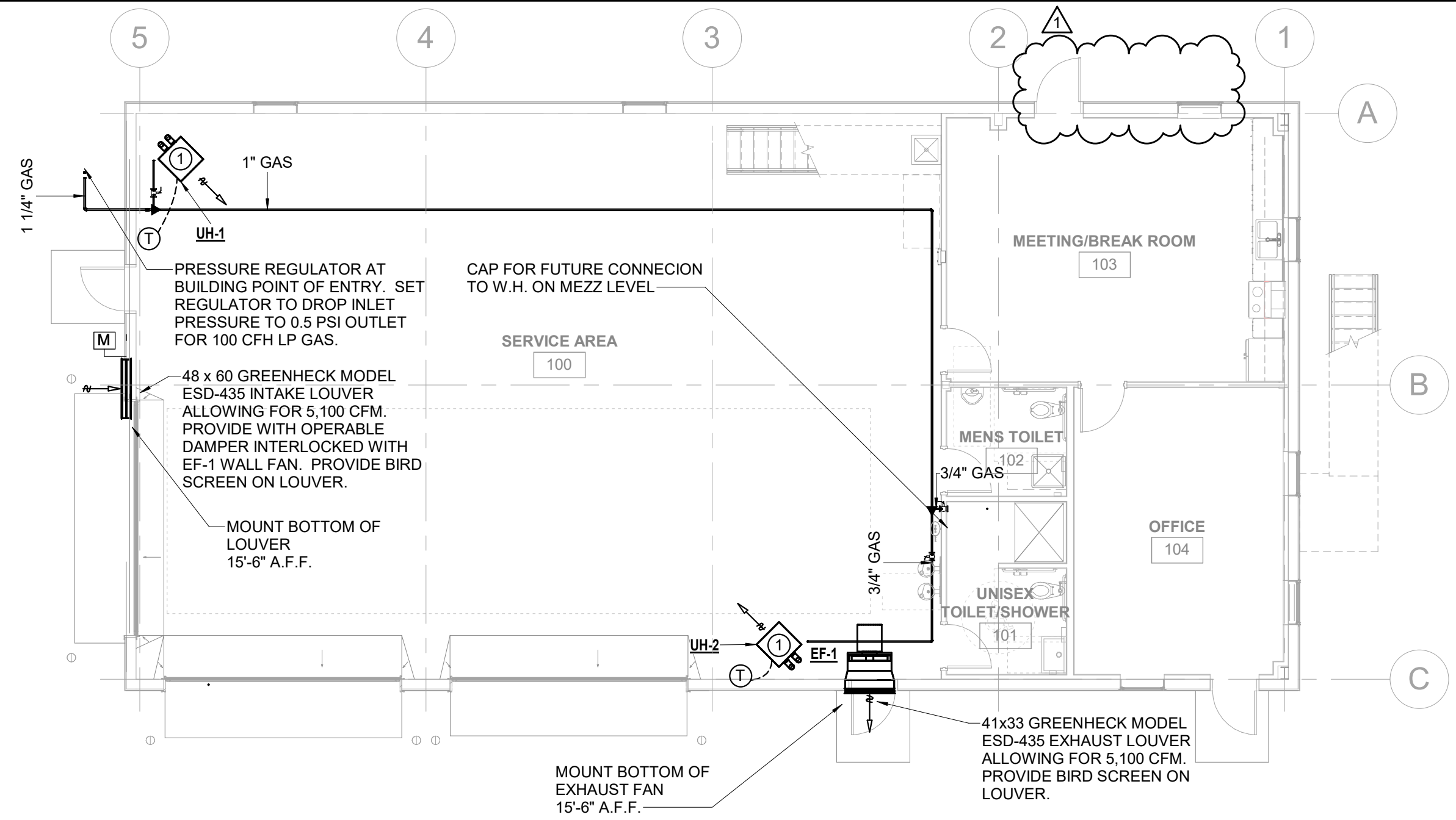
01 WALL LOUVER AND DAMPER



WALL MOUNTED PROPELLER FAN



03 GAS-FIRED UNIT HEATER

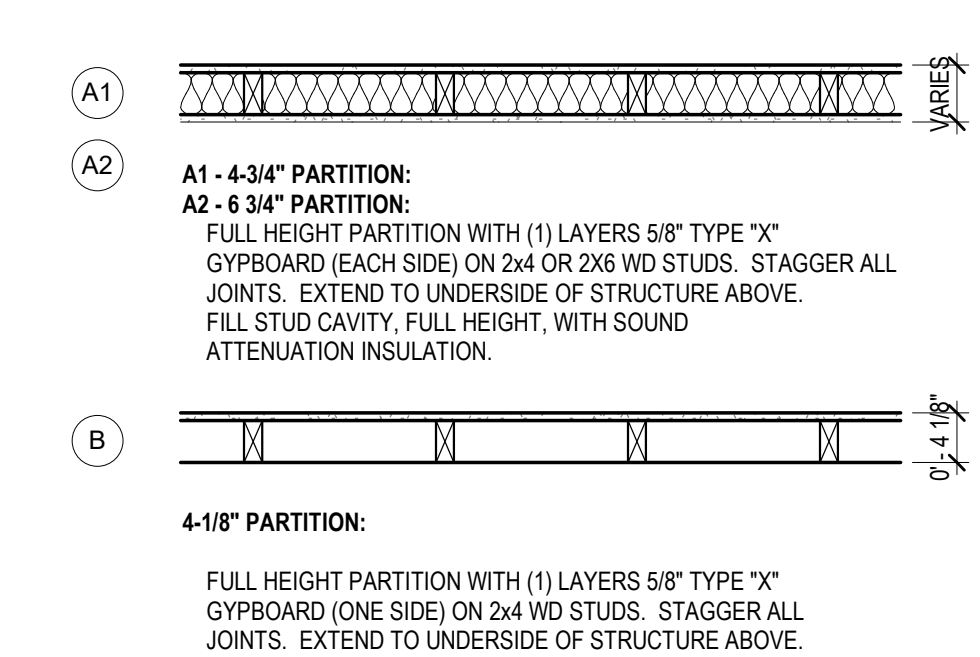


1 MECHANICAL PLAN - CORE & SHELL

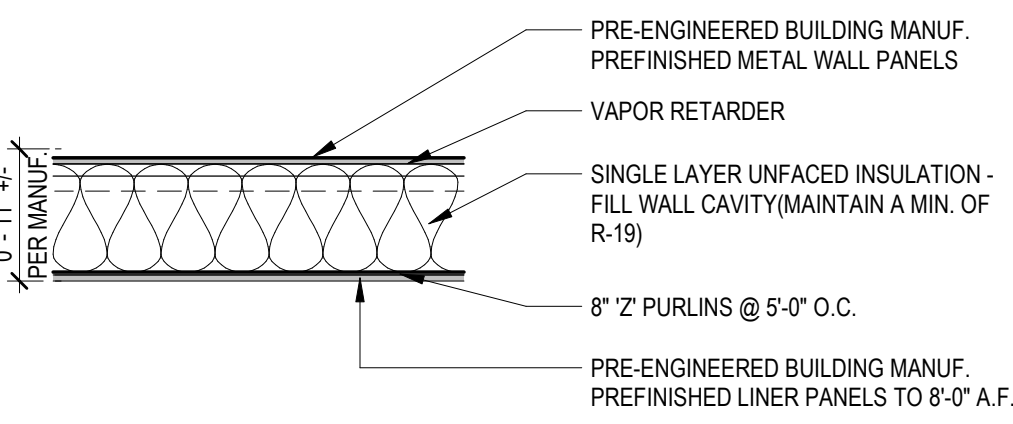
SHEET KEYED NOTES

1 PROVIDE WALL MOUNTED TSTAT AND CONCENTRIC VENT TERMINATION KIT. SIZE PER MANUFACTURERS RECOMMENDATION.

INTERIOR WALL TYPES



EXTERIOR WALL TYPES



FAN SCHEDULE														
GENERAL NOTES: 1. MOTOR H.P. SHALL COMPLY WITH ASHRAE 90.1. 2. BHP SHALL BE NO GREATER THAN 90% OF THE MOTOR H.P.														
DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	TYPE	CFM	ESP (IN. WG)	MOTOR					MAX. SONES	ROOF / WALL OPENING	OPERATING WEIGHT (LBS)
							BHP	MIN. HP	RPM	VOLTAGE	PHASE			
EF-1	CORE	GREENHECK	AER-E30C-310-VG	PROP	5,100	0.5	---	2	1,725	240	1	27	39.75x39.75	319

PROJECT NO.	27999-3605-04
PIN NO.	131119
DATE	03/05/25
BY	
REVISIONS	
DESCRIPTION	REVISION 1

**TDOT GIBSON COUNTY
MAINTENANCE BUILDING**

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

DATE
SEPTEMBER 29, 2023

PHASE
CONSTRUCTION

PROJECT # 2023-11-09-02

Wold HFR DESIGN

214 Centervue Drive Suite 300
Brentwood, TN 37027
wolda.com phone: 615.370.8500
fax: 615.370.8530

SSR Smith Seckman Reid, Inc.

2650 Thousand Oaks Boulevard,
Suite 4200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 22640620

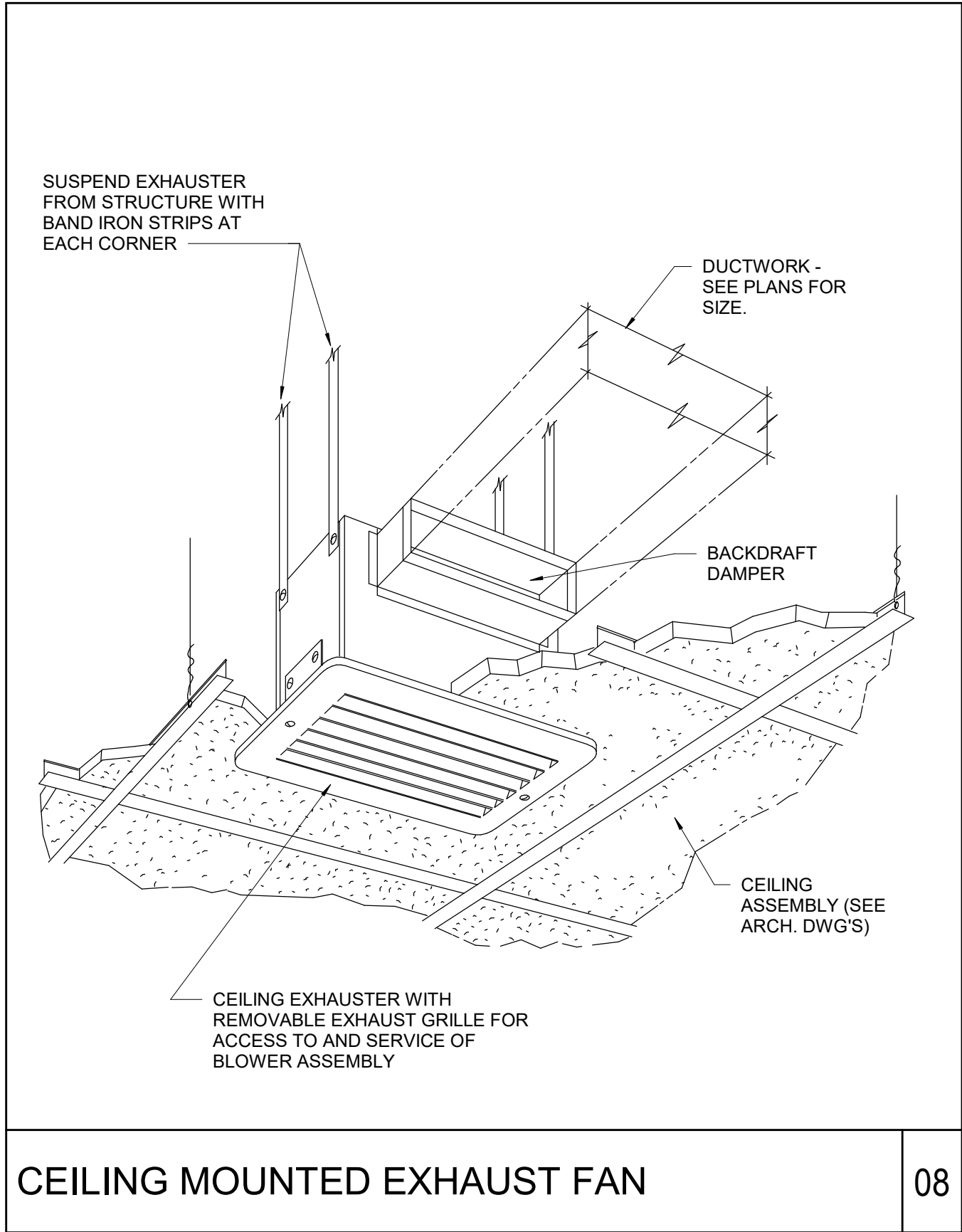
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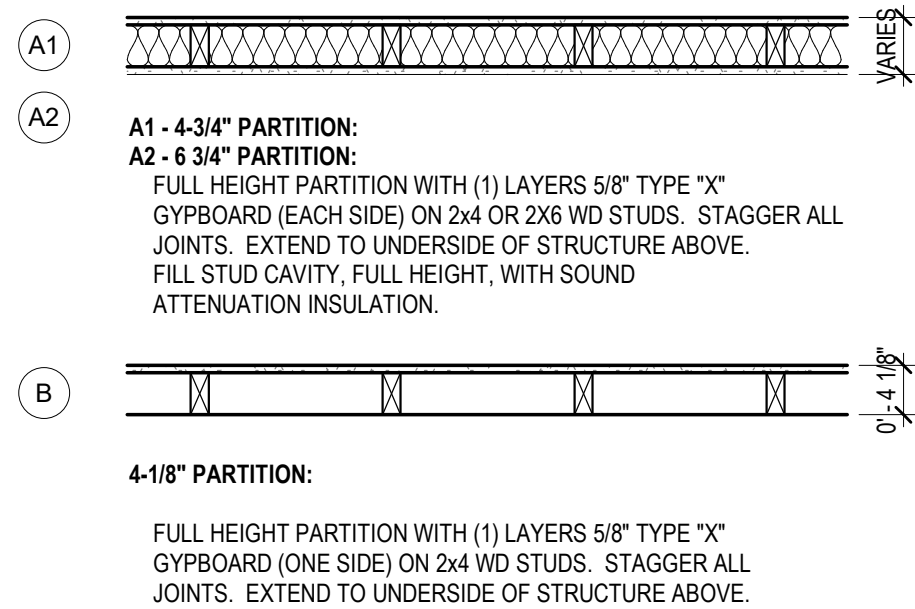
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

**MECHANICAL
CORE & SHELL**

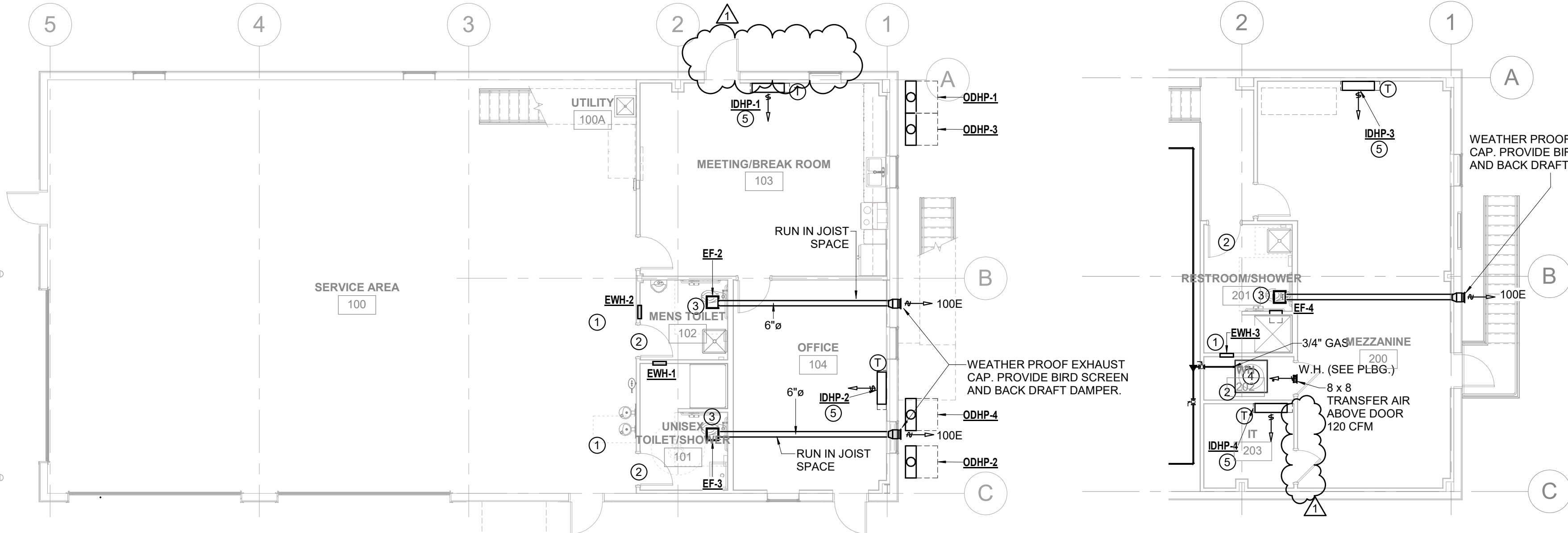
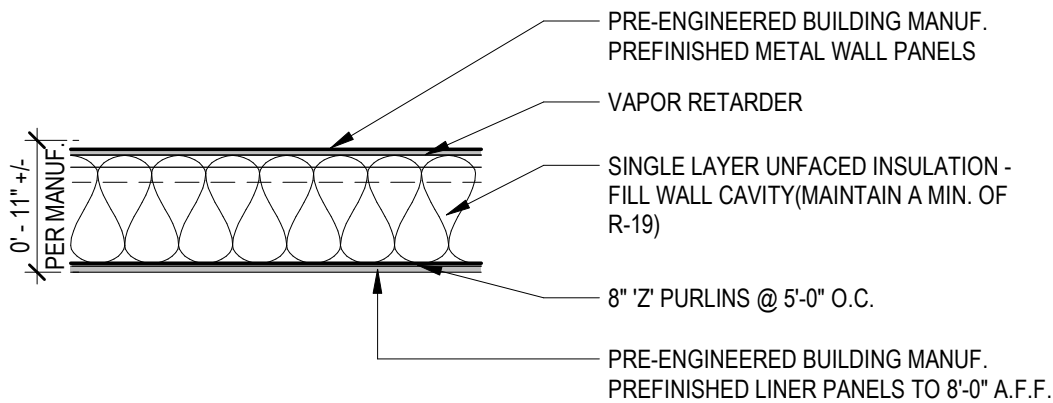
M1.0



INTERIOR WALL TYPES



EXTERIOR WALL TYPES



SHEET KEYED NOTES

1. PROVIDE WALL HEATER EQUAL TO QMARK AWH3150F OR APPROVED EQUAL. UNIT SHALL BE 120/160 AND PROVIDE 1.5 KW/HEAT. PROVIDE RECESSED WALL MOUNT KIT AND SURFACE MOUNTED CONTROLS.
2. PROVIDE 3/4" UNDERCUT ON DOORS.
3. INTERLOCK WITH LIGHT SWITCH
4. VENT W.H. UP THRU ROOF AND SIZE AS PER MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO PLUMBING DRAWINGS FOR CONDENSATE TO DRY WELL.

UNIT HEATER SCHEDULE

ACCESSORIES:

1. INTEGRAL ELECTRICAL DISCONNECT SWITCH
2. SURFACE MOUNT KIT SUITABLE FOR INSTALLATION ON BLOCK WALL.
3. HANGING BRACKET
4. 1" THROWAWAY FILTERS
5. TAMPERPROOF ACCESS DOOR AND PAINTED SHEETMETAL ENCLOSURE FOR CONTROL AND VALVE PIPING

6. UNIT OR WALL MOUNTED THERMOSTAT WITH CONTROL TRANSFORMER. REFER TO FLOOR PLANS FOR THE THERMOSTAT TYPE AND LOCATION. PROVIDE LOCKING TAMPERPROOF THERMOSTAT COVER FOR ALL ADJUSTABLE THERMOSTATS LOCATED IN PUBLIC SPACES
7. PERMANENT SPLIT-CAPACITOR MOTOR
8. TOTALLY ENCLOSED MOTOR WITH THERMAL OVERLOAD
9. FRONT IN, FRONT OUT AIRFLOW
10. FRONT IN, FRONT OUT AIRFLOW

REMARKS:

A. CONVERT TO HALF WATTAGE IN FIELD.

UNIT TYPES:

VERTICAL
HORIZONTAL

DESIGNATION	TYPE	MANUFACTURER	MODEL NUMBER	MIN. CAPACITY (BTUH)	CFM	KW	APPROX. SIZE	ELECTRICAL			ACCESSORIES	REMARKS
								VOLT/PH	FLA	MOCP		
EW-H-1, 2, 3	HORIZONTAL	MARLEY	AWH4404F	5,120	100	1.5	16"x20"x4"	208/1	7.2	20	1, 2, 6, 7, 9	A

FAN SCHEDULE

GENERAL NOTES:

1. MOTOR H.P. SHALL COMPLY WITH ASHRAE 90.1.
2. BHP SHALL BE NO GREATER THAN 90% OF THE MOTOR H.P.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	TYPE	CFM	ESP (IN. WG)	MOTOR					MAX. SONES	ROOF / WALL OPENING	OPERATING WEIGHT (LBS)
							BHP	MIN. HP	RPM	VOLTAGE	PHASE			
EF-2	RESTROOM	GREENHECK	SP-110-VG	CEILING	100	0.125	---	8W	940	115/60	1	1.4	---	12
EF-3	RESTROOM	GREENHECK	SP-110-VG	CEILING	100	0.125	---	8W	940	115/60	1	1.4	---	12
EF-4	RESTROOM	GREENHECK	SP-110-VG	CEILING	100	0.125	---	8W	940	115/60	1	1.4	---	12

SPLIT SYSTEM HEAT PUMP SCHEDULE

GENERAL NOTES:

1. SEE SPECIFICATIONS.
2. PIPE CONNECTIONS SIZES PER PLANS.
3. CONTROL SEQUENCE PER DRAWINGS.
4. 1" PLEATED FILTER.
5. SEE ELECTRICAL DRAWINGS FOR STARTER, DISCONNECT AND LOCATION.
6. REFRIGERANT LINE SIZES PER MANUFACTURER'S REQUIREMENTS.
7. COOLING CAPACITY AND SEER BASED ON 95°F.
8. HEATING CAPACITY AND HSPF BASED ON 17°F.
9. UNITS SHALL BE SELECTED TO OPERATE AT AN ALTITUDE OF XXXX FT.

UNIT TYPES:

VERTICAL
HORIZONTAL

MOTOR TYPES:

PSC - PERMANENT SPLIT-CAPACITOR.
ECM - ELECTRONICALLY COMMUTATED MOTOR.

DESIGNATION	MANUFACTURER	MODEL NO.		UNIT HSPF	UNIT EER	INDOOR UNIT																CONDENSING UNIT							
		INDOOR UNIT	CONDENSING UNIT			CFM	OA CFM	ESP (IN. WG)	TSP (IN. WG)	FAN MOTOR			COOLING			HEATING							DESIGN AMBIENT	FAN FLA	COMPRESSOR RLA	VOLT/PH	MOCP	MCA	REFRIG.
										W	VOLT/PH	EAT DB/WB (° F)	LAT DB/WB (° F)	TOTAL CAPACITY (BTUH)	MAX. CAPACITY 17°F (BTUH)	EAT DB (° F)	LAT DB (° F)	AUX KW	KW / STEP	MCA	MOCP	VOLT/PH							
IDHP-1/ODHP-1	DAIKIN	MSZ-HX12NA	MUZ-HX12NA	10	12.5	400	0	0	0	30	208/1	-	-	12000	7800	-	-	-	-	12	15	208/230/1	95	0.71	6.6	208/1	15	12	R454B
IDHP-2/ODHP-2	DAIKIN	MSZ-HX09NA	MUZ-HX09NA	10	12.5	340	0	0	0	30	208/1	-	-	9000	6800	-	-	-	-	9	15	208/230/1	95	0.71	6.2	208/1	17	10	R454B
IDHP-3/ODHP-3	DAIKIN	MSZ-HX12NA	MUZ-HX12NA	10	12.5	400	0	0	0	30	208/1	-	-	12000	7800	-	-	-	-	12	15	208/230/1	95	0.71	6.6	208/1	15	12	R454B
IDHP-4/ODHP-4	DAIKIN	MSZ-HX09NA	MUZ-HX09NA	10	12.5	340	0	0	0	30	208/1	-	-	9000	6800	-	-	-	-	9	15	208/230/1	95	0.71	6.2	208/1	17	10	R454B

PROJECT NO.	27999-3605-04
PIN NO.	131119
DATE	03/05/25
BY	
DESCRIPTION	REVISION 1

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

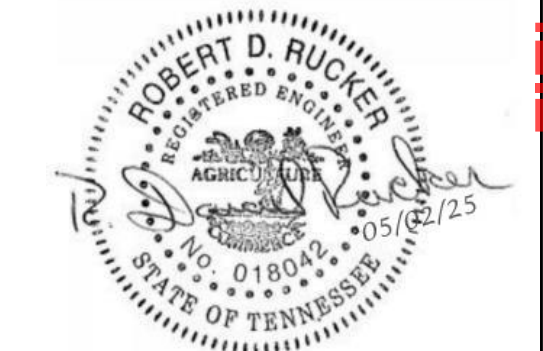
CONSTRUCTION SEPTEMBER 29, 2023
PROJECT # 2023-11-09-02

Wold HFR DESIGN

214 Centerview Drive Suite 300
Brentwood, TN 37027
woldae.com phone: 615.370.8500
fax: 615.370.8530



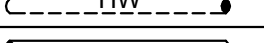
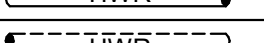
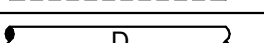
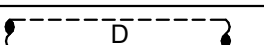
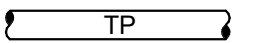
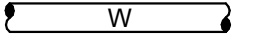
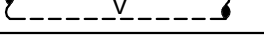
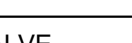
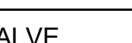



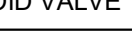
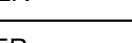
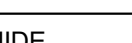
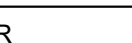



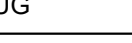
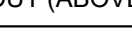
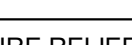
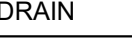
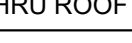
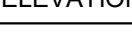
SSR Smith Seckman Reid, Inc.

2650 Thousand Oaks Boulevard,
Suite 4200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 22640620



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

MECHANICAL
FIRST FLR./
MEZZ.BUILD-OUT
M1.1

ALL PLUMBING LEGEND		
NOT ALL SYMBOLS MAY BE USED		
SYMBOL	ABB.	DESCRIPTION
—CW— 	CW	DOMESTIC COLD WATER
---CW--- 	CW	DOM. COLD WATER (BELOW)
—HW— 	HW	DOMESTIC HOT WATER
---HW--- 	HW	DOMESTIC HOT WATER (BELOW)
—HWR— 	HWR	DOMESTIC HOT WATER RECIRC.
---HWR--- 	HWR	DOMESTIC HOT WATER RECIRC. (BELOW)
—D— 	D	DRAIN
---D--- 	D	DRAIN (BELOW)
—TP— 	TP	TRAP PRIMER
—W— 	W	WASTE
---W--- 	W	WASTE (BELOW)
---V--- 	V	SANITARY VENT
		PIPE TURN DOWN
		PIPE TURN UP
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		BALANCING VALVE
		BUTTERFLY VALVE
	PRV	PRESSURE REGULATING VALVE
		SOLENOID VALVE
		STRAINER
		REDUCER
		PIPE GUIDE
		ANCHOR
		PRESSURE GAUGE
		PRESSURE SWITCH WITH DEMAND CHECK FITTING
		THERMOMETER
		CAP/PLUG
	CO	CLEANOUT (ABOVE CEILING)
		UNION
	PR	PRESSURE RELIEF VALVE
		SHOCK ARRESTOR
		HOSE BIBB / WALL HYDRANT
	FCO	FLOOR CLEAN OUT
	WCO	WALL CLEAN OUT
	FD	FLOOR DRAIN
	VTR	VENT THRU ROOF
	I.E.	INVERT ELEVATION
	AFF	ABOVE FINISHED FLOOR







SITE UTILITY NOTES - NEW CONSTRUCTION

- A. CONTRACTOR SHALL FIELD VERIFY UTILITY CONNECTIONS TO EXISTING CITY UTILITIES FOR EXACT LOCATIONS, PIPE SIZES, MATERIAL AND DEPTHS. CONFIRM EXACT CONNECTIONS WITH LOCAL AUTHORITIES AND PAY PRESCRIBED FEES. MATERIALS AND INSTALLATION SHALL MEET STATE AND LOCAL CODES AND REQUIREMENTS.
- B. CONTRACTOR SHALL COORDINATE ALL TOP CASTING ELEVATIONS ON NEW SANITARY SEWER MANHOLES WITH FINISHED GRADES.

SHOCK ARRESTOR SCHEDULE

GENERAL NOTES:

1. ALL ARRESTORS SHALL BE SIZED AND LOCATED PER PDI STANDARDS.

P.D.I. SYMBOL	FIXTURE UNITS	SIZE	MANUFACTURER	MODEL NUMBER
	1-11	1/2" NPT	PPP	SC-500
	12-32	3/4" NPT	PPP	SC-750
	33-60	1" NPT	PPP	SC-1000
	61-113	1 1/4" NPT	PPP	SC-1250
	114-154	1 1/2" NPT	PPP	SC-1500
	155-330	2" NPT	PPP	SC-2000

PLUMBING GENERAL NOTES

- A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS AND ALL BUILDING SERVICES. EXISTING SITE UTILITIES SHALL BE FIELD LOCATED FOR EXACT LOCATION AND ELEVATION BEFORE BEGINNING CONSTRUCTION OR DEMOLITION.
- B. DRAWINGS SHOW KNOWN EXISTING SERVICES, PIPING, FIXTURES, EQUIPMENT, AND CONNECTIONS IN REASONABLE PROXIMITY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND SIZES. ANY DISCREPANCIES AND / OR DEVIATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ARCHITECTS ATTENTION.
- C. COORDINATE WATER, WASTE, VENT, RAIN WATER AND OTHER PIPING WITH ALL TRADES TO AVOID SPACING AND ROUTING PROBLEMS.
- D. FIXTURES, EQUIPMENT, CONNECTIONS AND PIPING SHALL BE FURNISHED AND INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.
- E. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
- F. FURNISH AND INSTALL SHOCK ARRESTORS IN COLD WATER LINES AT CONNECTIONS TO FLUSH VALVES AND QUICK CLOSING VALVES AND AT EACH HOT AND COLD WATER CONNECTION TO FIXTURES.
- G. PLUMBING VENTS AND STACKS THROUGH ROOF SHALL BE INSTALLED A MINIMUM OF 25 FEET CLEAR OF HVAC OUTSIDE AIR INTAKES AND ANY OPERABLE WINDOW OR BUILDING OPENING.
- H. VENT AND WASTE STACKS LESS THAN THREE INCHES IN DIAMETER SHALL NOT ROUTE THROUGH THE ROOF. PROVIDE INCREASERS ON PIPING BELOW ROOF.
- I. PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.
- J. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
- K. PROVIDE INSULATION KIT FOR SUPPLIES, TRAP AND DRAIN PIPING FOR ALL HANDICAP ACCESSIBLE LAVATORIES AND SINKS. INSULATION OF PIPING IS NOT REQUIRED WHERE PROTECTIVE SKIRT IS PROVIDED BELOW FIXTURE.
- L. PROVIDE HOUSEKEEPING PADS UNDER ALL EQUIPMENT. COORDINATE PAD SIZE AND FLOOR DRAIN LOCATIONS WITH FINAL EQUIPMENT PAD LOCATIONS. LOCATE DRAINS NEAR EQUIPMENT DRAINS AND DISCHARGE TO AVOID ROUTING OF PIPING ACROSS WALK PATHS.
- M. SUPPORTS, ANCHOR BOLTS AND HANGERS FOR ALL EQUIPMENT SPECIFIED SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT AND PIPING SYSTEMS SPECIFIED SHALL BE FURNISHED AND INSTALLED AS PART OF THE WORK.
- N. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT AND VALVES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.
- O. INSTALL EXTERIOR WALL HYDRANTS AT 18" ABOVE FINISHED GRADE.
- P. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE. COORDINATE SLEEVING OF BEAMS AND CORING OF STRUCTURE WITH STRUCTURAL DRAWINGS AND DETAILS PRIOR TO INSTALLATION.
- Q. CONTRACTOR SHALL PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS NOT RECEIVING CONSTANT DISCHARGE FROM FIXTURES AND/OR EQUIPMENT AND AS REQUIRED BY STATE AND LOCAL CODES.
- R. ALL SANITARY AND STORM WATER PIPING BELOW GRADE IN AREAS SUBJECT TO TRAFFIC WITH LESS THAN TWO FEET OF EARTH COVER SHALL BE DUCTILE IRON.
- S. PROVIDE PIPING EXPANSION JOINTS AT EACH PIPE CROSSING AN INTERIOR BUILDING EXPANSION JOINT.
- T. ORIENT FLUSH VALVE HANDLES ASSOCIATED WITH BARRIER-FREE WATER CLOSETS ON THE WIDE SIDE OF THE STALL TO COMPLY WITH ADA REQUIREMENTS.
- U. PROVIDE LEAD FREE MIXING VALVES UNDER PUBLIC LAVATORIES, KITCHEN HAND WASHING SINKS OR ANY OTHER FIXTURE REQUIRING TEMPERED WATER TO MEET ASSE 1070/ASME A112.1070 OR LOCAL ADOPTED CODE.
- A DOUBLE WYE OR DOUBLE COMBINATION WYE AND 1/8 BEND FITTING IS NOT ACCEPTABLE IN A HORIZONTAL POSITION FOR A DRAINAGE SYSTEM.
- W. EQUIPMENT AND FIXTURES CALL FOR BY NAME AND MODEL NUMBER FORM THE STANDARD FOR SELECTION. EQUIPMENT AND FIXTURE MEETING OR EXCEEDING THAT SPECIFIED SHALL BE SUBMITTED FOR APPROVAL.

DRAINS SCHEDULE

TYPE	DESCRIPTION	CW	HW	DR	VENT
ICO WCO	INTERIOR CLEAN-OUT - ZURN Z-1400-T WITH FLANGE & C.C. (SIZE TO MATCH LINE SERVED)	-	-	-	-
FD-1	FLOOR DRAIN (3" DIA. OUTLET) - JR SMITH MODEL 2005-B WITH ADJUSTABLE ROUND STRAINER HEAD, FLASHING COLLAR AND P-TRAP. PROVIDE TRAP PRIMER.	-	-	3"	2"
FD-2	SHOWER DRAIN (2" DIA. OUTLET) - JR SMITH MODEL 220-10 SERIES WITH ADJUSTABLE ROUND STRAINER HEAD, FLASHING COLLAR AND P-TRAP.	-	-	2"	2"
TP	TRAP PRIMERS - PRECISION PLUMBING PRODUCTS INC. PR-500 TRAP PRIMER VALVE - INSTALL IN NEARBY COLD WATER LINE - PROVIDE ONE VALVE PER TRAP OR VALVES WITH DISTRIBUTION UNITS AS REQUIRED TO SERVE ALL FLOOR DRAINS AND OTHER NOTED LOCATIONS	1/2"	-	-	-

HOSE BIBB SCHEDULE

TYPE	DESCRIPTION	CW	HW	DR	VENT
NFHB-1 P-19A	NONFREEZE HOSE BIBB 1. ZURN MODEL Z-1321 WITH ANTI-SIPHON, BACKFLOW PREVENTER, AUTOMATIC DRAINING, KEY OPERATED REFER ARCHITECT DRAWINGS FOR WALL THICKNESS. 2. MOUNTING HEIGHT: 18" ABOVE FINISHED FLOOR/GRADE	3/4"	-	-	-

SHEET INDEX - PLUMBING

NUMBER	SHEET NAME
P0.1	NOTES, LEGENDS & SCHEDULES
P1.0	PLUMBING CORE & SHELL
P1.1	PLUMBING FIRST FLR./ MEZZ.BUILD-OUT
P2.0	PLUMBING DETAILS

USE DRAWINGS TO SPECIFICATIONS AND CITY, STATE, & LOCAL CODES FOR THE JOB OR OCCUPANCY OR PROJECTS. SPECIFICATIONS AND CODES ARE SUBJECT TO CHANGE WITHOUT NOTICE. THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

PLUMBING FIXTURE CONNECTION SCHEDULE

NOTES:

1. BRANCH CONNECTION SIZES ARE INDICATED. REFER TO FLOOR PLANS FOR MAIN PIPING SIZES.
2. PROVIDE MIXING VALVE CONFORMING TO ASSE 1070 OR CSA B125.3 UNDER HAND SINK/LAV.

FIXTURE TAG	FIXTURE DESCRIPTION	COLD WATER	HOT WATER	DRAIN	VENT	NOTES
FD-1	SEE DRAIN SCHEDULE	-	-	--	--	1.
FD-2	SEE DRAIN SCHEDULE	-	-	--	--	1.
P-1	WATER CLOSET (FLOOR MOUNTED - FLUSH VALVE - 1.6 GPF) A. FIXTURE: AMERICAN STANDARD #2858.016, WHITE ELONGATED BOWL B. VALVE: ZURN Z6000AV-WS1 1.6 GALLON PER FLUSH C. SEAT: AMERICAN STANDARD #5901.100 WHITE OPEN FRONT D. TRIM: WAX RING, TWO BOLT CAPS INCLUDED	1"	--	4"	2"	
P-1A	WATER CLOSET (FLOOR MOUNTED - FLUSH VALVE - BARRIER FREE - 1.6 GPF) A. FIXTURE: AMERICAN STANDARD #2854.016, WHITE ELONGATED BOWL B. VALVE: ZURN Z6000AV-WS1, 1.6 GALLON PER FLUSH C. SEAT: AMERICAN STANDARDS #5901.100 WHITE OPEN FRONT D. TRIM: WAX RING, TWO BOLT CAPS INCLUDED	1"	--	4"	2"	
P-2A	URINAL (ADA WALL HUNG - FLUSH VALVE - BARRIER FREE - 0.5 GPF) A. FIXTURE: AMERICAN STANDARD #6555.001, TOP SPUD, WHITE, ELONGATED RIM B. VALVE: ZURN Z6003AV-EWS, 0.5 GALLON PER FLUSH C. CARRIER: ZURN Z1221 D. MOUNTING: 17 INCHES MAX FROM FINISHED FLOOR TO FLOOR RIM	3/4"	--	2"	2"	
P-4	SHOWER (42"x42") A. FIXTURE: AQUARIUS #M242 SH TILE WITH CENTRAL DRAIN. PROVIDE SUPPORTS AS REQUIRED. UNIT SHALL BE EQUIPPED WITH INTEGRALLY MOLDED SOAP DISH AND 4" THRESHOLD. PROVIDE FACTORY-INSTALLED SHOWER CURTAIN ROD AND HEAVY-DUTY SHOWER CURTAIN. B. TRIM: SHOWER VALVE AND HEAD SHALL BE DELTA #T17230 CHROME PLATED LEVER TYPE SHOWER VALVE AND LOW FLOW 3-POSITION SHOWER HEAD	1/2"	1/2"	2"	2"	
P-4A	ADA SHOWER (48"x37") A. FIXTURE: FREEDOM SHOWERS #APF4836BF4P WITH CENTRAL DRAIN. ACCESSORIES: GRAB BARS, FOLDING SEAT COLLAPSIBLE WATER RETAINER, DRAIN, WEIGHTED SHOWER CURTAIN AND ROD, SLIDE BAR, 7/8 BARRIER FREE THRESHOLD. PROVIDE SUPPORTS AS REQUIRED. B. TRIM: SHOWER VALVE AND HEAD SHALL BE DELTA #T13H153-25 POLISHED CHROME PLATED PRESSURE BALANCE VALVE, PRESSURE BALANCE LEVER HANDLE, ADA COMPLIANT, HAND SHOWER BACKFLOW PROTECTION PROVIDE BY TWO CERTIFIED CHECK VALVES IN SERIES, HAND SHOWER ADA COMPLIANT. INTEGRAL CHECK VALVES, #5 HANDSHOWER WITH 24" STAINLESS STEEL SLIDE BAR, #5 SHOWER 1.5 GPM. C. COORDINATE REQUIREMENT FOR SLAB DEPRESSION AS REQUIRED WITH STRUCTURAL DRAWINGS.	1/2"	1/2"	2"	2"	
P-5	1-COMPARTMENT STAINLESS STEEL SINK - FREE STANDING A. FIXTURE: BK-RESOURCES #BK8BS-1-24-14 FREE STANDING 1-COMPARTMENT STAINLESS STEEL SINK, 24"x24"x14" NO DRAINBOARDS W/ GALV. LEGS, ADJUSTABLE HIGH IMPACT CORROSION RESISTANT FEET. B. FAUCET: BK-RESOURCES BKF-8W-10-G 8" CENTERSET SPLASH MOUNT FAUCET WITH 10" SWING SPOUT, #BKF-WBH WRIST BLADE HANDLES AND #BK-SMMK-90 FAUCET MOUNTING KIT. BRAIDED SUPPLIES AND GRID DRAIN. C. TRIM: ZURN 8700-PC SERIES 1-1/4 INCH SEMI-CAST BRASS P-TRAP. ZURN Z8804-XL-PC WHEEL HANDLE STOPS.	1/2"	1/2"	2"	2"	2.
P-5A	HAND SINK (STAINLESS STEEL WALL HUNG - ADA) A. FIXTURE: BK-RESOURCES #BKHS-ADA-D-P-G 14"x16"x5" WITH WALL MOUNTING HARDWARE AND DRAIN INCLUDED, 18 GA. TYPE 304 STEEL CONSTRUCTION B. FAUCET: BK-RESOURCES #BKF-4DM-3G-G 4" OC 3-1/2" GOOSENECK SPOUT FAUCET, 8" RISER, 1" TURN DOWN ON RISER, #BKF-C1414-VR VANDAL RESISTANT AERATOR .5 GPM AND WRIST BLADE HANDLES #BKF-WBH, WITH BRAIDED SUPPLIES AND GRID DRAIN. C. TRIM: ZURN 8700-PC SERIES 1-1/4 INCH SEMI-CAST BRASS P-TRAP. ZURN Z8804-XL-PC WHEEL HANDLE STOPS. D. CARRIER: PROVIDE WALL PLATE AND SUPPORTS	1/2"	1/2"	2"	2"	2.
P-6A	SINK (ADA DOUBLE COMPARTMENT) A. FIXTURE: JUST DL-ADA-1829-A-65-J 29"x18"x6-1/2" 304 STAINLESS STEEL DROP IN ADA SINK B. FAUCET: JUST #902, SINGLE LEVER DECK MOUNTED FAUCET 8" SWING SPOUT 2.2 GPM FLOW WITH HOSE SPRAY C. TRIM: TWO ZURN Z8743-1-PC GRID DRAIN WITH 1-1/2 INCH TAILPIECE. ZURN Z8804-XL-PC WHEEL HANDLE STOPS. ONE ZURN Z8702-PC SERIES 1-1/2 INCH BY 1-1/2 INCH SEMI-CAST BRASS P-TRAP. ONE ZURN Z8751 CONTINUOUS WASTE.	1/2"	1/2"	2"	2"	
P-9	MOP SINK A. FIXTURE: MUSTEE # 63M 24X24X10 FLOOR MOUNTED BASIN B. FAUCET: MUSTEE #63.600A HEAVY DUTY CHROME PLATED BRASS, 8" CENTER FAUCET WITH VACUUM BREAKER STOPS, MUSTEE #65.700 HOSE & HOSE HOLDER, MUSTEE # 65.600 MOP HANGER, BUMPER AND WALL GUARDS. 3" DRAIN. C. MOUNTING: MOUNT FAUCET 36 INCHES ABOVE FINISHED FLOOR.	3/4"	3/4"	3"	2"	
P-12B	ELECTRIC WATER COOLER HIGH-LOW WITH BOTTLE FILLER A. FIXTURE: ELKAY L2318WSVRK - EZ120 WITH COOLING SYSTEM 8GPH STAINLESS STEEL 50 DEG. F WATER 115V/1 - 1/5 HP COMP. 1.5 GPM FILL RATE. ADJUST STREAM HEIGHT TO 4" ABOVE SPOUT B. TRIM: ONE ZURN Z8802-XL-LR-8860-12-PC SUPPLY WITH WHEEL HANDLE STOP. ONE ZURN Z8700-PC SERIES, 1-1/4 INCH SEMI-CAST BRASS P-TRAP C. MOUNTING: 36 INCHES FROM LOW BUBBLER TO FINISHED FLOOR. D. CARRIER: (2) ZURN Z1225	1/2"	--	2"	2"	
P-19	SEE HOSE BIBB SCHEDULE	3/4"	--			
P-19A	SEE HOSE BIBB SCHEDULE	3/4"	--			
P-24D	EMERGENCY EYEWASH - WALL MOUNTED A. FIXTURE: BRADLEY #519-220B GALV. STEEL PROTECTED WITH BRADTECT SAFETY YELLOW COATING WITH WALL BRACKET. B. TRIM: BRADLEY 519-2000 NAVIGATOR EMERGENCY THERMOSTATIC MIXING VALVE WITH COLD WATER BY-PASS IN A STAINLESS STEEL CABINET ASSEMBLY. PROVIDE UNIT WITH ADJUSTABLE HIGH TEMPERATURE LIMIT STOP. PROVIDE TEMPERATURE GAUGE FOR OUTLET SIDE OF MIXING VALVE AS PART OF ASSEMBLY. CONTRACTOR SHALL COORDINATE MOUNTING LOCATION OF RECESSED MIXING VALVE BOX WALL WITH ARCHITECT.	3/4"	3/4"	2"	2"	

DOMESTIC WATER HEATER SCHEDULE

GENERAL NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. PROVIDE 4" THICK REINFORCED CONCRETE PAD BELOW ALL FLOOR MOUNTED EQUIPMENT.
3. PROVIDE DISCONNECT WITHIN SIGHT OF THE WATER HEATER AS REQUIRED PER IPC-2015 SECTION 504.3. PROVIDE BRANCH CIRCUIT PROTECTION AS REQUIRED. COORDINATE WITH ELECTRICAL DRAWINGS FOR EXACT REQUIREMENT PRIOR TO CONSTRUCTION.

REMARKS:

- A. HEATER WITH BRONZE CIRCULATING PUMP(S) AND STARTER(S).
B. CONDENSATE NEUTRALIZATION KIT.
C. CONCENTRIC VENT KIT WITH APPLICABLE WALL OR ROOF CAP.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	RECOVERY GPH (90° RISE)	FUEL	INPUT BTU	STORAGE TANK GAL.	REMARKS
GWH-1	DOMESTIC	A.O. SMITH	BTXL-100	129	NATURAL GAS	100000	75	

PUMP SCHEDULE

GENERAL NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. MOUNT HOT WATER RECIRCULATING PUMP AT 5'-0" ABOVE FINISHED FLOOR WITH WALL BRACKETS.

REMARKS:

- A. STAINLESS STEEL CONSTRUCTION FOR DOMESTIC WATER SERVICE.
B. STARTER BY DESIGN 26.

DESIGNATION	MANUFACTURER	MODEL NUMBER	TYPE	GRM	TOTAL HEAD FT	MOTOR HP	ELECTRICAL VOLTAGE	PHASE	REMARKS
RP-1	BELL & GOSSETT	ECOCIRC 20-18	IN-LINE	10	15	70 WATTS	115 V	1	A,B

PIPING MATERIALS SCHEDULE

PLUMBING SYSTEM	PLUMBING MATERIAL DESCRIPTION
SANITARY DRAIN PIPING	STANDARD WEIGHT CAST IRON PIPE, BELL & SPIGOT JOINTS (BELOW SLAB)
SANITARY DRAIN PIPING	STANDARD WEIGHT CAST IRON PIPE, WITH NO HUB JOINTS (ABOVE SLAB)
VENT PIPING	STANDARD WEIGHT CAST IRON PIPE, WITH NO HUB JOINTS (ABOVE SLAB)
DOMESTIC WATER PIPING (ABOVE SLAB)	TYPE "L". COPPER TUBING, WITH WROUGHT COPPER FITTINGS (ASTM B88).
DOMESTIC WATER PIPING (BELOW SLAB)	TYPE "K". COPPER TUBING, WITH BRAZED WROUGHT COPPER FITTINGS (ASTM B88).

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DESCRIPTION	
REVISION 1	

TDOT GIBSON COUNTY MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

CONSTRUCTION SEPTEMBER 29, 2023
PROJECT # 2023-11-09-02

Wold **HFR** DESIGN

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SSR Project #: 22640620

SEALED BY

JENNIFER ANNE MARSH
REGISTERED ENGINEER
No. 00108421
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

NOTES,
LEGENDS &
SCHEDULES
P0.1

GENERAL PLUMBING SPECIFICATIONS

- FURNISH, INSTALL, PROVIDE AND MAKE OPERATIVE ALL EQUIPMENT, MATERIALS, SUPERVISION, LABOR AND ANY AND ALL ITEMS NECESSARY FOR THE PROPER INSTALLATION OF A CORRECTLY FUNCTIONING PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
- EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. EQUALS MAY BE SUBSTITUTED ONLY IF PRIOR APPROVAL IS OBTAINED FROM OWNER.
- ORDINANCES, PERMITS AND CODES. THE WORKMANSHIP AND MATERIALS COVERED BY THESE SPECIFICATIONS SHALL CONFORM TO ALL REGULATIONS OF ALL THE AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CONNECTION AND INSPECTION FEES AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEM.
- THE LOCATION OF PIPING AND EQUIPMENT, AS SHOWN ON THE DRAWINGS, IS DIAGRAMMATIC AND SCHEMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN WORKING LAYOUT TO ELIMINATE ALL STRUCTURAL AND ARCHITECTURAL CONFLICTS IN THE BUILDING.
- VERIFY ALL MEASUREMENTS AT THE SITE AND COORDINATE ALL WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF OTHER TRADES.
- INSULATION: ALL INSULATION, INCLUDING JACKET, OR FACING AND ADHESIVE USED TO ADHERE TO FACING OR JACKET TO THE INSULATION SHALL HAVE A COMPOSITE FIRE AND SMOKE HAZARD RATING TESTED BY THE PROCEDURE RECOMMENDED BY ASTM E-84, NFPA 225 OR UL 723, NOT EXCEEDING FLAME SPREAD 25, SMOKE DEVELOPED 50. ALL INSULATION ACCESSORIES SHALL ALSO HAVE THE RATING LISTED ABOVE.
- DOMESTIC WATER PIPES SHALL BE INSULATED WITH ONE (1) INCH THICK PREFORMED HIGH DENSITY FIBERGLASS WITH FACTOR APPLIED VAPOR BARRIER AND SELF SEALING LAP, SUCH AS MANVILLE MICRO-LOK.
- DOMESTIC WATER PIPES LARGER THAN 1 1/4" SHALL BE TYPE "L" COPPER ABOVE GROUND / SLAB AND TYPE "K" COPPER BELOW GRADE / SLAB. INSTALL DIELECTRIC UNIONS AT CONNECTIONS TO DISSIMILAR METALS. DOMESTIC HOT AND COLD WATER PIPING FOR PIPE SIZES 1 1/4" AND SMALLER MAY BE CROSS-LINKED POLYETHYLENE (PEX) MANUFACTURED IN ACCORDANCE WITH ASTM F876 AND F877. FITTING ASSEMBLY SHALL BE MANUFACTURED FROM MATERIAL LISTED IN ASTM F1960. FITTINGS SHALL BE INSTALLED INSIDE EXPANDED PIPE WITH FITTING ID MATCHING TUBING ID. SUPPLY STOPS SHALL BE COMPATIBLE WITH THE PEX TUBING AND SUPPLIED BY THE SAME TUBING MANUFACTURER.
- ANY WATER PIPING ROUTED IN AN EXTERIOR WALL SHALL BE INSIDE THE FACE OF THE BUILDING INSULATION OR OTHERWISE EXPOSED TO FREEZING TEMPERATURES SHALL BE PROVIDED WITH CHROMOLOX SRF (OR EQUAL) SELF-REGULATING FREEZE PROTECTION CABLE - 8 WATTS PER LINEAL FOOT OF PIPING.
- NATURAL GAS PIPE SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTINGS. INSTALL PRESSURE REDUCING VALVES WHERE REQUIRED. SYSTEM INSTALLATION TO BE IN ACCORDANCE WITH NFPA 34 AND LOCAL CODES.
- IT IS THE INTENT OF THESE DRAWINGS TO COVER ALL WORK FOR A COMPLETE FIRST CLASS PLUMBING INSTALLATION - ANY EQUIPMENT, TRIM HARDWARE AND/OR DEVICES SHALL BE UTILIZED IN THIS CLASS OF WORK THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AS PART OF HIS TOTAL WORK.
- ALL PIPING PASSING THRU A RATED OR NON-RATED WALL TO BE SLEEVED AND CAULKED (WITH FIREPROOF MATERIAL IF REQUIRED) IN ACCORDANCE WITH NFPA. STATE AND LOCAL CODES AS REQUIRED - REFER TO ARCHITECT FOR VARIOUS WALL RATINGS.

HOSE BIBB SCHEDULE

TYPE	DESCRIPTION	CW	HW	DR	VENT
HB-1 P-19	HOSE BIBB 1. ZURN MODEL Z-1341XL LEAD FREE, ANTI-SIPHON, MODERATE CLIMATE, WITH EXTERNAL VACUUM BREAKER WITH MALE HOSE CONNECTION, VANDAL RESISTANT OPERATING STEM AND SECURED WHEEL HANDLE. 2. MOUNTING HEIGHT: 18" ABOVE FINISHED FLOOR	3/4"	-	-	-

DRAINS SCHEDULE

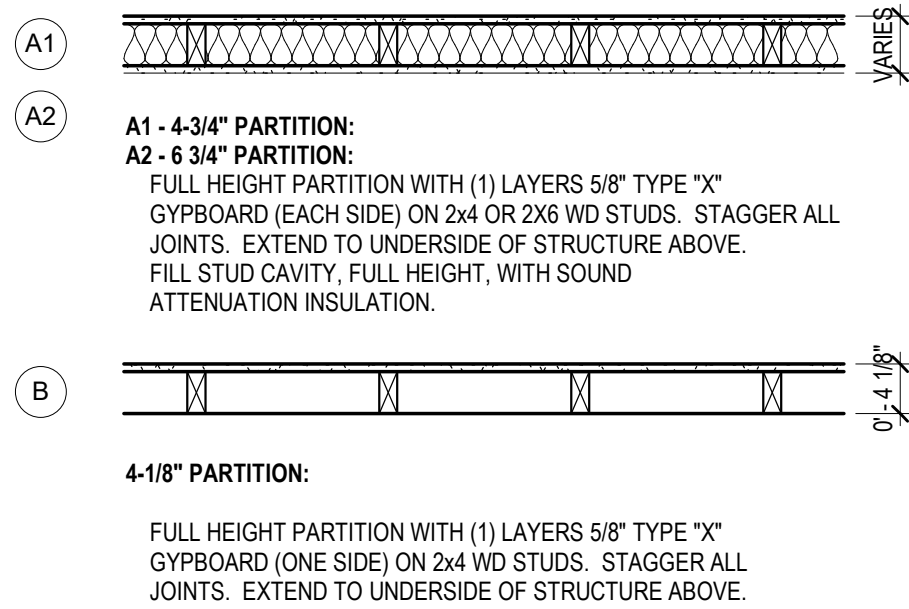
TYPE	DESCRIPTION	CW	HW	DR	VENT
GCO	GRADE/EXTERIOR CLEAN-OUT - ZURN Z-1400 WITH HEAVY DUTY COVER PLATE. INSTALL GCO IN MIN. 12"x12"x6" CONC. PAD FLUSH WITH TOP OF CLEANOUT. (SEE PLANS FOR SIZES)	-	-	-	-
ICO WCO	INTERIOR CLEAN-OUT - ZURN Z-1400-T WITH FLANGE & C.C. (SIZE TO MATCH LINE SERVED)	-	-	-	-
FD-1	FLOOR DRAIN (3" DIA. OUTLET) - JR SMITH MODEL 2005-B WITH ADJUSTABLE ROUND STRAINER HEAD, FLASHING COLLAR AND P-TRAP. PROVIDE TRAP PRIMER.	-	-	3"	2"
FD-2	SHOWER DRAIN (2" DIA. OUTLET) - JR SMITH MODEL 220-10 SERIES WITH ADJUSTABLE ROUND STRAINER HEAD, FLASHING COLLAR AND P-TRAP.	-	-	2"	2"
TP	TRAP PRIMERS - PRECISION PLUMBING PRODUCTS INC. PR-500 TRAP PRIMER VALVE - INSTALL IN NEARBY COLD WATER LINE - PROVIDE ONE VALVE PER TRAP OR VALVES WITH DISTRIBUTION UNITS AS REQUIRED TO SERVE ALL FLOOR DRAINS AND OTHER NOTED LOCATIONS	1/2"	-	-	-

PLAN KEYED NOTES

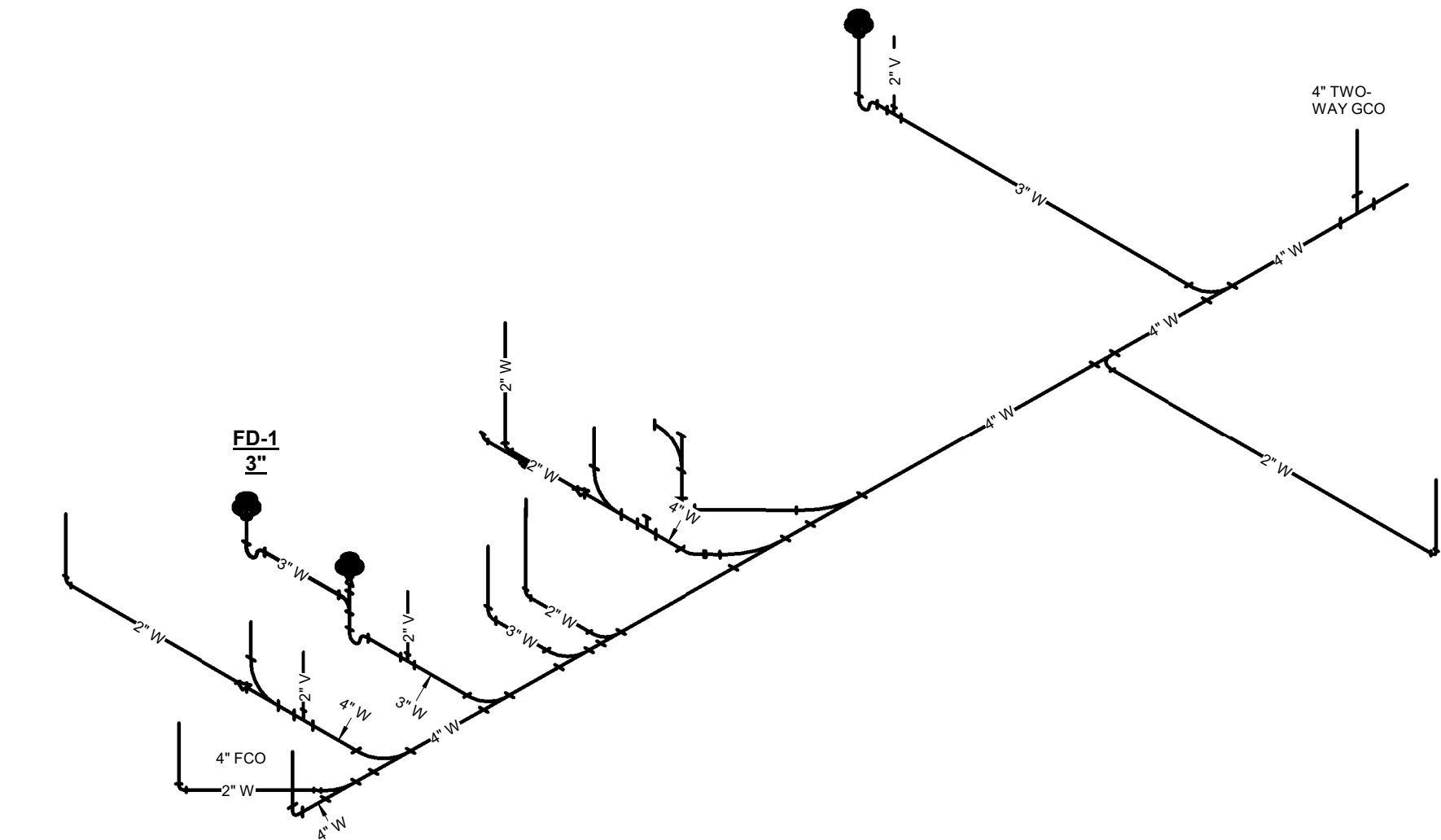
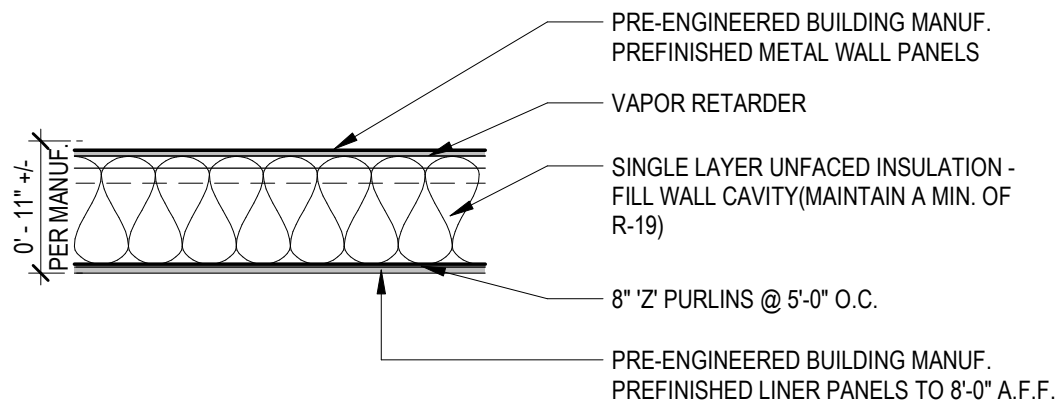
- SEE CIVIL ENGINEERING SITE PLAN FOR CONTINUATION.
- COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL FOOTING PRIOR TO CONSTRUCTION.
- 2" DOMESTIC CW SERVICE. ESTIMATED MAX. DEMAND 46 GPM.
- CONTRACTOR SHALL COORDINATE WITH LOCAL WATER SUPPLIER AND PROVIDE POINT OF ENTRY BACKFLOW PREVENTER AS REQUIRED. PIPE UNIT RELIEF OPENING THRU EXTERIOR WALL AND SPILL 6" ABOVE GRADE. PROVIDE BUG SCREEN OR FLAPPER.
- 4" WASTE UP.
- 3" WASTE UP.
- 1 1/4" CONDENSATE CONNECTION WITH DEEP SEAL TRAP. COORDINATE EXACT LOCATION OF DRAIN PRIOR TO CONSTRUCTION.
- DRY WELL. SEE DETAIL

6
P2.0
- 2" WASTE UP.
- 2" VENT UP.
- 3" VENT UP.

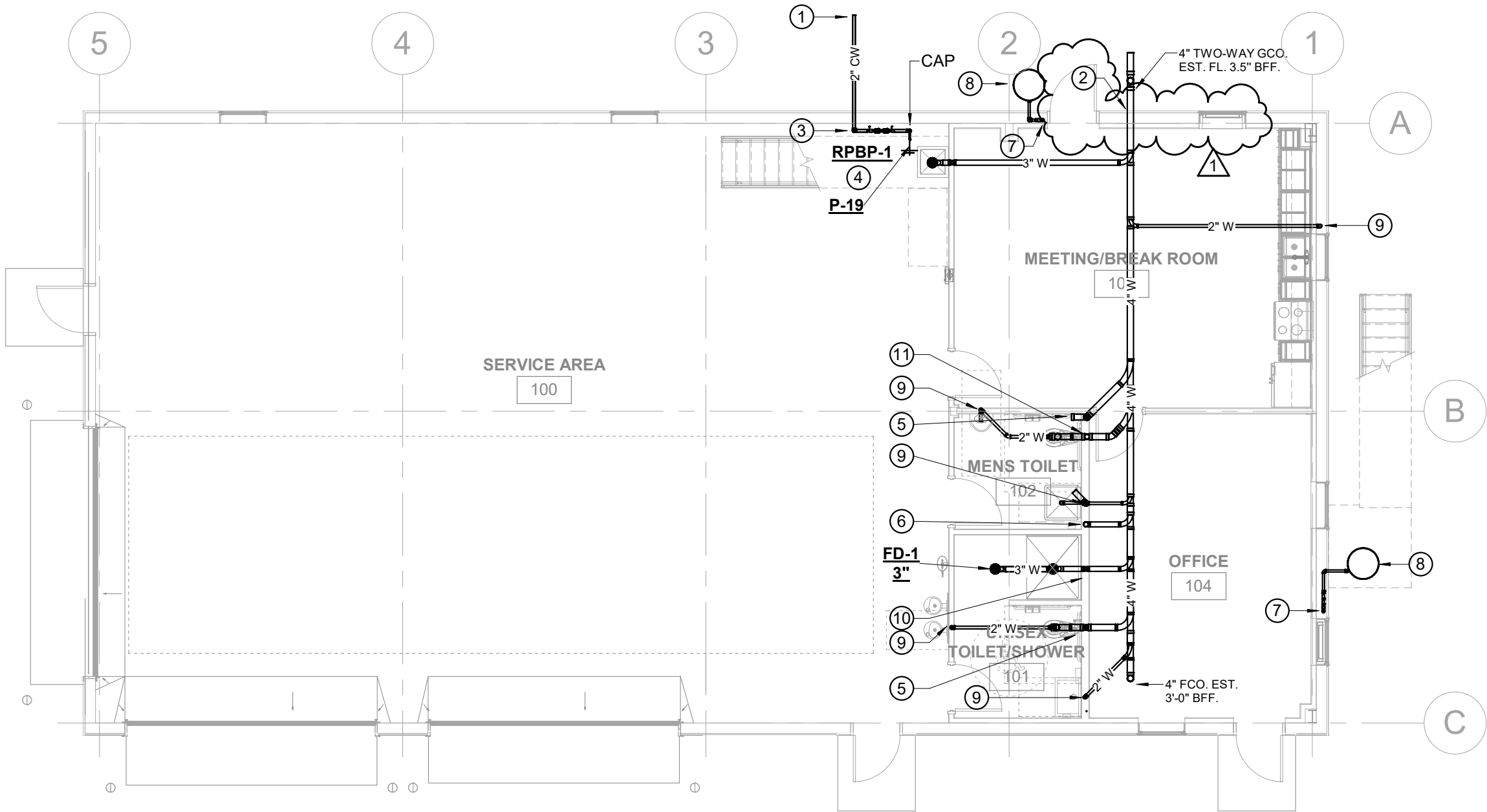
INTERIOR WALL TYPES



EXTERIOR WALL TYPES



2 PLUMBING RISER DIAGRAM CORE AND SHELL



1 PLUMBING PLAN - LEVEL 1 CORE AND SHELL

1/8" = 1'-0"

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


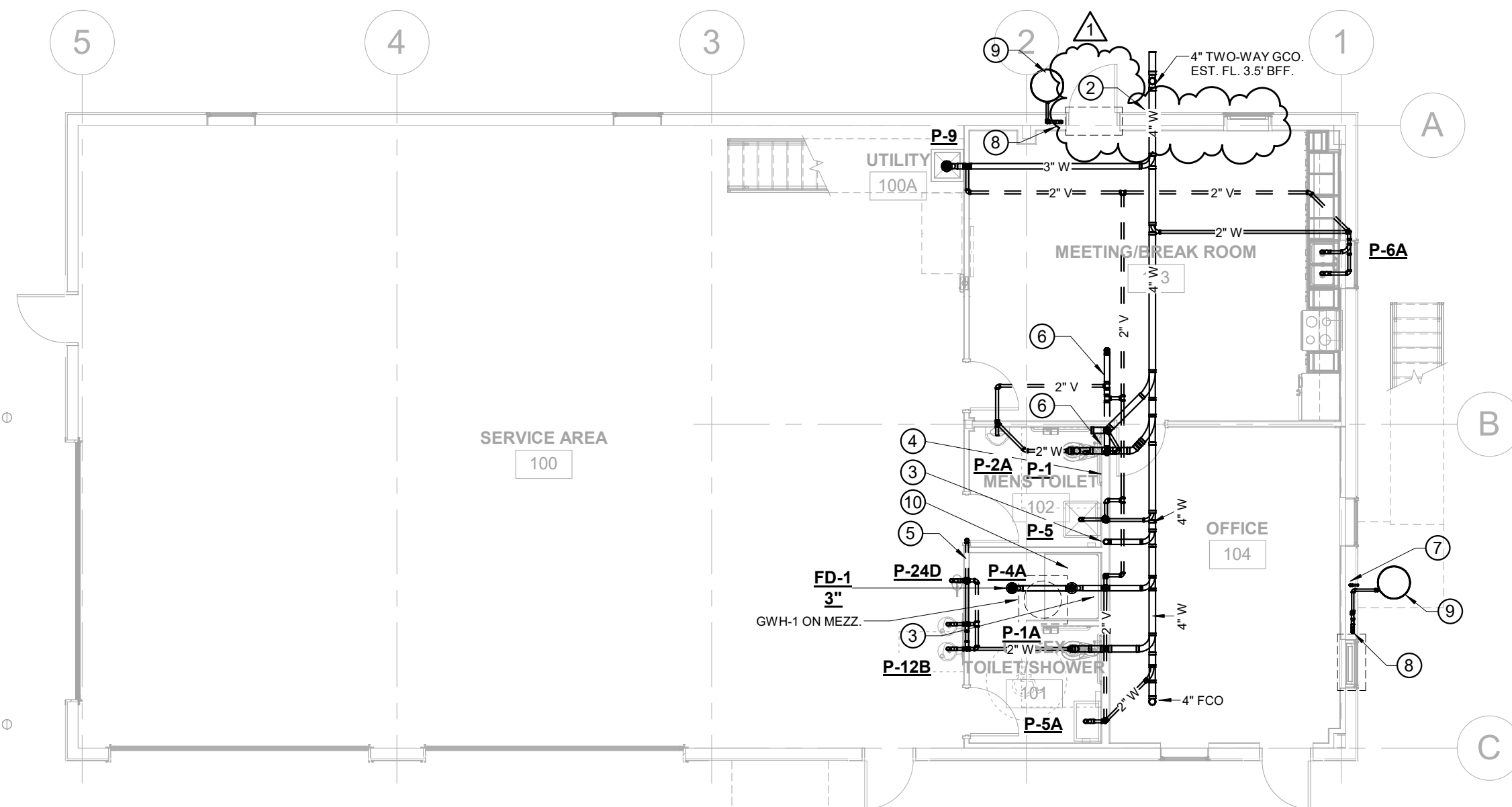
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PLUMBING
CORE & SHELL

P1.0

PLAN KEYED NOTES


- SEE CIVIL ENGINEERING SITE PLAN FOR CONTINUATION.
- COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL FOOTING PRIOR TO CONSTRUCTION.
- 3" WASTE UP
- 4" WASTE UP W/ WCO.
- 2" VENT UP.
- 2" VENT UP.
- 1" DRAIN PAN FROM ABOVE. SPILL 6" ABOVE GRADE.
- 1 1/4" CONDENSATE CONNECTION WITH DEEP SEAL TRAP. COORDINATE EXACT LOCATION OF DRAIN PRIOR TO CONSTRUCTION.
- DRY WELL. SEE DETAIL 
- COORDINATE REQUIREMENT FOR SLAB DEPRESSION AS REQUIRED.

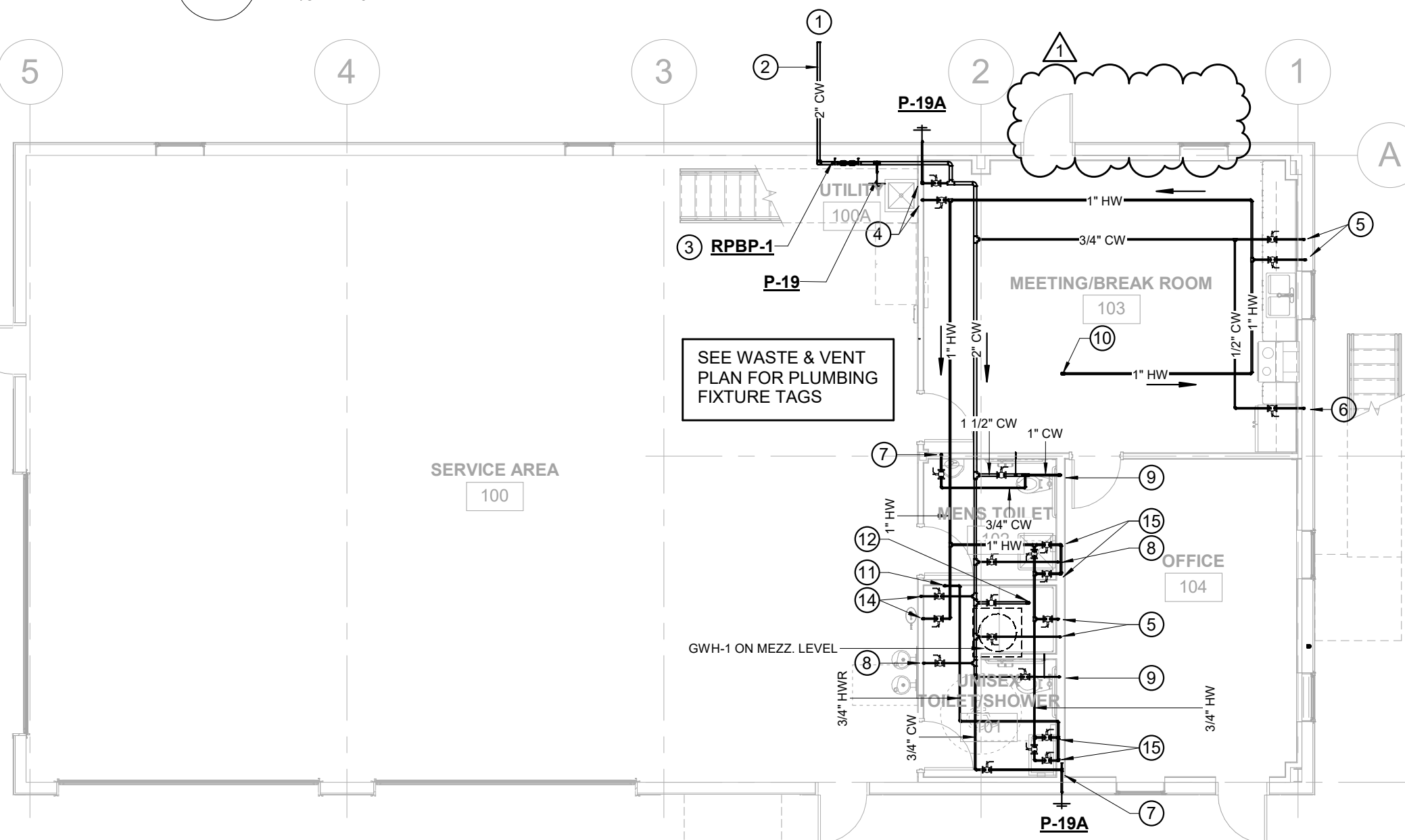


4 FIRST FLOOR PLAN - WASTE AND VENT

1/8" = 1'-0"

PLAN KEYED NOTES

- SEE CIVIL ENGINEERING SITE PLAN FOR CONTINUATION.
- 2" DOMESTIC CW SERVICE. MAX. DEMAND 46 GPM.
- CONTRACTOR SHALL COORDINATE WITH LOCAL WATER SUPPLIER AND PROVIDE POINT OF ENTRY BACKFLOW PREVENTER AS REQUIRED. PIPE UNIT RELIEF OPENING THRU EXTERIOR WALL AND SPILL 6" ABOVE GRADE. PROVIDE BUG SCREEN OR FLAPPER.
- 3/4" HW & 3/4" CW DN.
- 1/2" HW & CW DN.
- 1/2" CW DN. TO ICE MAKER BOX. MAKE FINAL CONNECTION AS REQUIRED.
- 3/4" CW DN.
- 1/2" CW DN.
- 1" CW DN.
- 1" HW FROM ABOVE.
- 3/4" HWR UP.
- 1 1/2" CW UP.
- NOT USED.
- 3/4" HW & CW DN.
- 3/4" HW MAIN UP & DN. SEE DOMESTIC HW LOOP DETAIL 



2 FIRST FLOOR PLAN - WATER

1/8" = 1'-0"

INTERIOR WALL TYPES

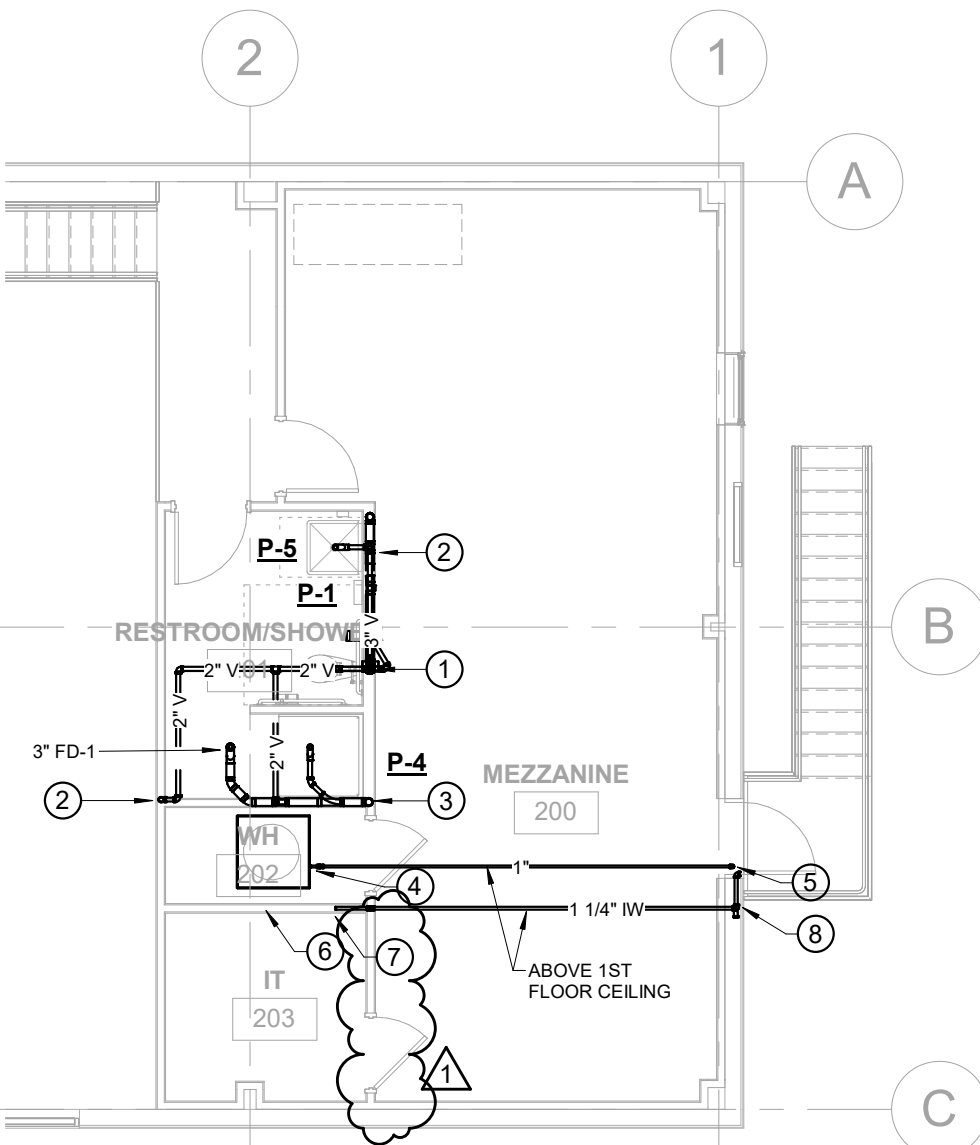
- A1 - 4-3/4" PARTITION:
A2 - 6 3/4" PARTITION:
FULL HEIGHT PARTITION WITH (1) LAYERS 5/8" TYPE "X" GYPBOARD (EACH SIDE) ON 2x4 OR 2x6 WD STUDS. STAGGER ALL JOINTS. EXTEND TO UNDERSIDE OF STRUCTURE ABOVE. FILL STUD CAVITY, FULL HEIGHT, WITH SOUND ATTENUATION INSULATION.
- B
4-1/8" PARTITION:
FULL HEIGHT PARTITION WITH (1) LAYERS 5/8" TYPE "X" GYPBOARD (ONE SIDE) ON 2x4 WD STUDS. STAGGER ALL JOINTS. EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.

EXTERIOR WALL TYPES

- PRE-ENGINEERED BUILDING MANUF. PREFINISHED METAL WALL PANELS
VAPOR RETARDER
SINGLE LAYER UNFACED INSULATION - FILL WALL CAVITY (MAINTAIN A MIN. OF R-19)
8" Z" PURLINS @ 5'-0" O.C.
PRE-ENGINEERED BUILDING MANUF. PREFINISHED LINER PANELS TO 8'-0" A.F.F.

PLAN KEYED NOTES


- 4" WASTE DN. & 4" VTR.
- 2" VENT FROM BELOW.
- 3" WASTE DN.
- 1" DRAIN PAN TO ABOVE 1ST FLOOR CEILING.
- 1" DRAIN PAN. DN.
- PROVIDE CARBON MONOXIDE MONITOR ON EXTERIOR WALL OF WATER HATER CLOSET. THE ACTIVATION OF THE MONITOR SHALL SOUND AN AUDIBLE ALARM WITHIN THE SPACE.
- CONDENSATE CONNECTION FOR AC UNITS.
- 1 1/4" IW/CONDENSATE DRAIN DN.

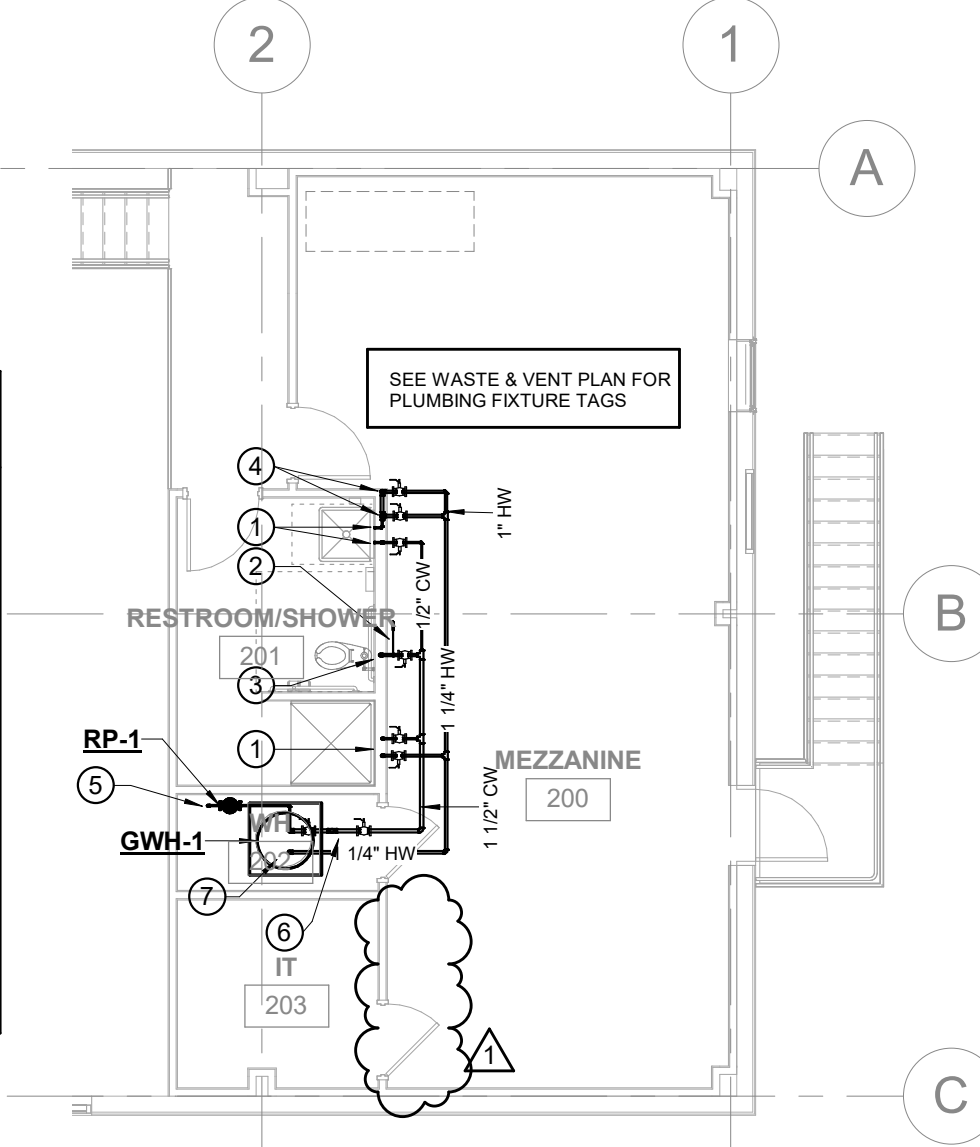


3 MEZZ LEVEL PLAN - WASTE AND VENT

1/8" = 1'-0"

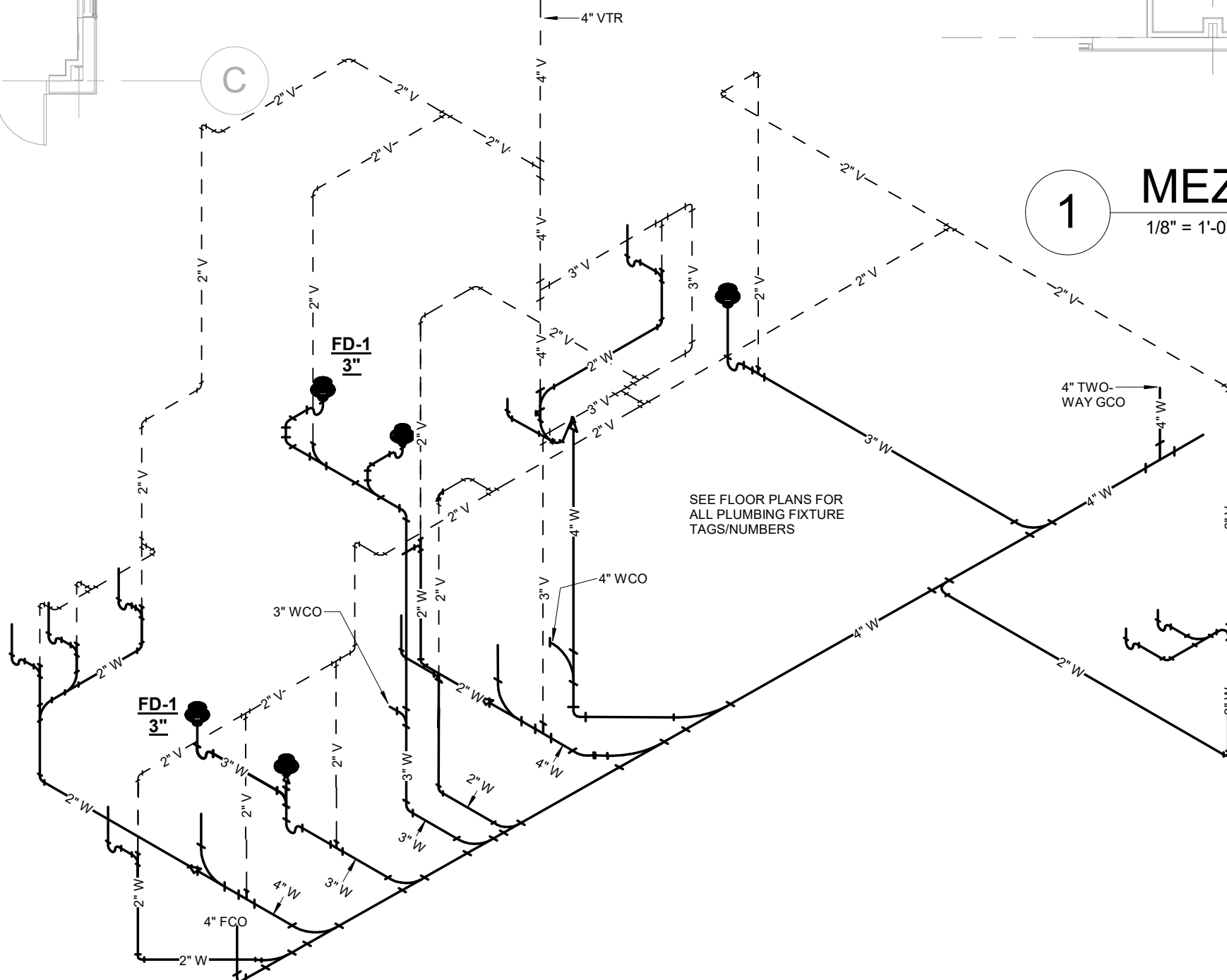
PLAN KEYED NOTES

- 1/2" HW & CW DN.
- BALL VALVE AND SHOCK ARRESTOR ABOVE CEILING. PROVIDE ACCESS PANEL AS REQUIRED.
- 1" CW DN.
- 1" HW DN.
- 3/4" HWR FROM BELOW.
- 1 1/2" CW FROM BELOW.
- 1 1/4" HW, 1 1/4" CW, 3/4" HWR TO WATER HEATER. SEE TYPICAL DETAIL 



1 MEZZ LEVEL PLAN - WATER

1/8" = 1'-0"



5 PLUMBING RISER DIAGRAM

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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PLUMBING
FIRST FLR./
MEZZ.BUILD-OUT
P1.1

SHEET KEYED NOTES

- ① PANEL AIC RATING IS BASED ON ASSUMPTION OF 75KVA UTILITY TRANSFORMER. CONTACT ELECTRICAL ENGINEER IF AVAILABLE FAULT CURRENT EXCEEDS 22,000 AMPS.
- ② CONFIRM BREAKER SIZE WITH EQUIPMENT MANUFACTURER AND ADJUST WIRING AS REQUIRED. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH MECHANICAL.
- ③ COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.
- ④ PROVIDE 60/2 NON FUSED DISCONNECT FOR AIR COMPRESSOR. PROVIDE 2#6, 1#10G, IN 3/4"C. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION WITH EQUIPMENT PROVIDER.
- ⑤ PROVIDE LOCAL DISCONNECT AT FLOOR LEVEL. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND LOCATION WITH OWNER.
- ⑥ PROVIDE 400 AMP, 2-POLE, 3-WIRE, NEMA 3R, FUSIBLE, QUICK CONNECT DOUBLE THROW SAFETY SWITCH WITH INTEGRATED CAMLOCK RECEPTACLES. THE SAFETY SWITCH WILL CONNECT THE ELECTRICAL UTILITY TO THE BUILDING IN THE UPPER POSITION AND WILL ENERGIZE THE CAMLOCK RECEPTACLES IN THE LOWER POSITION. QUICK CONNECT DOUBLE THROW SAFETY SWITCH TO BE EATON CATALOG NUMBER DT225NNRKLK OR APPROVED EQUAL. PROVIDE 400 AMP FUSES IN BOTH UPPER AND LOWER POSITION. PROVIDE BONDING JUMPER BETWEEN NEUTRAL AND GROUND BUS.
- ⑦ COORDINATE INSTALLATION OF WALL MOUNTED EXIT LIGHT WITH MOUNTING OF EF-1 MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.

GENERAL NOTES

- A. VISIT PROJECT SITE BEFORE SUBMISSION OF BID AND BECOME FAMILIAR WITH EXISTING CONDITIONS, LOCATIONS OF UTILITIES, AND EXTENT OF DEMOLITION REQUIRED.
- B. CONFIRM CAPACITY OF EXISTING TRANSFORMER AND COORDINATE UPGRADE WITH UTILITY IF NEEDED. PROVIDE TRENCHING, CONDUIT, METER BASE, CONCRETE PAD AND OTHER ITEMS AS REQUIRED.
- C. PROVIDE CONTROL POWER SOURCE FOR ALL STARTERS AND CONTROL PANELS NOT SUPPLIED WITH CONTROL POWER TRANSFORMERS. INSTALL AND CONNECT ALL CONTROL DEVICES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- D. VERIFY ELECTRICAL POWER REQUIREMENTS FOR ALL EQUIPMENT WITH SUBMITTALS. PROVIDE CIRCUITS AND FUSES SIZED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- E. MAINTAIN CODE REQUIRED WORKING CLEARANCE AT ALL ELECTRICAL PANELS, DISCONNECT SWITCHES AND STARTERS.
- F. PROVIDE DISCONNECT SWITCH FOR ANY HARDWIRED EQUIPMENT NOT SUPPLIED WITH DISCONNECTING MEANS.
- G. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND CONTROL REQUIREMENTS FOR MECHANICAL EQUIPMENT AND INSTALL STARTERS, DISCONNECT SWITCHES AND CONVENIENCE RECEPTACLES THAT MAY BE FURNISHED WITH THE EQUIPMENT.
- H. COORDINATE EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS. PROVIDE FIXTURES COMPATIBLE WITH CEILING TYPE INSTALLED.
- I. LIGHTING FIXTURES FOR EMERGENCY USE SHALL BE PROVIDED WITH INTEGRAL BATTERY. THOSE FIXTURES SHALL BE CIRCUITED SUCH THAT THEY AUTOMATICALLY SWITCH TO BATTERY OPERATION UPON FAILURE OF POWER TO CIRCUIT. EXIT LIGHTS SHALL BE UNSWITCHED.
- J. CONNECT SINGLE STATION CEILING MOUNTED SMOKE DETECTORS SUCH THAT WHEN ONE GOES INTO ALARM, ALL WILL SOUND ALARM.
- K. ALL RECEPTACLES ON DEDICATED CIRCUITS SHALL BE RATED NO LESS THAN CIRCUIT OVER CURRENT DEVICE.
- L. LIGHTS IN EACH OFFICE WITH MORE THAN ONE FIXTURE SHALL BE FURNISHED WITH A B-LEVEL DRIVER (50% / 100%) TO FACILITATE DUEL LEVEL SWITCHING. PROVIDE A THREE POSITION SWITCH (OFF / 50% / 100%) IN EACH OFFICE.
- M. EXTERIOR LIGHTING SHALL BE TURNED ON AT DUSK BY A PHOTOCELL AND TURNED OFF AT A PRESET TIME BY A TIME SWITCH. PHOTOCELL SHALL BE MOUNTED ON BUILDING NEAR ROOF. TIME SWITCH SHALL BE MOUNTED ADJACENT TO ELECTRICAL PANEL. TIME SWITCH SHALL BE SEVEN DAY WITH RESERVE POWER.

PROJECT NO.	27999-3605-04
PIN NO.	131119
DATE	09/09/25
BY	
REVISIONS	
DESCRIPTION	REVISION 1

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

PHASE
CONSTRUCTION
SEPTEMBER 29, 2023
PROJECT # 2023-11-09-02

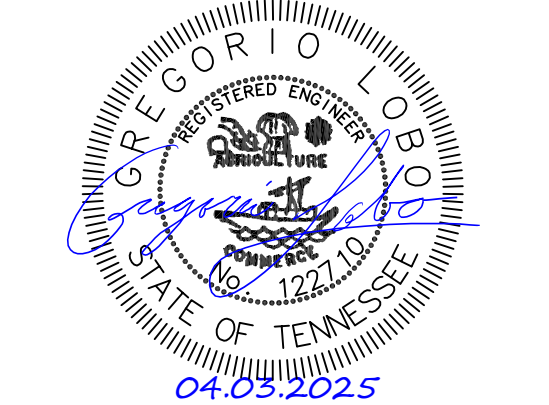
Wold **HFR**
DESIGN

214 Centerview Drive Suite 300
Brentwood, TN 37027
woldae.com phone: 615.370.8500
fax: 615.370.8530

SSR **Smith**
Seckman
Reid, Inc.

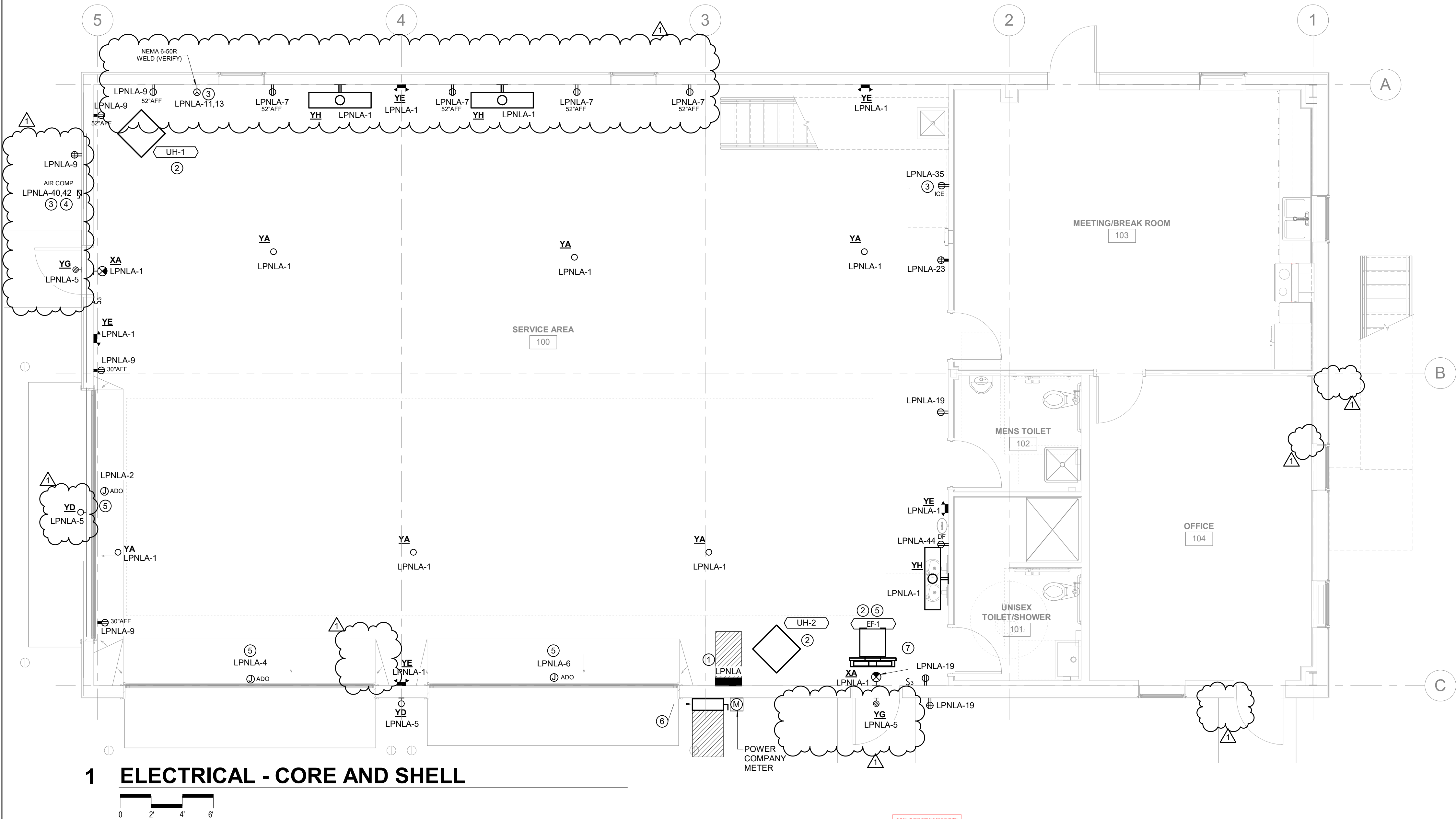
2650 Thousand Oaks Boulevard,
Suite 4200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 22640620

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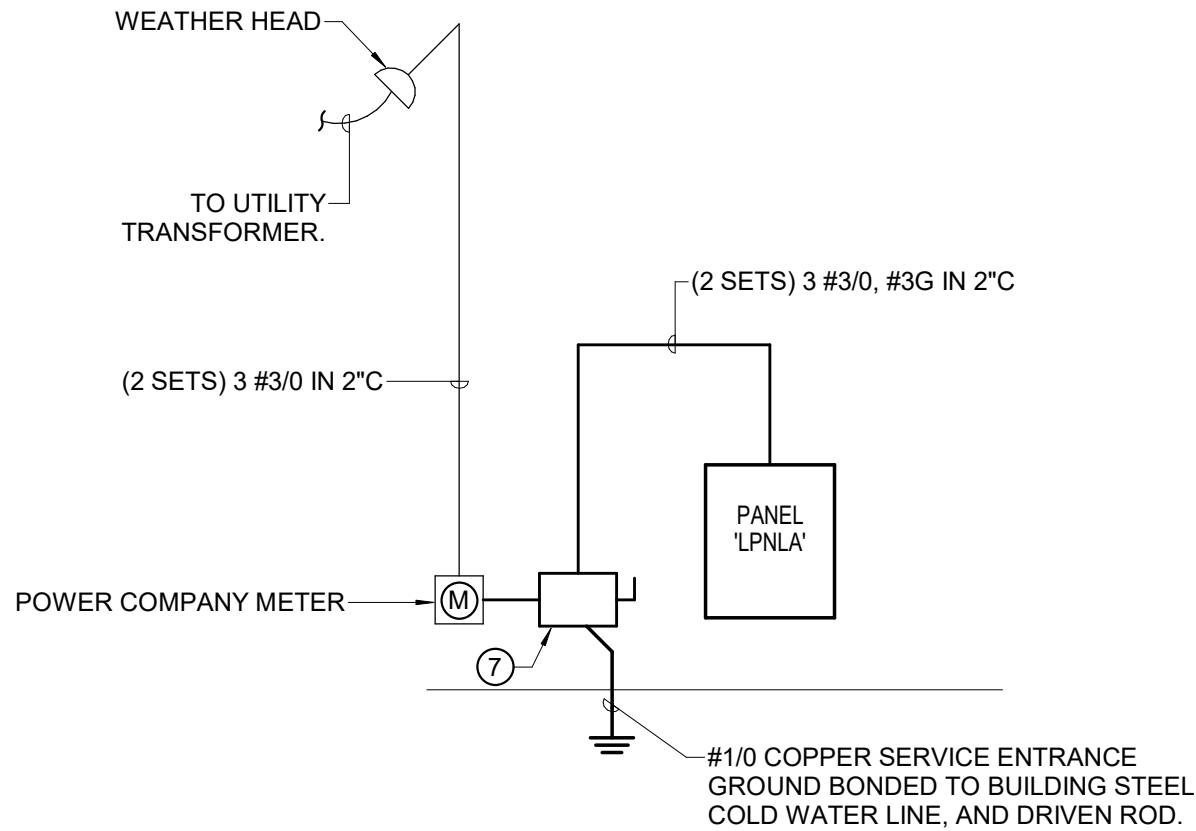
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ELECTRICAL
CORE AND
SHELL
E1.0

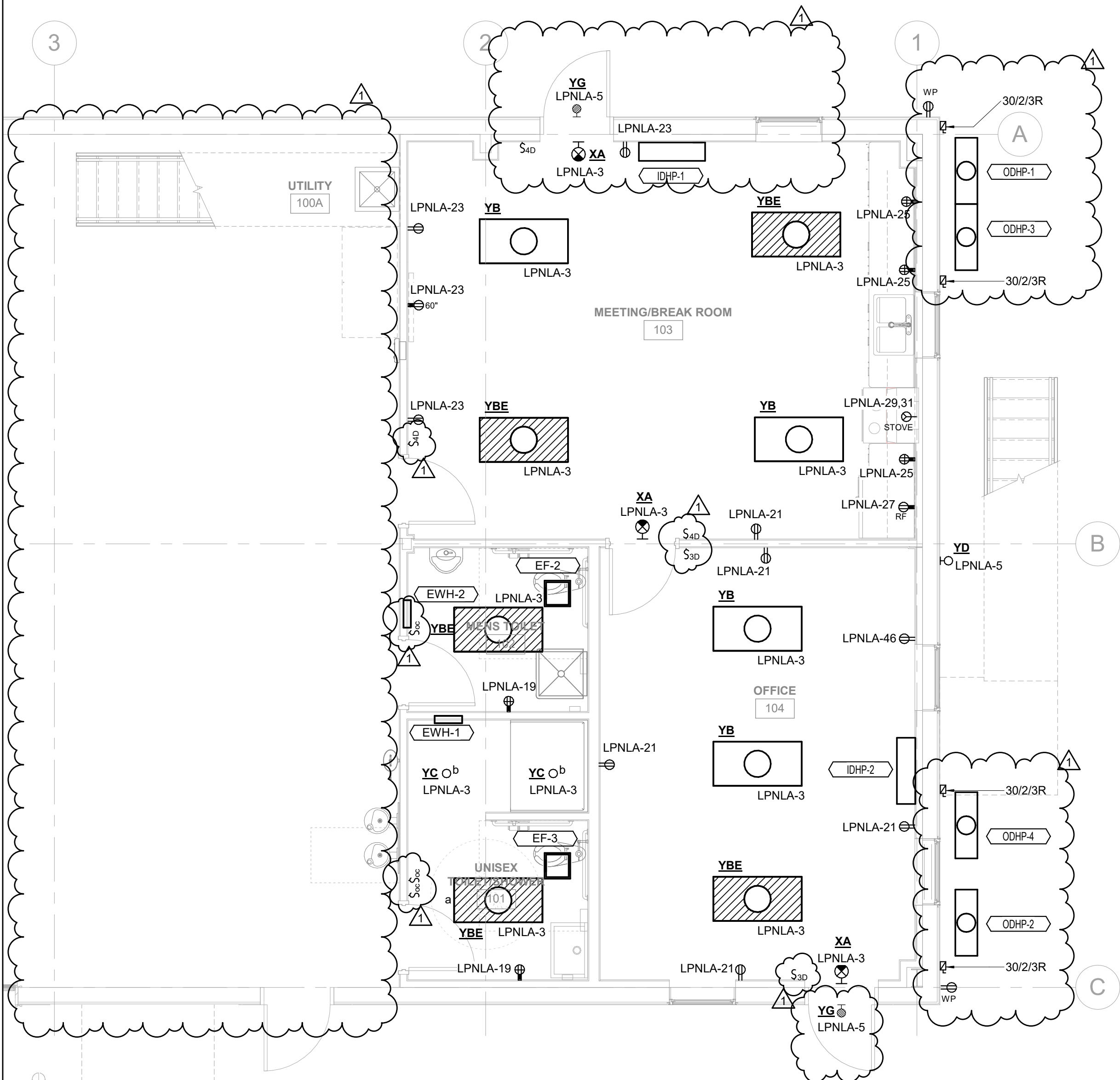


1 ELECTRICAL - CORE AND SHELL

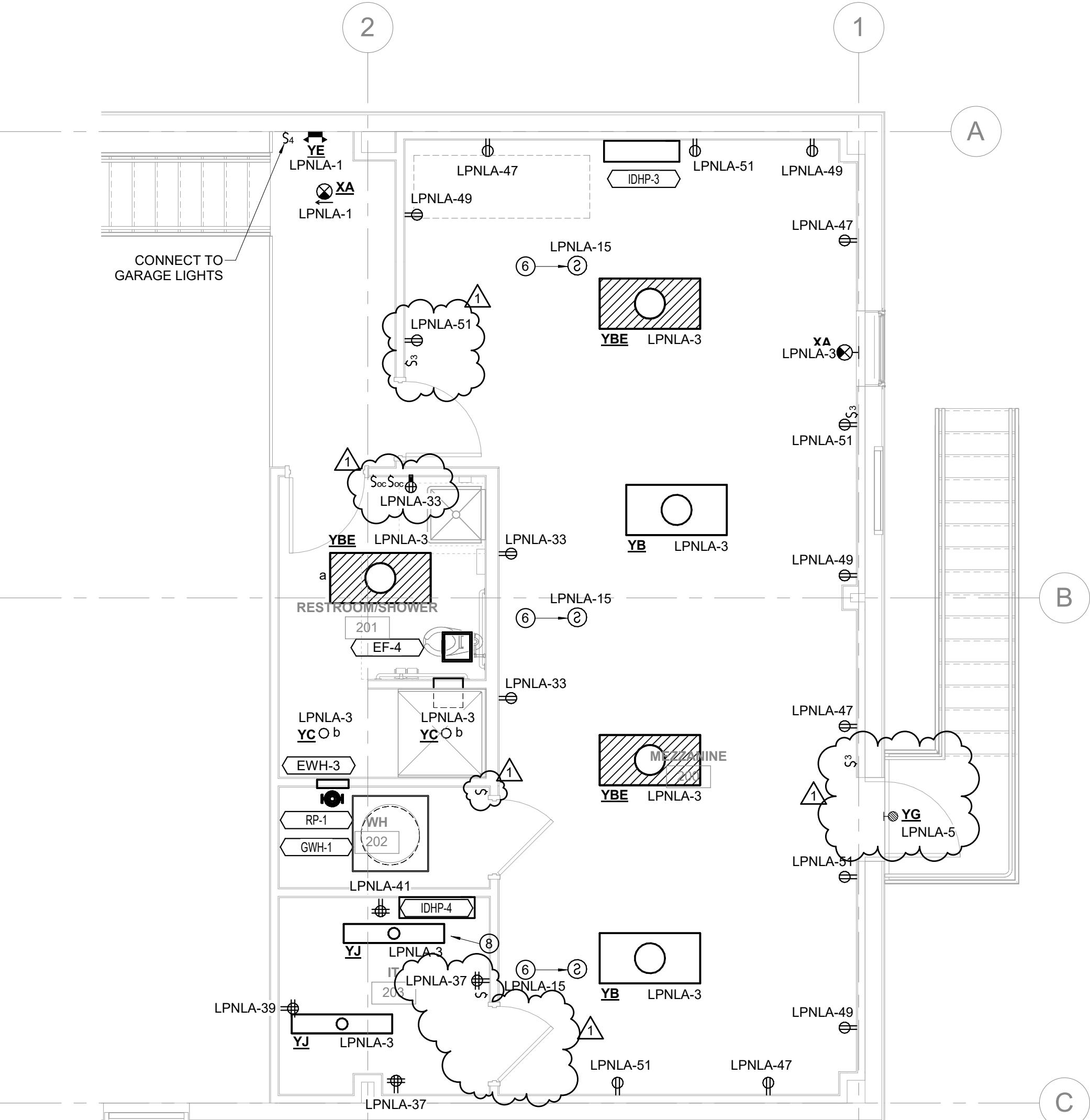
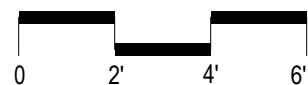
THESE PLANS AND SPECIFICATIONS
ARE ISSUED TO BE PART OF THE
JOB OF THE CONTRACTOR. THE CONTRACTOR
SHALL BE RESPONSIBLE FOR THE
CORRECTNESS OF THE INFORMATION
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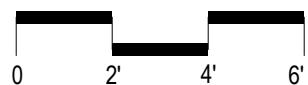
POWER RISER DIAGRAM - BUILD-OUT
NOT TO SCALE



1 ELECTRICAL FIRST FLOOR - BUILD-OUT



2 ELECTRICAL MEZZANINE PLAN



THESE PLANS AND SPECIFICATIONS ARE PROVIDED TO YOU FOR THE JOB ONLY. THEY ARE NOT TO BE USED FOR ANY OTHER PURPOSE. ANY OCCUPANCY OR PRODUCTION OF ANYTHING IS AT YOUR OWN RISK. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PURPOSE. ANY OCCUPANCY OR PRODUCTION OF ANYTHING IS AT YOUR OWN RISK.

SHEET KEYED NOTES

- PANEL AIC RATING IS BASED ON ASSUMPTION OF 75KVA UTILITY TRANSFORMER. CONTACT ELECTRICAL ENGINEER IF AVAILABLE FAULT CURRENT EXCEEDS 22,000 AMPS.
- CONFIRM BREAKER SIZE WITH EQUIPMENT MANUFACTURER AND ADJUST WIRING AS REQUIRED. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH MECHANICAL.
- COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.
- PROVIDE 60/2 NON FUSED DISCONNECT FOR AIR COMPRESSOR. PROVIDE 2#6, 1#10G, IN 3/4"C. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION WITH EQUIPMENT PROVIDER.
- PROVIDE LOCAL DISCONNECT AT FLOOR LEVEL. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND LOCATION WITH OWNER.
- PROVIDE MULTI-STATION 110 DBA DEVICE TO COMPLY WITH NFPA 72 SECTION 18.4.5 FOR SMOKE DETECTION WITHIN 16' OF HEAD OF FUTURE COTS. MAKE 120V CONNECTION AND MAKE CONTROL CONNECTIONS SO THAT IF ONE DEVICE DETECTS SMOKE, ALL DEVICES ALARM. PROVIDE BATTERY BACKUP TO MAINTAIN POWER FOR 24 HOURS WITH ALARM FOR 15 MINUTES AFTERWARDS AT FULL POWER.
- PROVIDE 400 AMP, 2-POLE, 3-WIRE, NEMA 3R, FUSIBLE, QUICK CONNECT DOUBLE THROW SAFETY SWITCH WITH INTEGRATED CAMLOCK RECEPTACLES. THE SAFETY SWITCH WILL CONNECT THE ELECTRICAL UTILITY TO THE BUILDING IN THE UPPER POSITION AND WILL ENERGIZE THE CAMLOCK RECEPTACLES IN THE LOWER POSITION. QUICK CONNECT DOUBLE THROW SAFETY SWITCH TO BE EATON CATALOG NUMBER DT225NNRKC OR APPROVED EQUAL. PROVIDE 400 AMP FUSES IN BOTH UPPER AND LOWER POSITION. PROVIDE BONDING JUMPER BETWEEN NEUTRAL AND GROUND BUS.
- COORDINATE LIGHT FIXTURES WITH TECHNOLOGY OVERHEAD RACKS.

GENERAL NOTES

- VISIT PROJECT SITE BEFORE SUBMISSION OF BID AND BECOME FAMILIAR WITH EXISTING CONDITIONS, LOCATIONS OF UTILITIES, AND EXTENT OF DEMOLITION REQUIRED.
- CONFIRM CAPACITY OF EXISTING TRANSFORMER AND COORDINATE UPGRADE WITH UTILITY IF NEEDED. PROVIDE TRENCHING, CONDUIT, METER BASE, CONCRETE PAD AND OTHER ITEMS AS REQUIRED.
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PROJECT NO. 27999-3605-04
PIN NO. 131119

REVISIONS

DESCRIPTION

REVISION 1

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

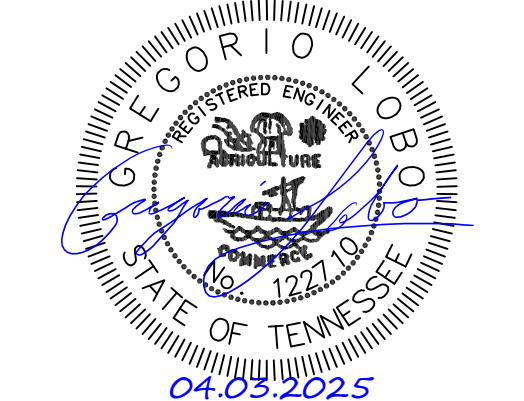
1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

DATE SEPTEMBER 29, 2023
PHASE CONSTRUCTION
PROJECT # 2023-11-09-02

Wold HFR DESIGN
214 Centerview Drive Suite 300
Brentwood, TN 37027
woldae.com phone: 615.370.8500
fax: 615.370.8530

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 4200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 22640620

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

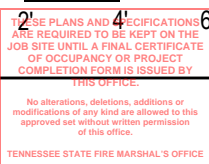
ELECTRICAL
BUILD-OUT &
MEZZANINE
E1.1

<div><div><div>Name: LPNLA</div><div>Location: SERVICE AREA 100</div><div>Supply From: UTILITY XFMR</div><div>Mounting: SURFACE</div><div>Enclosure: NEMA 1</div><div>Notes:</div></div><div><div>Volts: 120/240 Single</div><div>Phases: 1</div><div>Wires: 3</div></div><div><div>A.I.C. Rating: 22.000</div><div>Mains Type: MCB</div><div>Bus Rating: 400 A</div><div>MCB Rating: 400 A</div></div></div>											
CKT	Circuit Description	Notes	Trip	Poles	A (VA)	B (VA)	Poles	Trip	Notes	Circuit Description	CKT
1	Ltg		20	1	1027	1000		1	20	Motorized Door	2
3	Ltg		20	1		829	1000	1	20	Motorized Door	4
5	Exterior Ltg		20	1	288	1000		1	20	Motorized Door	6
7	Rec		20	1		720	1440	2	15	IDHP-1/ ODHP-1	8
9	Rec		20	1	900	1440		--	--	--	10
11	Welding Rec	2	50	2		4800	1080	2	15	IDHP-2/ ODHP-2	12
13	--	--	--	--	4800	1080		--	--	--	14
15	Smoke Detection System		20	1		180	1440	2	15	IDHP-3/ ODHP-3	16
17	SPARE		20	1	0	1440		--	--	--	18
19	Rec		20	1		900	1020	2	20	EF-1	20
21	Rec		20	1	900	1020		--	--	--	22
23	Rec		20	1		900	180	1	20	EF-2, 3 & 4	24
25	Kitchen GFCI Rec		20	1	540	1500		1	20	EW-H-1	26
27	Refrigerator Rec		20	1		900	1500	1	20	EW-H-2	28
29	Stove Rec	2	50	2	5050	1500		1	20	EW-H-3	30
31	--	--	--	--		5050	60	1	20	GW-H-1	32
33	Mezzanine Rec		20	1	540	60		1	20	RP-1	34
35	Ice Machine	1	20	1		180	396	1	15	UH-1	36
37	Rec - IT Room		20	1	720	396		1	15	UH-2	38
39	Rec - IT Room		20	1		360	3000	2	60	Air Compressor	40
41	Rec - IT Room		20	1	360	3000		--	--	--	42
43	IDHP-4/ODHP-4		15	2		1080	1200	1	20	1 Drinking Fountain Rec	44
45	--	--	--	--	1080	180		1	20	TTB	46
47	Mezzanine Rec		20	1		720	0	1	20	SPARE	48
49	Mezzanine Rec		20	1	720	0		1	20	SPARE	50
51	Mezzanine Rec		20	1		900	0	1	20	SPARE	52
53	SPARE		20	1	0	0		1	20	SPARE	54
55	SPARE		20	1		0	0	1	20	SPARE	56
57	SPARE		20	1	0	0		1	20	SPARE	58
59	SPARE		20	1		0	0	1	20	SPARE	60
Total Load:					30541 VA	29835 VA					
Total Amps:					255 A	249 A					
Load Classification			Connected Load		Demand Factor		Demand Load		Panel Totals		
Htg			5352 VA		100.00%		5352 VA				
Kitcheq			900 VA		100.00%		900 VA		Total Conn. Load: 60376 VA		
Ltg			2144 VA		125.00%		2680 VA		Total Demand: 56992 VA		
Pwr			9600 VA		100.00%		9600 VA		Total Conn. Current: 252 A		
Rec			20840 VA		73.99%		15420 VA		Total Demand Current: 237 A		
<div>Notes:</div> <div>1. PROVIDE GFCI BREAKER AS REQUIRED.</div> <div>2. PROVIDE 2#8, #10IG IN 1/2" C TO RECEPTACLE.</div>											

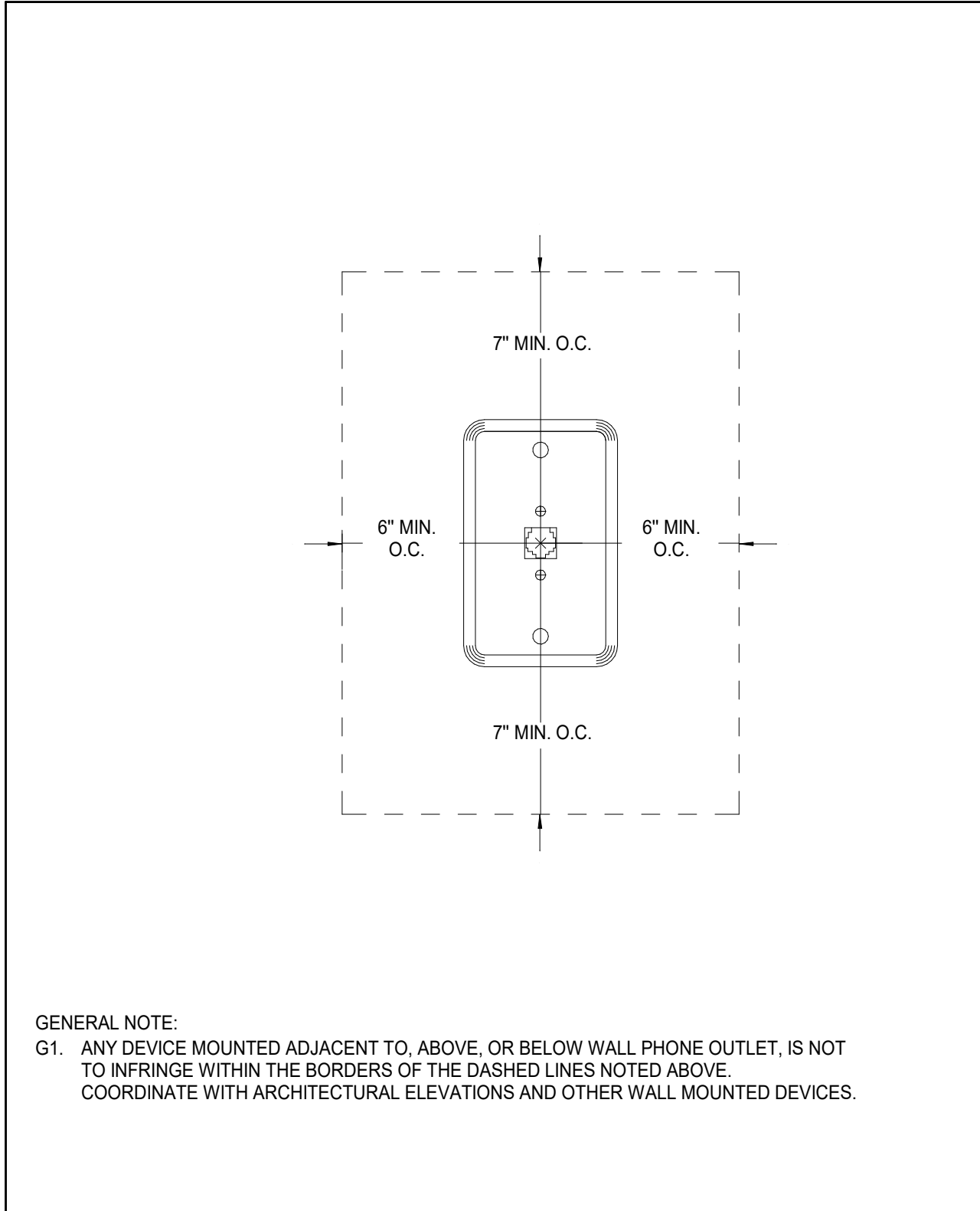
MECHANICAL EQUIPMENT CONNECTION SCHEDULE																	
GENERAL NOTES:										REMARKS:				ABBREVIATIONS:			
NONE.										NONE.				FDS = FUSED DISCONNECT SWITCH NFDS = NON-FUSED DISCONNECT SWITCH CMSD = COMBINATION MOTOR STARTER/DISCONNECT SWITCH SMT0 = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD VFD = VARIABLE FREQUENCY DRIVE INT = INTEGRAL DISCONNECT CP = CONTROL PANEL			
TAG	DESCRIPTION	LEVEL	VOLTAGE	PHASE	H.P.	KVA	AMPS	PANEL	CKT.	DISCONNECT DISC. TYPE	RATING	WIRE SIZE	CONDUIT SIZE	REMARKS			
EF-1	EXHAUST FAN	FIRST FLOOR	240 V	1	2	2.0	8.5 A	LPNLA	20,22	NFDS	30A/2P	2 #10, #10G	1/2"	--	<div>COORDINATE WITH MECHANICAL SUBMITTALS AND PROVIDE 20A/1P DISCONNECT FOR NEMA 5-20R RECEPTACLE AS REQUIRED.</div>		
EF-2	EXHAUST FAN	FIRST FLOOR	120 V	1		0.1	0.5 A	LPNLA	24	--		2 #12, #12G	1/2"	--			
EF-3	EXHAUST FAN	FIRST FLOOR	120 V	1		0.1	0.5 A	LPNLA	24	--		2 #12, #12G	1/2"	--			
EF-4	EXHAUST FAN	MEZZANINE	120 V	1	-	0.1	0.5 A	LPNLA	24	--		2 #12, #12G	1/2"	--			
EW-H-1	ELECTRIC WALL HEATER	FIRST FLOOR	120 V	1	-	1.5	12.5 A	LPNLA	26	INT	--	2 #12, #12G	1/2"	--	<div>COORDINATE WITH MECHANICAL SUBMITTALS AND PROVIDE 20A/1P DISCONNECT FOR NEMA 5-20R RECEPTACLE AS REQUIRED.</div>		
EW-H-2	ELECTRIC WALL HEATER	FIRST FLOOR	120 V	1	-	1.5	12.5 A	LPNLA	28	INT	--	2 #12, #12G	1/2"	--			
EW-H-3	ELECTRIC WALL HEATER	MEZZANINE	120 V	1	-	1.5	12.5 A	LPNLA	30	INT	--	2 #12, #12G	1/2"	--			
GW-H-1	GAS WATER HEATER	MEZZANINE	120 V	1	-	0.1	0.5 A	LPNLA	32	--		2 #12, #12G	1/2"	--			
IDHP-1	INDOOR HEAT PUMP	FIRST FLOOR	240 V	1	-	2.9	12 A			INT	--	2 #12, #12G	1/2"	--	<div>COORDINATE WITH PLUMBING SUBMITTALS AND PROVIDE 20A/1P DISCONNECT FOR NEMA 5-20R RECEPTACLE AS REQUIRED.</div>		
IDHP-2	INDOOR HEAT PUMP	FIRST FLOOR	240 V	1	-	2.2	9 A			INT	--	2 #12, #12G	1/2"	--			
IDHP-3	INDOOR HEAT PUMP	MEZZANINE	240 V	1	-	2.9	12 A			INT	--	2 #12, #12G	1/2"	--			
IDHP-4	INDOOR HEAT PUMP	MEZZANINE	240 V	1	-	2.2	9 A			INT	--	2 #12, #12G	1/2"	--			
ODHP-1	OUTDOOR HEAT PUMP	FIRST FLOOR	240 V	1	-	2.9	12 A	LPNLA	8,10	NFDS	30A/2P	2 #10, #10G	3/4"	--	<div>PROVIDE 30A/2P, NEMA 3R, DISCONNECT FOR THE UNIT</div>		
ODHP-2	OUTDOOR HEAT PUMP	FIRST FLOOR	240 V	1	-	2.2	9 A	LPNLA	12,14	NFDS	30A/2P	2 #10, #10G	3/4"	--			
ODHP-3	OUTDOOR HEAT PUMP	FIRST FLOOR	240 V	1	-	2.9	12 A	LPNLA	16,18	NFDS	30A/2P	2 #10, #10G	3/4"	--			
ODHP-4	OUTDOOR HEAT PUMP	FIRST FLOOR	240 V	1	-	2.2	9 A	LPNLA	43,45	NFDS	30A/2P	2 #10, #10G	3/4"	--			
RP-1	RECIRC. PUMP	MEZZANINE	120 V	1	1/25	0.1	0.5 A	LPNLA	34	--		2 #12, #12G	1/2"	--	<div>PROVIDE STARTER AND DISCONNECTS AS REQUIRED</div>		
UH-1	UNIT HEATER	FIRST FLOOR	120 V	1	-	0.4	3.3 A	LPNLA	36	INT	--	2 #12, #12G	1/2"	--			
UH-2	UNIT HEATER	FIRST FLOOR	120 V	1	-	0.4	3.3 A	LPNLA	38	INT	--	2 #12, #12G	1/2"	--			

LUMINAIRE SCHEDULE											
<div>GENERAL NOTES:</div> <div>1. REFER TO AND COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR FINAL FIXTURE LOCATIONS, HEIGHTS, CEILING TYPES, MOUNTINGS, FINISHES, ETC.</div> <div>2. WHERE SUSPENDED FIXTURES ARE REQUIRED, REFER TO REFLECTED CEILING PLANS AND ELEVATIONS FOR MOUNTING HEIGHT TO PROVIDE PROPER LENGTH OF FIXTURE SUPPORT CABLE. UTILIZE ADJUSTABLE CABLE GRIPPERS FOR FINAL SETPOINT. ONCE FIXTURES ARE LEVELLED, REMOVE EXCESS CABLING. PROVIDE MATCHING FEED CANOPY AT EACH SUPPORT LOCATION AS DIRECTED BY.</div> <div>3. WHERE FIXTURES ARE SHOWN WITH CHAIN HANGERS, PROVIDE LONGER CHAIN, IF NEEDED, TO MOUNT AROUND OBSTRUCTIONS (I.E. DUCTWORK, PIPING, STRUCTURE, ETC.) TO AVOID SHADOWING ON SPACE/EQUIPMENT BELOW.</div>											
TYPE	DESCRIPTION	MANUFACTURER/SERIES	QTY.	LAMPS	MIN. LUMENS	COLOR	INPUT WATTS	VOLTAGE	BALLAST/DRIVER	MOUNTING	REMARKS
XA	LED EDGE LIT SINGLE FACE EXIT SIGN	LITHONIA EDGR	--	LED	N/A	N/A	3.0	UNIV	LED DRIVER	SEMI-RECESSED	--
YA	LED STEM MOUNTED, INDUSTRIAL HIGHT BAY	RUGGED GRADE LIGHTING #RGL-TITAN3-150WRB	--	LED	21000	3500K	150.0	120V	LED DRIVER (1-10V DIMMING)	15 FEET ABOVE FINISHED FLOOR	--
YB	LED SURFACE MOUNTED WRAPAROUND	COLUMBIA #LAW4-35HL-EDU	--	LED	5627	3500K	51.0	120V	LED DRIVER (1-10V DIMMING)	--	90 MINUTE BATTERY BACKUP
YBE	EMERGENCY BACKUP, LED SURFACE MOUNTED WRAPAROUND	COLUMBIA #LAW4-35HL-EDU	--	LED	5627	3500K	51.0	120V	LED DRIVER (1-10V DIMMING)	--	
YC	LED DOWNLIGHT	LITHONIA # LDN4 35/10 L044R LSS MVOLT	--	LED	1045	3500K	11.0	120V	LED DRIVER	RECESSED	--
YD	EXTERIOR WALL PACK	HUBBELL #WG-H-133L-4K-U-M	--	LED	8989	SEE REMARKS	76.0	120V	LED DRIVER	SURFACE MOUNTED	4000K COLOR TEMP.
YE	LED EMERGENCY LIGHTING UNIT W/ 3.6V NICAD BATTERY	EXITRONIX #LED-90 SERIES	--	LED	N/A	N/A	3.0	120V	--	SURFACE MOUNTED	--
YH	EMERGENCY EGRESS LIGHT	LITHONIA #AFF PEL UVOLT LTP SDRT FCT	--	LED	635	SEE REMARKS	12.0	120V	--	SURFACE MOUNTED	4000K COLOR TEMP.
YI	LED WALL DIRECT	CURRENT#67L-W-D-4-4-DM-X-35K-D100-D01-1C-UNV	--	LED	4000	3500K	34.0	120V	LED DRIVER	WALL MOUNTED	FINISH/COLOR BY ARCH
YJ	LED WRAPAROUND	COLUMBIA #LAW4-40MW-EU	--	LED	3787	3500K	31.0	120/277V	LED DRIVER	--	--

ELECTRICAL SPECIFICATIONS																								
<p>SCOPE</p> <p>A. INCLUDES THE FURNISHING OF ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, ETC., REQUIRED FOR THE ELECTRICAL SYSTEMS AS SHOWN AND DESCRIBED IN THESE DRAWINGS.</p> <p>B. THE WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:</p> <p>1. BUILDING WIRE AND CABLE</p> <p>2. WIRING DEVICES</p> <p>3. ELECTRICAL BOXES AND FITTINGS</p> <p>4. CIRCUIT AND MOTOR DISCONNECTS</p> <p>5. SUPPORTING DEVICES</p> <p>6. SEISMIC RESTRAINTS</p> <p>7. ELECTRICAL IDENTIFICATION</p> <p>8. GROUNDING</p> <p>9. LIGHTING</p> <p>10. CONDUIT FOR AUXILIARY</p> <p>11. CIRCUITS FOR HVAC EQUIPMENT</p> <p>RELATED WORK</p> <p>A. THE FOLLOWING WORK RELATED TO THE ELECTRICAL WORK,</p> <p>B. HEATING, VENTILATING, AIR CONDITIONING AND PLUMBING EQUIPMENT, INCLUDING MOTORS, MOTOR STARTERS AND CONTROL EQUIPMENT WILL BE FURNISHED AND INSTALLED UNDER DIVISION 15.</p> <p>C. PAINTING, EXCEPT REPAIR OF FACTORY APPLIED FINISHES ON ELECTRICAL EQUIPMENT.</p> <p>CODES AND PERMITS</p> <p>A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA 70, 2012 INTERNATIONAL BUILDING CODE, 2012 INTERNATIONAL ENERGY CONSERVATION CODE AND THE LATEST EDITION OF ALL LOCAL OR STATE CODES, LAWS, AND ORDINANCES.</p> <p>TRADE NAMES AND EQUALS</p> <p>A. MANUFACTURER'S TRADE NAMES OR CATALOG NUMBERS USED IN THESE SPECIFICATIONS AND INDICATED ON THE DRAWINGS DENOTE TYPE, SIZE, QUALITY, AND DESIGN OF EQUIPMENT REQUIRED.</p> <p>B. WHERE EQUIPMENT IS SPECIFIED AS "EQUAL," OR "APPROVED EQUAL," IT SHALL MEAN EQUAL IN THE OPINION OF THE ENGINEER OF RECORD. THIS CONTRACTOR IS TO OFFER SUBSTITUTIONS FOR CONSIDERATION AS EQUAL AFTER THE CONTRACT IS SIGNED; HOWEVER, BUT SHALL BE PREPARED TO FURNISH SPECIFIED MATERIALS WHERE SUBSTITUTIONS ARE NOT APPROVED.</p> <p>MATERIAL AND EQUIPMENT</p> <p>A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE QUALITY SPECIFIED.</p> <p>B. MATERIAL OR EQUIPMENT THAT HAS BEEN STORED OUTDOORS UNPROTECTED FOR LONG PERIODS OF TIME OR OTHERWISE DAMAGED IS NOT ACCEPTABLE AS NEW MATERIAL.</p> <p>C. APPARATUS AND MATERIALS USED IN THIS WORK WHICH ARE SUBJECT TO APPROVAL OF UNDERWRITERS LABORATORIES (UL) SHALL BEAR THE UL LABEL OR BE UNDERWRITERS LISTED.</p> <p>DELIVERY, STORAGE, AND HANDLING OF MATERIAL AND EQUIPMENT</p> <p>A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PURCHASE, DELIVERY AND STORAGE OF ALL MATERIALS AND EQUIPMENT INDICATED TO BE SUPPLIED UNDER THIS SECTION OF THE SPECIFICATIONS, AND IT SHALL BE HIS RESPONSIBILITY TO SCHEDULE THE DELIVERY OF MATERIALS AND EQUIPMENT AT SUCH STAGES OF THE WORK AS WILL PERMIT UNINTERRUPTED CONSTRUCTION OF ALL PHASES OF THE WORK.</p> <p>B. WHERE OWNER FURNISHED EQUIPMENT IS TO BE TURNED OVER TO THIS CONTRACTOR FOR INSTALLATION, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO RECEIVE SUCH EQUIPMENT AND STORE IN A SAFE, DRY LOCATION.</p> <p>C. PERFORM ALL REQUIRED RIGGING, HOISTING, TRANSPORTING, ETC., OF ALL EQUIPMENT FURNISHED, AND FURNISH ANY ADDITIONAL STRUCTURAL MEMBERS, AS MAY BE REQUIRED, FOR THE PROPER SUPPORT OF ANY AND ALL EQUIPMENT FURNISHED HEREUNDER.</p> <p>ACCURACY OF DATA</p> <p>A. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC, AND EXCEPT WHERE DIMENSIONS ARE SHOWN, ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF OUTLETS, CONDUITS, SWITCHES, FIXTURES, ETC. ALL WORK SHALL BE INSTALLED AS NEARLY AS POSSIBLE IN THE LOCATIONS INDICATED, WITH ONLY SUCH MINOR ADJUSTMENTS AS WILL BE REQUIRED TO AVOID INTERFERENCES WITH STRUCTURE OR THE WORK OF OTHER TRADES.</p>			<p>B. THE DRAWINGS ARE NOT INTENDED TO SHOW ALL JUNCTION OR PULL BOXES, FITTINGS AND CONNECTIONS, AND DETAILS OF WORK TO BE DONE. THIS CONTRACTOR SHALL SUPPLY ALL NECESSARY BOXES, FITTINGS AND CONNECTIONS FOR COMPLETE INSTALLATION IN A SATISFACTORY MANNER.</p> <p>C. ANY OFFSETS IN CONDUIT REQUIRED OR NECESSARY TO AVOID INTERFERENCES WITH STRUCTURE, OR THE WORK OF OTHER TRADES, ETC., SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.</p> <p>COORDINATION</p> <p>A. COORDINATE WORK WITH THAT OF OTHER SUBCONTRACTORS ON THE JOB AND ALSO WITH THAT OF THE OWNER IN ORDER THAT THERE BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF THE WORK.</p> <p>MANUFACTURER'S RECOMMENDATIONS</p> <p>A. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER. A COPY OF THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS SHALL BE KEPT IN THE JOB SUPERINTENDENT'S OFFICE AND SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE AT ALL TIMES.</p> <p>TESTS</p> <p>A. TEST ALL ELECTRICAL WIRING FOR CONTINUITY, SHORTS, IMPROPER GROUNDS AND INSULATION RESISTANCE. MOTORS SHALL BE CHECKED FOR PROPER ROTATION AND BRANCH CIRCUIT AND OVERLOAD PROTECTION. PANELBOARDS SHALL BE CHECKED FOR BALANCED LOADING AND CORRECT PHASE ROTATION. DISCREPANCIES SHALL BE CORRECTED. THIS CONTRACTOR SHALL FURNISH TEST EQUIPMENT AND MATERIAL, AND SHALL BE RESPONSIBLE FOR REPLACEMENT OR REPAIR OF DAMAGE DUE TO TEST FAILURES.</p> <p>B. AFTER INSTALLATION IS COMPLETE, VOLTAGE MEASUREMENTS SHALL BE MADE AT EACH PANELBOARD TO VERIFY PROPER SYSTEM VOLTAGES. VOLTAGE SHALL BE MEASURED UNDER LOAD CONDITIONS WHERE POSSIBLE. VOLTAGE READINGS SHALL BE RECORDED.</p> <p>C. AFTER ALL TESTS HAVE BEEN COMPLETED, THIS CONTRACTOR SHALL CLEAN ALL LIGHT FIXTURES AND REPLACE ANY DEFECTIVE COMPONENTS. ALL EQUIPMENT AND CONDUIT SHALL BE CLEANED AND LEFT IN WORKING ORDER. ALL DEBRIS CREATED BY THE EXECUTION OF THE ELECTRICAL WORK SHALL BE REMOVED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO KEEP PANELS, ESPECIALLY CIRCUIT BREAKER HANDLES, CLEAN DURING CONSTRUCTION.</p> <p>BUILDING WIRE, CABLE AND CONNECTORS</p> <p>A. BUILDING WIRE AND CONNECTORS SHALL BE UL LISTED AND LABELED. COMPLY WITH NEMA, ICEA, ANSI AND ASTM STANDARDS PERTAINING TO MATERIALS. CONSTRUCTION AND TESTING OF BUILDING WIRE AND CABLE.</p> <p>B. EXCEPT AS OTHERWISE INDICATED, PROVIDE WIRE, CABLE AND CONNECTORS OF MANUFACTURER'S STANDARD MATERIALS, AS INDICATED BY PUBLISHED PRODUCT INFORMATION, DESIGNED AND CONSTRUCTED AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED FOR THE INSTALLATION.</p> <p>C. PROVIDE FACTORY FABRICATED 600 VOLT INSULATED BUILDING WIRE OF SIZES, RATINGS, MATERIALS, AND TYPES INDICATED BELOW:</p> <p>1. UL TYPE: THWN - WET OR DRY LOCATIONS</p> <p>2. UL TYPE: SA - FIXTURE WIRING ONLY</p> <p>3. MATERIAL: COPPER</p> <p>D. CONDUCTORS #10 AWG AND SMALLER: SOLID OR STRANDED CONDUCTORS#8 AWG AND LARGER: CONCENTRIC-LAY-STRANDED (STANDARD FLEXIBILITY)</p> <p>E. CONDUCTOR IDENTIFICATION: CONDUCTORS SHALL BE IDENTIFIED BY COLOR AS FOLLOWS:</p> <table><tr><td>120/240</td><td>VOLT SYSTEMS</td></tr><tr><td>A PHASE</td><td>BLACK</td></tr><tr><td>B PHASE</td><td>RED</td></tr><tr><td>NEUTRAL</td><td>WHITE</td></tr><tr><td>EQUIPMENT GROUND</td><td>GREEN</td></tr></table> <p>F. COLOR FOR CONDUCTORS #10 AWG AND SMALLER, COLOR SHALL BE PERMANENT FACTORY APPLIED. CONDUCTORS #8 AWG AND LARGER SHALL BE BLACK WITH 3M OR EQUAL, COLOR CODED PHASE TAPE APPLIED AT THE TERMINATIONS. WHERE TYPE MC CABLE IS USED, CIRCUIT NUMBERS SHALL BE APPLIED AT ALL WIRE SPLICES AND TERMINATIONS.</p>			120/240	VOLT SYSTEMS	A PHASE	BLACK	B PHASE	RED	NEUTRAL	WHITE	EQUIPMENT GROUND	GREEN	<p>G. WHEN WIRES ARE INSTALLED IN CONDUIT, SUFFICIENT SLACK SHALL BE ALLOWED TO PERMIT THE CONNECTION OF FIXTURES OR WIRING DEVICES WITHOUT ADDITIONAL SPLICE</p> <p>H. ALL CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET OR FROM PANEL TO OUTLET OR DEVICE. NO SPLICES WILL BE PERMITTED IN CONDUIT RUNS.</p> <p>1. UNLESS OTHERWISE NOTED ON THE PLANS, BRANCH CIRCUITS SHALL BE RUN HOME IN INDIVIDUAL CONDUITS, AS FOLLOWS:</p> <p>2. ALL POWER AND LIGHTING BRANCH CIRCUIT WIRING SHALL BE RUN HOME IN SEPARATE CONDUITS, AS INDICATED.</p> <p>3. FEEDERS SHALL BE RUN IN INDIVIDUAL CONDUITS FROM THE FEEDER SOURCE TO THE LOAD TERMINATIONS, AS INDICATED ON THE DRAWINGS. DO NOT COMBINE MULTIPLE FEEDERS IN A WIREWAY OR JUNCTION BOX.</p> <p>4. USE COMPRESSION TYPE WIRE CONNECTORS FOR STRANDED CONDUCTORS, FOR MOTOR CONNECTIONS, AND ALL OTHER CONNECTIONS OR SPLICES SUBJECT TO VIBRATION. WIRE NUTS MAY BE USED ELSEWHERE.</p> <p>5. BRANCH CIRCUITS FOR MOTORS, AS INDICATED ON THE DRAWINGS, ARE APPROXIMATE SIZE ONLY. THIS CONTRACTOR SHALL TO OBTAIN THE EXACT RATING OF THE MOTOR OPERATED EQUIPMENT FROM THE MECHANICAL CONTRACTOR, AND SHALL ADJUST THE SIZE OF THE PROTECTIVE DEVICE AND WIRE TO CONFORM TO THE REQUIREMENTS OF THE EQUIPMENT. ALL SUCH CHANGES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.</p> <p>6. TORQUE ALL BOLTED LUGS AND CONNECTORS TO TORQUE VALUES RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHERE TORQUE VALUES ARE NOT GIVEN, THE APPLICABLE TORQUE VALUES GIVEN BY UL STANDARDS #468A AND #468B, IF STUDS ARE COPPER OR STEEL, OR IF STEEL BOLTS ARE USED, USE A BELLEVILLE DISHED WASHER WITH A WIDE RISE, HEAVY FLAT WASHER. TIGHTEN THE CONNECTION UNTIL THE BELLEVILLE IS FLAT. DO NOT RE-TIGHTEN LATER.</p> <p>7. MINIMUM SIZE BRANCH CIRCUIT CONDUCTOR SHALL BE #12 AWG.</p> <p>8. PRIOR TO ENERGIZATION, TEST ALL LIGHTING, POWER, CONTROL, AND COMMUNICATIONS CIRCUITS FOR CONTINUITY, SHORTS, AND INSULATION RESISTANCE, GROUNDS, AND SHORT CIRCUITS.</p> <p>9. FURNISH AND SET UP ALL METERS, INSTRUMENTS, EQUIPMENT, AND LABOR REQUIRED TO MAKE TESTS, AS INDICATED.</p> <p>10. REPAIR AND/OR REPLACE AT CONTRACTOR'S EXPENSE, ANY EQUIPMENT DAMAGED IN THE PROCESS OF CONDUCTING THE TESTS.</p> <p>11. TEST RESULTS SHALL SHOW VALUES NO SMALLER THAN THOSE RECOMMENDED BY THE MANUFACTURER.</p> <p>12. PERFORM CONTINUITY TESTS ON ALL POWER AND CONTROL CIRCUITS, INCLUDING SPARE CONDUCTORS. CHECK PHASE IDENTIFICATION ON POWER CABLES.</p> <p>BOXES AND FITTINGS</p> <p>A. COMPLY WITH NEC AS APPLICABLE TO CONSTRUCTION AND INSTALLATION OF ELECTRICAL WIRING BOXES AND FITTINGS.</p> <p>B. PROVIDE ELECTRICAL BOXES AND FITTINGS WHICH HAVE BEEN UL LISTED AND LABELED.</p> <p>C. PROVIDE CAST METAL WEATHERPROOF OUTLETS FOR LOCATIONS EXPOSED TO WEATHER OR MOISTURE.</p> <p>D. EXCEPT WHERE INDICATED OTHERWISE ON THE DRAWINGS, OUTLET BOXES SHALL BE SO LOCATED AS TO ALLOW THE ASSOCIATED DEVICE OR FIXTURE TO BE MOUNTED AT LOCATIONS AS INDICATED ON THE DRAWINGS.</p> <p>E. PROVIDE PULL BOXES AND JUNCTION BOXES, AS INDICATED ON THE PLANS, OR AS REQUIRED. BOXES SHALL BE SIZED AS INDICATED ON THE PLANS AND WHERE NOT INDICATED, THEY SHALL BE SIZED IN ACCORDANCE WITH ARTICLE 370 OF THE NATIONAL ELECTRICAL CODE.</p> <p>F. PROVIDE COVERPLATES FOR ALL OUTLET BOXES EXCEPT COMMUNICATIONS OUTLETS.</p> <p>G. IN ALL CASES, WHERE TWO OR MORE DEVICES ARE INSTALLED IN GANG BOXES, GANG PLATES WITH SUITABLE OPENINGS SHALL BE PROVIDED.</p>			<p>WIRING DEVICES</p> <p>A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE FOLLOWING PRODUCTS, OR AN APPROVED EQUAL:</p> <p>B. TOGGLE SWITCHES: 20 AMPERE, 120-277 VOLT, AC ONLY, QUIET TYPE, HUBBELL #1221 (SP), #1222 (DP), #1223 (3-WAY), #1224 (4-WAY).</p> <p>C. GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES: NEMA 5-15R, 15 AMPERE, 125 VOLT, 2-POLE, 3-WIRE DUPLEX, HUBBELL #GF5252, OR APPROVED EQUAL.</p> <p>D. PROVIDE COVERPLATES FOR ALL WIRING DEVICES.</p> <p>E. MULTIPLE OUTLETS SHALL BE PROVIDED WITH MULTIPLE GANG PLATES OF ONE-PIECE CONSTRUCTION.</p> <p>F. COVERPLATES FOR OUTDOOR GFI DUPLEX RECEPTACLES SHALL BE TAYMAC # 20310, OR APPROVED EQUAL FOR USE WITH TYPE "FS" BOXES. COVERPLATES SHALL BE GREEN AND HAVE AN EGRESS MARKING.</p> <p>G. COVERPLATES FOR ALL FLUSH MOUNTED DEVICES SHALL BE HIGH-IMPACT SMOOTH NYLON, WITH COLOR TO MATCH DEVICE.</p> <p>CIRCUIT AND MOTOR DISCONNECTS</p> <p>A. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR</p> <p>B. ALL DISCONNECTS SWITCHES SHALL BE UL LISTED 240 VOLT OR 600 VOLT RATING AS REQUIRED.</p> <p>C. FURNISH AND INSTALL DISCONNECT SWITCHES WHERE INDICATED ON THE DRAWINGS AND/OR WHERE REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE, AS INDICATED, OR REQUIRED, TO PROVIDE THE REQUIRED DISCONNECT MEANS AND/OR BRANCH CIRCUIT PROTECTION.</p> <p>D. DISCONNECT SWITCHES SHALL BE AS MANUFACTURED BY SQUARE D COMPANY, GE, OR COMPANY, SIEMENS, OR APPROVED EQUAL.</p> <p>SUPPORTING DEVICES</p> <p>A. PROVIDE SUPPORT FOR ALL ELECTRICAL WORK AS INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, OR AS REQUIRED BY CODE.</p> <p>B. COMPLY WITH NEC AS APPLICABLE TO CONSTRUCTION AND INSTALLATION OF ELECTRICAL SUPPORTING DEVICES.</p> <p>C. COMPLY WITH APPLICABLE REQUIREMENTS OF ANSINEMA STD. PUB. NO. FB 1, "FITTINGS AND SUPPORTS FOR CONDUIT AND CABLE ASSEMBLIES".</p> <p>D. DISCONNECT SWITCHES SHALL BE PROVIDED BY THE ELECTRICAL ASSOCIATION "STANDARD OF INSTALLATION" PERTAINING TO ANCHORS, FASTENERS, HANGERS, SUPPORTS AND EQUIPMENT MOUNTING.</p> <p>E. WHERE MANUFACTURED SUPPORTING DEVICES ARE PROVIDED, THEY SHALL COMPLY WITH MANUFACTURER'S STANDARD MATERIALS, DESIGN, AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED PRODUCT INFORMATION.</p> <p>F. FURNISH AND INSTALL ALL NECESSARY HANGERS, SUPPORTS, ETC., AS REQUIRED TO SUPPORT ELECTRICAL WORK. PROVIDE PULL BOXES, JUNCTION BOXES, CONNECTOR BOXES, LIGHTING FIXTURES, PANELBOARDS, PULL BOXES, CONDUIT, OUTLET BOXES, AND ALL OTHER ITEMS OF ELECTRICAL WORK INCLUDED IN THIS PROJECT.</p> <p>G. ALL HANGERS AND SUPPORTS SHALL BE FASTENED TO THE BUILDING STRUCTURE BY MEANS OF BOLTS, U-CHANNEL STRUT SYSTEM, ANCHORS AND RODS, OR OTHER APPROVED MEANS.</p> <p>H. PROVIDE FOR THE BUILDING TO BE SUPPORTED WITHIN 12 INCHES OF EVERY JUNCTION OR OUTLET BOX, AND AT INTERVALS NOT TO EXCEED 6'-0" IN ACCORDANCE WITH THE NEC.</p> <p>I. LIGHTING FIXTURES SHALL BE SECURELY SUPPORTED FROM THE BUILDING STRUCTURE, AS INDICATED ON THE DRAWINGS OR AS SPECIFIED HEREIN.</p> <p>ELECTRICAL IDENTIFICATION</p> <p>A. FURNISH AND INSTALL A CONDUCTOR IDENTIFICATION BAND ON EACH CONDUCTOR IN EACH BOX/ENCLOSURE/CABINET WHERE WIRES OF MORE THAN ONE CIRCUIT ARE PRESENT. CODED WHERE ANOTHER FORM OF IDENTIFICATION, SUCH AS COLOR CODED CONDUCTORS, IS PROVIDED, CONDUCTOR IDENTIFICATION BANDS SHALL BE T & B TYPE E-Z, OR APPROVED EQUAL.</p> <p>B. FURNISH AND INSTALL AN ENGRAVED PLASTIC LAMINATE IDENTIFICATION PLATE AT EACH PANELBOARD AND DISCONNECT SWITCH, SECURE WITH STAINLESS STEEL SCREWS. INCLUDE THE FOLLOWING INFORMATION:</p> <p>C. DISTINGUISH PANELBOARD AND DISCONNECT PANELS BY NAME IN 1/4" LETTERS, VOLTAGE AND PHASE IN 1/8" LETTERS (E.G., "PANEL A, 120/240V, 1-PHASE, 4 WIRE")</p> <p>D. EACH DISCONNECT SWITCH - LOAD SERVED, VOLTAGE AND CIRCUIT NUMBER IN 1/8" LETTERS (E.G., "ACU-1, 240V, A-6")</p>			<p>GROUNDING</p> <p>A. FURNISH AND INSTALL SYSTEM, ENCLOSURE, AND EQUIPMENT GROUNDING FOR ALL ELECTRIC WIRING FOR THE BUILDING IN FULL COMPLIANCE WITH THE REQUIREMENTS OF LOCAL CODES AND THE NEC. ALL GROUNDING CONDUCTORS SHALL BE COPPER.</p> <p>B. PROVIDE GROUNDING PRODUCTS THAT ARE UL LISTED AND LABELED AND COMPLY WITH ESTABLISHED INDUSTRY STANDARDS FOR APPLICATIONS INDICATED.</p> <p>C. A CONTINUOUS (GREEN) EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED WITH ALL FEEDERS AND BRANCH CIRCUITS. THIS GROUNDING CONDUCTOR SHALL BE INSULATED SAME AS REQUIRED FOR 600 VOLT PHASE CONDUCTORS AND SHALL BE GREEN IN COLOR, WHERE POSSIBLE. GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC AND SHALL TERMINATE BY MEANS OF COMPRESSION LUGS AT EACH GROUND BUS, PANELBOARD GROUNDING BAR, PULL BOXES, DISCONNECT SWITCHES, STARTERS, MOTORS, AND OTHER DEVICES.</p> <p>D. PROVIDE ALL GROUNDING REQUIRED FOR NEW RADIOGRAPHY SYSTEMS AS RECOMMENDED BY SYSTEMS MANUFACTURER.</p> <p>LIGHTING</p> <p>A. PROVIDE ONLY LED LIGHTING FIXTURES, EXIT SIGNS AND EMERGENCY LIGHTING UNITS WHICH ARE UL LISTED AND LABELED.</p> <p>B. CLEAN LIGHTING FIXTURES OF DIRT AND DEBRIS UPON COMPLETION OF THE INSTALLATION. PROTECT INSTALLED FIXTURES FROM DAMAGE DURING REMAINDER OF CONSTRUCTION PERIOD.</p> <p>WIRING FOR HVAC EQUIPMENT</p> <p>A. FURNISH AND INSTALL ALL LINE VOLTAGE POWER, INTERLOCK AND TEMPERATURE CONTROL WIRING FOR HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT. FURNISH AND INSTALL DISCONNECT SWITCHES AS INDICATED OR REQUIRED.</p> <p>B. CONNECTION TO HVAC EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION SHALL BE MADE WITH LIQUID-TIGHT FLEXIBLE CONDUIT.</p> <p>C. ALL WIRING INSTALLED OUTDOORS SHALL UTILIZE COMPRESSION TYPE EMT FITTINGS, AND WEATHERPROOF GASKETED CAST METAL BOXES.</p> <p>PANELBOARDS - GENERAL REQUIREMENTS</p> <p>A. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE INDICATED.</p> <p>B. MAINS: CONFIGURE TOP OR BOTTOM INCOMING FEED AS INDICATED OR AS REQUIRED FOR THE INSTALLATION.</p> <p>C. BRANCH OVERCURRENT PROTECTIVE DEVICES: REPLACEABLE CIRCUIT BREAKERS OR FUSES, AS SPECIFIED.</p> <p>D. BUSSING: SIZED IN ACCORDANCE WITH UL 67 TEMPERATURE RISE REQUIREMENTS.</p> <p>1. PROVIDE SOLIDLY BONDED EQUIPMENT GROUND BUS IN EACH PANELBOARD, WITH A SUITABLE LUG FOR EACH FEEDER AND BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.</p> <p>E. CONDUCTOR TERMINATIONS: SUITABLE FOR US WITH THE CONDUCTORS TO BE INSULATED.</p> <p>F. ENCLOSURES: COMPLY WITH NEMA 250, AND LIST AND LABEL AS COMPLYING WITH UL 50 AND UL50E</p> <p>1. ENVIRONMENT TYPE PER NEMA 250: UNLESS OTHERWISE INDICATED, AS SPECIFIED FOR THE FOLLOWING INSTALLATION LOCATIONS:</p> <p>a. INDOOR CLEAN, DRY LOCATIONS: TYPE 1</p> <p>b. OUTDOOR LOCATIONS: TYPE 3R</p> <p>2. BOXES: GALVANIZED STEEL UNLESS OTHERWISE INDICATED</p> <p>3. FRONTS:</p> <p>a. FRONTS FOR SURFACE-MOUNTED ENCLOSURES: SAME DIMENSIONS AS BOXES</p> <p>4. LOCKABLE DOORS: ALL LOCKS KEYS ALIKE UNLESS OTHERWISE INDICATED.</p> <p>G. GROUND FAULT PROTECTION: WHERE GROUND-FAULT PROTECTION IS REQUIRED, PROVIDE SYSTEM LISTED AND LABELED AS COMPLYING WITH UL 1053.</p>		
120/240	VOLT SYSTEMS																							
A PHASE	BLACK																							
B PHASE	RED																							
NEUTRAL	WHITE																							
EQUIPMENT GROUND	GREEN																							

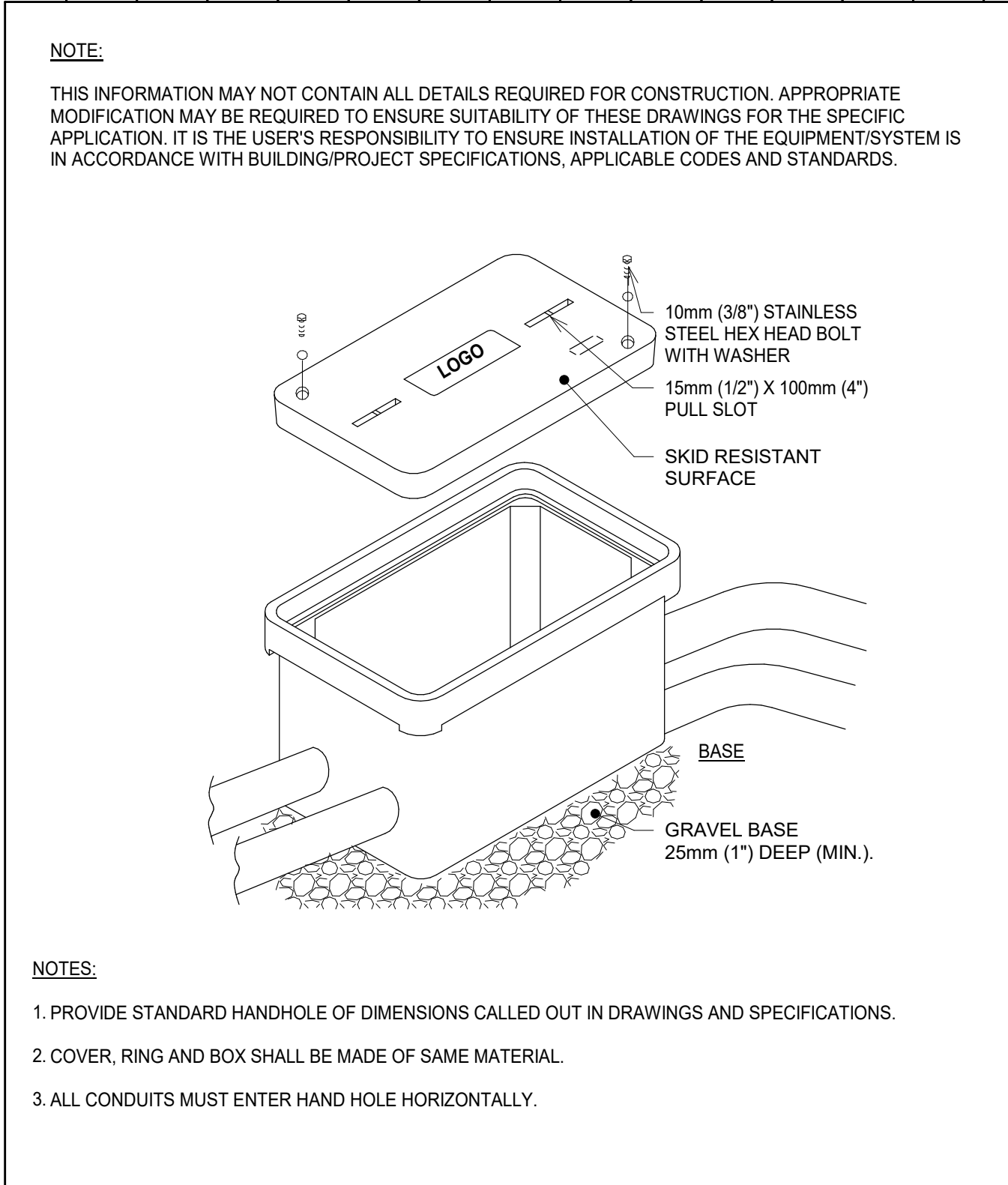


TECH. FIRST
FLR./MEZZ.
BUILD-OUT
T1.1



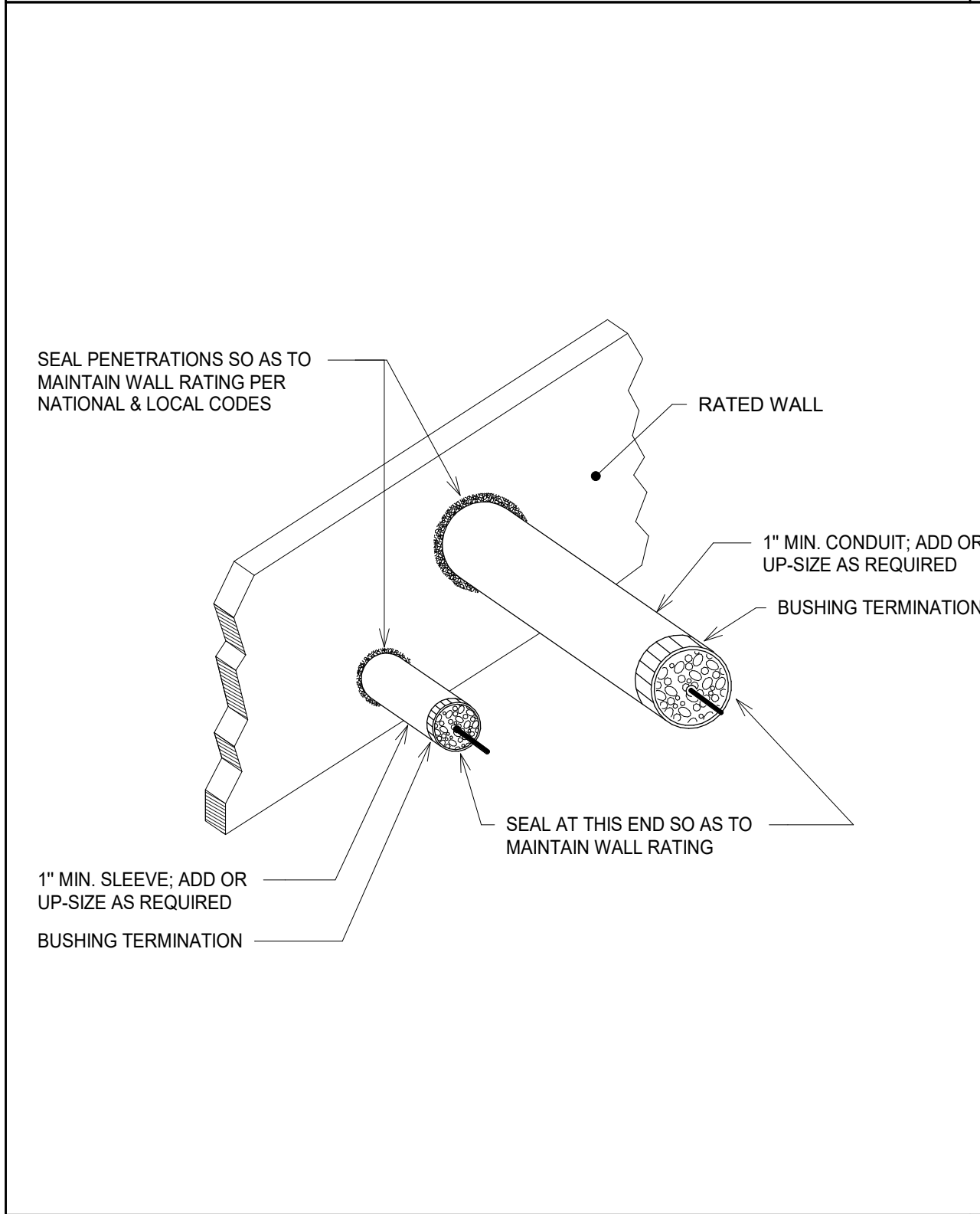
GENERAL NOTE:
G1. ANY DEVICE MOUNTED ADJACENT TO, ABOVE, OR BELOW WALL PHONE OUTLET, IS NOT TO INFRINGE WITHIN THE BORDERS OF THE DASHED LINES NOTED ABOVE. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND OTHER WALL MOUNTED DEVICES.

WALL PHONE CLEARANCE REQUIREMENTS 3

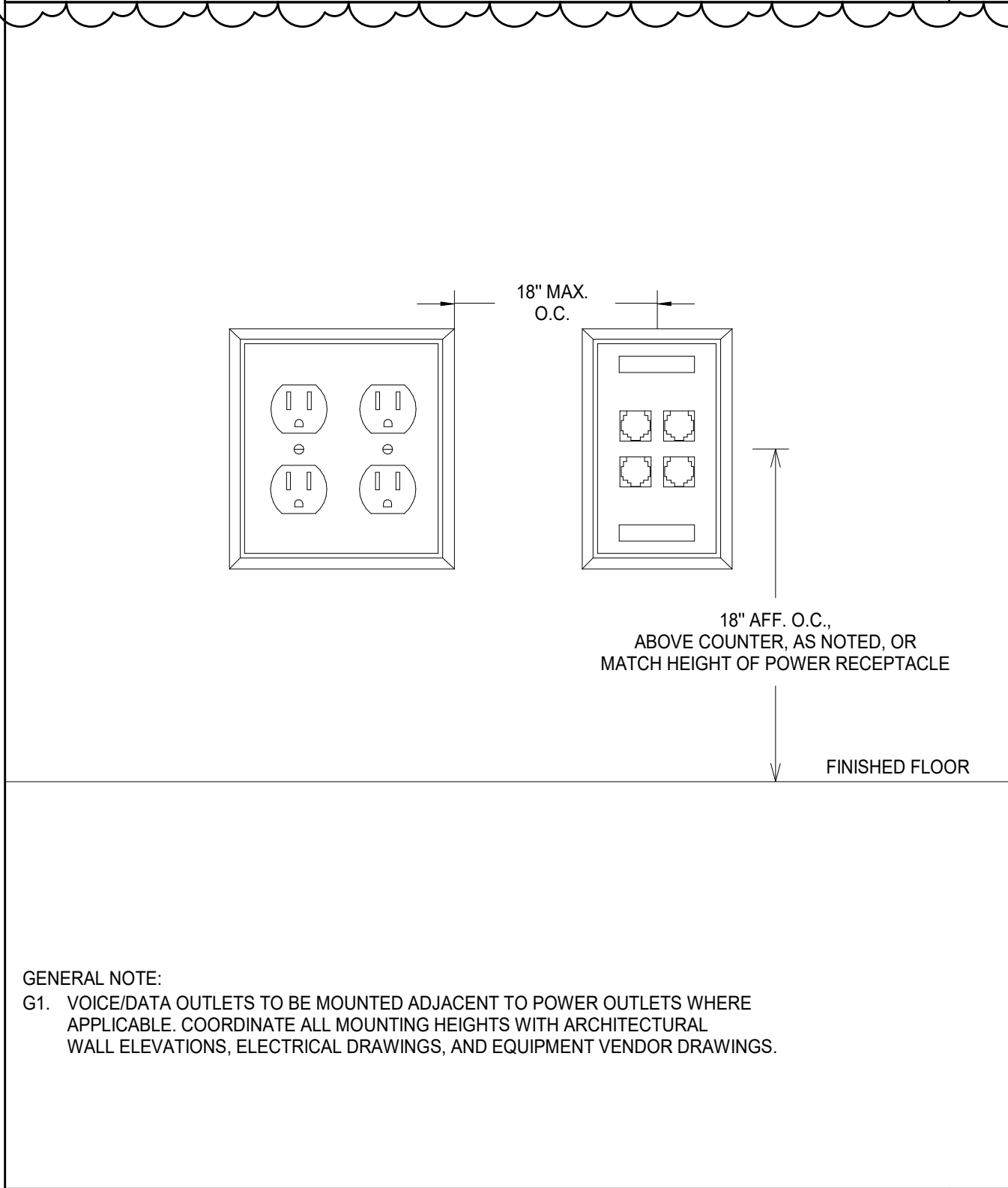


NOTES:
1. PROVIDE STANDARD HANDHOLE OF DIMENSIONS CALLED OUT IN DRAWINGS AND SPECIFICATIONS.
2. COVER, RING AND BOX SHALL BE MADE OF SAME MATERIAL.
3. ALL CONDUITS MUST ENTER HAND HOLE HORIZONTALLY.

TYPICAL HANDHOLE DETAIL 4



RATED WALL CONDUIT AND SLEEVE PENETRATIONS 1



GENERAL NOTE:
G1. VOICE/DATA OUTLETS TO BE MOUNTED ADJACENT TO POWER OUTLETS WHERE APPLICABLE. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECTURAL WALL ELEVATIONS, ELECTRICAL DRAWINGS, AND EQUIPMENT VENDOR DRAWINGS.

POWER OUTLET COORDINATION REQUIREMENTS 2

THESE PLANS AND SPECIFICATIONS ARE PROVIDED TO BE PART OF THE JOB OF THE USER. A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION IS REQUIRED.

NO WARRANTY, EXPRESS OR IMPLIED, IS MADE BY THE ENGINEER FOR THE ACCURACY OR COMPLETION OF THE WORK. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

TRANSMISSION STATE FIVE MINIMUM 3' OFFICE

PROJECT NO.		27999-3605-04	
PIN NO.		131119	
REVISIONS	DESCRIPTION	BY	DATE
	REVISION 1		03/05/25

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

PHASE
CONSTRUCTION

DATE
SEPTEMBER 29, 2023

PROJECT # 2023-11-09-02

Wold

HFR
DESIGN

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Brentwood, TN 37027
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SSR

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Seckman
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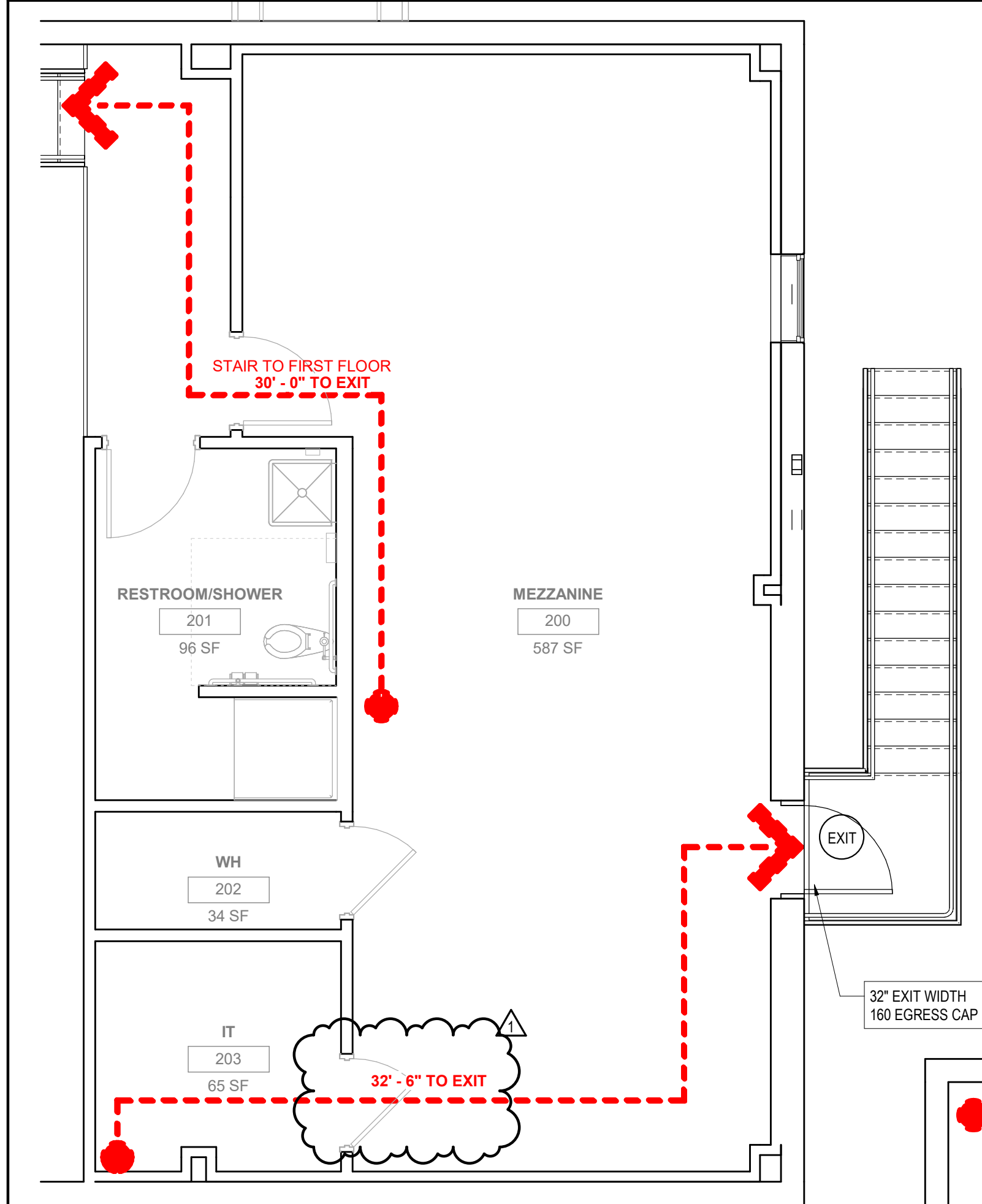
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SSR Project #: 22640590

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

TECHNOLOGY
DETAILS

T5.0



1 MEZZANINE LIFE SAFETY PLAN



OCCUPANT LOAD:			
MEZZANINE STORAGE	300 GSF / OCCUPANT	917 GSF	3
OFFICE AREAS	100 GSF / OCCUPANT	917 GSF	10
PARKING GARAGES	200 GSF / OCCUPANT	2,125 GSF	11
			24 TOTAL
(MOST RESTRICTIVE)			
BUSINESS	100 GSF / OCCUPANT	3,959 GSF	40 TOTAL

PARKING GARAGE 2,125 GSF 200/OCCUPANT - 200/2,125 = 11 OCCUPANTS	OFFICE 917 GSF 100/OCC - 100/917 = 10 OCCUPANTS
---	--

LIFE SAFETY LEGEND

1

2

5

3

15'-0" C=180

4

1

POINT OF DECISION

2

TRAVEL DISTANCE

3

POINT OF EGRESS

4

LINE OF TRAVEL

5

EGRESS CAPACITY (EXIT WIDTH/ 2)

EXIT

EXIT LOCATION

FEC

FIRE EXTINGUISHER CABINET

FE

FIRE EXTINGUISHER

F

FIRE ALARM PULL

V

FIRE ALARM VISUAL ALARM

F

FIRE ALARM AUDIO/VISUAL ALARM

ROOM TAG

ROOM NAME

ROOM #

AREA

OCCUPANT LOAD

FAA

FIRE ALARM ANNUNCIATOR PANEL

FACP

FIRE ALARM CONTROL PANEL

D

SMOKE DETECTOR

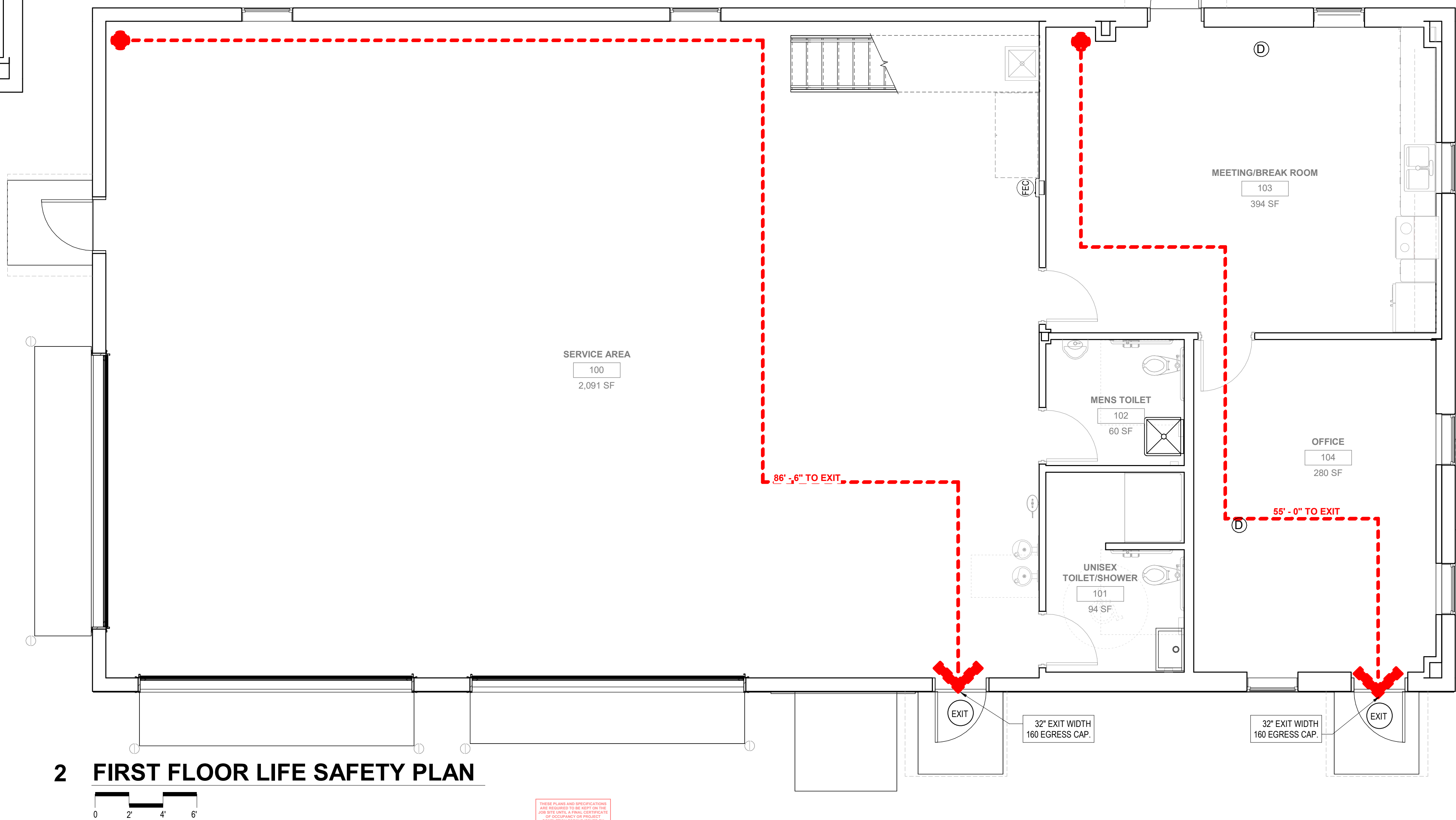
EXIT SIGN (SINGLE SIDED)

EXIT SIGN WITH DIRECTIONAL ARROW

2

FIRST FLOOR LIFE SAFETY PLAN

NOTE: THIS DRAWING MUST BE PRINTED IN COLOR TO REPRODUCE ALL FIRE RATED WALL SYMBOLS.



2 FIRST FLOOR LIFE SAFETY PLAN



GENERAL LIFE SAFETY NOTES

GENERAL

- DETAILS AND NOTES ABOUT RATED WALLS AND RATED PENETRATIONS ARE PROVIDED IN CASE CONTRACTOR COMES ACROSS A SITUATION WHERE THEY ARE NEEDED. SOME OF THE RATED WALL AND PENETRATION NOTES MAY NOT APPLY TO THIS PROJECT. CONTACT THE ARCHITECT IF QUESTIONS ARISE.
- THE CONTRACTOR SHALL AT ALL TIMES ENDEAVOR TO CONSTRUCT THE FACILITY IN STRICTEST ACCORDANCE TO SOUND PRACTICES OF FIRE RESISTIVE CONSTRUCTION. DEVIATIONS FROM MFG RECOMMENDATIONS, INDEPENDENT FIRE TESTS, OR UL ASSEMBLY REQUIREMENTS SHALL BE...

ALL WORK

- FIRE AND SMOKE PARTITION / BARRIER IDENTIFICATION: NONE REQUIRED IN PROJECT
- ALL G.W.B. SHALL BE 5/8" TYPE 'X' U.N.O. STAGGER JOINTS ON OPPOSITE SIDES OF PARTITIONS AS...
 - VERTICAL JOINTS OFFSET 16" HORIZONTALLY
 - HORIZONTAL JOINTS OFFSET 24" VERTICALLY. HORIZONTAL JOINTS SHALL NOT OCCUR BELOW THE TOP OF THE BOARD.USE TYPE S OR S12 FASTENERS INSTALLED IN ACCORDANCE WITH APPLICABLE FIRE TEST, BUT NO LESS THAN AS FOLLOWS:
 - ALL EDGES OF BOARD SHALL BE SCREWED NOT MORE THAN 8" O.C. TO SOLID FRAMING.
 - SCREWS WITHIN THE FIELD OF THE BOARD SHALL NOT EXCEED 12" O.C. FASTENED TO SOLID... AT DOUBLE LAYER G.W.B APPLICATIONS, SECURE SECOND LAYER TO FIRST WITH FASTENERS (DO NOT USE ADHESIVES). PLACE SECOND LAYER PERPENDICULAR TO FIRST LAYER. OFFSET JOINTS OF SECOND LAYER FROM JOINTS OF FIRST LAYER. FINISH JOINTS FULL HEIGHT OF WALL WITH TAPE & COMPOUND PER SPECIFICATIONS
- FIRESTOP ALL INTERRUPTIONS TO FIRE RATED ASSEMBLIES, MATERIALS, AND COMPONENTS WITH MATERIALS WHICH HAVE BEEN TESTED ACCORDING TO ASTM E814, UL 1479, OR UL 2079 TO PROVIDE A FIRE RATING AND SMOKE RATING EQUAL TO THAT OF CONSTRUCTION BEING PENETRATED.

GENERAL LIFE SAFETY NOTES...

- INSTALL BLOW-OUT PATCHES MADE OF LAYERS OF G.W.B. EQUAL TO THAT OF THE PARTITION CONSTRUCTION. CUT TO FIT TIGHT TO PENETRATIONS. IN INSTANCES WHERE THE ANNULAR OPENING EXCEED THAT ALLOWED BY THE UL ASSEMBLY. DO NOT APPLY JOINT COMPOUND OVER SCREWS AT PATCHES. DO NOT REMOVE EXCESS COMPOUND FROM EDGES OF PATCH AFTER PLACEMENT.
 - WHERE THE DIAMETER OF THE OPENING IS LESS THAN 3", THE BLOW-OUT PATCH SHALL EXTEND A MINIMUM OF 6" BEYOND THE OPENING IN ALL DIRECTIONS. THE PATCH SHALL BE FASTENED NOT LESS THAN 3" FROM THE EDGE OF THE PATCH WITH JOINT COMPOUND APPLIED TO THE BACKSIDE OF THE PATCH.
 - WHERE THE DIAMETER OF THE OPENING IS GREATER THAN 3", THE BLOW-OUT PATCH SHALL EXTEND A MINIMUM OF 6" ABOVE AND BELOW THE OPENING AND A MINIMUM OF 3" BEYOND THE STUDS ON BOTH SIDES OF THE OPENING. RUNNER CHANNELS SHALL BE SECURED TO THE STUDS ABOVE AND BELOW THE OPENING. THE PATCHES SHALL BE FASTENED TO THE STUDS & CHANNELS A MINIMUM OF 3" FROM THE EDGES OF THE PATCH WITH JOINT COMPOUND APPLIED TO THE BACKSIDE OF THE PATCH.
- INSTALL G.W.B. TIGHT TO ALL DUCTS AND DUCT INSULATION. USE METALLIC DUCT TAPE TO SEAL BETWEEN THE DUCT AND THE G.W.B.
- INSTALL METALLIC SLEEVES AROUND LOW VOLTAGE CABLES THAT PENETRATE THE WALL, AND SEAL AROUND THE SLEEVE AND INSIDE THE SLEEVE WITH AN APPROVED SEALANT.
- PROVIDE ENCLOSURE AND ACCESS PANEL AT EACH FIRE PROTECTION INSPECTION TEST VALVE. DO NOT LOCATE VALVES AND PIPES IN EXTERIOR WALLS. PROVIDE PAINTED STEEL ACCESS PANELS IN WALLS & CEILINGS EQUAL IN RATING TO THE CONSTRUCTION BEING INSTALLED IN.
- WHERE DEVICES ARE INDICATED IN RATED CONSTRUCTION, THE MAXIMUM ALLOWABLE AREA OF INDIVIDUAL U.L. LISTED BACKBOXES PERMITTED IN THE WALL IS 16 SQ. IN. WITH MAXIMUM AGGREGATE AREA OF 100 SQ. IN PER 100 SF OF WALL AREA. BACKBOXES ON OPPOSITE FACES OF RATED WALLS SHALL BE OFFSET A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES. WHEN PENETRATIONS EXCEED THE ALLOWABLE AREAS, DEVICES SHALL BE PROVIDED WITH A FIVE-SIDED G.W.B. ENCLOSURE OR UL LISTED INTUMESCENT FIRE PUTTY.
- WHERE DEVICES, CABINETS, OR ACCESSORIES GREATER THAN 16 SQ. IN. ARE INDICATED IN RATED CONSTRUCTION, PROVIDE A FIVE-SIDED G.W.B. ENCLOSURE CONSTRUCTED OF LAYERS OF G.W.B. EQUAL IN NUMBER TO THE CONSTRUCTION BEING PENETRATED.
- WHERE PARTITIONS MUST BE CONNECTED TO STRUCTURE FOR SUPPORT, INSTALL 20 GAUGE GALVANIZED METAL Z-CLIPS SPACED AS REQD, BUT NOT MORE THAN 2'-0" O.C. PRIOR TO APPLICATION...

GENERAL LIFE SAFETY NOTES...

- WHERE FIRE RATED WALL ASSEMBLIES OCCUR IN PROXIMITY TO STEEL BEAMS OR JOINTS WITH INADEQUATE DIMENSION TO INSTALL SCREWS, PROVIDE STUD FRAMING AROUND THE BEAM OR JOIST IN ACCORDANCE WITH U.L. DESIGN N-501 WITH LAYERS OF G.W.B. EQUAL IN NUMBER TO THE WALL...
- DOORS, WINDOWS, AND OTHER OPENINGS SHALL BE RATED EQUAL TO THAT OF THE CONSTRUCTION BEING PENETRATED, PROVIDE POSITIVE LATCHING AT RATED DOOR ASSEMBLIES. GLAZING SHALL BE FIRE RATED EQUAL TO THE WALL CONSTRUCTION AND INSTALLED IN AN EQUALLY RATED FRAMING SYSTEM, TESTED AS AN ASSEMBLY. WIRE GLASS IS NOT PERMITTED.
- FIRE EXTINGUISHER LOCATIONS: PROVIDE AS SHOWN ON PLANS AND AS INDICATED, WHICHEVER IS MORE RESTRICTIVE. CABINETS SHALL BE FULLY RECESSED (U.N.O.):
 - PROVIDE MULTI-PURPOSE, DRY CHEMICAL, ABC TYPE FIRE EXTINGUISHERS WITH UL RATING OF 4A:60B:C THROUGHOUT THE ENTIRE BUILDING. LOCATE SO THAT A MAXIMUM OF 75 FEET OF TRAVEL FROM ANY SPACE WILL BE PROVIDED.
 - PROVIDE DRY CHEMICAL, ABC TYPE FIRE EXTINGUISHERS WITH UL RATING OF 4A:60B:C IN ALL MECHANICAL SPACES.
 - PROVIDE CLEAN AGENT TYPE FIRE EXTINGUISHERS WITH UL RATING OF 1A:10B:C IN EACH DATA CENTER, MRI ROOM, AND MRI CONTROL ROOM. LOCATE SO THAT A MAXIMUM OF 75 FEET OF TRAVEL FROM ANY SPACE WILL BE PROVIDED.
 - PROVIDE WET-CHEMICAL TYPE, CLASS K WALL-HUNG FIRE EXTINGUISHERS THROUGHOUT KITCHENS. LOCATE SO THAT A MINIMUM OF 10 FEET AND A MAXIMUM OF 20 FEET OF TRAVEL FROM ANY PIECE OF COOKING EQUIPMENT BELOW HOOD WILL BE PROVIDED.
- REFER TO THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATED TO LIFE SAFETY CONSTRUCTION AND APPROVED UL ASSEMBLIES.

EXIT CAPACITY

PER PLAN REVIEW DATA:
EGRESS WIDTH 2' WIDTH PER OCCUPANT
TOTAL OCCUPANTS 13

13 OCCUPANTS x 2' = 26' OF REQUIRED EXIT WIDTH

ACTUAL EXIT CAPACITY:
3 @ 32' = 96'

WALL LEGEND

NOTE: REF. SHEET 11 OF 27 FOR WALL TYPE DETAILS

NON-RATED PARTITION
PRIORITY 1

PROJECT NO. 27999-3605-04

PIN NO. 131119

BY DATE 09/09/2025

AT

REVISIONS

DESCRIPTION

REVISION 1

TDOT GIBSON COUNTY
MAINTENANCE BUILDING

1248 B MANUFACTURERS ROW,
TRENTON, TN 38382

DATE SEPTEMBER 29, 2023

PHASE CONSTRUCTION

PROJECT # 2023-11-09-02

Wold

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Brentwood, TN 37027

woldae.com phone: 615.370.8500
fax: 615.370.8530

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SEALED BY

MARK ANTHONY
REGISTERED ARCHITECT
AGGREGATE
31-11-2025
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

LIFE SAFETY
PLANS

A 09.01

THESE PLANS AND SPECIFICATIONS
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