

NEW FACILITY

RANDOLPH COUNTY HEALTH UNIT

CAMP ROAD - POCAHONTAS, ARKANSAS 72455

PROJECT NO. 190807
 DATE: 10-26-20
 DRAWN BY: MS
 REVISION:
 DATE:
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MSA
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 POCAHONTAS, ARKANSAS 72455



ABBREVIATIONS

above finish floor slab	a.f.f.	general contractor	g.c.
actual	act.	horizontal	horiz.
aluminum	alum.	height	ht.
approximate	approx.	inch	in.
bottom	bot.	insulation	insul.
building	bdg.	joint	jt.
ceiling	clg.	lavatory	lav.
center	ctr.	maximum	max.
clear	clr.	mechanical	mech.
continuous	cont.	metal building manufacturer	mbm
diameter	dia.	metal threshold	m.t.
dimension	dim	minimum	min.
drawing	dwg.	mounted	mtd.
each	ea.	mounting	mtg.
electrical	elec.	nominal	nom.
electric water cooler	e.w.c.	not in contract	n.i.c.
elevation	elev.	not to scale	n.t.s.
equal	eq.	on center	o.c.
existing	exist.	pre-engineered metal building	pemb
face of block	f.o.bl.	required	req'd.
face of brick	f.o.br.	schedule	sched.
face of stud	f.o.s.	similar	sim.
finish	fin.	stainless steel	s.s.
fire extinguisher	f.e.	suspended	susp.
fire extinguisher cabinet	f.e.c.	typical	typ.
floor	flr.	unless noted otherwise	u.n.o.
floor drain	fd	vertical	vert.
gage, gauge	ga.	with	w/

MATERIALS

BATT INSULATION		GYPSUM BOARD	
COMPACT FILL		METAL AND WOOD STUDS	
CONCRETE		PLYWOOD	
CONCRETE MASONRY UNIT		RIGID INSULATION	
DRAINABLE / POROUS FILL		STEEL	
FINISH WOOD		WOOD FRAMING OR BLOCKING	
GRAVEL FILL			

ARCHITECT'S CONSULTANTS

CIVIL ENGINEER DE CLERK - THROESCH ENGINEERING 114 W. PYBURN STREET POCAHONTAS, ARKANSAS 72455 TEL: (870) 892-9412	STRUCTURAL ENGINEER FOWLER ENGINEERING, LLC 1989 OAK TREE COVE, SUITE B HERNANDO, MS 38632 TEL: (662) 469-9571
MECHANICAL ENGINEER HALTOM ENGINEERING, LLC 496 MULBERRY STREET MEMPHIS, TENNESSEE 38103 TEL: 901-575-2354	ELECTRICAL ENGINEER SCOTT HENDREN, PE, LC 6544 CHASE ROAD MILLINGTON, TENNESSEE 38053 TEL 901-299-8936
CLIENT INFORMATION	
RANDOLPH COUNTY 107 WEST BROADWAY POCAHONTAS, AR 72455 CONTACT: JUDGE DAVID JANSEN	

CODE DATA

PROJECT DESCRIPTION:	A NEW OFFICE BUILDING WITH TWO LEASABLE SPACES.
OCCUPANCY CLASSIFICATION	B - BUSINESS
TYPE OF CONSTRUCTION	TYPE V-B - UNSPRINKLERED
GENERAL ALLOWABLE AREA	9,000 SQ. FT. PER FLOOR
AREA	
FOOTPRINT	4,537 SQ. FT.
CODE-DEFINED	4,217 SQ. FT.
GENERAL ALLOWABLE HEIGHT / NO. OF STORIES	
B - BUSINESS	40 FEET / 2 STORIES
PROPOSED HEIGHT / NO. OF STORIES	18.5 FEET / 1 STORY
INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR B OCCUPANCY - NONSPRINKLERED (see note k)	
INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS (see notes a and b)	CLASS "A"
CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS	CLASS "B"
ROOMS AND ENCLOSED SPACES (see note c)	CLASS "C"
a. Class C interior finish materials shall be permitted for wainscoting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over furring strips applied to a noncombustible base and fireblocked as required by Section 803.4.1.	
b. In exit enclosures of buildings less than three stories in height of other than Group I-3, Class B interior finish for nonsprinklered buildings and Class C interior finish for sprinklered buildings shall be permitted.	
c. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the ceiling. Partitions that do not comply with this shall be considered enclosing spaces and the rooms or spaces on both sides shall be considered one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy thereof shall be the governing factor regardless of the group classification of the building or structure.	
d. - j: not applicable.	
k. Finish materials as provided for in other sections of this code.	
l: not applicable	
CLASS "A" = Flame Spread Index of 0-25; smoked -developed Index 0-450. CLASS "B" = Flame Spread Index of 26-75; smoked -developed Index 0-450. CLASS "C" = Flame Spread Index of 76-200; smoked -developed Index 0-450.	
FIRE PROTECTION SYSTEMS	
AUTOMATIC SPRINKLER SYSTEM:	NOT REQUIRED
PORTABLE FIRE EXTINGUISHERS: PROVIDE AS REQUIRED BY THE ADOPTED INTERNATIONAL FIRE CODE - SEE FLOOR PLAN.	
MANUAL FIRE ALARM SYSTEM:	NOT REQUIRED
CALCULATED OCCUPANT LOAD	
4,217 GSF / 100 GSF PER OCCUPANT = 42.17	43 OCCUPANTS
EXIT WIDTH REQUIREMENTS	
TABULATED EXIT WIDTH REQUIRED (43 OCCUPANTS x .20 INCHES / OCCUPANT)	8.6 INCHES
EXIT WIDTH PROVIDED	
MAIN ENTRY	67 INCHES
SECONDARY EXITS	33.5 INCHES EACH
NO. OF EXITS REQUIRED / NO. OF EXITS PROVIDED	
TOTAL BUILDING	2 REQUIRED / 3 PROVIDED
MIN. NO. OF PLUMBING FIXTURES FOR MEN AND WOMEN EACH TENANT	
WATER CLOSETS: (43 PEOPLE x 50%) x 1/25 = 0.86	1 FOR BOTH MALES AND FEMALES / 2
LAVATORIES: (43 PEOPLE x 50%) x 1/40 = 0.5375	1 FOR BOTH MALES AND FEMALES / 2
DRINKING FOUNTAIN: 1 PER 100	1 / 1 HI-LO UNIT
SERVICE SINK	1 / 1

CERTIFICATION

I hereby certify that these plans and specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these plans and specifications are as required by law and in compliance with the Arkansas Fire Prevention code for the State of Arkansas.

MATT SILAS, ARCHITECT

Matt C. Silas, AIA

TESTING AND INSPECTIONS

General Testing: The owner or the owner's contractor shall be responsible for general testing, soil testing, and concrete testing. The owner shall provide reports of such testing to the architect and to the building authority as required.

Architect's Inspections
 The Architect shall provide inspection services during construction as required by code and shall issue a letter to the local authority stating compliance or non-compliance with construction documents if required.

Special Inspections per AFPC, Chapter 17, Section 1704.2.
 Special Inspections are not required per exception 3.

INDEX TO DRAWINGS

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A-1.2 ----- KEY FLOOR PLAN		ELECTRICAL
A-1.3 ----- LIFE SAFETY FLOOR PLAN		E-0.1 ----- ELECTRICAL LEGEND, DIAGRAMS, DETAILS AND SCHEDULES
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M-2.3 ----- COMCHECK		
M-2.4 ----- HOOD DETAILS		

ARKANSAS APPLICABLE CODES

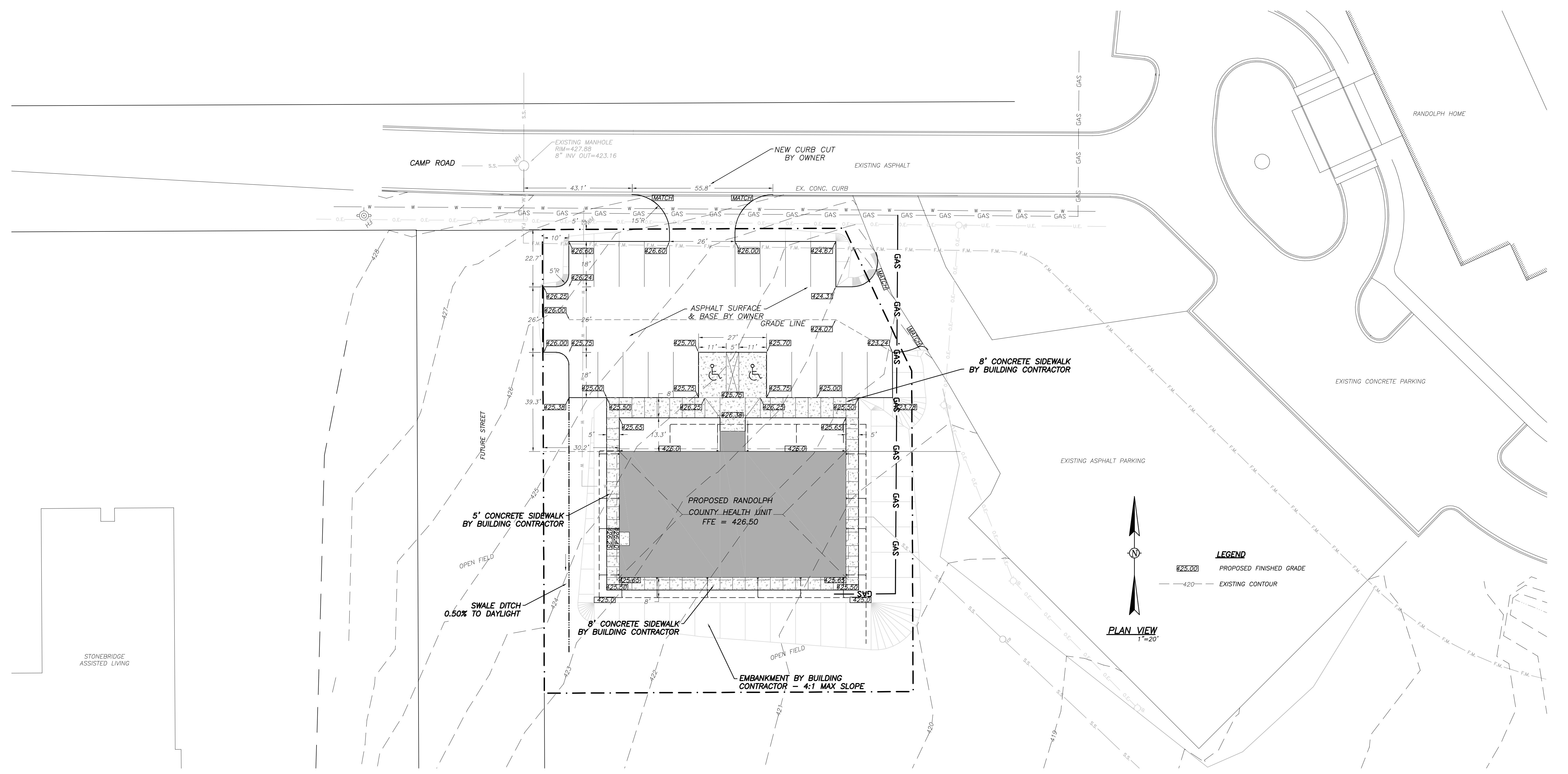
TYPE OF CODE	STATE CODE	TECHNICAL BASIS	APPLICABILITY
BUILDING	2012 AFPC VOLUME II	2012 IBC WITH STATE SUPPLEMENT	ALL BUILDINGS
MECHANICAL	2012 ARKANSAS MECHANICAL CODE	ADOPTED IMC WITH STATE AMENDMENTS	ALL BUILDINGS
PLUMBING	2006 ARKANSAS STATE PLUMBING CODE	2006 IPC WITH STATE AMENDMENTS	ALL BUILDINGS
ELECTRICAL	2017 NEC	2017 NEC	ALL BUILDINGS
ENERGY	2014 ARKANSAS ENERGY CODE FOR NEW BUILDING CONSTRUCTION	2009 IECC WITH STATE AMENDMENTS ASHRAE STD. 90.1-2007	LOW-RISE RESIDENTIAL BUILDINGS COMMERCIAL AND HIGH-RISE RESIDENTIAL BUILDINGS
GAS	2006 ARKANSAS FUEL AND GAS CODE		ALL BUILDINGS
FIRE PREVENTION	2012 ARKANSAS FIRE PREVENTION CODE	2012 IFC WITH STATE SUPPLEMENT	ALL BUILDINGS
LIFE SAFETY	2012 AFPC VOLUME I NFPA 101, 2003 ED.	2012 IFC WITH STATE SUPPLEMENT	ALL BUILDINGS ALL BUILDINGS
ACCESSIBILITY	2012 AFPC VOLUME II	2012 IBC WITH STATE SUPPLEMENT	ALL BUILDINGS

FEDERAL APPLICABLE CODES

ACCESSIBILITY	CODE OF FEDERAL REGULATIONS	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	ALL BUILDINGS
ACCESSIBILITY	AMERICAN NATIONAL STANDARD- ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	ICC / ANSI A117.1-2003	ALL BUILDINGS

COVER SHEET & CODE DATA

SET NO.

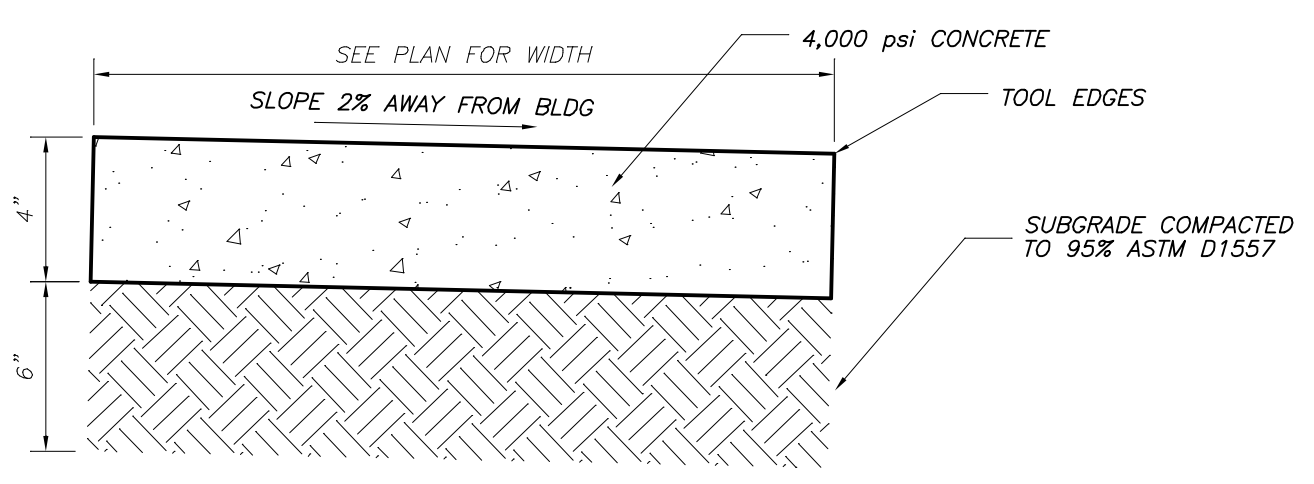


GENERAL NOTES:
 1. AREAS TO RECEIVE FILL, PAVING, AND AREAS UNDER PROPOSED BUILDINGS SHALL BE STRIPPED TO A SUFFICIENT DEPTH TO REMOVE TOP SOIL AND VEGETATION. SUITABLE STRIPPED MATERIAL SHALL BE PLACED ON SLOPES. EXCESS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE.
 2. ANY SOFT OR YIELDING AREAS SHALL BE UNDERCUT AND FILLED WITH IMPORTED EMBANKMENT.
 3. EMBANKMENT SHALL CONSIST OF A NON-EXPANSIVE TYPE SOIL WITH A PLASTICITY INDEX LESS THAN 20. CONTRACTOR SHALL SUBMIT TEST RESULTS FROM A QUALIFIED SOIL TESTING LAB FOR APPROVAL PRIOR TO PLACING MATERIAL.
 4. SUBGRADE AND EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR.
 5. UNLESS NOTED OTHERWISE, GRADES SHALL BE INTERPOLATED AS A STRAIGHT LINE BETWEEN FINISHED GRADES SHOWN ON THE PLANS.

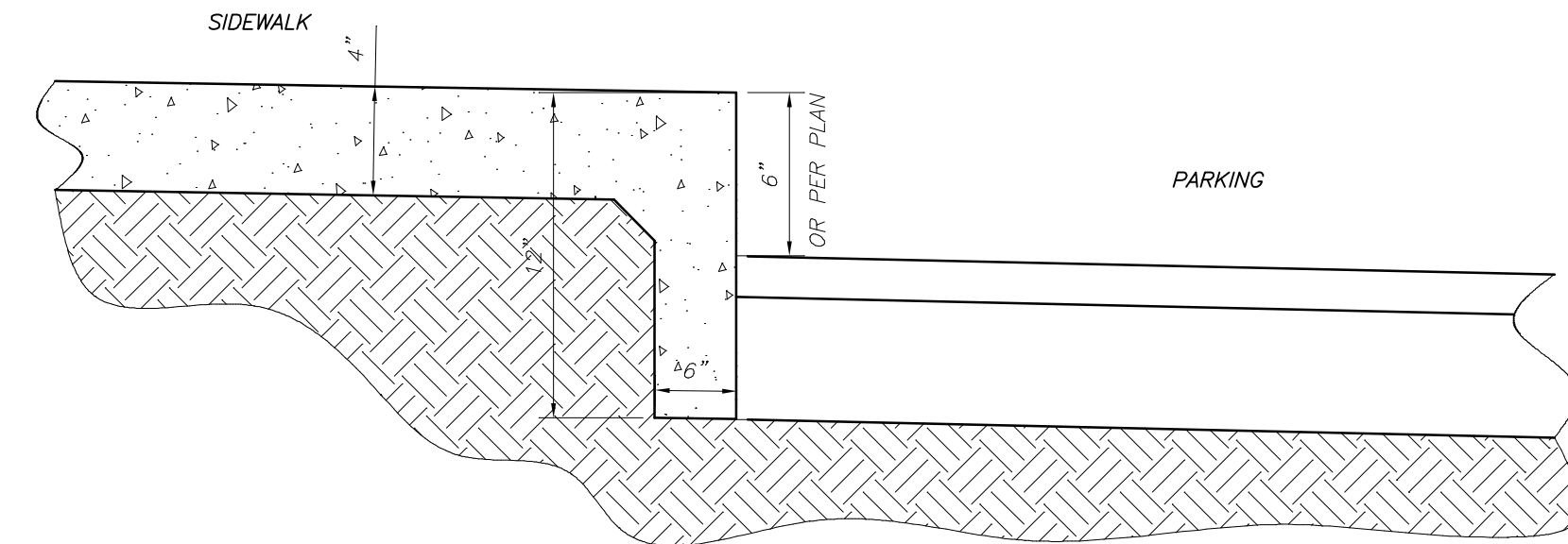
WALK & DRIVE NOTES:
 1. CONCRETE FOR SIDEWALKS, DRIVES, AND PARKING SHALL BE 4,000 psi MIX WITH FIBER REINFORCEMENT.
 2. MAXIMUM SLUMP SHALL BE 4 INCHES.
 3. SIDEWALK CRACK CONTROL JOINTS SHALL BE PLACED AT INTERVALS EQUAL TO SIDEWALK WIDTH. EXPANSION JOINT SPACING SHALL NOT EXCEED 40 FEET AND SHALL BE EVENLY SPACED.
 4. DRIVE AND PARKING CRACK CONTROL JOINT SPACING SHALL NOT EXCEED 12 FEET AND SHALL BE SAWS IMMEDIATELY AFTER CONCRETE WILL SUPPORT EQUIPMENT. EXPANSION JOINT SPACING SHALL NOT EXCEED 50 FEET.
 5. CURB CRACK CONTROL JOINTS SHALL BE PLACED AT 10 FOOT INTERVALS. EXPANSION JOINTS SPACING SHALL NOT EXCEED 50 FEET.
 6. SUBGRADE FOR ALL CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR.
 7. CONCRETE SHALL HAVE A LIGHT BROOM FINISH.
 8. CRACK CONTROL JOINTS SHALL BE SAWS OR TOOLED TO A DEPTH OF 1/3 OF THE CONCRETE THICKNESS.



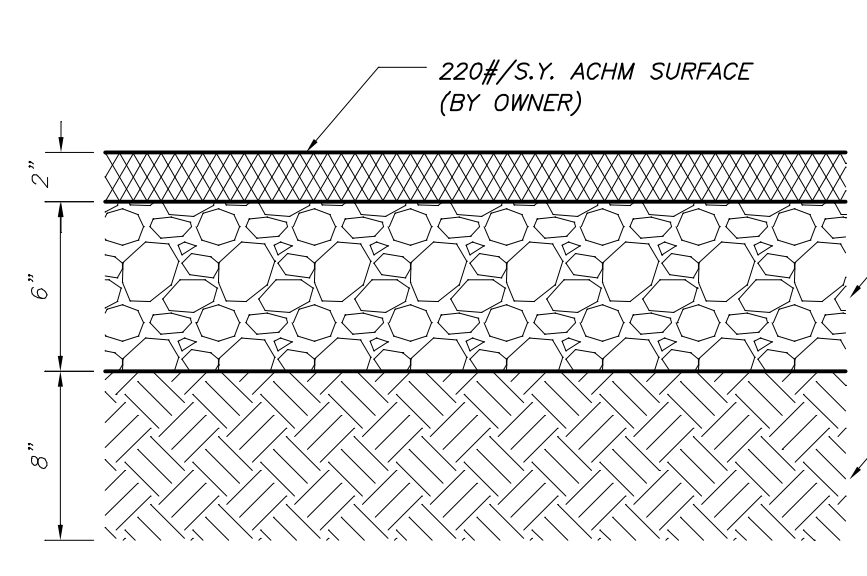
SWALE DITCH DETAIL



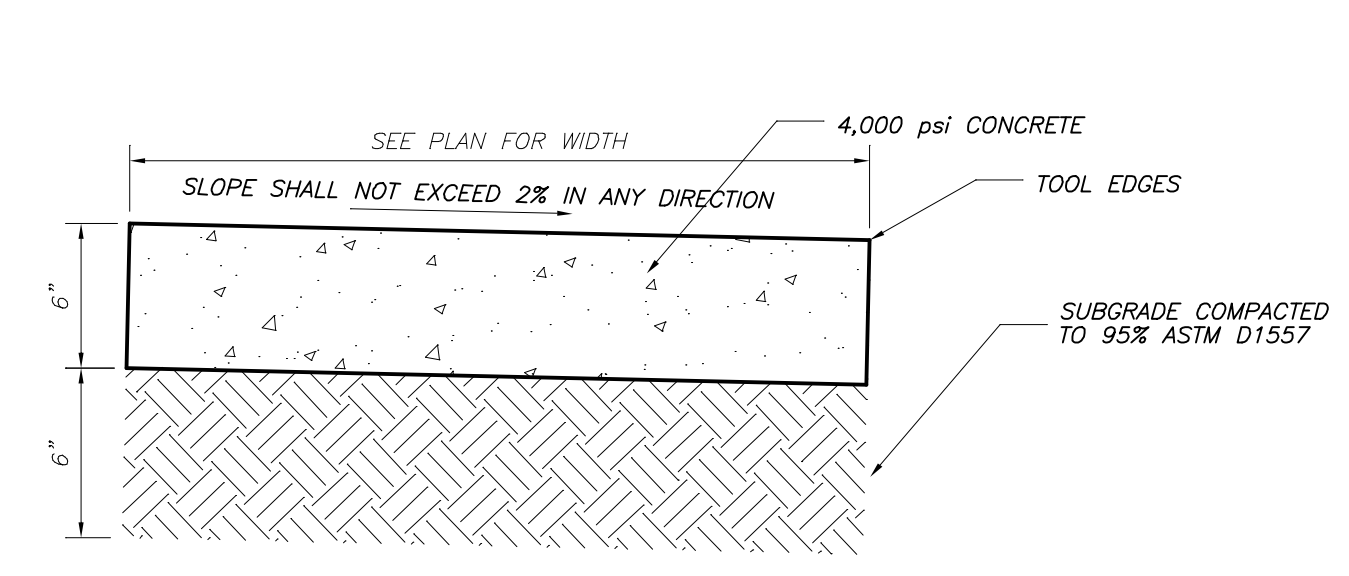
SIDEWALK DETAIL



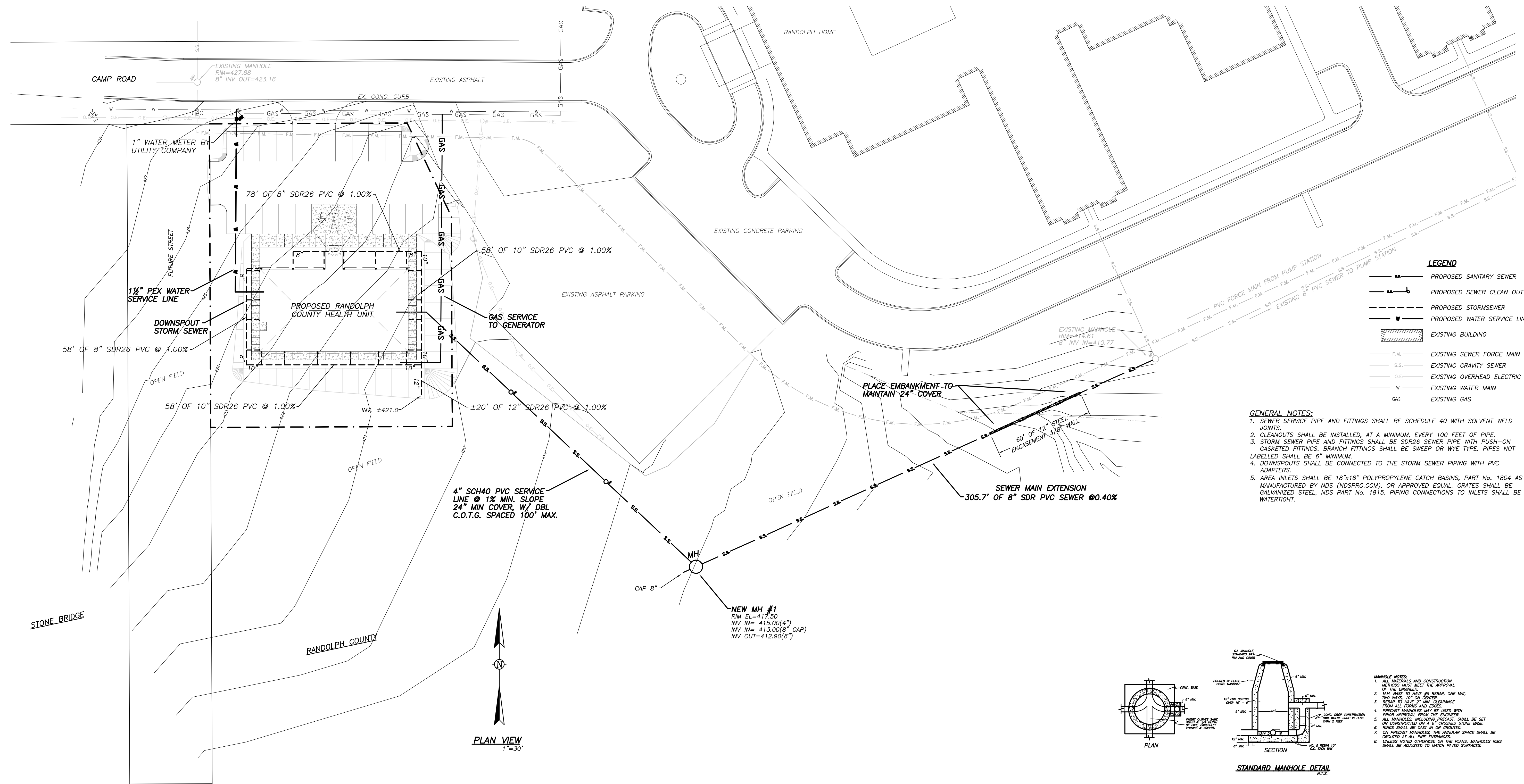
SIDEWALK AT PARKING DETAIL
 NOT TO SCALE



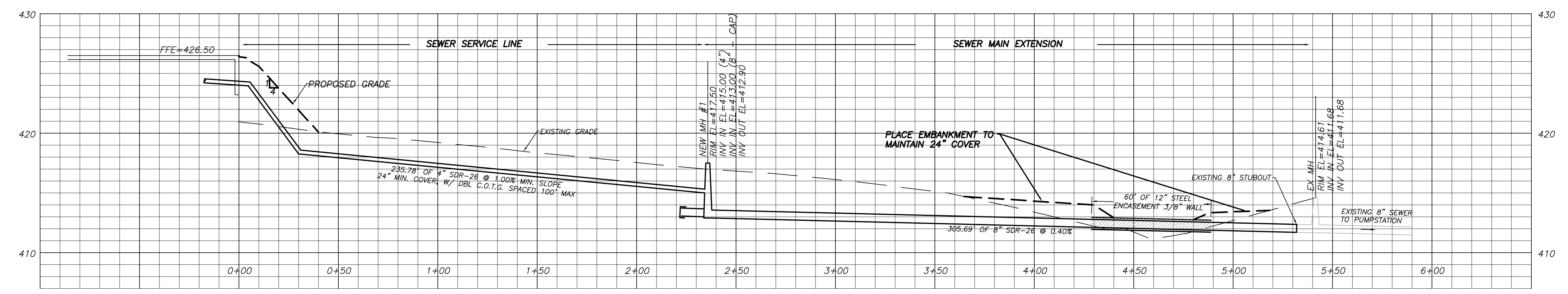
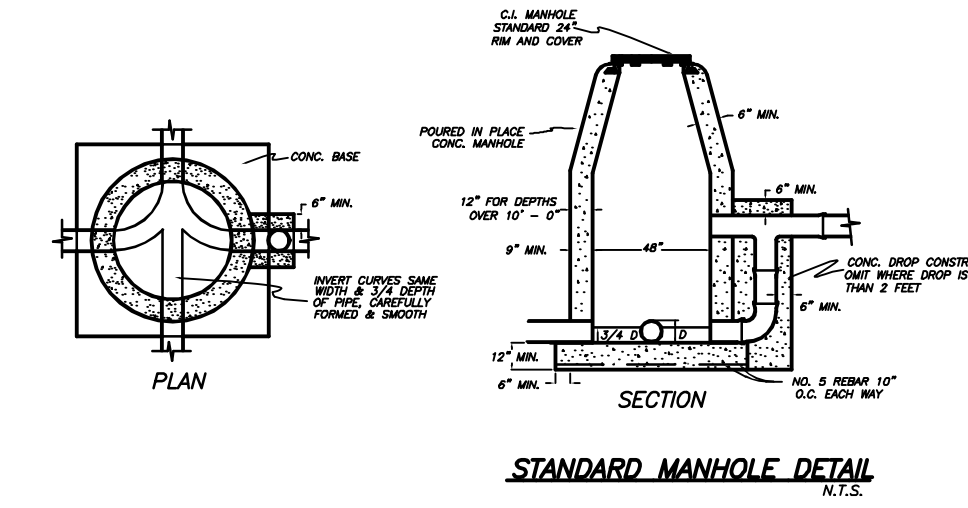
ASPHALT PAVING SECTION

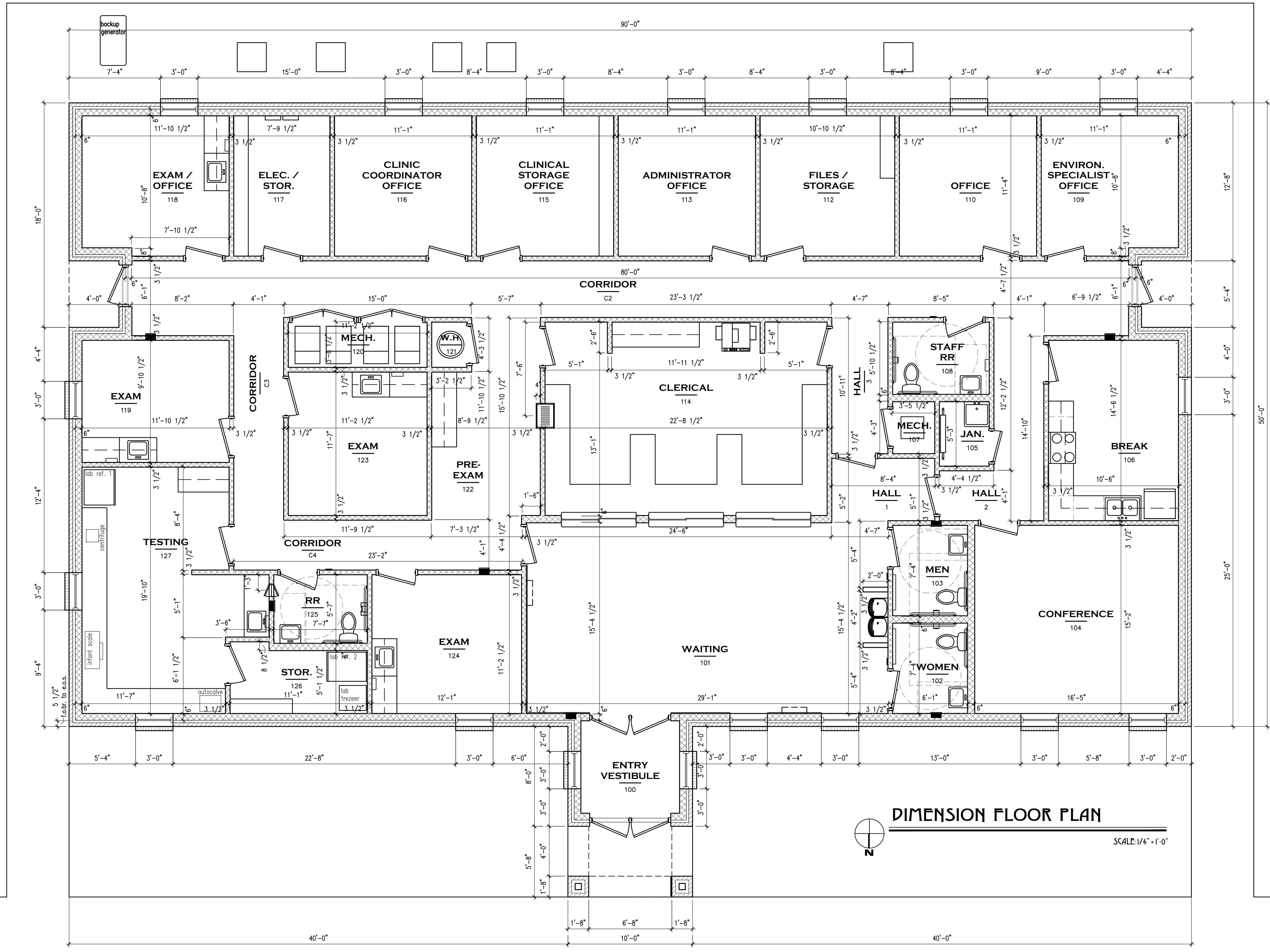


ADA PARKING SECTION



- LEGEND**
- PROPOSED SANITARY SEWER
 - PROPOSED SEWER CLEAN OUT
 - PROPOSED STORMSEWER
 - PROPOSED WATER SERVICE LINE
 - ▨ EXISTING BUILDING
 - F.M. EXISTING SEWER FORCE MAIN
 - S.S. EXISTING GRAVITY SEWER
 - O.E. EXISTING OVERHEAD ELECTRIC
 - W EXISTING WATER MAIN
 - GAS EXISTING GAS
- GENERAL NOTES:**
1. SEWER SERVICE PIPE AND FITTINGS SHALL BE SCHEDULE 40 WITH SOLVENT WELD JOINTS.
 2. CLEANOUTS SHALL BE INSTALLED, AT A MINIMUM, EVERY 100 FEET OF PIPE.
 3. STORM SEWER PIPE AND FITTINGS SHALL BE SDR26 SEWER PIPE WITH PUSH-ON GASKETED FITTINGS. BRANCH FITTINGS SHALL BE SWEEP OR WYE TYPE. PIPES NOT LABELLED SHALL BE 6" MINIMUM.
 4. DOWNSPOUTS SHALL BE CONNECTED TO THE STORM SEWER PIPING WITH PVC ADAPTERS.
 5. AREA INLETS SHALL BE 18"x18" POLYPROPYLENE CATCH BASINS, PART No. 1804 AS MANUFACTURED BY NDS (NDSPRO.COM), OR APPROVED EQUAL. GRATES SHALL BE GALVANIZED STEEL, NDS PART No. 1815. PIPING CONNECTIONS TO INLETS SHALL BE WATERTIGHT.





GENERAL NOTES

DIMENSIONING
 Metal stud wall dimensions are from face-of-stud to face-of-stud unless noted otherwise. Dimensions to fixtures and toilet partitions are from finish wall dimension. Refer to enlarged plans on for additional dimensioning.

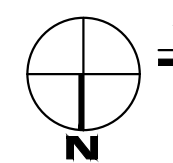
STUD WALLS
 Top of stud walls to be at bottom of trusses. Attach / brace interior walls to trusses.

DOOR AND WINDOW OPENINGS
 Contractor shall obtain rough opening dimensions from manufacturer.

AREAS

Building Footprint:	4,537 sf
Code-defined:	4,217 sf
Covered Entry:	56 sf

DIMENSION FLOOR PLAN



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

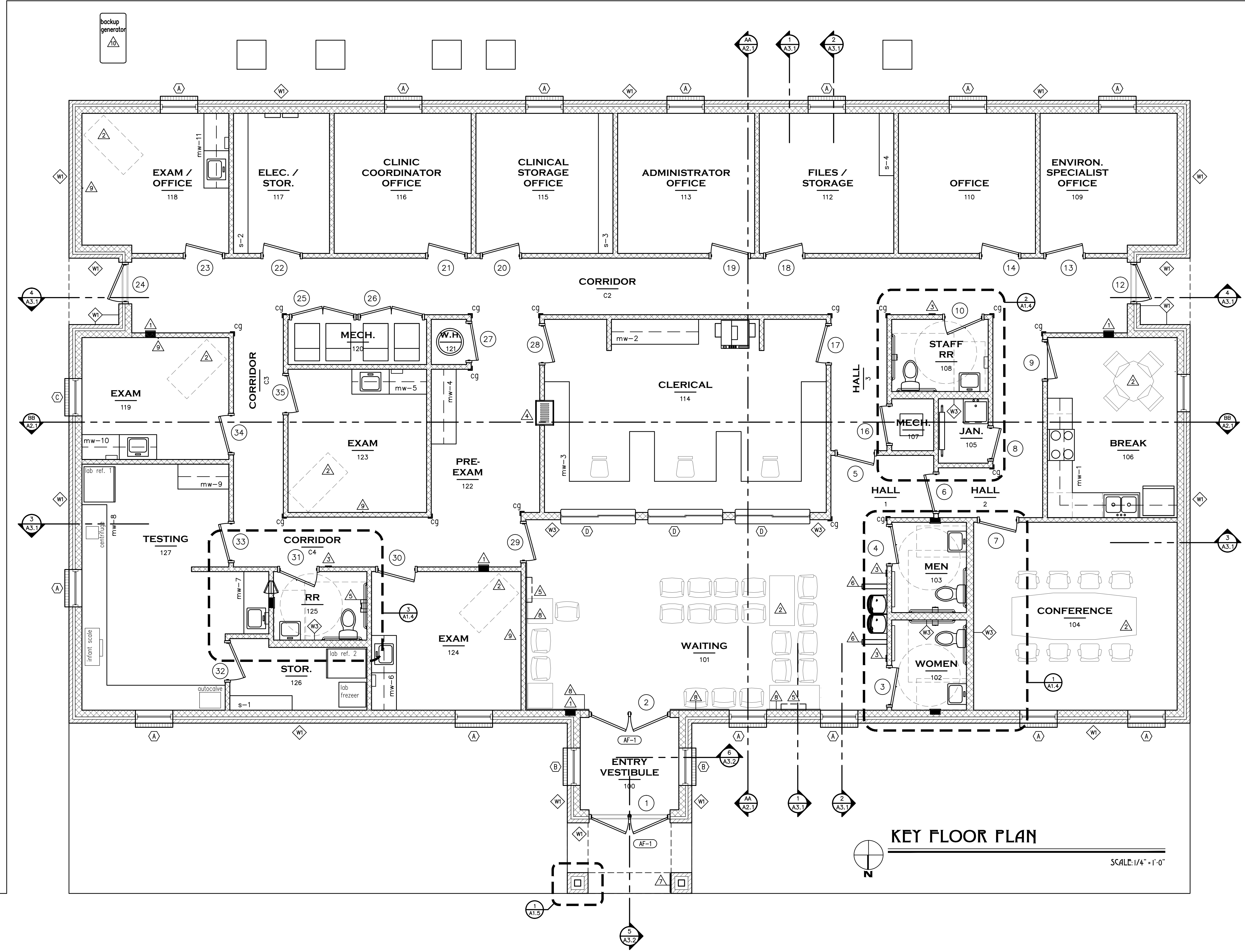


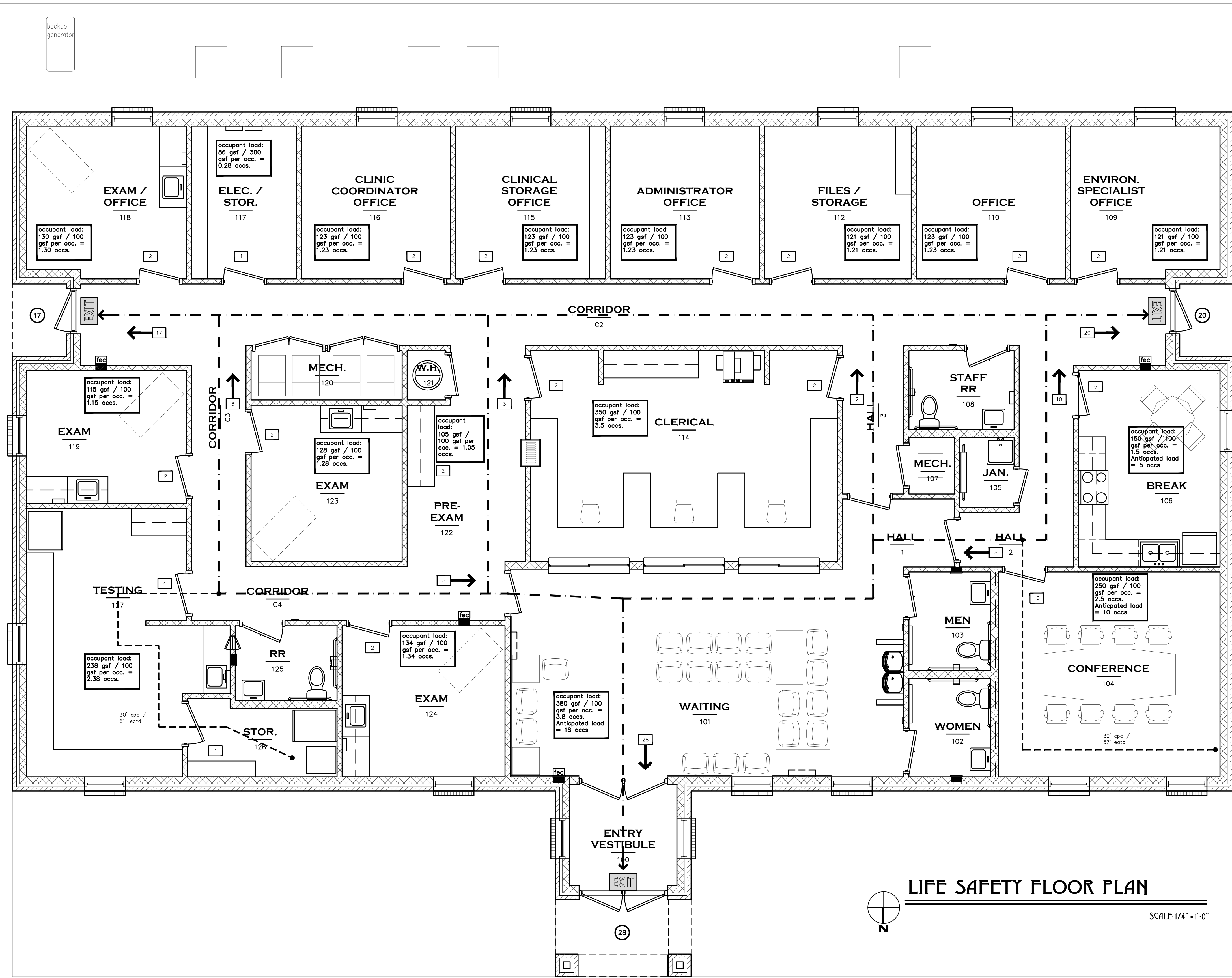
KEYNOTES

- Fire Extinguisher / Cabinet Location**
 1. Typical Locations:
 1.1. Extinguisher: Class A:B:C: size 10 with red baked enamel finish.
- Furnishings**
 Furnishings, table and platform indicated on drawings are the responsibility of the owner and not in the contract.
- Room Sign**
 Mounting Height: Tactile characters, measured from baseline of characters, shall be 48" min. above finish floor and 60" max. above finish floor measured from the baseline of the highest tactile character. Mounting Location: Alongside the door at the latch side. Signs containing tactile characters shall be located so that a clear floor space of 18 inches min. x 18" min., centered on the tactile characters is provided beyond the arc of any door swing between the closed position and 45 degree open position.
 Provide room signs where indicated on opening schedule.
- Custom File Pass-Thru**
 Provide custom pass-thru box as follows:
 - 3/4" plastic laminate panels at top, bottom, sides dividers and door panels.
 - (1), 3/4" thick x 8" wide x 10-1/2" high dividers spaced 1-3/4" apart.
 - 3/4" door panel each side with (2) concealed hinges and a wire pull each door panel.
- Air Germicidal UV Light Fixture**
 - Manufacturer: UV Light Solutions
 - Series: Wall-mount Upper Air Germicidal UV Light for Occupied Spaces (TB)
 - Mounting: Wall mounted at 90° a.f.f.
 - Size: 24 inch model at Waiting-101.
 - Size: 12 inch model at Restroom - 125.
 Install included small sign centered and below fixture.
- Low Wall**
 Height: 40 inches a.f.f.
 Cap top of wall with 1 x 6, painted pine, Grade D select.
- Plaque Location** - See Specification Manual.
- Wall Guard Rub Rail (equal to):**
 Product Supplier / Manufacturer: wallguard.com
 Product No.: 2404.1
 Size: 6" high x 96" L x .040" thick
 Color: Selected from 70 standard colors.
 Mounting: Provide pre-taped product.
 Mounting Height: Top to be 36" a.f.f. - confirm owner's chair style prior to installation.
- Hat / Coat Hook - Surface - mounted:**
 Same as item "g" on toilet accessories.
 Provide 1 device in each exam room where indicated on plan. Mount top of device 48" a.f.f.
- Backup Generator:**
 Relocation of generator from existing facility shall be part of the contractor's scope of work. Generator, transfer switch and associated components shall be relocated to new facility unless components are specified to be new. The location of the existing generator is as follows:
 Randolph County Health Unit
 1304 Pace Road
 Pocahontas, AR 72455

SYMBOLS

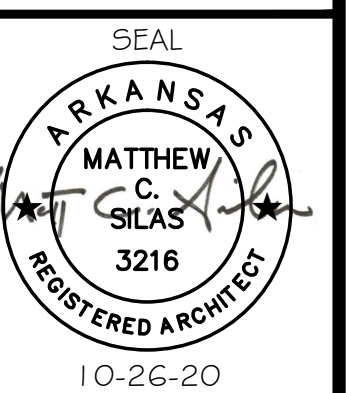
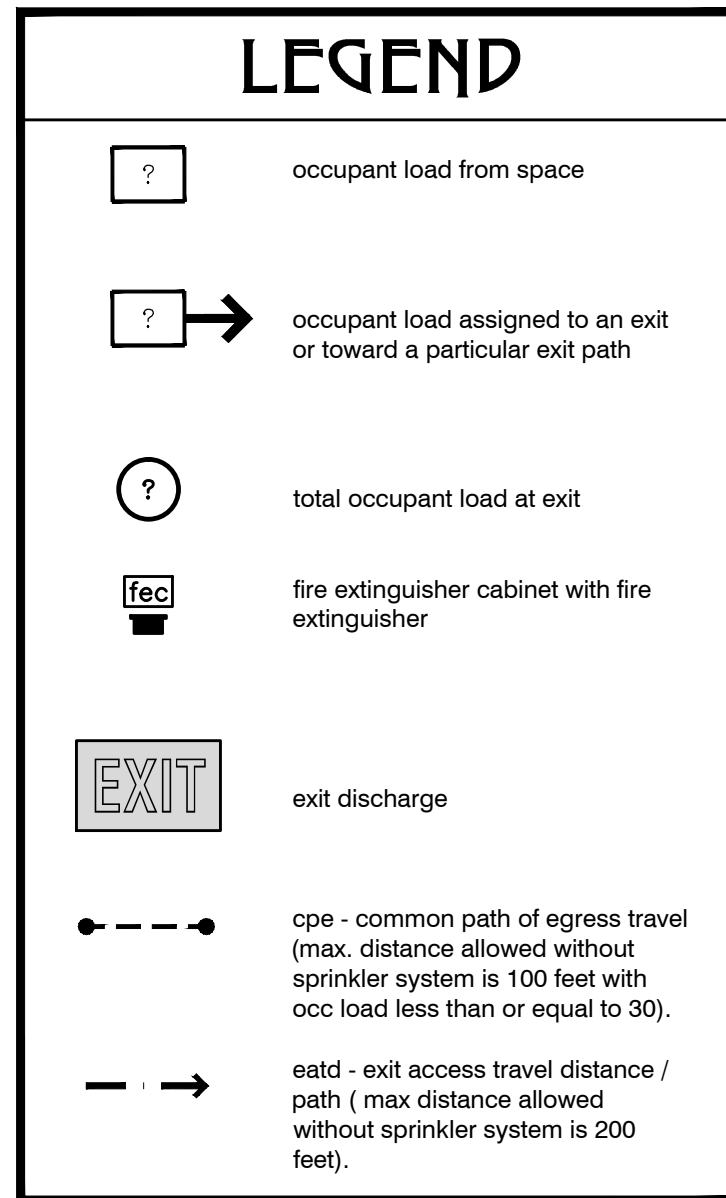
- (?) door mark - see sheet A-4.1
- (T) frame mark - see sheet A-4.1
- (?) toilet accessory mark - see sheet A-1.4
- (WP) wall type mark - see sheet A-1.5 - walls not indicated on plan are W2.
- mw-? millwork mark - see sheets A-7.1
- s-? shelving mark - see sheet A-7.1
- cg corner guard
- f.e.c. fire extinguisher cabinet
- (A) keynote this sheet.
- (?) detail number
- (A?) sheet number

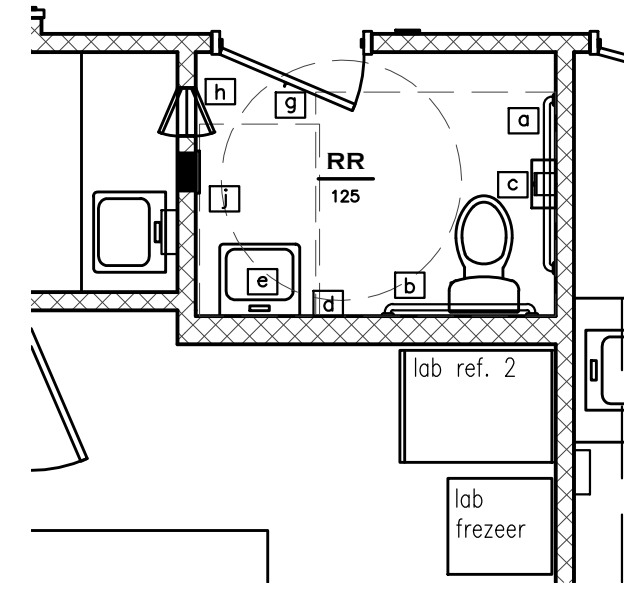
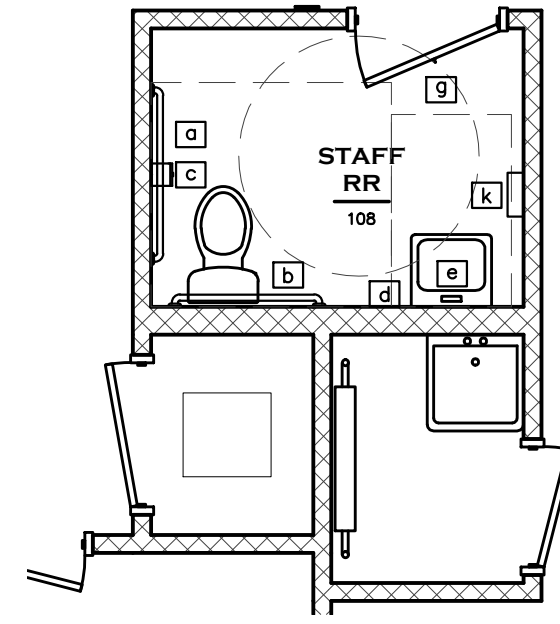
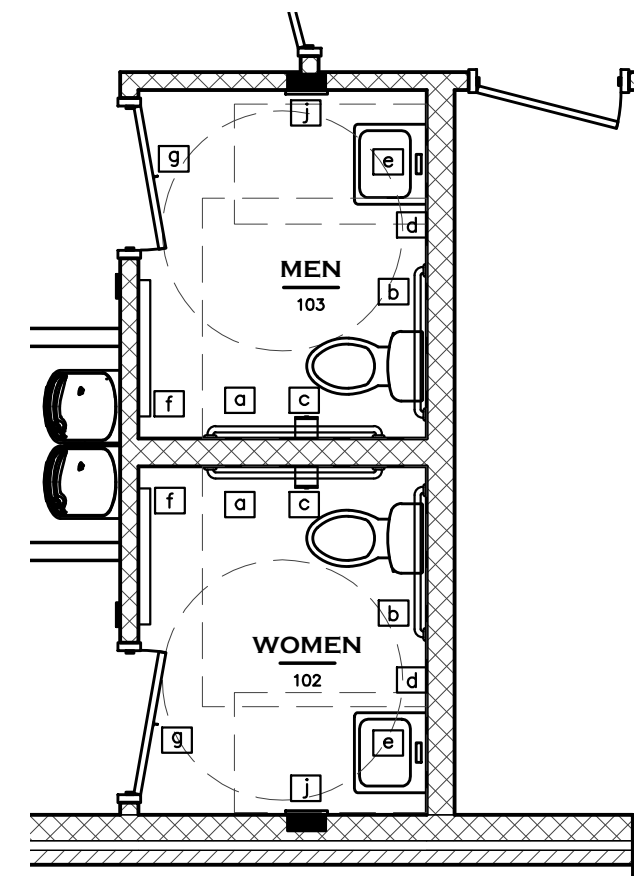




- ### NOTES
1. Refer to cover sheet for complete code analysis.
 2. Automatic sprinkler system not required and not provided.
 3. Fire alarm system not required and not provided.
 4. Occupant load calculations indicated on life safety plan are rounded up and used to indicate exit assignments. Some spaces will be occupied by the same users at different times.
 5. Occupant Load Assigned to Each Corridor:

5.1. Corridor C2:	16
5.2. Corridor C3 / C4:	10
5.3. Hall 1:	5
5.4. Hall 2:	15
5.5. Hall 3:	2





TOILET ACCESSORIES SCHEDULE

ITEM NMBR.	ITEM	MANUFACTURER/ MODEL NO.
a	grab bar - 42"	bradley / #832-001-42
b	grab bar - 36"	bradley / #832-001-36
c	toilet paper disp.	bradley / #5402
d	soap dispenser	provided by owner
e	mirror	bradley / #782-2442
f	baby changing station	bradley / #9631
g	coat hook	bobrick / #B-6827
h	specimen pass-thru cabinet	bradley / #9813
i	hand dryer - recessed	palmer eco storm / #HD0945-09
k	paper towel disp.	bradley / #250-15

NOTES:

- All toilet accessories must comply and be mounted in accordance with all accessibility standards where applicable.
- Provide solid blocking as required inside wall for accessories.

1 ENLARGED TOILET ROOM PLAN

SCALE: 3/8" = 1'-0"

2 ENLARGED TOILET ROOM PLAN

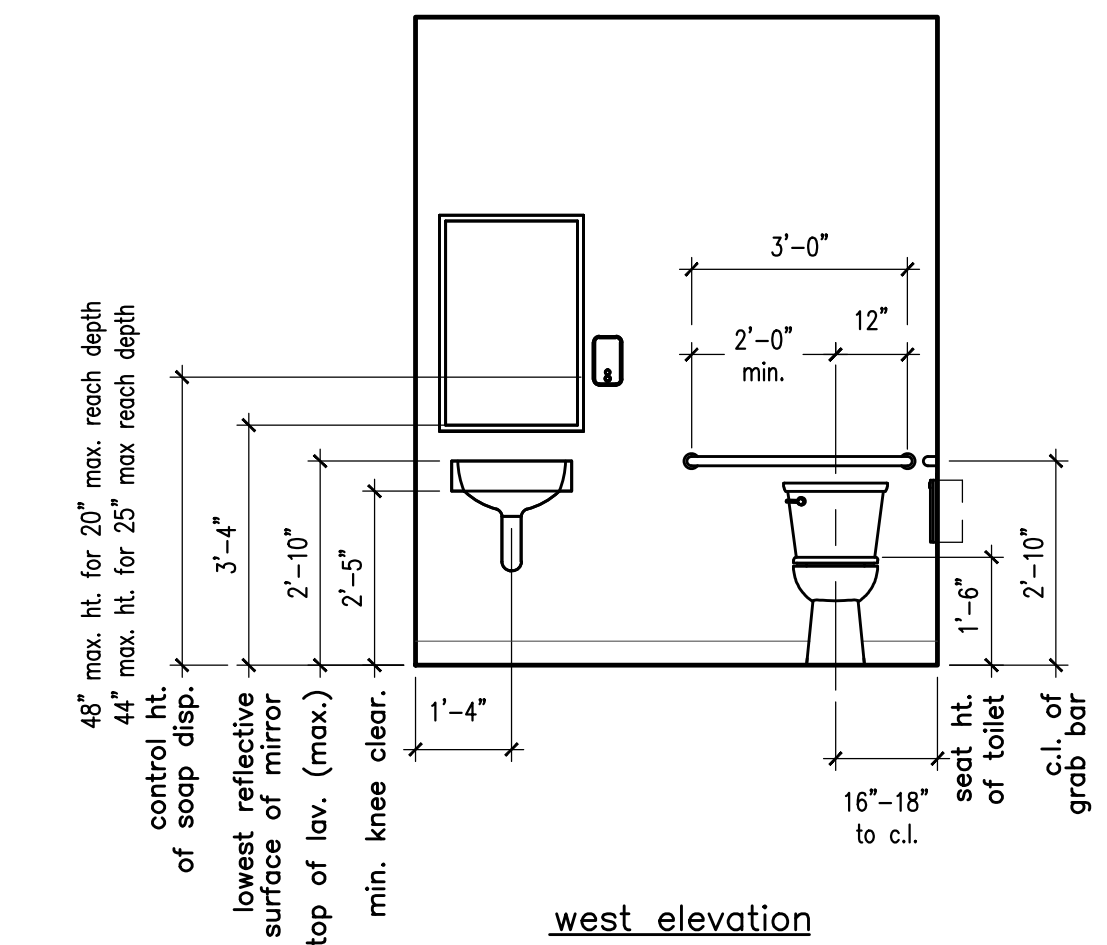
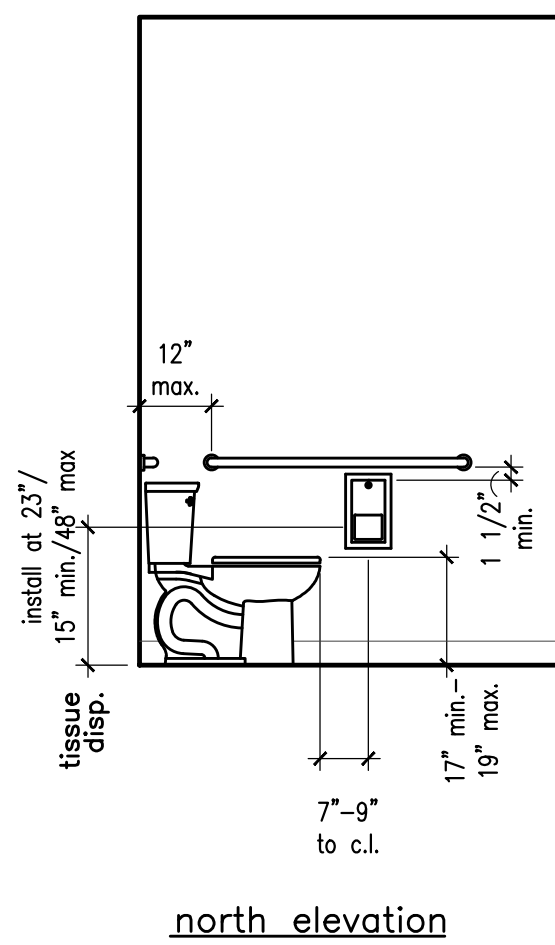
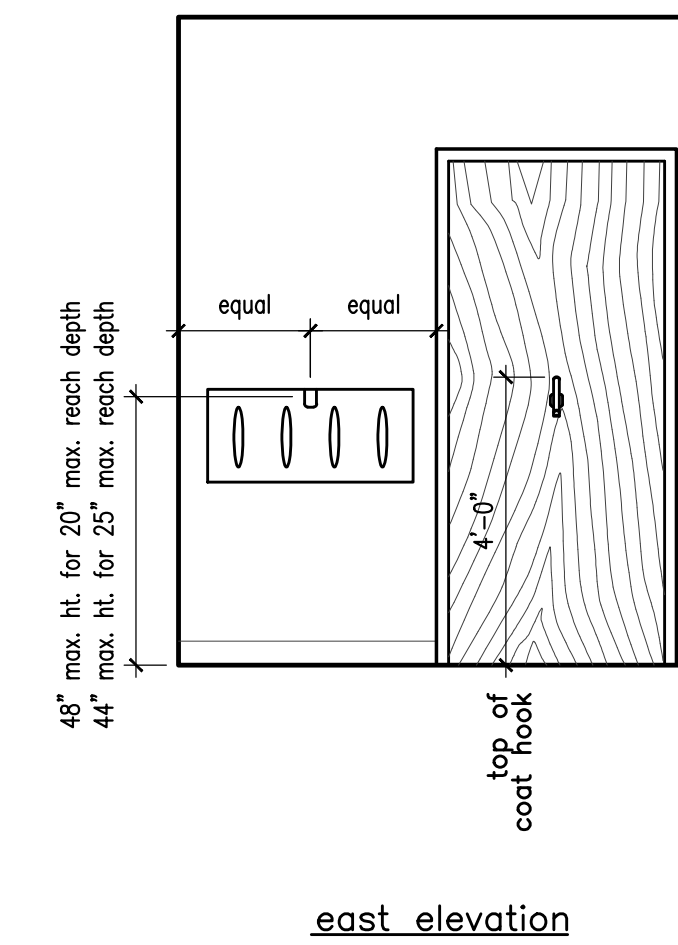
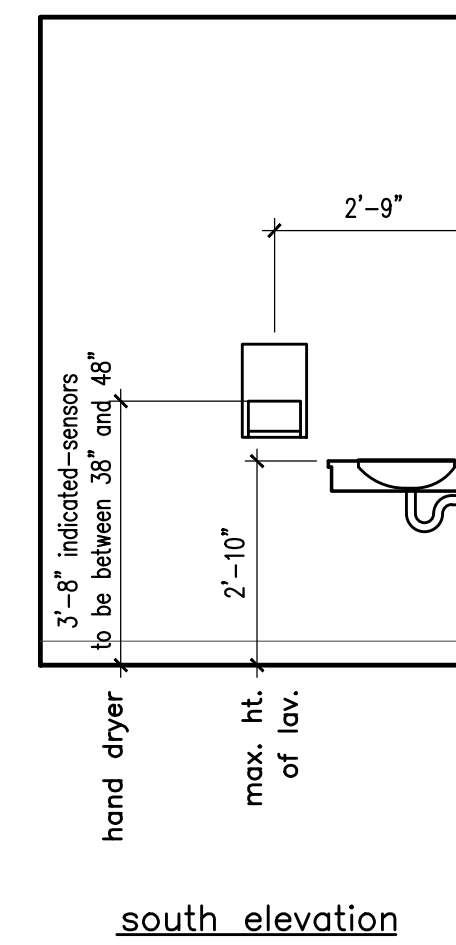
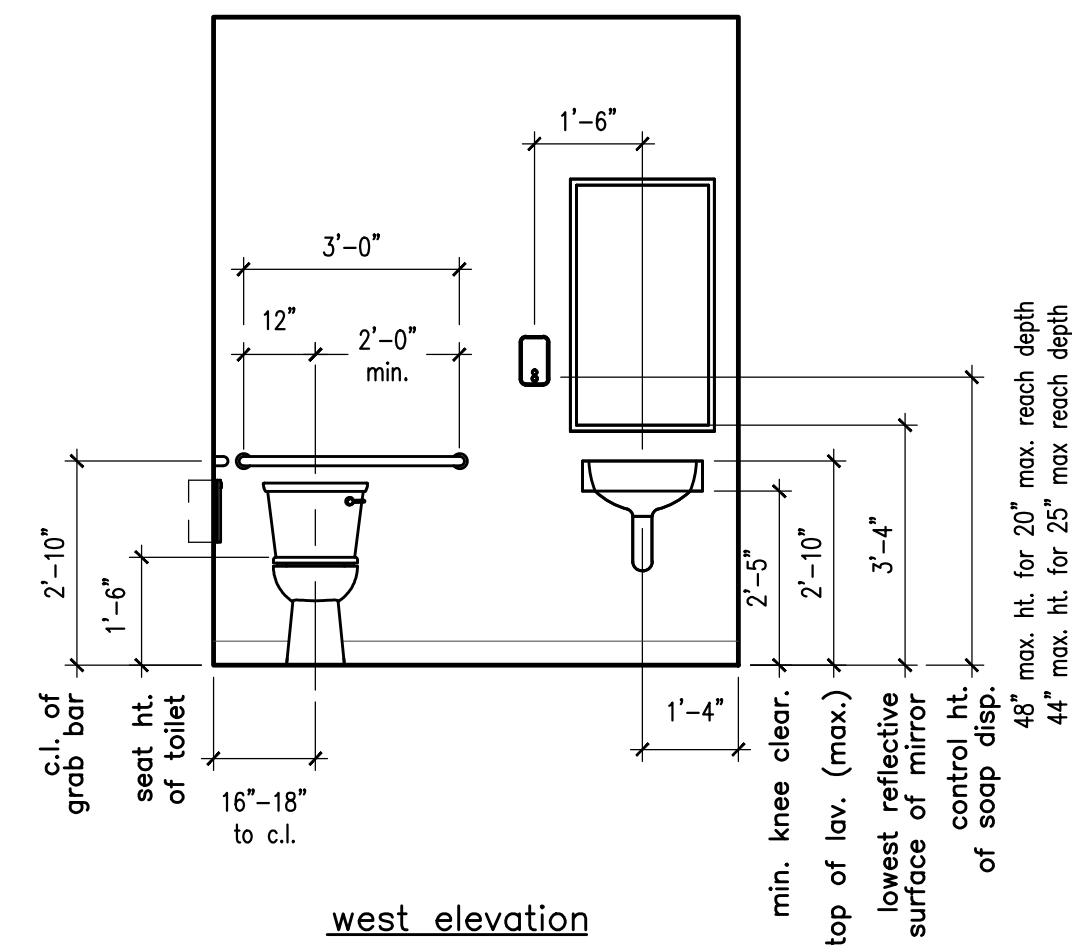
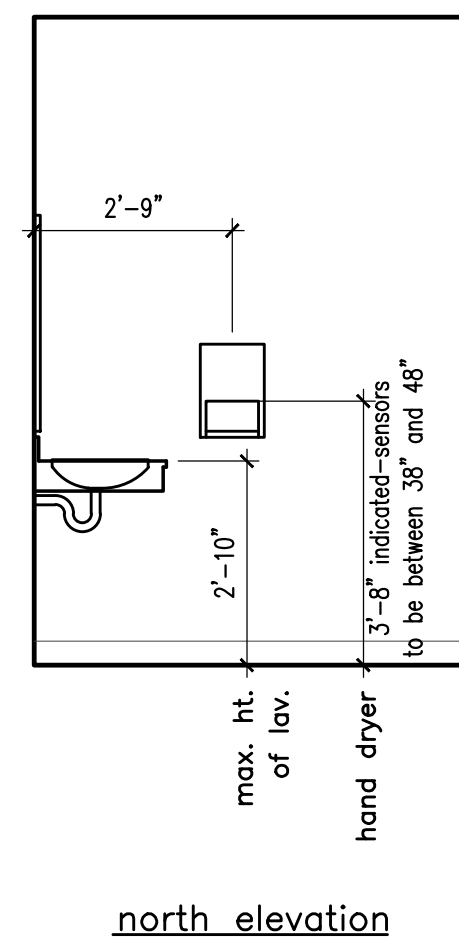
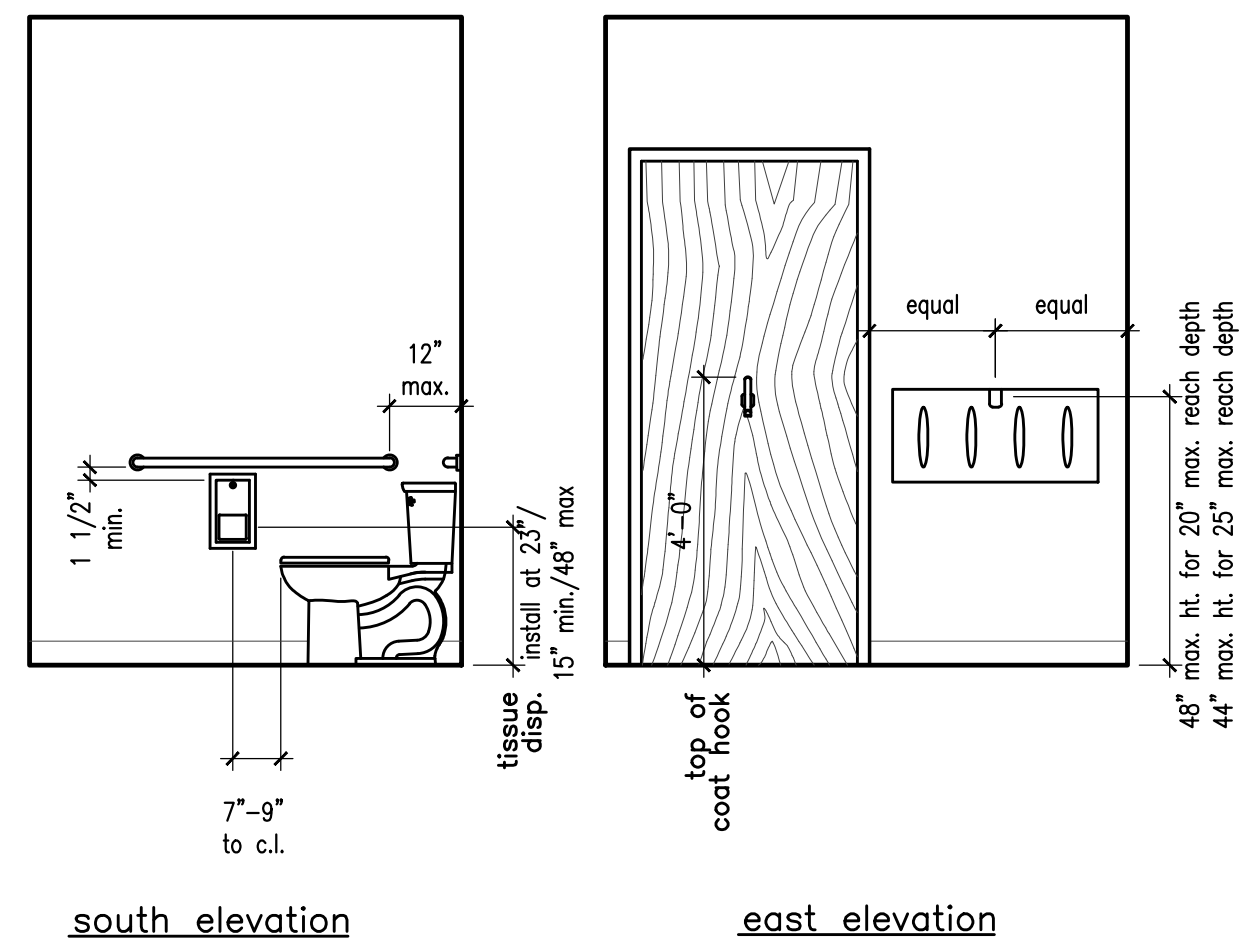
SCALE: 3/8" = 1'-0"

3 ENLARGED TOILET ROOM PLAN

SCALE: 3/8" = 1'-0"

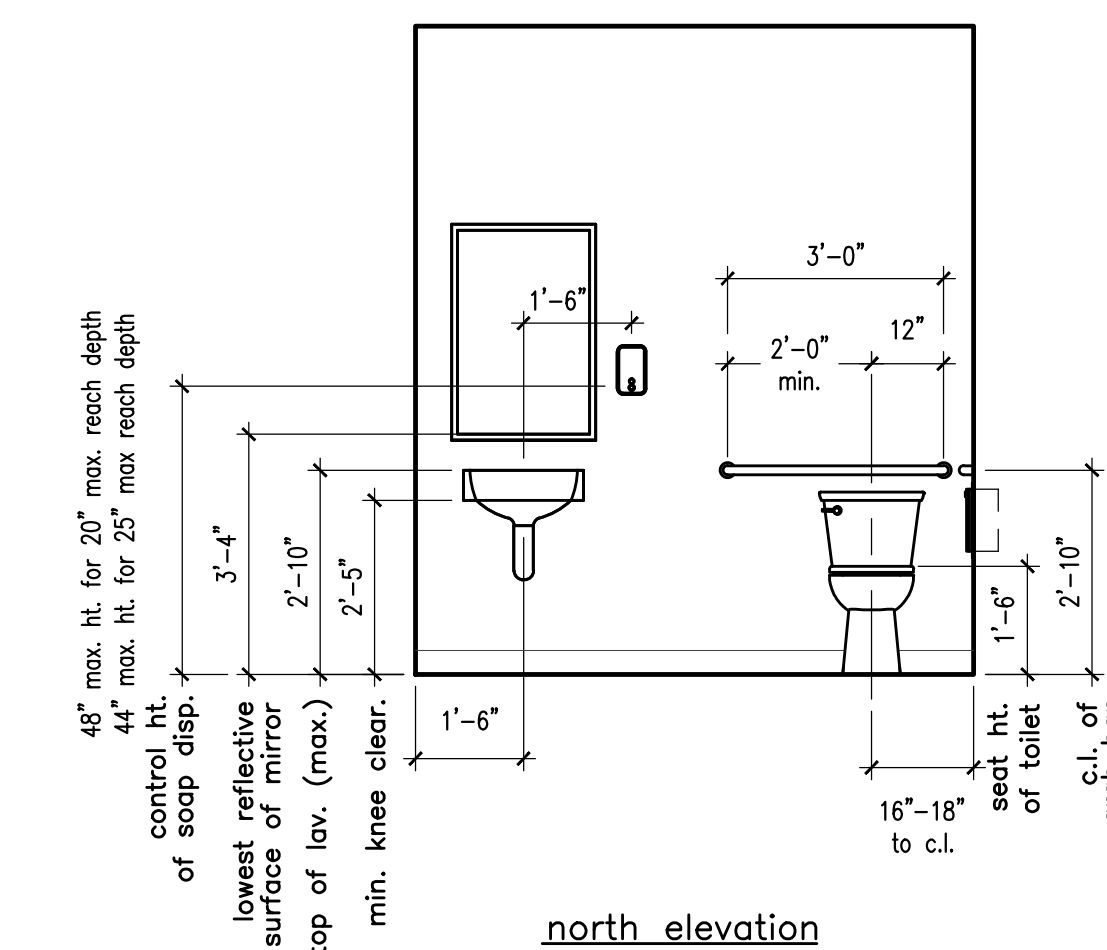
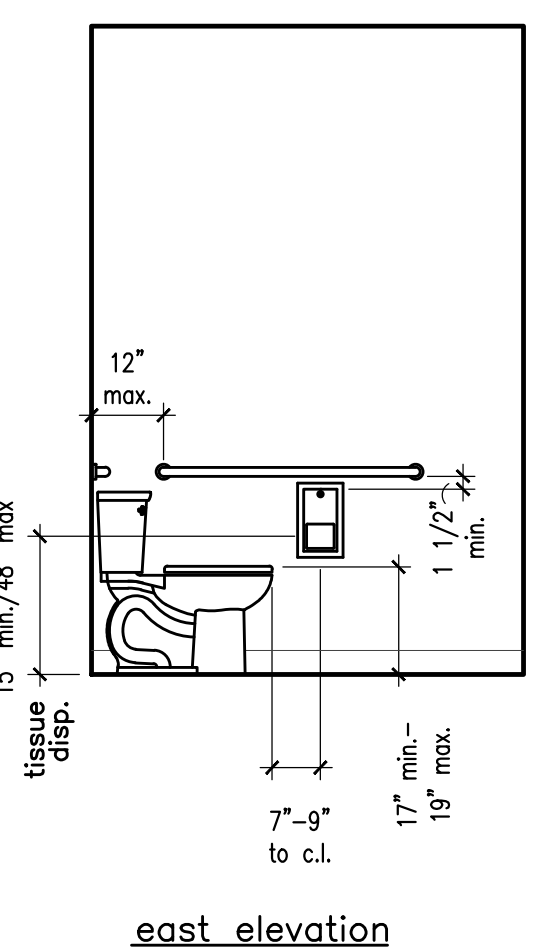
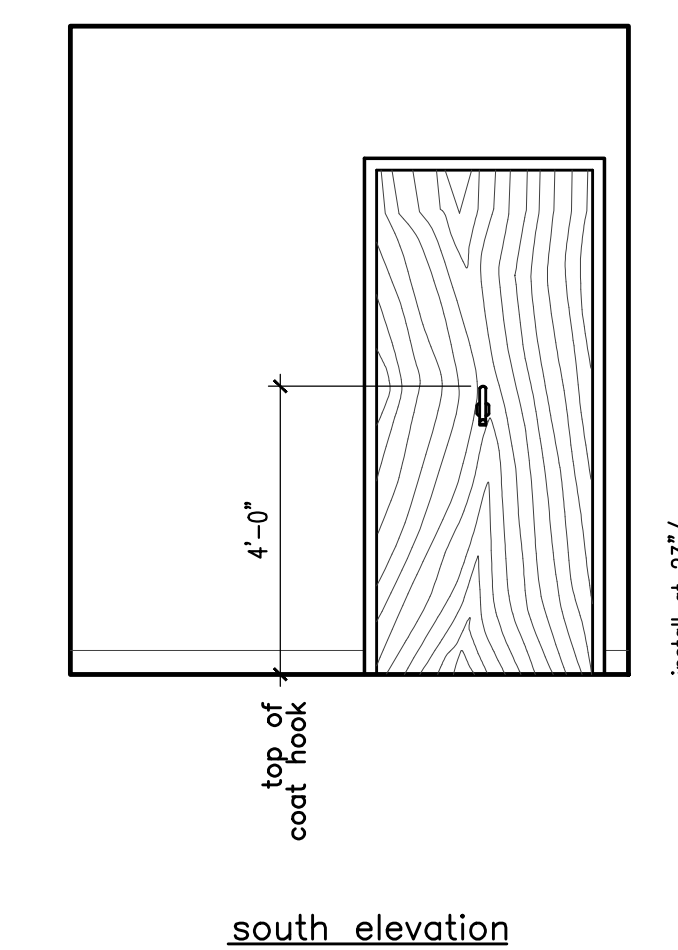
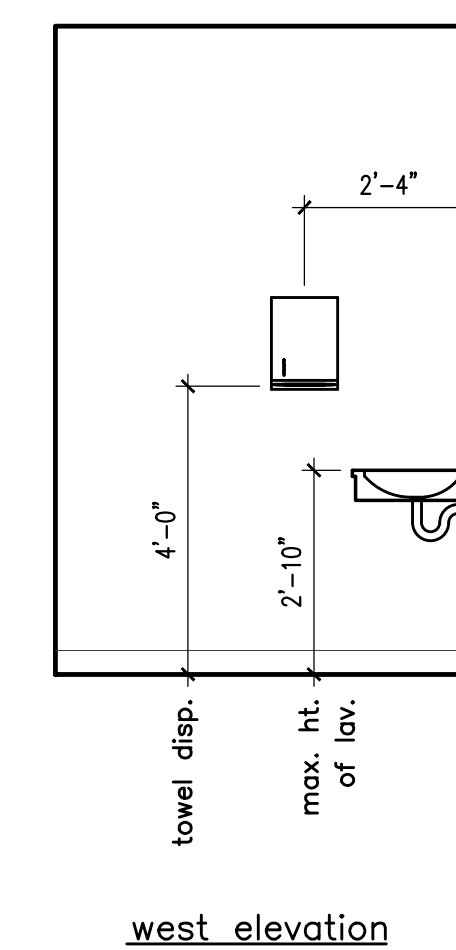
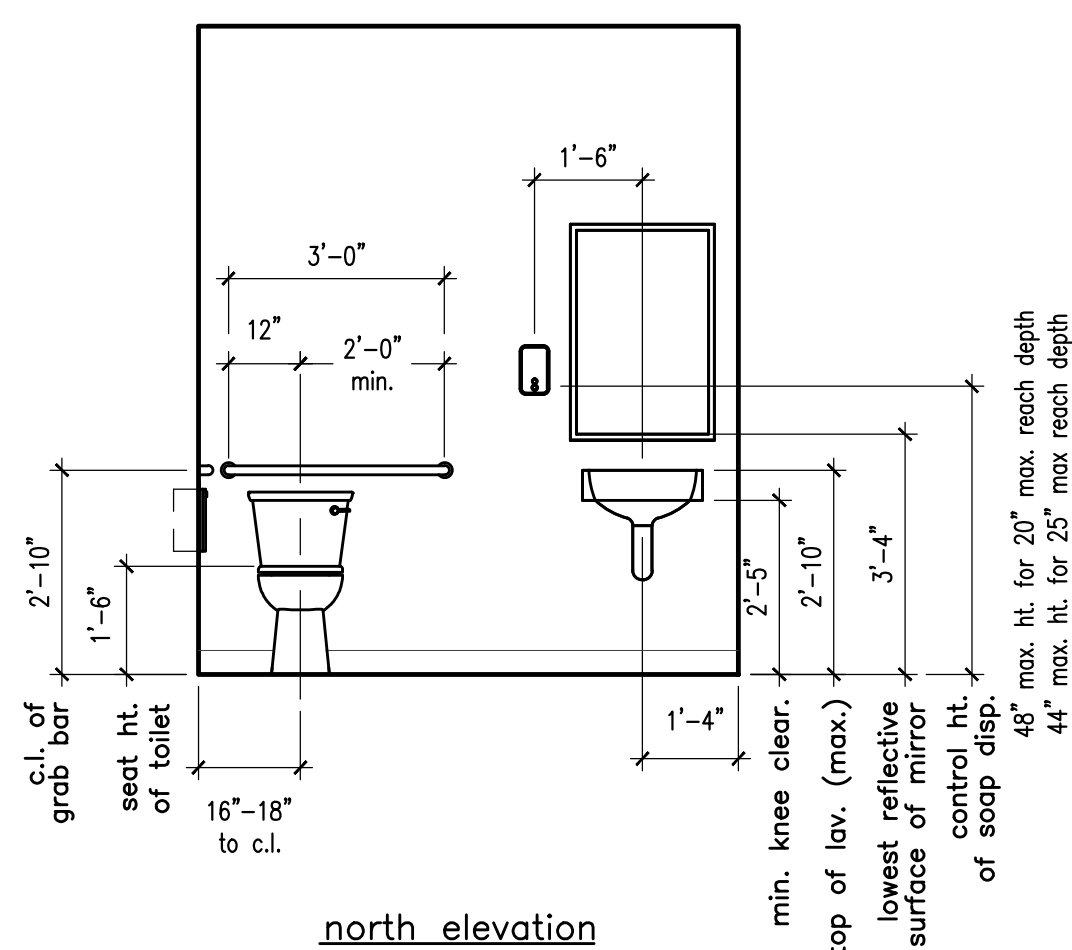
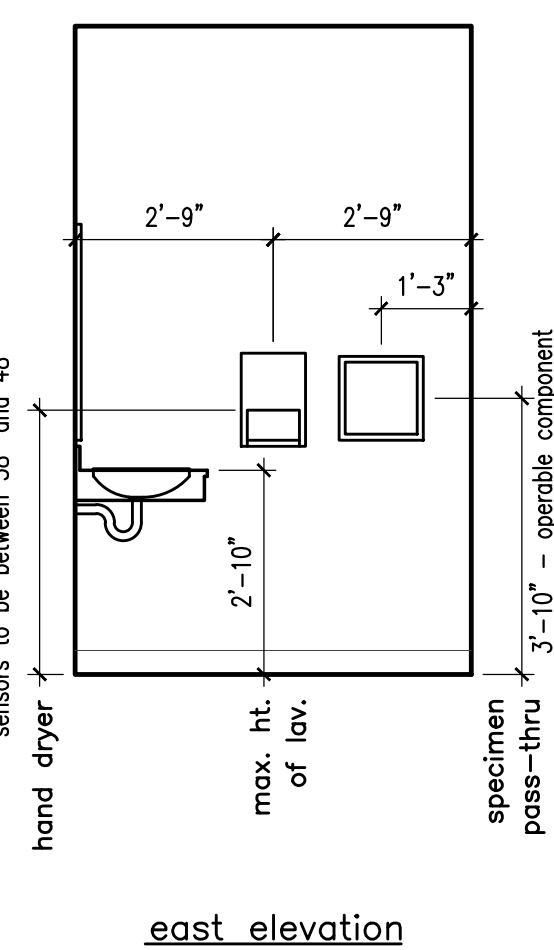
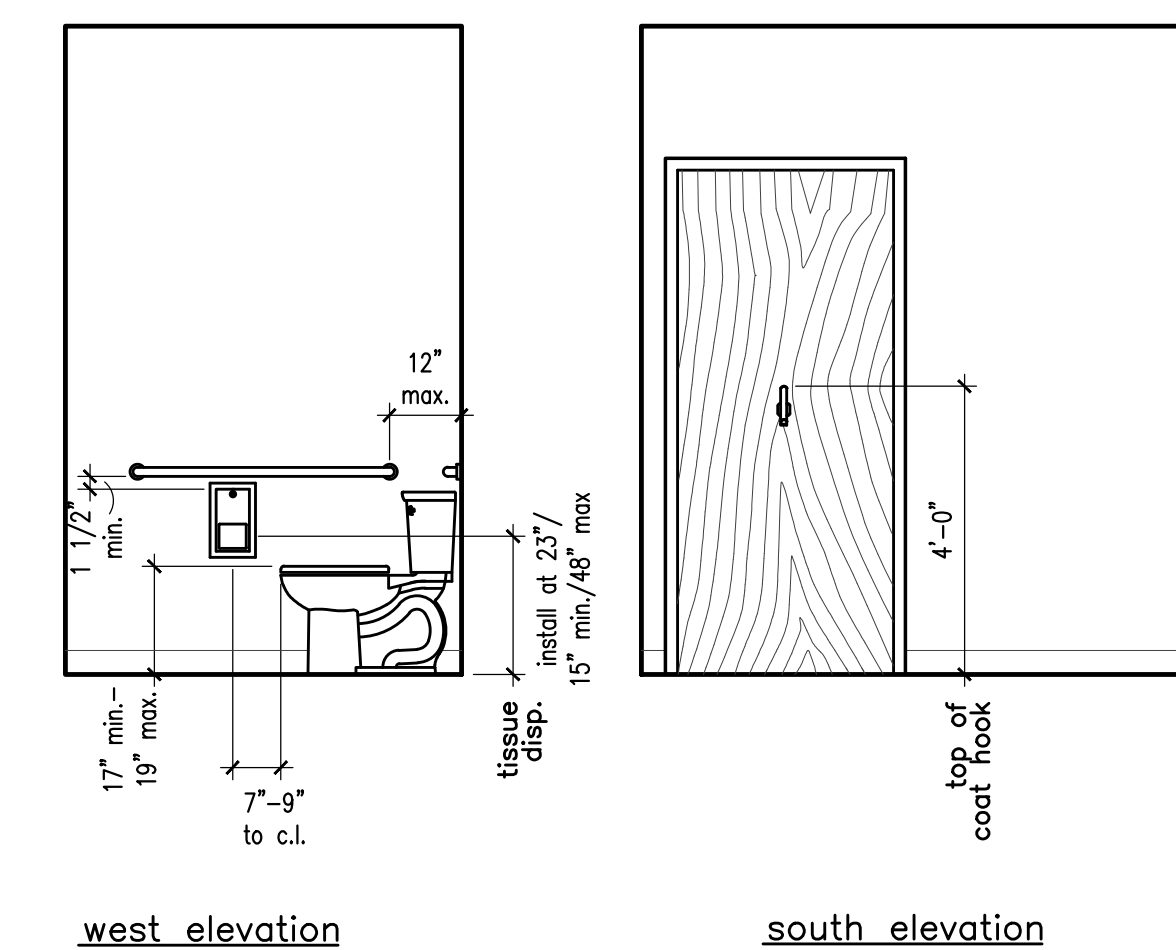
GENERAL NOTES

- Exposed hot water lines and drain pipes shall be insulated or otherwise configured to protect against contact. Provide covering devices compliant with accessibility standards.
- Provide solid blocking as required inside wall for mounting of accessories.



WOMEN - 102

MEN - 103



RESTROOM - 125

STAFF RESTROOM - 108

TOILET ROOM INTERIOR ELEVATIONS

SCALE: 3/8" = 1'-0"

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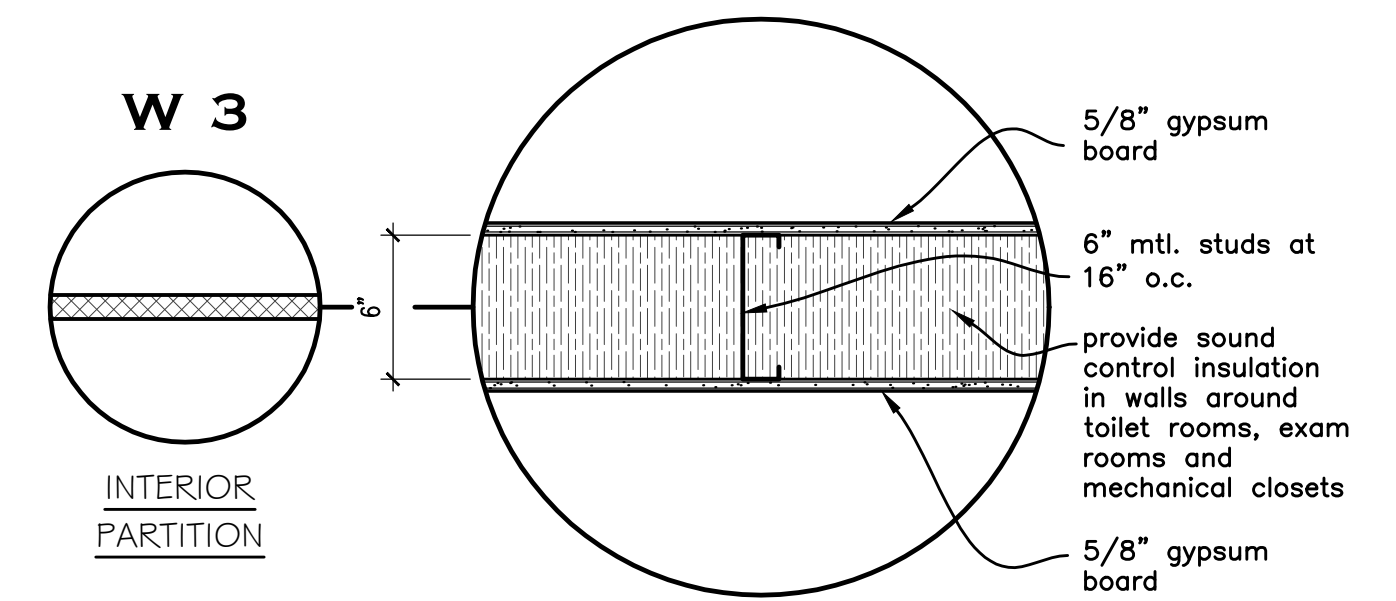
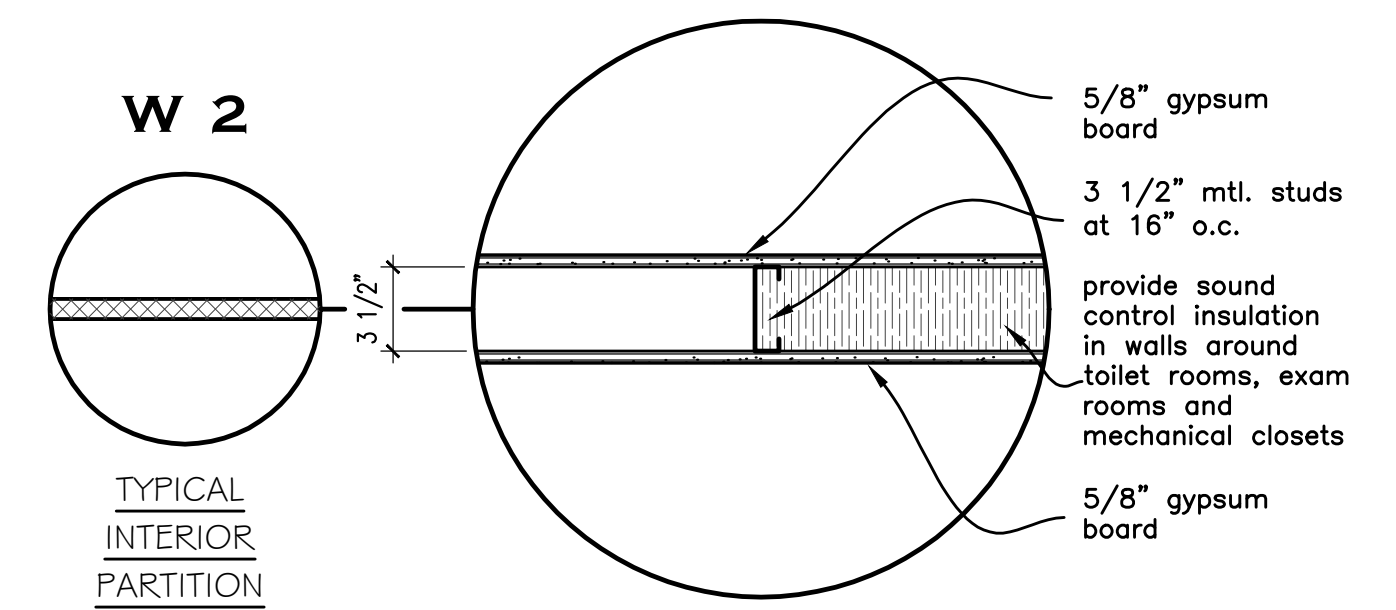
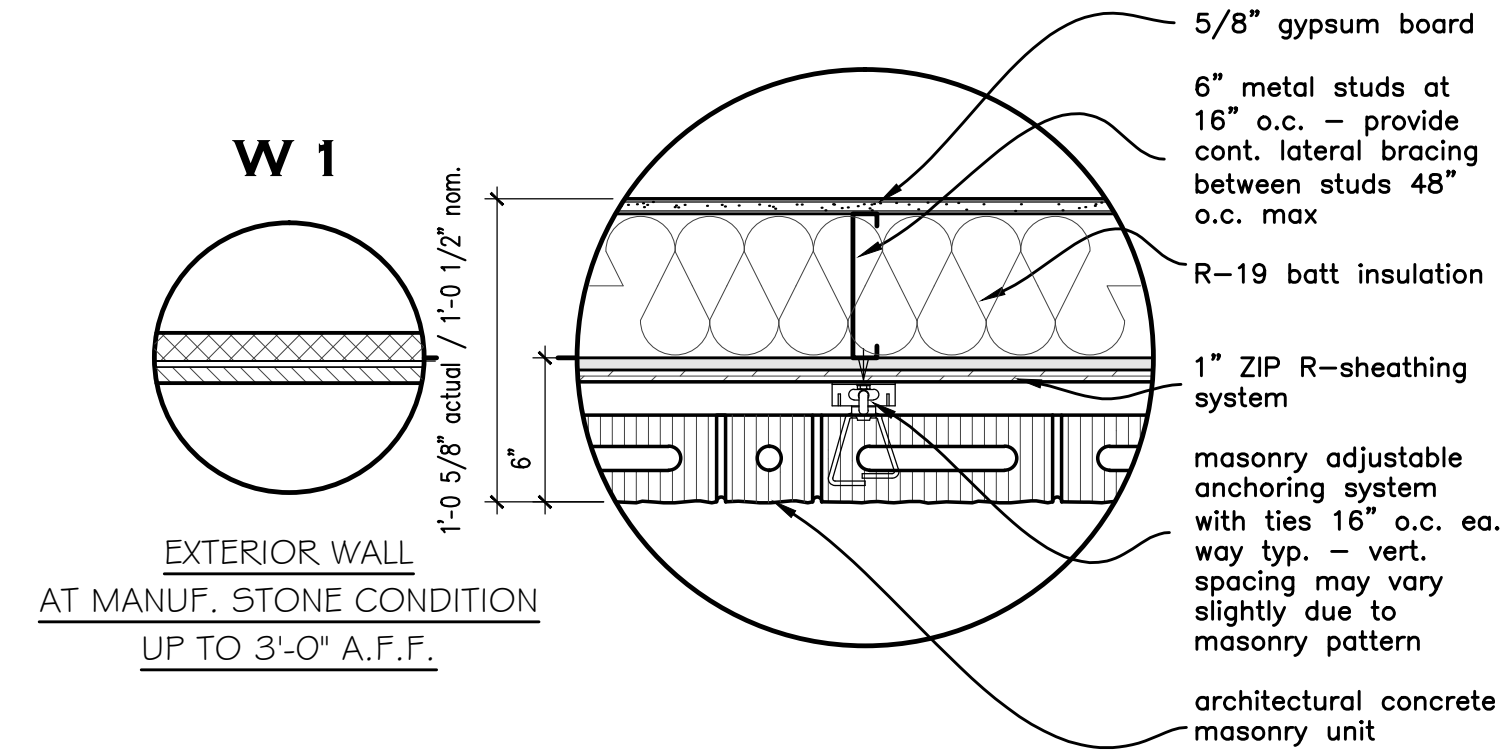
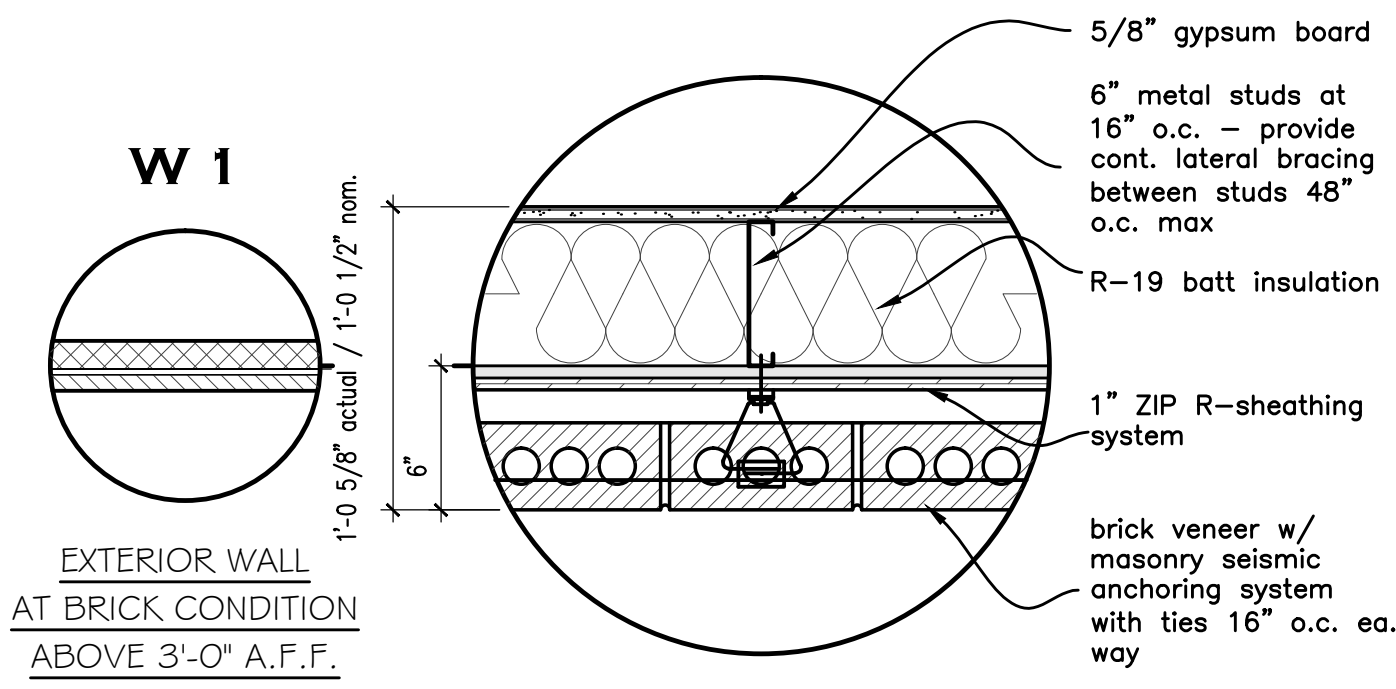
TOILET ROOM PLAN,
INTERIOR ELEVATIONS
AND SCHEDULE

A-1.4

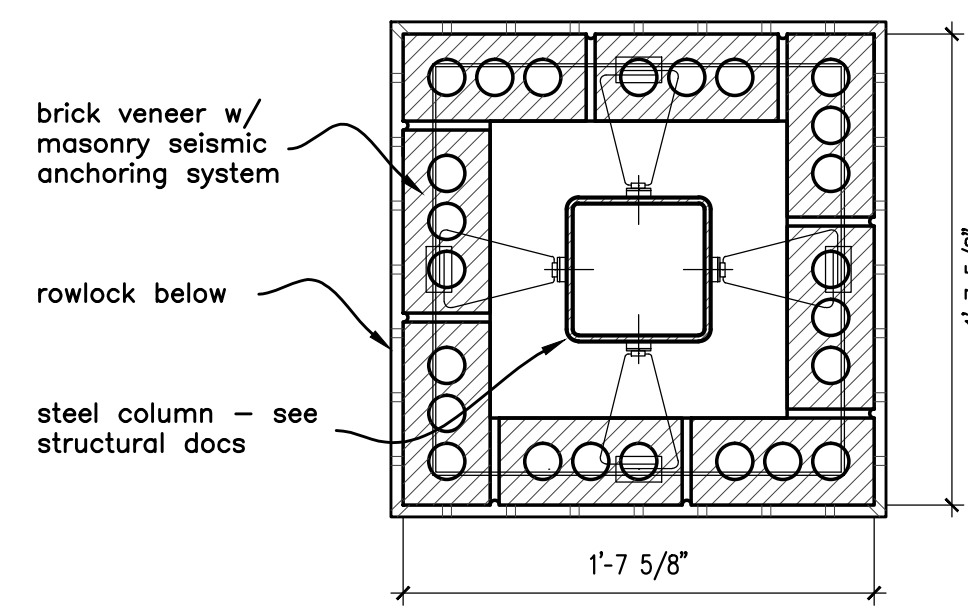
SHEET NO.

WALL TYPE NOTES

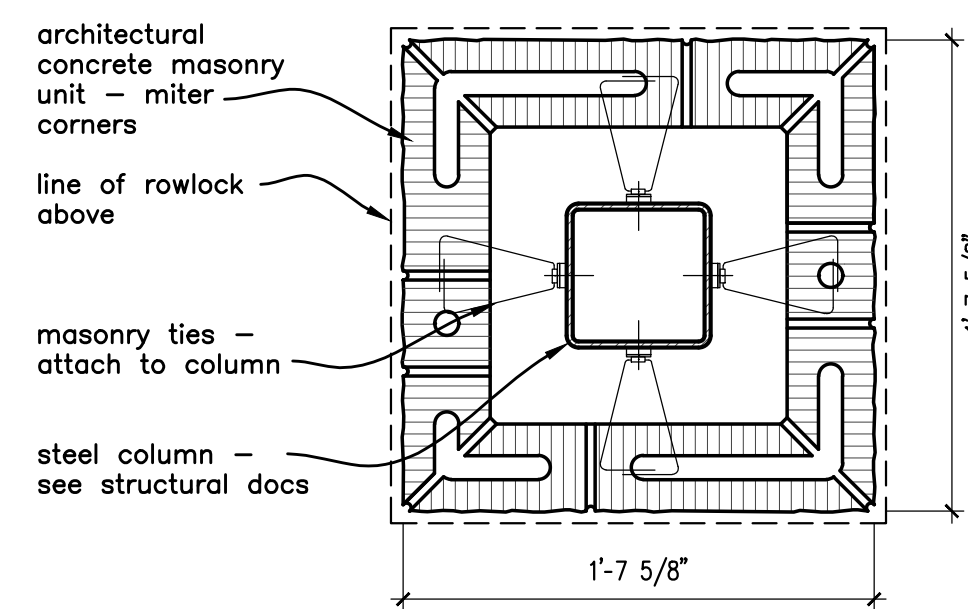
1. Refer to finish schedule for wall finishes.
2. Walls not marked on plan are typical partition wall (W 2).
3. Provide blocking as required in walls where wall mounted devices are to be installed.
4. Provide painted 3/4" plywood at following locations when applicable:
 - 4.1. Surface mounted electrical panels.
 - 4.2. Surface mounted telephone termination blocks and associated equipment.
5. Provide 3 1/2" sound batts in perimeter toilet room walls.
6. Moisture-resistant gypsum board to be installed in the following areas:
 - 6.1. Toilet rooms with floor drains;
 - 6.2. Utility closets with sinks and floor drains;
 - 6.3. Water heater closets
 - 6.4. Mechanical closets with condensate and / or floor drains.



WALL TYPES



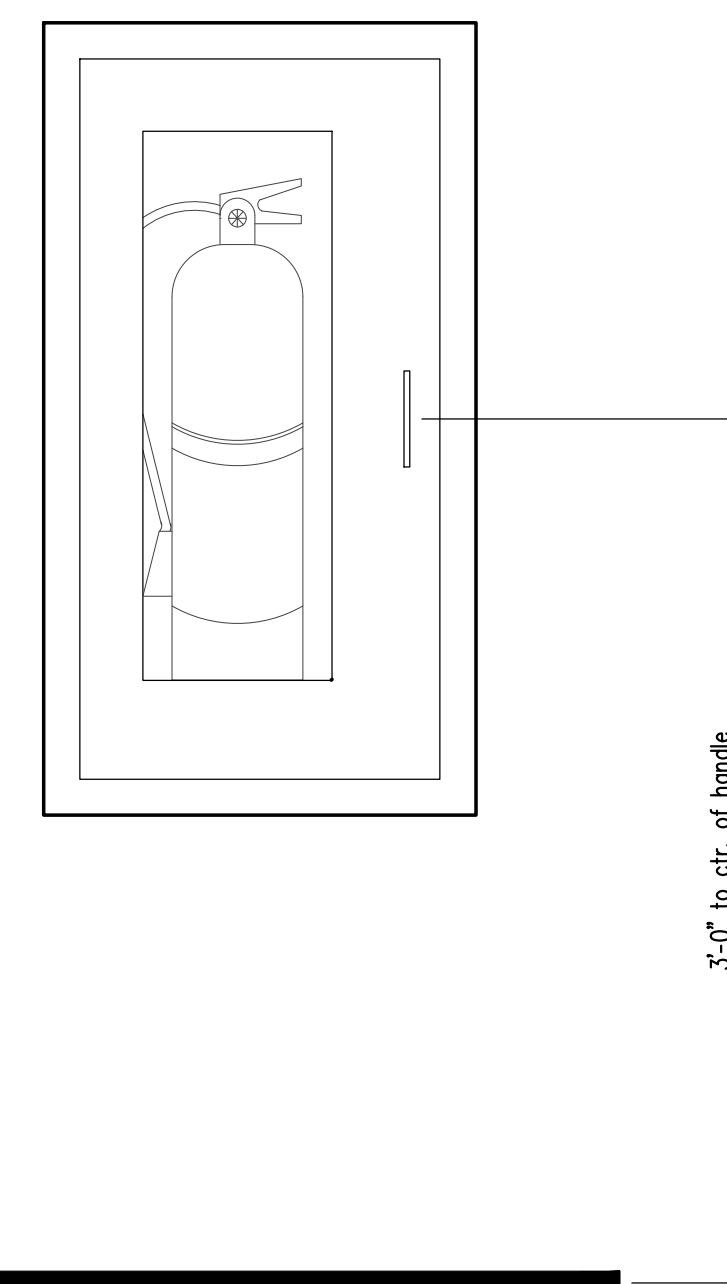
AT BRICK CONDITION
ABOVE ROWLOCK



AT CMU CONDITION
BELOW ROWLOCK

BRICK COLUMN DETAIL

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



MOUNTING HEIGHT - FIRE EXT. CABINET

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

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SEAL
ARKANSAS
MATT SILAS
REGISTERED ARCHITECT
3216
10-26-20

WALL TYPES
AND
PLAN DETAILS

A-1.5

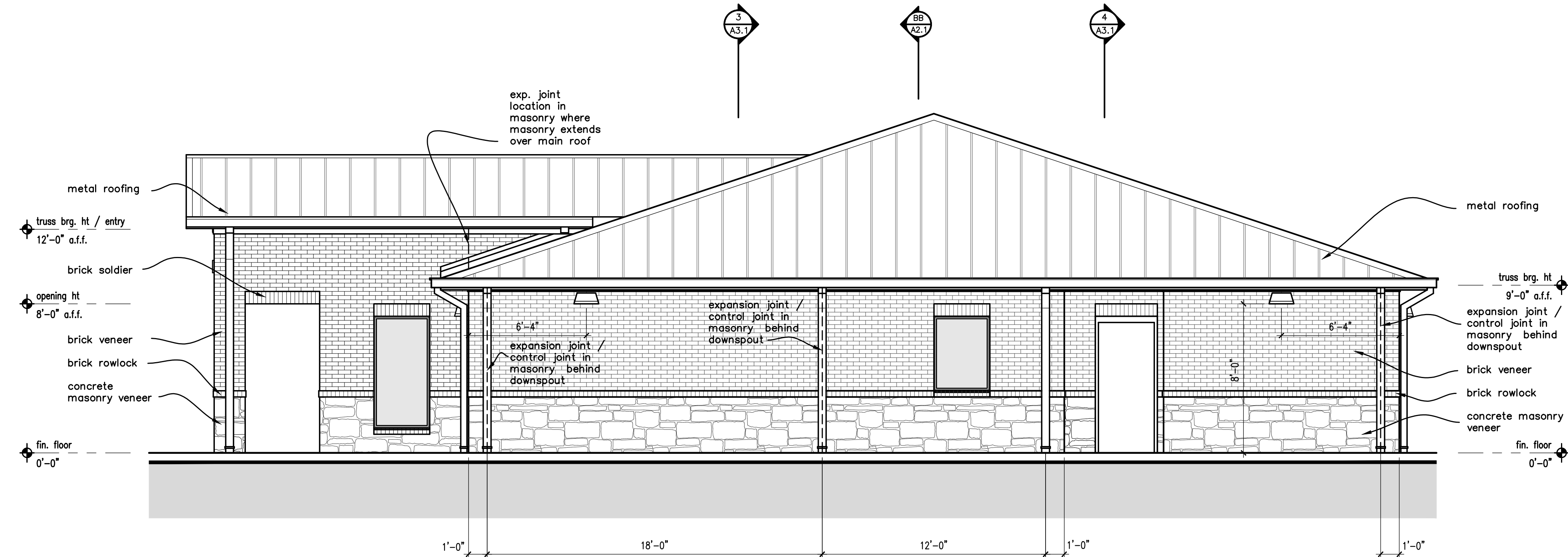
SHEET NO.

GENERAL NOTES

1. METAL ROOFING:
 - 1.1. See specification manual.
2. MASONRY BRICK VENEER:
 - 2.1. See specifications for masonry allowance.
 - 2.2. Size: Modular
 - 2.3. Pattern: 1/2 running bond.
3. ARCHITECTURAL CONCRETE MASONRY UNITS:
 - 3.1. Products shall be equal to the following:
 - 3.1.1. Manufacturer: Netleton Concrete, Inc.
 - 3.1.2. Series: Tumbleridge Nettlesone
 - 3.1.3. Pattern: Selection made from all options.
 - 3.1.4. Sizes / Shape: Incorporate full range of sizes and shapes.
4. BOX GUTTERS AND DOWNSPOUTS:
 - 4.1. See specification manual.
 - 4.2. Connect downspouts to subsurface drainage system - See civil documents.
5. BUILDING SIGNAGE
 - 5.1. See specification manual.
 - 5.2. Size: based on 8 inch upper case letter.
 - 5.3. Upper Case: first letter of each word.
 - 5.4. Lower Case: all except first letter.
6. INSTALLATION OF COMPONENTS
 - 6.1. Install all exterior building components in accordance with manufacturer's instructions and warranty requirements.
7. EXPOSED STEEL
 - 7.1. Paint all exposed steel.
 - 7.2. Color: to be selected by the architect.
8. ROOF SLOPE
 - 8.1. 4 units vertical
 - 8.2. 12 units horizontal

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SIDE / WEST ELEVATION

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



FRONT / NORTH ELEVATION

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

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10-26-20
 EXTERIOR ELEVATIONS

A-2.1

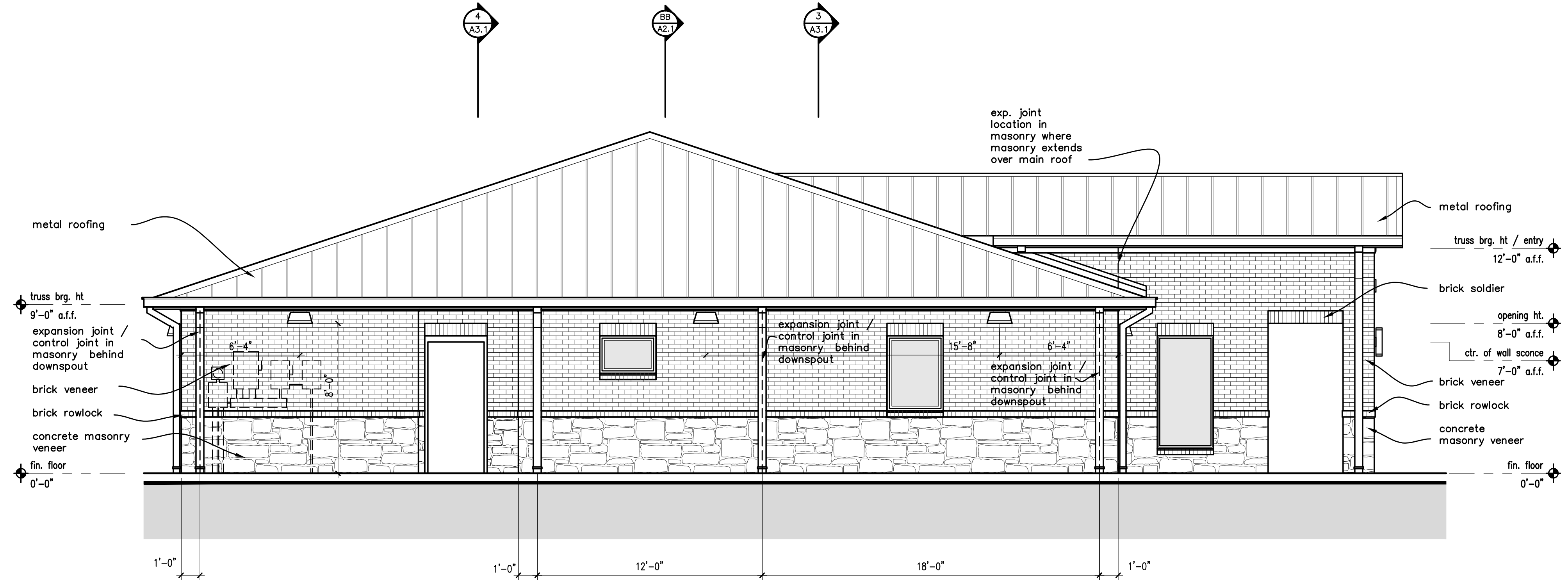
SHEET NO.

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 - 1.1. See specification manual.
2. MASONRY BRICK VENEER:
 - 2.1. See specifications for masonry allowance.
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 - 4.2. Connect downspouts to subsurface drainage system - See civil documents.
5. BUILDING SIGNAGE
 - 5.1. See specification manual.
 - 5.2. Size: based on 8 inch upper case letter.
 - 5.3. Upper Case: first letter of each word.
 - 5.4. Lower Case: all except first letter.
6. INSTALLATION OF COMPONENTS
 - 6.1. Install all exterior building components in accordance with manufacturer's instructions and warranty requirements.
7. EXPOSED STEEL
 - 7.1. Paint all exposed steel.
 - 7.2. Color: to be selected by the architect.
8. ROOF SLOPE
 - 8.1. 4 units vertical
 - 8.2. 12 units horizontal

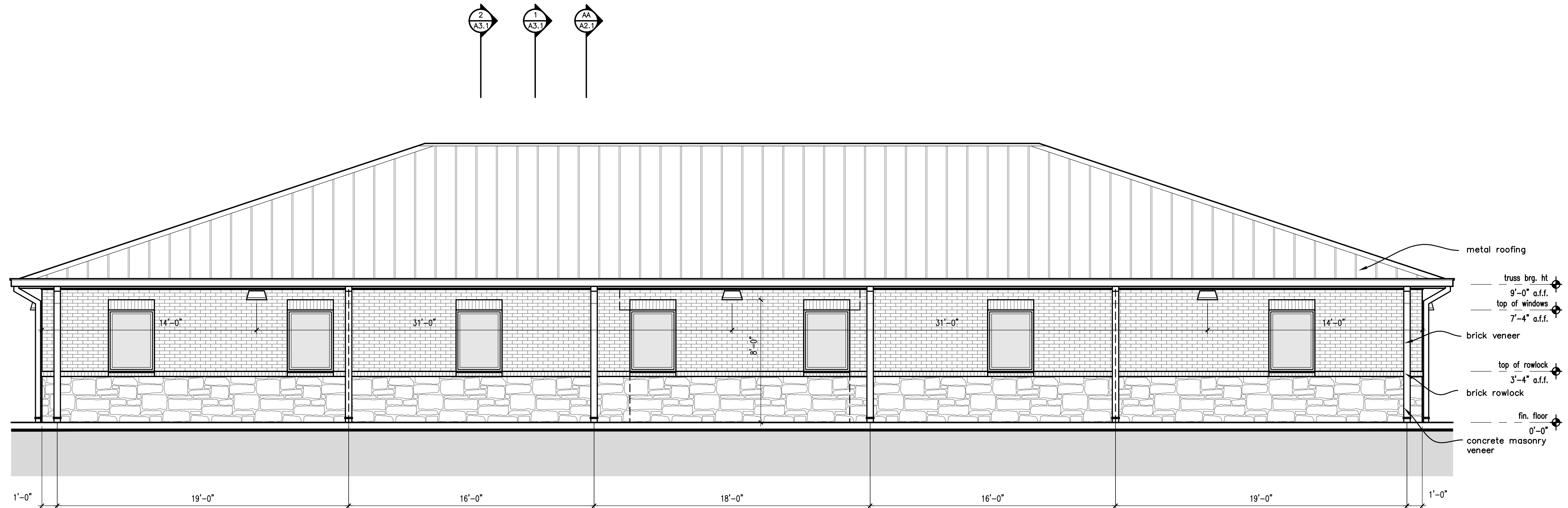
PROJECT NO. 190807
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SIDE / EAST ELEVATION

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



REAR / SOUTH ELEVATION

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

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HEALTH UNIT
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10-26-20
 EXTERIOR ELEVATIONS

A-2.2

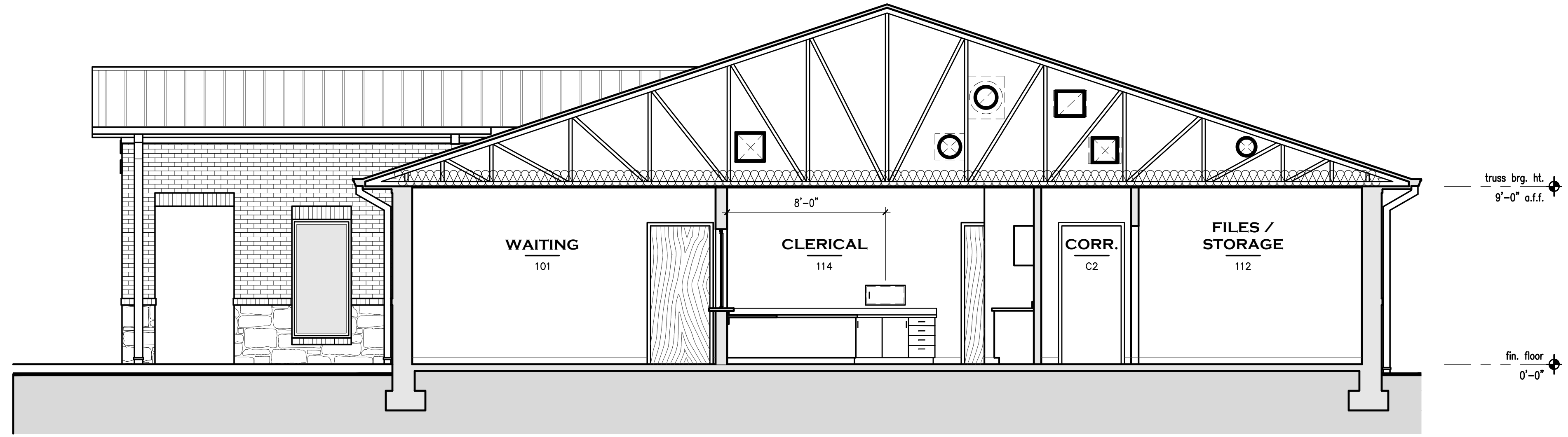
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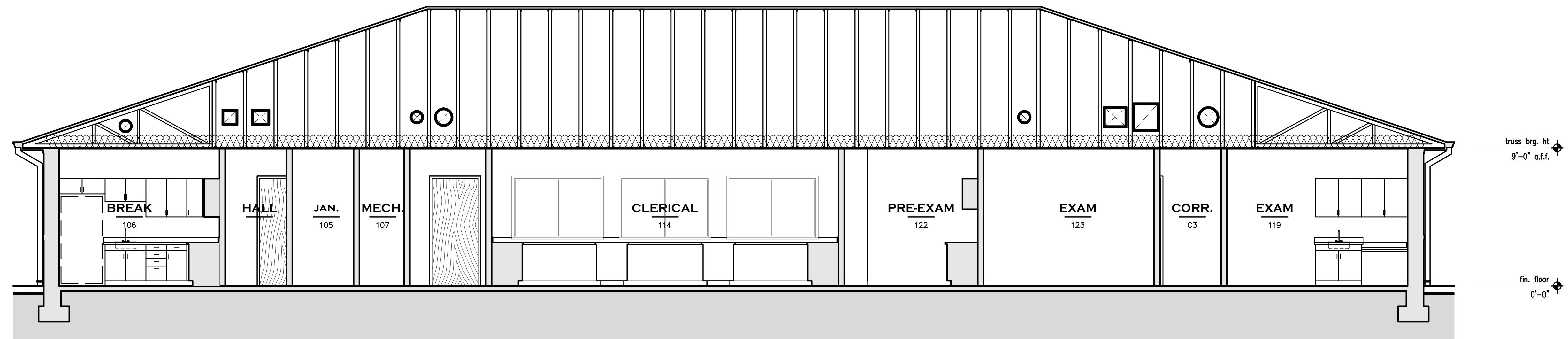
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BUILDING SECTION A · A

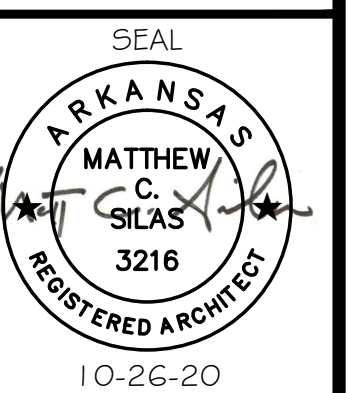
SCALE: 1/4" = 1'-0"



BUILDING SECTION B · B

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

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10-26-20
BUILDING
SECTIONS

A-2.3

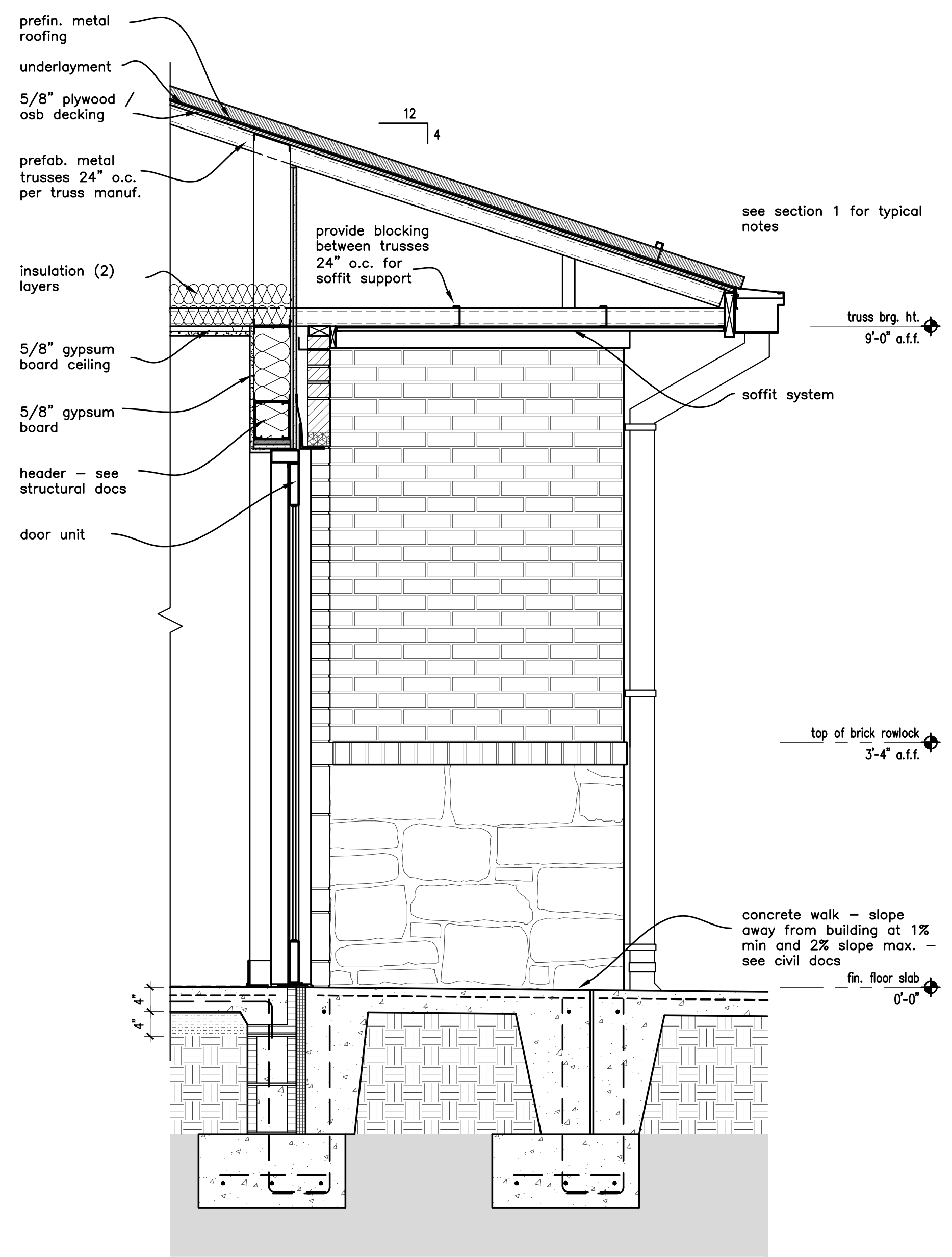
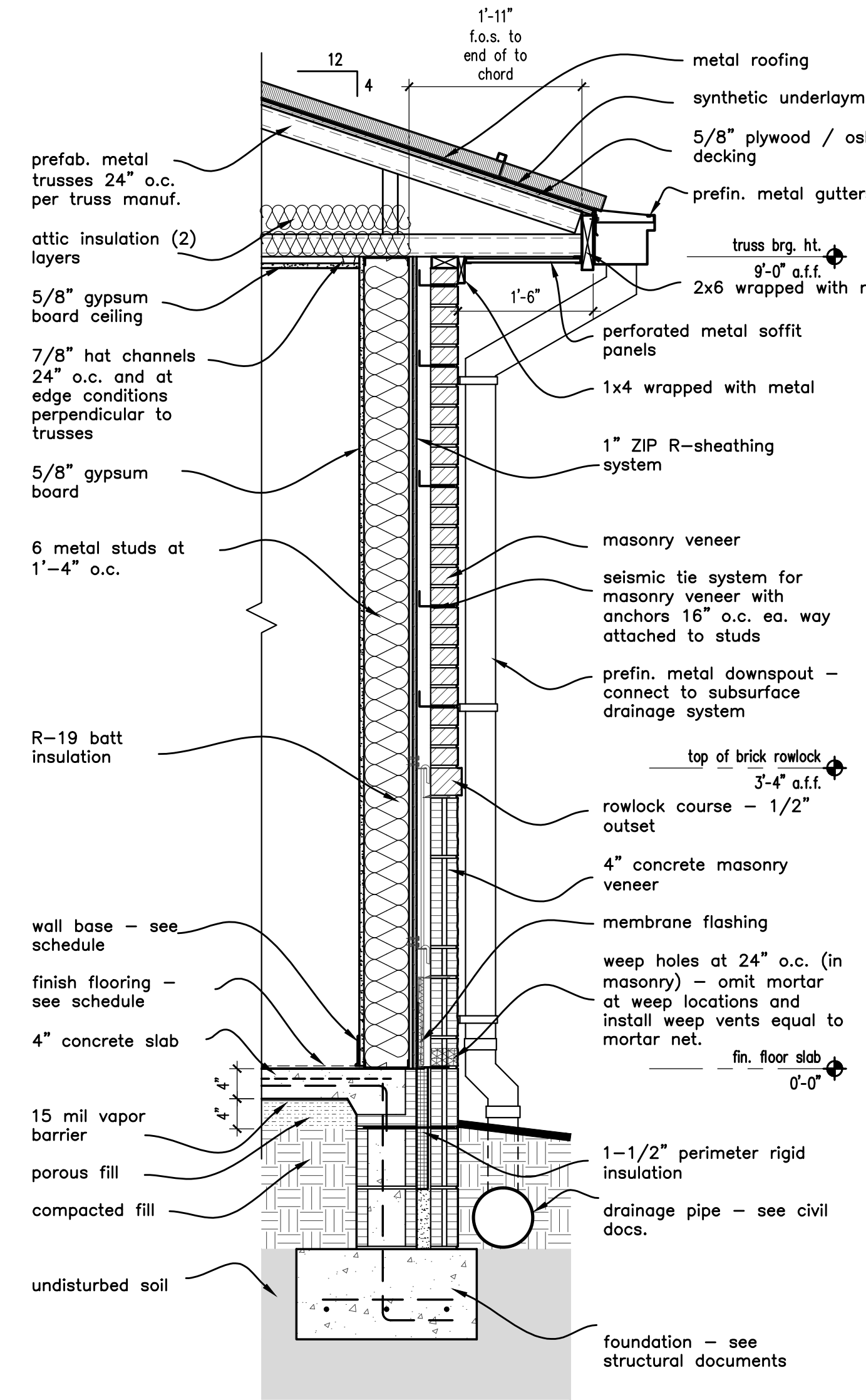
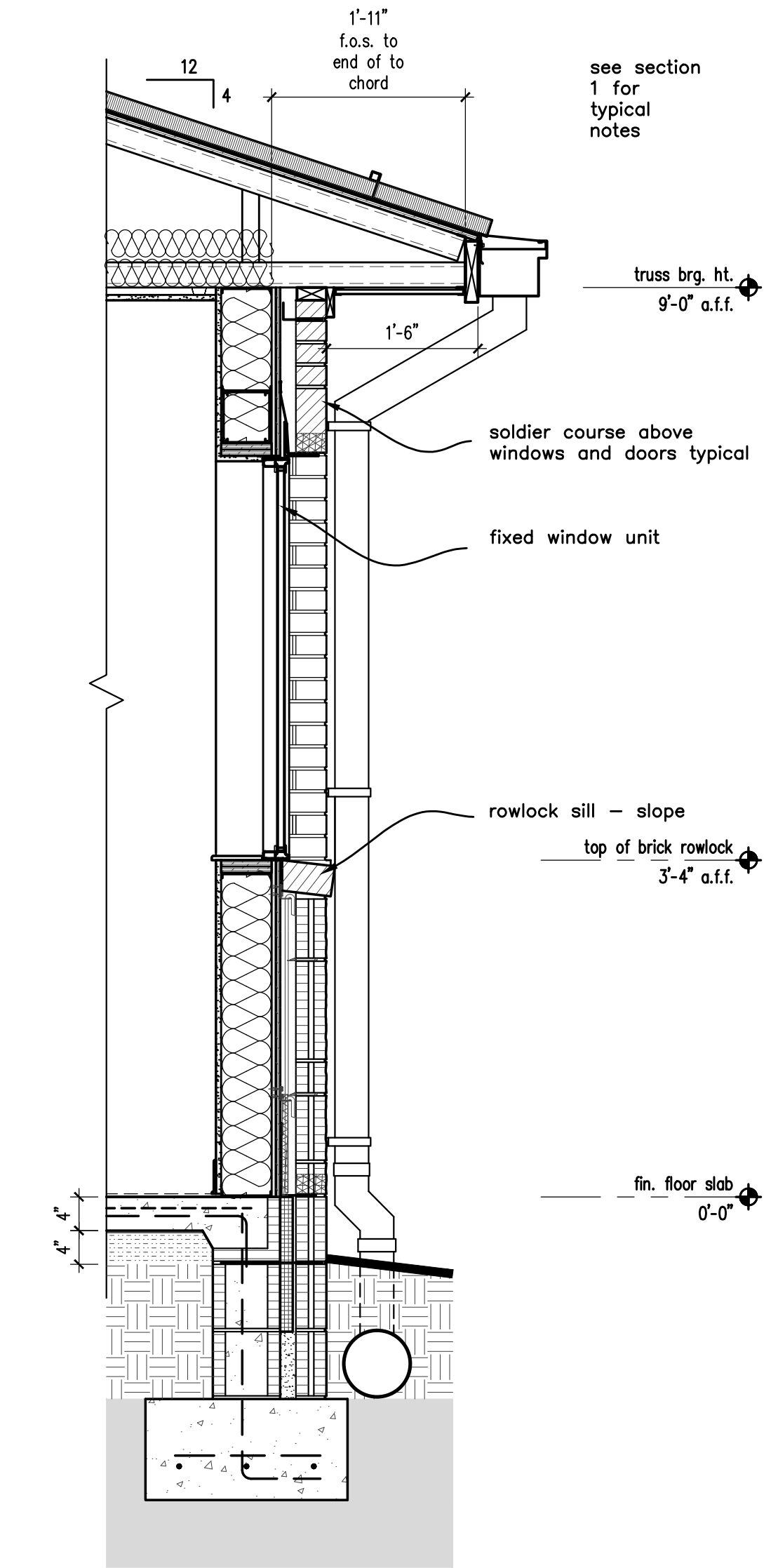
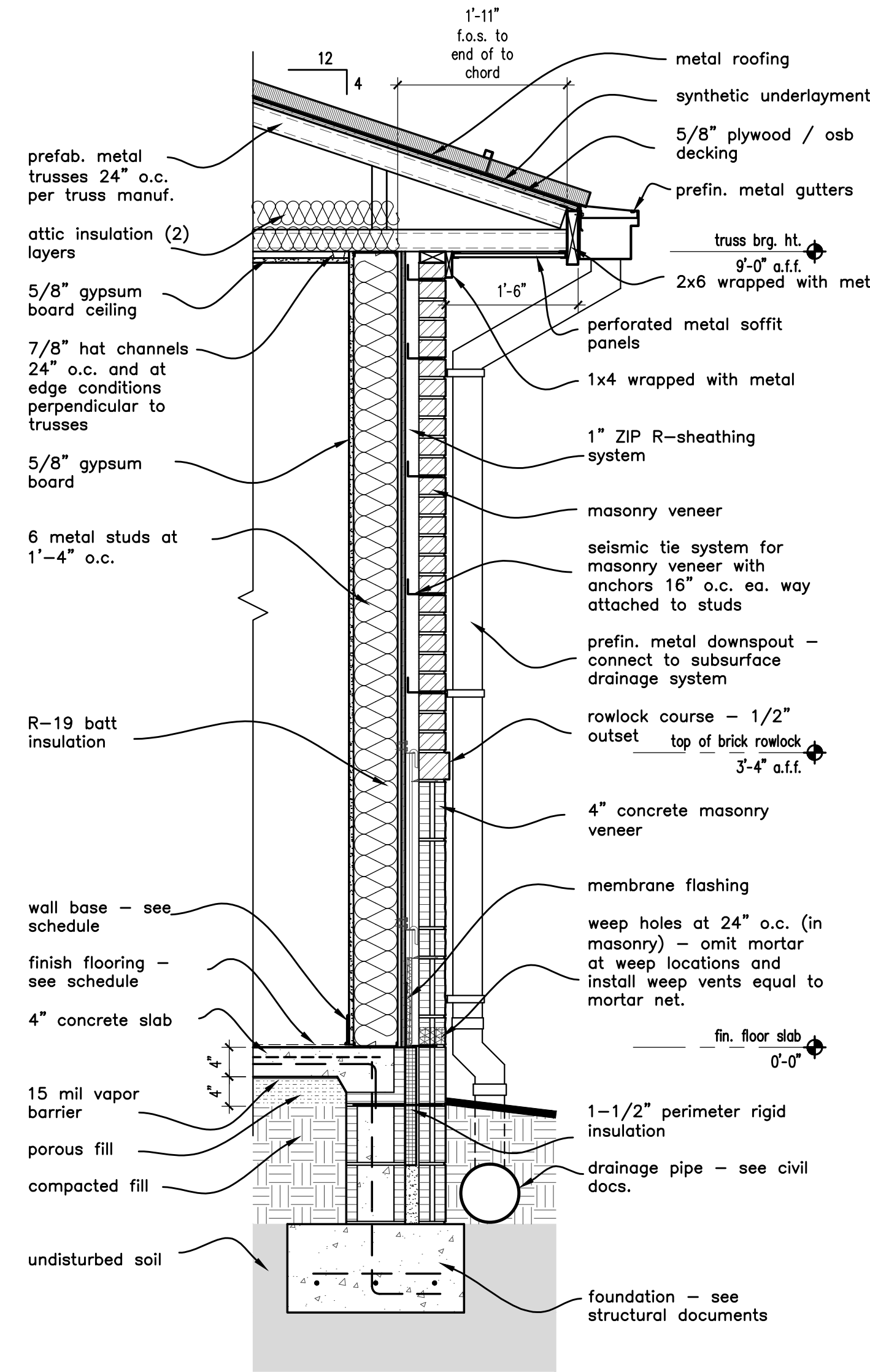
SHEET NO.

GENERAL NOTES

<p>1. MASONRY WEEP SYSTEM</p> <p>1.1. Provide weep holes at 24" o.c. (in masonry) - omit mortar at weep locations and install weep vents equal to Mortar Net Solutions product.</p> <p>1.2. Provide mortar dropping collection device equal to Mortar Net Solutions product continuous around perimeter. Provide 1" thick with insect barrier.</p> <p>2. MEMBRANE FLASHING AT MASONRY WALLS</p> <p>2.1. Equal to TotalFlash system manufactured by Mortar Net Solutions.</p> <p>3. EXPOSED STEEL LINTELS</p> <p>3.1. Paint exposed steel. See structural documents for sizes.</p>	<p>4. SHEATHING SYSTEM</p> <p>4.1. Manufacturer: Huber Engineered Woods</p> <p>4.2. Product:</p> <p>4.2.1. Zip System R-sheathing.</p> <p>4.2.1.1. Panel Thickness: 1 inch.</p> <p>4.2.1.2. R-value: 3.6</p> <p>4.2.2. Zip Wall Sheathing</p> <p>4.2.2.1. Panel Thickness: 1/2 inch.</p> <p>4.3. Installation: Install in accordance with manufacturer's instructions and install fluid-applied flashing at following locations:</p> <p>4.3.1. All Joints;</p> <p>4.3.2. Faster and penetration locations;</p> <p>4.3.3. Window sills up to 6" on jamb;</p> <p>4.3.4. Up to 12" from bottom of wall.</p>	<p>5. ATTIC INSULATION</p> <p>5.1. Fiberglass, two-layer system.</p> <p>5.1.1. First layer to run parallel with trusses.</p> <p>5.1.2. Second layer to run perpendicular to trusses</p> <p>5.2. Minimum R-value: 30 (combined).</p>
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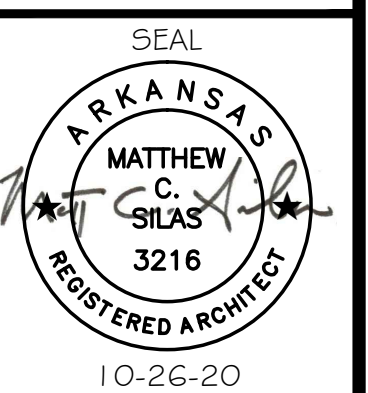
1 TYPICAL WALL SECTION
 SCALE: 3/4" = 1'-0"

2 SECTION AT WINDOW
 SCALE: 3/4" = 1'-0"

3 WALL SECTION
 SCALE: 3/4" = 1'-0"

4 SECTION AT SECONDARY ENTRIES
 SCALE: 3/4" = 1'-0"

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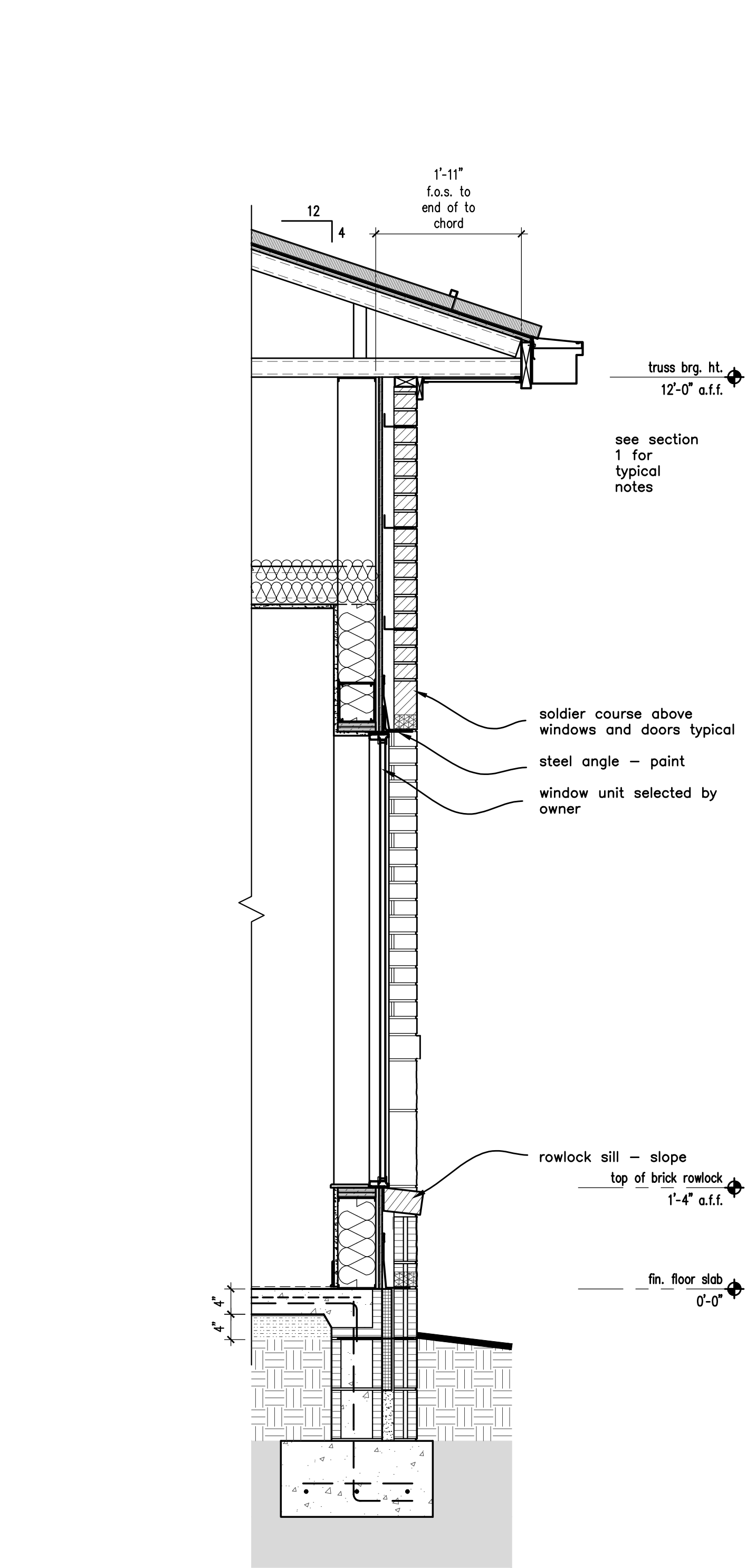


WALL SECTIONS

A-3.1
 SHEET NO.

GENERAL NOTES

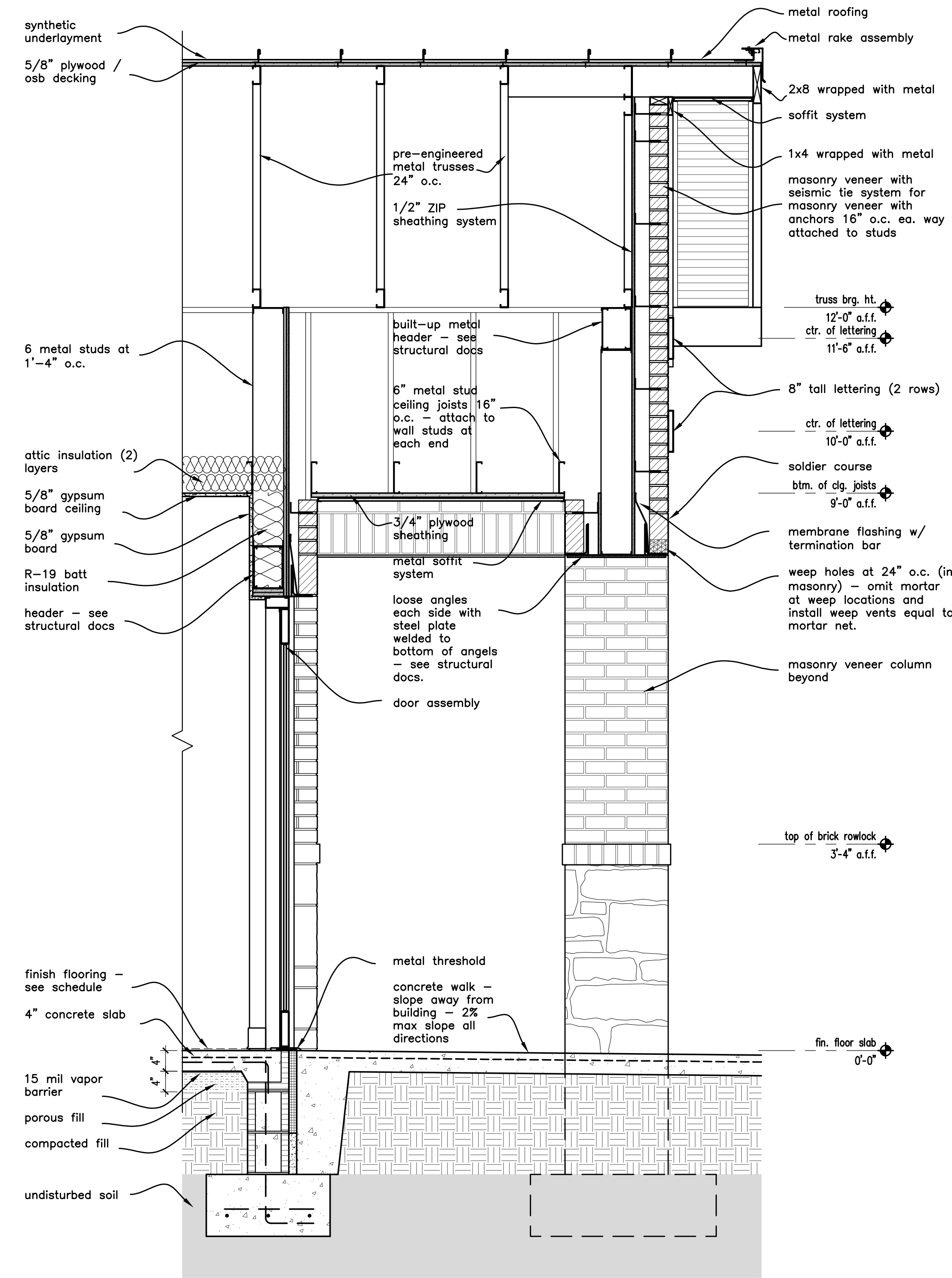
<p>1. MASONRY WEEP SYSTEM</p> <p>1.1. Provide weep holes at 24" o.c. (in masonry) - omit mortar at weep locations and install weep vents equal to Mortar Net Solutions product.</p> <p>1.2. Provide mortar dropping collection device equal to Mortar Net Solutions product continuous around perimeter. Provide 1" thick with insect barrier.</p>	<p>4. SHEATHING SYSTEM</p> <p>4.1. Manufacturer: Huber Engineered Woods</p> <p>4.2. Product:</p> <p>4.2.1. Zip System R-sheathing.</p> <p>4.2.1.1. Panel Thickness: 1 inch.</p> <p>4.2.1.2. R-value: 3.6</p> <p>4.2.2. Zip Wall Sheathing</p> <p>4.2.2.1. Panel Thickness: 1/2 inch.</p> <p>4.3. Installation: Install in accordance with manufacturer's instructions and install fluid-applied flashing at following locations:</p> <p>4.3.1. All Joints;</p> <p>4.3.2. Faster and penetration locations;</p> <p>4.3.3. Window sills up to 6" on jamb;</p> <p>4.3.4. Up to 12' from bottom of wall.</p>	<p>5. ATTIC INSULATION</p> <p>5.1. Fiberglass, two-layer system.</p> <p>5.1.1. First layer to run parallel with trusses.</p> <p>5.1.2. Second layer to run perpendicular to trusses</p> <p>5.2. Minimum R-value: 30 (combined).</p>
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SECTION AT ENTRY VESTIBULE

5

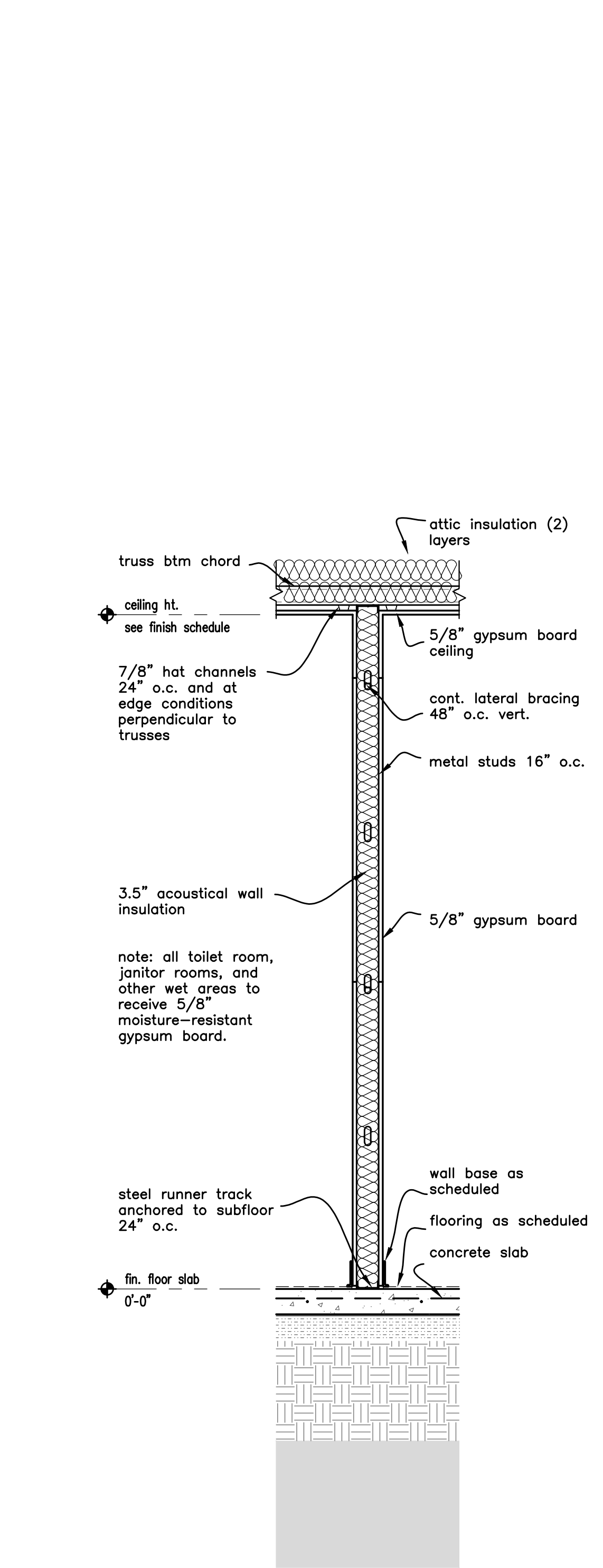
SCALE: 3/4" = 1'-0"



SECTION AT FRONT PORCH / ENTRY VESTIBULE

6

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



TYPICAL INTERIOR WALL

7

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

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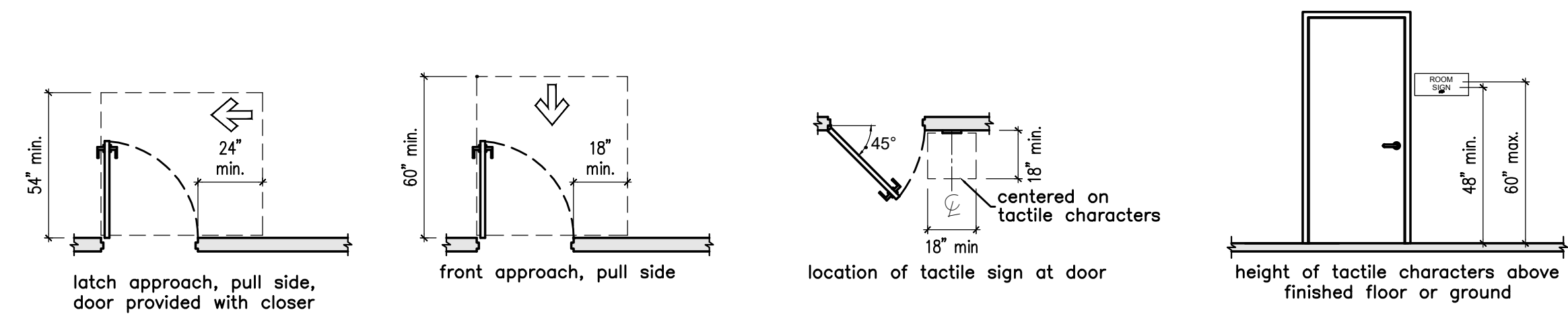
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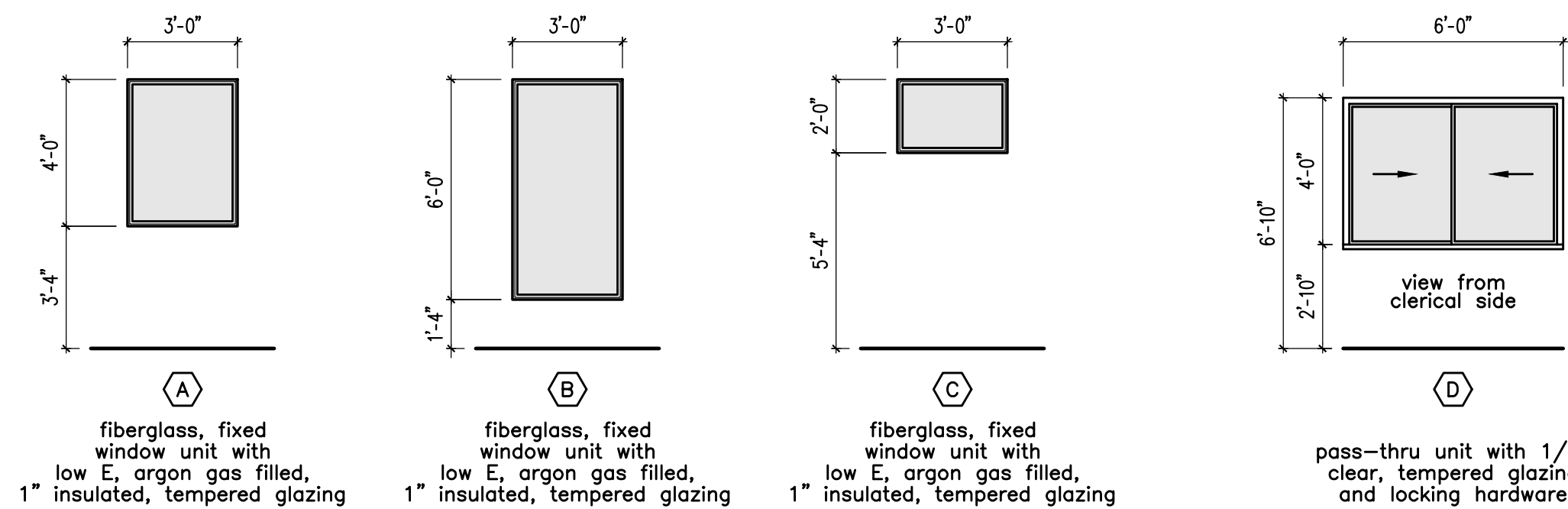
10-26-20
 WALL SECTIONS

A-3.2
 SHEET NO.



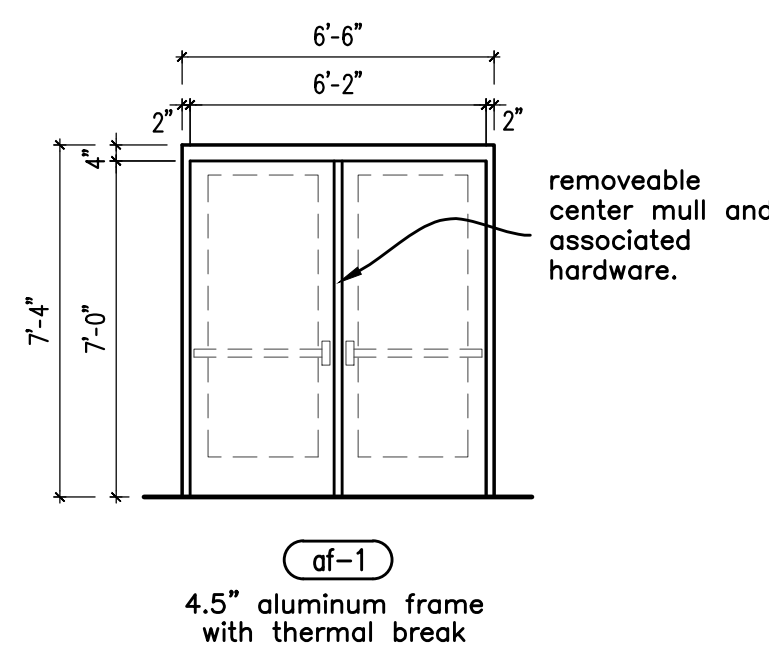
GENERAL DOOR DETAILS

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



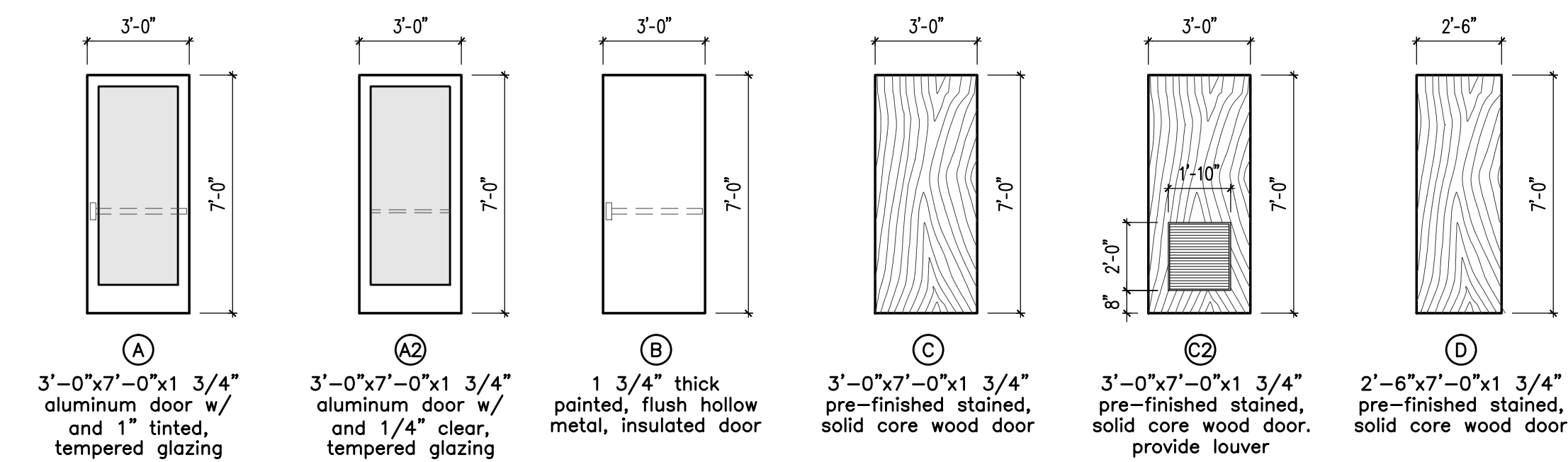
WINDOW ELEVATIONS

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



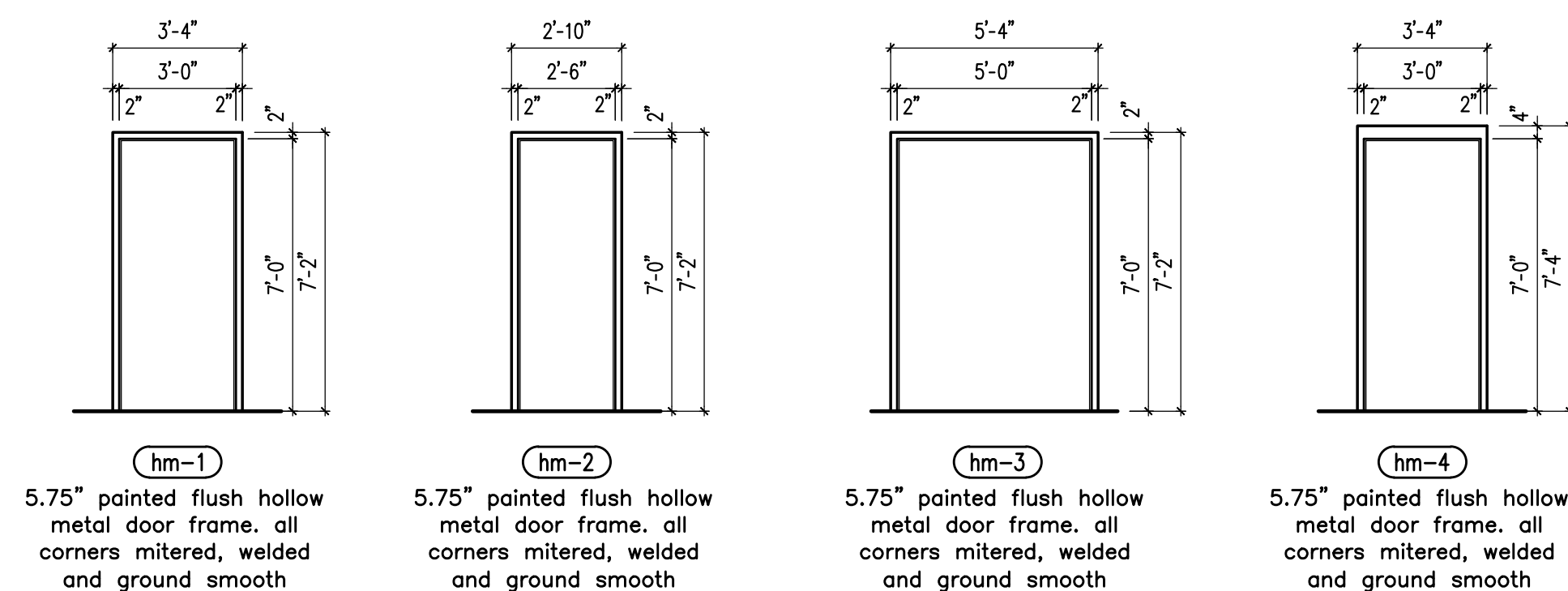
ALUMINUM FRAME ELEVATIONS

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



DOOR ELEVATIONS

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



FRAME ELEVATIONS

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

OPENING SCHEDULE

OPNG. NMBR.	DOOR						NOTES
	TYPE	NMBR	THRESH	FIRE RATING	FRAME TYPE	DOOR SIGN	
1	A	single	alum	-	af-1	NO	1. Provide door closer.
2	A2	single	alum	-	af-1	NO	2. Provide panic bar.
3	C	single	-	-	hm-1	YES	3. Aluminum Doors: Aluminum door manufacturer / supplier to provide door hardware - match existing.
4	C	single	-	-	hm-1	YES	4. Provide weatherstripping, sweep and rain drip.
5	C	single	-	-	hm-1	NO	5. Provide push bar - no locking hardware.
6	C	single	-	-	hm-1	NO	6. Door mark not used.
7	C	single	-	-	hm-1	YES	7. Provide center, removable mullion.
8	D	single	-	-	hm-2	YES	
9	C2	single	-	-	hm-1	YES	
10	C	single	-	-	hm-1	YES	
11	-	-	-	-	-	6	
12	B	single	alum	-	hm-4	NO	2
13	C	single	-	-	hm-1	YES	
14	C	single	-	-	hm-1	YES	
15	-	-	-	-	-	6	
16	C	single	-	-	hm-1	YES	
17	C	single	-	-	hm-1	YES	
18	C	single	-	-	hm-1	YES	
19	C	single	-	-	hm-1	YES	
20	C	single	-	-	hm-1	YES	
21	C	single	-	-	hm-1	YES	
22	C	single	-	-	hm-1	YES	
23	C	single	-	-	hm-1	YES	
24	B	single	alum	-	hm-4	NO	2
25	D	pair	-	-	hm-3	YES	
26	D	pair	-	-	hm-3	YES	
27	C	single	-	-	hm-1	YES	
28	C	single	-	-	hm-1	YES	
29	C	single	-	-	hm-1	NO	
30	C	single	-	-	hm-1	YES	
31	C	single	-	-	hm-1	YES	
32	C	single	-	-	hm-1	NO	
33	C	single	-	-	hm-1	YES	
34	C	single	-	-	hm-1	YES	
35	C	single	-	-	hm-1	YES	

GENERAL NOTES

A. Obtain rough opening size from door manufacturer.

WINDOW SCHEDULE

OPNG. NMBR.	SIZE			TYPE	SEE NOTE(S)
	WIDTH	HEIGHT			
A	3'-0"	4'-0"		fiberglass	1
B	3'-0"	6'-0"		fiberglass	1
C	3'-0"	2'-0"		fiberglass	1
D	6'-0"	4'-0"		aluminum	1

NOTES:

1. Manufacturer to provide rough opening size.

ROOM FINISH SCHEDULE

ROOM NAME/NUMBER	FLOOR	BASE	WALLS	CEILING HEIGHT	CEILING	ROOM FINISH NOTE(S)
ENTRY VESTIBULE 100		polished concrete	rubber	painted gypsum board	8'-11.5"	painted gypsum board
WAITING 101		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
WOMEN 102		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board 1
MEN 103		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board 1
CONFERENCE 104		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
JANITOR 105		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board 1
BREAK 106		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
MECHANICAL 107		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board 1
STAFF RESTROOM 108		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board 1
ENVIRON. SPECIALIST 109		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
OFFICE 110		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
FILES / STORAGE 112		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
ADMINISTRATOR OFFICE 113		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
CLERICAL 114		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
CLINICAL STOR. OFFICE 115		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
CLINIC COORD. OFFICE 116		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
ELECTRICAL / STORAGE 117		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
EXAM/OFFICE 118		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
EXAM 119		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
MECHANICAL 120		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board 1
WH 121		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board 1
PRE-EXAM 122		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
EXAM 123		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
EXAM 124		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
RESTROOM 125		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board 1
STORAGE 126		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
TESTING 127		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
HALL 1		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
HALL 2		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
HALL 3		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
CORRIDOR C2		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
CORRIDOR C3		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board
CORRIDOR C4		polished concrete	rubber	painted gypsum board	8'-10.5"	painted gypsum board

ROOM FINISH NOTES:

1. Provide moisture-resistant gyp board at walls and ceiling.

GENERAL NOTES:

1. Refer to reflected ceiling plans for ceiling heights and furr down / soffit heights.

PROJECT NO. 190807
DATE: 10-26-20
DRAWN BY: MS

REVISION: DATE:

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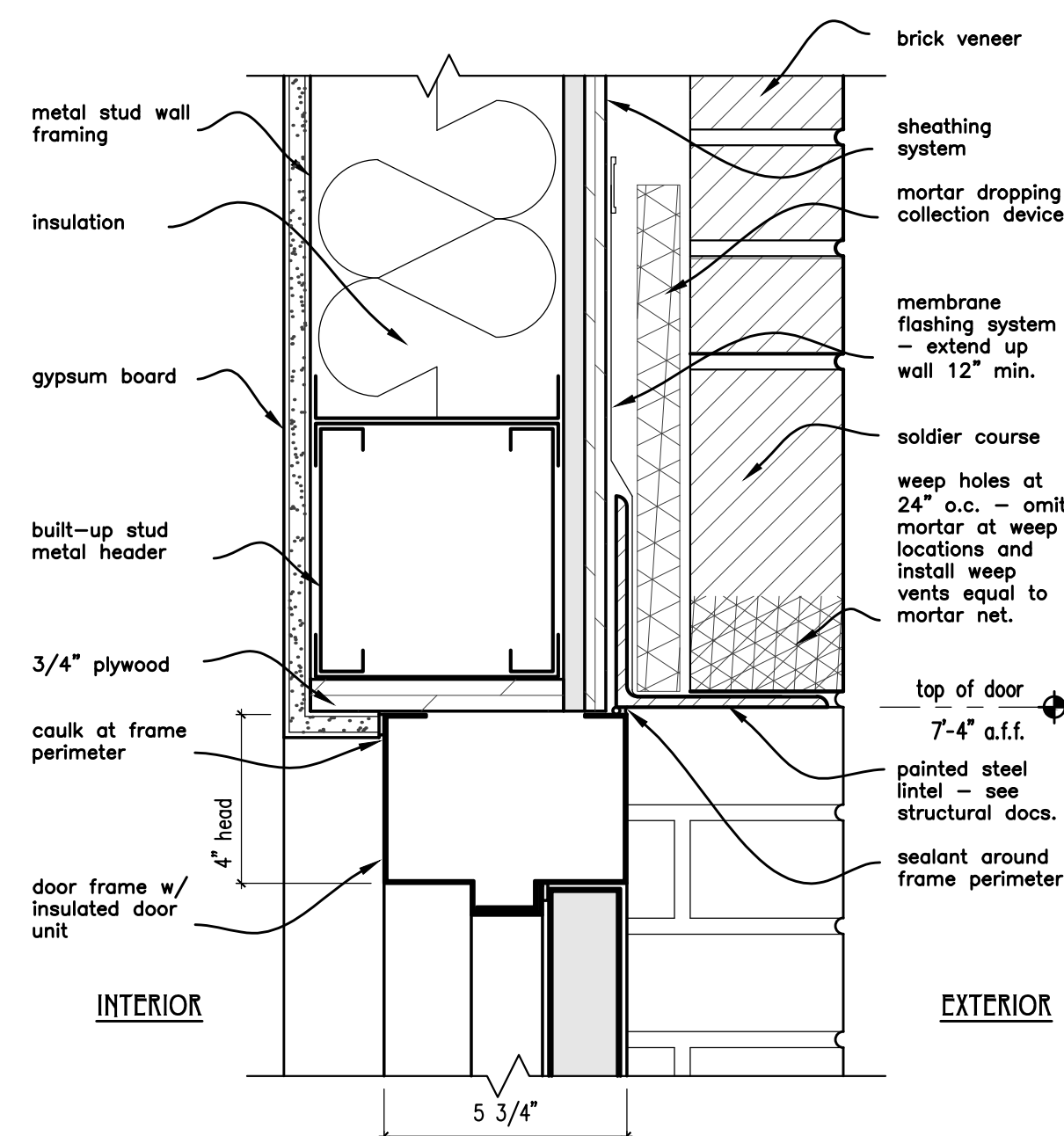


10-26-20

SCHEDULES AND DETAILS

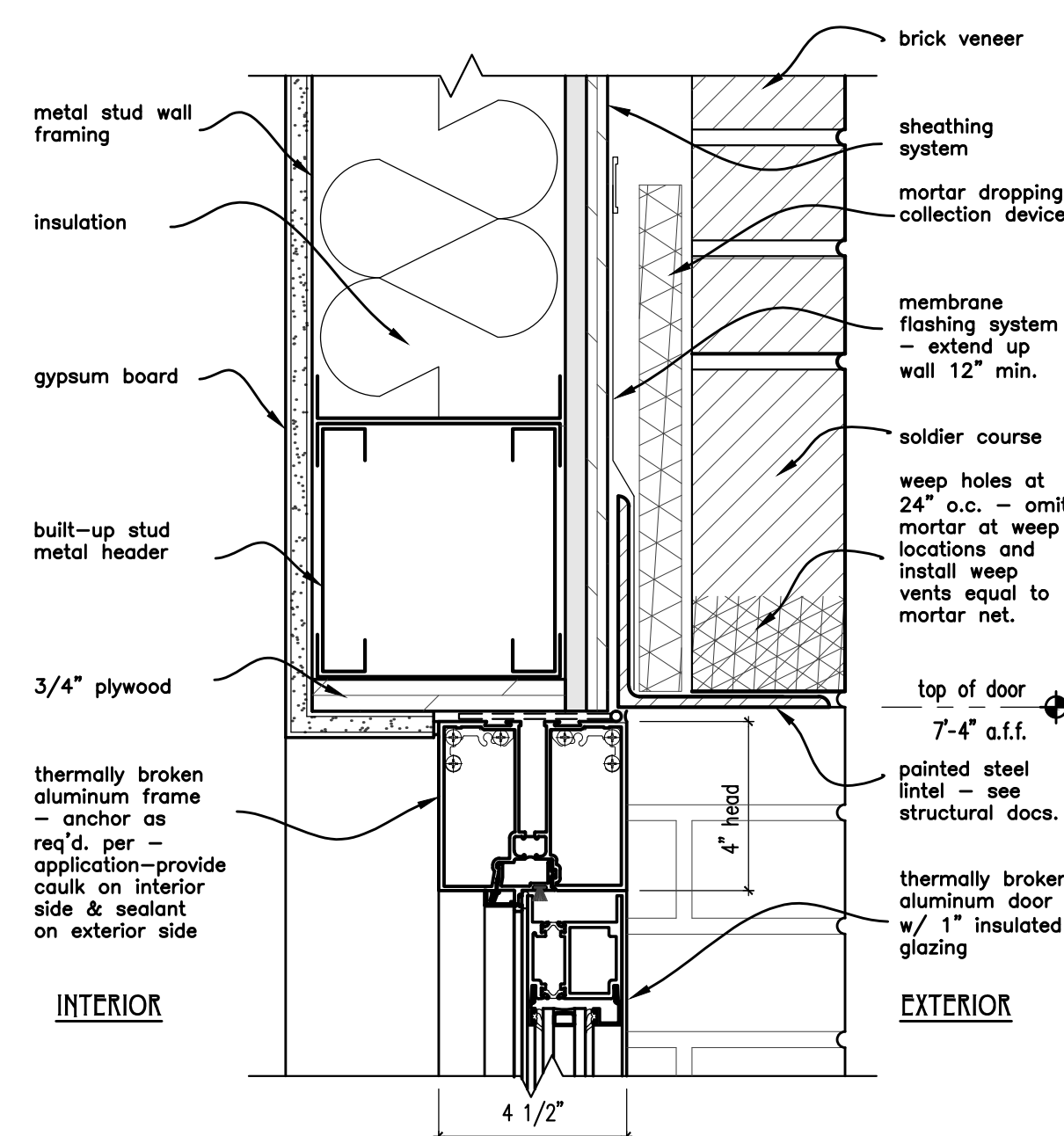
A-4.1

SHEET NO.



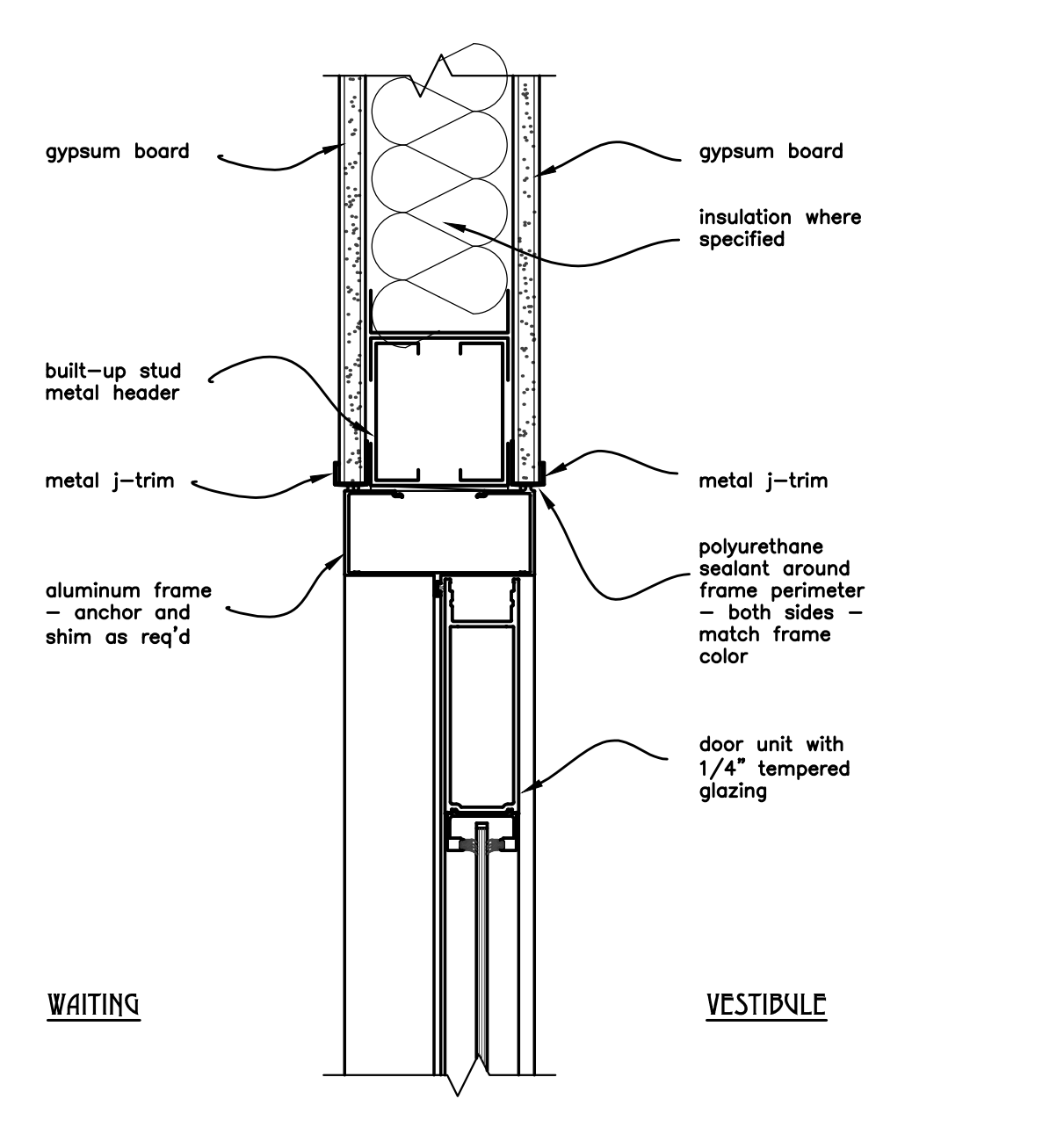
HEAD DETAIL

DOOR NOS: 12 AND 24



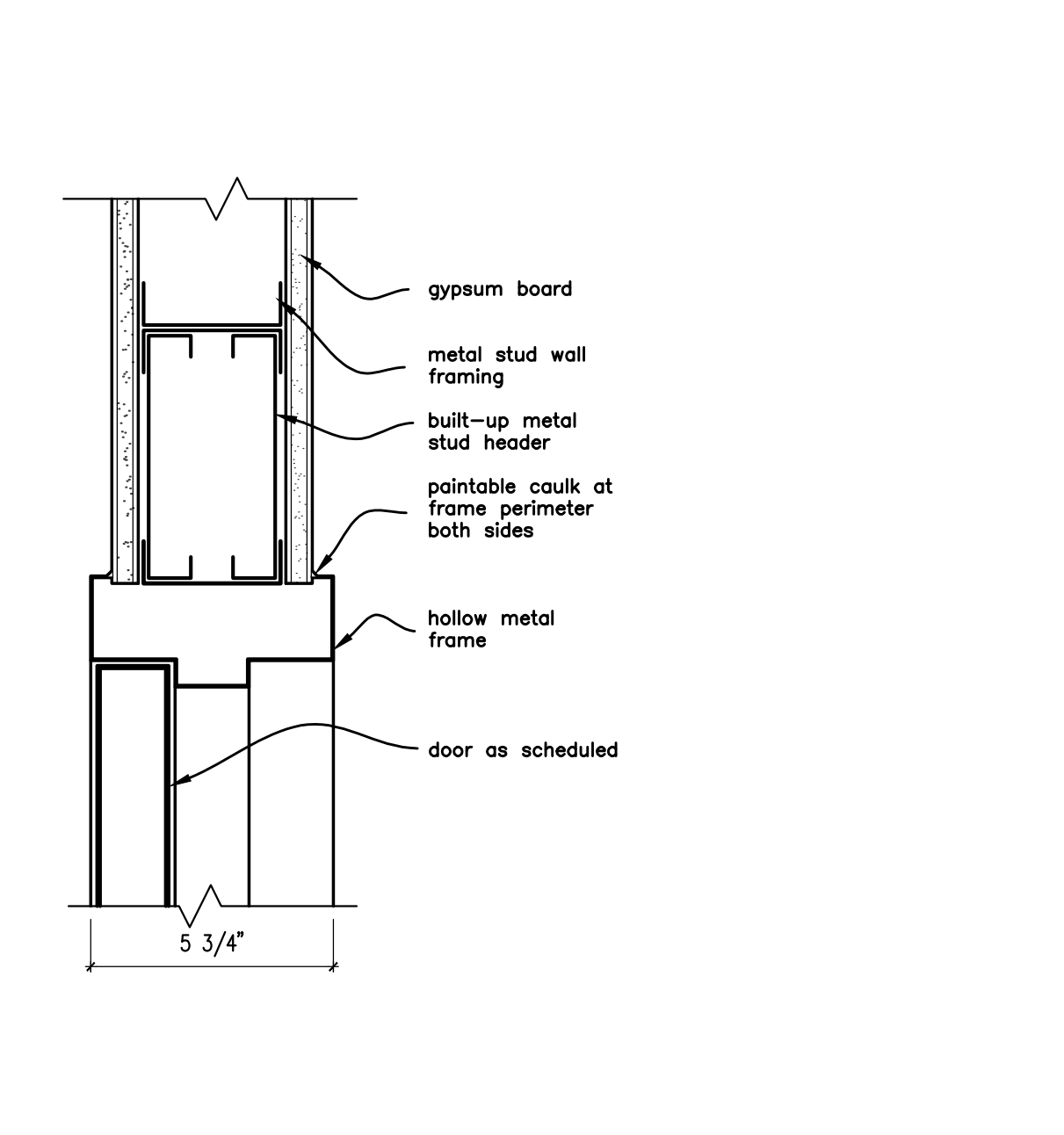
HEAD DETAIL

DOOR NO: 1



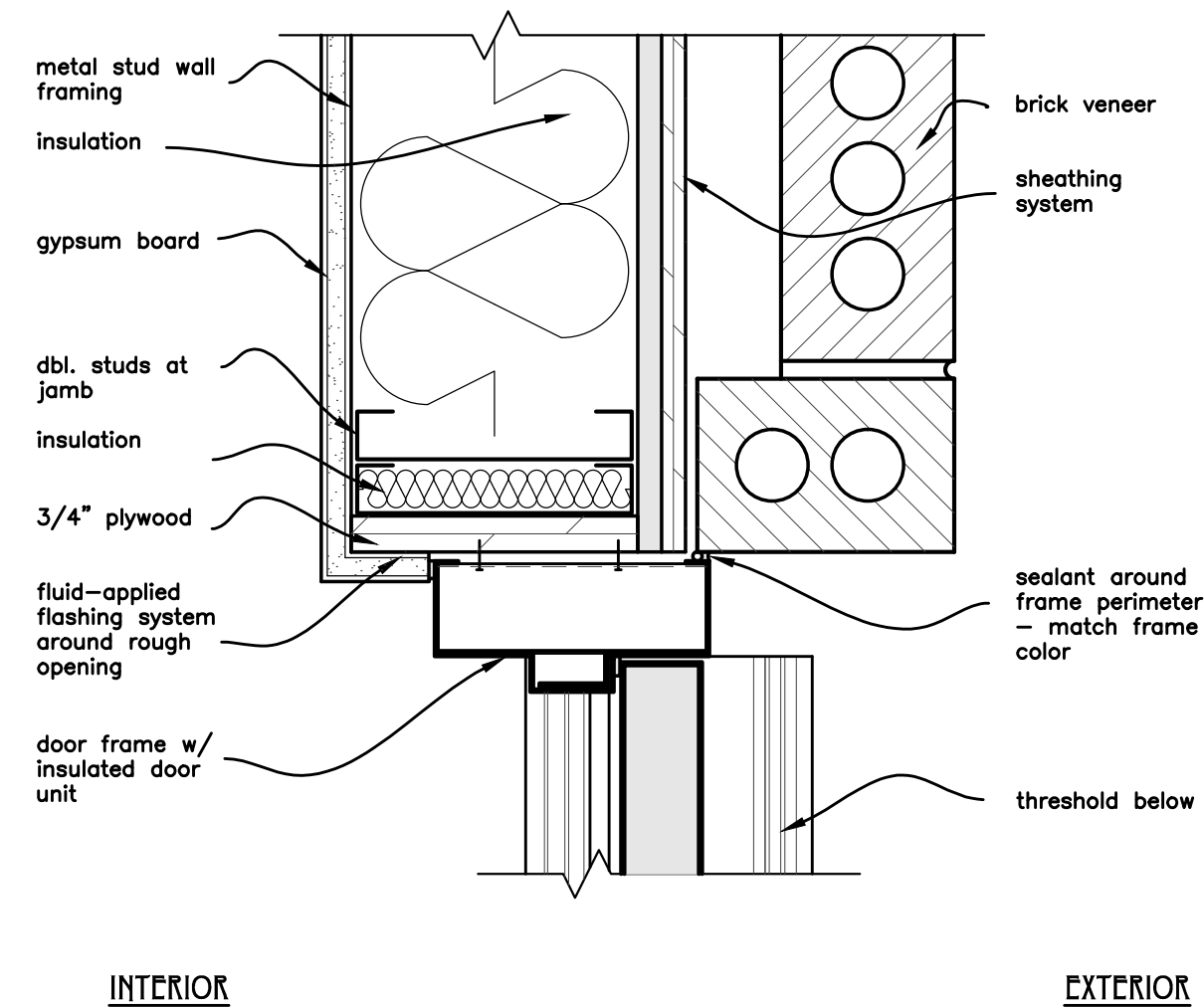
HEAD DETAIL

DOOR NO: 2



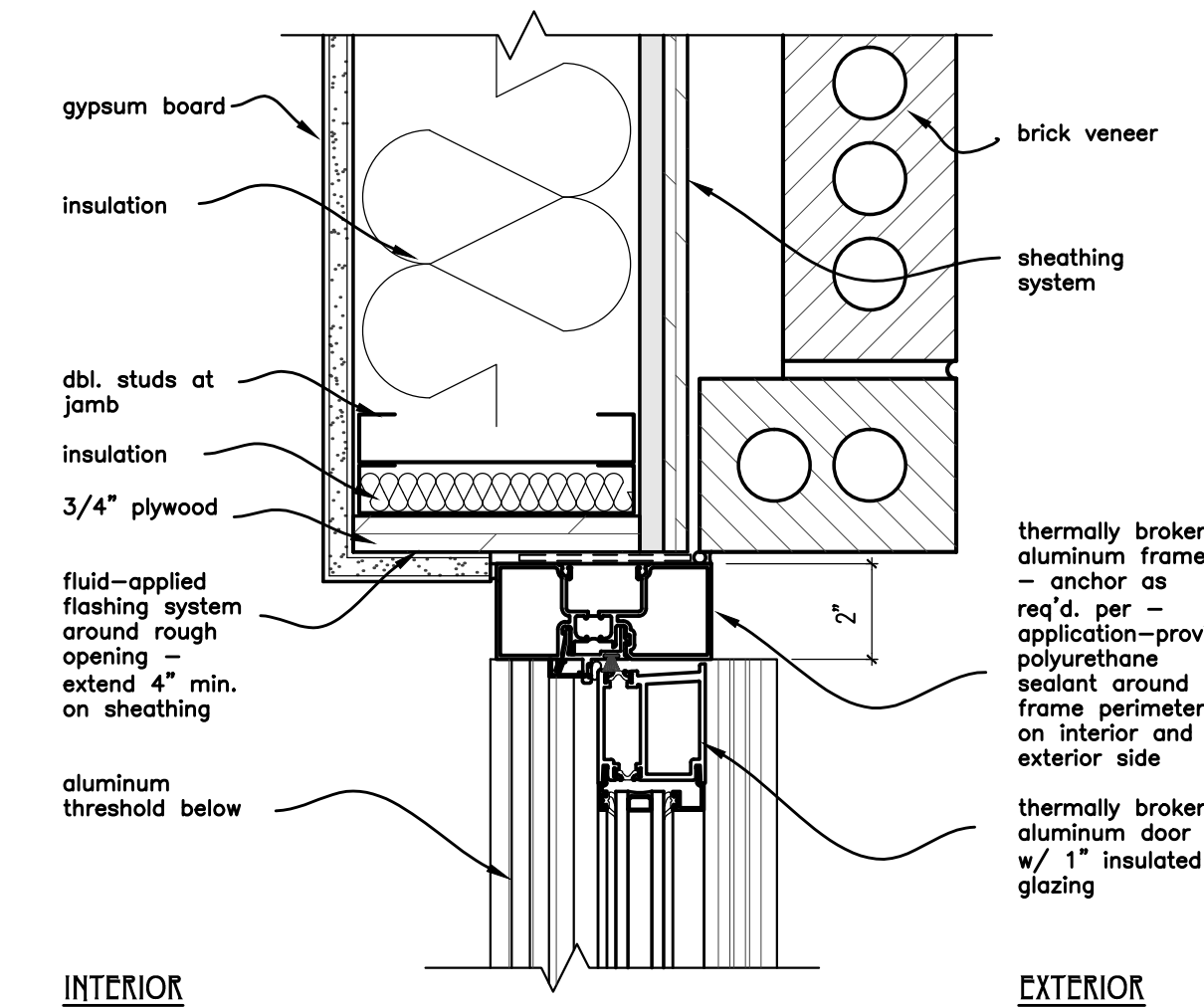
HEAD DETAIL AT TYPICAL HOLLOW METAL FRAME

DOOR NOS: 3-10, 13, 14, 16-23, 25-35



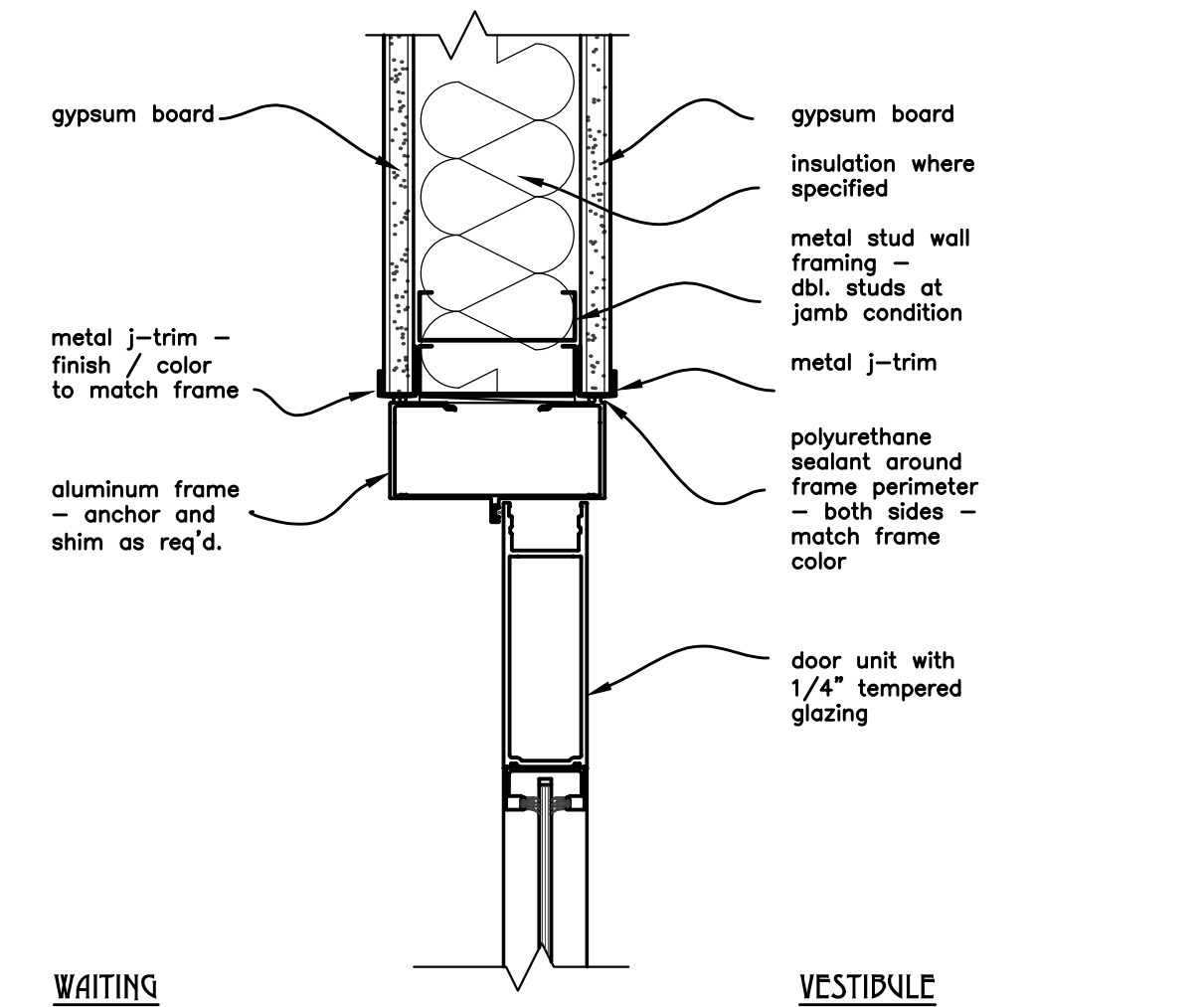
JAMB DETAIL

DOOR NOS: 12 AND 24



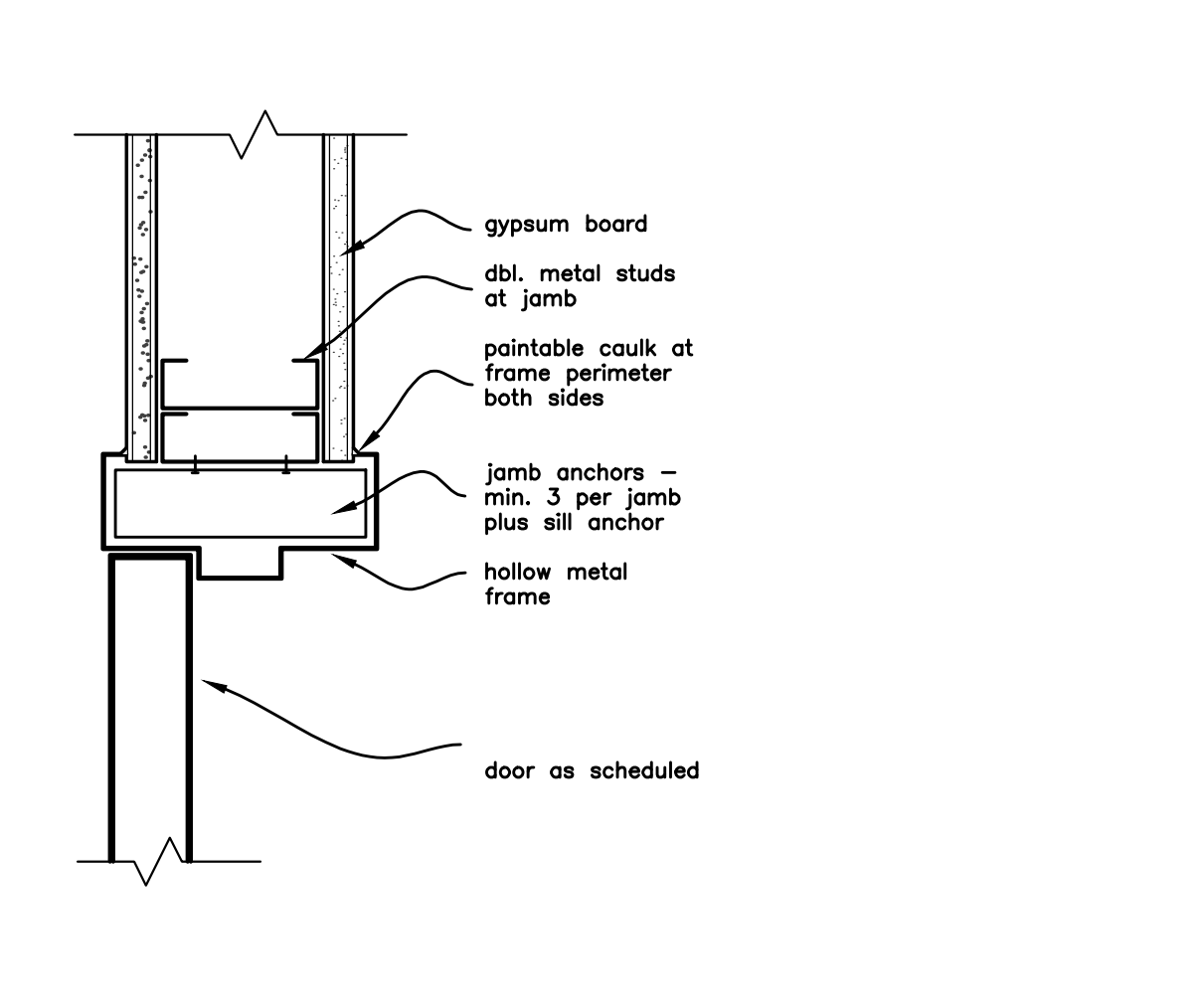
JAMB DETAIL

DOOR NO: 1



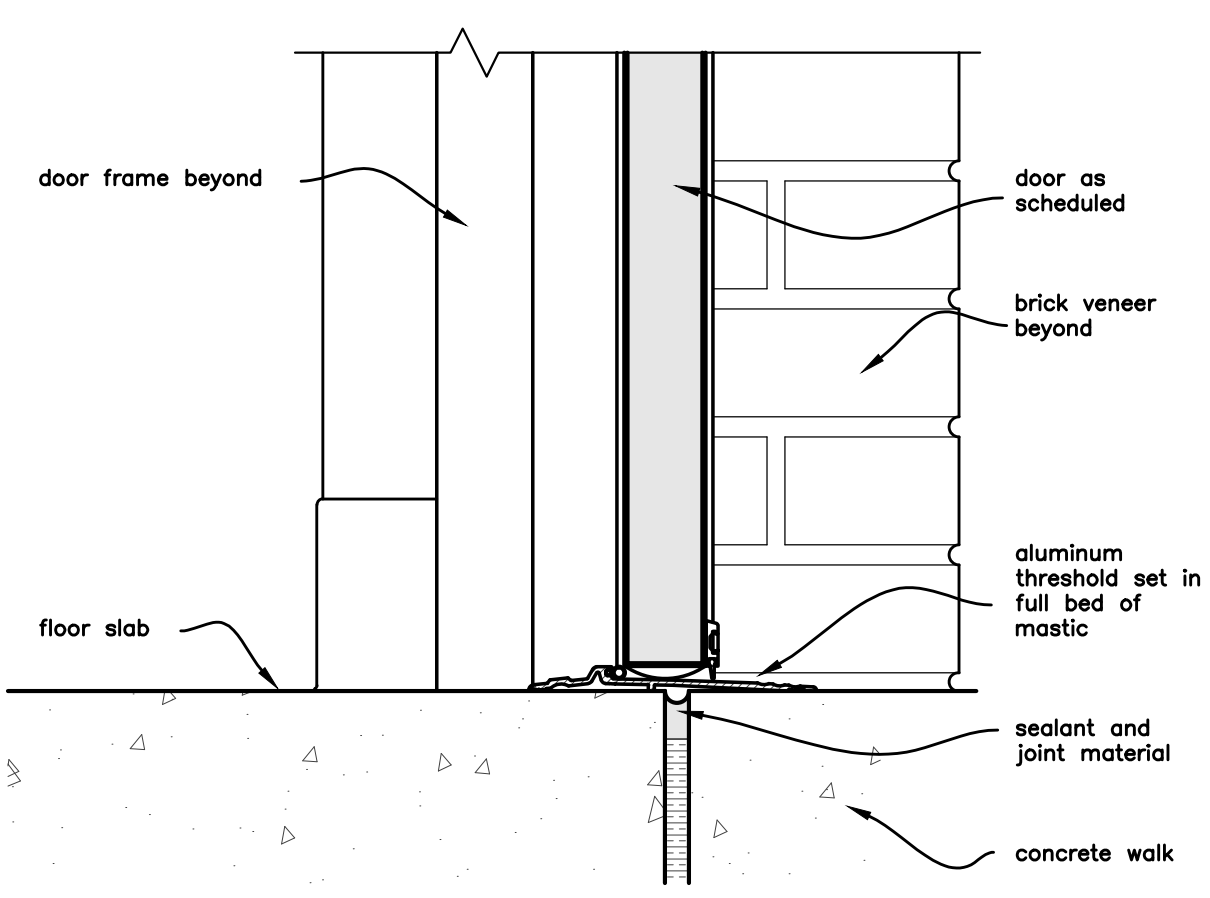
JAMB DETAIL

DOOR NO: 2



JAMB DETAIL

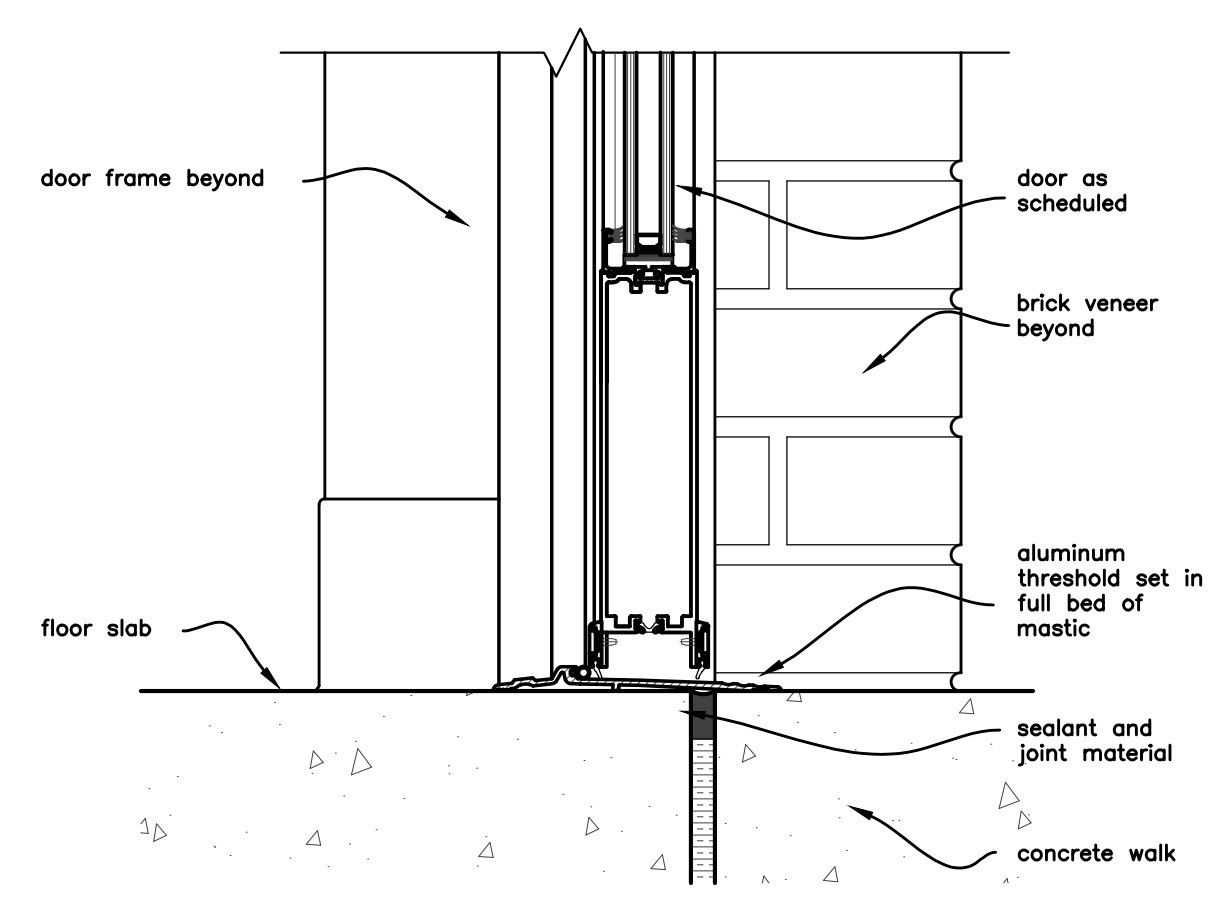
DOOR NOS: 3-10, 13, 14, 16-23, 25-35



THRESHOLD DETAIL

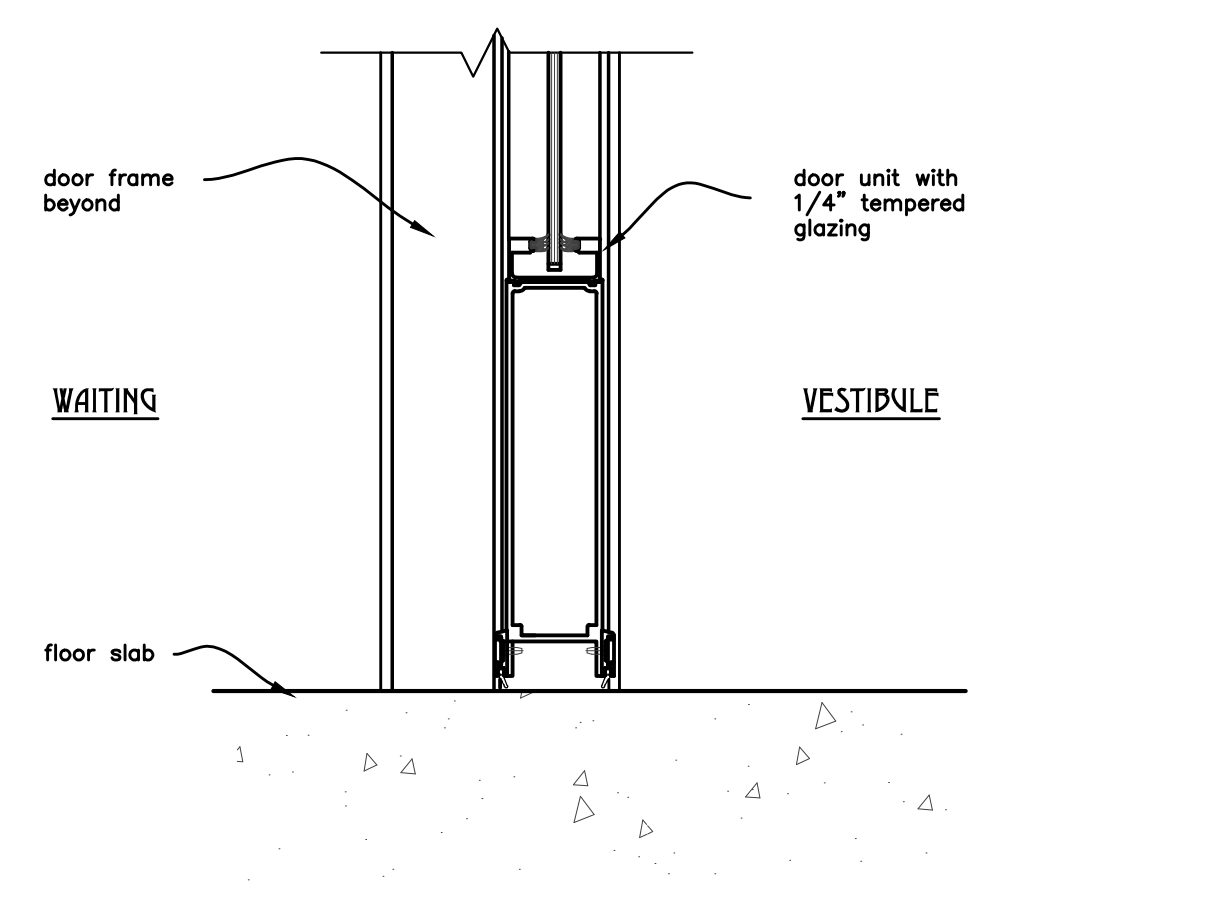
DOOR NOS: 12 AND 24

DOOR DETAILS



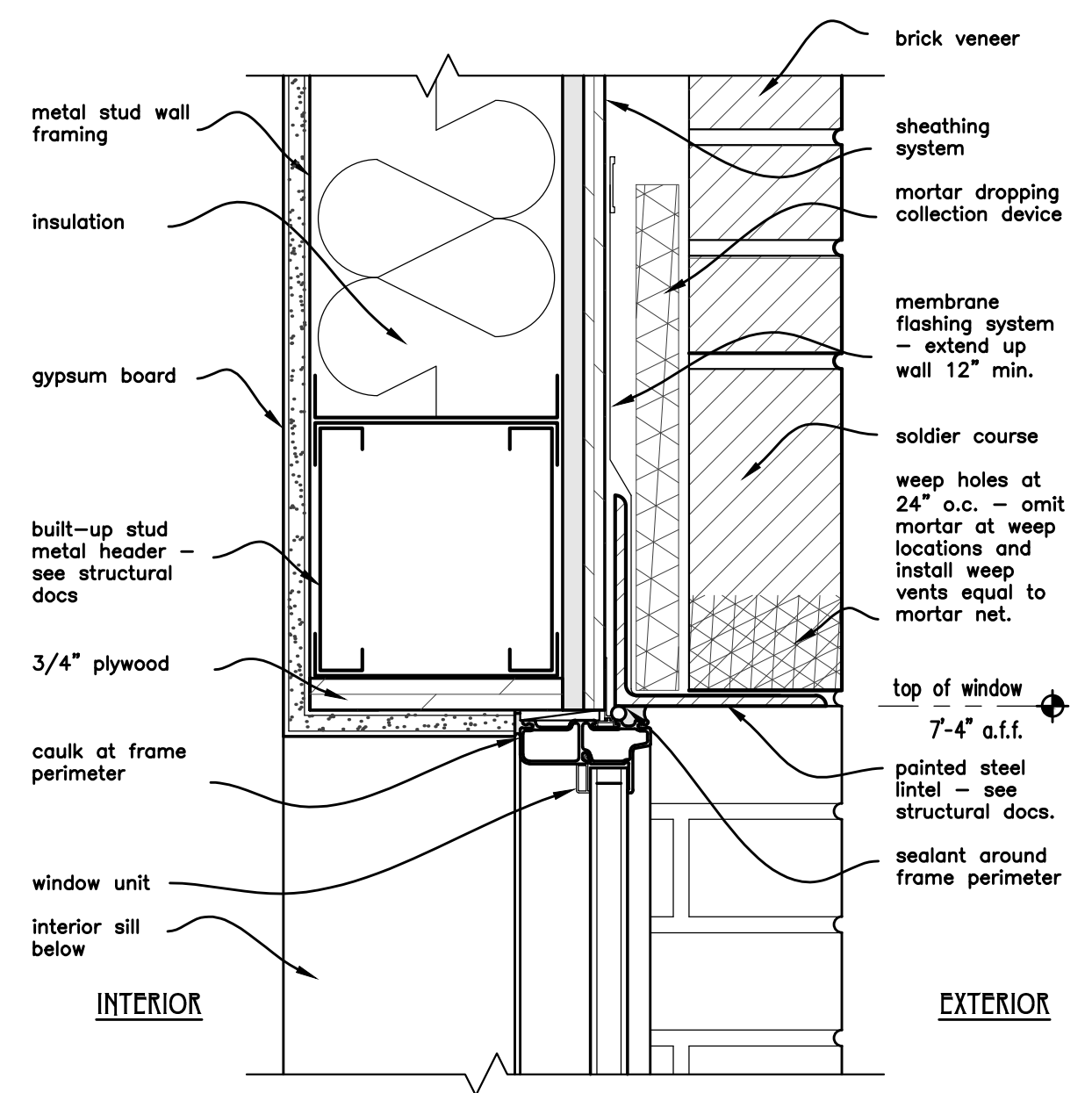
THRESHOLD DETAIL

DOOR NO: 1



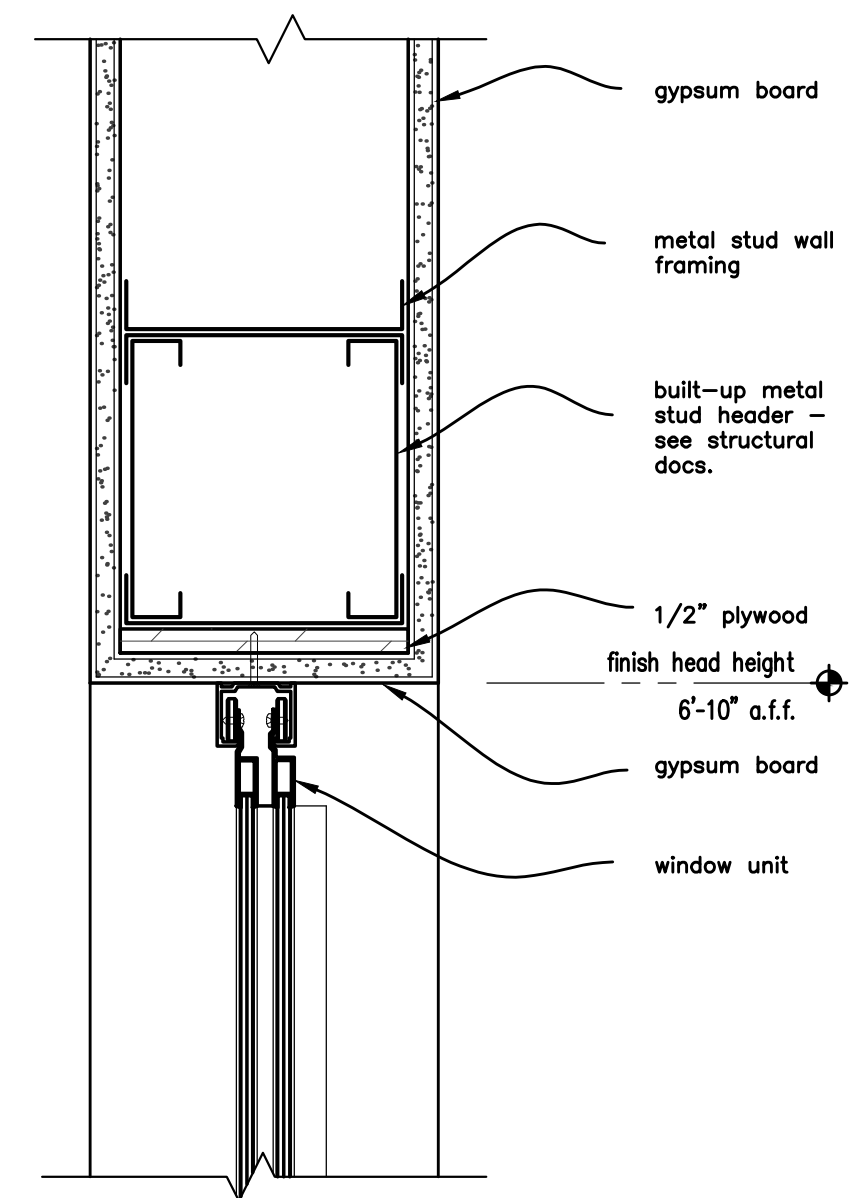
THRESHOLD DETAIL

DOOR NO: 2



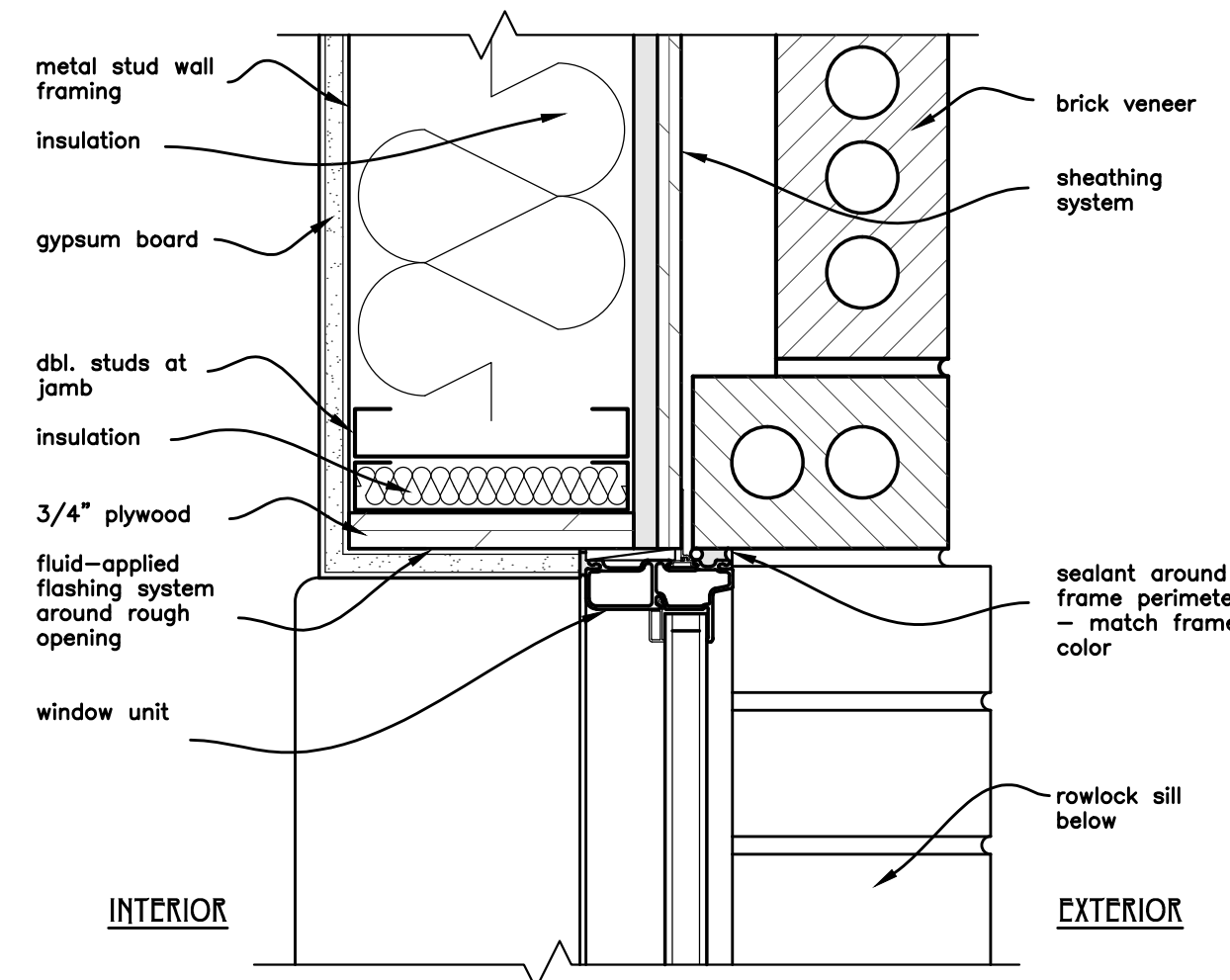
HEAD DETAIL

1
 WINDOWS: A, B, C



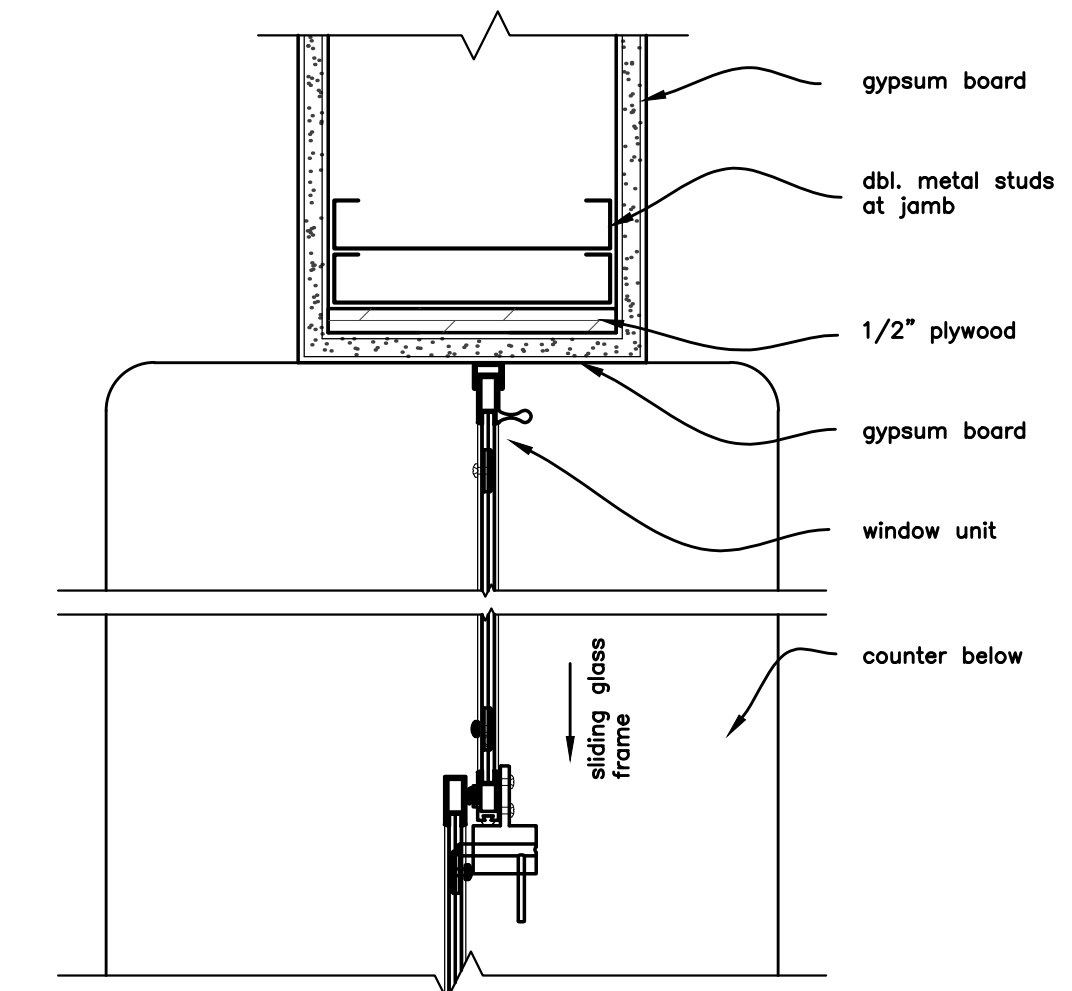
HEAD DETAIL

4
 WINDOW: D



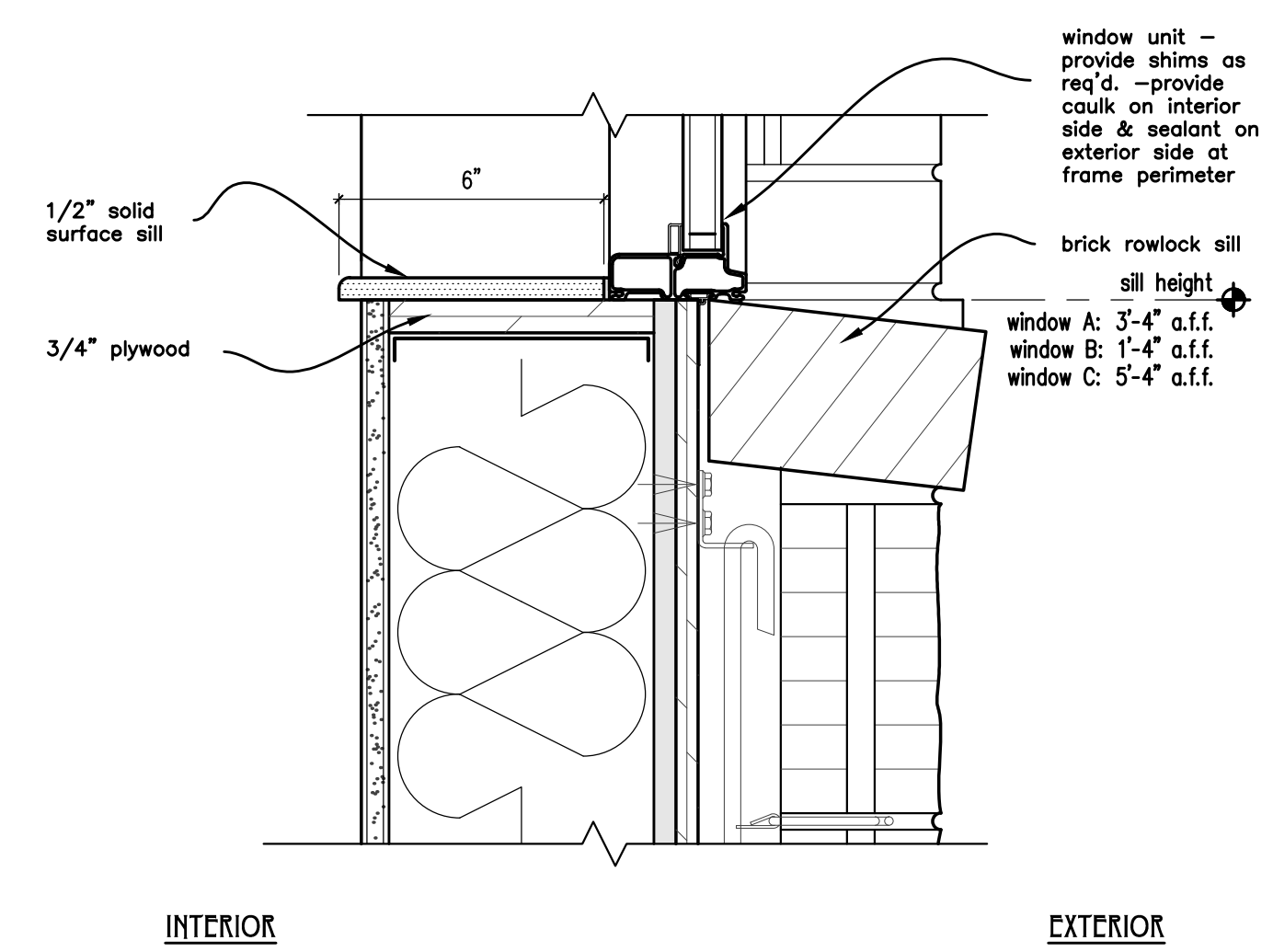
JAMB DETAIL

2
 WINDOWS: A, B, C



JAMB DETAIL

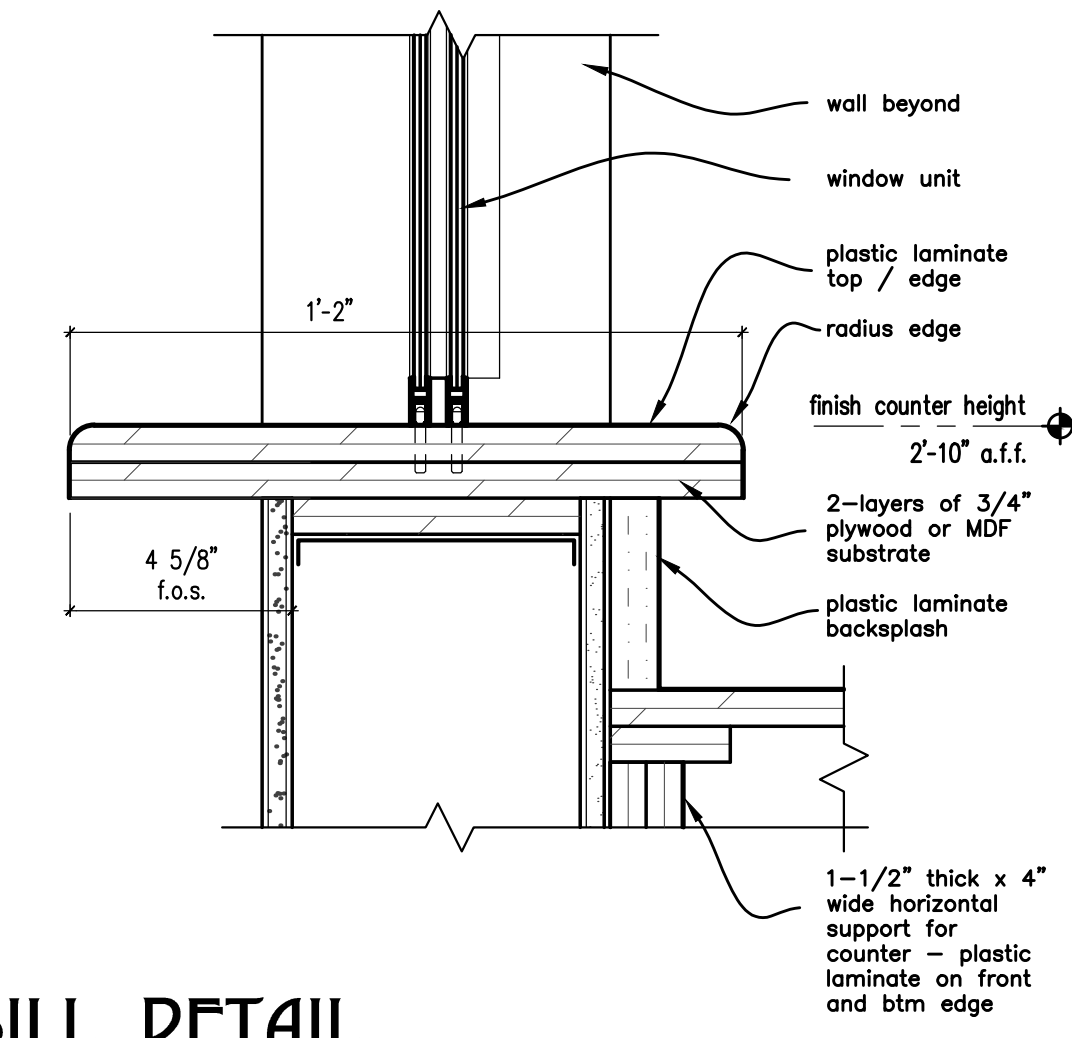
5
 WINDOW: D



SILL DETAIL

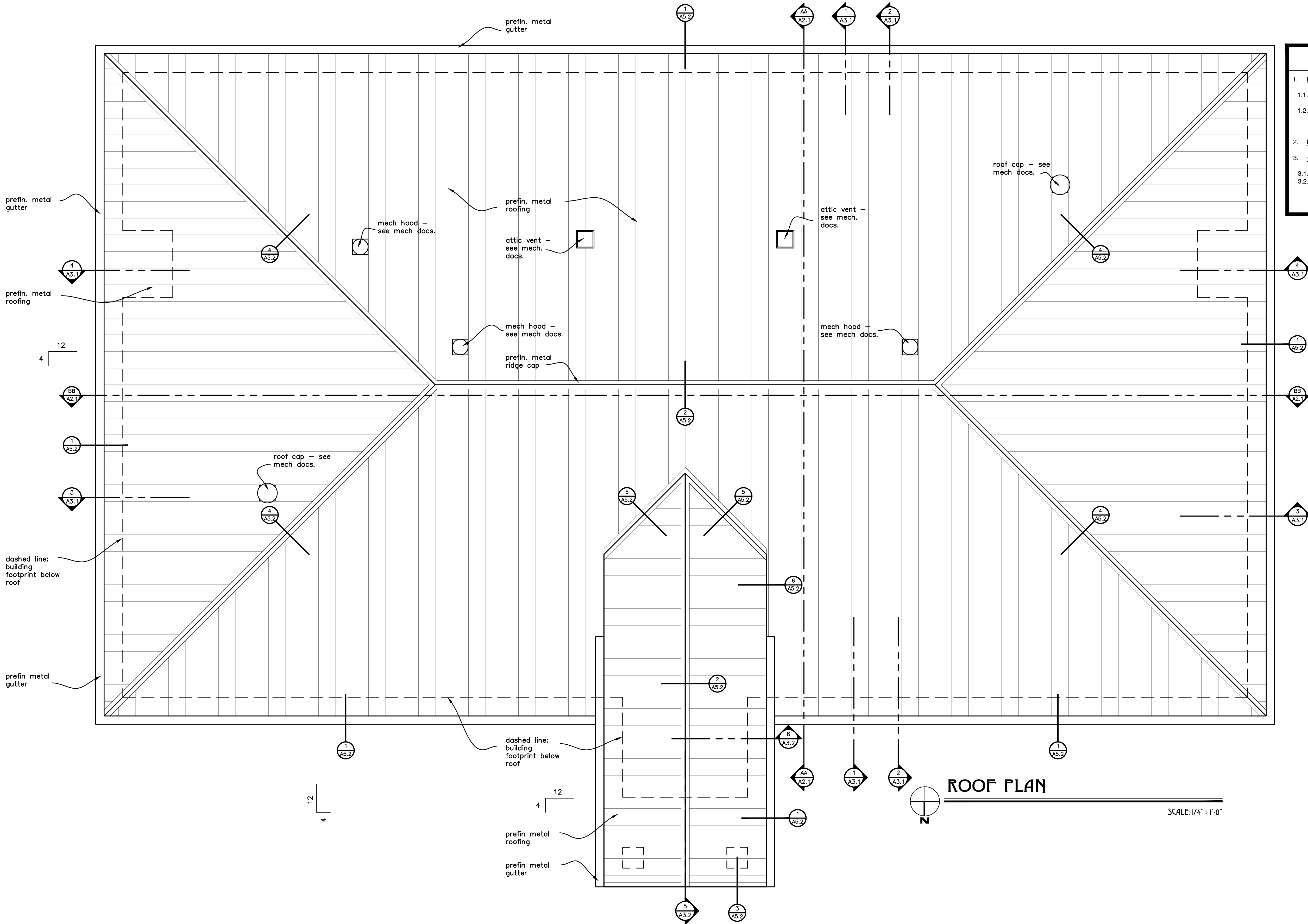
3
 WINDOWS: A, B, C

WINDOW DETAILS



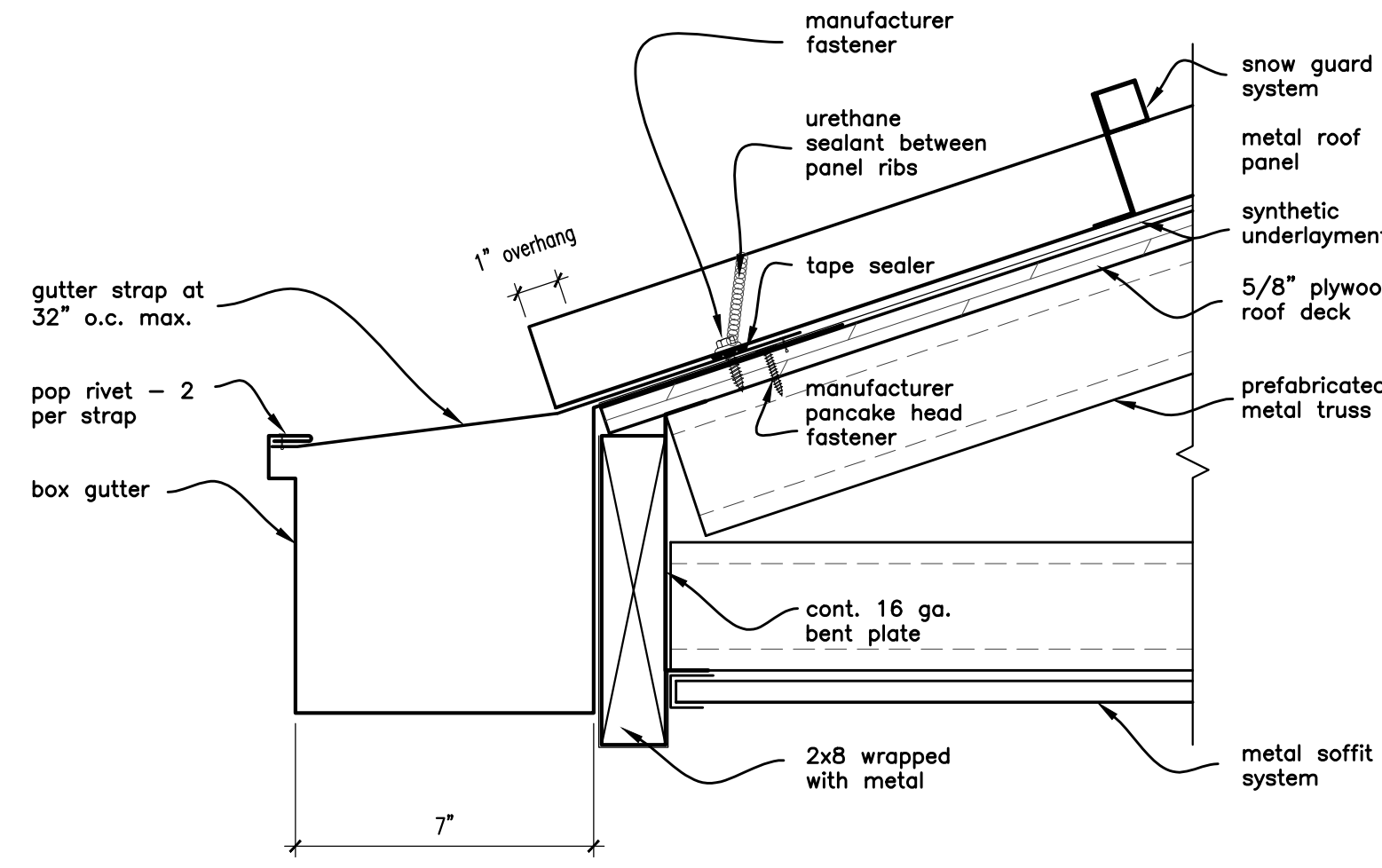
SILL DETAIL

6
 WINDOW: D



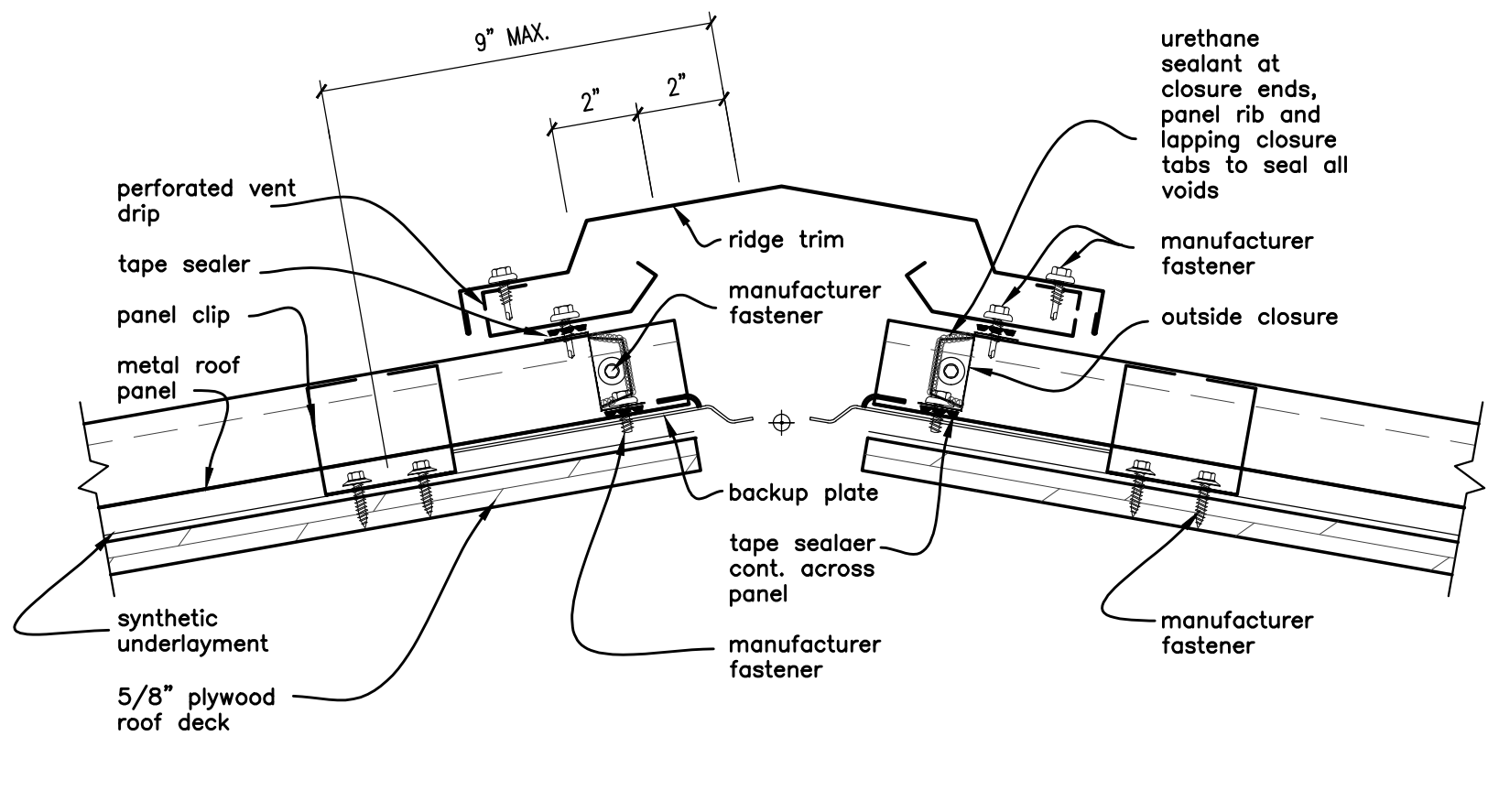
GENERAL NOTES

- ROOF PENETRATIONS**
 - 1.1. Refer to mechanical and plumbing documents for roof penetration locations and devices.
 - 1.2. Provide proper flashings and devices for all roof penetrations. Install an ultraviolet resistant EPDM roof jack around all pipe penetrations. Seal as required.
- ROOF SLOPE** - See roof plan for roof slopes.
- GUTTERS AND DOWNSPOUTS**
 - 3.1. Provide gutters and downspouts at all eave conditions.
 - 3.2. Connect downspouts to subsurface drainage system. See civil documents.



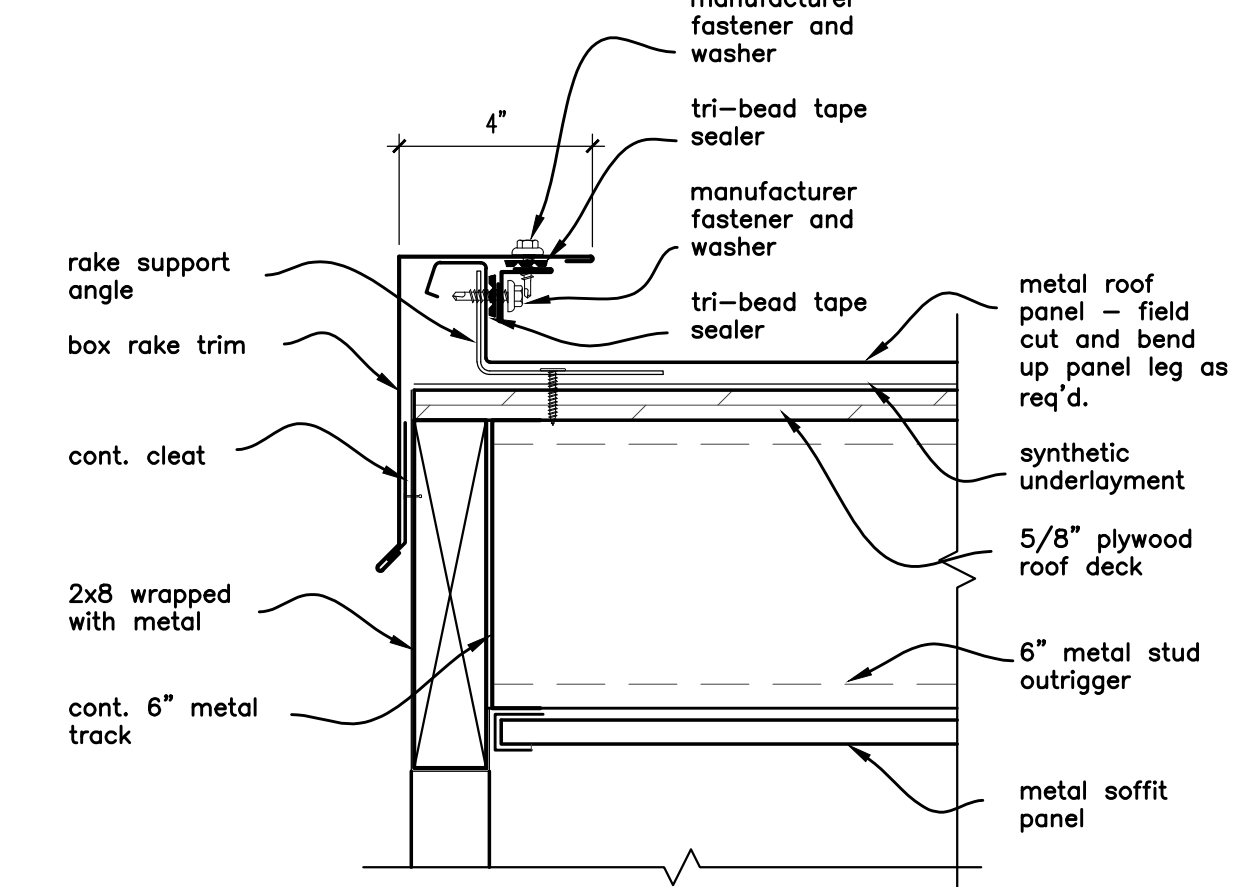
EAVE DETAIL

1 NOT TO SCALE



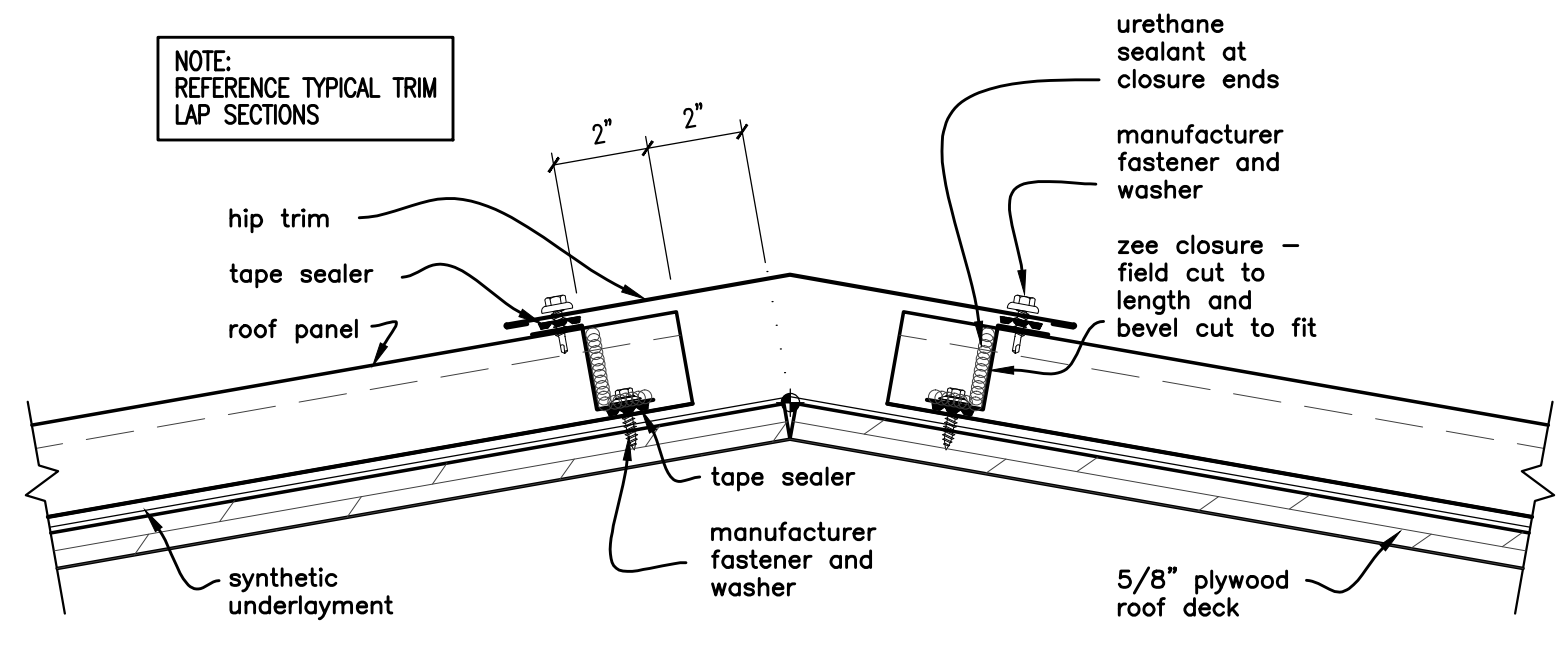
RIDGE DETAIL

2 NOT TO SCALE



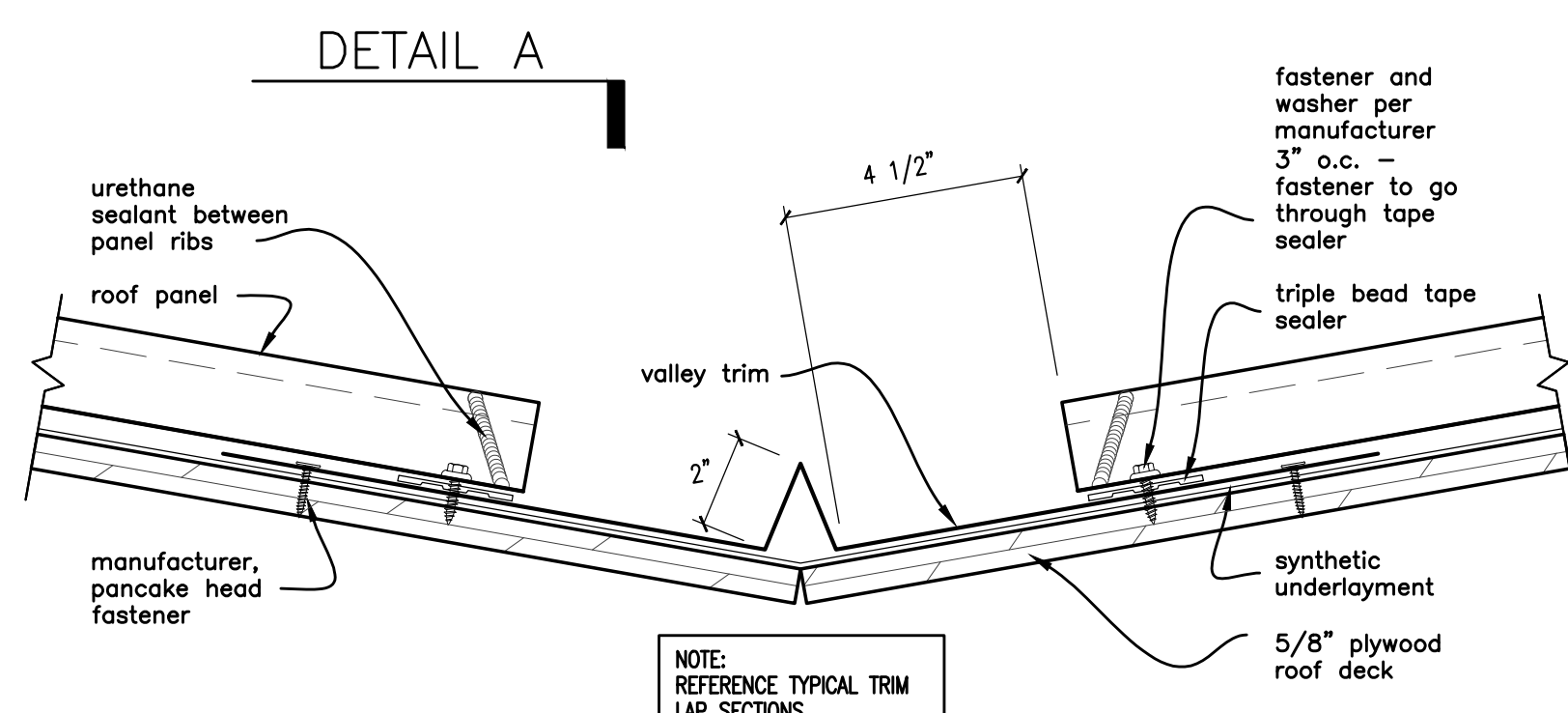
RAKE DETAIL

3 NOT TO SCALE



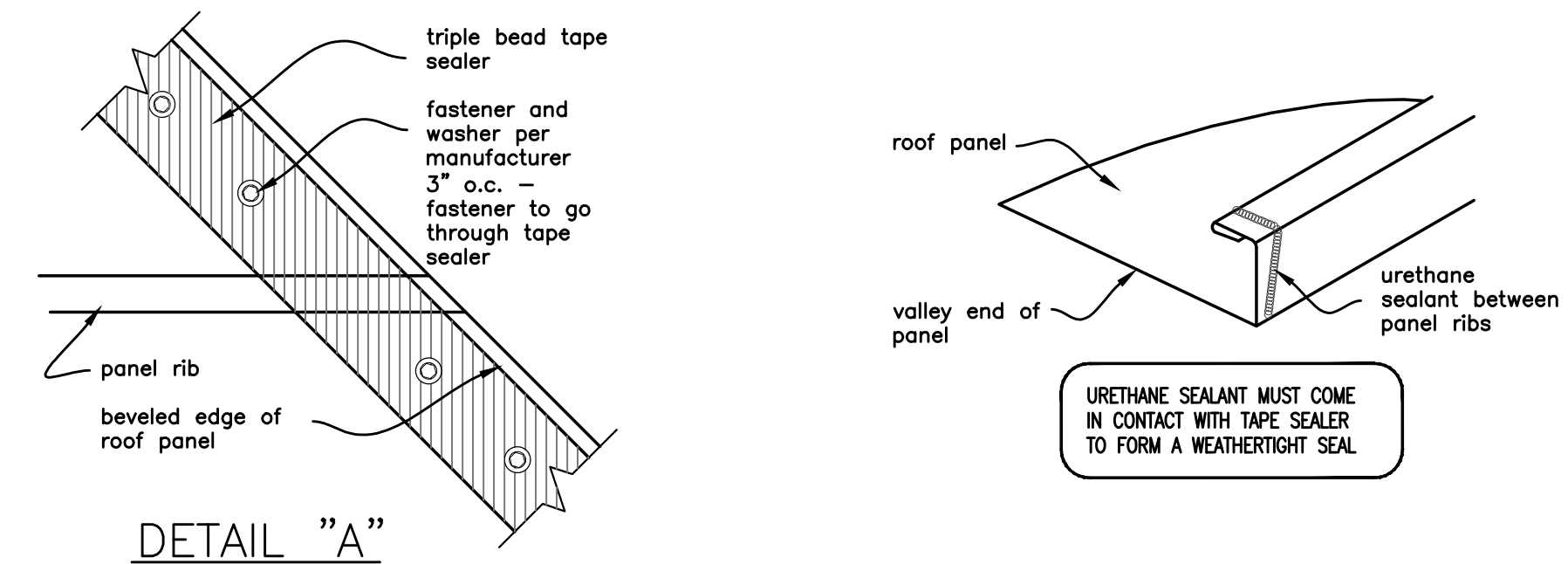
HIP DETAIL

4 NOT TO SCALE

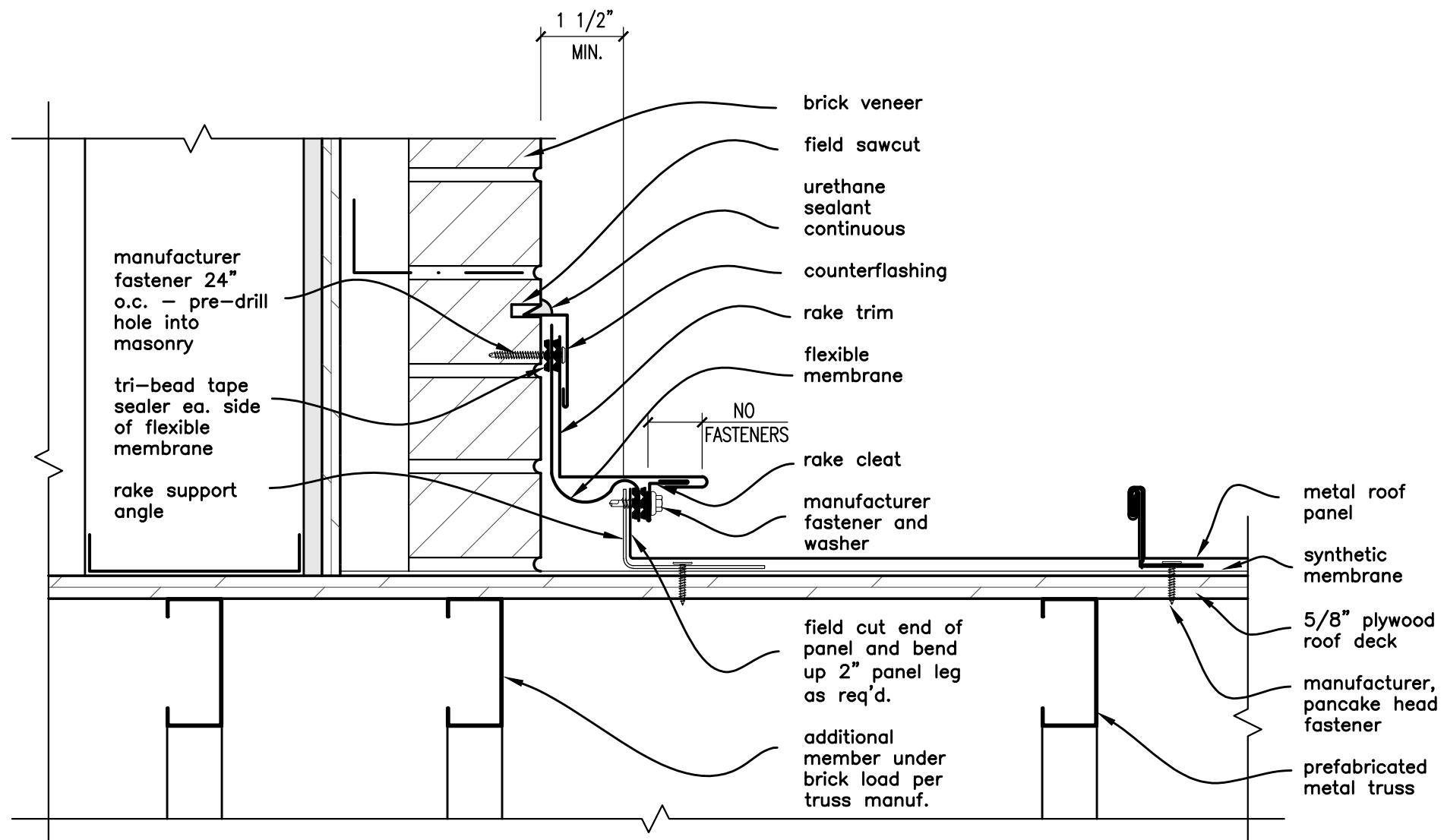


VALLEY DETAIL

5 NOT TO SCALE

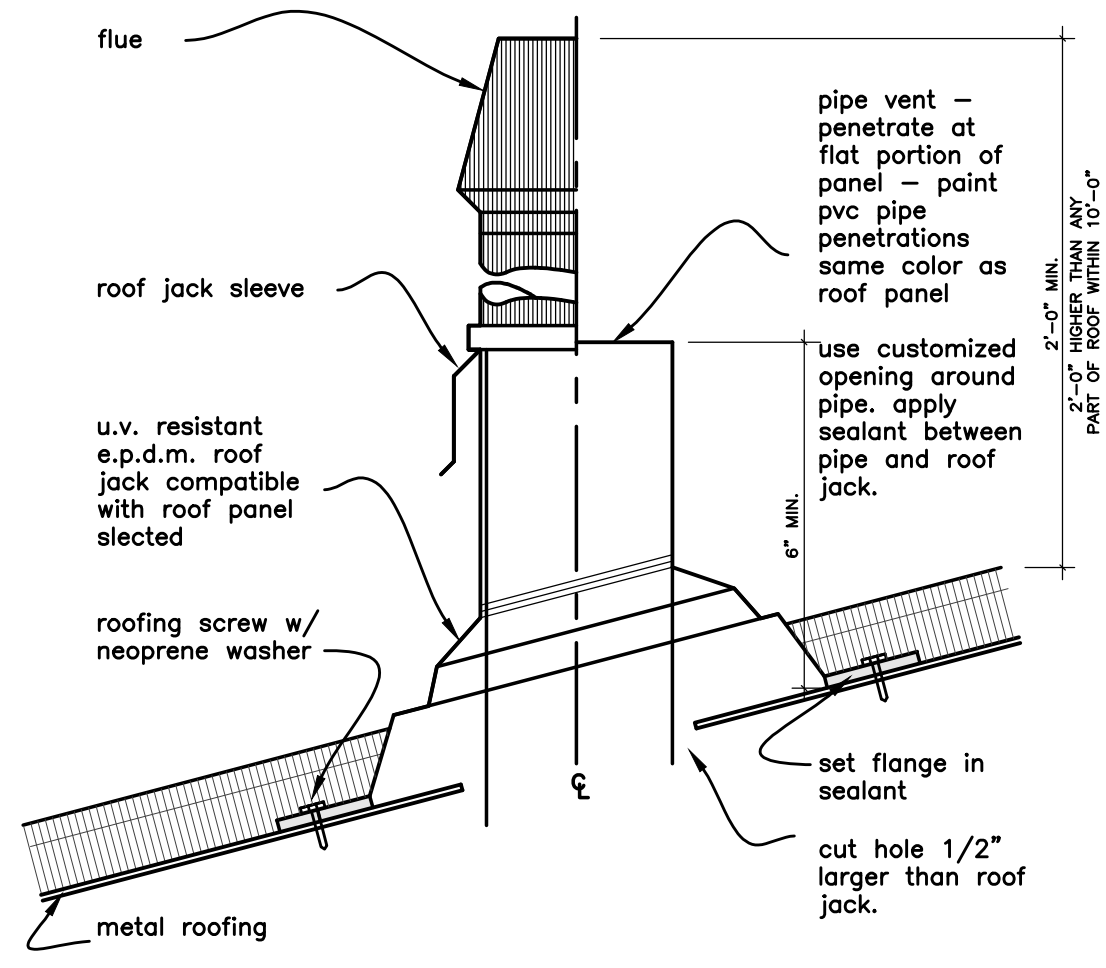


DETAIL "A"



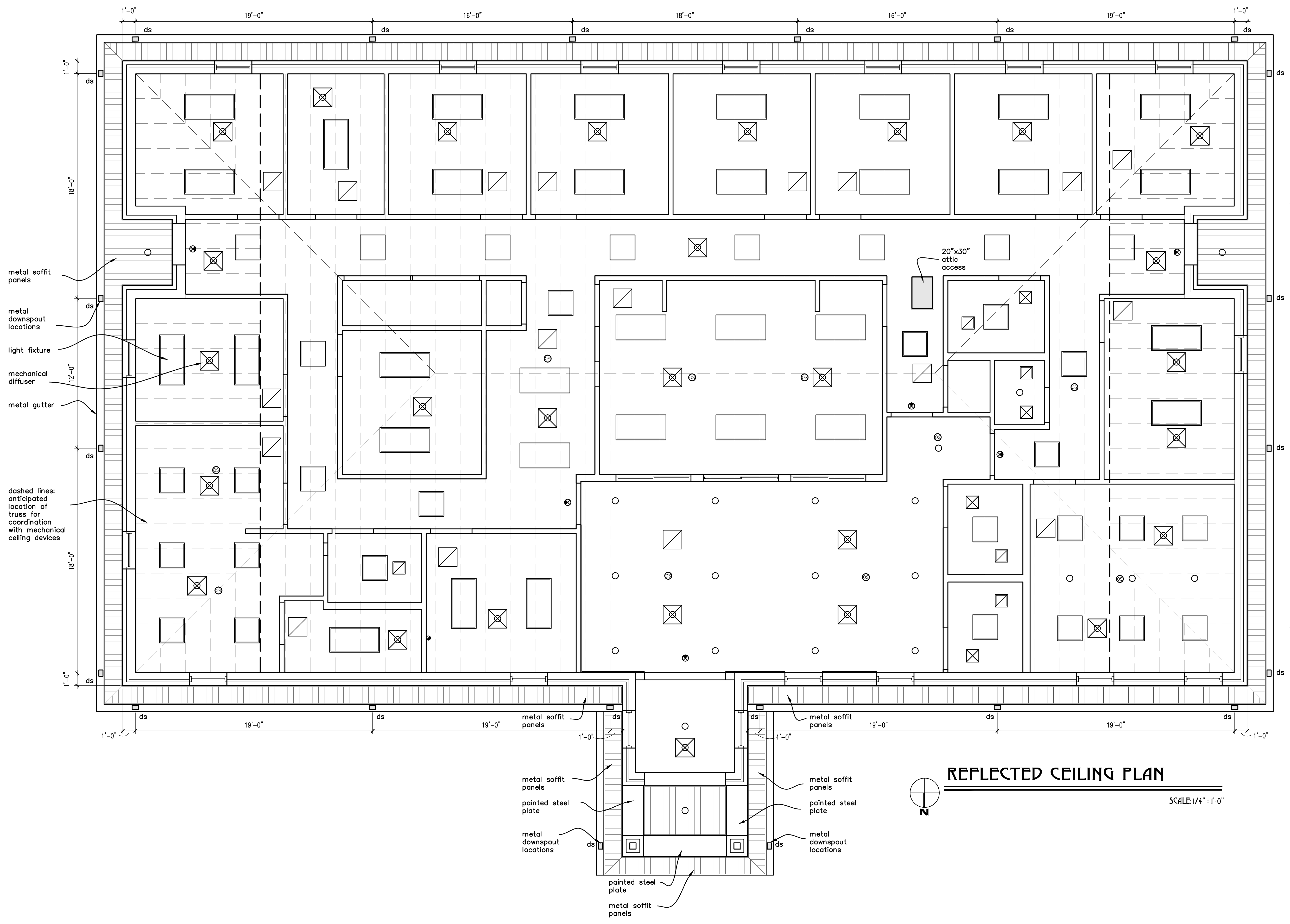
TRANSITION DETAIL

6 NOT TO SCALE



VENT / FLUE DETAIL

7 NOT TO SCALE



NOTES

- CEILING DEVICES**
 Refer to mechanical and electrical plans for all ceiling mounted devices. Notify the architect immediately if discrepancies exist between engineering and architectural layouts. The location of ceiling devices on the architectural reflected ceiling plan may differ slightly from the engineering drawings in an effort to coordinate the location of devices between all engineering disciplines.
- PREFABRICATED TRUSSES**
 Anticipated truss locations are indicated with dashed lines. Coordinate recessed ceiling devices with truss locations.

SYMBOLS

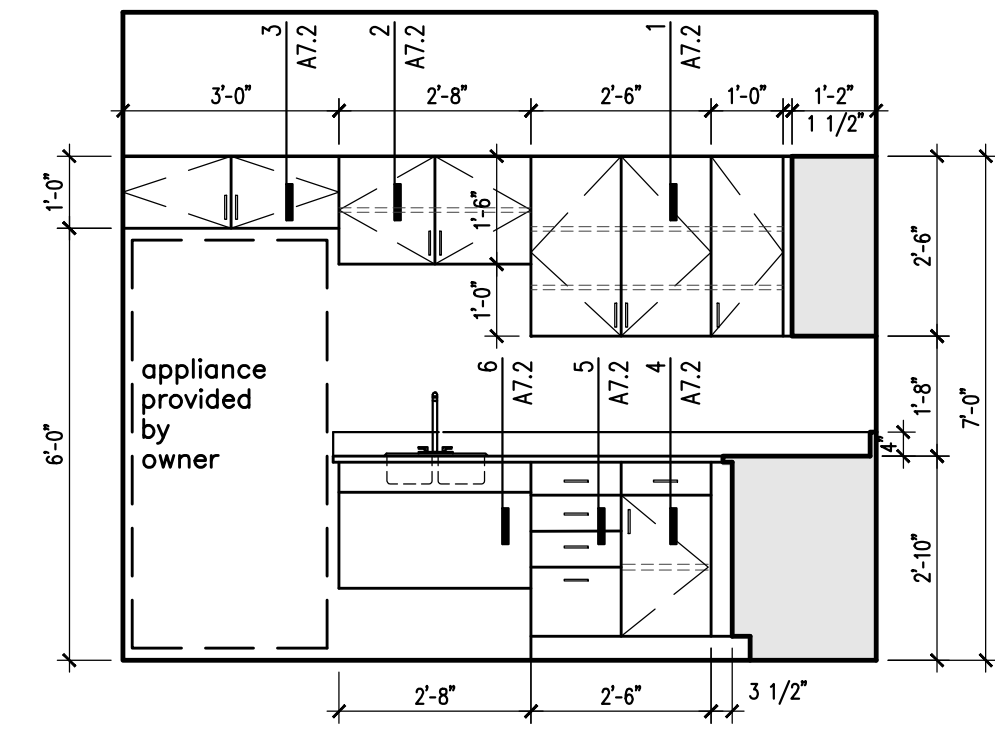
⊙	recessed light fixture	⊗	exit sign - illuminated single face
□	2x4 light fixture	⊕	exit sign - illuminated dbl. face
□	2x2 light fixture	⊗	exit sign - illuminated single face with directional arrow
⊗	supply air	⊕	exit sign - illuminated dbl. face with directional arrows
⊕	return air	⊗	22" x 30" insulated attic access door for ceiling applications equal to Grainger 21E78 upward swinging door - provide support and / or blocking between trusses as req'd.
⊗	exhaust fan	⊙	
⊙	occupancy sensor		

CEILING TYPES

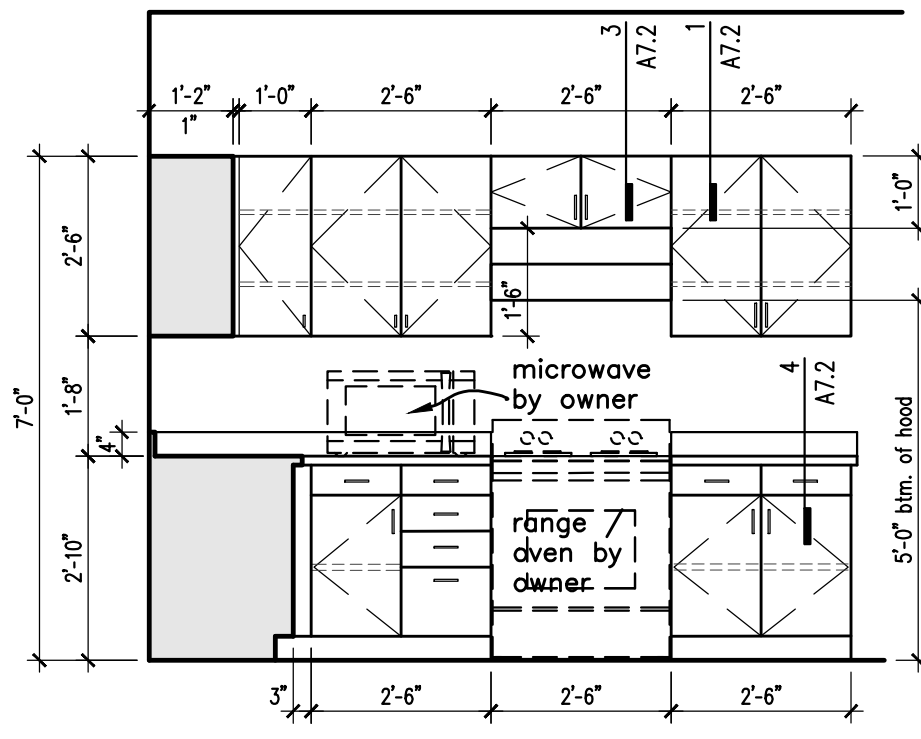
□	gypsum board ceiling
▨	metal soffit panels

REFLECTED CEILING PLAN

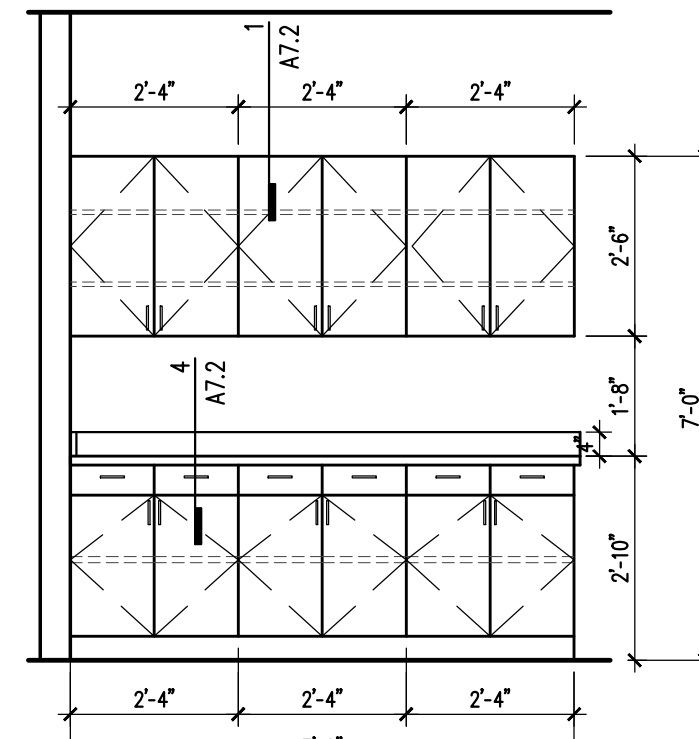
SCALE: 1/4" = 1'-0"



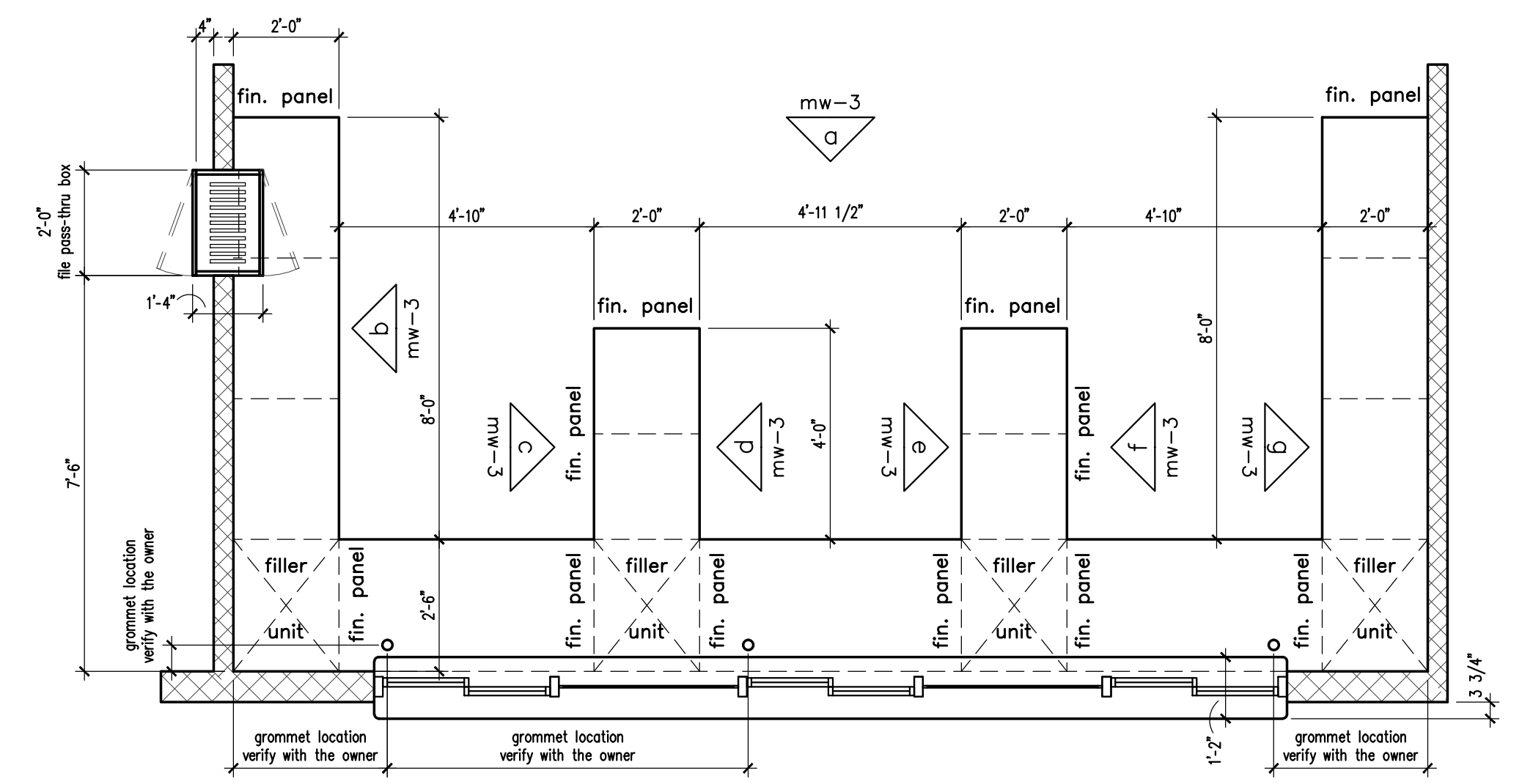
mw-1 north elevation



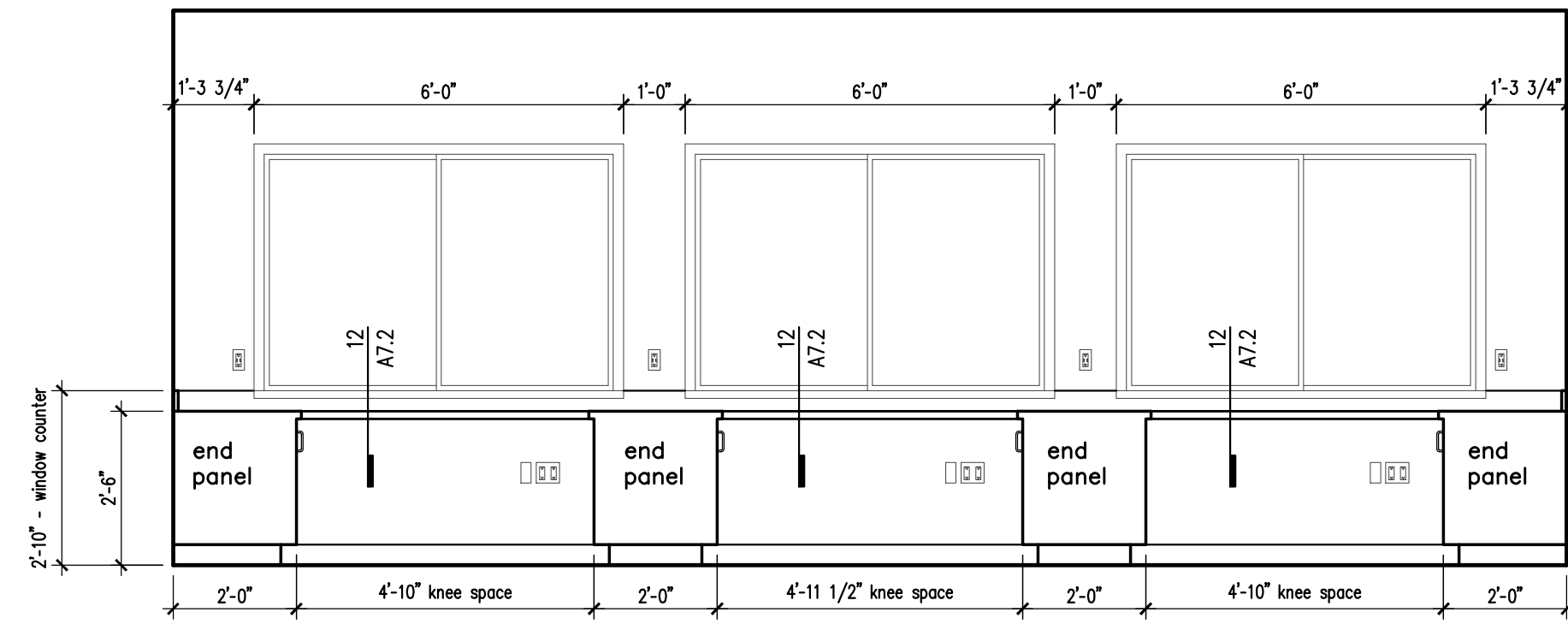
mw-1 east elevation



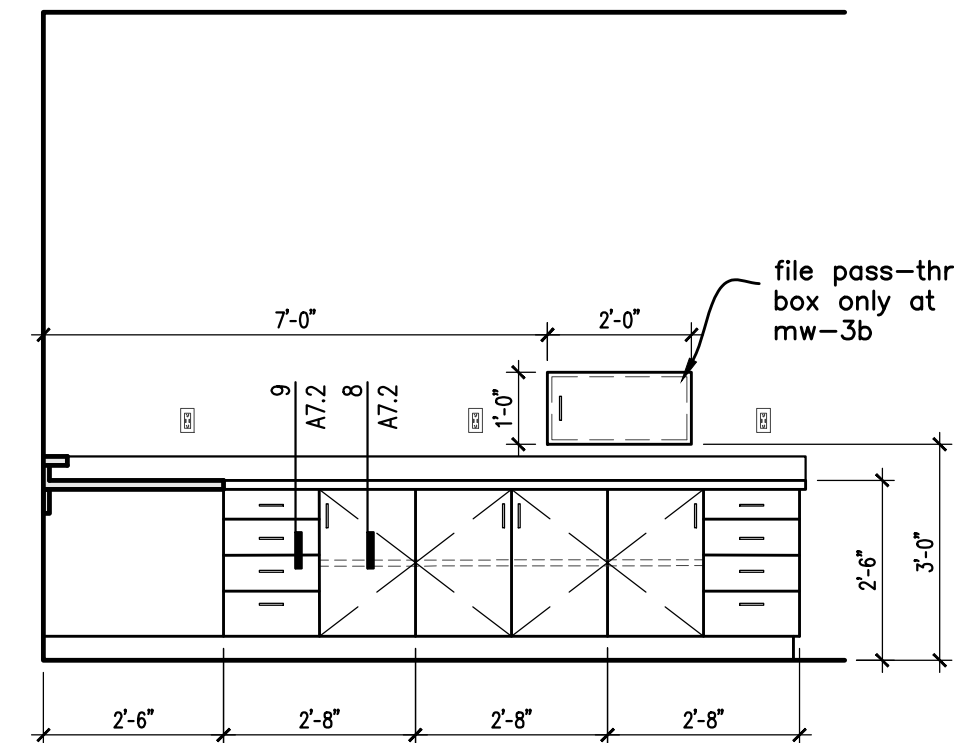
mw-2



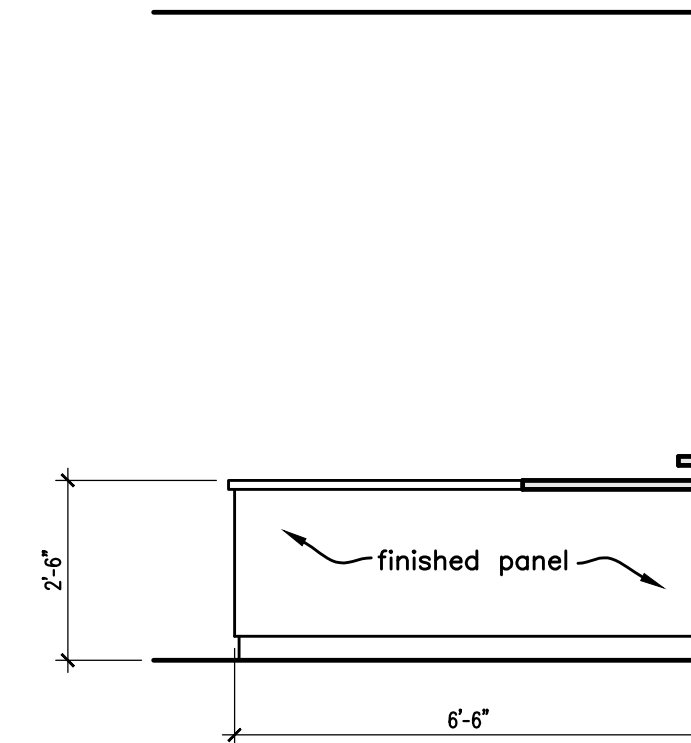
mw-3 plan view



mw-3a



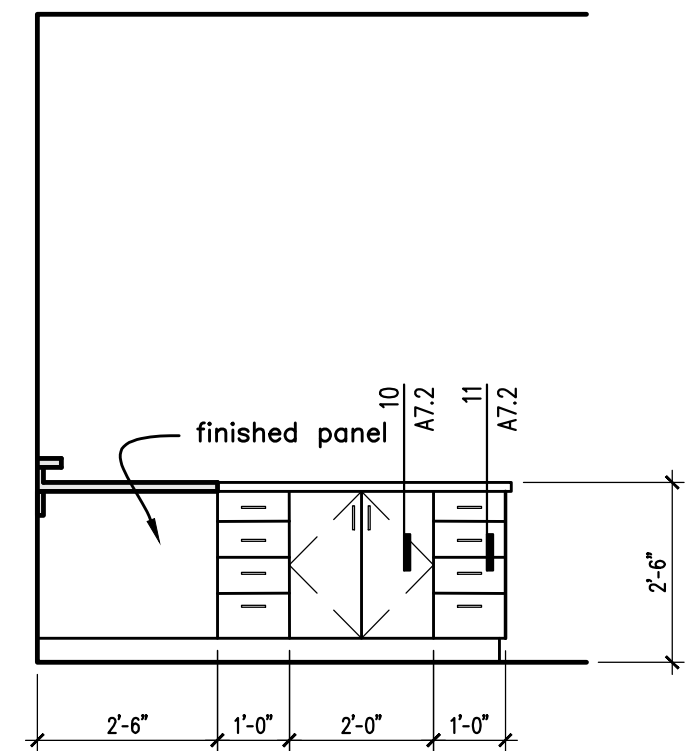
mw-3b
 mw-3g (mirror image)



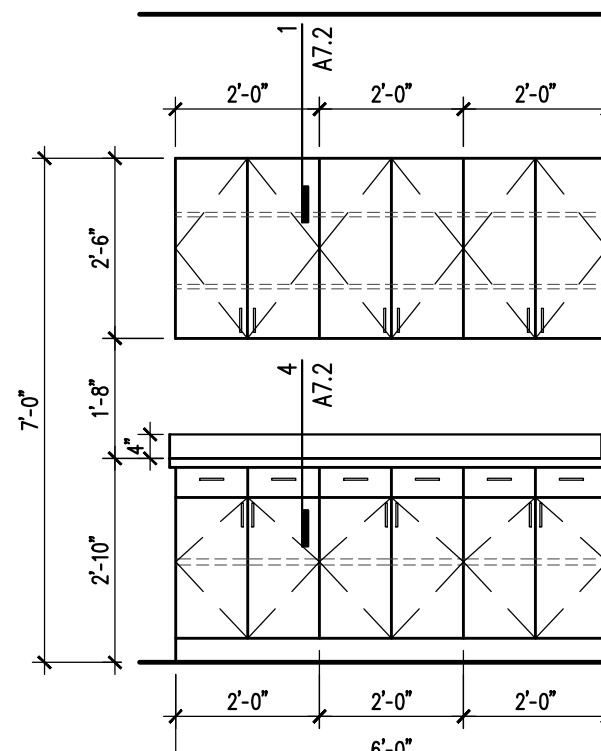
mw-3c
 mw-3f (mirror image)

MILLWORK NOTES

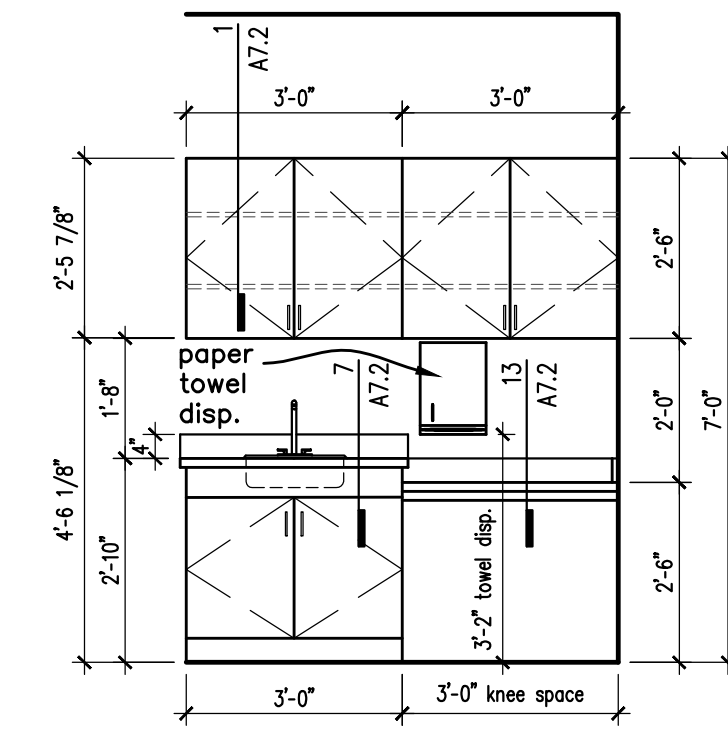
1. Provide plastic laminate at exposed surfaces including the following:
 - 1.1. Tops including edges
 - 1.2. Backsplash
 - 1.3. Sidesplash
 - 1.4. Door panels
 - 1.5. Drawer panels
 - 1.6. End panels
 - 1.7. Toe Kick
2. Cabinet Interiors: Melamine
3. Cabinet Shelves:
 - 3.1. Melamine.
 - 3.2. Adjustable - provide pre-drilled shelf holes and shelf clips.
4. Door and Drawer Pulls:
 - 4.1. Wire style - see specification manual.
 - 4.2. Finish: Satin Nickel.
5. Unit Depths:
 - 5.1. Base Units: 24 inches deep.
 - 5.2. Upper Units: 12 inches deep.
6. Countertop Edge Profile: 1/2" waterfall edge.
7. Appliances: All appliances indicated in millwork elevations are to be provided and installed by the owner.
8. Custom File Pass-Thru Box - Provide as follows:
 - 8.1. 3/4" plastic laminate panels at top, bottom, sides dividers and door panels.
 - 8.2. (11), 3/4" thick x 8" wide x 10-1/2" high dividers spaced 1-3/4" apart.
 - 8.3. 3/4" door panel each side with (2) concealed hinges and a wire pull each door panel.
9. Filler Units: Provide in corners as required and indicated.
10. Paper towel dispensers at millwork are same as item "k" specified in toilet accessories schedule on sheet A-1.4.



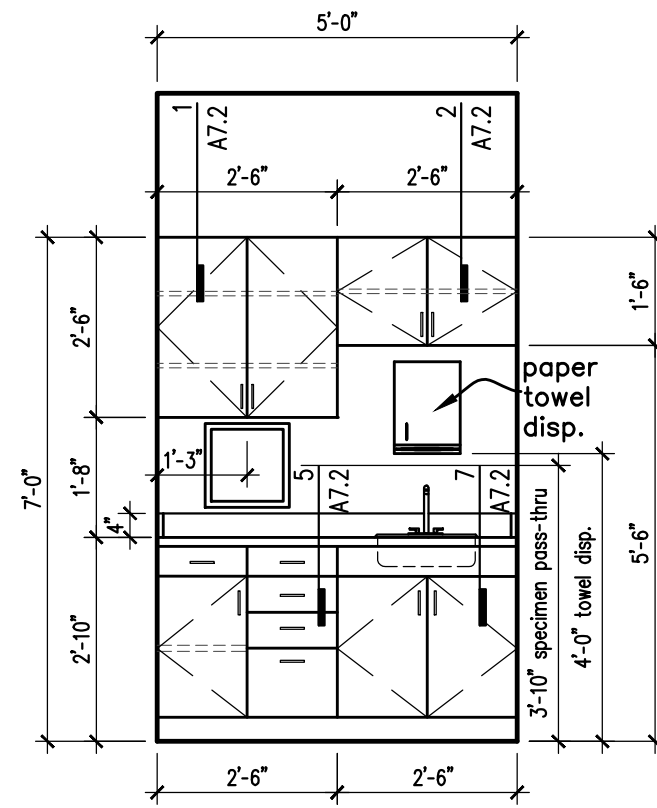
mw-3d
 mw-3e (mirror image)



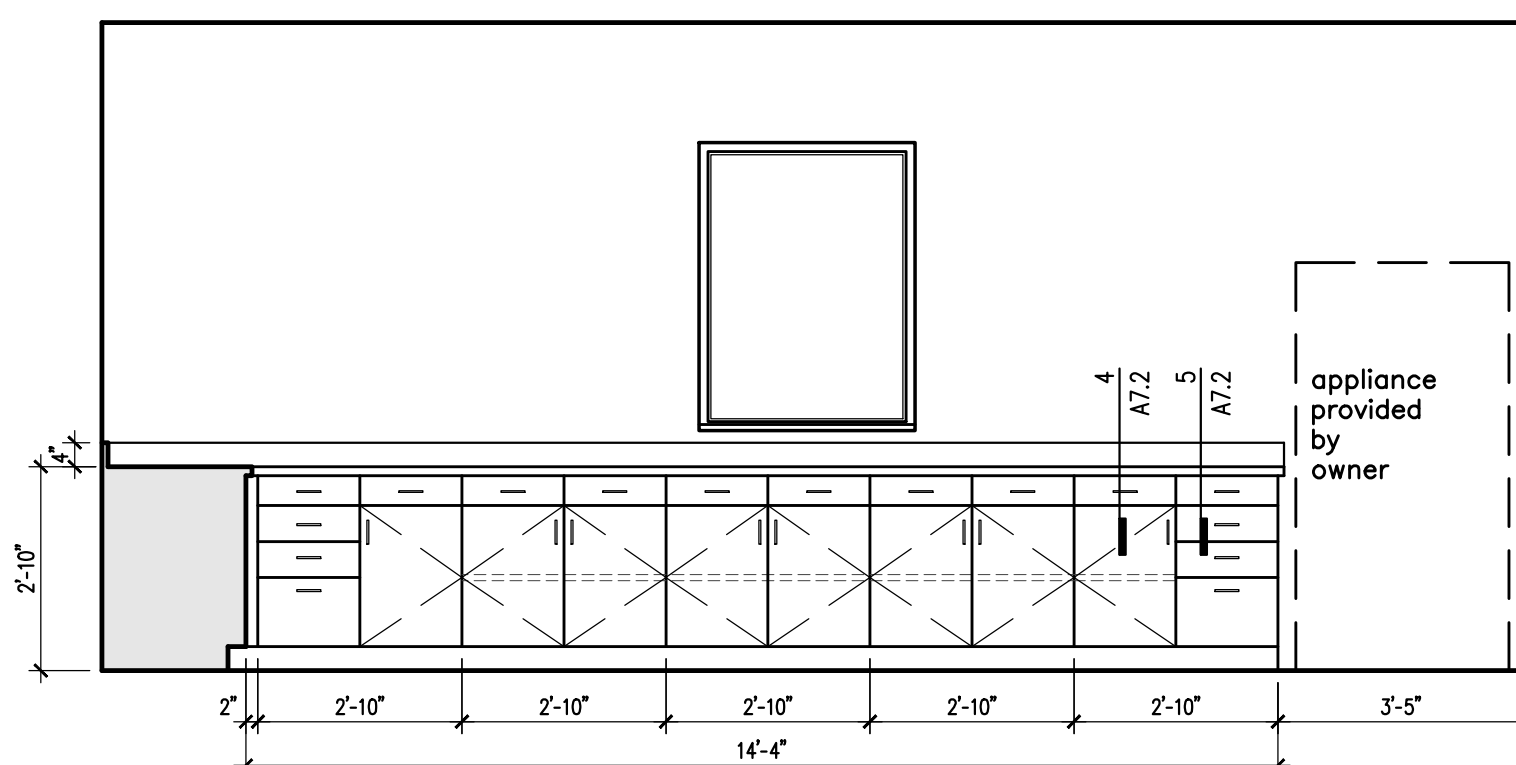
mw-4



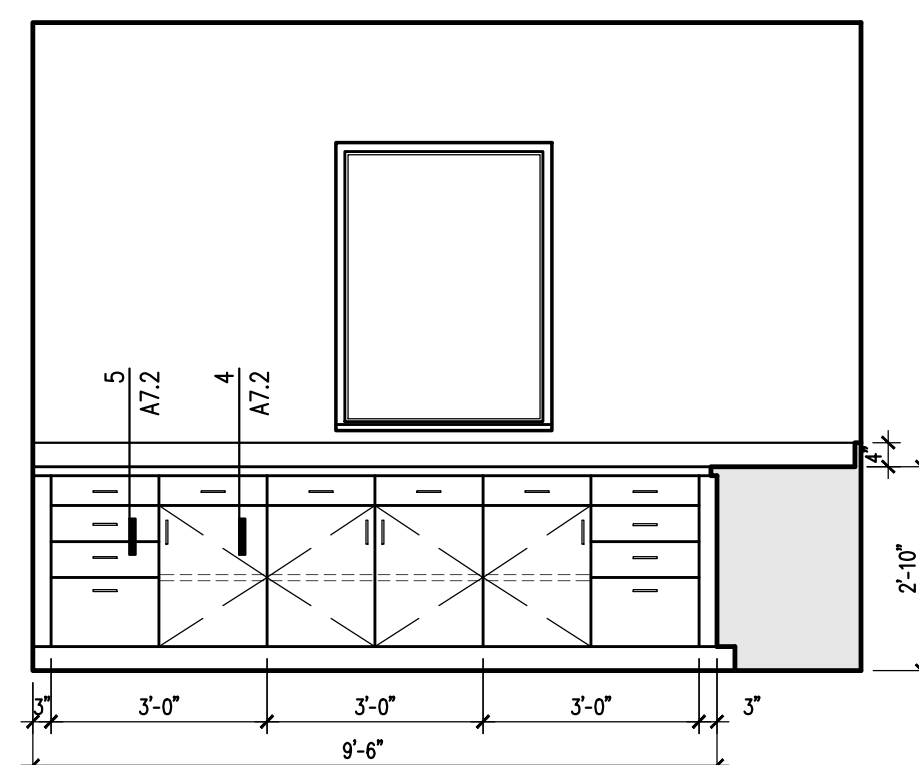
mw-5, mw-10
 mw-6, mw-11 (mirror image)



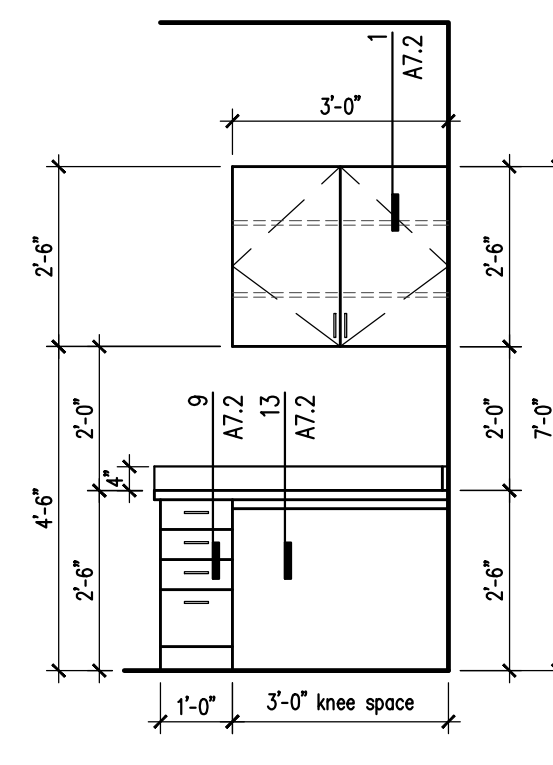
mw-7



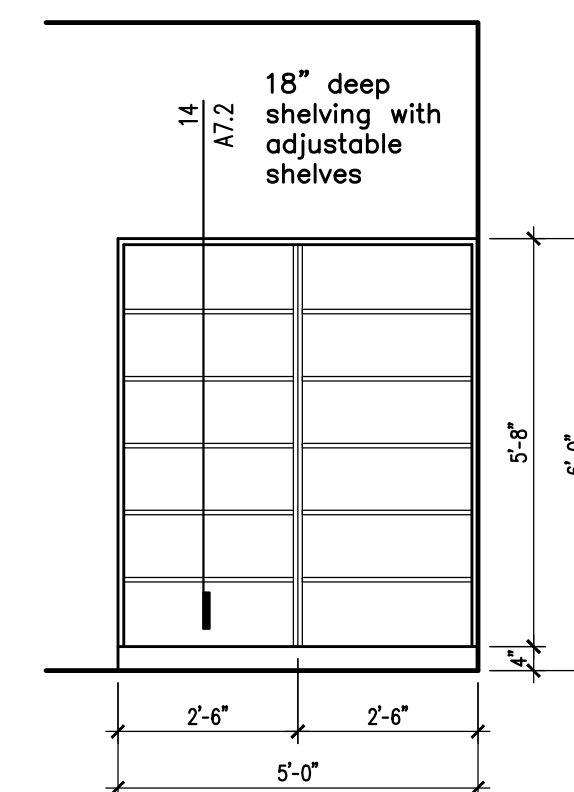
mw-8 east elevation



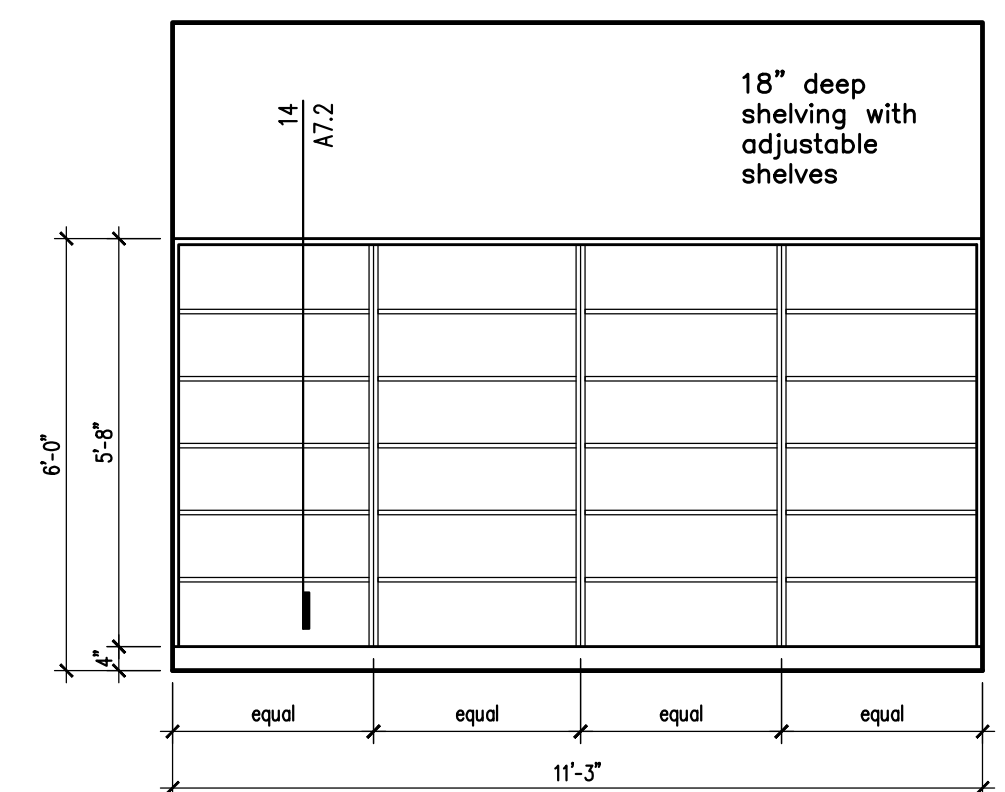
mw-8 north elevation



mw-9



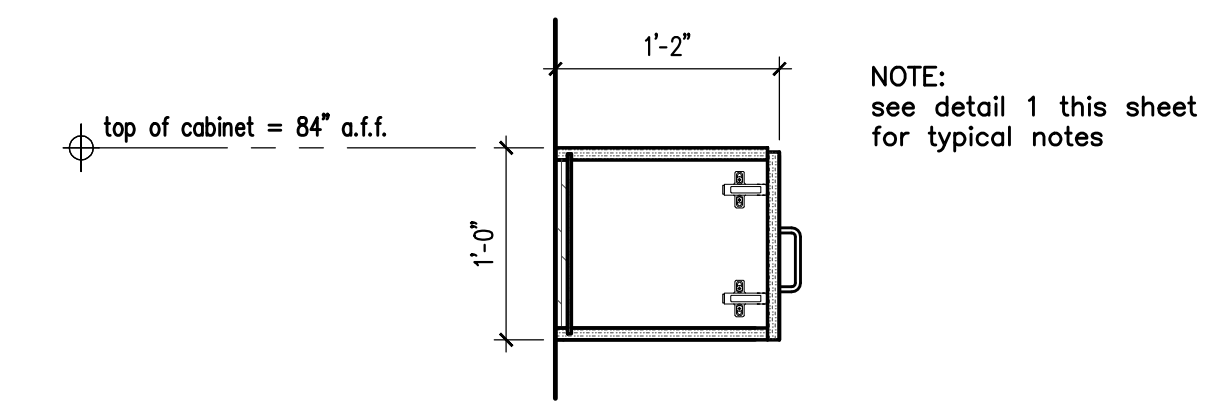
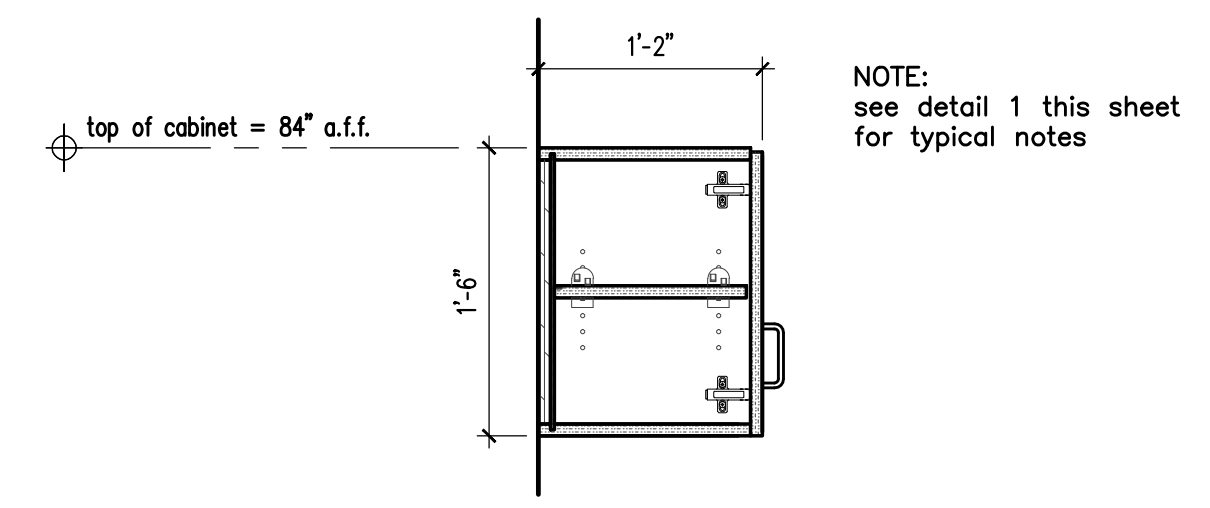
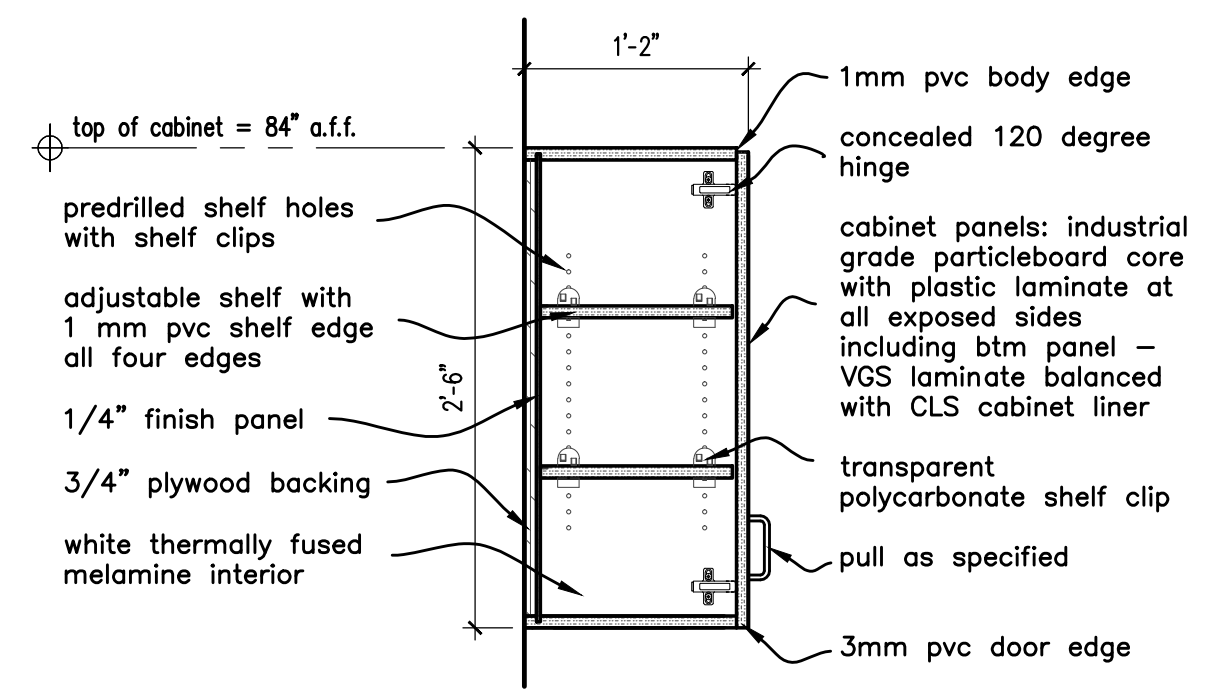
S-1, S-4 (mirror image)



S-2 and S-3

MILLWORK ELEVATIONS

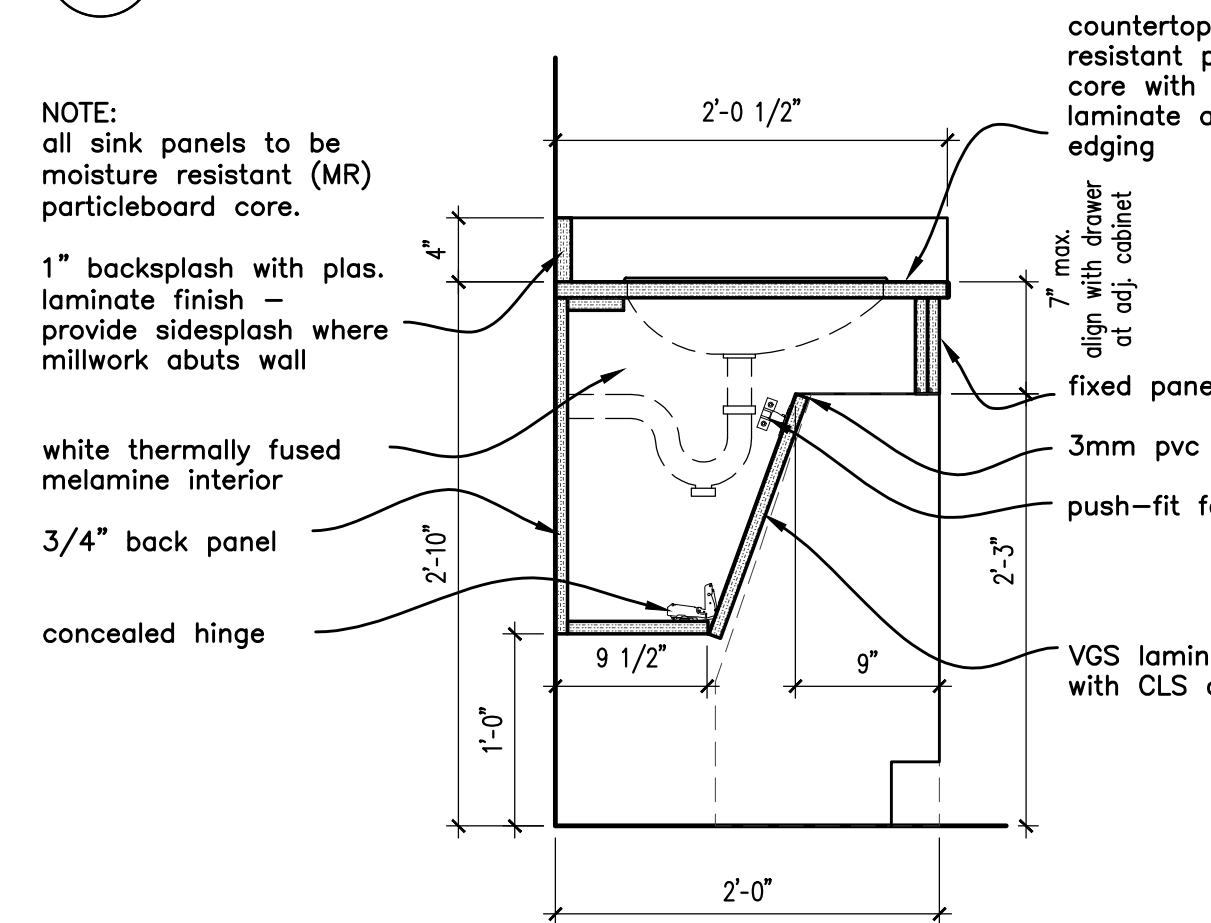
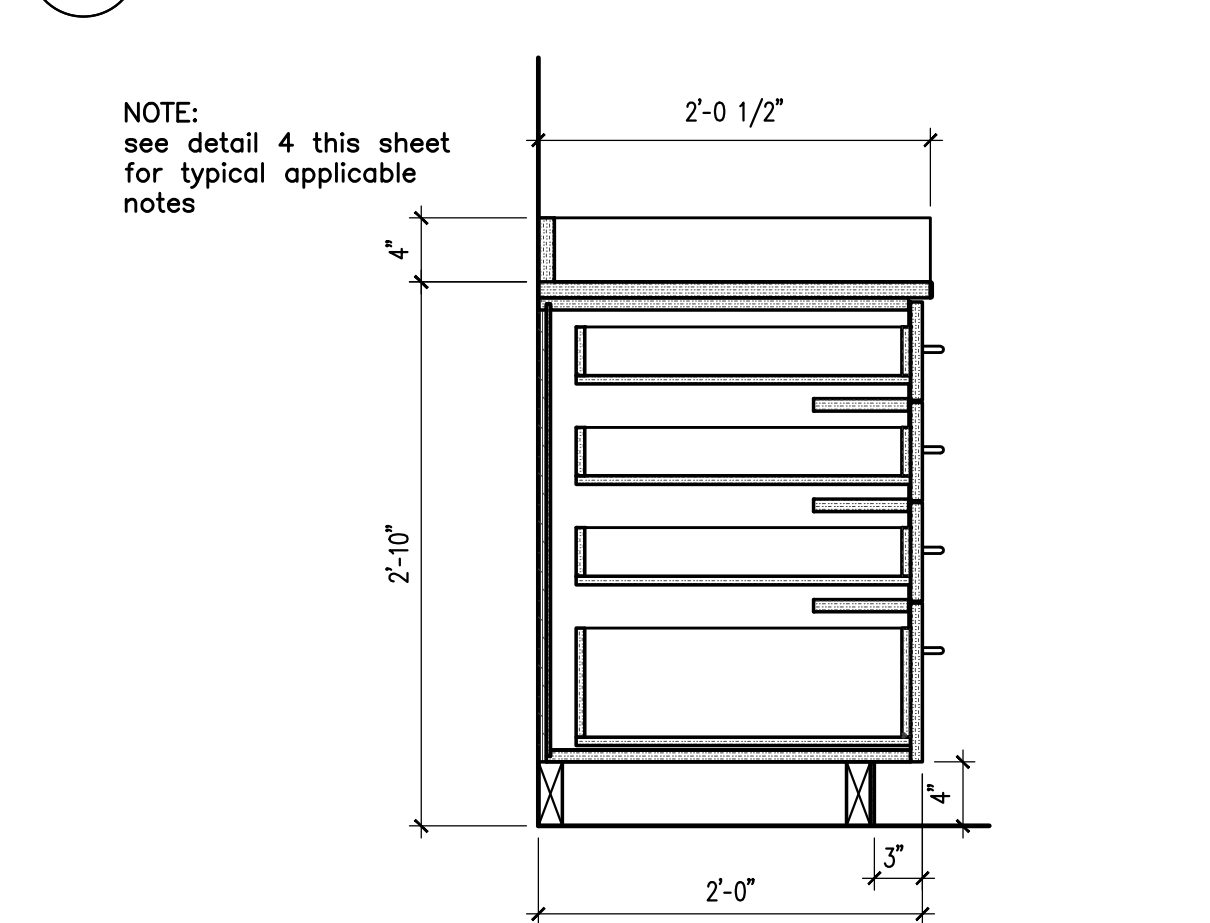
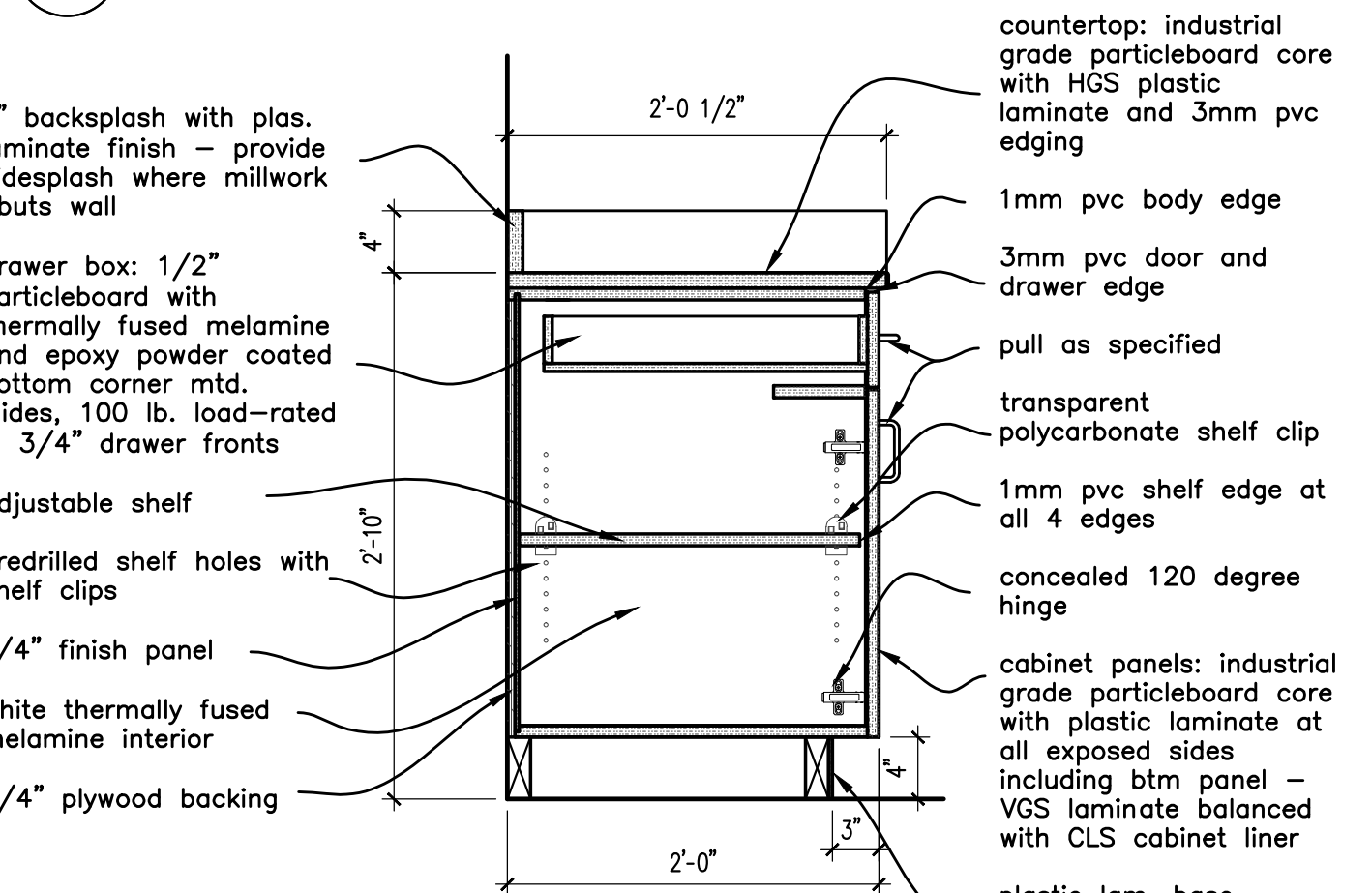
SHELVING ELEVATIONS



1 UPPER CABINET - 30" TALL

2 UPPER CABINET - 18" TALL

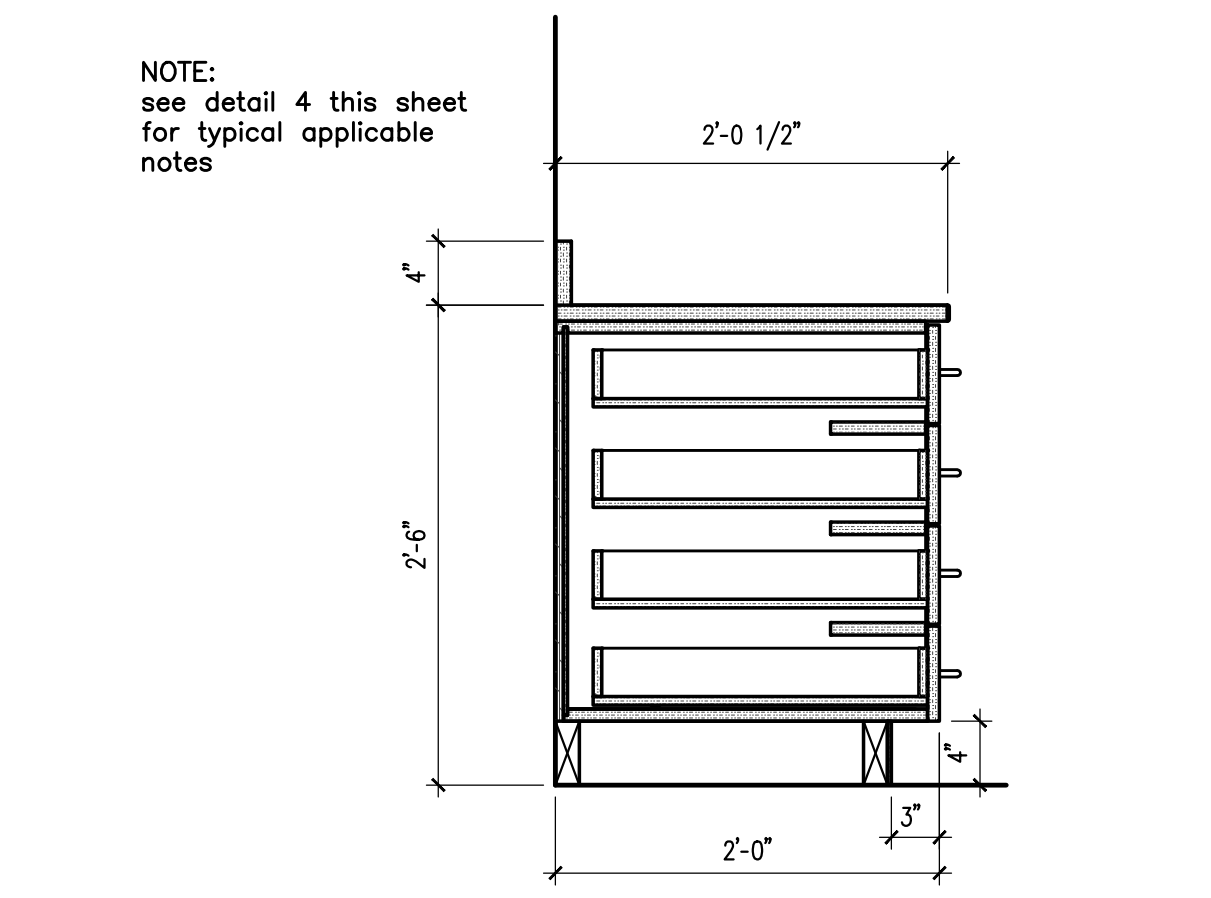
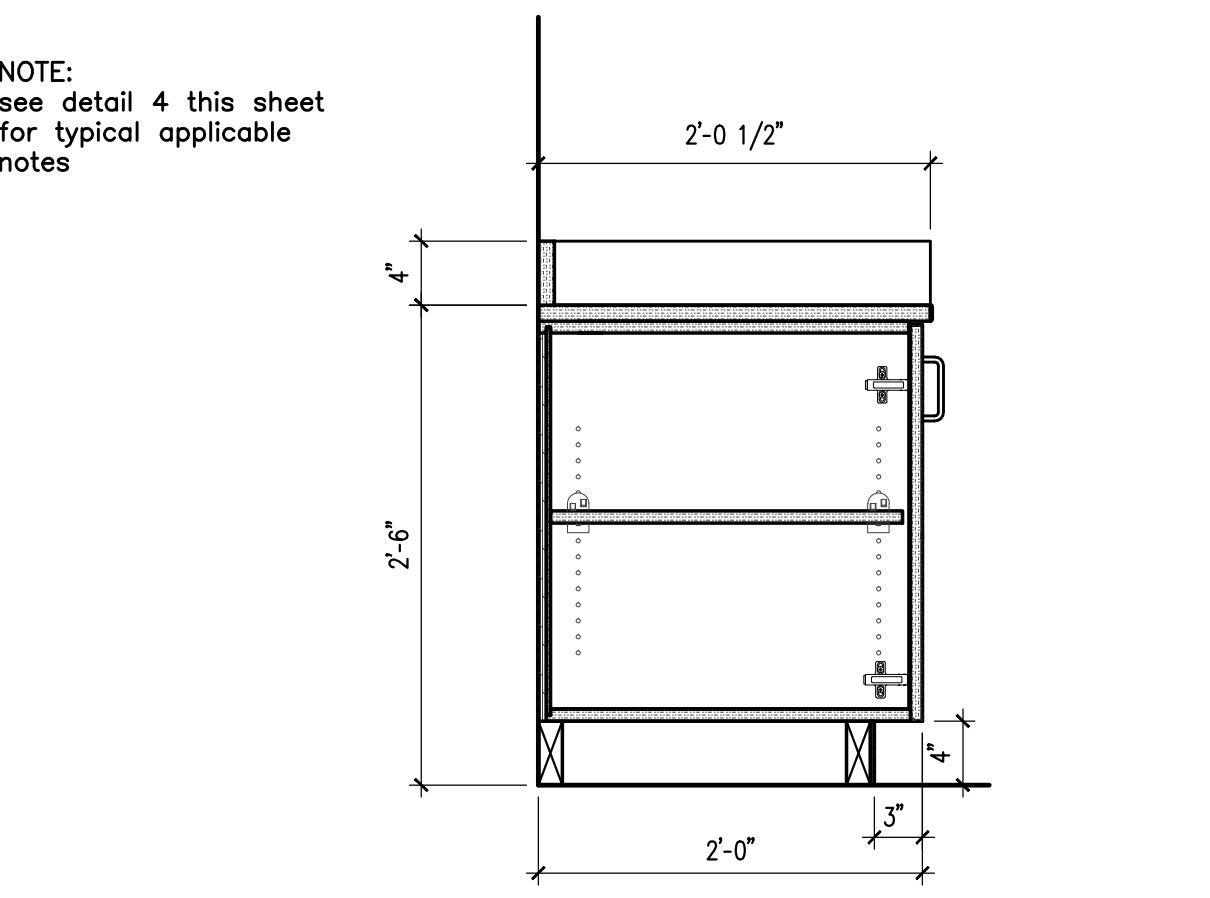
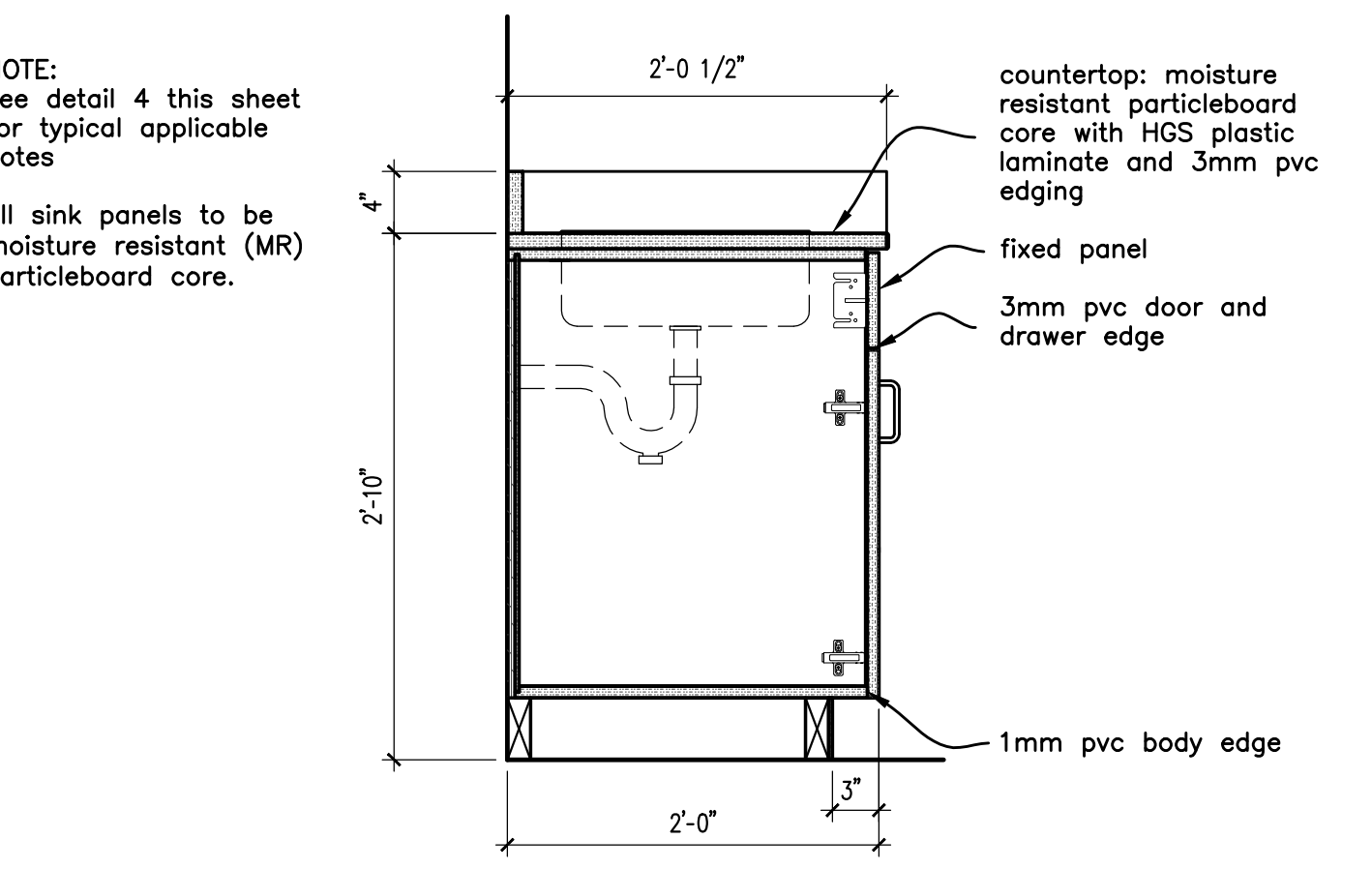
3 UPPER CABINET - 18" TALL



4 BASE UNIT - 24" DEEP

5 BASE DRAWER UNIT - 24" DEEP

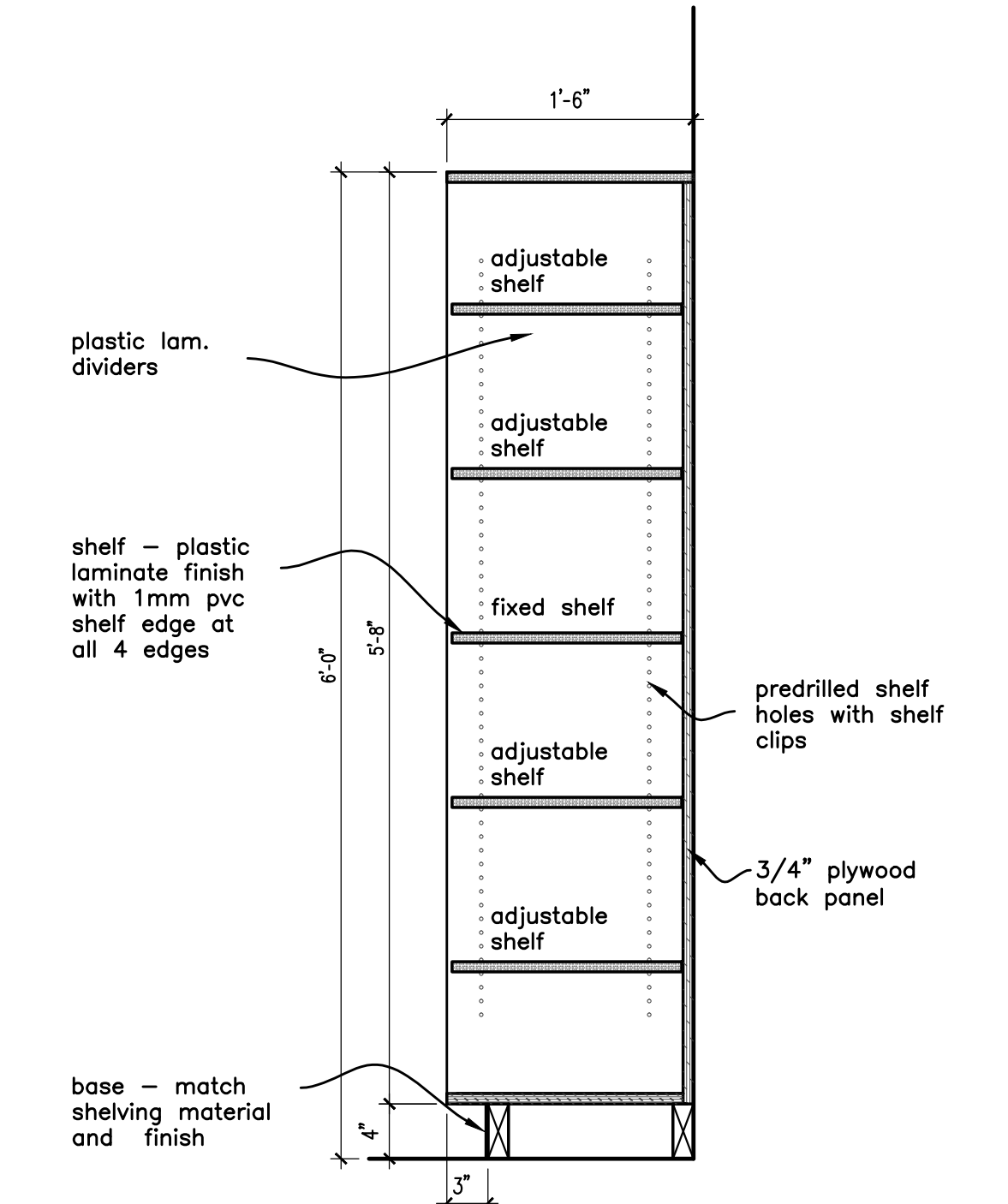
6 SINK CONDITION AT SLOPED PANEL



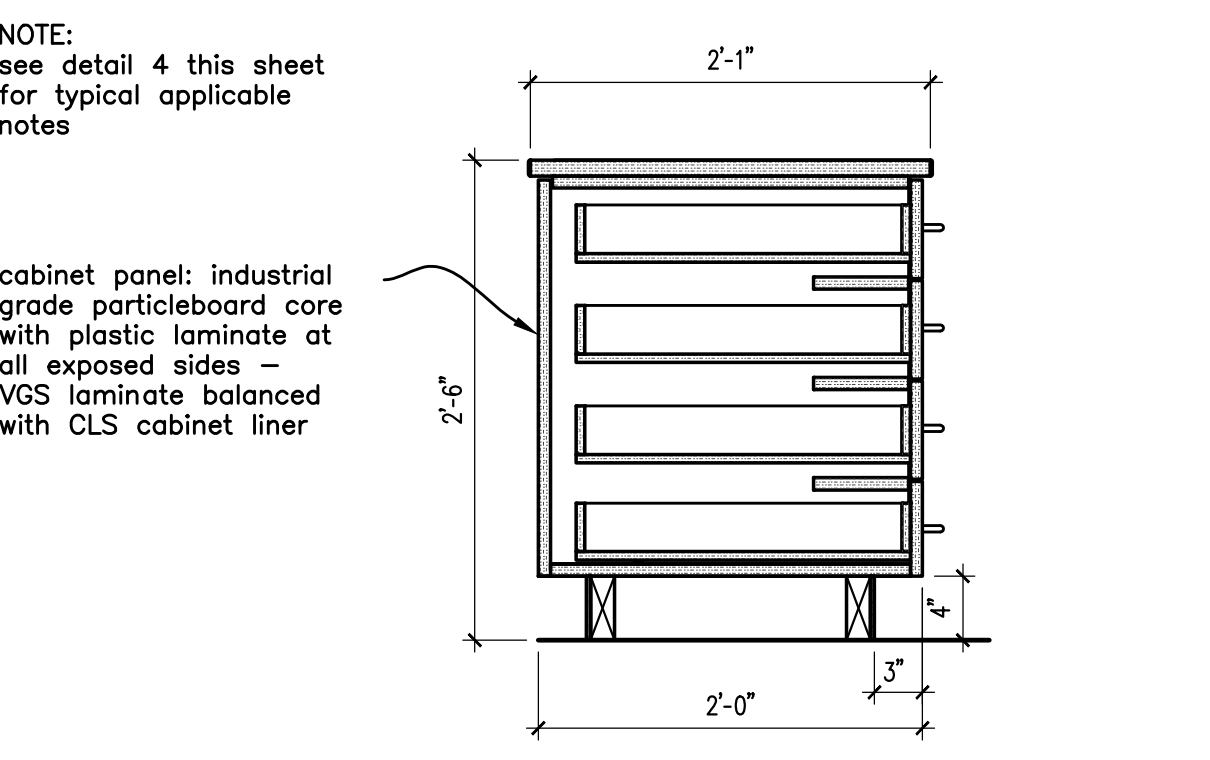
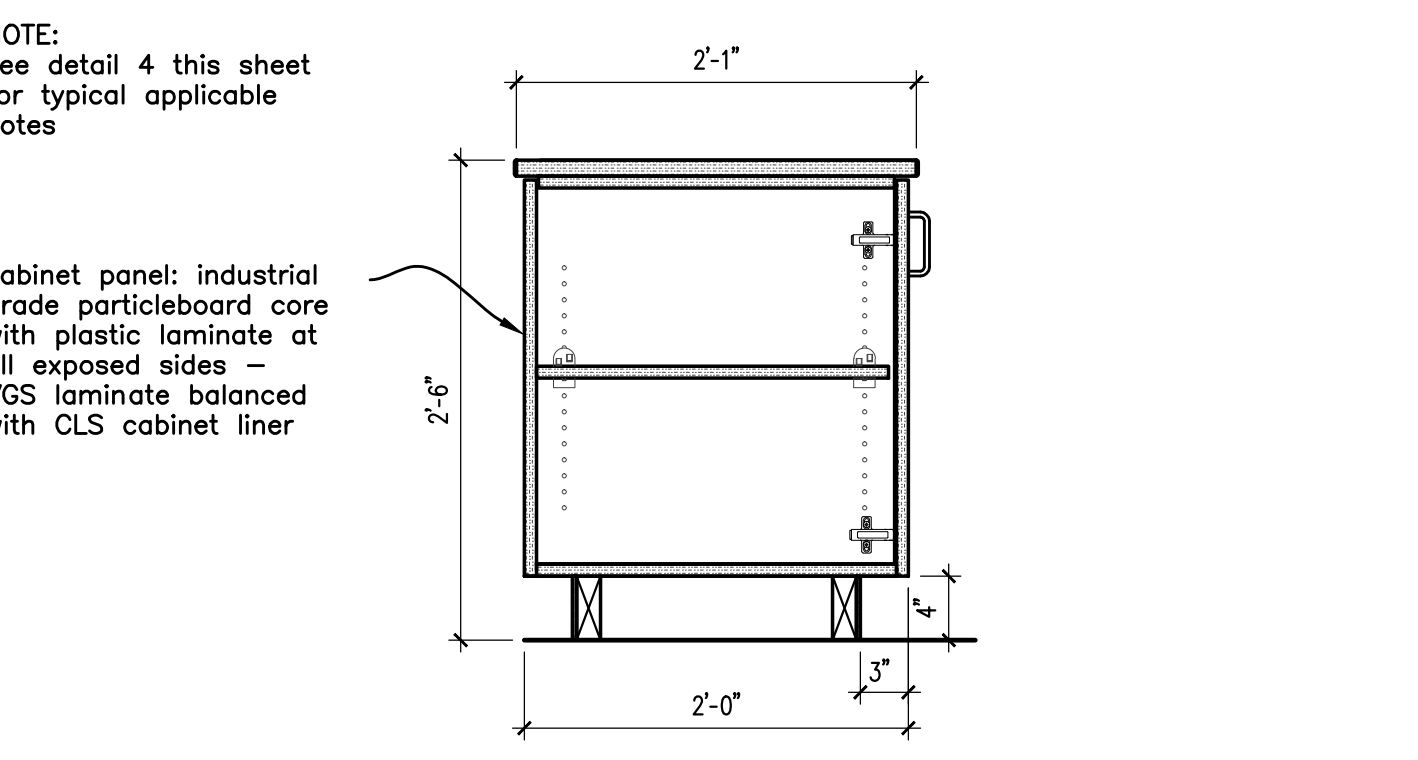
7 BASE UNIT AT SINK - 24" DEEP

8 BASE UNIT - 24" DEEP

9 BASE DRAWER UNIT - 24" DEEP

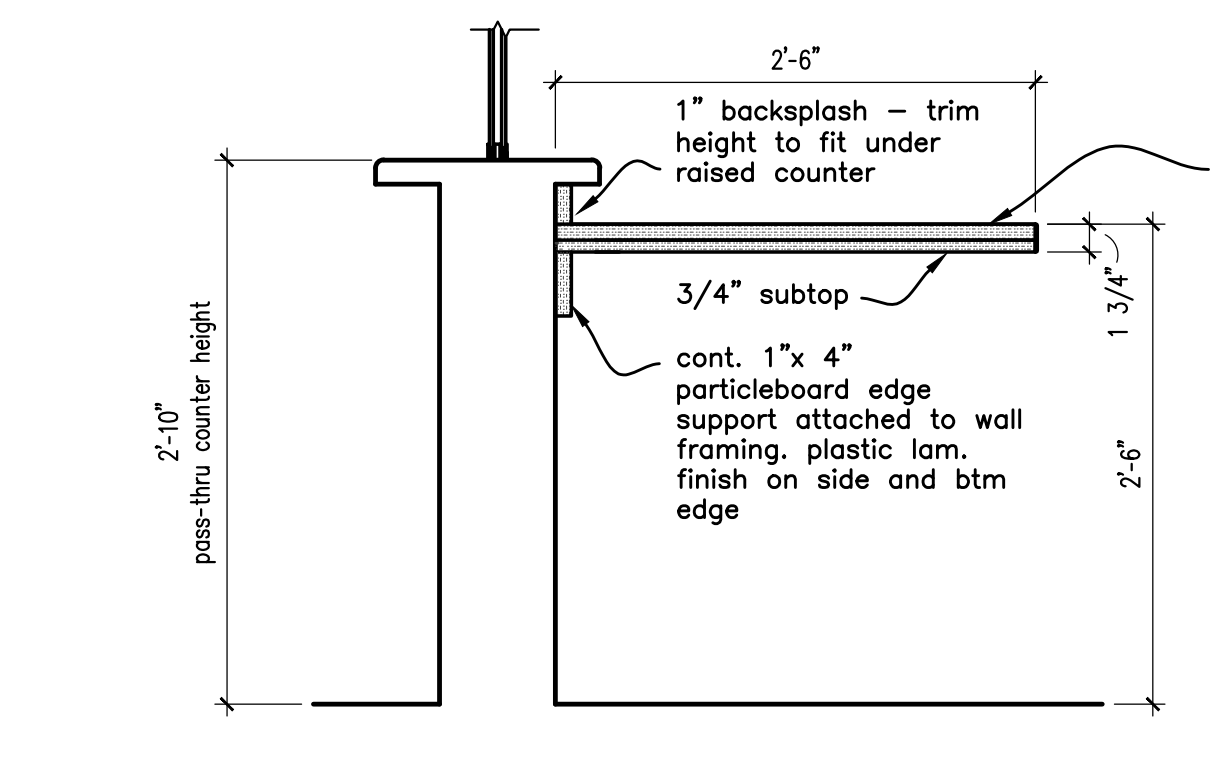


14 SHELVING UNIT

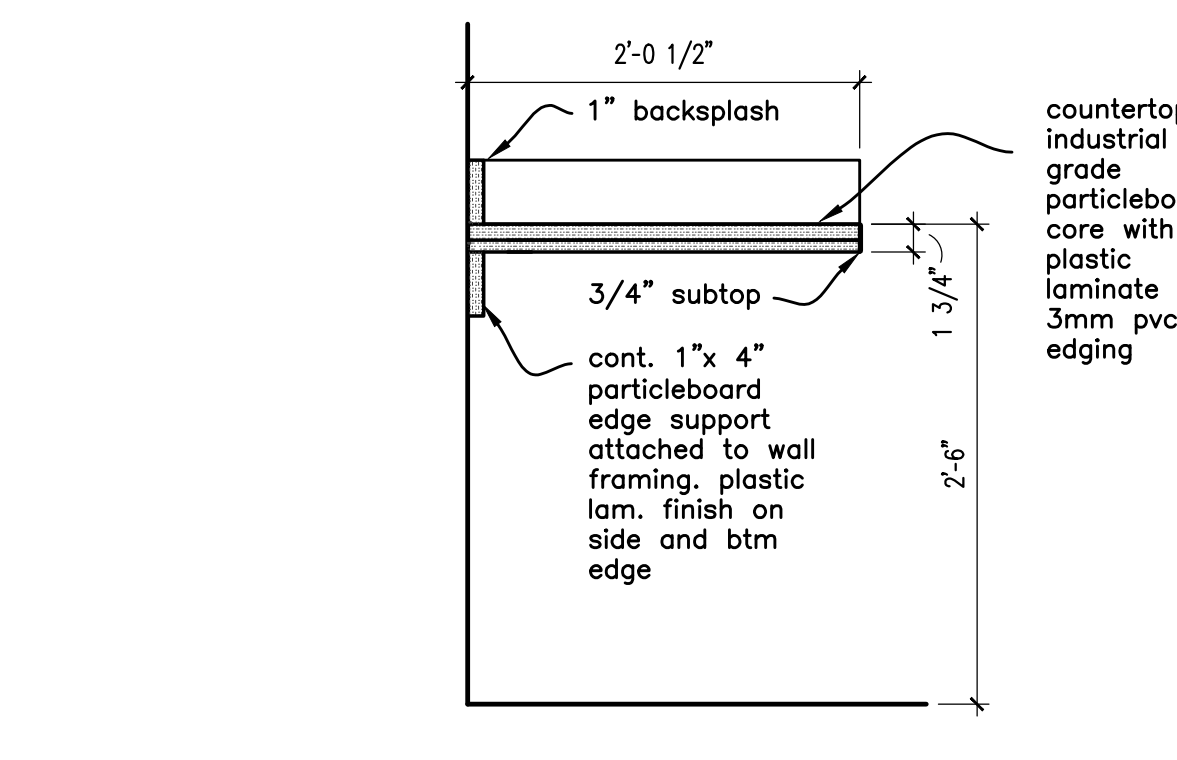


10 BASE ISLAND UNIT - 24" DEEP

11 BASE DRAWER UNIT - 24" DEEP



12 COUNTER AT KNEE SPACE



13 COUNTER AT KNEE SPACE

MILLWORK AND SHELVING SECTIONS

STRUCTURAL NOTES

GENERAL NOTES

- THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.
- IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
- 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.
- REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP DRAWINGS.
- 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 BEFORE SUBMITTAL FOR REVIEW. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE 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.
- 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.
- IF SLAB-ON-GRADE CONTROL JOINTS LOCATIONS ARE NOT SHOWN ON PLANS, PROVIDE SAWN CONTROL JOINTS @ 15'-0" ON CENTER MAXIMUM SPACING IN A PATTERN THAT WILL REDUCE SLAB-ON-GRADE CRACKS UNLESS NOTED OTHERWISE ON DRAWINGS. COORDINATE LOCATIONS WITH THE ARCHITECT AND ENGINEER. RAISED SLABS ON METAL DECK SHALL NOT HAVE CONTROL JOINTS.
- ACI, AISC, AITC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.

SPREAD FOOTINGS

- ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND SOILS ENGINEER'S RECOMMENDATIONS.
- 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 HIS 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 HIS REPRESENTATIVE.
- ALL SPREAD FOOTING EXCAVATIONS SHALL BE FOUNDED IN PROPERLY COMPACTED SELECT FILL OR IN THE NATURAL SOILS WITH ALL ALLOWABLE NET BEARING CAPACITY OF AT LEAST 2000 PSF.
- CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO PROVIDE GEOTECHNICAL ENGINEERING SERVICES AS REQUIRED.
- MAINTAIN FINISHED GRADE (AND/OR BOTTOM OF FOOTING ELEVATIONS) TO PROVIDE AT LEAST 2'-0" COVER ABOVE THE BOTTOM OF ALL EXTERIOR FOOTINGS.

CONCRETE NOTES

CONCRETE REINFORCEMENT

- CONCRETE REINFORCEMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- 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 (FORMED EDGE) 2" CLEAR
- 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 1.5" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT.
- 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.
- 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.
- REINFORCING BARS MARKED AS CONTINUOUS SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICES ONLY.

LAP LENGTH CHART				
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"

- ALL TENSION LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP REINFORCEMENT 8 INCHES 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.
- 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".
- 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)
- 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.
- IF IT IS NECESSARY FOR PLUMBING TO PASS THROUGH GRADE BEAMS HORIZONTALLY, LOCATE IN MIDDLE 1/2 OF BEAM AND PLACE IN PIPE PENETRATION SLEEVE. DO NOT PENETRATE BEAM VERTICALLY.

CAST-IN-PLACE CONCRETE

- CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DESIGN DATA TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- CONCRETE SHALL HAVE AT LEAST THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
A. FOOTINGS, GRADE BEAMS & DRILLED PIERS 3000 PSI
B. SLABS-ON-GRADE, WALLS, PILASTERS & PEDESTALS 4000 PSI
- 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	AGGREGATE TYPE
	MIN. CEMENT CONTENT (LBS/YD)	MAXIMUM PERMISSIBLE W/C RATIO	MIN. CEMENT CONTENT (LBS/YD)	MAXIMUM PERMISSIBLE W/C RATIO		
3000 PSI	470	0.53	517	0.46	6"	REGULAR ROCK
4000 PSI	564	0.44	611	0.40	6"	LIMESTONE
- PROPORTIONS OF CONCRETE MIX DESIGNS SHALL BE DETERMINED BY THE PROCEDURES ESTABLISHED IN SECTION 5.3 OF ACI 318-99.
- MIX DESIGN MAY INCLUDE (TYPE C) FLYASH AS A REPLACEMENT FOR PORTLAND CEMENT UP TO A MAXIMUM OF 20% OF THE TOTAL CEMENTITIOUS MATERIAL. DO NOT USE A FLYASH CONTAINING CONCRETE MIX WHEN THE TEMPERATURE DURING PLACEMENT OR CURING IS PROJECTED TO FALL BELOW 60 DEGREES FAHRENHEIT.
- 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.
- 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.

METALS NOTES

STRUCTURAL STEEL FRAMING

- STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- ALL STRUCTURAL STEEL SHAPES SHALL BE AS FOLLOWS:
A. ALL WIDE FLANGE STRUCTURAL STEEL SHAPES SHALL BE ASTM A992
B. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, Fy = 46 KSI.
C. ROUND HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, Fy = 42 KSI.
D. ROUND STEEL PIPES SHALL BE ASTM A53, GRADE B, Fy = 35 KSI.
E. ALL OTHER STRUCTURAL STEEL (CHANNELS, ANGLES, PLATES, ETC) SHALL BE ASTM A36.
- ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 UNLESS NOTED OTHERWISE.
- STRUCTURAL BOLTS SHALL BE ASTM A325-N, UNLESS OTHERWISE NOTED.
- BOLTS THRU WOOD BLOCKING SHALL BE ASTM A307. ALL BOLTS IN CONTACT WITH TREATED WOOD SHALL BE STAINLESS STEEL (TYPE 316L) OR HOT DIPPED GALVANIZED WITH A MINIMUM COATING THICKNESS OF 0.2 OUNCES PER SQUARE FOOT (ASTM A153). USE STAINLESS BOLTS WITH STAINLESS STEEL CONNECTORS AND GALVANIZED BOLTS WITH GALVANIZED CONNECTORS IF ONLY ONE IS SPECIFIED.
- POST-INSTALLED ADHESIVE ANCHORS SHALL BE STANDARD HAS-E CARBON STEEL ANCHORS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF FY=58 KSI OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM STEEL YIELD STRENGTH OF FY=45 KSI, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE SIMPSON STRONG-TIE AT-XP EPOXY SYSTEM (OR APPROVED EQUAL) IN CONCRETE OR FILLED CMU CELLS AND SIMPSON STRONG-TIE AT EPOXY SYSTEM (OR APPROVED EQUAL) IN HOLLOW CMU OR CLAY MASONRY.
- CONNECTIONS SHALL BE DESIGNED CONSIDERING BOLT THREADS INCLUDED IN THE SHEAR PLANE (A325-N). ALL BOLTING SHALL BE INSTALLED BY THE TURN-OF-THE-NUT METHOD, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS THAT MEET THE REQUIREMENTS OF ASTM F1852 OR F2280 OR DIRECT-TENSION-INDICATOR DEVICES THAT MEET THE REQUIREMENTS OF ASTM F959. SNUG TIGHT BOLTING WILL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON CONTRACT DRAWINGS.
- ALL BOLTED CONNECTIONS (EXCEPT COMPOSITE FLOOR BEAM CONNECTIONS) SHALL BE BEARING TYPE SELECTED TO SUPPORT ONE-HALF (1/2) OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAMS AS SHOWN IN THE TABLES OF UNIFORM LOAD CONSTANTS, PART 2 OF THE AISC MANUAL, 8TH EDITION, FOR THE GIVEN BEAM SIZE, SPAN AND GRADE OF STEEL SPECIFIED. THE EFFECTS OF ANY CONCENTRATED LOADS MUST BE TAKEN INTO ACCOUNT. CONNECTIONS SHALL BE DESIGNED CONSIDERING THREADS INCLUDED IN THE SHEAR PLANE (A325-N).
- ALL WELDS SHALL BE E70XX, MINIMUM AND SHALL BE PERFORMED BY A WELDER CERTIFIED BY AN AWS CERTIFIED INSPECTOR OR EDUCATOR WHILE WORKING FOR CURRENT EMPLOYER.
- DO NOT PRIME PAINT STEEL THAT RECEIVES SPRAYED FIREPROOFING.
- ALL STEEL LINTELS AND SHELF ANGLES SHALL BE COATED WITH A ZINC RICH PRIMER.
- ALL STRUCTURAL STEEL EXPOSED TO WEATHER (SUCH AS MECHANICAL FRAMES) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

LINTEL SCHEDULE		
WALL TYPE	UP TO 4'-0" OPENING	4'-1" TO 8'-0" OPENING
4" VENEER	4x4x1/4	6x4x5/8 (LLV)

- LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE.
- 8" BEARING @ EA. END, MINIMUM.
- IF THERE IS AN OPENING LARGER THAN SCHEDULE ALLOWS CONTRACTOR SHALL ESTIMATE STEEL OF 50PLF & CONTACT STRUCTURAL ENGINEER FOR EXACT SIZE NEEDED.

COLD-FORMED METAL FRAMING

- ALL STRUCTURAL STUDS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A653/A653M.
- ALL COLD-FORMED STEEL STUD SECTIONS ARE IDENTIFIED ACCORDING TO THE DESIGNATIONS GIVEN IN THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) PRODUCT TECHNICAL INFORMATION MANUAL. SEE SSMA FOR MINIMUM SECTION PROPERTIES.
EXAMPLE: 600S162-43
600 = MEMBER DEPTH (600 X 162 INCHES = 6")
S = STYLE (S = STUD, T = TRACK, U = CHANNEL)
162 = FLANGE WIDTH (162 X 162 INCHES = 1.625" = 1 1/2")
43 = MATERIAL THICKNESS (43 = 43 MILS X 1000 INCHES = 0.043")
YIELD STRENGTH SHALL BE 33 KSI UNLESS NOTED ON PLANS AS FOLLOWS:
600S162-43 (50 KSI) - FOR 50KSI YIELD STRENGTH

MILS	GAUGE NO.
33	20
43	18
54	16
68	14
97	12

- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE COLUMNS BUILT-UP OF MULTIPLE STUDS (2 STUDS MIN) FOR HEADER AND BEAM BEARING.
- ALL STUDS AT LOAD BEARING WALLS SHALL BE CUT FULL LENGTH WITH TRACKS. (TOP AND BOTTOM) INSTALLED TIGHT AGAINST ENDS OF STUD. NO GAPS BETWEEN END OF STUDS AND TRACK WILL BE ALLOWED IN LOAD BEARING STUDS.
- ALL COLD-FORMED STEEL FRAMING SHAPES (SUCH AS Z-PURLINS, C-PURLINS, HAT CHANNELS AND EAVE STRUTS) ARE IDENTIFIED ACCORDING TO THE DESIGNATIONS GIVEN IN THE LIGHT GAGE STEEL INSTITUTE (LGS) "LIGHT GAGE STRUCTURAL STEEL FRAMING SYSTEM DESIGN HANDBOOK". SEE LGS FOR MINIMUM SECTION PROPERTIES.

PRE-ENGINEERED LIGHT GAUGE METAL TRUSSES

- TRUSS FABRICATOR SHALL SUBMIT 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.
- TRUSS DIMENSIONS AND LAYOUT, IF SHOWN, ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR FABRICATION. FABRICATOR SHALL BE RESPONSIBLE FOR ACTUAL DIMENSIONS OF TRUSSES. TRUSSES SHALL UTILIZE ONLY THE BEARING WALLS AND SUPPORTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL PROVIDE BRACING FOR TRUSS CHORDS AND WEB MEMBERS AS REQUIRED BY THE TRUSS FABRICATOR. SYSTEM IS NOT STABLE UNTIL SHEATHING AND PERMANENT BRACING ARE INSTALLED.
- TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE TRUSS HANGERS WHERE TRUSSES ARE SUPPORTED BY OTHER TRUSSES.
- TRUSS MANUFACTURERS SHALL COORDINATE ALL HAT CHANNELS AND ATTACHMENT TO TOP AND BOTTOM CHORD OF TRUSS. ADDITIONAL TRUSSES SHALL BE ADDED IF HAT CHANNELS CANNOT CARRY ROOF LOADS OR CEILING LOADS AT TRUSS SPACING SHOWN ON PLAN. HAT CHANNEL DEFLECTION ON ROOF AND CEILING SHALL BE LIMITED TO 1/250 TOTAL LOAD AND 1/300 LIVE LOAD.
- TRUSS MANUFACTURER SHALL DESIGN AND COORDINATE A COMPLETE ROOF SYSTEM INCLUDING ALL TRUSSES, HEADERS, CONNECTIONS AND HAT CHANNELS (IF APPLICABLE), ETC.

STRUCTURAL PANELS

- WALL SHEATHING SHALL BE ATTACHED WITH #10x1" FLAT HEAD, SHARP POINT, SELF DRILLING SCREWS AT 8" ON CENTER AT SUPPORTED EDGES AND AT 12" ON CENTER ALONG ALL INTERMEDIATE SUPPORTS.
- ROOF SHEATHING SHALL BE 5/8" 5-PLY, C-D INT-APA RATED PLYWOOD WITH EXTERIOR GLUE (SPAN INDEX 24) OR 5/8" SBA RATED, ORIENTED STRAND BOARD (OSB) (SPAN INDEX 24). ATTACHMENT SHALL BE WITH #10x1" FLAT HEAD, SHARP POINT, SELF DRILLING SCREWS AT 8" ON CENTER AT SUPPORTED EDGES AND AT 12" ON CENTER ALONG ALL INTERMEDIATE SUPPORTS. PLYCLIPS SHALL BE USED AT ALL FREE EDGES, ONE AT MID-POINT BETWEEN ALL SUPPORTS.

DESIGN LOADS:

- DEAD LOADS: WEIGHT OF THE STRUCTURE
- ROOF LIVE LOAD: 20 PSF
- GROUND SNOW LOAD: 10 PSF
- BASIC WIND SPEED: Vult: 115 MPH
Vasd: 89 MPH
- WIND RISK CATEGORY: WIND EXPOSURE
INTERNAL PRESSURE COEFFICIENT: 0.18
COMP. & CLADDING WIND PRESSURE: SEE ASCE 7, FIGURE 6-3
- SEISMIC IMPORTANCE FACTOR: I: 1.25
SEISMIC RISK CATEGORY: II
MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss: 0.79
S1: 0.28
Sds: 0.63
SD1: 0.34
- SITE CLASS: D
SEISMIC DESIGN CATEGORY: BEARING WALL SYSTEMS
BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT-FRAMED WALL SYSTEMS USING FLAT STRAP BRACING
- DESIGN BASE SHEAR: 0.16W
SEISMIC RESPONSE COEFFICIENT: Cs: 0.16
RESPONSE MODIFICATION FACTOR: R: 4
ANALYSIS PROCEDURE: EQUIV. LATERAL FORCE (1617.4)
- SEISMIC ZONE PER A.C.A. 12-80-101 ET. SEQ. 3
- CODES: 2012 ARKANSAS FIRE PREVENTION CODE
A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)

THE FOUNDATIONS AND STRUCTURAL FRAMING HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ARKANSAS FIRE PREVENTION CODE AND A.C.A. 12-80-101 ET. SEQ.

PROJECT NO. 190607
DATE: 10-26-20
DRAWN BY: JA / LCF

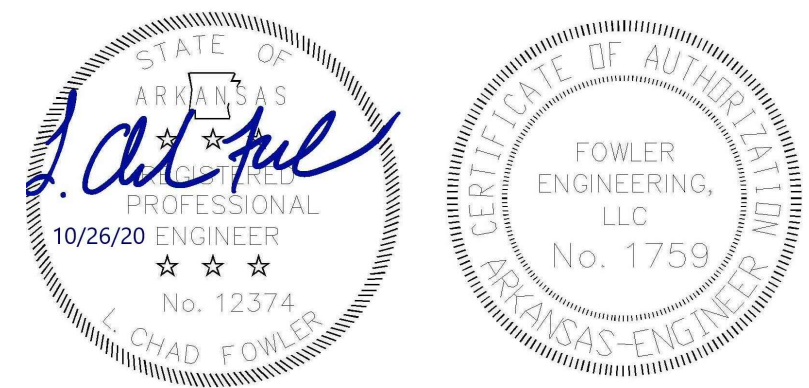
REVISION: DATE:

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MSA
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NEW FACILITY
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POCAHONTAS, ARKANSAS 72455

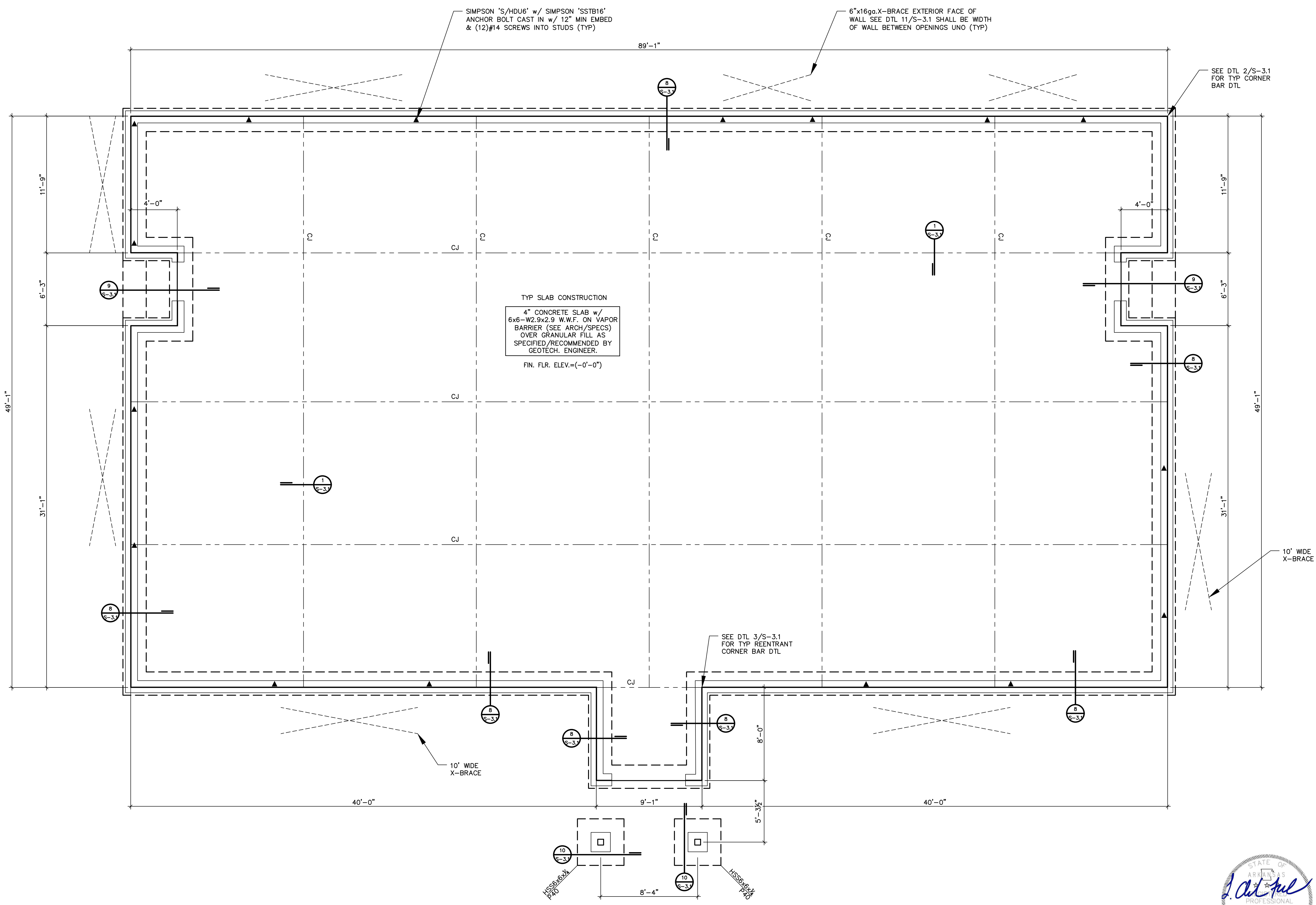
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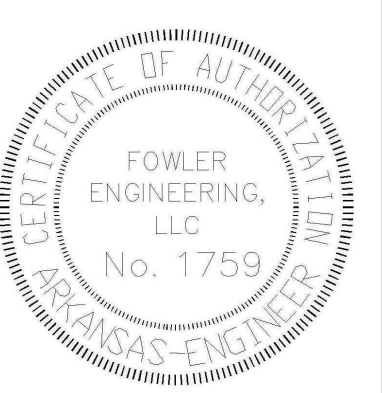
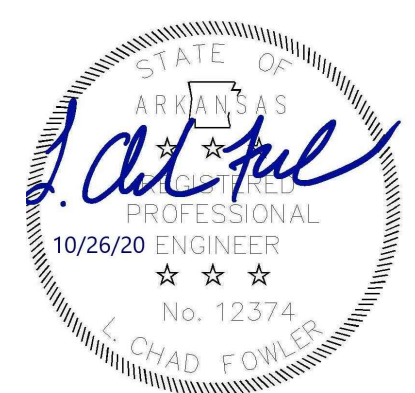
STRUCTURAL NOTES

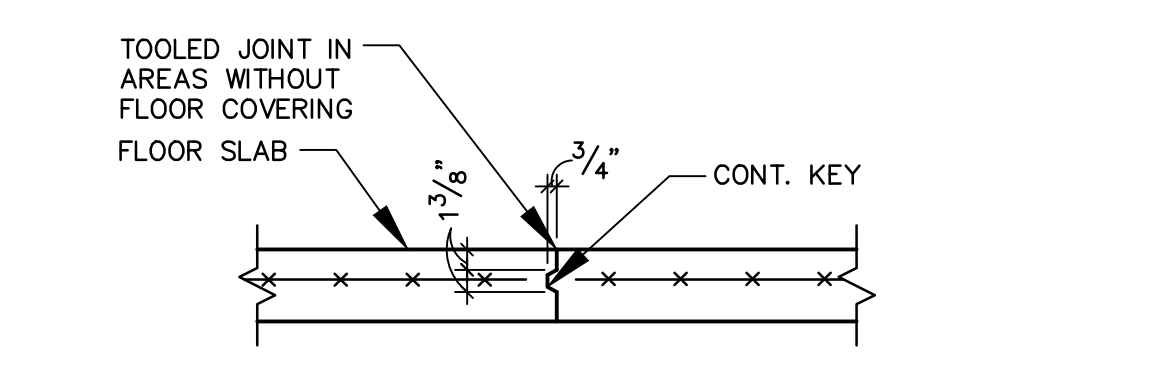
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SHEET NO.

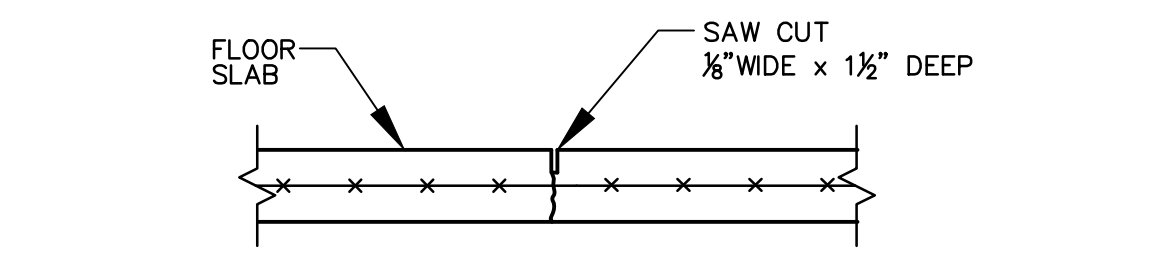


FOUNDATION PLAN
 1/4"=1'-0"



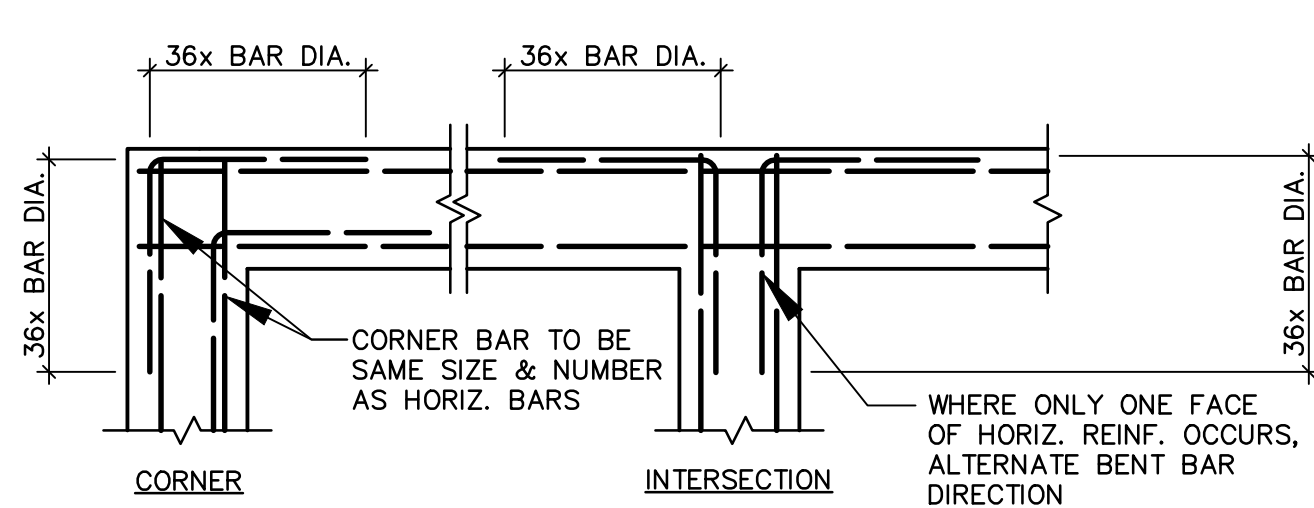


A TYPICAL CONSTRUCTION JOINT DETAIL
 (IF NEEDED BY CONTR.)



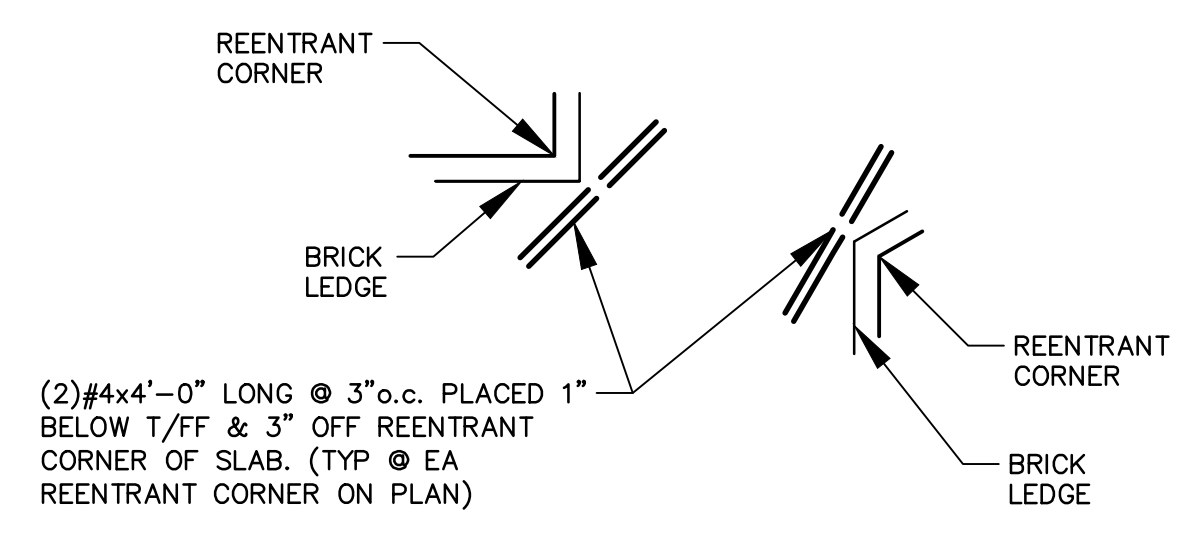
CONTR. CONTRACTOR IS RESPONSIBLE FOR JOINTS CRACKING AS SHOWN ON PLAN AND DETAIL. SAWING JOINTS SHALL BEGIN AS SOON AS THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE TORN OR DAMAGED BY THE BLADE. SLABS MUST BE SAWN ON SAME DAY SLAB IS POURED. DO NOT ALLOW SLAB TO CURE OVERNIGHT BEFORE SAWING.

B TYPICAL CONTROL JOINT DETAIL
 (SHOWN CJ ON PLAN)



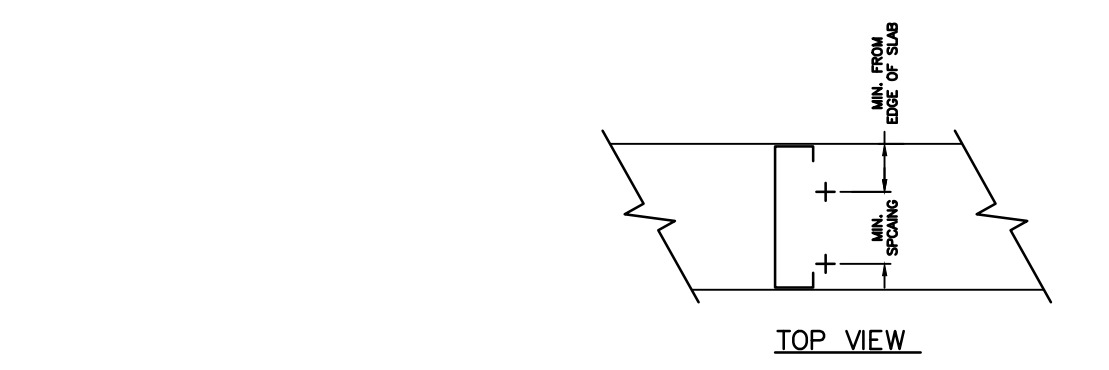
AS NEEDED FOR: CONC. FOOTINGS
 THICKENED SLABS
 CONC. FILLED BOND BEAMS
 CONCRETE WALLS

2 TYPICAL CORNER REBAR PLAN DETAIL
 N.T.S.

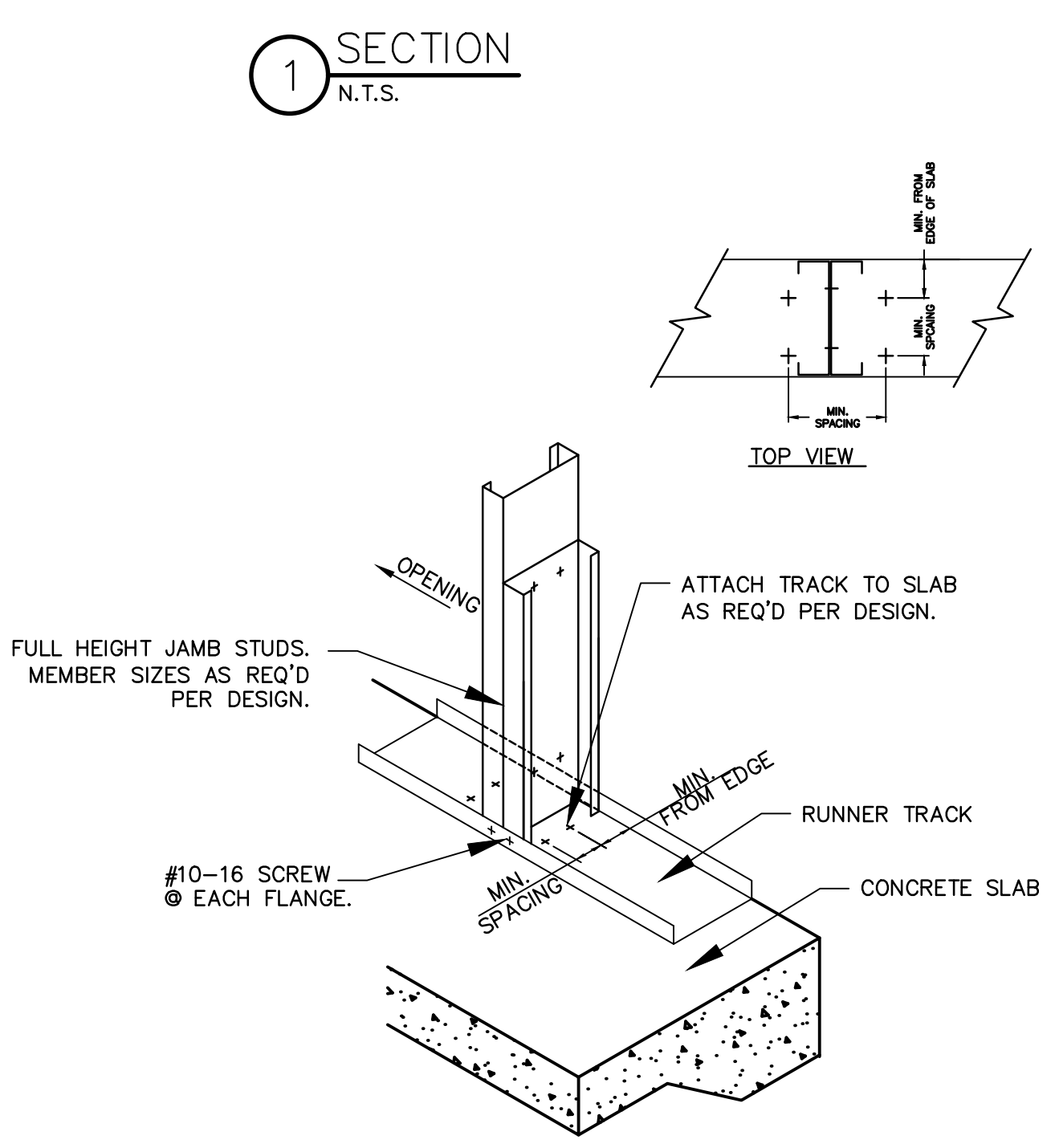


AS NEEDED FOR: CONC. FOOTINGS
 THICKENED SLABS
 CONC. FILLED BOND BEAMS
 CONCRETE WALLS

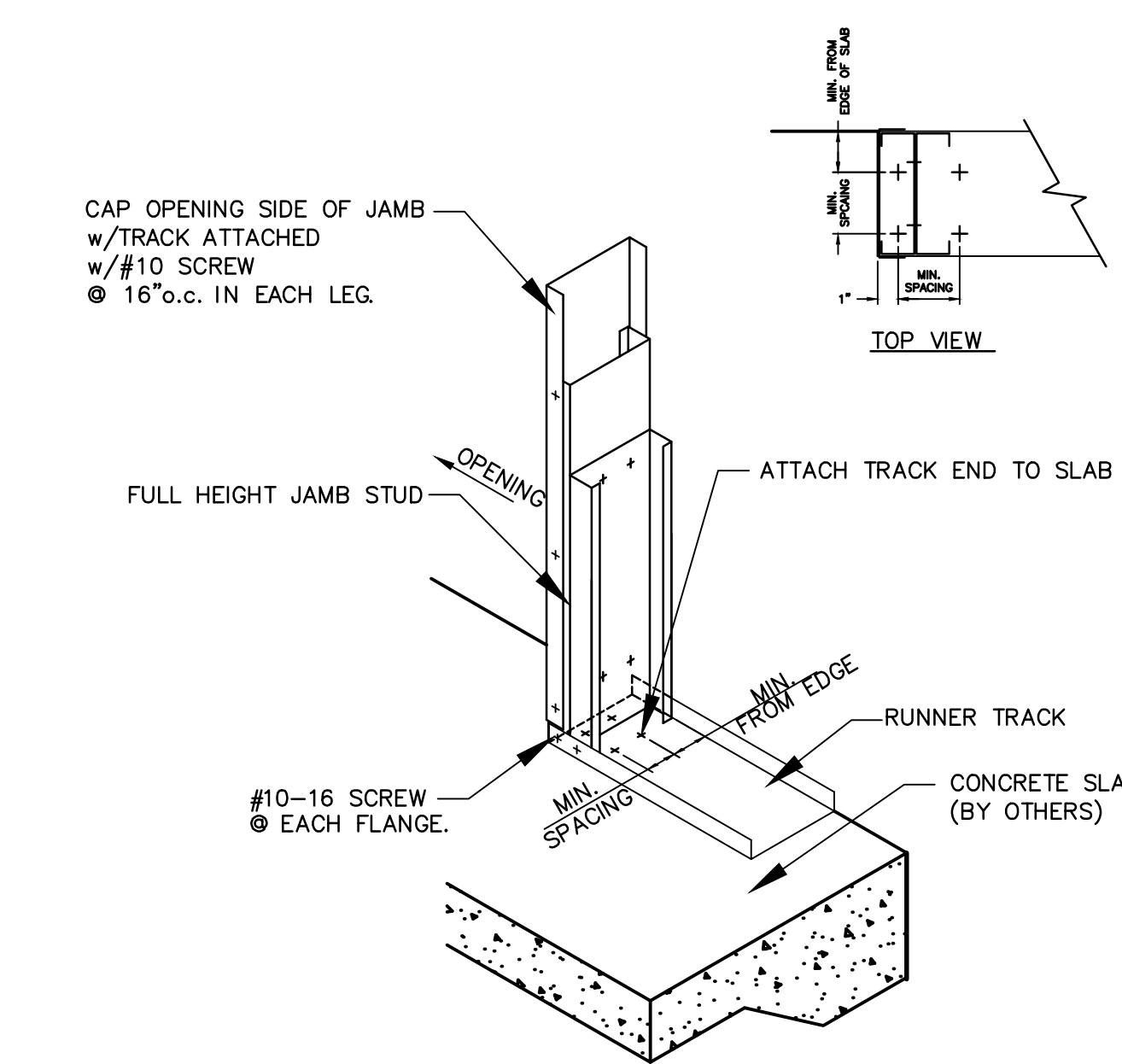
3 REENTRANT CORNER REBAR DETAIL
 N.T.S.



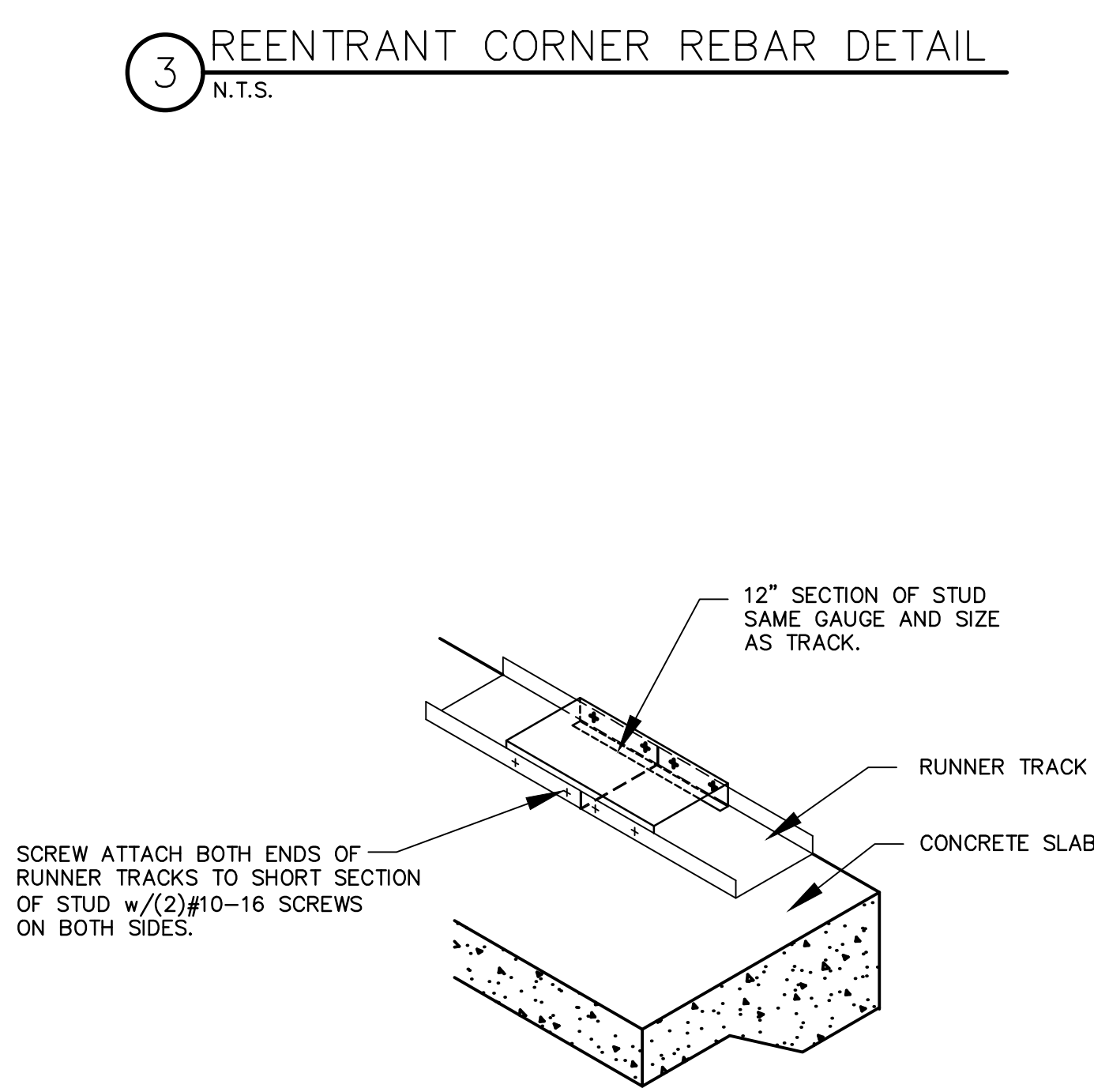
4 STUD WALL ANCHORAGE
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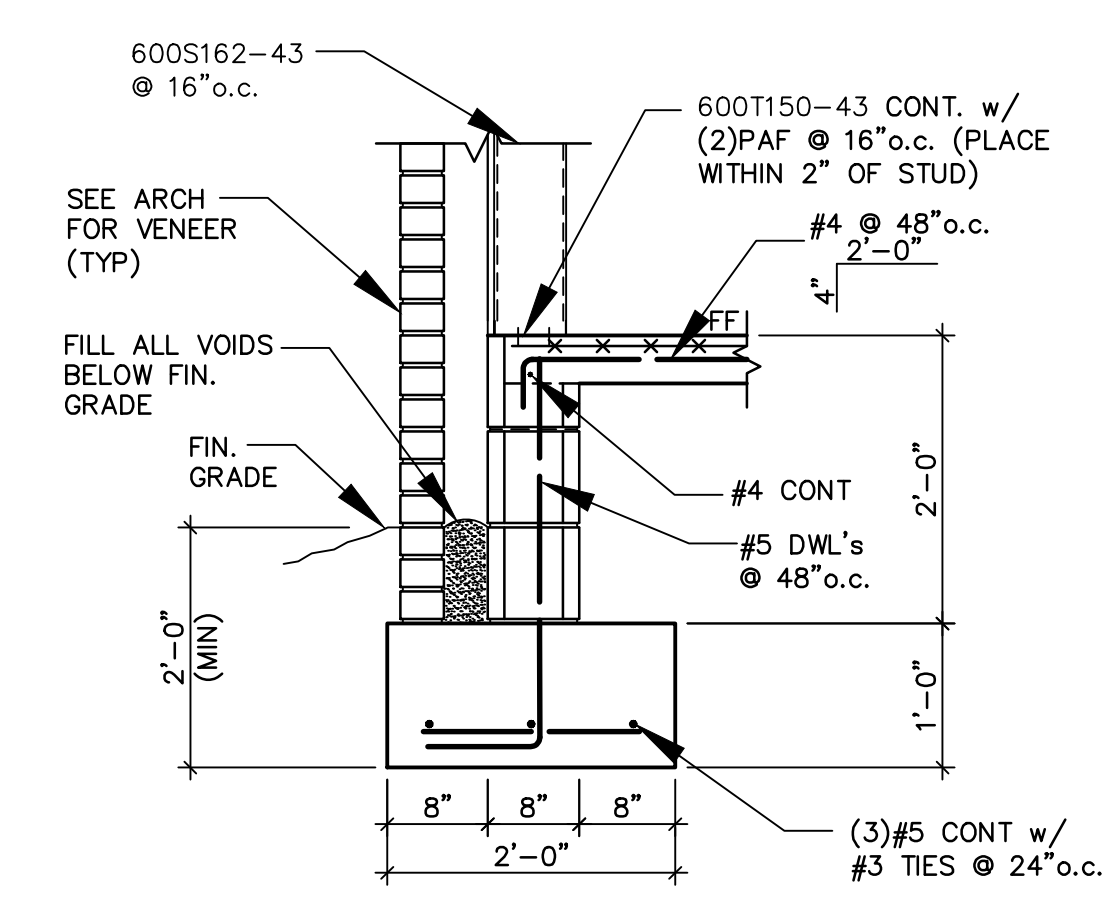
5 WINDOW JAMB ANCHORAGE
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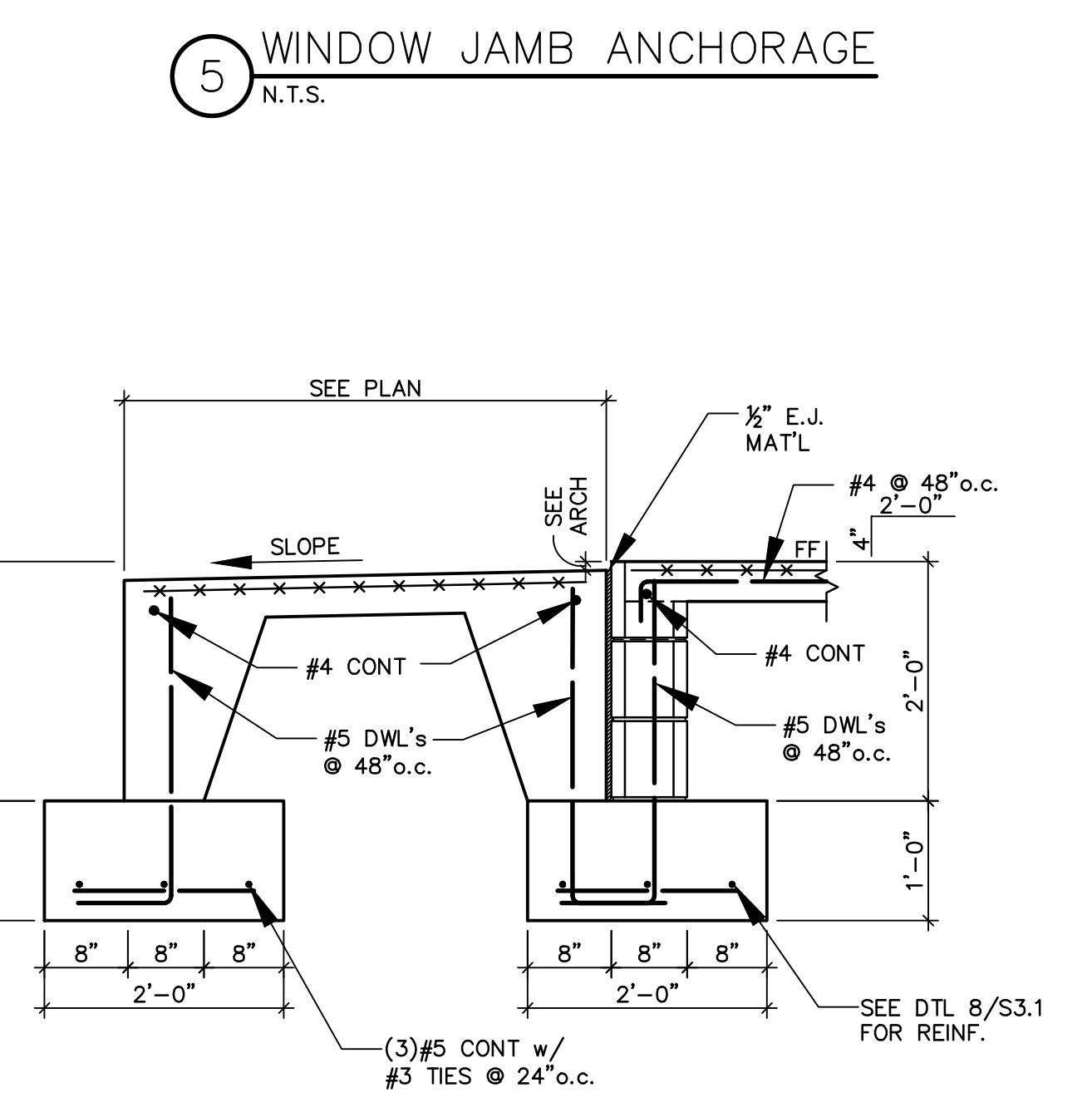
6 OPENING JAMB ANCHORAGE
 N.T.S.



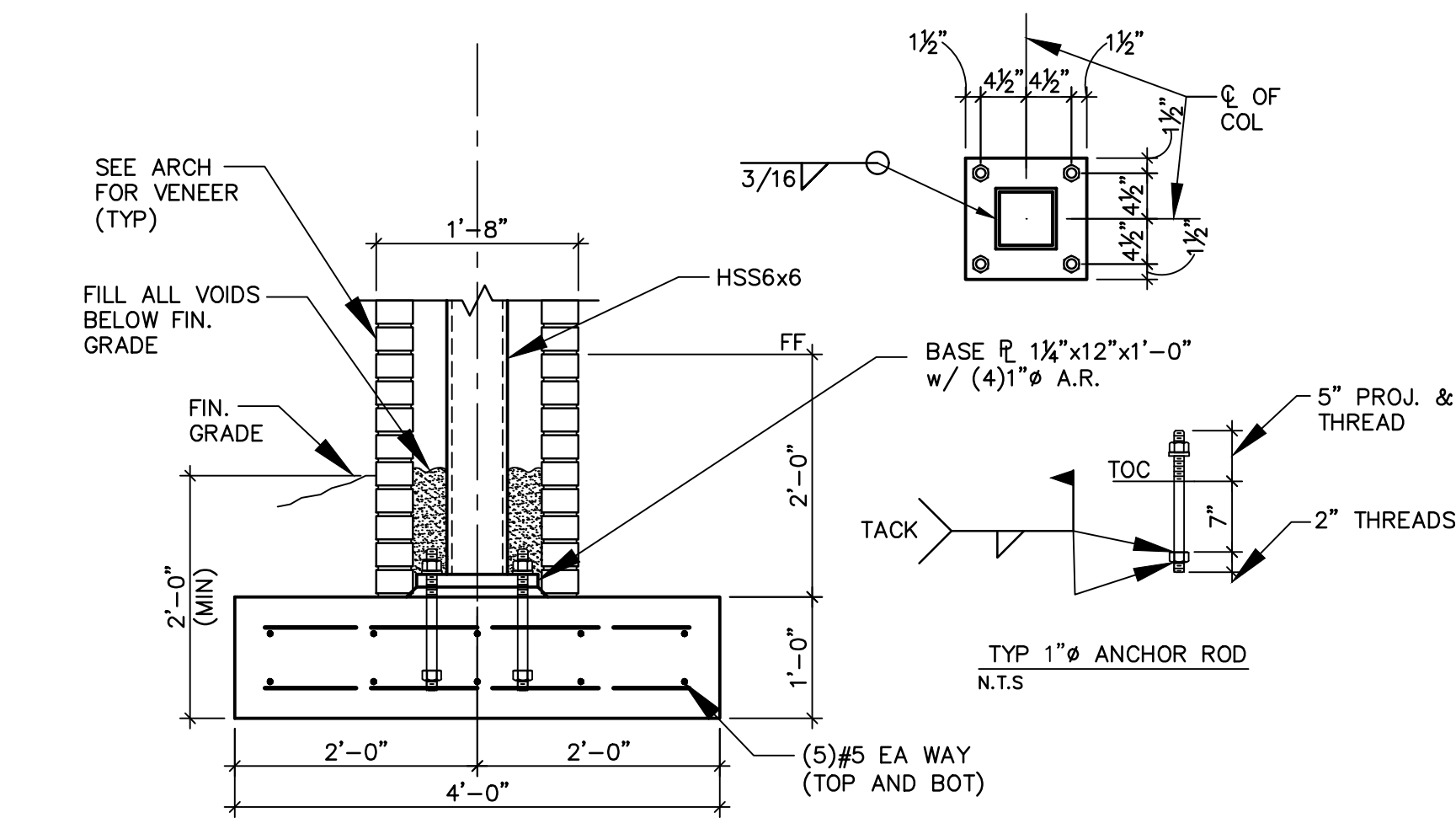
7 TRACK OVERLAP
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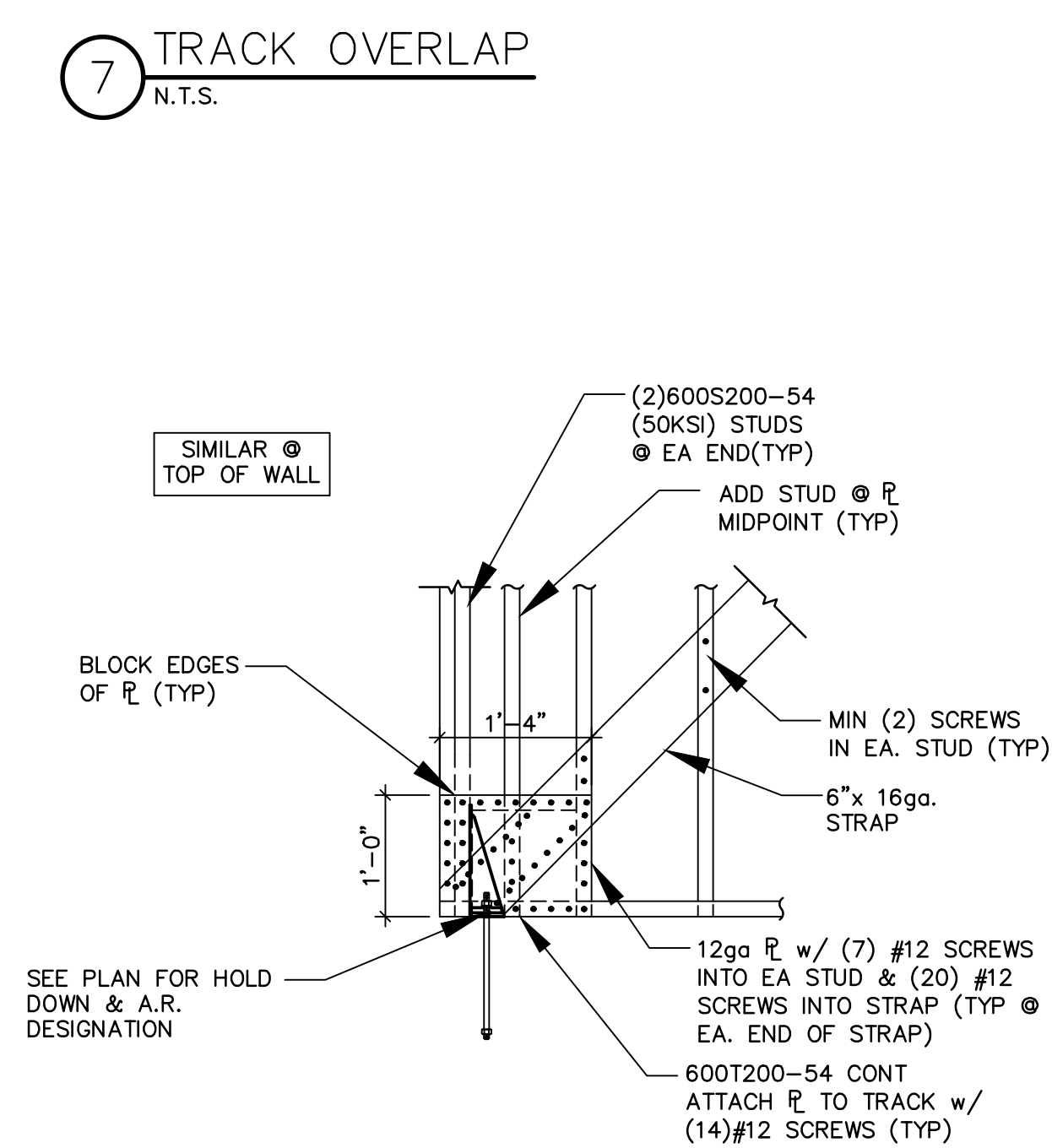
8 SECTION
 3/4"=1'-0"



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

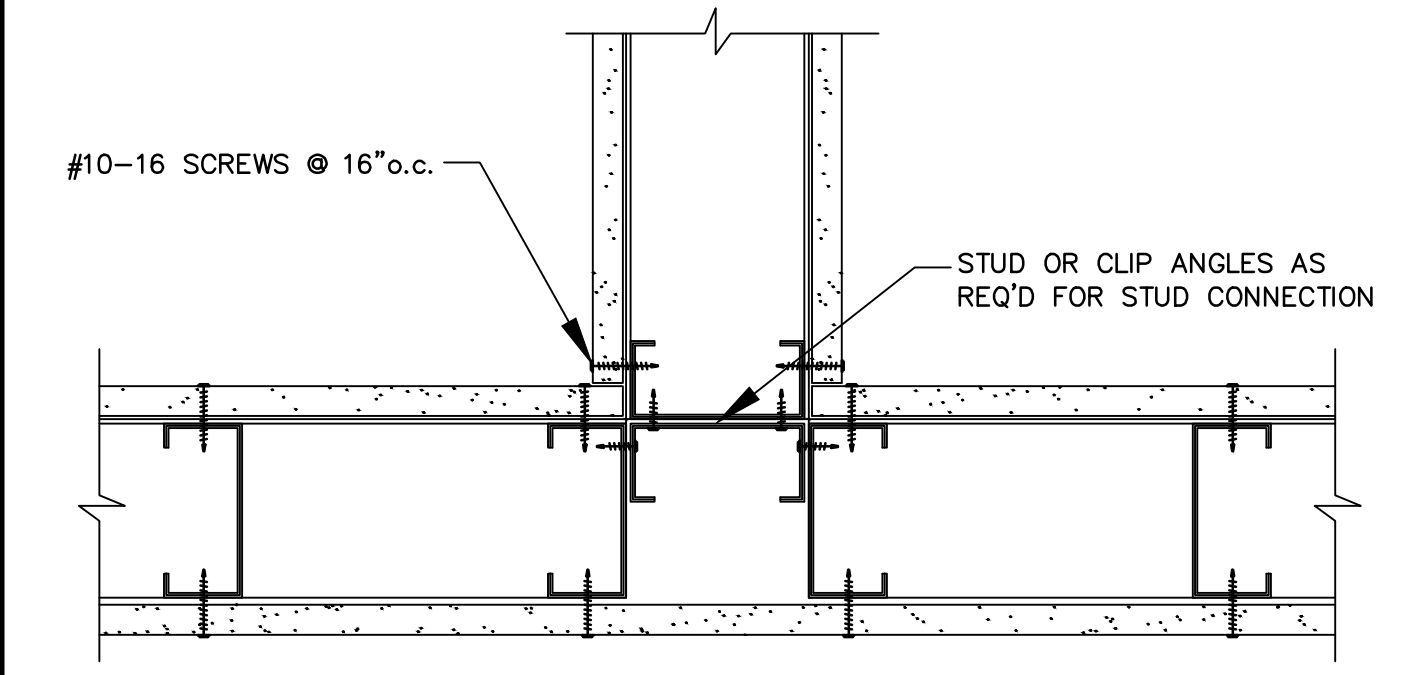
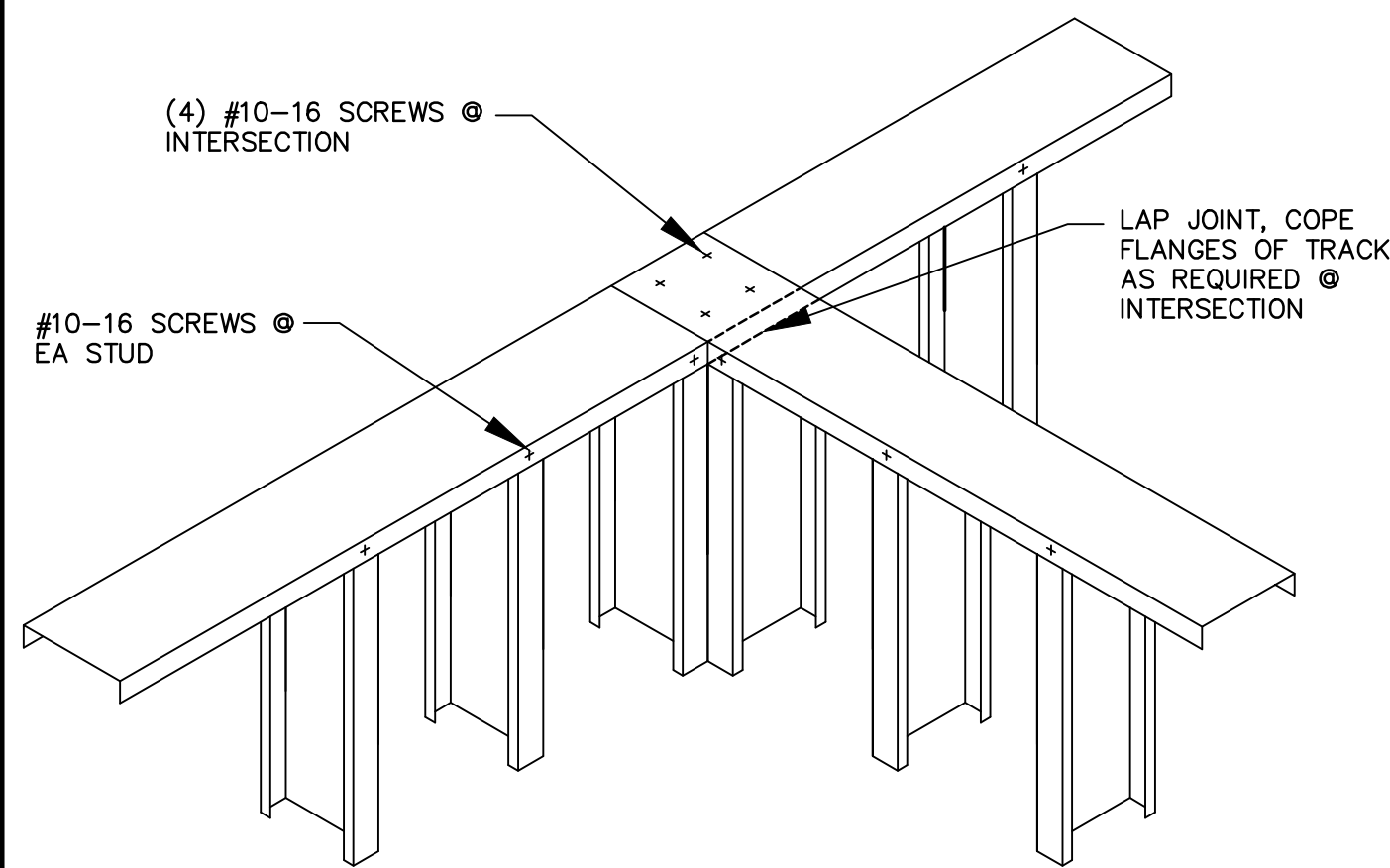


10 SECTION
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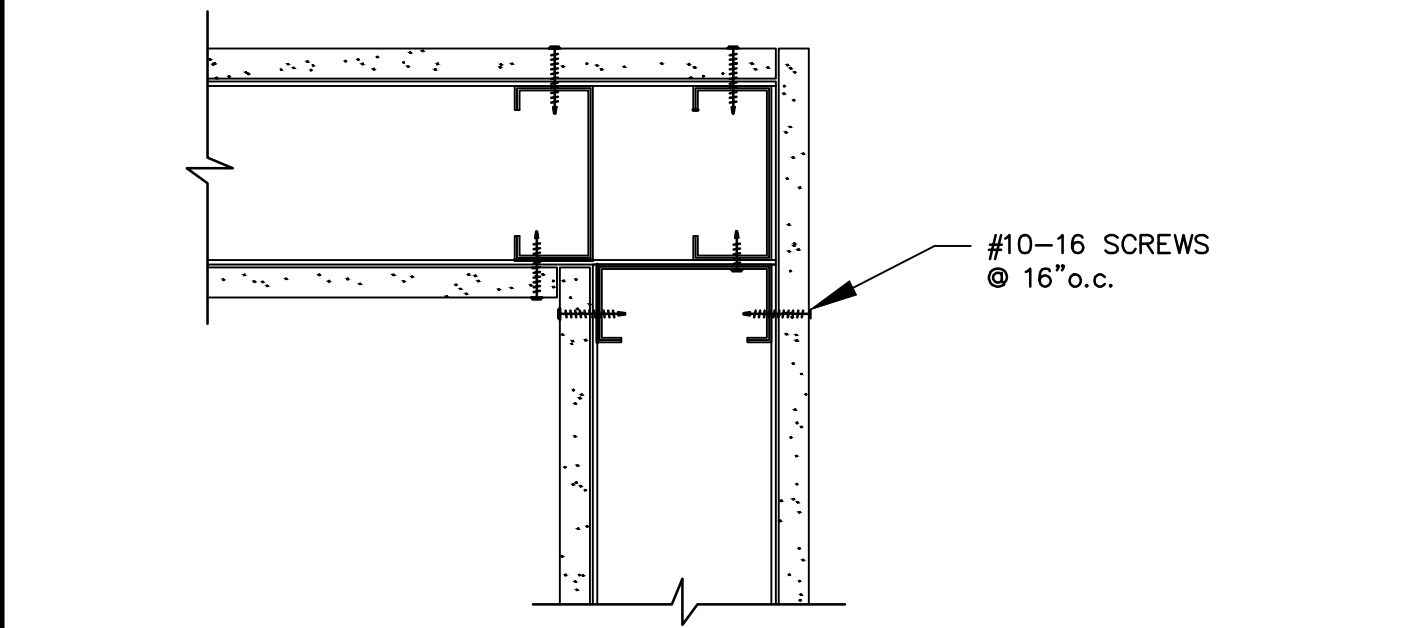
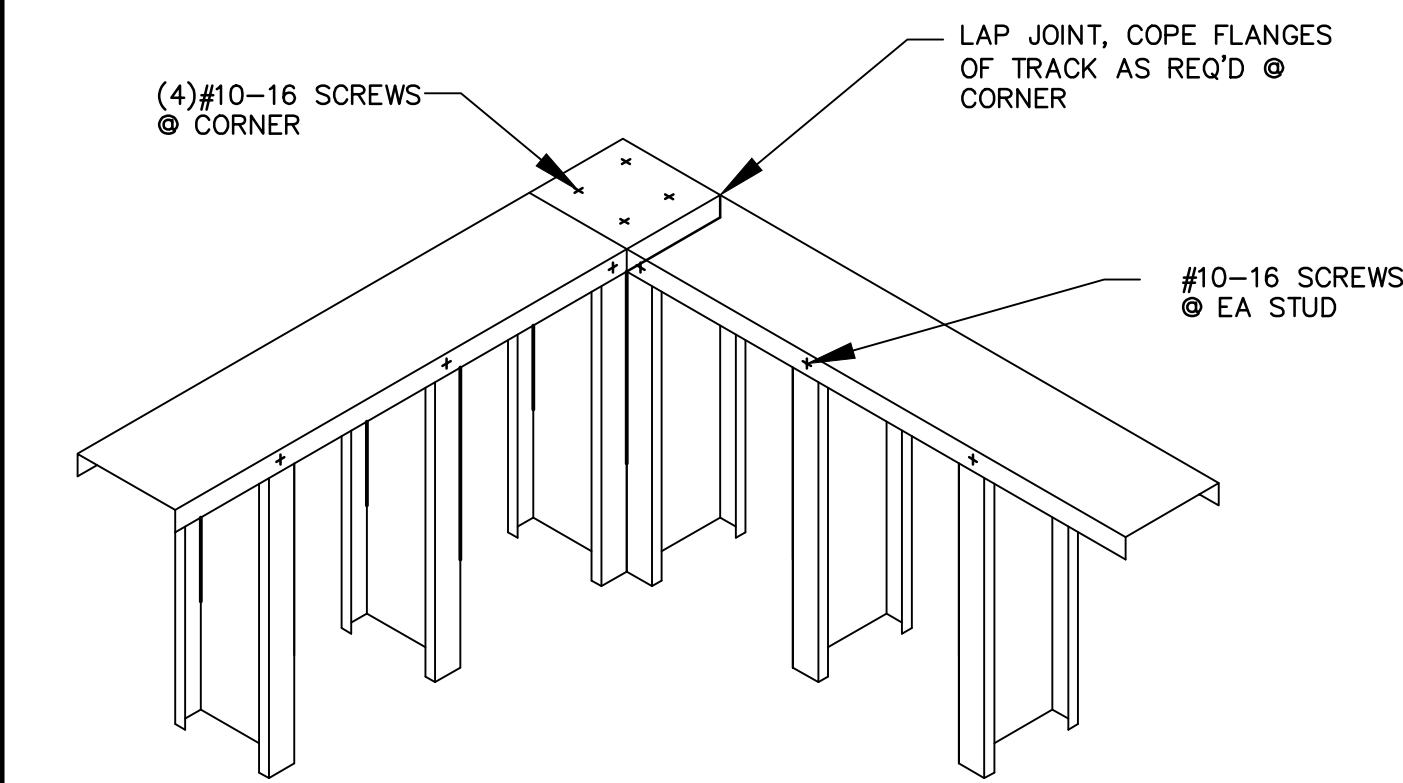


11 BRACE CONNECTION
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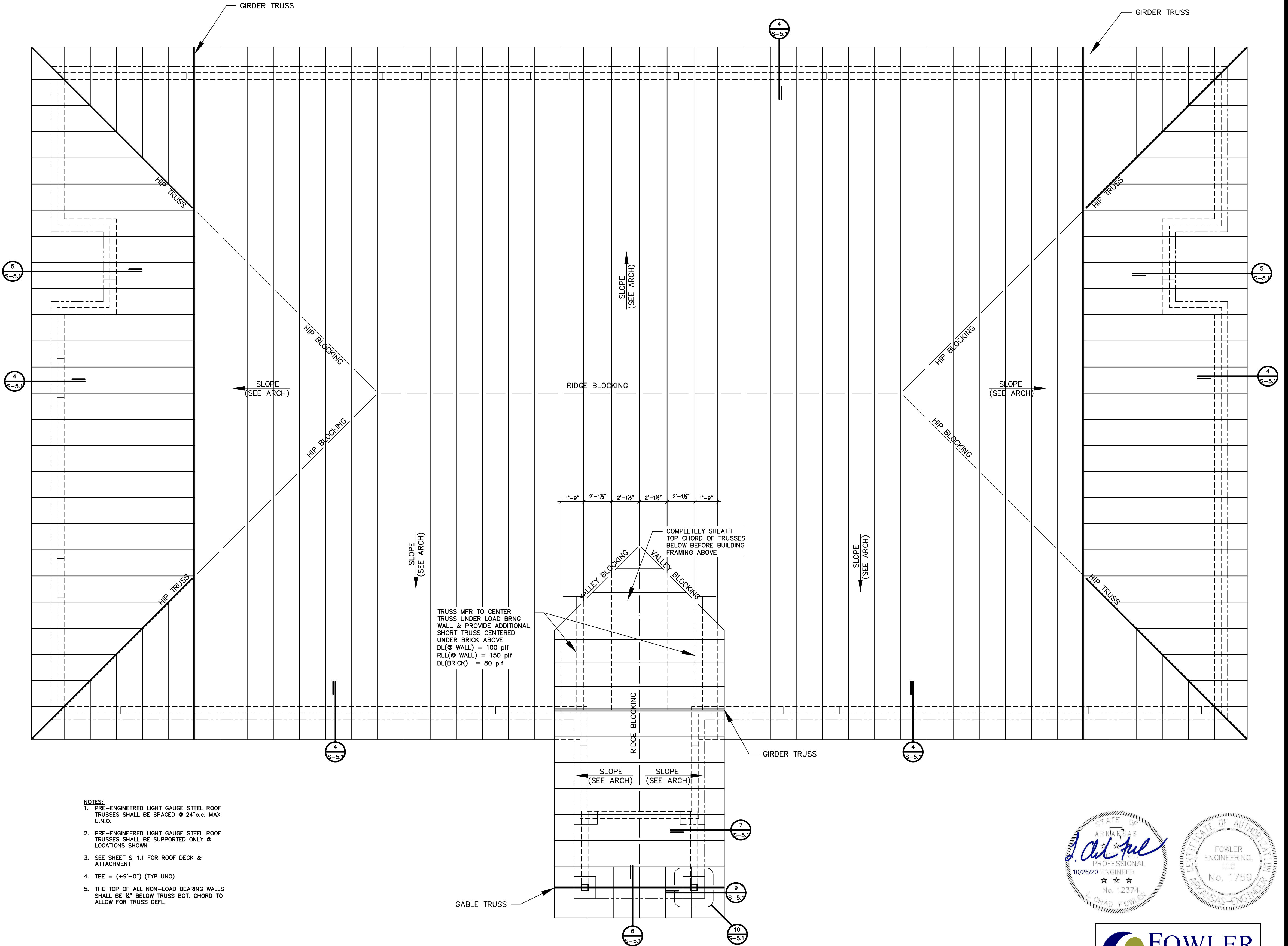


1 DETAIL
 N.T.S.

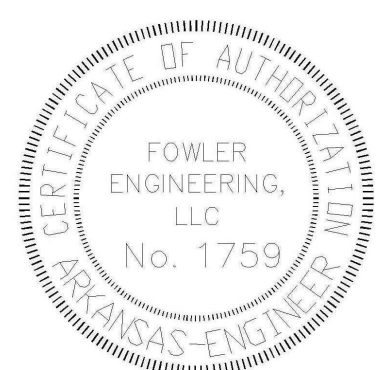
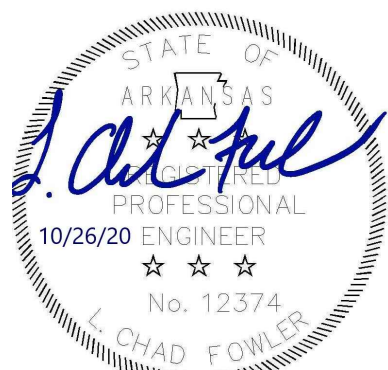


2 DETAIL
 N.T.S.

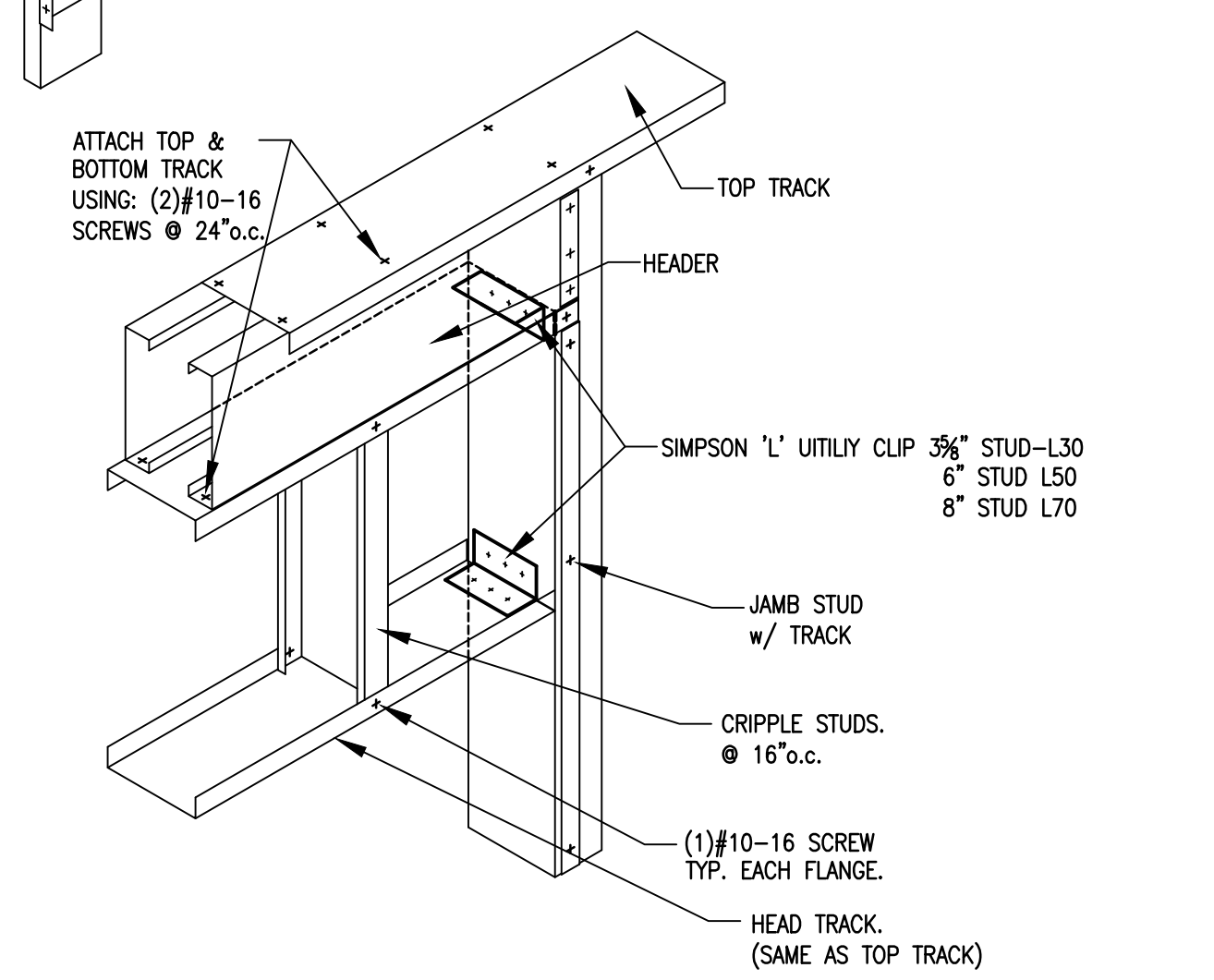
- NOTES:
1. PRE-ENGINEERED LIGHT GAUGE STEEL ROOF TRUSSES SHALL BE SPACED @ 24" o.c. MAX U.N.O.
 2. PRE-ENGINEERED LIGHT GAUGE STEEL ROOF TRUSSES SHALL BE SUPPORTED ONLY @ LOCATIONS SHOWN
 3. SEE SHEET S-1.1 FOR ROOF DECK & ATTACHMENT
 4. TBE = (+9'-0") (TYP UNO)
 5. THE TOP OF ALL NON-LOAD BEARING WALLS SHALL BE 4" BELOW TRUSS BOT. CHORD TO ALLOW FOR TRUSS DEFL.



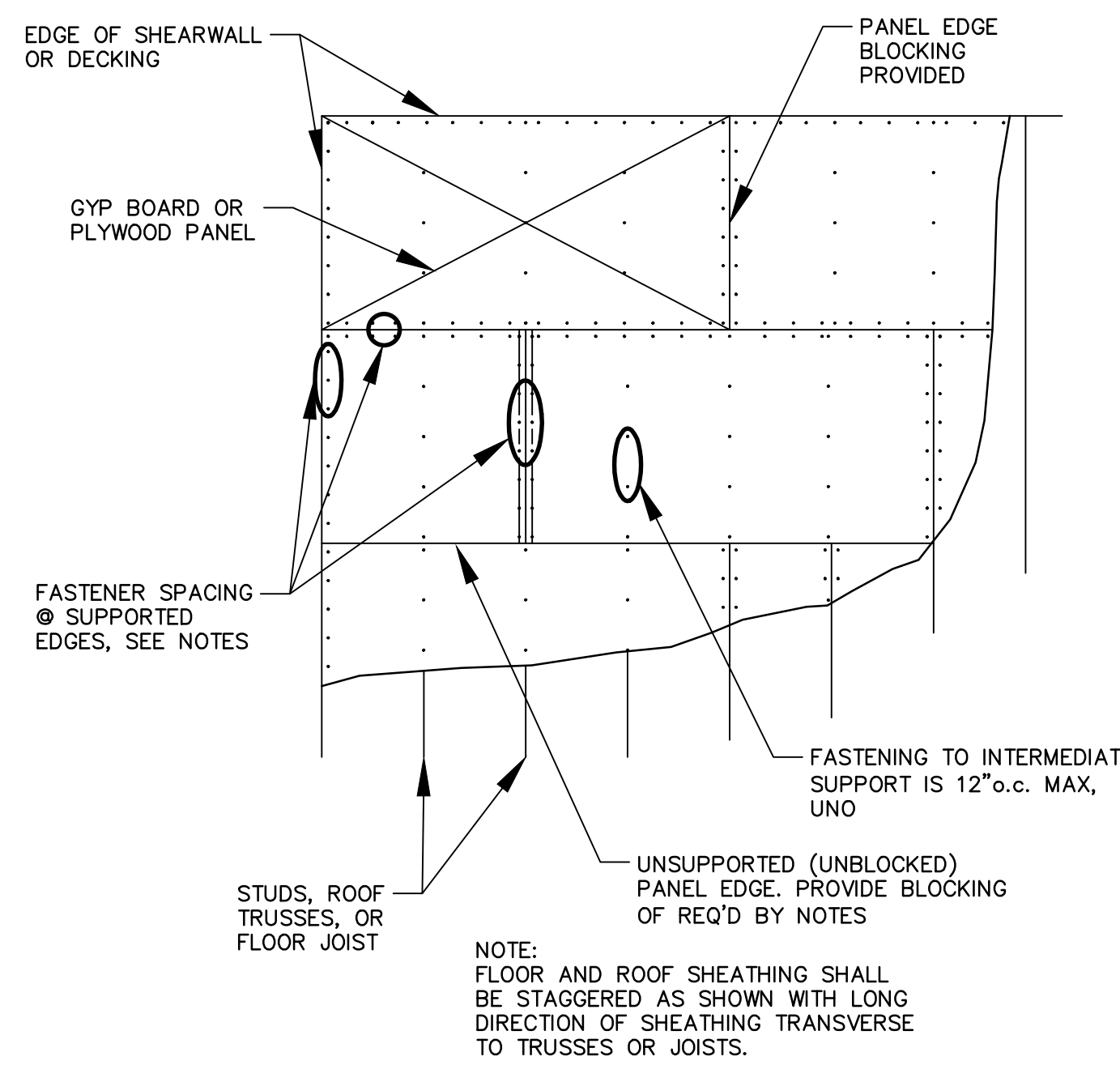
ROOF FRAMING PLAN
 1/4" = 1'-0"



HEADER SCHEDULE	
OPENING WIDTH	HEADER SIZE
UP TO 4'-0"	(2) 600S162-43 BOXED HEADER
4'-0" TO 6'-0"	(2) 800S162-54 BOXED HEADER
6'-0" TO 8'-0"	(2) 800S200-68 BOXED HEADER
8'-0" TO 11'-0"	(2) 1000S162-68 BOXED HEADER

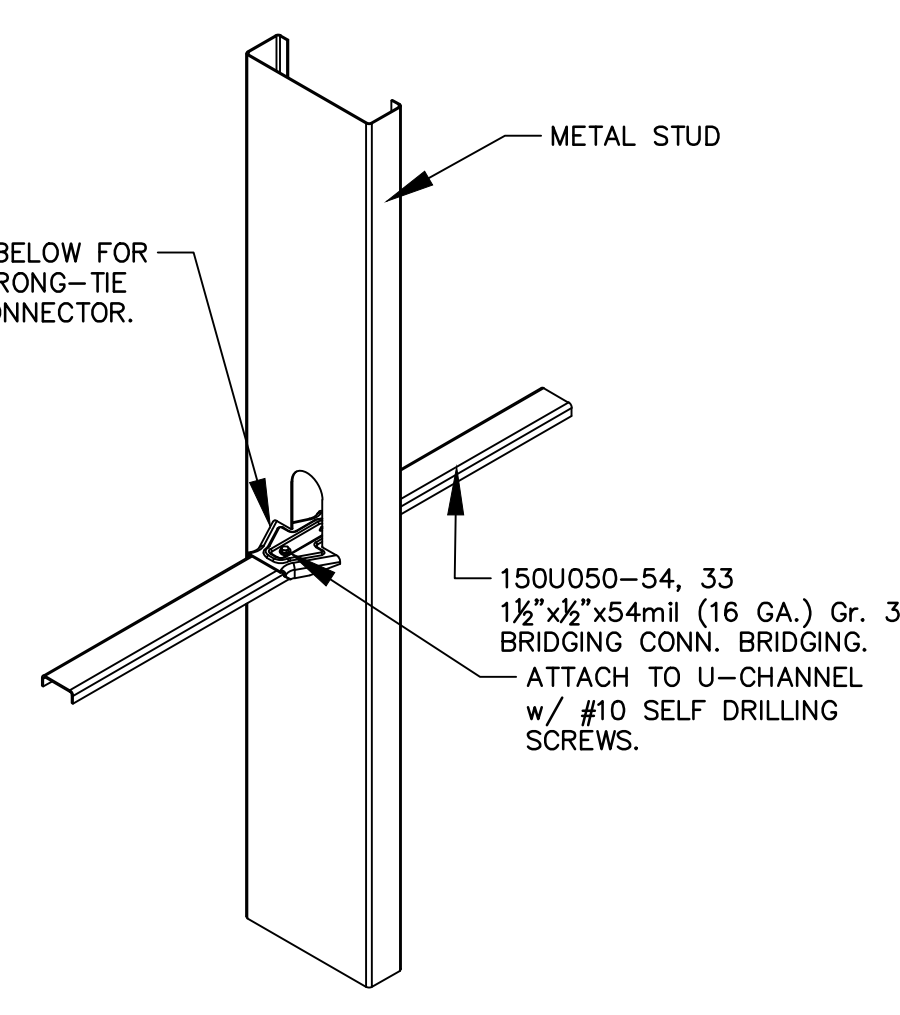


1 TYPICAL METAL STUD HEADER LOAD BEARING WALL - TWO MEMBER BOXED

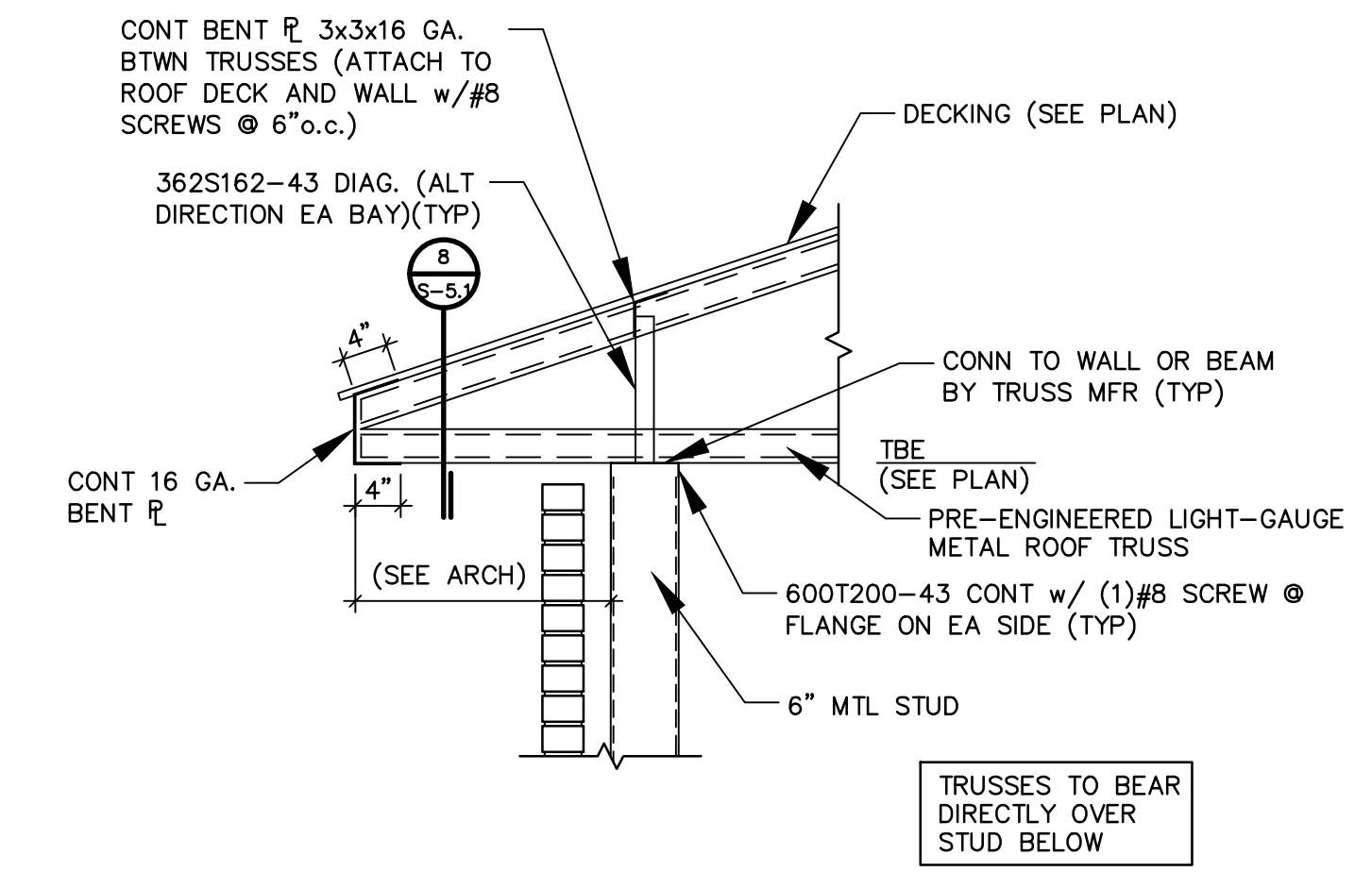


2 SHEAR WALL FASTENING REQUIREMENTS N.T.S.

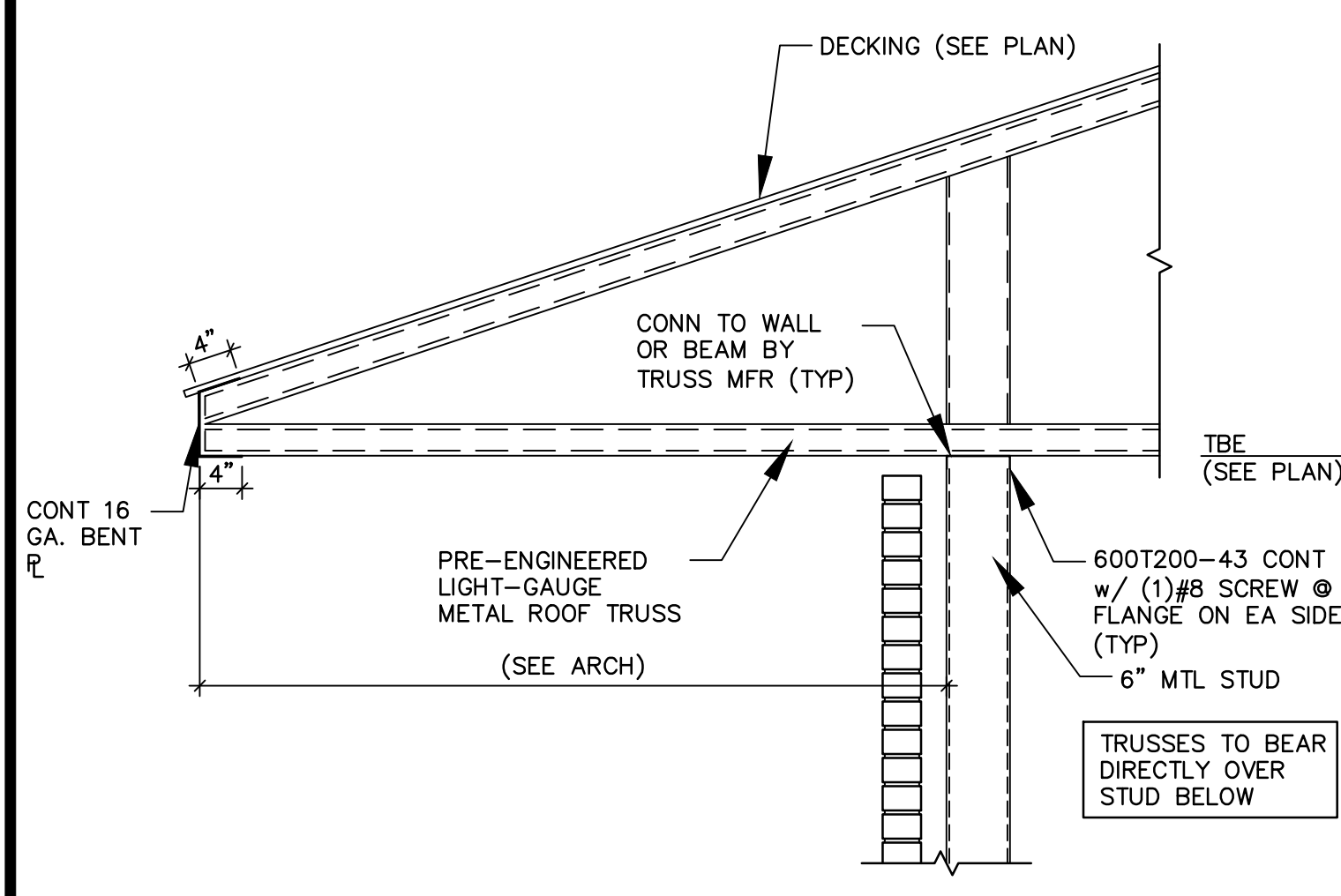
SIMPSON MODEL NO.	STUD DEPTH (IN.)	STUD THICKNESS MIL (GA.)
SUBH3.25	6"	33(20) 43(18)
MSUBH3.25	6"	54(16) 68(14) 97(12)



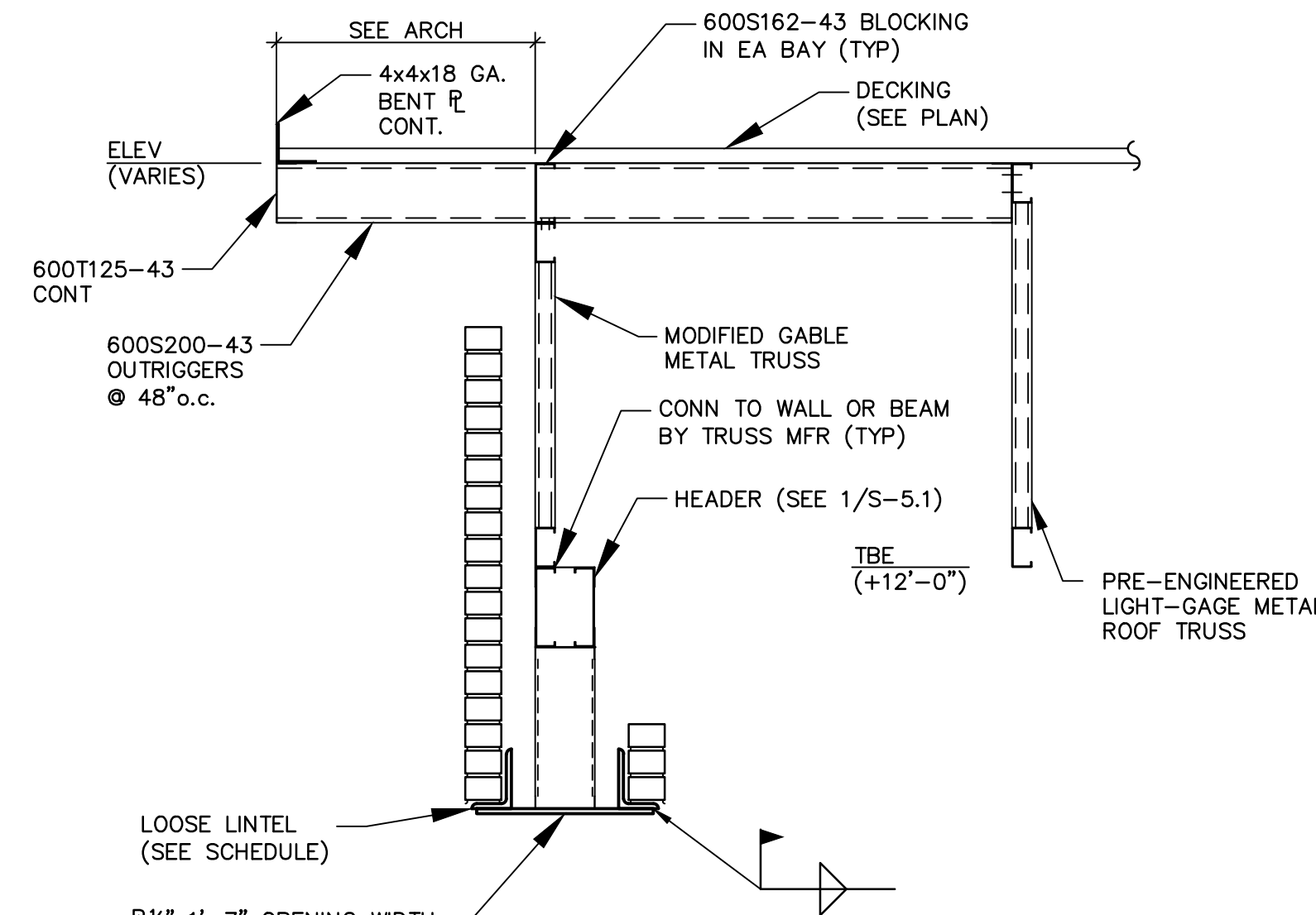
3 TYPICAL BRIDGING DETAIL N.T.S.



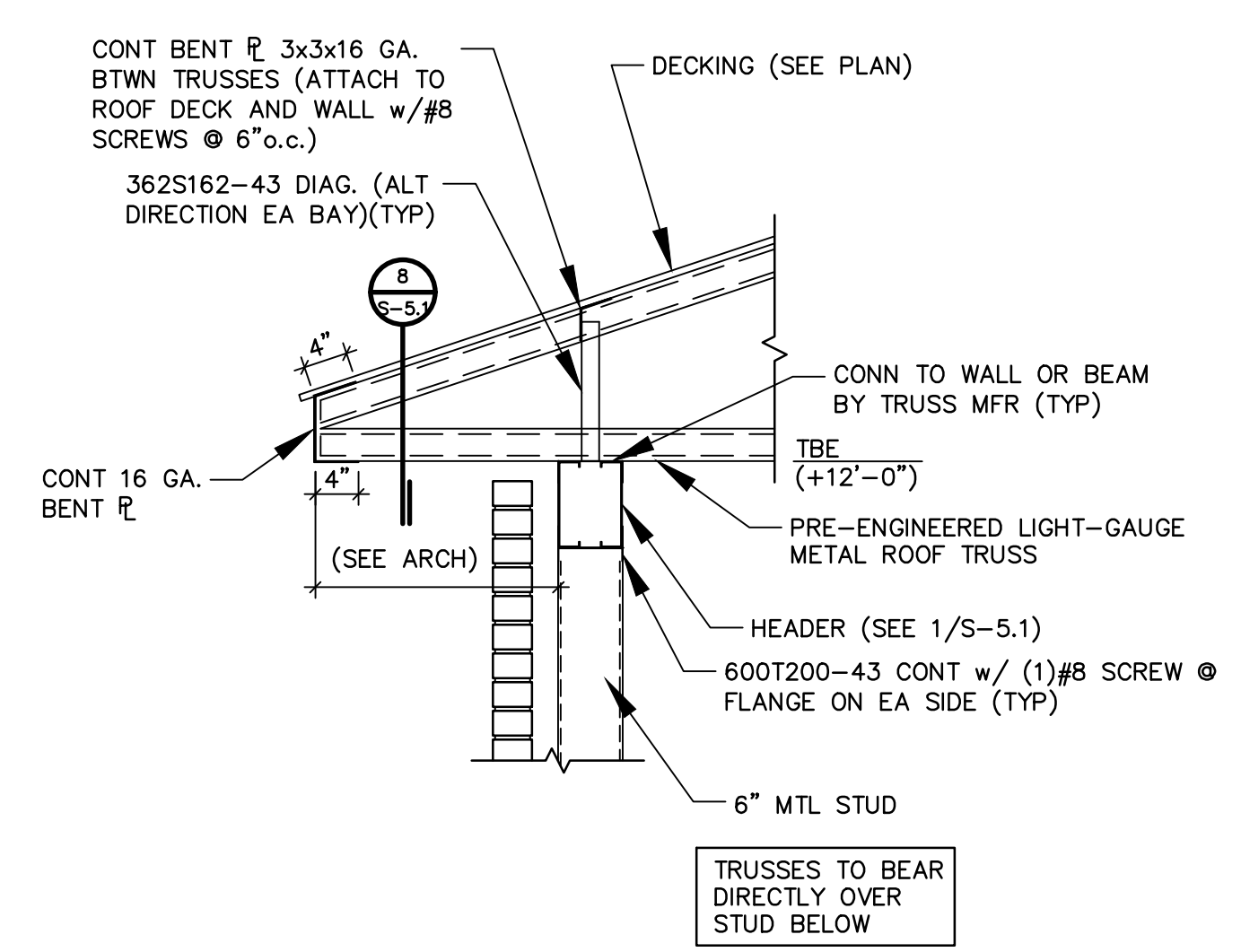
4 SECTION 3/4"=1'-0"



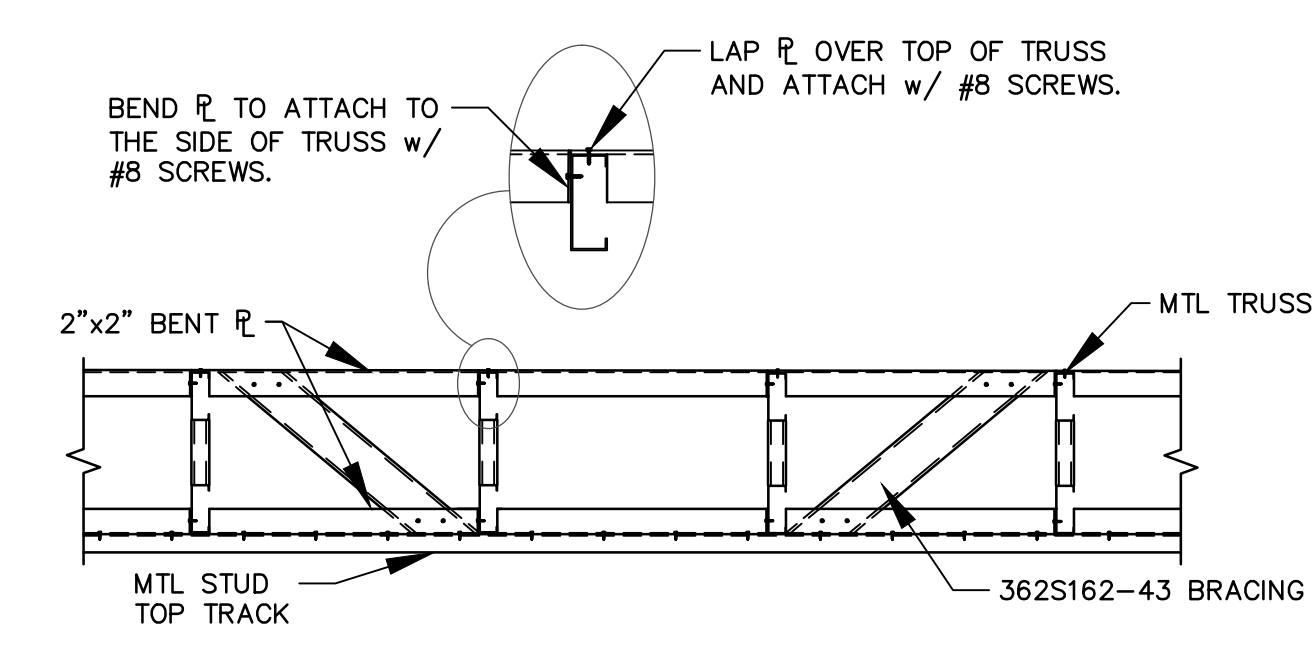
5 SECTION 3/4"=1'-0"



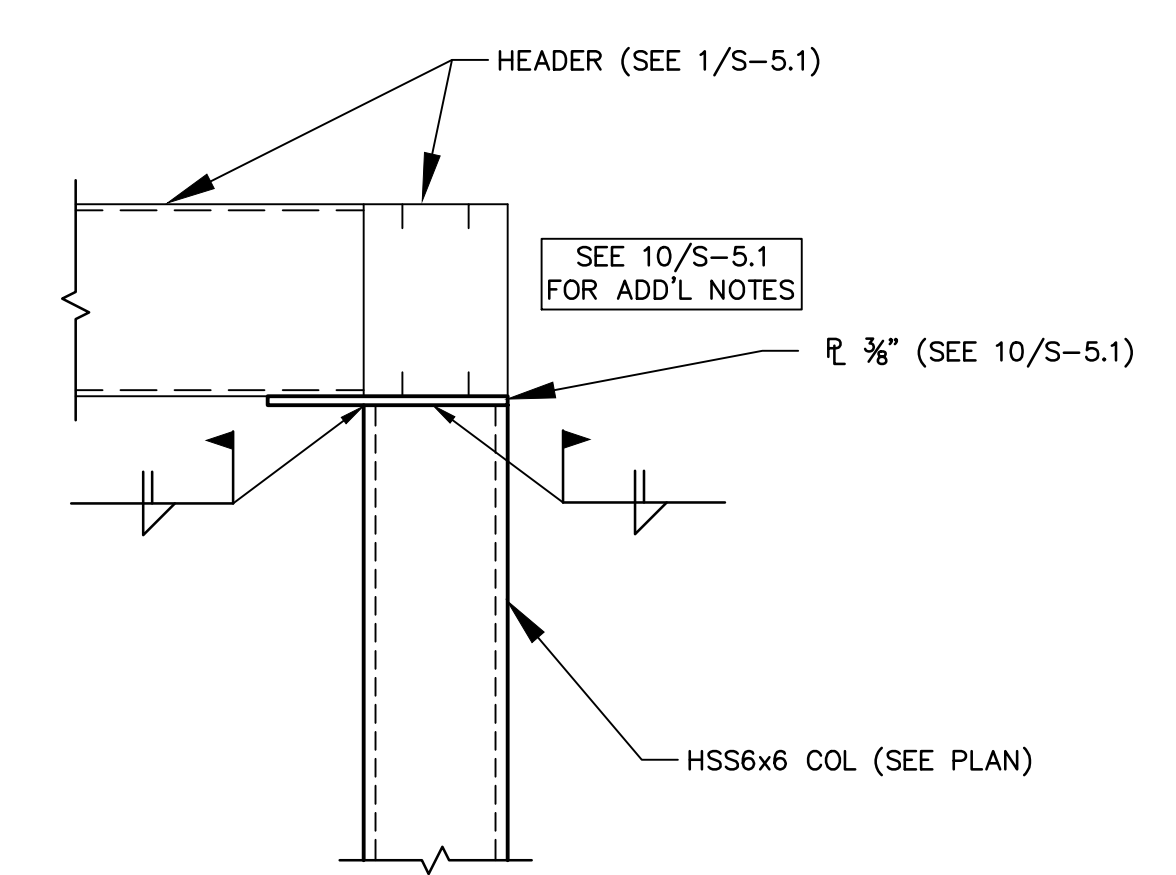
6 SECTION 3/4"=1'-0"



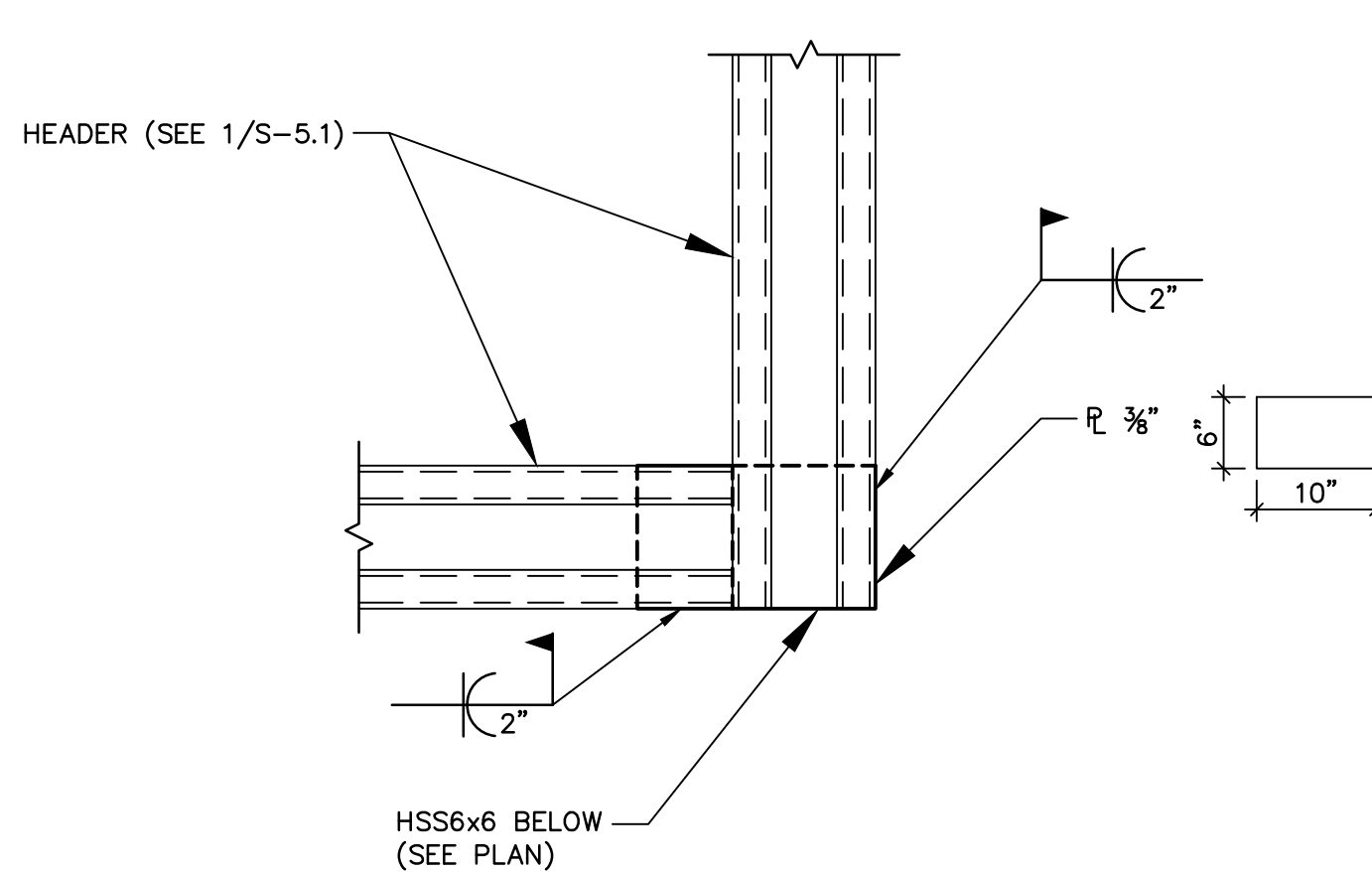
7 SECTION 3/4"=1'-0"



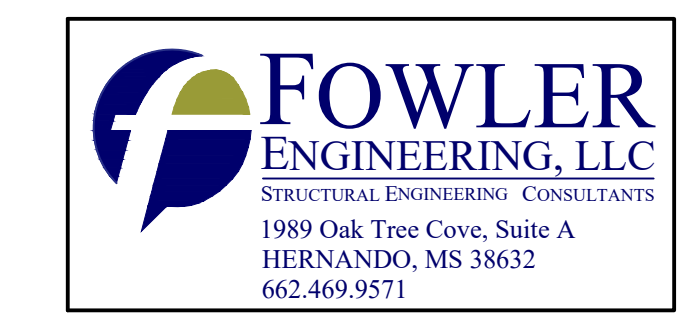
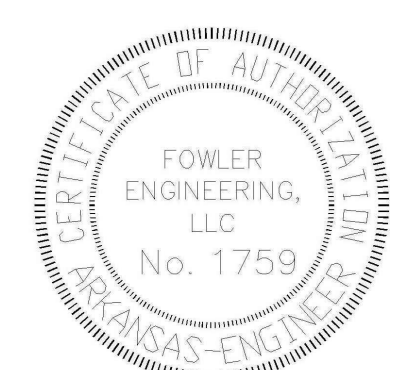
8 SECTION 3/4"=1'-0"

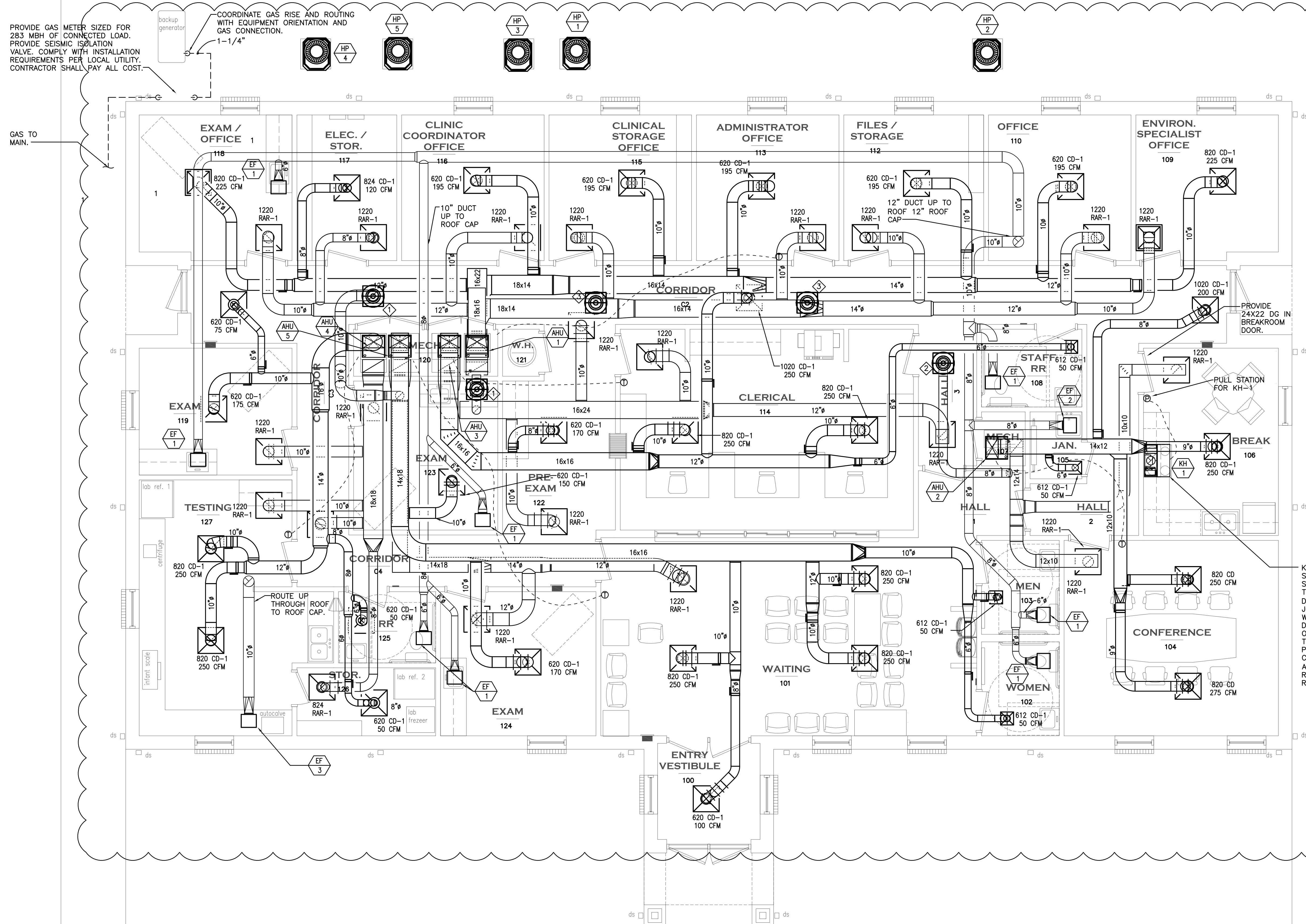
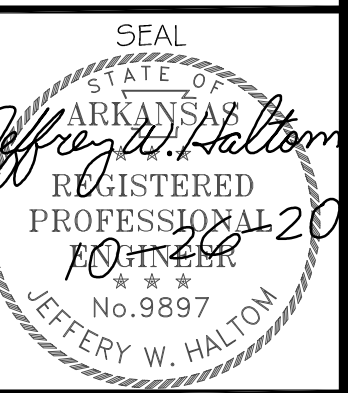


9 SECTION 1 1/2"=1'-0"



10 SECTION 1 1/2"=1'-0"





GENERAL NOTES

- INSULATE ALL DUCTWORK, SUPPLY, RETURN, AND EXHAUST, PER SPECIFICATIONS.
- PROVIDE BALANCING DAMPERS IN SUPPLY AND RETURN DUCT RUNOUTS TO DIFFUSERS IN ACCESSIBLE LOCATION. PROVIDE REMOTE OPERATORS EQUAL TO YOUNG REGULATORS 830ACC2: RECTANGULAR OBD - CABLE IN AIR STREAM DAMPER, OR 5020CC2 ROUND - CABLE CONTROL INSIDE AIR STREAM DAMPER AND ALL PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
- USE LOW PROFILE ROOF JACKS FOR ALL ROOF PENETRATIONS, UNLESS OTHERWISE NOTED. COORDINATE ALL ROOFTOP EQUIPMENT WITH THE ARCHITECT AND ENGINEER BEFORE ORDERING.
- DUCTWORK IS ROUTED IN A TRUSS SPACE. CONTRACTOR SHALL COORDINATE DUCT ROUTING WITH STRUCTURAL TRUSSES. DUCTWORK SHALL SLOPE WITH WITH ROOF STRUCTURE WHERE NECESSARY TO ALLOW FOR ADEQUATE SPACE FOR DUCTWORK. COORDINATE ROUTING WITH ALL OTHER SYSTEMS, TRADES, AND SITE CONDITIONS.

KEYNOTES (THIS SHEET):

- 1 PROVIDE ROOF HOOD EQUAL TO GREENHECK GR51-10. PROVIDE ROOF CURB 14" TALL ON THE SHORTEST SIDE. DUCT DOWN 12X12 PLENUM DUCT AND TAP 8" ROUND OUTSIDE AIR DUCT TO THE RETURN SIDE OF THE AHU AS CLOSE AS POSSIBLE TO THE UNIT RETURN AIR OPENING. PROVIDE MOTORIZED DAMPER IN 8" DUCT SECTION BEFORE TAPPING INTO EACH UNIT.
- 2 PROVIDE ROOF HOOD EQUAL TO GREENHECK GR51-10. PROVIDE ROOF CURB 14" TALL ON THE SHORTEST SIDE. DUCT DOWN AND TAP 8" ROUND OUTSIDE AIR DUCT TO THE RETURN SIDE OF THE AHU AS CLOSE AS POSSIBLE TO THE UNIT RETURN AIR OPENING. PROVIDE MOTORIZED DAMPER IN 8" DUCT SECTION BEFORE TAPPING INTO EACH UNIT.
- 3 PROVIDE AND INSTALL SOLAR ATTIC FAN EQUAL TO REMINGTON SOLAR SF-30 WITH THERMOSTAT AND HUMIDISTAT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL ACCESSORIES NECESSARY FOR A COMPLETE AND WORKING SYSTEM. SYSTEM SHALL ENERGIZE WHEN WHEN RELATIVE HUMIDITY IS GREATER THAN 60%. PROVIDE 110V HYBRID ADAPTER FOR EXTENDED OPERATION.

KITCHEN EXHAUST HOOD. PROVIDE ELECTRICAL SHUNT TO SHUTOFF STOVE ON ACTIVATION OF FIRE SUPPRESSION SYSTEM. DUCT SHALL BE CONSTRUCTED AND INSTALLED SO THAT GREASE CANNOT COLLECT IN ANY PORTION. SLOPE THE DUCT BACK TO THE HOOD A MINIMUM OF 1/4" PER 12". ALL JOINTS SHALL BE MADE WITH A CONTINUOUS LIQUID TIGHT WELD OR BRAZE MADE ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM. DUCT SHALL BE INSTALLED PER SECTION 505 OF THE IMC AND THE AUTHORITY HAVING JURISDICTION. SLOPE THE DUCTWORK TO THE SOUTH SIDE OF THE BUILDING AND PENETRATE THE ROOF ON THE BACK SIDE OF THE BUILDING. COORDINATE THE EXACT PENETRATION LOCATION WITH THE ARCHITECT AND ENGINEER. ROUTE 10" DUCT UP THROUGH ROOF AND PROVIDE ROOF CAP EQUAL TO GREENHECK RJ-10X10 FOR TERMINATION.

FLOOR PLAN - MECHANICAL

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

THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION WITH ALL TRADES, EXISTING CONDITIONS, AND ARCHITECTURAL DOCUMENTS INCLUDING REFLECTED CEILING PLANS, IS REQUIRED. NOT ALL OFFSETS AND ADJUSTMENTS ARE INDICATED.

PROVIDE GAS METER SIZED FOR 283 MBH OF CONNECTED LOAD. PROVIDE SEISMIC ISOLATION VALVE. COMPLY WITH INSTALLATION REQUIREMENTS PER LOCAL UTILITY. CONTRACTOR SHALL PAY ALL COST.

GAS TO MAIN.

HEAT PUMP AIR HANDLING UNITS

TAG	SERVING AREA	Qty	MANUFACTURE	Model	ELECTRICAL				SUPPLY FAN				COOLING CAPACITY				HEAT PUMP OUTPUT CAPACITY @ 17 (°F) (BTUH)	HGRH NET SENSIBLE CAPACITY (BTUH)	ELECTRIC HEAT @ 208			UNIT WEIGHT (LB)		
					VOLTAGE	MCA (A)	MOPC (A)	SUPPLY AIR (CFM)	FRESH AIR (CFM)	ESP (inH2O)	Motor Power (HP)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	NET TOTAL CAPACITY (BTUH)			NET SENSIBLE CAPACITY (BTUH)	SST (°F)	TEMP RISE (°F)		HEAT (KW)	STAGES
AHU-1	SEE PLANS	1	LENNOX	CBA27UHE-048	208/60/3	62	70	1546	156	0.54	1.00	80.0	67.0	57.5	56.8	44706	33493	45	51292	34012	30.7	20.0	2	186
AHU-2	SEE PLANS	1	LENNOX	CBA27UHE-042	208/60/3	49	50	1030	103	0.57	1.00	80.0	67.0	55.3	55.3	32573	23456	45	32058	22660	34.8	15.0	2	186
AHU-3	SEE PLANS	1	LENNOX	CBA27UHE-042	208/60/3	62	70	1244	125	0.66	1.00	80.0	67.0	56.5	56.3	33167	24618	45	51292	27368	42.3	20.0	2	186
AHU-4	SEE PLANS	1	LENNOX	CBA25UHV-030	208/60/1	61	70	885	86	0.65	0.50	80.0	67.0	58.2	57.5	22083	17152	45	25646	19470	37.1	12.5	2	143
AHU-5	SEE PLANS	1	LENNOX	CBA27UHE-042	208/60/3	62	70	1244	125	0.65	1.00	80.0	67.0	56.5	56.3	33173	24630	45	51292	27368	42.2	20.0	2	186

- NOTES:
- AHUS SHALL HAVE INSULATION.
 - AHU SHALL HAVE 2" FILTER SECTION, DX/HP COIL WITH TXVS, FAN SECTION, ELECTRIC HEAT.
 - SINGLE POINT POWER CONNECTION. ELECTRIC HEATER SHALL HAVE CIRCUIT BREAKER.
 - PROVIDE REFRIGERANT SPECIALTIES.
 - CONTRACTOR SHALL PROVIDE EXTERNAL AUXILIARY DRAIN PAN.
 - PROVIDE PROGRAMMABLE THERMOSTAT WITH WALL PLATE AND OUTDOOR AIR SENSOR.
 - PROVIDE CONDENSATE FLOAT SWITCH.
 - PROVIDE UL-2998 LISTED IONIZER WITH AUTOMATIC CLEANING FUNCTION.

AIR COOLED HEAT PUMP UNITS

TAG	SERVING AREA	QTY	MANUFACTURE	MODEL	ELECTRICAL			EFFICIENCY		AMBIENT (°F)	Compressor				Unit Weight (lb)
					VOLTAGE	MCA (A)	MROPD (A)	EER	HSPF		Stages	Qty	CIRCUITS	Refrigerant	
HP-1	SEE PLANS	1	LENNOX	SPB048H4-230	208/60/3	18.6	30	16	9	95	2	1	1	R410A	294
HP-2	SEE PLANS	1	LENNOX	SPB036H4-230	208/60/3	16.2	25	16	9	95	1	1	1	R410A	273
HP-3	SEE PLANS	1	LENNOX	SPB036H4-230	208/60/3	16.2	25	16	9	95	2	1	1	R410A	273
HP-4	SEE PLANS	1	LENNOX	XP16-024-230	208/60/1	15.3	20	16	9	95	2	1	1	R410A	222
HP-5	SEE PLANS	1	LENNOX	SPB036H4-230	208/60/3	16.2	25	16	9	95	2	1	1	R410A	273

- NOTES:
- OUTDOOR UNITS SHALL HAVE LOUVERED CONDENSER COILS.
 - DISCONNECT SWITCH TO BE INSTALLED AND PROVIDED BY DIV 26.
 - 5 YEARS COMPRESSOR PARTS WARRANTY.
 - PROVIDE FREEZESTAT AND LOW AMBIENT CONTROLS TO ZERO (°F) AMBIENT.

AIR DISTRIBUTION SCHEDULE

TYPE	MFR. & MODEL	REMARKS
CD-1	NAILOR UNI	SQUARE PLAQUE, STEEL CONSTRUCTION, 360° RADIAL HORIZONTAL AIR PATTERN, SURFACE MOUNT OR LAY-IN T-BAR FRAME (TYPE L), 20x20 DFA FRAME FOR SURFACE MOUNTING, AND 4675 BUTTERFLY DAMPER.
RAR-1	NAILOR 4360	FLUSH PERFORATED FACE, STEEL CONSTRUCTION WITH 18X18 SQUARE NECK. TRANSITION TO DUCT SIZE FOR CONNECTION. PROVIDE FRAME FOR LAY-IN CEILING OR SURFACE MOUNTING WITH 20x20 DFA (TYPE S) MOUNTING FRAME.
DG	NAILOR 51DG	HEAVY DUTY ALUMINUM DOOR GRILLE WITH SIGHTPROOF APPEARANCE AND FLAT BORDER FRAME BOTH SIDES.

- NOTES:
- ALL DEVICES ARE TO MATCH CEILING FRAME TYPE WHERE INSTALLED. CONTRACTOR IS TO CONFIRM CEILING TYPES BEFORE ORDERING AIR DISTRIBUTION DEVICES.
 - COLOR AND FINISH OF ALL AIR DISTRIBUTION SHALL MATCH ADJACENT SURFACE, OR AS DIRECTED BY THE ARCHITECT.
 - COORDINATE FINAL AIR DISTRIBUTION LOCATION AND ELEVATION, INCLUDING WALL MOUNTED GRILLES, WITH ARCHITECT AND ARCHITECTURAL PLANS BEFORE INSTALLATION.

FAN SCHEDULE

EQUIPMENT NO.	SERVICE	TYPE	CFM	STATIC PRESS. (IN. W.G.)	MOTOR				FAN				MANUFACTURER & MODEL	NOTES
					WATTS	AMPS	RPM	V-PH-CY	RPM	WHEEL DIA.	MAX dBA	MAX SONES		
EF-1	SEE PLANS	CEILING MOUNTED	70	0.25	10	0.17	745	120-1-60	745	-	21	0.3	GREENHECK SP-A90	SEE BELOW
EF-2	SEE PLANS	CEILING MOUNTED	50	0.25	10	0.17	745	120-1-60	745	-	21	0.3	GREENHECK SP-A90	SEE BELOW
EF-3	SEE PLANS	CEILING MOUNTED	290	0.1	81	-	1,040	120-1-60	1,040	-	40	2.5	GREENHECK SP-A290	SEE BELOW

- NOTES:
- PROVIDE ROOF CAP FOR FANS WITH INDIVIDUAL ROOF PENETRATIONS, ISOLATION VIBRATION HANGING KIT, WALL SWITCH MOUNTED INLINE WITH LIGHT SWITCH FOR ALL BATHROOM EXHAUST AND EXAM ROOM EXHAUST, DISCONNECT AND BACKDRAFT DAMPER. WALL SWITCH MOUNTED INLINE WITH AND ADJACENT TO LIGHT SWITCH FOR JANITOR ROOM EXHAUST, DISCONNECT AND BACKDRAFT DAMPER.
 - FOR MULTIPLE FANS DUCTED TO THE SAME ROOF OUTLET, PROVIDE A FANTEC RC10P ROOF CAP WITH DUCT SIZE OF 12".
 - PROVIDE WALL SWITCH LABELED EXHAUST FOR EF-3. MOUNT ADJACENT TO AUTOCLAVE.

CONSTRUCTION NOTES

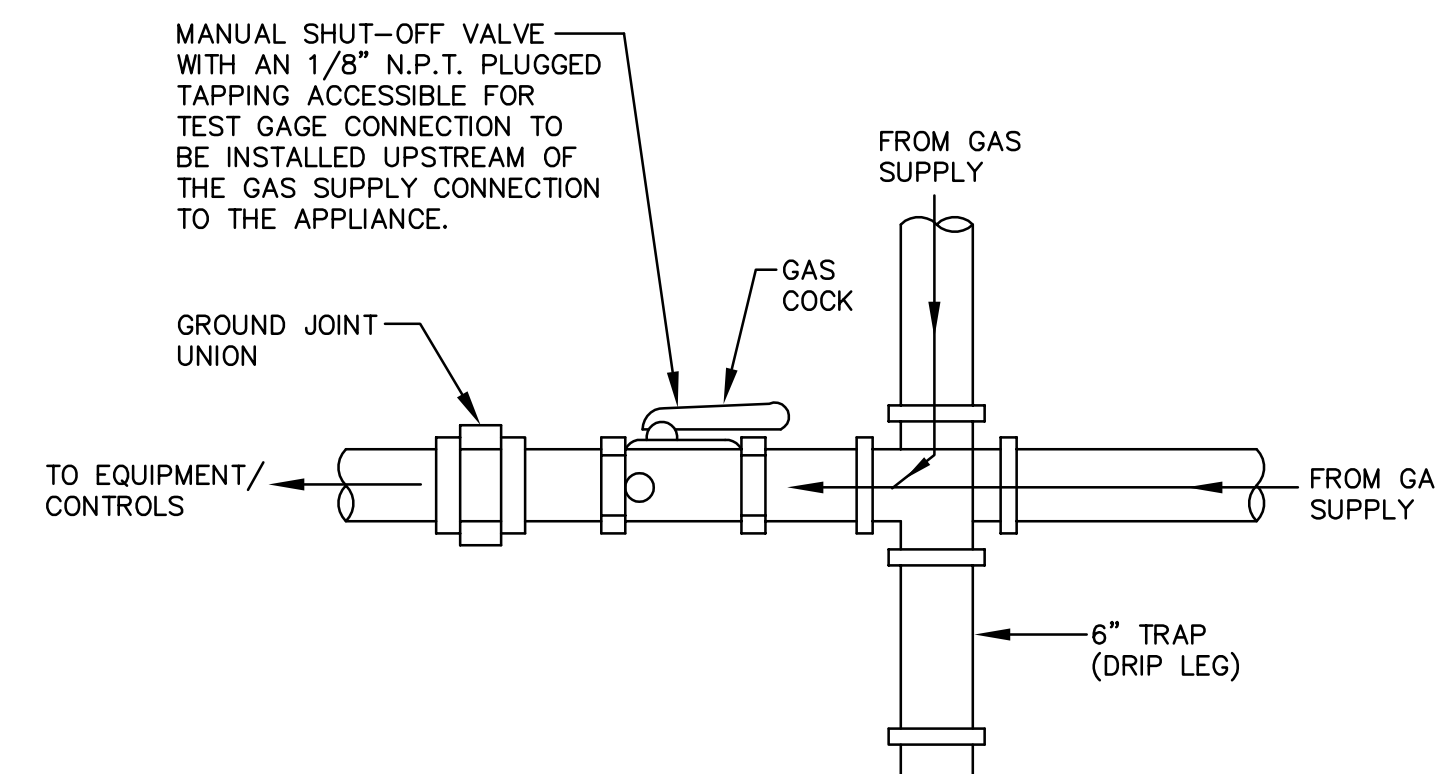
- EXISTING DUCTWORK, GRILLES, DIFFUSERS, T'STATS & EQUIPMENT ARE BASED ON FIELD OBSERVATION. THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLUTION.
- ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER.
- CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION AUDIT OF HVAC EQUIPMENT TO REMAIN IN THIS BUILDING AND SUBMIT A REPORT OF THE CURRENT CONDITION OF THE EQUIPMENT & CONTROLS & RECOMMENDATIONS FOR REPAIR OR REPLACEMENT. PRE-CONSTRUCTION AUDIT SHALL BE SUBMITTED IN REPORT FORMAT TO ARCHITECT & ENGINEER PRIOR TO START OF ANY WORK. DAMAGED EQUIPMENT & CONTROLS NOT LISTED IN REPORT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE AT THE END OF THE PROJECT.
- CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT, AND ENVIRONMENTAL CONDITIONS.
- CLEAN ALL HVAC EQUIPMENT INCLUDING, BUT NOT LIMITED TO, VAV BOXES, COILS & REUSED DUCTWORK.
- TURN ON, CYCLE AND USE ALL MECHANICAL SYSTEMS BEING REUSED AND REPORT ALL FINDINGS AND DEFICIENCIES.

HVAC CODE COMPLIANCE NOTES

- EVERY APPLIANCE SHALL BE LOCATED WITH RESPECT TO BUILDING CONSTRUCTION AND OTHER EQUIPMENT SO AS TO PERMIT ACCESS AND SERVICE PER IMC 303.
- EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THIS CODE. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION. PER IMC 304.1.
- PERMITS SHALL BE APPLIED FOR BY A LICENSED MECHANICAL, GAS OR FIRE PROTECTION CONTRACTOR PER IMC 105.1.1.

HVAC GENERAL NOTES

- ALL DUCTWORK ASSOCIATED WITH THE MECHANICAL SYSTEMS SHALL BE INSTALLED AND SECURED PER APPLICABLE BUILDING CODES. PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT INSTALLED ABOVE HARD CEILINGS OR IN FURRED CHASSES REQUIRING ACCESS, SUCH AS FIRE DAMPERS, VOLUME DAMPERS, PIPING VALVES, ETC.
- MECHANICAL CONTRACTOR SHALL COORDINATE AIR DISTRIBUTION DEVICE LAYOUT WITH DIVISION 16 AND ARCHITECTURAL REFLECTED CEILING PLANS. LIGHT FIXTURE LOCATIONS SHOWN ON ELECTRICAL DRAWINGS TAKE PRIORITY OVER AIR DISTRIBUTION DEVICE LOCATIONS.
- MECHANICAL CONTRACTOR SHALL INSTALL VOLUME DAMPERS IN AIR DUCTS TO NEW SUPPLY, RETURN, AND EXHAUST GRILLES. VOLUME DAMPERS SHALL BE LOCATED FOR ACCESS FROM LAY-IN CEILING OR ACCESS DOORS, WHERE GYP CEILINGS ARE INSTALLED.
- THERMOSTAT HEIGHT SHALL BE 4'-0" ABOVE FINISHED FLOOR, AND SHALL BE ALIGNED WITH LIGHT SWITCH WHERE SHOWN AT THE SAME LOCATION.
- MANUAL BALANCING DAMPERS TO BE LOCATED WHERE OPERATORS ARE ACCESSIBLE.
- DUCT DIMENSIONS SHOWN FOR RECTANGULAR DUCTWORK ARE SHEET METAL SIZES. DIMENSION SHOWN FOR ROUND DUCTWORK ARE NET INSIDE DIMENSION.
- LOW PRESSURE DUCT RUNOUTS FROM RECTANGULAR DUCTS TO DIFFUSERS SHALL BE FLEXIBLE ROUND AND 4'-0" MAXIMUM LENGTH, AND SHALL HAVE SAME DIAMETER AS DIFFUSER NECK UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE CONNECTIONS TO DUCTWORK.
- COORDINATE EXACT LOCATION OF ALL PIPING AND DUCT PENETRATIONS OF WALLS WITH STRUCTURAL BRACING.
- DUCT LOCATIONS THROUGH MASONRY PARTITIONS AND BEARING WALLS MUST BE COORDINATED WITH OTHER OPENINGS AND WALL REINFORCING REQUIREMENTS SO THAT STRENGTH OF WALL IS NOT IMPAIRED.
- MATCH EXISTING MATERIALS AND INSULATION AND OTHER EQUIPMENT DURING RENOVATION.



GAS CONNECTION TO EQUIPMENT DETAIL

NOT TO SCALE



HALTOM ENGINEERING, LLC
 495 Mulberry Street
 Memphis TN. 38103
 Phone (901) 575-2354
 Fax (901) 575-3458



PROJECT NO. 190807
 DATE: 10-26-20
 DRAWN BY: JH

REVISION: 1
 DATE: 03-09-21

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LEGEND & ABBREVIATIONS

NOTES:

- SUBMIT FINISH / FRAMESTYLE OF ALL DEVICES TO THE ARCHITECT FOR APPROVAL. PROVIDE FRAME TYPE TO MATCH CEILING TYPE, I.E., LAY-IN OR HARD CEILING.
- FINAL LOCATION OF AIR DISTRIBUTION DEVICES SHALL MATCH THE ARCHITECT'S REFLECTED CEILING PLAN.

- SUPPLY DUCTWORK UP
- RETURN DUCTWORK UP
- EXHAUST DUCTWORK UP

- SUPPLY DUCTWORK
- RETURN DUCTWORK
- EXHAUST DUCTWORK

VD ——— MANUAL BALANCING DAMPER

MOTOR OPERATED DAMPER

THERMOSTAT LOCATED AT 48" AFF

HUMIDITY SENSOR AT 48" AFF

CO2 SENSOR LOCATED AT 48" AFF

DUCT UP

DUCT DOWN

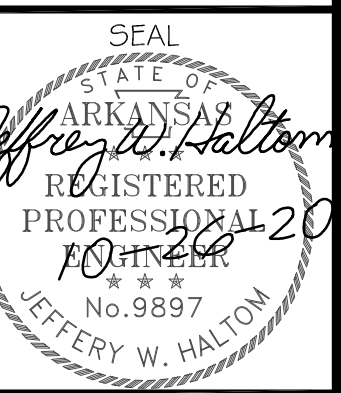
SMOKE DETECTOR - INSTALL IN AN ACCESSIBLE LOCATION PRIOR TO ANY TAKEOFFS FOR DUCTWORK.

CONNECT NEW TO EXISTING

DN DOWN
 E.A. EXHAUST AIR
 EF EXHAUST FAN
 OSA OUTSIDE AIR
 R.A. RETURN AIR
 R.B. SUPPLY AIR
 TYP. TYPICAL
 VD MANUAL BALANCING DAMPER

MSA
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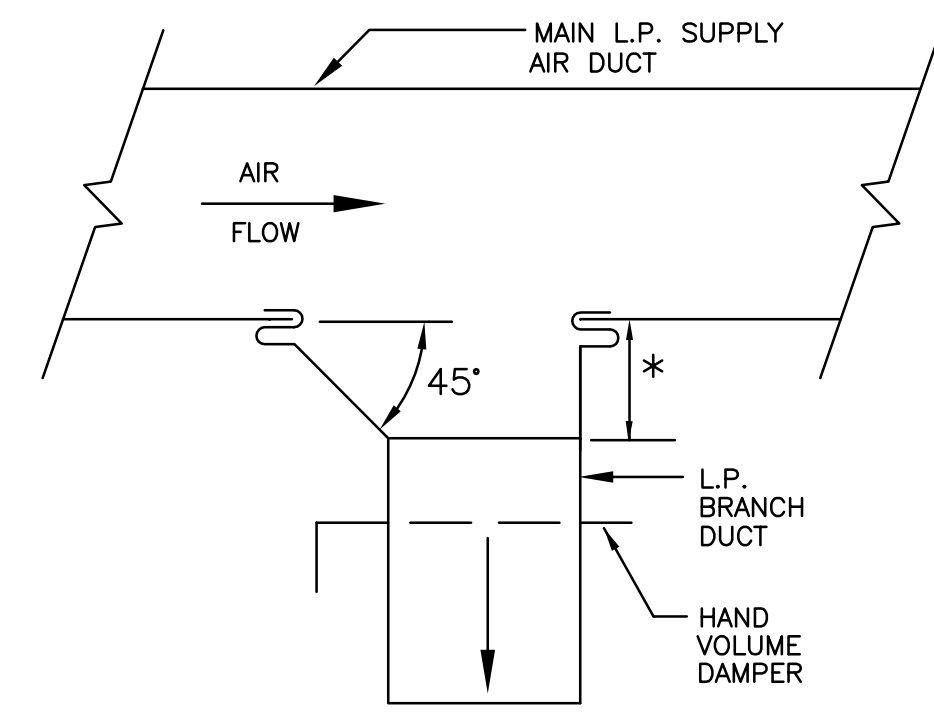
NEW FACILITY
RANDOLPH COUNTY
HEALTH UNIT
 POCAHONTAS, ARKANSAS 72455



SCHEDULES, NOTES, AND LEGEND - HVAC

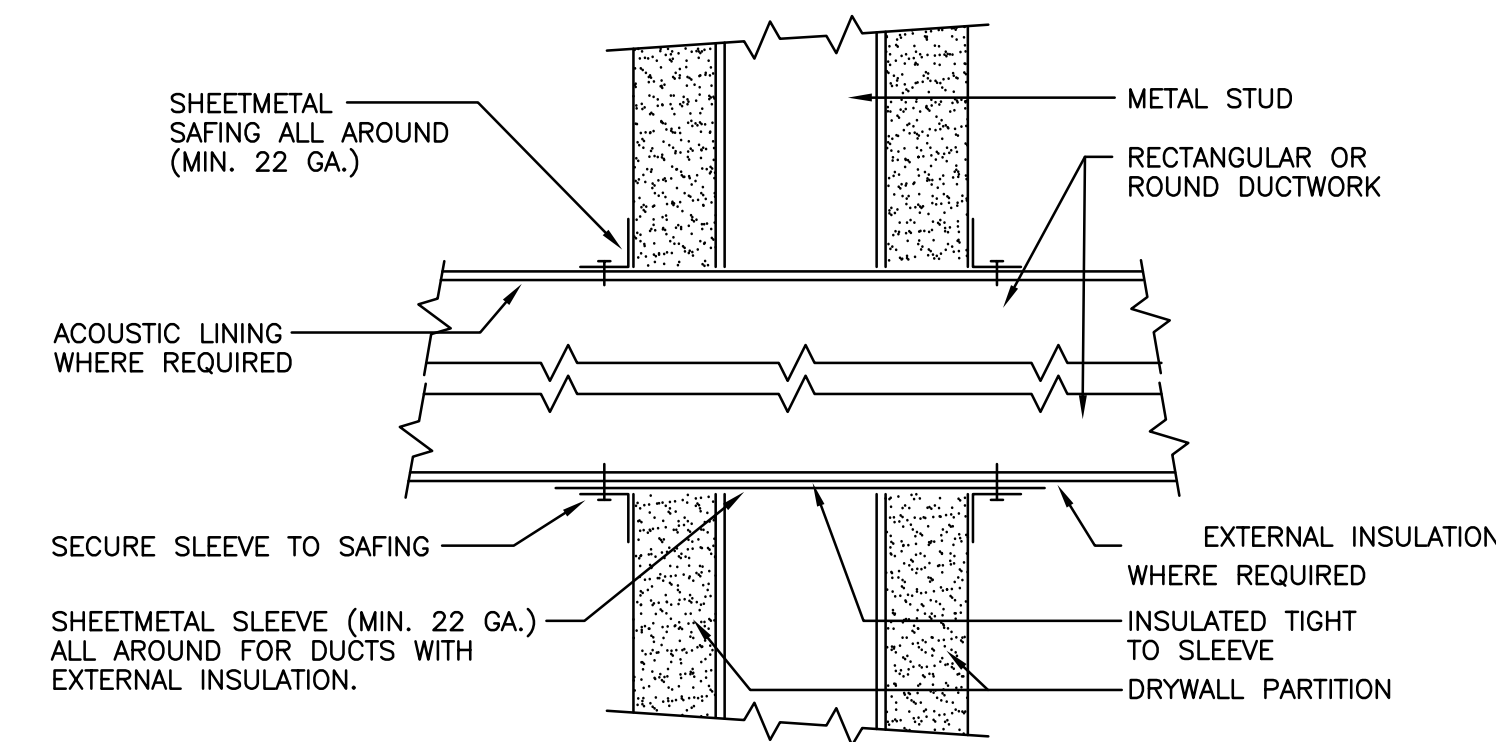
M-2.1

SHEET NO.

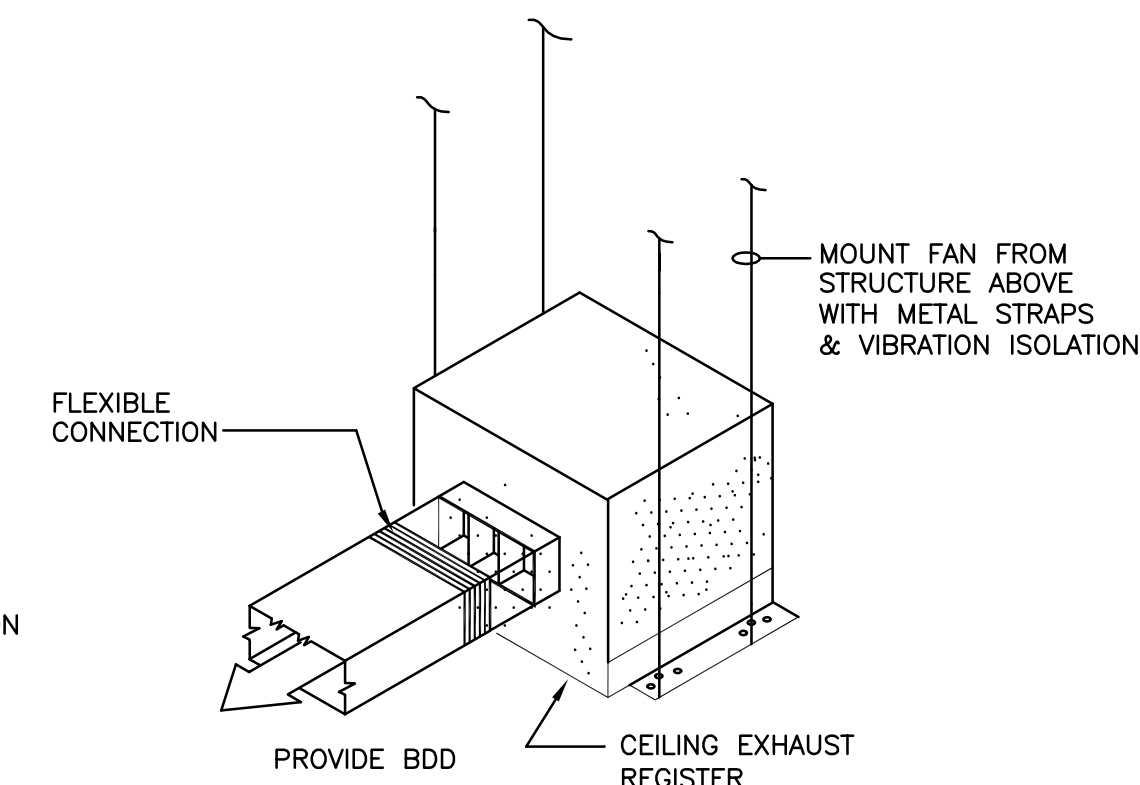


*--EQUALS WIDTH OF BRANCH DUCT UP TO 12".
 12" FOR ALL BRANCH DUCTS LARGER THAN 12".

**TYPICAL LOW PRESSURE
 BRANCH DUCT TAKE-OFF**
 NO SCALE



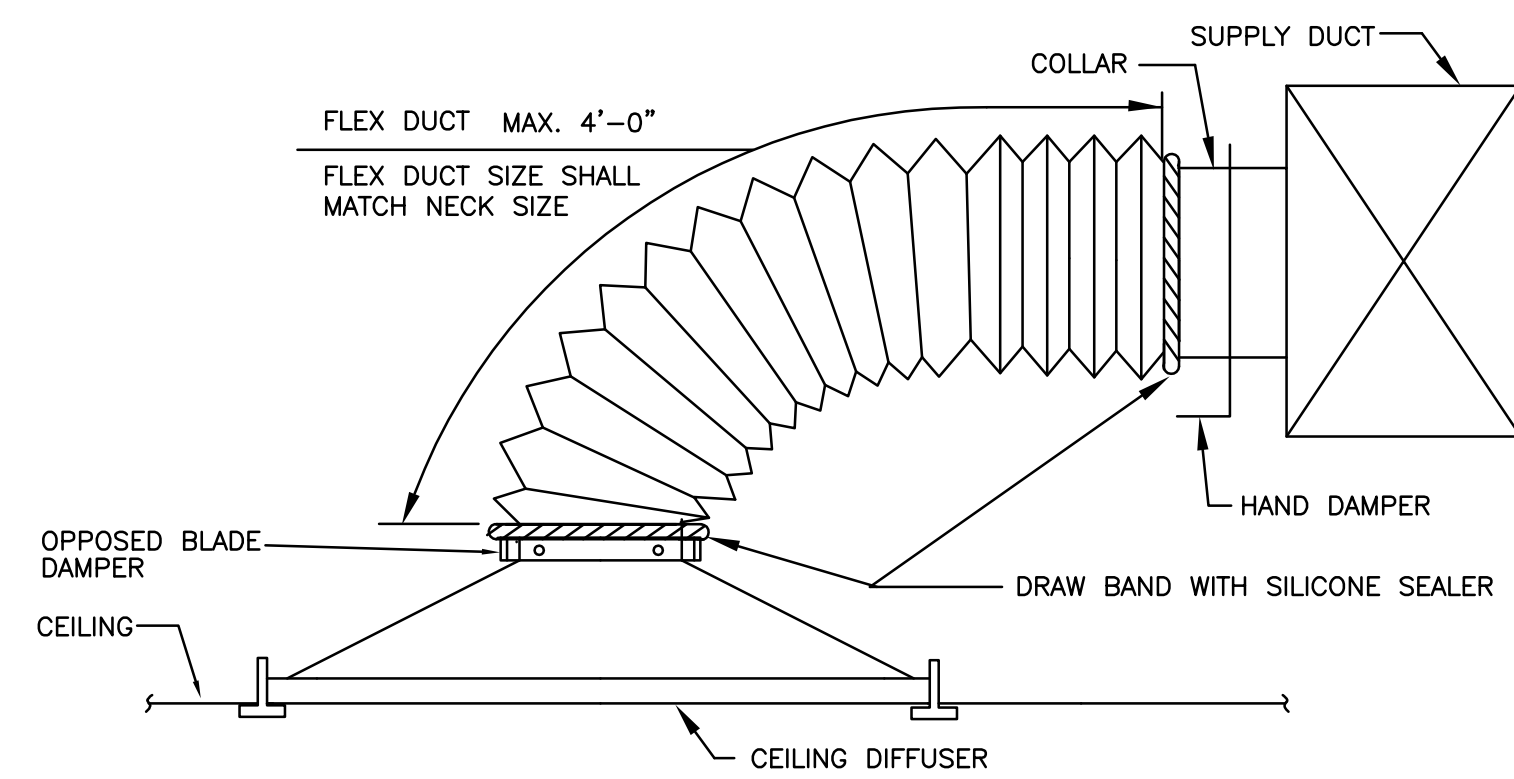
**DUCT PENETRATION THROUGH
 NON-FIRE RATED WALL**
 NO SCALE



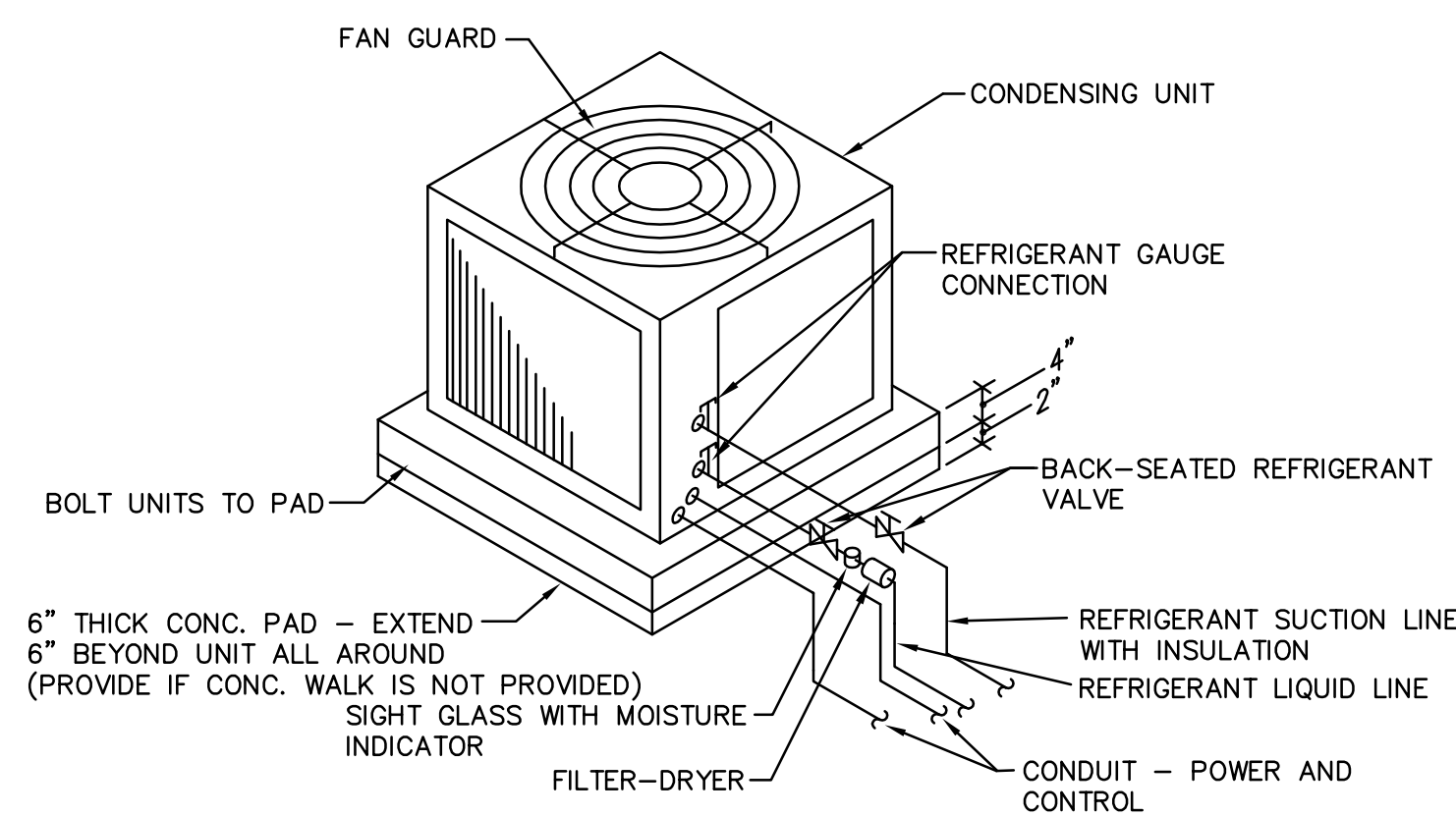
CEILING EXHAUST FAN DETAIL
 NO SCALE

SEISMIC BRACING REQUIREMENTS:

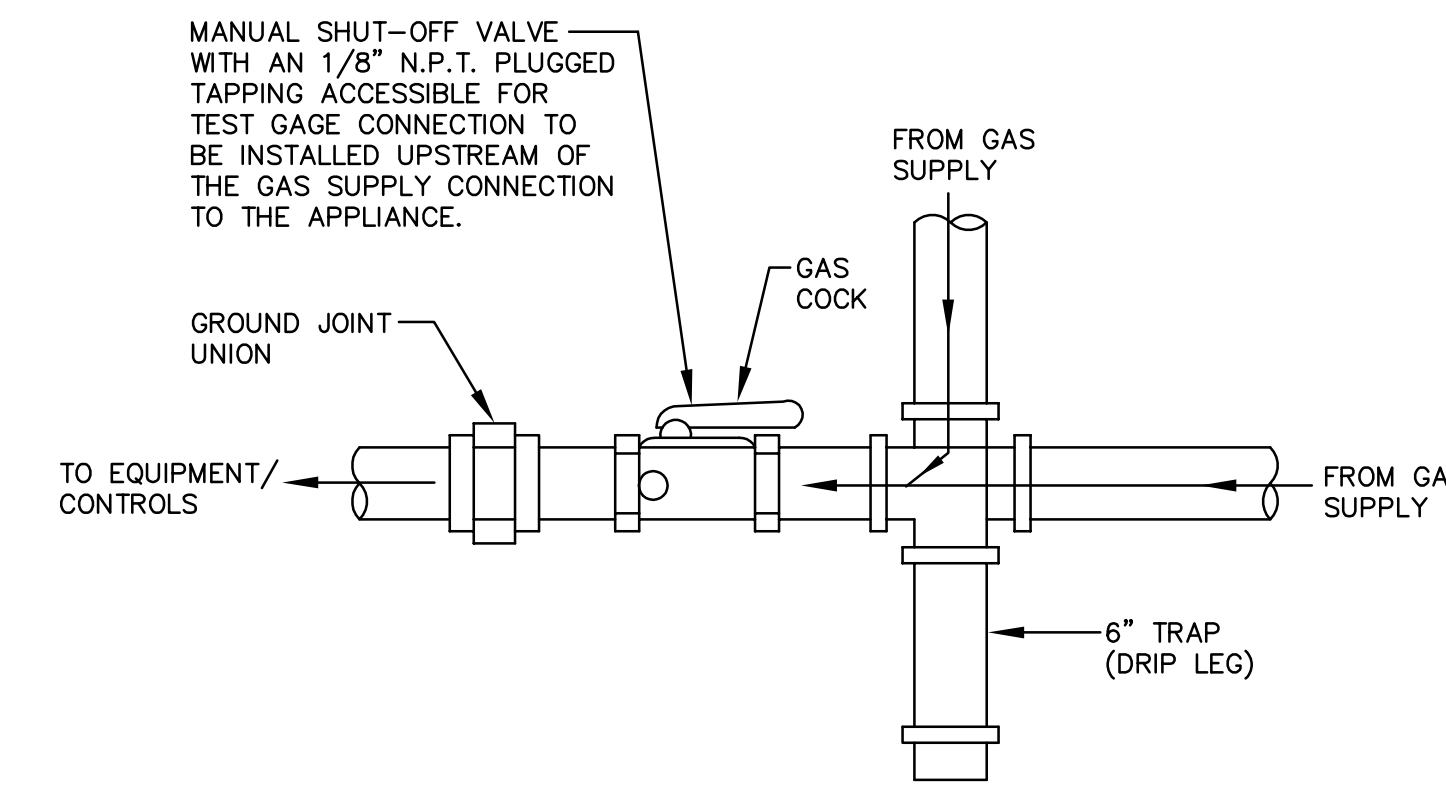
1. SEE SPECIFICATION SECTION 230548 -- VIBRATION AND SEISMIC CONTROLS FOR HVAC AND COMPLY WITH THAT SECTION. THESE DETAILS ARE FOR GENERAL GUIDANCE ONLY. THE SEISMIC PRODUCT VENDOR SHALL SUPPLY SHOP DRAWINGS WITH DETAILS FOR INSTALLATION OF BRACED SYSTEMS. PROVIDE THOSE SHOP DRAWINGS AND CALCULATION FOR REVIEW AS STATED IN 230548, PARAGRAPH 1.2 B.
2. INSTALLATION OF THE SEISMIC GAS SHUTOFF VALVE (SGSV) SHOULD BE IN ACCORDANCE WITH ALL LOCAL GUIDELINES AND MANUFACTURER SPECIFICATIONS.



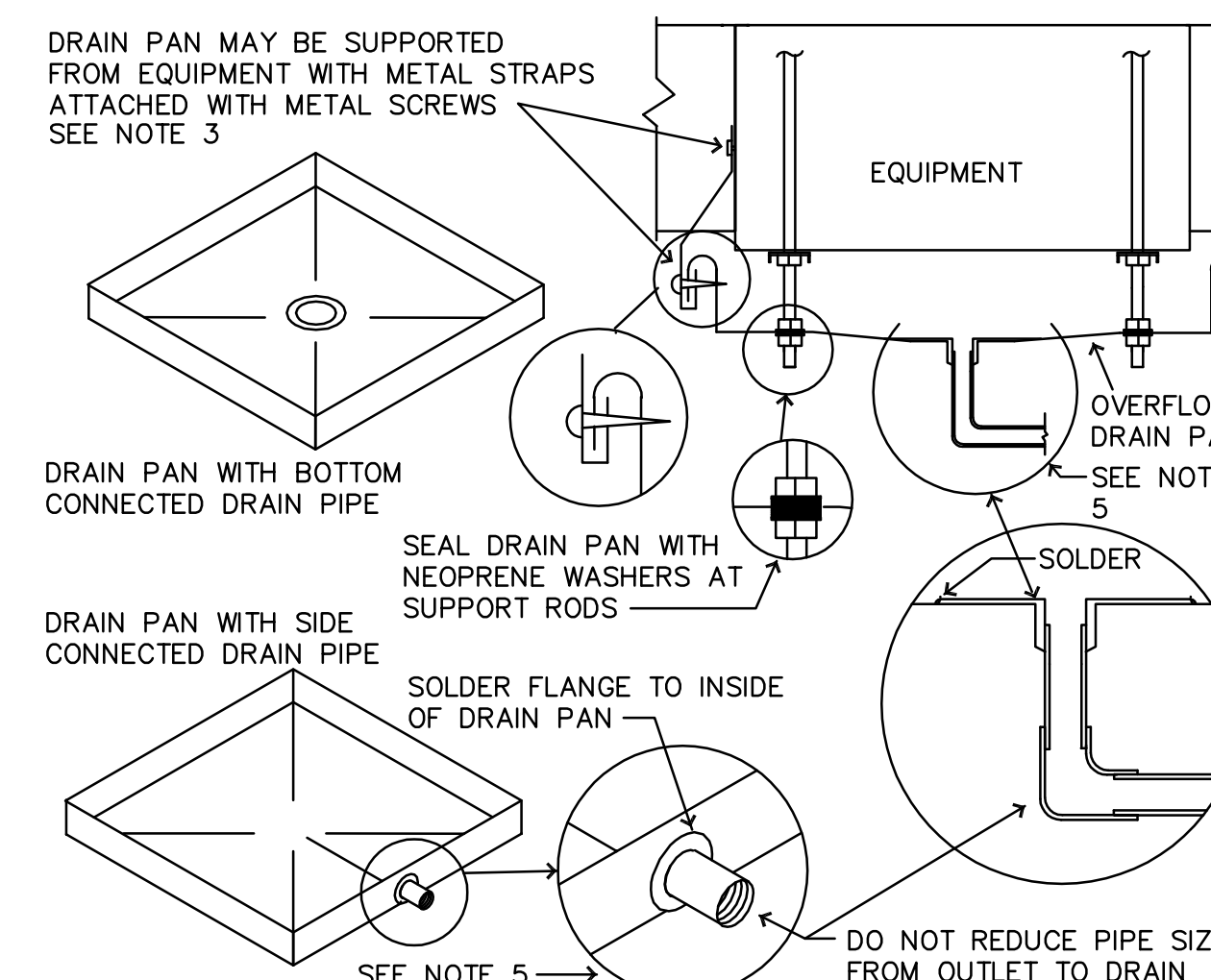
TYPICAL DIFFUSER CONNECTION
 NO SCALE (SIDE OF DUCT CONNECTION)



**AIR-COOLED CONDENSING UNIT
 - SLAB MOUNTED AT GRADE**
 NO SCALE

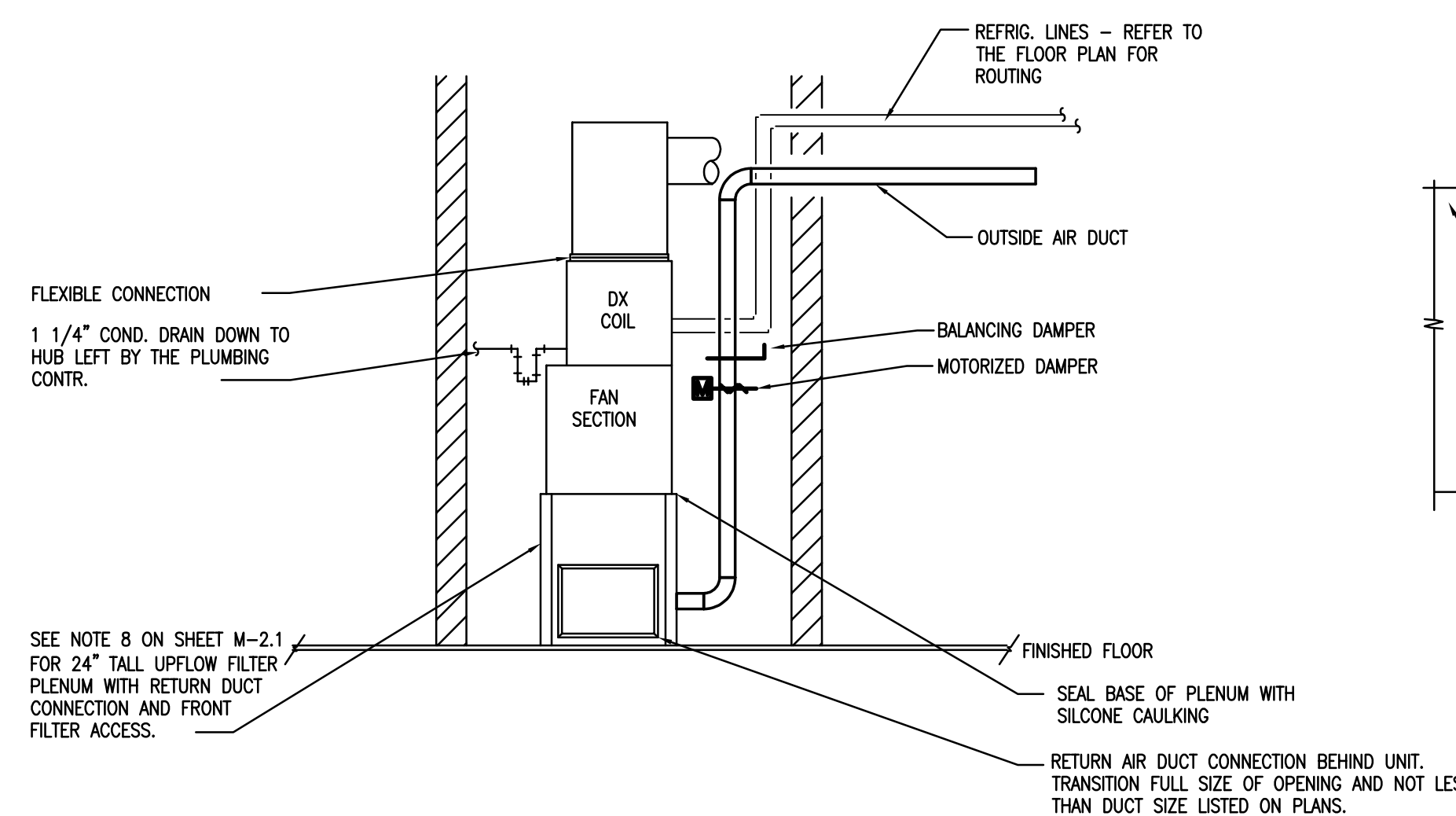


GAS CONNECTION TO EQUIPMENT DETAIL
 NOT TO SCALE

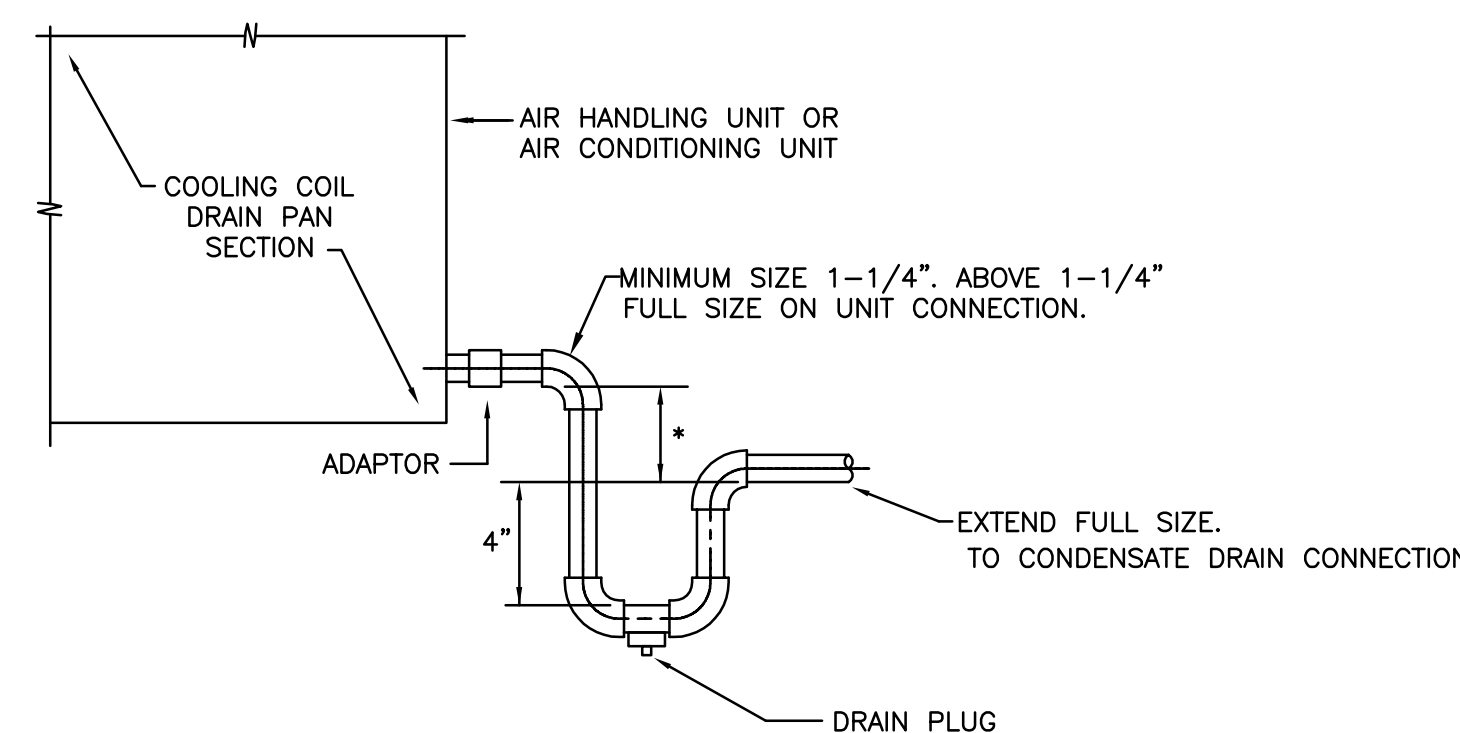


- NOTES:
1. CROSS BREAK BOTTOM OF SHEET METAL DRAIN PAN TO PROVIDE SLOPED DRAINAGE TO OUTLET.
 2. SOLDER OR OTHERWISE SEAL ALL JOINTS TO MAKE DRAIN PAN LEAK TIGHT.
 3. SUSPEND DRAIN PAN WITH EQUIPMENT SUPPORT RODS WHEN POSSIBLE, OTHERWISE ATTACH WITH STRAPS TO EQUIPMENT.
 4. FABRICATE DRAIN PAN FROM 24 GA GALV SHEET METAL 5 ROUTE DRAIN TO CODE APPROVED CONSPICUOUS LOCATION.

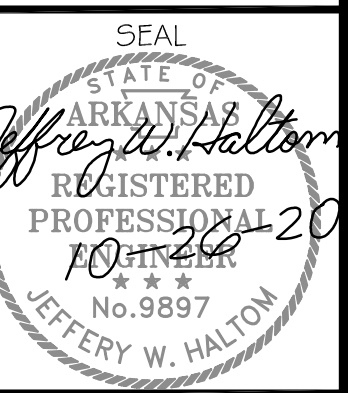
**CONDENSATE OVERFLOW
 DRAIN PAN DETAIL**
 NO SCALE



AHU ELEVATION OF MECHANICAL CLOSET
 NO SCALE



CONDENSATE DRAIN DETAIL
 NO SCALE





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 495 Mulberry Street
 Memphis TN, 38103
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 REVISION:
 DATE:
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Mechanical Compliance Certificate

Section 1: Project Information

Energy Code: 2009 IECC
 Project Title:
 Project Type: New Construction
 Construction Site: Owner/Agent: Designer/Contractor:

Section 2: General Information

Building Location (for weather data): Jonesboro, Arkansas
 Climate Zone: 3a

Section 3: Mechanical Systems List

- Quantity System Type & Description
- AHU-1 (Single Zone):
 Heating: 1 each - Central Furnace, Electric, Capacity = 30 kBtu/h
 No minimum efficiency requirement applies
 Cooling: 1 each - Split System, Capacity = 47 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
 Proposed Efficiency = 16.00 SEER, Required Efficiency: 13.00 SEER
 Fan System: AHU-1 - Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 1545 CFM, 1.0 motor nameplate hp
 - AHU-2 (Single Zone):
 Heating: 1 each - Central Furnace, Electric, Capacity = 24 kBtu/h
 No minimum efficiency requirement applies
 Cooling: 1 each - Split System, Capacity = 30 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
 Proposed Efficiency = 16.00 SEER, Required Efficiency: 13.00 SEER
 Fan System: AHU-1 - Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 1545 CFM, 1.0 motor nameplate hp
 - AHU-3 (Single Zone):
 Heating: 1 each - Central Furnace, Electric, Capacity = 30 kBtu/h
 No minimum efficiency requirement applies
 Cooling: 1 each - Split System, Capacity = 47 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
 Proposed Efficiency = 16.00 SEER, Required Efficiency: 13.00 SEER
 Fan System: FAN SYSTEM 1 - Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 3 Supply, Constant Volume, 1344 CFM, 1.0 motor nameplate hp
 - AHU-4 (Single Zone):
 Heating: 1 each - Central Furnace, Electric, Capacity = 13 kBtu/h
 No minimum efficiency requirement applies
 Cooling: 1 each - Split System, Capacity = 24 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
 Proposed Efficiency = 16.00 SEER, Required Efficiency: 13.00 SEER
 Fan System: AHU-1 - Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 1545 CFM, 1.0 motor nameplate hp

Project Title:
 Data filename: Report date: 10/28/20
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- AHU 5 (Single Zone):
 Heating: 1 each - Central Furnace, Electric, Capacity = 30 kBtu/h
 No minimum efficiency requirement applies
 Cooling: 1 each - Split System, Capacity = 47 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
 Proposed Efficiency = 16.00 SEER, Required Efficiency: 13.00 SEER
 Fan System: FAN SYSTEM 2 - Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 3 Supply, Constant Volume, 1270 CFM, 1.0 motor nameplate hp

Section 4: Requirements Checklist

- Requirements Specific To: AHU-1:**
- Equipment minimum efficiency: Split System: 13.00 SEER
 - Newly purchased equipment meets the efficiency requirements
- Requirements Specific To: AHU-2:**
- Equipment minimum efficiency: Split System: 13.00 SEER
 - Newly purchased equipment meets the efficiency requirements
- Requirements Specific To: AHU-3:**
- Equipment minimum efficiency: Split System: 13.00 SEER
 - Newly purchased equipment meets the efficiency requirements
- Requirements Specific To: AHU-4:**
- Equipment minimum efficiency: Split System: 13.00 SEER
 - Newly purchased equipment meets the efficiency requirements
- Requirements Specific To: AHU-5:**
- Equipment minimum efficiency: Split System: 13.00 SEER
 - Newly purchased equipment meets the efficiency requirements
- Generic Requirements: Must be met by all systems to which the requirement is applicable:**
- Plant equipment and system capacity no greater than needed to meet loads
 Exception(s):
 Standby equipment automatically off when primary system is operating
 Multiple units controlled to sequence operation as a function of load
 - Minimum one temperature control device per system
 - Minimum one humidity control device per installed humidification/dehumidification system
 - Load calculations per ASHRAE/JACCA Standard 18S.
 - Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
 Exception(s):
 Continuously operating zones
 - Outside-air source for ventilation; system capable of reducing OSA to required minimum
 - R-5 supply and return air duct insulation in unconditioned spaces
 R-8 supply and return air duct insulation outside the building
 R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
 Exception(s):
 Ducts located within equipment
 Ducts with interior and exterior temperature difference not exceeding 15°F.
 - Mechanical fasteners and sealants used to connect ducts and air distribution equipment
 - Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
 - Hot water pipe insulation: 1.5 in. for pipes <= 1.5 in. and 2 in. for pipes > 1.5 in.
 Chilled water/refrigerant/brine pipe insulation: 1.5 in. for pipes <= 1.5 in. and 1.5 in. for pipes > 1.5 in.
 Steam pipe insulation: 1.5 in. for pipes <= 1.5 in. and 3 in. for pipes > 1.5 in.
 Exception(s):
 Piping within HVAC equipment.
 Fluid temperatures between 55 and 105°F.
 Fluid not heated or cooled with renewable energy.
 Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).

Project Title:
 Data filename: Report date: 10/28/20
 Page 7 of 8

- Runouts < 4 ft in length.
- Operation and maintenance manual provided to building owner
- Thermostatic controls have 5°F deadband
 Exception(s):
 Thermostats requiring manual changeover between heating and cooling
 Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
- Balancing devices provided in accordance with IMC 603.17
- Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft2 in spaces >500 ft2) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
 Exception(s):
 Systems with heat recovery.
 Multiple-zone systems without DDC of individual zones communicating with a central control panel.
 Systems with a design outdoor airflow less than 1200 cfm.
 Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
- Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
 Exception(s):
 Gravity dampers acceptable in buildings < 3 stories.
- Automatic controls for freeze protection systems present
- Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
 Exception(s):
 Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.
 Systems serving spaces that are heated and not cooled to less than 60°F.
 Where more than 80 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
 Heating systems in climates with less than 3600 HDD.
 Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64°F.
 Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
 Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 50 percent or less of design volume or, a separate make up air supply meeting the following makeup air requirements: a) at least 75 percent of exhaust flow rate, b) heated to no more than 2°F below room setpoint temperature, c) cooled to no lower than 3°F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2009 IECC requirements in COMcheck-Web and to comply with the mandatory requirements in the Requirements Checklist.

JEFF HALTOM - P.E.
 Name - Title: Signature: Jeffrey W. Haltom Date: 10-26-20

Section 6: Post Construction Compliance Statement

- HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipment provided to the owner.
- HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.
- Written HVAC balancing and operations report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name: Signature: Date:

Project Title:
 Data filename: Report date: 10/28/20
 Page 8 of 8

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 POCAHONTAS, ARKANSAS 72455



COMCHECK - HVAC

M-2.3

SHEET NO.



HOOD INFORMATION

QTY.	MARK	MODEL	CONFIGURATION	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	EXHAUST				VENTILATION INFORMATION		TOTAL WEIGHT (LBS.)	
				LENGTH	WIDTH	HEIGHT		CFM	INLET SOUND SONES	DBA	COLLAR DIA. (IN.)	S.P.	VENTILATION STYLE		FAN TYPE
1	KH-1	GRRS	WALL	30	TOP 12.0 BOT 23.5	FRT 6.00 BCK 12.5	300 SERIES SS WHERE EXPOSED	500	3.7	46.86	8	0.56	EXTERNAL FAN - TOP DISCHARGE	INLINE	86

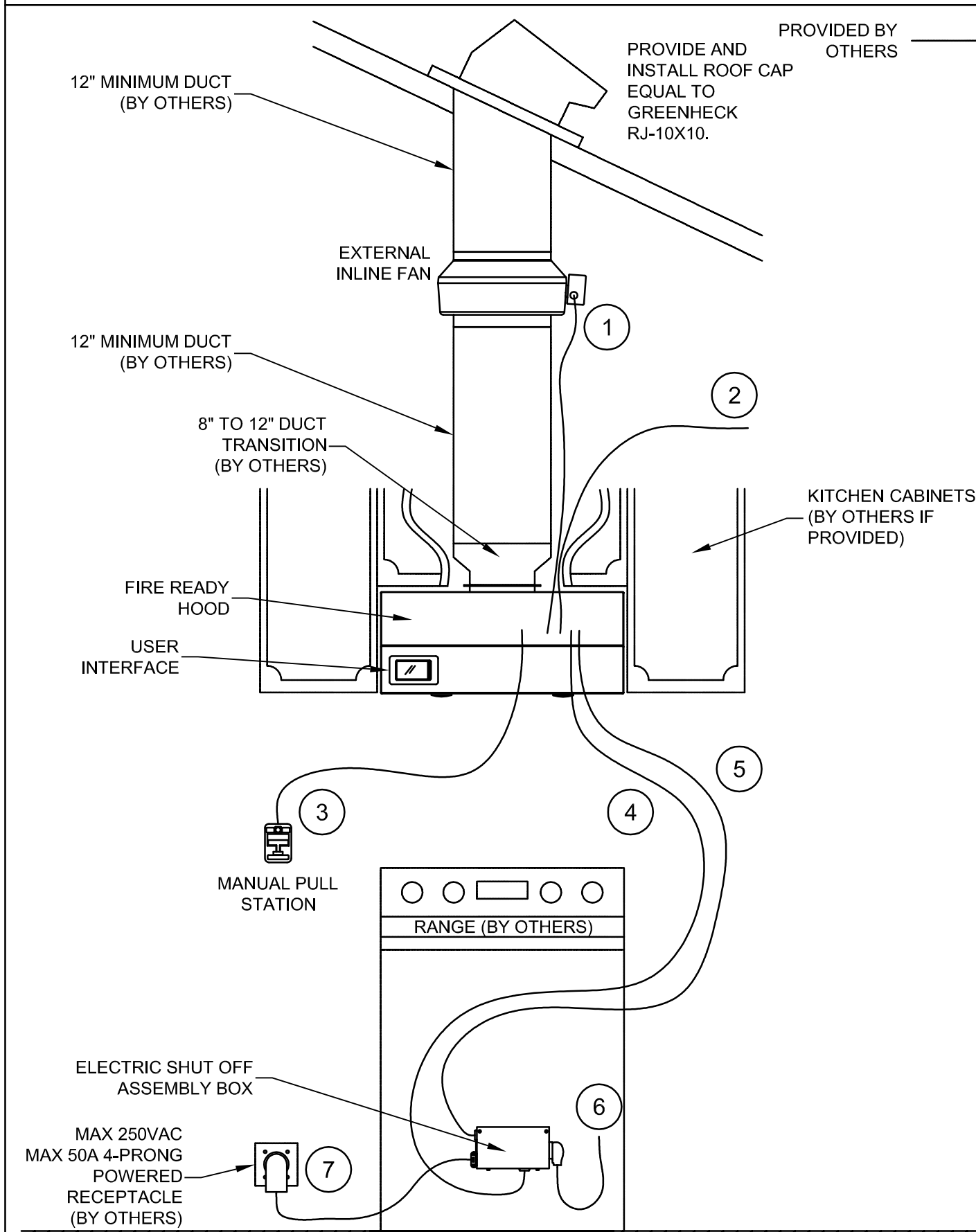
HOOD INFORMATION

QTY.	MARK	HOOD AND FAN POWER				DISCONNECTS FOR APPLIANCE				LIGHTING DETAILS		USER INTERFACE			
		VOLT	PHASE	BREAKER SIZE (AMPS)	OPERATING CURRENT (AMPS)	ELECTRIC RECP.	VOLT	PHASE	MAX AMPS	GAS VALVE SIZE (IN.)	FIXTURE TYPE BULB / LAMP INFO	QTY	TYPE	LOCATION	
1	KH-1	115	1	15	1.7	14-50R	208-250	1	50			115VAC 7WATT E26 LED 2200-2700K COLOR	2	FULL COLOR, LCD TOUCH SCREEN	HOOD MOUNTED

HOOD OPTIONS/ACCESSORIES

LISTED TO UL SUBJECT 300A
 SELF-CONTAINED FIRE SUPPRESSION SYSTEM
 ELECTRONIC DETECTION
 FULLY PLUG AND PLAY DESIGN
 NSF APPROVED SEALANT
 AUTOMATIC RANGE DEACTIVATION AND PASSWORD PROTECTION
 MANUAL PULL STATION
 NFPA 101 COMPLIANT

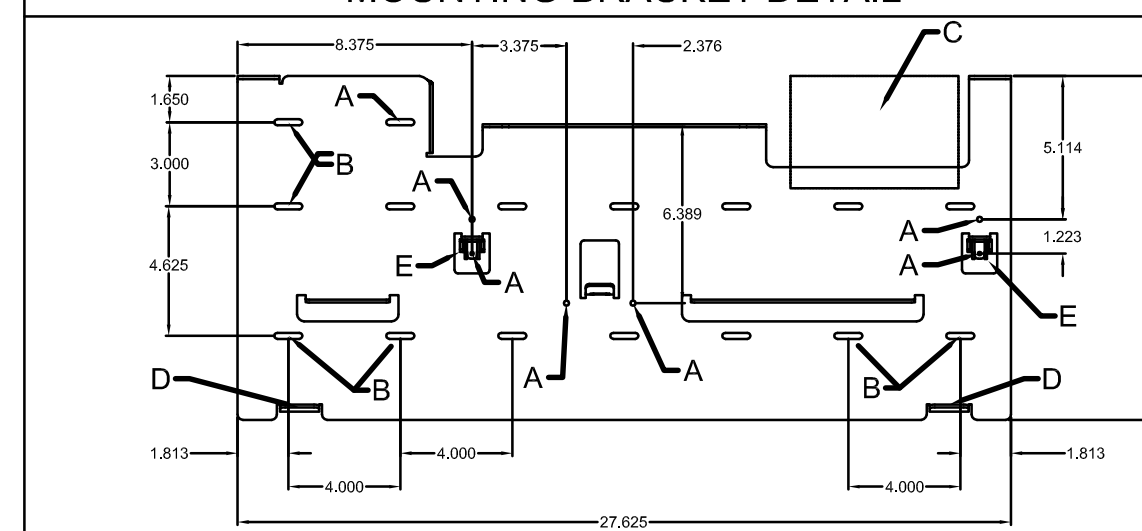
FIELD DIAGRAM



CONNECTION LEGEND

ID	ITEM	ITEM DETAILS
1	EXTERNAL INLINE FAN	50FT PLUG AND PLAY CABLE WITH ORANGE LABEL PROVIDED. FIELD TO RUN BETWEEN HOOD AND FAN, AND CONNECT TO ORANGE HARNESSES.
2	HOOD POWER	FIELD TO PROVIDE 115VAC POWER FROM 15A BREAKER TO TERMINAL BLOCKS H1 AND N1 INSIDE HOOD (GROUND TO GROUNDING TERMINAL).
3	MANUAL PULL STATION	30 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO HOOD. FIELD TO CONNECT TO MANUAL PULL STATION VIA QUICK CONNECTOR IN STATION J-BOX.
4	GAS/ELECTRIC DISCONNECT CABLE 1	10 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO 9PIN CONNECTION AT HOOD. FIELD TO PLUG THIS INTO GAS/ELECTRIC SHUT OFF ASSEMBLY BOX.
5	GAS/ELECTRIC DISCONNECT CABLE 2	10 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO 4PIN CONNECTION AT HOOD. FIELD TO PLUG THIS INTO GAS/ELECTRIC SHUT OFF ASSEMBLY BOX.
6	RANGE POWER CORD	PLUG RANGE POWER CORD (IF PROVIDED WITH RANGE) INTO 14-50R RECEPTACLE ON ELECTRIC SHUT OFF ASSEMBLY BOX.
7	SHUT OFF ASSEMBLY BOX POWER	PLUG 2.5 FT ELECTRIC SHUT OFF ASSEMBLY BOX POWER CORD INTO NEARBY 4-PRONG 14-50R 250VAC RECEPTACLE.

MOUNTING BRACKET DETAIL



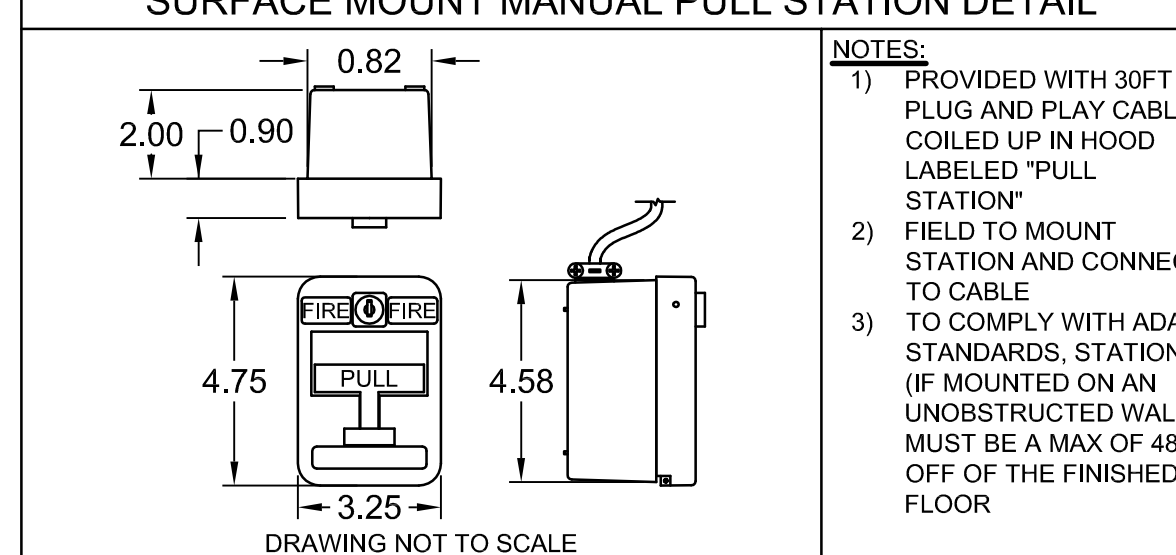
MOUNTING BRACKET KEY

- A. CRITICAL MOUNTING POINTS (MUST BE SECURED TO STUDS OR DRY WALL HANGERS)
- B. UTILIZE ONE OF THESE TWO CRITICAL POINTS FOR SECURING TO STUD OR DRY WALL HANGERS (THREE TOTAL)
- C. LOCATION FOR FACTORY PROVIDED 4" H X 6" W X 3.5" D CONTROL J-BOX
- D. HOOD SUPPORT TABS
- E. HOOD LATCH CONNECTIONS

NOTES:

- 1) BEFORE MOUNTING, SITUATE MOUNTING BRACKET ON WALL, MAKING SURE CRITICAL MOUNTING POINTS ARE MET AND DISTANCE FROM BOTTOM OF BRACKET TO COOKING SURFACE IS BETWEEN 24 AND 30 INCHES.
- 2) CUT OUT SPACE IN WALL FOR FACTORY PROVIDED CONTROL J-BOX AND SECURE IN PLACE.
- 3) SECURE MOUNTING BRACKET TO WALL USING THE PROPER FIELD PROVIDED FASTENERS USING CRITICAL MOUNTING POINTS SHOWN ABOVE.

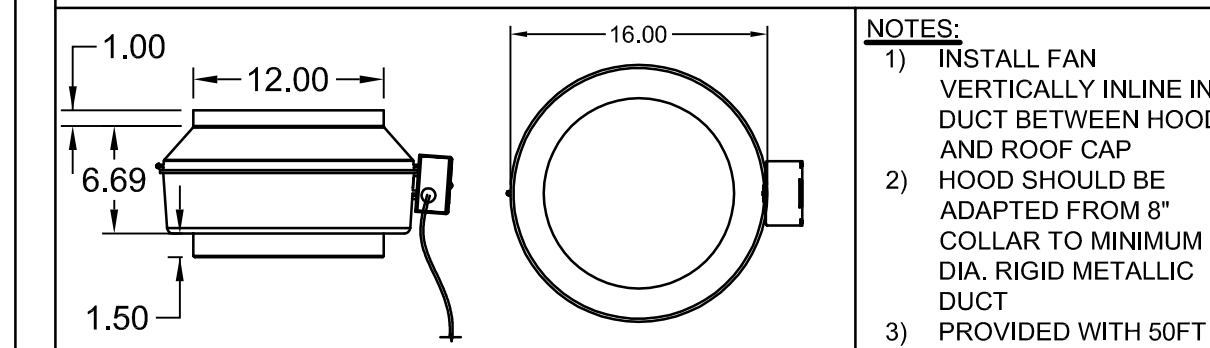
SURFACE MOUNT MANUAL PULL STATION DETAIL



NOTES:

- 1) PROVIDED WITH 30FT PLUG AND PLAY CABLE COILED UP IN HOOD LABELED "PULL STATION"
- 2) FIELD TO MOUNT STATION AND CONNECT TO CABLE
- 3) TO COMPLY WITH ADA STANDARDS, STATION (IF MOUNTED ON AN UNOBSTRUCTED WALL) MUST BE A MAX OF 48" OFF OF THE FINISHED FLOOR

FAN DETAIL - ECM EXTERNAL INLINE

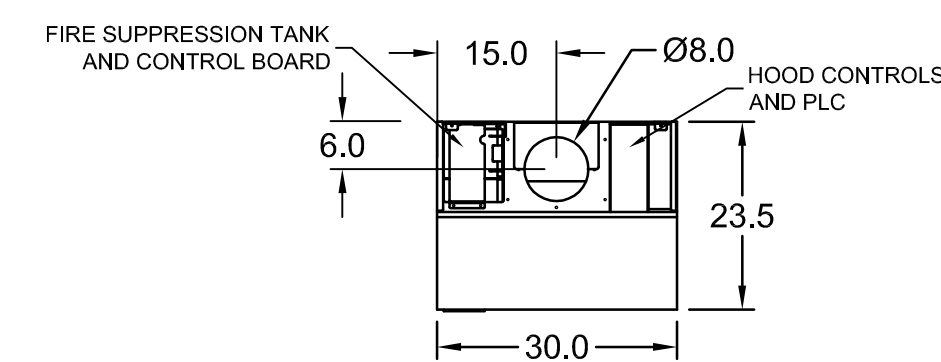


NOTES:

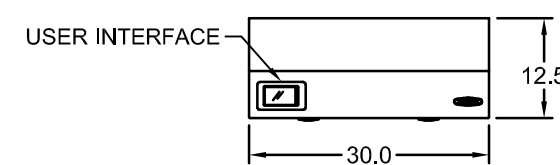
- 1) INSTALL FAN VERTICALLY INLINE IN DUCT BETWEEN HOOD AND ROOF CAP
- 2) HOOD SHOULD BE ADAPTED FROM 8" COLLAR TO MINIMUM 12" DIA. RIGID METALLIC DUCT
- 3) PROVIDED WITH 50FT PLUG AND PLAY CABLE WITH ORANGE LABEL TO CONNECT BACK TO HOOD
- 4) 35FT MAX DUCT LENGTH

VOLT	FREQ	PHASE	INPUT POWER	WEIGHT	DUCT CONN
115	60	1	166 WATTS	16 LBS	12" ROUND

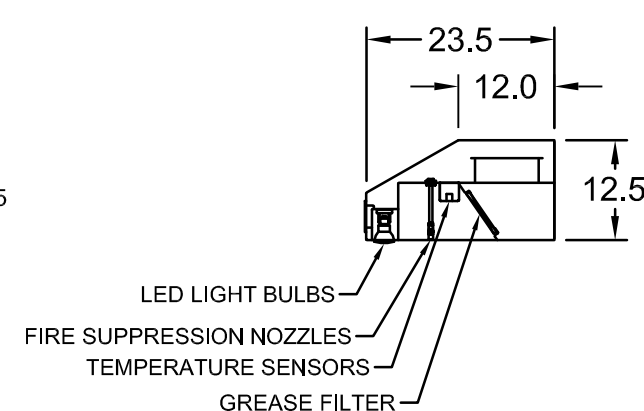
DRAWING NOT TO SCALE



MARK: KH-1
PLAN VIEW

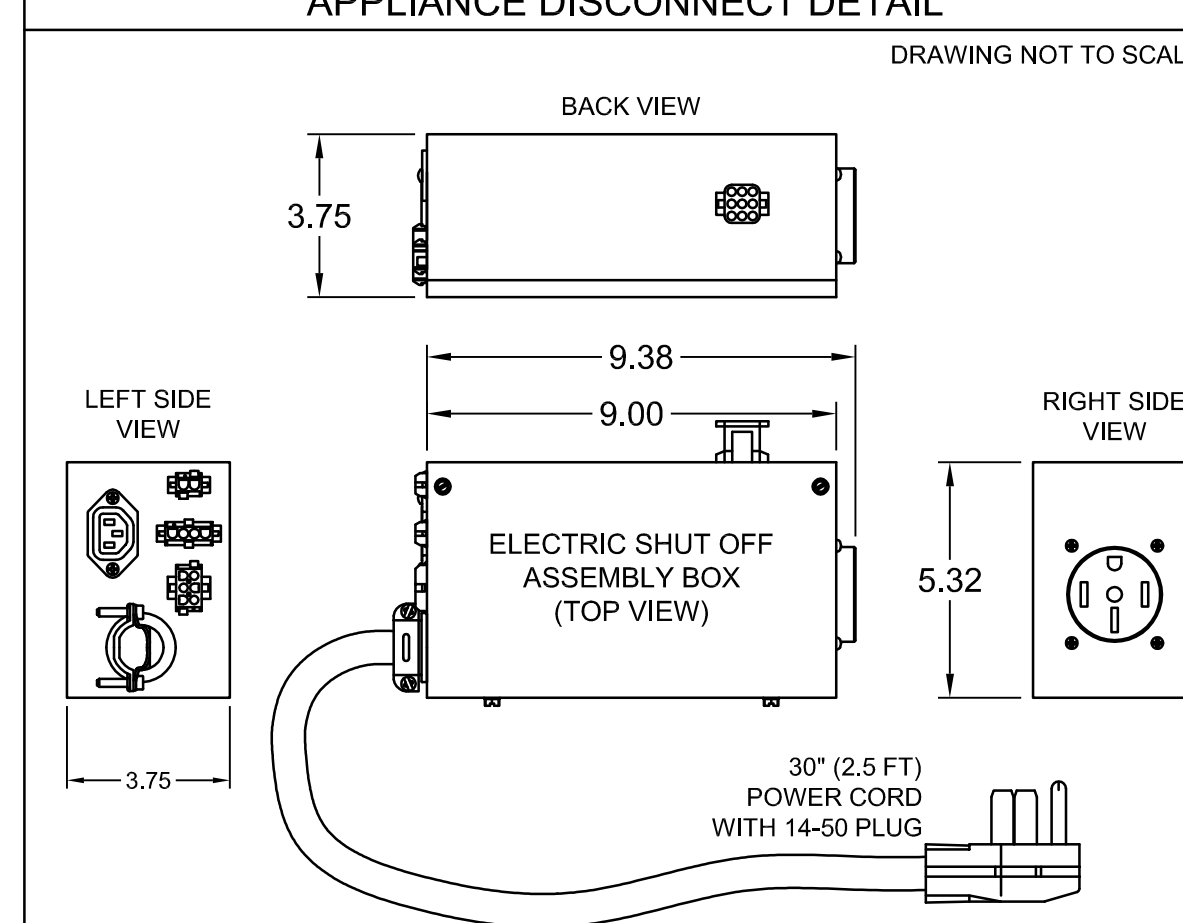


MARK: KH-1
ELEVATION VIEW



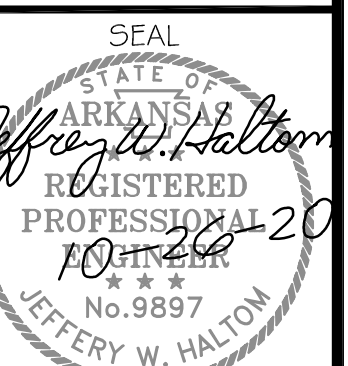
MARK: KH-1

APPLIANCE DISCONNECT DETAIL



NOTES:

- 1) PROVIDED WITH TWO (2) 10FT PLUG AND PLAY CABLES COILED UP IN HOOD, FIELD TO CONNECT CABLES TO GAS SHUT OFF ASSEMBLY BOX
- 2) FIELD TO POSITION ELECTRIC SHUT OFF ASSEMBLY BEHIND THE RANGE
- 3) FIELD TO PLUG 2.5FT CORD WITH 14-50 PLUG INTO 250VAC RECEPTACLE BEHIND THE RANGE.
- 4) FIELD TO PLUG RANGE POWER CORD INTO 250VAC RECEPTACLE ON ELECTRIC SHUT OFF ASSEMBLY BOX.



KITCHEN DETAILS
 - HVAC



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CONSTRUCTION NOTES:

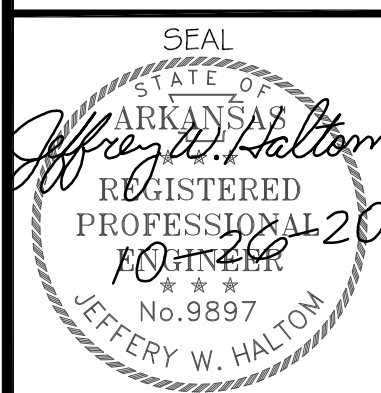
- COORDINATE PIPING WITH ALL OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.).
- COORDINATE ALL PIPING BELOW GRADE WITH STRUCTURAL GRADE FOOTING/BEAM. SEE STRUCTURAL DRAWINGS.
- COORDINATE CONDENSATE DRAIN LOCATION WITH HVAC EQUIPMENT AND CONTRACTOR.
- DOUBLE SANITARY TEE PATTERN SHALL NOT RECEIVE THE DISCHARGE OF BACK TO BACK WATER CLOSETS AND FIXTURES OR APPLIANCES WITH PUMPING ACTION DISCHARGE (DOUBLE FIXTURE FITTINGS MAY BE USED).

KEYNOTES (THIS SHEET):

◇ PROVIDE CODE APPROVED TRAP GUARD WITH FLOOR DRAIN.

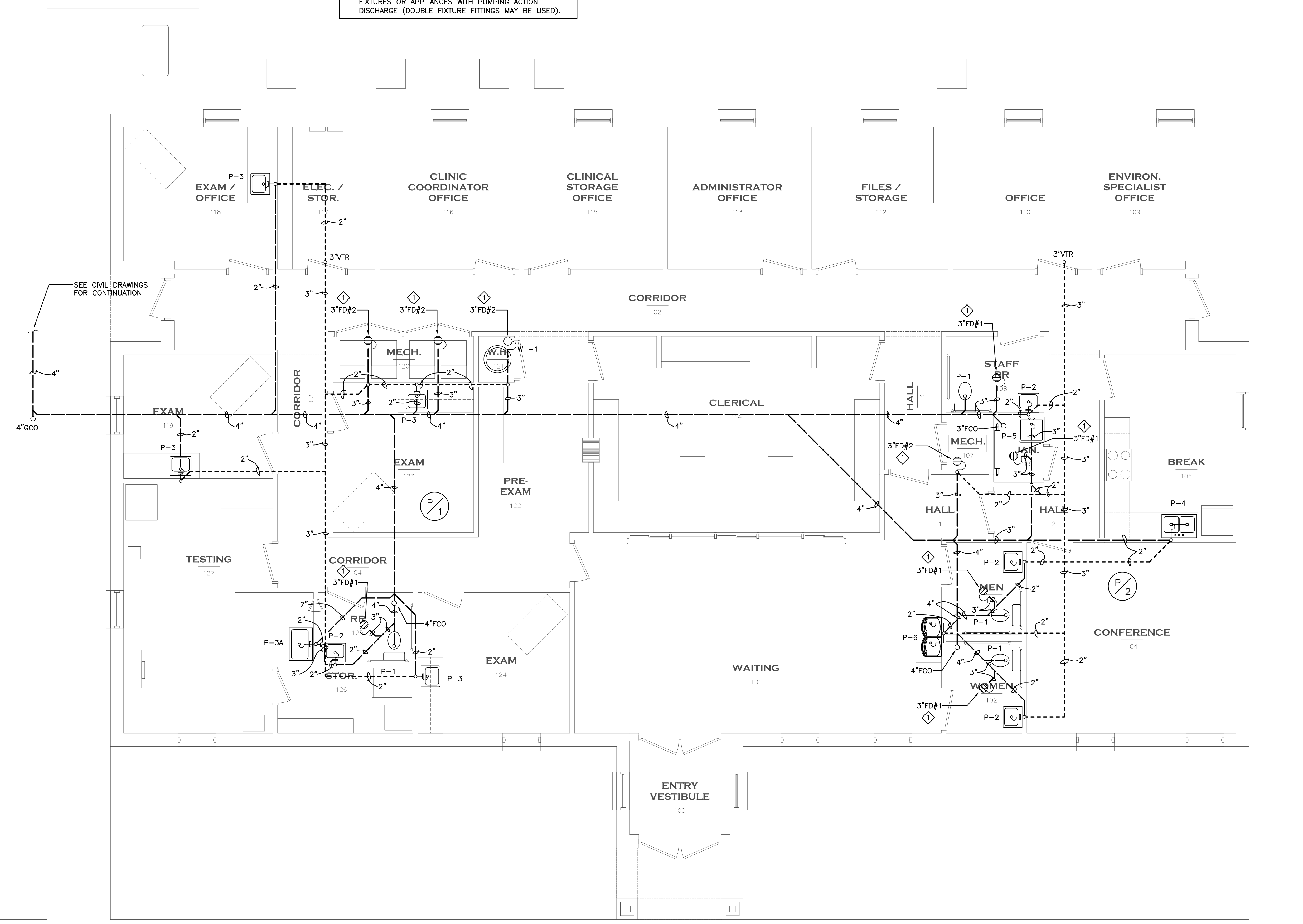
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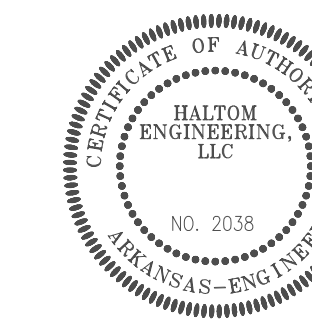
FLOOR PLAN - PLUMBING - DWV

P-1.1
 SHEET NO.



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

THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION WITH ALL TRADES, EXISTING CONDITIONS, AND ARCHITECTURAL DOCUMENTS INCLUDING REFLECTED CEILING PLANS, IS REQUIRED. NOT ALL OFFSETS AND ADJUSTMENTS ARE INDICATED.



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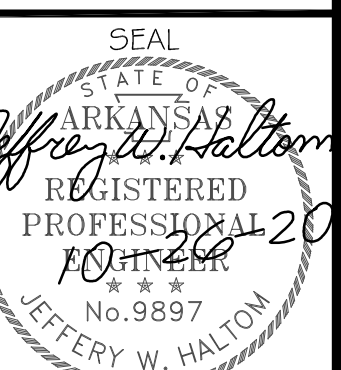
- CONSTRUCTION NOTES:**
- COORDINATE PIPING WITH ALL OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.).
 - COORDINATE ALL PIPING BELOW GRADE WITH STRUCTURAL GRADE FOOTING/BEAM. SEE STRUCTURAL DRAWINGS.
 - COORDINATE DOMESTIC WATER PIPE ROUTING WITH ATTIC INSULATION LOCATION. ALL DOMESTIC WATER PIPING SHALL BE ROUTED BELOW ATTIC INSULATION ON HEATED SIDE OF BUILDING ENVELOPE TO PREVENT FROM BEING EXPOSED TO FREEZING CONDITIONS.
 - PROVIDE 1" THICK PIPE INSULATION FOR ALL DOMESTIC WATER PIPE ROUTED IN ATTIC SPACE. PROVIDE INSULATION FOR ALL VALVES AND ACCESSORIES REQUIRED FOR DOMESTIC WATER PIPING SYSTEM. ALL VALVES SHALL BE ACCESSIBLE AND LOCATIONS IDENTIFIED.

KEYNOTES (THIS SHEET):

◇ 1 1/2" REDUCED PRESSURE BACKFLOW PREVENTER EQUAL TO WATTS 919-QT-S. PROVIDE FULL LINE SIZE DRAIN PIPE TO SPILL INTO JANITOR SINK WITH AIR GAP. SEE DETAIL ON SHEET P-2.2.

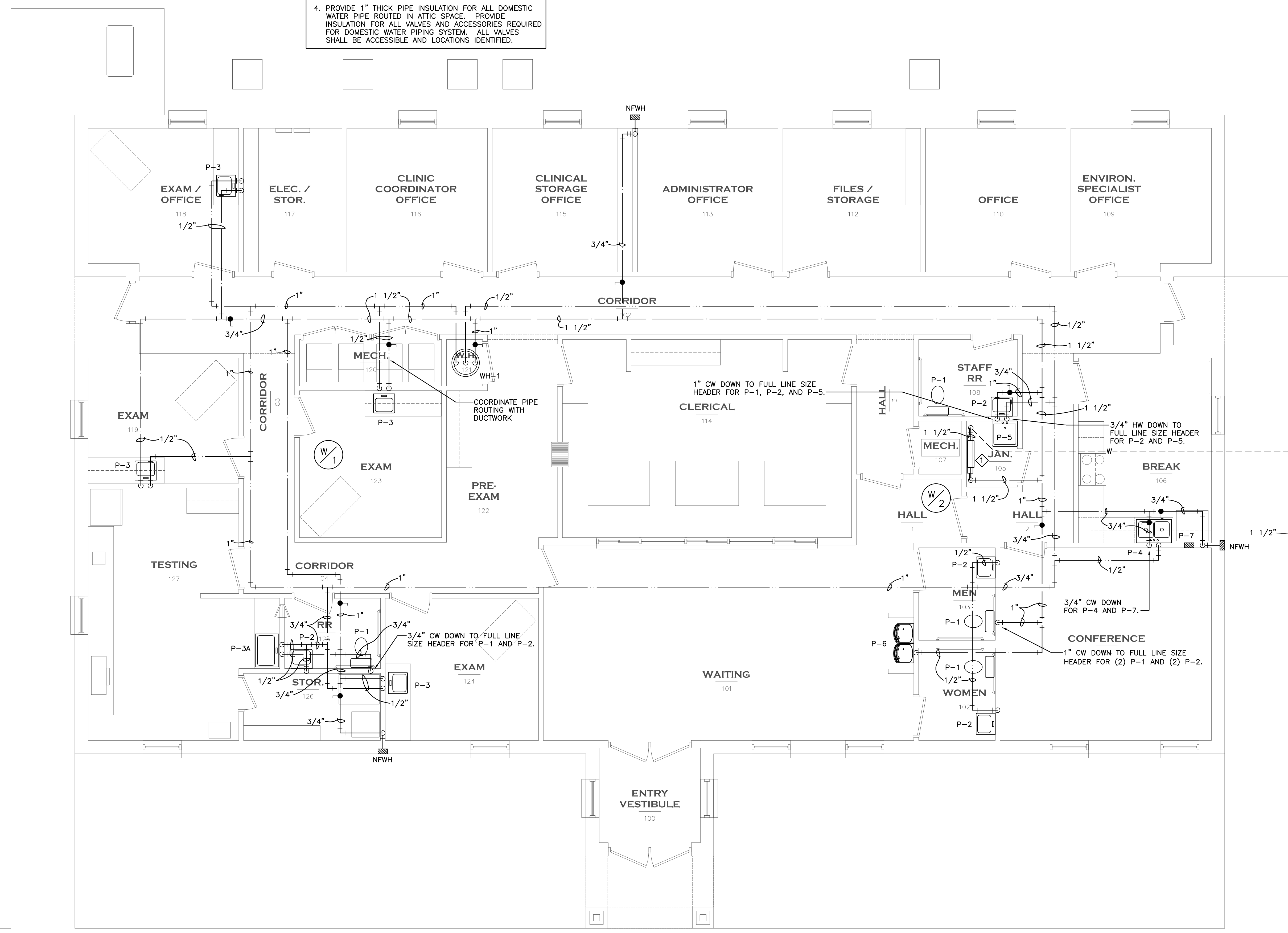
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FLOOR PLAN - PLUMBING
 - DOMESTIC WATER

P-1.2
 SHEET NO.



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

THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION WITH ALL TRADES, EXISTING CONDITIONS, AND ARCHITECTURAL DOCUMENTS INCLUDING REFLECTED CEILING PLANS, IS REQUIRED. NOT ALL OFFSETS AND ADJUSTMENTS ARE INDICATED.



PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	MFR.	MODEL NO.	BRASS MODEL NO.	TRAP	SUPPLY	REMARKS	SOIL/WASTE	VENT	CW	HW	
P-1	HANDICAPPED FLOOR MOUNTED PRESSURE-ASSISTED TANK WATER CLOSET	AMERICAN STANDARD	CADET 2467.016			MCGUIRE 2166LK	PROVIDE WATER CLOSET WITH 1.6 GPF. PROVIDE SEAT EQUAL TO CENTOCO 500STSCSS WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE. FLUSH TRIP LEVER SHALL BE LOCATED ON OPEN SIDE FOR ACCESSIBILITY.	4"	2"	1/2"		
P-2	HANDICAPPED WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	ZURN Z81000-XL	MCGUIRE 8872	MCGUIRE 2165LK	PROVIDE LAVATORY WITH 4" CENTERS AND OVERFLOW. PROVIDE SINGLE LEVER FAUCET. PROVIDE OPEN GRID DRAIN EQUAL TO MCGUIRE 155A (OR OFFSET OPEN GRID DRAIN EQUAL TO 155WC AS REQUIRED) WITH TAILPIECE AND TRUEBRO #103 INSULATION KIT. PROVIDE CONCEALED ARM CHAIR CARRIER.	2"	2"	1/2"	1/2"	
P-3	SINGLE COMPARTMENT SINK	ELKAY	LR-1919	ZURN Z831B4-XL	MCGUIRE 8912	MCGUIRE 2165LK	SINK SHALL BE PUNCHED FOR ALL TRIM. PROVIDE FAUCET WITH 5" GOOSENECK SPOUT AND WRISTBLADE LEVER HANDLES. PROVIDE MCGUIRE 151M CUP STRAINER WITH TAILPIECE.	2"	2"	1/2"	1/2"	
P-3A	SINGLE COMPARTMENT LAB SINK	ELKAY	LR-3122	ZURN Z831C4-XL	MCGUIRE 8912	MCGUIRE 2165LK	SINK SHALL BE PUNCHED FOR ALL TRIM. PROVIDE FAUCET WITH 8" GOOSENECK SPOUT AND WRISTBLADE LEVER HANDLES. PROVIDE MCGUIRE 151M CUP STRAINER WITH TAILPIECE.	2"	2"	1/2"	1/2"	
P-4	TWO COMPARTMENT SINK	ELKAY	LR-3322	ZURN Z831C4-XL	MCGUIRE 8912	MCGUIRE 2165LK	SINK SHALL BE PUNCHED FOR ALL TRIM. PROVIDE FAUCET WITH 8" GOOSENECK SPOUT AND WRISTBLADE LEVER HANDLES. PROVIDE MCGUIRE 151M CUP STRAINER WITH TAILPIECE AND CONTINUOUS WASTE.	2"	2"	1/2"	1/2"	
P-5	SERVICE BASIN	FLORESTONE	MODEL 80	ZURN Z843M1-XL			PROVIDE TERRAZZO MOP RECEPTOR WITH 24"x24"x12" SIZE, STAINLESS STEEL CAPS, MR-372 MOP HANGER, MR-370 HOSE AND BRACKET, AND MR-377 STAINLESS STEEL WALL GUARDS. FAUCET SHALL HAVE INTEGRAL STOPS.	3"	2"	1/2"	1/2"	
P-6	ELECTRIC WALL HUNG HI/LO ADA WATER COOLER	ELKAY	EZSTL8LC			MCGUIRE 8872	MCGUIRE 2165LK	PROVIDE CONTROLS ON FRONT, RIGHT, AND LEFT SIDES. PROVIDE WALL CARRIER WITH DRINKING FOUNTAIN.	2"	2"	1/2"	
P-7	WATER HOOK-UP BOX	GUY GRAY	BIM875				COORDINATE LOCATION AND ELEVATION WITH ARCHITECT.			1/2"		

PLUMBING LEGEND

SYMBOL	DESCRIPTION
---	SOIL OR WASTE BELOW FLOOR OR GRADE (S OR W)
----	SOIL OR WASTE ABOVE FLOOR OR GRADE (S OR W)
---	VENT (V)
---	DOMESTIC COLD WATER (CW)
---	DOMESTIC COLD WATER BELOW FLOOR OR GRADE (W)
---	DOMESTIC HOT WATER 120" (HW)
---	DOMESTIC HOT WATER RETURN 120" (HWR)
	GATE VALVE
●	BALL VALVE
+	CHECK VALVE
+	UNION
FD	FLOOR DRAIN (X" FD#X)
HD	HUB DRAIN
CO	CLEANOUT
WCO	WALL CLEANOUT
GCO	GRADE CLEANOUT
FCO	FLOOR CLEANOUT
VTR	VENT THRU ROOF
○	PLUMBING FIXTURES (P-X)
N.F.W.H.	NON FREEZE WALL HYDRANT
A.F.F.	ABOVE FINISHED FLOOR
P/X	SANITARY RISER DIAGRAM NUMBER
W/X	WATER RISER DIAGRAM NUMBER

DRAIN, CLEANOUT AND HYDRANT SCHEDULE

MARK	MANUFACTURE & MODEL NO.					DESCRIPTION	FINISH
	WADE	J.R. SMITH	JOSAM	ZURN	WATTS		
WCO	W-8460-R	4530	58790	Z 1446	CO-460-RD	CLEANOUT TEE W/BRASS PLUG AND ROUND STAINLESS STEEL SECURED ACCESS COVER.	STAINLESS STEEL
FCO	W-8130-AF	4020	58360	ZP 9776	CO-200-R-34B	CAST IRON FLOOR CLEANOUT W/ADJUSTABLE BRASS TOP, BRASS PLUG & ROUND SECURED SCORAIATED COVER.	NICKEL BRASS
GCO	W-8130-AF	4020	58360	ZP 9776	CO-200-R-34B	SAME AS FCO EXCEPT FINISH. SET IN 12"x12"x6" DEEP CONC.PAD.	BRASS
CO	W-8550-X	4420 W/RAISED HEAD PLUG	58490-20	Z-1440-BP-A	CO-380	CAST IRON CLEANOUT FERRULE WITH TAPERED RAISED HEAD BRASS PLUG.	CAST IRON
FD#1	W-1100-STD6	2010-A	30000A	ZB-415-B6	FD-100-A6	CAST IRON FLOOR DRAIN W/FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS & ADJUSTABLE 6" DIAMETER STRAINER.	SATIN BRONZE
FD#2	W-1100-ER7	2010-F37	30000 7E1	ZB-415-17	FD-100-ER7	CAST IRON FLOOR DRAIN W/ FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, & ADJUSTABLE 7" DIAMETER STRAINER WITH EXTENDED RIM.	SATIN BRONZE
NFWH	W-8600-175	5509	71650	Z-1300	HY-725	NON-FREEZE ANTI-SIPHON WALL HYDRANT W/BRONZE CASING AND INTEGRAL BACKFLOW PREVENTER & BRONZE BOX.	NICKEL BRONZE

ELECTRIC WATER HEATER SCHEDULE

MARK	STORAGE (GAL.)	RECOVERY 80°F RISE	ELECTRICAL		CIRCULATOR						REMARKS	MFG.	MODEL	
			KW	VOLTS/PH	MARK	GPM	HEAD	MFG.	MODEL	ELECTRICAL				
										HP				VOLTS/PH
WH-1	50	23	4.5	208/1	CP-1	5	5 FT.	GRUNDFOS	UP15-18 SF	1/25	120/1	PROVIDE WITH ASME T&P RELIEF VALVE; NON-SIMULTANEOUS OPERATION; SEE NOTES	A.O. SMITH	DEN-52

NOTES

- PROVIDE ISOLATION VALVE SET 519755 WITH CIRCULATOR PUMP.
- PROVIDE TIMER CONTROL WITH CIRCULATOR PUMP.

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE

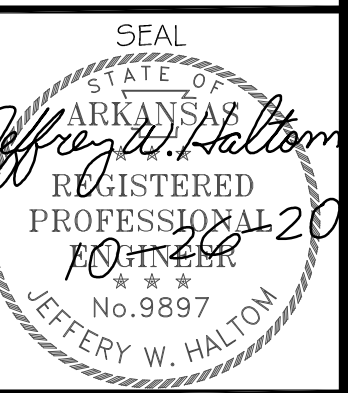
MARK	MFG.	MODEL NO.	SIZE	"A"
RPBP#1	WATTS	919-QT-S	1 1/2"	18"

GENERAL NOTES

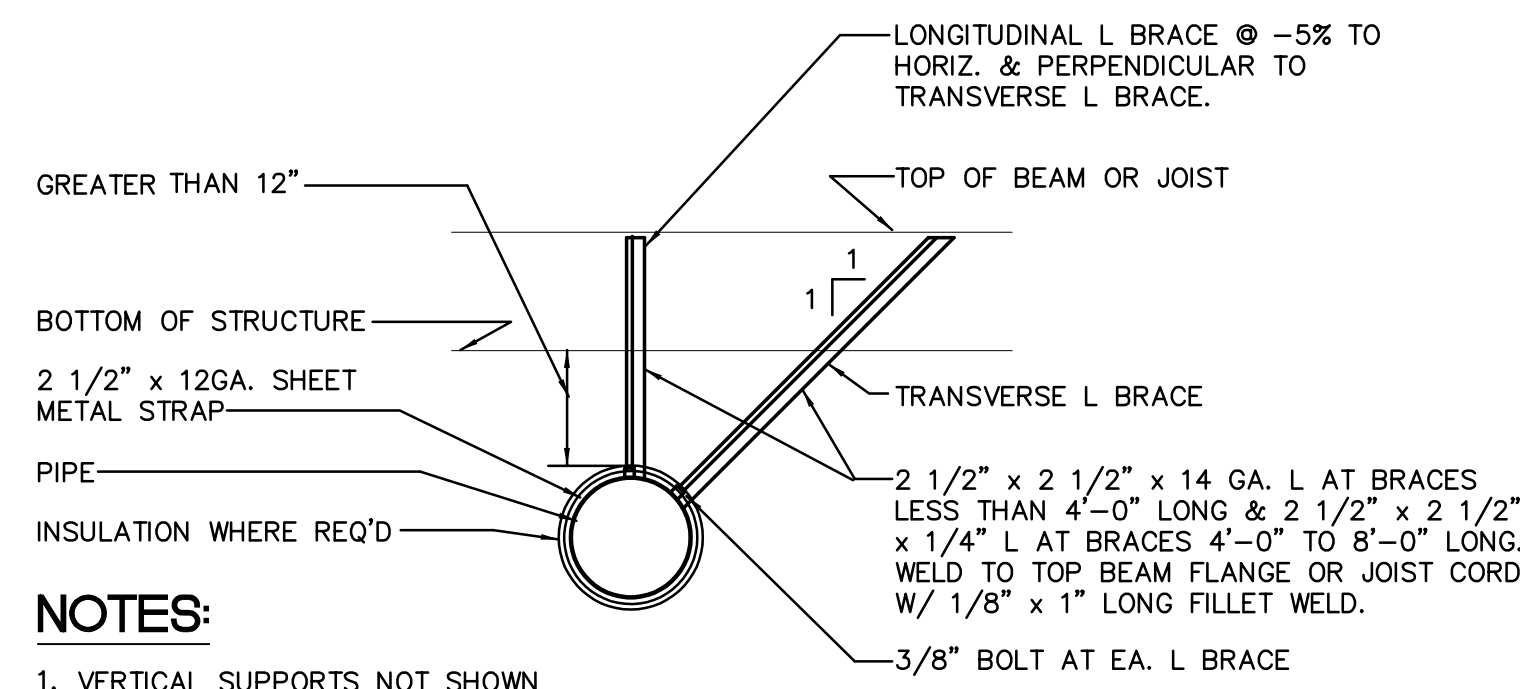
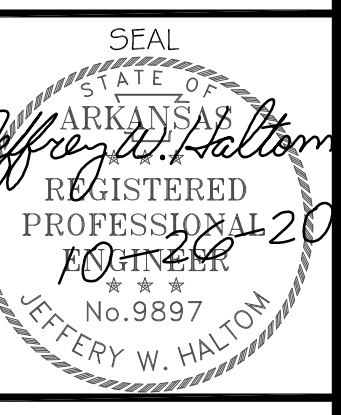
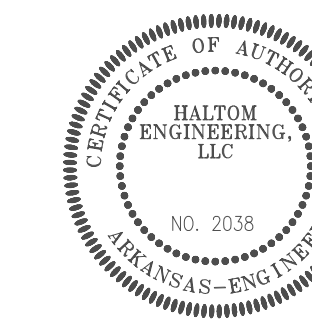
- UNLESS NOTED OTHERWISE, RUN CW AND HW PIPING FULL SIZE THROUGH LENGTH OF CHASE, AND MAKE CONNECTIONS TO FIXTURES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE. PROVIDE RIGID SUPPORT AND BLOCKING IN CHASE FOR HEADER AND BRANCH PIPING, AND FOR VALVE TO PREVENT ANY MOVEMENT.
- PROVIDE CLEANOUTS ON SANITARY DWV PIPING AND CONDENSATE DRAIN PIPING AS INDICATED ON THE DRAWINGS, AND AS REQUIRED BY LOCAL AND STATE CODES. INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS. COORDINATE TOP OF COFG ELEVATION WITH TOP OF FINISHED GRADE.
- NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION AND BOX WITH KEY. INSTALL WALL HYDRANT 18" ABOVE OUTSIDE GRADE.
- EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM, OR AT LEAST 3 FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT.
- UNLESS NOTED OTHERWISE, SLOPE ALL SANITARY DWV AND CONDENSATE DRAIN PIPING 3" PIPE SIZE AND LARGER A MINIMUM OF 1/8" PER FOOT OF RUN, AND 2" PIPE SIZE AND SMALLER A MINIMUM 1/4" PER FOOT OF RUN. SLOPE VENT PIPING DOWN AND BACK TO FIXTURES.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING. THE CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS AND CONFIRM SPACE ALLOCATIONS.
- FIELD VERIFY EXACT LOCATIONS AND SIZES OF EXISTING SERVICES SHOWN ON DRAWINGS PRIOR TO PRICING, FABRICATION, OR CONSTRUCTION. FIELD LOCATE ALL OTHER EXISTING SERVICES IN THE AREA OF THIS PROJECT BEFORE CONSTRUCTION.
- PROVIDE ALL NECESSARY VALVES, TRAPS, FLOW CONTROLS, FILTERS, BACKFLOW PREVENTERS, FAUCETS, STOPS, TAILPIECES, VACUUM BREAKERS, IF NOT FURNISHED ON, OR WITH NEW EQUIPMENT.
- PROVIDE HAND SHUTOFF VALVES ON ALL HOT AND COLD WATER LINES AT STUB-IN, AND AS SHOWN ON PLANS.
- PROVIDE APPROVED CHROME PLATED TYPE VACUUM BREAKERS WHERE REQUIRED BY LOCAL CODES, AND AS INDICATED ON PLANS FOR WORK.
- VERIFY ALL FLOW LINES PRIOR TO ROUGHING IN.
- FURNISH ACCESS PANELS TO BE INSTALLED BY GENERAL CONTRACTOR AS REQUIRED FOR PLUMBING INSTALLATIONS. ALL VALVES SHALL BE ACCESSIBLE.
- PROVIDE DIELECTRIC UNIONS WHERE CONNECTIONS ARE MADE BETWEEN DISSIMILAR PIPE MATERIALS.

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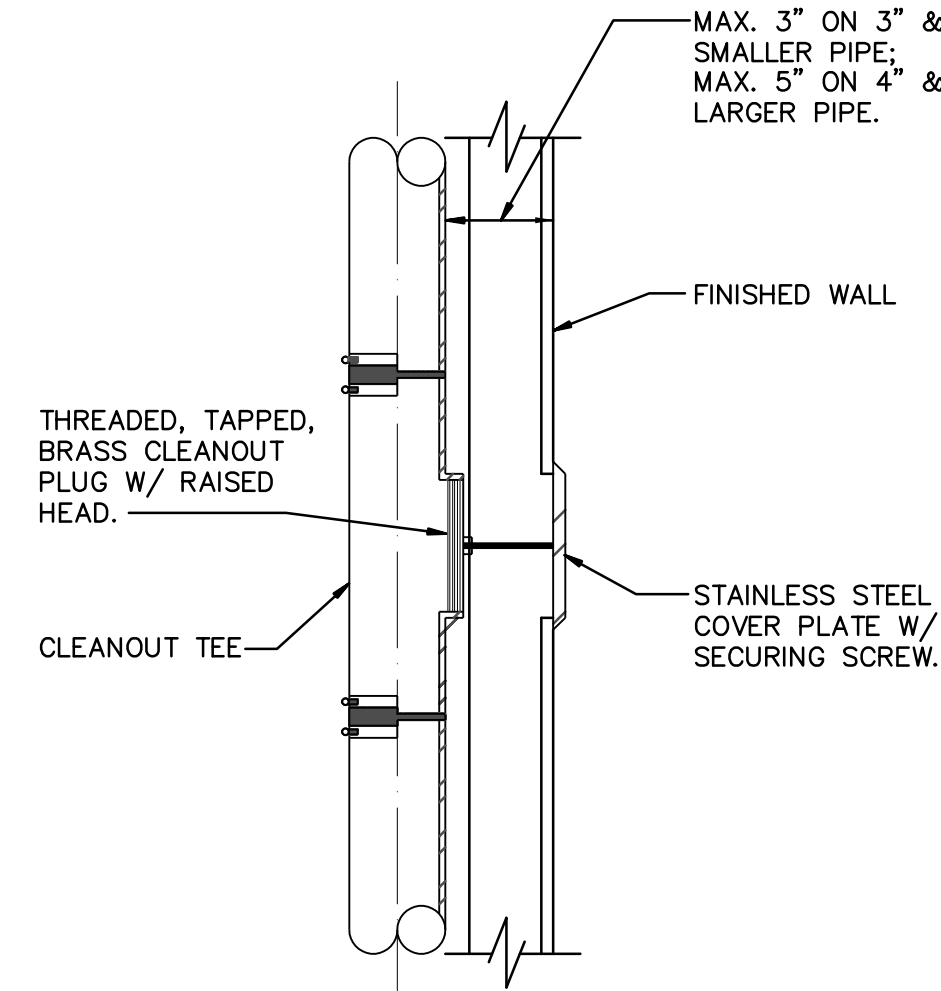
SCHEDULES, NOTES, AND LEGEND - PLUMBING



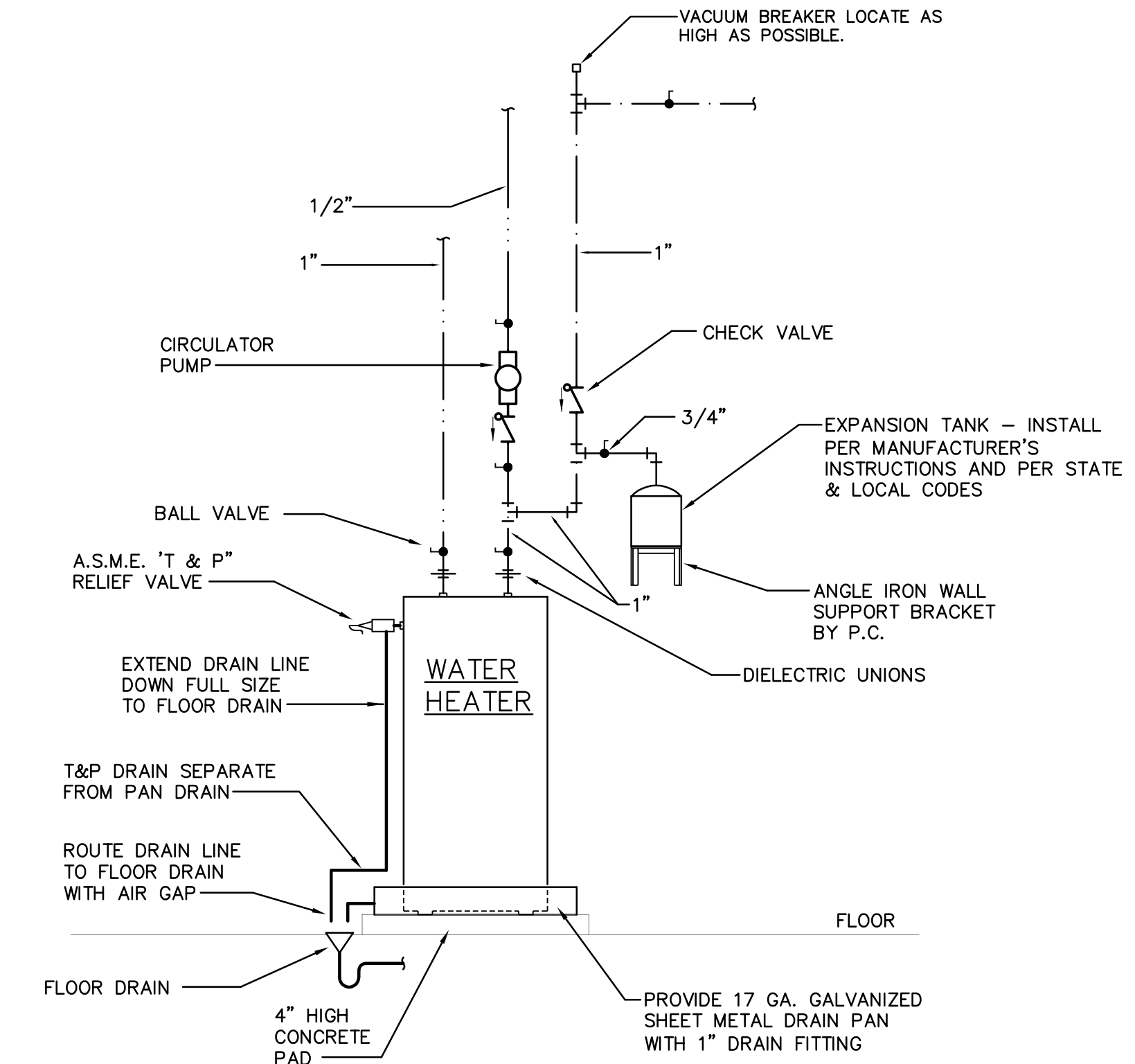
NOTES:

1. VERTICAL SUPPORTS NOT SHOWN
2. BRACE TO STRUCTURE IN PERPENDICULAR DIRECTIONS BASED ON MAX. WEIGHT OF BRACED ITEM = 2000#/PAIR OF BRACS. MAX. SPACING BETWEEN PAIR OF BRACES = 30'-0".
3. SEISMIC BRACING AS SHOWN ON DETAIL IS NOT REQUIRED FOR PIPING LESS THAN 1 1/4" INSIDE DIAMETER IN MECHANICAL EQUIPMENT ROOMS, ALL OTHER PIPING LESS THAN 2 1/2" INSIDE DIAMETER AND ALL PIPING SUSPENDED BY HANGERS WITH TOP OF PIPE WITHIN 12" OF STRUCTURE.

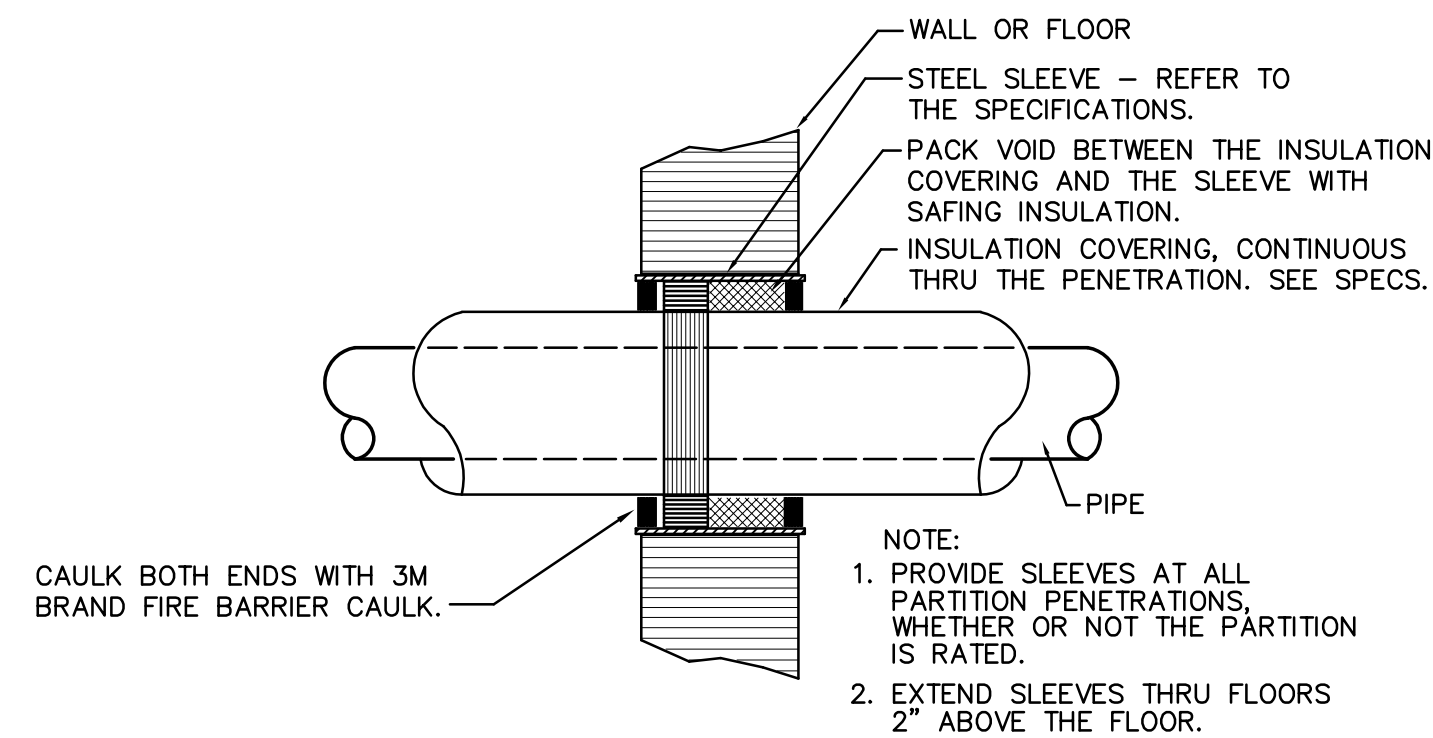
SEISMIC BRACING DETAIL
NO SCALE



WALL CLEANOUT (WCO)
NO SCALE

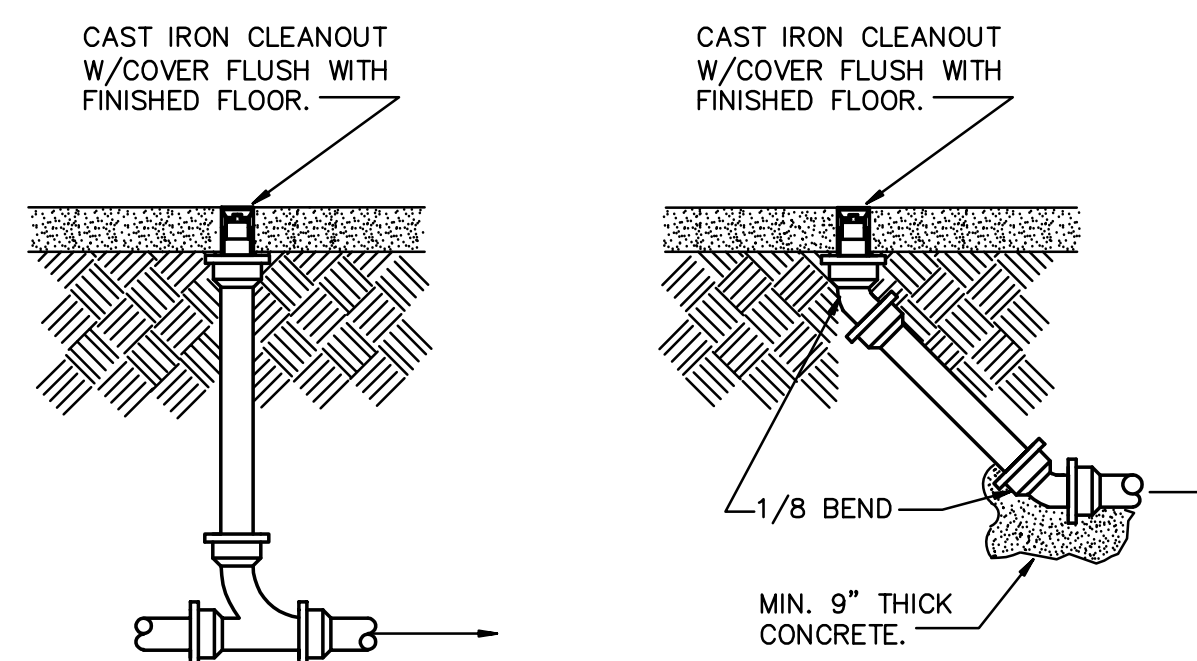


WH-1 PIPING SCHEMATIC
NO SCALE

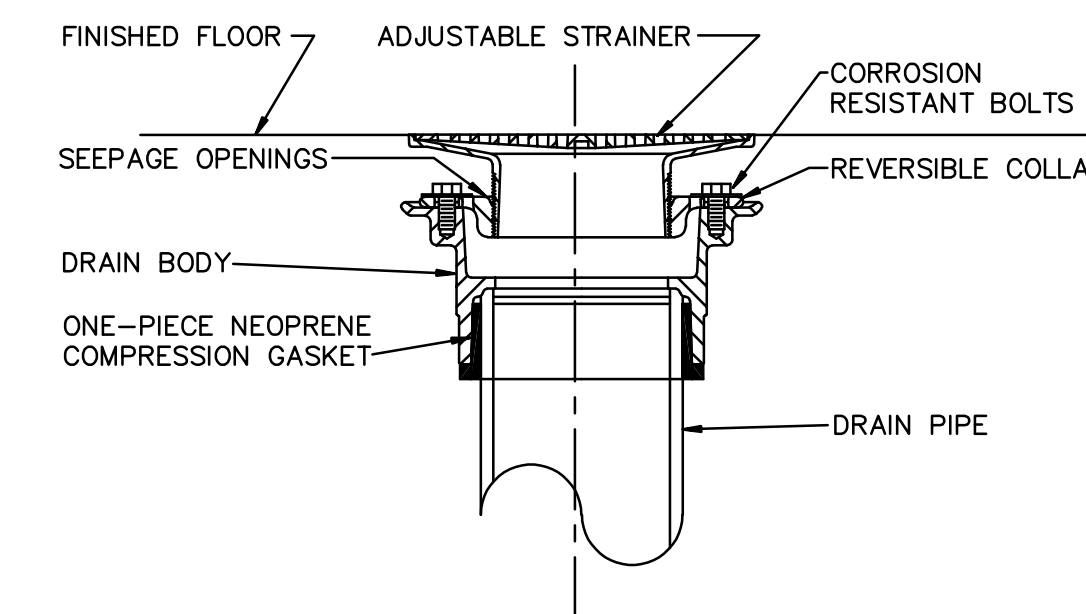


- NOTE:**
1. PROVIDE SLEEVES AT ALL PARTITION PENETRATIONS, WHETHER OR NOT THE PARTITION IS RATED.
 2. EXTEND SLEEVES THRU FLOORS 2" ABOVE THE FLOOR.

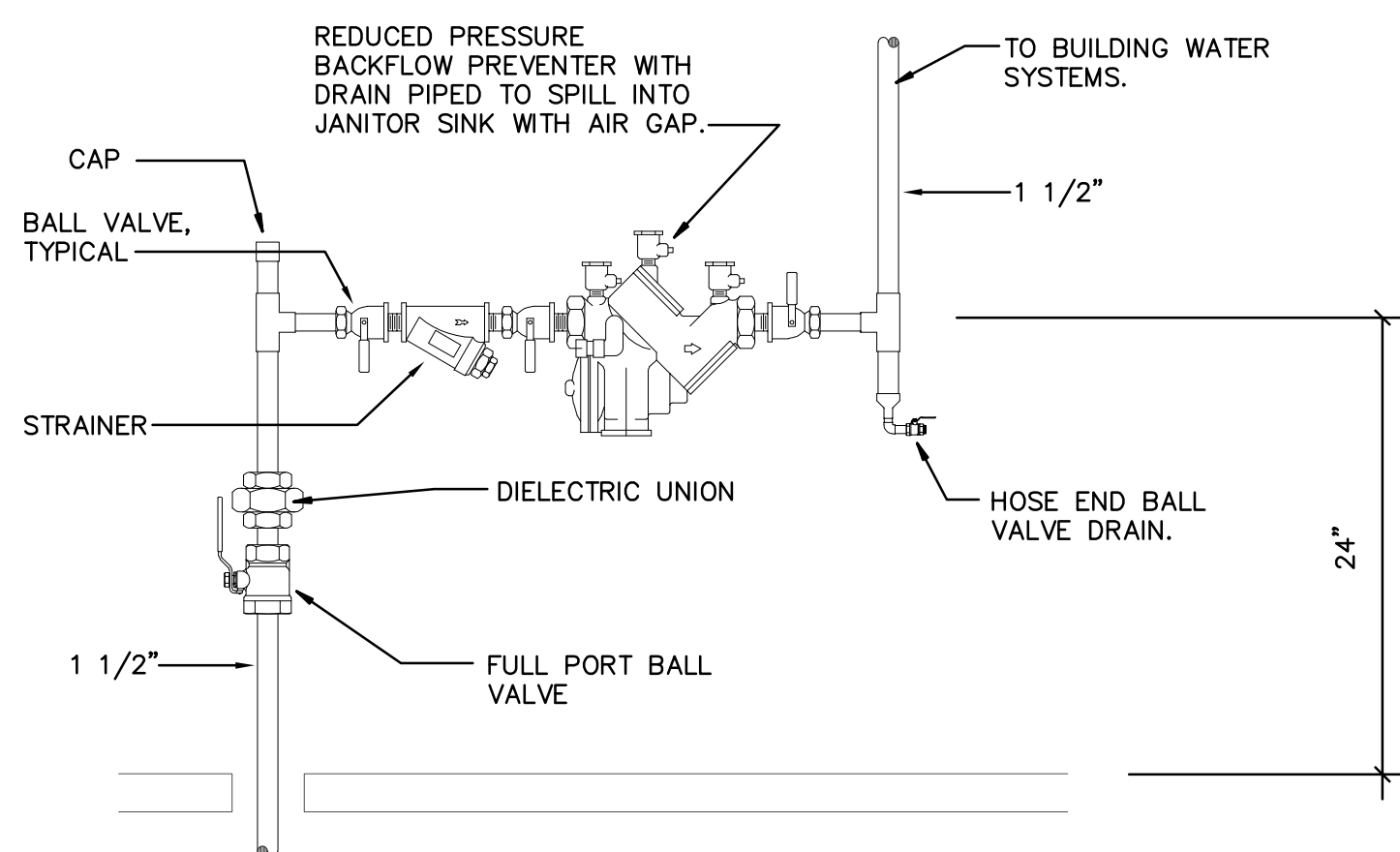
PIPE PENETRATION DETAIL
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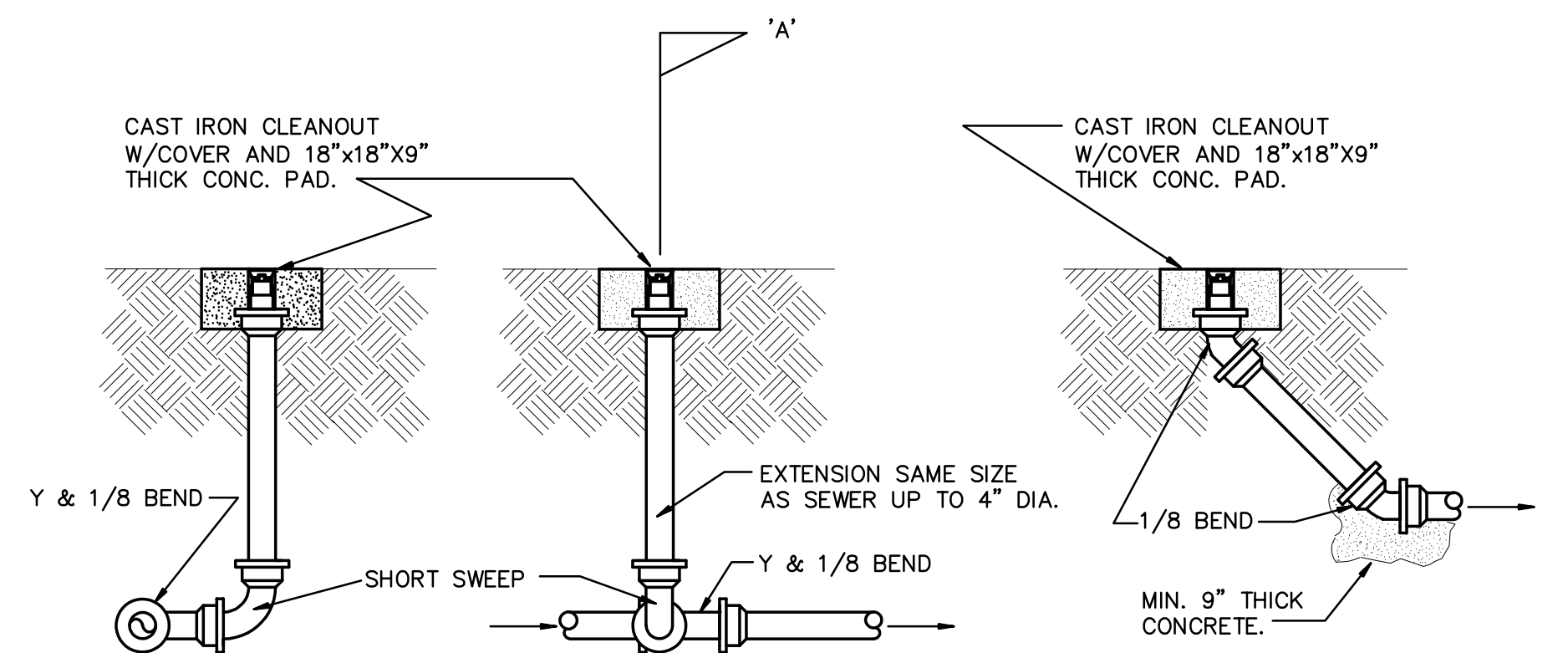
FLOOR CLEANOUT DETAILS
NO SCALE



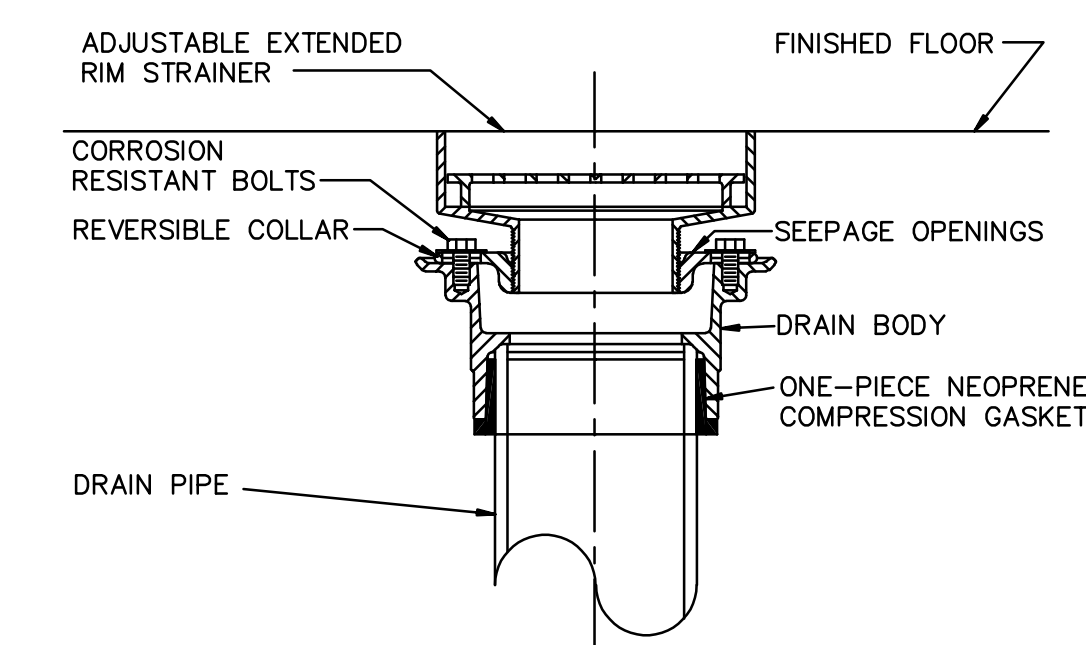
FLOOR DRAIN #1 DETAIL
NO SCALE



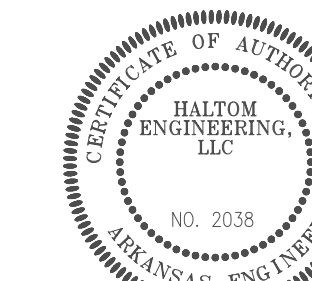
REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
NO SCALE



GRADE CLEANOUT DETAILS
NO SCALE



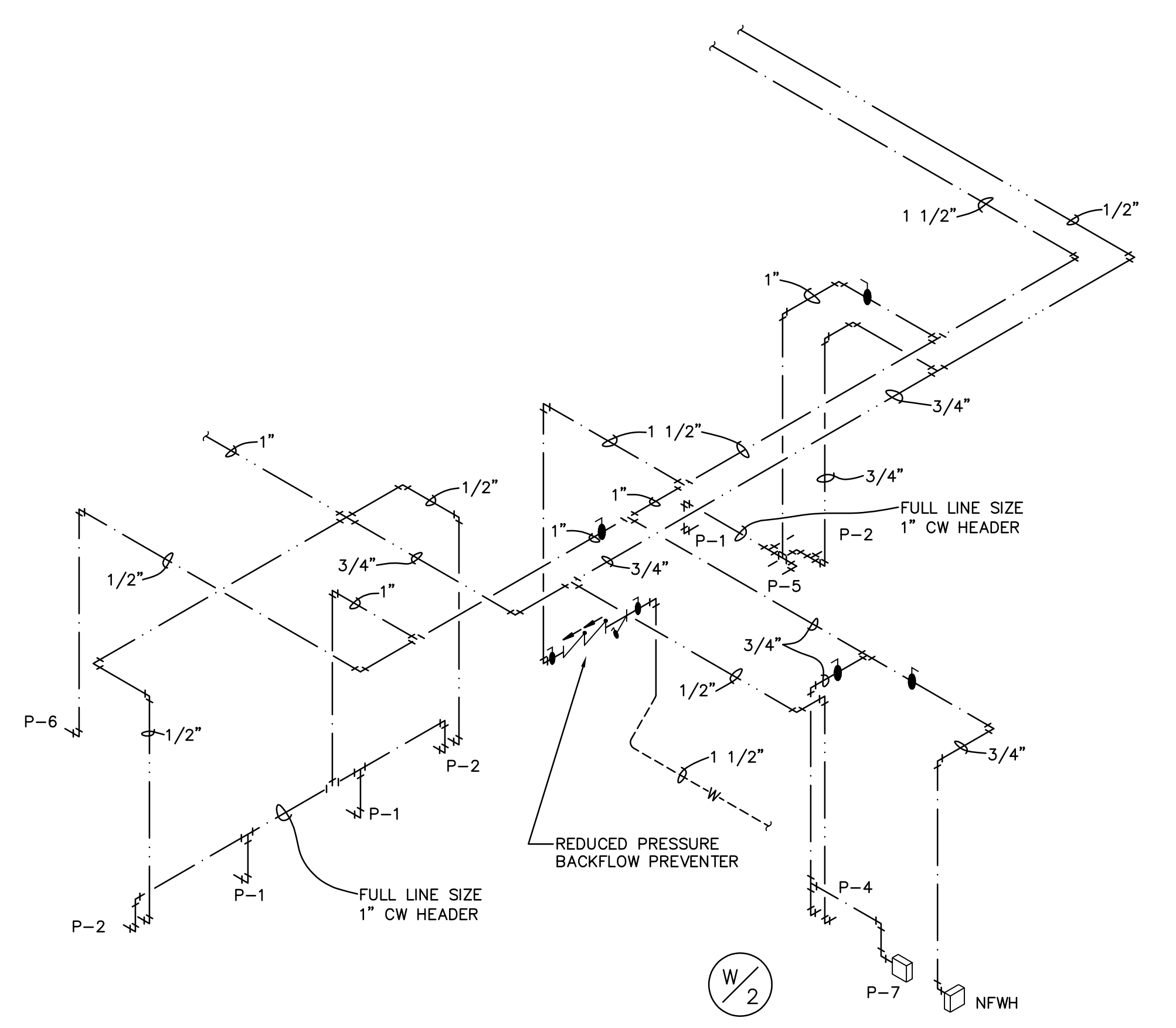
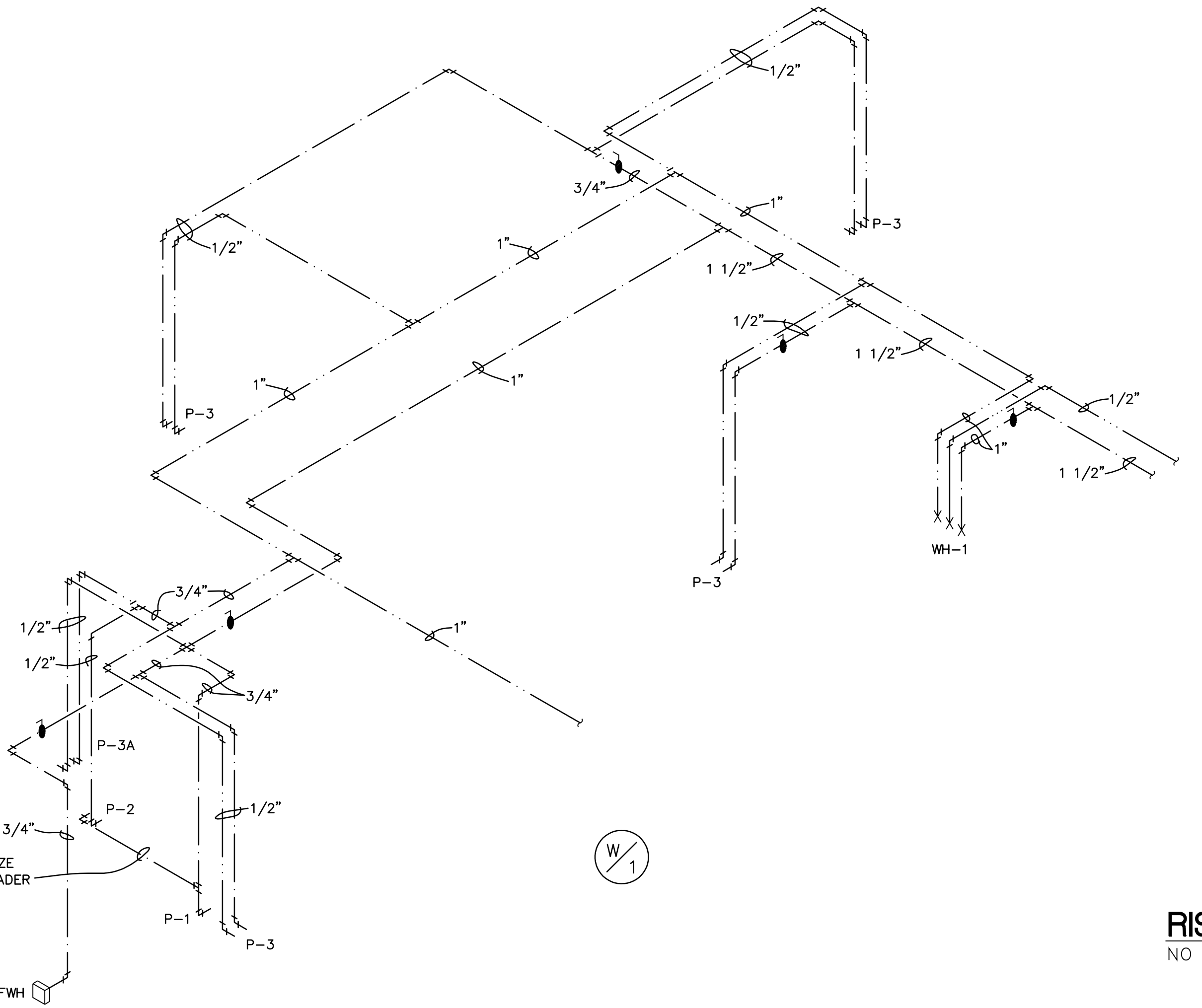
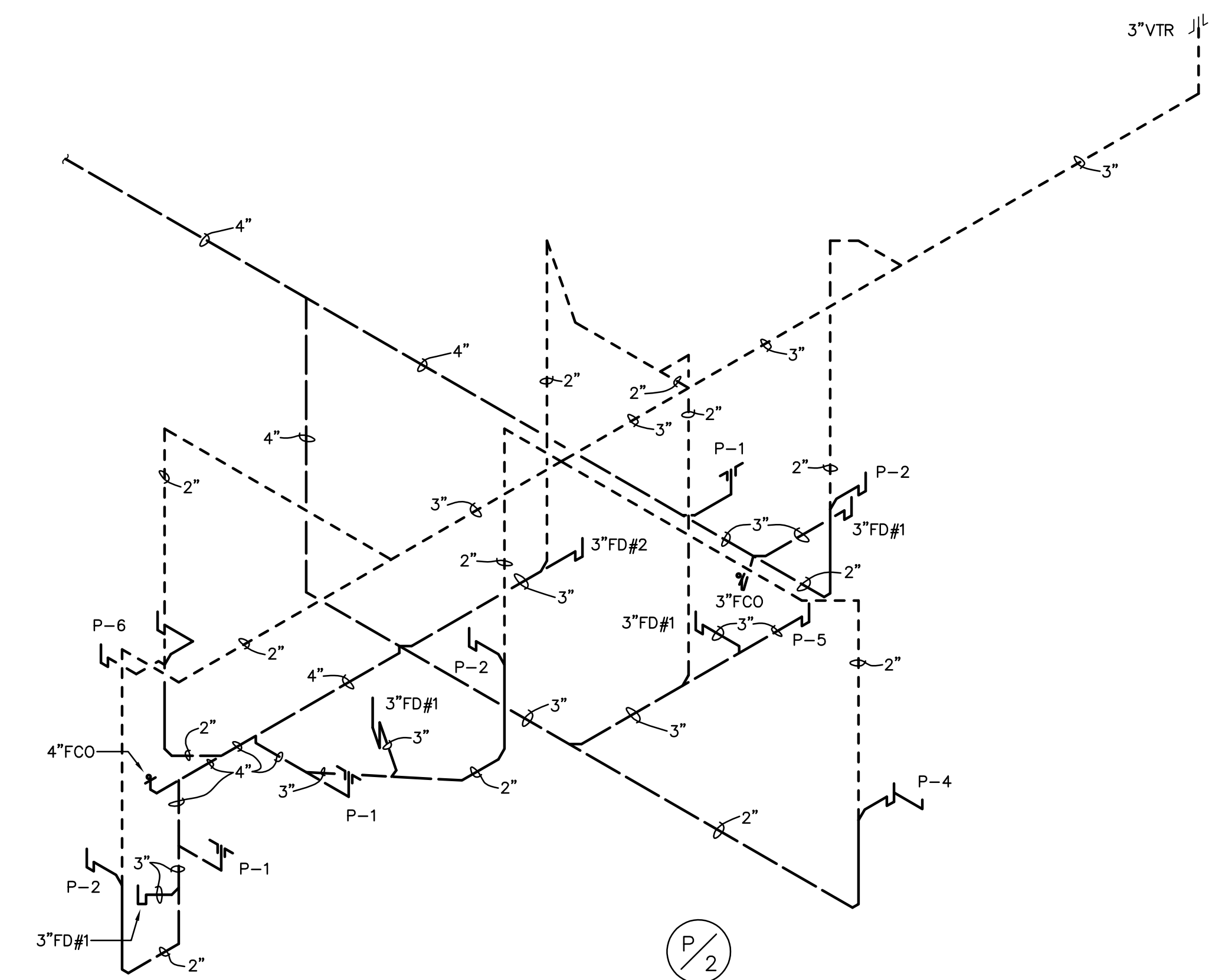
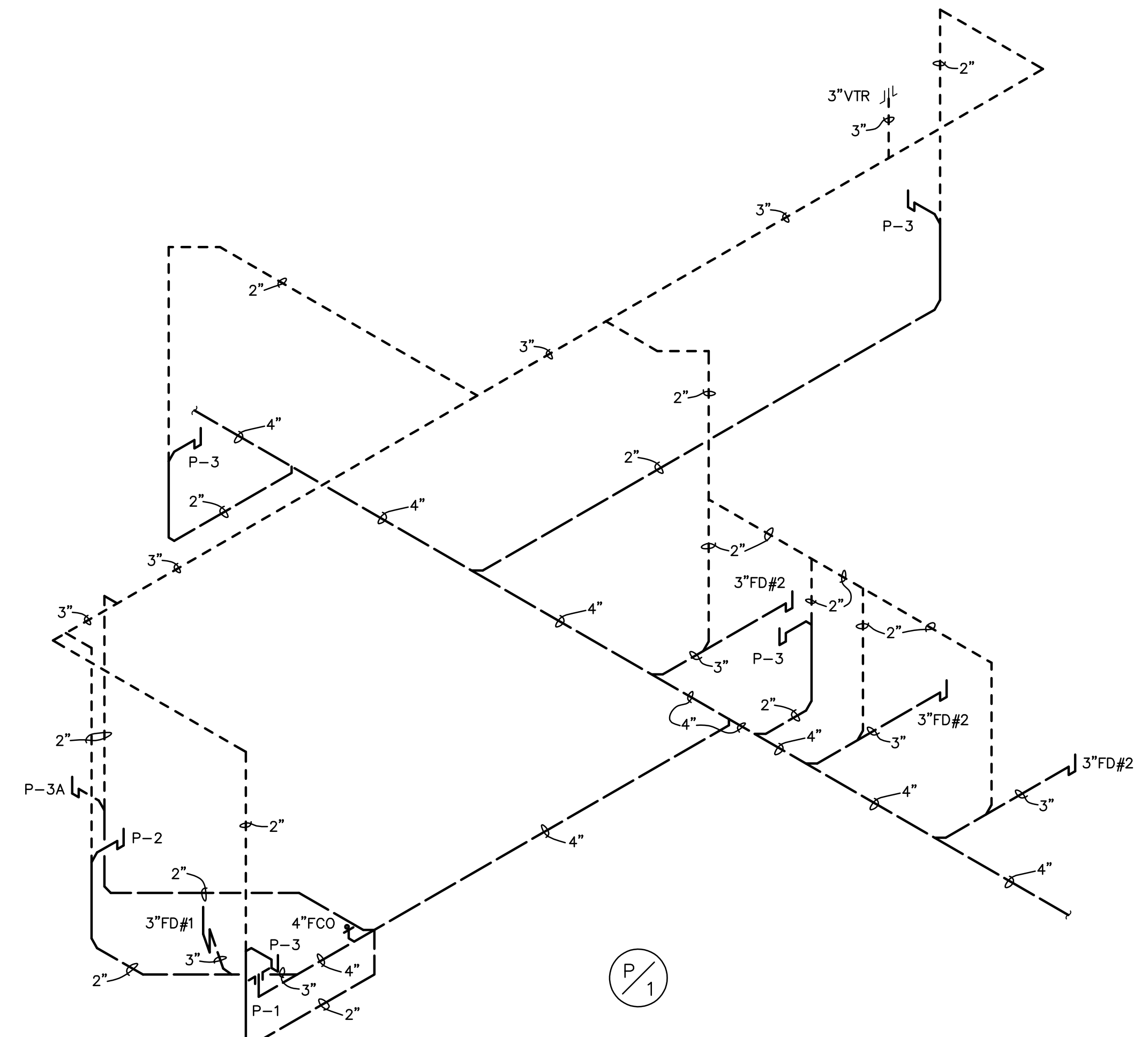
EQUIPMENT FLOOR DRAIN #2 DETAIL
NO SCALE



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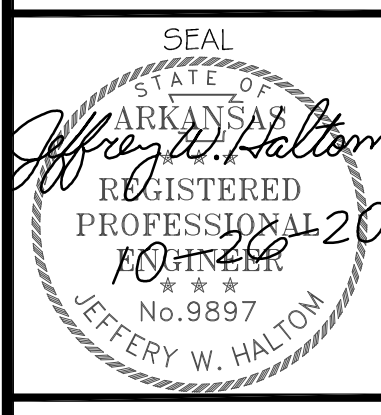
PROJECT NO. 190807
 DATE: 10-26-20
 DRAWN BY: JH
 REVISION:
 DATE:
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RISER DIAGRAMS
 NO SCALE

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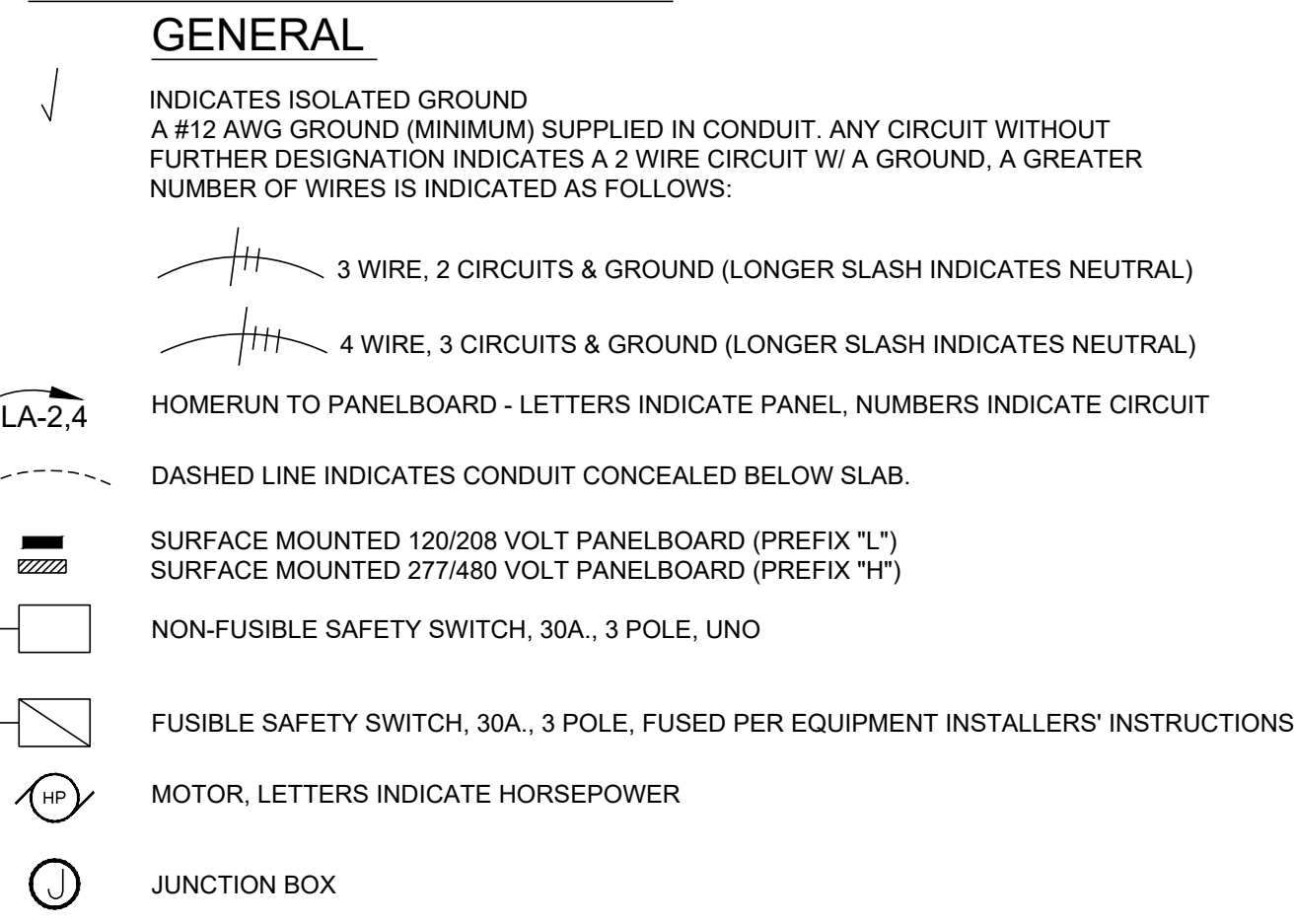


RISER DIAGRAMS - PLUMBING

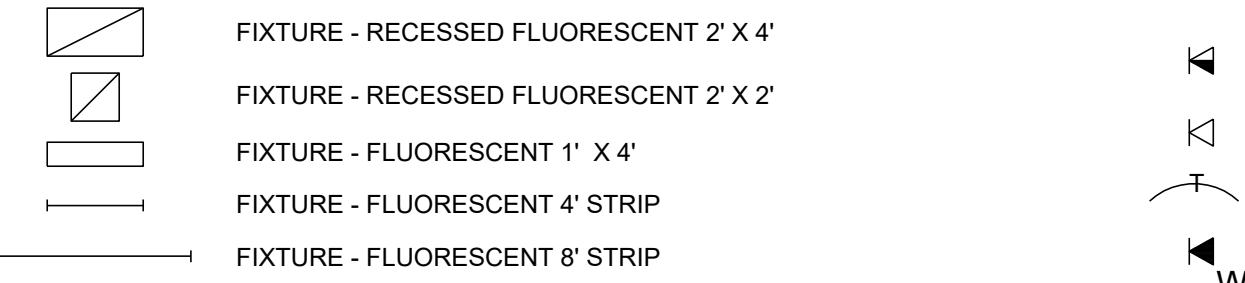
P-2.3

SHEET NO.

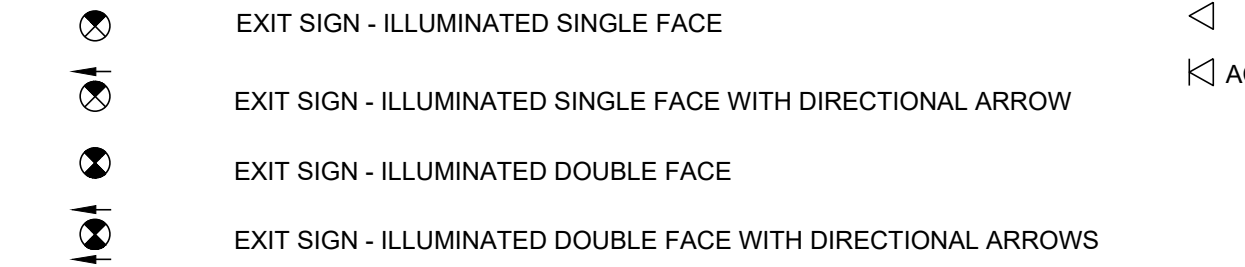
ELECTRICAL LEGEND



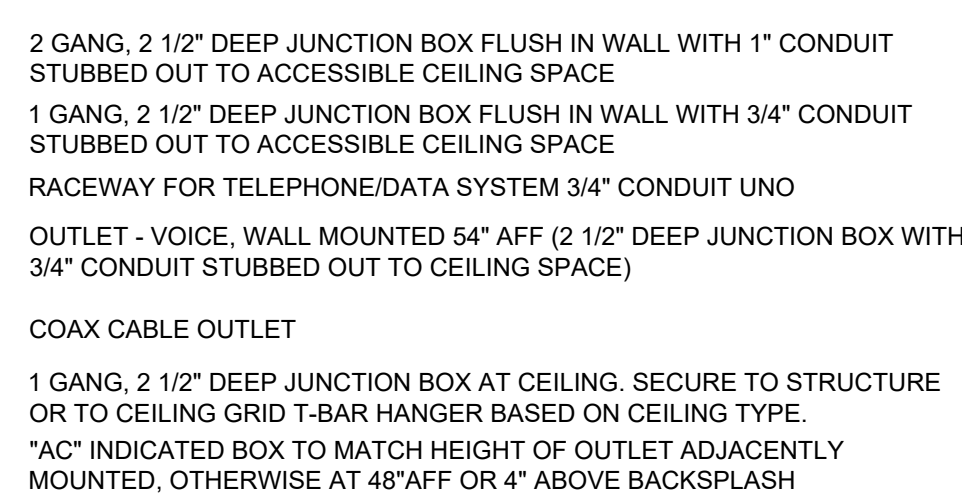
INTERIOR LUMINAIRES



EMERGENCY LIGHTING



AUXILIARY SYSTEMS

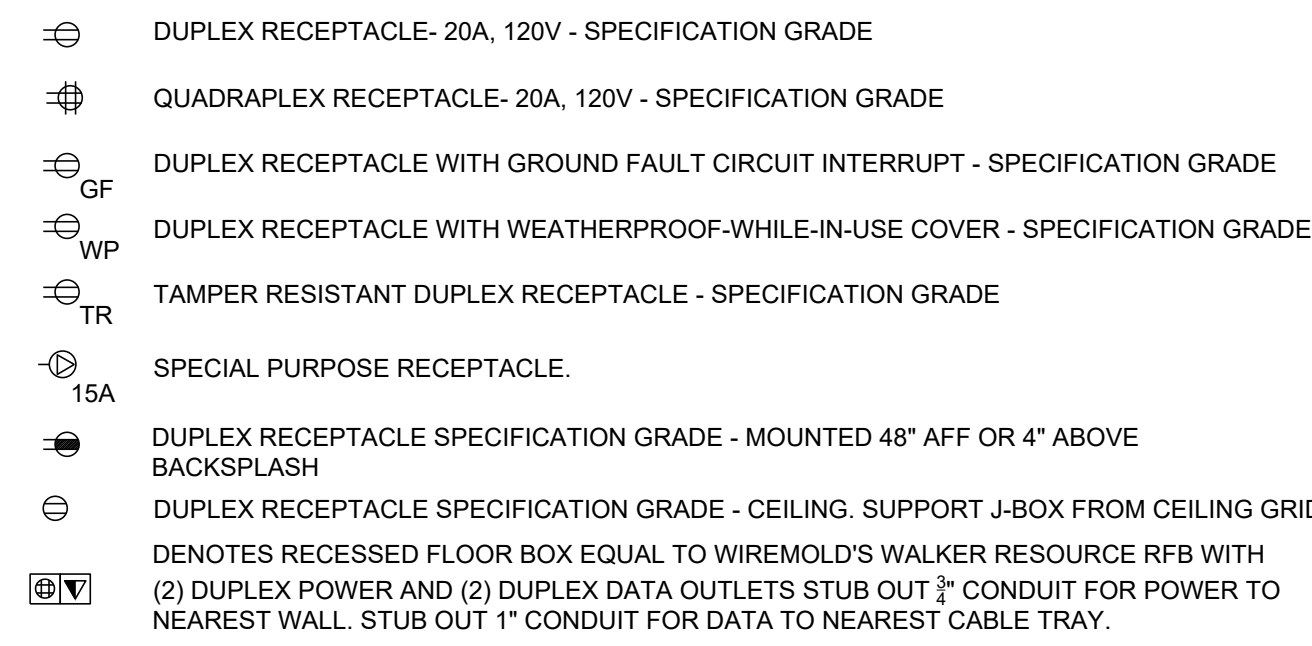


LIGHTING FIXTURE SCHEDULE

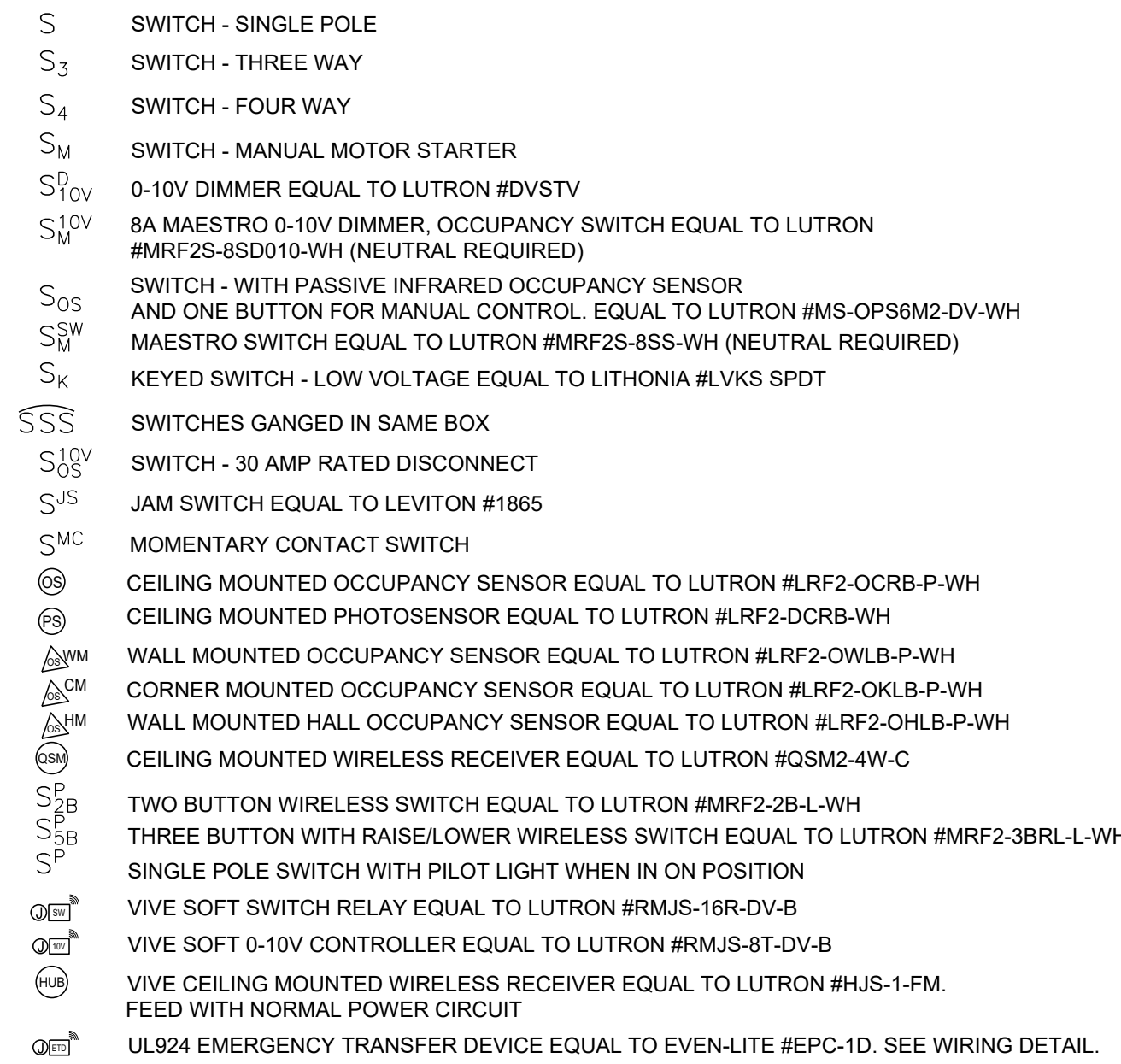
MK	MFG	DESCRIPTION	LAMP	MOUNTING	REMARKS
A	COOPER	22-FPX-25-L835-HE-FPXSURF22	2551 LUMEN LED 3500°K, 80+CRI (21W)	SURFACE	
B	COOPER	22-FPX-32-L835-FPXSURF22	3543 LUMEN LED 3500°K, 80+CRI (31W)	SURFACE	
C	COOPER	24-FPX-38-L835-HE-FPXSURF22	3780 LUMEN LED 3500°K, 80+CRI (29W)	SURFACE	
D	COOPER	24-FPX-47-L835-FPXSURF22	4756 LUMEN LED 3500°K, 80+CRI (40W)	SURFACE	
E	COOPER	HC6-20-D010-HB128APK-HM6-12-835-61-WD-W	2045 LUMEN LED 3500°K, 90+CRI (21W)	RECESSED	
AA	COOPER	GPC-AF-02-LED-E1-T4FT-BZ-QM	12,784 LUMEN LED 4000°K, 70+CRI (113W)	POLE MOUNT ON 20" POLE WITH 30" BASE	SEE POLE BASE DETAIL. ARCHITECT TO CONFIRM FINISH COLOR
BB	COOPER	IST-AF-350-LED-E1-SL3-BZ	2,271 LUMEN LED 4000°K, 70+CRI (20W)	SURFACE AS NOTED ON ARCH. ELEV.	ARCHITECT TO CONFIRM FINISH COLOR
CC	COOPER	HC6-20-D010-HB128APK-HM6-12-840-61-WD-W	2,045 LUMEN LED 4000°K, 90+CRI (21W)	RECESSED	ARCHITECT TO CONFIRM FINISH COLOR
DD	OCL LIGHTING	AU1-O10A-18-GW-BNP-LED1-40K-UNV-DM1	1,050 LUMEN LED 4000°K, 90+CRI (20W)	SURFACE AS NOTED ON ARCH. ELEV.	ARCHITECT TO CONFIRM FINISH COLOR
	COOPER	APX7-R	RED LED	WALL AT 6" ABOVE DOOR HEADER	CONNECT TO AN UNSWITCHED HOT CONDUCTOR OF THE EMERGENCY CIRCUIT

LIGHTING AND CONTROLS BIDDING PROCEDURES
CONTRACTOR WILL PROVIDE BASE BID FOR LIGHTING AND LIGHTING CONTROLS FROM SPECIFIED MANUFACTURER. IF ALTERNATE MANUFACTURER IS DESIRED, PROVIDE ALTERNATE AND SPECIFIED PACKAGE PRICING WITH SUBSTITUTIONS IN SUBMITTAL. ALL CHARACTERISTIC OF SPECIFIED PACKAGE SHALL MEET OR EXCEED IN ALTERNATE PACKAGE. VE PACKAGES WILL BE EVALUATED AFTER ORIGINAL AS SPECIFIED PACKAGE IS EVALUATED AND AN AGREEMENT TO THE OWNER AS TO THE DIFFERENCES BETWEEN CHARACTERISTICS OF THE LIGHTING PACKAGE.

RECEPTACLES



SWITCHES

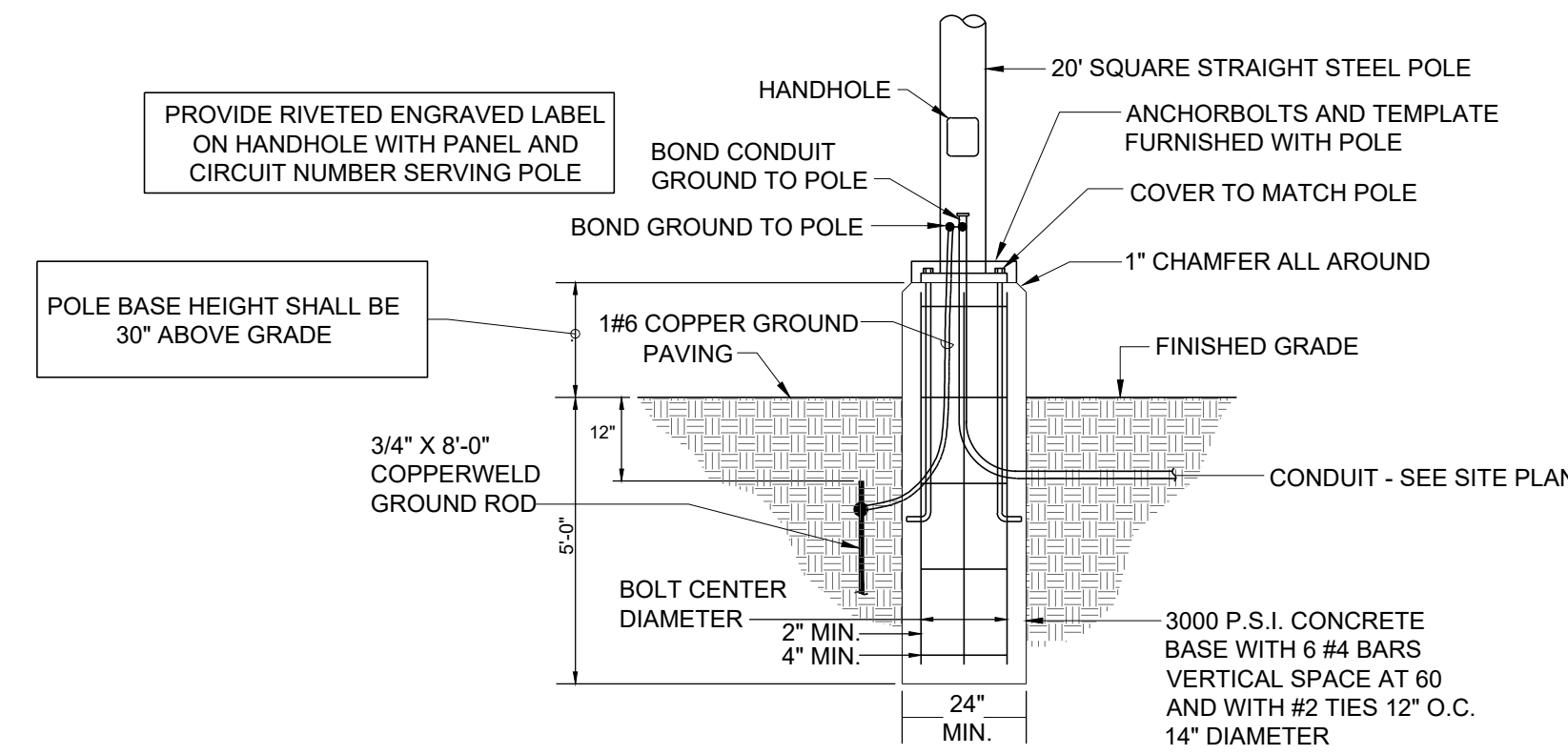


NOTES:

- ALL THE SYMBOLS MAY NOT HAVE BEEN USED ON THE PLANS. SYMBOLS NOT LISTED IN THE LEGEND ARE IDENTIFIED WHERE THEY OCCUR.
- ALL NOTES IN THIS SECTION MAY NOT BE USED IN THIS SET OF PLANS. IF OTHER NOTES ARE NECESSARY, THEY WILL BE IDENTIFIED ON THE SHEETS WHERE THEY OCCUR.
- THE PLANS ARE GENERALLY DIAGRAMMATIC. THE CONTRACTOR SHALL HARMONIZE THE WORK OF THE DIFFERENT TRADES SO THAT INTERFERENCE BETWEEN CONDUIT, PIPING, EQUIPMENT, MECHANICAL, ARCHITECTURAL AND STRUCTURAL WORK WILL BE AVOIDED.
- UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUITS SHALL BE MINIMUM #12 A.W.G. CONDUCTOR. ANY BRANCH CIRCUIT RUN OVER 75 FEET IN LENGTH, MEASURED ONE WAY FROM THE PANEL TO THE FIRST OUTLET OF THE CIRCUIT, SHALL BE A MINIMUM #10 A.W.G. CONDUCTOR FOR THE ENTIRE LENGTH OF THE CIRCUIT. CONDUCTOR SIZE SHOWN ARE MINIMUM. VERIFY SIZE TO ACCOMMODATE VOLTAGE DROP BASED ON CIRCUIT ROUTE IN FIELD SO THAT VOLTAGE DROP DOES NOT EXCEED 3%.
- ALL FLUSH MOUNTED WALL OUTLETS IN MASONRY WALLS SHALL BEGIN AND END AT THE NEAREST MASONRY COURSE TO THE DIMENSION NOTED OR SPECIFIED.
- ALL RUNS OF EMPTY CONDUIT OVER 25 FEET IN LENGTH SHALL BE FURNISHED WITH A NYLON PULLCORD.
- ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.), ARTICLE 250.
- ABBREVIATIONS MAY BE USED FOR SYMBOL SUBSCRIPTS.
- COORDINATE EQUIPMENT CONNECTION REQUIREMENTS WITH OWNER OR SUPPLIER PRIOR TO ROUGH-IN.
- PROVIDE JUNCTION BOX FOR THERMOSTAT. PROVIDE 1/2" CONDUIT FROM BOX TO AHU IN EQUIPMENT ROOM. COORDINATE WITH DIVISION 15 FOR THERMOSTAT AND AHU LOCATIONS. PROVIDE PULL ROPE IN CONDUIT.

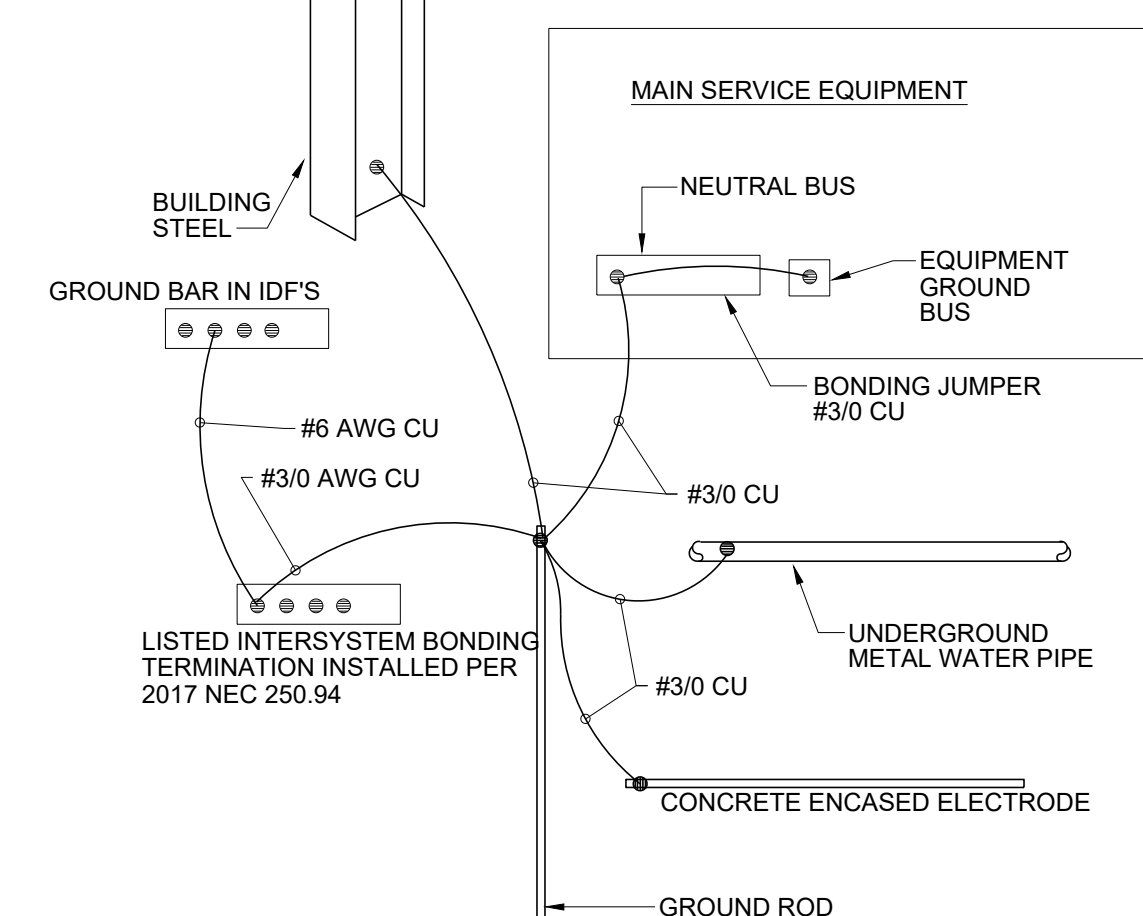
LOAD		LOAD		BKR	CKT	PH	CHT	BKR	LOAD	LOAD	
A	B	C							A	B	C
AHU-1	7680	7680	800	3	1	a	2	300	2232	2232	
AHU-3	7680	7680	800	5	7	a	8	200	1440	1440	
AHU-5	7680	7680	800	11	13	a	14	300	2232	2232	
AHU-2	3840	3840	400	15	19	a	20	300	2232	2232	
AHU-4	4800	4800	500	21	25	a	26	200	1800	2232	
WH-1	2250	2250	300	27	29	b	28	500	1800	2500	RANGE
LIGHTING	848	200	31	31	32			2500			5KW ASSUMED
LIGHTING	876	200	33	33	34			200	1200		MICROWAVE
RECEPTS - RM 116, 117, ATTC FANS	1080	200	35	35	36			200	1200		BREAKROOM FRIDGE
RECEPTS - RM 115	900	200	37	37	38			200	900		SINK DISPOSER
RECEPTS - RMS 113, 112	1080	200	39	39	40			200	540		BREAKROOM COUNTER RECEPTS
			41	41	42			200	360		BKRM RECEPTS AND HOOD

LOAD		LOAD		BKR	CKT	PH	CHT	BKR	LOAD	LOAD	
A	B								A	B	
IDF RACK OUTLETS	360	200	1	a	2			200	1200		LAB FRIDGE 1
LAB RECEPTACLES	720	360	200	3	b	4		200	1200		LAB FRIDGE 2
EMERGENCY LIGHTING	876	200	200	5	a	6		200	1200	900	LAB FREEZER
SPARE			200	7	b	8		200			LAB RECEPTACLES
SPARE			200	9	a	10		200			SPARE
SPARE			200	11	b	12		200			SPARE
SPARE			200	13	a	14		-/1			SPACE
SPARE			200	15	b	16		-/1			SPACE
SPARE			200	17	a	18		-/1			SPACE
SPARE			200	19	b	20		-/1			SPACE
SPARE			200	21	a	22		-/1			SPACE
SPARE			200	23	b	24		-/1			SPACE

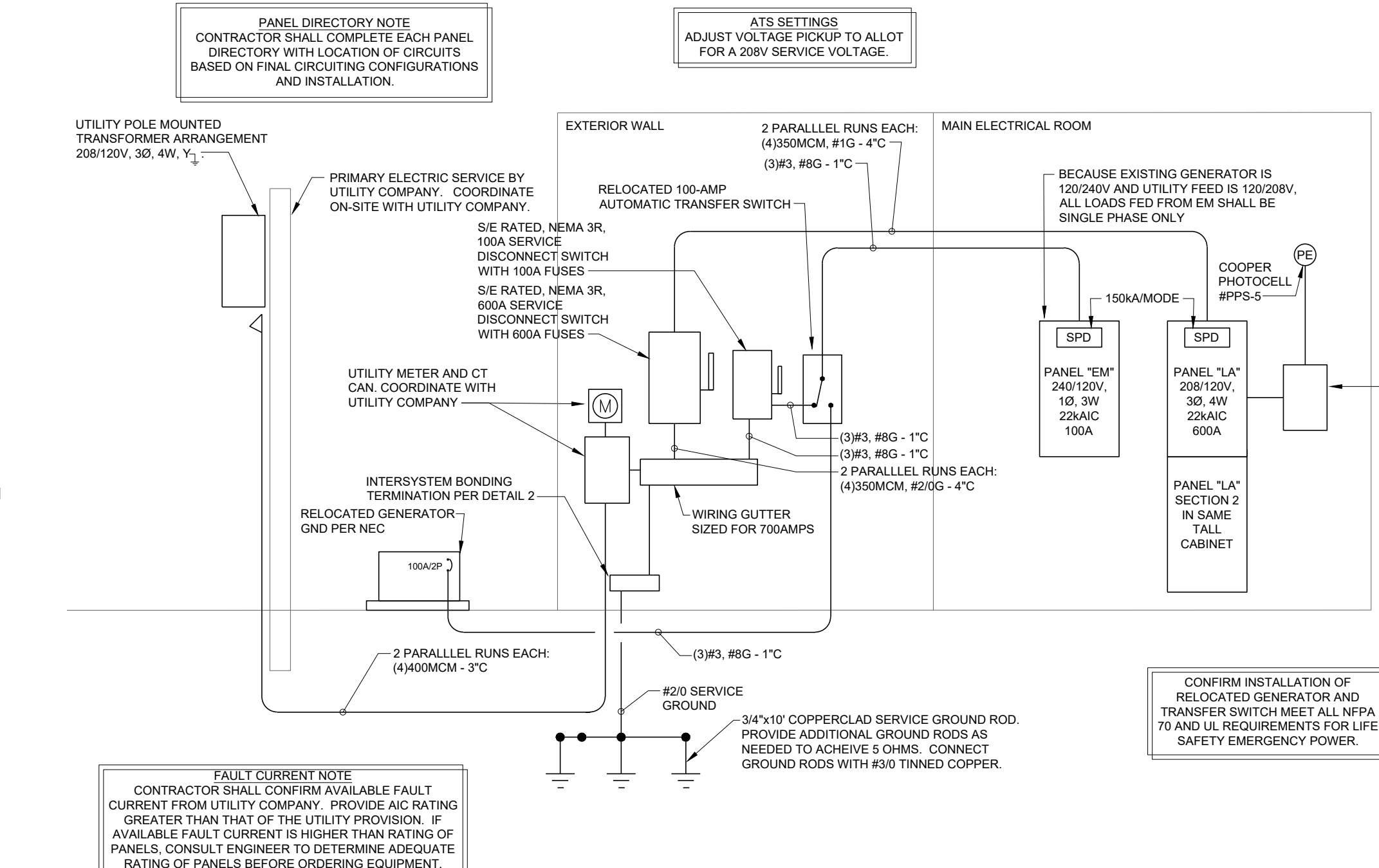


LIGHT POLE BASE DETAIL #1
NO SCALE

- ### ELECTRICAL SYSTEM GROUNDING AND BONDING
- THE GROUNDING ELECTRODE CONDUCTOR AT THE MAIN SERVICE EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH NEC 250.66 AND AS SHOWN ON THE ADJACENT SKETCH.
 - THE MAIN BONDING JUMPER AT THE MAIN SERVICE EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH 2017 NEC 250.28 (D)(1) THROUGH (D)(3).
 - BRANCH CIRCUITS MAY BE A COPPER OR CORROSION RESISTANT CONDUCTOR, RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, ELECTRICAL METALLIC TUBING, OR THE METALLIC SHEATH OR COMBINED METALLIC SHEATH AND GROUNDING CONDUCTORS OF TYPE MC CABLE.
 - A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IT SHALL BE SIZED IN ACCORDANCE WITH NEC 250.122.



2 ELECTRICAL SERVICE GROUND
NO SCALE



1 RISER DIAGRAM
NO SCALE

PROJECT NO. 190607
DATE: 10-26-20
DRAWN BY: JSH
REVISION: IT REVISIONS
DATE: 03-09-21

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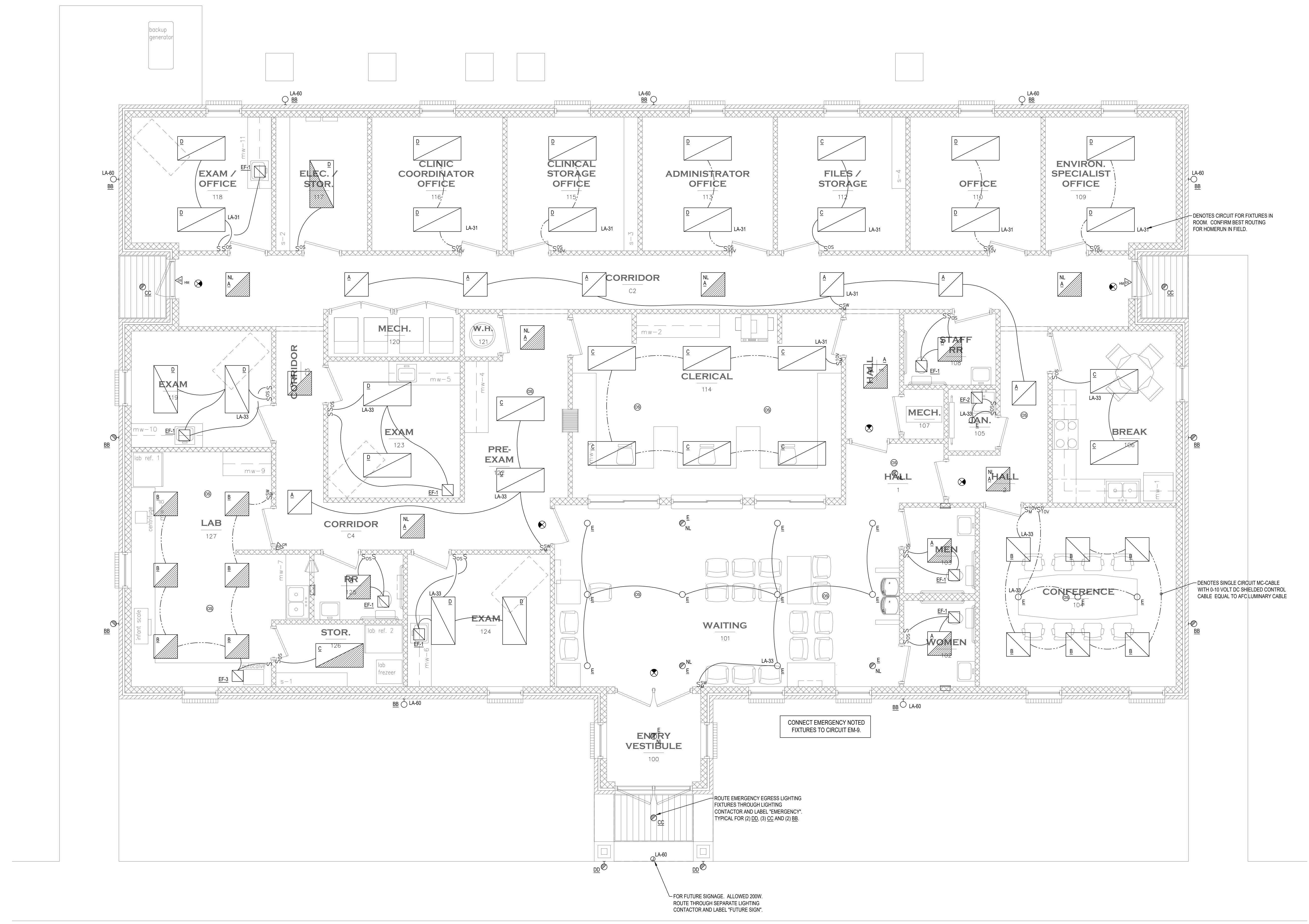
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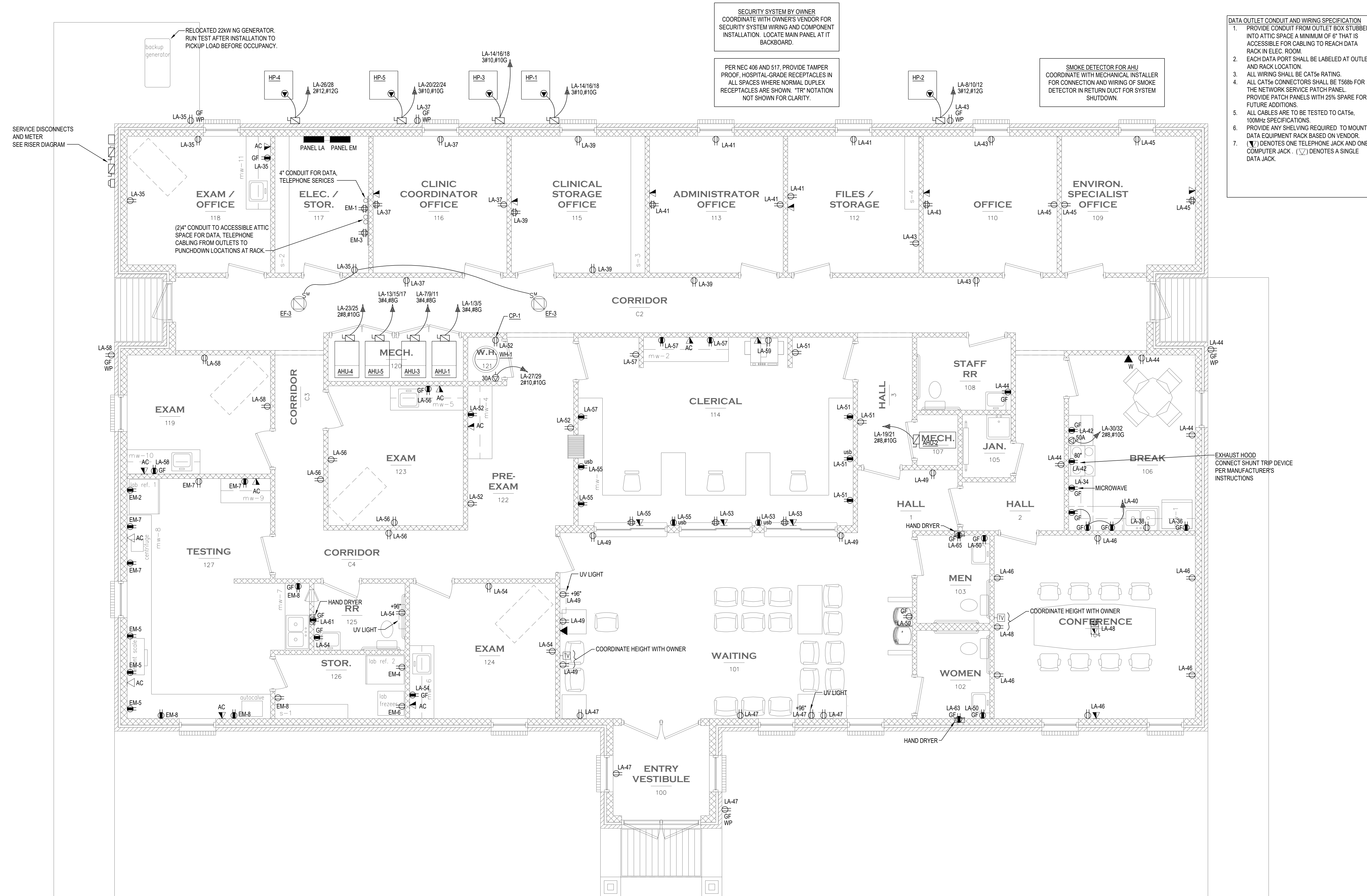
REGISTERED PROFESSIONAL ENGINEER
No. 12315
Joseph S. Hendren
10/26/20

FLOOR PLAN LIGHTING

E-0.1
SHEET NO.



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



FLOOR PLAN - POWER AND AUXILIARY SYSTEMS

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

PROJECT NO. 190607
DATE: 10-26-20
DRAWN BY: JSH

REVISIONS: IT REVISIONS
DATE: 03-09-21

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Joseph S. Hendren
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10/26/20

FLOOR PLAN
POWER AND
AUXILIARY SYSTEMS

E-2.0

SHEET NO.

- DATA OUTLET CONDUIT AND WIRING SPECIFICATION**
1. PROVIDE CONDUIT FROM OUTLET BOX STUBBED INTO ATTIC SPACE A MINIMUM OF 6" THAT IS ACCESSIBLE FOR CABLING TO REACH DATA RACK IN ELEC. ROOM.
 2. EACH DATA PORT SHALL BE LABELED AT OUTLET AND RACK LOCATION.
 3. ALL WIRING SHALL BE CAT5e RATING.
 4. ALL CAT5e CONNECTORS SHALL BE T568b FOR THE NETWORK SERVICE PATCH PANEL. PROVIDE PATCH PANELS WITH 25% SPARE FOR FUTURE ADDITIONS.
 5. ALL CABLES ARE TO BE TESTED TO CAT5e, 100MHz SPECIFICATIONS.
 6. PROVIDE ANY SHELVING REQUIRED TO MOUNT DATA EQUIPMENT RACK BASED ON VENDOR.
 7. (J) DENOTES ONE TELEPHONE JACK AND ONE COMPUTER JACK. (S) DENOTES A SINGLE DATA JACK.

SECURITY SYSTEM BY OWNER
COORDINATE WITH OWNER'S VENDOR FOR SECURITY SYSTEM WIRING AND COMPONENT INSTALLATION. LOCATE MAIN PANEL AT IT BACKBOARD.

PER NEC 406 AND 517, PROVIDE TAMPER PROOF, HOSPITAL-GRADE RECEPTACLES IN ALL SPACES WHERE NORMAL DUPLEX RECEPTACLES ARE SHOWN. "TR" NOTATION NOT SHOWN FOR CLARITY.

SMOKE DETECTOR FOR AHU
COORDINATE WITH MECHANICAL INSTALLER FOR CONNECTION AND WIRING OF SMOKE DETECTOR IN RETURN DUCT FOR SYSTEM SHUTDOWN.

RELOCATED 22KW NG GENERATOR.
RUN TEST AFTER INSTALLATION TO PICKUP LOAD BEFORE OCCUPANCY.

SERVICE DISCONNECTS AND METER
SEE RISER DIAGRAM

EXHAUST HOOD
CONNECT SHUNT TRIP DEVICE
PER MANUFACTURER'S
INSTRUCTIONS

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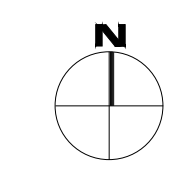
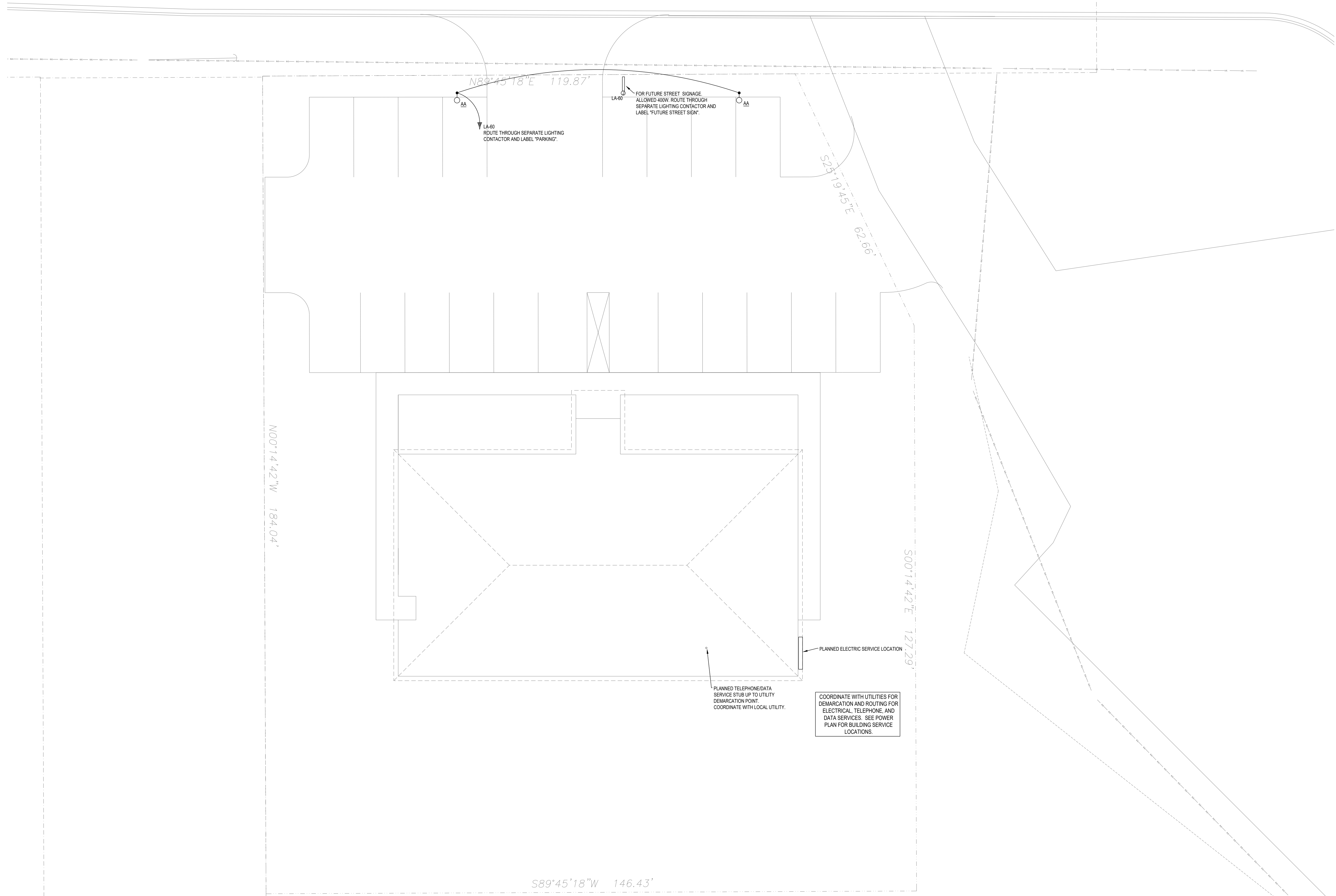
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 10/26/20

SITE PLAN
 ELECTRICAL

E-3.0
 SHEET NO.



SITE PLAN - ELECTRICAL

SCALE: 1" = 10'-0"