

South Tippah School District Tippah Career & Technology Center Addition

Ripley, Mississippi
PM Project Number 2024520
A.R.C. PROJECT NUMBER:

ARC-MS-22325

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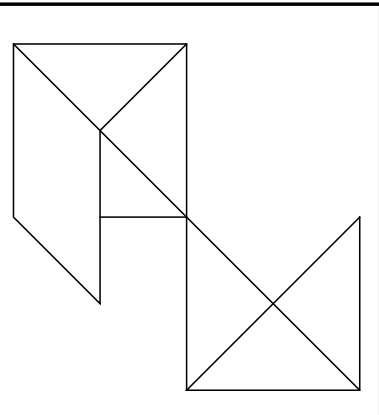
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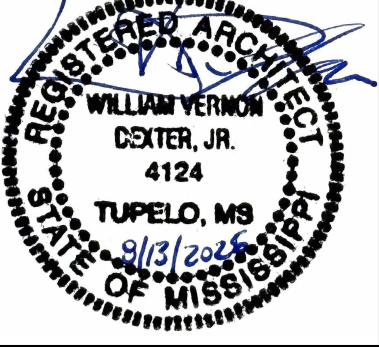


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South Tippah School District
Tippah Career & Technology Center Addition

Ripley, Mississippi

Mark	CD								
Date	08/13/2026								
Description	CONSTRUCTION DOCUMENTS								



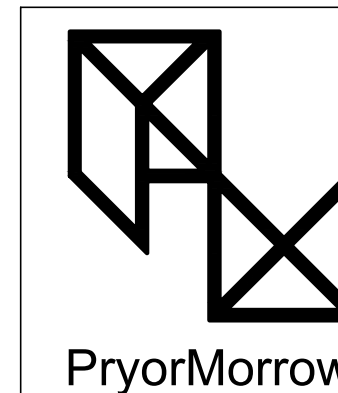
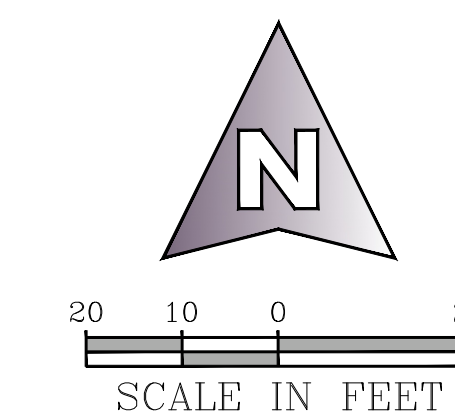
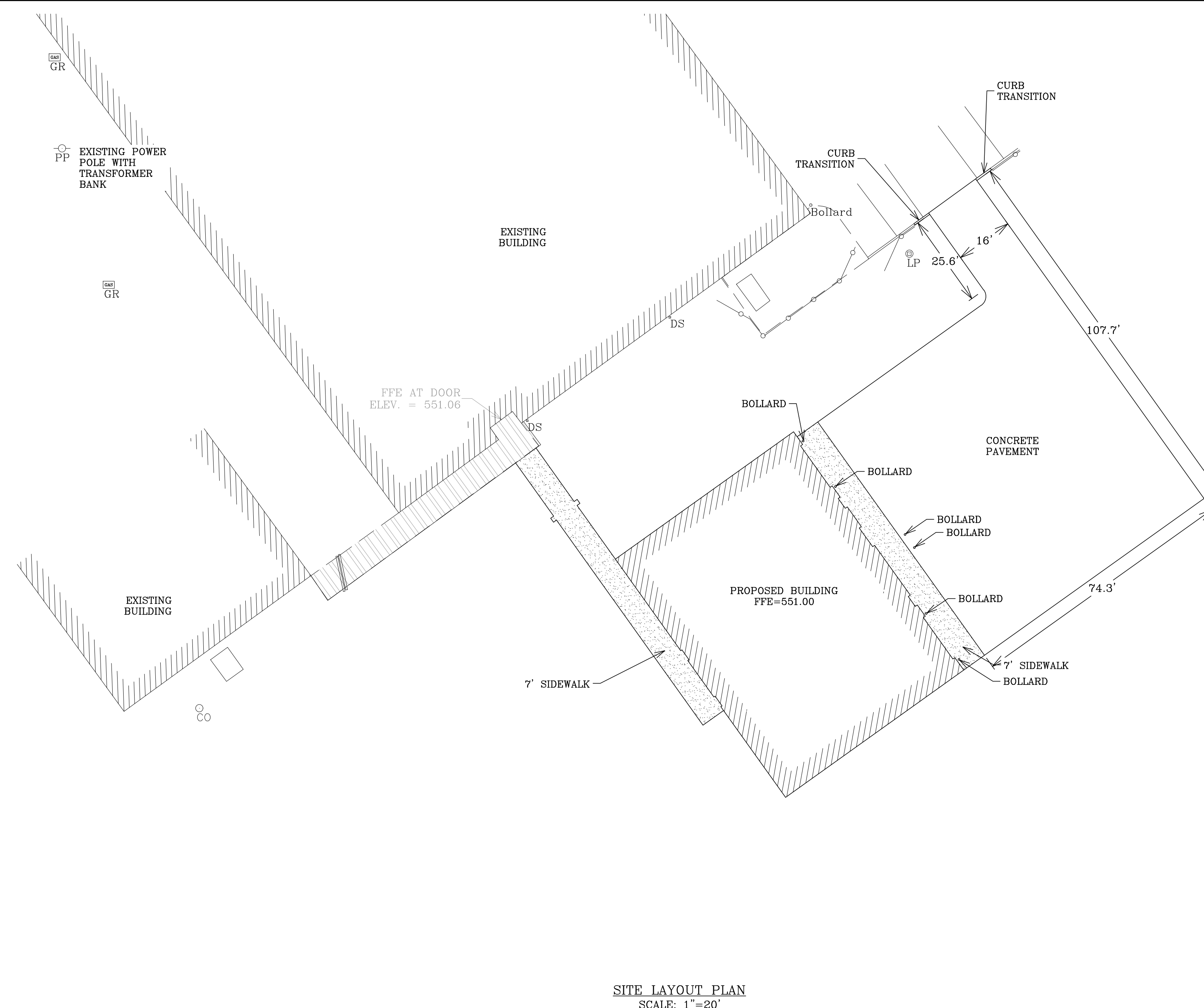
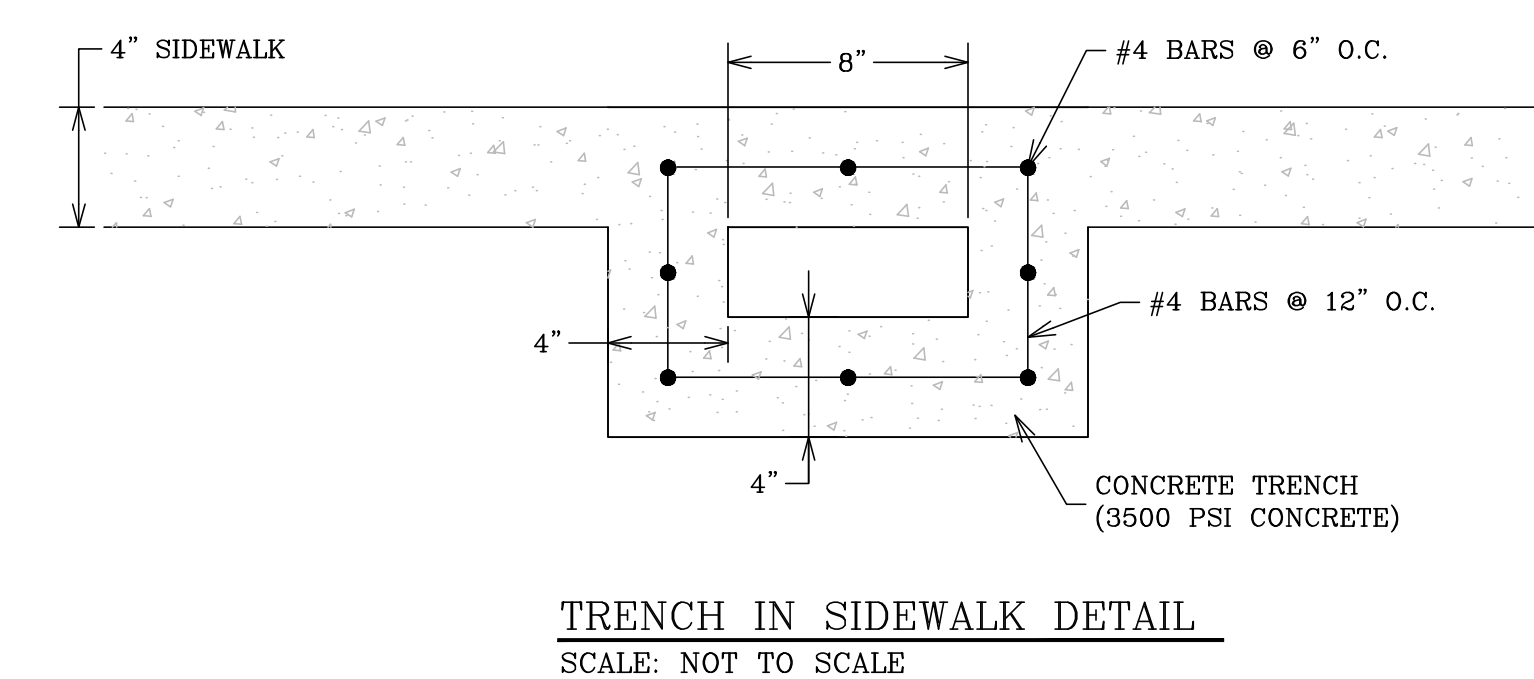
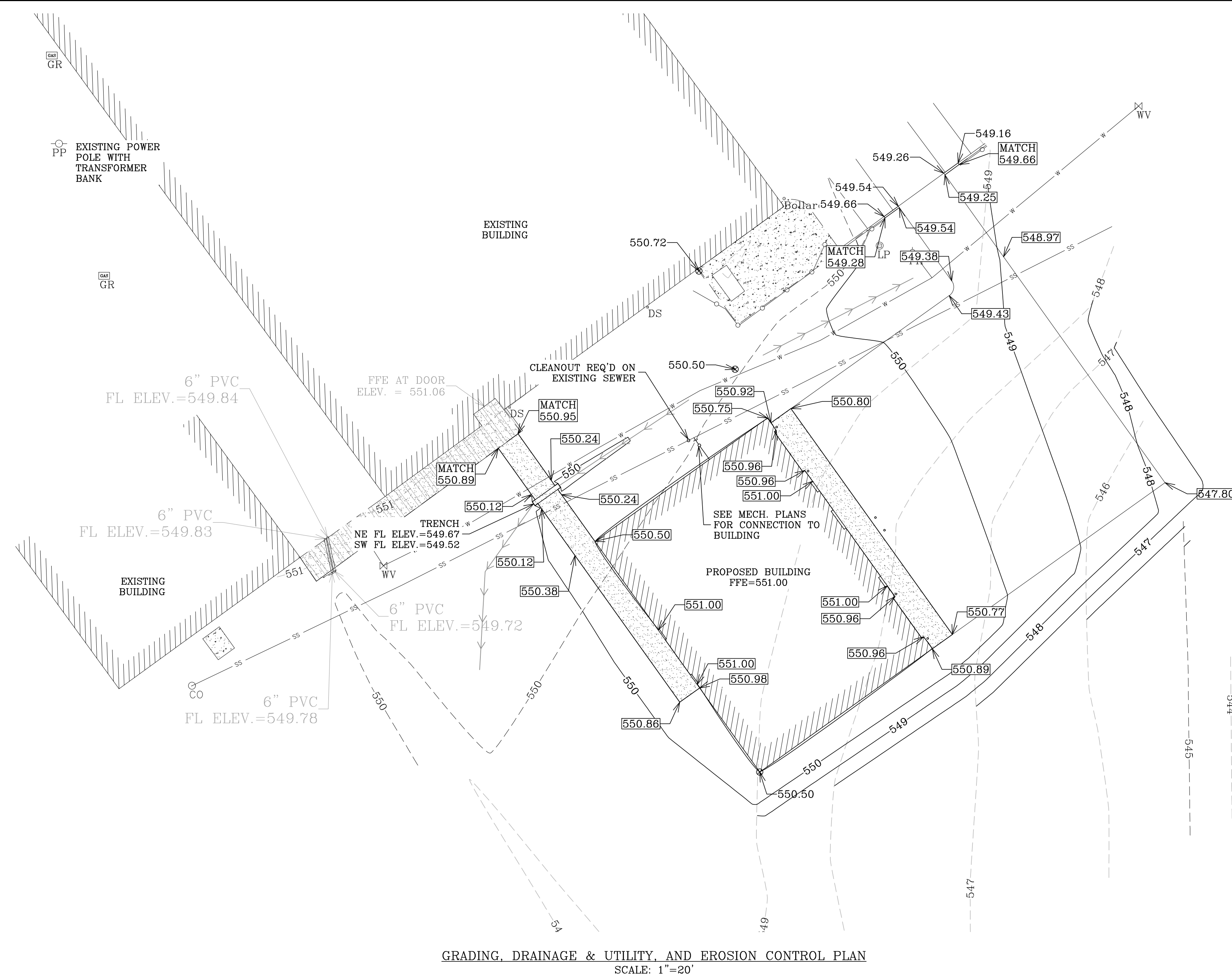
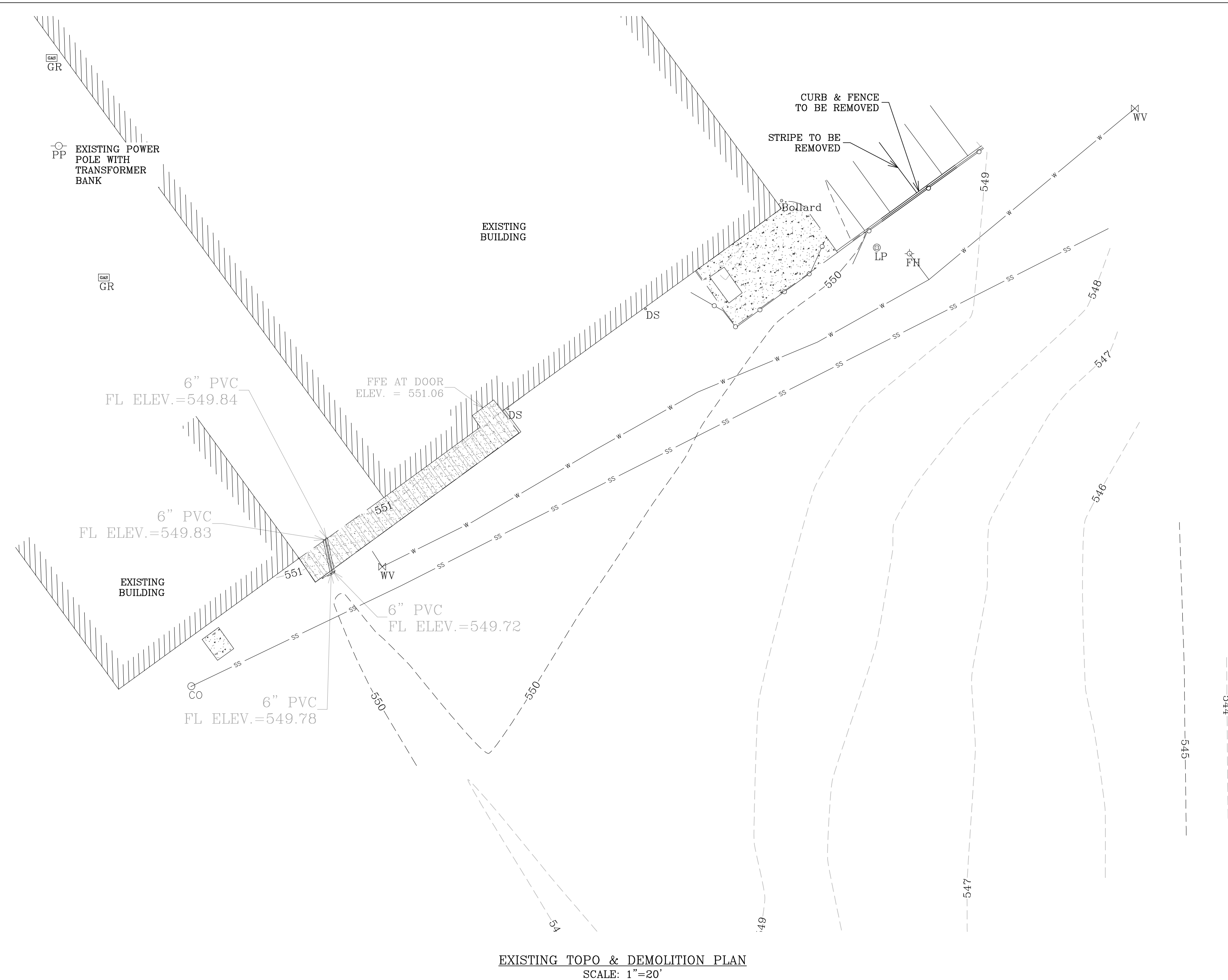
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COVER SHEET

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Tippah Career & Technology Center Addition
South Tippah School District

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PLAN SHEET

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STRUCTURAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.
2. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE THE FIELD VERIFICATION OF ALL EXISTING SITE CONDITIONS SUCH AS EXISTING FLOOR ELEVATIONS, EXISTING FOOTING ELEVATIONS, EXISTING UTILITIES, ETC. WHETHER NOTED OR NOT IN THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES, OR UNKNOWN CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
4. REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP DRAWINGS.
5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING ARE IN PLACE.
7. IF SLAB-ON-GRADE CONTROL JOINT LOCATIONS ARE NOT SHOWN ON PLANS, PROVIDE SAWN CONTROL JOINTS AT 15'-0" ON CENTER MAXIMUM SPACING IN A PATTERN THAT WILL REDUCE SLAB-ON-GRADE CRACKS UNLESS NOTED OTHERWISE ON DRAWINGS. COORDINATE LOCATIONS WITH ARCHITECT AND ENGINEER. RAISED SLAB ON METAL DECK SHALL NOT HAVE CONTROL JOINTS.
8. ACI, AISC, AITC, AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.

SITE CONSTRUCTION NOTES

SPREAD FOOTINGS

1. ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND SOILS ENGINEER'S RECOMMENDATIONS.
2. BOTTOM OF FOOTING ELEVATIONS (BF) SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR CONSTRUCTION. THE SOILS ENGINEER OR THEIR REPRESENTATIVE SHALL BE ENGAGED TO INSPECT ALL FOOTING EXCAVATIONS TO VERIFY THAT THE REQUIRED ALLOWABLE BEARING CAPACITY IS ATTAINABLE. BOTTOM OF FOOTING ELEVATIONS SHALL BE ADJUSTED PER THE ON-SITE RECOMMENDATIONS OF THE SOILS ENGINEER OR THEIR REPRESENTATIVE.
3. ALL SPREAD FOOTING EXCAVATIONS SHALL BE FOUNDED IN PROPERLY COMPACTED SELECT FILL OR IN THE NATURAL SOILS WITH AN ALLOWABLE NET BEARING CAPACITY OF AT LEAST 3,000 PSF AND 3,600 PSF FOR CONTINUOUS AND SPREAD FOOTINGS RESPECTIVELY. (REF: GEOTECHNICAL REPORT, PROJECT NO. 7875 DATED JULY 2026 BY PRITCHARD ENGINEERING.)
4. MAINTAIN FINISHED GRADE (AND/OR BOTTOM OF FOOTING ELEVATIONS) TO PROVIDE AT LEAST 1'-4" COVER ABOVE THE BOTTOM OF ALL EXTERIOR FOOTINGS.

CONCRETE NOTES

CONCRETE REINFORCEMENT

1. CONCRETE REINFORCEMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. ALL WELDABLE REINFORCING STEEL SHALL BE ASTM A706, GRADE 60.
3. PROVIDE THE FOLLOWING PROTECTIVE COVERING FOR ALL REINFORCING BARS UNLESS DETAILED OR NOTED OTHERWISE:
- | | |
|----------------------------------|----------|
| SLAB-ON-GRADE BARS (BOTTOM) | 3" CLEAR |
| BELOW GRADE (CAST AGAINST EARTH) | 3" CLEAR |
| BELOW GRADE (FORM EDGE) | 2" CLEAR |
4. DO NOT CUT TIES OR CONTINUOUS BARS TO PROVIDE CLEARANCE FOR EMBEDDED ITEMS OR OTHER OBSTRUCTIONS. INDIVIDUAL BARS AND TIES MAY BE MOVED VERTICALLY UP TO 1" IF AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT.
5. IF DOWELS OR VERTICAL REINFORCING ARE CUT OR SEVERELY BENT, CONTRACTOR MAY BE REQUIRED TO REMOVE THE CONCRETE BACK TO THE PREVIOUS POUR JOINT AND REPLACE THE DAMAGED BARS AND CONCRETE AT THE CONTRACTOR'S EXPENSE.
6. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO FABRICATION.
7. REINFORCING BARS MARKED AS CONTINUOUS SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICES ONLY.

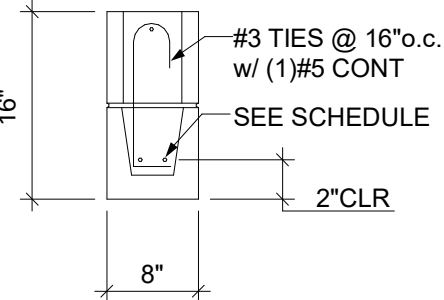
SIZE	3000 PSI CLASS B		4000 PSI CLASS B	
	TOP	OTHER	TOP	OTHER
#3	2'-4"	1'-10"	2'-0"	1'-7"
#4	3'-1"	2'-5"	2'-8"	2'-1"
#5	3'-11"	3'-0"	3'-4"	2'-7"
#6	4'-8"	3'-7"	4'-0"	3'-1"

8. ALL TENSION LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.
9. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP REINFORCEMENT 8" ON SIDES AND ENDS. MAINTAIN WIRE 1 TO 2 INCHES BELOW TOP SURFACE OF SLAB-ON-GRADE. UNLESS NOTED OTHERWISE, WELDED WIRE REINFORCEMENT MUST BE PLACED ON CHAIRS OR BOLSTERS AS REQUIRED TO MAINTAIN POSITION IN THE SLAB.
10. ALL REINFORCEMENT SHALL BE PLACED ON CHAIRS, BOLSTERS, AND/OR CONCRETE MASONRY UNITS AS REQUIRED TO MAINTAIN POSITION. NO CLAY MASONRY UNITS WILL BE ACCEPTED FOR THIS APPLICATION.
11. ONCE SHOP DRAWINGS HAVE BEEN REVIEWED, DO NOT ADD REINFORCING OR INFORMATION TO PREVIOUSLY SUBMITTED SHEETS FOR SUBSEQUENT SUBMITTALS UNLESS SHOP DRAWINGS ARE BEING RESUBMITTED AFTER BEING RETURNED "NOT REVIEWED".
12. WHERE ANCHOR RODS ARE CAST INTO CONCRETE, PROVIDE SUPPLEMENTAL REINFORCING EACH WAY, TIED NEAR THE TOP AND BOTTOM OF ALL ANCHOR RODS TO THE ADJACENT REBAR TO SECURE RODS DURING CONCRETE PLACEMENT (MINIMUM SIZE #4).
13. IF IT IS NECESSARY FOR PLUMBING TO PASS THROUGH FOOTINGS, PLACE IN PIPE PENETRATION SLEEVE. DO NOT PLACE PLUMBING PARALLEL TO AND INSIDE OF FOOTING.
14. IF IT IS NECESSARY FOR PLUMBING TO PASS THROUGH GRADE BEAMS HORIZONTALLY, LOCATE IN MIDDLE 1/3 OF BEAM AND PLACE IN PIPE PENETRATION SLEEVE. DO NOT PENETRATE BEAM VERTICALLY.

LINTEL SCHEDULE

WALL TYPE	UP TO 4'-0" OPENING	4'-1" TO 6'-4" OPENING	6'-5" TO 8'-4" OPENING	8'-5" TO 9'-4" OPENING
4" VENEER	L3-1/2x3-1/2x1/4	L5x3-1/2x5/16 (LLV)	L6x3-1/2x5/16 (LLV)	L7x4x3/8(LLV)
8" BLOCK	8"x8" LINTEL BLK w/ (2)#5	8"x16" LINTEL BLK w/ (2)#5 (NOTE #6)	8"x16" LINTEL BLK w/ (2)#6 (NOTE #6)	8"x16" LINTEL BLK w/ (2)#6 (NOTE #6)

1. LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE
2. 8" BEARING @ EA END, MINIMUM
3. USE 3,000PSI CONCRETE IN LINTEL BLOCKS
4. FILL CELLS BELOW LINTEL BEARING w/ CONCRETE FULL HEIGHT. PROVIDE (1)#4 VERTICAL BAR IN EA CELL
5. FOR OPENINGS LARGER THAN SHOWN ON LINTEL SCHEDULE ABOVE, PROVIDE 60LBS/FT STRUCTURAL STEEL. VERIFY EXACT SIZE w/ STRUCTURAL ENGINEER.
6. AT 16" HIGH BOND BEAMS USE THE FOLLOWING ADDITIONAL BARS



CAST-IN-PLACE CONCRETE

1. CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DESIGN DATA TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. CONCRETE SHALL HAVE AT LEAST A MINIMUM OF 3500 PSI COMPRESSIVE STRENGTHS AT 28 DAYS.
3. MIX DESIGN SHALL INCLUDE AT LEAST THE FOLLOWING AMOUNTS OF PORTLAND CEMENT MEETING ASTM C150 OR D595 PER CUBIC YARD OF CONCRETE.
- | 28 DAY COMPRESSIVE STRENGTH | NON-AIR ENTRAINED | | AIR ENTRAINED | | SLUMP |
|-----------------------------|--|-------------------------------|--|-------------------------------|-------|
| | MIN. CEMENT CONTENT (LBS/YD ³) | MAXIMUM PERMISSIBLE W/C RATIO | MIN. CEMENT CONTENT (LBS/YD ³) | MAXIMUM PERMISSIBLE W/C RATIO | |
| 3500 PSI | 517 | 0.51 | 517 | 0.48 | 3" |
4. PROPORTIONS OF CONCRETE MIX DESIGNS SHALL BE DETERMINED BY THE PROCEDURES ESTABLISHED IN SECTION 5.3 OF ACI 318-99.
5. MIX DESIGN MAY INCLUDE TYPE C FLYASH AS A REPLACEMENT FOR PORTLAND CEMENT UP TO A MAXIMUM OF 10% OF THE TOTAL CEMENTIOUS MATERIAL. DO NOT USE A FLYASH CONTAINING CONCRETE MIX WHEN THE TEMPERATURE DURING PLACEMENT OR CURING IS PROJECTED TO FALL BELOW 60 DEGREES FAHRENHEIT.
6. MIX DESIGN MAY INCLUDE WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494, TYPE A, TO PROVIDE WORKABILITY AND SPECIFIED SLUMP WITHOUT EXCEEDING SPECIFIED WATER/CEMENT RATIOS.
7. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 5.5% AIR ENTRAINMENT (±1.5%). DO NOT EXCEED 3% AIR CONTENT IN CONCRETE RECEIVING A STEEL TROWEL FINISH.

MASONRY NOTES

1. ALL CONCRETE MASONRY UNITS (CMU) SHALL COMPLY WITH ASTM C90, GRADE N, TYPE I, STANDARD WEIGHT UNITS SHALL BE USED BELOW FINISHED FLOOR OR BELOW FINISHED GRADE (OR BELOW FINISHED FLOOR FOR STEM WALLS WITH SLAB ABOVE) AND LIGHTWEIGHT UNITS SHALL BE USED ABOVE GRADE. SIZES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS.
2. TYPE M MORTAR SHALL BE USED BELOW GRADE AND TYPE S MORTAR SHALL BE USED ABOVE GRADE WITH AN ALLOWABLE COMPRESSIVE STRENGTH OF AT LEAST 2800 PSI FOR TYPE M AND 1800 PSI FOR TYPE S. MIX MORTAR WITH TYPE I PORTLAND CEMENT (TYPE III MAY BE USED FOR COLD WEATHER CONSTRUCTION), HYDRATED LIME MEETING ASTM C207 AND AGGREGATE MEETING ASTM C144.
3. FILL ALL BOND BEAMS, ALL CMU CELLS WITH VERTICAL REINFORCING OR EXPANSION BOLTS, AND ALL CELLS BELOW GRADE WITH 3000 PSI GROUT MEETING THE FOLLOWING REQUIREMENTS:
- A. USE A MINIMUM OF 5.5 BAGS OF PORTLAND CEMENT PER CUBIC YARD.
- B. MAXIMUM WATER/CEMENT RATIO BY WEIGHT SHALL BE 0.54.
- C. WATER-REDUCING ADMIXTURE MEETING ASTM C494 SHALL BE USED TO PROVIDE SUFFICIENT FLOWABILITY TO READILY FILL CELLS WITH A REASONABLE AMOUNT OF RODDING. ADDITIONAL WATER WILL NOT BE ALLOWED AFTER INITIAL MIXING.
- D. AGGREGATE SHALL BE WELL GRADED WITH A MAXIMUM SIZE OF 3/8".
- E. ALTERNATE MIX DESIGNS WILL BE CONSIDERED IF SUBMITTED TO THE ARCHITECT FOR APPROVAL AFTER CONTRACT IS AWARDED. ALTERNATE DESIGNS MUST SHOW SUFFICIENT FLOWABILITY CHARACTERISTICS AND A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI.
4. MAXIMUM HEIGHT OF ALL GROUT FILL SHALL NOT EXCEED 4'-0" UNLESS A CLEANOUT AND INSPECTION HOLE IS PROVIDED AT THE BOTTOM OF THE POUR.
5. ALL CMU SHALL BE REINFORCED WITH #5 VERTICALS AND DOWELS AT 4'-0" ON CENTER UNLESS SPECIFICALLY NOTED OTHERWISE OR NOTED AS UNREINFORCED MASONRY ON THE PLANS. WHERE SPLICES ARE REQUIRED, USE A LAP LENGTH OF AT LEAST 28 INCHES.
6. ALL VERTICAL CORNERS, VERTICAL END CELLS, AND ONE CELL EACH SIDE OF ALL OPENINGS SHALL BE GROUTED AND REINFORCED WITH (1)#5 UNLESS NOTED OTHERWISE.
7. HORIZONTAL BOND BEAMS WITH (2)#5 CONTINUOUS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF ALL OPENINGS, AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS, AT THE TOP OF ALL PARAPETS OR WALLS, AND AS SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS. BOND BEAMS ABOVE AND BELOW OPENINGS SHALL EXTEND AT LEAST 2'-0" BEYOND THE OPENING UNLESS NOTED OTHERWISE.
8. WHERE VERTICAL REINFORCING AND HORIZONTAL REINFORCING INTERSECT, ALL REINFORCING SHALL RUN CONTINUOUS.
9. HORIZONTAL REINFORCING SHALL BE CONTINUOUS AT CORNERS WITH 90° BENDS OR CORNER BARS WITH EACH LEG EQUAL TO THE REQUIRED LAP LENGTH. (SEE TYPICAL CORNER BAR DETAIL.)
10. BOND BEAMS WITH (2)#4 CONTINUOUS HORIZONTAL BARS SHALL BE PLACED AT A MAXIMUM SPACING OF 4'-0" ON CENTER VERTICALLY TO PROVIDE THE HORIZONTAL REINFORCING REQUIRED BY THE BUILDING CODE.

METAL DECKING

1. METAL DECKING SUPPLIER SHALL SUBMIT SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. STORM SHELTER ROOF DECKING SHALL BE VERSA-DEK 2.0 S ES (18 GAUGE) COMPOSITE DECK ATTACHED TO THE STRUCTURE WITH 5/8" DIAMETER RUDDLE WELDS IN A 2x4 PATTERN AND (4)#10 TEK SCREW SIDELAP FASTENERS BETWEEN SUPPORTS. SEE PLAN FOR SLAB DEPTH AND REINFORCEMENT.

PRE-ENGINEERED METAL BUILDING

1. METAL BUILDING MANUFACTURER SHALL PROVIDE CALCULATIONS AND SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. METAL BUILDING SHOP DRAWINGS WILL NOT BE REVIEWED IF THE LAYOUT DOES NOT FOLLOW THE LAYOUT PROPOSED IN THE CONTRACT DRAWINGS AND IF ANY DEVIATIONS FROM THE PROPOSED LAYOUT ARE NOT CLEARLY MARKED ON THE SHOP DRAWINGS OR APPROVED IN WRITING PRIOR TO SUBMITTAL.
3. METAL BUILDING FRAMING LAYOUT AND MEMBERS SHOWN ARE SUGGESTED ONLY. MANUFACTURER IS RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH OWNER AND PROVIDING A COMPLETE STRUCTURAL FRAMING SYSTEM DESIGNED BY THE MANUFACTURER. METAL BUILDING MANUFACTURER SHALL COORDINATE ALL DIMENSIONS, ELEVATIONS, BRACING, AND SIZES AND SHAPES OF MEMBERS WITH OWNER PRIOR TO FABRICATION AND CONSTRUCTION. ALL MEMBERS, CONNECTIONS, AND DECKING NOT SPECIFICALLY SIZED ON DRAWINGS SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER.
4. METAL BUILDING VERTICAL BRACING SHALL CONSIST OF PORTAL FRAMES AT THE LOCATIONS SHOWN ON THE PLANS. THE METAL BUILDING MANUFACTURER SHALL COORDINATE THE LOCATION OF ALL BRACES TO MINIMIZE INTERFERENCE WITH ARCHITECTURAL FEATURES. ROD OR CABLE BRACES MAY NOT BE SUBSTITUTED WHERE PORTAL FRAMES ARE SHOWN. WHERE X-BRACES ARE USED, THE METAL BUILDING MANUFACTURER SHALL CLEARLY IDENTIFY TO THE ARCHITECT ALL INTERFERENCES WITH ARCHITECTURAL FEATURES. WHERE ARCHITECTURAL FEATURES (COLUMN SURROUNDS, CEILINGS, FURR DOWNS, ETC.) ARE PROVIDED TO COVER OR SURROUND THE METAL BUILDING COMPONENTS (COLUMNS, FRAMES, ETC.), THE METAL BUILDING COMPONENTS SHALL BE NOTED TO STAY WITHIN THE LIMITS OF THE ARCHITECTURAL FEATURES UNLESS THE ARCHITECT IS NOTIFIED IN WRITING PRIOR TO SUBMISSION OF THE APPROVAL DRAWINGS AND APPROVAL IS GIVEN FOR AN EXCEPTION.
5. MAXIMUM PURLIN LIVE LOAD DEFLECTION SHALL NOT EXCEED SPAN/360 OR 1", WHICHEVER IS LESS.
6. FRAME LIVE LOAD DEFLECTION SHALL NOT EXCEED SPAN/360.
7. MAXIMUM GIRT LATERAL DEFLECTION FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED SPAN/240 FOR GIRTS PROVIDING LATERAL SUPPORT FOR METAL SIDING ONLY. MAXIMUM GIRT LATERAL DEFLECTION FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED SPAN/360 FOR GIRTS PROVIDING LATERAL SUPPORT FOR BRICK.
8. MAXIMUM BUILDING SIDESWAY (DRIFT) FROM WIND LOADS SHALL NOT EXCEED WALL HEIGHT/240 WHEN SUPPORTING METAL SIDING ONLY. MAXIMUM BUILDING SIDESWAY (DRIFT) FROM WIND LOADS SHALL NOT EXCEED SPAN/360 WHEN SUPPORTING BRICK.
9. MAXIMUM BUILDING SIDESWAY (DRIFT) FROM SEISMIC LOADS SHALL NOT EXCEED CODE REQUIRED MINIMUM.
10. THE GENERAL CONTRACTOR AND METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR OVERALL BUILDING COORDINATION. ALL COORDINATION OF THE INTERFACE AND COMPATIBILITY BETWEEN THE METAL BUILDING AND THE ARCHITECTURAL FEATURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE METAL BUILDING MANUFACTURER.
11. DESIGN OF THE METAL BUILDING USING DEAD, LIVE, SEISMIC, WIND, AND SNOW LOADS IN THE CODE REQUIRED COMBINATIONS SHALL BE PERFORMED BY THE METAL BUILDING MANUFACTURER.
12. METAL BUILDING ANCHOR BOLTS SHALL STAY WITH IN THE REINFORCEMENT CAGE.
13. ALL ANCHOR RODS SHALL BE ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

DESIGN LOADS:

DEAD LOADS: WEIGHT OF THE STRUCTURE

ROOF LIVE LOAD: 20 PSF

GROUND SNOW LOAD: 10 PSF

BASIC WIND SPEED: Vult: 119 MPH
Vasd: 92 MPH

WIND RISK CATEGORY: II

WIND EXPOSURE: C

INTERNAL PRESSURE COEFFICIENT: 0.18

COMP. & CLADDING WIND PRESSURE: SEE ASCE 7, Ch. 30

SEISMIC IMPORTANCE FACTOR: I: 1.00

SEISMIC RISK CATEGORY: II

MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss: 0.69
S1: 0.22
Sds: 0.50
Sdt: 0.30

SPECTRAL RESPONSE COEFFICIENTS: D

SITE CLASS: D

SEISMIC DESIGN CATEGORY: D

BASIC SEISMIC-FORCE RESISTING SYSTEM: MOMENT RESISTING FRAME SYSTEM

DESIGN BASE SHEAR: STEEL ORDINARY MOMENT FRAMES

SEISMIC RESPONSE COEFFICIENT: 0.15W

RESPONSE MODIFICATION FACTOR: Cs: 0.16

ANALYSIS PROCEDURE: R: 3.50
EQUIV. LATERAL FORCE (1617.4)

CODES: 2018 INTERNATIONAL BUILDING CODE

PRE-ENGINEERED METAL BUILDING DESIGN LOADS:

ROOF DEAD LOAD: ACTUAL WEIGHT OF THE STRUCTURE

COLLATERAL LOAD: HANGING EQUIPMENT, LIGHTS, CEILINGS, ETC. (7 PSF MINIMUM COLLATERAL DEAD LOAD. INCLUDE ACTUAL WEIGHT OF SUSPENDED EQUIPMENT.)

ROOF LIVE LOAD: 20 PSF (PURLINS AND FRAMES). LIVE LOAD REDUCTIONS WILL NOT BE ALLOWED

SNOW LOAD: (SEE DESIGN LOADS ABOVE)

WIND LOAD: (SEE DESIGN LOADS ABOVE)

SEISMIC LOAD: (SEE DESIGN LOADS ABOVE)

CODE: 2018 INTERNATIONAL BUILDING CODE

DESIGN LOADS FOR ICC 500 STORM SHELTER:

DEAD LOADS: WEIGHT OF THE STRUCTURE

ROOF LIVE LOAD: 100 PSF

GROUND SNOW LOAD: 10 PSF

BASIC WIND SPEED: Vult: 250 MPH
Vasd: 194 MPH

WIND RISK CATEGORY: IV

WIND EXPOSURE: C

TOPOGRAPHIC FACTOR: Kzt: 1

DIRECTIONALITY FACTOR: Kd: 1

INTERNAL PRESSURE COEFFICIENT: +/-0.55

COMP. & CLADDING WIND PRESSURE: SEE ASCE 7, Ch. 30

SEISMIC IMPORTANCE FACTOR: I: 1.5

SEISMIC RISK CATEGORY: IV

MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss: 0.33
S1: 0.15
Sds: 0.29
Sdt: 0.15

SPECTRAL RESPONSE COEFFICIENTS: C

SITE CLASS: C

SEISMIC DESIGN CATEGORY: BEARING WALL SYSTEM

BASIC SEISMIC-FORCE RESISTING SYSTEM: SPECIAL REINF MASONRY SHEAR WALLS

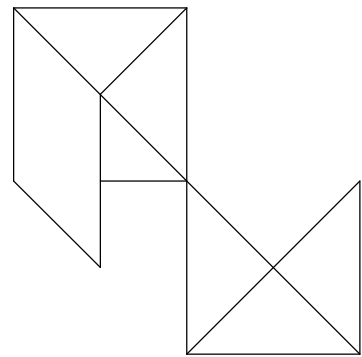
DESIGN BASE SHEAR: 0.17W

SEISMIC RESPONSE COEFFICIENT: Cs: 0.17

RESPONSE MODIFICATION FACTOR: R: 5.00

ANALYSIS PROCEDURE: EQUIV. LATERAL FORCE (1617.4)

CODES: 2018 INTERNATIONAL BUILDING CODE
2014 ICC 500



PryorMorrow PC

South Tippah School District
Tippah Career & Technology Center Addition

Ripley, Mississippi

Mark	Date	Description



PROJECT NO. 2024520
DRAWN BY: SBW
CHECKED BY: SBW

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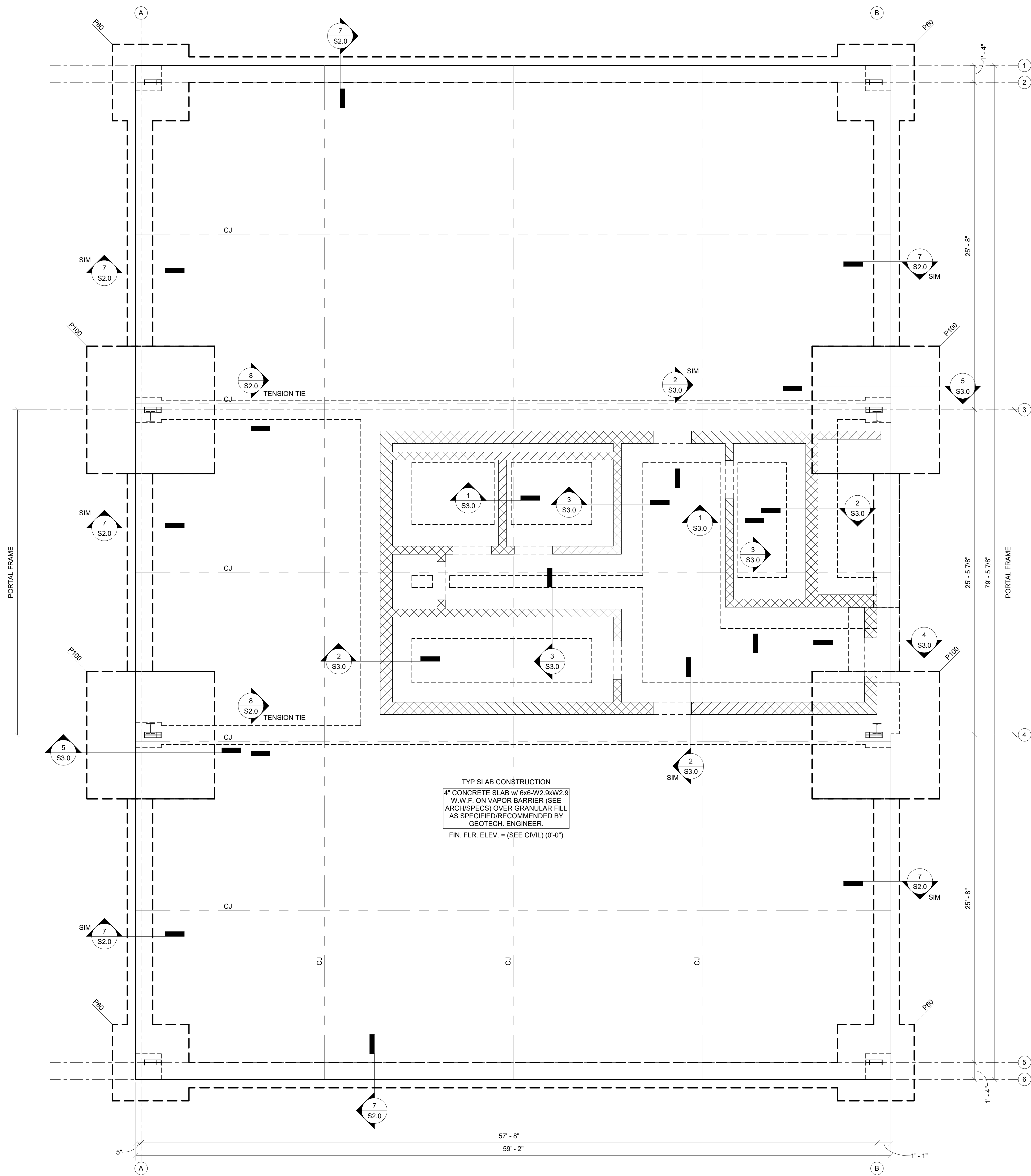
PryorMorrow PC

NOTE SHEET

S1.0

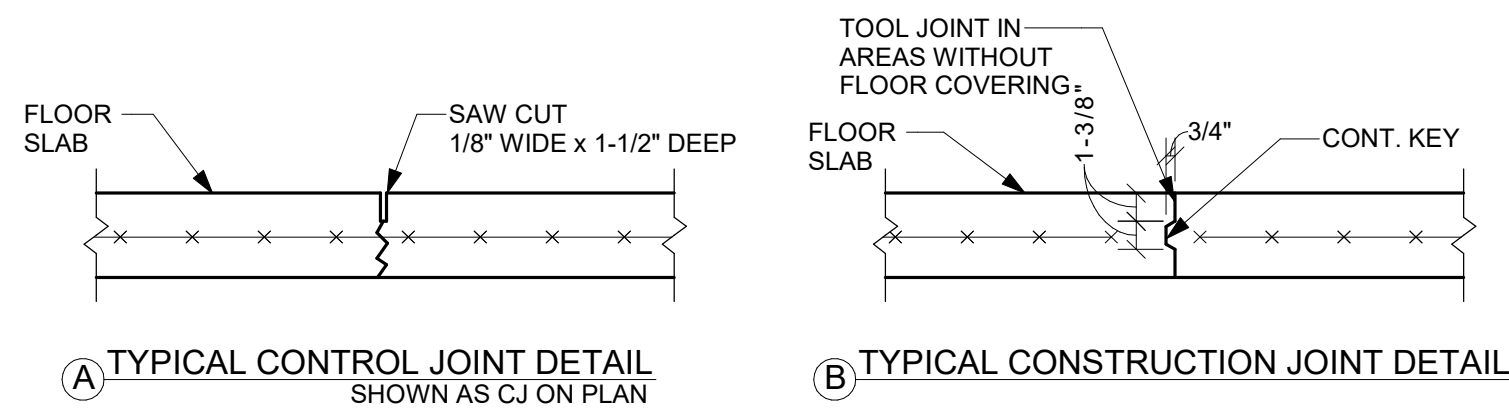
SCALE: 12" = 1'-0"





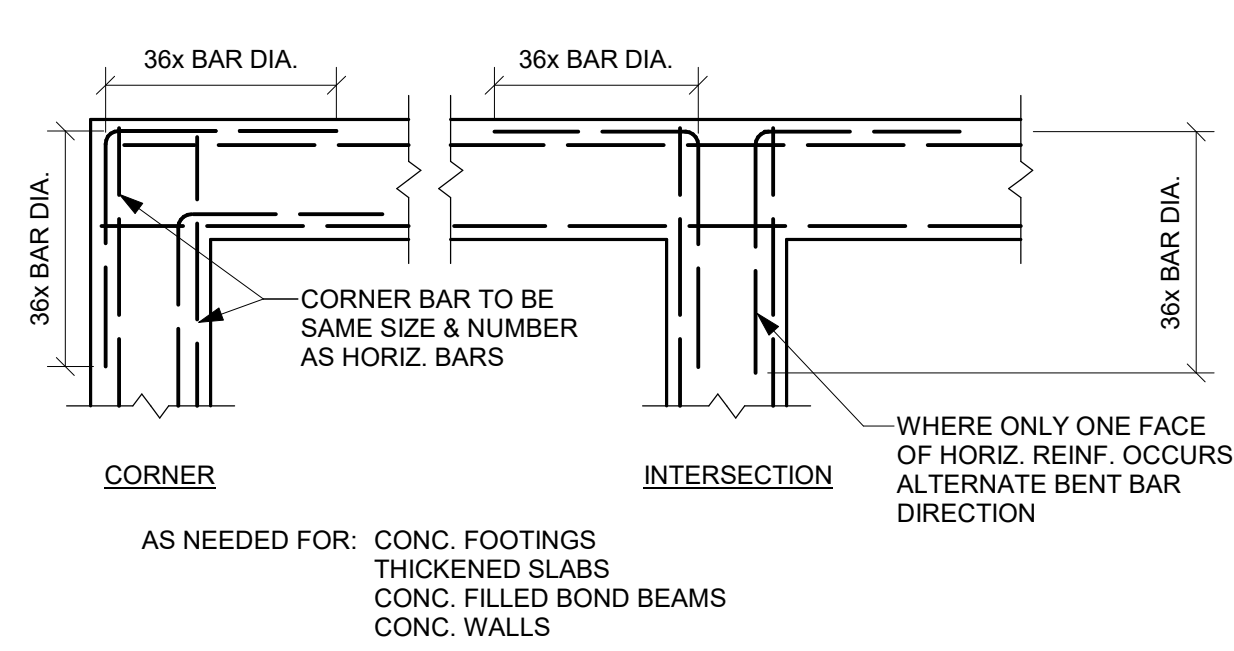
P1 FOUNDATION PLAN
1/4" = 1'-0"

PAD FOOTING SCHEDULE				
MARK	"W"	"L"	"t"	REINFORCING
P60	6'-0"	6'-0"	1'-0"	(7)#6 EA WAY
P100	10'-0"	10'-0"	2'-0"	(11)#6 EA WAY
				REMARKS
				TOP & BOT
				TOP & BOT

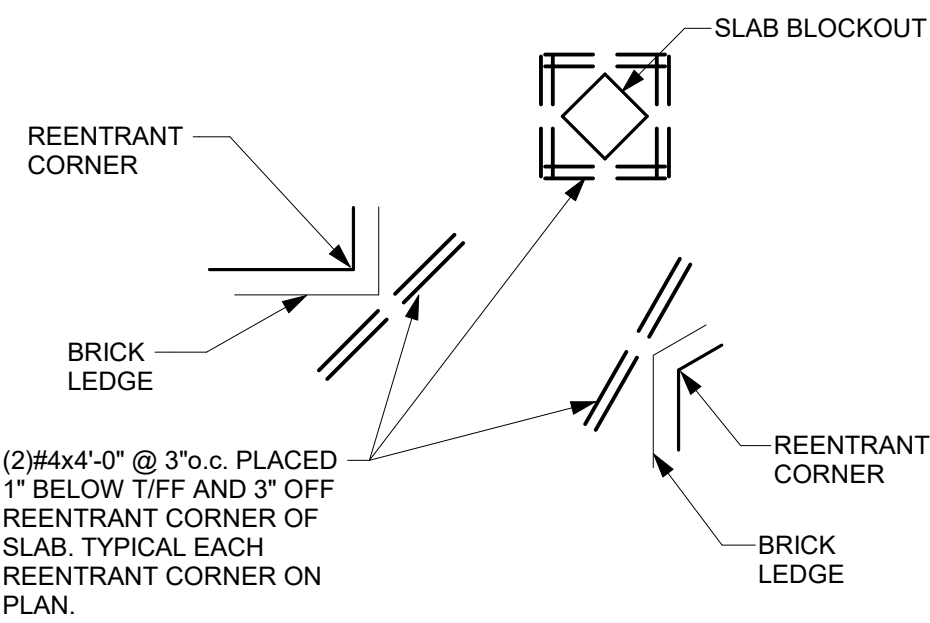


CONTRACTOR:
CONTRACTOR IS RESPONSIBLE FOR JOINTS CRACKING AS SHOWN
ON PLAN AND DETAIL. SAWING JOINTS SHALL BEGIN AS SOON AS
THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE TORN OR
DAMAGED BY THE BLADE. SLABS MUST BE SAWN ON SAME DAY SLAB
IS POURED. DO NOT ALLOW SLAB TO CURE OVERNIGHT BEFORE
SAWING.

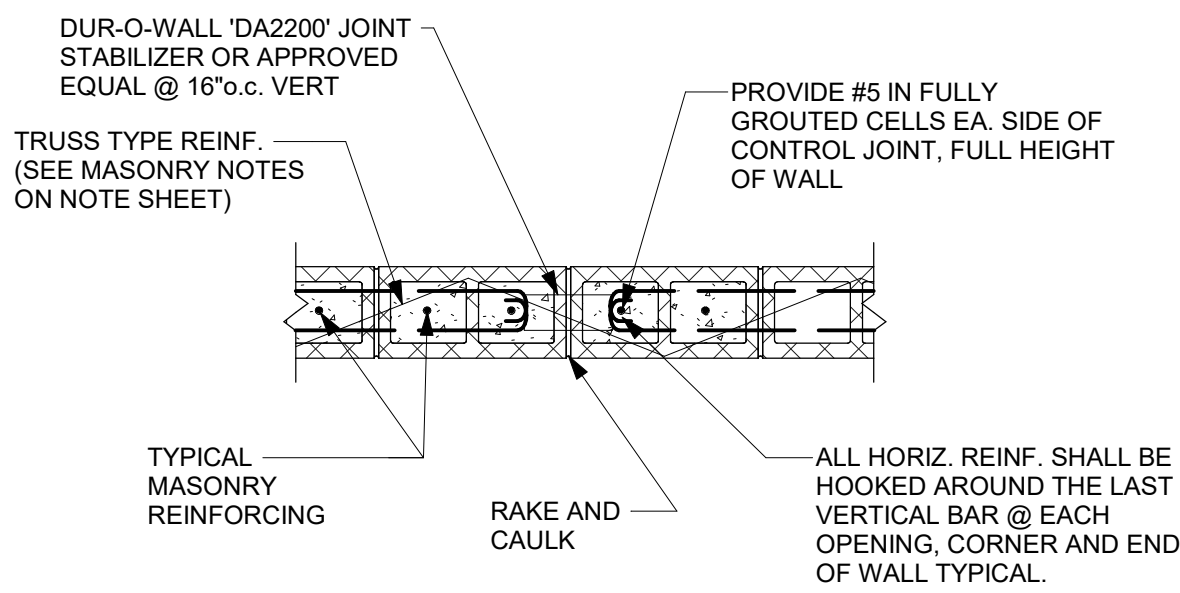
1 TYPICAL CONTROL JOINT DETAIL
NTS



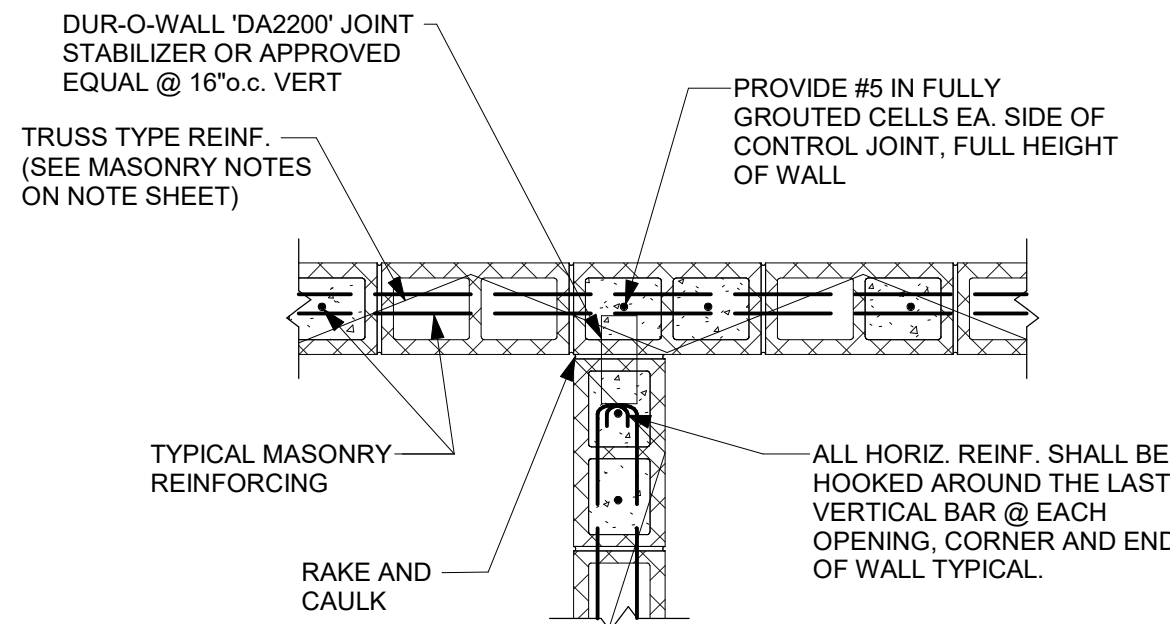
2 TYPICAL CORNER BAR PLAN DETAIL
NTS



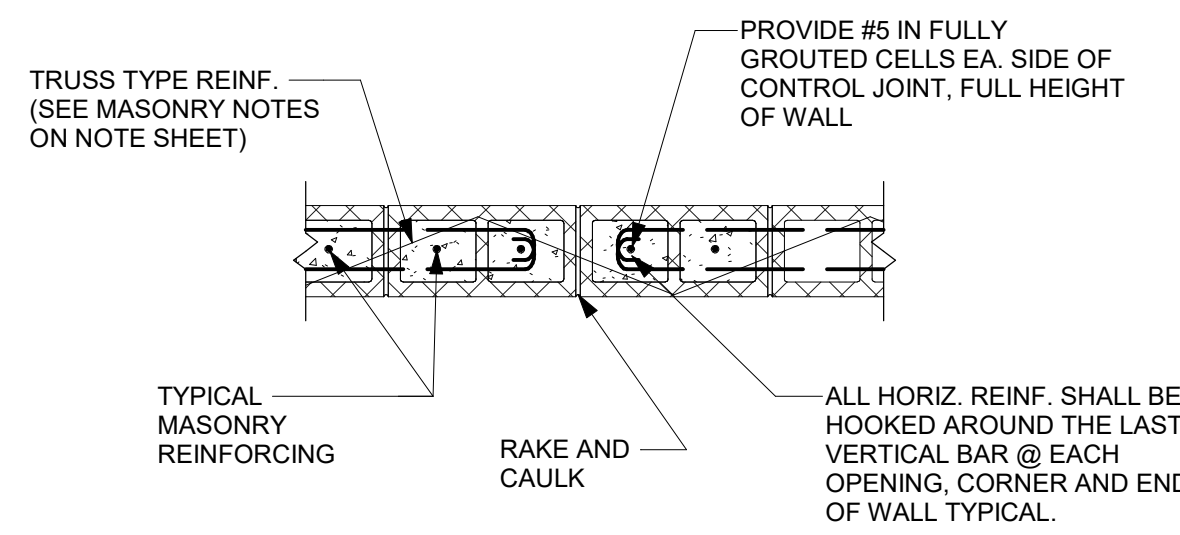
3 TYPICAL REENTRANT CORNER BARS
NTS



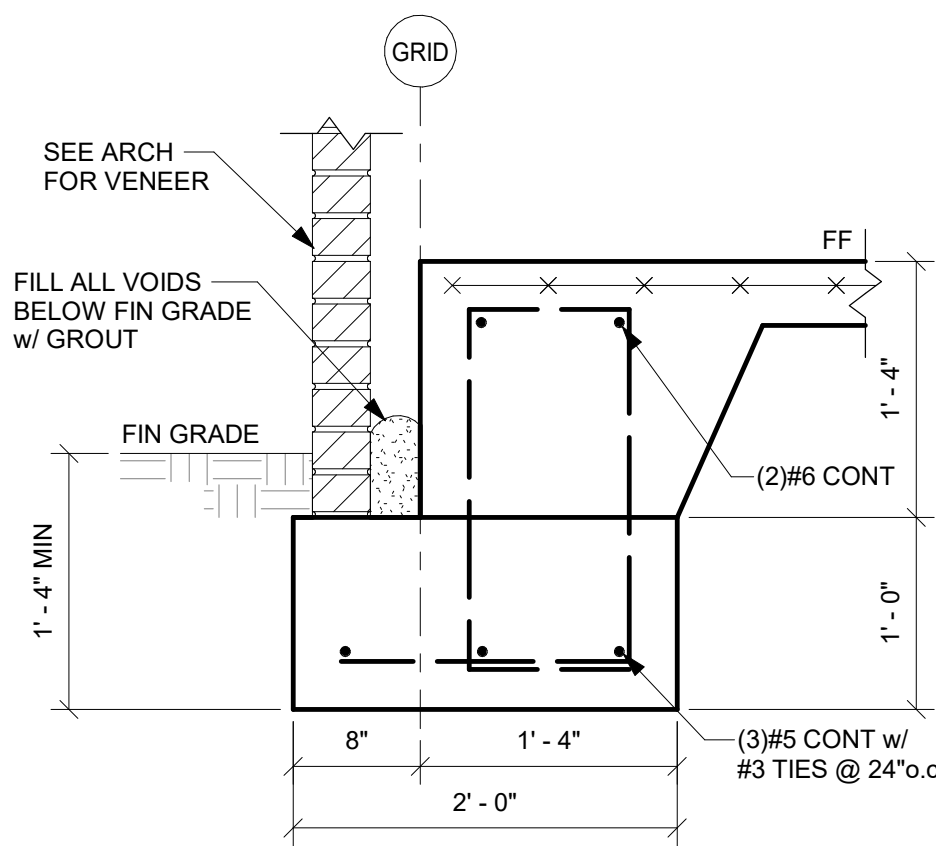
4 TYPICAL CONTROL JOINT IN MASONRY
NTS



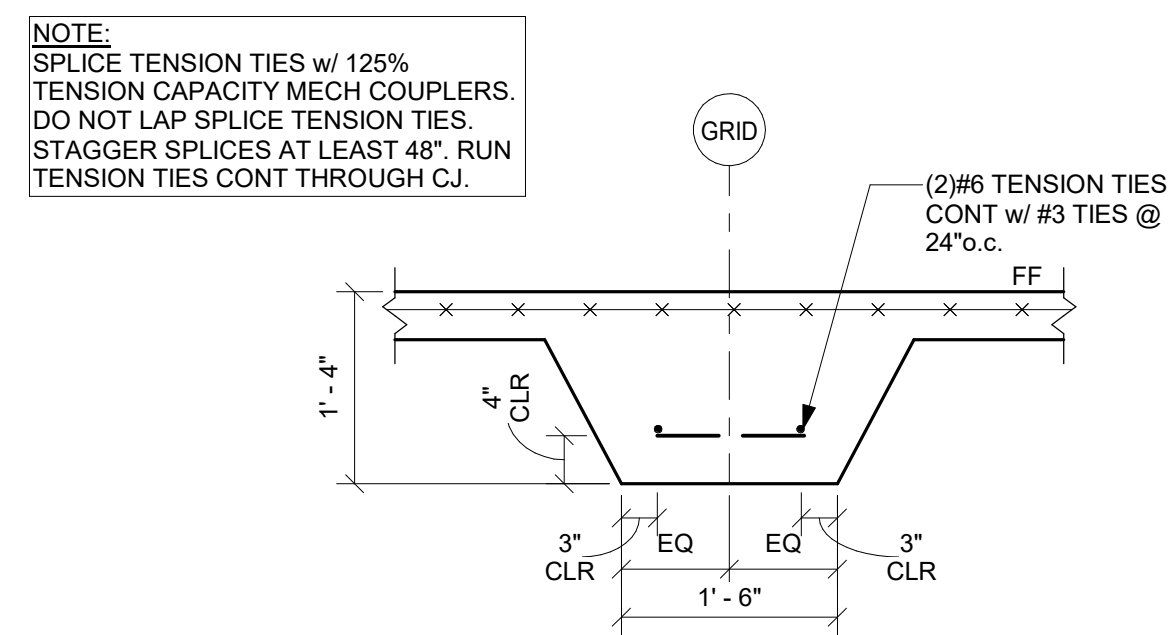
5 MASONRY CONTROL JOINT @ INTERSECTION
NTS



6 MASONRY WALL EXPANSION JOINT
NTS



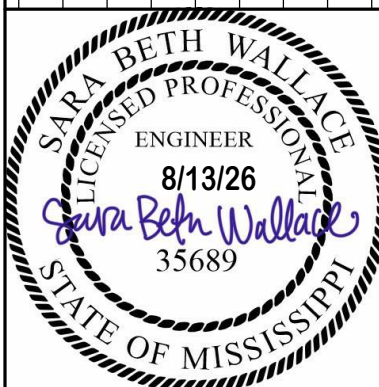
7 SECTION
1" = 1'-0"



8 TENSION TIE
3/4" = 1'-0"



Description	Date	Mark



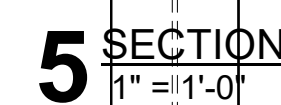
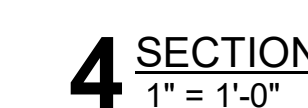
PROJECT NO.	2024520
DRAWN BY:	SBW
CHECKED BY:	SBW

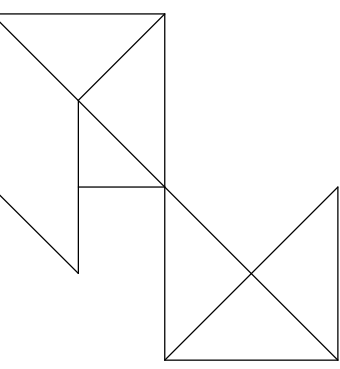


Ripley, Mississippi

PryorMorrow PC

SCALE: 1" = 1'-0"





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South Tippah School District Tippah Career & Technology Center Addition

Ripley, Mississippi

Description

Date

Mark



PROJECT NO. 2024520

DRAWN BY: SBW

CHECKED BY: SBW

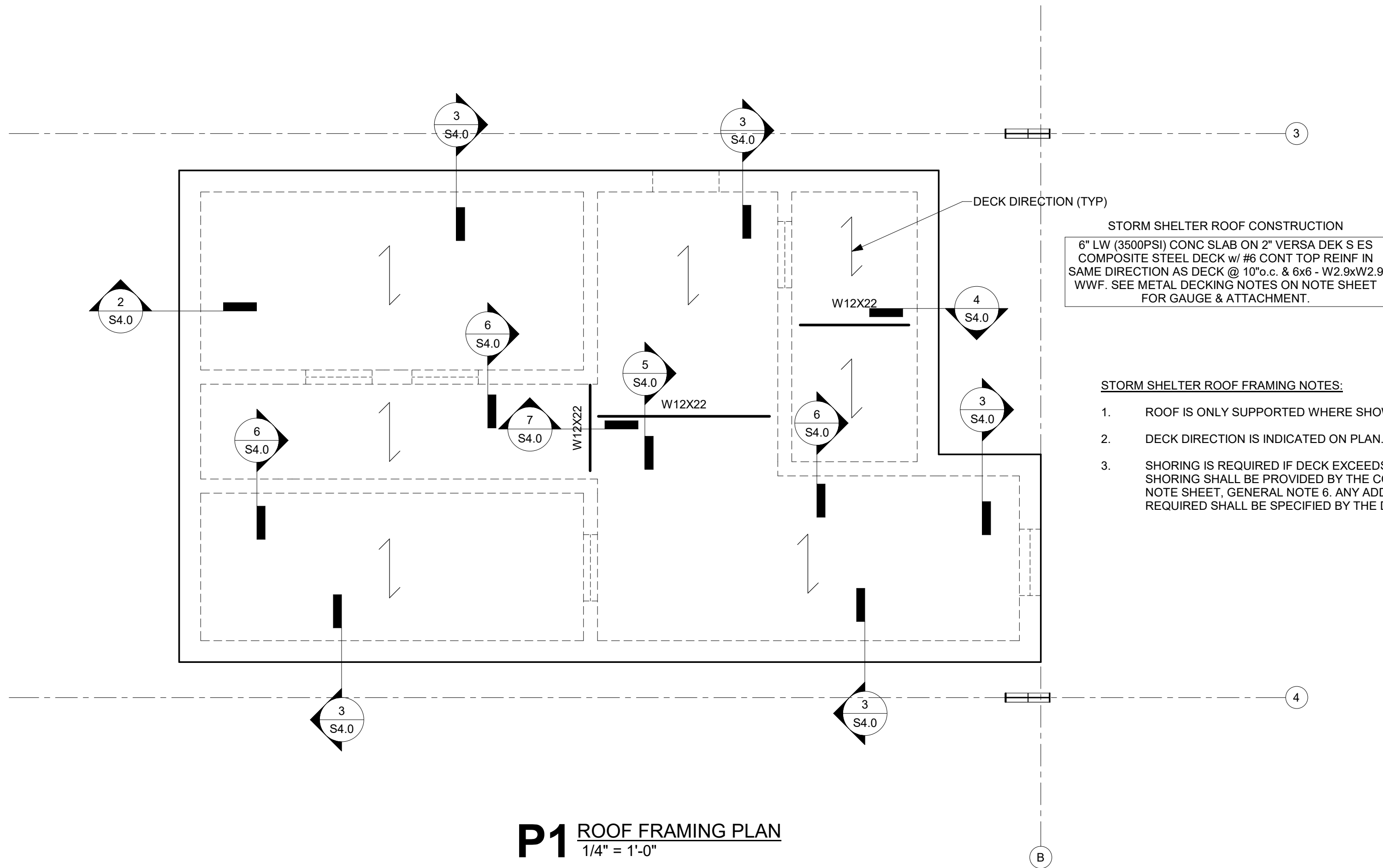
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ROOF FRAMING PLAN & DETAILS

S4.0

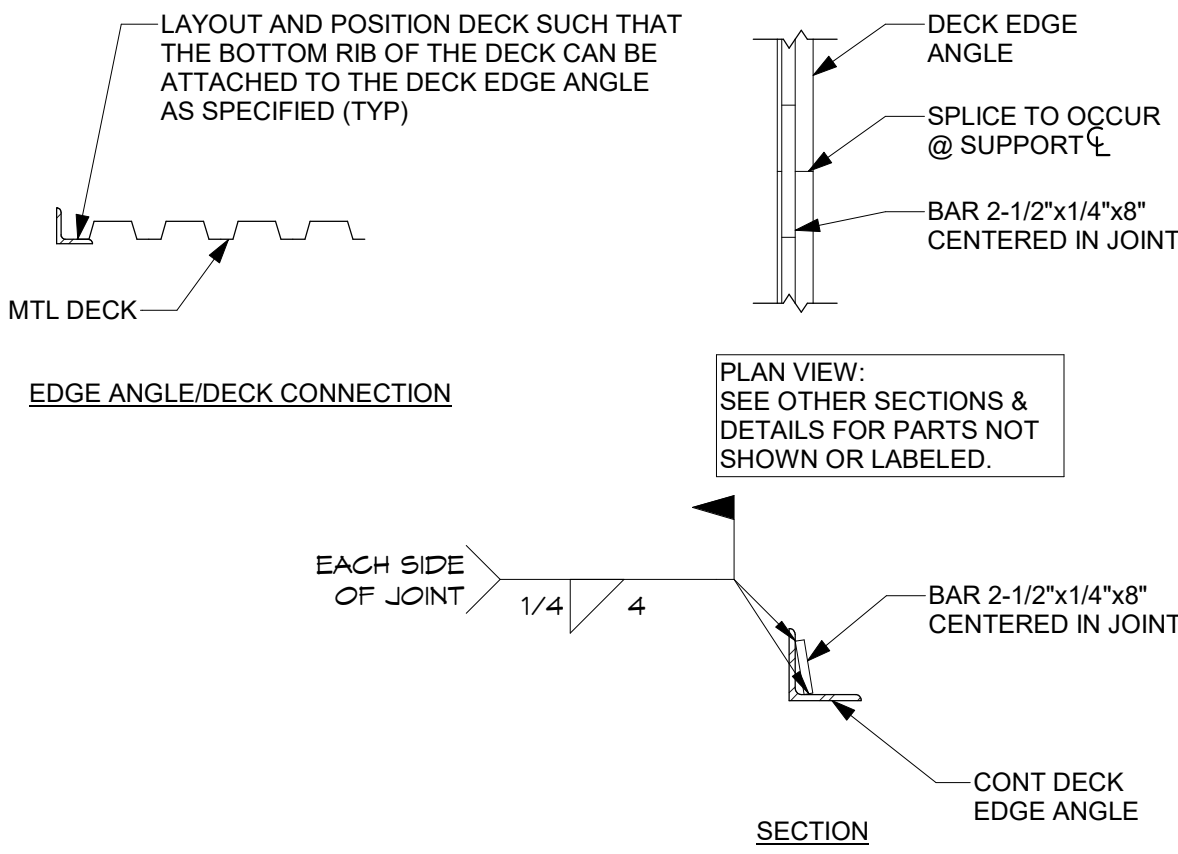
SCALE: As indicated



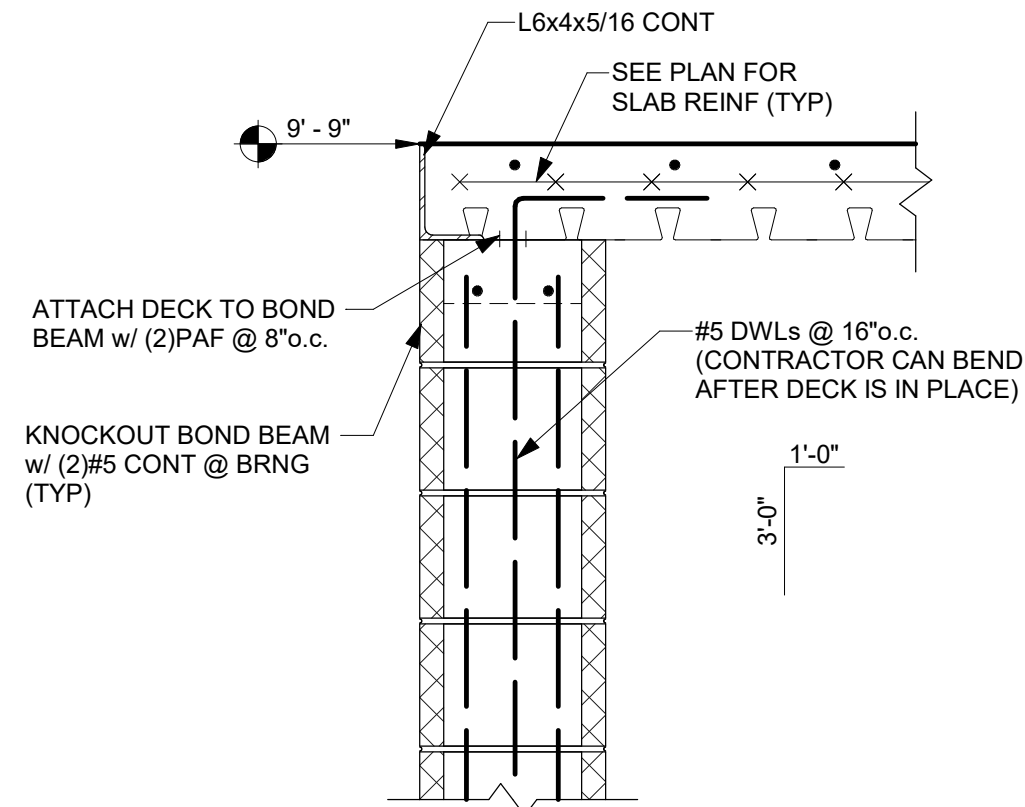
STORM SHELTER ROOF CONSTRUCTION
6" LW (3600PSI) CONC SLAB ON 2" VERSA DEK S ES
COMPOSITE STEEL DECK w/ #6 CONT TOP REINF IN
SAME DIRECTION AS DECK @ 10"o.c. & 6x6 - W2 9xW2.9
WWF. SEE METAL DECKING NOTES ON NOTE SHEET
FOR GAUGE & ATTACHMENT.

STORM SHELTER ROOF FRAMING NOTES:

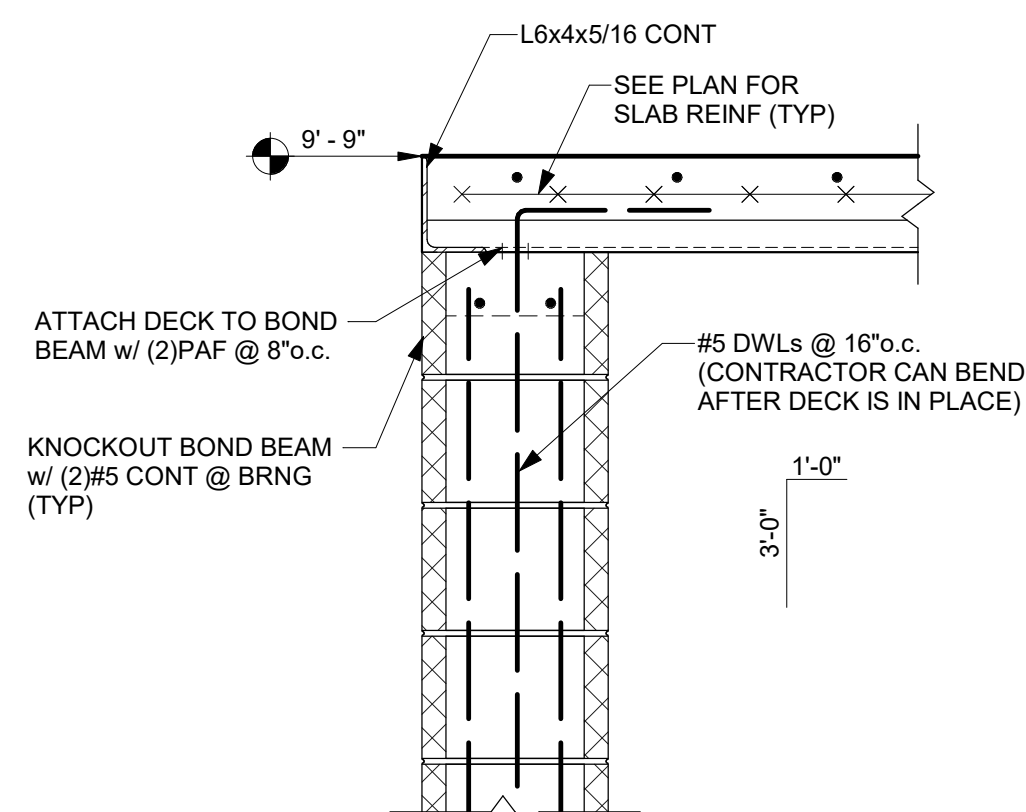
1. ROOF IS ONLY SUPPORTED WHERE SHOWN.
2. DECK DIRECTION IS INDICATED ON PLAN.
3. SHORING IS REQUIRED IF DECK EXCEEDS A CLEAR SPAN OF 11'-0". THE SHORING SHALL BE PROVIDED BY THE CONTRACTOR AS NOTED ON THE NOTE SHEET. GENERAL NOTE 6. ANY ADDITIONAL REINFORCEMENT REQUIRED SHALL BE SPECIFIED BY THE DECK MANUFACTURER.



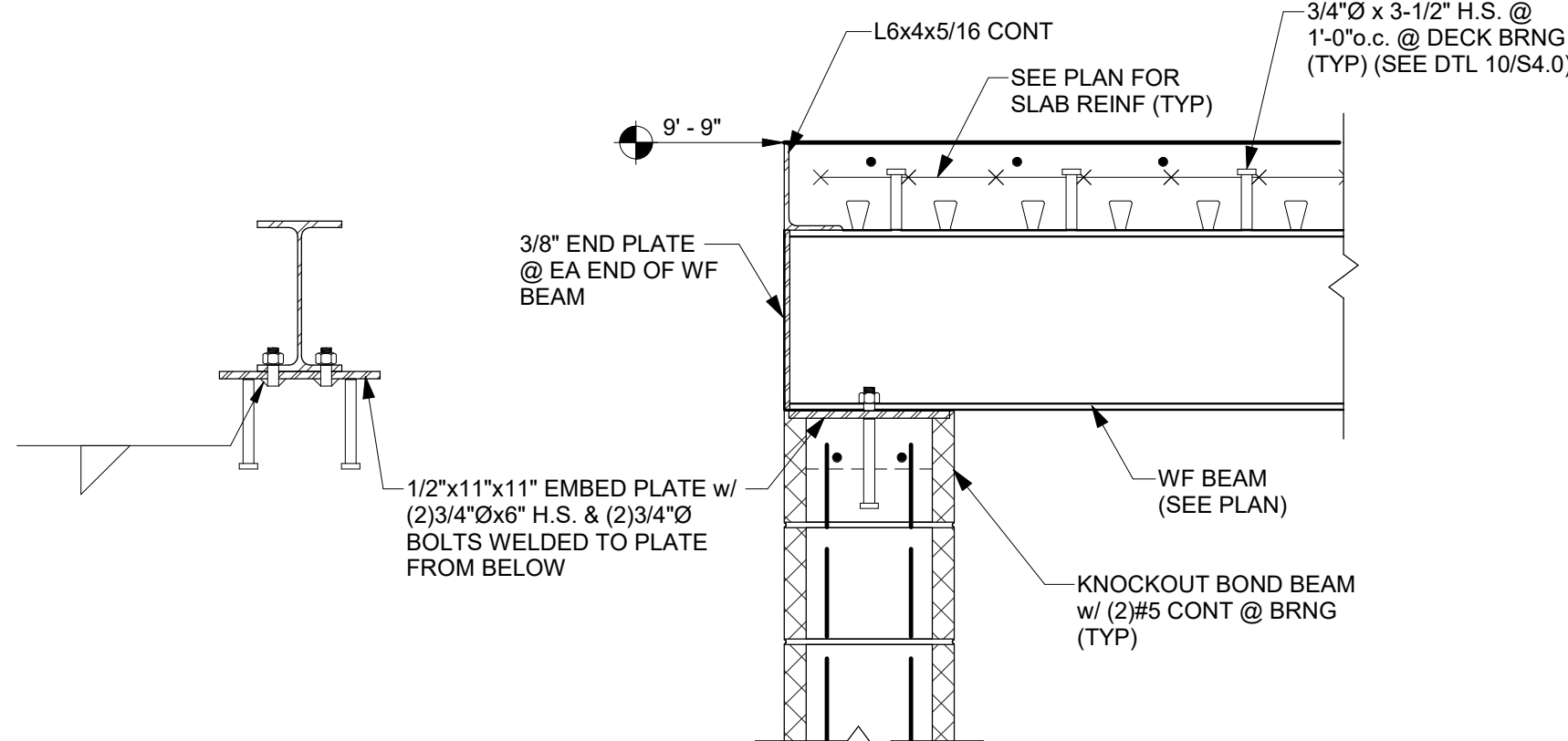
1 DECK EDGE ANGLE DETAILS
NTS



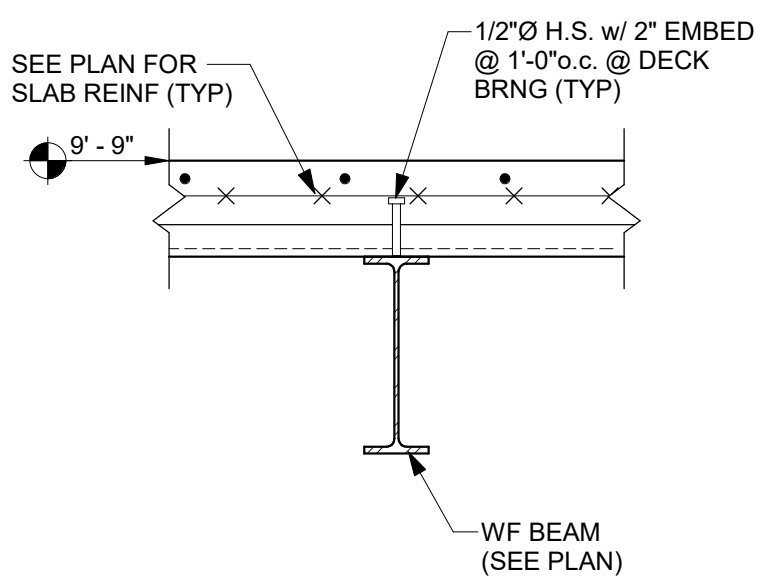
2 SECTION
1" = 1'-0"



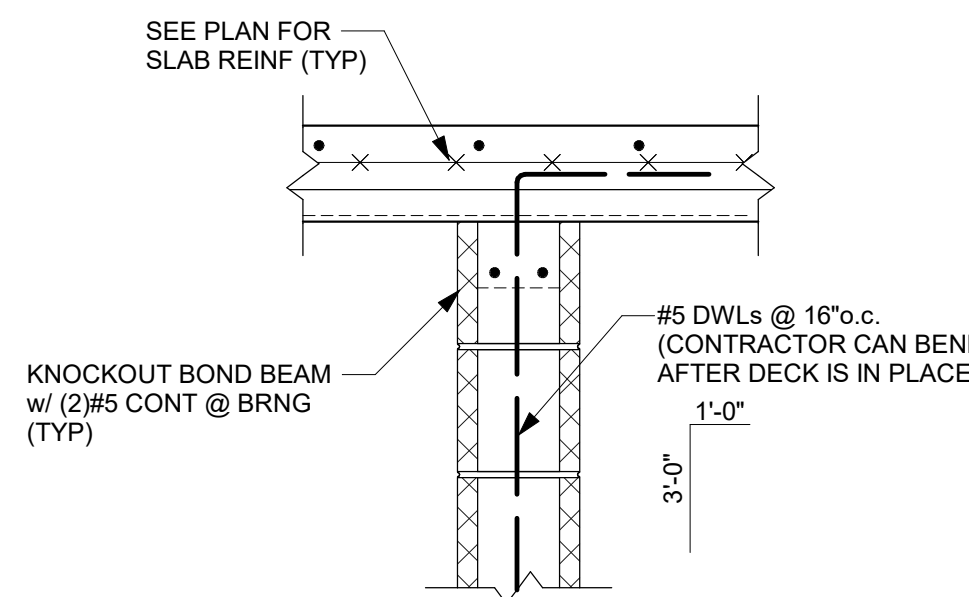
3 SECTION
1" = 1'-0"



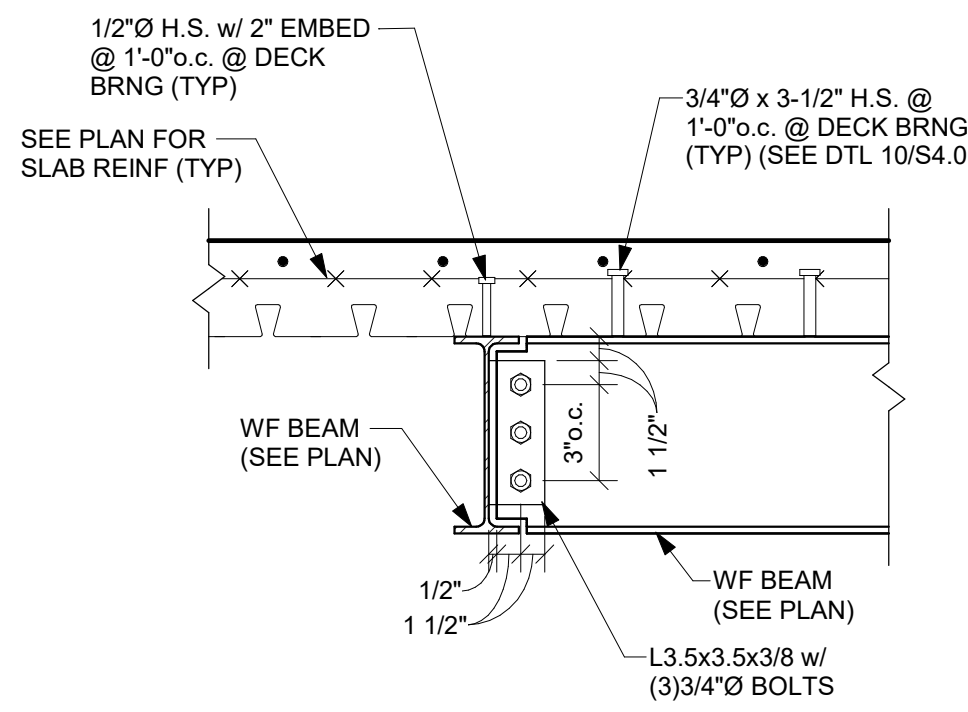
4 SECTION
1" = 1'-0"



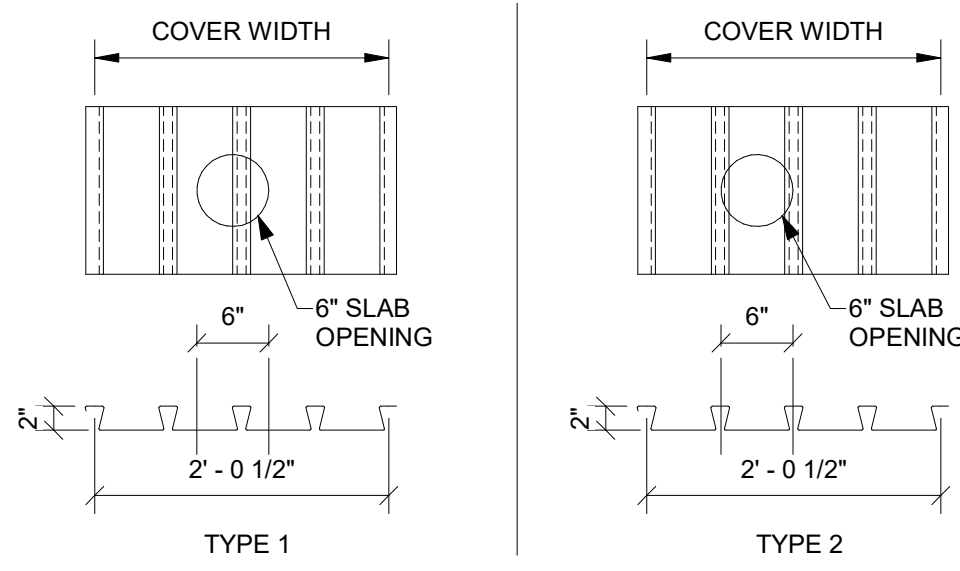
5 SECTION
1" = 1'-0"



6 SECTION
1" = 1'-0"



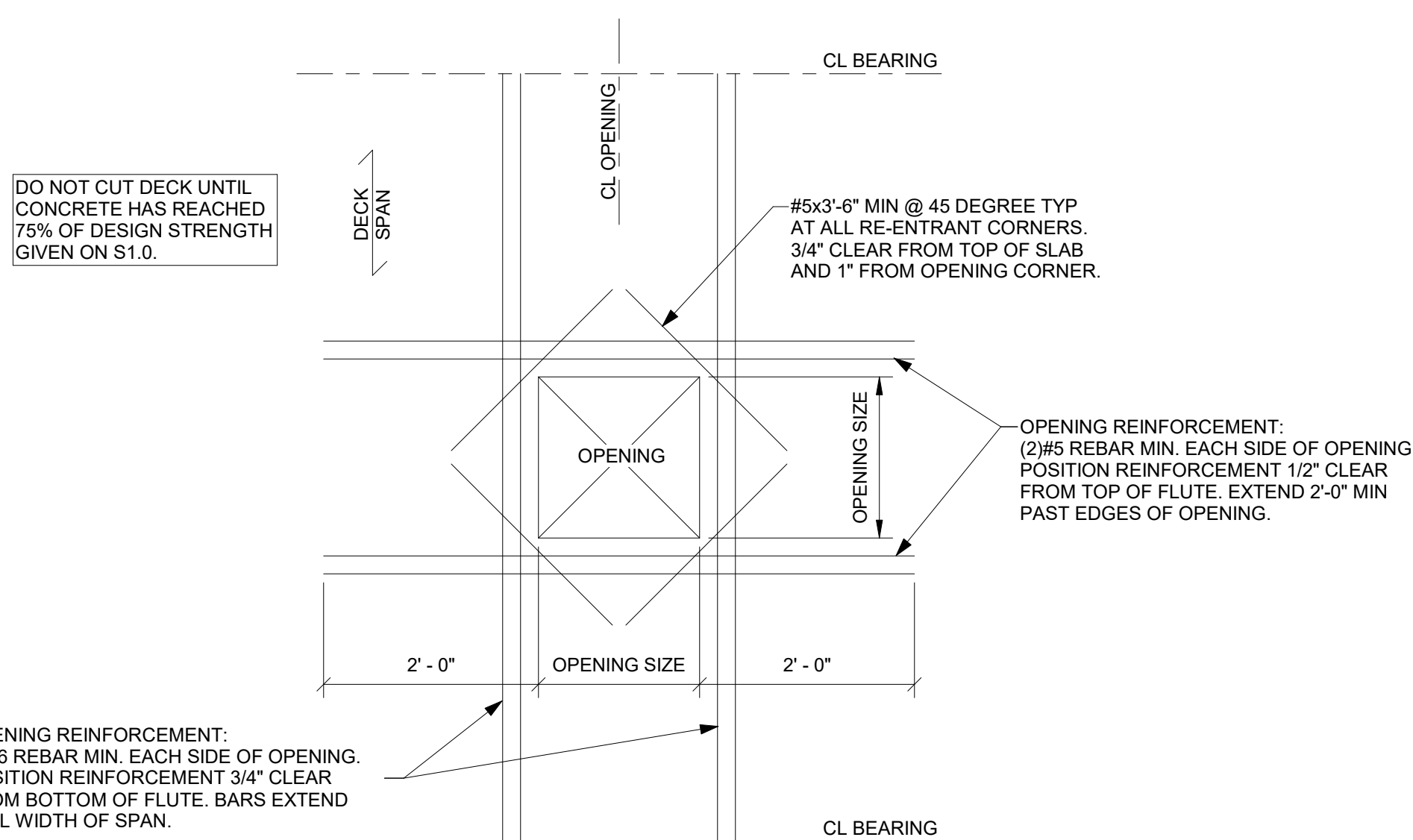
7 SECTION
1" = 1'-0"



1. TYPE 1 AND TYPE 2 ARE EXAMPLES OF PENETRATION LOCATIONS. NO MORE THAN ONE HOLE IS ALLOWED PER DECK PANEL COVERWIDTH.
2. NO MORE THAN TWO VERTICAL WEBS OF THE DECK PROFILE CAN BE REMOVED PER DECK PANEL.

(*) MULTIPLE OPENINGS ALONG THE LENGTH OR ACROSS THE WIDTH OF A SINGLE DECK PANEL WILL REQUIRE ADDITIONAL ANALYSIS BY THE LICENSED ENGINEER RESPONSIBLE FOR THE SLAB DESIGN.

8 LONG SPAN DECK OPENING - CONDITION A (LESS THAN 6")
NTS



DO NOT CUT DECK UNTIL CONCRETE HAS REACHED 75% OF DESIGN STRENGTH GIVEN ON S1.0.

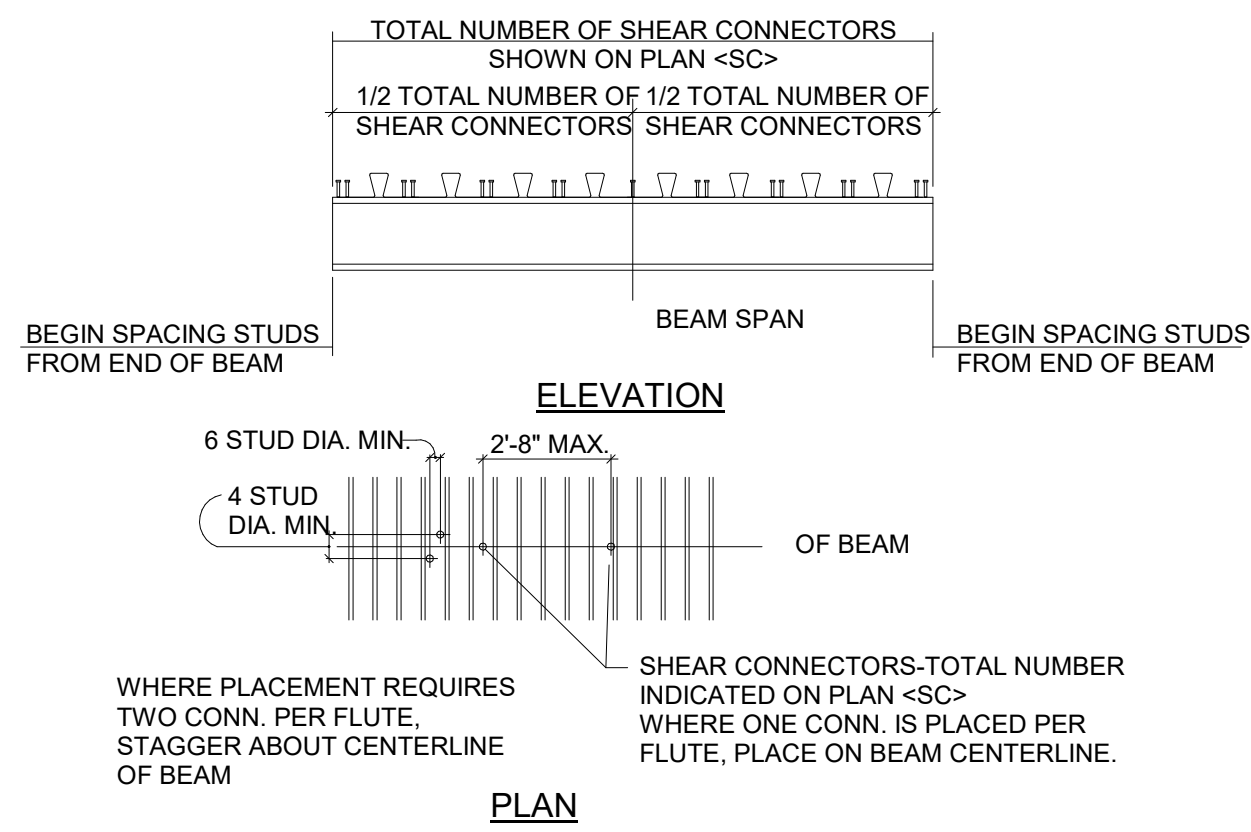
OPENING REINFORCEMENT: (2)#6 REBAR MIN. EACH SIDE OF OPENING. POSITION REINFORCEMENT 3/4" CLEAR FROM BOTTOM OF FLUTE. BARS EXTEND FULL WIDTH OF SPAN.

CONDITION B - OPENINGS GREATER THAN 6" AND LESS THAN 24"

1. NO MORE THAN ONE HOLE IS ALLOWED PER DECK PANEL COVERWIDTH.
2. ADJACENT HOLES SHOULD BE SPACED AT A MINIMUM OF 6'-0"o.c. BUT NOT EXCEED ONE HOLE PER DECK PANEL COVERWIDTH.

(*) MULTIPLE OPENINGS ALONG THE LENGTH OR ACROSS THE WIDTH OF A SINGLE DECK PANEL WILL REQUIRE ADDITIONAL ANALYSIS BY THE LICENSED ENGINEER RESPONSIBLE FOR THE SLAB DESIGN.

9 LONG SPAN DECK OPENING - CONDITION B (6" TO 24")
NTS



10 TYP. SHEAR CONNECTOR PLACEMENT DETAIL
NTS



International Building Code
(2018 Edition)

Proposed Building Description:
Career Technical Building: E
Construction: II-B noncombustible, non-rated
Sprinklered: No
Stories: 1
Designed Area: 4,525 SF

OCCUPANT LOAD: 104 Occupants
REQUIRED EGRESS WIDTH: 104 x 0.2 IN. = 22.2 IN.
TOTAL EGRESS WIDTH AT DOORS: 160 IN.

International Building Code
(2018 Edition)

Chapter 3 Use and Occupancy Classification

305.1 Educational Group E.
Educational Group E occupancy includes, among others, the use of a building or structure, or a portion thereof, by six or more persons at any one time for educational purposes through the 12th grade.

Section 423 Storm Shelters

423.4 Group E occupancies. In areas where the shelter design wind speed of tornados is 250 mph in accordance with Figure 304.2(1) of ICC 500, all Group E occupancies with an occupant load of 50 or more shall have a storm shelter constructed in accordance with ICC 500.

423.4.1 Required occupant capacity. The required occupant capacity of the storm shelter shall include all of the buildings on the site and shall be the greater of the following:

1. The total occupant load of the classrooms, vocational rooms and offices in the Group E occupancy.
2. The occupant load of any indoor assembly space that is associated with the Group E occupancy.

Exceptions:

1. Where a new building is being added on an existing Group E site. and where the new building is no of sufficient size to accommodate the required occupant capacity of the stom shelter for all of the buildings on the site, the storm shelter shall accomodate the required occupant capacity for the new building.

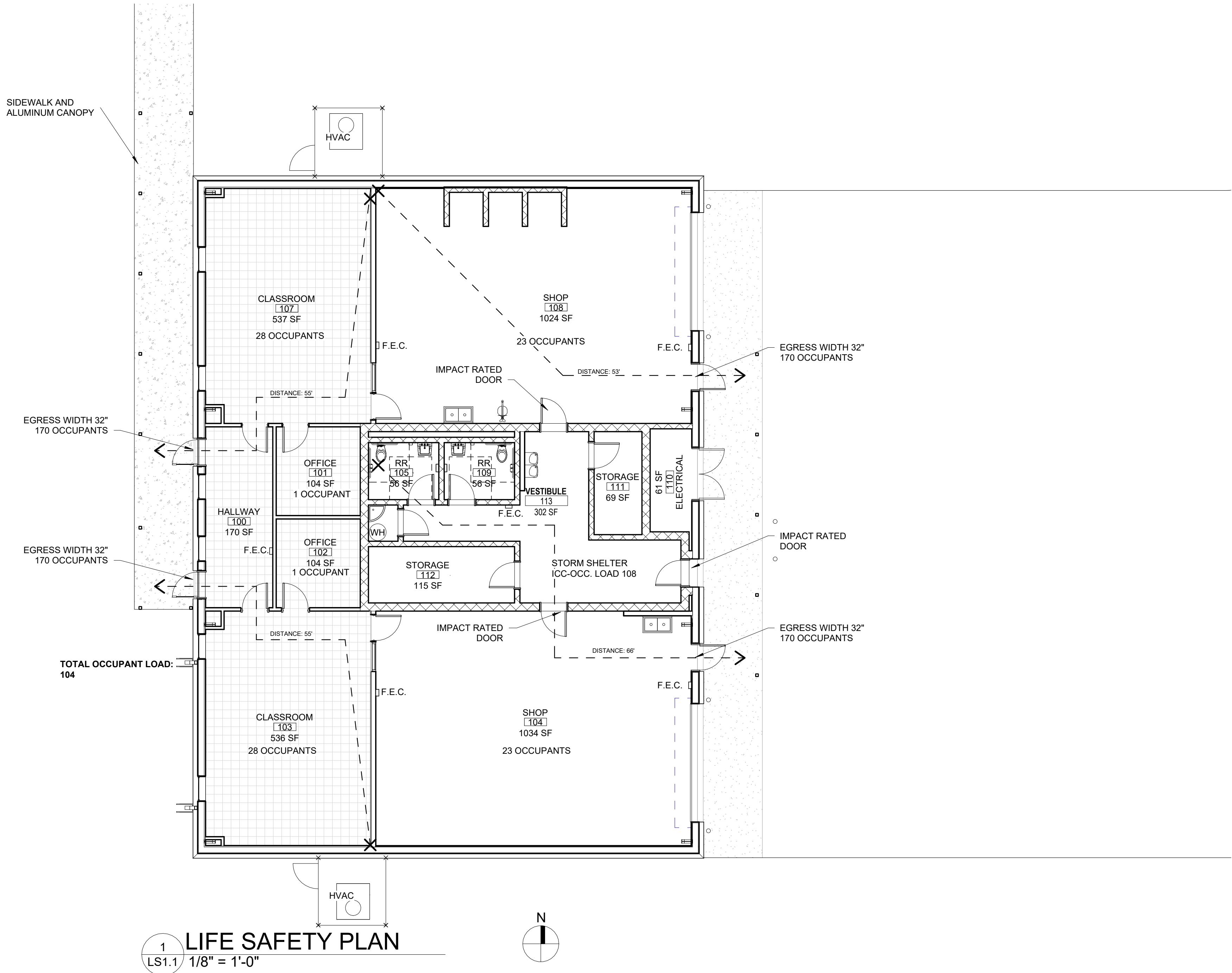
Section 504.4 Building Heights and Number of Stories

Occupancy Group: E
Type of Construction: Type II-B (noncombustible, non-rated)

Table 504.3, the height of a building of Type IIB construction with a Group E occupancy that is not sprinkled shall not exceed 55'-0" in height. Building Height: 18' - 0"

Table 506.2
Maximum Area: (E): 43,500 SF

Table 1017.2 Exit Access Travel Distance: Occupancy E non-sprinlered = 200'



LIFE SAFETY STUDY LEGEND

- XXX' TRAVEL PATH AND MAX DISTANCE
- FEC FIRE EXTINGUISHER CABINET

ICC 500 2023 STORM SHELTER INFORMATION

TABLE 502.3 OCCUPANT DENSITY- COMMUNITY STORM SHELTERS
TORNADO: OCCUPANTS WHO ARE STANDING OR SEATED: 55F PER PERSON
OCCUPANTS WHO ARE USING A WHEEL CHAIR : 10 SF PER PERSON
502.4 PROVIDE USABLE FLOOR AREA:
THE USABLE FLOOR AREA PROVIDED SHALL BE DETERMINED BY SECTION 502.4.1, 502.4.2 OR A COMBINATION OF THESE METHODS. THE USABLE FLOOR AREA PROVIDED SHALL MEET OR EXCEED REQUIRED USABLE FLOOR AREA DETERMINED IN SECTION 502.3. USABLE FLOOR AREAS SHALL NOT INCLUDE STORM SHELTER OCCUPANT SUPPORT AREAS.
EXCEPTION: IN COMMUNITY TORNADO SHELTERS, THE FOLLOWING OCCUPANT SUPPORT AREAS DHSLL BR PERMITTED TO BE CONSIDERED:
1. A SINGLE OCCUPANT TOILET ROOM AREA THAT IS THE ENTIRE SHELTER.
2. MULTI-STALL TOILET ROOMS, NOT INCLUDING THE TOILET STALLS AND TEMP. WATER CLOSET PRIVACY AREAS.

ROOM NAME	AREA	AREA REDUCTION	REDUCED AREA
VESTIBULE 113	310 SF	0	335 SF
STORAGE 111	69 SF	.15	59 SF
STORAGE 112	115 SF	.15	98 SF
RESTROOM 109	56 SF	.35	36 SF
RESTROOM 105	56 SF	.35	36 SF
TOTAL: 696 SF			
TOTAL OCCUPANT DENSITY: 108			

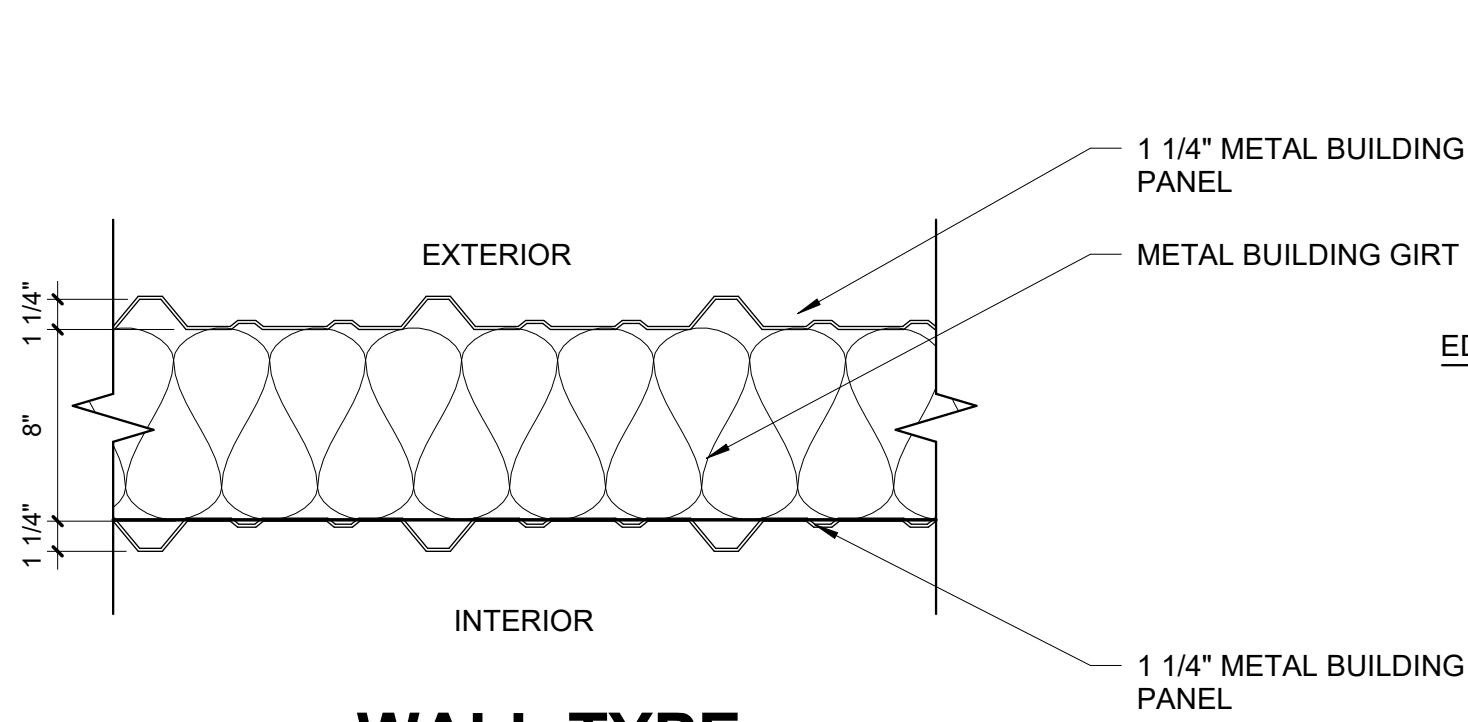
PryorMorrow PC

South Tippah School District
Tippah Career & Technology Center Addition
Ripley, Mississippi

Mark	Date	Description
CD	08/13/2026	CONSTRUCTION DOCUMENTS

PROJECT NO. 2024520
DRAWN BY: CRW
CHECKED BY: WVD
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LIFE SAFETY PLAN
LS1.1
SCALE: As indicated

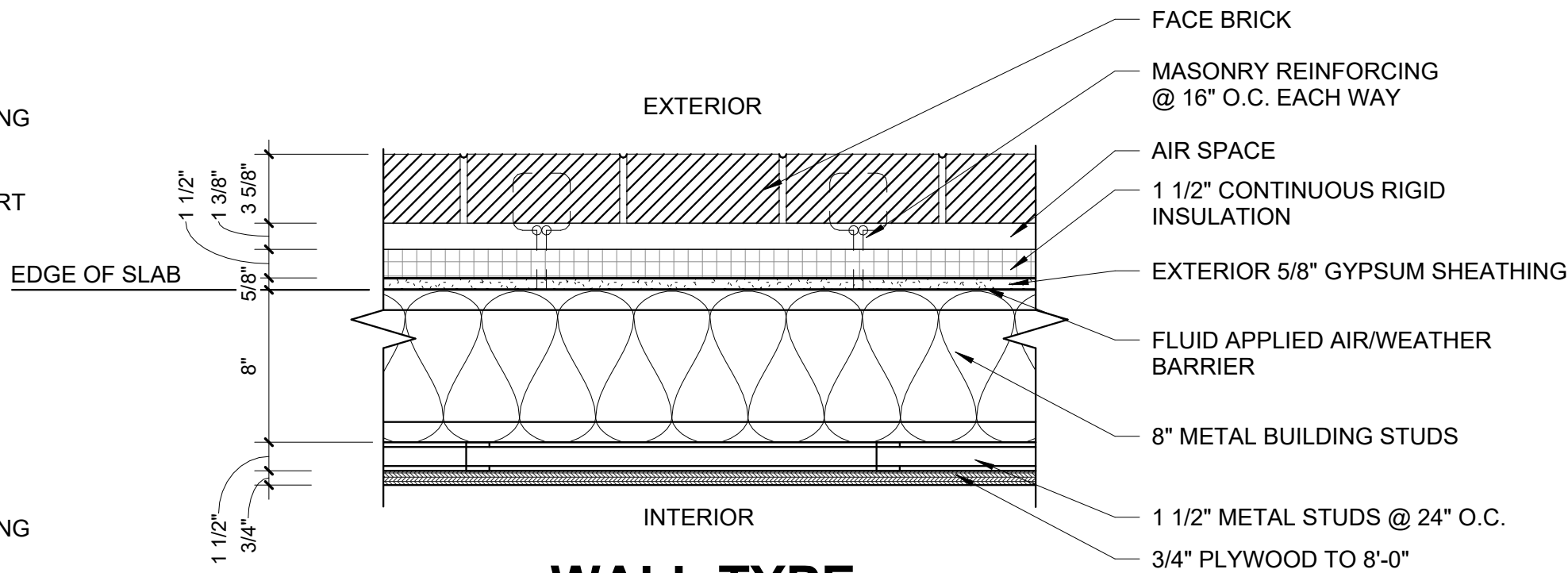
WALL TYPES LEGEND



WALL TYPE 1A

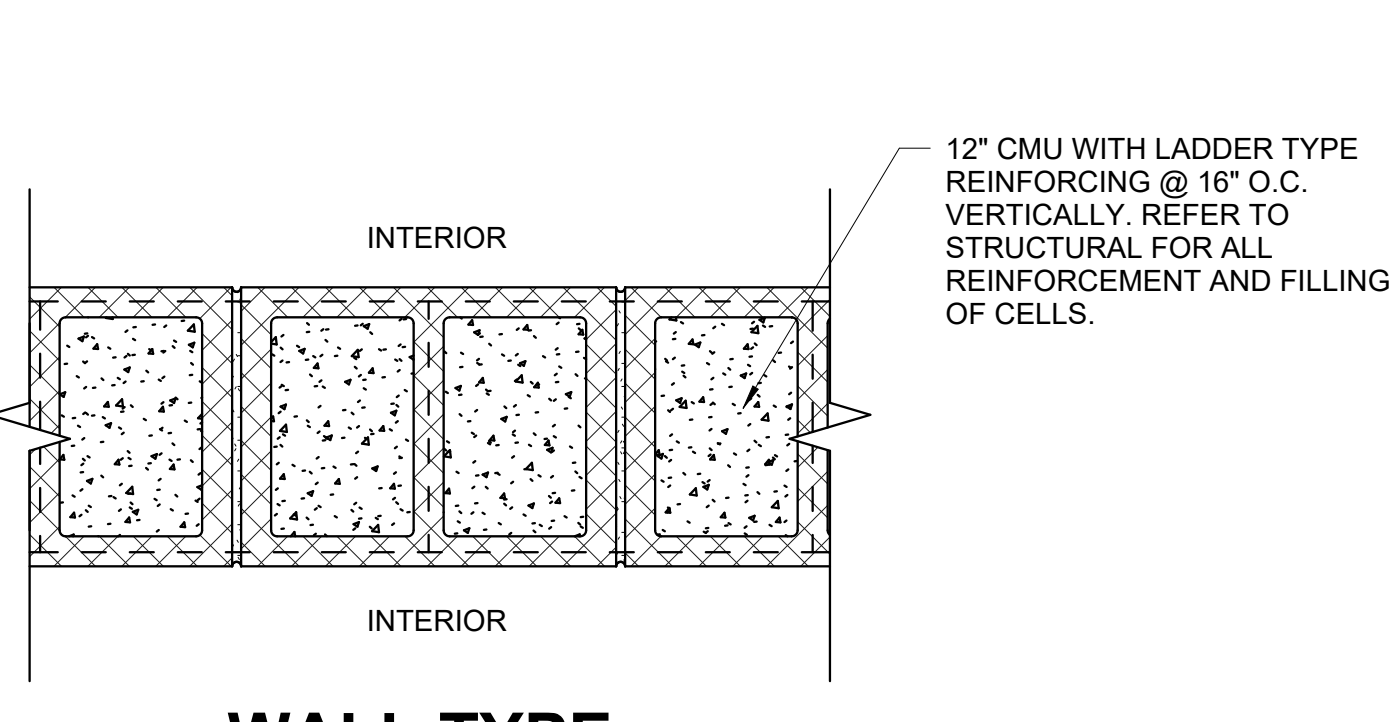
SCALE: 1 1/2" = 1'-0"

NOTE: ABOVE 8'-0" IN SHOP AREAS



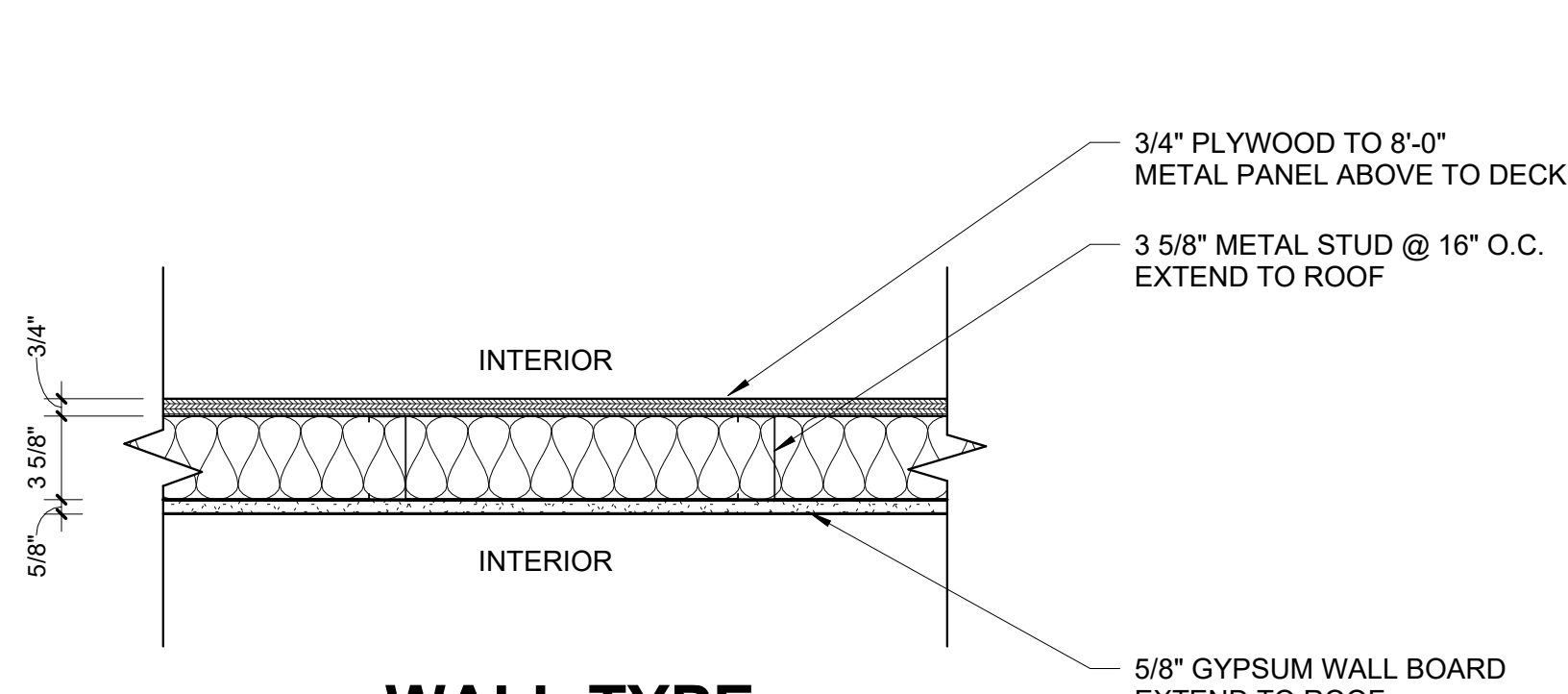
WALL TYPE 1B

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



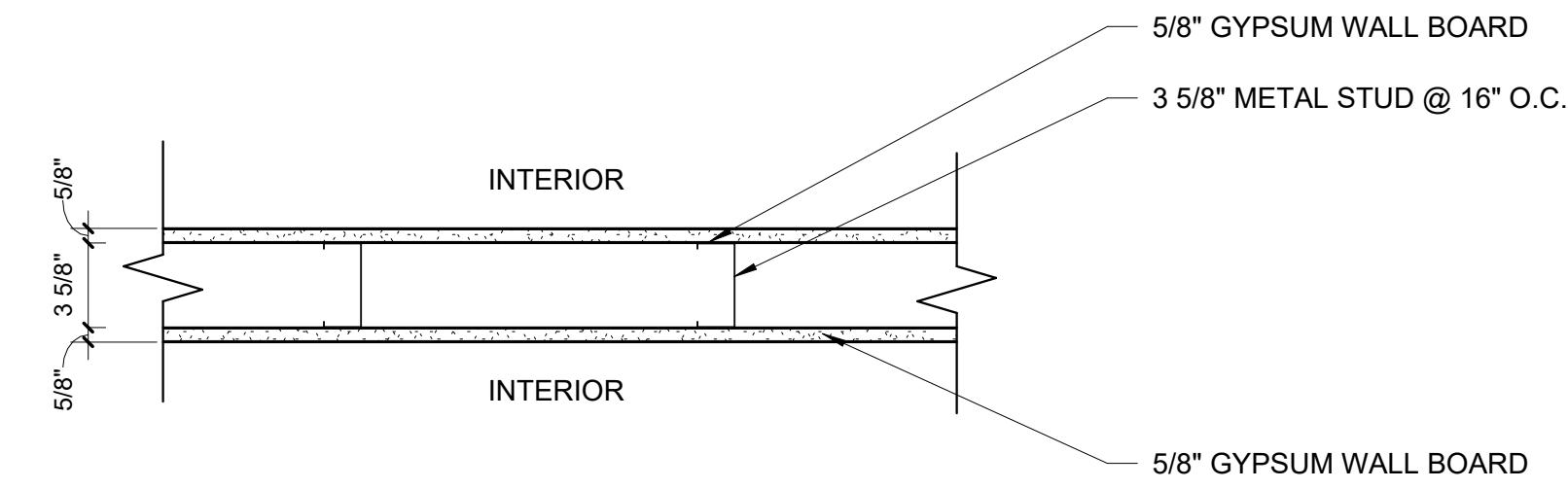
WALL TYPE 2

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



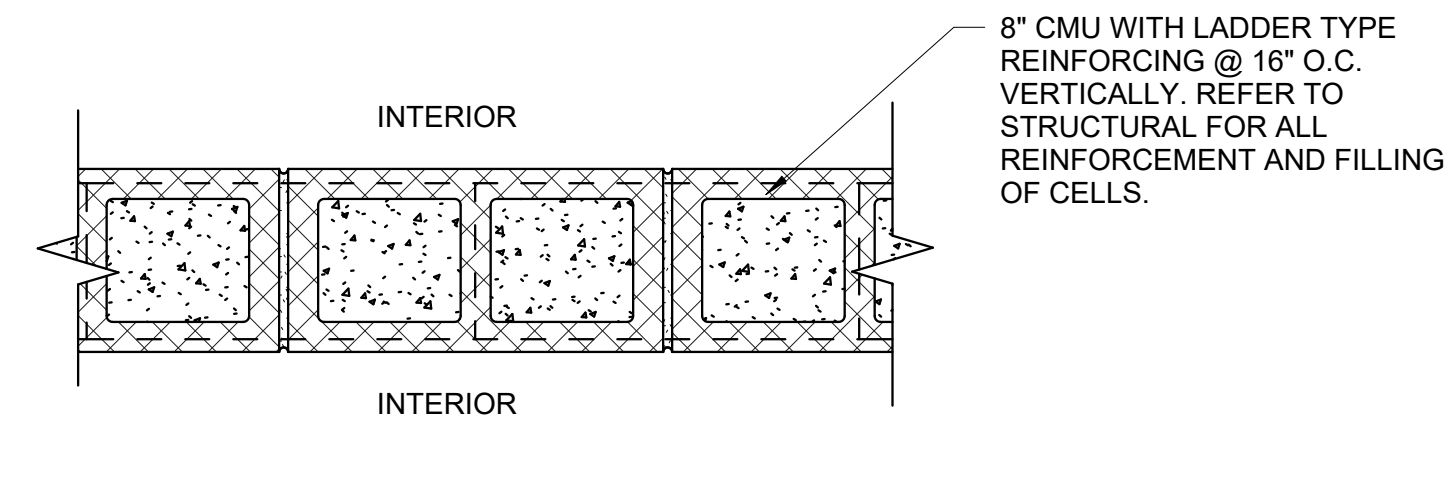
WALL TYPE 3

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



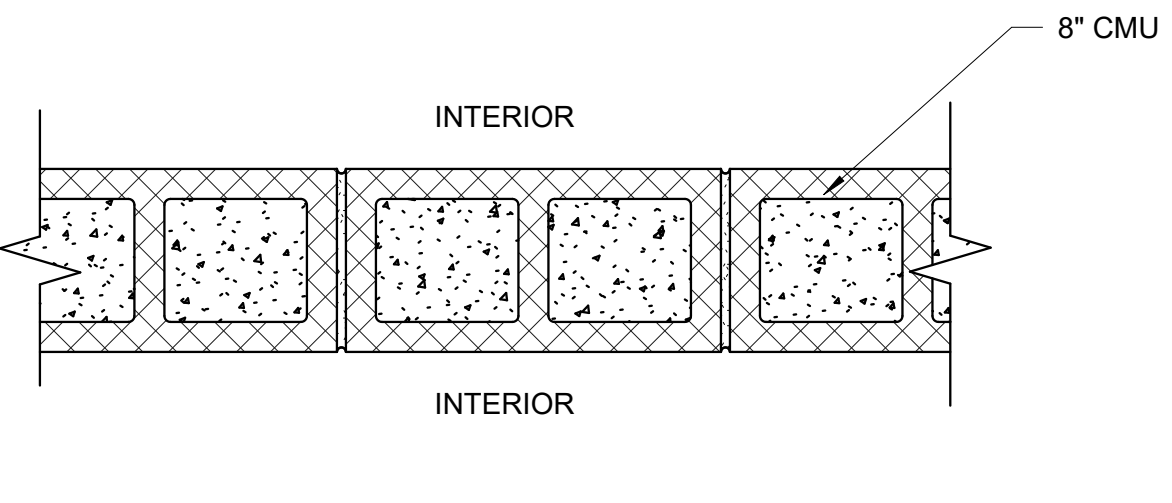
WALL TYPE 4

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



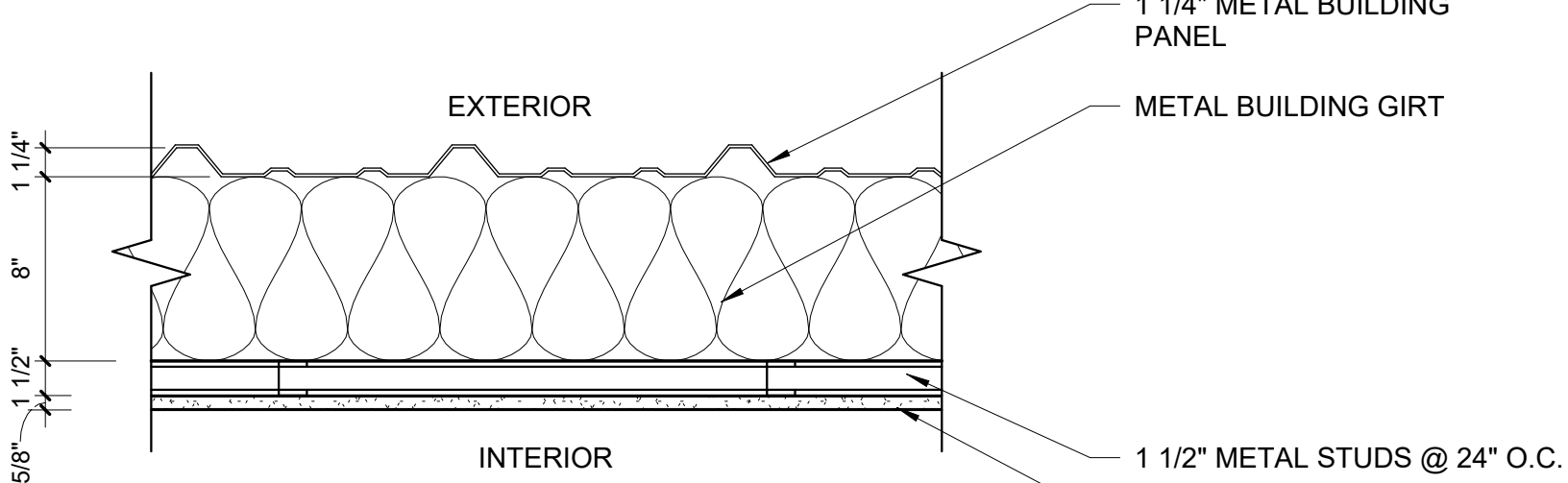
WALL TYPE 5

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



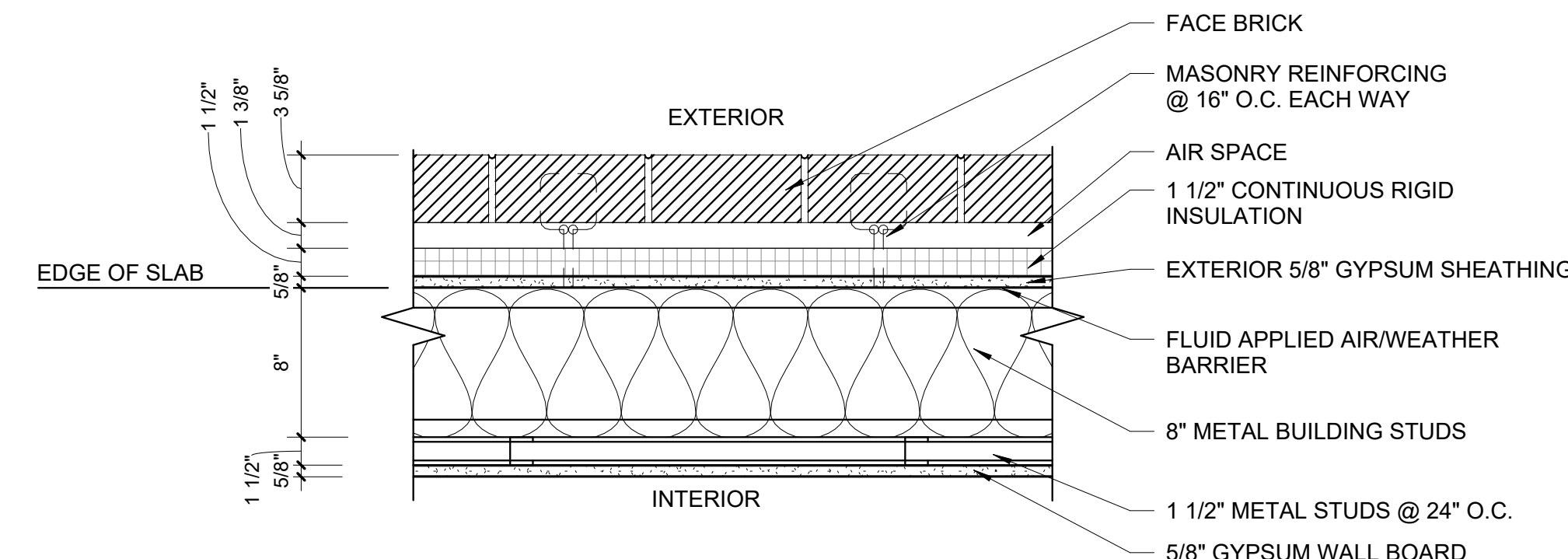
WALL TYPE 6

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



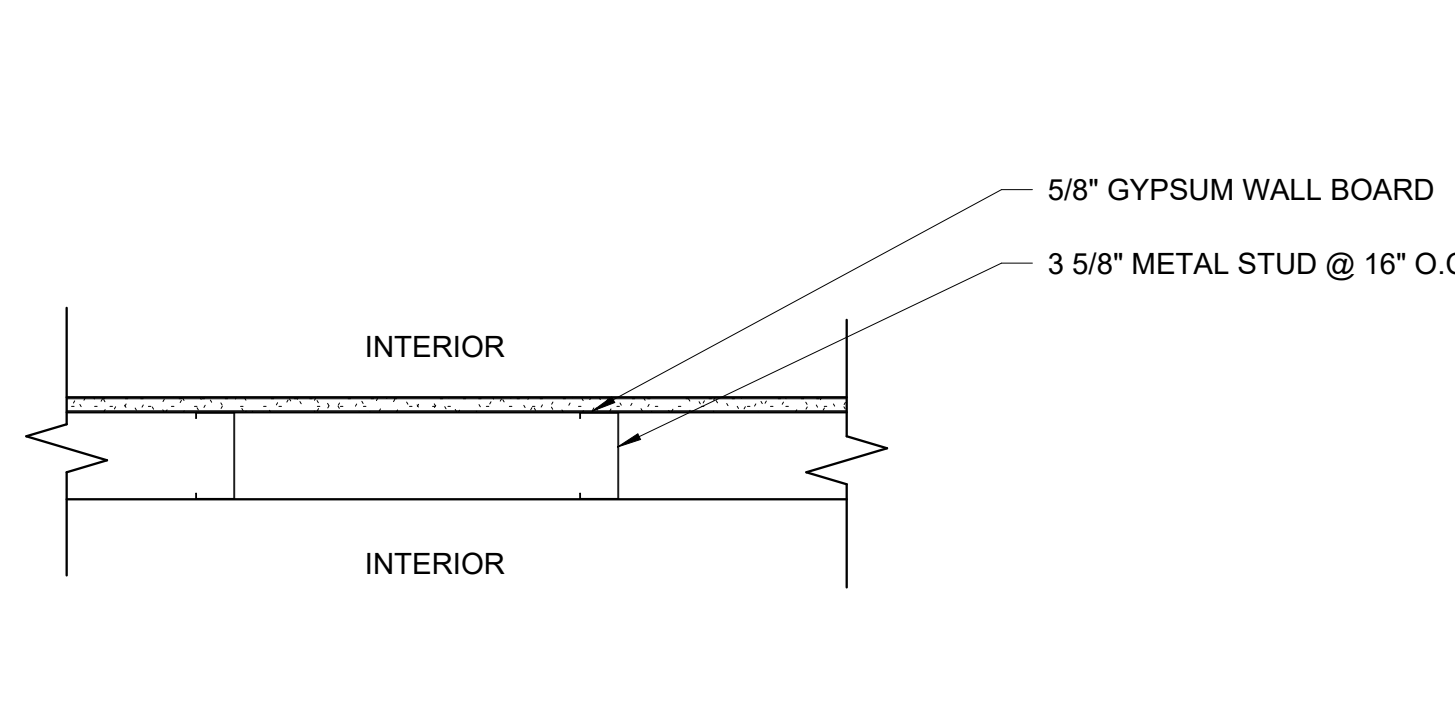
WALL TYPE 7A

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



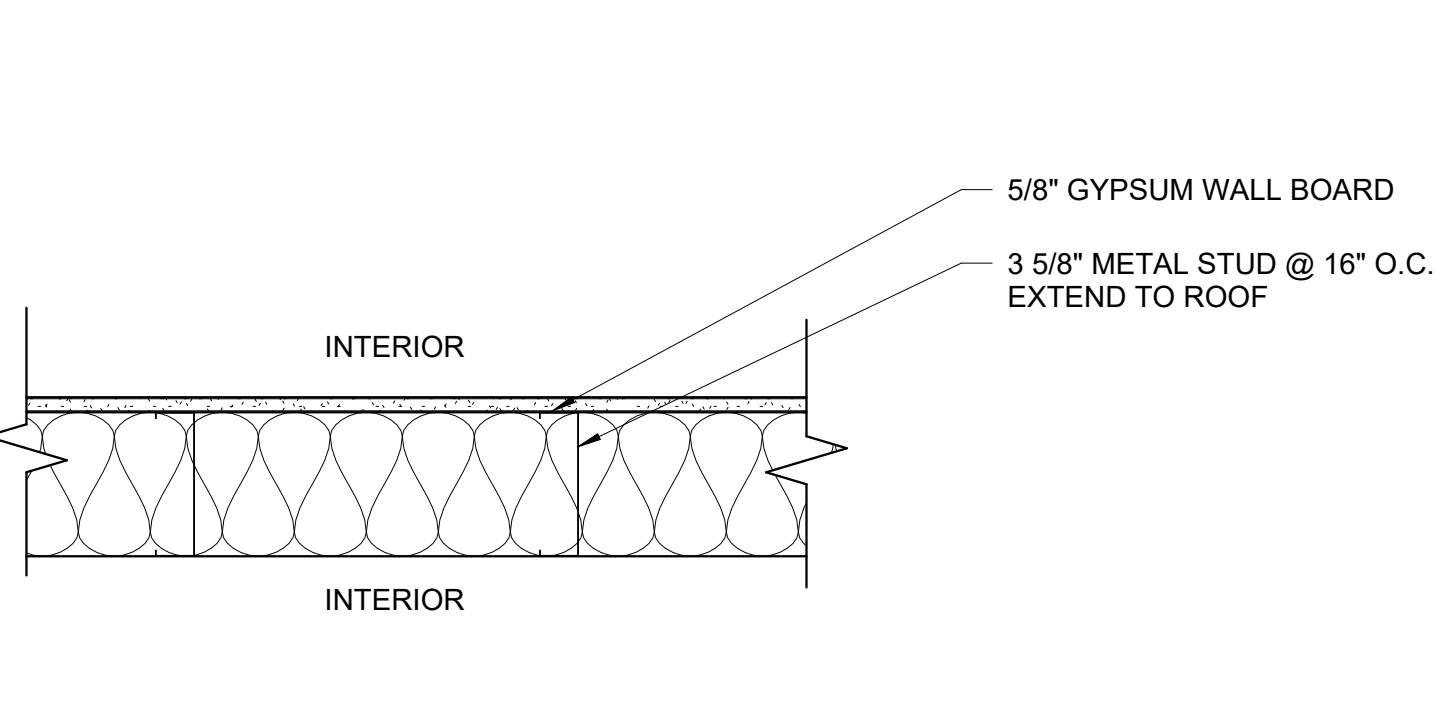
WALL TYPE 7B

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



WALL TYPE 8

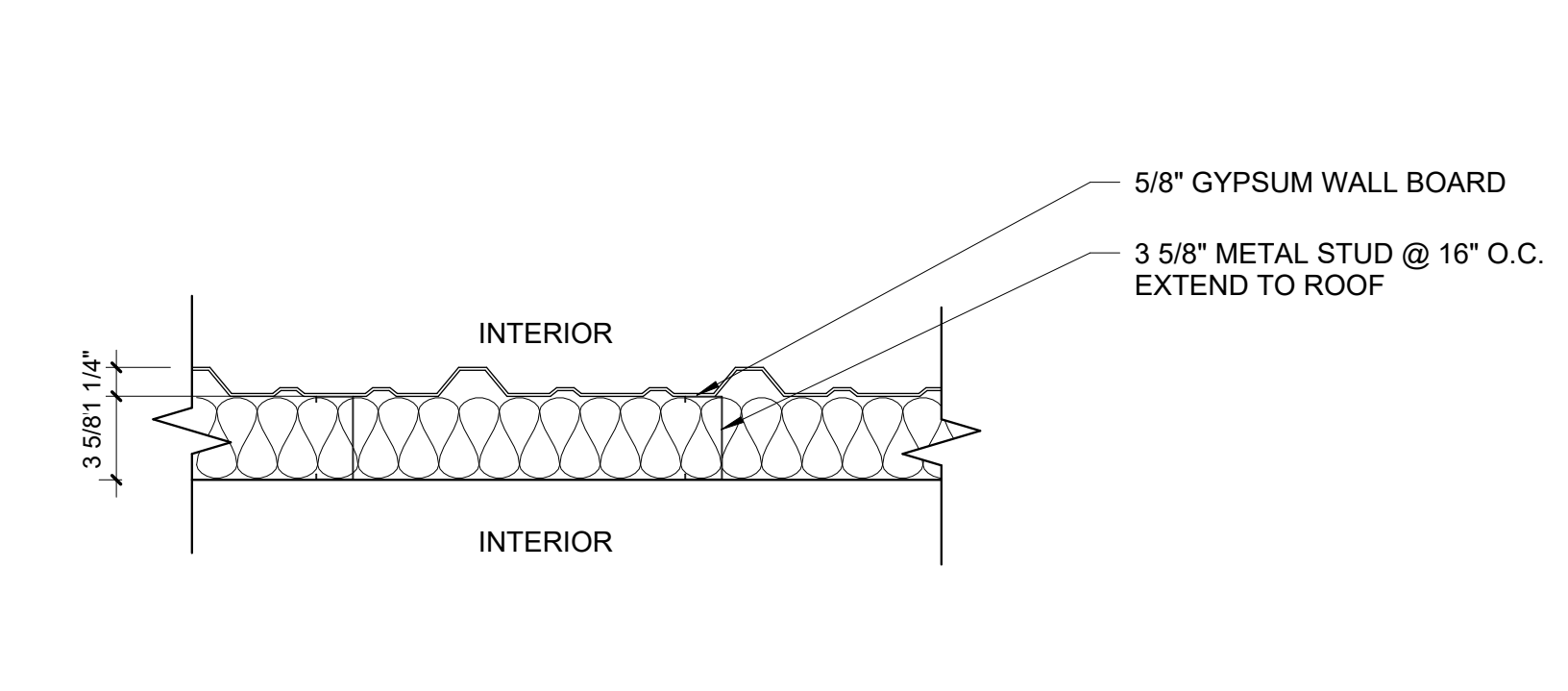
SCALE: 1 1/2" = 1'-0"



WALL TYPE 9

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

NOTE: WALL OCCURS ON TOP OF STORM SHELTER TO CLOSE OFF OFFICES



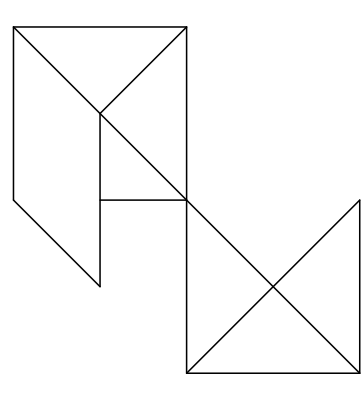
WALL TYPE 10

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

GENERAL NOTES

1. REFER ALSO TO CIVIL AND STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
2. CORRDINATE LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ELECTRICAL WORK

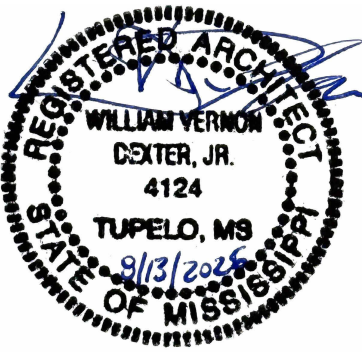
NOTE: SEE ELEVATIONS AND SECTIONS FOR WALL HEIGHTS. SEE ELEVATIONS FOR BRICK COLORS .



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South Tippah School District
Tippah Career & Technology Center Addition
Ripley, Mississippi

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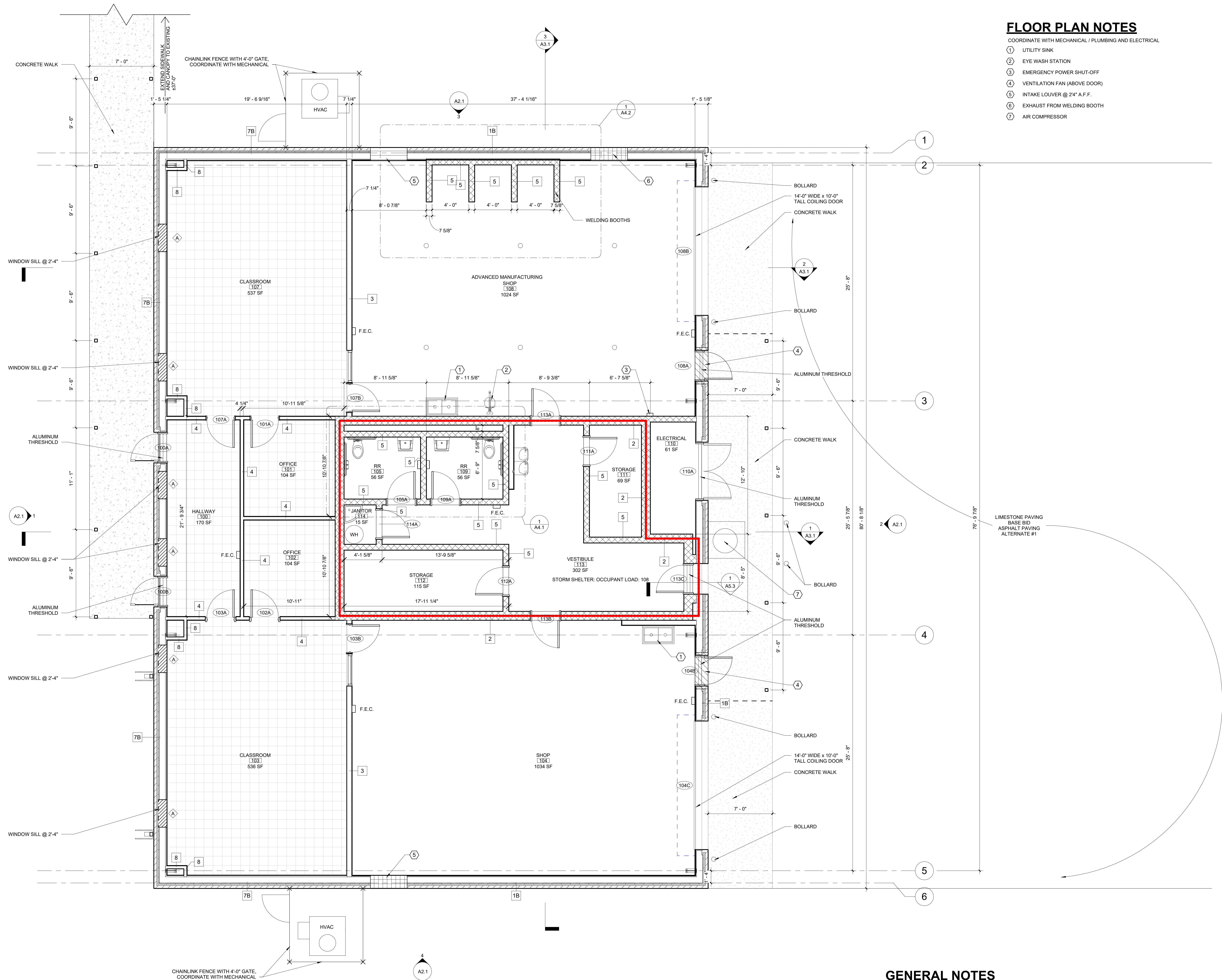
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WALL TYPE LEGEND

A0.1

SCALE: As indicated



FLOOR PLAN NOTES

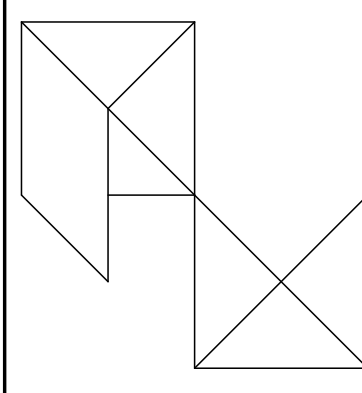
COORDINATE WITH MECHANICAL / PLUMBING AND ELECTRICAL

- UTILITY SINK
- EYE WASH STATION
- EMERGENCY POWER SHUT-OFF
- VENTILATION FAN (ABOVE DOOR)
- INTAKE LOUVER @ 2" A.F.F.
- EXHAUST FROM WELDING BOOTH
- AIR COMPRESSOR

GENERAL NOTES

- REFER ALSO TO CIVIL AND STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
- COORDINATE LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ELECTRICAL WORK

1 FLOOR PLAN
A1.1 1/4" = 1'-0"



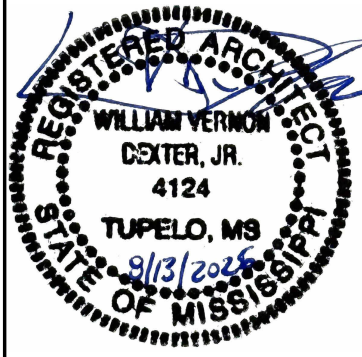
South Tippah School District Tippah Career & Technology Center Addition

Ripley, Mississippi

Description
CONSTRUCTION DOCUMENTS

Date
08/13/2026

Mark
CD



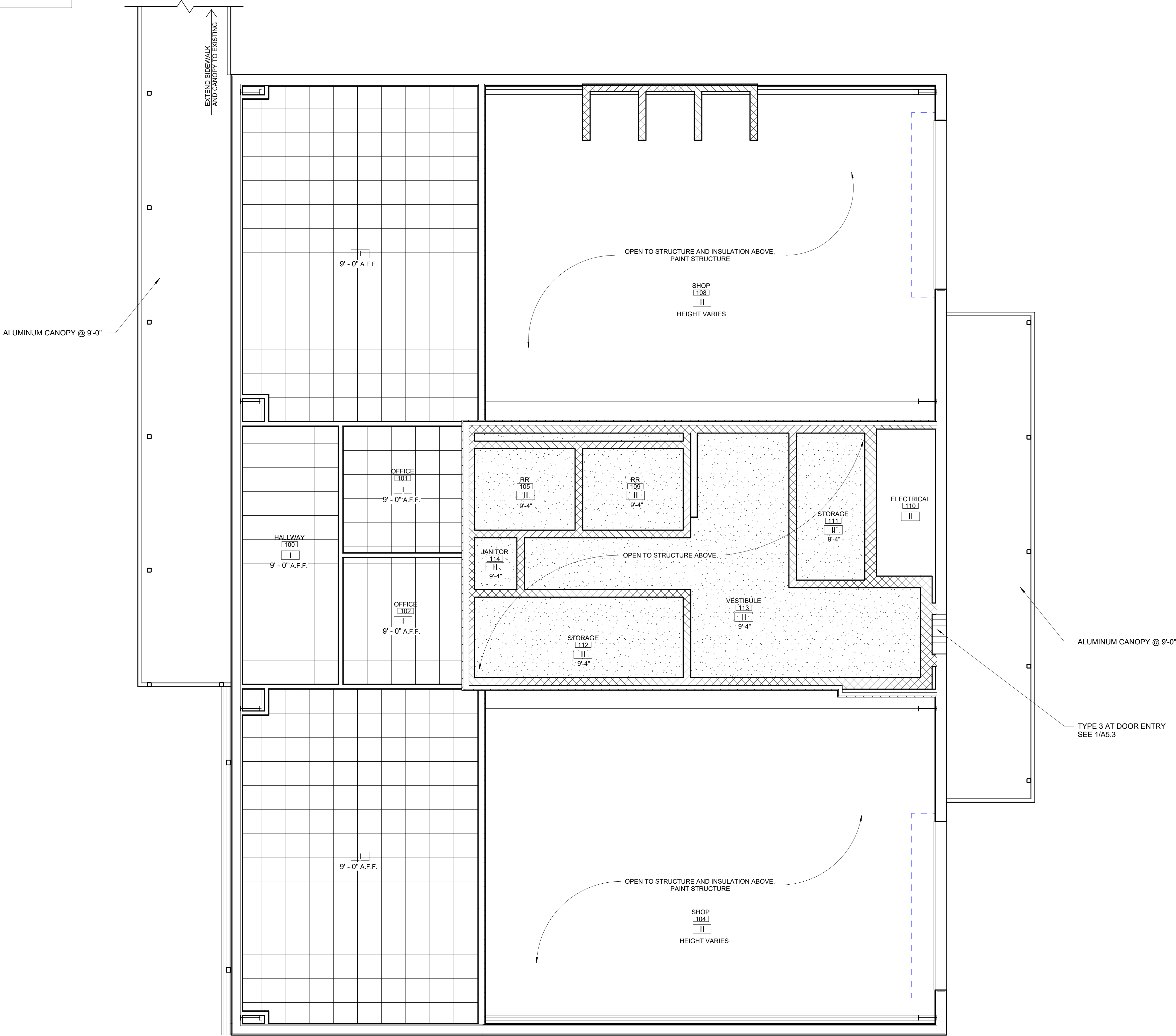
PROJECT NO. 2024520
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FIRST FLOOR PLAN

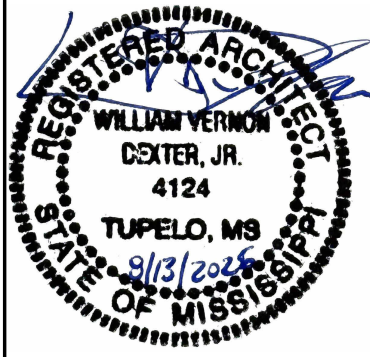
A1.1
SCALE: As indicated

CEILING TYPES	
TYPE I	2' x 2' LAY-IN ACOUSTICAL TILE CEILING
TYPE II	EXPOSED STRUCTURE, PAINTED
TYPE III	METAL PANEL



01 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

Mark	Date	Description
CD	08/13/2026	CONSTRUCTION DOCUMENTS



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1. ALL DOWNSPOUTS SHALL TERMINATE ON TOP OF THE CANOPY OR AT THE GROUND WITH SPLASH BLOCKS.
2. CORRORDINATE LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ELECTRICAL WORK



South Tippah School District
Tippah Career & Technology Center Addition
Ripley, Mississippi

REGISTERED ARCHITECT
WILLIAM VERNON
CESTER, JR.
4124
TUPELO, MS
9/13/2026
STATE OF MISSISSIPPI

PROJECT NO.	2024520
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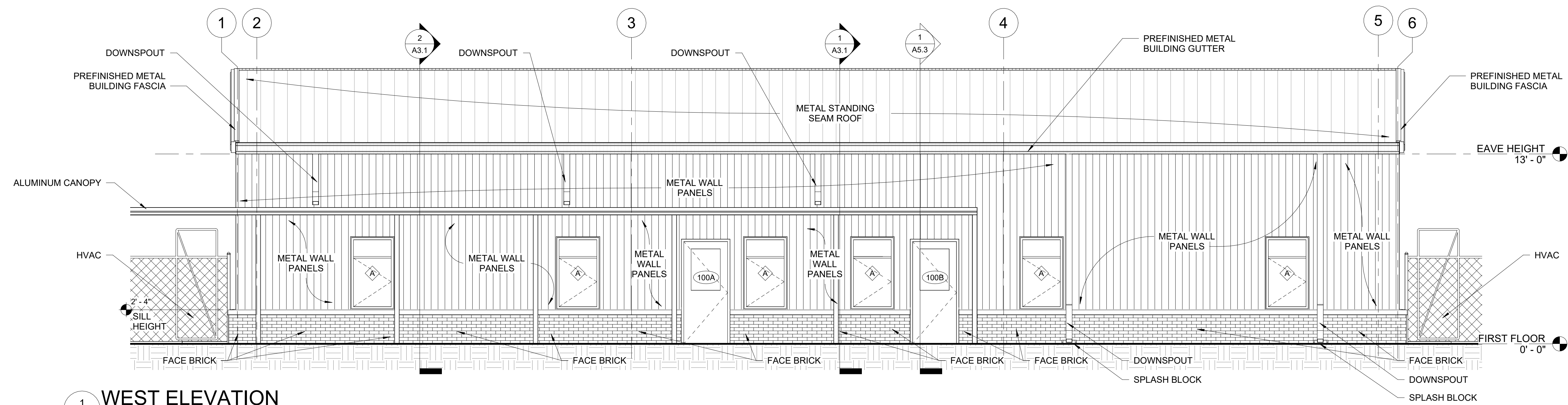
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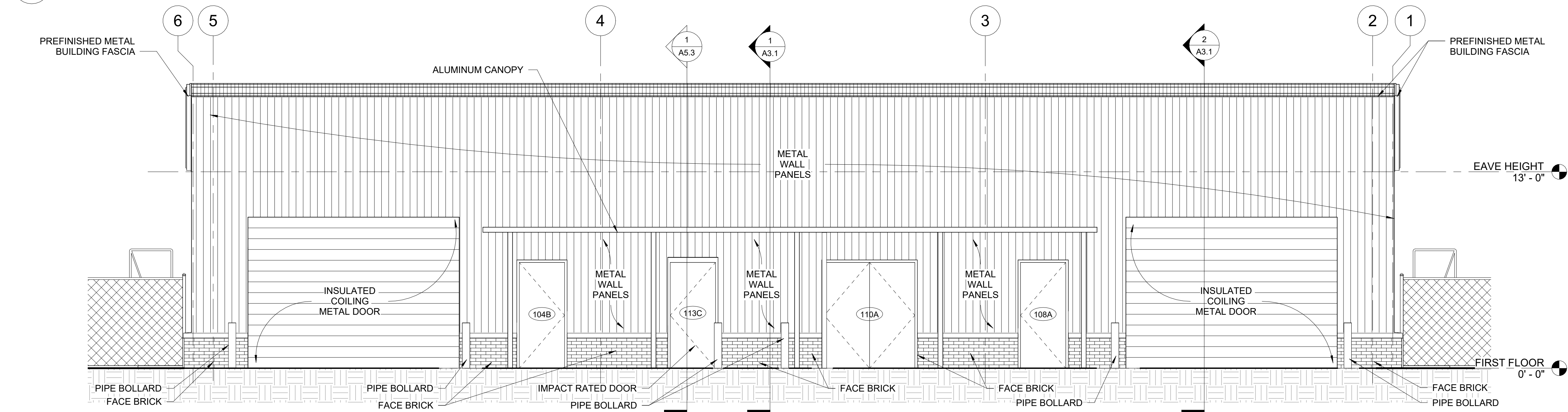
ROOF PLAN

A1.3

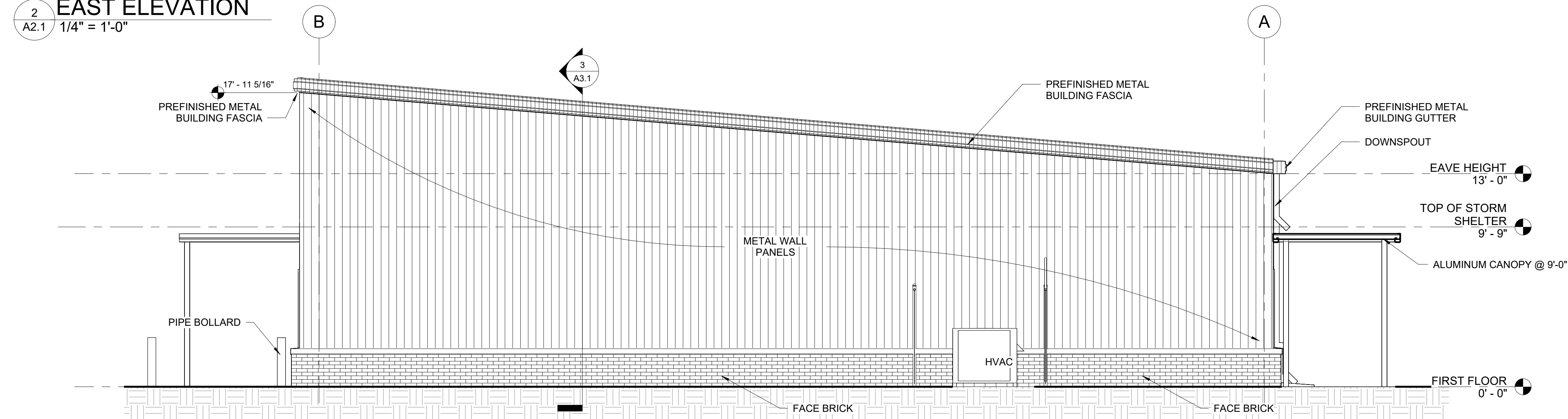
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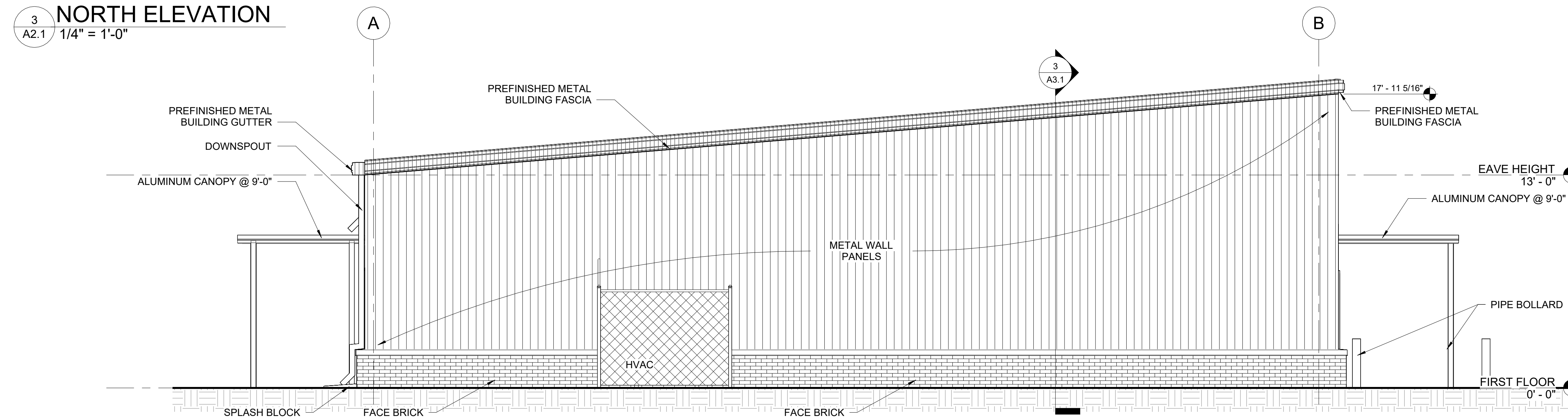
1
A2.1
WEST ELEVATION
1/4" = 1'-0"



2
A2.1
EAST ELEVATION
1/4" = 1'-0"



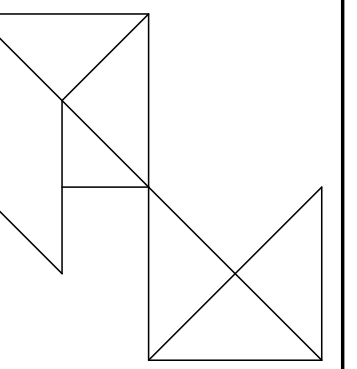
3
A2.1
NORTH ELEVATION
1/4" = 1'-0"



4
A2.1
SOUTH ELEVATION
1/4" = 1'-0"

GENERAL NOTES

1. REFER ALSO TO CIVIL AND STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
2. CORRDINATE LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ELECTRICAL WORK



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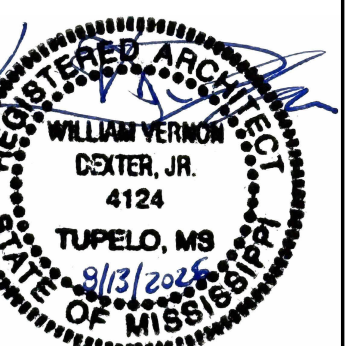
South Tippah School District Tippah Career & Technology Center Addition

Ripley, Mississippi

Description
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08/13/2026

Mark
CD



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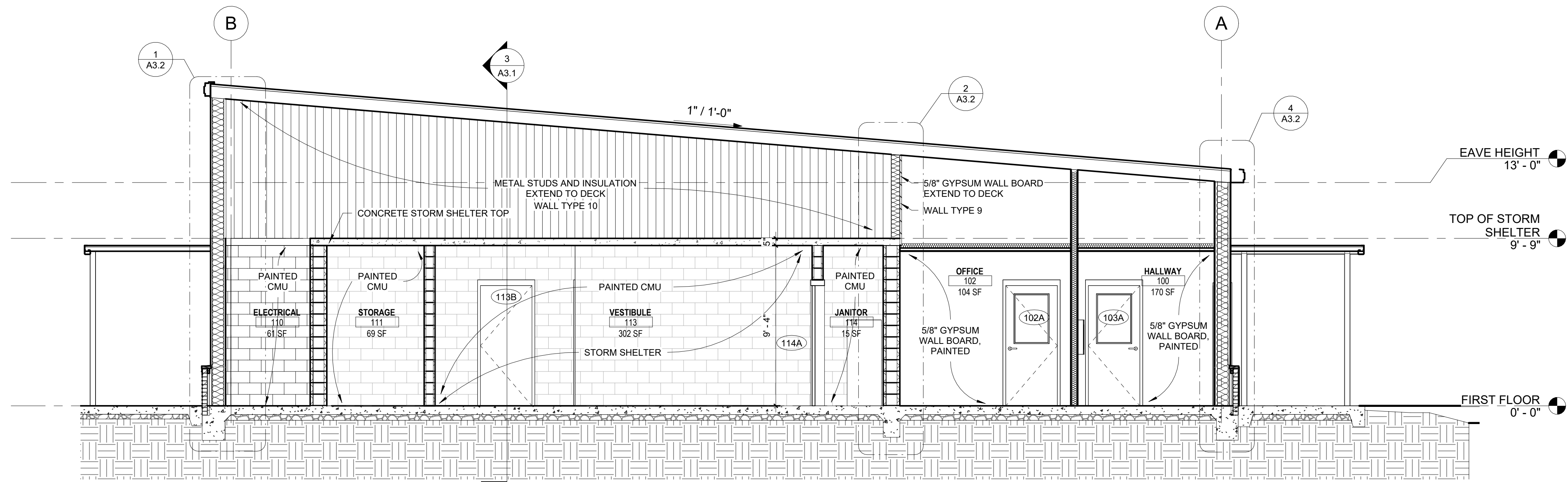
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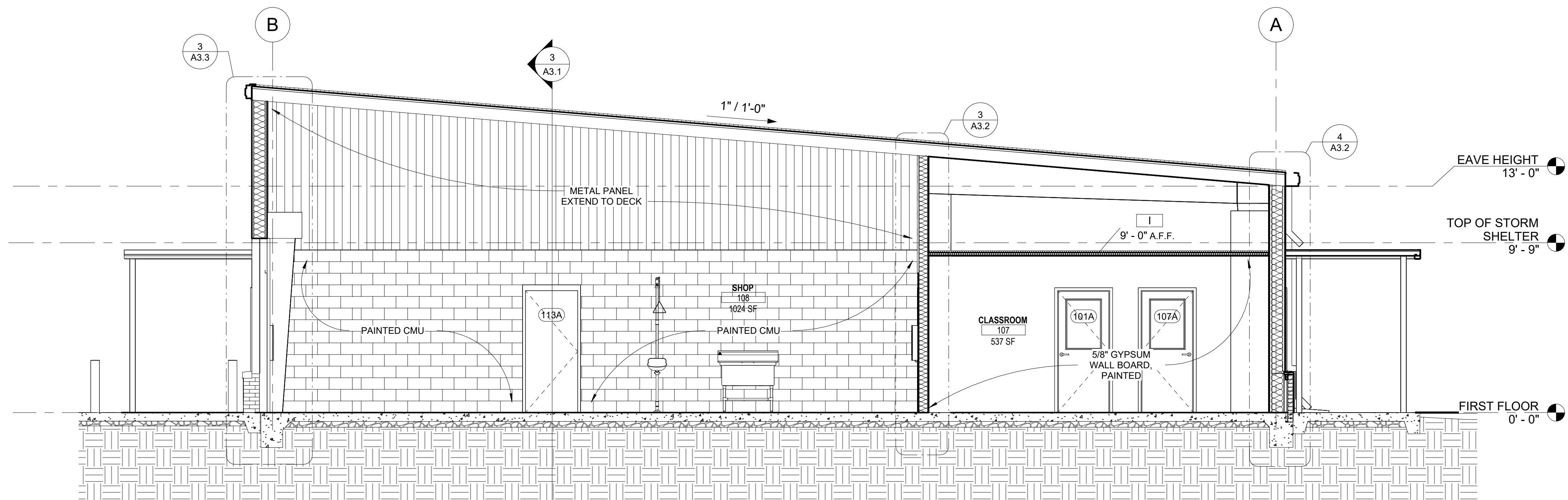
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EXTERIOR BUILDING
ELEVATIONS

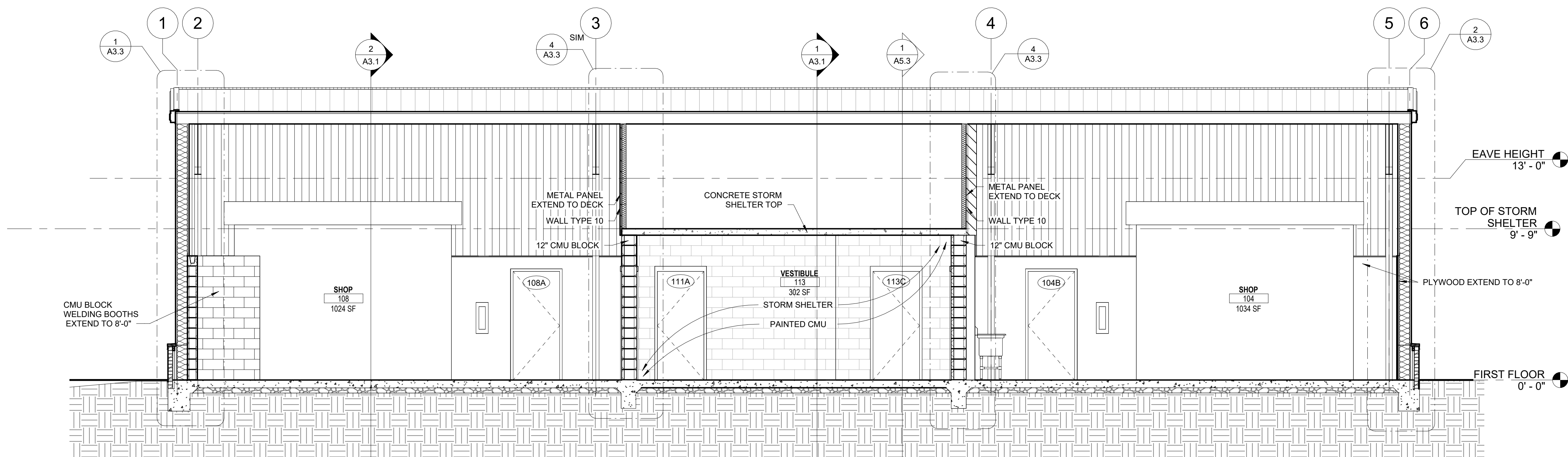
A2.1
SCALE: As indicated



BUILDING SECTION 1
1/4" = 1'-0"

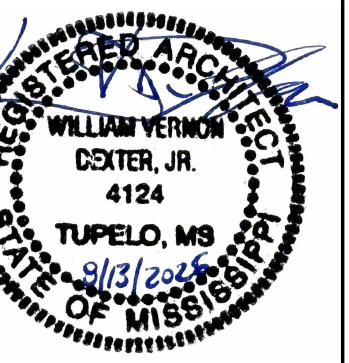


BUILDING SECTION 2
1/4" = 1'-0"



BUILDING SECTION 3
1/4" = 1'-0"

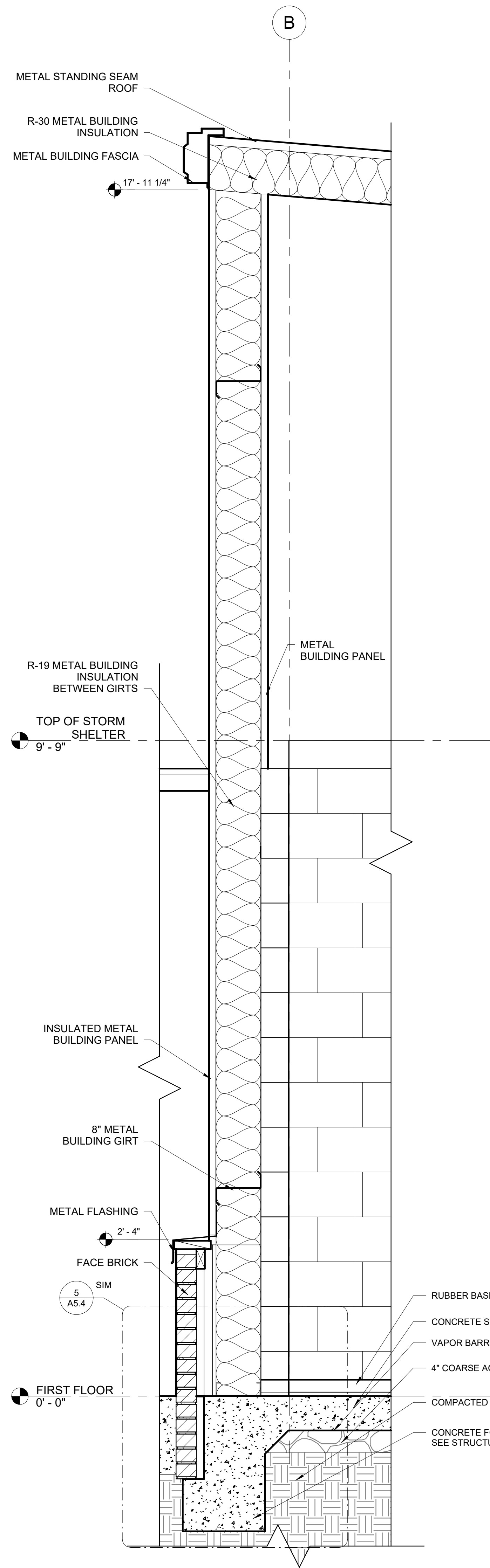
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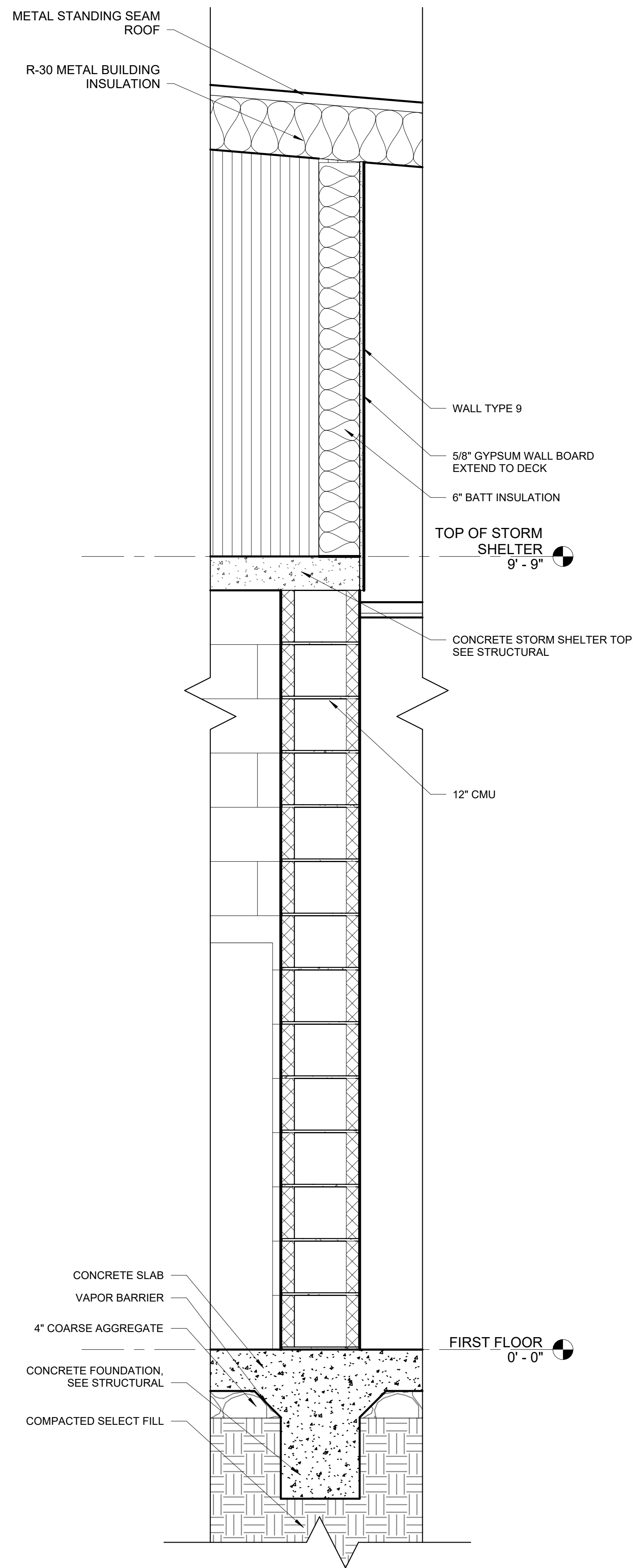
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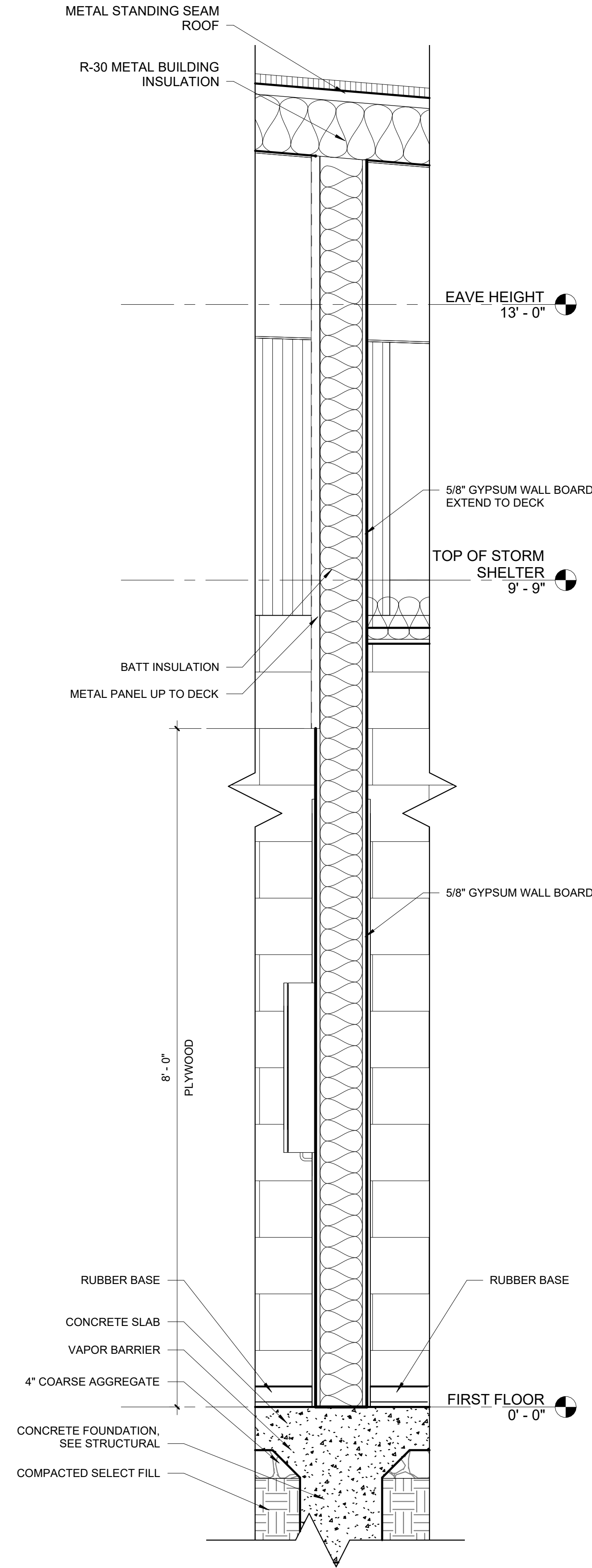
BUILDING SECTIONS



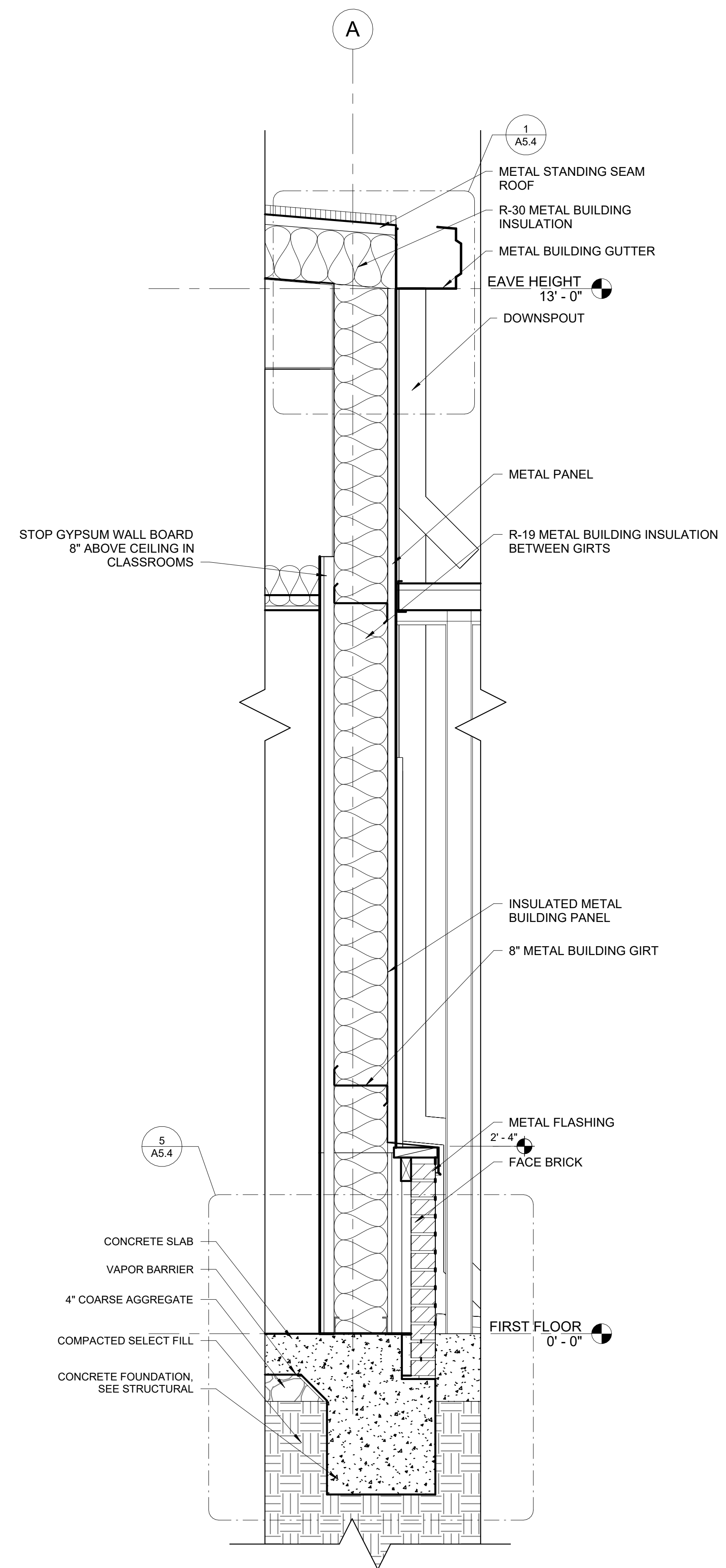
1 WALL SECTION 1
A3.2 1" = 1'-0"



2 WALL SECTION 2
A3.2 1" = 1'-0"

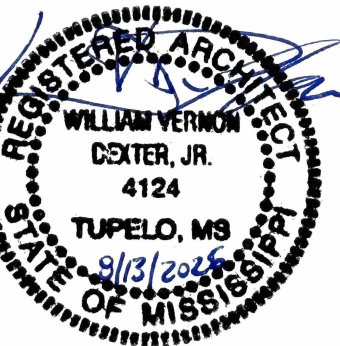


3 WALL SECTION 3
A3.2 1" = 1'-0"



4 WALL SECTION 4
A3.2 1" = 1'-0"

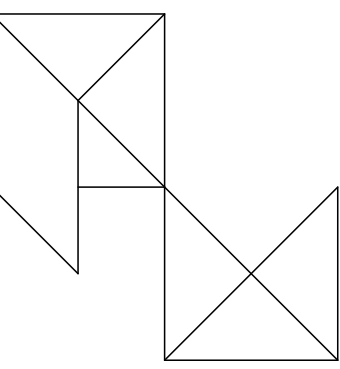
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WALL SECTIONS



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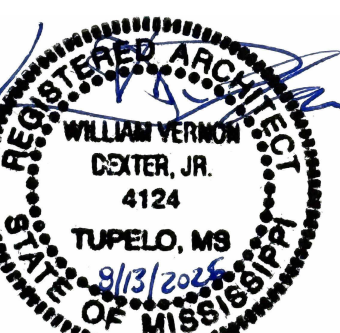
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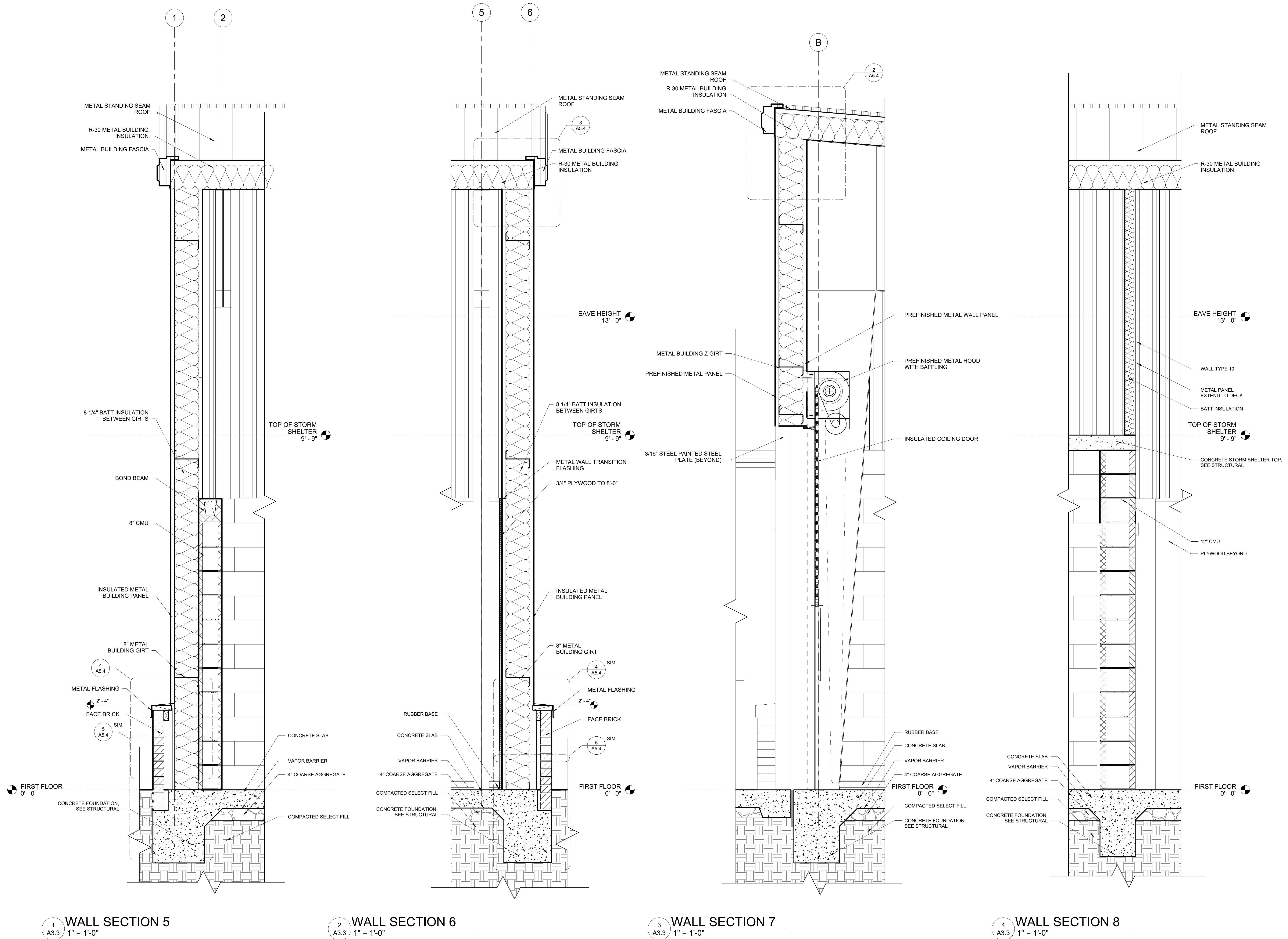
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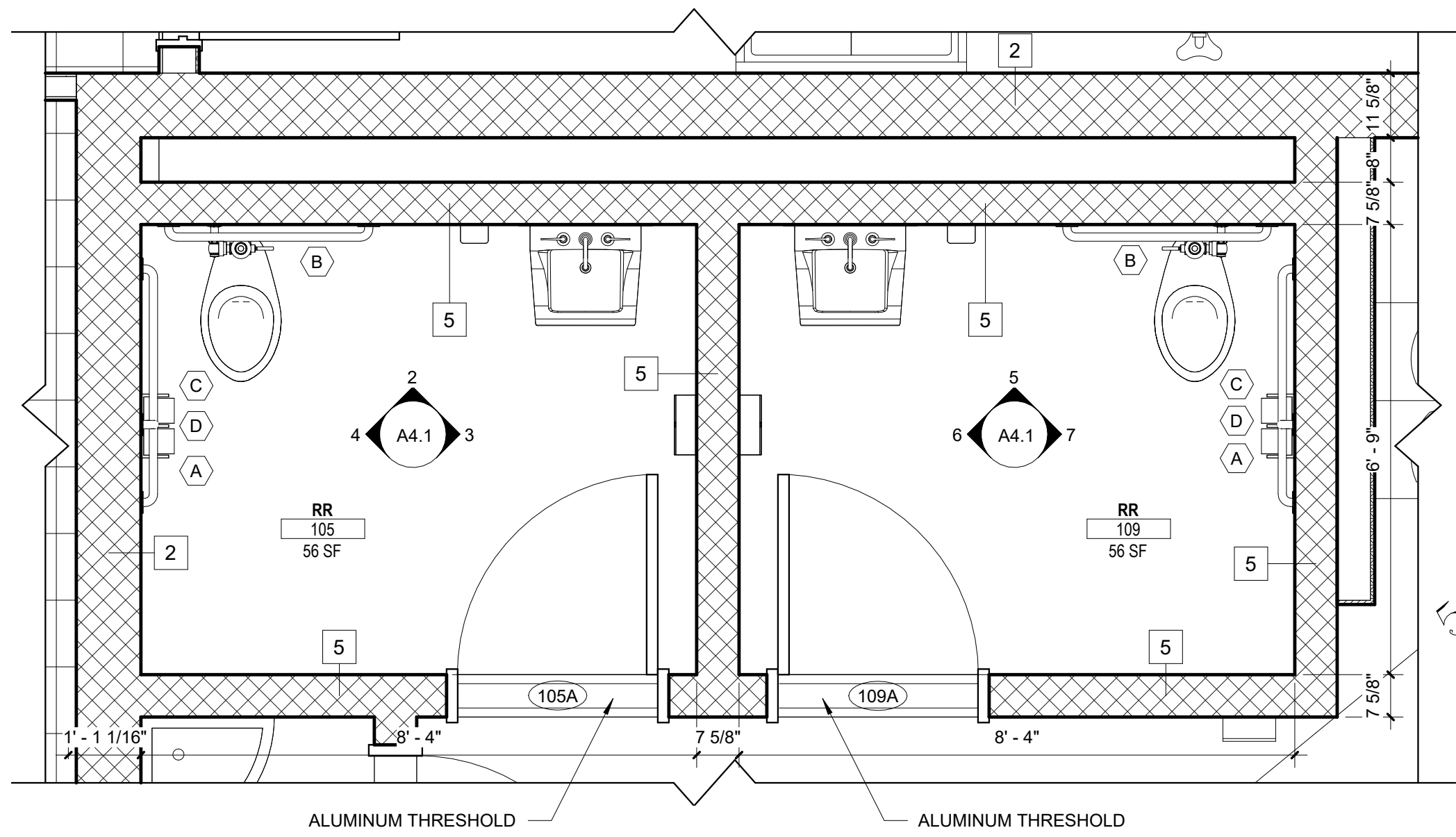
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WALL SECTIONS

A3.3

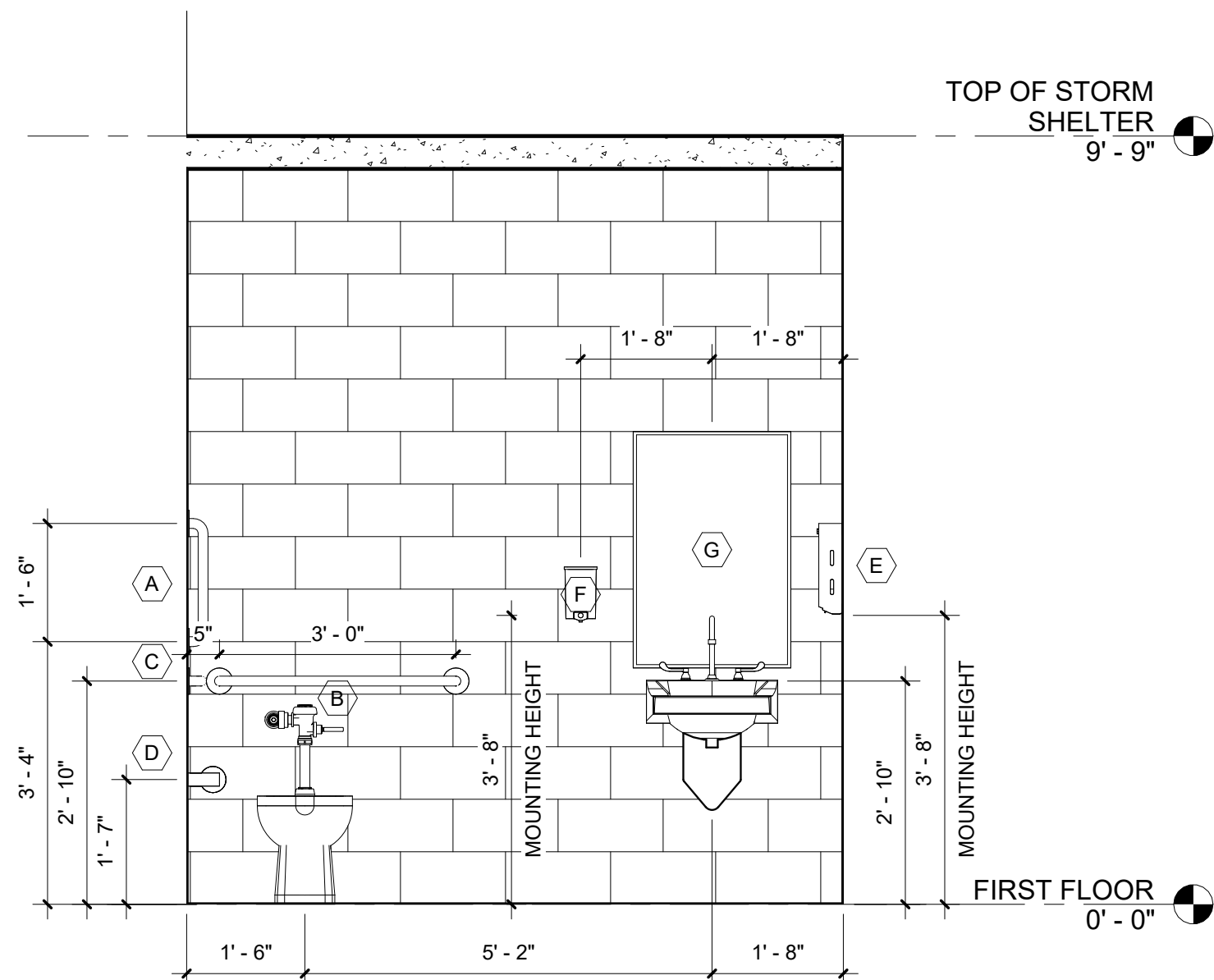
SCALE: 1" = 1'-0"



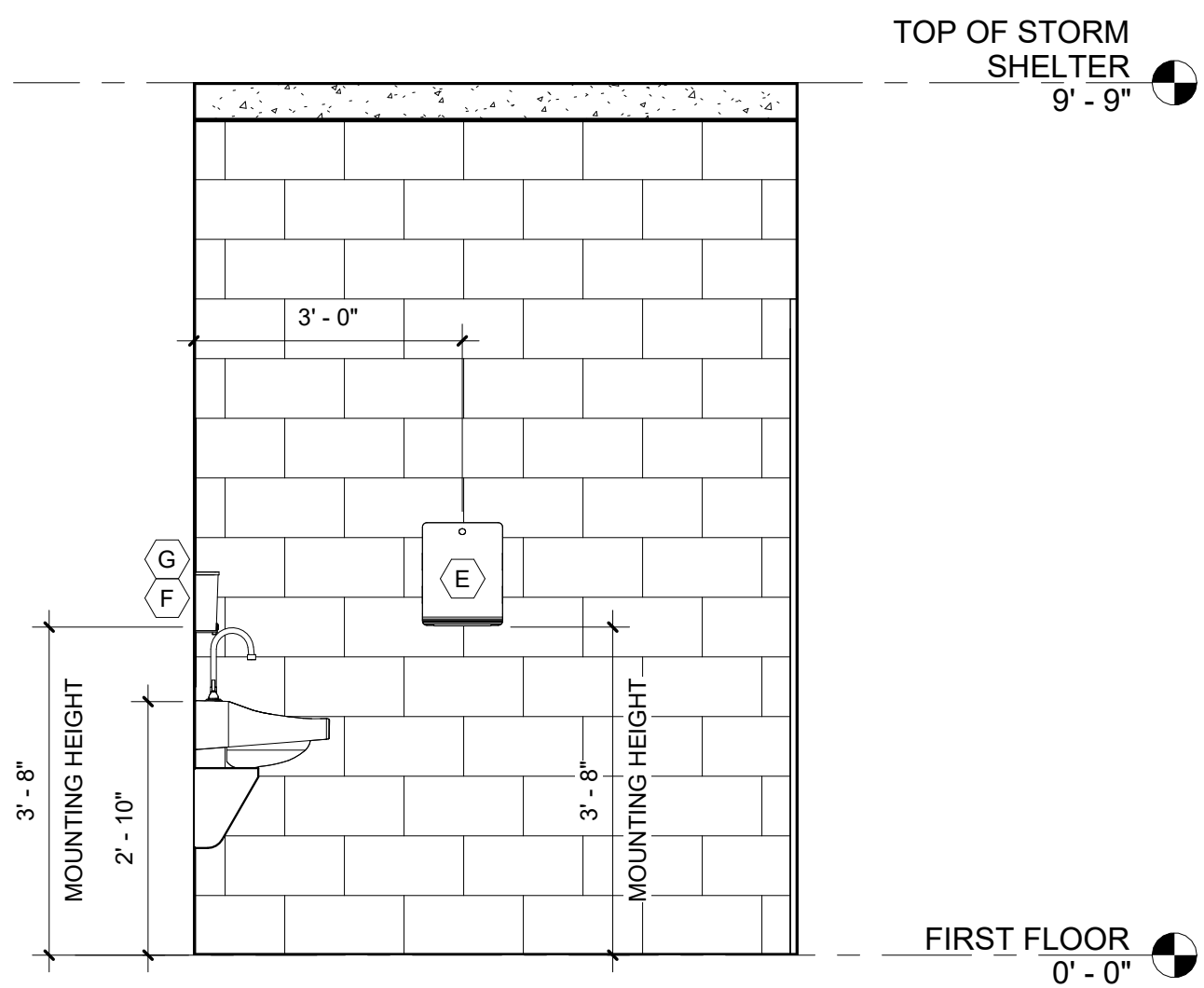


ACCESSORY LEGEND	
A	18" GRAB BAR
B	36" GRAB BAR
C	42" GRAB BAR
D	TOILET PAPER DISPENSER, BY OWNER
E	PAPER TOWEL DISPENSER, BY OWNER
F	SOAP DISPENSER, BY OWNER
G	2'-0" X 3'-0" MIRROR

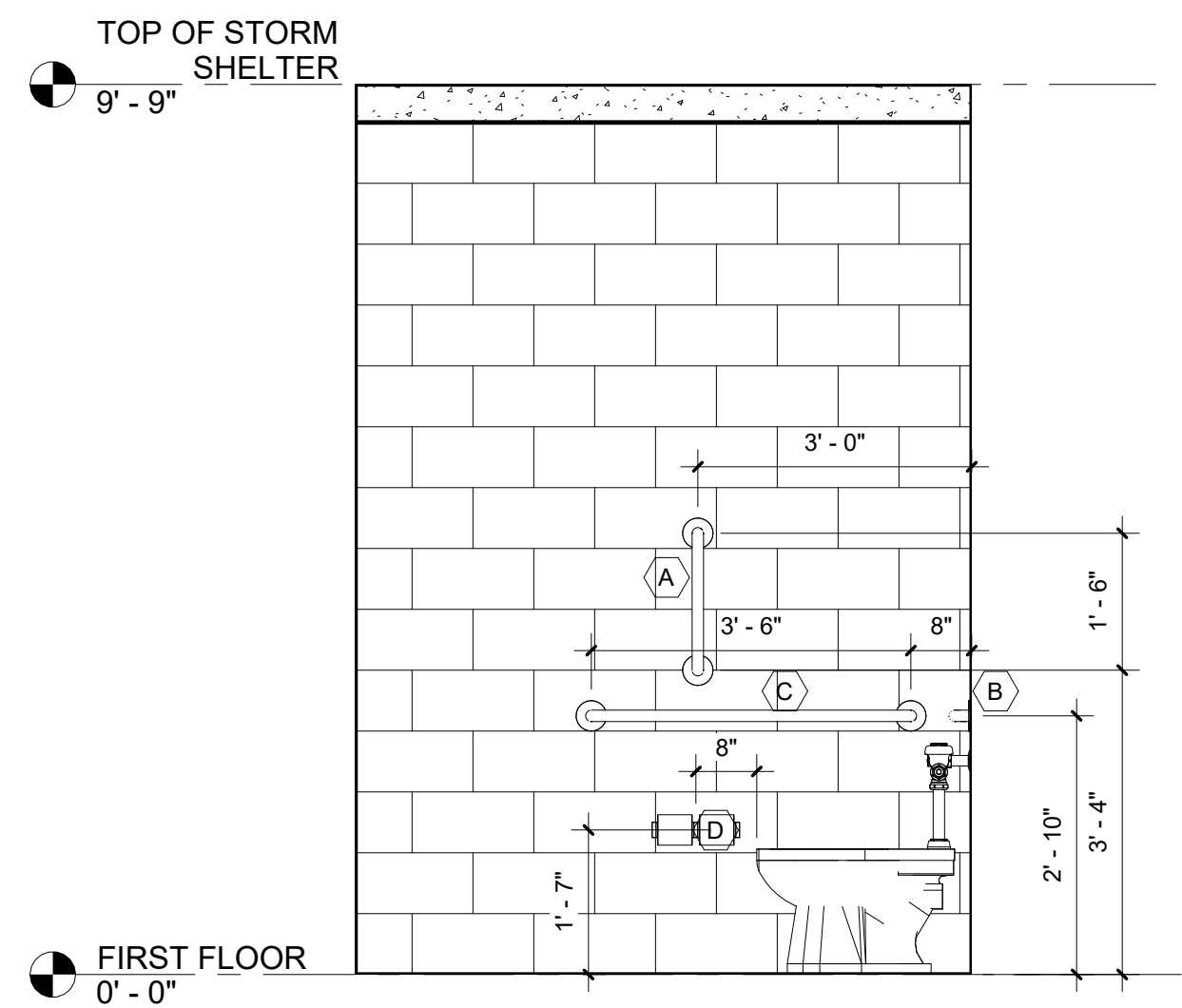
1
A4.1
ENLARGED FLOOR PLAN - RR 105 & RR 109
1/2" = 1'-0"



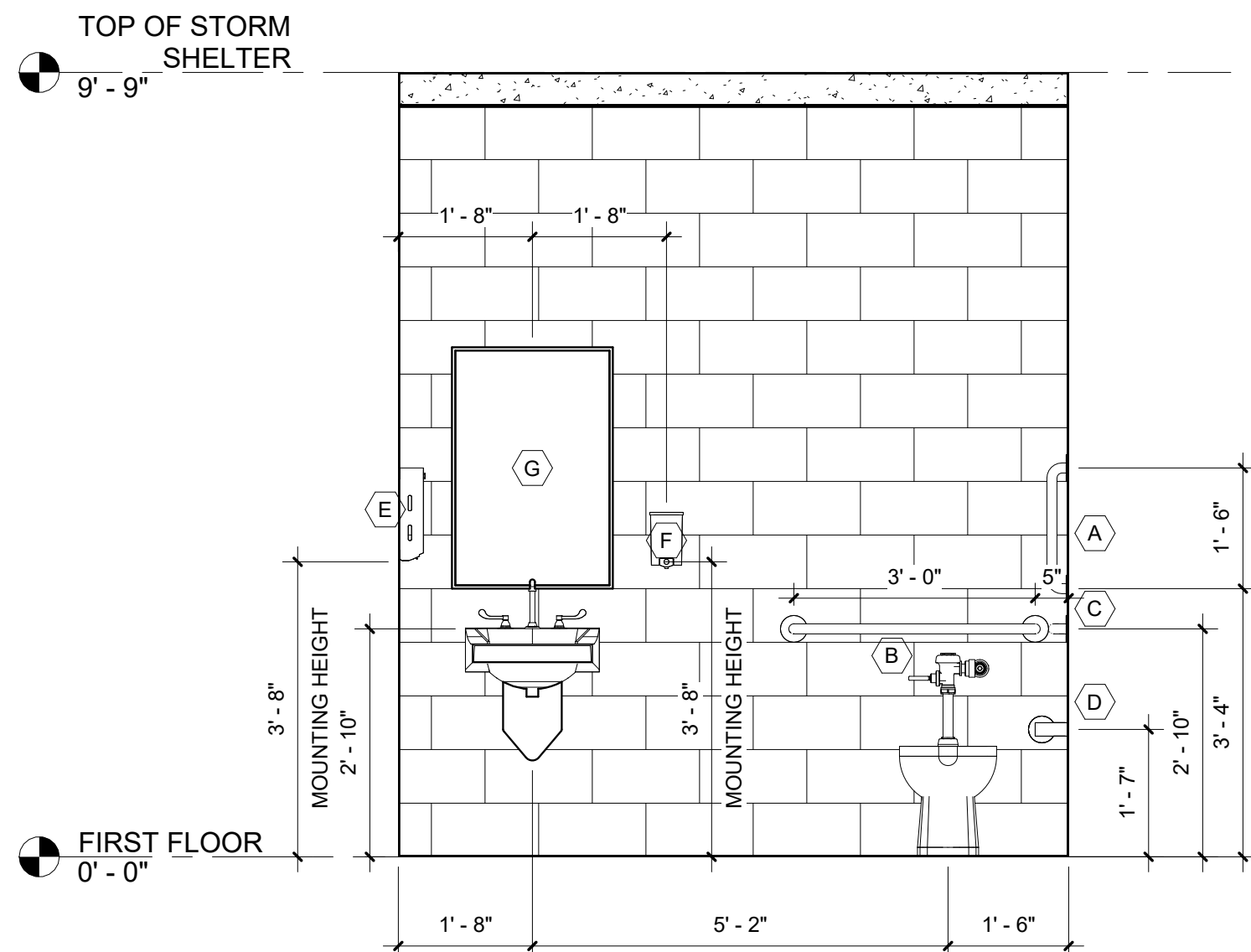
2
A4.1
RR 105 - INTERIOR ELEVATION A
1/2" = 1'-0"



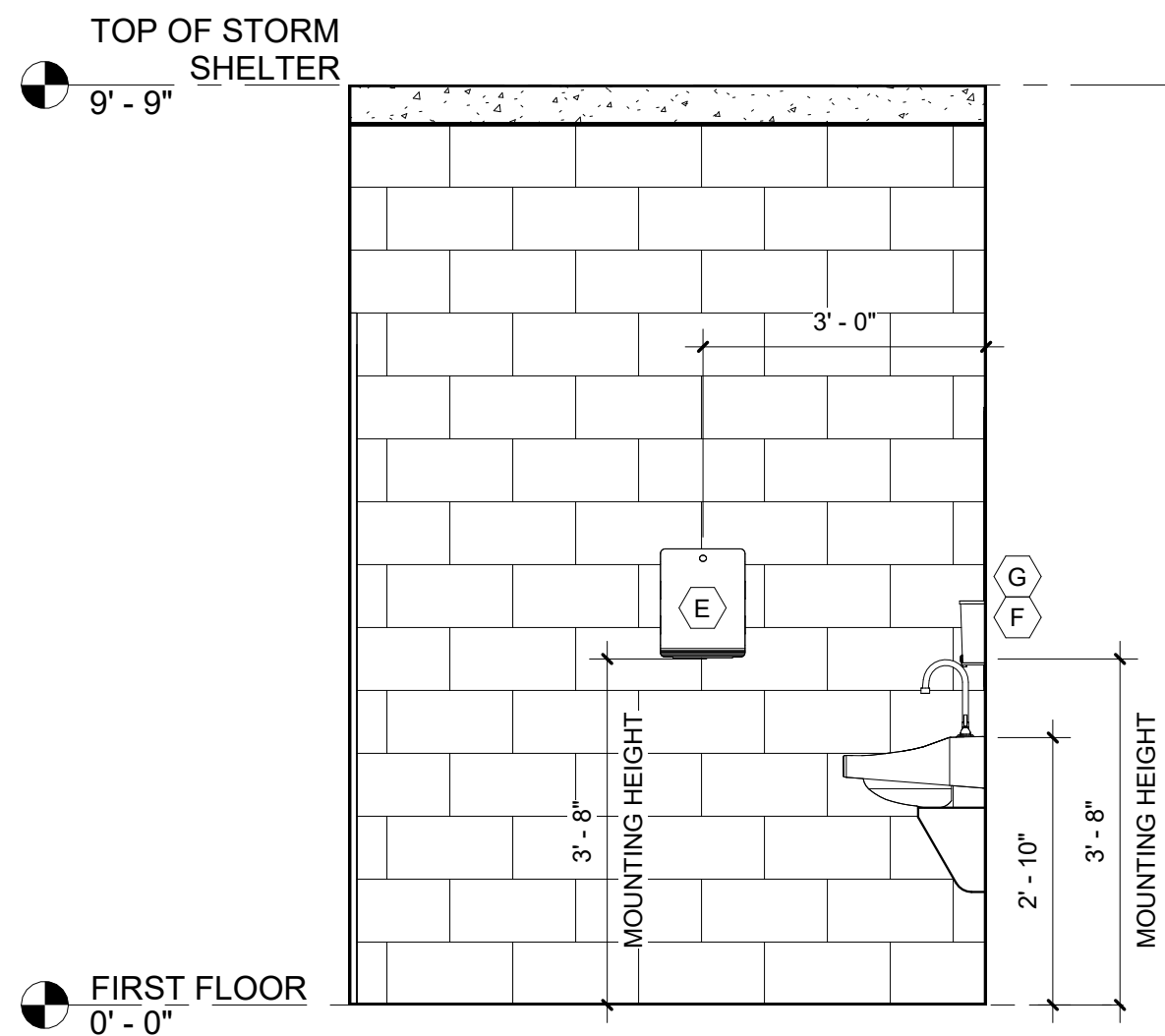
3
A4.1
RR 105 - INTERIOR ELEVATION B
1/2" = 1'-0"



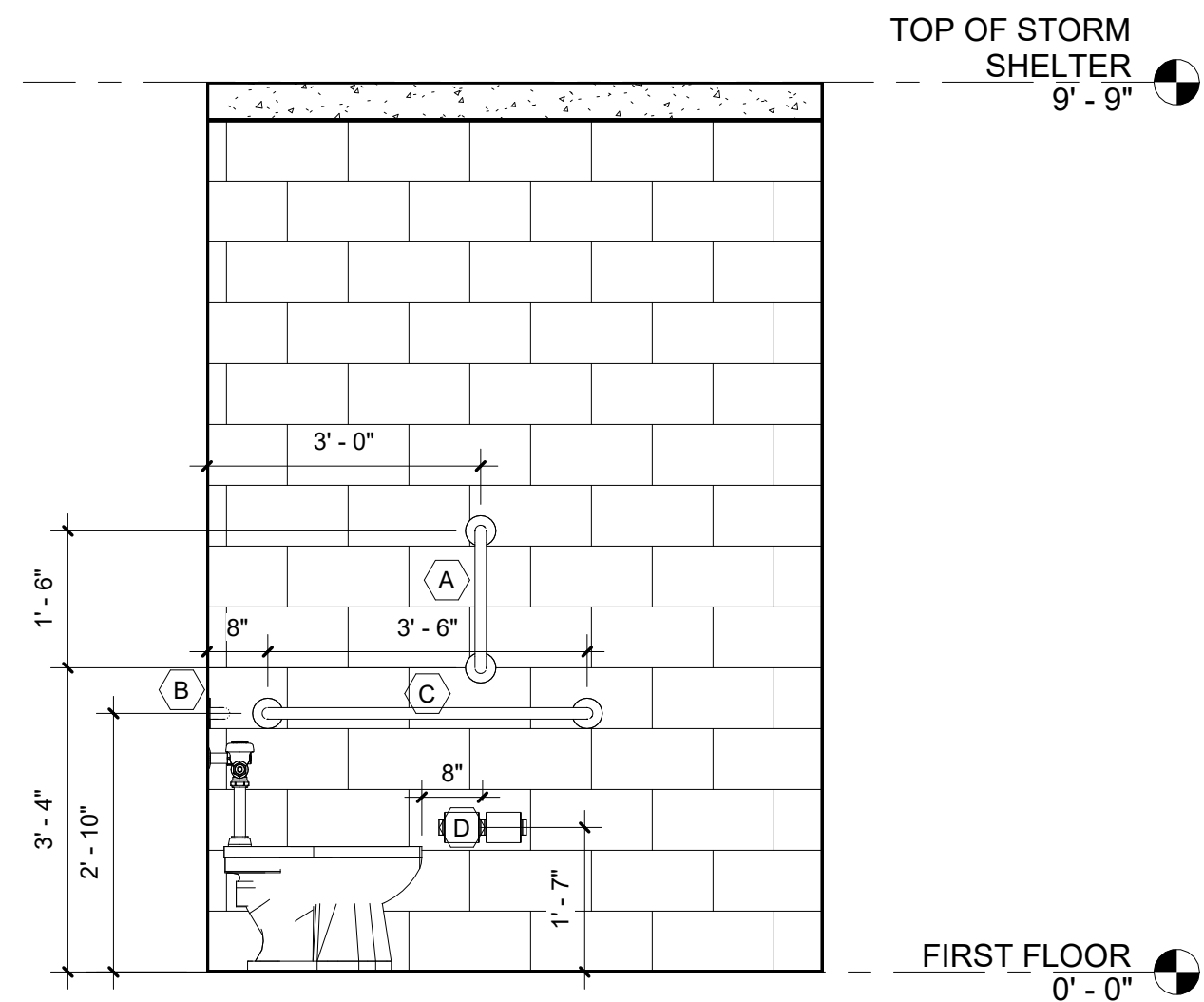
4
A4.1
RR 105 - INTERIOR ELEVATION C
1/2" = 1'-0"



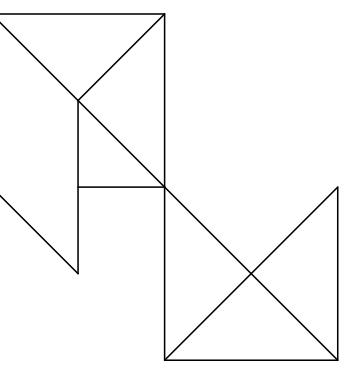
5
A4.1
RR 109 - INTERIOR ELEVATION A
1/2" = 1'-0"



6
A4.1
RR 109 - INTERIOR ELEVATION B
1/2" = 1'-0"



7
A4.1
RR 109 - INTERIOR ELEVATION C
1/2" = 1'-0"

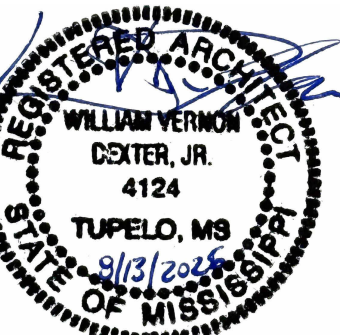


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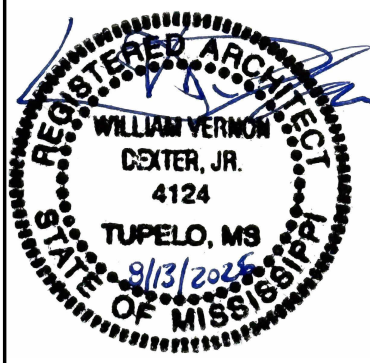
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ENLARGED FLOOR PLANS
AND INTERIOR
ELEVATIONS

A4.1
SCALE: As indicated

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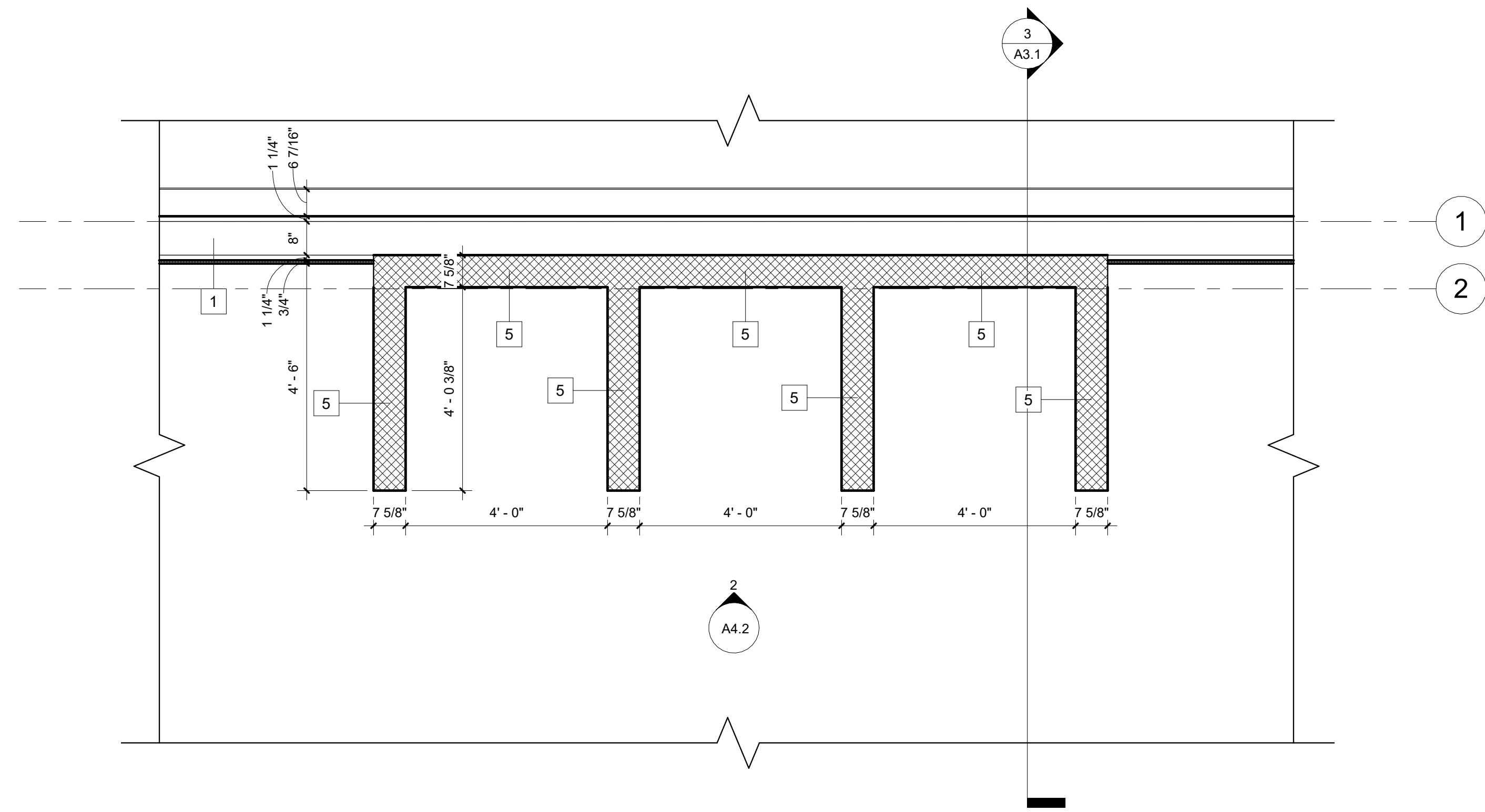


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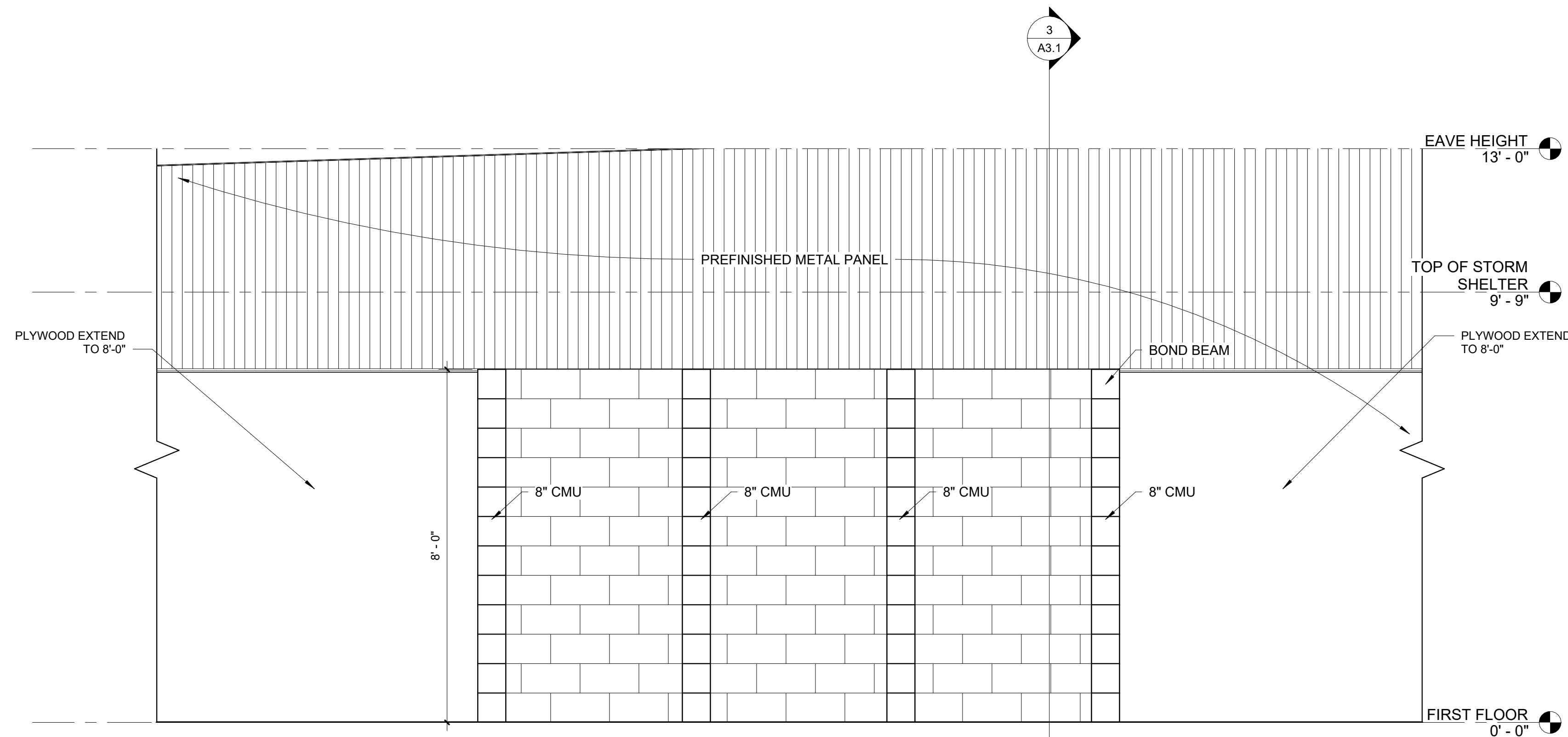
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INTERIOR ELEVATIONS

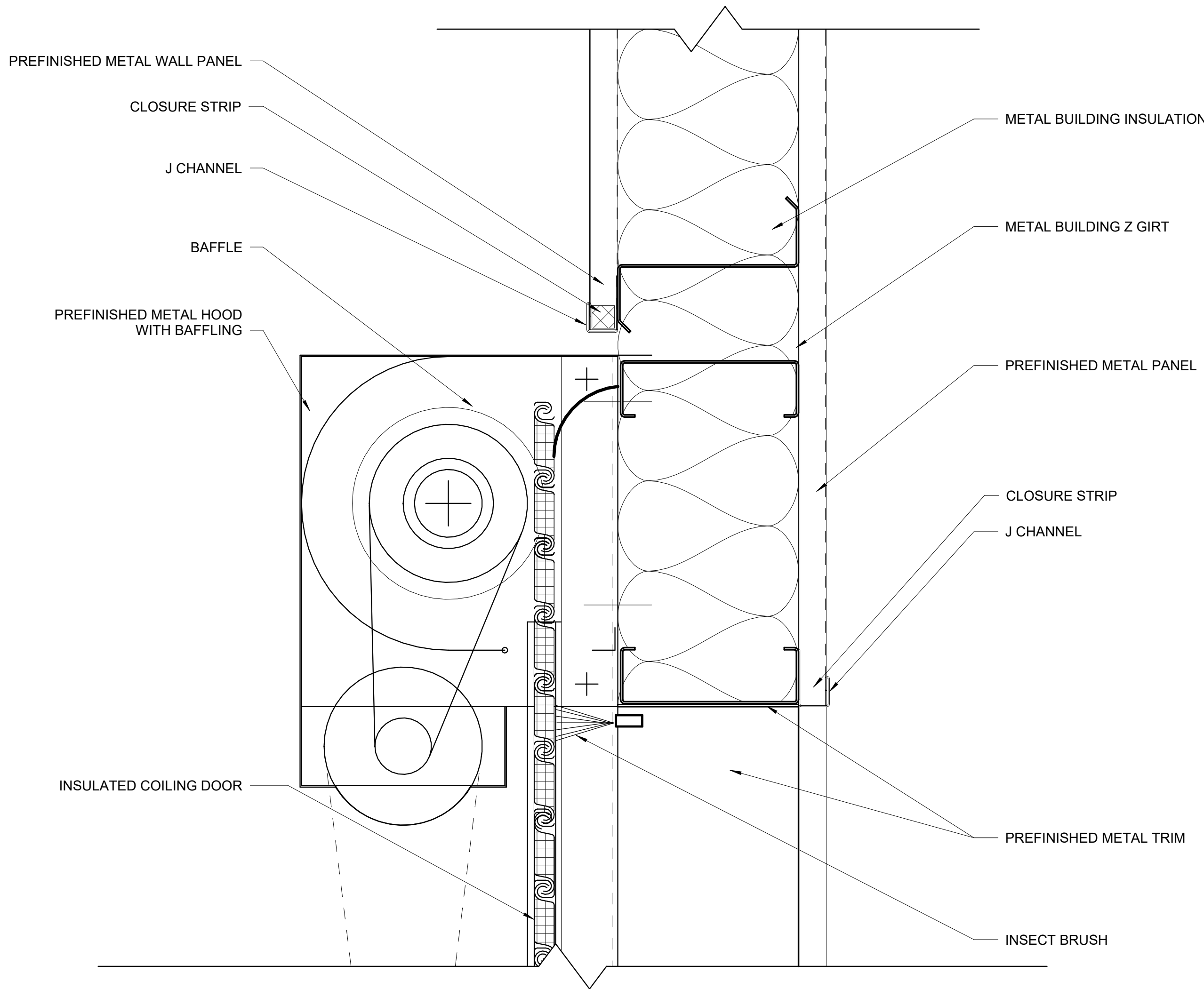
A4.2
SCALE: 1/2" = 1'-0"



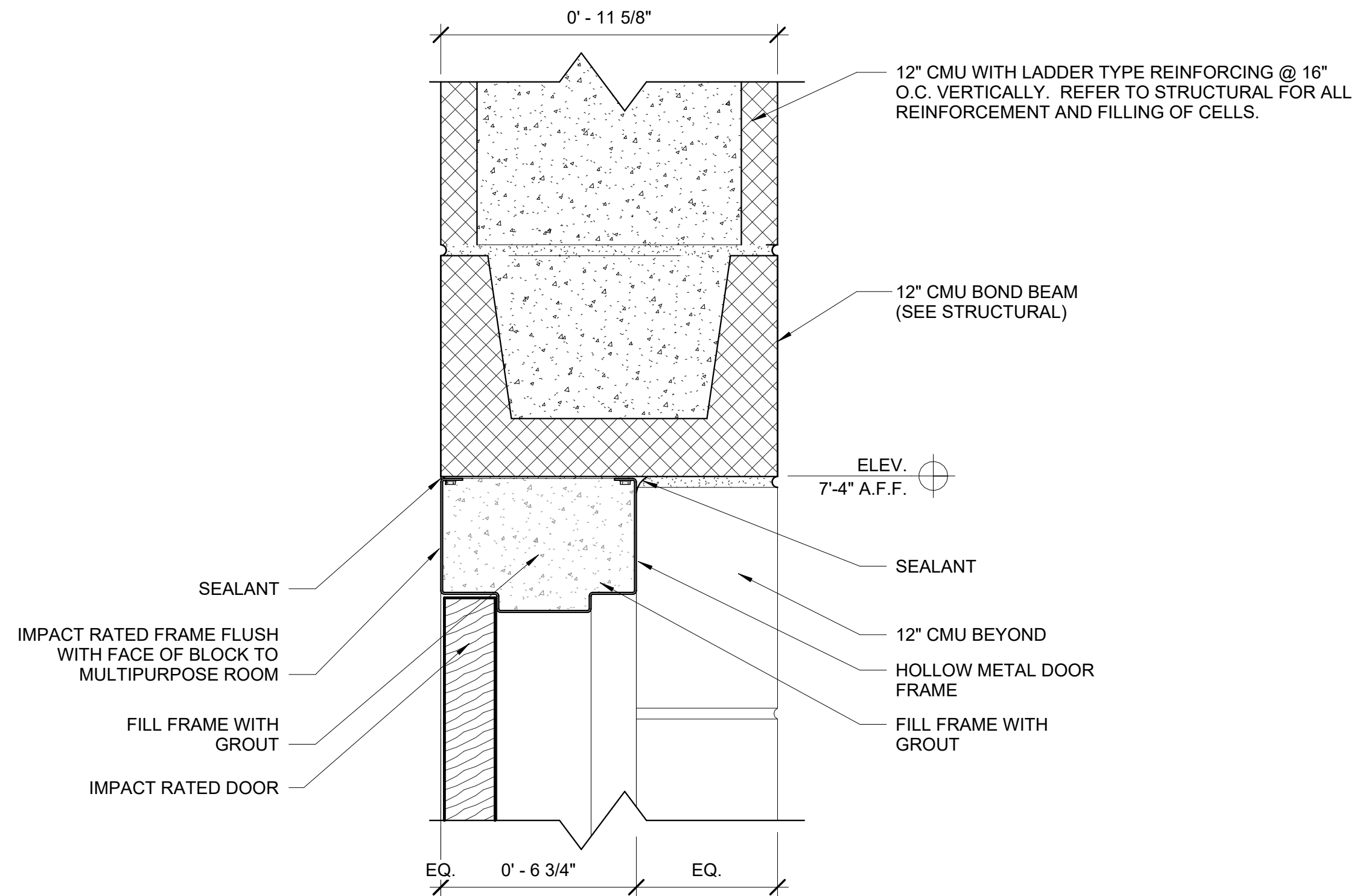
1
A4.2
ENLARGED PLAN - WELDING BOOTHS
1/2" = 1'-0"



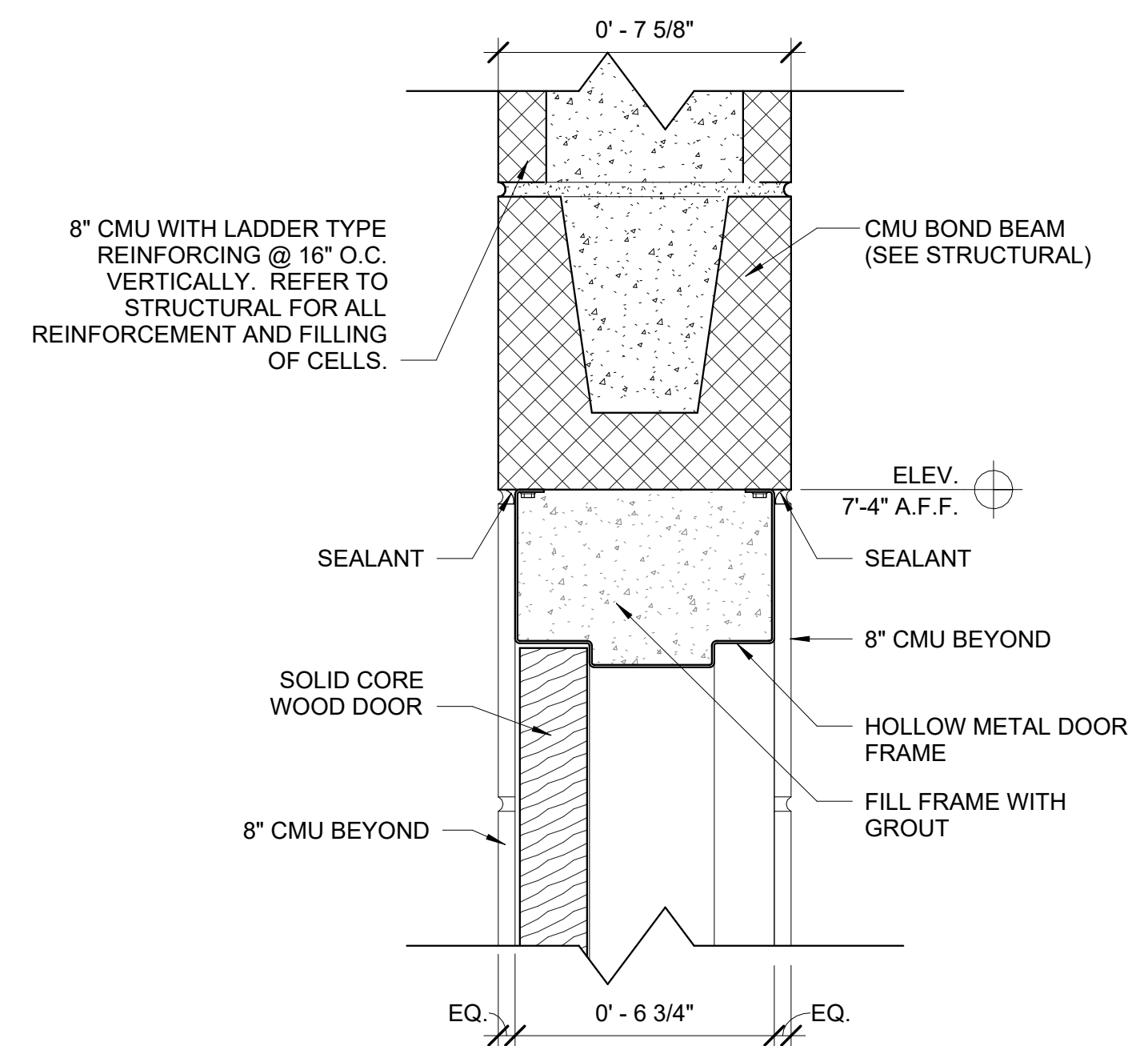
2
A4.2
WELDING BOOTH ELEVATION
1/2" = 1'-0"



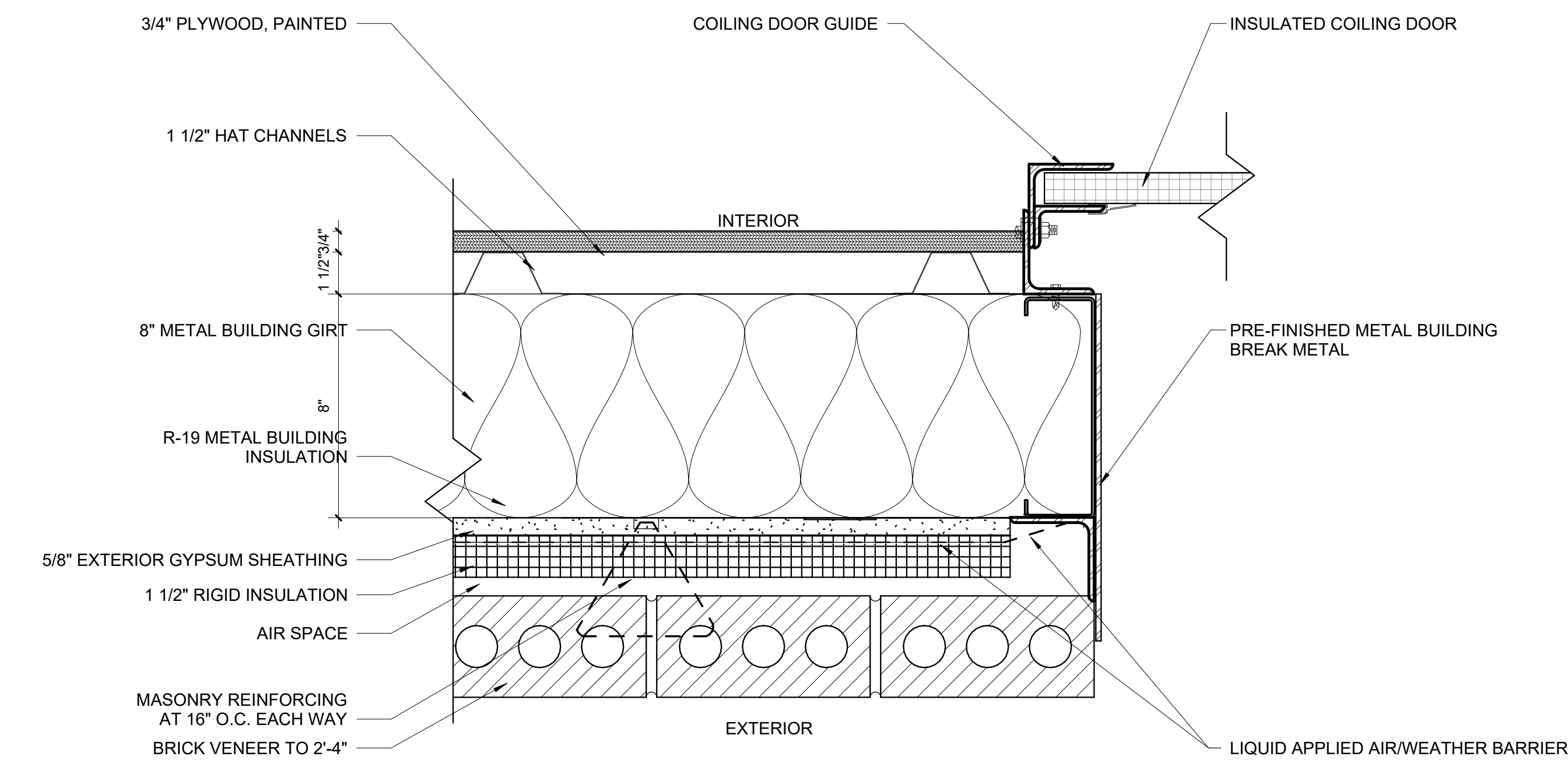
2
A5.1
COILING DOOR HEAD
3" = 1'-0"



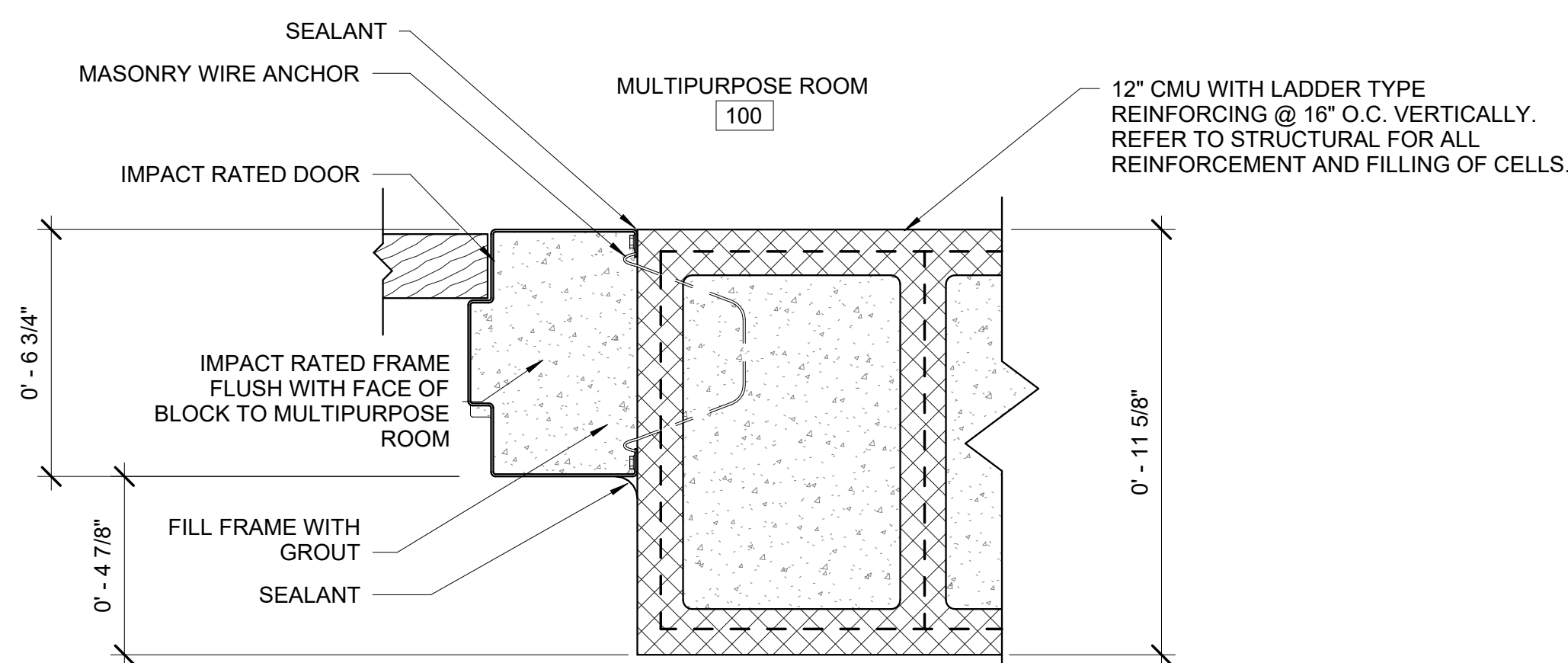
3
A5.1
INTERIOR DOOR HEAD IN 12" CMU
3" = 1'-0"



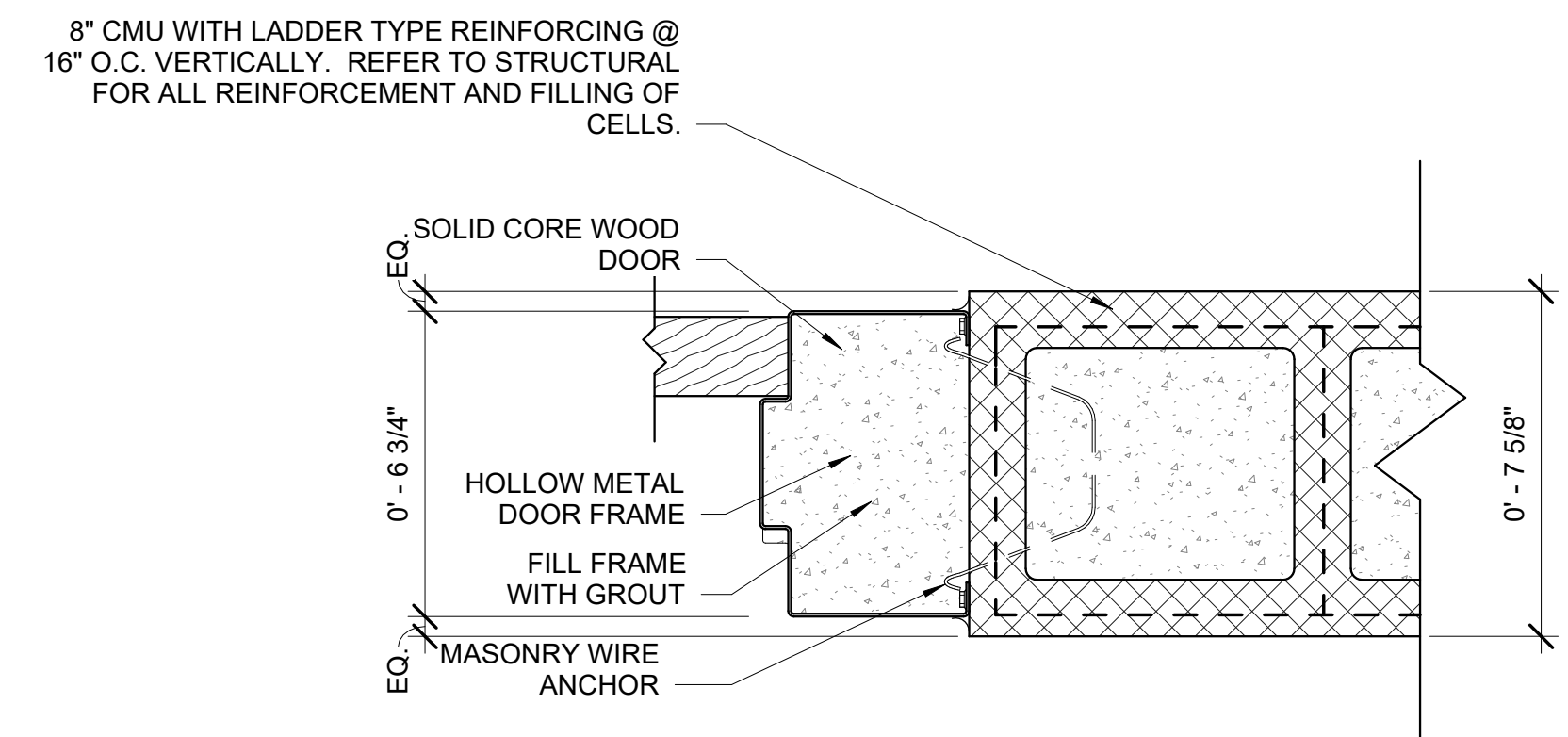
6
A5.1
INTERIOR DOOR HEAD IN CMU
3" = 1'-0"



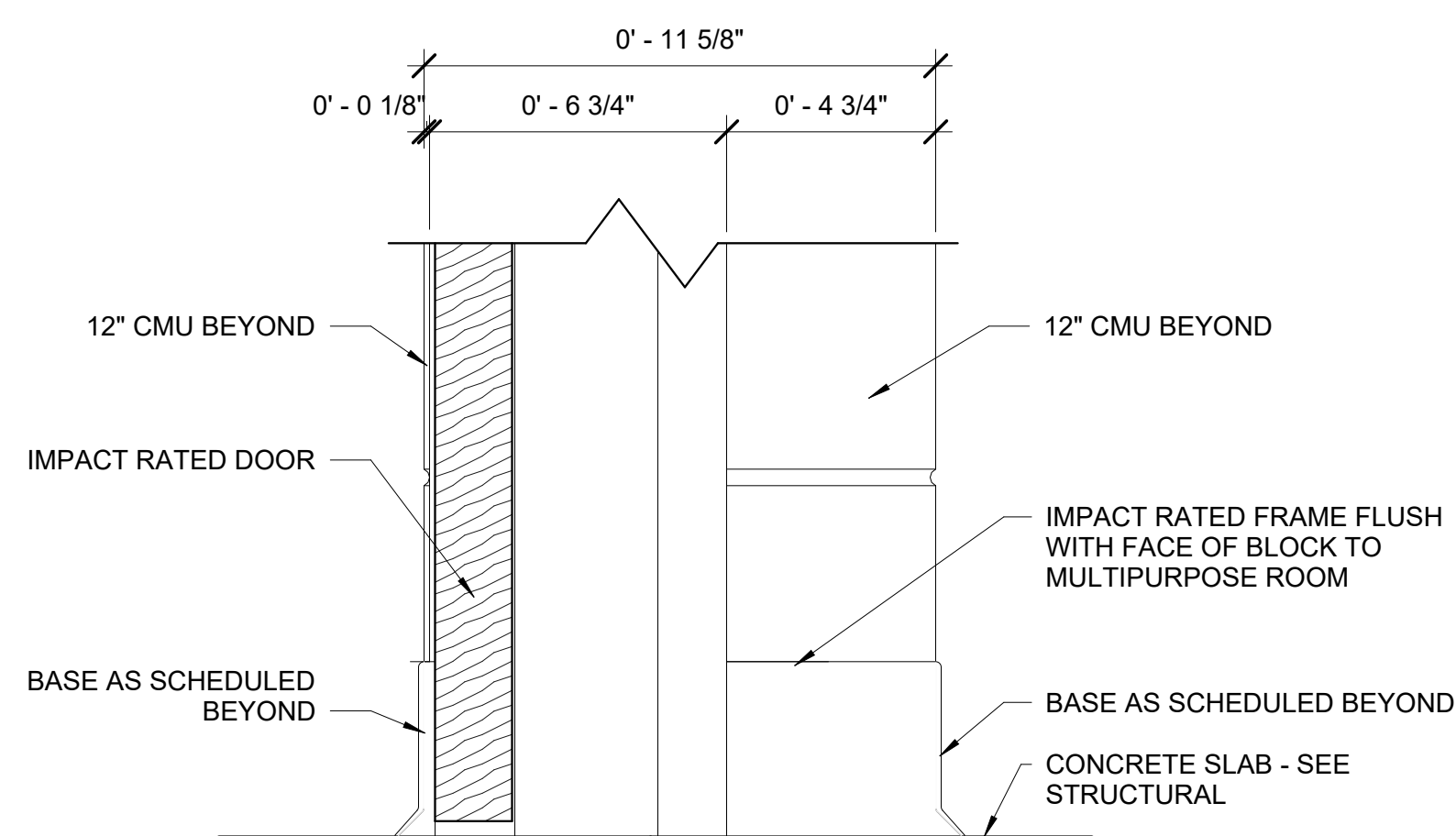
1
A5.1
COILING DOOR JAMB
3" = 1'-0"



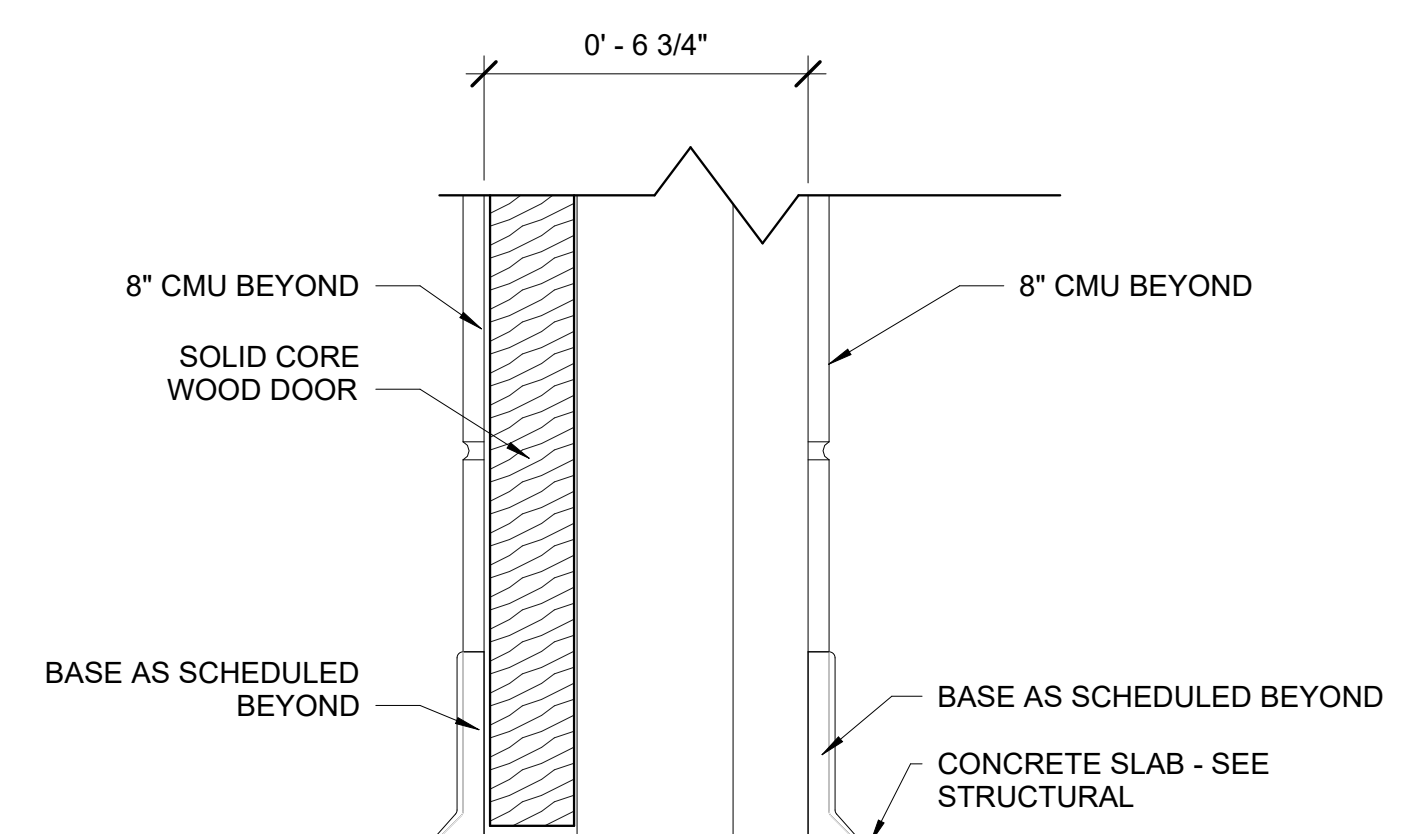
4
A5.1
INTERIOR DOOR JAMB IN 12" CMU
3" = 1'-0"



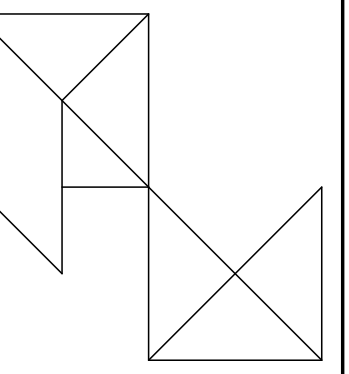
7
A5.1
INTERIOR DOOR JAMB IN CMU
3" = 1'-0"



5
A5.1
INTERIOR DOOR SILL IN 12" CMU
3" = 1'-0"



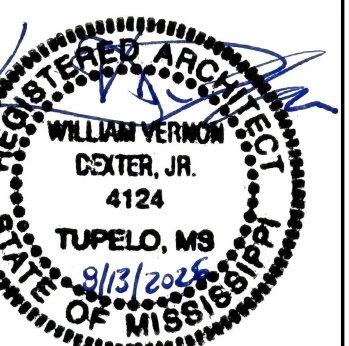
8
A5.1
INTERIOR DOOR SILL IN CMU
3" = 1'-0"



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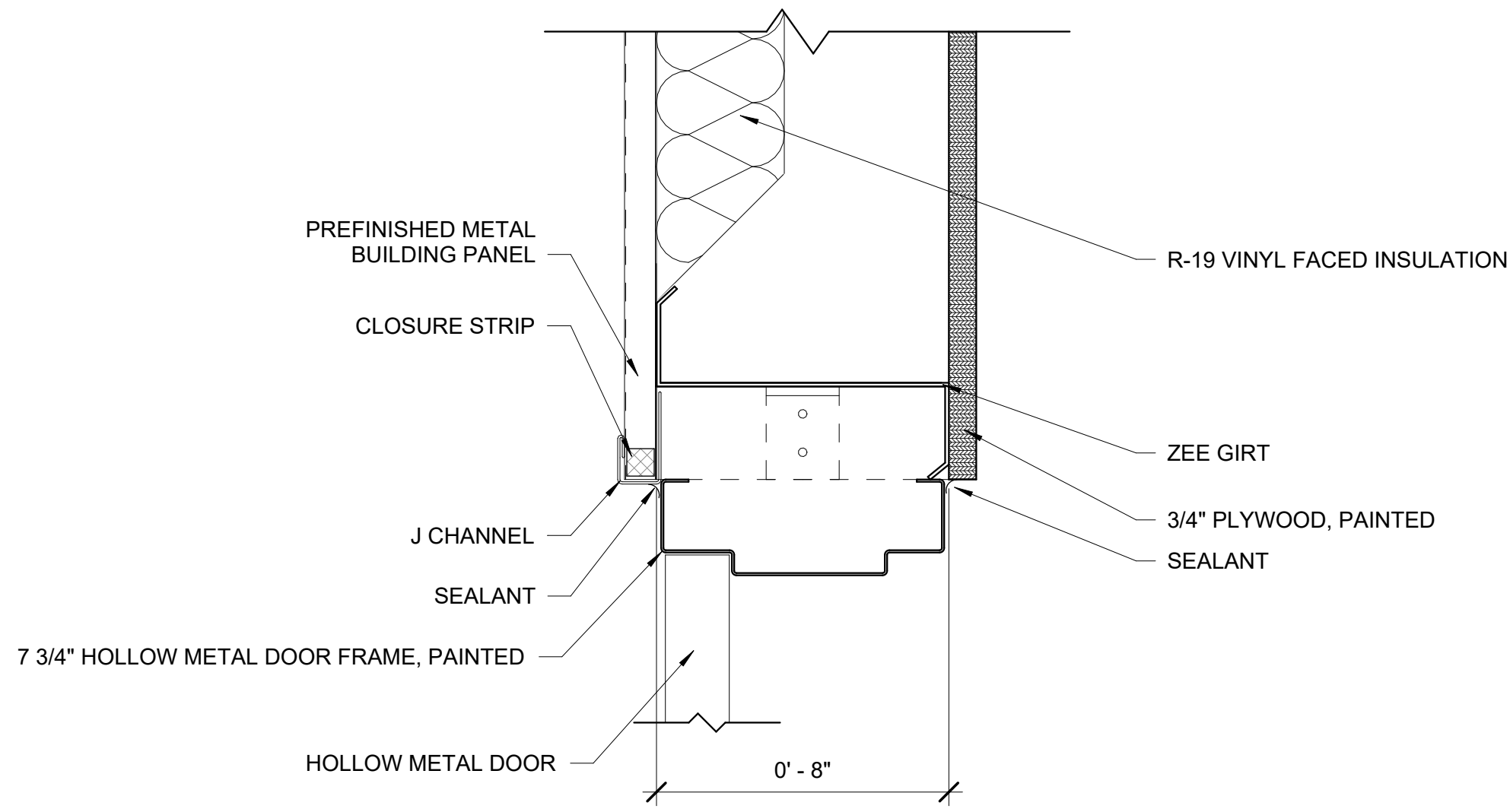
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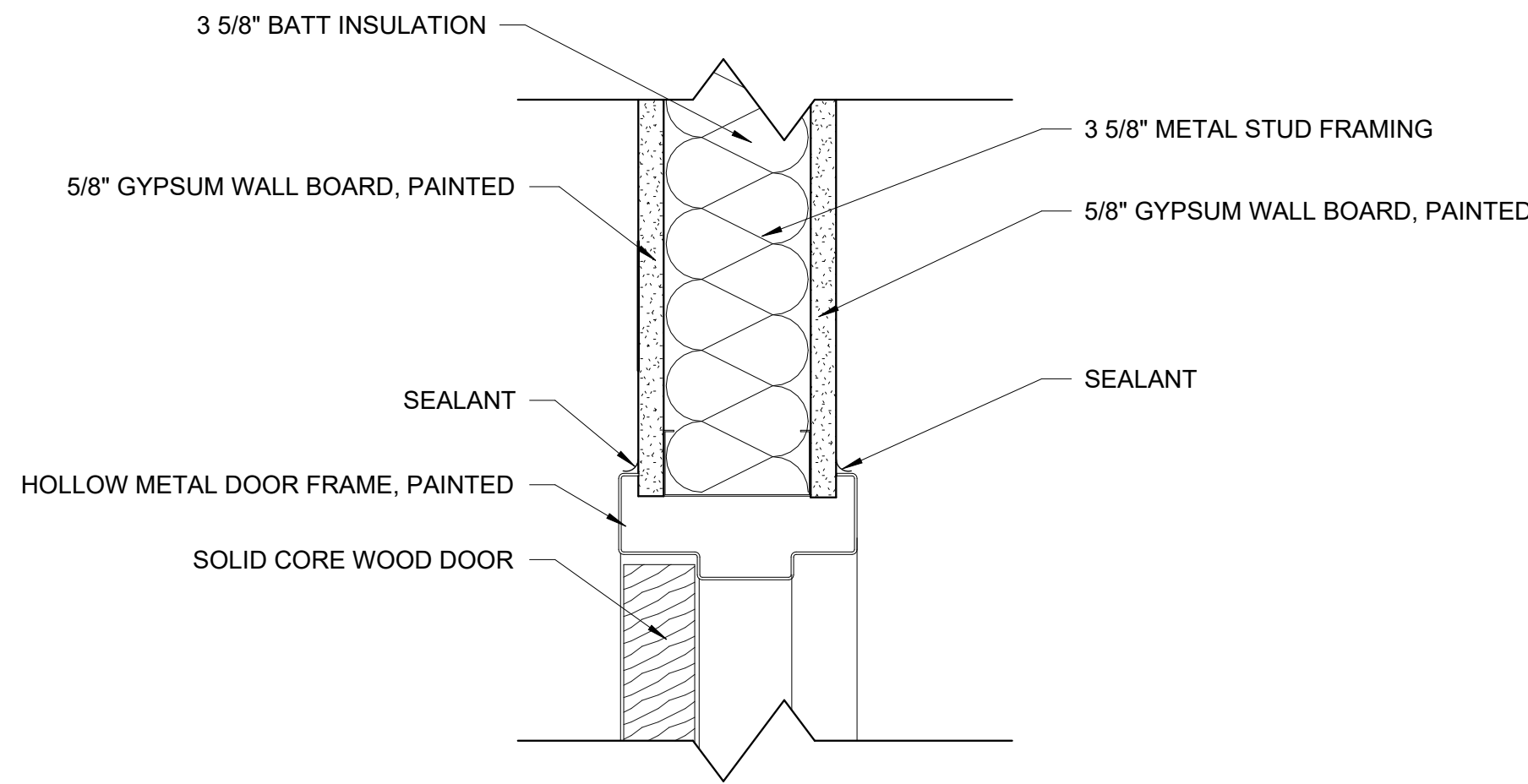
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DOOR DETAILS

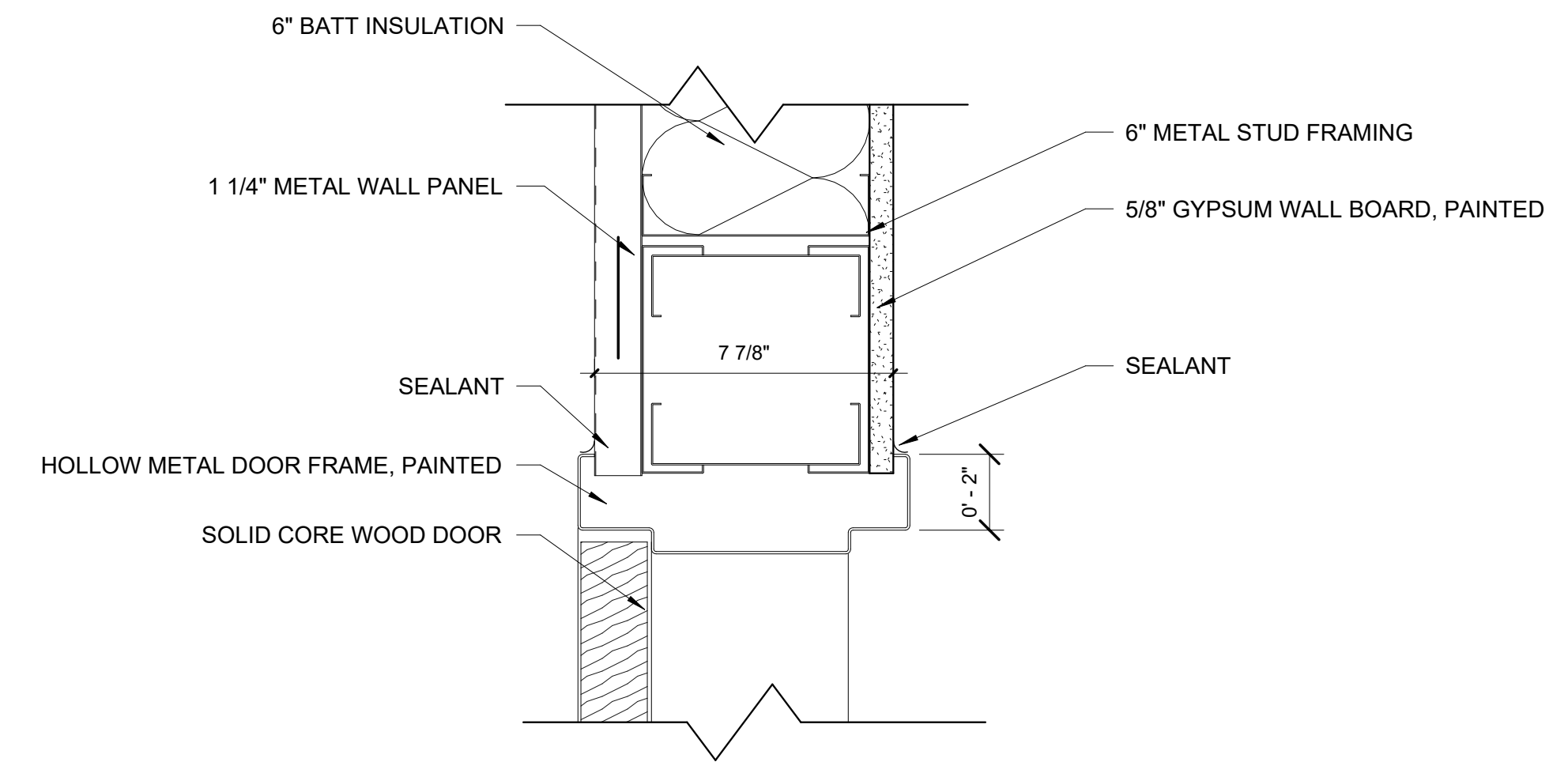
A5.1
SCALE: 3" = 1'-0"



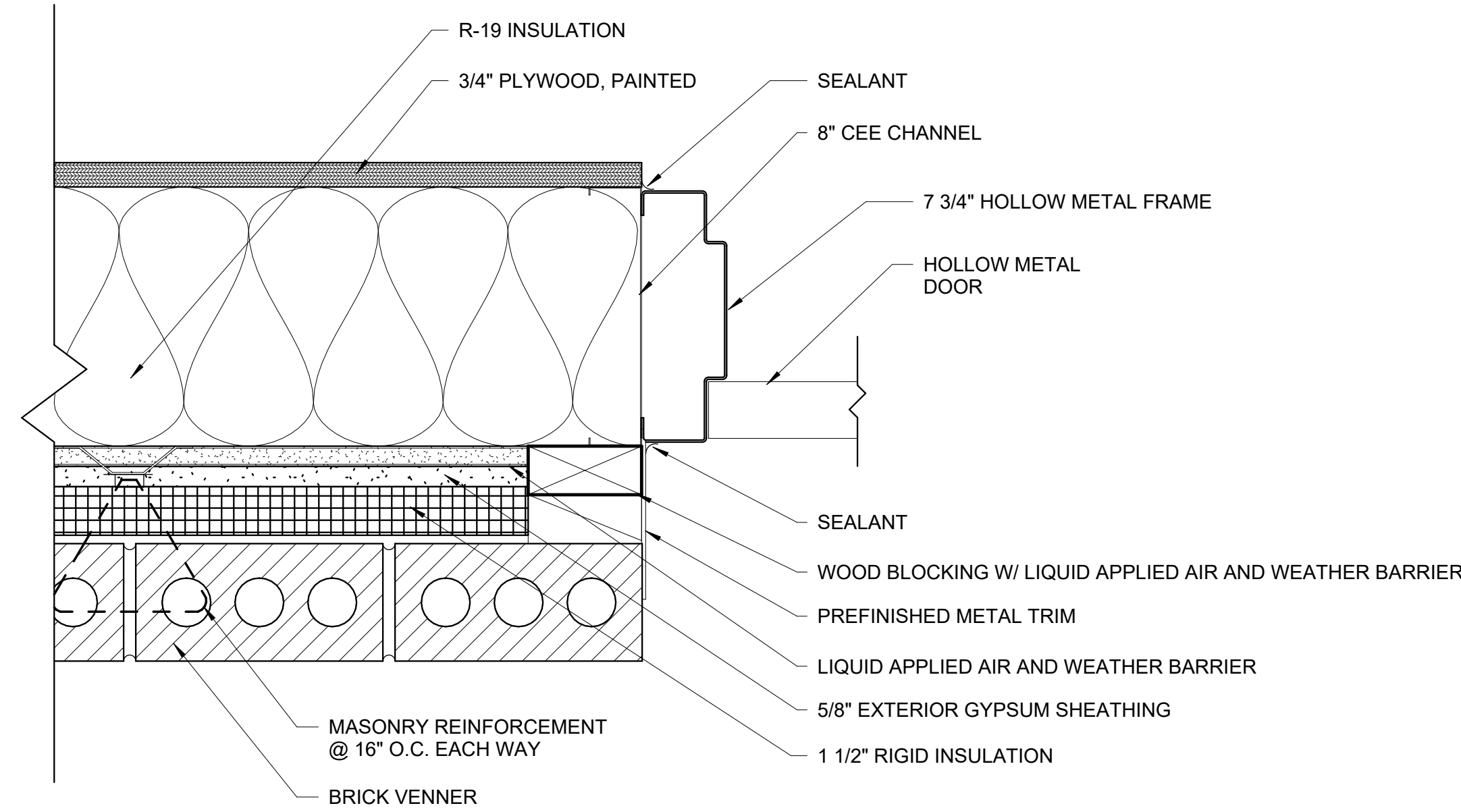
1
A5.2 / 3" = 1'-0" **EXTERIOR DOOR HEAD**



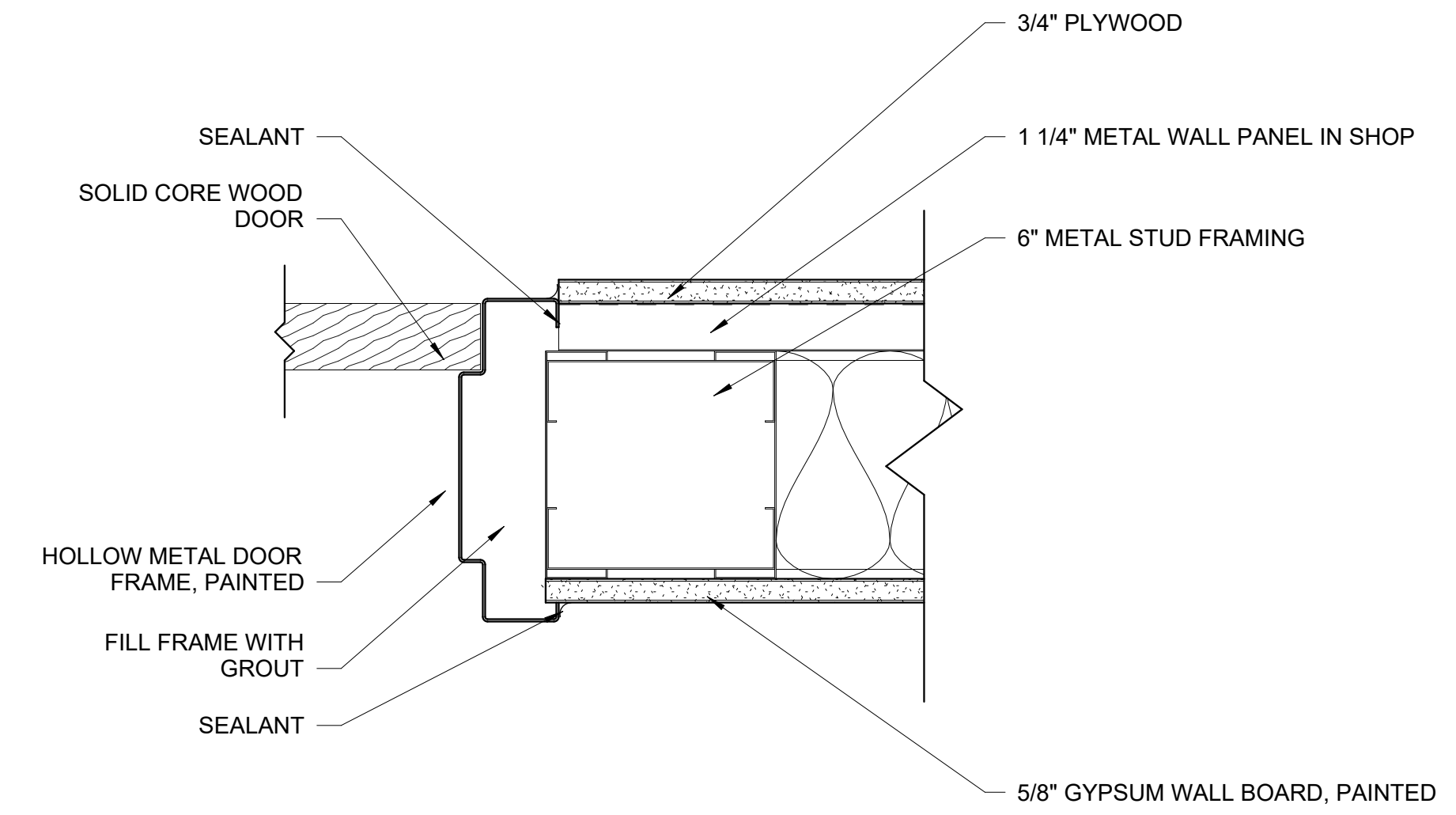
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A5.2 / 3" = 1'-0" **INTERIOR DOOR HEAD**



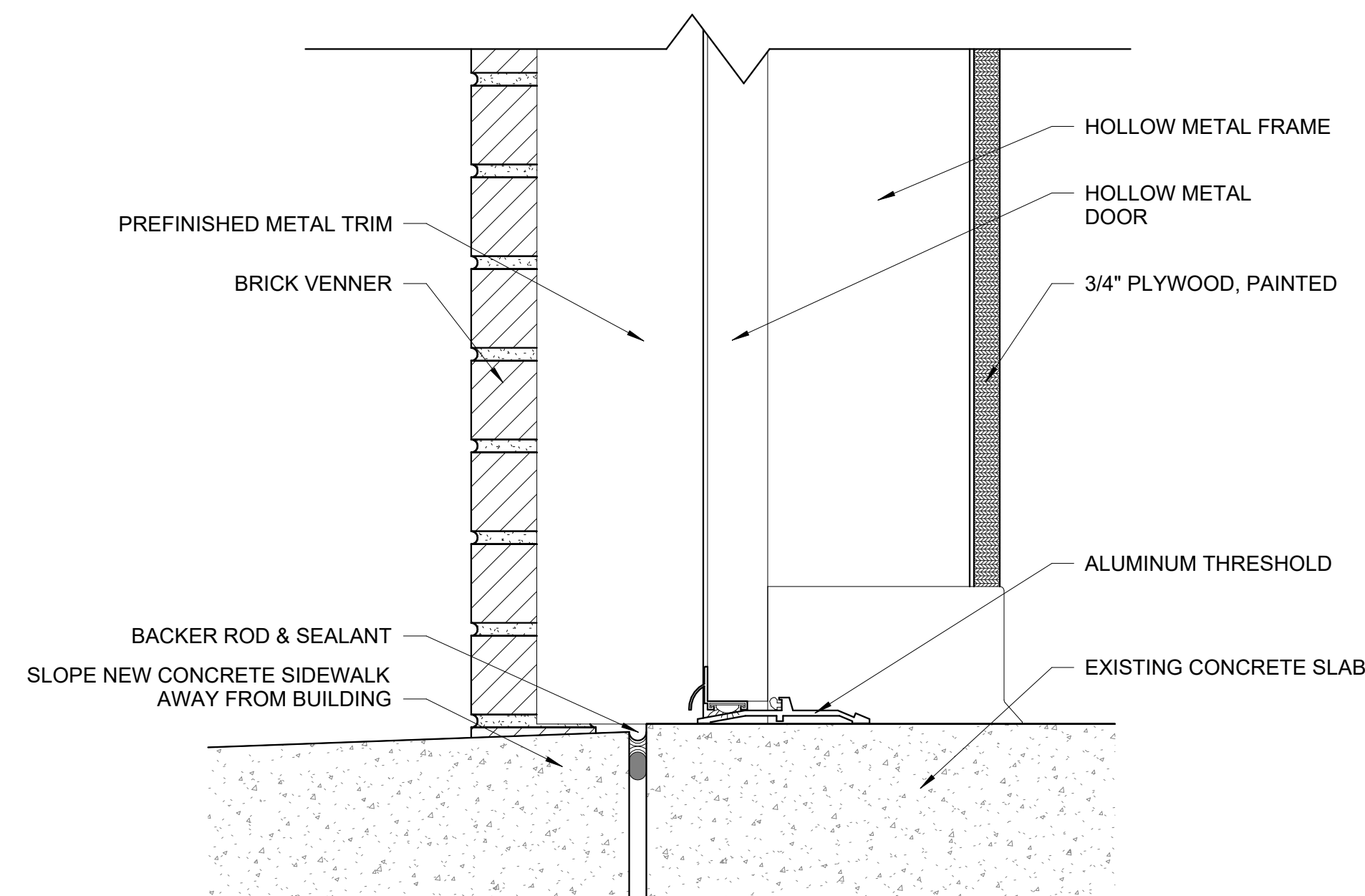
7
A5.2 / 3" = 1'-0" **INTERIOR DOOR HEAD 2**



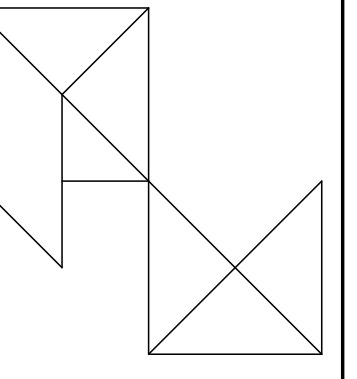
2
A5.2 / 3" = 1'-0" **EXTERIOR JAMB LOWER**



8
A5.2 / 3" = 1'-0" **INTERIOR DOOR JAMB 2**



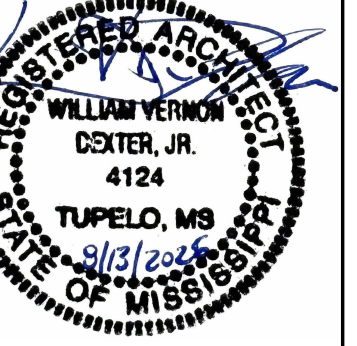
3
A5.2 / 3" = 1'-0" **EXTERIOR DOOR SILL**



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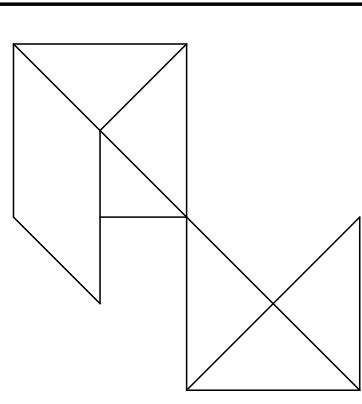


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DOOR DETAILS

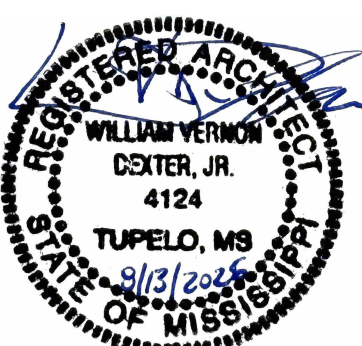
A5.2
SCALE: 3" = 1'-0"



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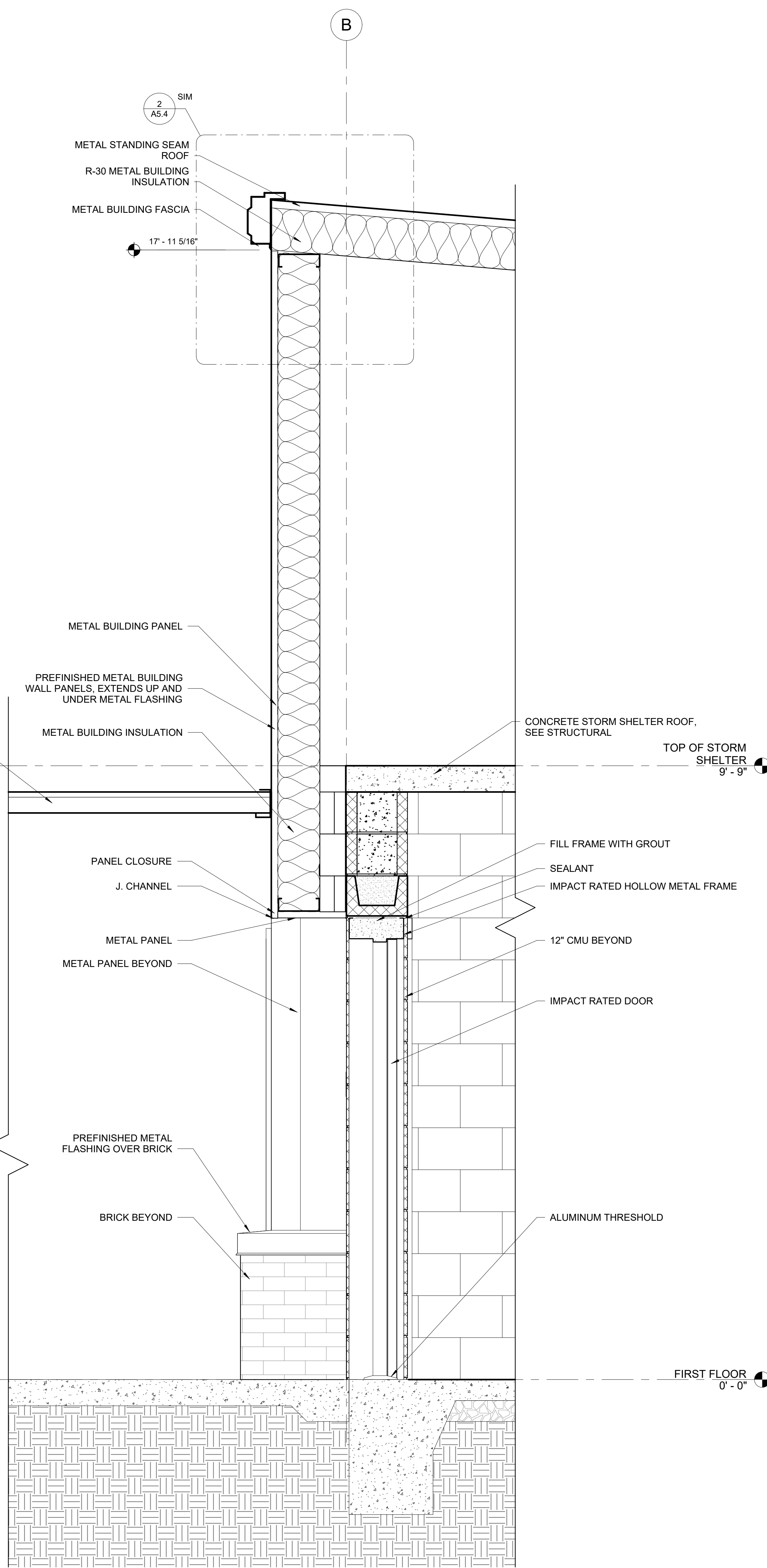


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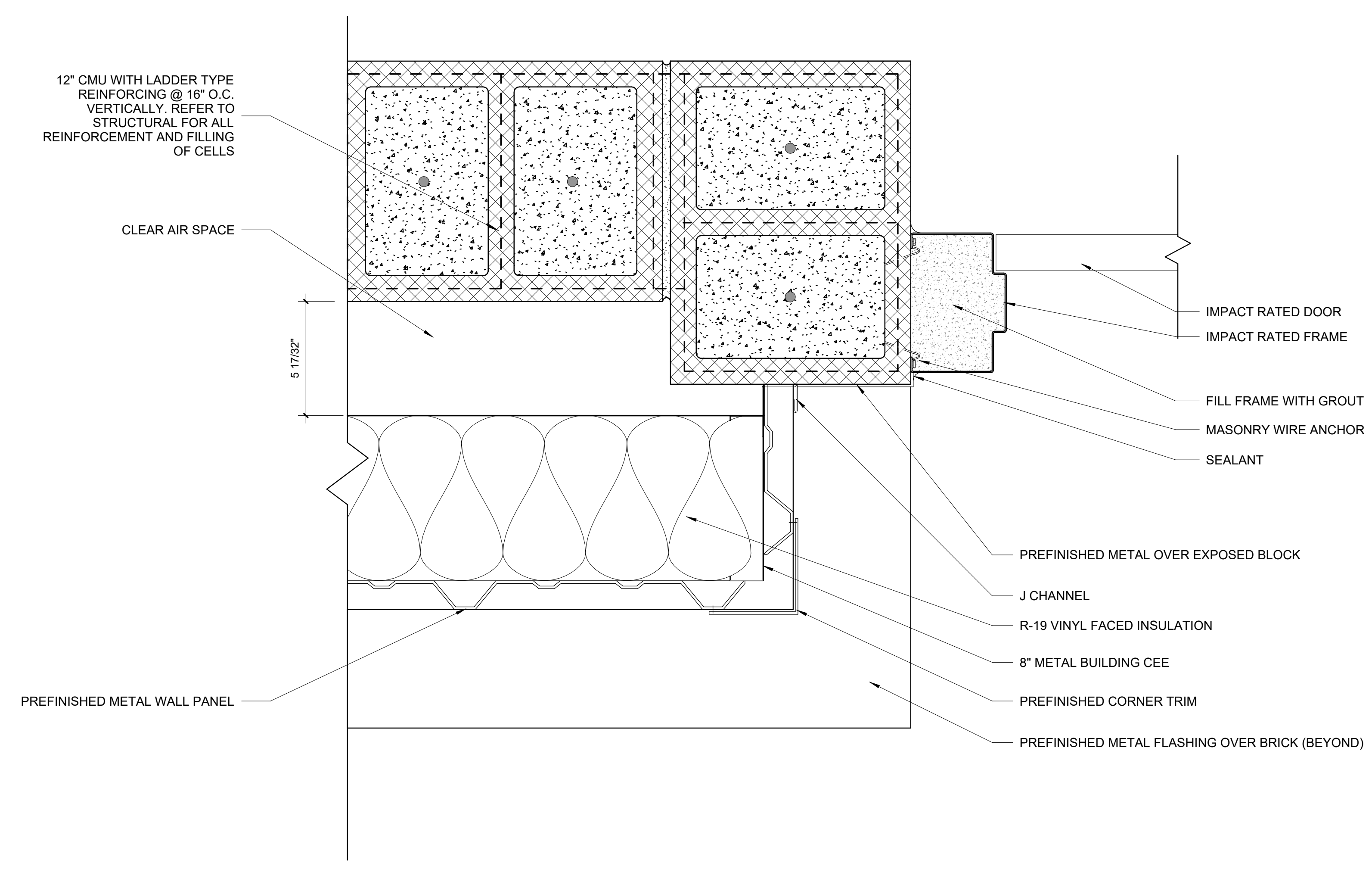
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DETAILS

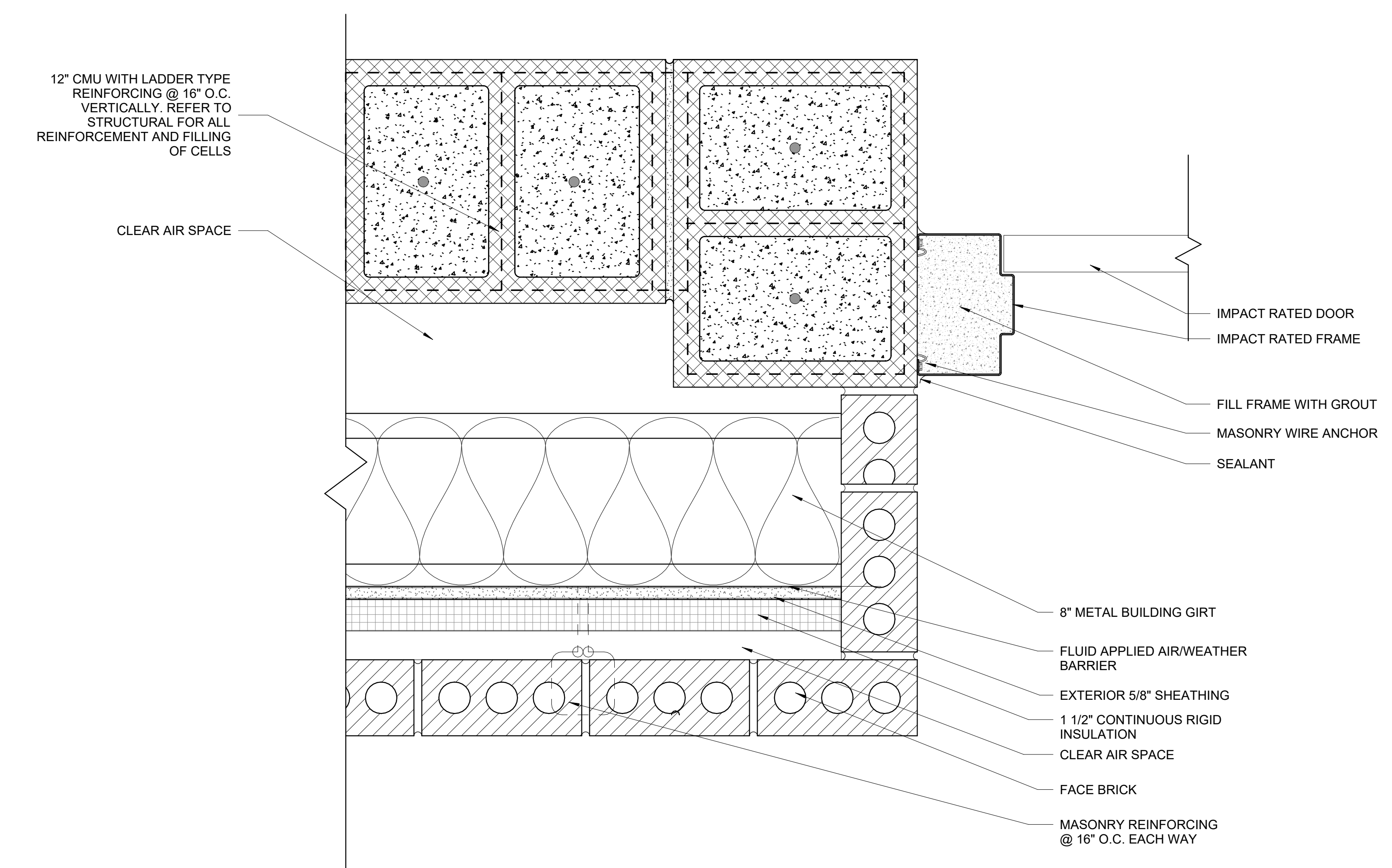
A5.3
SCALE: As indicated



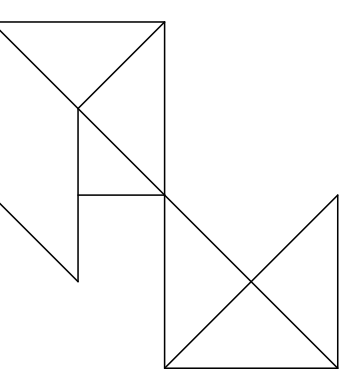
1
A5.3 1" = 1'-0" STORM SHELTER DOOR SECTION



2
A5.3 3" = 1'-0" EXTERIOR HOLLOW METAL DOOR JAMB METAL ABOVE 2'-4"



3
A5.3 3" = 1'-0" EXTERIOR HOLLOW METAL DOOR JAMB BRICK BELOW 2'-4"

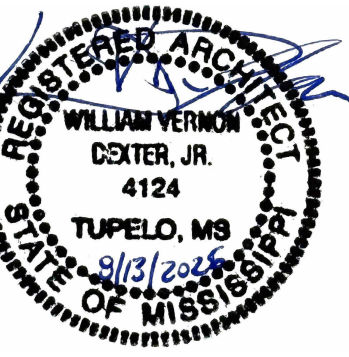


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DETAILS

A5.4

SCALE: 3" = 1'-0"

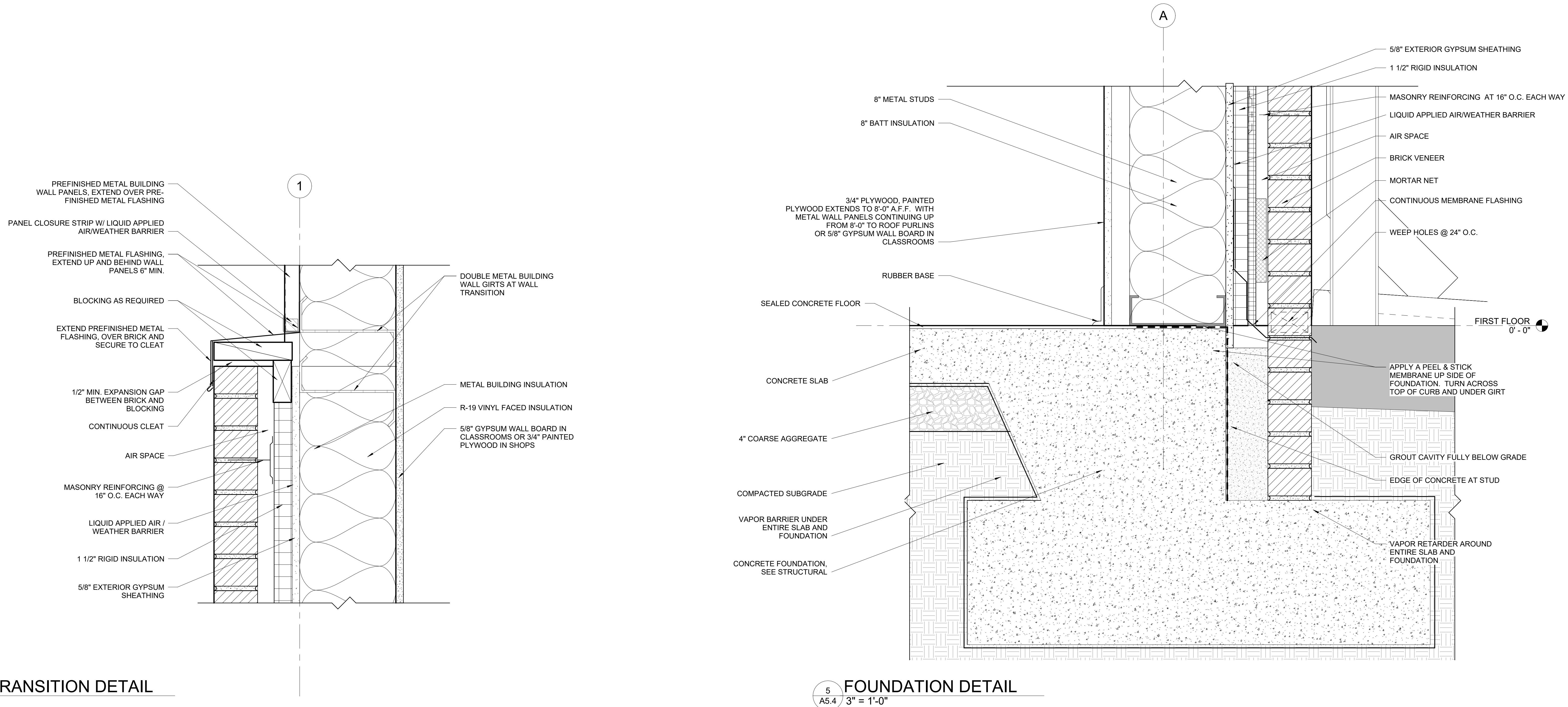
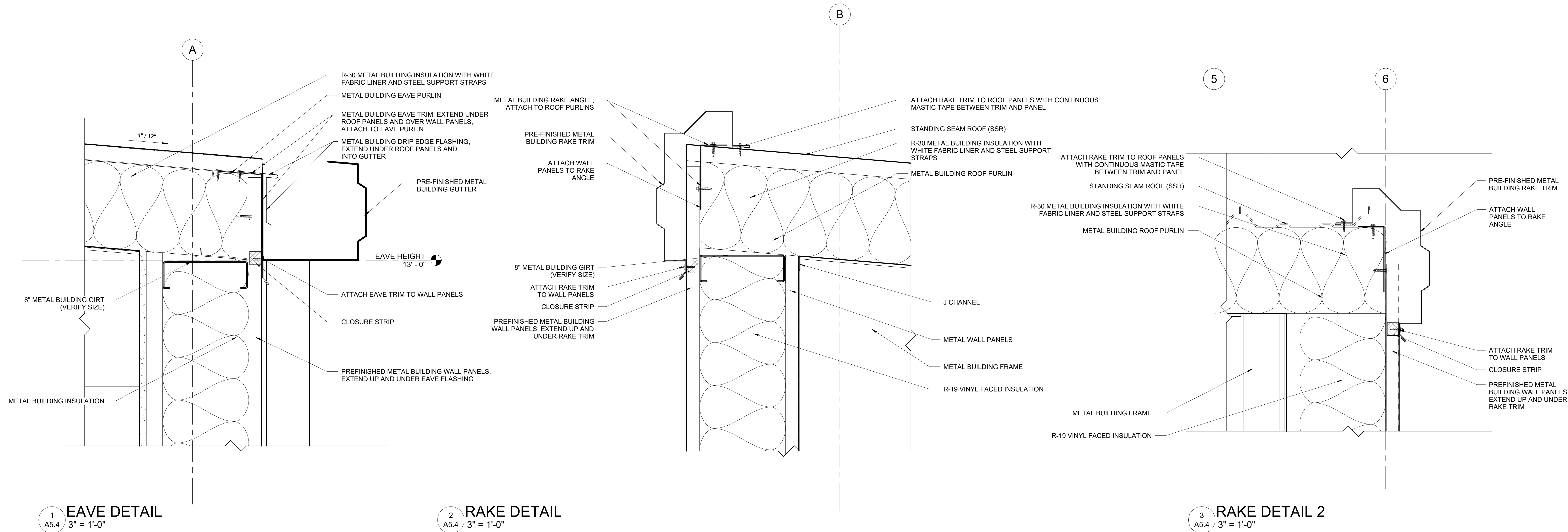


Diagram illustrating the dimensions for a Type-A Window (Hollow Metal). The overall height is 5'-0". The top sash height is 2'-4 1/2". The bottom sash height is 2'-4". The overall width is 2'-7". The top sash width is 2'-1 1/2". The bottom sash width is 2'-1 1/2". The window is labeled "TYPE - A (WINDOW)" and "HOLLOW METAL".

Diagram illustrating the dimensions and materials for various door types:

- TYPE-A (DOOR):** SOLID CORE WOOD (BIRCH VENEER). Dimensions: 7'-0" height, 3'-0" width. Window dimensions: 2'-5" x 2'-0". Impact rated glass in metal frame.
- TYPE-B (DOOR):** SOLID CORE WOOD (BIRCH VENEER). Dimensions: 7'-0" height, 3'-0" width.
- TYPE-C (DOOR):** HOLLOW METAL (PRIME AND PAINT). Dimensions: 7'-0" height, 3'-0" width.
- TYPE-D (DOOR):** HOLLOW METAL WITH GLAZING. Dimensions: 7'-0" height, 3'-0" width. Window dimensions: 2'-5" x 2'-0". Impact rated glass in metal frame.
- TYPE-E (DOOR):** INSULATED COILING DOOR. Dimensions: 10'-0" height, 14'-0" width.
- TYPE-F (DOOR):** FEMA 361 STORM-RESISTANT DOOR (PRIME AND PAINT). Dimensions: 7'-0" height, 3'-0" width.

1. CHARACTER PORTION, LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
2. COLOR CONTRAST. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.
3. RAISED OR INDENTED CHARACTERS OR SYMBOLS, LETTERS AND NUMBER ON SIGNS SHALL BE RAISED OR INCISED 1/32" (0.8mm) MIN. AND SHALL BE SANS SERIF CHARACTERS. RAISED CHARACTERS OR SYMBOLS SHALL BE AT LEAST 1/8" (3.2mm) HIGH BUT NOT MORE THAN 2" (50mm). INDENTED CHARACTERS OR SYMBOLS SHALL HAVE A STROKE WIDTH OF AT LEAST 1/4" (6mm). SYMBOLS OR PICTOGRAPHS ON SIGNS SHALL BE RAISED OR INDENTED 1/32" (0.8mm) MINIMUM.
4. SYMBOLS OF ACCESSIBILITY. ACCESSIBLE FACILITIES SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SYMBOL SHALL BE AS DISPLAYED AS SHOWN IN FIGURE A.
5. MOUNTING LOCATION AND HEIGHT. INTERIOR SIGNAGE SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE AND SHALL BE MOUNTED AT A HEIGHT OF 60" ABOVE THE FINISHED FLOOR. **DO NOT MOUNT SIGNAGE DIRECTLY TO DOOR OR FRAME**

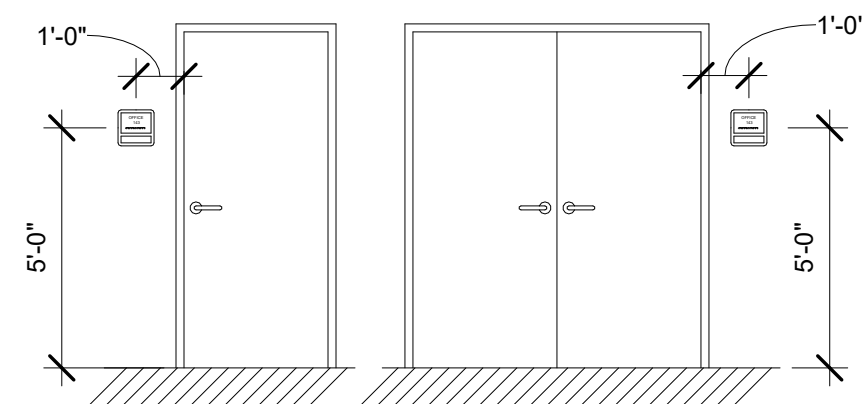


FIGURE A

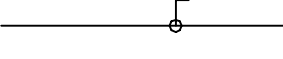
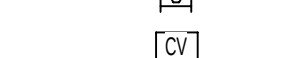
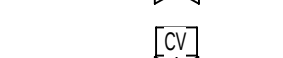
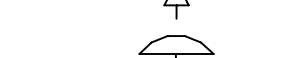
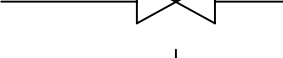
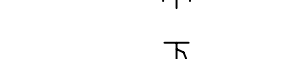
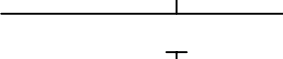
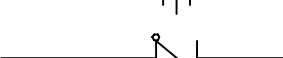
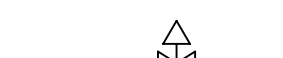
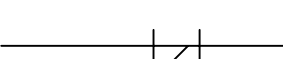
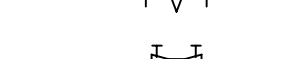
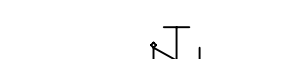
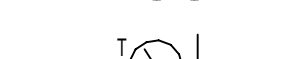
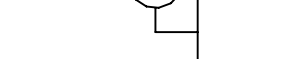
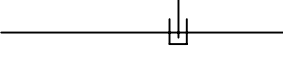
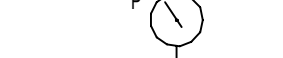
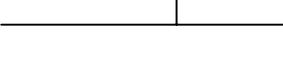
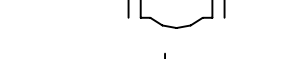
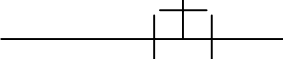
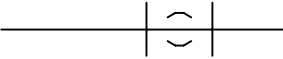
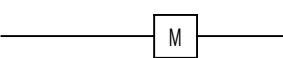
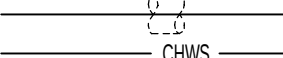
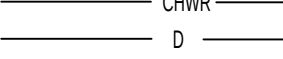
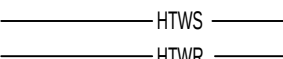
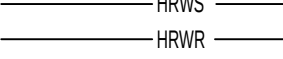
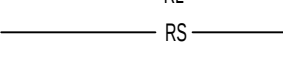
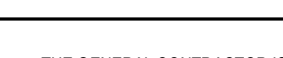
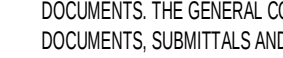
DOOR SCHEDULE																			
NUMBER	SINGLE/DOU BLE	DOOR			MATERIAL	TYPE	GLASS		FRAME				FIRE RATING	NOTES	SIGNAGE				
		WIDTH	HEIGHT	THICKNESS			GLASS SIZE	GLASS TYPE	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FRAME MATERIAL				TYPE			
100A	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	D	24" X 32"	1/A5.2	2/A5.2	3/A5.2	HM	1	-						
100B	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	D	24" X 32"	1/A5.2	2/A5.2	3/A5.2	HM	1	-						
101A	SINGLE	3'- 0"	7'- 0"	0'- 2"	SCW	A	24" X 32"	4/A5.2			HM	1	-		3				
102A	SINGLE	3'- 0"	7'- 0"	0'- 2"	SCW	A	24" X 32"	4/A5.2			HM	1	-		3				
103A	SINGLE	3'- 0"	7'- 0"	0'- 2"	SCW	A	24" X 32"	4/A5.2			HM	1	-		3				
103B	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	D	24" X 32"				HM	1	-		3				
104B	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	C	24" X 32"	1/A5.2	2/A5.2	3/A5.2	HM	1	-						
104C		14'- 0"	10'- 0"	0'- 2"	HM	E		1/A5.1	2/A5.1		HM	1	-						
105A	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	B		6/A5.1	7/A5.1	8/A5.1	HM	3	-		1				
107A	SINGLE	3'- 0"	7'- 0"	0'- 2"	SCW	A	24" X 32"	4/A5.2			HM	1	-		3				
107B	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	D	24" X 32"				HM	1	-		3				
108A	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	C	24" X 32"	1/A5.2	2/A5.2	3/A5.2	HM	1	-						
108B		14'- 0"	10'- 0"	0'- 2"	HM	E		1/A5.1	2/A5.1		HM		-						
109A	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	B		6/A5.1	7/A5.1	8/A5.1	HM	3	-		1				
110A	DOUBLE	6'- 0"	7'- 0"	0'- 2"	HM	C		1/A5.2	2/A5.2	3/A5.2	HM	2	-						
111A	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	B		6/A5.1	7/A5.1	8/A5.1	HM	3	-		2				
112A	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	B		6/A5.1	7/A5.1	8/A5.1	HM	3	-		2				
113A	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	F		3/A5.1	4/A5.1	5/A5.1	HM	5	-	FEMA 361 STORM-RESISTANT DOOR AND FRAME					
113B	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	F		3/A5.1	4/A5.1	5/A5.1	HM	5	-	FEMA 361 STORM-RESISTANT DOOR AND FRAME	2				
113C	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	F		3/A5.1	4/A5.1	5/A5.1	HM	5	-	FEMA 361 STORM-RESISTANT DOOR AND FRAME					
114A	SINGLE	3'- 0"	7'- 0"	0'- 2"	HM	B		6/A5.1	7/A5.1	8/A5.1	HM	3	-		2				

ROOM FINISH SCHEDULE									
NUMBER	NAME	FLOOR	BASE	ROOM FINISHES		CEILING	CEILING HEIGHT	NOTES	
100	HALLWAY	VCT	RUBBER BASE	GYPSUM WALL BOARD, PAINTED		2' x 2' LAY-IN ACOUSTICAL TILE	9'-0"		
101	OFFICE	VCT	RUBBER BASE	GYPSUM WALL BOARD, PAINTED / PAINTED CMU		2' x 2' LAY-IN ACOUSTICAL TILE	9'-0"		
102	OFFICE	VCT	RUBBER BASE	GYPSUM WALL BOARD, PAINTED / PAINTED CMU		2' x 2' LAY-IN ACOUSTICAL TILE	9'-0"		
103	CLASSROOM	VCT	RUBBER BASE	GYPSUM WALL BOARD, PAINTED		2' x 2' LAY-IN ACOUSTICAL TILE	9'-0"		
104	SHOP	SEALED CONCRETE	RUBBER BASE	PLYWOOD / CMU, PAINTED / METAL WALL PANEL		EXPOSED STRUCTURE	SLOPED	CEILING IS STRUCTURE AND VINYL BACKED INSULATION	
105	RR	CERAMIC TILE	CERAMIC BASE	EPOXY PAINTED CMU		EXPOSED STRUCTURE	9'-4"		
107	CLASSROOM	VCT	RUBBER BASE	GYPSUM WALL BOARD, PAINTED		2' x 2' LAY-IN ACOUSTICAL TILE	9'-0"		
108	SHOP	SEALED CONCRETE	RUBBER BASE	PLYWOOD / CMU, PAINTED / METAL WALL PANEL		EXPOSED STRUCTURE, PAINTED	SLOPED	CEILING IS STRUCTURE AND VINYL BACKED INSULATION	
109	RR	CERAMIC TILE	CERAMIC BASE	EPOXY PAINTED CMU		EXPOSED STRUCTURE	9'-4"		
110	ELECTRICAL	SEALED CONCRETE	RUBBER BASE	CMU / METAL STUD		EXPOSED STRUCTURE	9'-4"		
111	STORAGE	SEALED CONCRETE	RUBBER BASE	CMU, PAINTED		EXPOSED STRUCTURE	9'-4"		
112	STORAGE	SEALED CONCRETE	RUBBER BASE	CMU, PAINTED		EXPOSED STRUCTURE	9'-4"		
113	VESTIBULE	SEALED CONCRETE	RUBBER BASE	CMU, PAINTED		EXPOSED STRUCTURE	9'-4"		
114	JANITOR	SEALED CONCRETE	RUBBER BASE	CMU, PAINTED		EXPOSED STRUCTURE	9'-4"		

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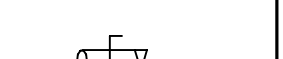
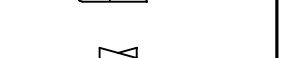
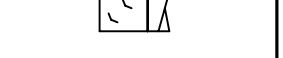
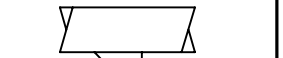
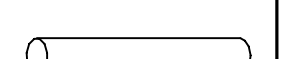
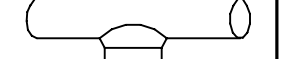
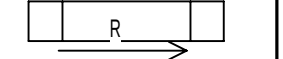
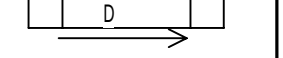
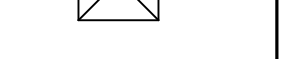
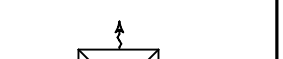
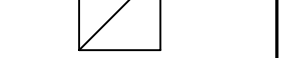
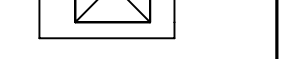
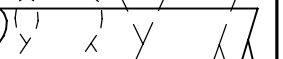
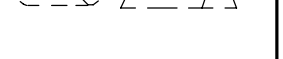
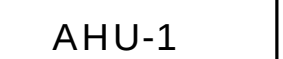
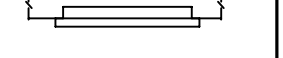
ABBREVIATIONS	
AD	ACCESS DOOR
AFB	ABOVE FINISHED FLOOR
AFS	AIR FLOW STATION
AHU	AIR HANDLING UNIT
A	ANALOG INPUT
AO	ANALOG OUTPUT
BAS	BUILDING AUTOMATION SYSTEM
BOP	BOTTOM OF PIPE
BPV	BUTTERFLY VALVE
BFP	BACKFLOW PREVENTER
BVU	BUILDING VENTILATION UNIT
CD	CONTROL DAMPER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COMBN	COMBINATION
COMBU	COMBUSTION
COND	AIR CONDITIONING CONDENSATE
CONV	CONNECT / CONNECTION
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT
DEL	ELECTRIC DIVISION
DN	DOWN
DO	DIGITAL OUTPUT
DP	DIFFERENTIAL PRESSURE
DVC	DIRECT EXPANSION COIL
EA	EXHAUST AIR
EF	EXHAUST FAN
ELEC	ELECTRIC / ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ERV	ENERGY RECOVERY VENTILATOR
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLEX	FLEXIBLE
FSID	FIRE & SMOKE DAMPER
FWE	FURNISHED WITH EQUIPMENT
GA	GAUGE
GC	GENERAL CONTRACTOR
GF	GAS FURNACE
GPM	GALLONS PER MINUTE
HTWS	HEATING WATER SUPPLY
HTWR	HEATING WATER RETURN
HAUH	HEATING WATER UNIT HEATER
IAW	IN ACCORDANCE WITH
LTH	LENGTH
MAN	MANUAL
MBD	MANUAL BALANCING DAMPER (OPPOSED BLADE TYPE)
MC	MECHANICAL CONTRACTOR
MFG	MANUFACTURER
MIN	MINIMUM
MTL	METAL
MUW	MAKE-UP WATER
MVD	MOTORIZED VOLUME DAMPER
NG	NATURAL GAS
OFE	OWNER FURNISHED EQUIPMENT
OSA	OUTSIDE AIR
PLBG	PLUMBING
PRESS	PRESSURE
PTAC	PACKAGED THROUGH WALL AIR CONDITIONER
RA	RETURN AIR
REQD	REQUIRED
RHC	REHEAT COIL
REFRIG	REFRIGERATION
RF	RETURN FAN
RL	REFRIGERANT LIQUID LINE
RS	REFRIGERANT SUCTION LINE - INSULATE IAW SPECIFICATIONS
SA	SUPPLY AIR
SD	SMOKE DAMPER
SECT	SECTION
SF	SUPPLY FAN
SPEC	SPECIFICATION
ST STL	STAINLESS STEEL
STM	STEAM
SYS	SYSTEM
TEMP	TEMPERATURE
TDV	TRIPLE DUTY VALVE
TG	TEMPERATURE GAUGE
TU	TERMINAL UNIT
TYP	TYPICAL
UCM	UNIT CONTROL MODULE
UPS	UNINTERRUPTED POWER SOURCE
VAL	VALVE
VFD	VARIABLE FREQUENCY DRIVE
VO	VOLUME DAMPER
VVT	VARIABLE VOLUME TERMINAL UNIT
WTR	WATER
W	WITH

CONTROL SYMBOL LEGEND	
	AIR FLOW MEASURING STATION
	ADVANCED PRESSURE MONITOR
	ALARM MODULE
	BUILDING TEMPERATURE CONTROL PANEL
	BUILDING AUTOMATION SYSTEM CONTROL PANEL
	CONTROL DAMPER
	CARBON MONOXIDE SENSOR
	PROGRAMMABLE CARBON DIOXIDE SENSOR WITH DISPLAY (WALL MOUNT TOP OF SENSOR AT 48" A.F.F. WHEN OCCUPANT MANIPULATION IS AN OPTION)
	CURRENT SENSING RELAY
	CONTROL VALVE
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE GAUGE, DIAL TYPE
	ELECTRIC ACTUATOR
	FLOW MEASURING SENSOR
	FREEZE STAT
	SPACE HUMIDITY SENSOR (WALL MOUNT TOP OF SENSOR AT 48" A.F.F. WHEN OCCUPANT MANIPULATION IS AN OPTION)
	SPACE HUMIDISTAT (WALL MOUNT TOP OF BOX AT 48" A.F.F. WHEN OCCUPANT MANIPULATION IS AN OPTION)
	HIGH LIMIT PRESSURE SWITCH
	HUMIDITY SENSOR
	SPACE THERMOSTAT - HIGH TEMPERATURE (WALL MOUNT TOP OF BOX AT 48" A.F.F. WHEN OCCUPANT MANIPULATION IS AN OPTION)
	LOW LIMIT PRESSURE SWITCH
	SPACE THERMOSTAT - LOW TEMPERATURE (WALL MOUNT TOP OF BOX AT 48" A.F.F. WHEN OCCUPANT MANIPULATION IS AN OPTION)
	MOISTURE ALARM
	NATURAL GAS METER
	MOTOR STARTER
	MANUAL PULL STATION FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM
	STATIC AIR OR WATER PRESSURE SENSOR
	PRESSURE GAUGE
	NATURAL GAS REGULATOR
	SMOKE DETECTOR
	SMOKE DAMPER
	STATIC PRESSURE SENSOR, LOCATE 10 DISTANCE DOWNSTREAM OF DUCT SYSTEM
	SPACE THERMOSTAT (WALL MOUNT TOP OF BOX AT 48" A.F.F. WHEN OCCUPANT MANIPULATION IS AN OPTION)
	SPACE TEMPERATURE SENSOR (WALL MOUNT TOP OF BOX AT 48" A.F.F. WHEN OCCUPANT MANIPULATION IS AN OPTION)
	TEMPERATURE SENSOR
	DIAL THERMOMETER, MOUNT AT 60" A.F.F. OR BEST VISIBLE LOCATION
	COMBINATION SPACE TEMPERATURE AND HUMIDITY SENSOR (MOUNT TOP OF BOX AT 48" A.F.F. WHEN OCCUPANT CONTROL IS PROVIDED)
	UNIT CONTROL MODULE
	VARIABLE FREQUENCY DRIVE
	VELOCITY SENSOR
	VERTICAL SASH SENSOR
	ZONE PRESSURE SENSOR

PIPING SYMBOL LEGEND	
	BALL VALVE
	BALL VALVE TYPE BALANCING VALVE WITH PRESSURE TAPS
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	REHEAT CONTROL VALVE
	DRAIN VALVE
	UNION
	PRESSURE/TEMPERATURE TEST PORT
	AUTOMATIC AIR VENT
	GLOBE VALVE
	BUTTERFLY VALVE
	MOTORIZED VALVE
	BUTTERFLY VALVE WITH MOTORIZED OPERATOR
	CHECK VALVE
	REDUCED PRESSURE BACKFLOW PREVENTOR
	PRESSURE REDUCING VALVE
	STRAINER WITH BLOW-DOWN VALVE
	PLUG VALVE
	AUTOFLOW VALVE
	TRIPLE DUTY VALVE, COMBINATION SHUTOFF, BALANCING AND CHECK VALVE - WITH MEASURING CONNECTIONS
	DIAL THERMOMETER
	DIAL THERMOMETER WITH THERMOMETER WELL
	PRESSURE GAUGE WITH GAUGE COCK
	BRAIDED FLEXIBLE METAL HOSE FOR FLUSHING HYDRONIC SYSTEM PRIOR TO COIL CONNECTIONS
	FLEXIBLE PIPE CONNECTION
	90 DEG. ELBOW
	90 DEG. ELBOW DOWN
	TEE
	TEE DOWN
	IN-LINE PUMP
	NATURAL GAS REGULATOR
	NATURAL GAS METER
	INSULATE ALL PIPING PER SPECIFICATIONS, REPORT DISCREPANCIES TO ENGINEER
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSATE DRAIN (INSULATE PER SPECIFICATIONS)
	NATURAL GAS PIPING
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	HEAT RECOVERY WATER SUPPLY
	HEAT RECOVERY WATER RETURN
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION

COORDINATION OF WORK

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF WORK PERFORMED BY ALL TRADES DEPICTED IN THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL CONDUCT COORDINATION REVIEWS WITH ALL TRADES UTILIZING THE CONSTRUCTION DOCUMENTS, SUBMITTALS AND ALL SUPPORTING DOCUMENTS PRIOR TO AND DURING ALL PHASES OF CONSTRUCTION. THE ARCHITECT AND ENGINEER SHALL BE MADE AWARE OF ALL CONFLICTS BETWEEN PLANNED AND CURRENT CONSTRUCTION ACTIVITIES AND CONSTRUCTION DOCUMENTS AS SOON AS POSSIBLE IN ACCORDANCE WITH REPORTING REQUIREMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS.

HVAC SYMBOL LEGEND	
	BRANCH DUCT (8-12" MAXIMUM FLEX DUCT LTH)
	MANUAL DAMPER (OPPOSED BLADE TYPE)
	90 DEG. MITERED ELBOW W/ TURNING VANES
	90 DEG. ELBOW
	45 DEG. BRANCH TAP
	CONICAL TAKEOFF
	CONCENTRIC DUCT REDUCER
	SQUARE TO ROUND CONCENTRIC REDUCER
	RISE IN DIRECTION OF AIR FLOW
	DROP IN DIRECTION OF AIR FLOW
	90 DEG. ELBOW UP
	90 DEG. ELBOW DOWN
	CEILING DIFFUSER
	CEILING DIFFUSER, 1 WAY BLOW
	CEILING DIFFUSER, 2 WAY BLOW
	CEILING DIFFUSER, 2 WAY CORNER BLOW
	CEILING DIFFUSER, 3 WAY BLOW
	LINEAR SLOT DIFFUSER, ADJUSTABLE BLOW
	CEILING RETURN GRILLE
	CEILING EXHAUST GRILLE
	DIFFUSER BELOW DUCT
	EXTERNALLY WRAPPED DUCT
	AIR DISTRIBUTION MARK: SYSTEM & MARK NUMBER CFM QUANTITY NECK SIZE
	EQUIPMENT TAG NUMBER
	SIDE WALL GRILLE
	WALL LOUVER
	FIRE DAMPER
	SMOKE DAMPER
	SPACE AIR PRESSURE RELATIONSHIP INDICATES QUANTITY AND DIRECTION OF AIR FLOW
	NEW CONNECTION TO EXISTING
	LIMIT OF DEMOLITION
	TERMINAL UNIT WITH REHEAT COIL

OUTSIDE AIR SCHEDULE - 2018 IMC / ASHRAE 62.1 IAQ PROCEDURE																
FLOOR	ROOM #	SYSTEM #	ROOM DESCRIPTION	ROOM CLASSIFICATION	TOTAL ROOM AREA (SF)	NET OCCUPANCY AREA (SF)	EST. MAX. OCCUPANCY # / 1000 SF	OCCUPANCY = SF x EST. MAX. OCC. / 1000 SF	ACTUAL OCCUPANCY	CFM / PERSON	OUTSIDE AIR (CFM) = SF x OCCUPANCY x (CFM/PERSON)	CFM / SF	OUTSIDE AIR (CFM) = SF x (CFM/SF)	EXHAUST RATE (CFM)	TOTAL OUTSIDE AIRFLOW (CFM)	
1	101	ACU-1	OFFICE	OFFICE	105	105	5	0.5	1	5	5	0	0	0	5	
1	102	ACU-1	OFFICE	OFFICE	105	105	5	0.5	1	5	5	0	0	0	5	
1	107	ACU-1	CLASSROOM	CLASSROOM	539	539	35	18.9	25	5	125	0	0	0	125	
MINIMUM REQUIRED (CFM)														0	135	
TOTAL INSTALLED (CFM)														0	150	
1	100	ACU-2	HALLWAY	CORRIDOR	170	170	0	0.0	0	0	0	0.12	20	0	20	
1	103	ACU-2	CLASSROOM	CLASSROOM	538	538	35	18.8	25	5	125	0	0	0	125	
MINIMUM REQUIRED (CFM)														0	125	
TOTAL INSTALLED (CFM)														0	150	
1	105	MSE-1	RESTROOM	TOILET ROOM	56	56	0	0.0	0	0	0	0	0	70	0	
1	109	MSE-1	RESTROOM	TOILET ROOM	56	56	0	0.0	0	0	0	0	0	70	0	
1	110	MSE-1	ELECTRICAL	ELECTRICAL	61	61	0	0.0	0	0	0	0	0	0	0	
1	111	MSE-1	STORAGE	STORAGE	69	69	0	0.0	0	0	0	0.12	8	0	10	
1	112	MSE-1	STORAGE	STORAGE	115	115	0	0.0	0	0	0	0.12	14	0	15	
1	113	MSE-1	VESTIBULE	CORRIDOR	306	306	0	0.0	0	0	0	0.12	37	0	35	
1	114	MSE-1	JANITOR	JANITOR	15	15	0	0.0	0	0	0	0	0	35	0	
MINIMUM REQUIRED (CFM)														175	60	
TOTAL INSTALLED (CFM)														175	0	
BLDG - MINIMUM REQUIRED (CFM)														175	320	
BLDG - TOTAL INSTALLED OSA (CFM)														-	300	
BLDG - TOTAL EXHAUSTED (CFM)														175	-	
BLDG - INTERMITTENT EXHAUSTED (CFM)														70	-	
BUILDING - PRESSURIZATION, (TARGET: 1/3 ACH = 110 CFM)														-	230	

- A - MECHANICAL EXHAUST REQUIRED AND RECIRCULATION IS PROHIBITED EXCEPT AS PERMITTED BY 2018 IMC, SECTION 403.2.1.
B - TRANSFER AIR PERMITTED IN ACCORDANCE WITH 2018 IMC, SECTION 403.2.2.
C - EXHAUST RATE FOR INTERMITTENT OPERATION - 70 CFM PER WATER CLOSET.
D - IMC 2018 SECTION 403.2 ALLOWS ASHRAE 62.1 IAQ PROCEDURE TO BE USED. MINIMUM 5 CFM PER PERSON. SEE BIPOLAR IONIZATION MODULE SCHEDULE.
E - EXHAUST RATE FOR JANITOR ROOM WITH SERVICE SINK - 35 CFM FOR ROOM.

ROOFTOP UNIT SCHEDULE																										
MARK	MFG	MOD. NO.	SUPPLY CFM	MIN. OSA CFM	ESP. IN. WC.	EVAP. FAN MOTOR HP	COOLING								HEATING				FUEL	EER2 (SEER2)	AFUE (COP)	UNIT VOLTS/PH	UNIT MCA	MAX OCP	WT. LBS.	REMARKS
							EDB	EWB	LDB	LWB	TMBH	SMBH	OSA DB / WB	EDB	LDB	MBH IN	MBH OUT									
ACU-1	DAIKIN	DP5GM4810031	1,600	150	0.8	1.00	80.0	67.0	55.0	54.9	47.5	35.6	96 / 77	64.2	110.5	100.0	80.0	N. GAS	(15.2)	80.0%	230 / 1	35.8	50	610	1,2,3,4,5,6,7,8,9,10,11	
ACU-2	DAIKIN	DP5GM4810031	1,600	150	0.8	1.00	80.0	67.0	55.0	54.9	47.5	35.6	96 / 77	64.2	110.5	100.0	80.0	N. GAS	(15.2)	80.0%	230 / 1	35.8	50	610	1,2,3,4,5,6,7,8,9,10,11	

1. PACKAGED GAS / ELECTRIC ROOFTOP UNIT WITH DDC UNIT CONTROLS, HIGH EFFICIENCY 15:20 SEER2, HORIZONTAL SUPPLY AND RETURN CONFIGURATION, R-32 REFRIGERANT, CONDENSER COIL HAIL GUARDS
2. INSULATED, GALVANIZED ROOF CURB, 14 INCH CURB HEIGHT TO ELEVATE UNIT ABOVE MECHANICAL PAD FOR HORIZONTAL DUCT CONNECTIONS
3. SINGLE, TWO-STAGE SCROLL COMPRESSOR WITH SOUND BLANKET, LOW AMBIENT OPERATION, CRANKCASE HEATER, FROSTAT AND ANTI-SHORT CYCLE TIMER
4. DIRECT DRIVE, TWO-STAGE AIR VOLUME SUPPLY FAN (ECM INDOOR BLOWER MOTOR)
5. DRY BULB ECONOMIZER WITH OUTSIDE AIR INLET WEATHER HOOD AND BAROMETRIC RELIEF. SET TO OPEN AT 55 DEG. F.
6. GAS HEAT, TWO-STAGE, STAINLESS STEEL, HEAT EXCHANGER WITH DIRECT SPARK IGNITION
7. THRU-BASE ELECTRICAL, SINGLE SOURCE POWER ENTRY.
8. TOOL-LESS ENTRY, HINGED ACCESS DOORS, FILTER RACKS FOR 2" FILTERS, MERV 8 PLEATED FILTER MEDIA
9. FACTORY MOUNTED DDC UNIT CONTROLLER, PROGRAMMABLE THERMOSTAT WITH SEVEN DAY SCHEDULE, HEAT-COOL-AUTO-OFF AND FAN AUTO-OFF MODES
10. HARD START KIT FOR SINGLE PHASE UNIT
11. MECHANICAL CONTRACTOR TO INSTALL DUCT MOUNTED SMOKE DETECTOR FURNISHED BY DIVISION 26. FIRE ALARM WIRING TO SMOKE DETECTOR BY DIVISION 26.
LOW VOLTAGE CONTROL WIRING FOR FAN SHUTDOWN BY DIVISION 23. UNIT SHALL BE DISABLED BY THE BUILDING FIRE ALARM SYSTEM UPON INITIATION OF A FIRE ALARM.

DUCTLESS SPLIT-SYSTEM AIR-CONDITIONING UNIT SCHEDULE																												
MARK	MFR.	INDOOR UNIT												OUTDOOR UNIT												LINE SIZE		REMARKS
		MOD. NO.	CFM	CLG. MBH	SENS. MBH	HTG. MBH	L	W	H	WEIGHT	VOLTS / PH / FLA	MCA	MOCP	MARK	MOD. NO.	CLG.MBH	HTG. MBH	SEER2	L	W	H	WEIGHT	VOLTS/PH	MCA	MOCP	RL	RS	
MSE-1	DAIKIN	FTXF12BVJU9	399	12.0	9.9	13.5	30.6	8.8	11.3	21	208-230 /1/ 0.3	-	-	MSCU-1	RXF12VJU9	12.0	13.5	21.0	28.2	11.3	21.6	75	208-230 / 1	14.6	15.0	1/4	3/8	1,2,3,4,5,6

1. WALL MOUNTED INDOOR UNIT FOR AIR-TO-AIR HEAT PUMP OPERATION (R-32) WITH REMOTE CONDENSING UNIT
2. INTEGRAL CONDENSATE PUMP
3. SIX-YEAR COMPRESSOR / ONE-YEAR PARTS WARRANTY
4. HARD WIRED REMOTE CONTROLLER, PROGRAMMABLE (THERMOSTAT).
5. HEAT PUMP CONDENSING UNIT, SINGLE-ZONE CONNECTION, INVERTER TYPE COMPRESSOR, TO PROVIDE VARIABLE REFRIGERANT FLOW FOR CAPACITY CONTROL
6. INDOOR UNIT POWERED FROM OUTDOOR UNIT, 208-230 VOLT, SINGLE PHASE

AIR DISTRIBUTION SCHEDULE								
MARK	MFG	SYSTEM	MOD. NO.	FACE TYPE	FACE SIZE	MOUNTING	MATERIAL	REMARKS
S1	PRICE	SUPPLY	SPD	PLAQUE	24x24	LAY-IN	STEEL	1,2,3,4
R1	PRICE	RETURN	96	LOUVER	28x24	SIDE-WALL	STEEL	1,2,6
T1	PRICE	TRANSFER	PDDR	PERFORATED	24x24	LAY-IN	STEEL	1,2,3,4,5
T2	PRICE	TRANSFER	S20	LOUVER	14x14	SIDE-WALL	STEEL	1,2,6

- GENERAL NOTES:
A. NECK SIZE AS NOTED ON PLANS
B. UTILIZE COUNTER SUNK SCREWS FINISHED TO MATCH AIR DISTRIBUTION
C. CONTRACTOR TO VERIFY TYPE OF MOUNTING
1. COLOR TO MATCH ACoustICAL CEILING GRID OR WALL COLOR, SEE ARCHITECTURAL FOR COORDINATION
2. POWDER COATED FINISH
3. PROVIDE SURFACE MOUNT ADAPTER FRAME WHERE INSTALLED IN GYPSUM OR HARD CEILING
4. PROVIDE INSULATED BACK PAN/PLENUM
5. PROVIDE A FLAT BLACK FINISH INSIDE BACK PAN OR PLENUM.
6. BLADE SPACING 3/4", 45 DEGREE BLADE ANGLE

LOUVER SCHEDULE								
MARK	MFG.	MOD. NO.	W X H (INCHES)	CFM	MAX PD (IN. WG)	FREE AREA (SF)	MAT'L	REMARKS
L-1	GREENHECK	EAC-601	48 x 24	1,800	0.07	2.38	ALUM.	1,2,3,4,5
L-2	GREENHECK	EAC-601	48 x 24	1,800	0.07	2.38	ALUM.	1,2,3,4,5
L-3	GREENHECK	EAC-601	48 x 36	2,400	0.03	4.90	ALUM.	1,2,3,4,5
L-4	GREENHECK	AFL-501	14 x 14	175	0.06	0.37	ALUM.	6,7
L-5	GREENHECK	AFL-501	14 x 14	175	0.06	0.37	ALUM.	6,7

1. DRAINABLE STATIONARY & OPERABLE BLADES WITH EXTRUDED VINYL BLADE SEALS, 6063T5 EXTRUDED ALUMINUM, .081" NOMINAL DIMENSIONS
2. HEAVY GAUGE, 6063T5 EXTRUDED ALUMINUM FRAME, 6" X .125" NOMINAL DIMENSIONS
3. ALUMINUM BIRD SCREEN
4. COMBINATION LOUVER DAMPER WITH TWO-POSITION DAMPER ACTUATOR, POWERED OPEN, SPRING RETURN, FAILED POSITION CLOSED, FACTORY-INSTALLED 120 VOLT ACTUATOR.
5. LOUVER WITH KYNAR FINISH, COLOR SELECTED BY ARCHITECT
6. MILL FINISHED, STATIONARY STORM LOUVER, FEMA 361 COMPLIANT
7. RECESSED / FLUSH MOUNT WITH JAMB ANCHORAGE

POWER VENTILATOR SCHEDULE															
MARK	MFG.	MOD. NO.	CFM	ESP	HP (AMPS)	V / PH	RPM	MAX. FRPM	SONES	MOUNTING	FAN TYPE	DRIVE	WT. (LBS.)	REMARKS	
EF-1	GREENHECK	SP-B90	70	0.25	(0.19)	115 / 1	1725	690	1.3	CEILING	CABINET	DIRECT	15	1,2,3,4,5,6,7	
EF-2	GREENHECK	SP-B90	70	0.25	(0.19)	115 / 1	1725	690	1.3	CEILING	CABINET	DIRECT	15	1,2,3,4,5,6	
EF-3	GREENHECK	SP-B50	35	0.25	(0.13)	115 / 1	1725	530	1.5	CEILING	CABINET	DIRECT	10	1,2,3,4,5,6	
EF-4	GREENHECK	SE1-16-421-VG	1,800	0.25	1/2	115 / 1	1725	1,585	13.0	SIDEWALL	PROP.	DIRECT	125	8,9,10,11,12	
EF-5	GREENHECK	SE1-16-421-VG	1,800	0.25	1/2	115 / 1	1725	1,585	13.0	SIDEWALL	PROP.	DIRECT	125	8,9,10,11,12	
EF-6	GREENHECK	BSQ-140	2,400	1.00	1.0	230 / 1	1725	1,615	15.9	IN-LINE	CENTRIFUGAL	BELT	160	13,14,15,16,17,18,19,20	

1. GALVANIZED STEEL HOUSING WITH SINGLE INLET FORWARD CURVED WHEEL
2. MOTOR TO HAVE INTERNAL THERMAL OVERLOAD PROTECTION
3. WHITE, NON-YELLOWING GRILLE
4. ROUND DUCT OUTLET WITH INTEGRAL BACKDRAFT DAMPER
5. ELECTRIC SPEED CONTROLLER, INTERNALLY MOUNTED AND WIRED
6. ADJUSTABLE MOUNTING BRACKET
7. HOODED WALL CAP, ALUMINUM, WITH BUILT-IN BIRDSCREEN AND BACKDRAFT DAMPER, MODEL WC-8 (FOR EF-1,2 AND 3 DISCHARGE)
8. EXHAUST FAN, LONG WALL HOUSING WITH FLUSH EXTERIOR, OSHA GUARD, AND CLOSURE ANGLES
9. EC MOTOR WITH SPEED DIAL FOR BALANCING, NEMA 1 TOGGLE TYPE DISCONNECT SWITCH MOUNTED AND WIRED
10. MOTORIZED DAMPER WITH END SWITCH, 115 VAC DAMPER ACTUATOR, POWER OPEN-SPRING CLOSE
11. LINE VOLTAGE, WALL MOUNT THERMOSTAT 40-110 DEG. F. RANGE, WITH HAND-OFF-AUTO SWITCH. SET TO START AT 85 DEG. F. (ADJUSTABLE)
12. WEATHERHOOD, ALUMINUM 45 DEG. WITH BIRDSCREEN
13. GALVANIZED STEEL HOUSING, BOLTED ACCESS PANEL, INTEGRAL DUCT FLANGES, BACKWARD INCLINED ALLUMINUM WHEEL
14. FACTORY MOUNTED, NEMA 1 DISCONNECT
15. ADJUSTABLE MOTOR PULLEY AND PLATE, FAN SHAFT MOUNTED ON BALL BEARING PILLOW BLOCKS
16. BEARING WITH GREASE FITTING
17. INSULATION 1.0 INCH THICK FOR FAN HOUSING AND MOTOR COVER (SOUND ATTENUATION)
18. GALVANIZED STEEL MOTOR COVER
19. SPRING HANGING ISOLATORS AND BRACKETS
20. WEATHERHOOD, ALUMINUM 45 DEG. WITH BIRDSCREEN, MODEL WTHD-18. SEE PLANS FOR MOUNTING LOCATION IN WALL.

GAS UNIT HEATER SCHEDULE											
MARK	MFG	MOD. NO.	BTUH INPUT	BTUH OUTPUT	CFM	HP	VOLTS/PH/A	COMB. AIR CONN.	VENT SIZE	WT. (LBS.)	REMARKS
GUH-1	MODINE	HDC-60	60,000	49,200	1,000	1/4	120V / 1 / 7.05	4"	4"	95	1,2,3,4,5,6,7
GUH-2	MODINE	HDC-60	60,000	49,200	1,000	1/4	120V / 1 / 7.05	4"	4"	95	1,2,3,4,5,6,7

1. BLOWER TYPE, DIRECT DRIVE, NATURAL GAS-FIRED UNIT HEATER, TWO-STAGE HEAT, SEPARATED COMBUSTION
2. ADJUSTABLE AIR DEFLECTOR BLADES
3. NATURAL GAS, ALUMINIZED STEEL BURNER WITH FACTORY-INSTALLED POWER EXHAUSTER
4. GAS VALVE MAXIMUM INLET PRESSURE, 14 IN. WC.
5. DIRECT SPARK IGNITION, 100% SHUT-OFF WITH CONTINUOUS RETRY
6. VERTICAL CONCENTRIC VENT KIT FOR THRU ROOF INSTALLATION, INSTALL DOUBLE WALL B-VENT FLUE PER MANUFACTURER REQUIREMENTS.
7. BLOWER TYPE, DIRECT DRIVE, NATURAL GAS-FIRED UNIT HEATER, TWO-STAGE HEAT, SEPARATED COMBUSTION

GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR. COORDINATE REQUIREMENTS FOR ALL WALL, FLOOR AND ROOF PENETRATIONS WITH STRUCTURAL DRAWINGS.
2. COORDINATE DUCT AND PIPE ROUTING WITH ALL TRADES PRIOR TO BEGINNING CONSTRUCTION.
3. PROVIDE TURNING VANES FOR ALL 90° ELBOWS.
4. PROVIDE ACCESS DOORS FOR ALL CONTROL, FIRE, AND FIRE SMOKE DAMPERS.
5. ALL MATERIALS EXPOSED TO RETURN AIR PATH SHALL BE NONCOMBUSTIBLE.
6. ALL CONTROL, WIRING, LOW VOLTAGE AND LINE VOLTAGE, BOTH INTERIOR AND EXTERIOR, SHALL BE ROUTED IN CONDUIT. SEE SPECIFICATION SECTION 56032 "TRACEMAYS AND BOXES" FOR CONDUIT REQUIREMENTS.
7. ALL METAL, ROUND, DUCT SHALL BE SINGLE WALL, ROUND, SPIRAL LOCK-SEAM DUCT WITH FORMED FITTINGS, UNLESS NOTED OTHERWISE.
8. THE MECHANICAL CONTRACTOR SHALL COORDINATE TESTING, ADJUSTING AND BALANCING SCHEDULES WITH THE TAB AGENT.
9. THE MECHANICAL CONTRACTOR MAY SUBSTITUTE ROUND OR RECTANGULAR DUCTWORK AS REQUIRED, PROVIDED NET INTERIOR FREE AREAS ARE MAINTAINED. ALL DUCT SIZES LISTED ON THE CONSTRUCTION DOCUMENTS ARE NET INTERIOR FREE AREA.
10. PROVIDE FLEXIBLE CONNECTIONS FOR ALL DUCT AND PIPE CONNECTIONS TO EQUIPMENT FOR VIBRATION ISOLATION.
11. REVIEW ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS OF RATED ASSEMBLIES. PROVIDE FIRE DAMPERS, FIRE CULLY AND COMPONENTS TO PROVIDE THE APPROPRIATE RATING FOR ALL RATED PENETRATIONS.
12. EQUIPMENT LAYOUT BASED ON SCHEDULED EQUIPMENT. PROVIDE MANUFACTURER'S RECOMMENDED SERVICE AND ACCESS SPACE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE EQUIPMENT SPACE IS AVAILABLE FOR APPROVED ALTERNATE VENDORS. SEE SPECIFICATIONS FOR A LIST OF APPROVED VENDORS.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING A BID. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DOCUMENTS MAY INCLUDE INSTRUCTIONS FOR ANY TRADE INVOLVED IN THE CONSTRUCTION PROCESS.

KEYNOTES

1. BOTTOM OF L-1 & L-2 TO BE MOUNTED 2'-0" A.F.F. ACTUATOR TO BE INTERLOCKED WITH EF-4 & EF-5 RESPECTIVELY.
2. BOTTOM OF L-3 TO BE MOUNTED 9'-0" A.F.F. ACTUATOR TO BE INTERLOCKED WITH EF-6.
3. BOTTOM OF WEATHER HOOD TO BE MOUNTED 11'-0" A.F.F.
4. BOTTOM OF EXHAUST FAN TO BE MOUNTED 10'-2" A.F.F.
5. BOTTOM OF WALL CAP TO BE MOUNTED 12'-5" A.F.F. SEE EXHAUST FAN SCHEDULE.
6. BOTTOM OF GAS UNIT HEATER TO BE MOUNTED 12'-0" A.F.F.
7. BOTTOM OF TRANSFER AIR GRILLE TO BE MOUNTED 8'-0" A.F.F.
8. SEE CIVIL SITE DRAWING FOR CONTINUATION OF NATURAL GAS PIPING.
9. PROVIDE 3'x2' CONCRETE HOUSEKEEPING PAD UNDER MCHU PAD SHALL BE A MINIMUM OF 6" LARGER THAN EQUIPMENT. EXTEND PAD TO BUILDING.
10. BOTTOM OF SIDEWALL RETURN GRILLE TO BE 8' A.F.F. COORDINATE INSTALLATION WITH FINISHING.
11. SLEEVE REFRIGERANT PIPING THROUGH EXTERIOR WALL. SEAL PENETRATION WEATHER TIGHT. DO NOT CRIMP INSULATION.
12. BOTTOM OF INDOOR MIN SPLIT TO BE MOUNTED 7'-0" A.F.F.
13. BOTTOM OF EXHAUST FAN TO BE MOUNTED 8'-0" A.F.F.
14. PROVIDE METER AND REGULATOR SIZED FROM SERVICE PRESSURE TO 1/2 PSIG AT 20 CFH. CONTRACTOR TO COORDINATE METER INSTALLATION WITH NATURAL GAS SERVICE PROVIDER. THE CITY OF RIPLEY GAS, WATER AND WASTE WATER (731) 635-1232. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH NEW NATURAL GAS SERVICE.
15. PROVIDE GALVANIZED HARDWARE CLOTH 1" X 1" (14 GA. WIRE) TO COVER WALL OPENING. SEE SHEET M4.2 FOR DETAIL.
16. PROVIDE 14" HIGH FULL PERIMETER CURB. ROUTE DUCTWORK ABOVE CONCRETE PAD AND PENETRATE EXTERIOR WALL. PROVIDE 3'x2' CONCRETE HOUSEKEEPING PAD UNDER ACU'S. CONCRETE PAD SIZE SHALL BE AT LEAST 1'-2" LARGER ON ALL SIDES OF EQUIPMENT. EXTEND PAD TO BUILDING.
17. ROUTE ACU-1 & 2 CONDENSATE DRAIN TO GRAVEL SUMP NEXT TO THE HOUSE KEEPING PAD. PROVIDE GALVANIZED UN-STRUT PIPE SUPPORT. SLOPE PIPING TO DISCHARGE POINT.
18. CONNECT TO CONDENSATE DRAIN PROVIDED BY PLUMBING CONTRACTOR. COORDINATE LOCATION AND HEIGHT WITH PLUMBING CONTRACTOR.
19. BOTTOM OF EXHAUST FAN TO BE MOUNTED 10'-5" A.F.F. SEE ELECTRICAL FOR MOTOR STARTER LOCATION.
20. PROVIDE WELDING HOOD. HOOD SHALL BE CONSTRUCTED OF 16 GA. GALVANIZED STEEL, APPROXIMATELY 4' x 4'. SEE DETAIL ON SHEET M4.3.
21. PROVIDE WALL SLEEVES THROUGH STORM SHELTER. SLEEVE SHALL NOT BE LONGER THAN 2'-0".

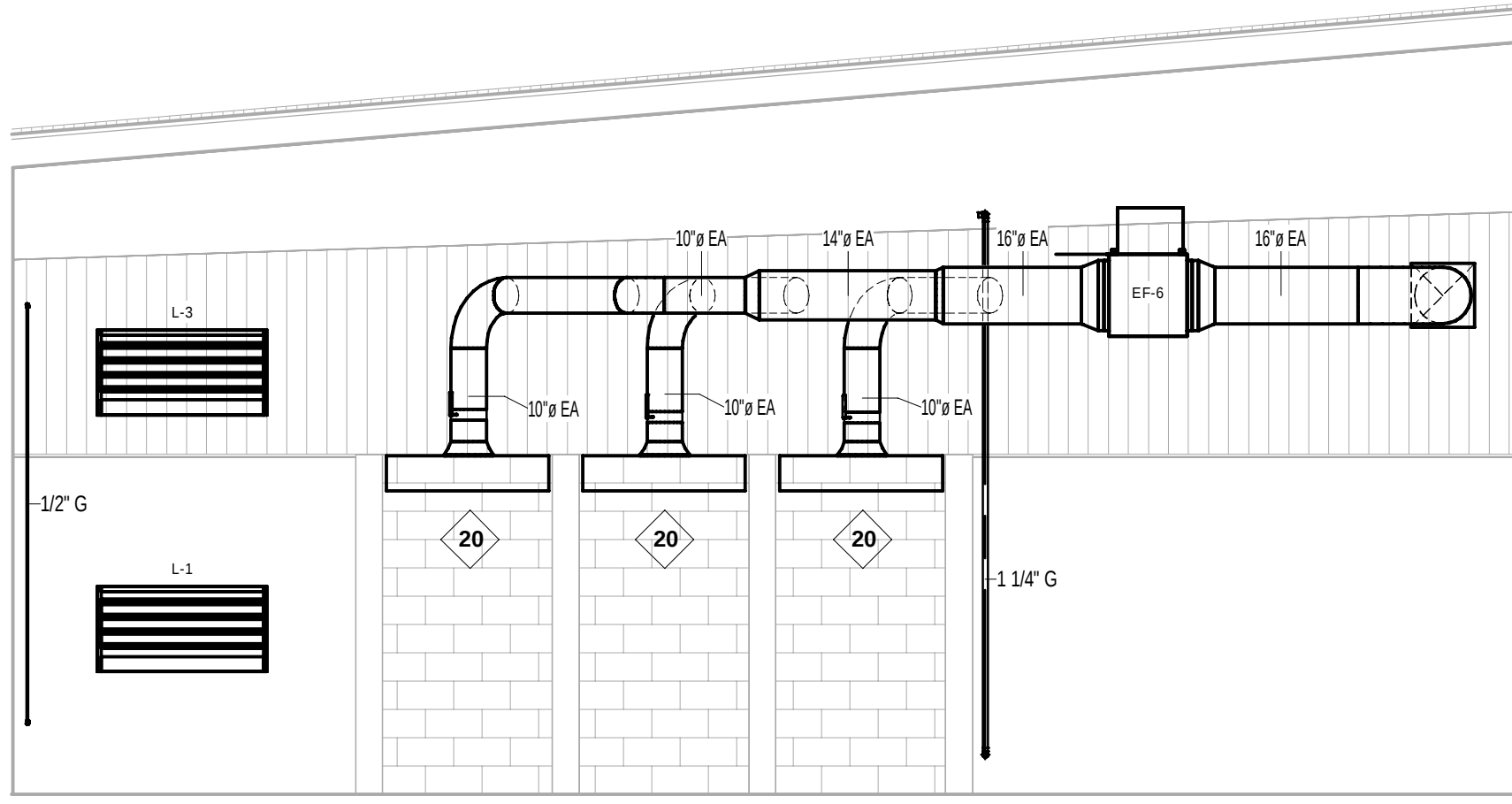
DUCT PRESSURE CLASSIFICATIONS

MEDIUM PRESSURE SUPPLY DUCT	
AH/Discharge to Terminal Units	4.0 IN. WC
Flat Oval and Round Duct Leakage Class -	C, 3
Rectangular Duct Leakage Class -	C, 6

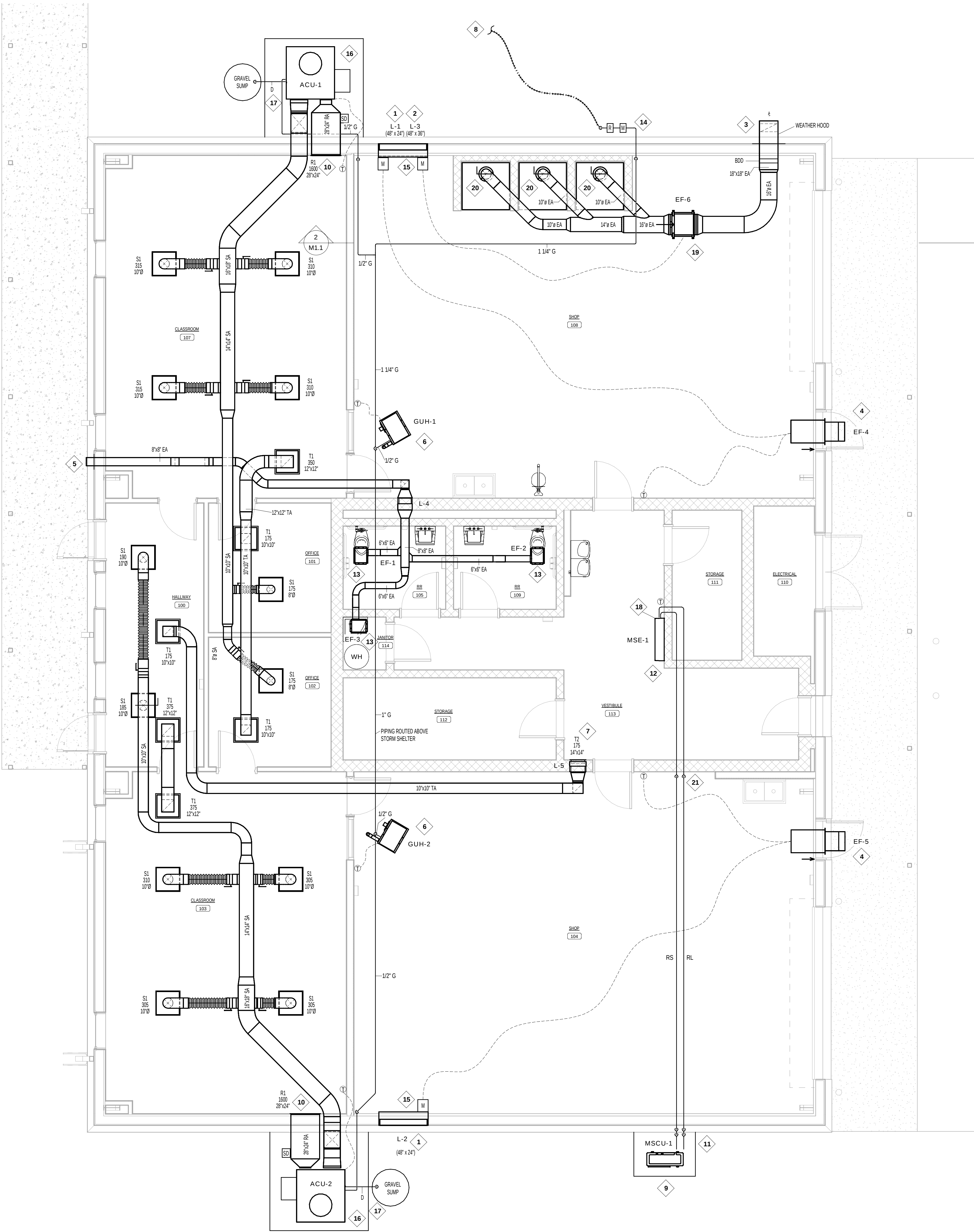
LOW PRESSURE DUCT	
Supply Duct (Downstream of Terminal Units)	2.0 IN. WC
Return Duct	2.0 IN. WC
Exhaust Duct	2.0 IN. WC
Outside Air Duct	2.0 IN. WC
Flat Oval and Round Duct Leakage Class -	C, 3
Rectangular Duct Leakage Class -	C, 12

ALL DUCTWORK SHALL BE SEALED AND TESTED FOR LEAKAGE PER SPECIFICATION SECTION 228113 - "METAL DUCTS". ALL TESTS ARE TO BE PERFORMED BEFORE EXTERIOR INSULATION IS APPLIED.

ALL DUCTWORK SHALL BE SEALED AND TESTED FOR LEAKAGE PER SPECIFICATION SECTION 228113 - "METAL DUCTS". ALL DUCT AIR LEAKAGE TESTS ARE PERFORMED BY THE MECHANICAL CONTRACTOR AND WITNESSED BY THE TAB AGENT BEFORE EXTERIOR INSULATION IS APPLIED.



2 WELDING STATION SECTION VIEW
M1.1 1/4" = 1'-0"



1 MECHANICAL FLOOR PLAN
M1.1 1/4" = 1'-0"



PROVIDE LABELING AT MOTOR STARTER FOR EF-6.

EF-4 AND L-1 FOR SHOP VENTILATION - SEQUENCE OF OPERATION

PROVIDE LABELING AT THERMOSTAT FOR CONTROL SET POINT.

ACU-1 & 2 SEQUENCE OF OPERATION

THE BUILDING FIRE ALARM SYSTEM SHALL SHUT DOWN THE ACU UPON INITIATION OF THE FIRE ALARM SYSTEM.

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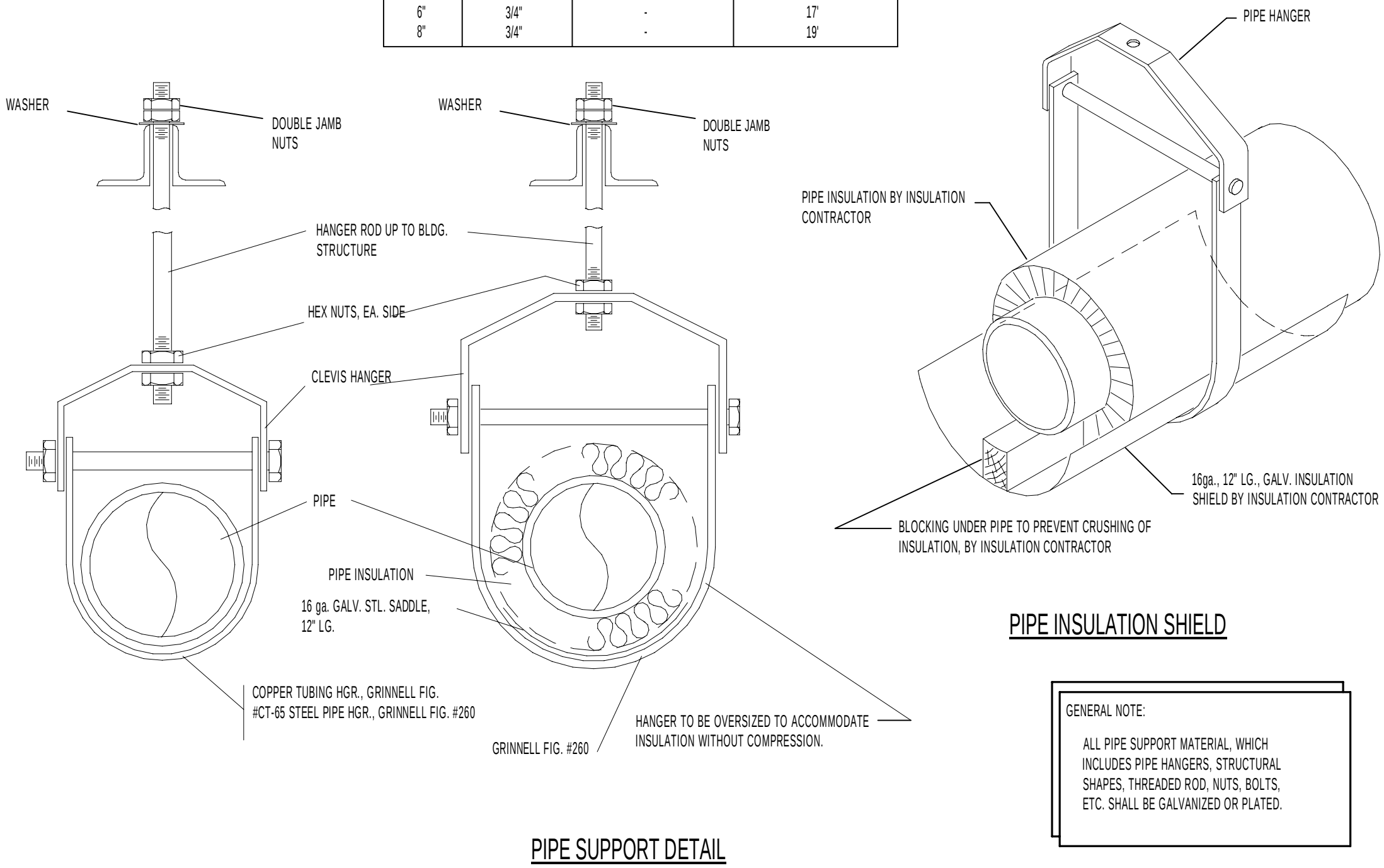
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MECHANICAL
CHEMATICS

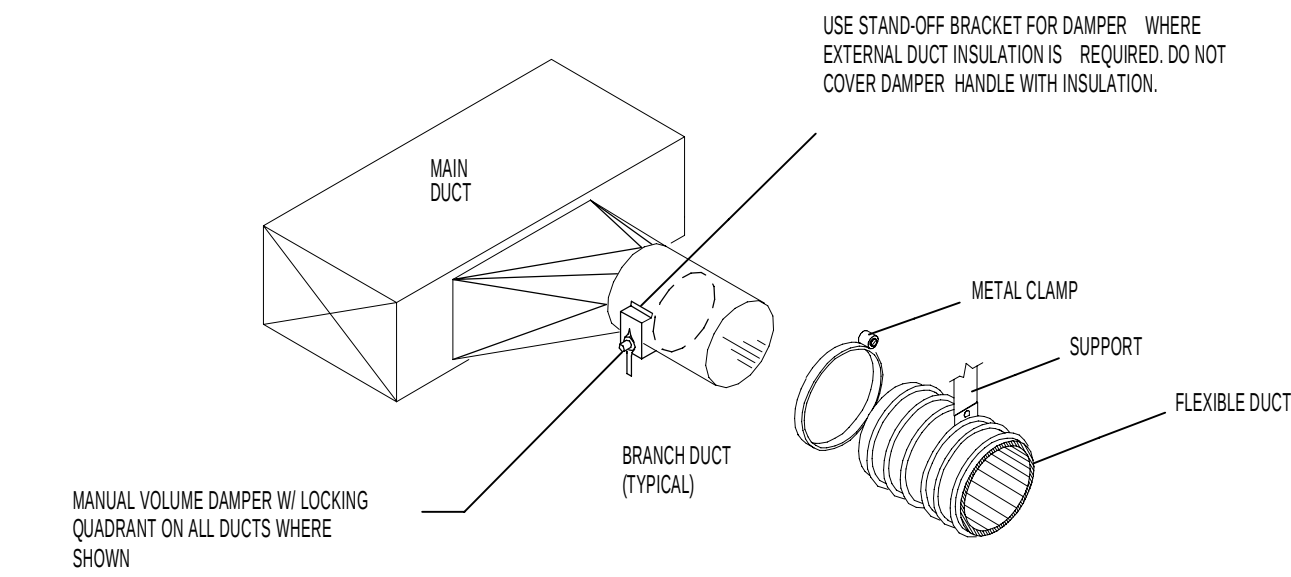
PIPE SIZE	ROD SIZE	MAX. HOR. SPC. COPPER PIPE	MAX. HOR. SPC. STEEL PIPE
1/2"	3/8"	5'	5'
3/4"	3/8"	5'	6'
1"	3/8"	5'	7'
1 1/4"	3/8"	7'	8'
1 1/2"	3/8"	8'	9'
2"	3/8"	8'	10'
2 1/2"	1/2"	9'	11'
3"	1/2"	10'	12'
4"	5/8"	-	14'
5"	5/8"	-	15'
6"	3/4"	-	17'
8"	3/4"	-	19'



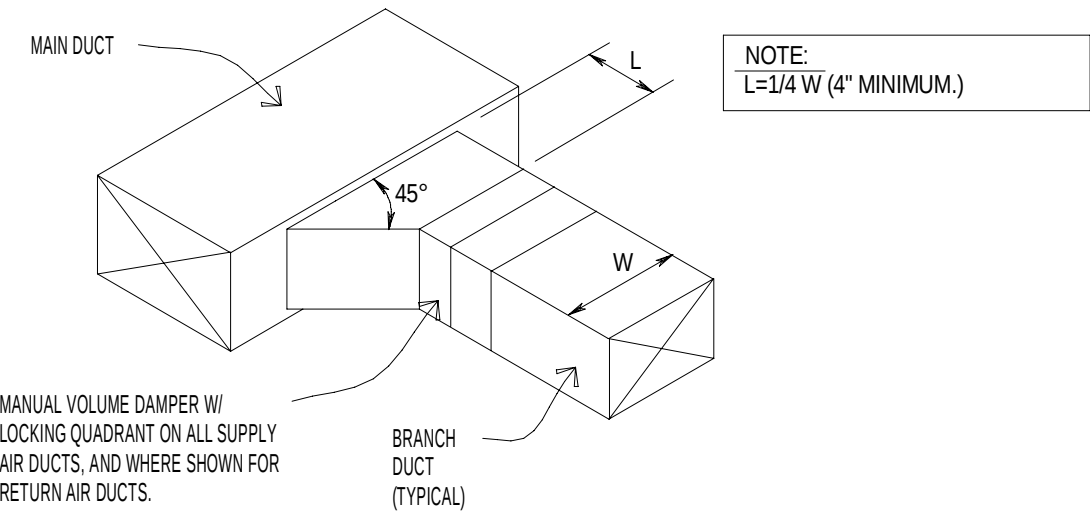
PIPE INSULATION SHIELD

GENERAL NOTE:
ALL PIPE SUPPORT MATERIAL, WHICH INCLUDES PIPE HANGERS, STRUCTURAL SHAPES, THREADED ROD, NUTS, BOLTS, ETC. SHALL BE GALVANIZED OR PLATED.

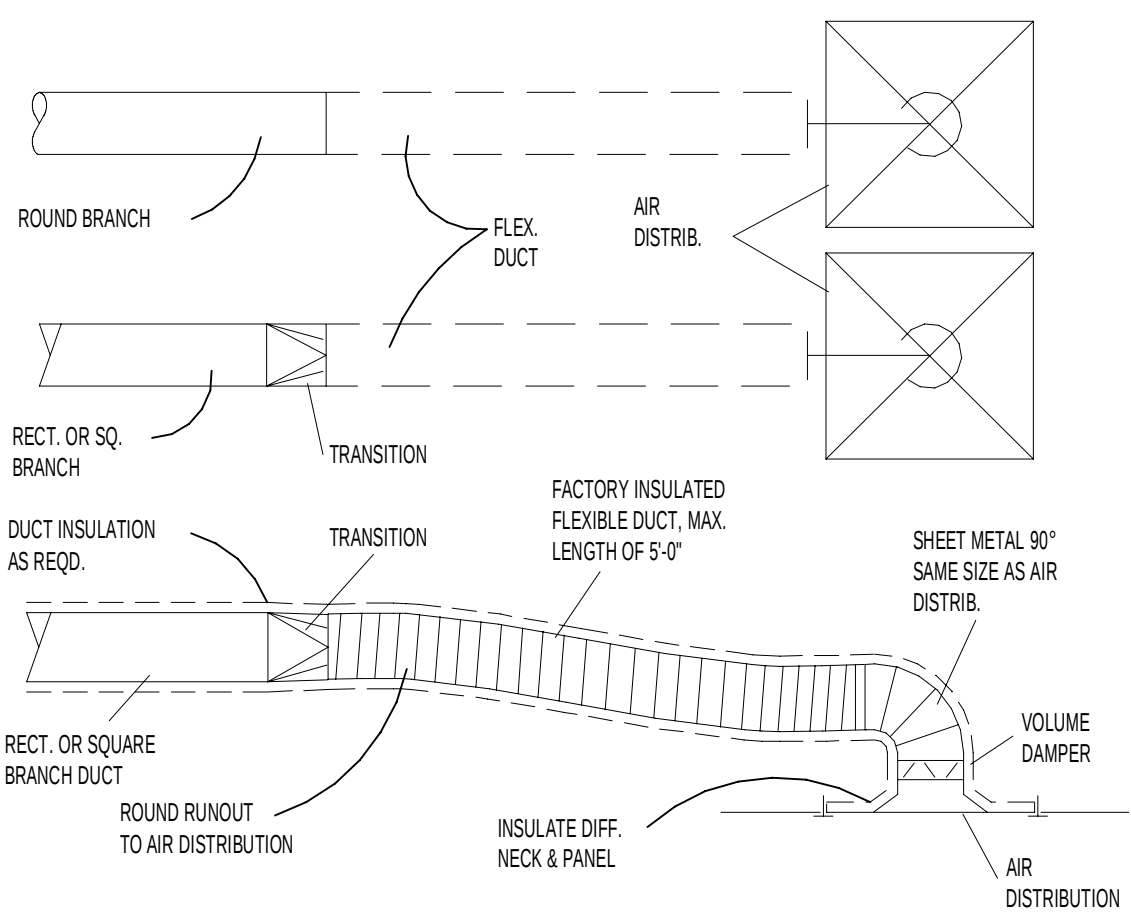
45° BRANCH DUCT TAKE-OFF



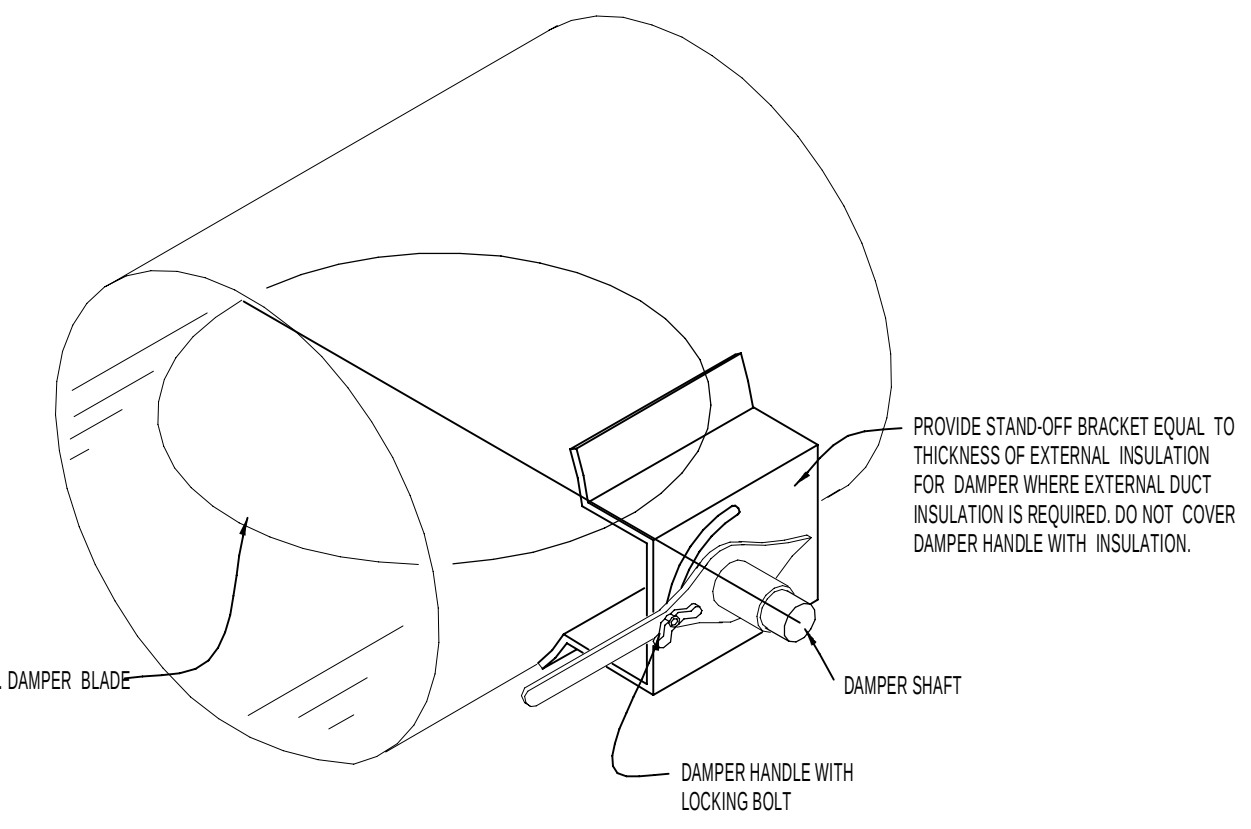
45° BRANCH DUCT TAKE-OFF



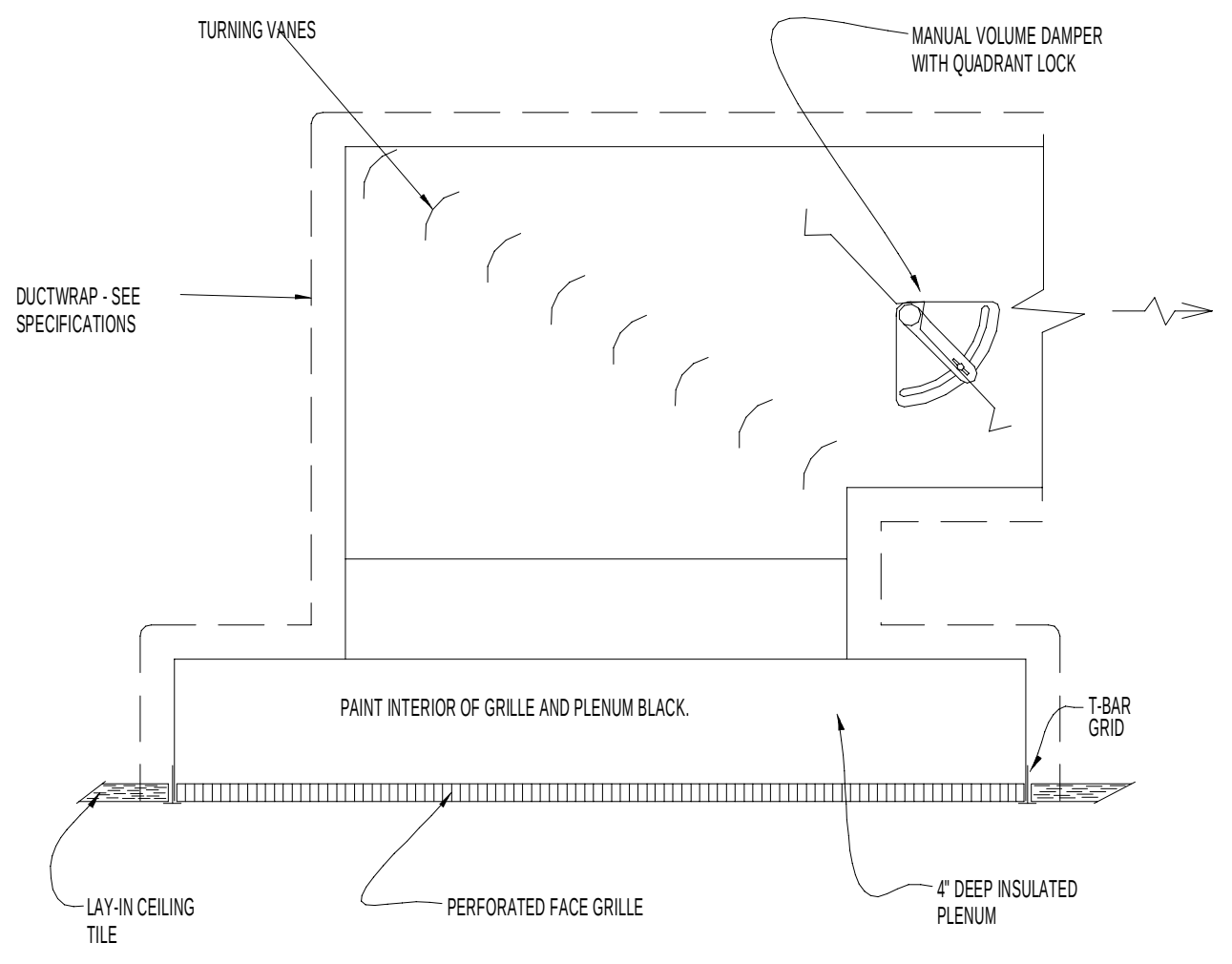
AIR DISTRIBUTION CONNECTION



SINGLE BLADE BALANCING DAMPER

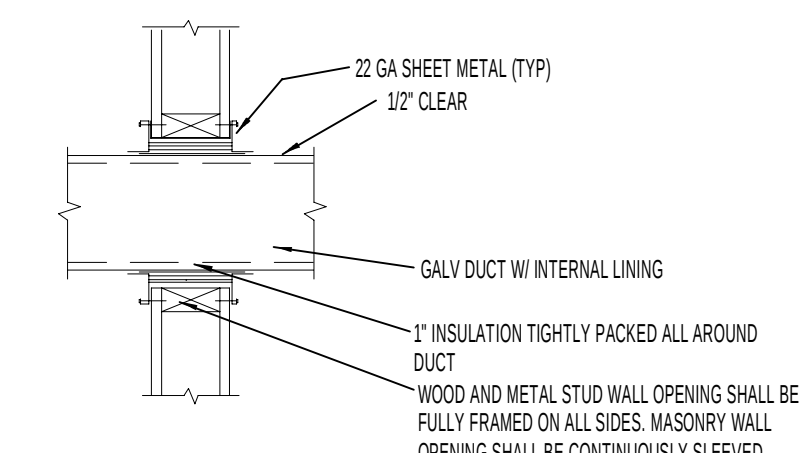


CEILING GRILLE DETAIL

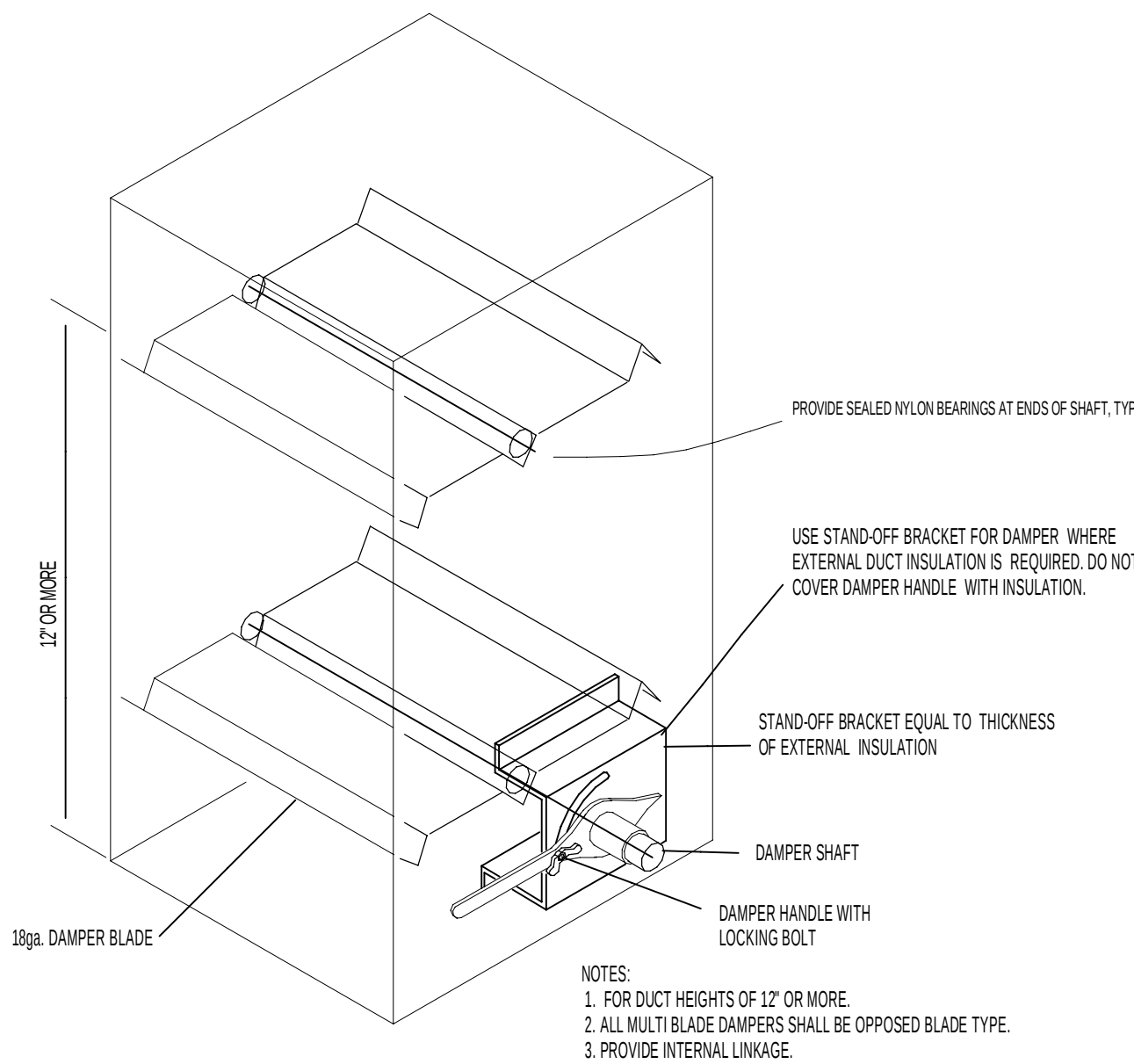


- NOTES:
1. DRYWALL, METAL STUDS OR ANY OTHER ROD MATERIAL MUST NOT TOUCH DUCT.
 2. SUPPORT DUCT FROM HANGERS FOR ACoustICAL CONTROL AND THERMAL MOVEMENT.

DUCT PENETRATION

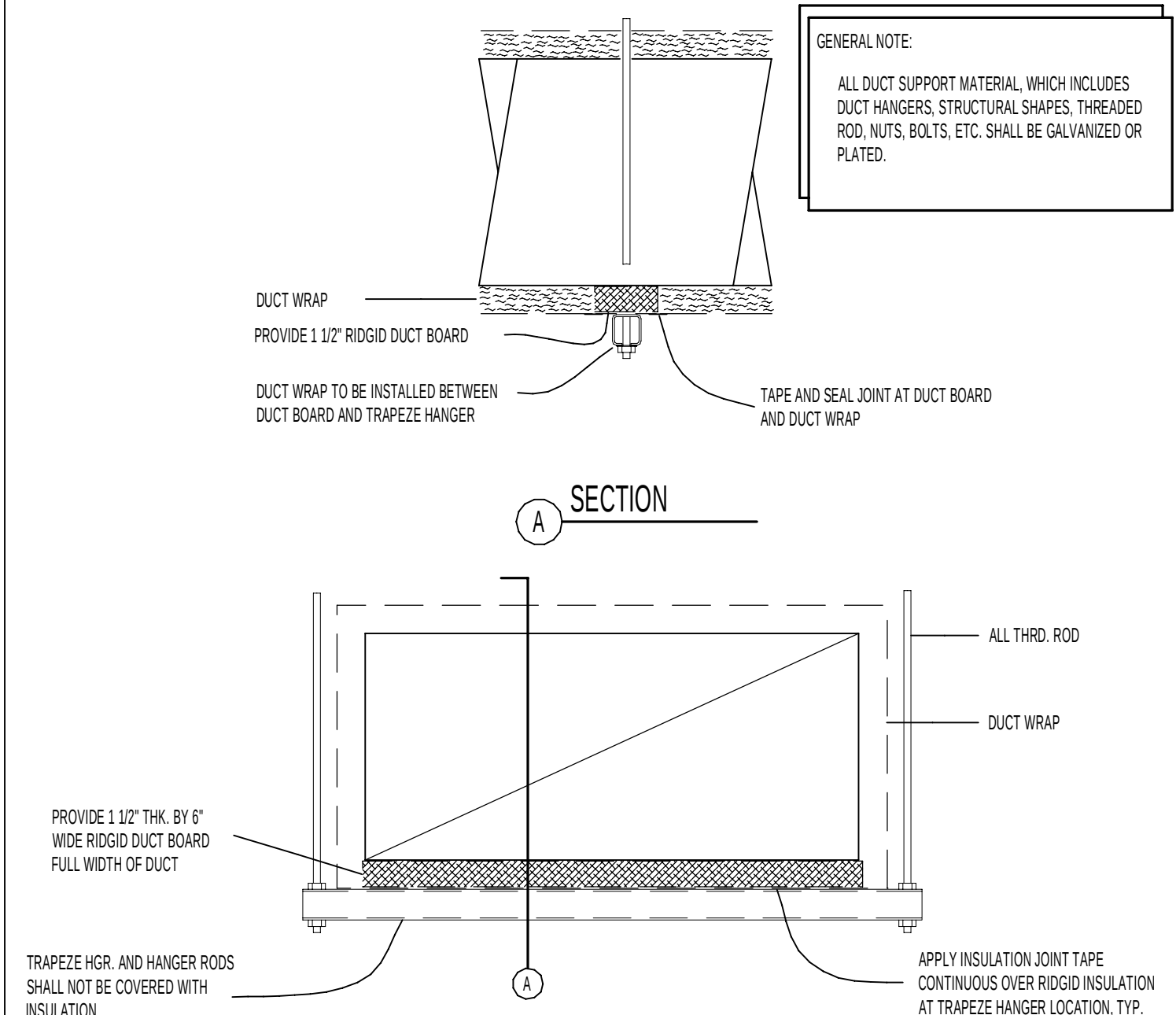


MULTI-BLADE BALANCING DAMPER

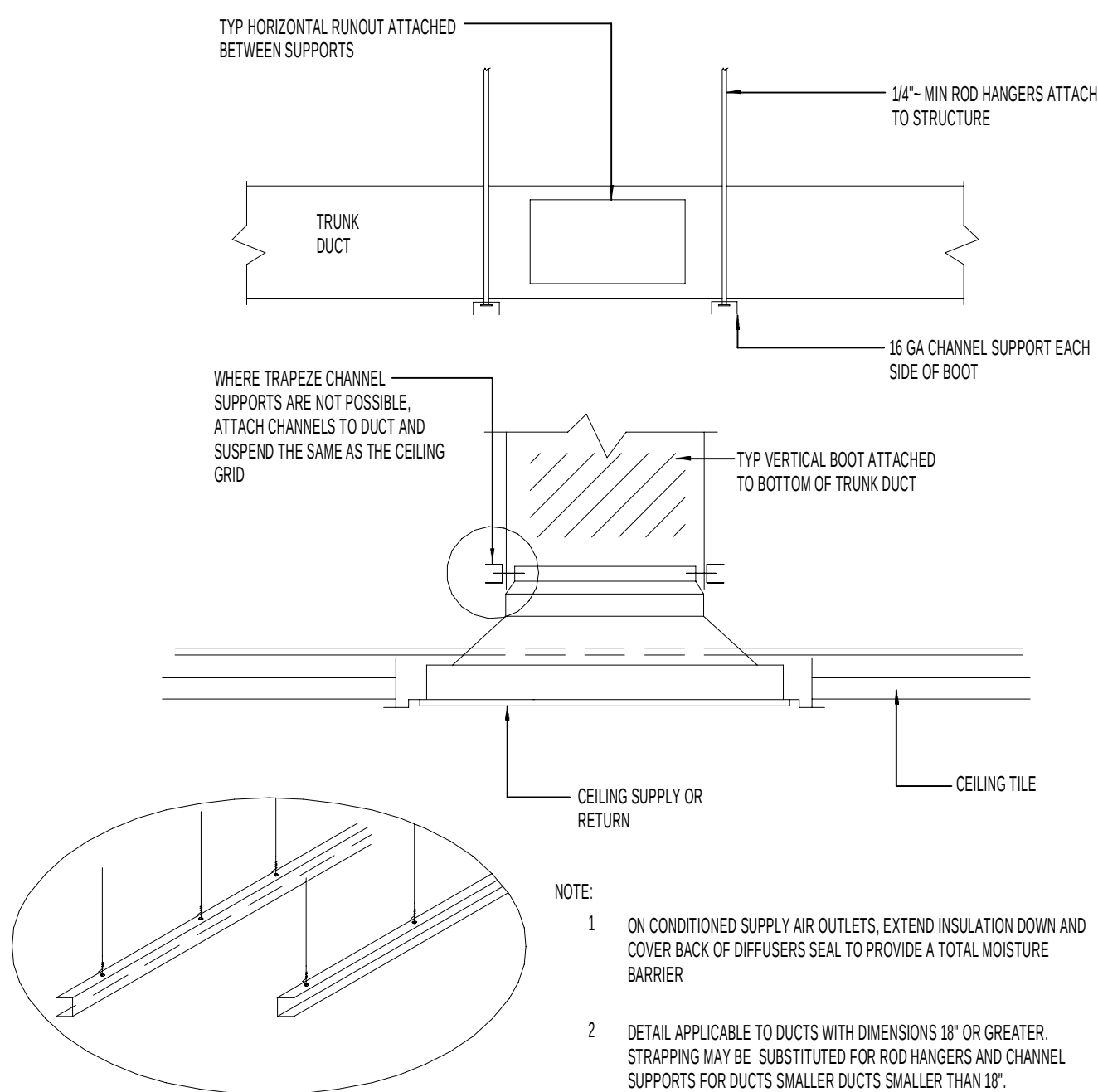


- NOTES:
1. FOR DUCT HEIGHTS OF 12\"/>

DUCT INSULATION DETAIL

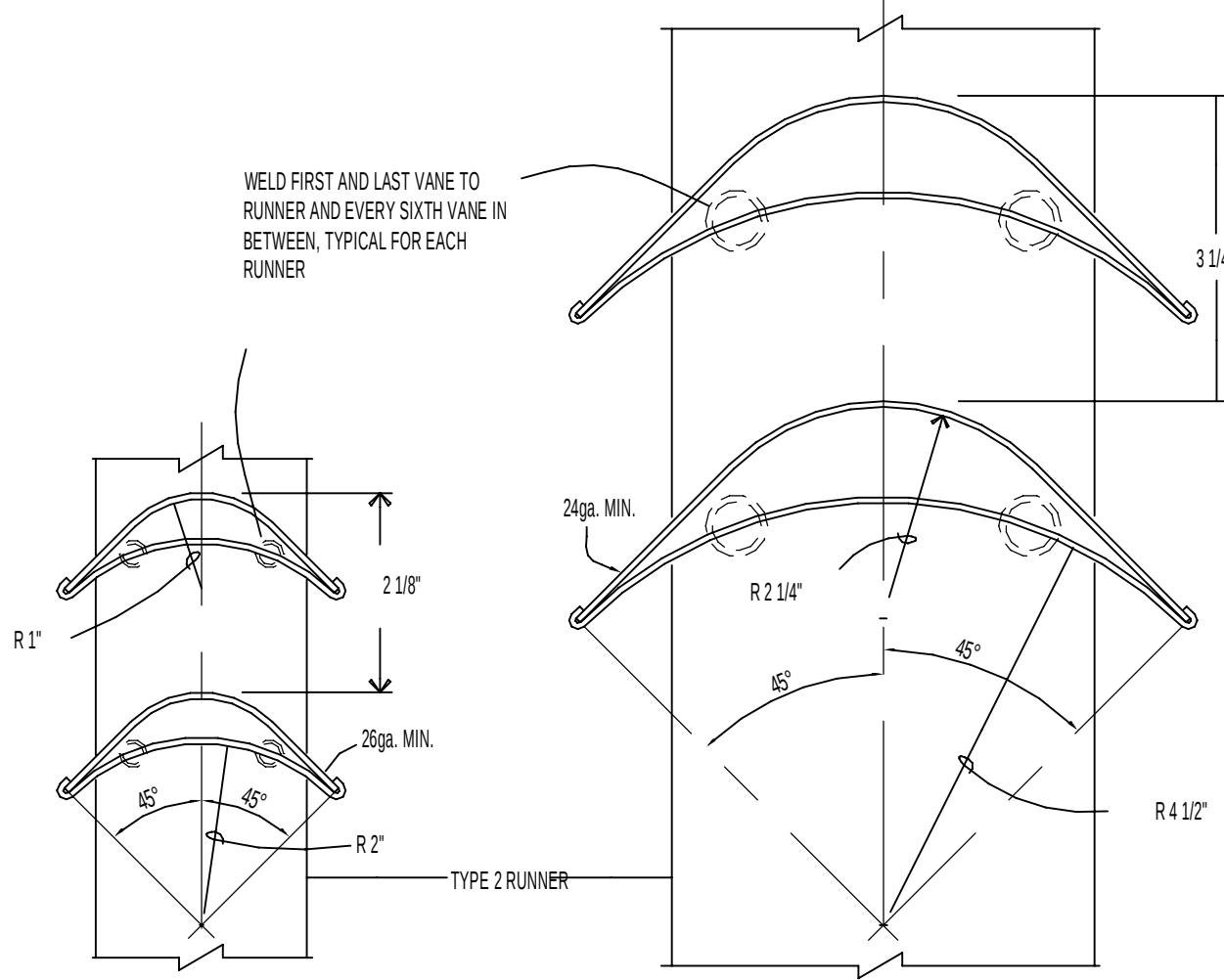


DUCT SUPPORT



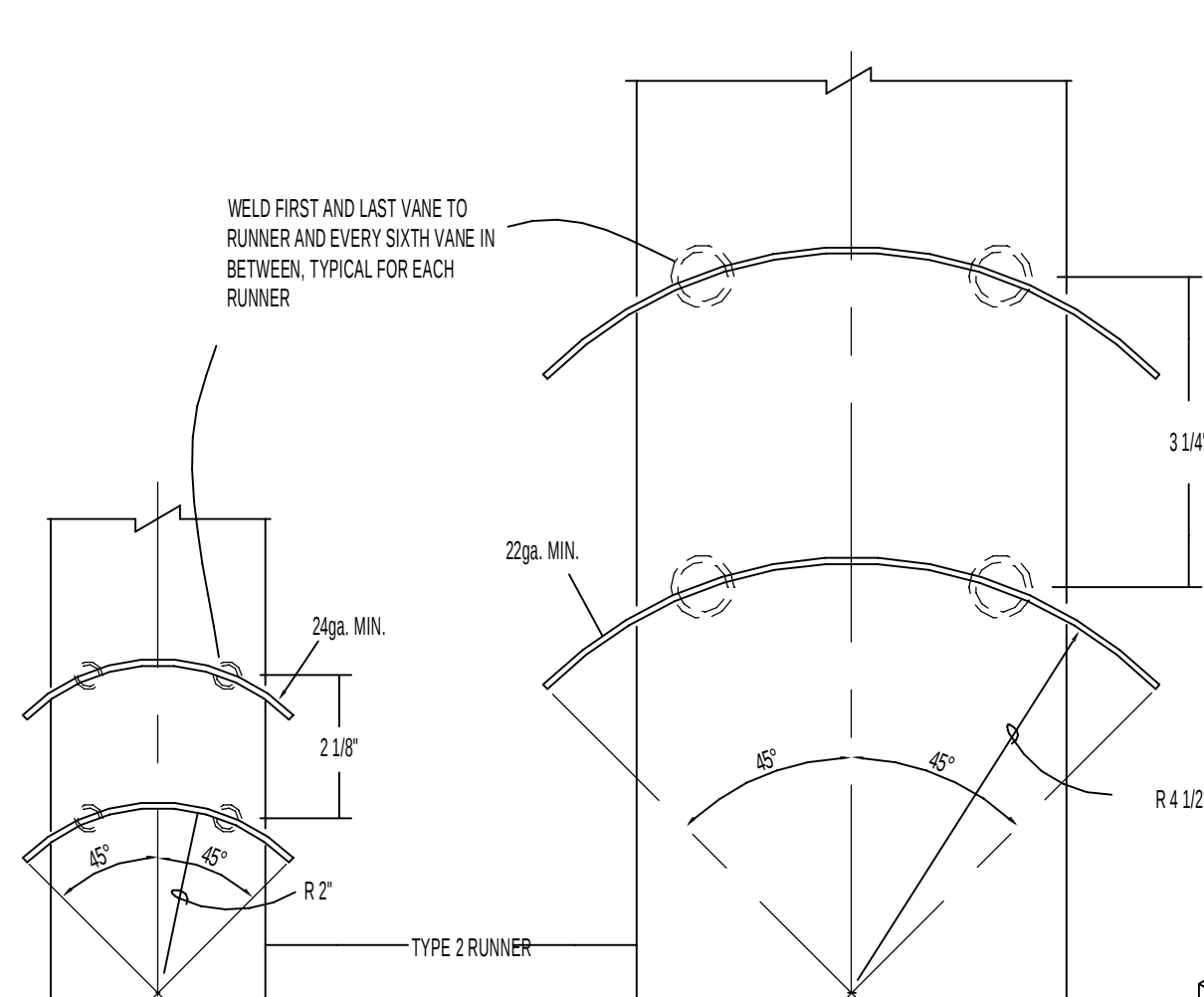
- NOTE:
1. ON CONDITIONED SUPPLY AIR OUTLETS, EXTEND INSULATION DOWN AND COVER BACK OF DIFFUSERS SEAL TO PROVIDE A TOTAL MOISTURE BARRIER.
 2. DETAIL APPLICABLE TO DUCTS WITH DIMENSIONS 36\"/>

SMALL DOUBLE VANE



LARGE DOUBLE VANE

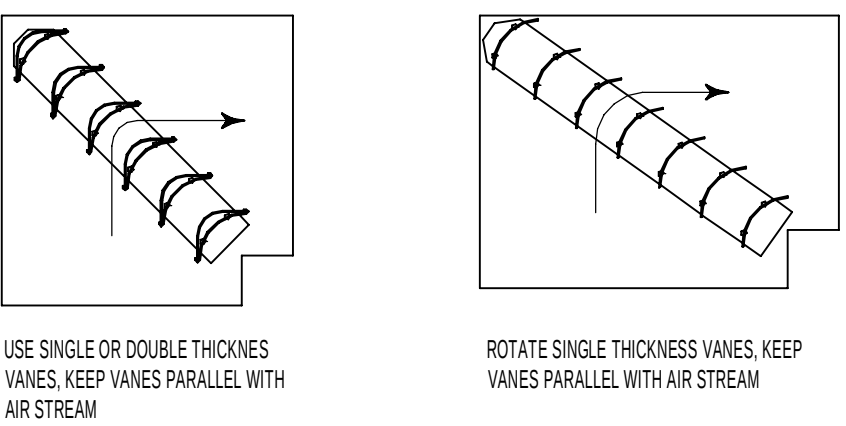
SMALL SINGLE VANE



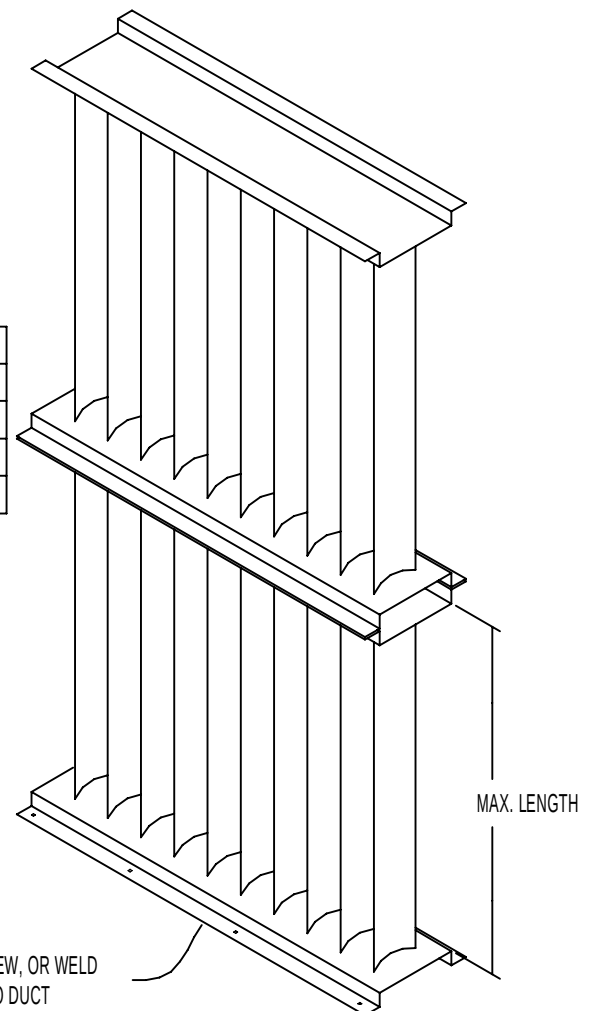
LARGE SINGLE VANE

VANE TYPE	MAX. LTH.
SMALL SINGLE VANE	36"
LARGE SINGLE VANE	36"
SMALL DOUBLE VANE	48"
LARGE DOUBLE VANE	72"

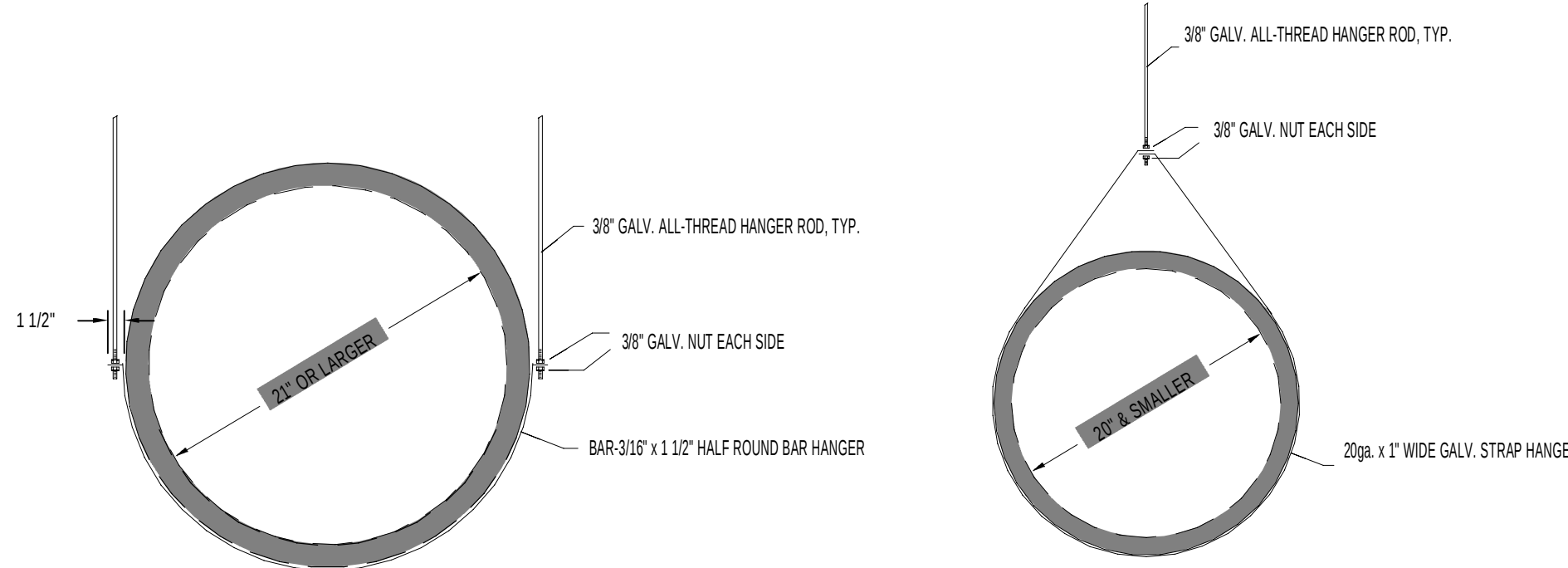
SQUARE THROAT ELBOW WITH VANES



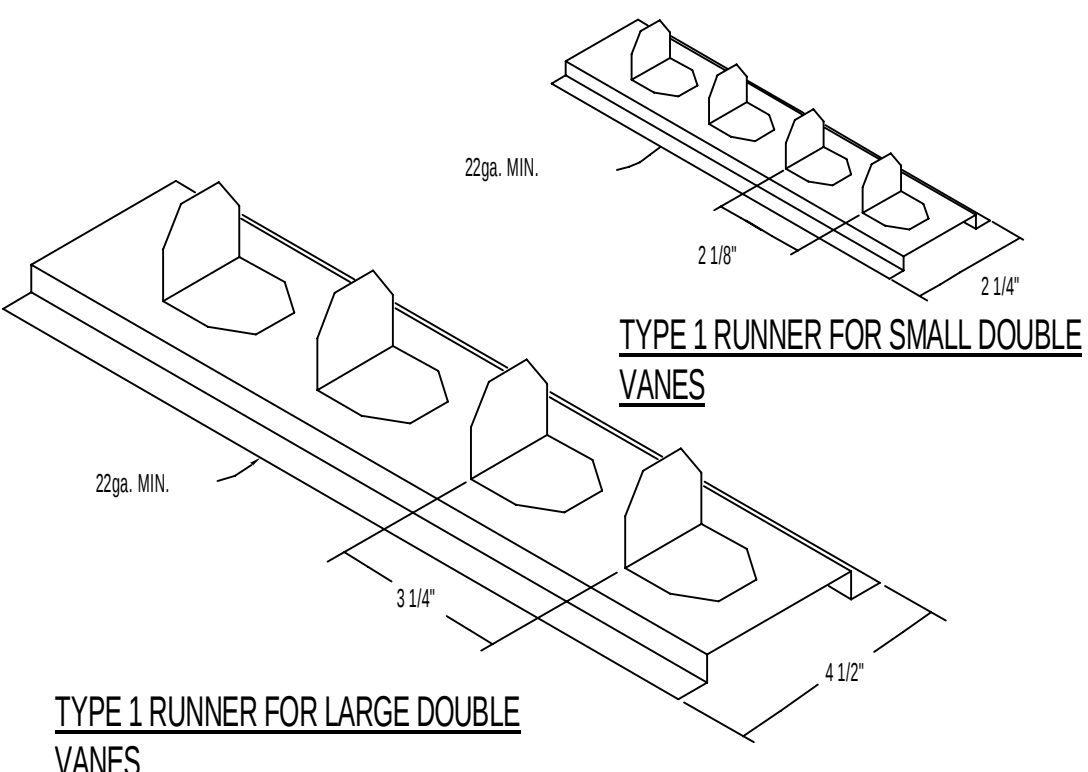
MULTISECTION TURNING VANES



DUCT HANGER DETAIL

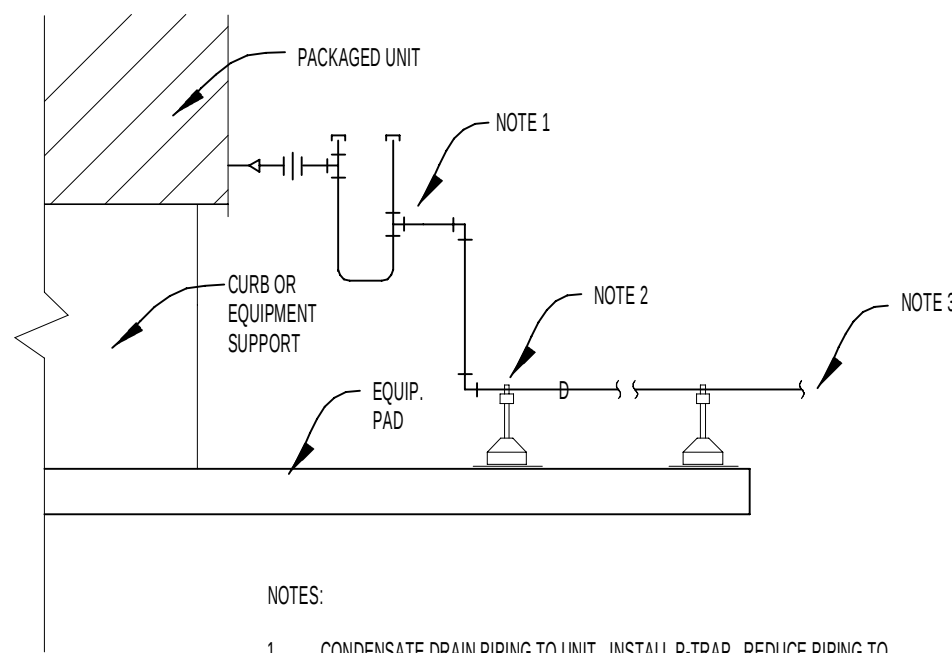


TURNING VANE DETAILS

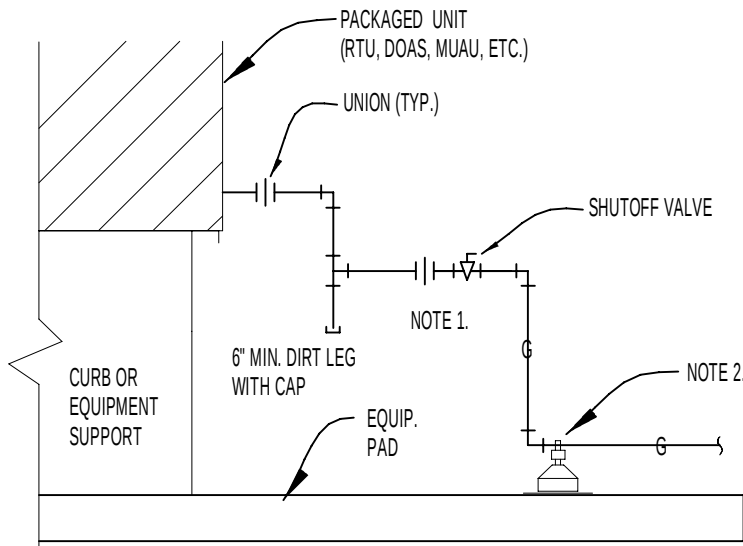


TYPE 1 RUNNER FOR LARGE DOUBLE VANES

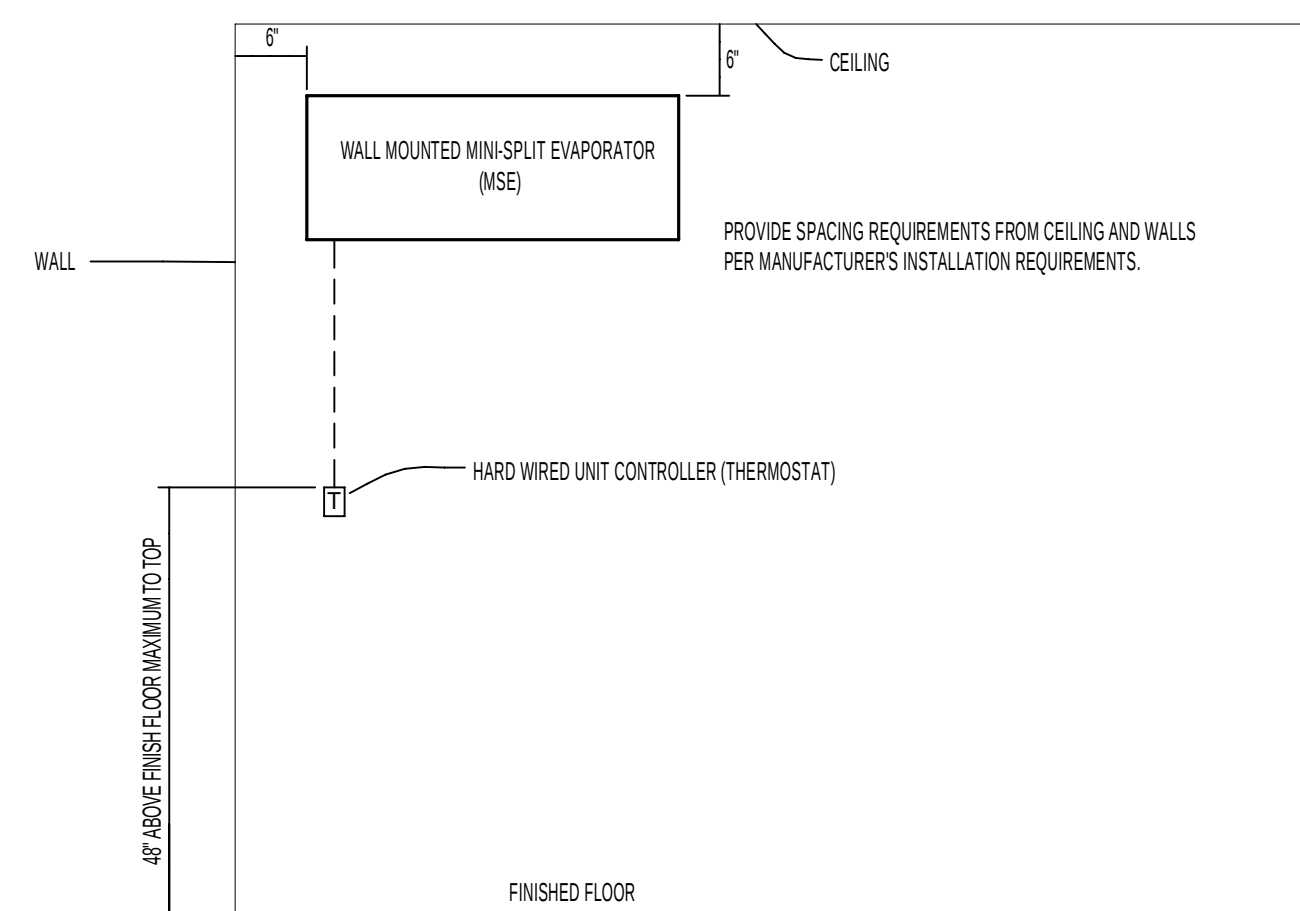
8/13/2026 10:00:23 AM



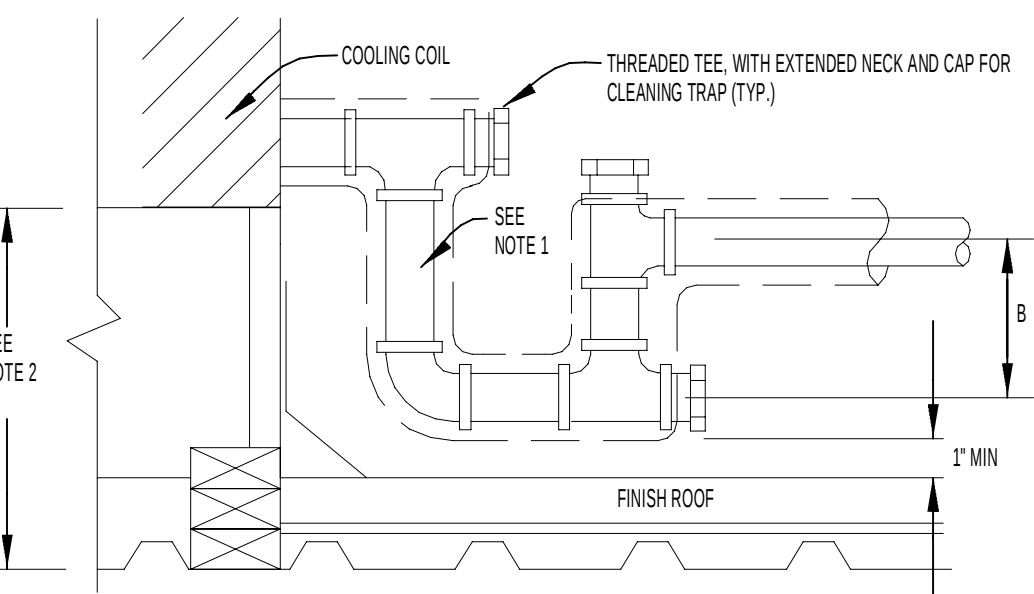
CONDENSATE DRAIN PIPING DETAIL



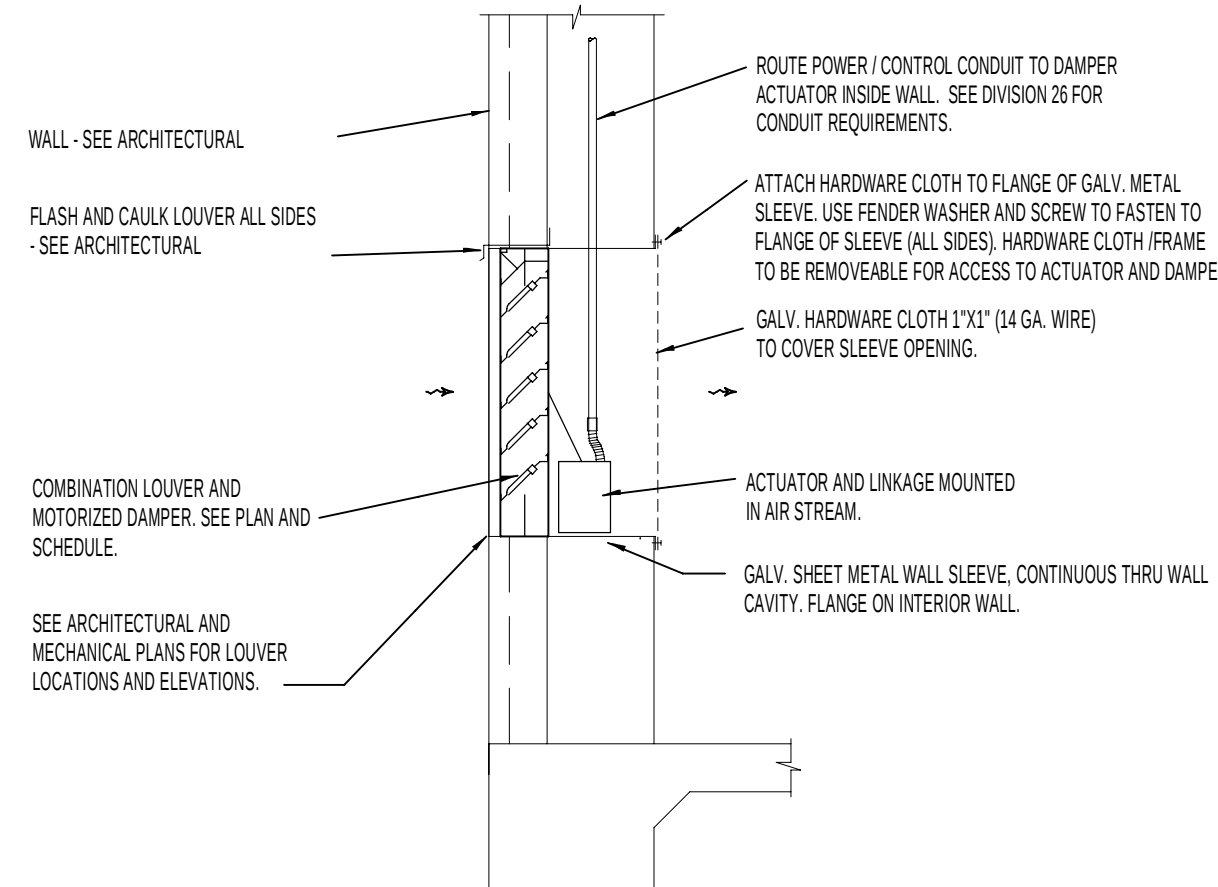
GAS PIPING DETAIL



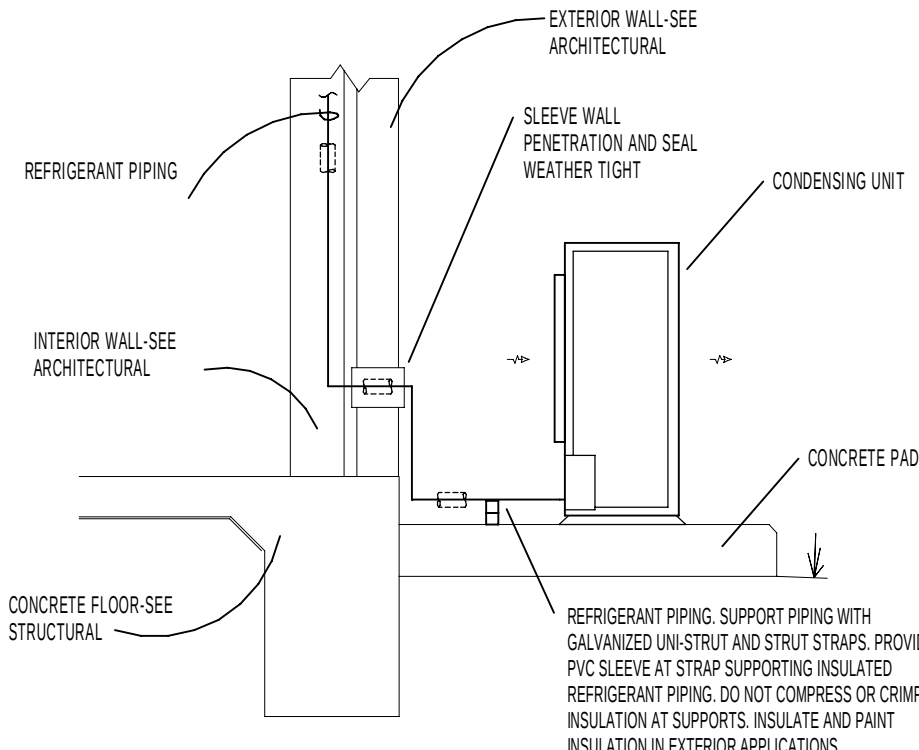
MINI-SPLIT EVAPORATOR UNIT DETAIL



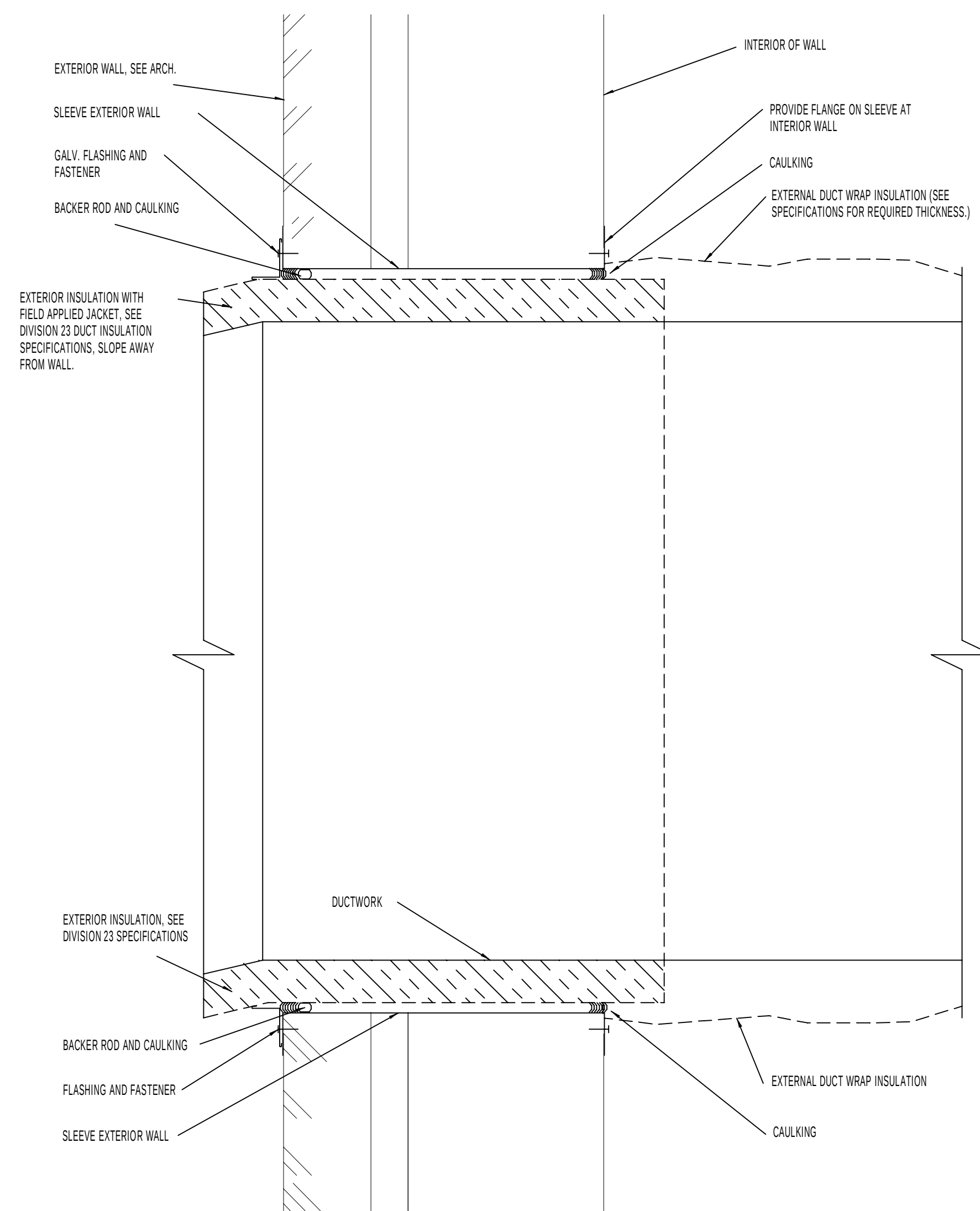
CONDENSATE DRAIN TRAP



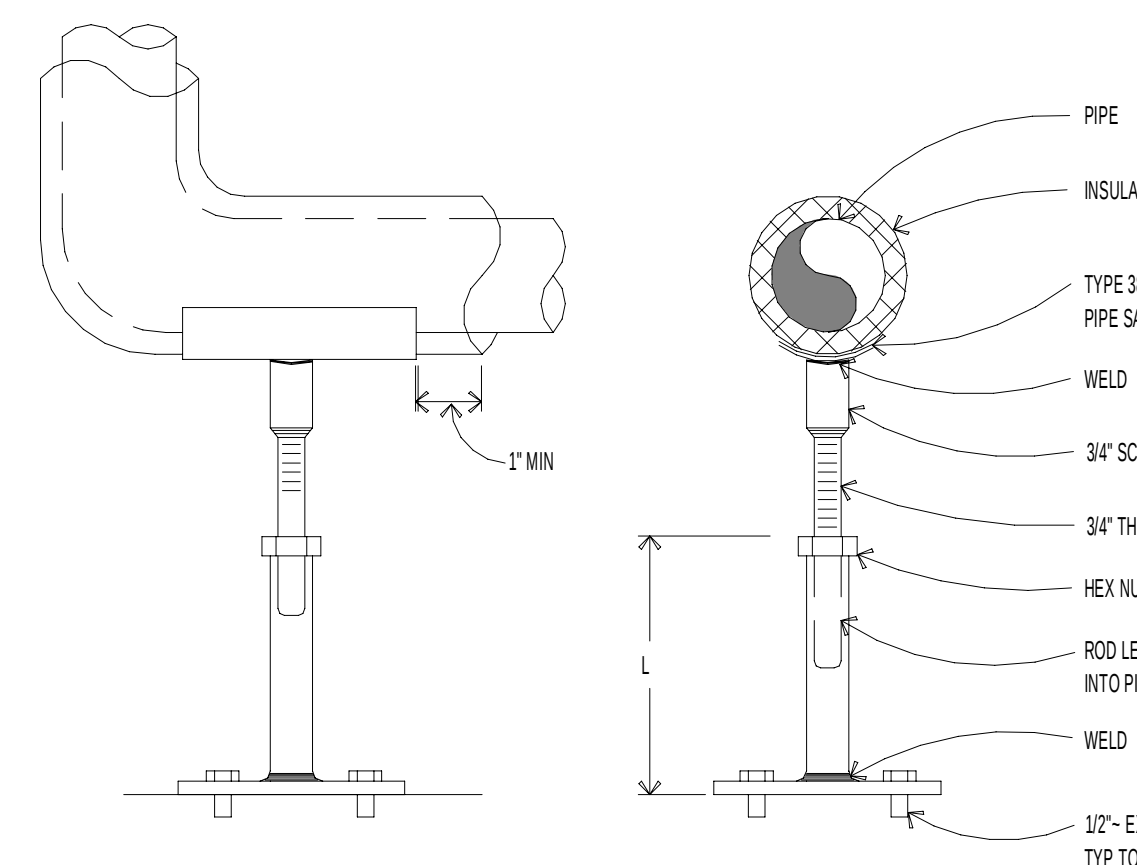
INTAKE LOUVER WITH ACTUATOR DETAIL



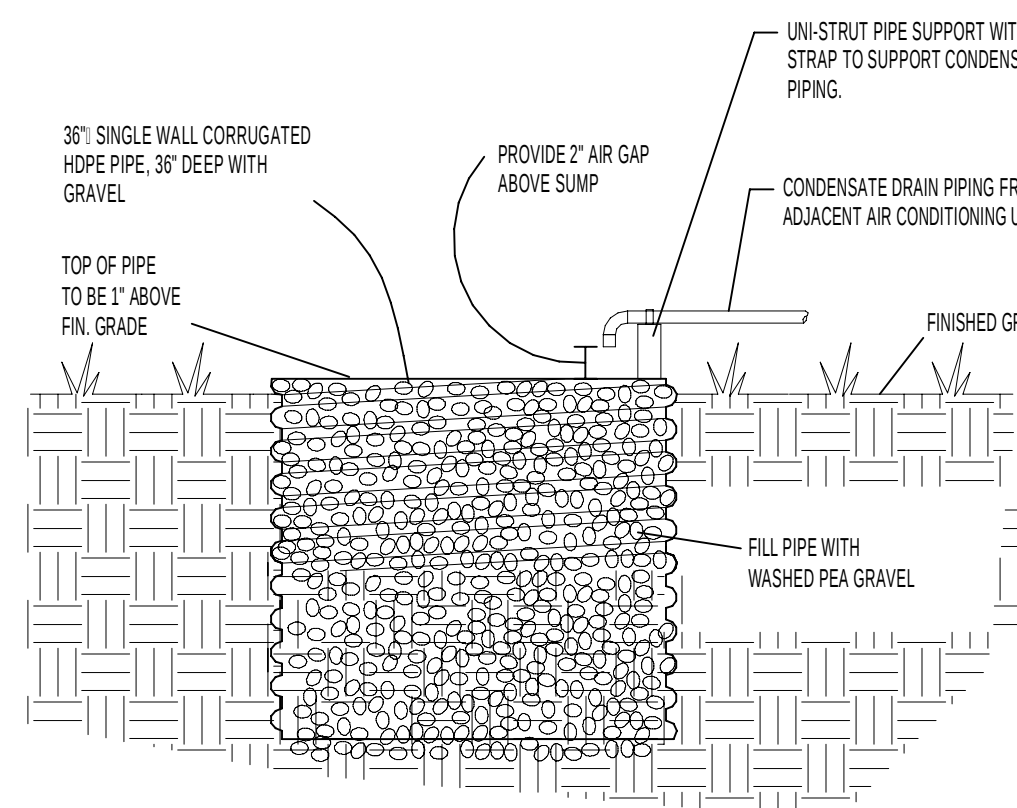
TYPICAL REFRIGERANT PIPING DETAIL



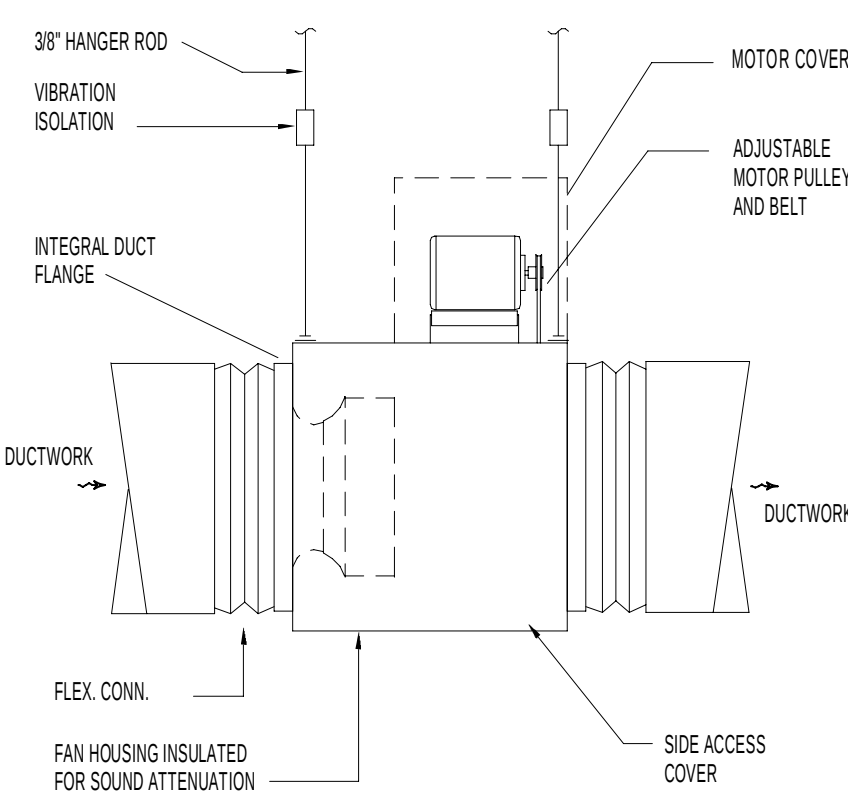
DUCTWORK EXTERIOR WALL PENETRATION DETAIL



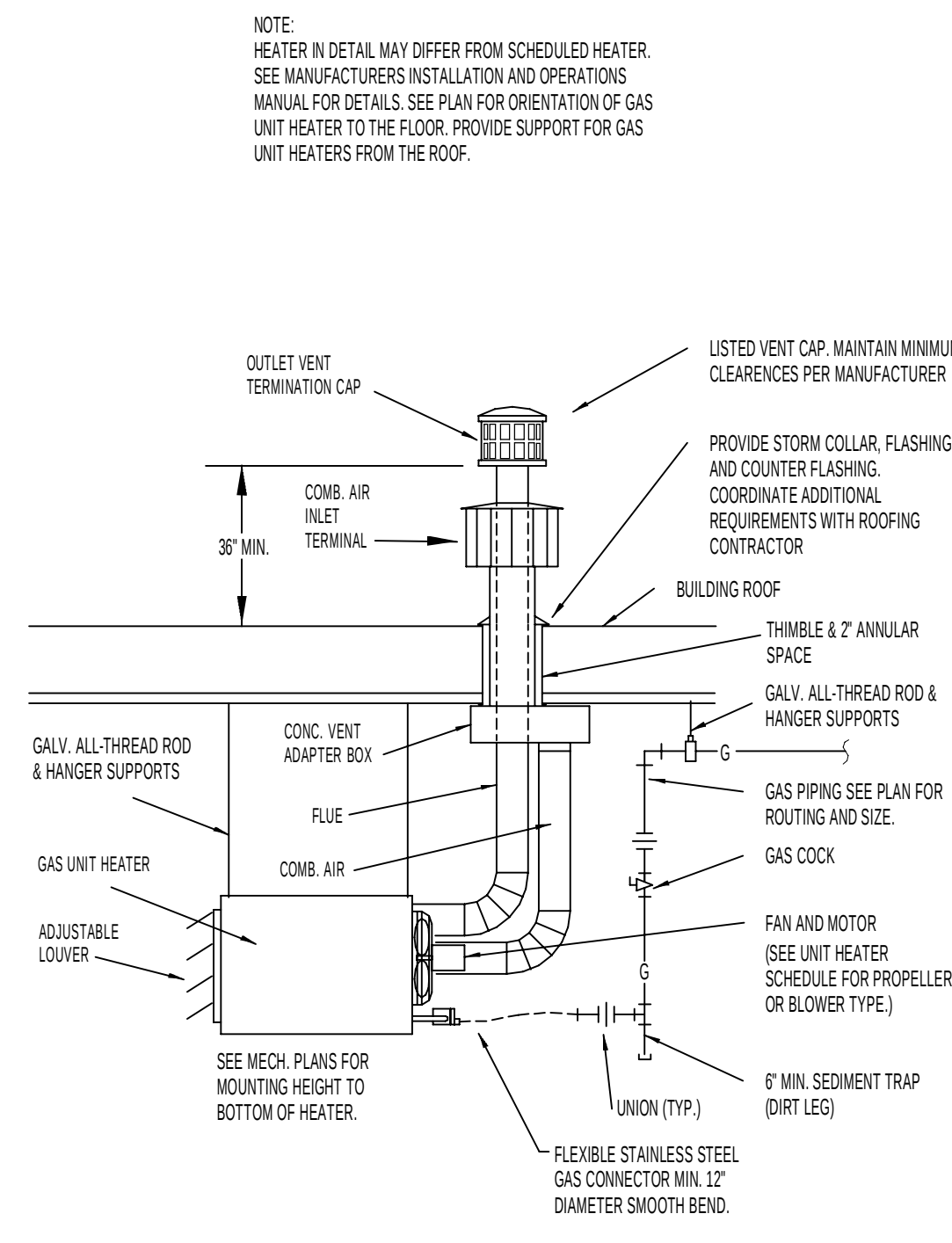
TYPE 38 PIPE SADDLE WITH ADJUSTABLE STANCHION



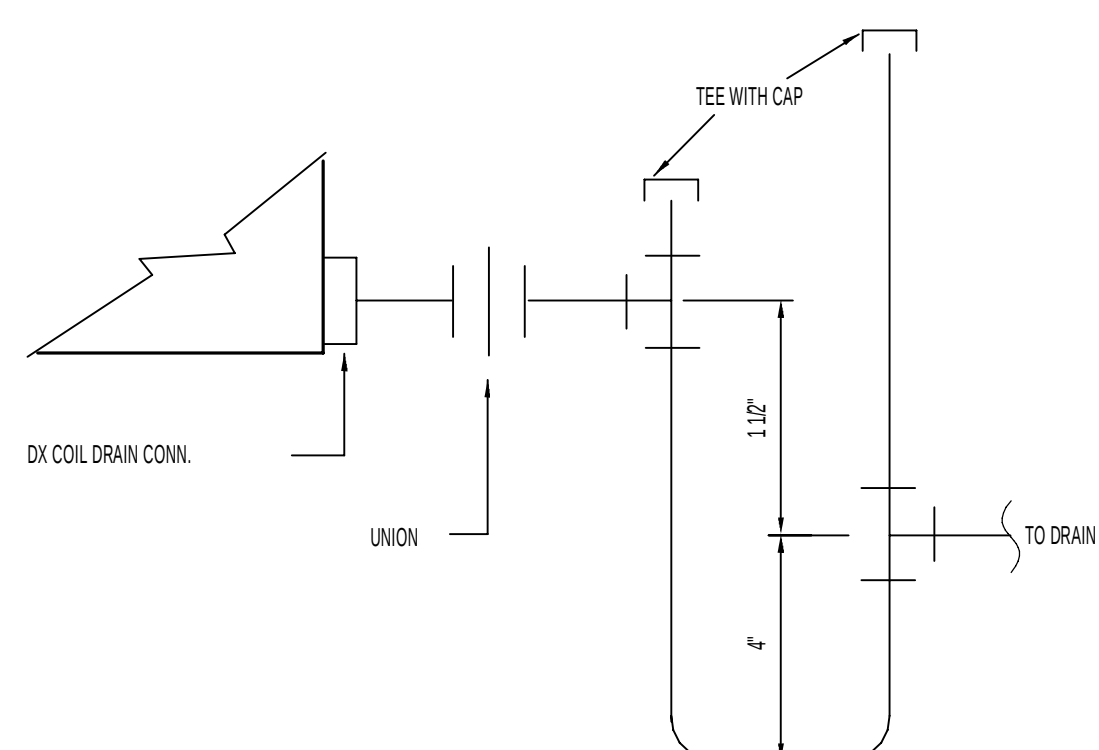
GRAVEL SUMP DETAIL



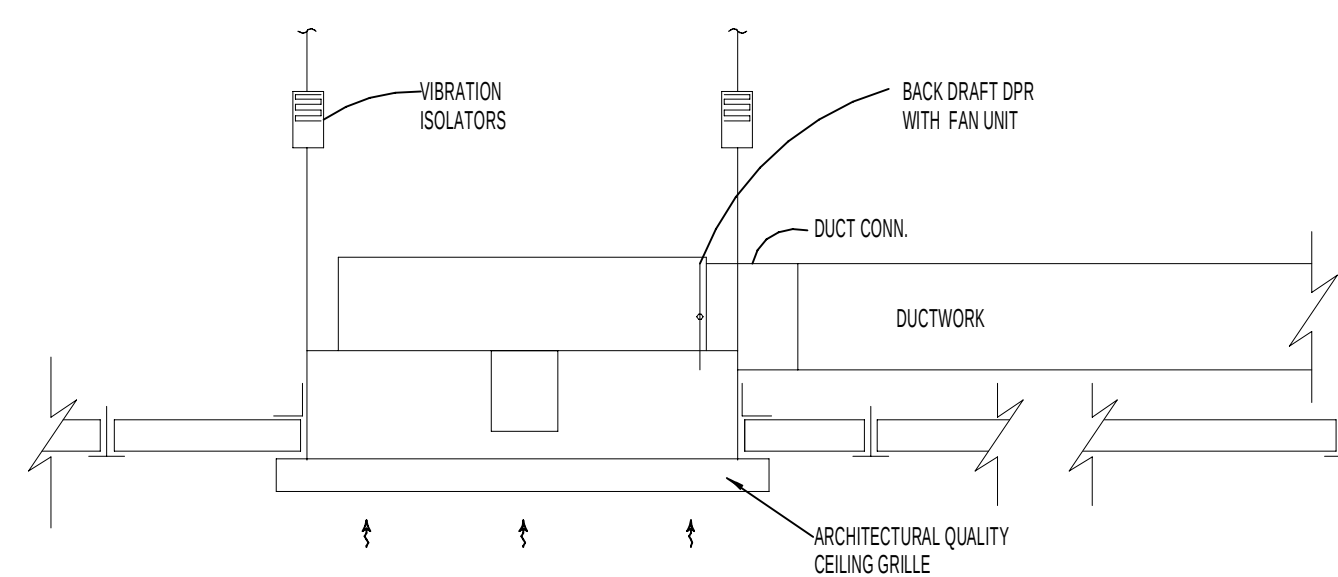
IN-LINE FAN



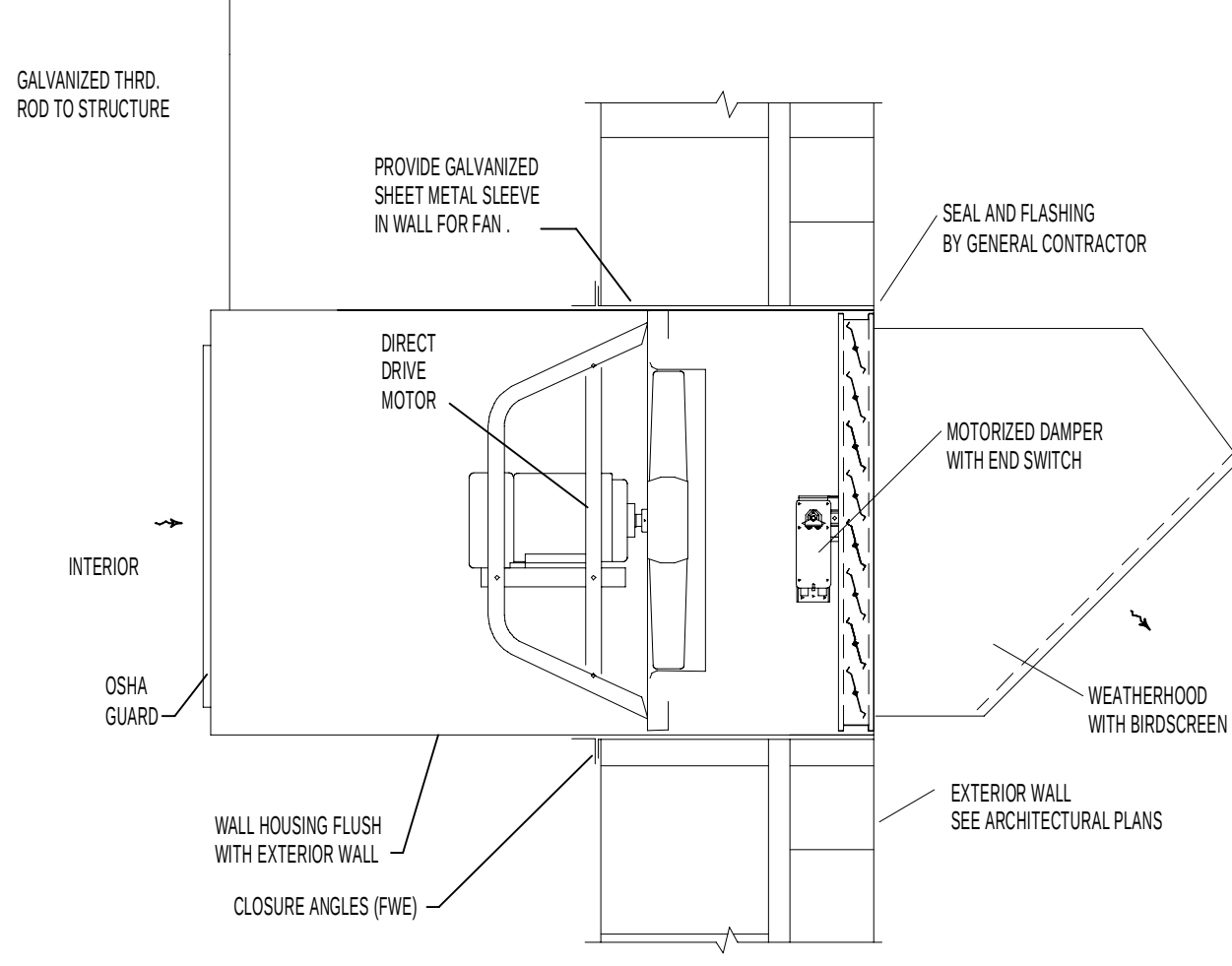
GAS UNIT HEATER DETAIL



EVAPORATOR COIL TRAP DETAIL

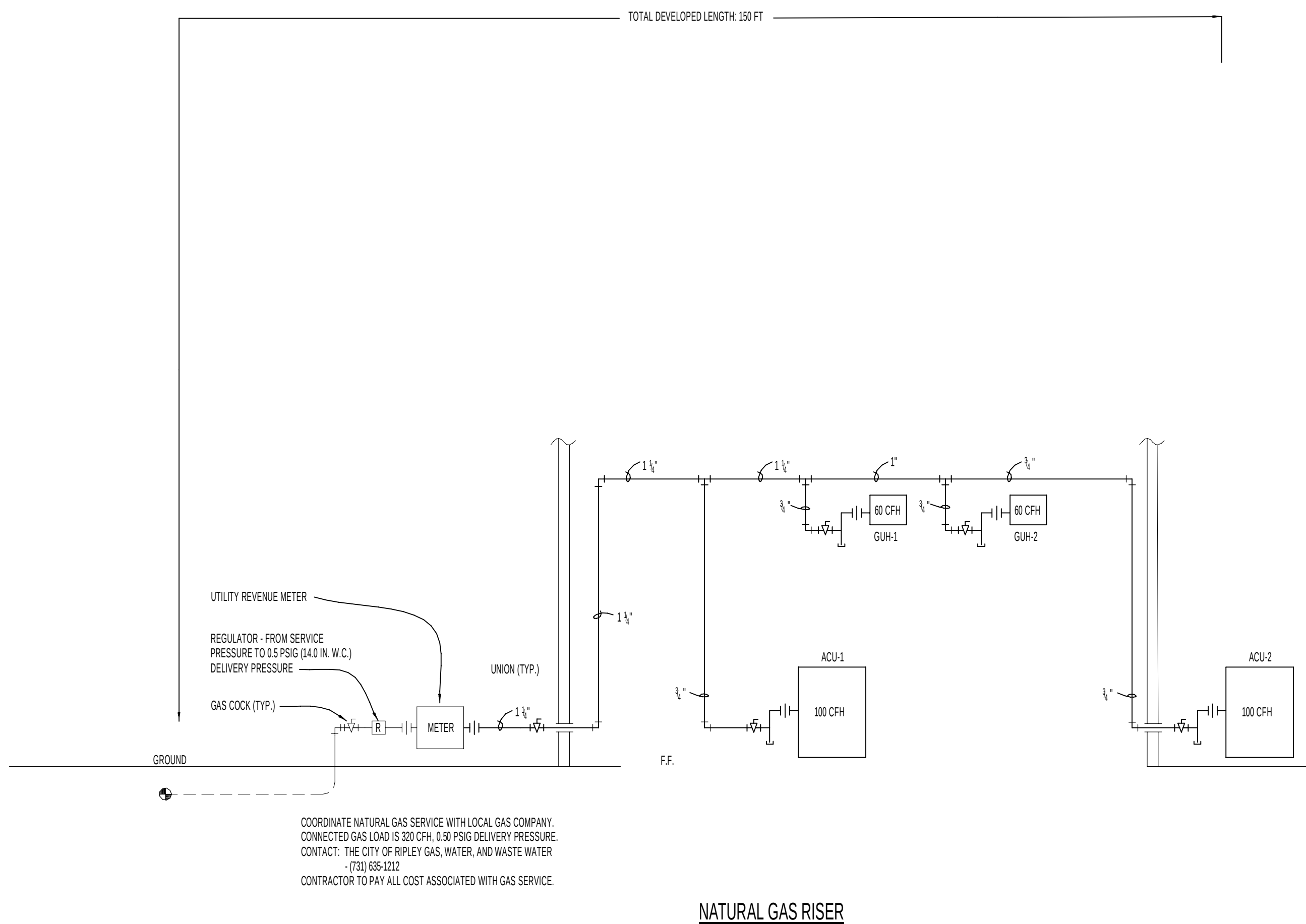


CEILING EXHAUST FAN

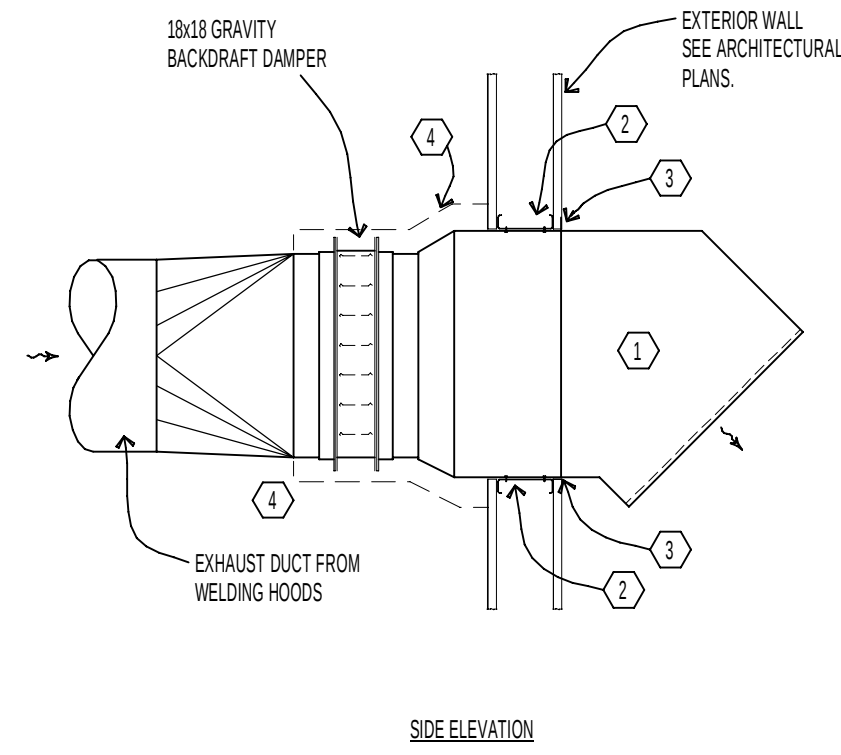


SIDEWALL EXHAUST FAN

8/13/2026 10:00:24 AM

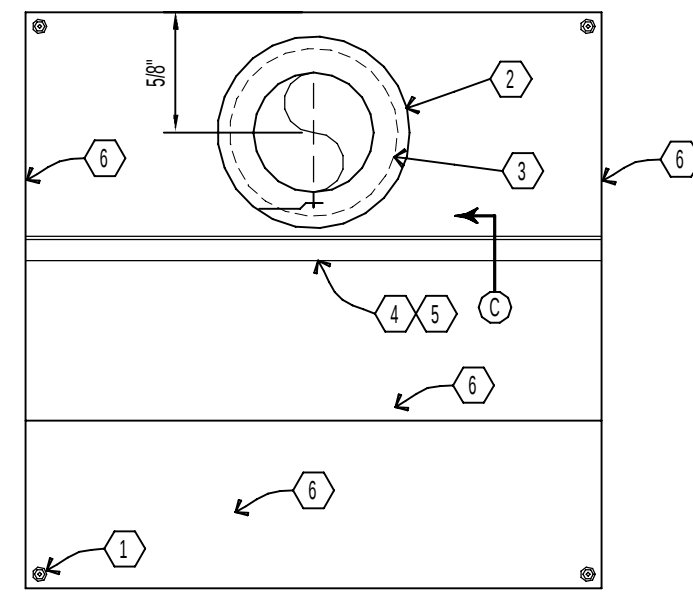


- NOTES:
- 1 ALUMINUM WEATHERHOOD, 45 DEGREE DISCHARGE WITH BROSSCREEN, EQUAL TO GREENHECK MODEL WTHD.
 - 2 OPENING FOR DISCHARGE HOOD SHALL BE CUT AND FRAMED BY GENERAL CONTRACTOR. GEN. CONTRACTOR SHALL FRAME ENTIRE OPENING WITH 8" C CHANNEL AND METAL BUILDING TRIM. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION WITH GC.
 - 3 MECHANICAL CONTRACTOR SHALL SEAL WEATHERTIGHT CONTINUOUS AROUND WEATHERHOOD AND WALL OPENING.
 - 4 PROVIDE 2" EXTERNAL DUCT WRAP INSULATION CONTINUOUS AROUND INTERIOR PORTION OF DUCT AND BACKDRAFT DAMPER, ALL FOUR SIDES. TERMINATE EDGE OF DUCT WRAP WITH FOIL TAPE FOR NEAT APPEARANCE.

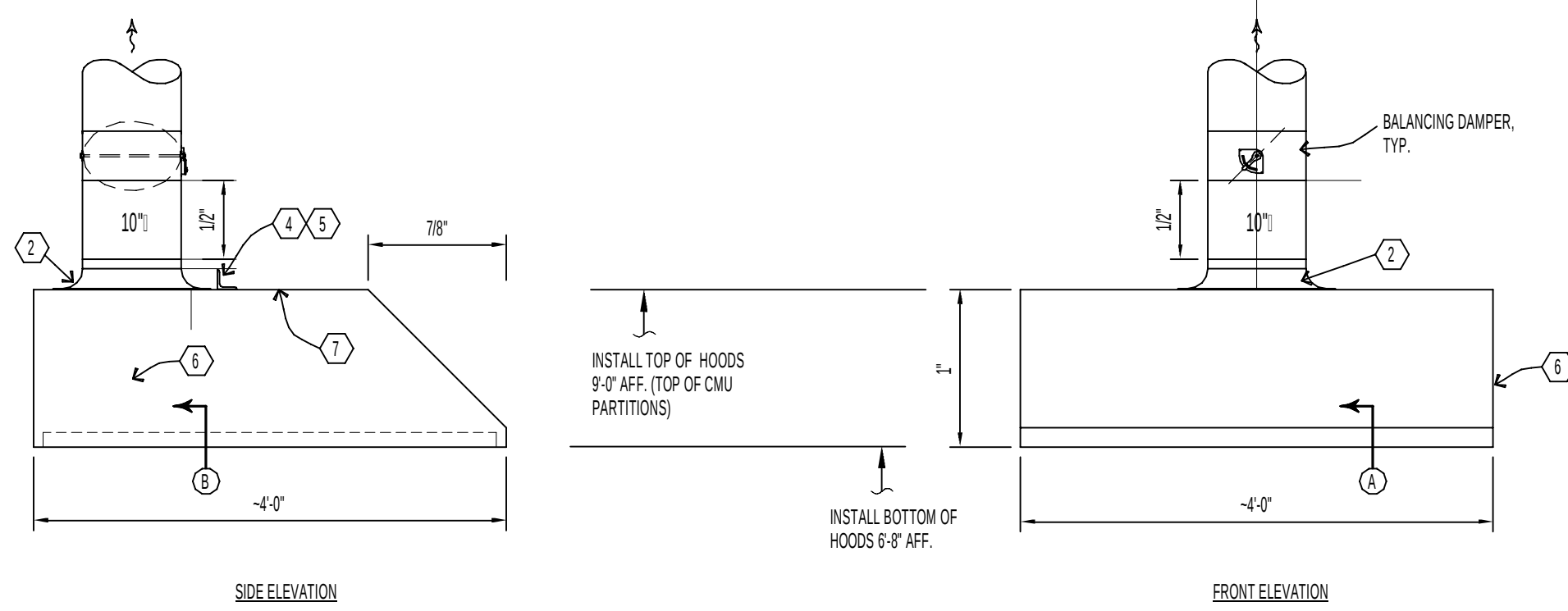


WELDING HOOD EXHAUST DUCT DISCHARGE DETAIL

- NOTES:
- 1 PROVIDE 1/2" DIA. ALL-THIRD ROD UP TO BUILDING STRUCTURE, TYPICAL 4 PLACES EACH HOOD.
 - 2 10" DIA. BELLMOUTH FITTING, ATTACH TO HOOD WITH NO. 10 TEX SCREW AT 4" ON CENTER. APPLY HIGH PRESSURE DUCT SEALER OVER EXTERIOR JOINT.
 - 3 CUT 14" DIA. OPENING IN HOOD BELOW BELLMOUTH.
 - 4 2"x2"x1/4" ANGLE WELDED TO HOOD WITH 1/2" LG. SKIP WELD AT 2" ON CENTER.
 - 5 APPLY HIGH PRESSURE DUCT SEALER ALONG EXTERIOR SEAM OF ANGLE.
 - 6 CONSTRUCT HOOD WITH 16ga. GALVANIZED METAL.
 - 7 CONTINUOUS WELD JOINT ALONG END PANELS.



PLAN VIEW



PLUMBING FIXTURE SCHEDULE									
SYMBOL	MANUFACTURER	MOD. NO.	MOUNTING	WST.	VNT.	CW.	HW.	REMARKS	
WC-1	KOHLER	K-96057	FLOOR	4"	2"	1"	-	WATER CLOSET, WHITE VITREOUS CHINA ADA COMPLIANT W/ SLOAN 11.1 SFSM-1.8 BATTERY POWERED FLUSH VALVE WITH POLISHED CHROME FINISH, 1.6 GPF OPEN FRONT SEAT #K-4670-C	
L-1	KOHLER	K-2032	WALL	1 1/4"	2"	1/2"	1/2"	LAVATORY, WHITE VITREOUS CHINA ADA COMPLIANT, RIM MOUNTED AT 34" A.F.F. W/ SLOAN SF-2350-BAT-BDT-CP-0.5 GPM-MLM-IR-FCT BATTERY POWERED FAUCET McGUIRE #LF8V2165CC 1/4 TURN STOP VALVES #155-WC OFFSET STRAINER, #8872 1 1/4" P-TRAP INSULATE WATER SUPPLY LINES AND DRAIN LINE PER ADA WITH "HAND-LAP" PLASTIC COVERS J.R. SMITH FIG. 700 CARRIER PROVIDE WATTS LFMMV MIXING VALVE, ASSE 1070 LISTED, UNDER LAVATORY.	
SS-1	STERN-WILLIAMS	SBC-1700	FLOOR	3"	2"	3/4"	3/4"	SQUARE, FRONT DROP, CORNER SERVICE SINK, 24"x24"x12" TERRAZO WITH DROP LEDGE STAINLESS STEEL RIM W/ K-8908 SERVICE SINK FAUCET WITH PAIL HOOD, WALL BRACE, HOSE, VACUUM BREAKER, STAINLESS STEEL SPLASH PANELS, 20 GA. TYPE 304 SS.	
SS-2	ELKAY	14-2C18X24-2-0X	FLOOR	1 1/2"	2"	1/2"	1/2"	FLOOR MOUNTED, 2 COMPARTMENT SINK W/ T&S BRASS FAUCET B-0231-A22-CVH 8" WALL MOUNTED FAUCET W/ 12" SWING NOZZLE AND CHECK VALVES (2) T&S BRASS #B-3950 DRAIN FITTING W/ ROTARY LEAVER McGUIRE #115C16620 1 1/2" CONTINUOUS WASTE, #8912 1 1/2" P-TRAP McGUIRE #BV2165CC 1/4 TURN STOP VALVES	
ESEW-1	ACORN	S1320	WALL	2"	-	1"	-	BARRIER FREE COMBINATION STATION,PEDESTAL EYE/FACE WASH, EMERGENCY SHOWER W/ PLASTIC SHOWER HEAD AND PLASTIC BOWL	
FPHB-1	WOODFORD	B65	WALL	-	-	3/4"	-	FROST PROOF HOSE BIBB, NICKEL, BRONZE BOX AND DOOR, VACUUM BREAKER, WITH LOOSE KEY	
FD-1	J.R. SMITH	2005L-805NB-P050	FLOOR	-	-	-	-	FLOOR DRAIN W/ 5" ROUND NICKEL BRONZE STRAINER WITH TRAP GUARD / SEALER EQUAL TO PROSET TRAP GUARD DRAIN INSERT OR SURF-SEAL FLOOR DRAIN TRAP SEALER, SPEEDI-SET OUTLET PROVIDE P-TRAP FOR FLOOR DRAIN SIZE AS SHOWN ON PLAN.	
FGCD-1	ZURN	Z-1400-NL	GRADE	-	-	-	-	FLUSH GRADE CLEANOUT W/ 18"x18"x4" CONCRETE PAD HEAVY DUTY CAST IRON TOP SPEEDI-SET OUTLET SIZE AS SHOWN ON PLAN	
WCO-1	J.R. SMITH	4472	WALL	-	-	-	-	WALL CLEANOUT PLUG & COVER FOR USE IN SANITARY TAP TEE, SIZE AS SHOWN ON PLAN	

WATER HEATER SCHEDULE												
MARK	MFG	MOD NO	GALLONS CAPACITY	ELEMENT WATTAGE	BTUH INPUT	GPH @ 100°F TD	THERMOSTAT SETPOINT(F)	FUEL TYPE	FLUE SIZE	VOLT / PH / AMPS	REMARKS	
WH-1	RHEEM	ELD40	40	4,500	-	18	120	-	-	240 / 1 / 19	1,2,3,4,5,6,7	

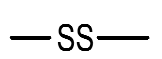
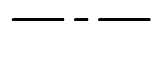
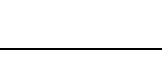
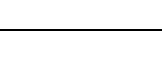
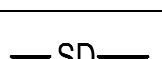
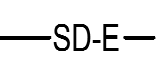
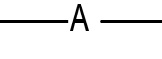
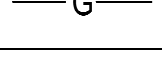
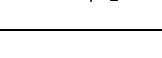
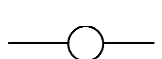
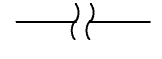
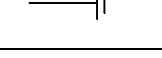
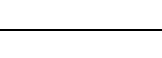
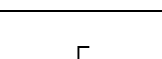
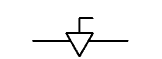
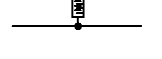
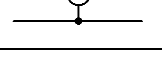
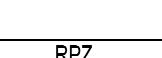
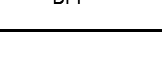
1. ELECTRIC, COMMERCIAL, STORAGE TYPE WATER HEATER
2. LISTED BY UNDERWRITERS LABORATORIES, U.L. LABEL
3. SURFACE MOUNTED, AUTOMATIC THERMOSTAT
4. FACTORY INSTALLED TEMPERATURE AND PRESSURE RELIEF VALVE
5. MAXIMUM HYDROSTATIC WORKING PRESSURE 150 PSI
6. ANODE ROD(S) AND DRAIN VALVE
7. TANK INSULATED WITH RIGID POLYURETHANE FOAM INSULATION

AIR COMPRESSOR SCHEDULE									
MARK	MFG	MODEL	ACFM	PSIG	HP	VOLTS/PH	FLA	REMARKS	
AC-1	INGERSOLL-RAND	2475N6-P	17.2	100	5	208V / 3	17.5	1,2,3,4,5,6,7,8,9,10,11	

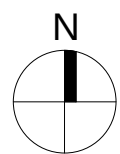
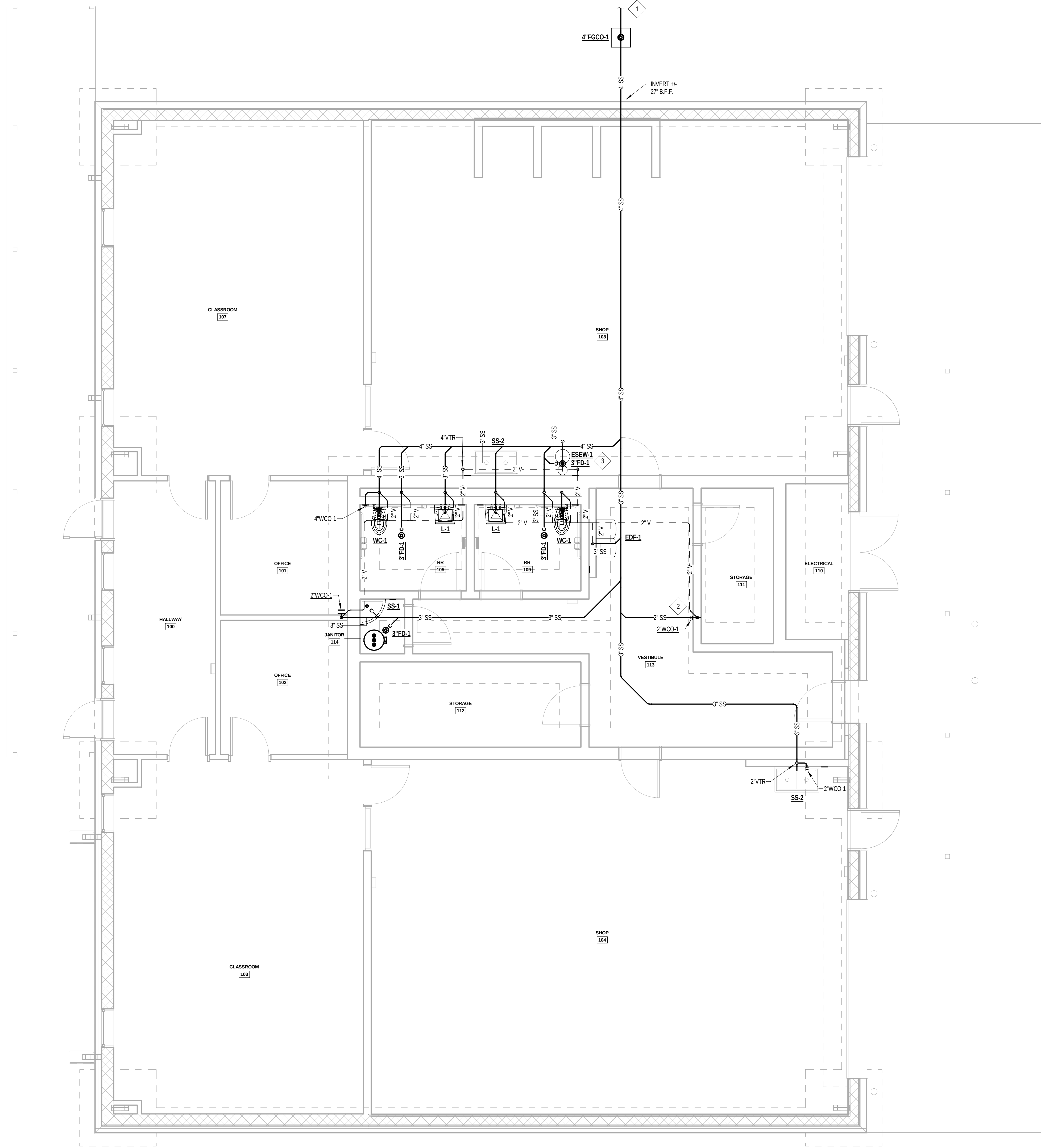
1. CAST IRON, TWO STAGE, PREMIUM RECIPROCATING COMPRESSOR
2. COMPRESSOR AND MOTOR TO BE FRAME MOUNTED
3. BELT DRIVE WITH GUARD
4. 80 GALLON VERTICAL TANK, DRAIN CONNECTION, SYSTEM CONNECTION
5. SAFETY RELIEF AND DISCHARGE VALVES
6. 100 PERCENT CONTINUOUS DUTY
7. PRESSURE CONTROLLED START / STOP SWITCH
8. OPEN DRIP-PROOF MOTOR, CLASS F INSULATION, 1750 RPM
9. MODEL D25IN NON-CYCLING REFRIGERATED AIR DRYER (115V/1PH/2.23A)
10. MODEL FA40I GRADE G & H FILTERS
11. EDV ELECTRONIC DRAIN VALVE (208V/1PH) POWERED FROM COMPRESSOR

CIRCULATING PUMP SCHEDULE									
MARK	MFG.	SERIES	SIZE	GPM	FT/HD	HP	VOLTS / FLA / PH	MOUNTING	REMARKS
HWRP-1	GRUNDFOS	UPS	15-55SUC/TLC	4	14	1/25	115V / 1.7A / 1PH	IN-LINE	1,2,3,4,5

1. DOMESTIC WATER CIRCULATING PUMP
2. STAINLESS STEEL VOLUTE W/ UNION PIPE CONNECTIONS
3. STAINLESS STEEL IMPELLER, INLET CONE, ROTOR CAN AND ROTOR CLADDING
4. INTEGRAL MOTOR SHALL BE COOLED AND LUBRICATED BY PUMPED FLUID.
5. CLIP-ON AQUASTAT AND TIMER FOR PUMP CONTROL

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	SANITARY SEWER
	POTABLE COLD WATER
	POTABLE HOT WATER
	POTABLE HOT WATER RETURN
	SANITARY VENT
	STORM DRAIN
	STORM DRAIN - EMERGENCY
	COMPRESSED AIR
	NATURAL GAS
	PIPE TURN DOWN
	PIPE TURN UP
	TEE TURN DOWN
	TEE TURN UP
	BREAK IN PIPING
	WALL CLEANOUT
	BALL VALVE
	CHECK VALVE
	CIRCUIT SETTER BALANCE VALVE
	GAS COCK
	THERMOMETER AND WELL
	PRESSURE GAUGE
	CONCENTRIC REDUCER
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	INDICATES PIPING TO RECEIVE INSULATION. SEE SPECIFICATIONS FOR TYPE AND THICKNESS

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1

PLUMBING DRAINAGE PLAN

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

GENERAL NOTES

- COORDINATE REQUIREMENTS FOR ALL WALL AND SLAB PENETRATIONS WITH STRUCTURAL ENGINEER. SLEEVE ALL PENETRATIONS THROUGH STRUCTURAL BEAMS AND FOOTINGS.
- COORDINATE ROUTING OF PIPING AND EQUIPMENT WITH ALL TRADES PRIOR TO BEGINNING CONSTRUCTION.
- REVIEW ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS OF RATED ASSEMBLIES. PROVIDE FIRE CAULK AND THROUGH PENETRATIONS, AS REQUIRED, FOR ALL RATED ASSEMBLIES.
- SLEEVE ALL HORIZONTAL PENETRATIONS THROUGH STORM SHELTER WALL. MAXIMUM SLEEVE SIZE IS 2" DIAMETER.

KEYNOTES

- SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION OF SANITARY SEWER.
- 2" UP FOR A/C CONDENSATE DRAIN. COORDINATE LOCATION AND HEIGHT OF DRAIN CONNECTION WITH MECHANICAL CONTRACTOR.
- ROUTE DRAIN FROM EYEWASH TO FLOOR DRAIN UTILIZING THREADED, GALVANIZED PIPING. PIPING SHALL BE ATTACHED TO FLOOR.

2024520 Tippah Career & Technology Center Addition South Tippah School District

Ripley, Mississippi

DESCRIPTION
CONSTRUCTION DOCUMENTS

DATE
08/13/2026

MARK
CD



2024520

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PLUMBING
DRAINAGE PLAN

P1.1

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8/13/2026 10:37:46 AM

2024520

Tippah Career & Technology Center Addition

South Tippah School District

Ripley, Mississippi

DESCRIPTION
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DATE
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MARK
CD



2024520

DRAWN BY: EIR

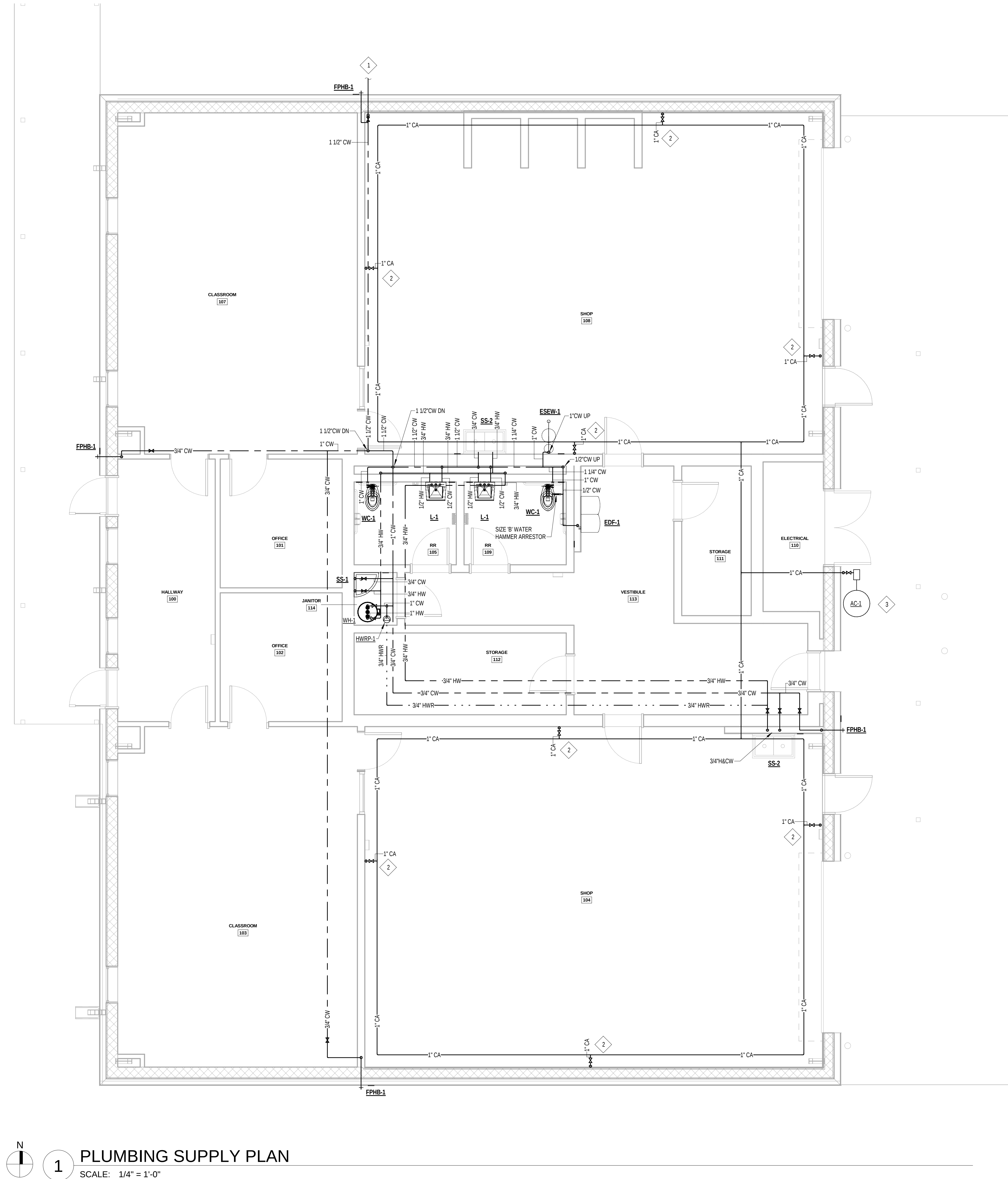
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PLUMBING SUPPLY
PLAN

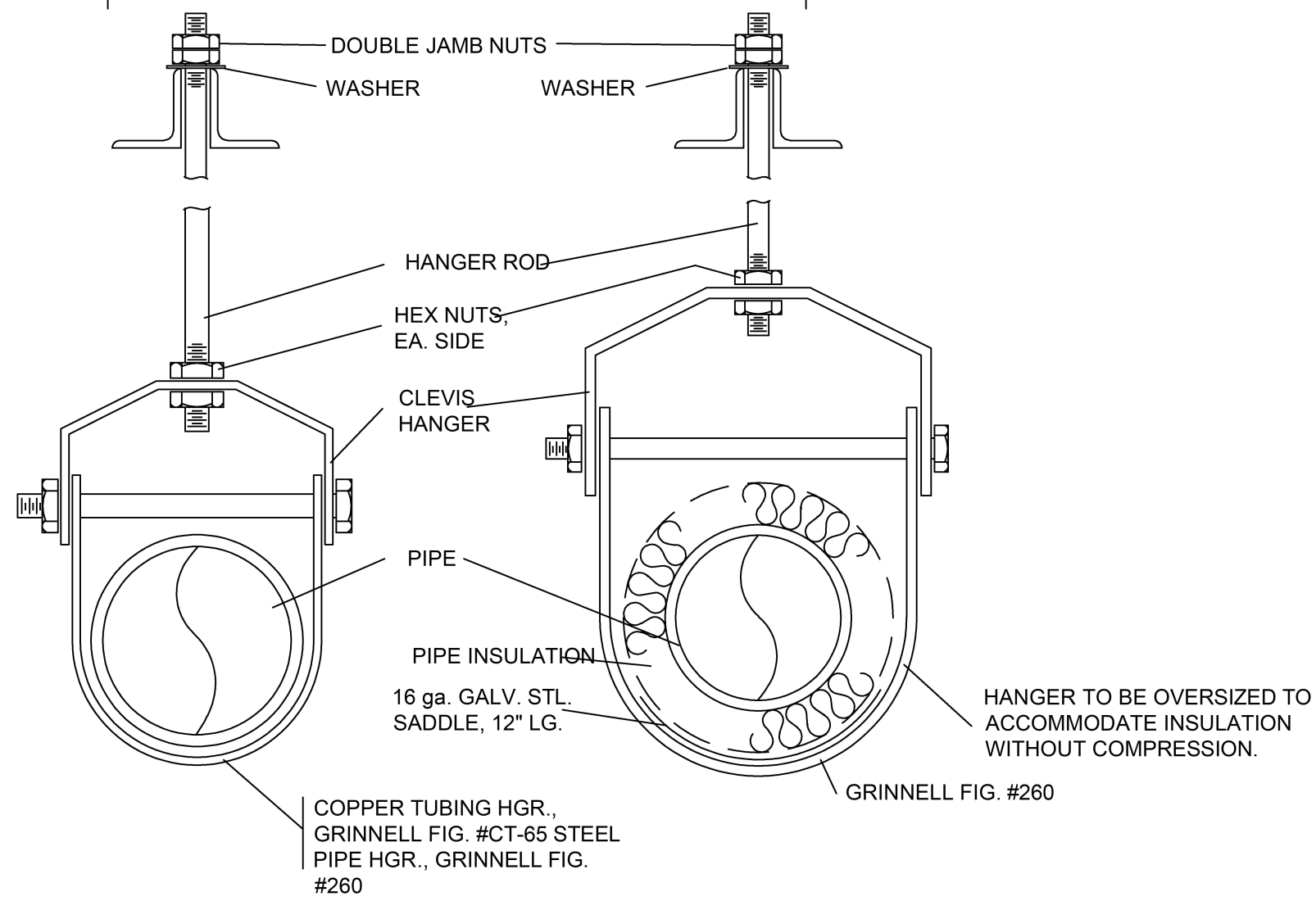
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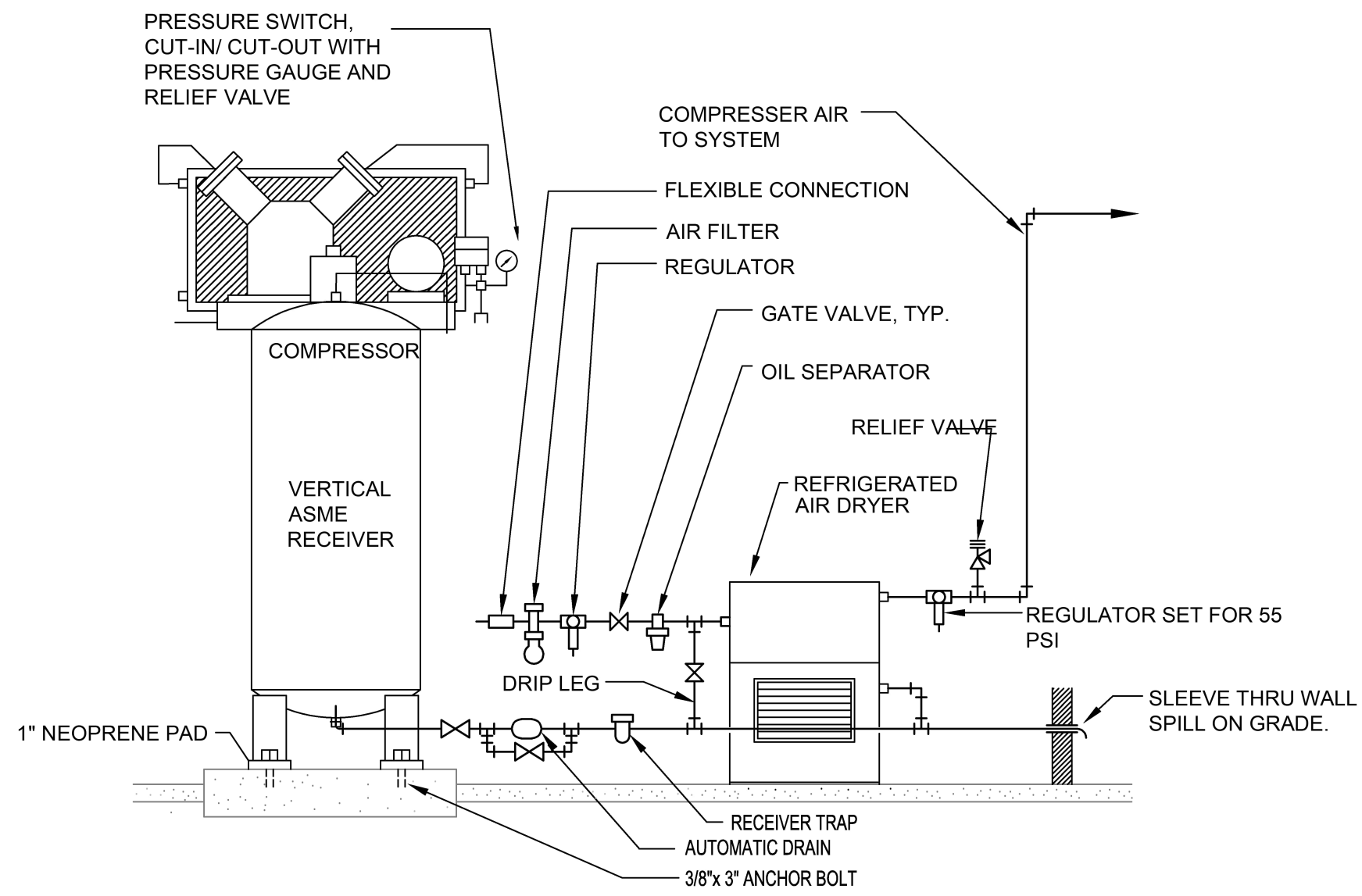


PIPE SIZE	ROD SIZE	MAX. HGR SPC. COPPER PIPE	MAX. HGR SPC. STEEL PIPE
1/2"	3/8"	5'	5'
3/4"	3/8"	5'	6'
1"	3/8"	5'	7'
1 1/4"	3/8"	7'	8'
1 1/2"	3/8"	8'	9'
2"	3/8"	8'	10'
2 1/2"	1/2"	9'	11'
3"	1/2"	10'	12'
4"	5/8"	12'	14'
5"	5/8"	-	16'
6"	7/8"	-	17'

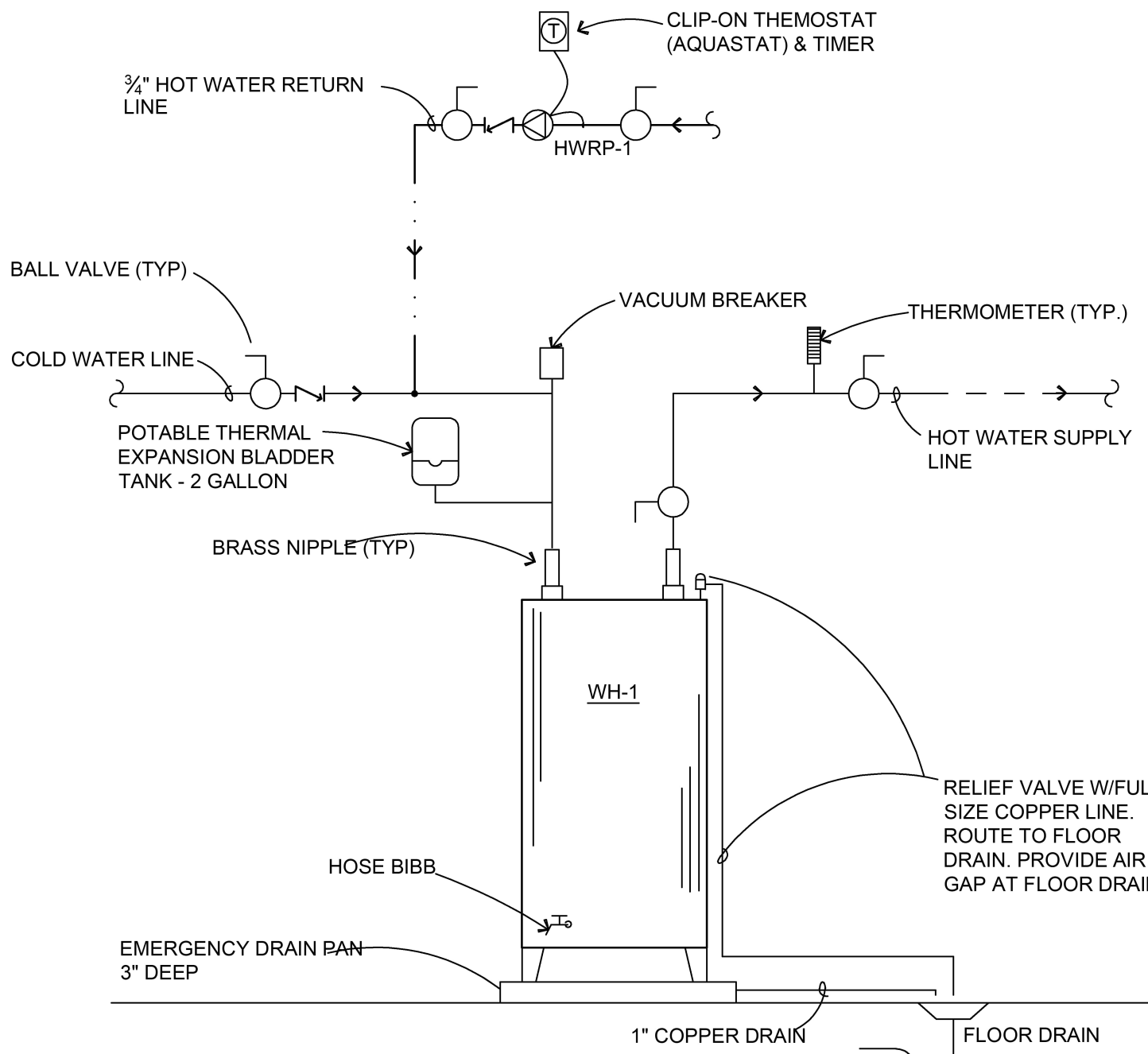
ALL PIPE SUPPORT MATERIAL WHICH INCLUDES PIPE HANGERS, STRUCTURAL SHAPES, THREADED ROD, NUTS, BOLTS, ETC SHALL BE GALVANIZED OR PLATED. IF PIPE SUPPORT IS IN CONTACT WITH COPPER TUBING, THE PIPE SUPPORT SHALL BE COPPER OR COPPER PLATED. DISSIMILAR METALS SHALL NOT BE ALLOWED TO CONTACT ONE ANOTHER.



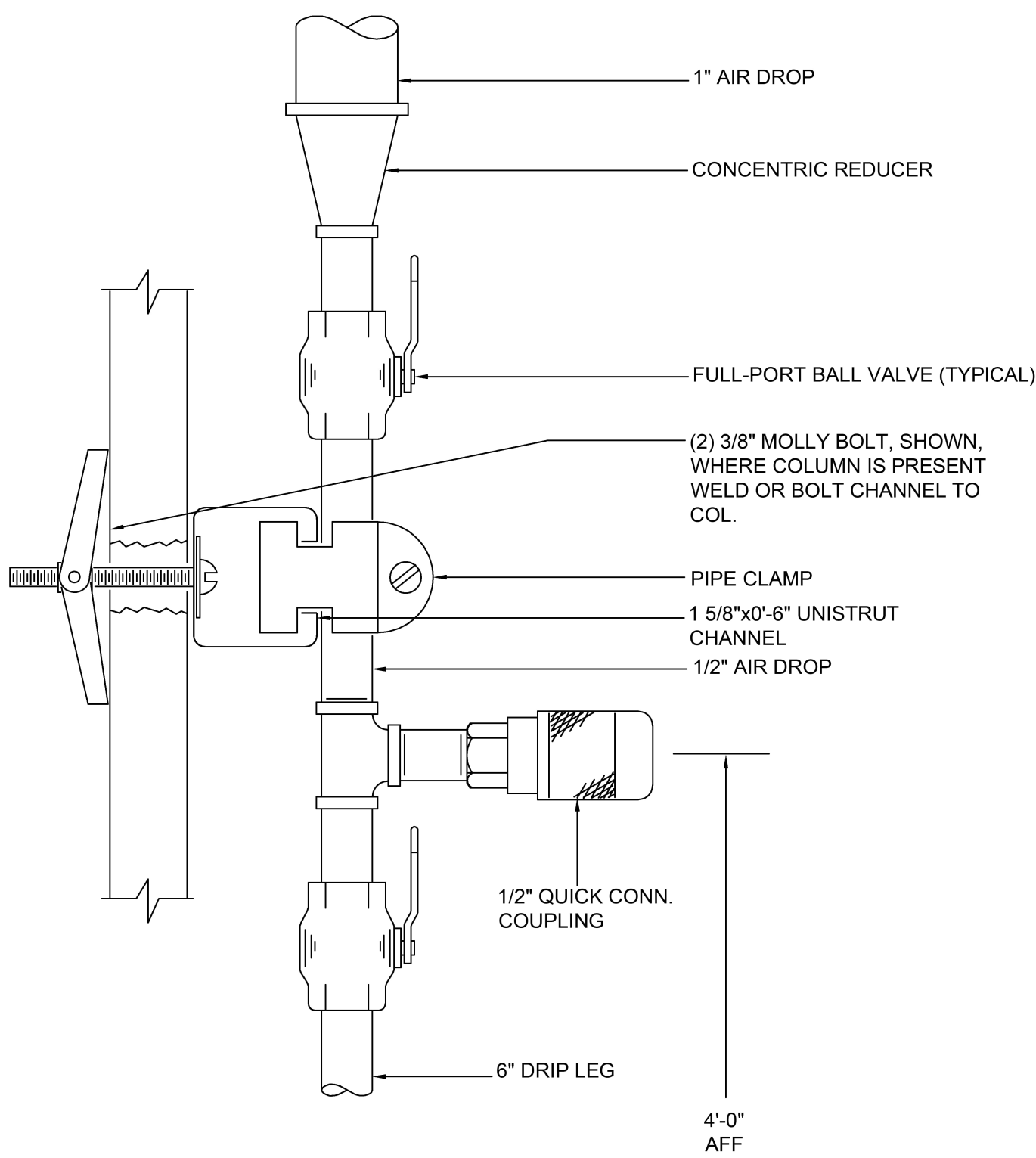
5 **PIPE SUPPORT DETAIL**
P401 SCALE: NONE



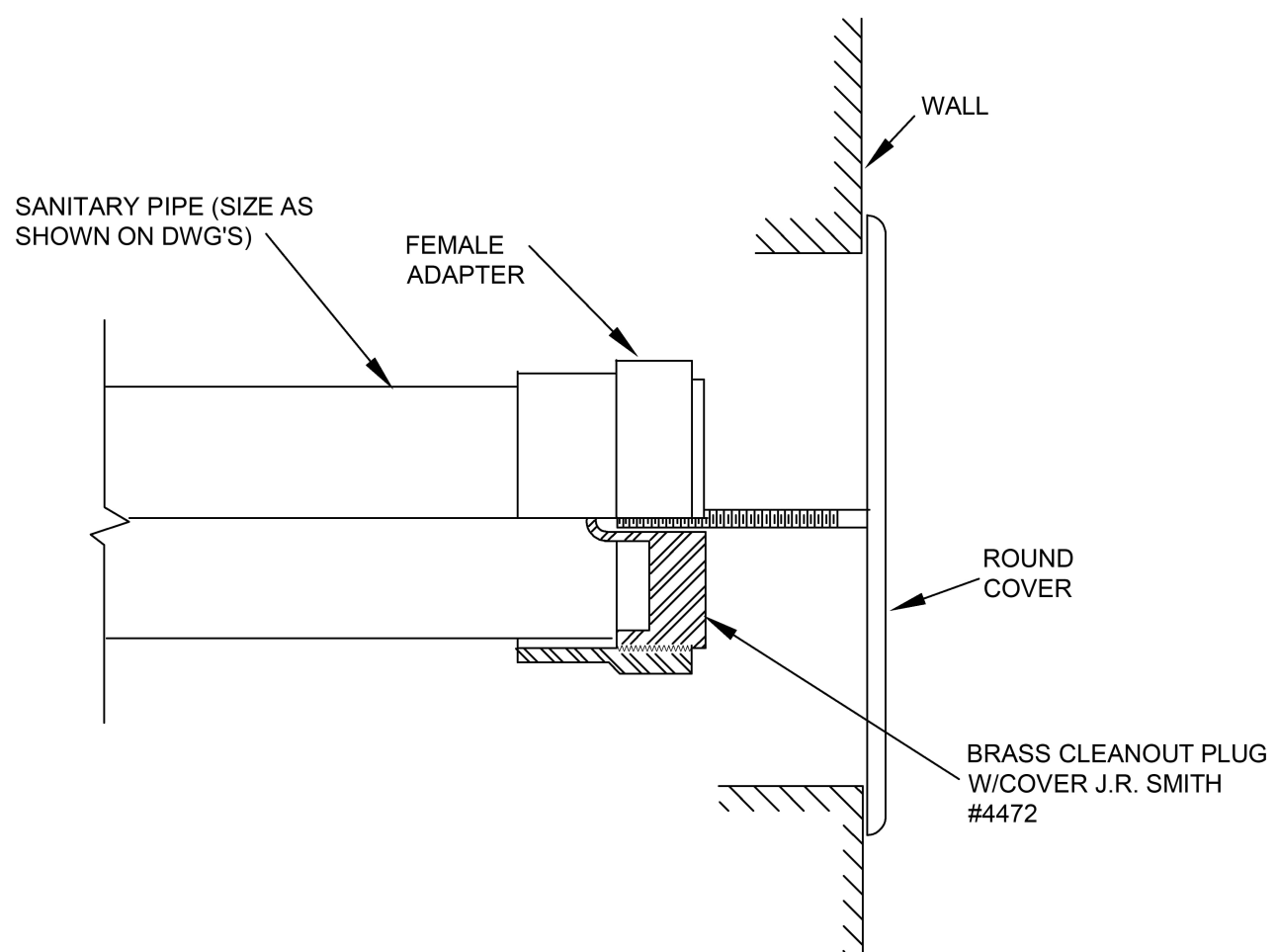
8 **AIR COMPRESSOR DETAIL**
P401 SCALE: NONE



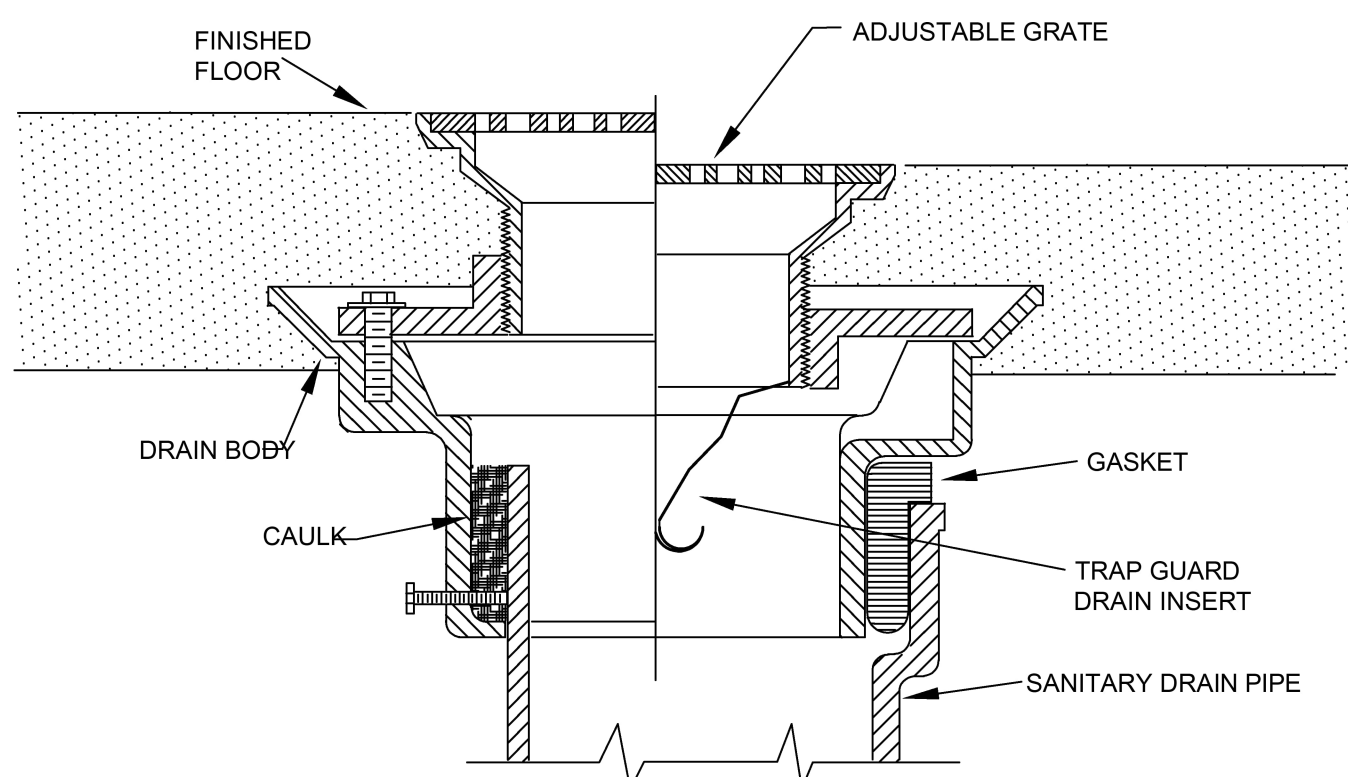
6 **ELECTRIC WATER HEATER**
P401 SCALE: NONE



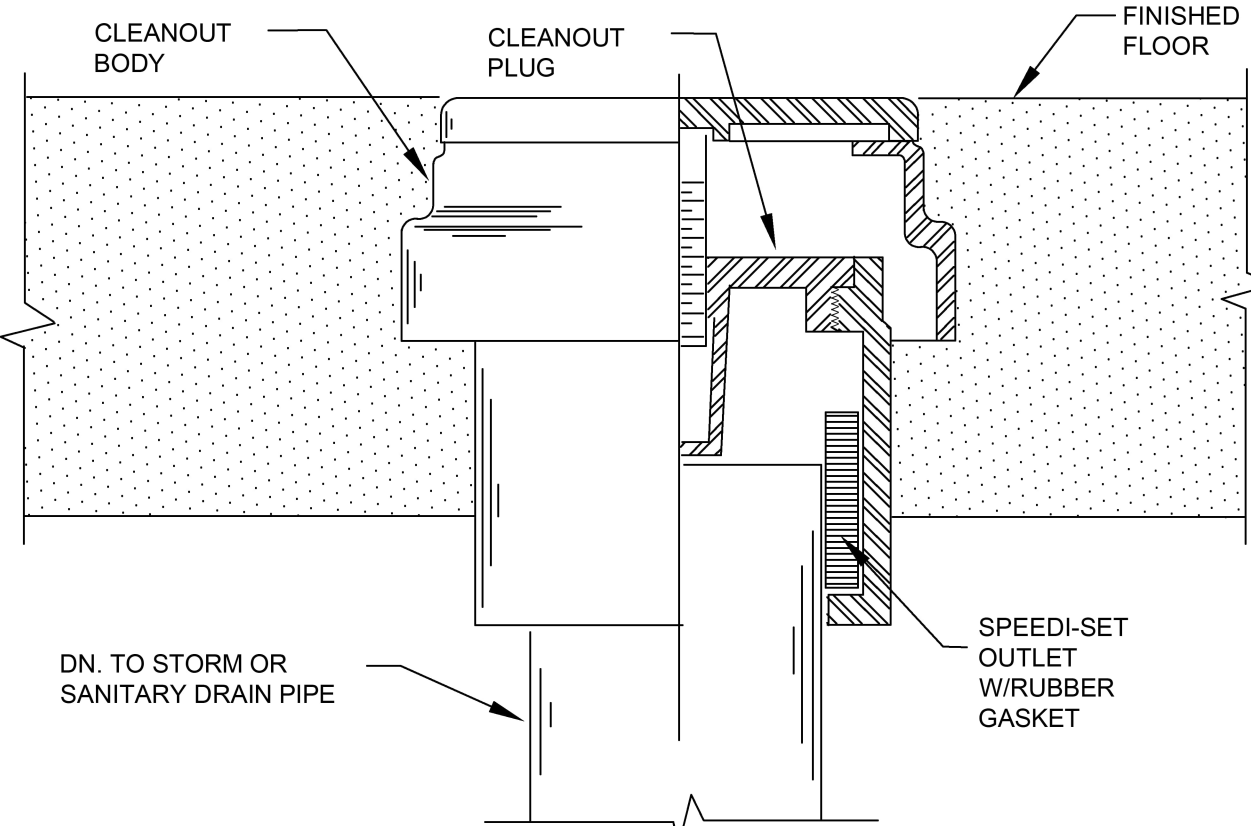
9 **COMPRESSED AIR DROP DETAIL**
P401 SCALE: NONE



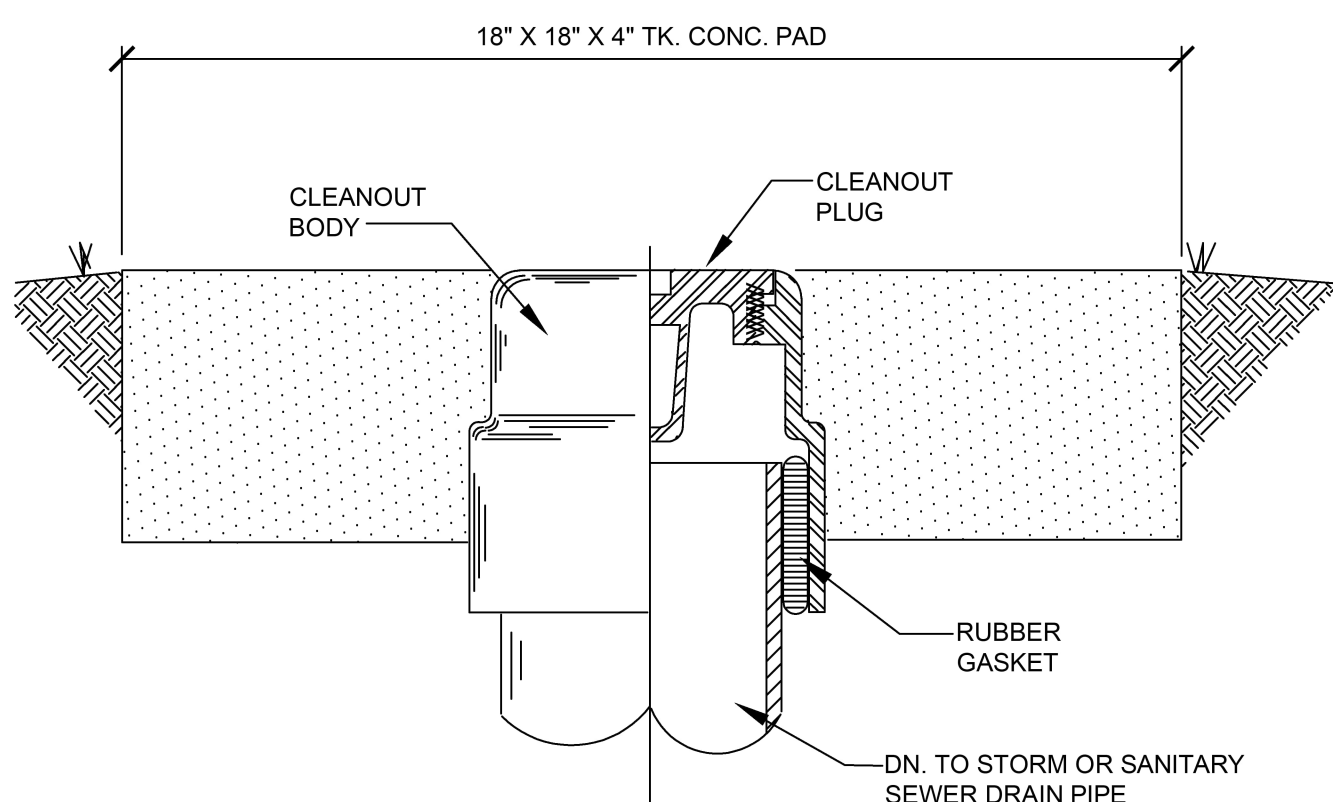
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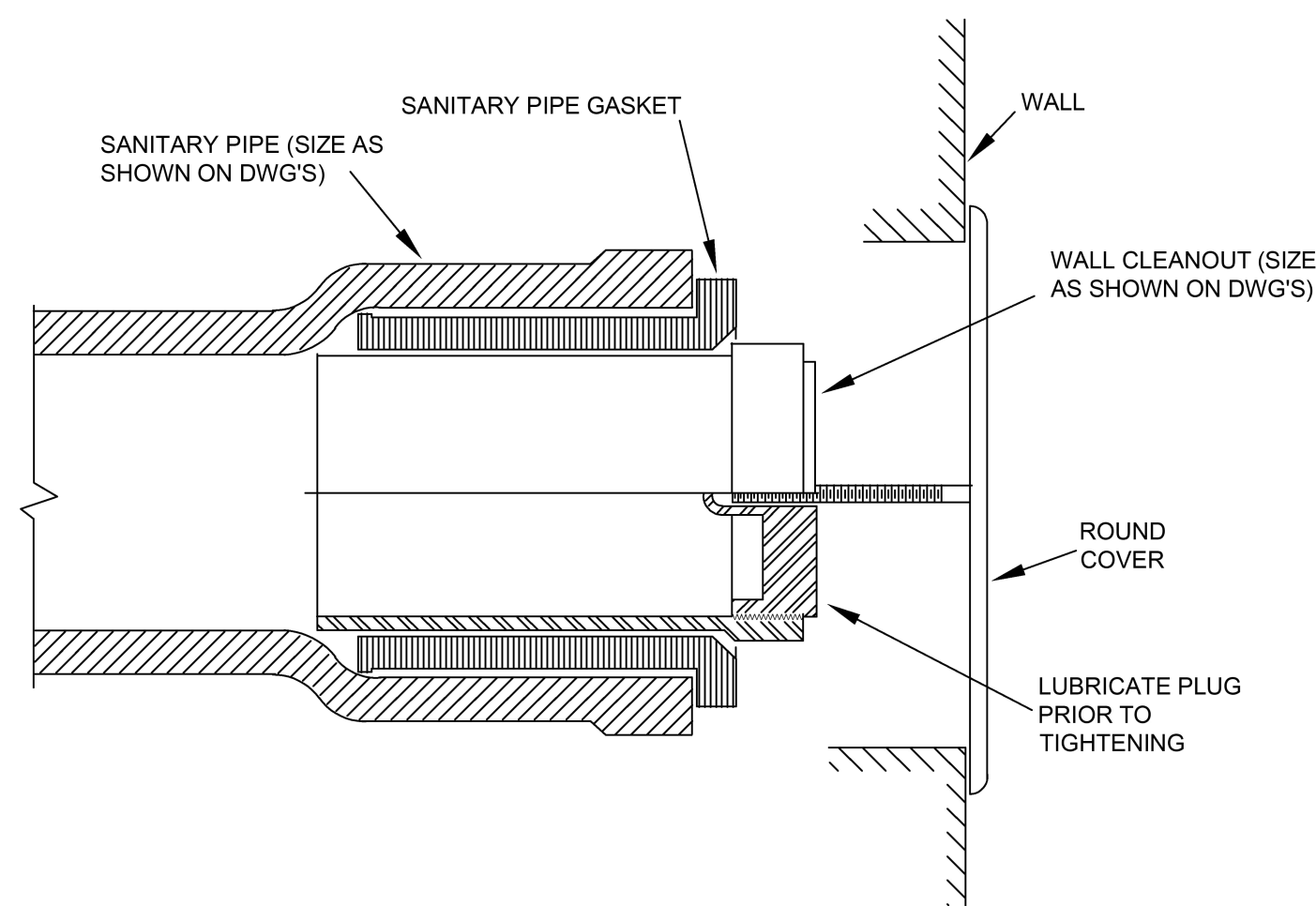
1 **FLOOR DRAIN DETAIL**
P401 SCALE: NONE



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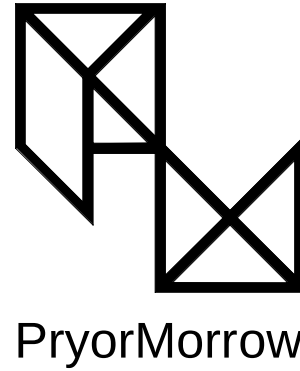
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LIGHT FIXTURE SCHEDULE								
TYPE MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE	VA	LUMENS	CCT	MOUNTING	DESCRIPTION
1	METALUX	24CZ-LD5-60-UNV-L83050-W2A1-U-3500K-	UNV	45	6000	3500K	RECESSED	SPECIFICATION GRADE 2X4 LAY-IN
1E	METALUX	24CZ-LD5-60-UNV-L83050-W2A1-U-3500K-EL10W	UNV	45	6000	3500K	RECESSED	SPECIFICATION GRADE 2X4 LAY-IN WITH EMERGENCY BATTERY PACK
2	METALUX	2WSNLED-LD4-28SL-F-UNV-L835-CD1-U	UNV	28	2800	3500K	SURFACE	LINEAR WRAP AROUND 4" SURFACE MOUNTED FIXTURE
2E	METALUX	2WSNLED-LD4-28SL-F-UNV-L835-CD1-U-EL10W	UNV	28	2800	3500K	SURFACE	LINEAR WRAP AROUND 4" SURFACE MOUNTED FIXTURE WITH EMERGENCY BATTERY PACK
3E	METALUX	2WSNLED-LD4-28SL-F-UNV-L835-CD1-U-EL10W-SCA	UNV	28	2800	3500K	SURFACE	LINEAR WRAP AROUND 4" STEM SET MOUNTED FIXTURE WITH EMERGENCY BATTERY PACK
4	METALUX	4WSNLED-LD4-60HL-F-UNV-L835-CD1-U	UNV	22	6000	3500K	SURFACE	LINEAR WRAP AROUND 2" SURFACE MOUNTED FIXTURE
5	METALUX	8LBLED-LD8ILED-LD5-28-W-FL-UNV-L835-CD4-U-4-22-SYMF-UNV-L840-CD2-U-AYC-CHAIN/SET/U	UNV	204	28000	3500K	PENDANT 12" A.F.F.	8" HIGH BAY LINEAR FIXTURE
5E	METALUX	8LBLED-LD8ILED-LD5-28-W-FL-UNV-L835-CD4-U-4-22-SYMF-UNV-L840-CD2-U-EL14W-AYC-CHAI...	UNV	204	28000	3500K	PENDANT 12" A.F.F.	8" HIGH BAY LINEAR FIXTURE WITH EMERGENCY BATTERY
6	McGRAW-EDISON	ISW-SA1-B-740-1-T3-FINISH	120V	45.2	3424	4000K	WALL	WALL MOUNTED LED FIXTURE. COORDINATE FINISH WITH ARCHITECT. PROVIDE COLOR CHARTS.
6E	McGRAW-EDISON	ISW-SA1-B-740-1-T3-FINISH-CBP	120V	45.2	3424	4000K	WALL	WALL MOUNTED LED FIXTURE WITH EMERGENCY BATTERY. COORDINATE FINISH WITH ARCHITECT. PROVIDE COLOR CHARTS.
7	McGRAW-EDISON	GWC-SA2D-740-U-T4FT	UNV	129.0	16290	4000K	WALL	16" WALL MOUNTED FLOODLIGHT
X1	ATLITE	RXSN8RU	120/277	5	-	-	CEILINGWALL	STEEL CAST EXIT SIGN
NOTES:								
1. FINISHES TO BE SELECTED BY ARCHITECT FOR ALL FIXTURES WITH EXPOSED FINISH. PROVIDE COLOR/FINISH CHARTS FOR ARCHITECT'S REVIEW.								
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH REFLECTED CEILING PLANS AND PROVIDING ALL THE NECESSARY FRAMES AND RELATED ITEMS AS REQUIRED FOR THE MOUNTING OF THE LIGHT FIXTURES PER THE PLANS. INCLUDE ALL COST ASSOCIATED WITH THIS IN THE COST OF THIS PROJECT. NO CHANGE ORDER WILL BE PROCESSED FOR FIXTURE MODIFICATIONS. THE CONTRACTOR SHALL PAY CLOSE ATTENTION TO THE USE OF 'NARROW GRID' CEILINGS AND PROVIDE THE NECESSARY FRAMES FOR THE FIXTURES AS REQUIRED FOR PROPER INSTALLATION.								
3. PROVIDE FIXTURE WHIPS WITH ALL NECESSARY CONDUCTORS FOR FIXTURE POWER AND 0-10V DIMMING IF REQUIRED.								
4. AIMABLE FIXTURES TO BE AIMED IN THE PRESENCE OF ARCHITECT OR ENGINEER.								
5. PROVIDE GROMMETT IN CEILING TILE FOR ALL PENETRATIONS FOR FIXTURE SUPPORT, POWER FEEDS, ETC..								
6. VERIFY THAT ALL FIXTURE TYPES ARE PROVIDED WITH THE NECESSARY DRIVER TO MEET SPECIFIED LIGHTING CONTROL PLATFORM.								



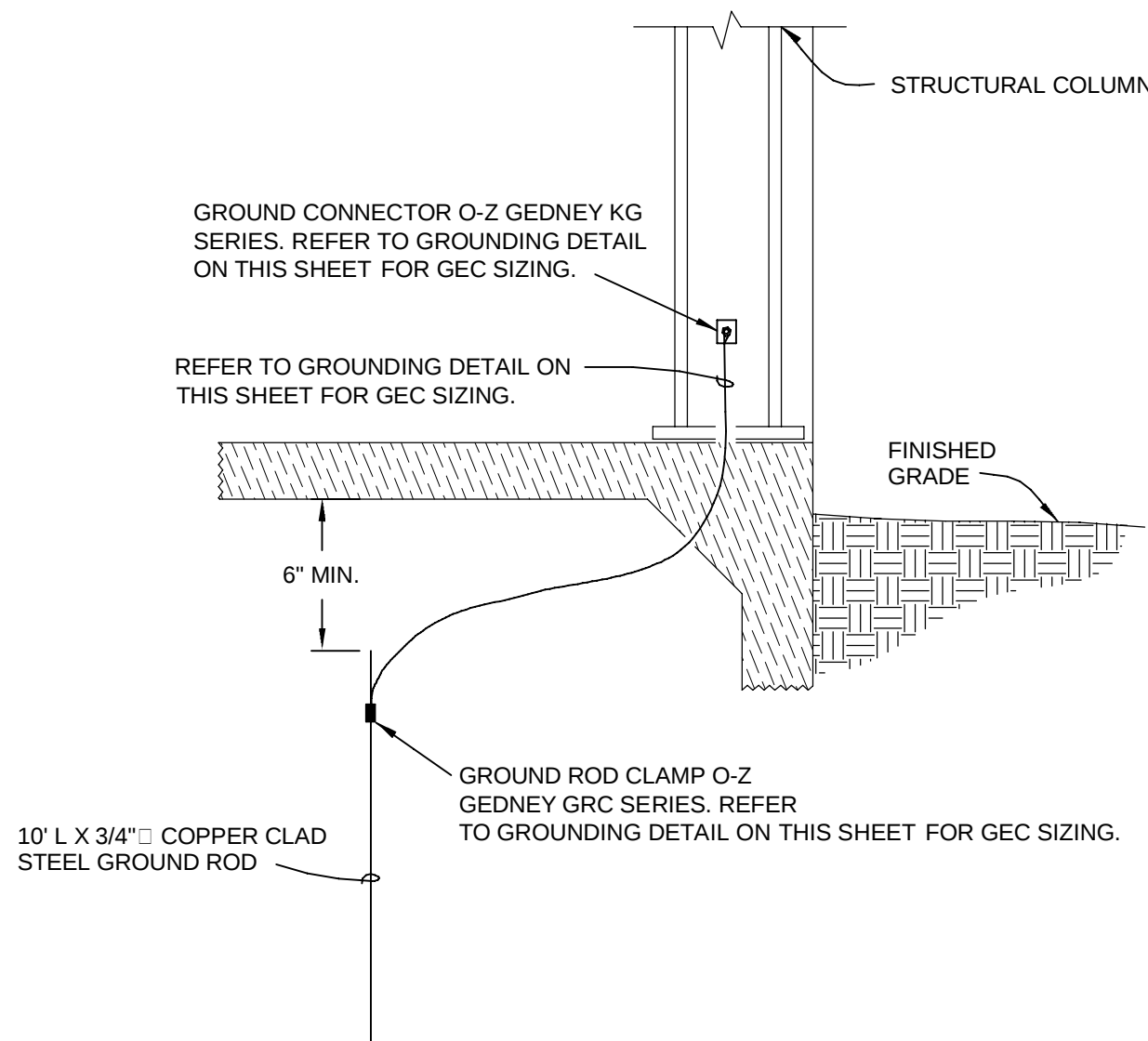
ELECTRICAL LEGEND									
SYMBOL	DESCRIPTION	MOUNTING	SYMBOL	DESCRIPTION	MOUNTING	SYMBOL	DESCRIPTION	MOUNTING	
POWER			COMMUNICATIONS			LIGHTING CONTROLS			
	CONDUIT CONCEALED - (3) #12 MAX. IN 1/2" CONDUIT	...		VOICE / DATA OUTLET - 5" SQUARE BOX WITH SINGLE GANG PLASTER RING. PROVIDE 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE 2 DATA DROPS TO THIS LOCATION U.O.N.	18" A.F.F.		SINGLE POLE TOGGLE SWITCH - NORMAL BRANCH	WALL AT 46" A.F.F. TO CL.	
	CONDUIT EXPOSED - (3) #12 MAX. IN 1/2" CONDUIT	...					LIGHTING MANAGEMENT HUB	MOUNT PER MFG. RECOMMEND	
	HOMERUN CONDUIT - (3) #12 MAX. IN 1/2" CONDUIT	...		WIRELESS ACCESS POINT OUTLET - 5" SQUARE BOX WITH SINGLE GANG PLASTER RING. PROVIDE 1 1/4" CONDUIT TO THIS LOCATION U.O.N.	ABOVE ACCESSIBLE CEILING		CEILING OCCUPANCY / VACANCY SENSOR	CEILING	
	SURFACE MOUNTED OR RECESSED LIGHT FIXTURE. LIGHT FIXTURE DESIGNATION TO DETERMINE TYPE.	SEE LIGHT FIXTURE SCHEDULE		WIRELESS WALL SWITCH - # BUTTON. COORDINATE FINISH WITH ARCHITECT. PROVIDE COLOR CHARTS.	WALL AT 46" A.F.F. TO CL.		WALL SWITCH WITH INTEGRAL DUAL TECHNOLOGY OCCUPANCY SENSOR	WALL AT 46" A.F.F. TO CL.	
	INDICATES FIXTURE WITH EMERGENCY BATTERY.	SEE LIGHT FIXTURE SCHEDULE		WALL AT 46" A.F.F. TO CL.	WALL AT 46" A.F.F. TO CL.		PHOTOCELL SWITCH FOR EXTERIOR LIGHTING CONTROL. FACE NORTHERN-MOST SKY.	SEE DRAWINGS	
	EXIT LIGHT - HATCH INDICATES NUMBER OF FACES. CONNECT TO NON-SWITCHED BRANCH CIRCUIT.	SEE LIGHT FIXTURE SCHEDULE		DATA SYSTEM GROUND BAR. 2"x24"x1/8" COPPER GROUND BAR. SEE GROUNDING DETAIL AND SPECIFICATIONS	SEE SPECS		POWER PACK RELAY MODULE	ABOVE ACCESSIBLE CEILING	
	ELECTRICAL PANEL BOARD - SURFACE / RECESSED	WALL PER N.E.C.		BELL COMPATIBLE WITH EXISTING LATHEM SONACHRON DWA-S BELL SYSTEM	WALL AT 90" A.F.F. TO CL.		POWER PACK DIMMING MODULE	ABOVE ACCESSIBLE CEILING	
	LIGHT FIXTURE DESIGNATION NUMBER - CORRESPONDS WITH LIGHT FIXTURE SCHEDULE	...		OUTLET FOR INTERCOM BUTTON. - 5" SQUARE BOX MOUNTED WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. CABLING PER SPECIFICATION REQUIREMENTS. MATCH EXISTING INTERCOM BUTTONS.	WALL AT 46" A.F.F. TO CL.	GENERAL			
	20A/1P 120V DUPLEX RECEPTACLE - ALL RECEPTACLES TO BE TAMPER RESISTANT TYPE.	WALL AT 18" A.F.F. TO CL.		INTERCOM SPEAKER - 5" SQUARE BOX WITH SINGLE-GANG PLASTER RING. PROVIDE 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. CABLING PER SPECIFICATION REQUIREMENTS. MATCH EXISTING INTERCOM SPEAKER.	CEILING		EXISTING ELECTRICAL DEVICE OR LIGHTING FIXTURE	PER DEVICE	
	20A/1P 120V DUPLEX RECEPTACLE TO BE MOUNTED ABOVE COUNTER - ALL RECEPTACLES TO BE TAMPER RESISTANT TYPE. COORDINATE LOCATION WITH MILLWORK AND ARCHITECT. U.O.N.	...					WEATHERPROOF ELECTRICAL DEVICE	PER DEVICE	
	20A/1P 120V GFCI DUPLEX RECEPTACLE WITH WEATHERPROOF COVER - ALL RECEPTACLES TO BE TAMPER RESISTANT TYPE.	WALL AT 18" A.F.F. TO CL.	FIRE ALARM					SURGE PROTECTION DEVICE	AS NOTED ON PLANS
	20A/1P 120V GFCI DUPLEX RECEPTACLE - ALL RECEPTACLES TO BE TAMPER RESISTANT TYPE	WALL AT 18" A.F.F. TO CL.		FIRE ALARM SMOKE DETECTOR	SURFACE/ CEILING U.O.N.		FIRE ALARM HEAT DETECTOR	UNLESS OTHERWISE NOTED	...
	20A/1P 120V GFCI DUPLEX RECEPTACLE - ALL RECEPTACLES TO BE TAMPER RESISTANT TYPE	WALL AT 18" A.F.F. TO CL.		FIRE ALARM MANUAL PULL STATION	WALL AT 46" A.F.F. TO CL.		UNDERGROUND SECONDARY ELECTRICAL SERVICE	...	
	20A/1P 120V GFCI DUPLEX RECEPTACLE TO BE MOUNTED ABOVE COUNTER - ALL RECEPTACLES TO BE TAMPER RESISTANT TYPE. COORDINATE LOCATION WITH MILLWORK AND ARCHITECT. U.O.N.	...		FIRE ALARM AUDIO/VISUAL DEVICE - SPEAKER/STROBE	WALL AT 90" A.F.F. TO CL.		UNDERGROUND COMMUNICATIONS	...	
	SIMPLEX RECEPTACLE - SEE PLANS FOR SPECIFIC VOLTAGE & NEMA TYPE	AS NOTED ON PLANS		FIRE ALARM VISUAL ONLY DEVICE - STROBE	WALL AT 90" A.F.F. TO CL U.O.N.		OVERHEAD PRIMARY ELECTRICAL SERVICE	...	
	VARIABLE FREQUENCY DRIVE	AS NOTED ON PLANS		FIRE ALARM COMBINATION HEAT / CARBON MONOXIDE DETECTOR	MOUNT PER FIRE PROTECTION	DOOR ACCESS CONTROLS			
	ELECTRICAL JUNCTION BOX OR SYSTEMS BACK BOX	AS NOTED ON PLANS		DUCT MOUNTED SMOKE DETECTOR - REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITY OF ALL SMOKE DAMPERS AND DETECTORS. S - SUPPLY, R - RETURN, E - EXHAUST	AS NOTED ON PLANS				
	MOTOR-RATED SWITCH	AT UNIT		DOOR ACCESS CONTROL DESIGNATION SEE CORRESPONDING DETAIL ON SHEET E0.2.					
	NON-FUSED DISCONNECT SWITCH - SEE DRAWINGS FOR TYPE	AT UNIT		FIRE ALARM SYSTEM CONTROL PANEL	SEE SPECS				
				FIRE ALARM SYSTEM ANNUNCIATOR PANEL	WALL AT 60" A.F.F. TO CL.				
				FIRE ALARM CONNECTION. SEE SPECIFICATION SECTION 283111 FOR REQUIREMENTS.	AS NOTED ON PLANS				

SYSTEMS COORDINATION SCHEDULE

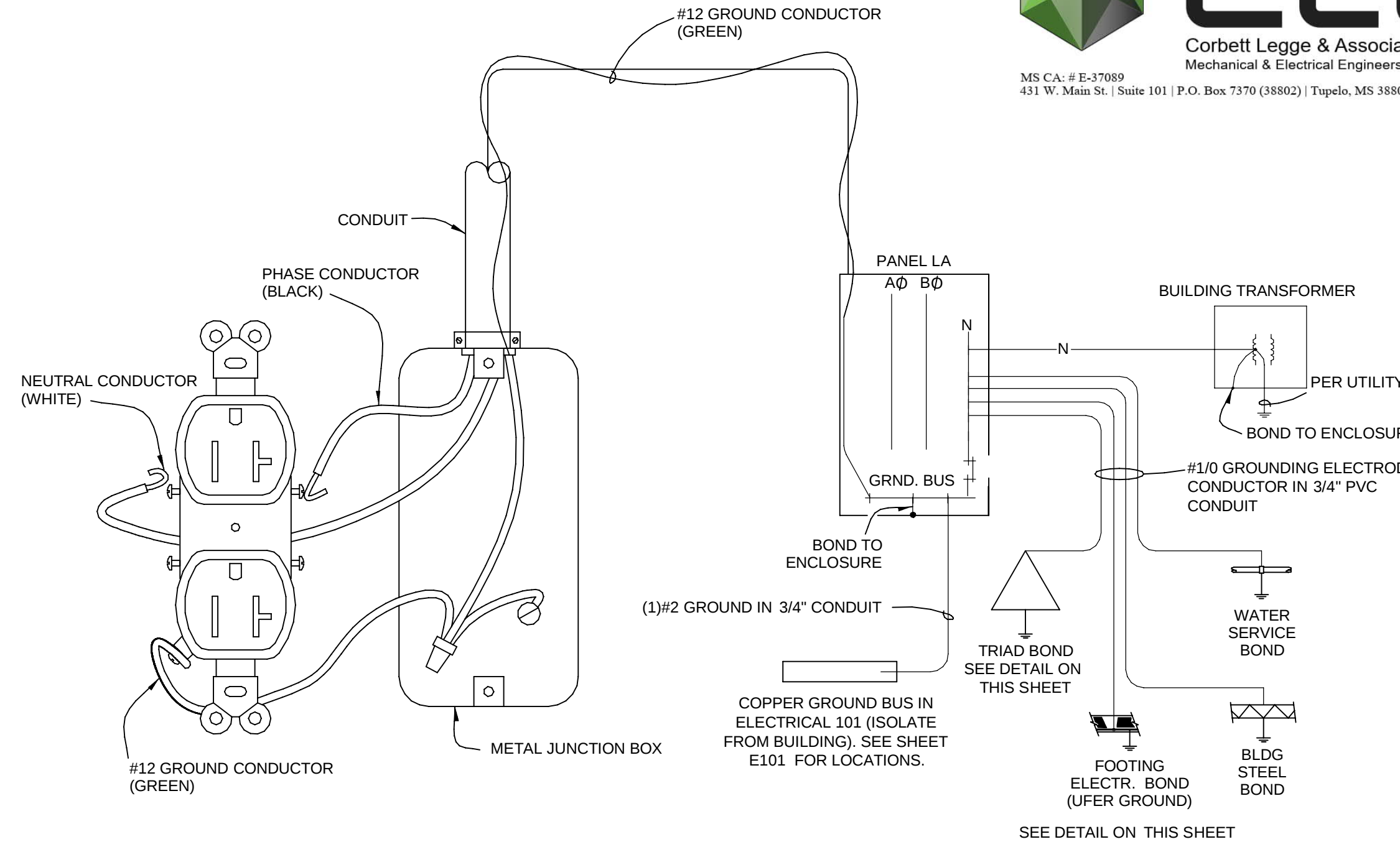
SYSTEM	DEVICE TYPE	SYSTEM FURNISHED BY	SYSTEM INSTALLED BY	ROUGH-IN PROVIDED BY	BOX SIZE	BOX DEPTH	WIRING BETWEEN DEVICES BY	FULL CONDUIT	CONDUIT STUB	REMARKS
FIRE ALARM	PULL STATION	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #3	NOTE #3	ELECTRICAL CONTRACTOR	X		ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
FIRE ALARM	FLASHING LIGHT ONLY	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #3	NOTE #3	ELECTRICAL CONTRACTOR	X		ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
FIRE ALARM	SPEAKER/STROBES	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #3	NOTE #3	ELECTRICAL CONTRACTOR	X		ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
FIRE ALARM	HEAT DETECTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #3	NOTE #3	ELECTRICAL CONTRACTOR	X		ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
FIRE ALARM	SMOKE DETECTOR - CEILING	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #3	NOTE #3	ELECTRICAL CONTRACTOR	X		ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
FIRE ALARM	SMOKE DETECTOR - DUCT	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #3	NOTE #3	ELECTRICAL CONTRACTOR	X		ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
FIRE ALARM	HEAD-END EQUIPMENT	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #3	NOTE #3	ELECTRICAL CONTRACTOR	X		ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
VOICE DATA	WORKSTATION OUTLETS	OWNERS VENDOR	OWNERS VENDOR	ELECTRICAL CONTRACTOR	NOTE #1	NOTE #2	ELECTRICAL CONTRACTOR		X	ELECTRICAL CONTRACTOR PROVIDESROUGH-IN & CABLING ONLY
VOICE DATA	FIBER DISTRIBUTION	OWNERS VENDOR	OWNERS VENDOR	ELECTRICAL CONTRACTOR	N/A	N/A	ELECTRICAL CONTRACTOR	X		ELECTRICAL CONTRACTOR PROVIDESROUGH-IN & CABLING ONLY
VOICE DATA	RACKS & WIRE MGMT	OWNERS VENDOR	OWNERS VENDOR	N/A	N/A	N/A	N/A	N/A	N/A	ELECTRICAL CONTRACTOR PROVIDES ROUGH-IN ONLY
VOICE DATA	UPS	OWNERS VENDOR	OWNERS VENDOR	N/A	N/A	N/A	N/A	N/A	N/A	ELECTRICAL CONTRACTOR PROVIDES ROUGH-IN ONLY
VOICE DATA	WIRELESS	OWNERS VENDOR	OWNERS VENDOR	ELECTRICAL CONTRACTOR	NOTE #1	NOTE #2	N/A		X	ELECTRICAL CONTRACTOR PROVIDESROUGH-IN & CABLING ONLY
VOICE DATA	PATCH PANELS	OWNERS VENDOR	OWNERS VENDOR	N/A	N/A	N/A	N/A	N/A	N/A	ELECTRICAL CONTRACTOR PROVIDES ROUGH-IN ONLY
VOICE DATA	PATCH CABLES	OWNERS VENDOR	OWNERS VENDOR	N/A	N/A	N/A	N/A	N/A	N/A	ELECTRICAL CONTRACTOR PROVIDES ROUGH-IN ONLY
VOICE DATA	NETWORK SWITCHES	OWNERS VENDOR	OWNERS VENDOR	N/A	N/A	N/A	N/A	N/A	N/A	ELECTRICAL CONTRACTOR PROVIDES ROUGH-IN ONLY
INTERCOM	SPEAKERS	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #4	NOTE #4	ELECTRICAL CONTRACTOR		X	ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
INTERCOM	CALL BUTTON	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #4	NOTE #4	ELECTRICAL CONTRACTOR		N/A	ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM
BELL	BELL	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NOTE #4	NOTE #4	ELECTRICAL CONTRACTOR		N/A	ELECTRICAL CONTRACTOR PROVIDES COMPLETE SYSTEM

- NOTES:
- 5 SQUARE BACKBOX (RANDL IND. T-55017) WITH SINGLE GANG PLASTER RING
 - 2.875" DEEP
 - REFER TO SPEC SECTION 283111 FOR VENDOR REQUIREMENTS FOR EACH DEVICE TYPE.
 - COORDINATE EXACT SIZE WITH VENDOR.

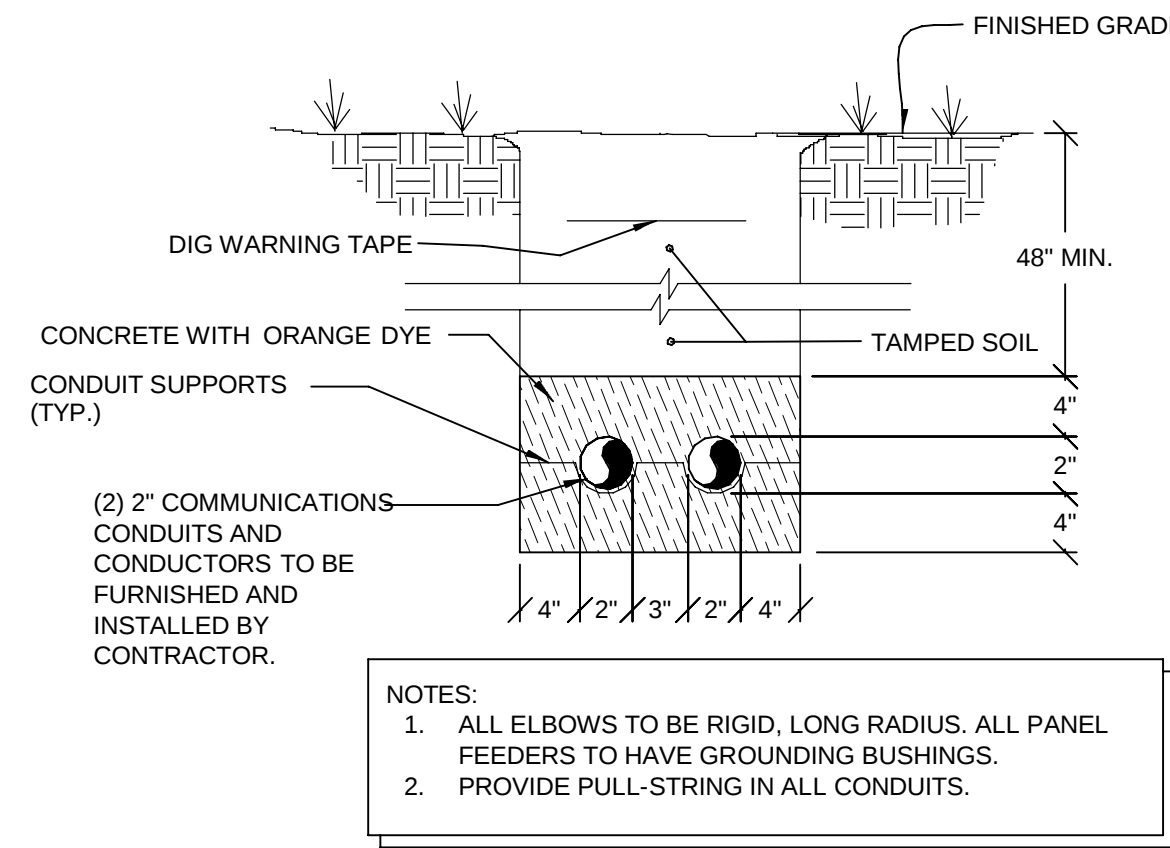
1 BLDG STEEL GROUNDING
E0.2 N.T.S.



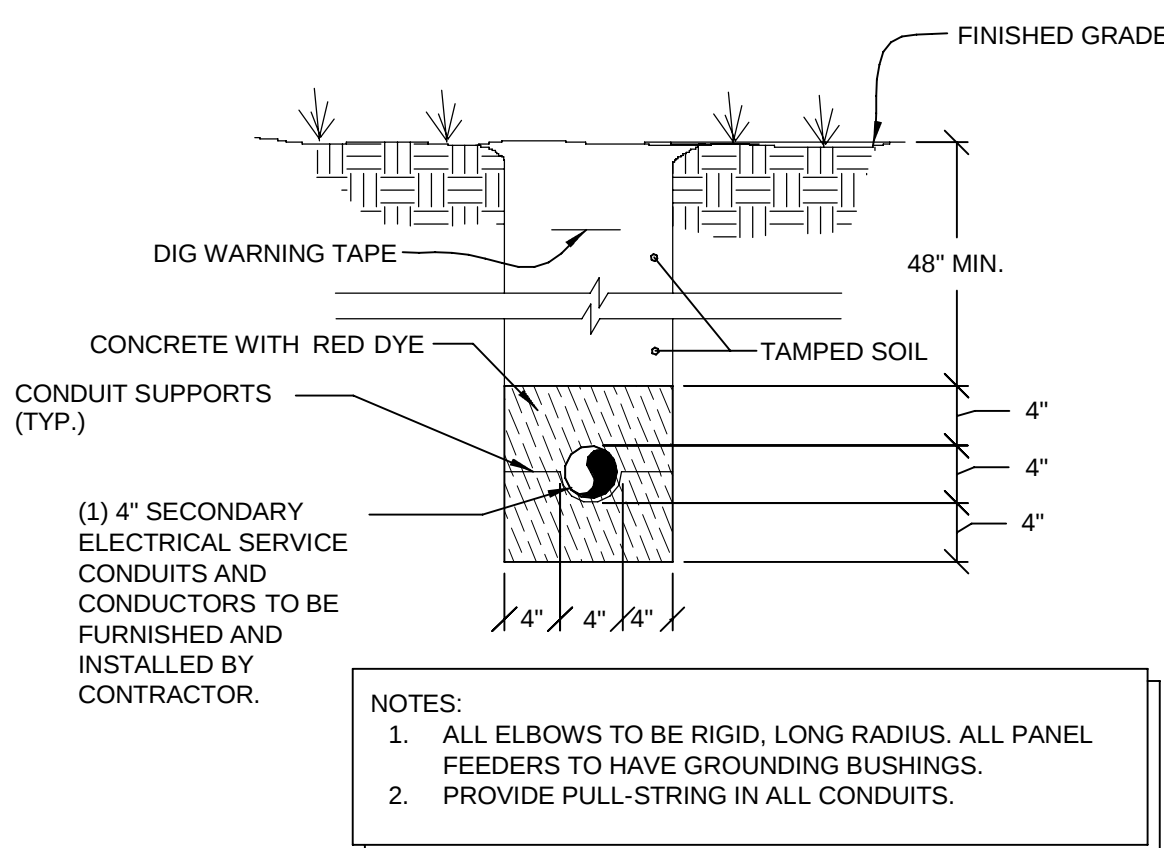
2 GROUNDING DETAIL
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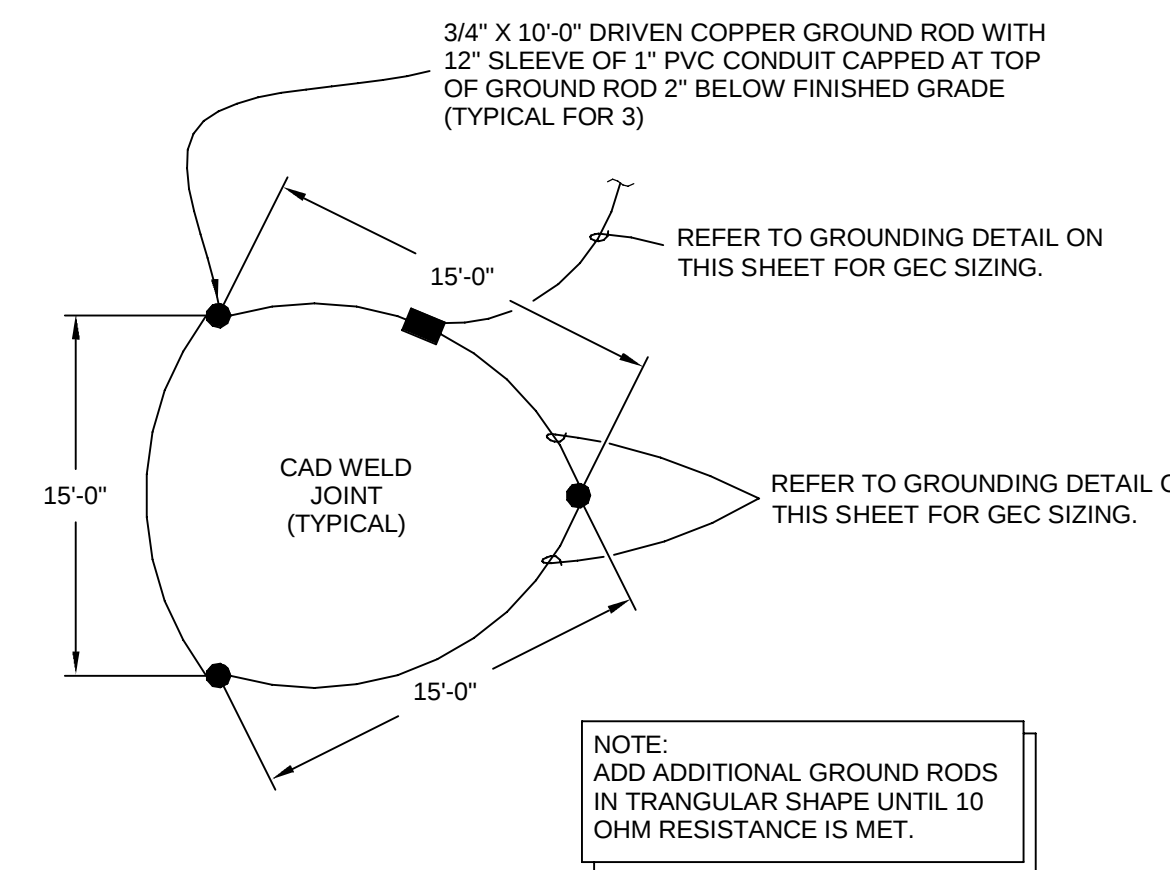
4 UNDERGROUND COMMUNICATIONS (UGC)
E0.2 N.T.S.



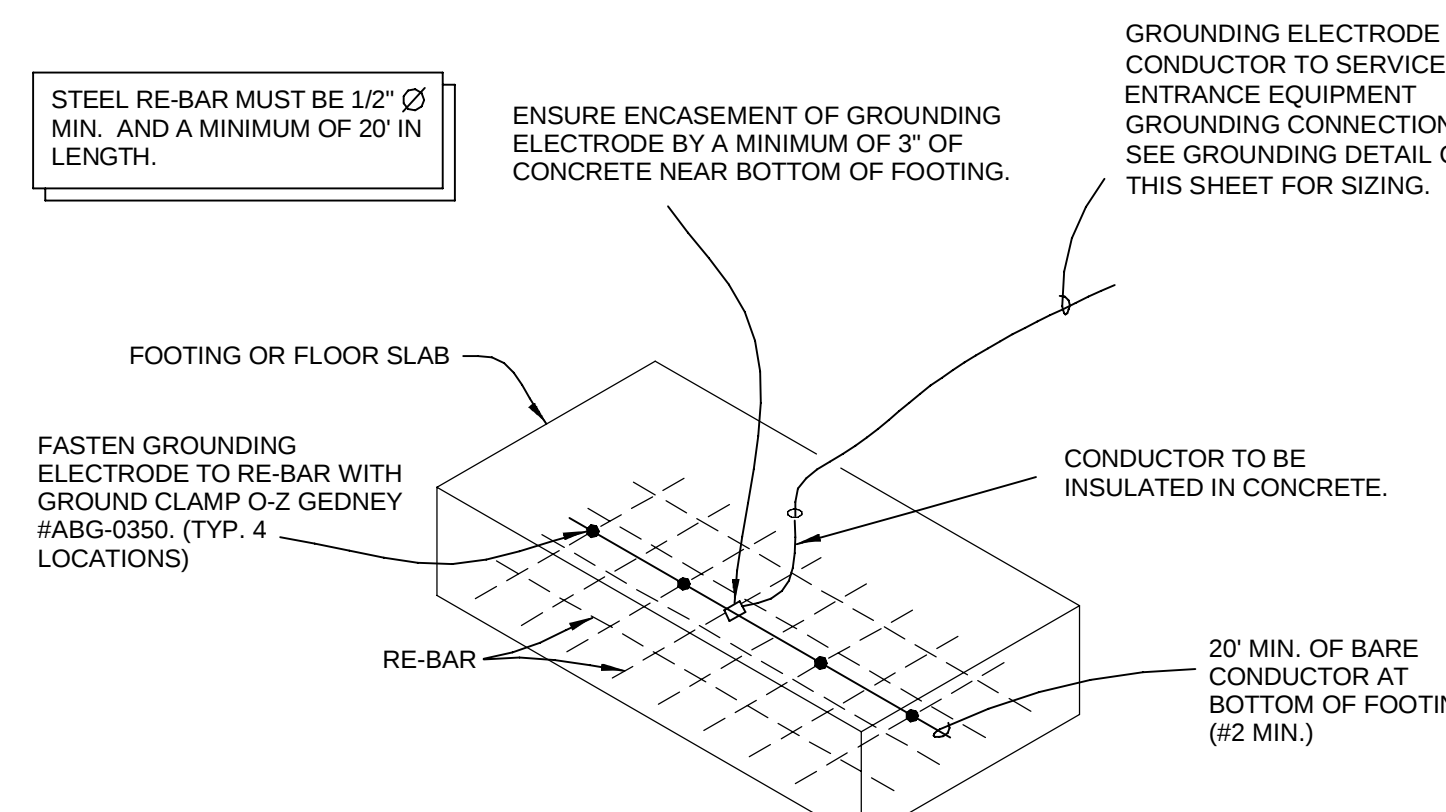
5 UNDERGROUND SECONDARY (UGS)
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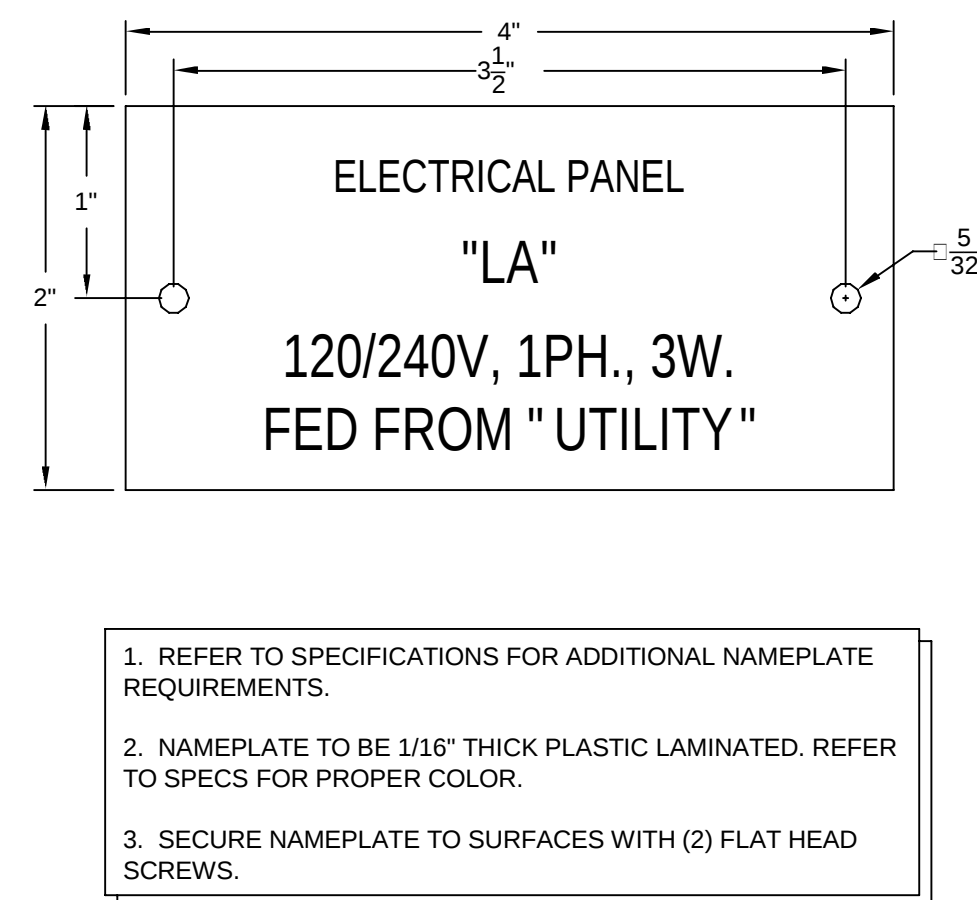
6 GROUNDING TRIAD DETAIL
E0.2 N.T.S.



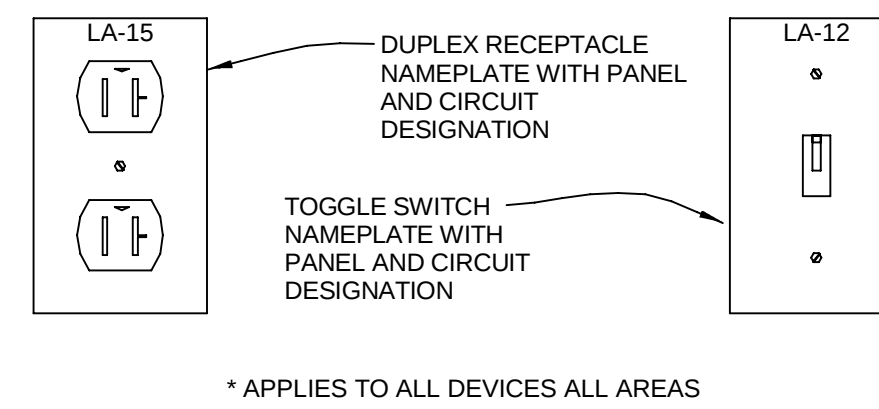
7 UFER GROUND DETAIL
E0.2 N.T.S.



8 PANEL LABELING DETAIL
E0.2 N.T.S.

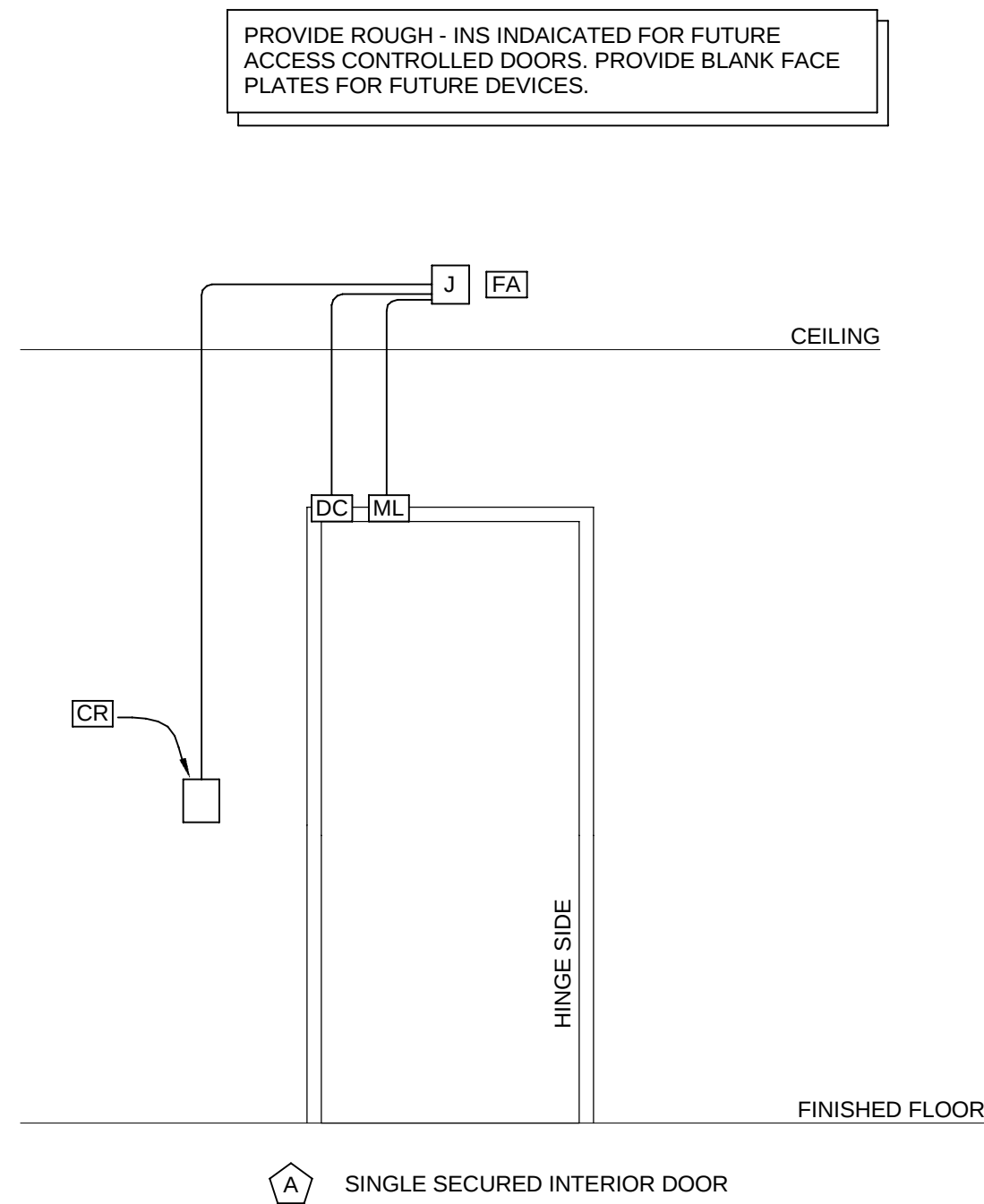


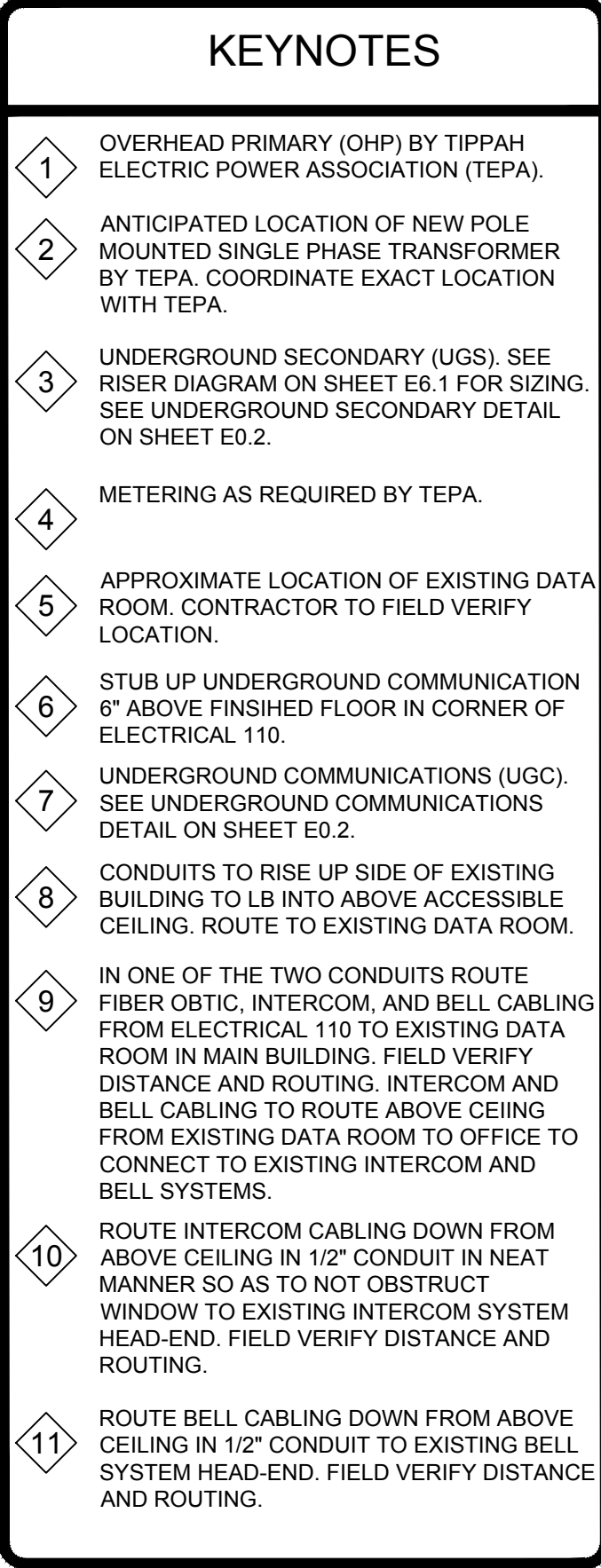
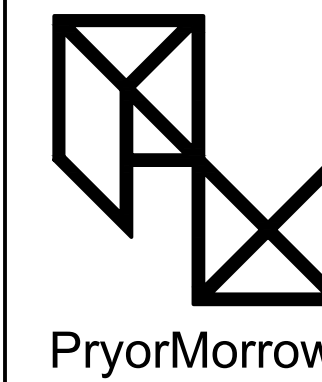
9 DEVICE LABELING DETAIL
E0.2 N.T.S.



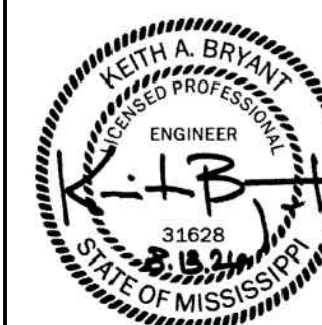
DOOR ACCESS CONTROL LEGEND				
SYMBOL	DESCRIPTION	MOUNTING	CONDUIT SIZE	BOX TYPE
[CR]	CARD READER INSTALL OUT OF SWING PATH OF DOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.	WALL AT 48" A.F.F. TO □ U.O.N.	1"	4" SQUARE
[ML]	MAGNETIC LOCK	MOUNT PER VENDOR RECOMMENDATIONS	1"	N/A
[DC]	DOOR CONTACT	MOUNT PER VENDOR RECOMMENDATIONS	1/2"	N/A
[FA]	FIRE ALARM CONNECTION - FOR DOOR RELEASE. SEE SPECIFICATIONS.	COORDINATE WITH VENDOR	COORDINATE WITH FIRE ALARM VENDOR	N/A
[J]	5" SQUARE JUNCTION BOX. TO BE INSTALLED ON SECURE SIDE OF DOOR.	ABOVE CEILING	N/A	5" SQUARE
LR	LOCK RELEASE	MOUNT PER VENDOR RECOMMENDATIONS	N/A	N/A
RTE	REQUEST TO EXIT	MOUNT PER VENDOR RECOMMENDATIONS	N/A	N/A
[A]	DOOR DETAIL DESIGNATION	...	...	...
DOOR ACCESS CONTROL NOTES: 1. SEE SPECIFICATIONS SECTION 281500 FOR ACCESS CONTROL COMPONENT AND CABLING MODEL NUMBERS AND REQUIREMENTS. 2. COORDINATE ALL ROUGH-INS WITH SECTION 087100 PRIOR TO WORK BEING PERFORMED. 3. COORDINATE ALL BACKBOX LOCATIONS WITH ARCHITECT AND DOOR HARDWARE VENDOR PRIOR TO ROUGH IN. 4. ELECTRICAL CONTRACTOR SHALL COORDINATE SECURITY REQUIREMENTS WITH THE GENERAL CONTRACTOR. 5. ALL ACCESS CONTROLLED DOORS ARE TO HAVE FIRE ALARM CONNECTIONS TO RELEASE LOCKS IN AN EMERGENCY EVENT. 6. REFER TO SYSTEMS COORDINATION SCHEDULE.				

3 DOOR ACCESS CONTROL DETAIL
E0.2 N.T.S.





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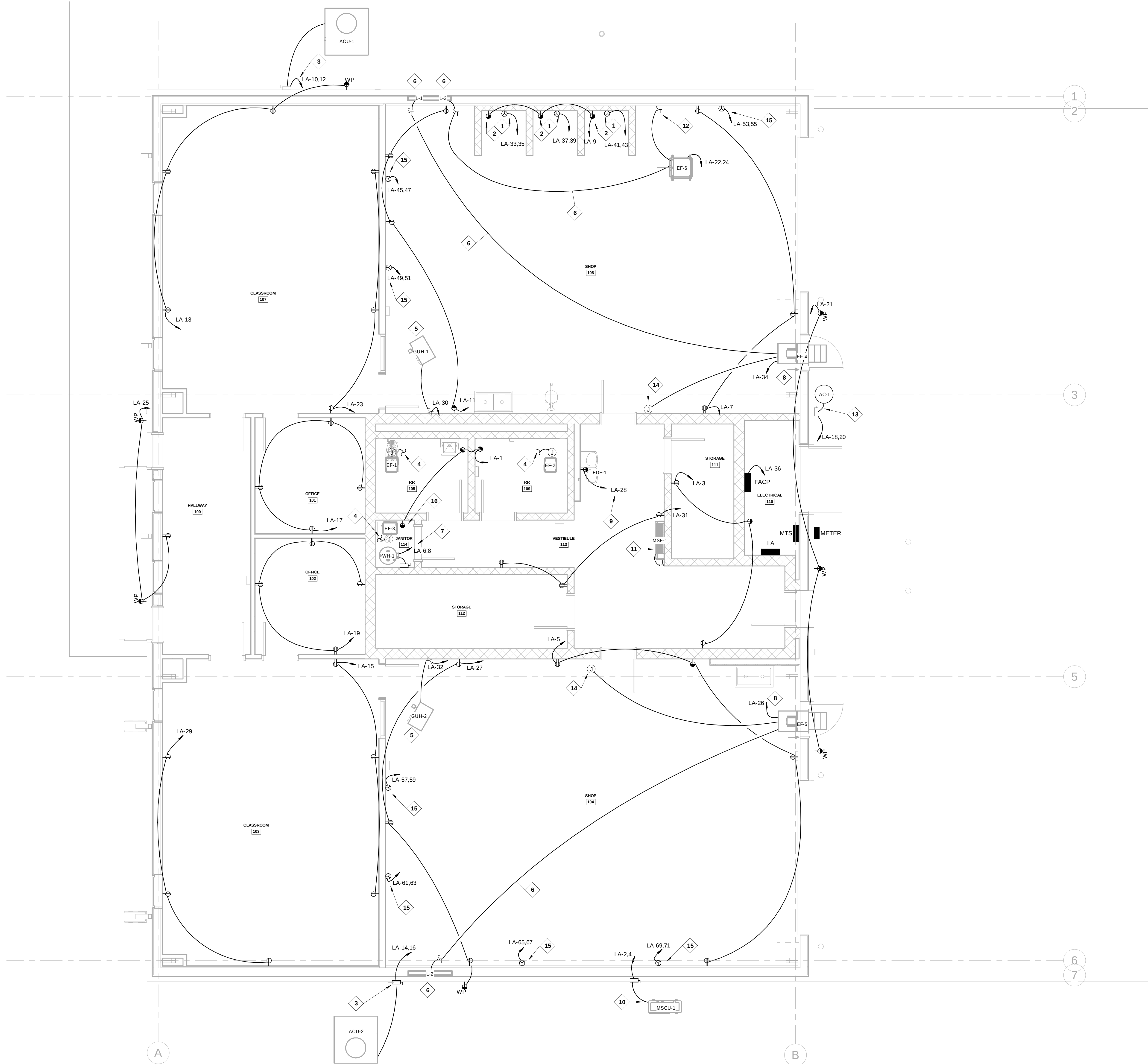
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ELECTRICAL
SITE PLAN

ES1.1

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1
E1.1
POWER PLAN
1/4" = 1'-0"



KEYNOTES

- 1 PROVIDE NEMA 6-50R SIMPLEX RECEPTACLE FOR WELDING BOOTH. COORDINATE HEIGHT WITH OWNER.
- 2 PROVIDE GFCI 20A/1P CONVENIENCE RECEPTACLE WITH WEATHERPROOF COVER FOR WELDING BOOTH. COORDINATE EXACT LOCATION AND FINISH WITH ARCHITECT.
- 3 POWER CONNECTION FOR AIR HANDLING UNIT (ACU-#) PROVIDE 60A/2P/NF/NEMA3R DISCONNECT ON WALL ADJACENT UNIT. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 4 CONNECT EXHAUST FAN (EF-#) TO LIGHTING CIRCUIT SERVING AREA. SEE KEYNOTE 1 ON SHEET E2.1.
- 5 POWER CONNECTION FOR GAS UNIT HEATER (GUH-#). PROVIDE 20A/1P MOTOR RATED SWITCH. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 6 POWER CONNECTION FOR LOUVER. PROVIDE 3 #12 IN 1/2" CONDUIT. THE RESPECTIVE LOUVER ACTUATOR SHALL OPEN WHEN THE FAN IS ON. EXHAUST FAN CONTROLLED BY LINE VOLTAGE THERMOSTAT. MOTOR RATED SWITCH. INTERLOCK WIRING (120V) AND CONTACTORS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. LINE VOLTAGE THERMOSTAT AND LOUVER ACTUATOR TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. SEE MECHANICAL SHEET M3.1 FOR SEQUENCE OF OPERATION.
- 7 POWER CONNECTION FOR WATER HEATER (WH-1). PROVIDE 30A/2P/NF/ NEMA1 DISCONNECT. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 8 POWER CONNECTION FOR EXHAUST FAN (EF-#). PROVIDE 20A/1P BREAKER. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 9 POWER CONNECTION FOR ELECTRIC DRINKING FOUNTAIN (EDF). RECEPTACLE TO BE ON COMPRESSOR SIDE OF FOUNTAIN. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 10 POWER CONNECTION FOR MINI SPLIT CONDENSING UNIT (MSCU-1). PROVIDE 30A/2P/NF/NEMA3R DISCONNECT. PROVIDE POWER FEED TO MSE-1. SEE KEYNOTE 11 ON THIS SHEET. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH CONTRACTOR.
- 11 POWER CONNECTION FOR MINI SPLIT EVAPORATOR (MSE-1). PROVIDE 20A/2P MOTOR RATED SWITCH DISCONNECT ADJACENT UNIT. POWER SERVED FROM CONDENSING UNIT. "MSCU-1" PROVIDE 1" CONDUIT TO CONDENSING UNIT MSCU-1 FOR CONTROLS. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 12 PROVIDE MS-1P SINGLE PHASE MOTOR STARTER SWITCH OR EQUIVALENT TO EF-6. COORDINATE EXACT LOCATION WITH ARCHITECT.
- 13 POWER CONNECTION FOR AIR COMPRESSOR (AC-1). PROVIDE 60A/2P/NF/NEMA1 DISCONNECT. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 14 PROVIDE INTERLOCK WIRING (120V) AND CONDUIT FOR LINE VOLTAGE THERMOSTAT REFER TO KEYNOTE 6 ON THIS SHEET. SEE MECHANICAL SHEET M3.1 FOR SEQUENCE OF OPERATION. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 15 PROVIDE NEMA 6-30R SIMPLEX RECEPTACLE FOR EQUIPMENT.
- 16 POWER CONNECTION FOR HOT WATER CIRCULATING PUMP (HWRP-1).

ALL DEVICES AND RACEWAY IN STORM SHELTER TO BE SURFACE MOUNTED.

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POWER PLAN

E1.1

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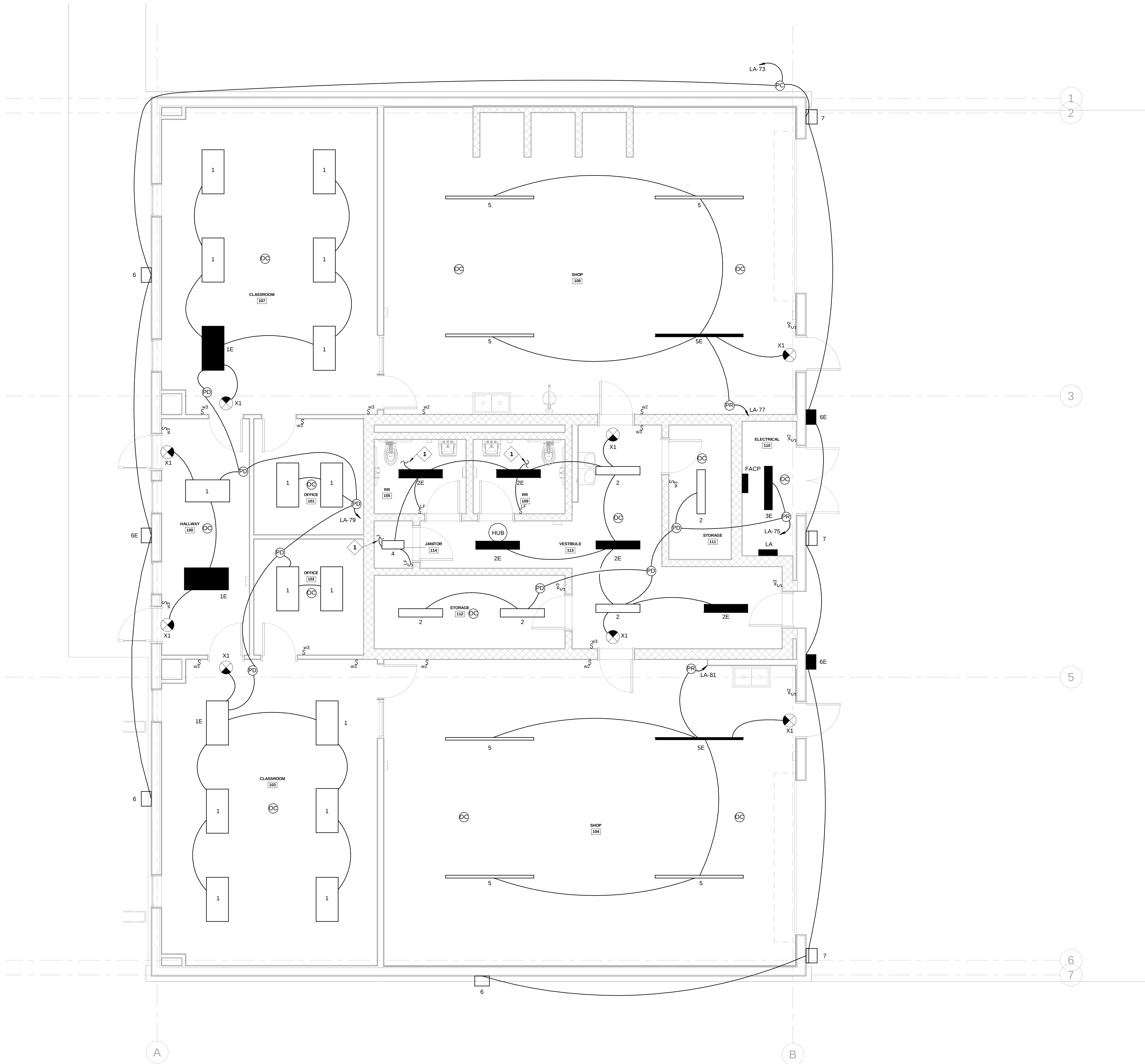
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KEYNOTES

- 1 EXTEND LIGHTING CIRCUIT TO EXHAUST FAN.
SET TIME DELAY ADJUSTMENT TO 15 MINUTES
FOR FAN/TIME DELAY SWITCH. SEE KEYNOTE 4
ON SHEET E1.1

ALL DEVICES AND RACEWAY IN STORM SHELTER TO BE
SURFACE MOUNTED.

1
E2.1
LIGHTING PLAN
1/4" = 1'-0"



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LIGHTING PLAN

E2.1

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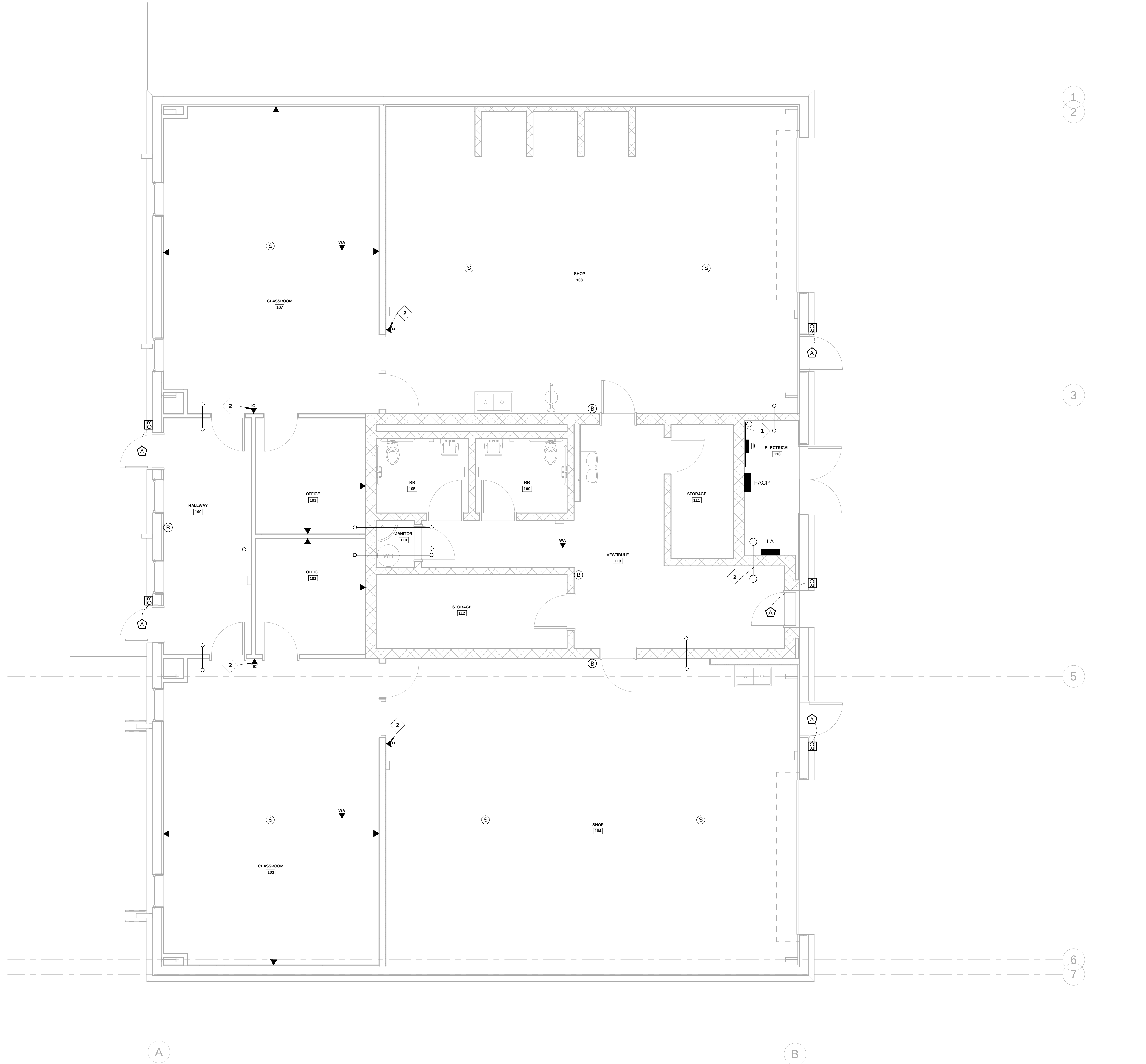
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KEYNOTES

- 1 PROVIDE TELEPHONE BACKBOARD 4'-8"x3/4"
FIRE RATED PLYWOOD PAINTED BOTH SIDES
WITH FLAT GRAY PAINT TURNED SHORT SIDE
PARALLEL WITH FLOOR MOUNTED AT 60° AFF.
- 2 PROVIDE 4" CONDUIT.

EXTEND EXISTING INTERCOM FROM NORTHMOST SIDE
OF EXISTING BUILDING INTERCOM SYSTEM. UTILIZE
CONDUIT FROM NEW UNDERGROUND COMMUNICATIONS
PATHWAY TO NEW BUILDING TO EXTEND INTERCOM.
ROUTE ABOVE ACCESSIBLE CEILING AS NEEDED FOR
NEW INTERCOM. SEE SHEET ES1.1 FOR UNDERGROUND
COMMUNICATIONS PATHWAY.

ALL DEVICES AND RACEWAY IN STORM SHELTER TO BE
SURFACE MOUNTED.



1 SYSTEMS PLAN
E4.1 1/4" = 1'-0"

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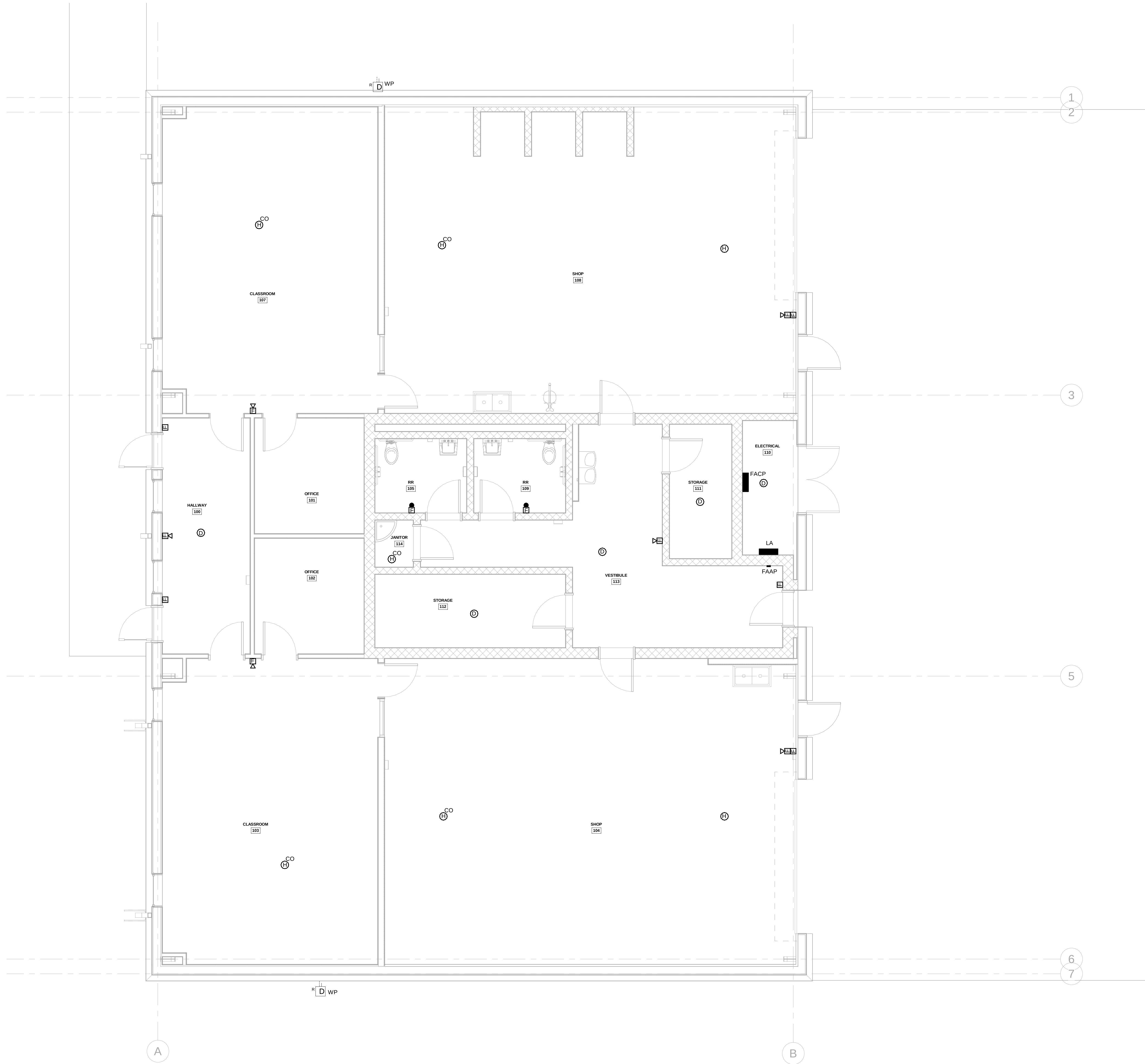
SYSTEMS PLAN

E4.1

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1
E5.1 FIRE ALARM PLAN
1/4" = 1'-0"

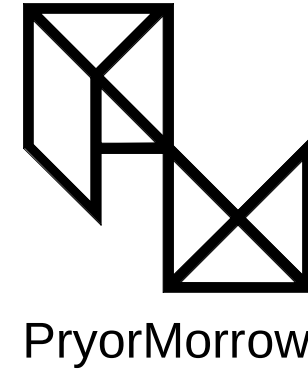


KEYNOTES

1
PLACEHOLDER TEXT.

ALL DEVICES AND RACEWAY IN STORM SHELTER TO BE SURFACE MOUNTED.

SEE DOOR ACCESS CONTROL DETAIL ON SHEET E0.2 FOR FIRE ALARM CONNECTION REQUIREMENTS TO ACCESS CONTROLLED DOORS.



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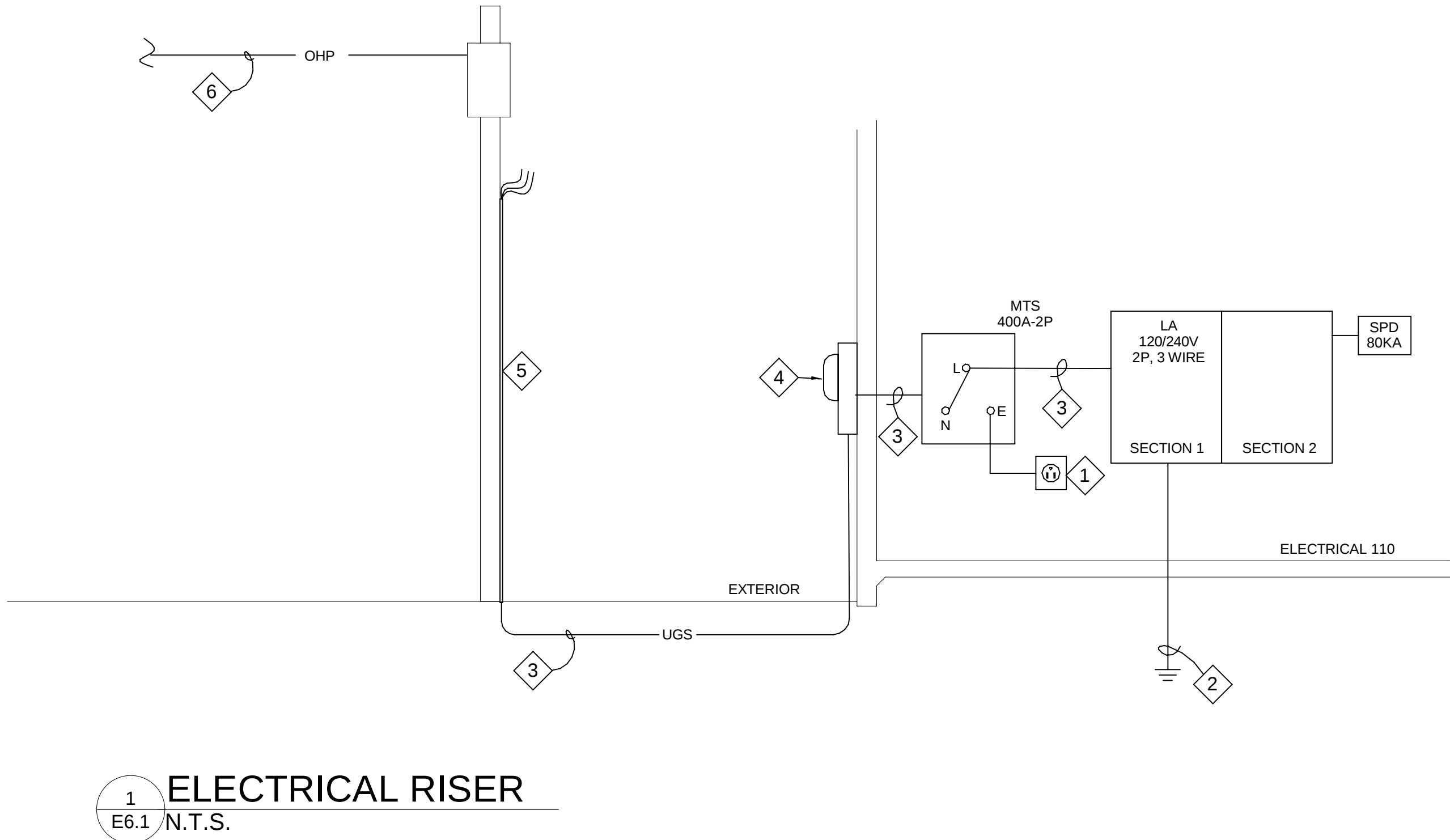
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FIRE ALARM PLAN

E5.1

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Branch Panel: LA													
Location: ELECTRICAL 110					OC Type: CIRCUIT BREAKER				Distribution System: 120/240V				
Device: BOLT ON					Enclosure: NEMA 1				A/C Rating: 18K				
Mounting: SURFACE					Comments:				Amperage: 400A				
CKT	Circuit Description	Wire Size	Trip	Poles	A		B		Poles	Trip	Wire Size	Circuit Description	CKT
1	Receptacle RR 109	3#12	20 A	1	540 VA	1560 VA			2	20 A	2#10, 1#10G	MSCU-1	2
3	Receptacle VESTIBULE 113	3#12	20 A	1			540 VA	1560 VA	--	--	--	--	4
5	Receptacle SHOP 104	3#12	20 A	1	720 VA	2246 VA			2	30 A	2#10, 1#10G	WH-1	6
7	Receptacle SHOP 108	3#12	20 A	1			540 VA	2246 VA	--	--	--	--	8
9	Receptacle SHOP 108	3#12	20 A	1	540 VA	4296 VA			2	60 A	2#6, 1#8G	ACU-1	10
11	Receptacle SHOP 108	3#12	20 A	1			720 VA	4296 VA	--	60 A	2#6, 1#8G	ACU-2	12
13	Receptacle CLASS 107	3#12	20 A	1	540 VA	4296 VA			2	60 A	2#6, 1#8G	ACU-2	14
15	Receptacle CLASS103	3#12	20 A	1			540 VA	4296 VA	--	--	--	--	16
17	Receptacle OFFICE 101	3#12	20 A	1	180 VA	3360 VA			2	60 A	2#6, 1#8G	AC-1	18
19	Receptacle OFFICE 102	3#12	20 A	1			720 VA	3360 VA	--	--	--	--	20
21	Receptacle EXT. EAST	3#12	20 A	1	540 VA	865 VA			2	20 A	2#12, 1#12G	EF-6	22
23	Receptacle CLASS 107	3#12	20 A	1			540 VA	865 VA	--	--	--	--	24
25	Receptacle EXT. WEST	3#12	20 A	1	540 VA	1192 VA			1	20 A	3#12	EF-5	26
27	Receptacle SHOP 104	3#12	20 A	1			720 VA	500 VA	1	20 A	3#12	EDF-1	28
29	Receptacle CLASS 103	3#12	20 A	1	540 VA	846 VA			1	20 A	3#12	GUH-1	30
31	Receptacle VESTIBULE 113	3#12	20 A	1			540 VA	846 VA	1	20 A	3#12	GUH-2	32
33	Receptacle Welder #1	2#8 1#10G	50 A	2	4750 VA	1192 VA			1	20 A	3#12	EF-4	34
35	--	--	--	--	--	--	4750 VA	500 VA	1	20 A	3#12	FACP	36
37	Receptacle Welder #2	2#8 1#10G	50 A	2	4750 VA	0 VA			1	20 A	--	Spare	38
39	--	--	--	--	--	--	4750 VA	0 VA	1	20 A	--	Spare	40
41	Receptacle Welder #3	2#8 1#10G	50 A	2	4750 VA	0 VA			1	20 A	--	Spare	42
43	--	--	--	--	--	--	4750 VA	0 VA	1	20 A	--	Spare	44
45	Receptacle SHOP 108	2#10, 1#10G	30 A	2	1920 VA	0 VA			1	20 A	--	Spare	46
47	--	--	--	--	--	--	1920 VA	0 VA	1	20 A	--	Spare	48
49	Receptacle SHOP 108	2#10, 1#10G	30 A	2	1920 VA	0 VA			1	20 A	--	Spare	50
51	--	--	--	--	--	--	1920 VA	0 VA	1	20 A	--	Spare	52
53	Receptacle SHOP 108	2#10, 1#10G	30 A	2	1920 VA	0 VA			1	20 A	--	Spare	54
55	--	--	--	--	--	--	1920 VA	0 VA	1	20 A	--	Spare	56
57	Receptacle SHOP 104	2#10, 1#10G	30 A	2	1920 VA	0 VA			1	20 A	--	Spare	58
59	--	--	--	--	--	--	1920 VA	0 VA	1	20 A	--	Spare	60
61	Receptacle SHOP 104	2#10, 1#10G	30 A	2	1920 VA	0 VA			1	20 A	--	Spare	62
63	--	--	--	--	--	--	1920 VA	0 VA	1	20 A	--	Spare	64
65	Receptacle SHOP 104	2#10, 1#10G	30 A	2	1920 VA	0 VA			1	20 A	--	Spare	66
67	--	--	--	--	--	--	1920 VA	0 VA	1	20 A	--	Spare	68
69	Receptacle SHOP 104	2#10, 1#10G	30 A	2	1920 VA	0 VA			1	20 A	--	Spare	70
71	--	--	--	--	--	--	1920 VA	--	1	--	--	Space	72
73	Lighting EXT.	3#12	20 A	1	793 VA	--			--	--	--	Space	74
75	Lighting Storm Shelter	3#12	20 A	1	--	--	313 VA	--	1	--	--	Space	76
77	Lighting Shop 108	3#12	20 A	1	1023 VA	--			--	--	--	Space	78
79	Lighting Classrooms	3#12	20 A	1	--	--	820 VA	--	1	--	--	Space	80
81	Lighting Shop 104	3#12	20 A	1	819 VA	0 VA			2	60 A	4#6	SPD	82
83	Spare		20 A	1			0 VA	0 VA	--	--	--	--	84
Total Load:					54300 VA		52153 VA						
Total Amps:					452 A		435 A						
Load Classification					Connected Load	Demand Factor	Estimated Demand	Panel Totals					
Lighting					3603 VA	85.00%	3063 VA						
Motor					37973 VA	80.00%	30378 VA	Total Conn. Load: 106452 VA					
Other					0 VA	0.00%	0 VA	Total Est. Demand: 65878 VA					
Receptacle					64860 VA	50.00%	32440 VA	Total Conn.: 444 A					
								Total Est. Demand: 274 A					
Notes:													
1. 400A MCB SQ. D I-LINE PANEL. COPPER BUS, SERVICE ENTRANCE RATED.													
2. MCB TO HAVE STD INSTANTANEOUS ADJUSTABLE TRIP SETTINGS.													
3. PANEL TO HAVE DOOR-IN-DOOR COVER WITH 2 LATCHES/LOCKS PER DOOR													
4. PROVIDE FEED-THRU LUGS FOR 2 SECTION PANEL													



1 ELECTRICAL RISER
E6.1 N.T.S.

KEYNOTES

- 1 PROVIDE WCR 6-50P WITH NEMA 1 ENCLOSURE.
- 2 GROUNDING ELECTRODE CONDUCTOR (GEC). SEE GROUNDING DETAIL ON SHEET E0.2.
- 3 400A FEEDER: 2#600KCMIL, 1#600KCMIL NEUTRAL IN 4" CONDUIT.
- 4 PROVIDE METERING AS REQUIRED BY TIPPAH ELECTRIC POWER ASSOCIATION (TEPA).
- 5 RISE UP POLE AS DIRECTED BY TEPA.
- 6 OVERHEAD PRIMARY (OHP) BY TEPA.

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RISER DIAGRAM AND
PANEL SCHEDULES

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