

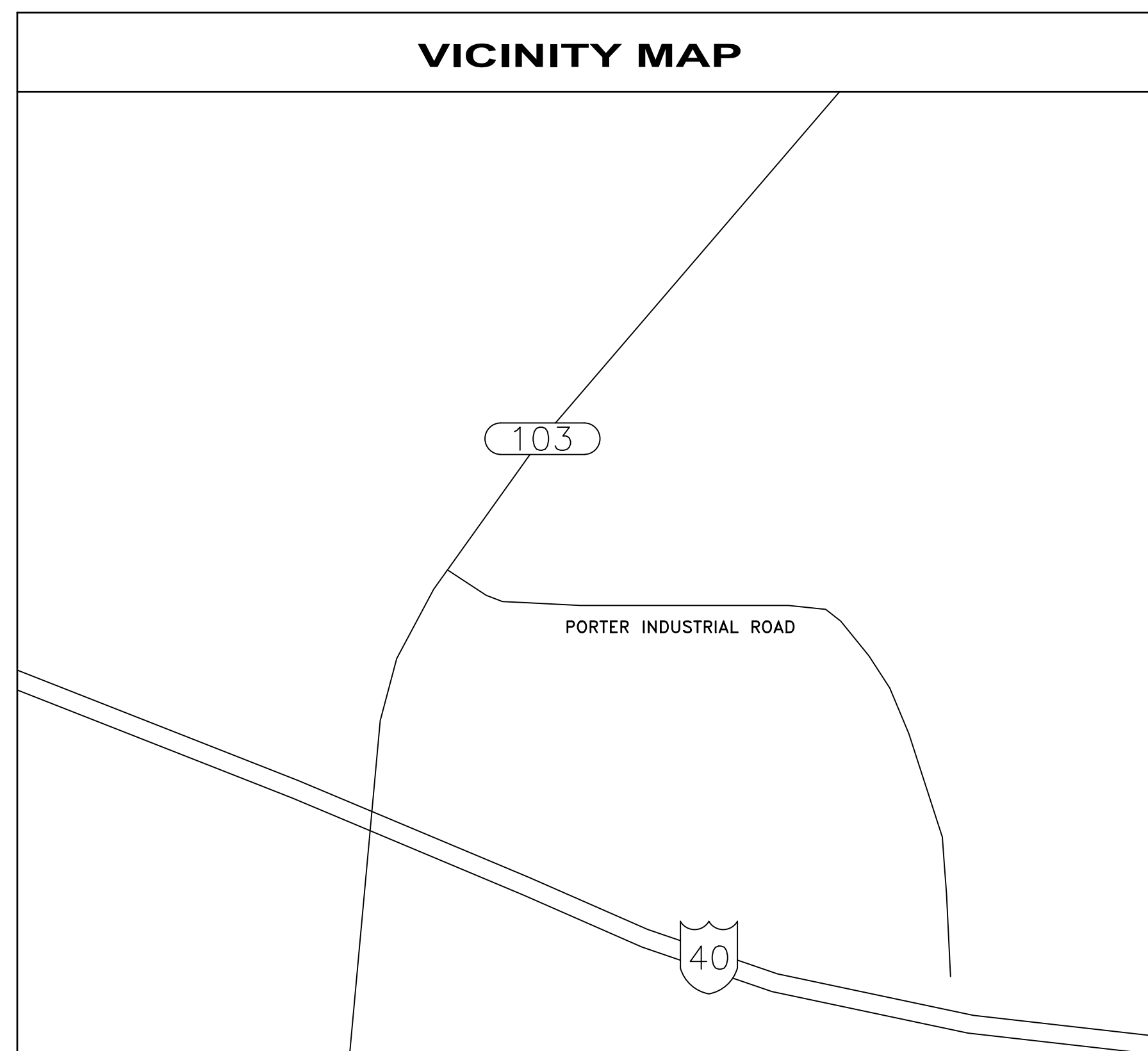
# JOHNSON COUNTY ARKANSAS COURT ADDITION & RENOVATION

301 PORTER INDUSTRIAL ROAD  
CLARKSVILLE, ARKANSAS 72830

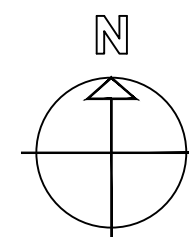
PROJECT NUMBER 24-009A

**CONSTRUCTION  
DOCUMENTS**

**JANUARY 21, 2025**

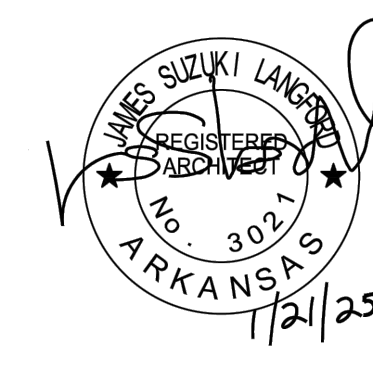


FOR REFERENCE ONLY - NOT TO SCALE



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ARCHITECT



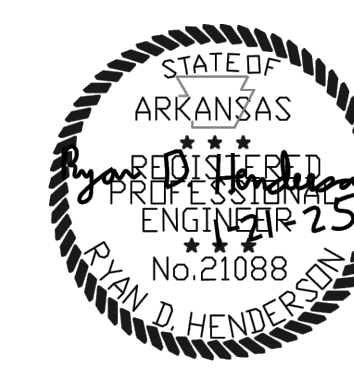
CIVIL



STRUCTURAL



HVAC



PLUMBING



ELECTRICAL

**Spirit Architecture**  
Architect

SpiritArchitecture Group, LLC  
108 E Mulberry Street  
Collierville, Tennessee 38017

Phone (901) 457-7688  
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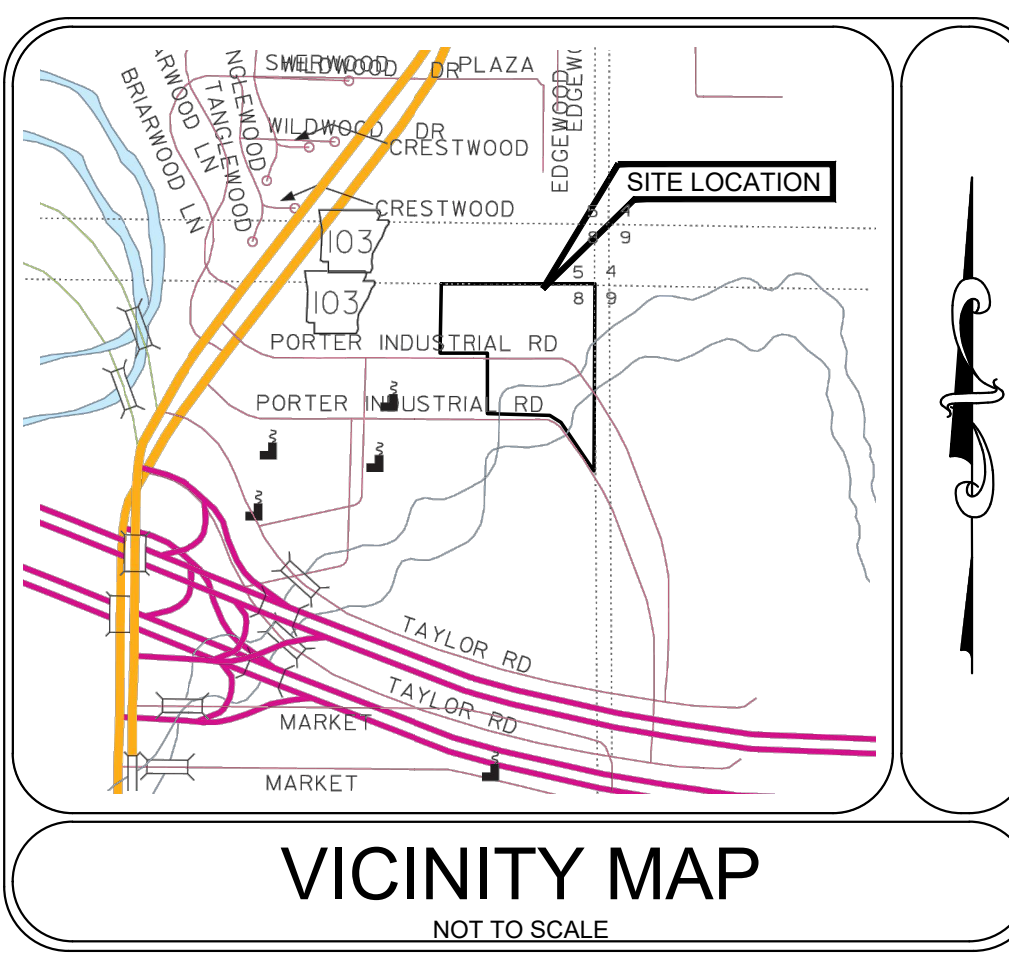
**SB**  
SOUTHBUILD  
Consultant

**Smith-Doyle Contractors, Inc.**  
Construction Management

1635 Wynne Road  
Cordova, Tennessee 38016

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Fax (901) 213-3994





**LEGEND**

PP	Power Pole
LP	Light Post
OHE	Overhead Electric Cable
EM	Electric Meter
EM	Electric Meter
T	Telephone Pedestal
TR	Telephone Pedestal
W	Water Meter
WM	Water Meter
WV	Water Valve
G	Gas Meter
GM	Gas Meter
MI	Manhole
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SS	Sanitary Sewer (Includes Size/Type when known)
FR	Fire Hydrant
AC	Air Conditioner
DI	Drop Inlet
BSL	Building Setback Line
---	Property Boundary Line
---	Existing Fence

**SURVEY LEGAL DESCRIPTION**  
 Part of the NE1/4 of the NE1/4 of Sec. 8, T-9-N, R-23-W, Clarksville, Johnson County, Arkansas.

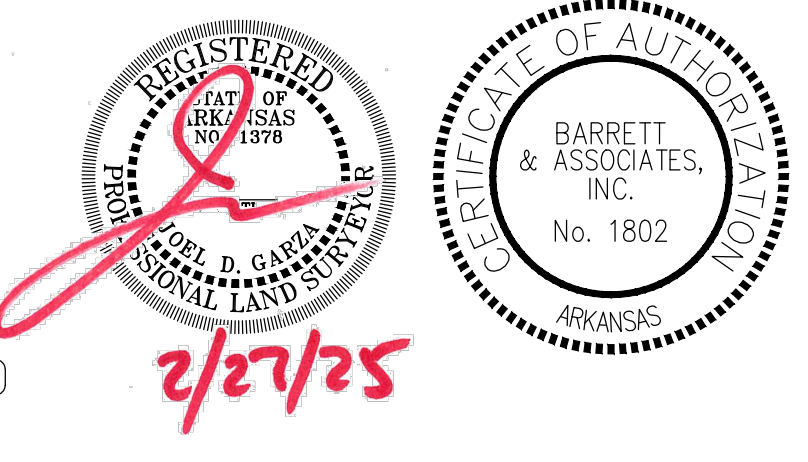
**SURVEYOR'S CERTIFICATION**  
 To: Johnson County, and Spirit Architecture.  
 This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and ACSM and includes items 1, 2, 3, 5, 6(a), 6(b), 7(a), 7(b)(1), 8, 9, 11(a), 11(b), and 16 of Table A thereof. The last field work and site visit was completed on January 27, 2025.

Date: January 27, 2025  
 Signed: J. David [Signature], PLS 1378 Arkansas

**ALTANSPPS Table A**

- Some monuments were found. This topographic survey covers a portion of the property owned by Johnson County.
- The address is 301 Porter Industrial Road, Clarksville AR 72830.
- A portion of the described property is located in a designated 100 year Flood Plain as per FEMA Map No. 0571C0355D, dated November 26, 2010.
- Contours are shown on the plat.
- 6(a). The current zoning is 1-1 (Light Industrial District).
- 6(b). All required setbacks are indicated by zoning note on plat.
- 7(a). The buildings on the property are shown as of the date of this survey.
- 7(b)(1). The buildings are shown on the property.
- All substantial features are shown on the plat.
- All known parking spaces are shown on this plat.
- 11(a)(b). All known utilities from One-Call markings, old construction plans or maps are shown on the plat.
- There is no observed evidence of earth moving work or new construction.

Coding Date: 500-09N-23W-9-08-110-36-1378  
 Job No: B&A 24-039



PREPARED BY:  
**BARRETT & ASSOCIATES**  
 PROFESSIONAL ENGINEERS  
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NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
 COURT ADDITION & RENOVATION**  
 301 PORTER INDUSTRIAL ROAD  
 CLARKSVILLE, ARKANSAS 72830

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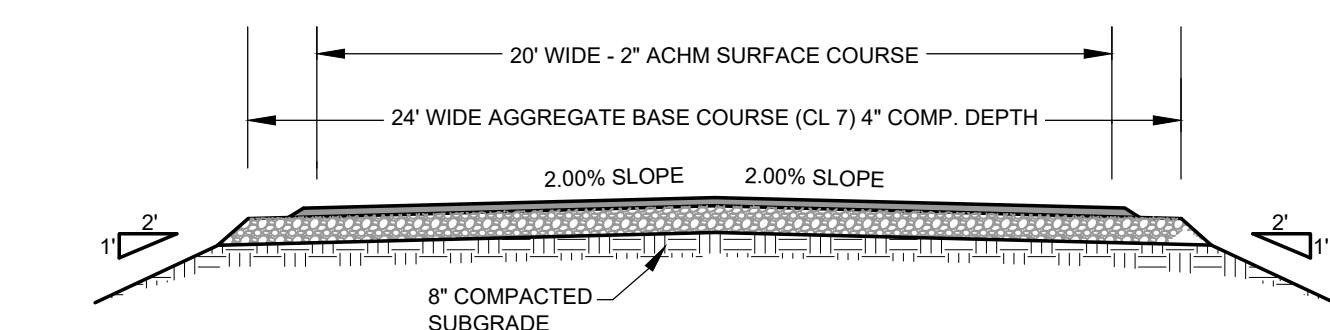
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**TOPOGRAPHIC SURVEY**

DATE  
**02/27/25**

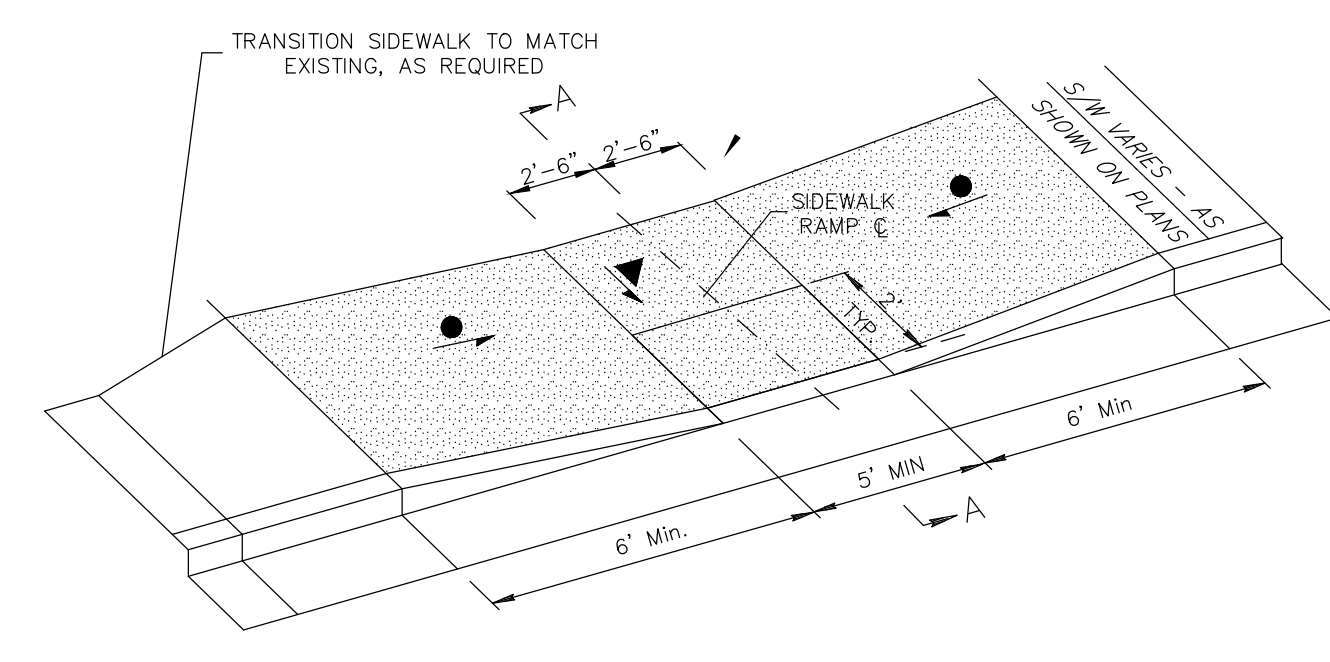
PROJECT NO.  
**24-009A**

SHEET NO.  
**C 0.1**

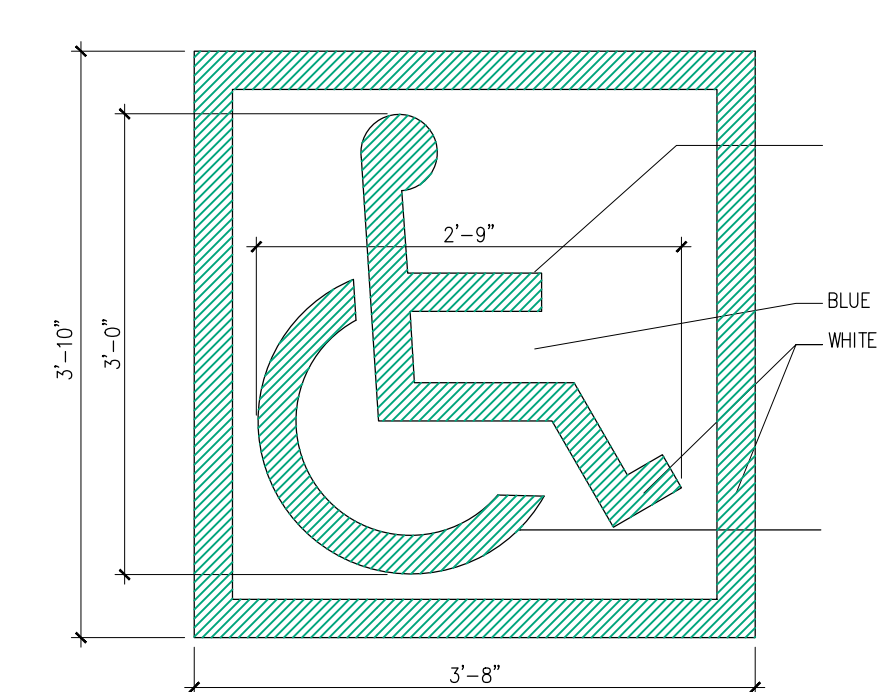




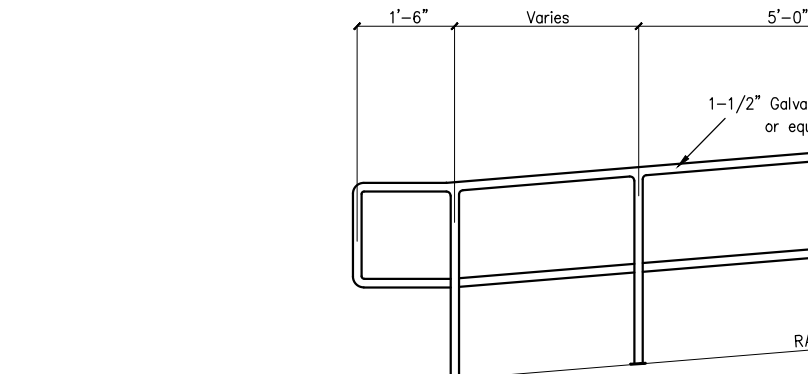
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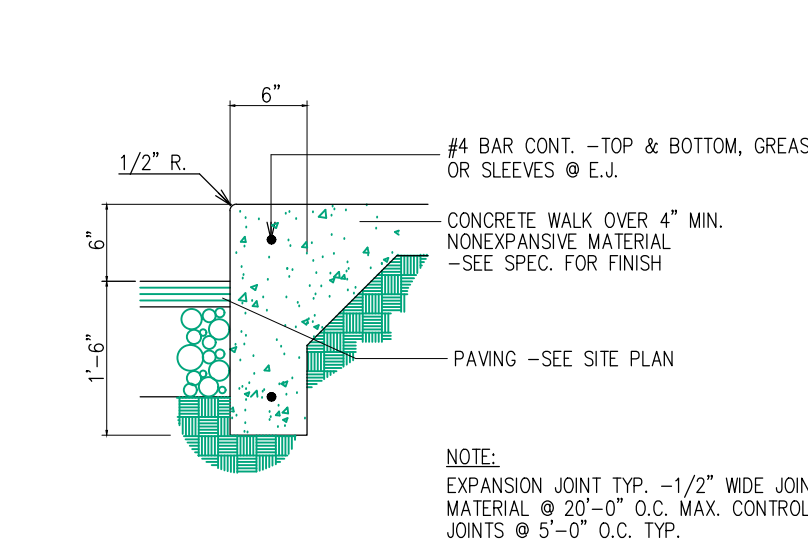
RAMP DETAIL - TYPE 7  
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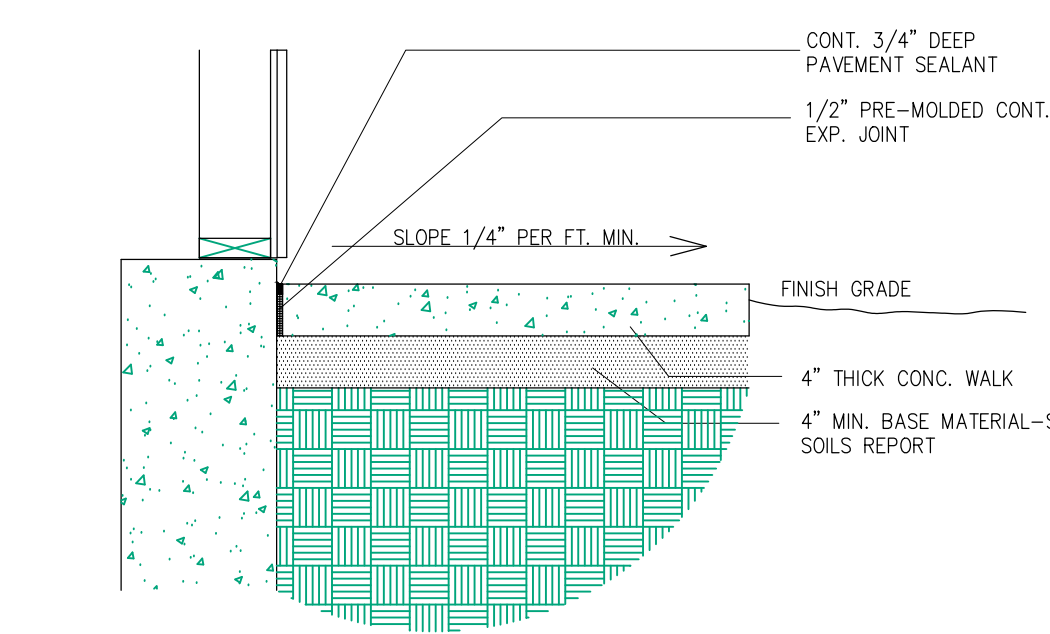
HC SYMBOL DETAIL  
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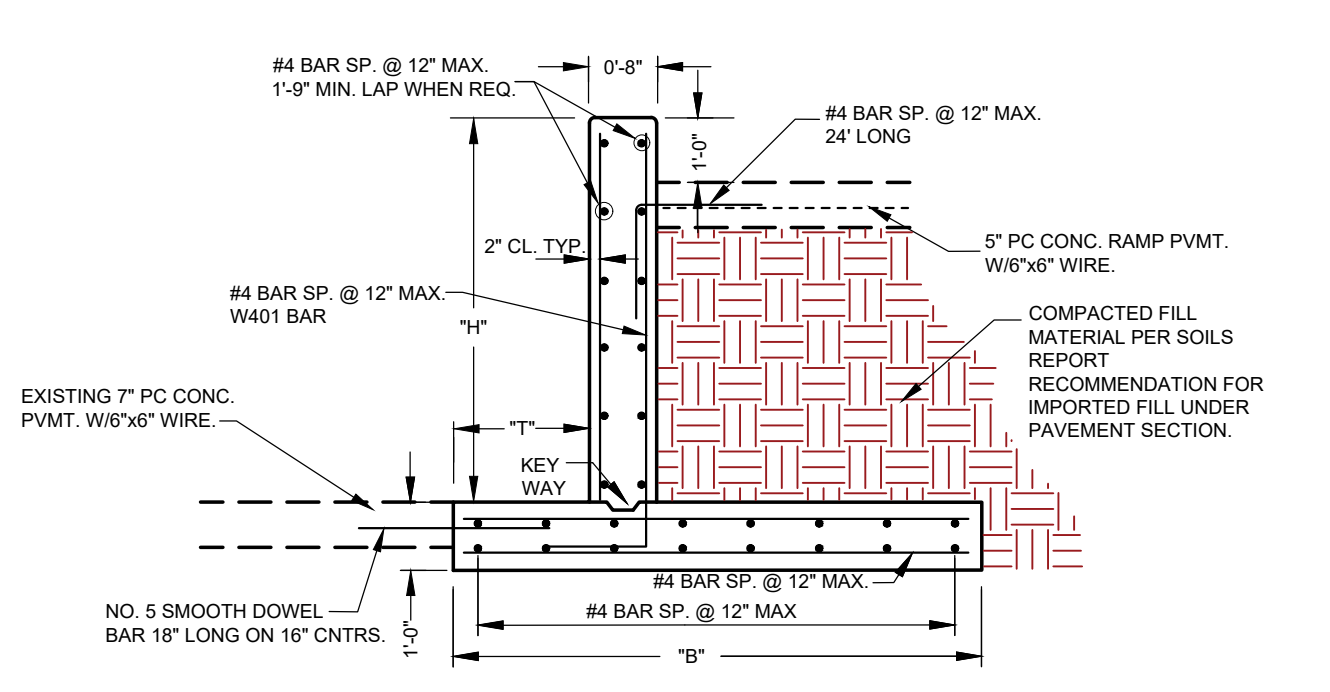
TYPICAL RAMP RAIL DETAIL  
SCALE: NTS



CONC. WALK & CURB DETAIL  
SCALE: NTS



CONC. WALK AT WALL DETAIL  
SCALE: NTS



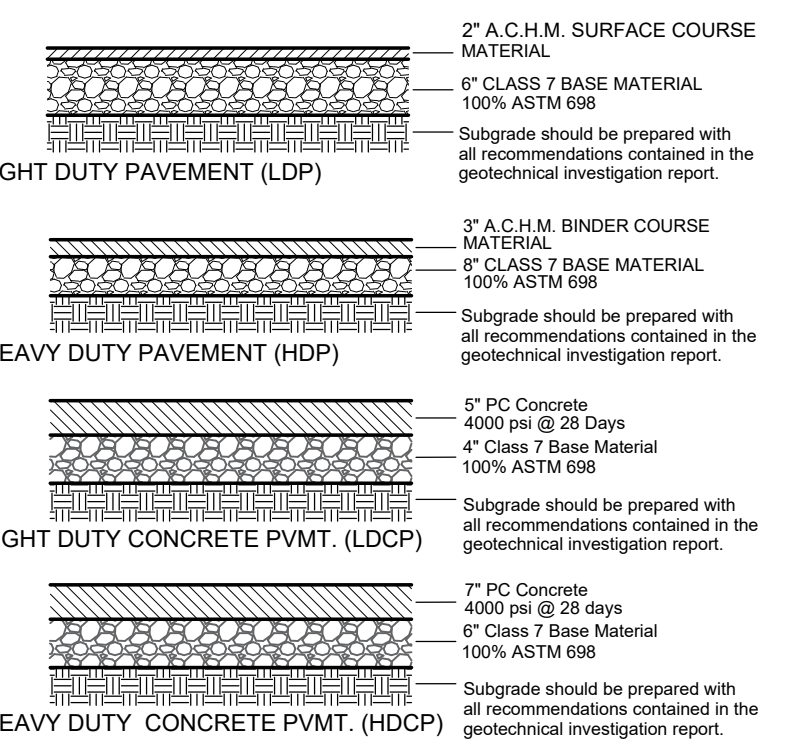
SIDEWALK RAMP RETAINING WALL DETAIL  
SCALE: Not to Scale

TABLE OF RETAINING WALL VARIABLES (SLOPED BACKFILL (1V:2H MAX.))

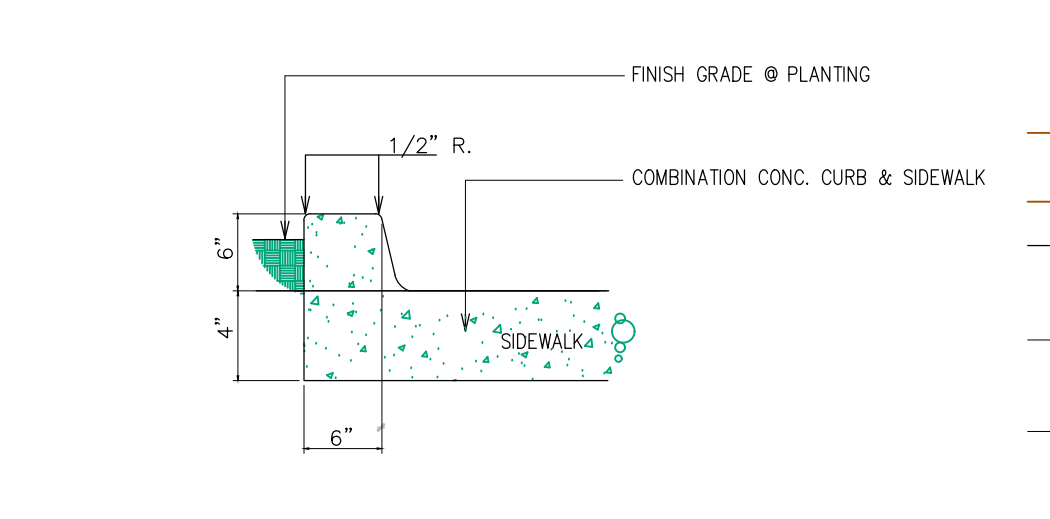
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1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"

TABLE OF RETAINING WALL VARIABLES (LEVEL BACKFILL)

W	H	W	H	W	H
1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"



PARKING LOT PAVEMENT DETAIL  
SCALE: NTS



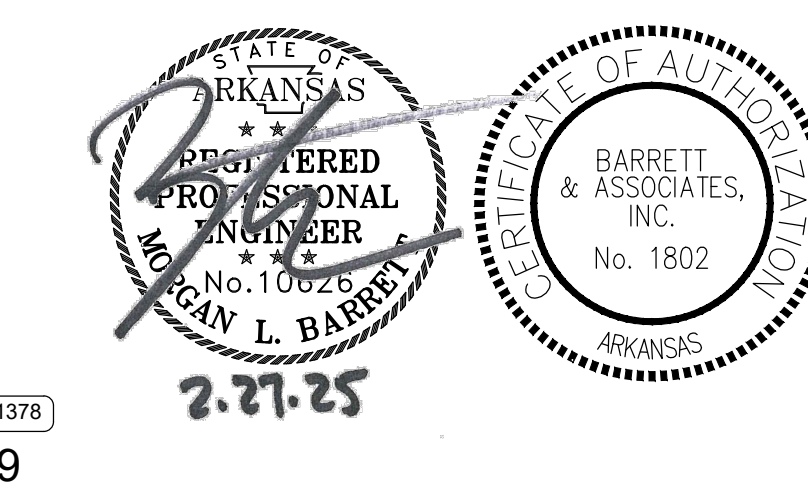
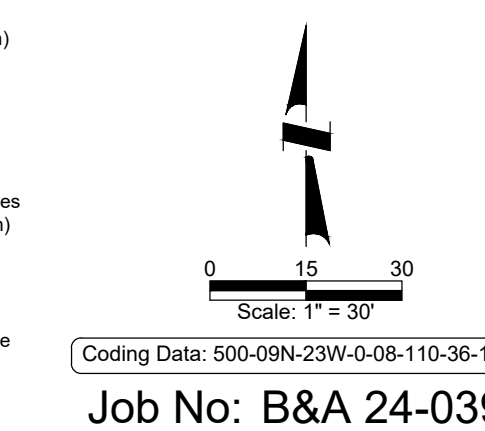
CONC. SIDEWALK CURB DETAIL  
SCALE: NTS

LEGEND

PP	Power Pole
LP	Light Pole
OHE	Overhead Electric Cable
CB	Cable Box
EM	Electric Meters
TR	Telephone Pedestal
W	Water Line (includes Size Type when known)
WM	Water Meter
WV	Water Valve
G	Gas Line
GM	Gas Meter
MH	Manhole
CO	Cleanout
SS	Sanitary Sewer (includes Size Type when known)
FH	Fire Hydrant
AC	Air Conditioner
DI	Drop Inlet
BSL	Building Setback Line
x	Property Boundary Line
x	Existing Fence

- GENERAL NOTES:
- Prior to the installation of any drainage structure the contractor shall excavate, verify, and calculate all crossings and inform the engineer of any conflicts or discrepancies prior to proceeding with the construction. The engineer will be held harmless in the event the engineer is not notified of any conflicts.
  - The contractor shall control and prevent off-site tracking of construction material or sediment to adjacent property owners or public rights-of-ways.
  - All Site Construction that is not otherwise specified in the project specification manual shall meet the ArDOT materials and methods of construction latest manual and all materials, fittings, construction and installation shall be in accordance with Clarksville Connect Utility Technical Specifications for Water and Sewer Line Construction, latest revision dated June 2014.
  - A pre-construction conference is advised with the following personnel:
    - Engineer of Record (or appropriate design professional)
    - Inspector for Engineer of Record
    - Contractor(s)
    - Superintendent who will be on-site during all phases of construction.
    - All subcontractors responsible for installation of public infrastructure.
  - Contractor shall notify Engineer 48 hours prior to starting construction.

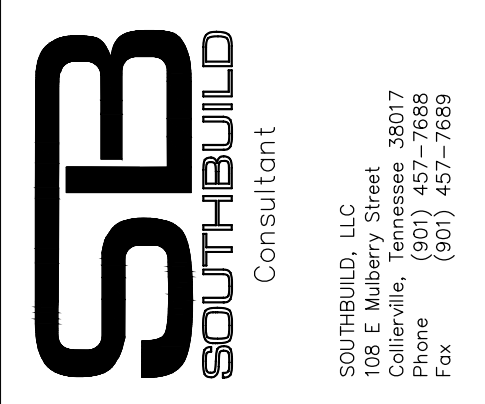
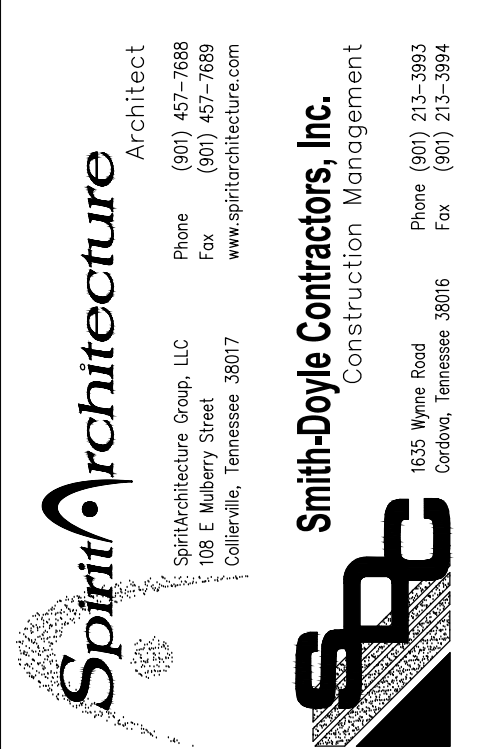
- CONSTRUCTION NOTES:
- Contractor shall call Arkansas One-Call and have existing utilities located prior to starting excavation or removal of items.
  - Contractor shall notify Engineer 48 hours prior to starting construction.
  - The contractor is required to notify, no less than twenty-four (24) hours prior to start of construction, the City of Clarksville Connect Sewer and Water departments Capital Project Coordinator.
  - Emergency vehicles must have access to the property or surrounding area at all times during construction.
  - The contractor is responsible for the payment of all city, county, state, and government review, permit, and/or inspection fees required to complete the work as outlined on the plans.
  - All pipe ends that are exposed shall be plugged at the end of each day to prevent infiltration from ground water, animals, dirt, and any foreign material.



PREPARED BY:  
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 PROFESSIONAL ENGINEERS  
 LAND SURVEYORS  
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 WWW.BARRETTANDASSOC.COM  
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NO.	DATE	REVISION

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 COURT ADDITION & RENOVATION**  
 301 PORTER INDUSTRIAL ROAD  
 CLARKSVILLE, ARKANSAS 72830



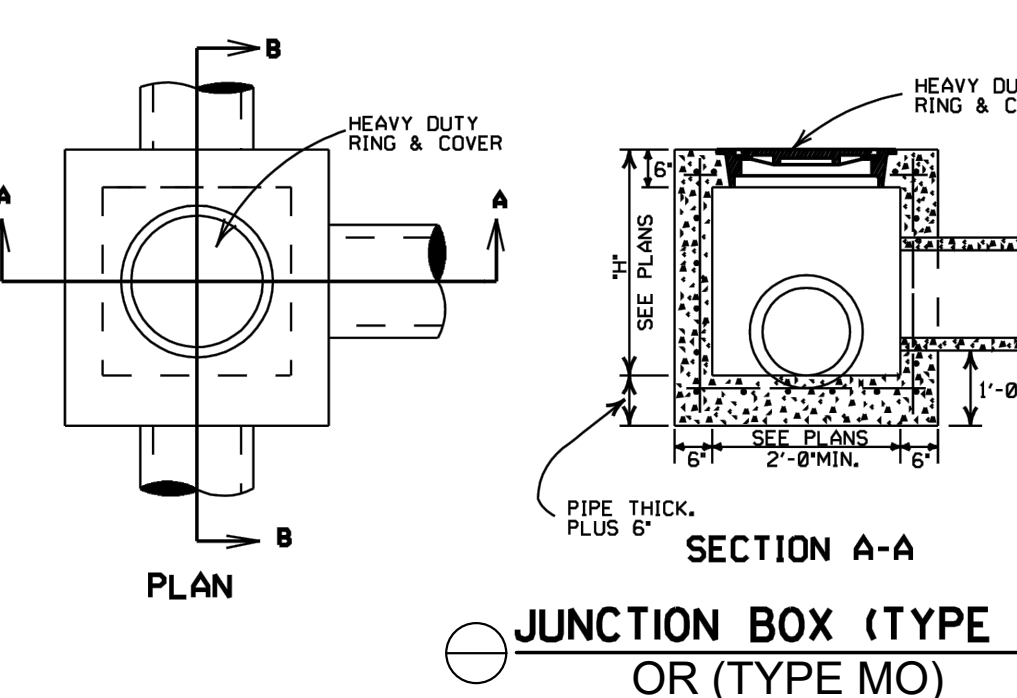
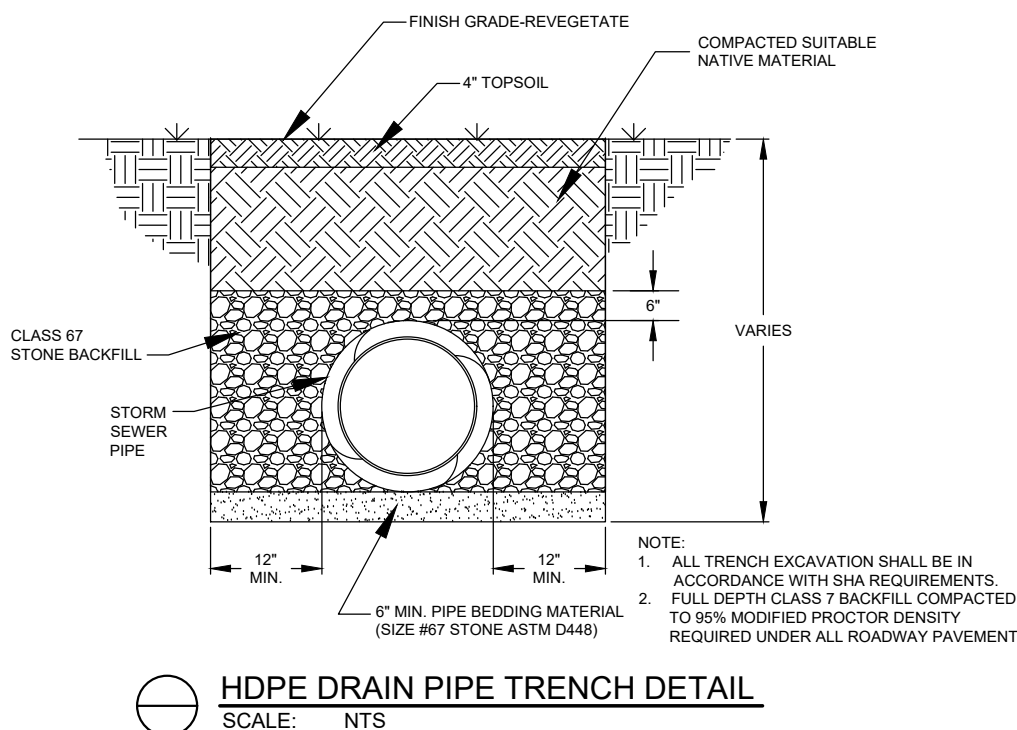
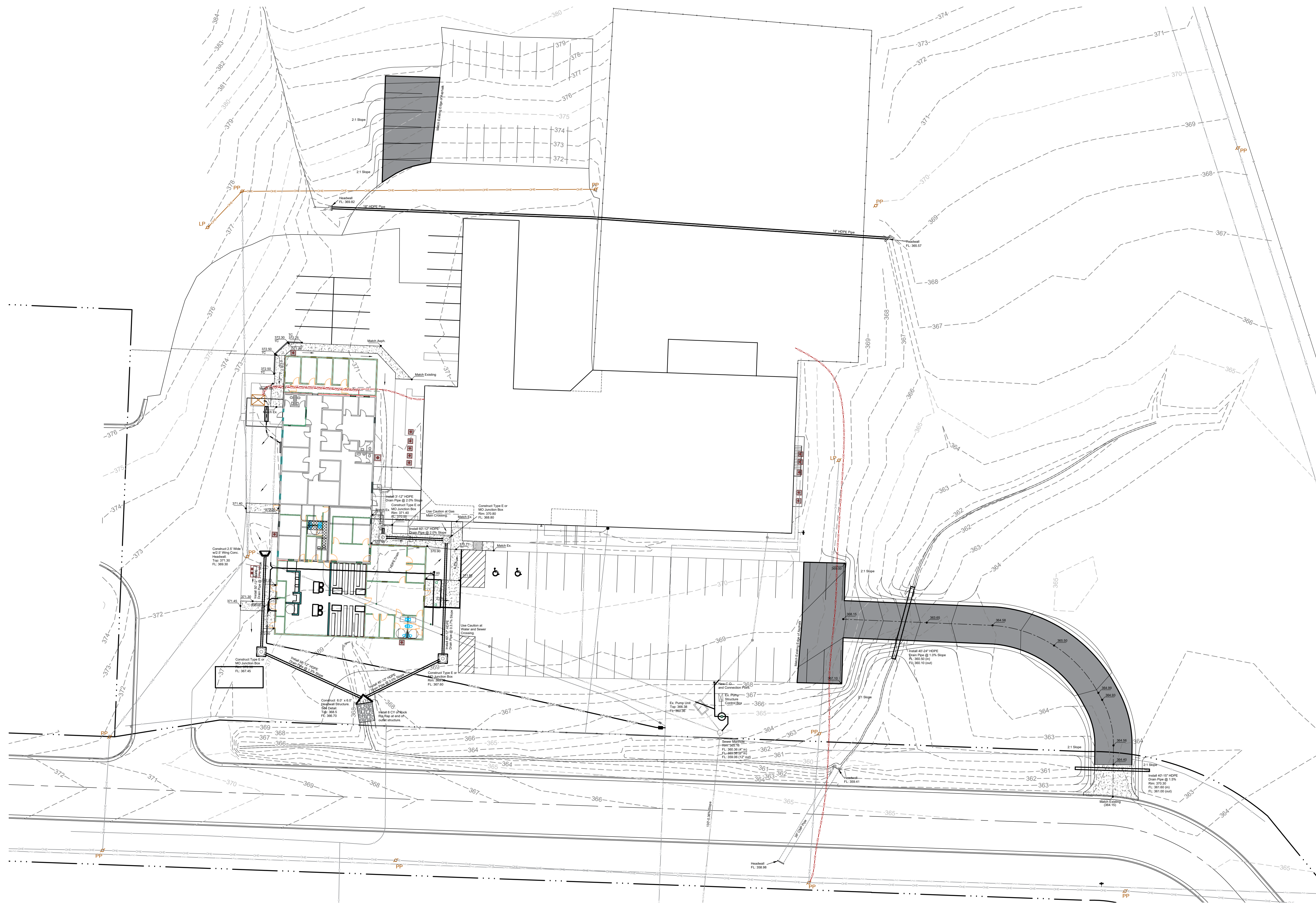
SHEET TITLE  
**REMOVAL-SITE PLAN**

DATE  
**02/27/25**

PROJECT NO.  
**24-009A**

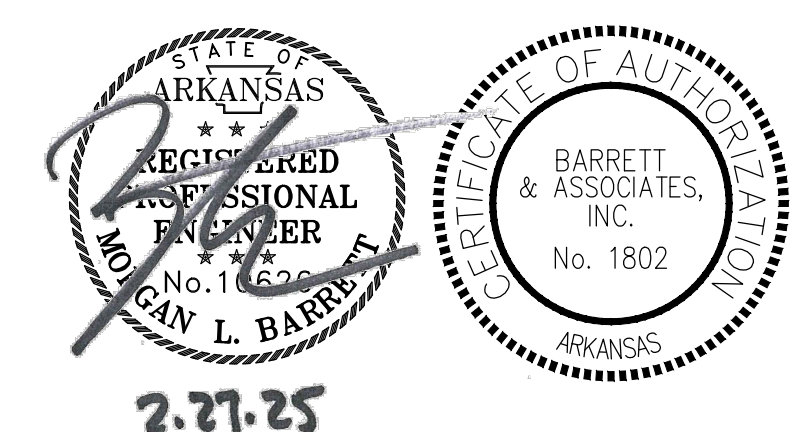
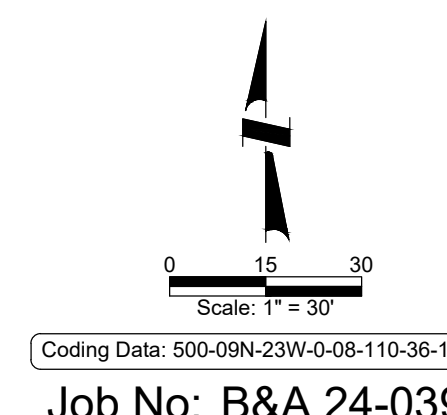
SHEET NO.  
**C 1.0**





LEGEND

PP	Power Pole
LP	Light Pole
OHE	Overhead Electric Cable
CE	Cable Tray
EM	Electric Meters
F	Fiber Optic Cable
TR	Telephone Pedestal
W	Water Line (includes Size/Type when known)
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FH	Fire Hydrant
AC	Air Conditioner
DI	Drop Inlet
BSL	Building Setback Line
---	Property Boundary Line
- - -	Existing Fence



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NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS**  
**COURT ADDITION & RENOVATION**  
 301 PORTER INDUSTRIAL ROAD  
 CLARKSVILLE, ARKANSAS 72830

**Spirit Architecture**  
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 308 N. Main Street, LLC  
 308 E. Mulberry Street  
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 Fax: (601) 407-7899  
 www.spiritarchitecture.com

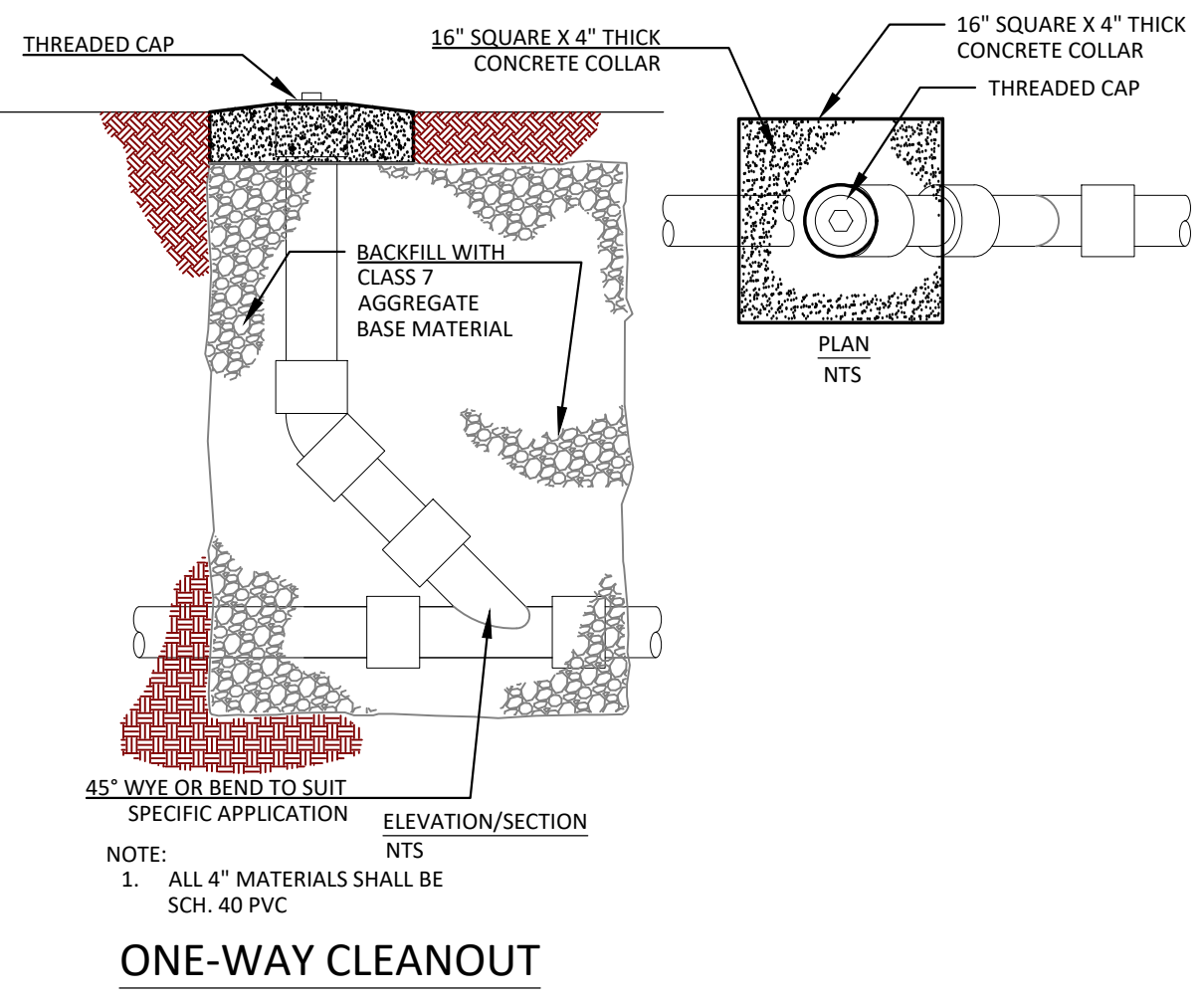
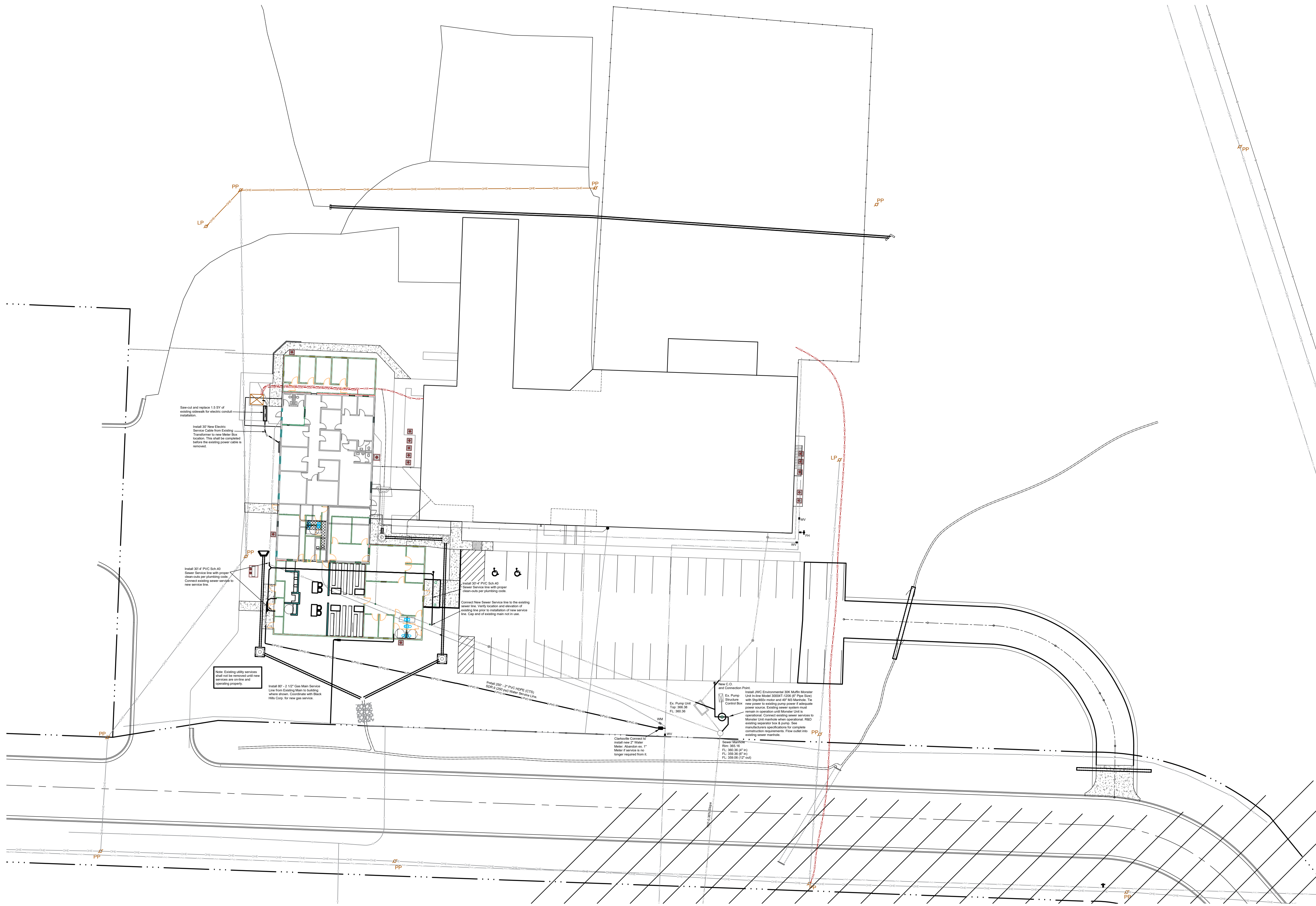
**Smith-Doyle Contractors, Inc.**  
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 603 W. Main Blvd.  
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SHEET TITLE  
**GRADING PLAN**  
 DATE  
**02/27/25**  
 PROJECT NO.  
**24-009A**  
 SHEET NO.  
**C 2.0**

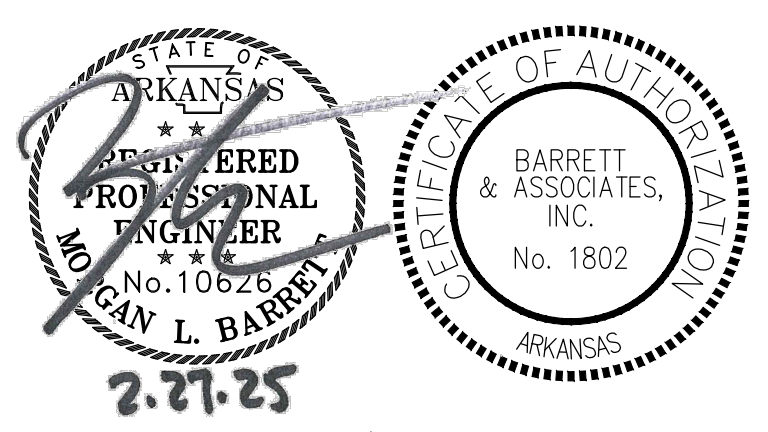
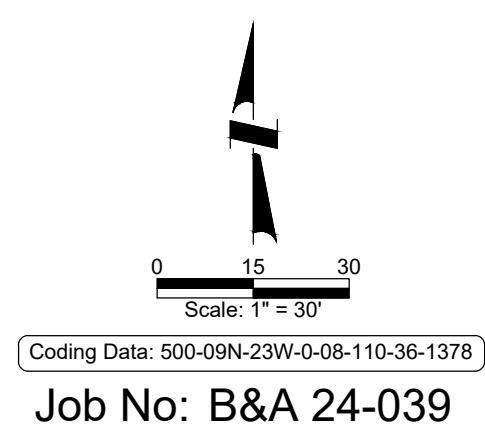
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 PLOT DEVICE: HP DesignJet T1300 Series  
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**LEGEND**

PP	Power Pole
LP	Light Post
OHE	Overhead Electric Cable
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AC	Air Conditioner
DI	Drop Inlet
BSL	Building Setback Line
PL	Property Boundary Line
X	Existing Fence



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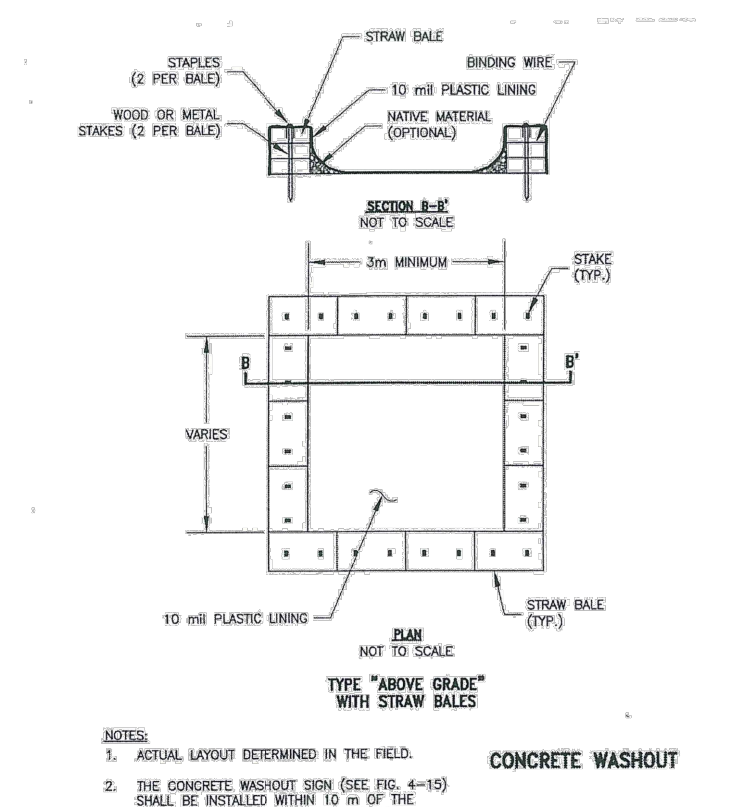
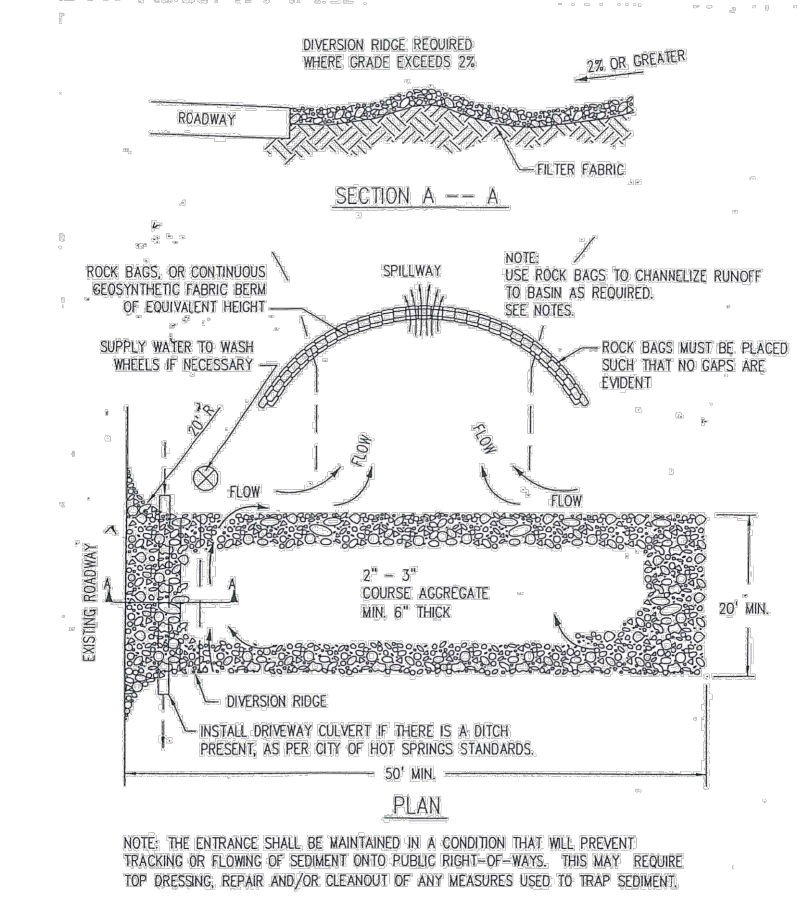
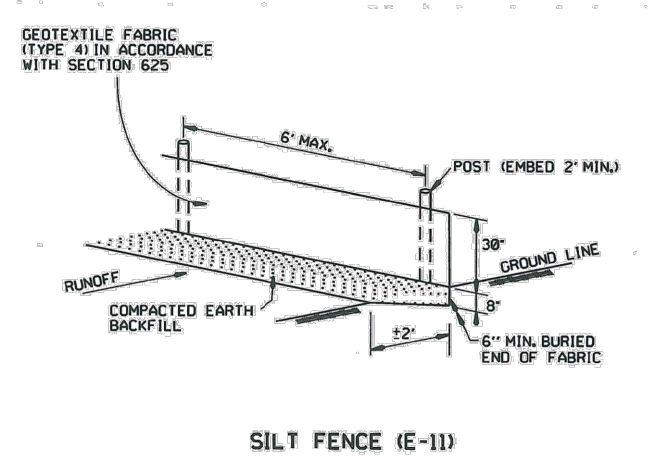
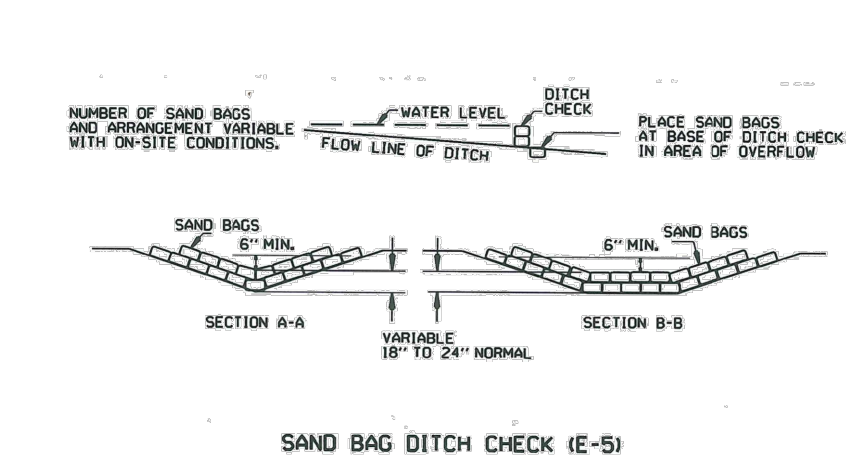
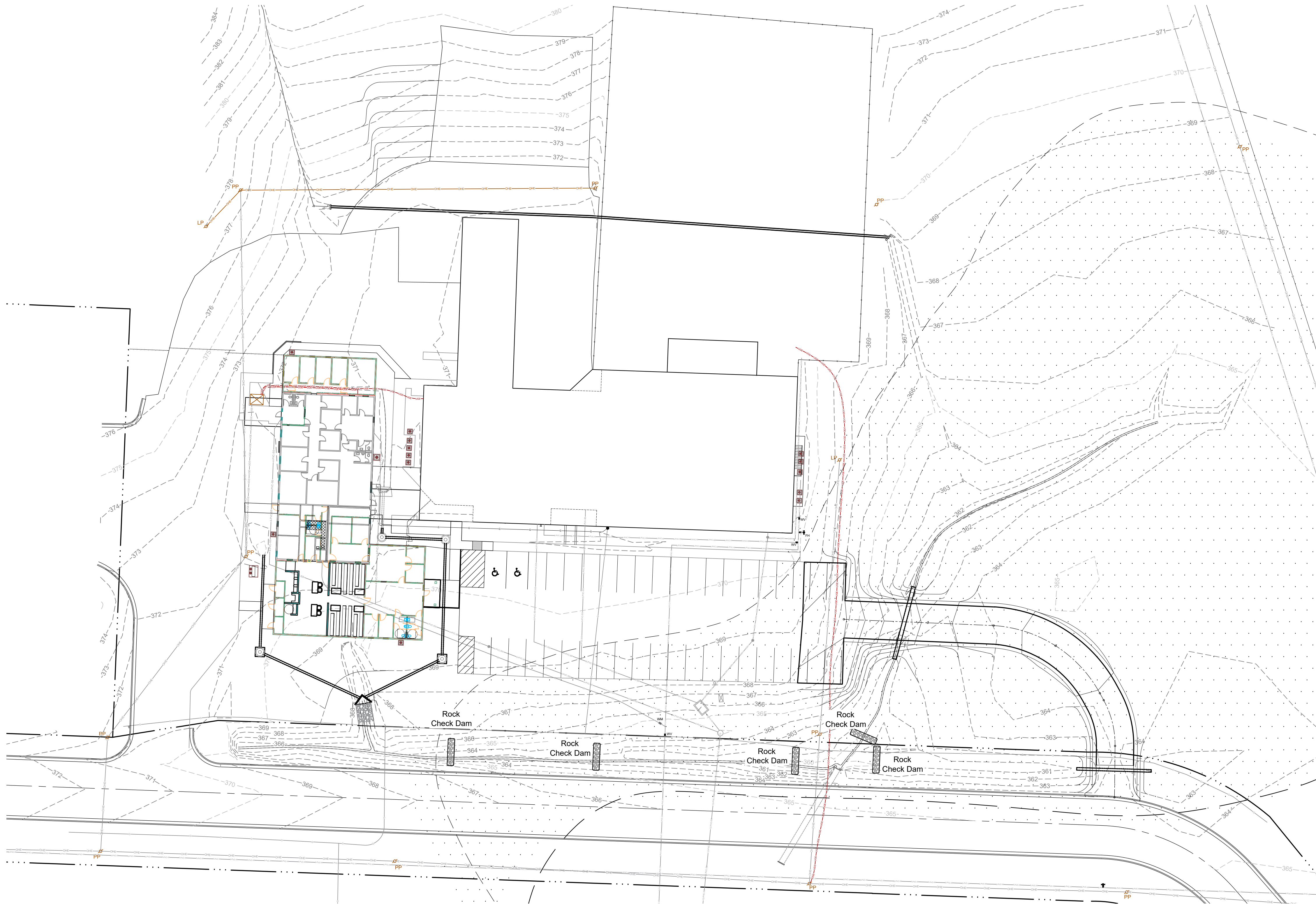
**Spirit Architecture**  
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SHEET TITLE	
UTILITY PLAN	
DATE	02/27/25
PROJECT NO.	24-009A
SHEET NO.	C 3.0





STABILIZED CONSTRUCTION ENTRANCE DETAIL

CONCRETE WASHOUT

LEGEND

PP	Power Pole
LP	Light Post
OHE	Overhead Electric Cable
CB	Cable Box
EM	Electric Meter
FOC	Fiber Optic Cable
TR	Telephone Pedestal
W	Water Line (includes Size/Type when known)
WM	Water Meter
WV	Water Valve
G	Gas Line
GM	Gas Meter
MH	Manhole
CD	Cleanout
SS	Sanitary Sewer (includes Size/Type when known)
FH	Fire Hydrant
AC	Air Conditioner
CH	Chimney
BSL	Building Setback Line
---	Property Boundary Line
- - -	Existing Fence

North Arrow  
Scale: 1" = 30'  
Coding Data: 500-09N-23W-0-08-110-36-1376  
Job No: B&A 24-039

STATE OF ARKANSAS  
JAMES R. RED  
PROFESSIONAL  
ENGINEER  
No. 10626  
MOYAN L. BARRETT  
2-21-25

STATE OF ARKANSAS  
BARRETT & ASSOCIATES, INC.  
No. 1802  
2-21-25

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**SB SOUTH BUILD**  
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Clarksville, Tennessee 37037  
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Fax: (615) 472-7889

SHEET TITLE  
**SWPPP PLAN**

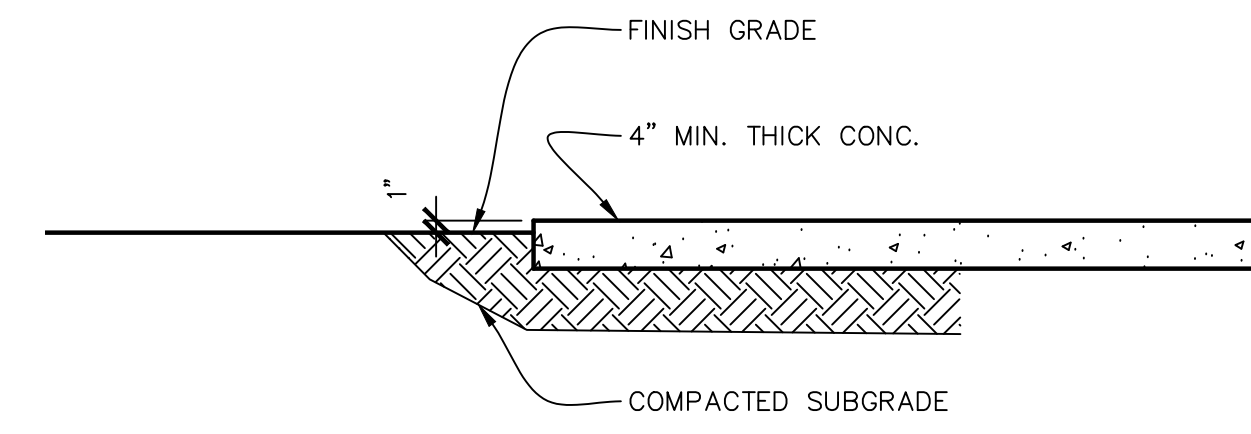
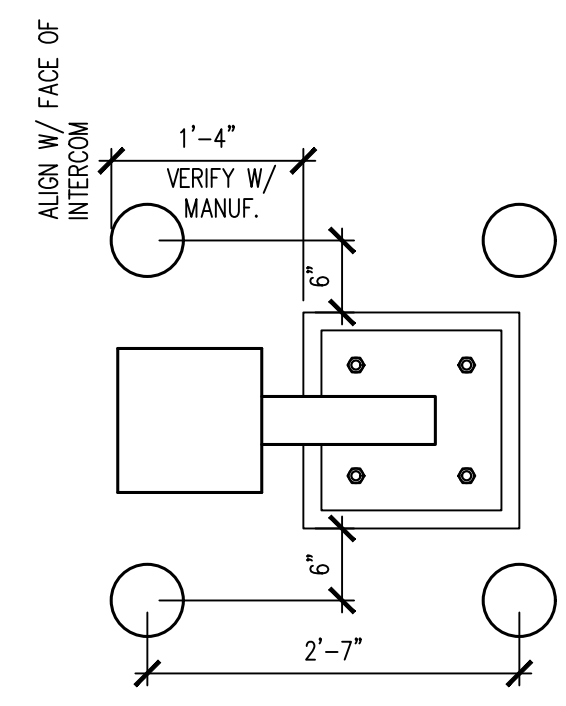
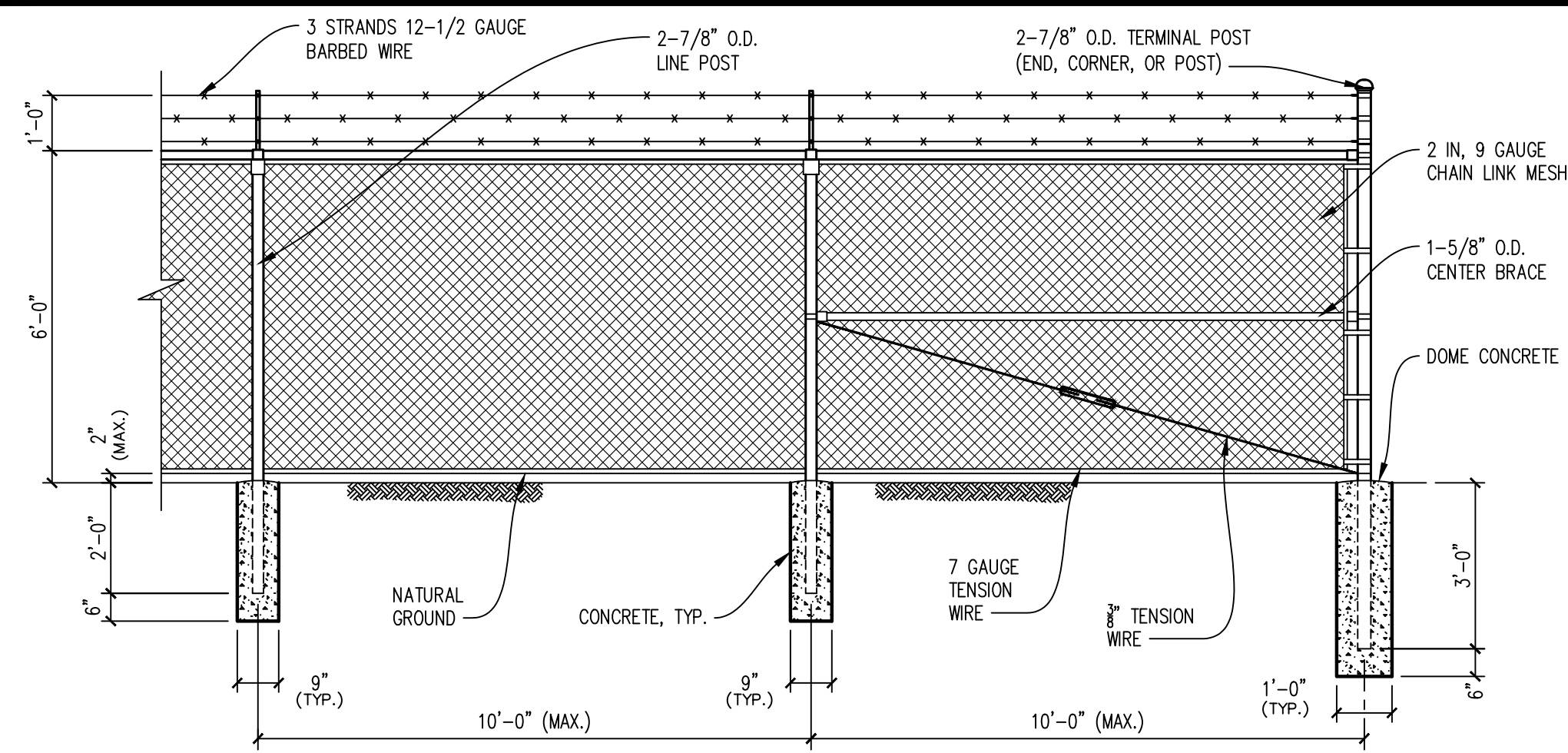
DATE  
**02/27/25**

PROJECT NO.  
**24-009A**

SHEET NO.  
**C 4.0**

6 of 35



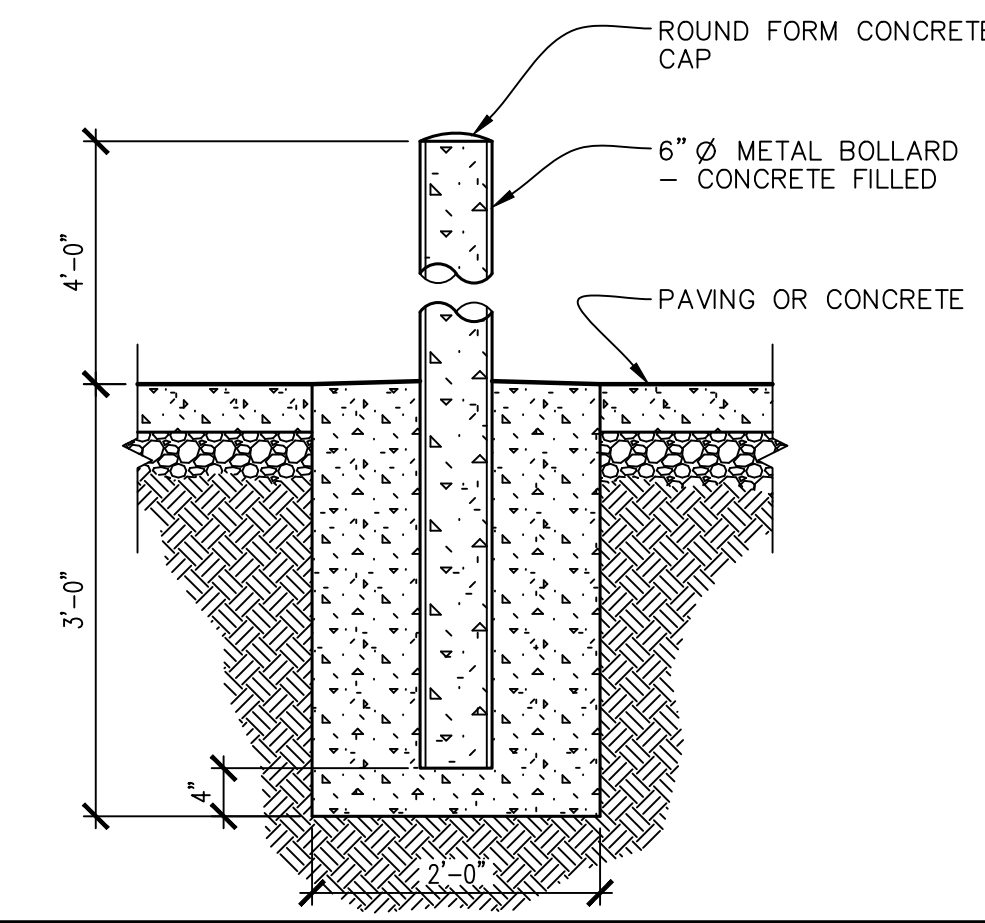
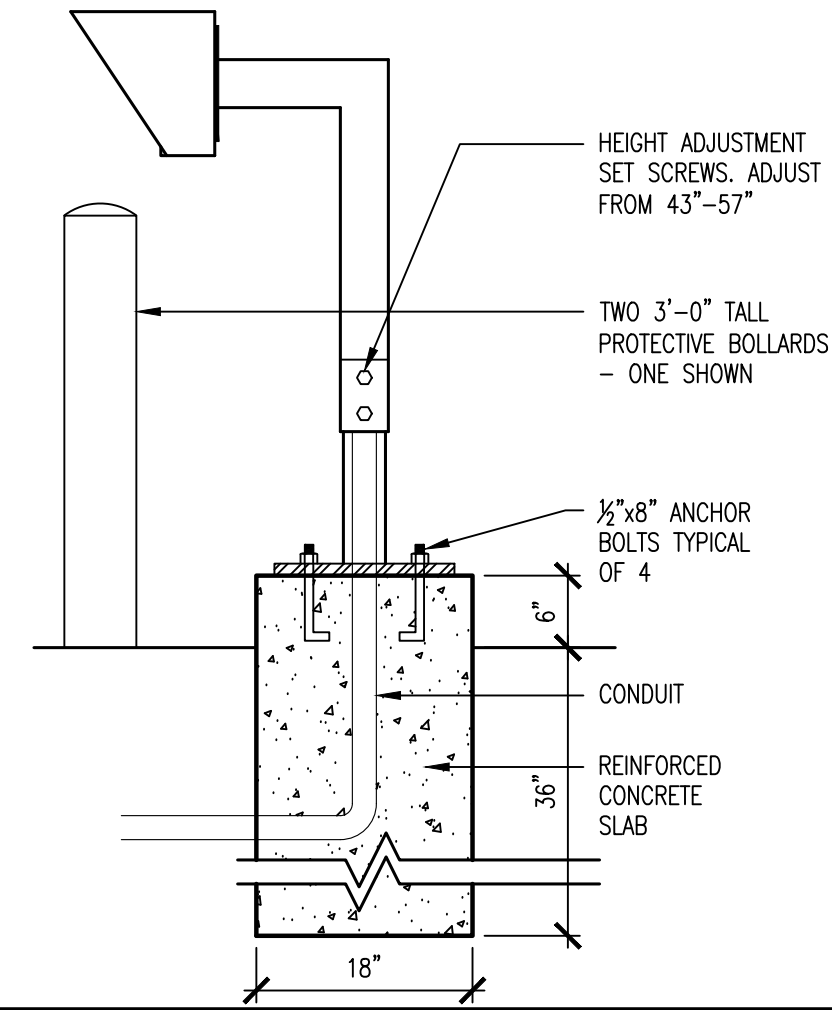
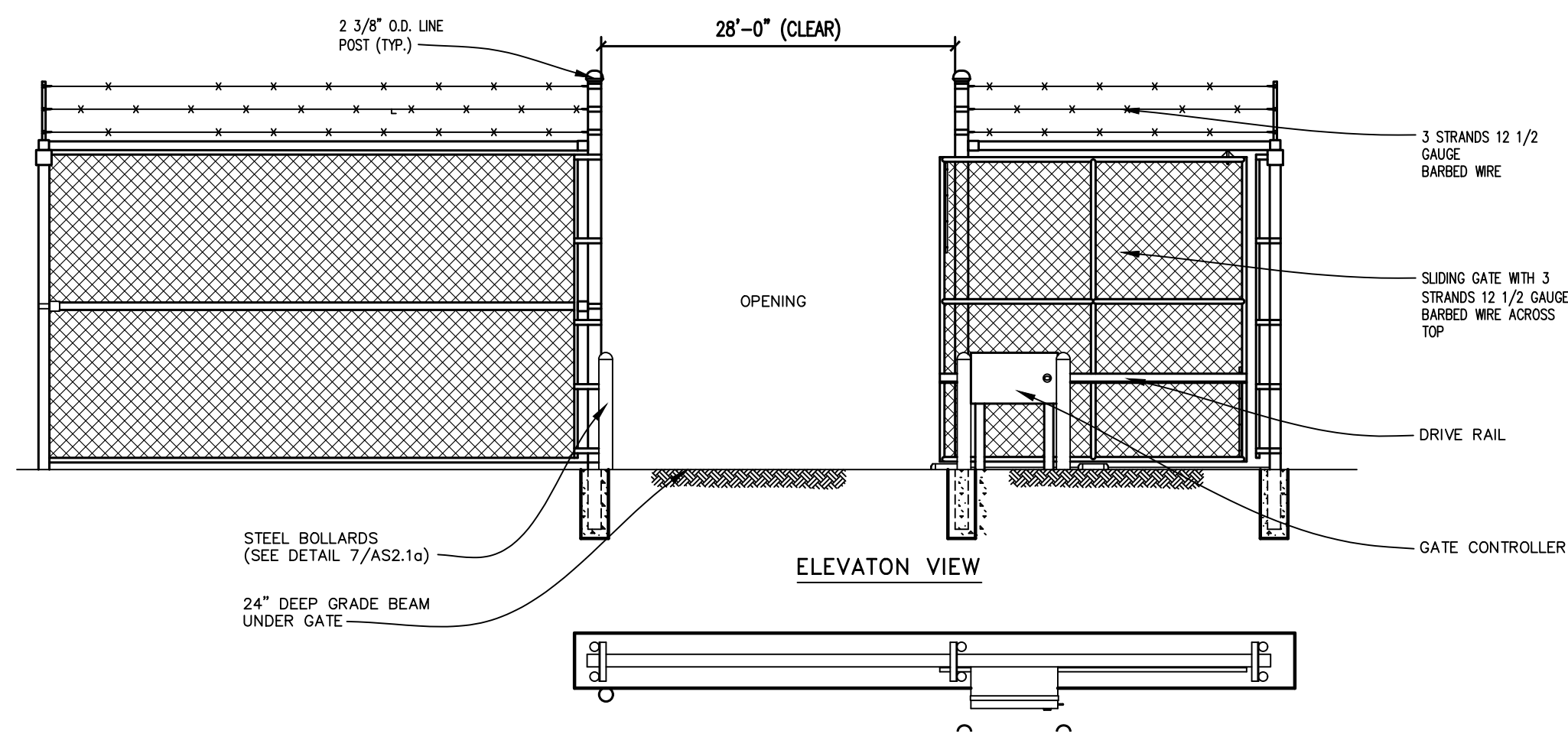


- ① NEW CHAIN LINK FENCE. (SEE DETAIL 7)
- ② NEW SLIDING CHAIN LINK GATE. (SEE DETAIL 8)
- ③ NEW CONCRETE SIDEWALK. (SEE DETAIL 3)
- ④ PIPE BOLLARD, CONCRETE FILLED, 4' TALL WITH 3' EMBEDDED IN CONCRETE. PAINT. (SEE DETAIL 4)
- ⑤ NEW PEDESTAL MOUNTED INTERCOM STATION. (SEE DETAILS 5&6)
- ⑥ NEW REGULAR DUTY ASPHALT PAVING. (SEE CIVIL)
- ⑦ EXISTING ASPHALT PAVING TO BE REMOVED.
- ⑧ EXISTING CONCRETE SIDEWALK TO BE REMOVED.
- ⑨ EXISTING MAILBOX TO BE RELOCATED.
- ⑩ EXISTING MAILBOX NEW LOCATION
- ⑪ NEW SEWER CHEWER IN EXISTING MANHOLE. (SEE PLUMBING AND CIVIL)
- ⑫ EXISTING CONCRETE STAIR AND CANOPY TO BE REMOVED.
- ⑬ EXISTING HVAC CONDENSING UNIT & CONCRETE PAD BE REMOVED. (SEE MECHANICAL)
- ⑭ NEW CONCRETE EQUIPMENT PAD.
- ⑮ NEW 8'-0" TALL CHAIN LINK FENCE WITH 3' WIDE MAN GATE AND TENNIS SCREEN.
- ⑯ NEW CONCRETE APRON. SEE CIVIL.
- ⑰ EXISTING CURB AND GUTTER TO BE REMOVED IN PREPARATION OF INSTALLATION OF NEW CONCRETE APRON.

3/8"=1'-0" ALUMINUM CHAIN LINK FENCE DETAIL 7

3/4"=1'-0" PEDISTAL MOUNTED INTERCOM PLAN 5

3/4"=1'-0" SIDEWALK DETAIL 3

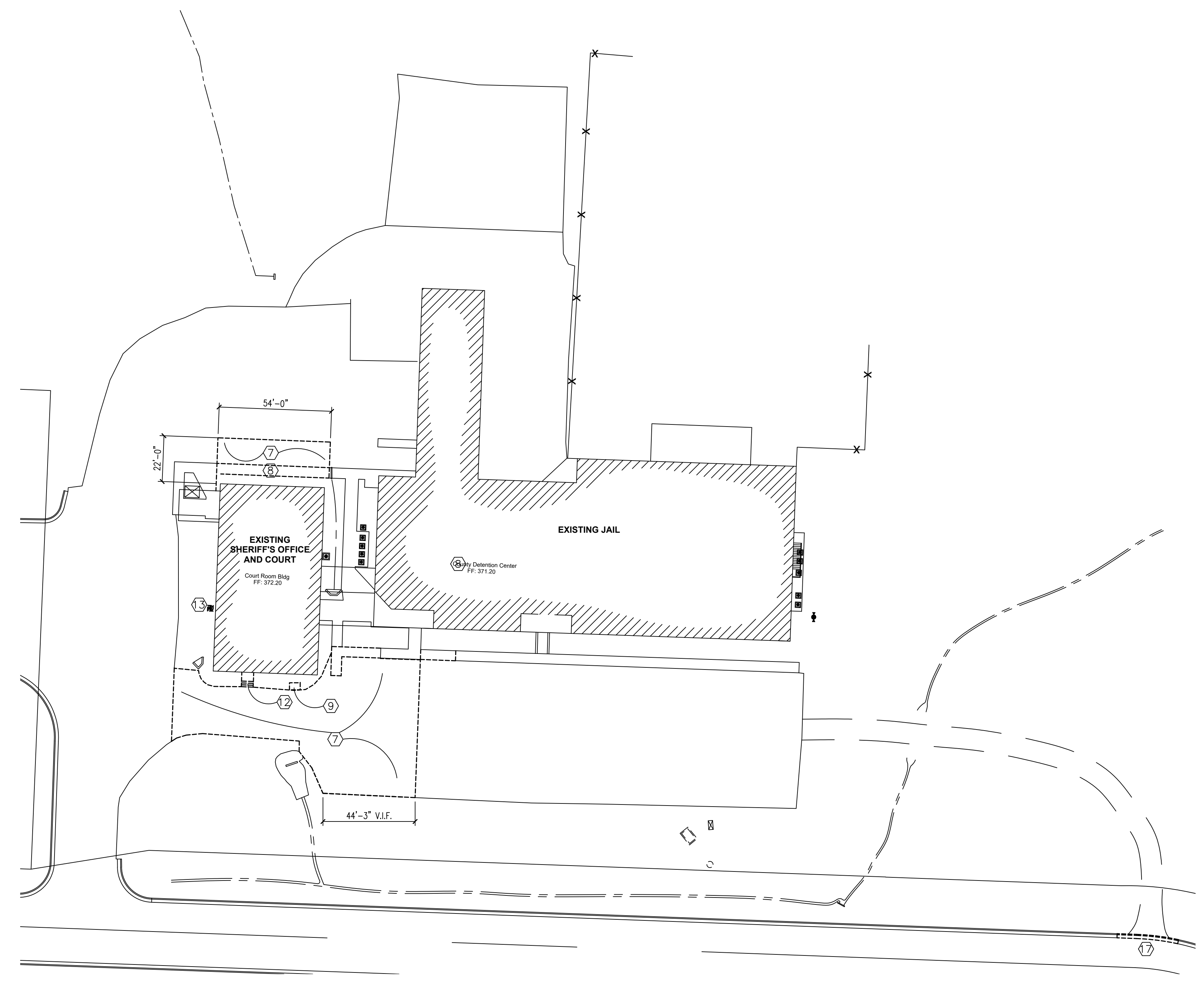
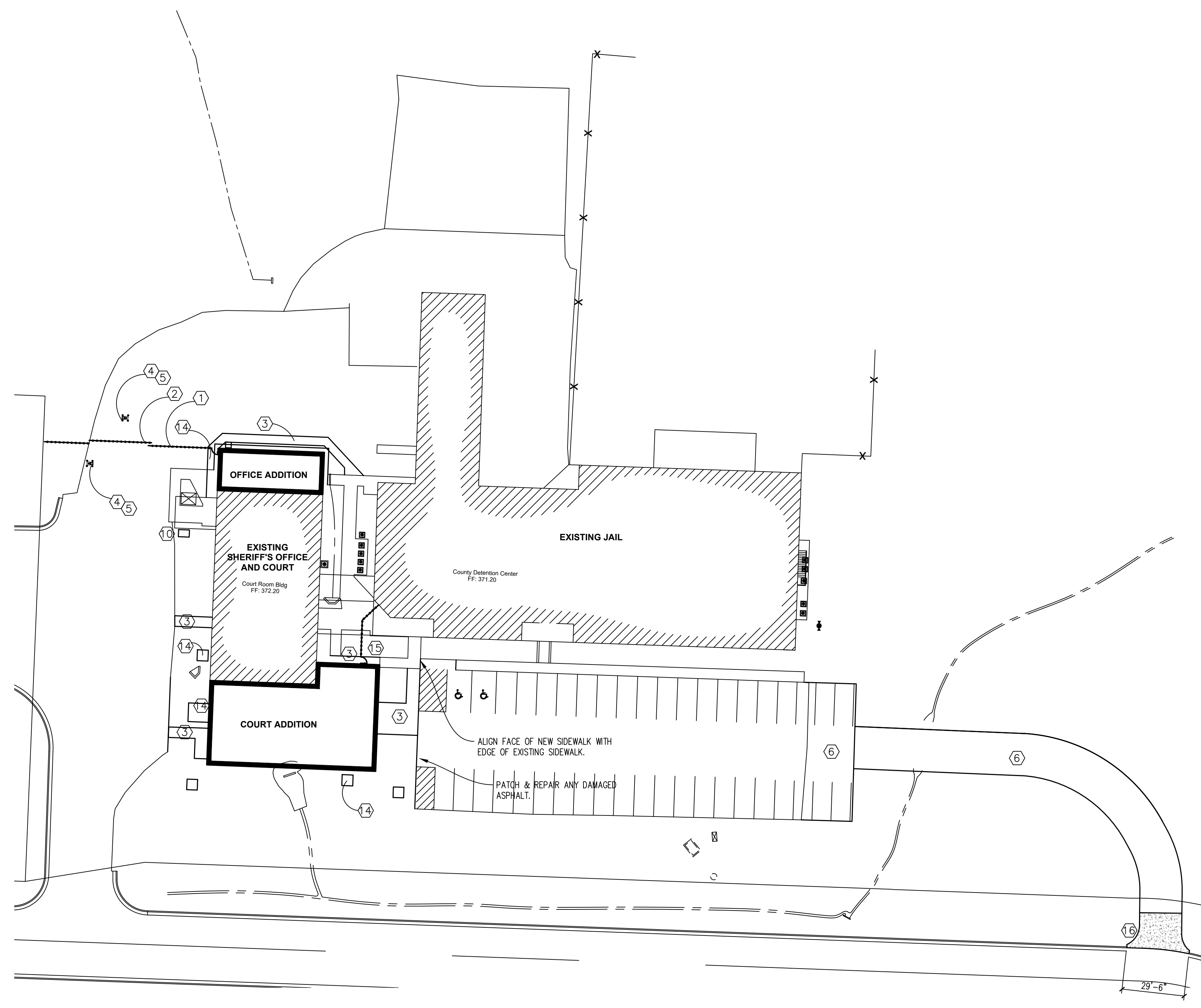


3/8"=1'-0" AUTOMATIC MOTORIZED ROLLING GATE DETAIL 8

3/4"=1'-0" PEDISTAL MOUNTED INTERCOM 6

3/4"=1'-0" BOLLARD DETAIL 4

ARCHITECTURAL KEYNOTES 1



PLOT DATE: 1/25/2025

1/32"=1'-0" ARCHITECTURAL DEMOLITION SITE PLAN 9

1/32"=1'-0" ARCHITECTURAL DEMOLITION SITE PLAN 2

**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**

301 PORTER INDUSTRIAL ROAD  
CLARKSVILLE, ARKANSAS 72830

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SEAL  
KIMBERLY SUZUKI LANGRISH  
REGISTERED PROFESSIONAL ARCHITECT  
NO. 3027  
ARIZONA  
1/21/25

SHEET TITLE  
**ARCHITECTURAL  
SITE  
PLANS**  
DATE  
1/21/25  
PROJECT NO.  
24-009A  
SHEET NO.  
**AS1.0**  
7 of 35



BUILDING CODE AND STANDARDS ANALYSIS  
 JOHNSON COUNTY COURT ADDITION & RENOVATION  
 CLARKSVILLE, ARKANSAS  
 December 17, 2024

GENERAL INFORMATION

Authority Having Jurisdiction:  
 City of Clarksville  
 205 Walnut Street  
 Clarksville, AR 72830

I. Applicable Codes and Regulations:

- A. 2012 Arkansas Fire Prevention Code (AFPC)
  - 1. Volume I
  - 2. Volume II
  - 3. Volume III
  - 4. Appendix B, C, D
- B. 2017 National Electrical Code
- C. 2010 Arkansas Mechanical Code
- D. 2006 Arkansas Plumbing Code
- E. 2006 Arkansas Fuel Gas Code
- F. 2009 International Energy Conservation Code
- G. Current National Fire Protection Association (NFPA) Code

II. USE AND OCCUPANCY CLASSIFICATION (IBC, CHAPTER 3)

- A. Occupancy Type: Mixed Use (IBC 508)
  - 1. Group A-3 (IBC 303.4)
  - 2. Group B (IBC 304)

III. TYPE OF CONSTRUCTION (IBC, CHAPTER 5)

- A. Type VB (IBC 503)
- B. Height (IBC Table 504.3)
  - 1. Actual: 1 story 17'-4" tall
  - 2. Allowed: 2 story with 6'-4" maximum height
- C. Area
  - 1. Actual: Gross actual square footage: 9,030 SF:
    - a. A-3: 1,885 SF
    - b. (New): 2,645 SF
    - c. (Removed): 1,500 SF
    - d. (Existing): 3,000 SF
  - 2. Allowed: Adjusted to 28,500 SF per IBC 506.2.2 and 506.3
- D. Occupancy separation required: 1hr (IBC Table 508.4)
- E. Occupancy Load
  - 1. Assembly Occupancy: 108
    - a. Courtroom (IBC Table 1004.5): 956 SF/40: 24
    - b. Fixed Seating (IBC Table 1004.5): 84
  - 2. Business Occupancy (IBC Table 1004.5): 4,145 SF/150: 28

IV. EGRESS (IBC CHAPTER 10)

- A. Group A-3: 250' between any point in a room and an exit (IBC Table 1017.2)
- B. Group B: 300' between any point in a room and an exit (IBC Table 1017.2)

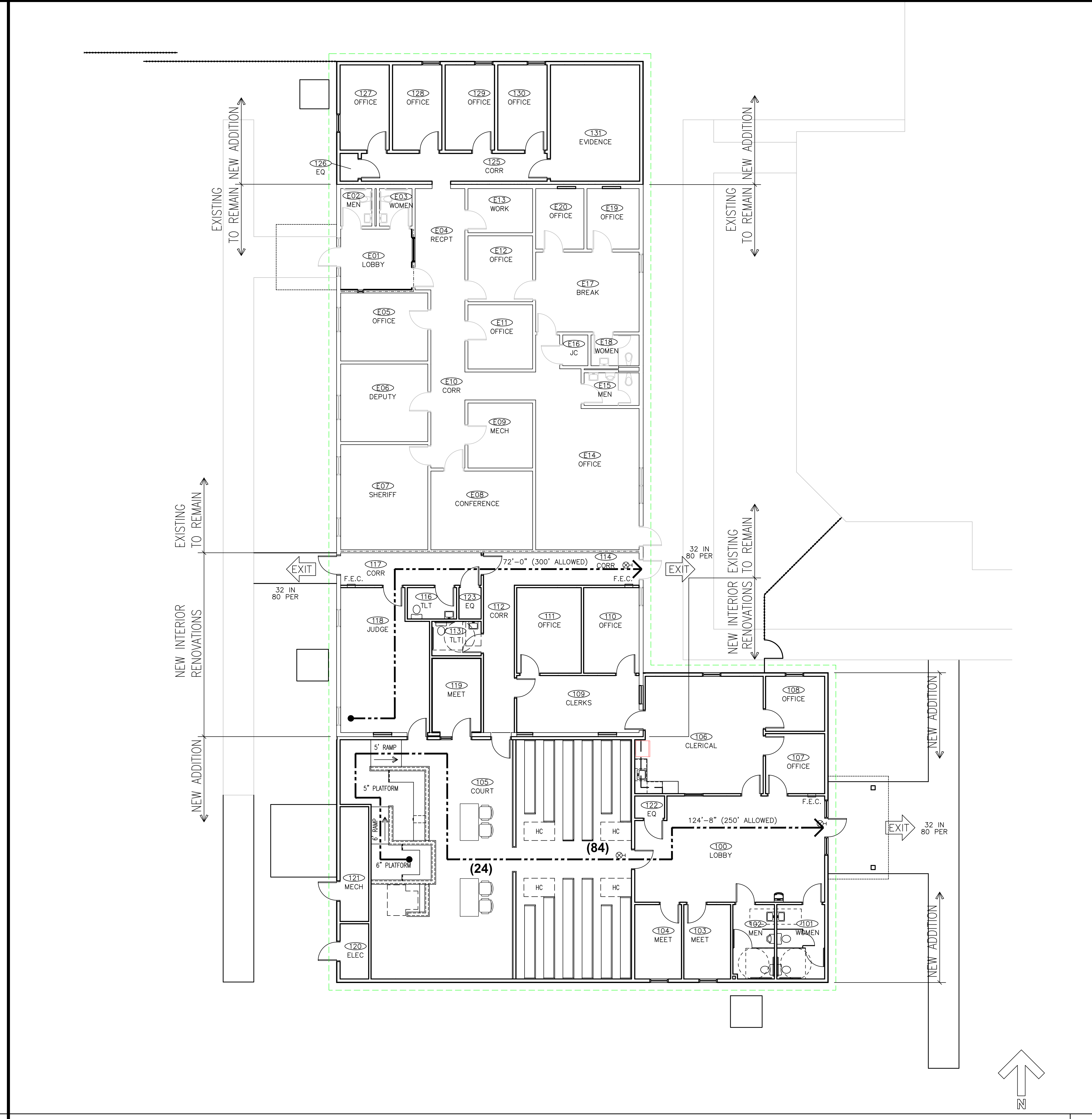
V. ACCESSIBILITY (IBC, CHAPTER 11, Table 1109.2.1)

- A. Minimum required number of wheelchair spaces for the spectator seating is 4 based upon the occupancy of 84.

VI. PLUMBING (IPC, CHAPTER 4, Table 403.1)

- A. A-3 requirements (108 occupants) Assumed 54 Males & Females (PC 403.1.1)
  - 1. Water Closets - Male
    - a. Required: 1 per 125 = 1
    - b. Provided: 2
  - 2. Water Closets - Female
    - a. Required: 1 per 85 = 1
    - b. Provided: 2
  - 3. Lavatories - Male
    - a. Required: 1 per 200 = 1
    - b. Provided: 1
  - 4. Lavatories - Female
    - a. Required: 1 per 200 = 1
    - b. Provided: 1
  - 5. Drinking Fountains
    - a. Required: 1 per 500 = 1
    - b. Provided: 1
- B. B requirements (28 occupants) Assumed 14 Males & Females (PC 403.1.1)
  - 1. Water Closets - Male
    - a. Required: per 25 for first 50, then 1 per 50 = 1
    - b. Provided: 1
  - 2. Water Closets - Female
    - a. Required: per 25 for first 50, then 1 per 50 = 1
    - b. Provided: 1
  - 3. Lavatories - Male
    - a. Required: 1 per 40 for first 80, then 1 per 80 = 1
    - b. Provided: 1
  - 4. Lavatories - Female
    - a. Required: 1 per 40 for first 80, then 1 per 80 = 1
    - b. Provided: 1
  - 5. Drinking Fountains
    - a. Required: 1 per 100 = 1
    - b. Provided: 1

END OF CODES AND STANDARDS ANALYSIS



SCALE DETAIL 7

SCALE DETAIL 8

SCALE DETAIL 9

SCALE DETAIL 10

SCALE DETAIL 11

SCALE CODE STUDY 5

SCALE DETAIL 6

SCALE 1/8"=1'-0"

SCALE DETAIL 4

SCALE DETAIL 3

SCALE DETAIL 3

LIFE SAFETY FLOOR PLAN 1

LIFE SAFETY LEGEND 2

- 1 HOUR FIRE BARRIER WALL
- FIRE ALARM MANUAL PULL STATION
- FIRE ALARM STROBE ALARM
- ⊕ HEAT DETECTOR
- ⊙ SMOKE DETECTOR
- ⊖ DUCT SMOKE DETECTOR
- (24) OCCUPANT LOAD IN SPACE
- X TRAVEL DISTANCE TO/FROM SMOKE BARRIER (PER IBC 408.6.1)
- ➔ DIRECTION OF EGRESS TO PUBLIC WAY
- ➔ MAXIMUM CLEAR OPENING (EXIT CAPACITY)
- ➔ X IN X PER MAXIMUM PEOPLE EXITING
- ⊠ FIRE ALARM HORN W/VISUAL ALARM
- ⊕ EXIT SIGN
- ⊠ WALL MOUNTED EMERGENCY LIGHT
- F.E.C. FIRE EXTINGUISHER W/ CABINET

PLOT DATE: 2/25/2025

NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
 COURT ADDITION & RENOVATION**

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VANCE SUZUKI LANGFORD  
 No. 30210  
 ARKANSAS  
 1/21/25

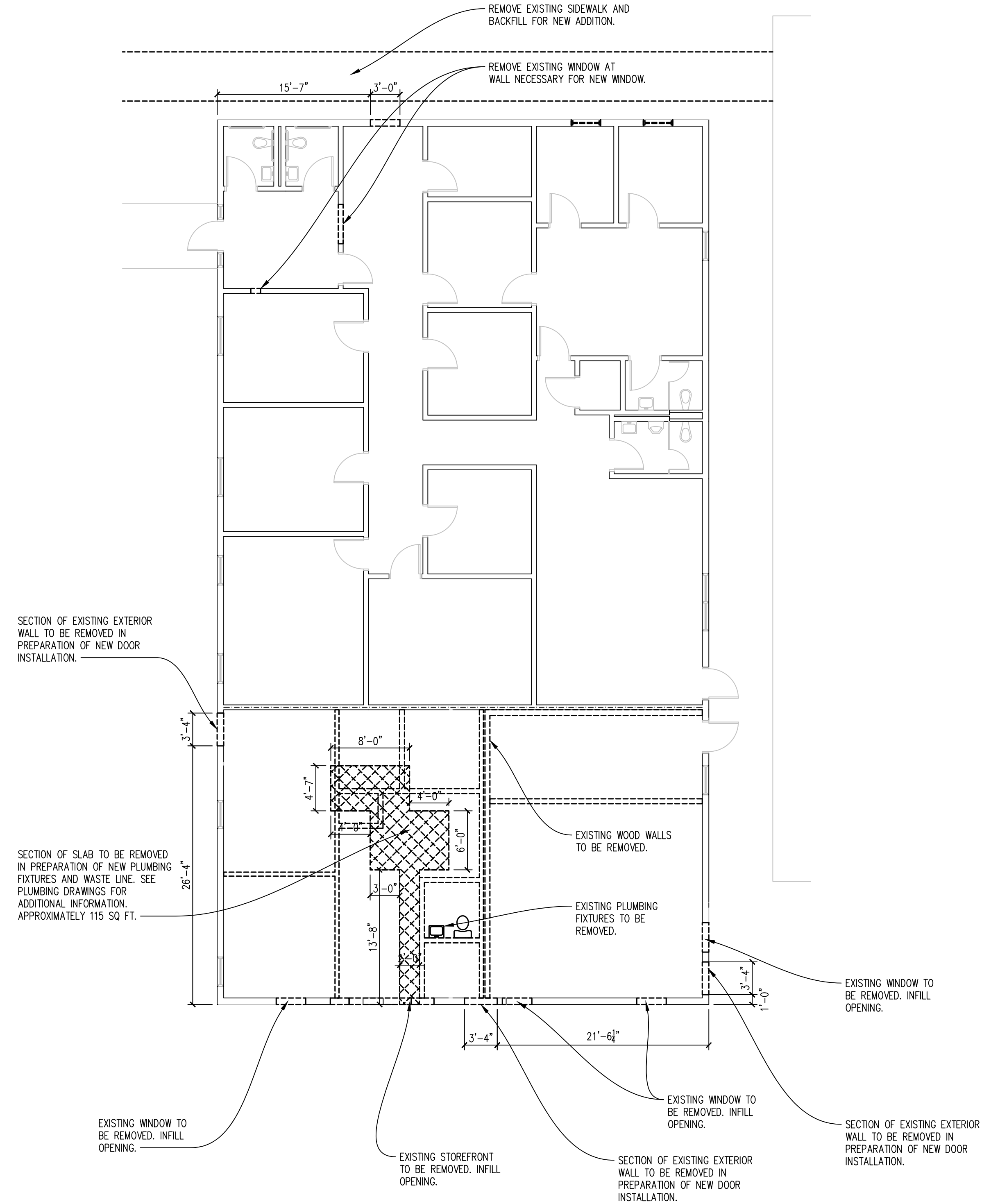
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**LIFE SAFETY  
 PLAN AND  
 CODE STUDY**

DATE  
 1/21/25

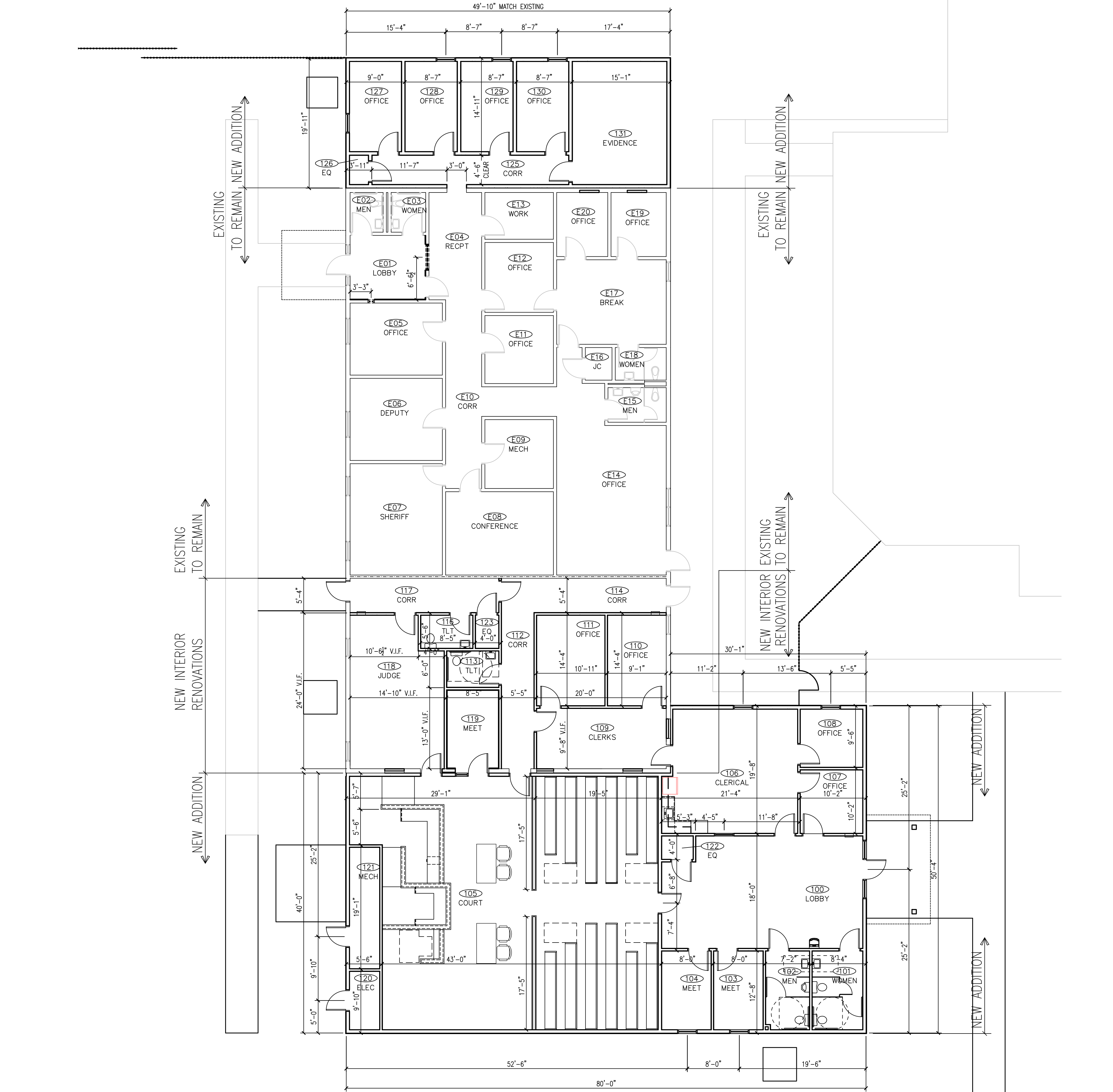
PROJECT NO.  
 24-009A

SHEET NO.  
**LS1.0**





1/8"=1'-0" DEMOLITION PLAN 5



1/8"=1'-0" DIMENSIONED FLOOR PLAN 1

PLOT DATE: 2/22/2025

SCALE	DETAIL 7	SCALE	DETAIL 6	SCALE	DETAIL 4	SCALE	DETAIL 3	SCALE	DETAIL 2
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NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**

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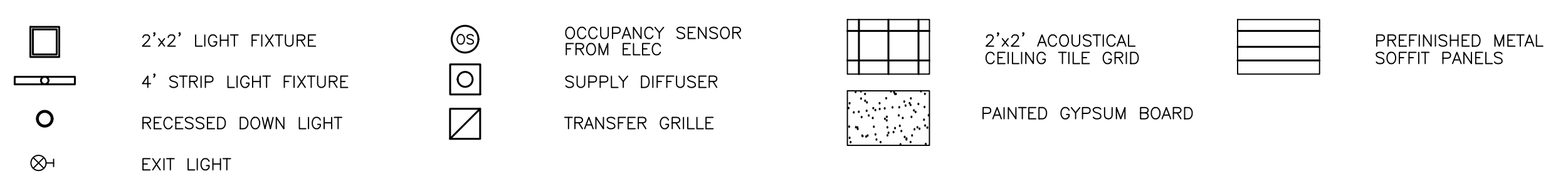
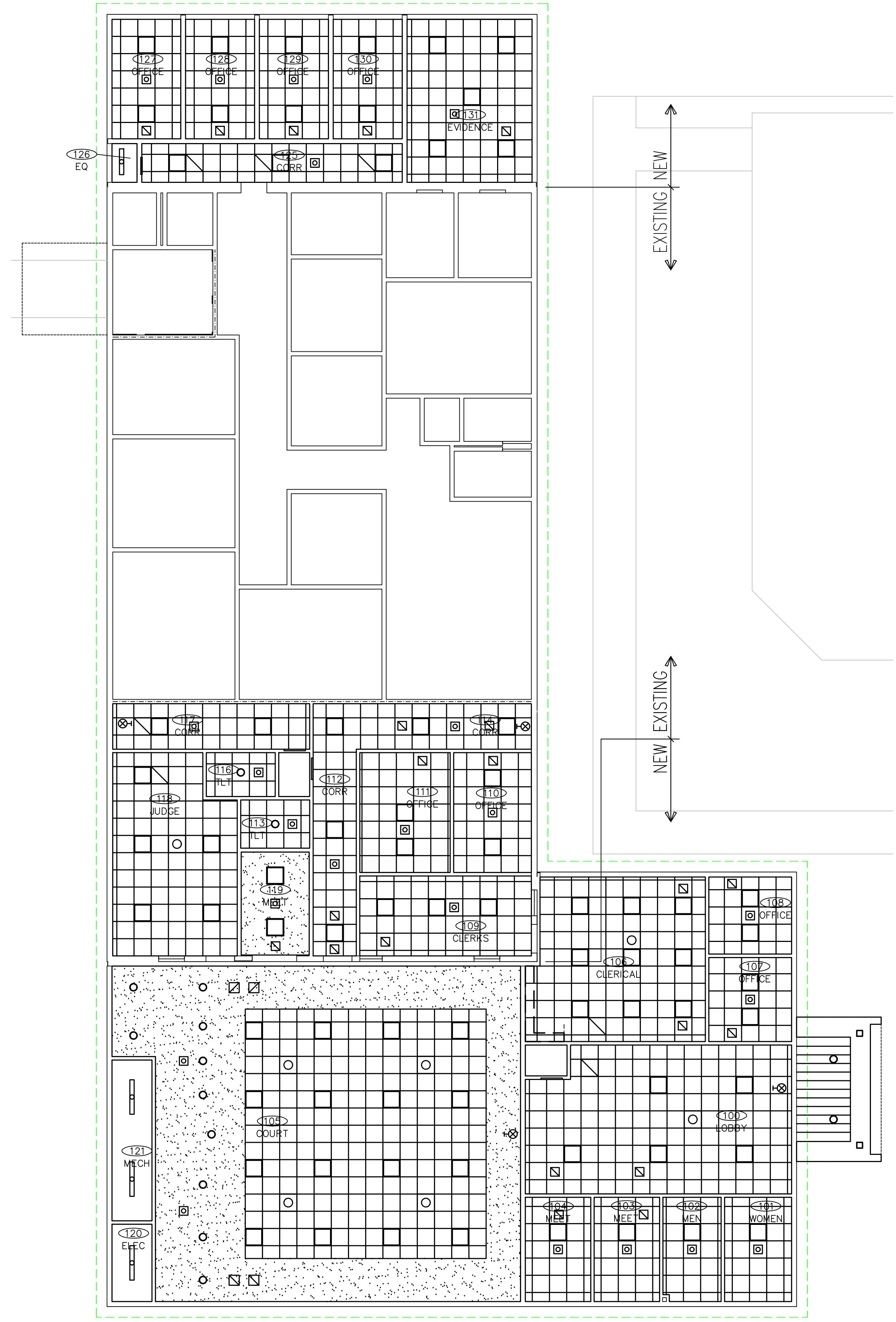


SHEET TITLE	DIMENSIONED AND DEMOLITION FLOOR PLANS
DATE	1/21/25
PROJECT NO.	24-009A
SHEET NO.	A1.0

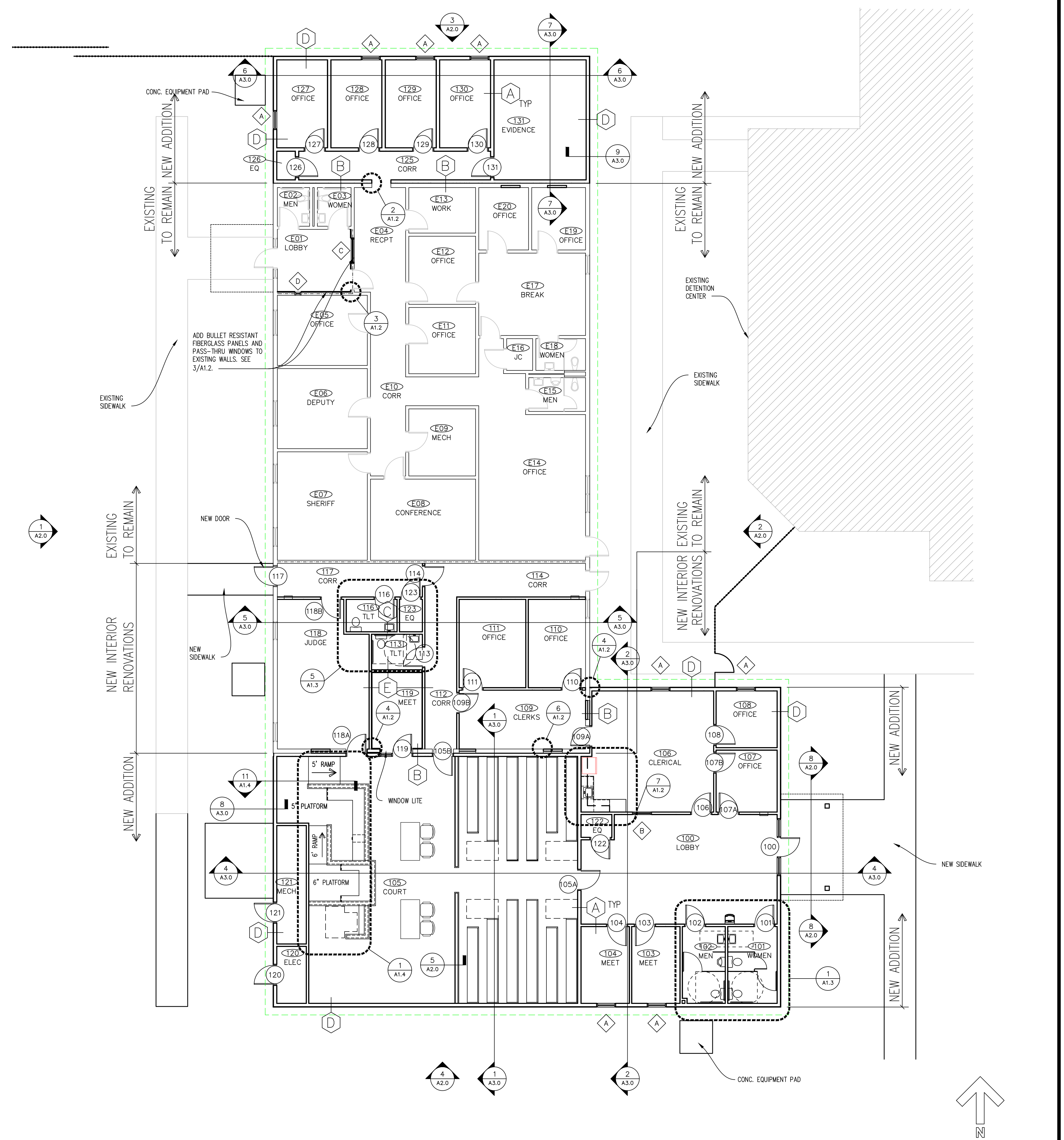
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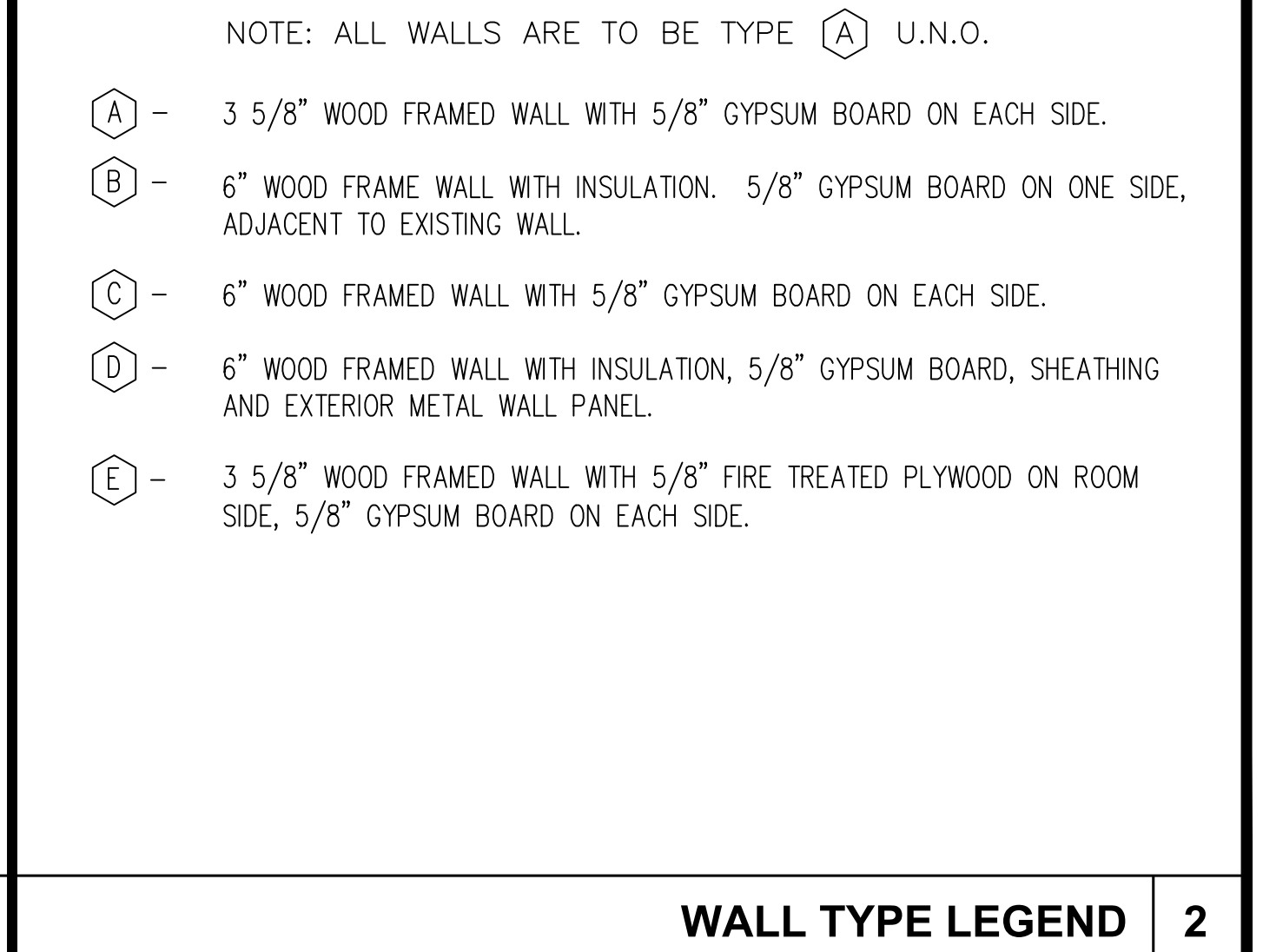
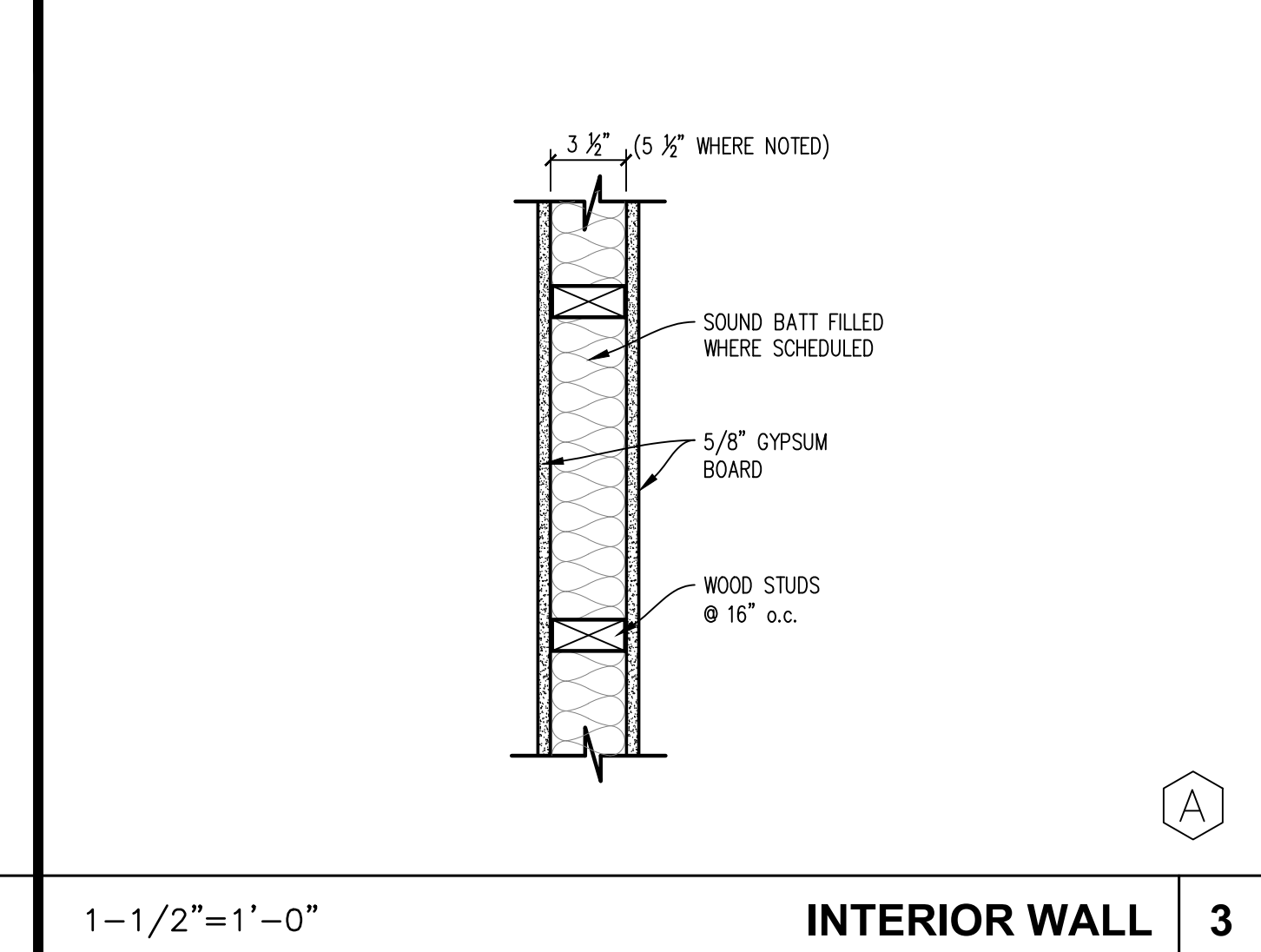
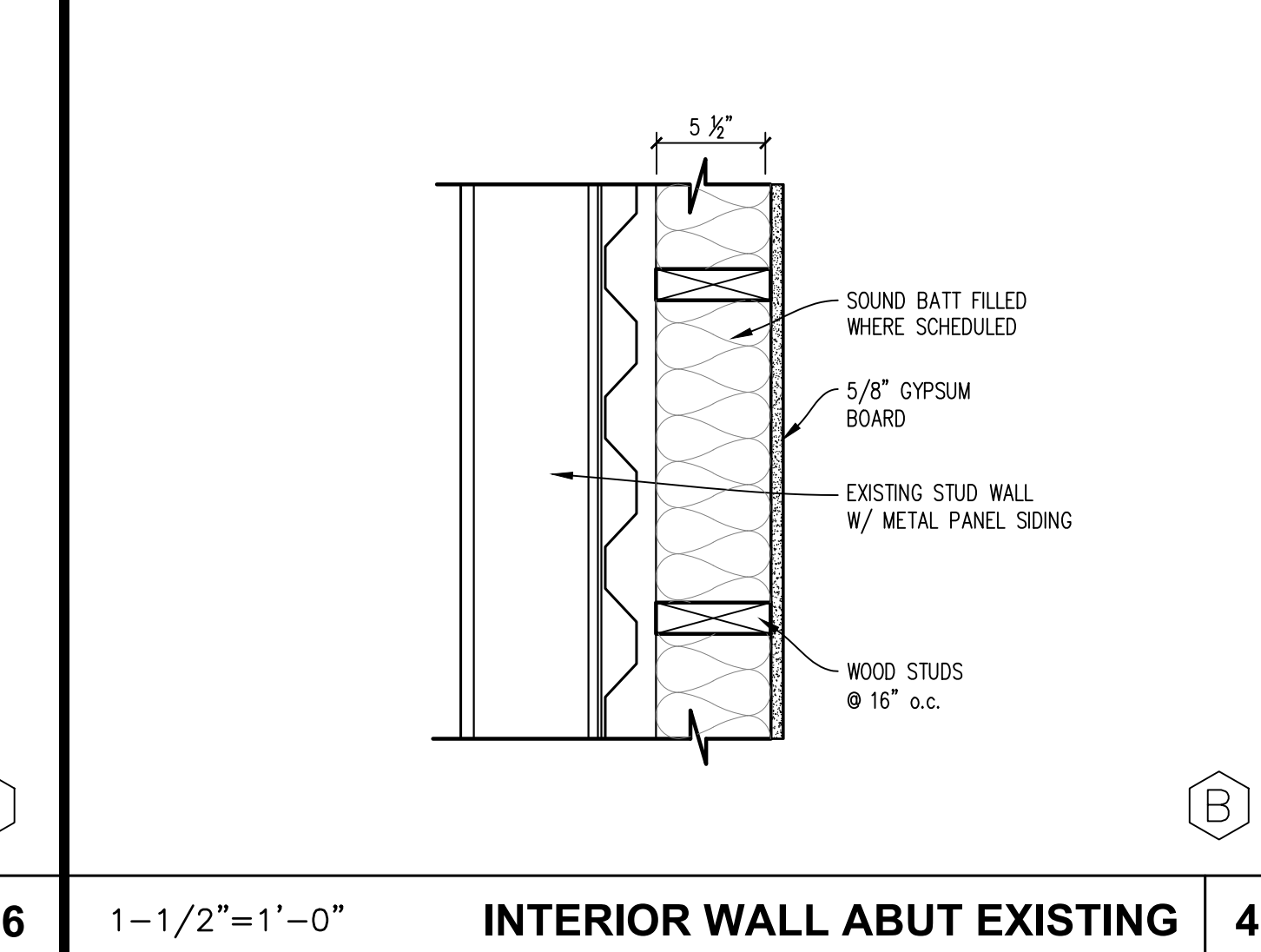
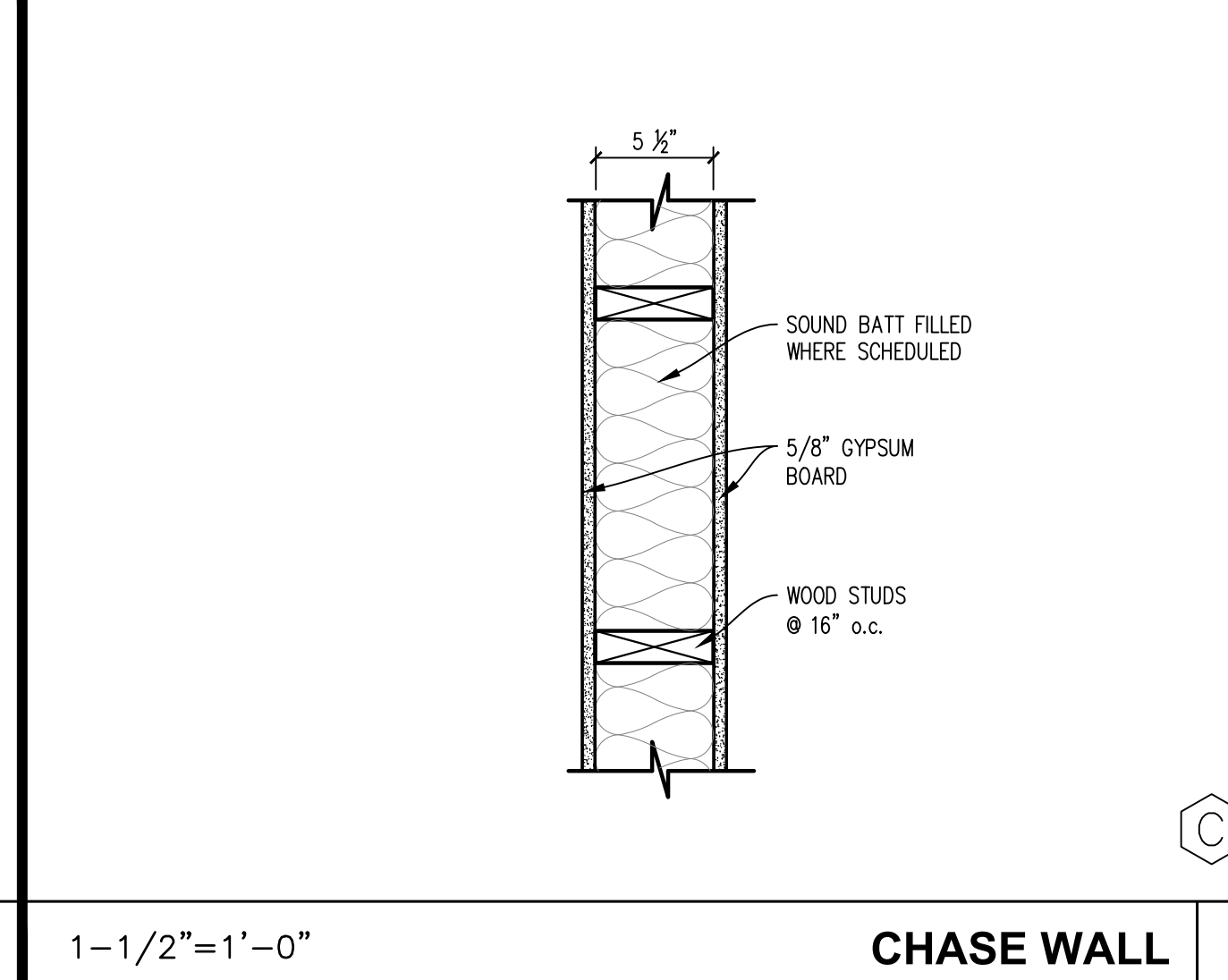
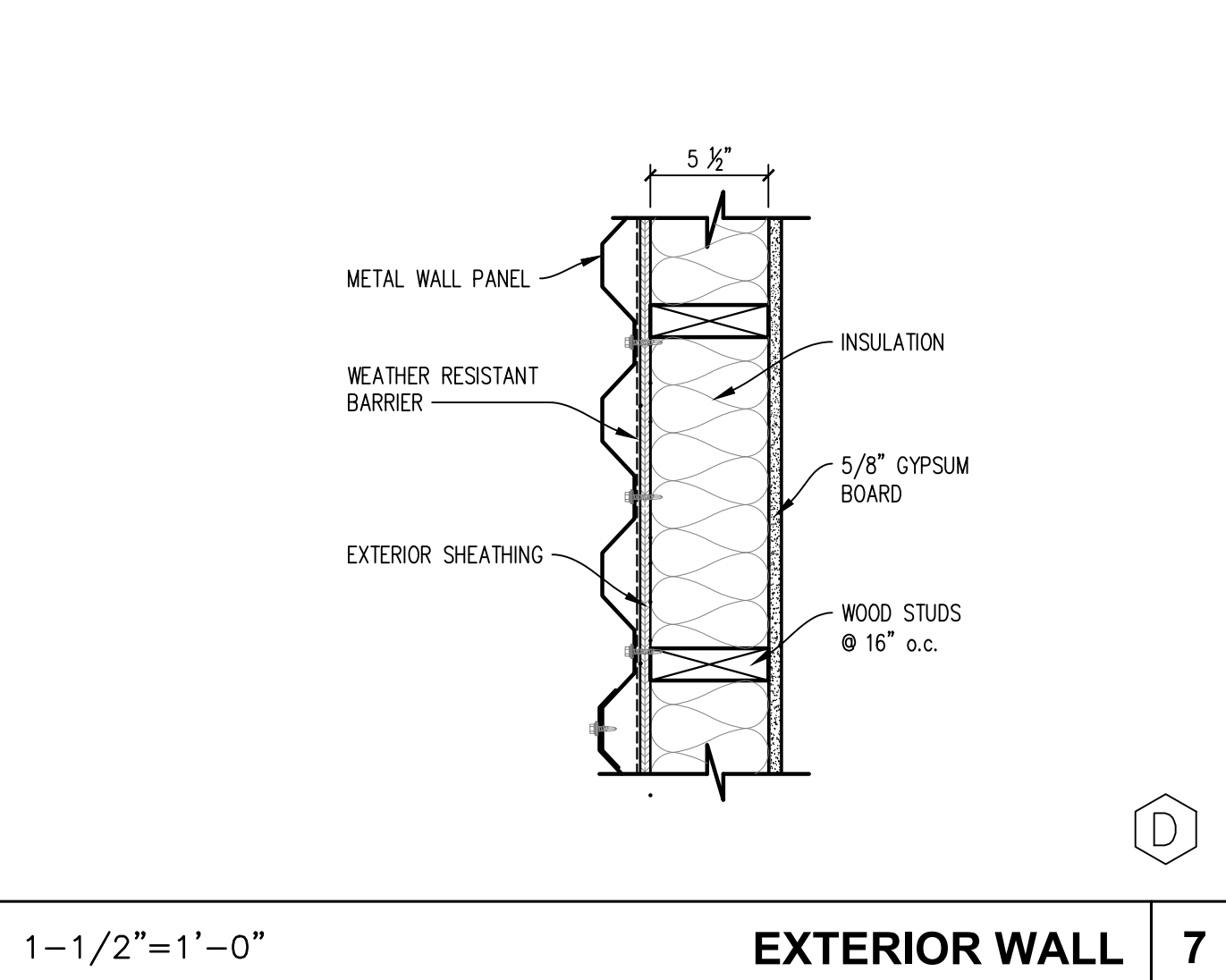
NOTES:  
1. SEE ROOM FINISH SCHEDULE SHEET A5.0 FOR CEILING HEIGHTS, U.N.O.



1/8"=1'-0" REFLECTED CEILING PLAN 5



1/8"=1'-0" NOTED FLOOR PLAN 1



1-1/2"=1'-0" EXTERIOR WALL 7 1-1/2"=1'-0" CHASE WALL 6 1-1/2"=1'-0" INTERIOR WALL ABUT EXISTING 4 1-1/2"=1'-0" INTERIOR WALL 3

NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
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NOTE: ALL WALLS ARE TO BE TYPE (A) U.N.O.

- (A) - 3 5/8" WOOD FRAMED WALL WITH 5/8" GYPSUM BOARD ON EACH SIDE.
- (B) - 6" WOOD FRAME WALL WITH INSULATION. 5/8" GYPSUM BOARD ON ONE SIDE, ADJACENT TO EXISTING WALL.
- (C) - 6" WOOD FRAMED WALL WITH 5/8" GYPSUM BOARD ON EACH SIDE.
- (D) - 6" WOOD FRAMED WALL WITH INSULATION, 5/8" GYPSUM BOARD, SHEATHING AND EXTERIOR METAL WALL PANEL.
- (E) - 3 5/8" WOOD FRAMED WALL WITH 5/8" FIRE TREATED PLYWOOD ON ROOM SIDE, 5/8" GYPSUM BOARD ON EACH SIDE.

SHEET TITLE  
**NOTED AND REFLECTED CEILING PLANS**

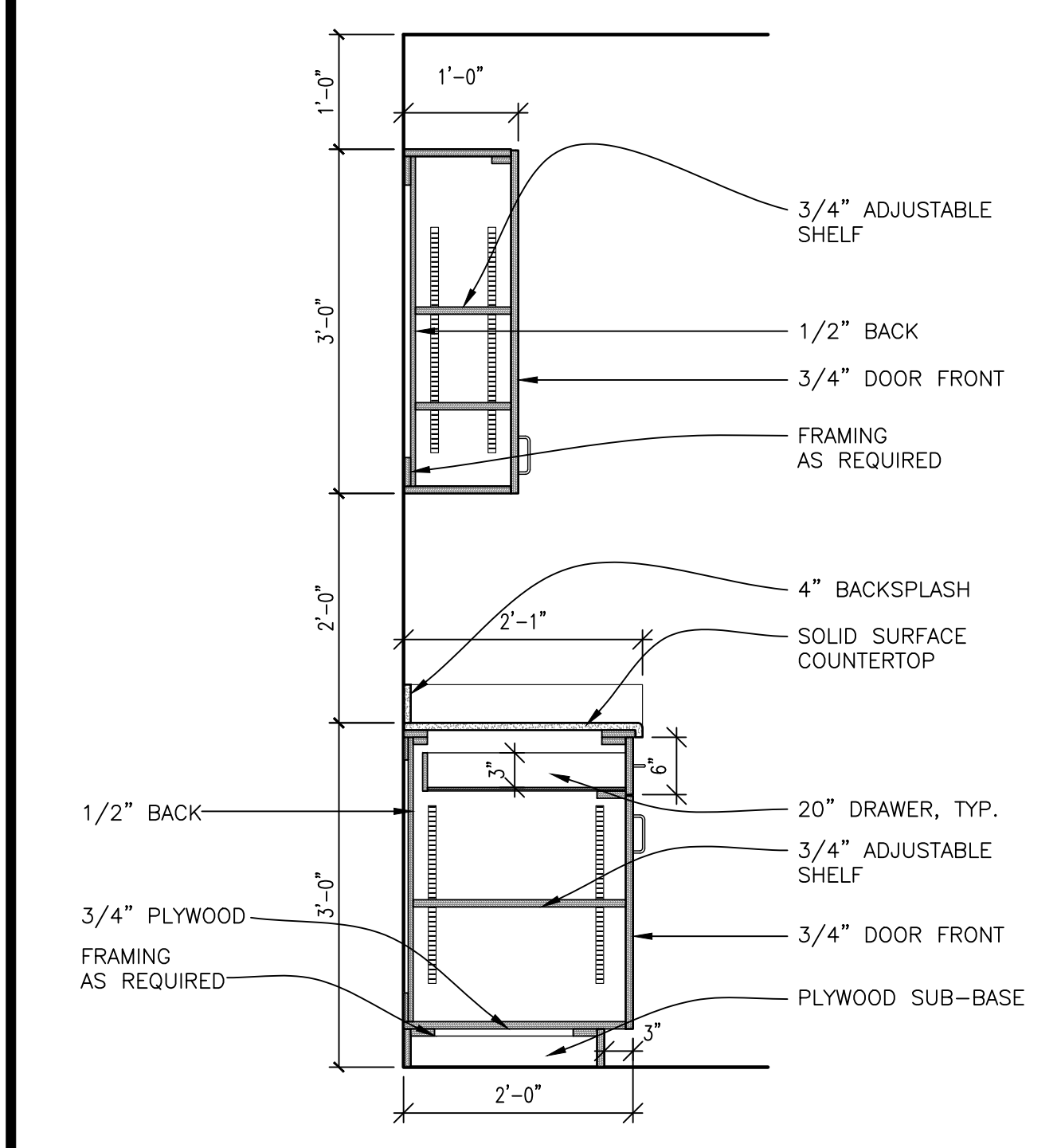
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1/21/25

PROJECT NO.  
24-009A

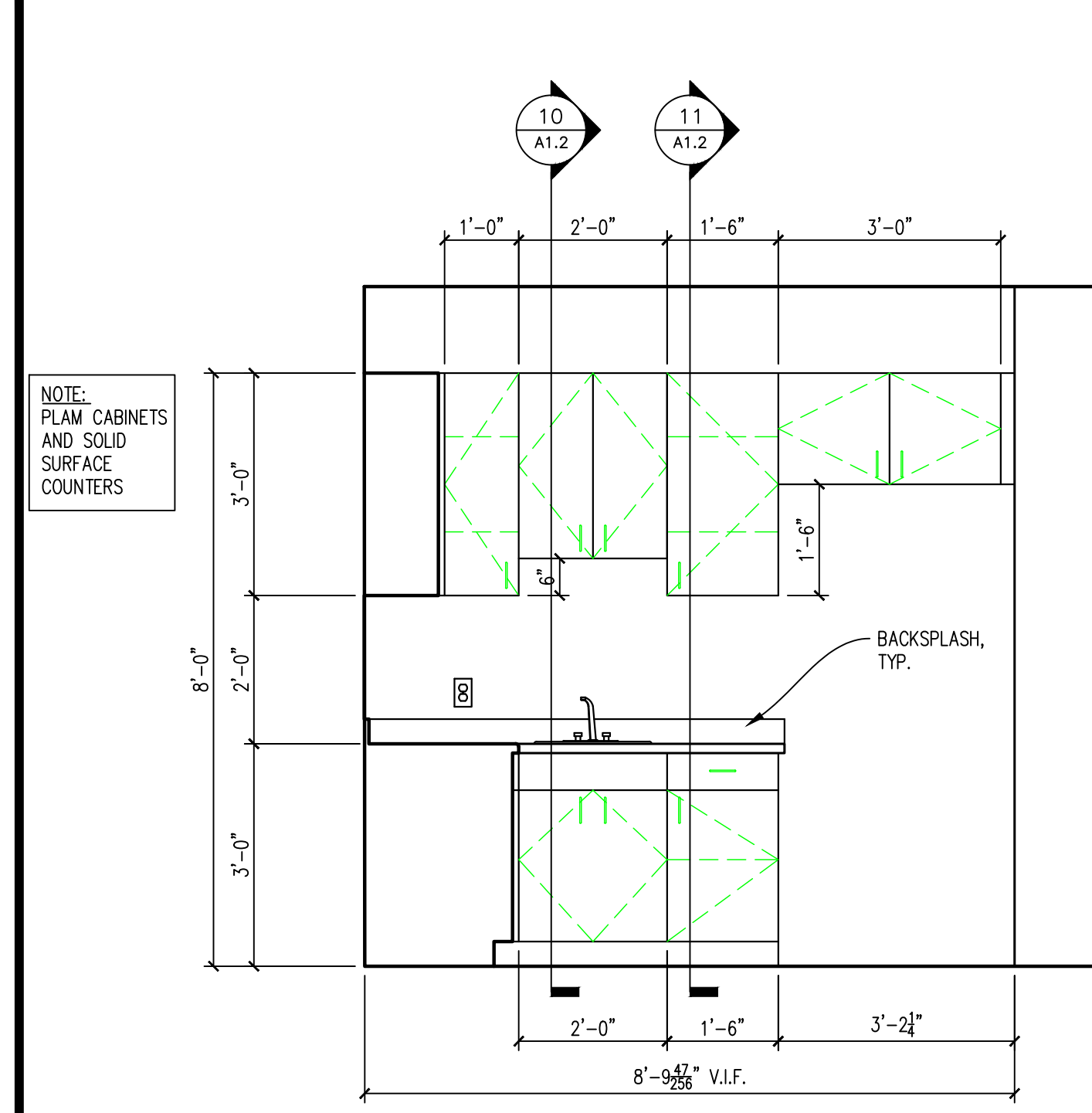
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**A1.1**

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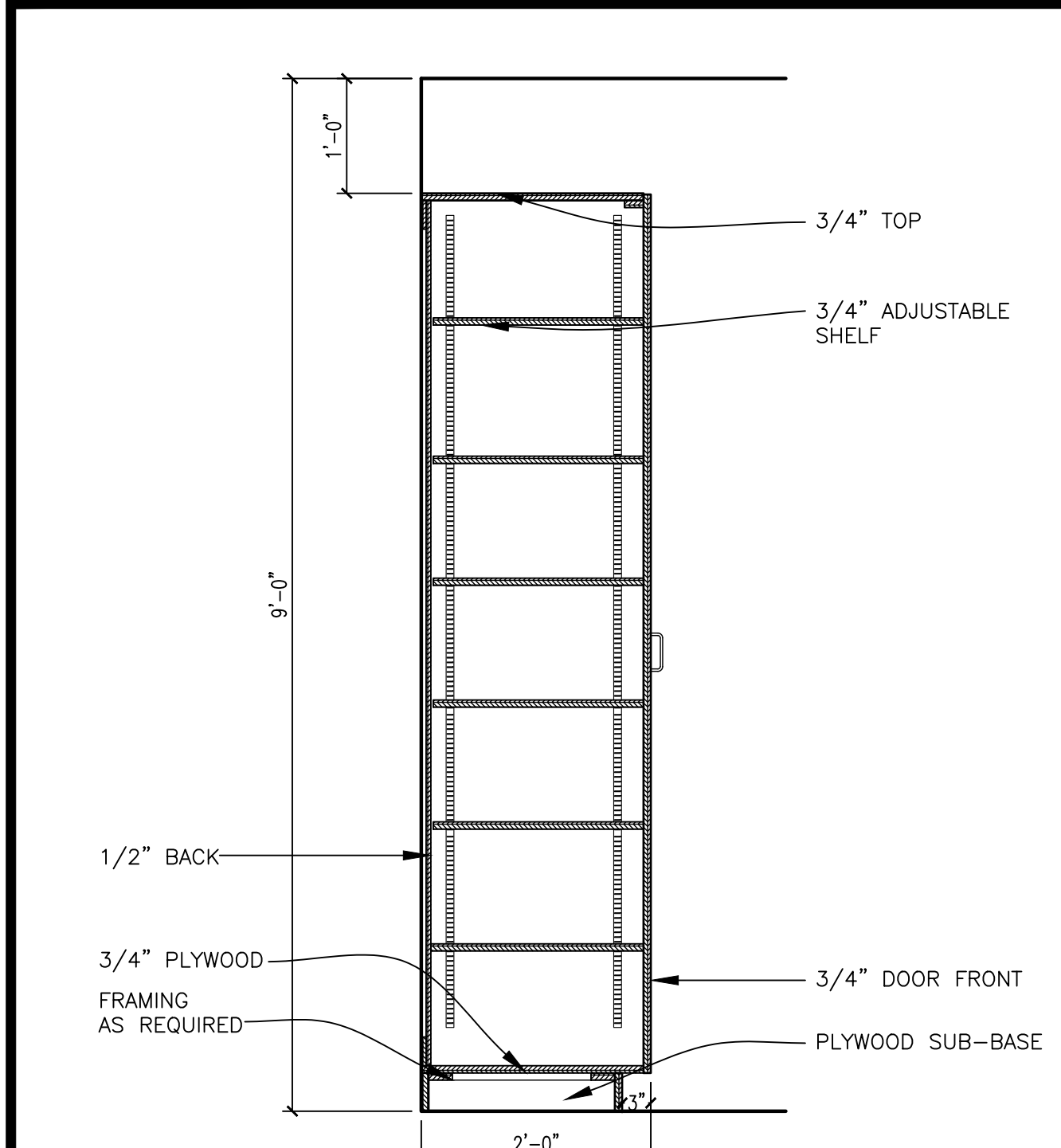




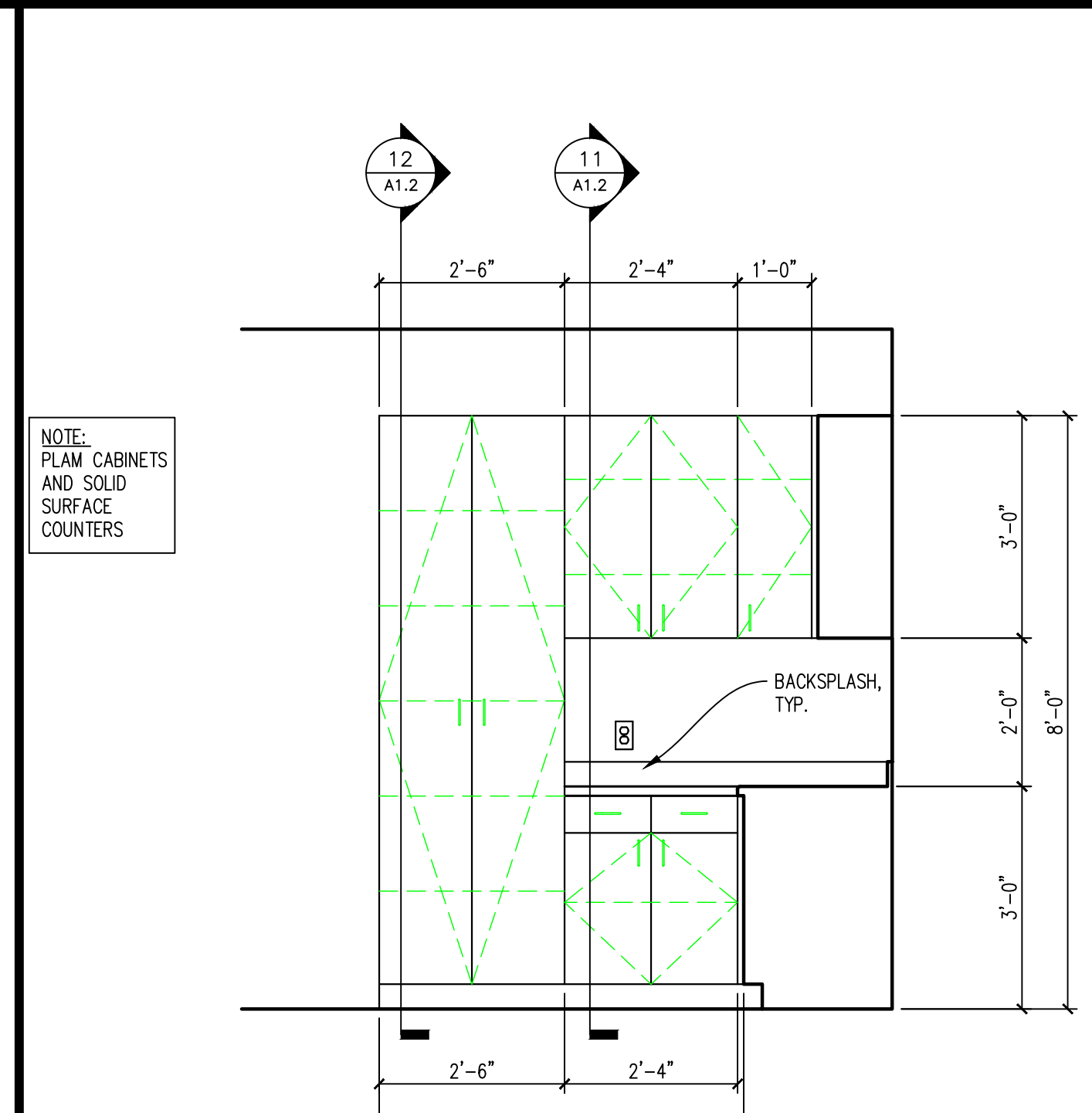
3/4" = 1'-0" HIGH / LOW CABINETS 11



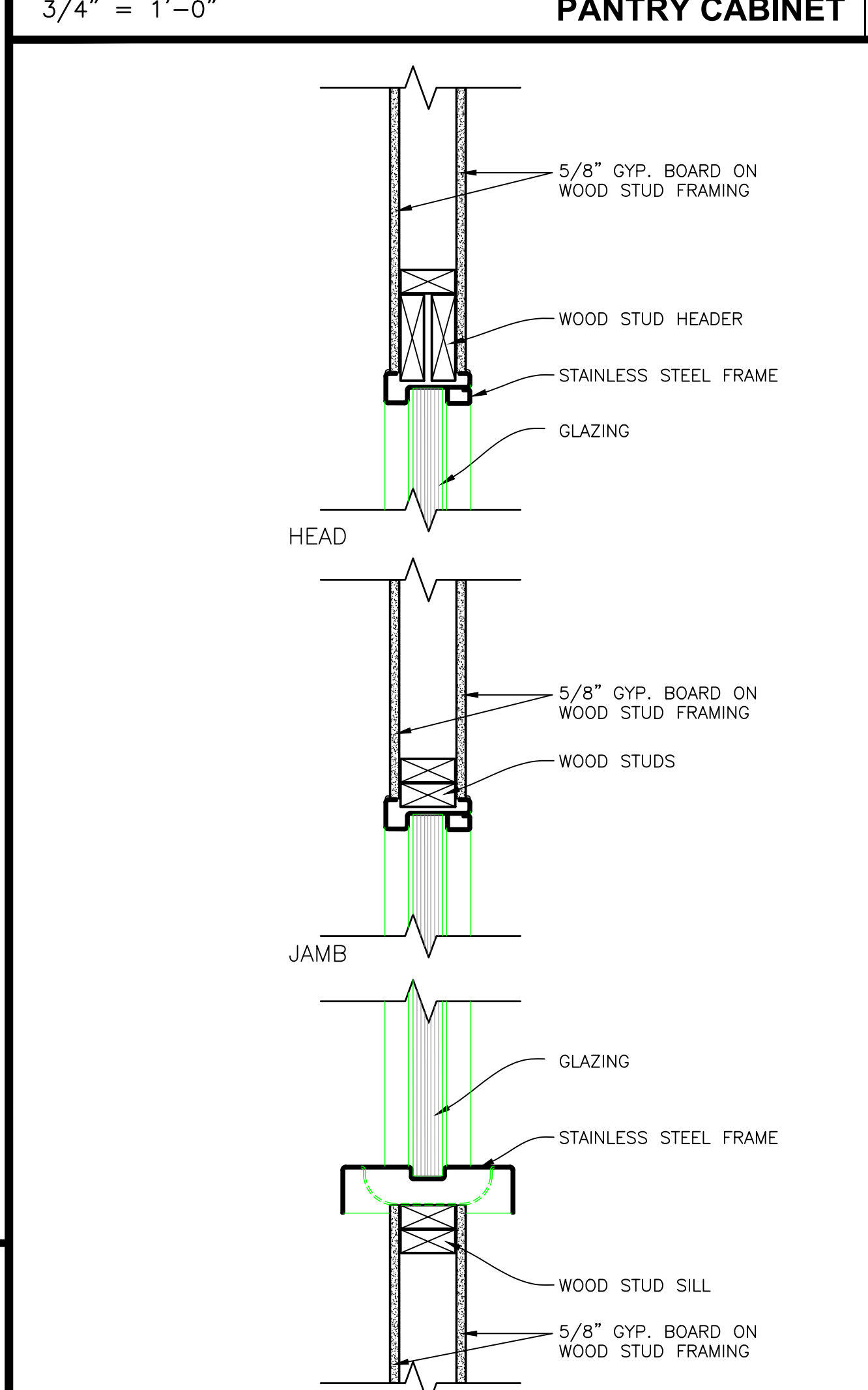
1/2" = 1'-0" MILLWORK ELEVATION 8



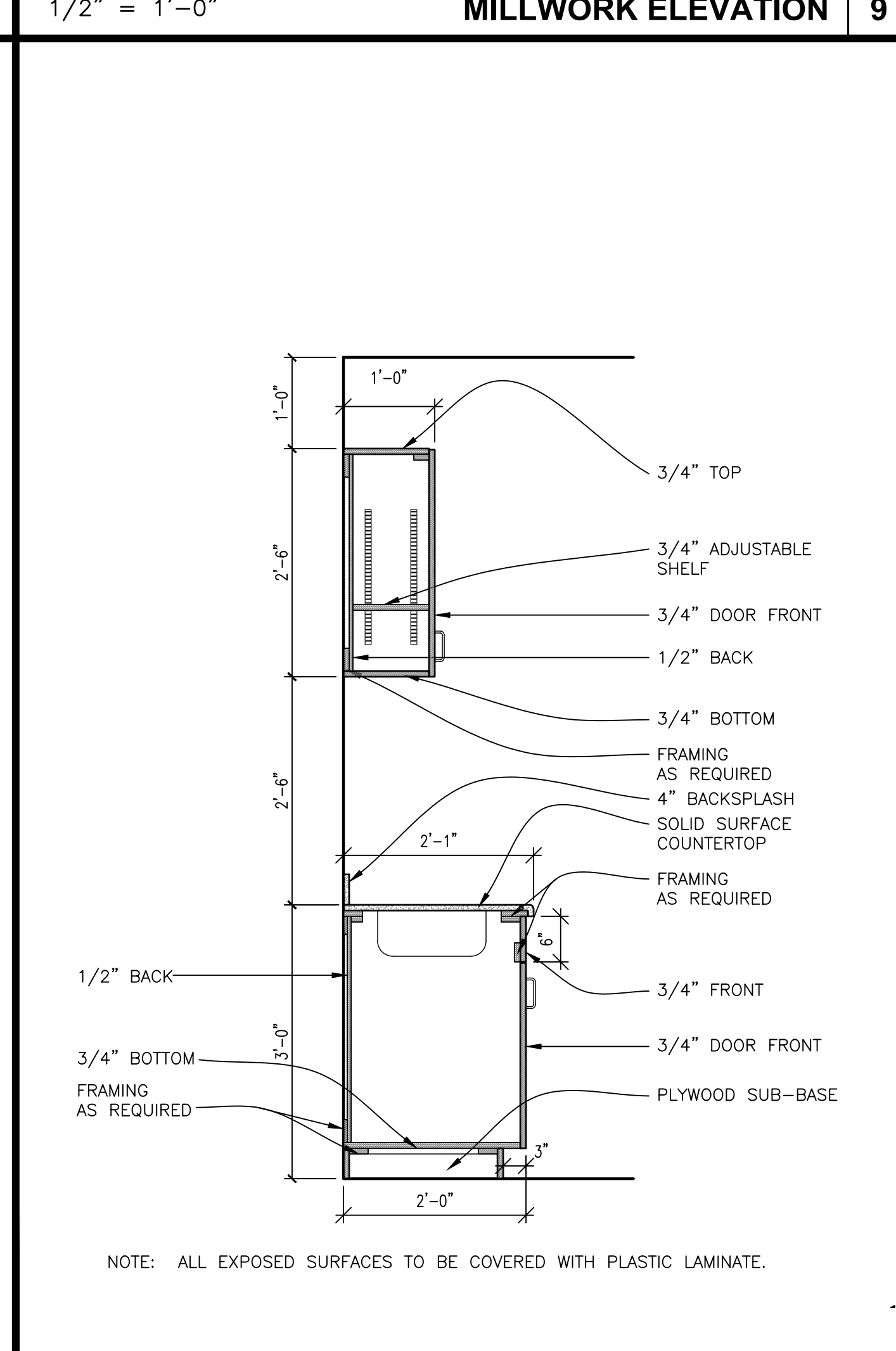
3/4" = 1'-0" PANTRY CABINET 12



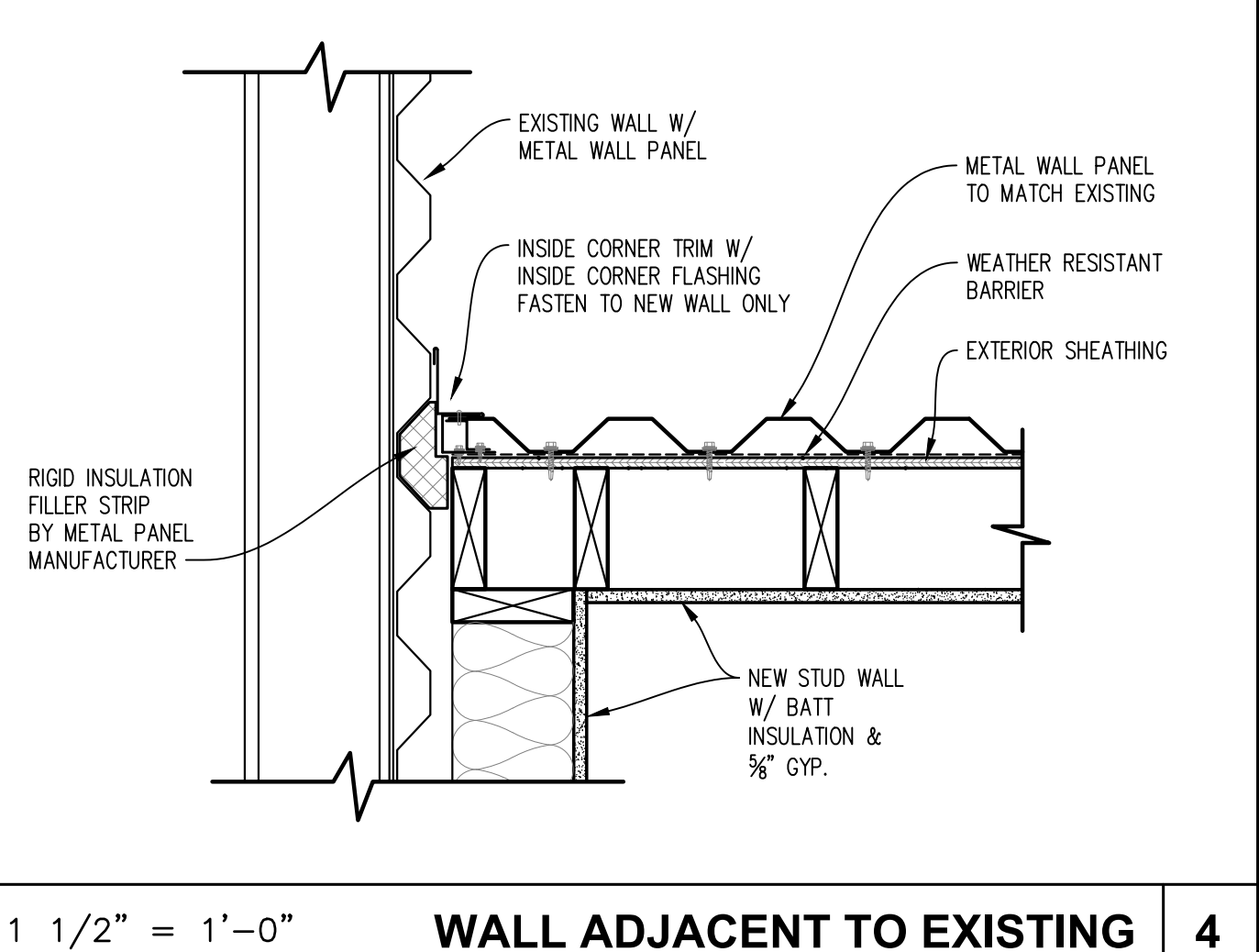
1/2" = 1'-0" MILLWORK ELEVATION 9



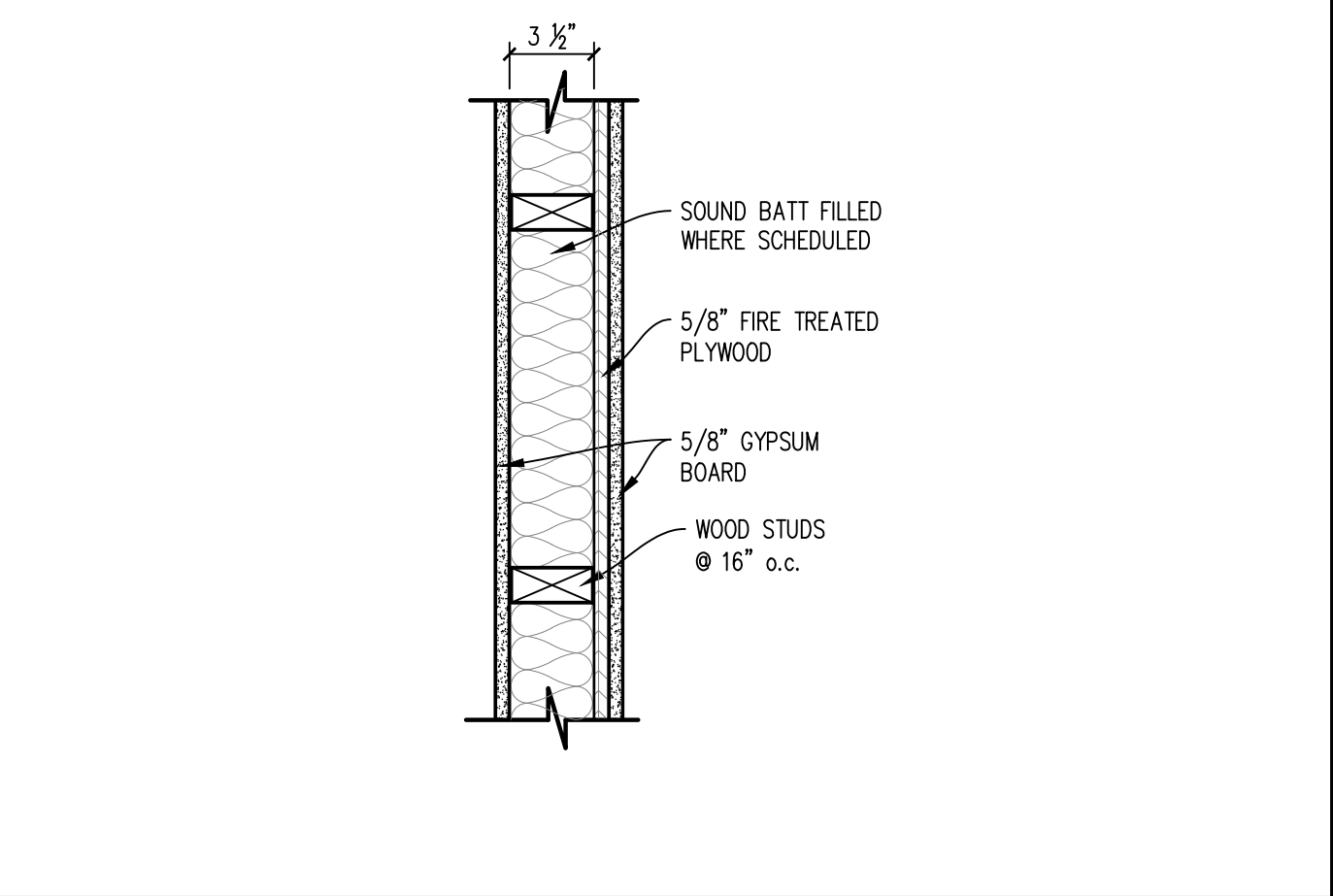
1-1/2" = 1'-0" TRANSACTION WINDOW 13



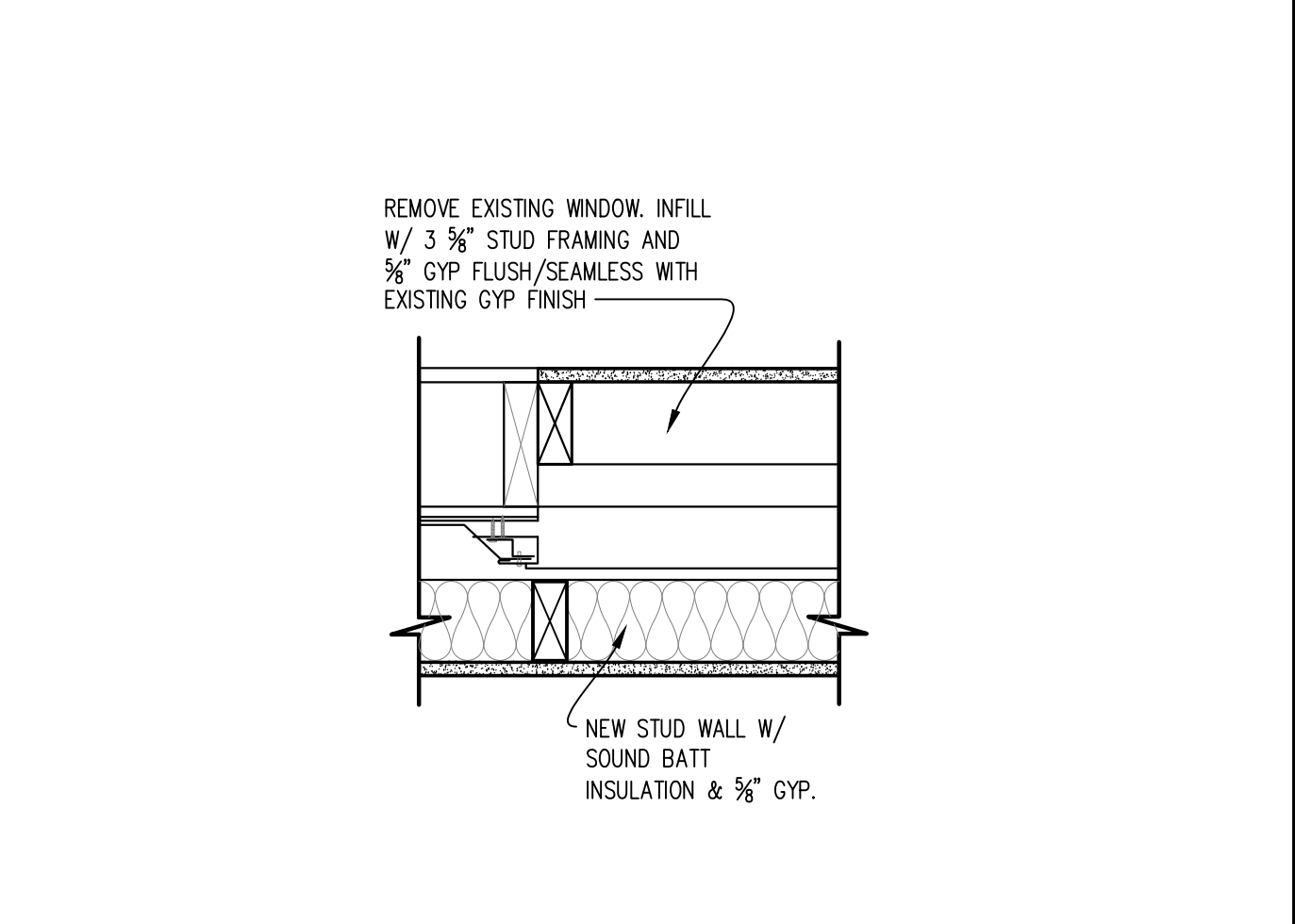
3/4" = 1'-0" HIGH / LOW CABINETS @ SINK 10



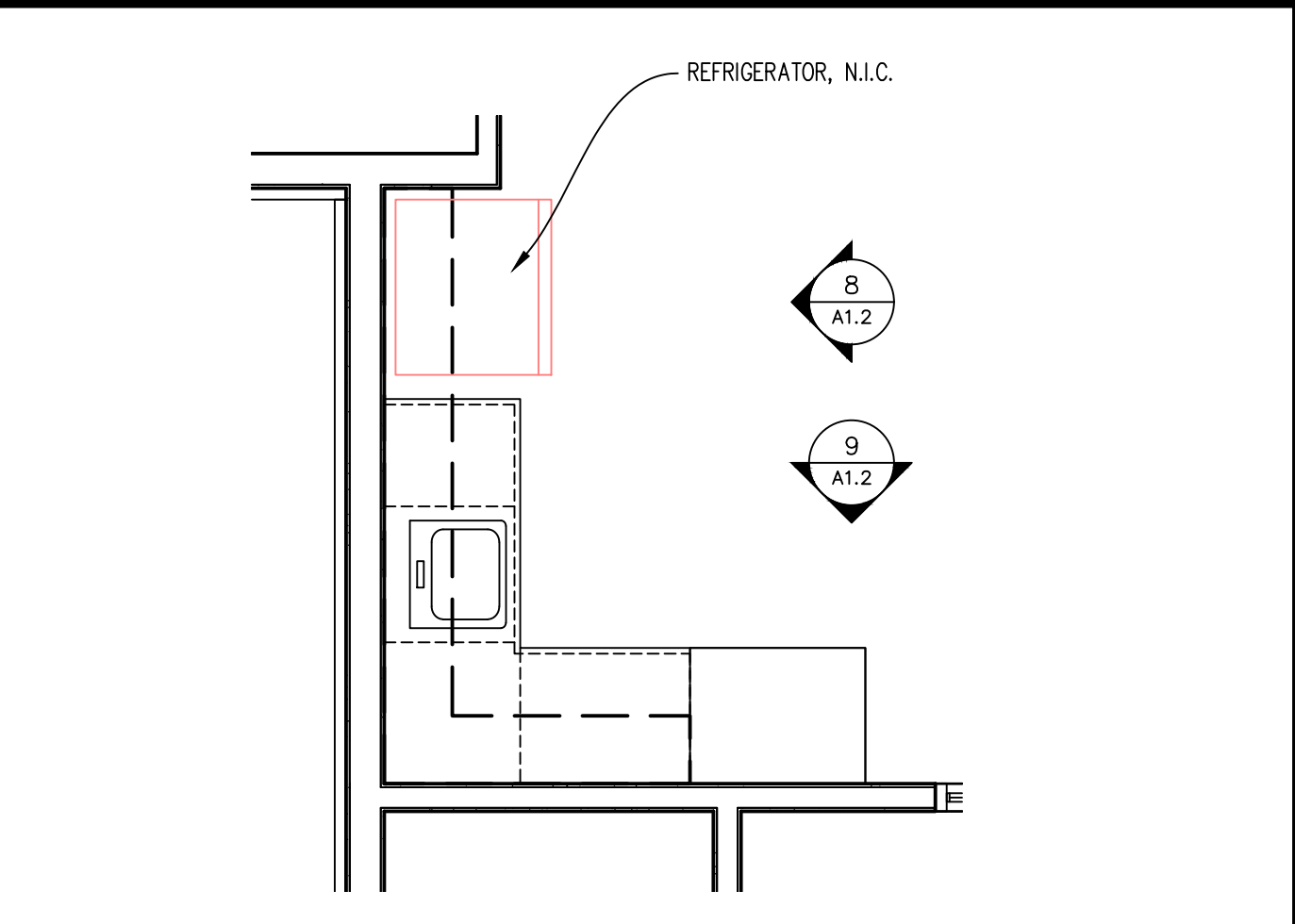
1 1/2" = 1'-0" WALL ADJACENT TO EXISTING 4



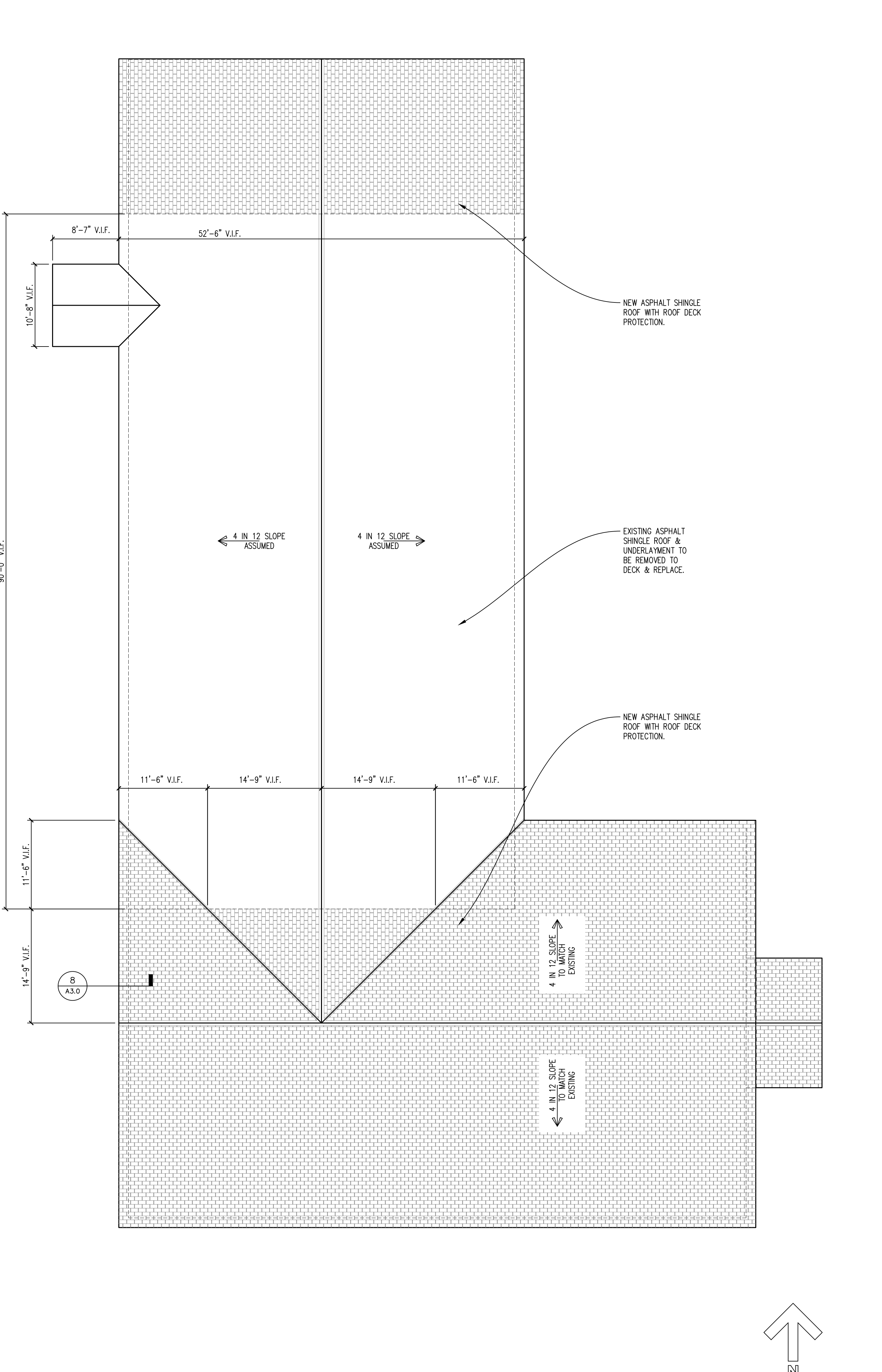
1 1/2" = 1'-0" FRAMING @ PLYWOOD 5



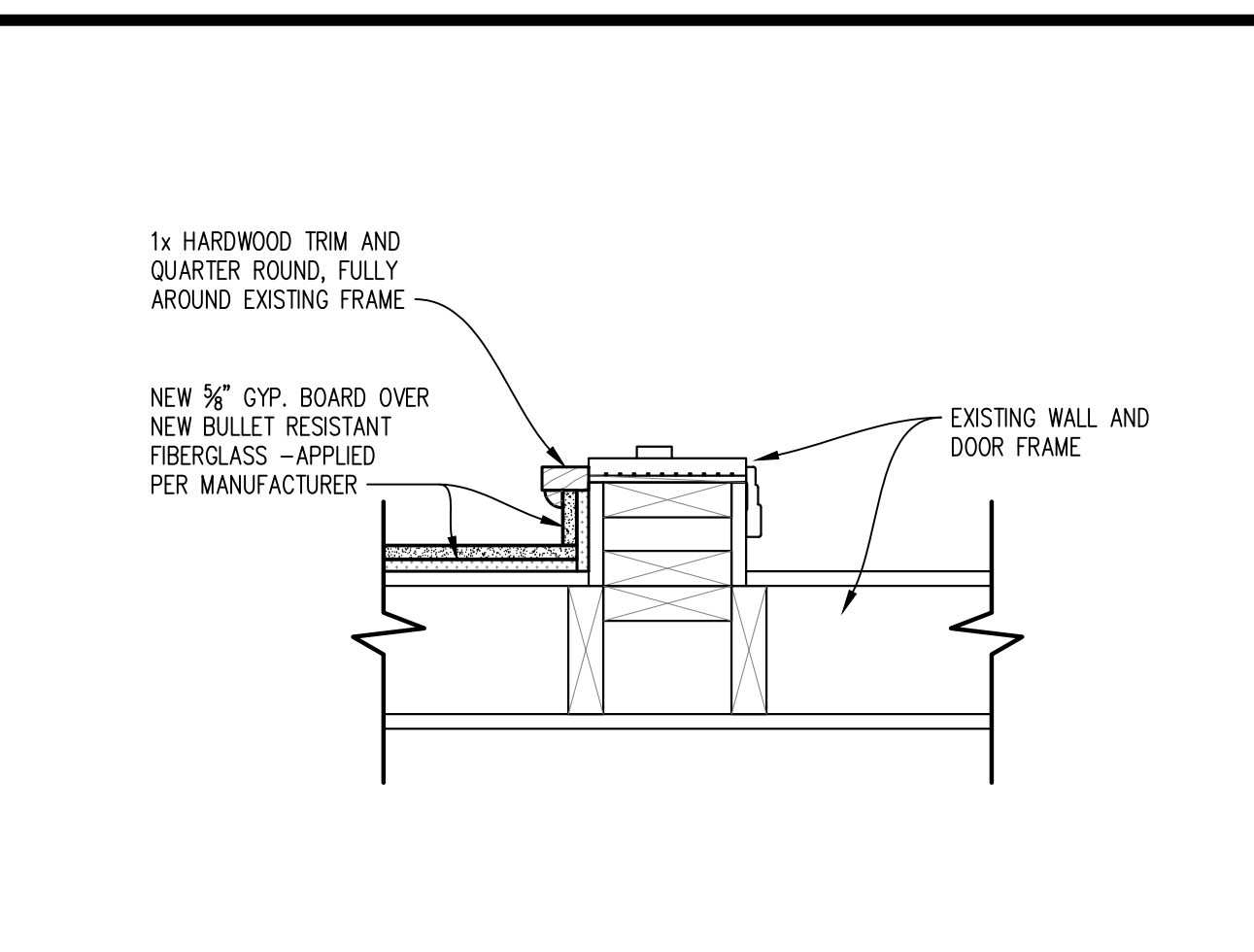
1 1/2" = 1'-0" WINDOW INFILL 6



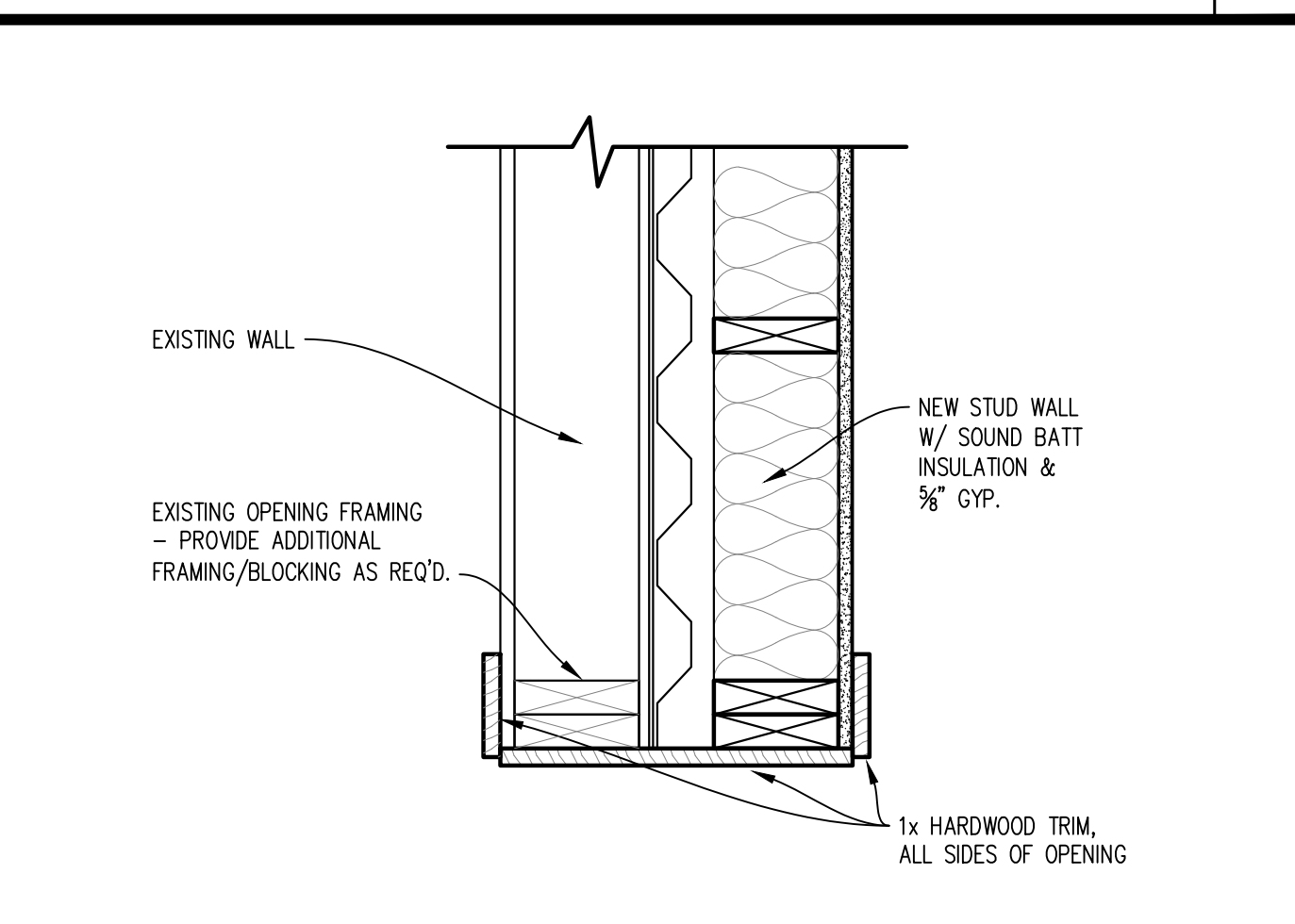
1/2" = 1'-0" CLERK MILLWORK 7



1/8" = 1'-0" ROOF PLAN 1



1 1/2" = 1'-0" FRAMING @ BULLET PANEL 3



1 1/2" = 1'-0" FRAMING @ WALL OPENING 2

NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS**  
**COURT ADDITION & RENOVATION**  
 301 PORTER INDUSTRIAL ROAD  
 CLARKSVILLE, ARKANSAS 72830

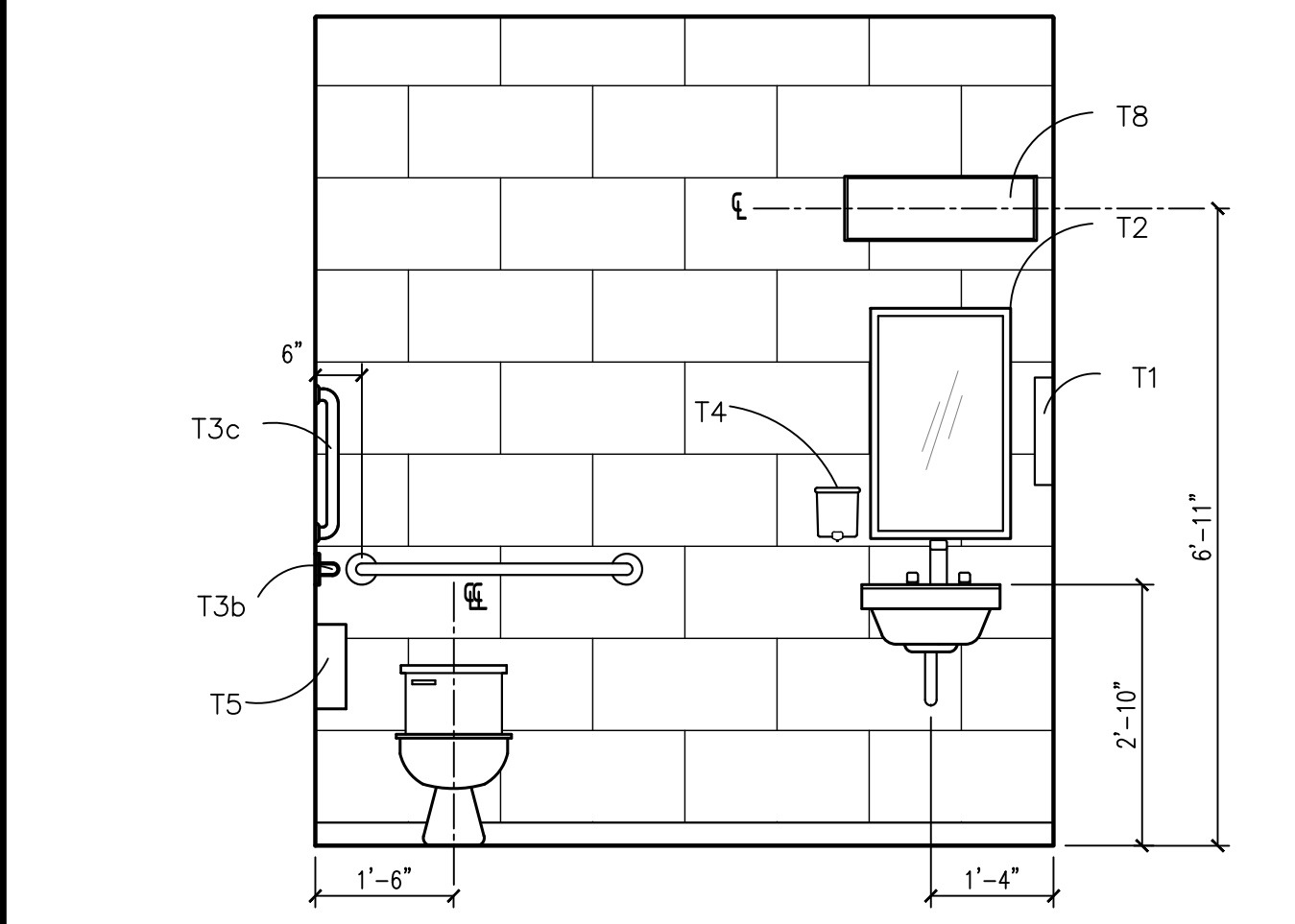
**Spirit Architecture**  
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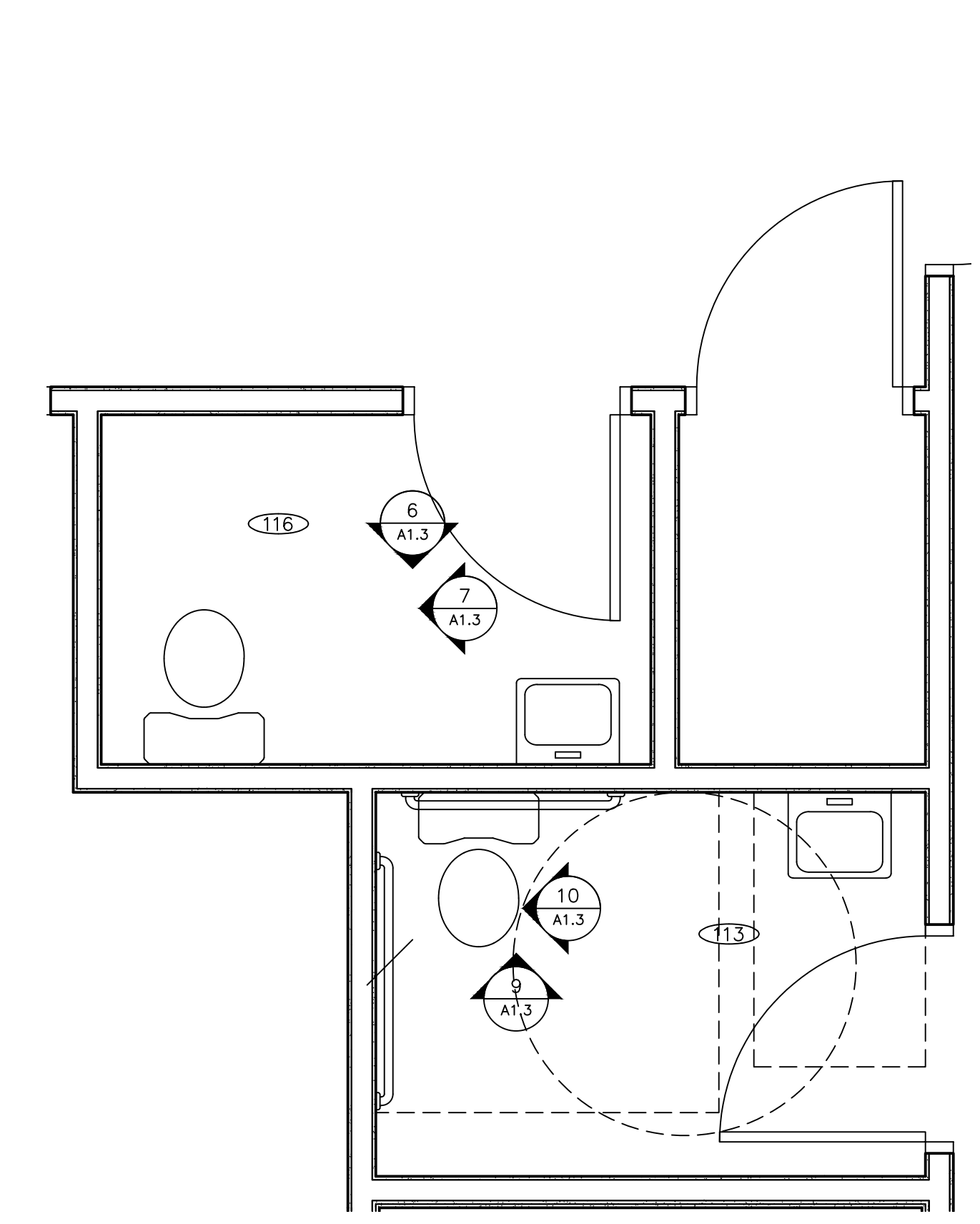
**SB SOUTH-BUILD**  
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**SEAL**  
 1/21/25  
 SHEET TITLE  
**ROOF PLAN AND DETAILS**  
 DATE  
 1/21/25  
 PROJECT NO.  
 24-009A  
 SHEET NO.  
**A1.2**  
 11 of 35

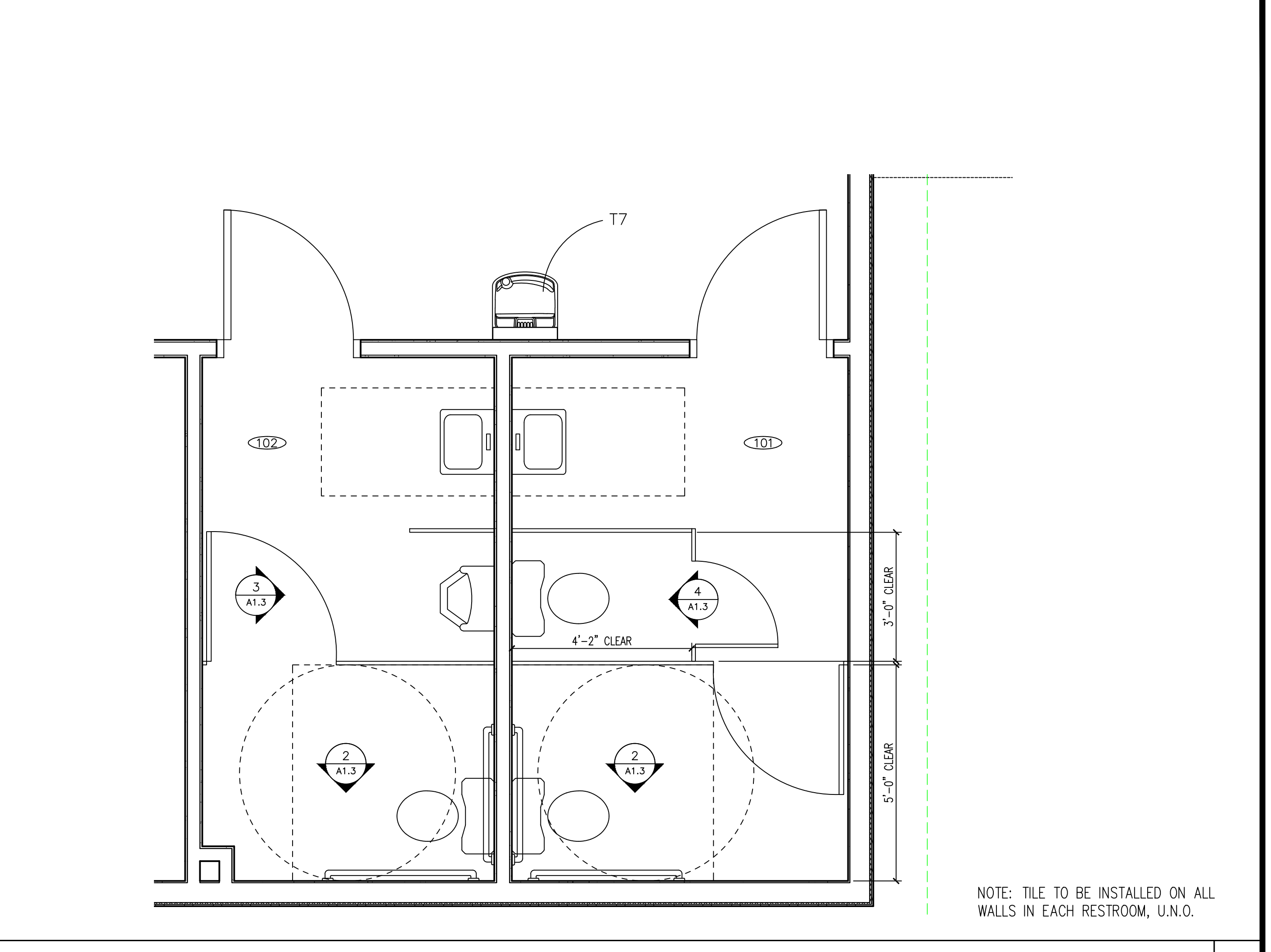




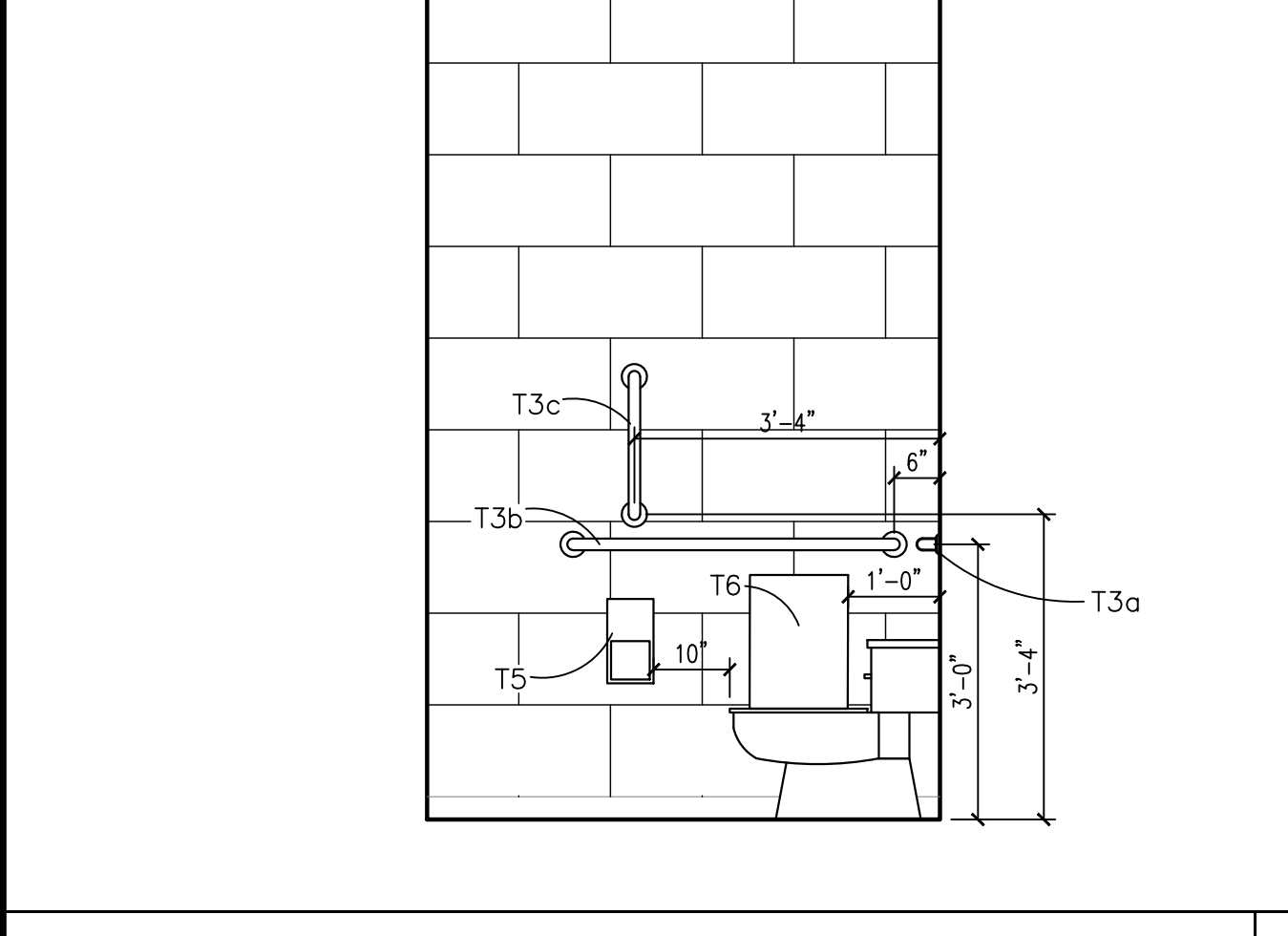
1/2"=1'-0" TOILET WET WALL 9



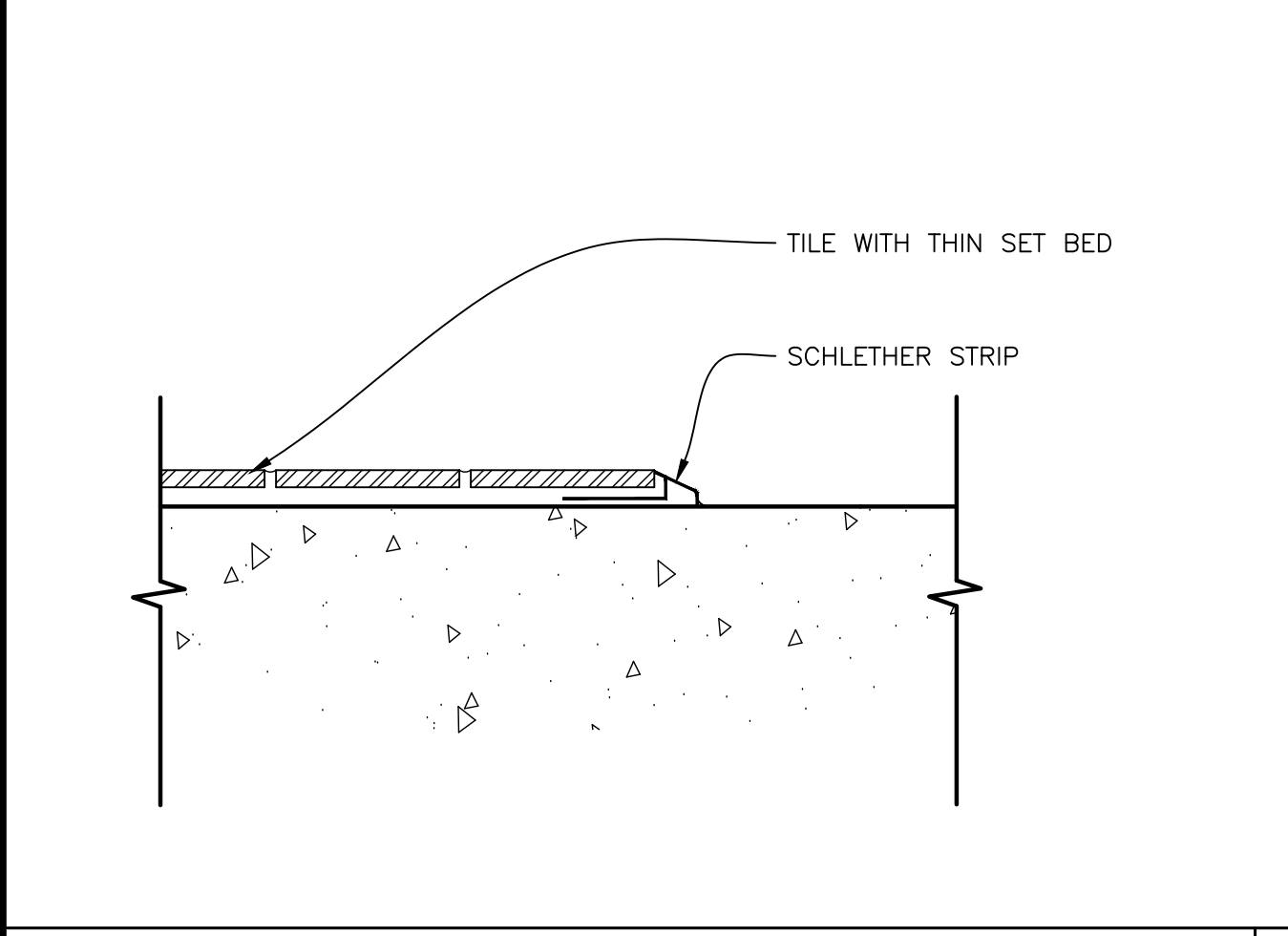
1/2"=1'-0" UNISEX TOILETS 113 & 116 5



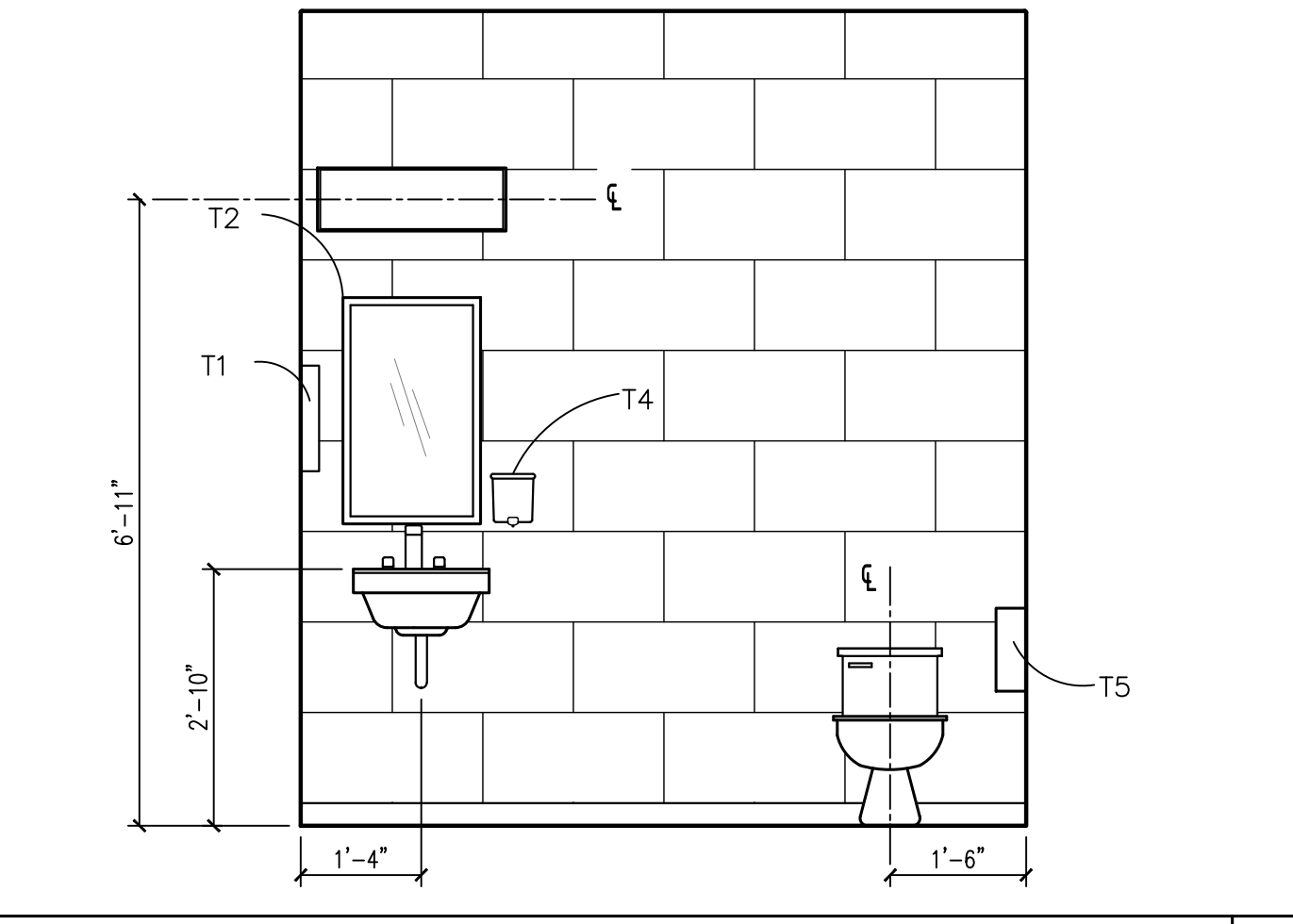
1/2"=1'-0" PUBLIC RESTROOMS 101 & 102 1



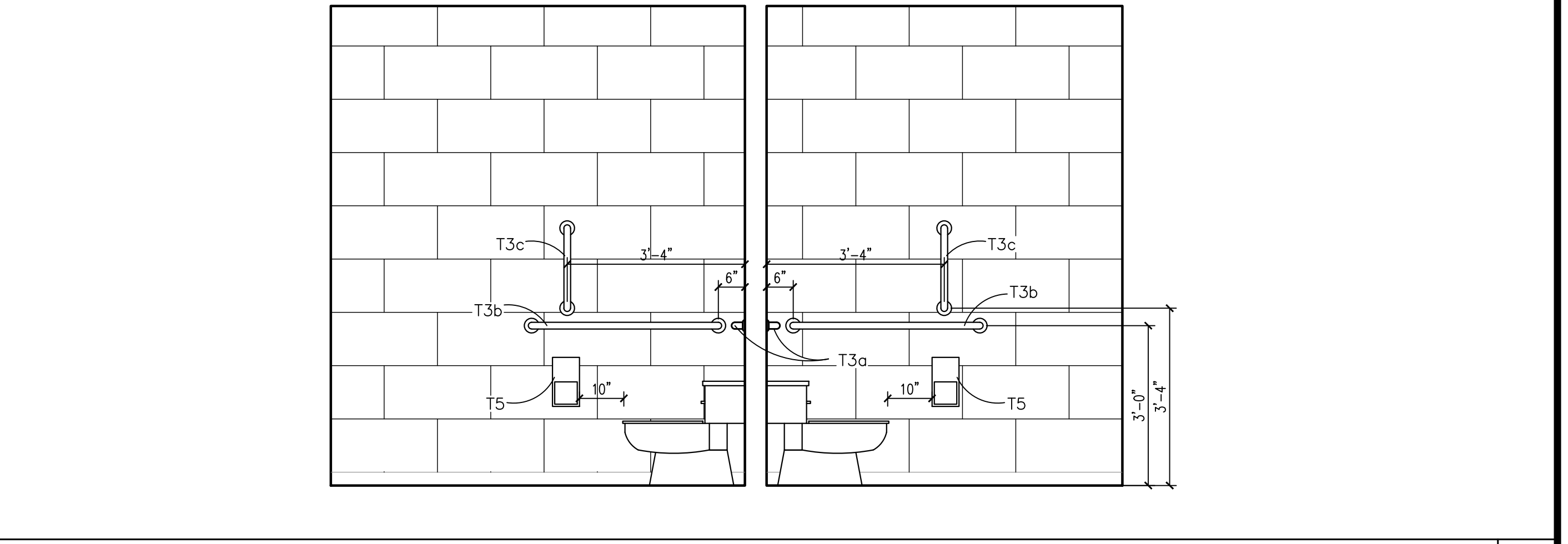
1/2/2"=1'-0" ACCESSIBLE TOILET - SIDE WALL 10



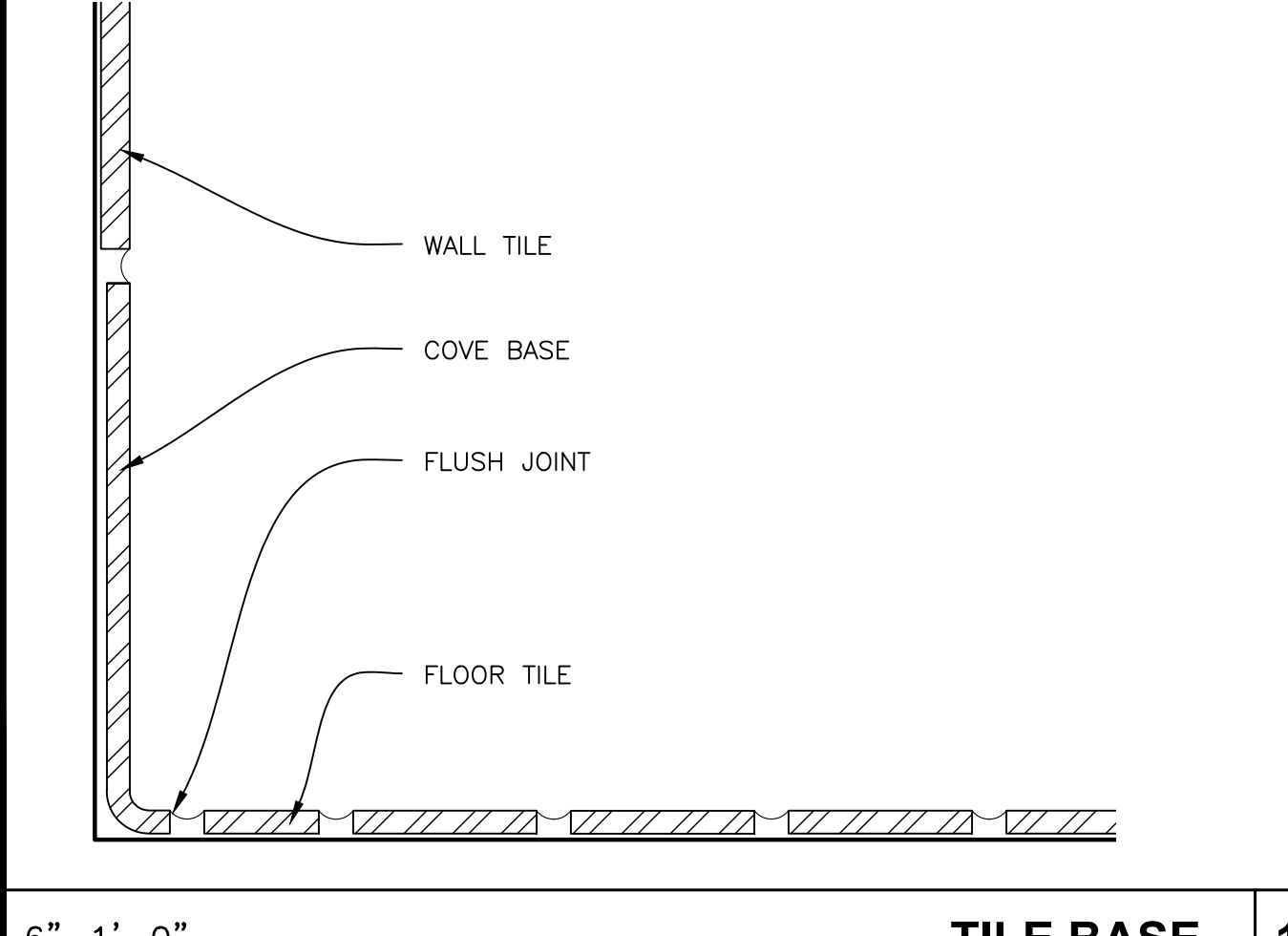
1-1/2"=1'-0" TILE TRANSITION 11



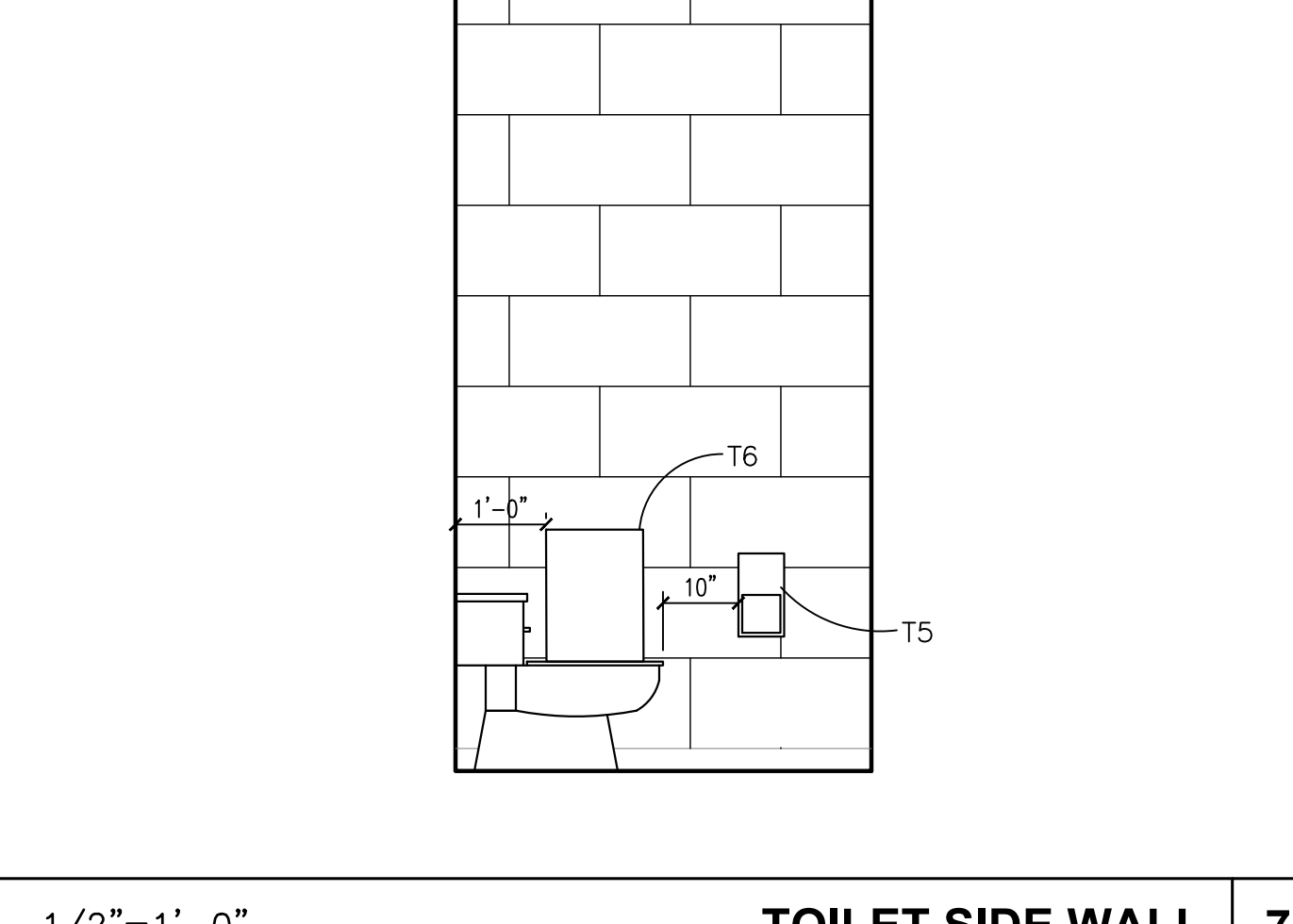
1/2"=1'-0" TOILET WET WALL 6



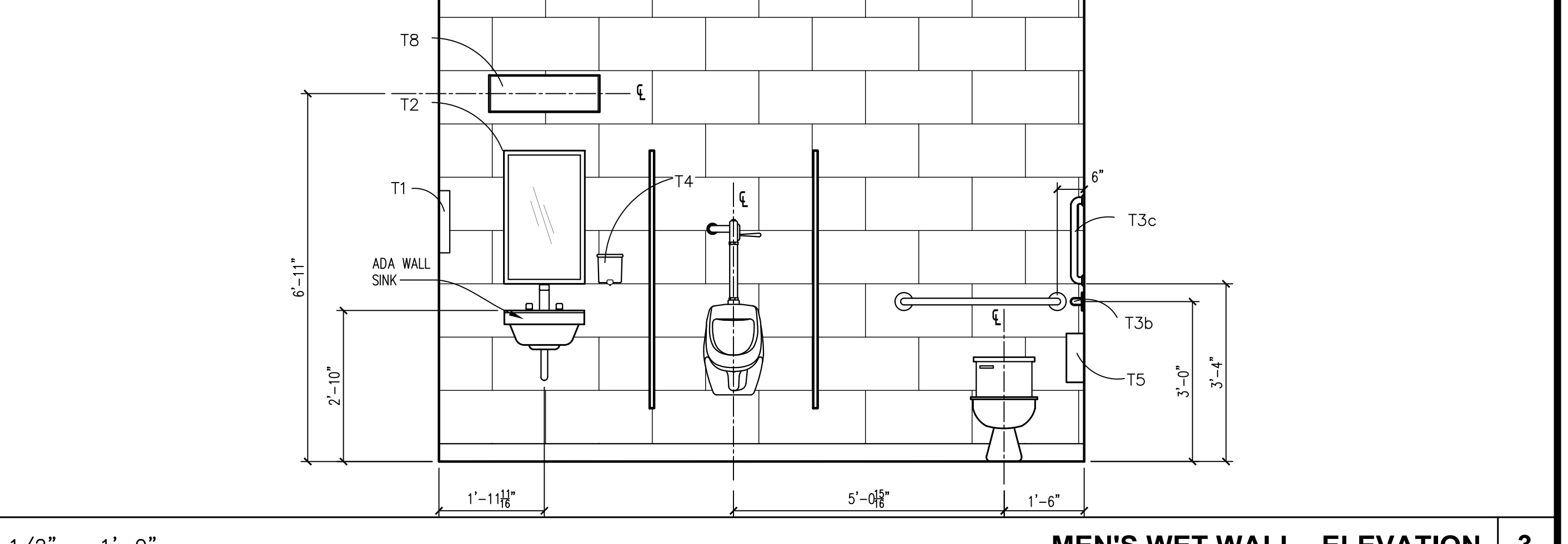
1/2"=1'-0" ACCESSIBLE TOILET - SIDE WALL 2



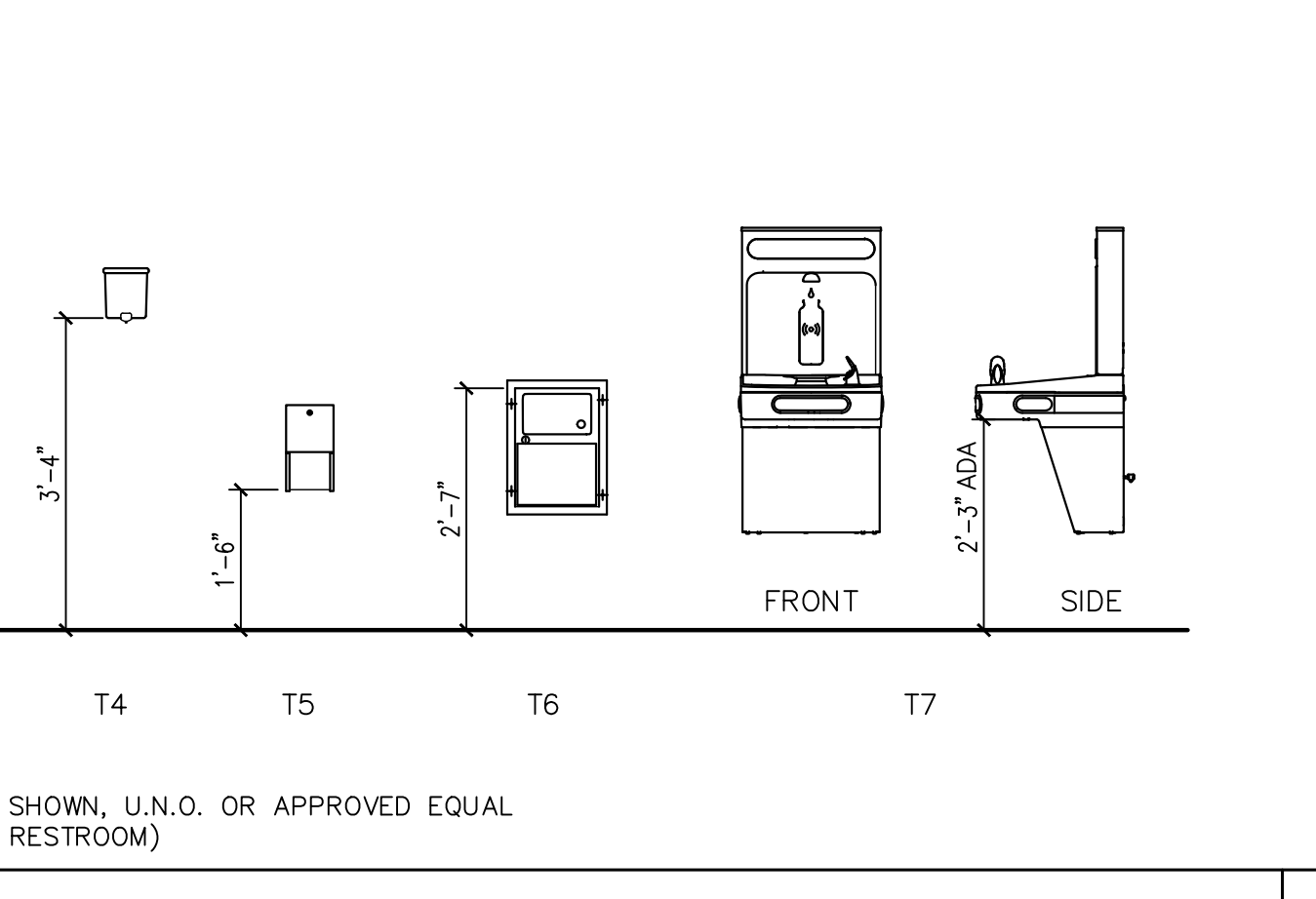
6"=1'-0" TILE BASE 12



1/2"=1'-0" TOILET SIDE WALL 7



1/2" = 1'-0" MEN'S WET WALL - ELEVATION 3

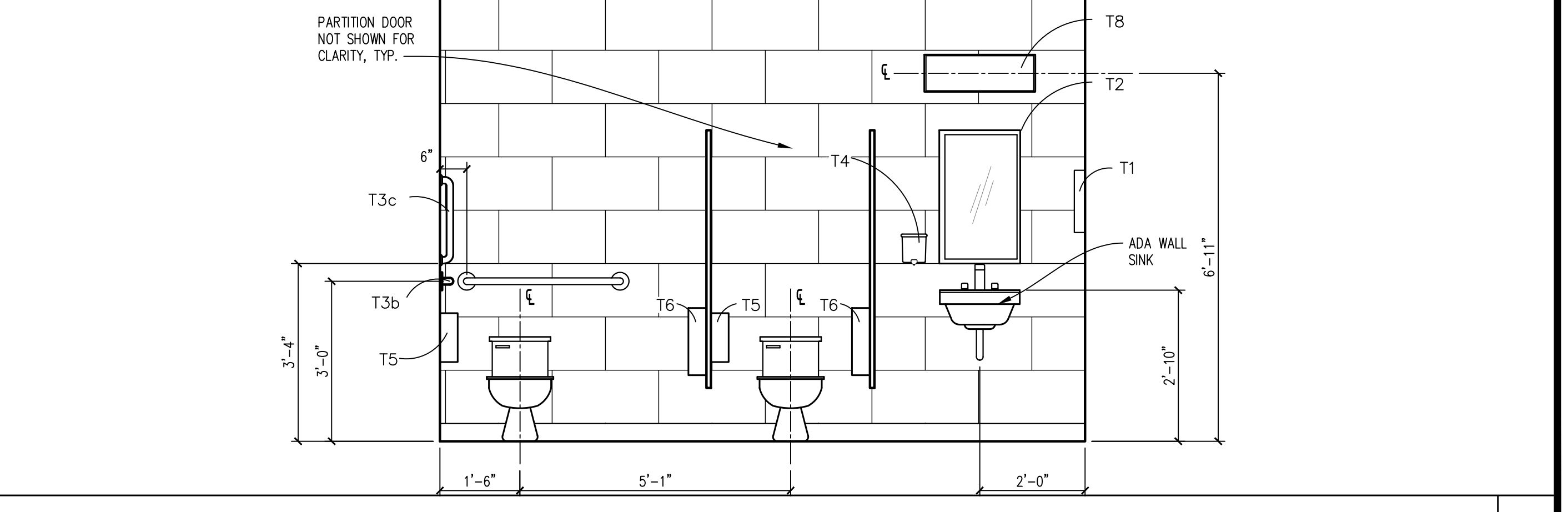


1/2" = 1'-0" TYPICAL ACCESSIBLE MOUNTING HEIGHTS 13

**ACCESSORIES LEGEND**

#	DESCRIPTION
T1	PAPER TOWEL DISPENSER - BOBRICK B-262
T2	MIRROR W/FRAME (18"X30") BOBRICK B-165
T3a	GRAB BAR-36" BOBRICK B-6897x36
T3b	GRAB BAR-42" BOBRICK B-6897x42
T3c	GRAB BAR-18" BOBRICK B-6897x18
T4	LIQUID SOAP DISPENSER BOBRICK B-1142
T5	TOILET DOUBLE TISSUE DISPENSER BOBRICK B-2888
T6	SANITARY NAPKIN DISPENSER BOBRICK B-254
T7	COMBO DRINKING FOUNTAIN - SEE PLUMBING
T8	LIGHT SCENCE - SEE ELECTRICAL

NTS ACCESSORIES LEGEND 8



1/2" = 1'-0" WOMEN'S WET WALL - ELEVATION 4

PLOT DATE: 1/31/2025

NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**

301 PORTER INDUSTRIAL ROAD  
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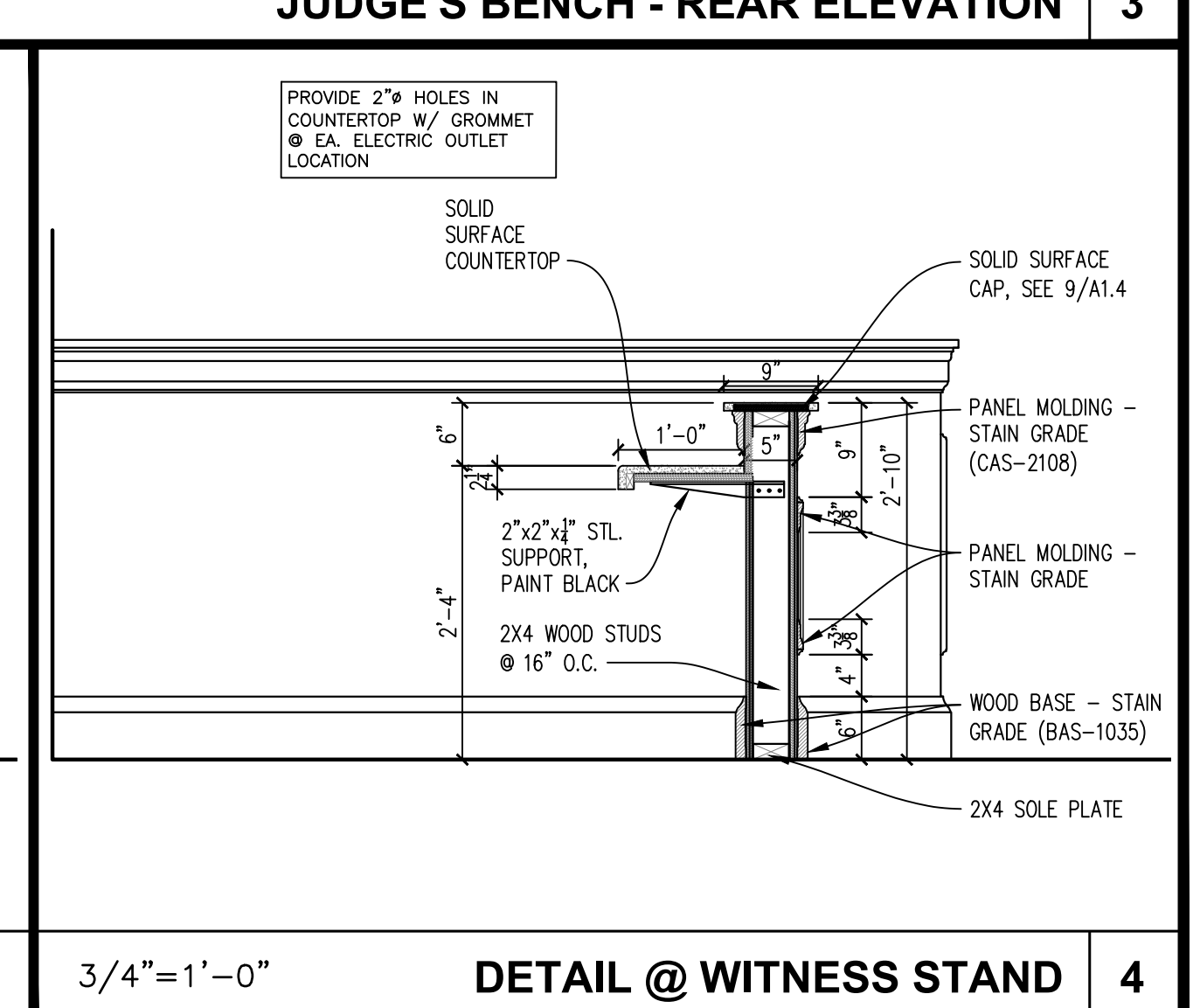
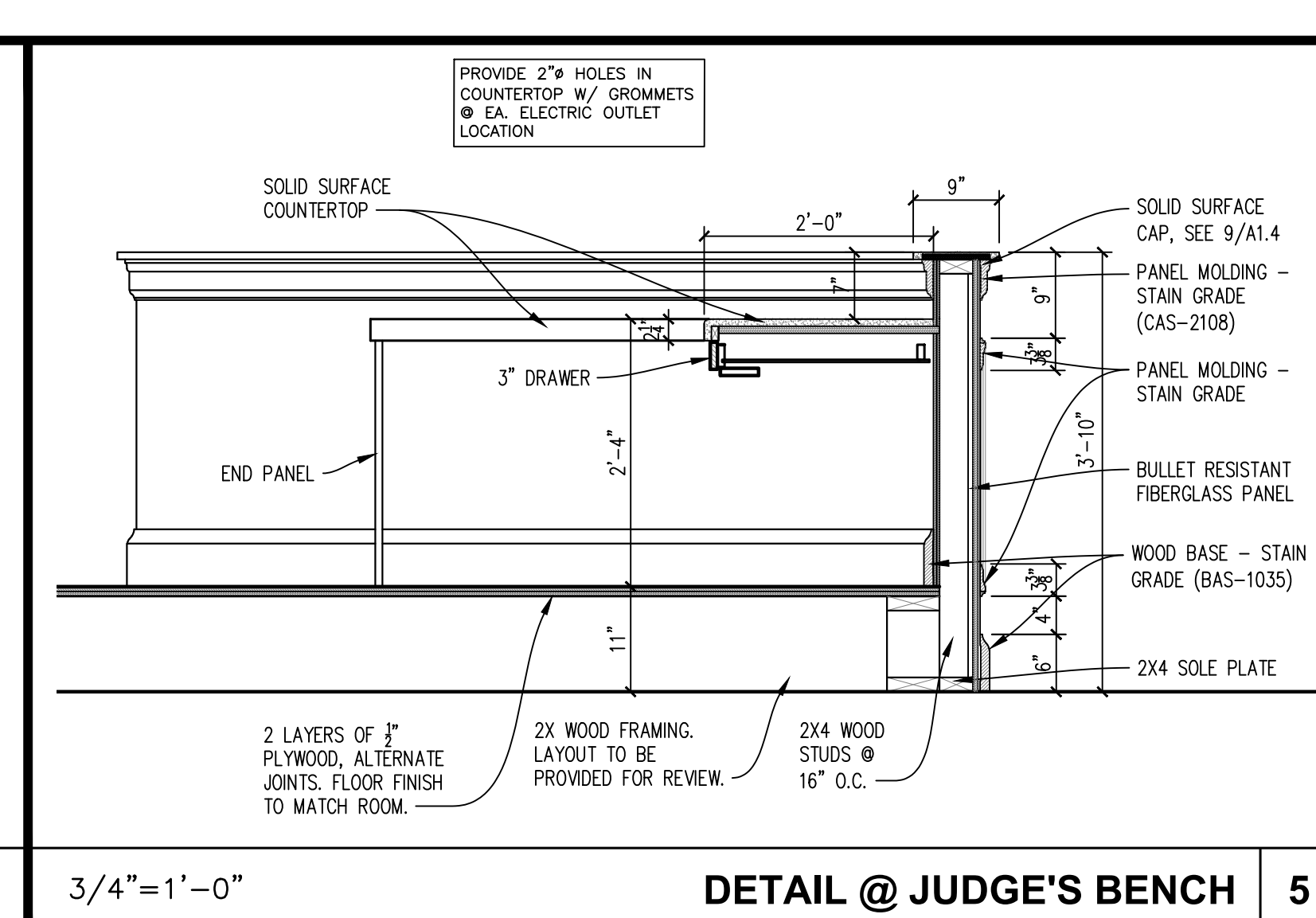
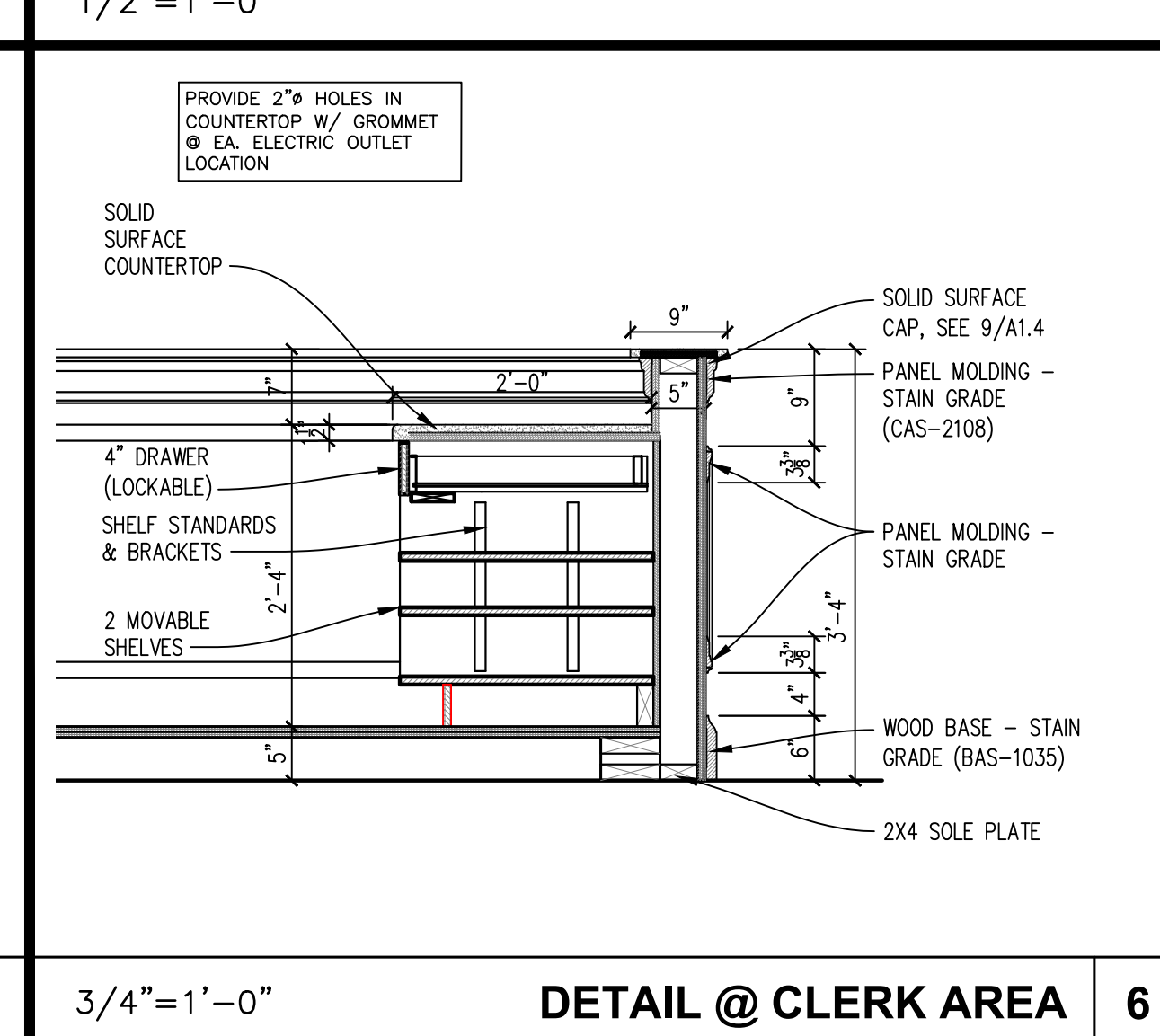
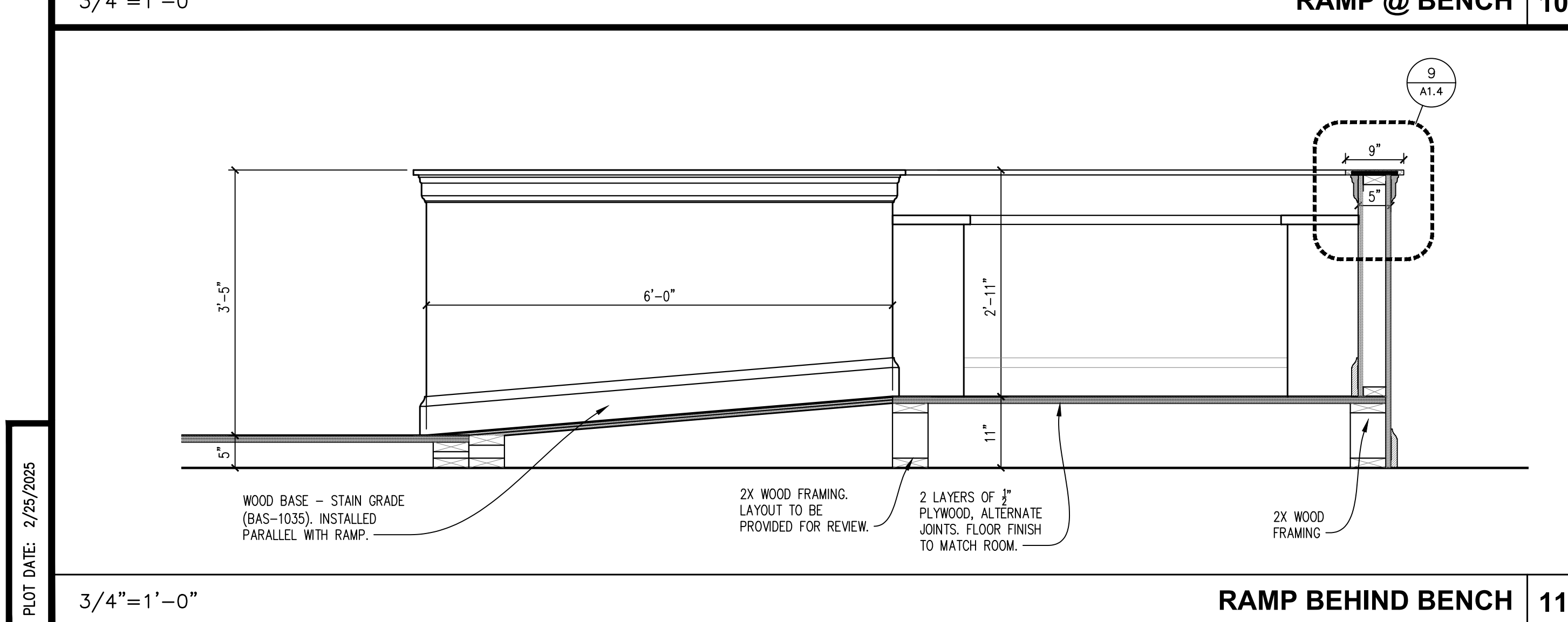
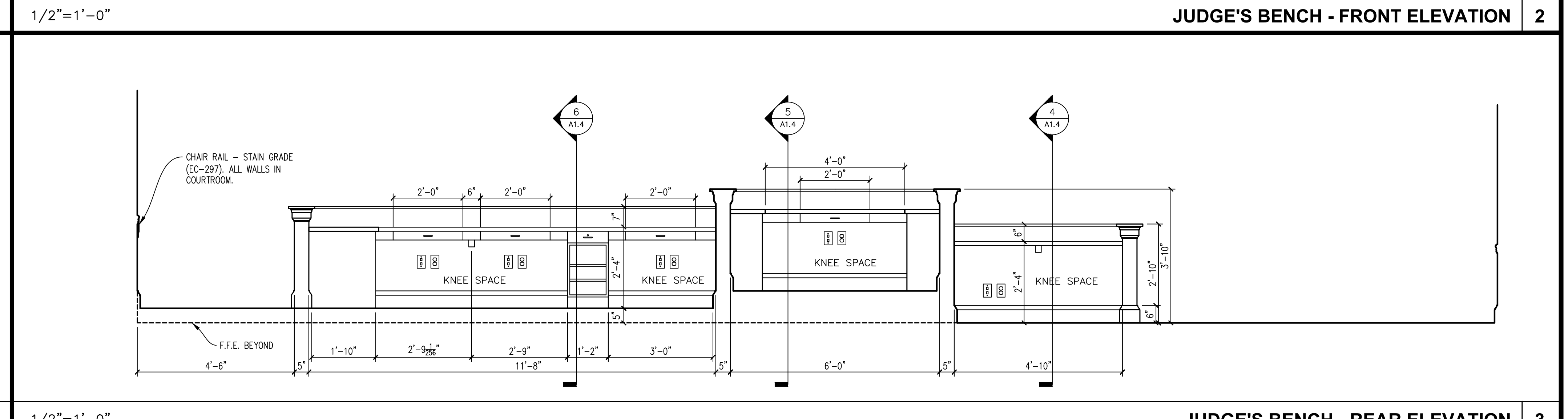
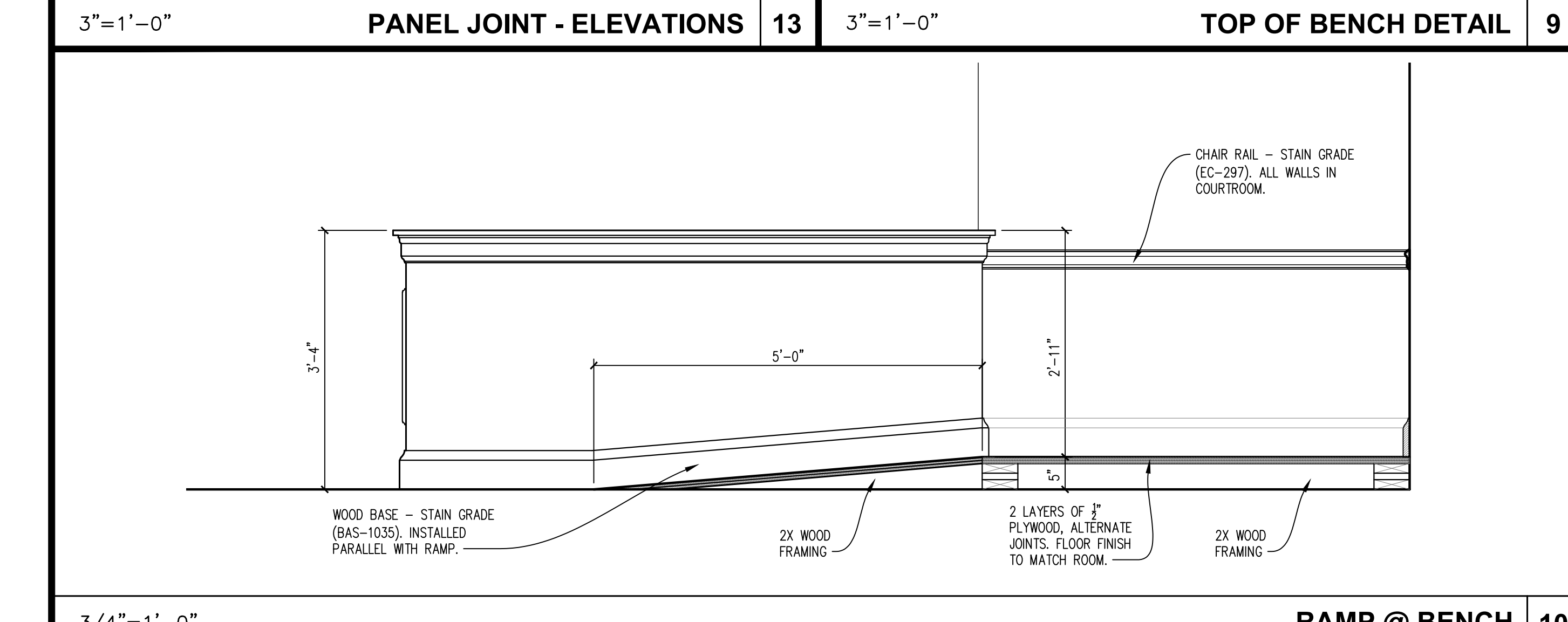
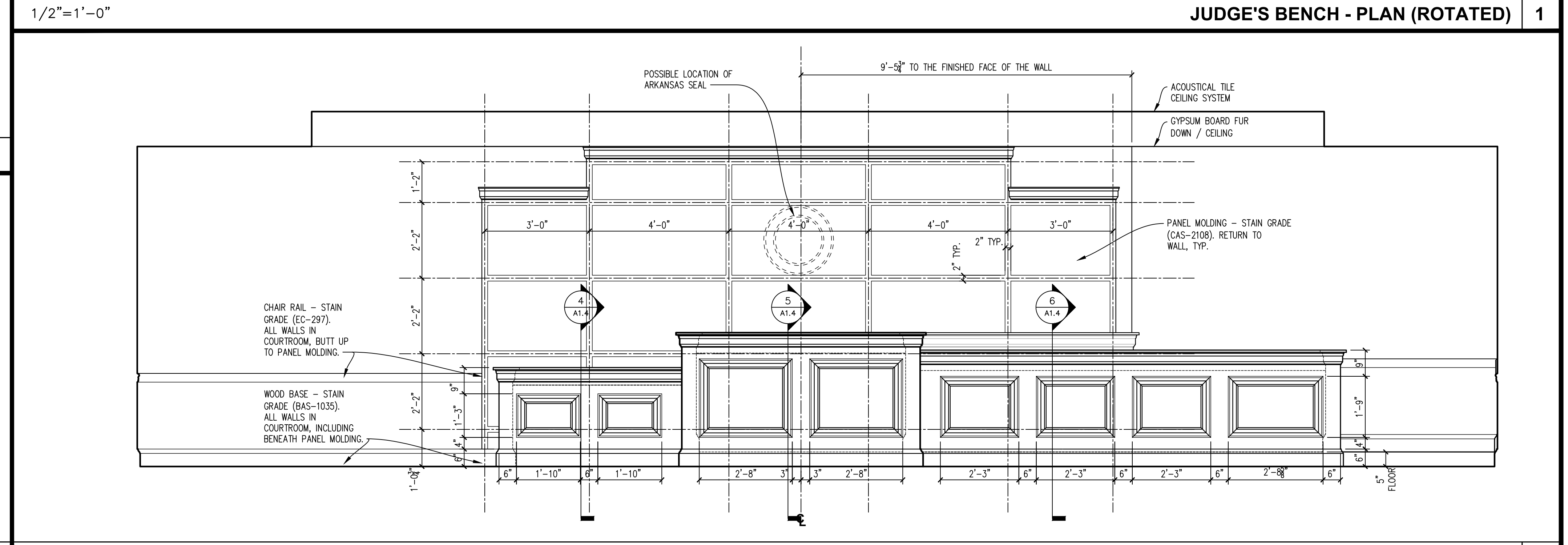
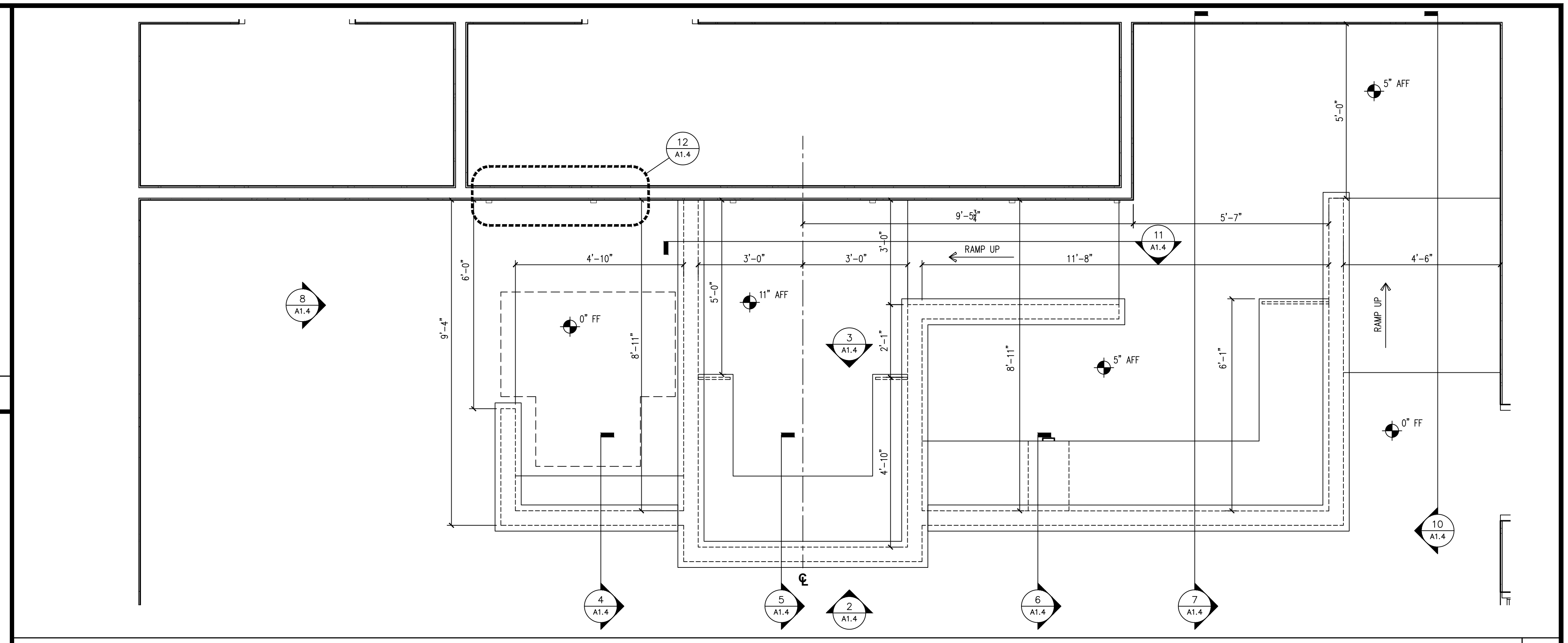
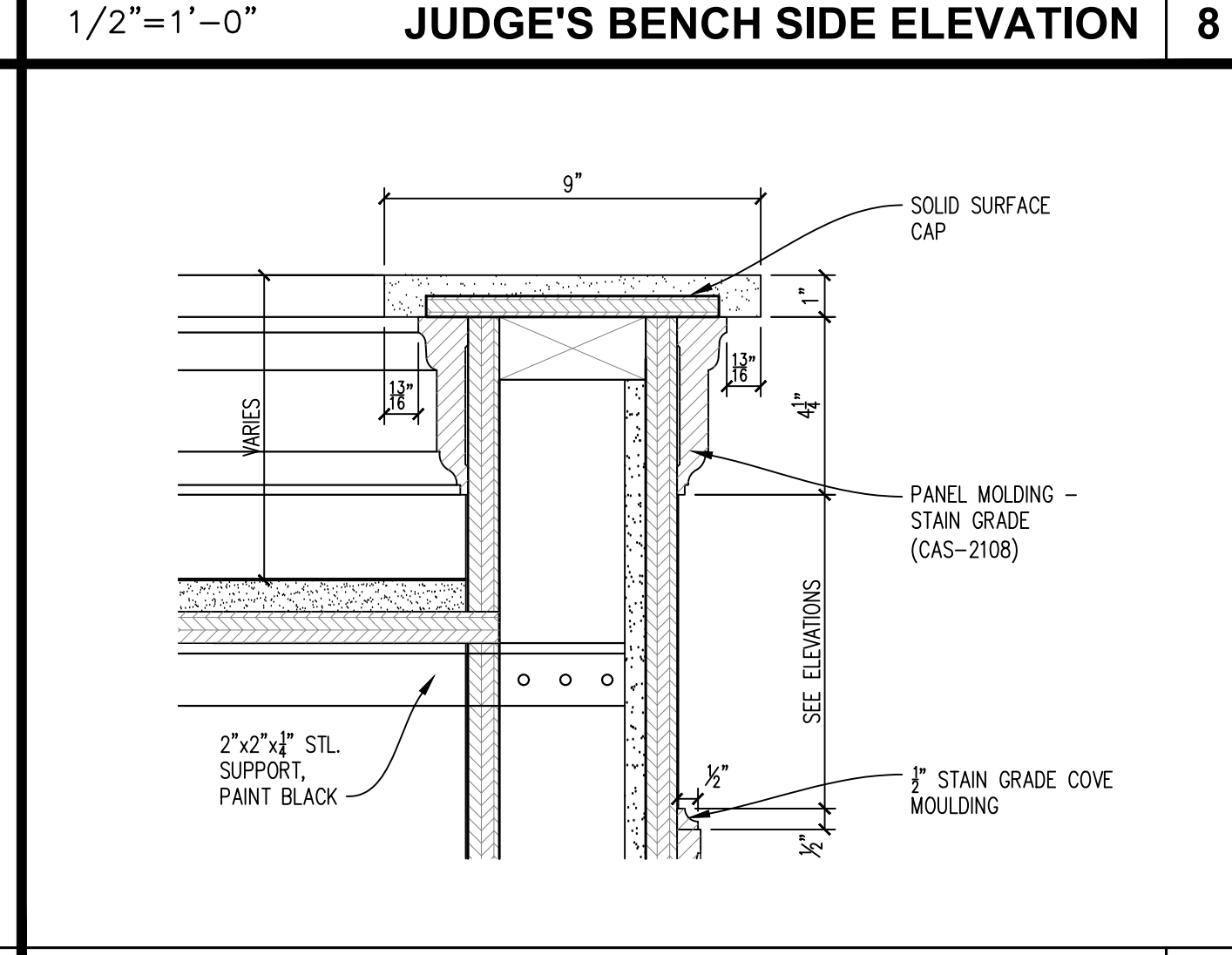
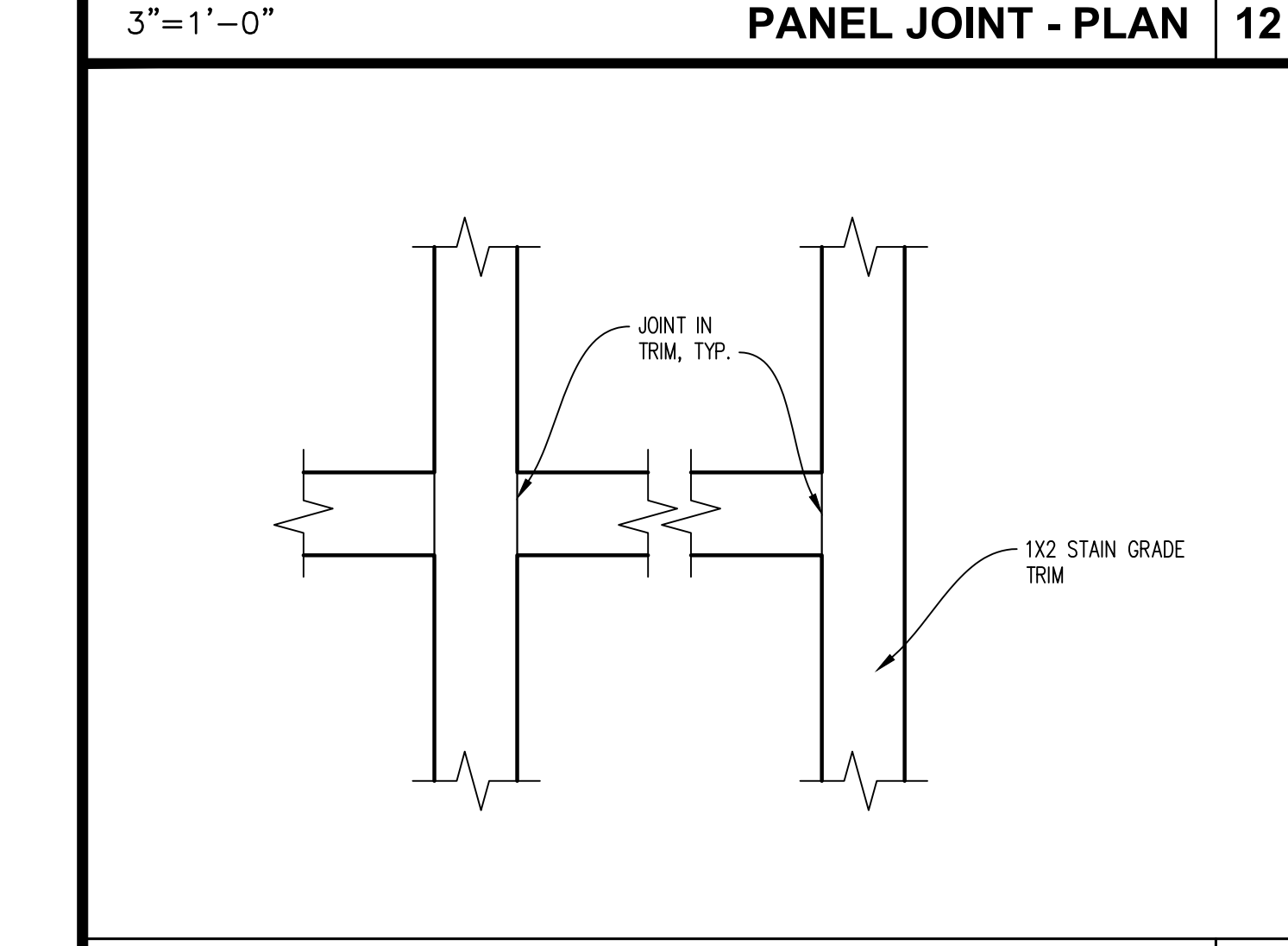
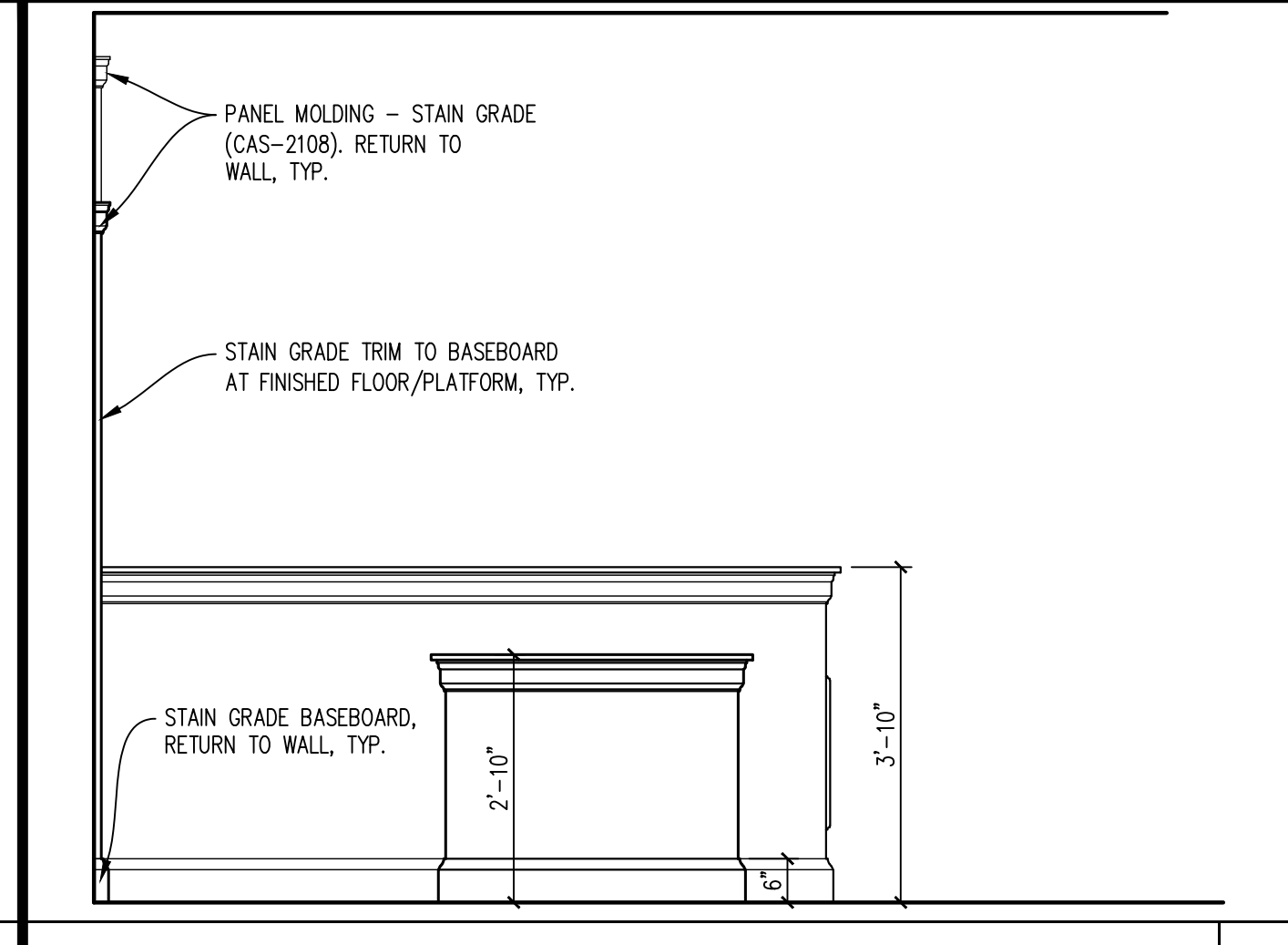
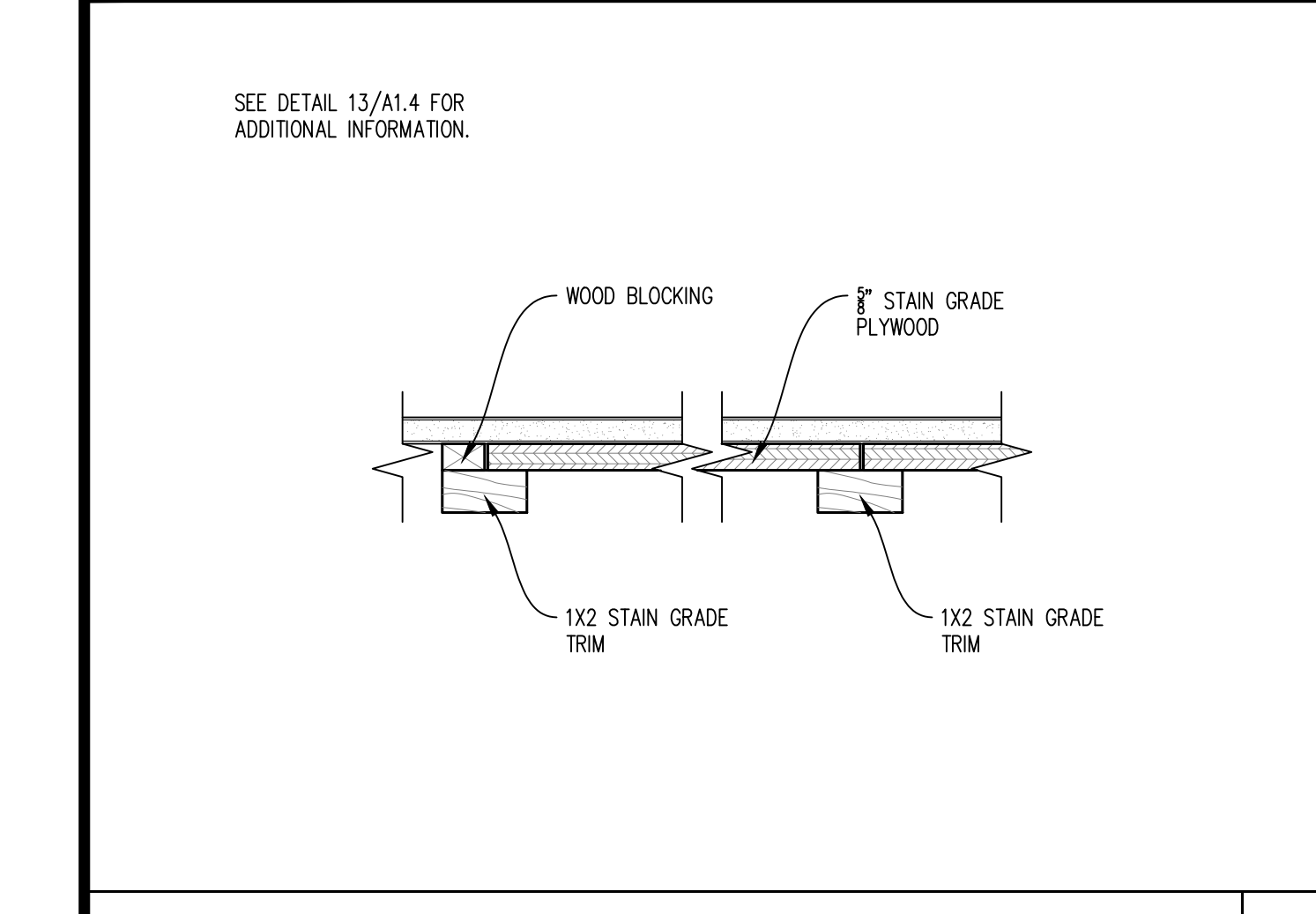
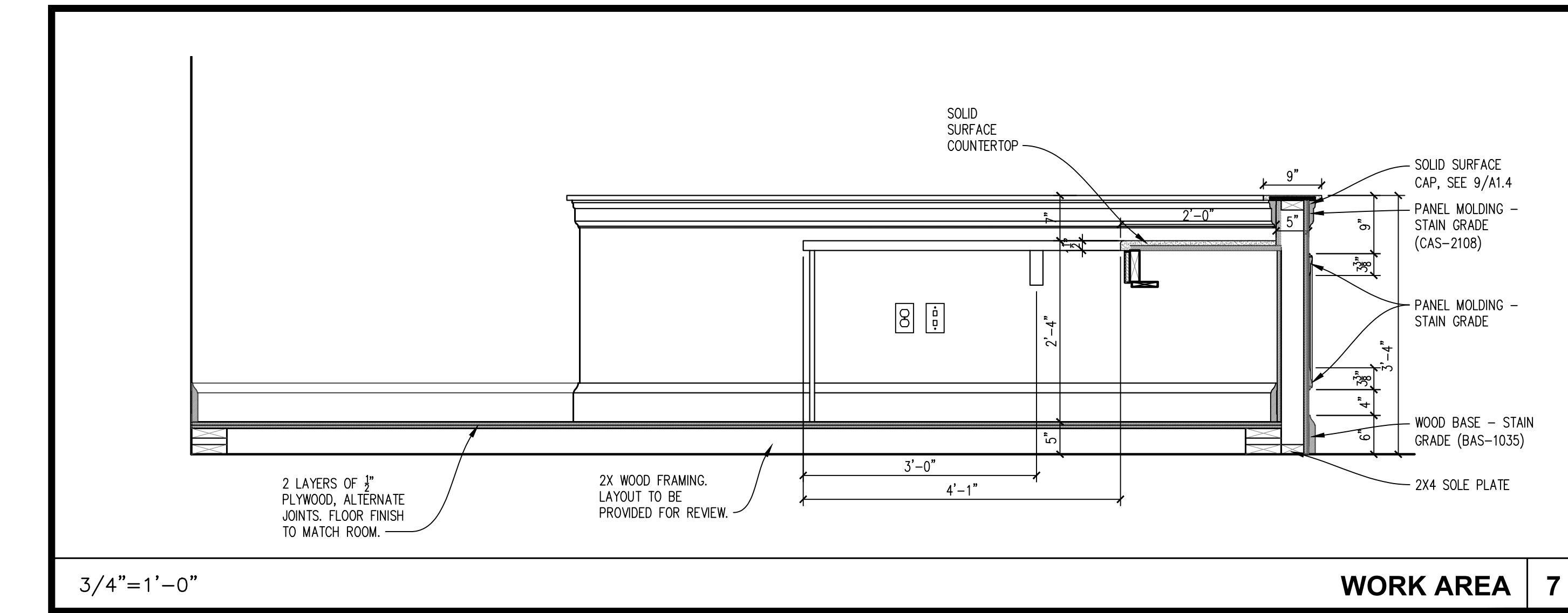
**Smith-Doyle Contractors, Inc.**  
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SHEET TITLE	TOILET PLANS AND DETAILS
DATE	1/21/25
PROJECT NO.	24-009A
SHEET NO.	A1.3





NO. DATE REVISION

**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**

301 PORTER INDUSTRIAL ROAD  
CLARKSVILLE, ARKANSAS 72830

**Spirit Architecture**  
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1000 Highway 101, LLC  
1000 Highway 101, LLC  
1000 Highway 101, LLC

**Smith-Doyle Contractors, Inc.**  
Construction Management  
1000 Highway 101, LLC  
1000 Highway 101, LLC  
1000 Highway 101, LLC  
1000 Highway 101, LLC

**SB SOUTH-BUILD**  
Consultant

**SEAL**  
No. 30210  
1/21/25  
ARKANSAS

**SHEET TITLE**  
COURTROOM  
PLAN AND  
DETAILS

**DATE**  
1/21/25

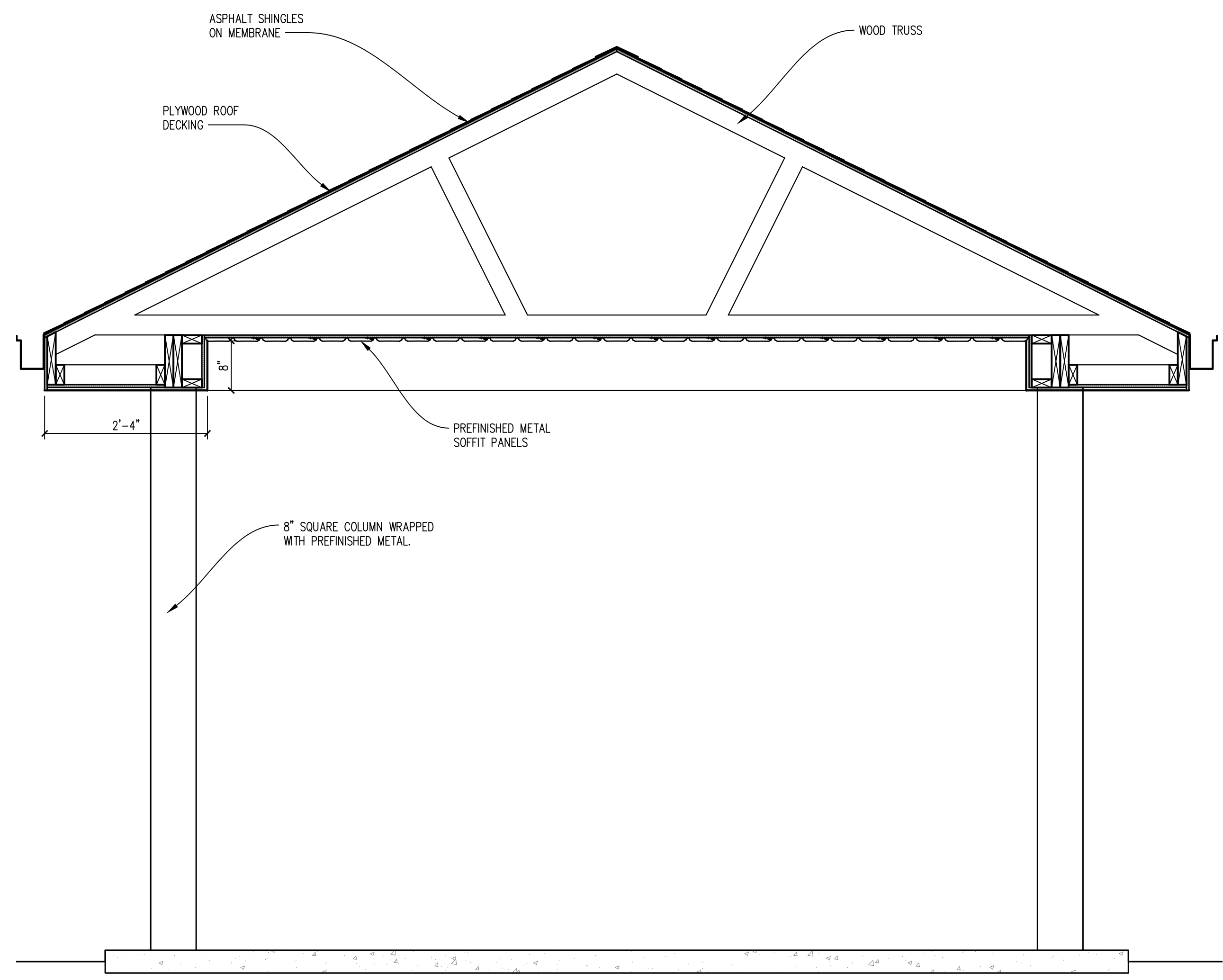
**PROJECT NO.**  
24-009A

**SHEET NO.**  
A1.4

13 of 35

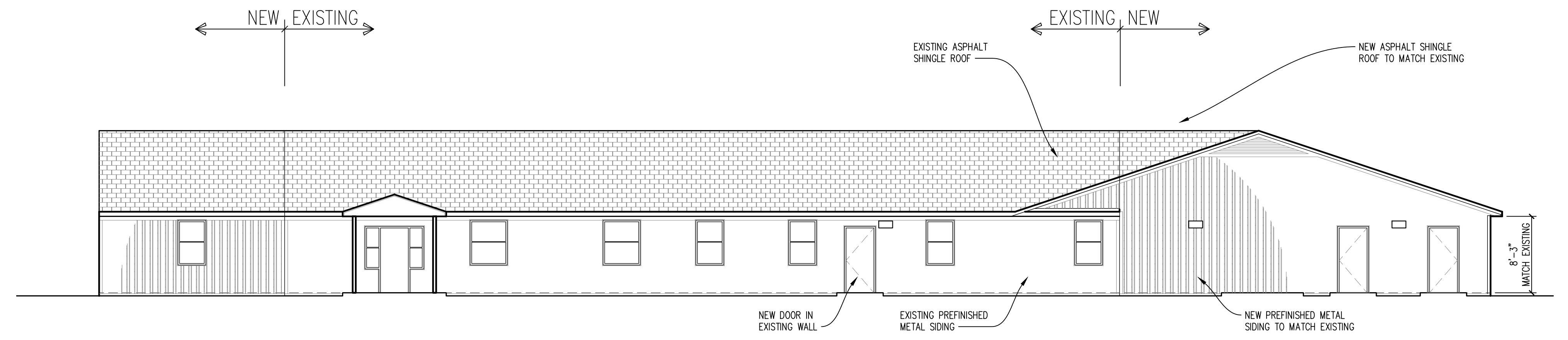
PLOT DATE: 2/22/2025





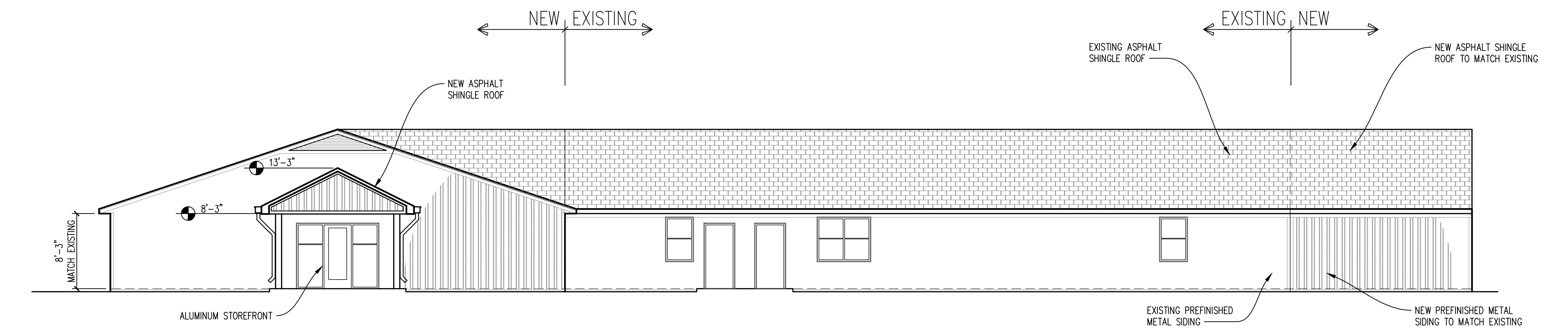
3/4"=1'-0"

**BUILDING SECTION @ ENTRY CANOPY 7**



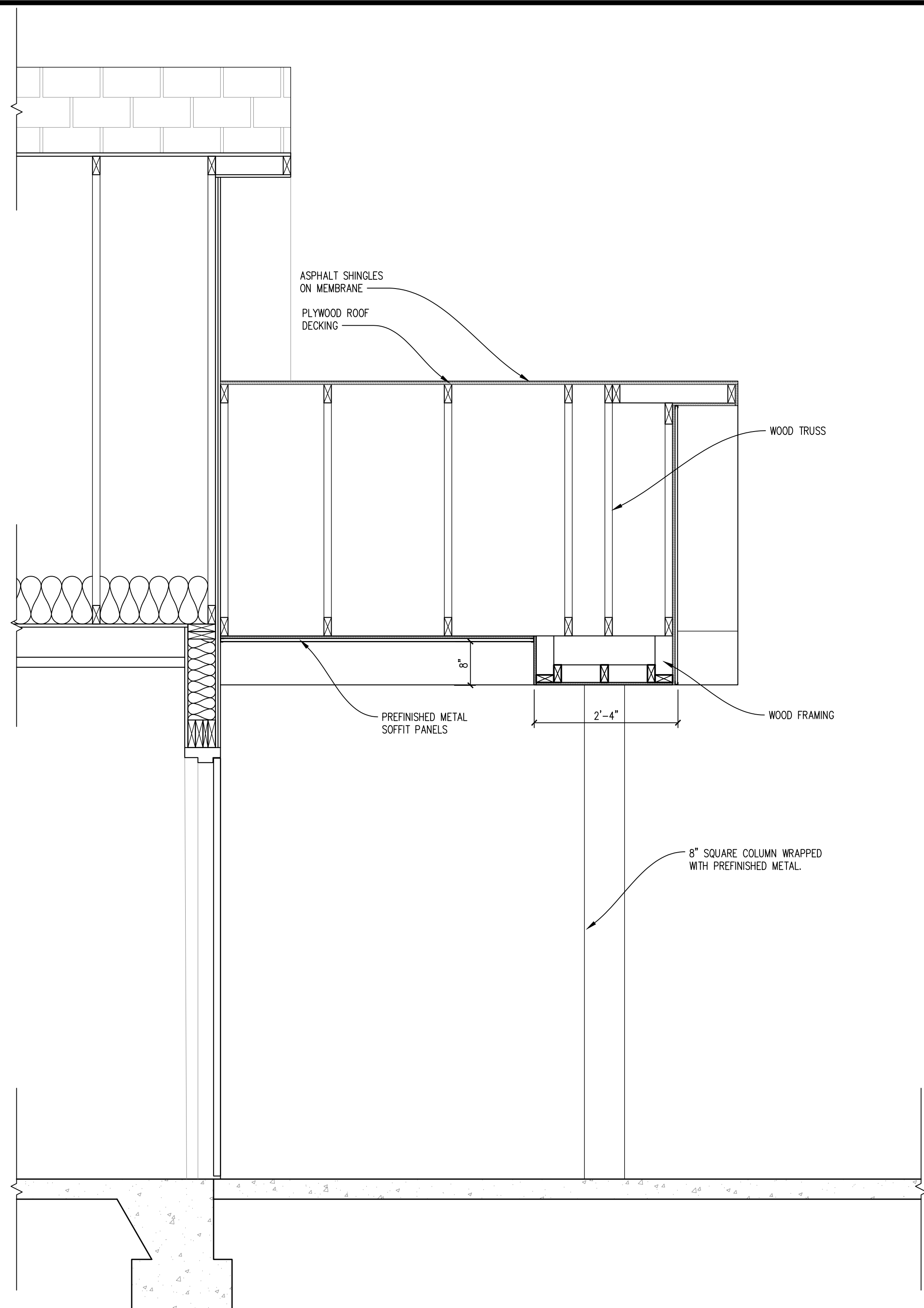
1/8"=1'-0"

**WEST ELEVATION 1**



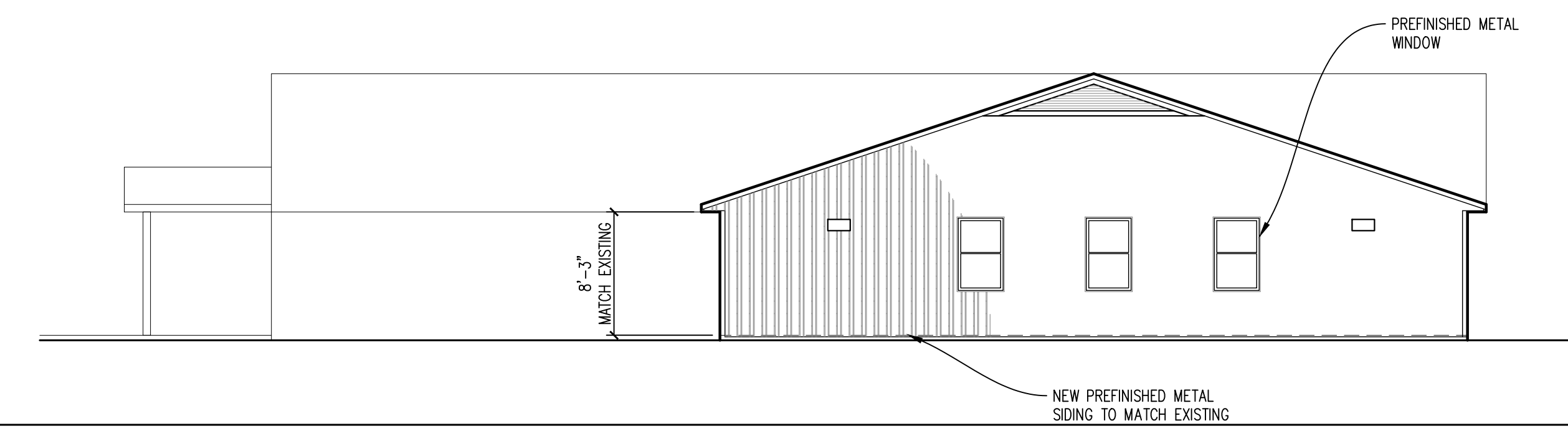
1/8"=1'-0"

**EAST ELEVATION 2**



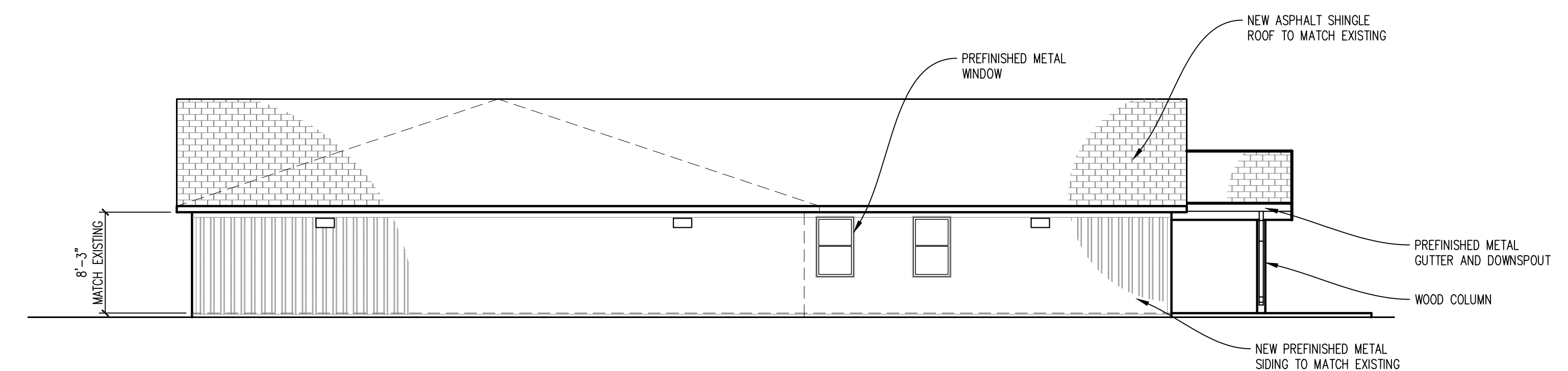
3/4"=1'-0"

**ENTRY CANOPY SECTION 8**



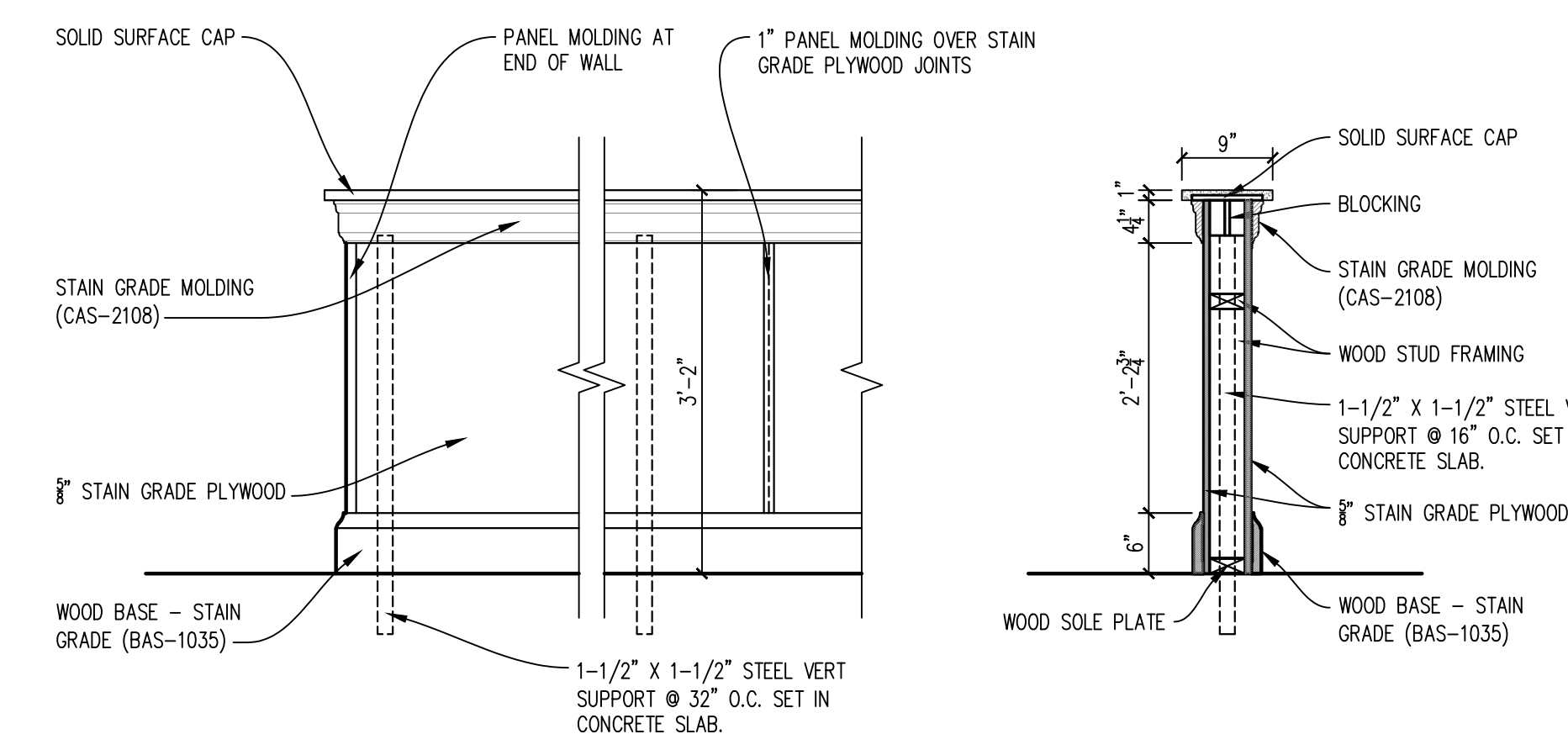
1/8"=1'-0"

**NORTH ELEVATION 3**



1/8"=1'-0"

**SOUTH ELEVATION 4**



**DETAIL 6**

3/4"=1'-0"

**GALLERY BAR 5**

PLOT DATE: 2/22/2025

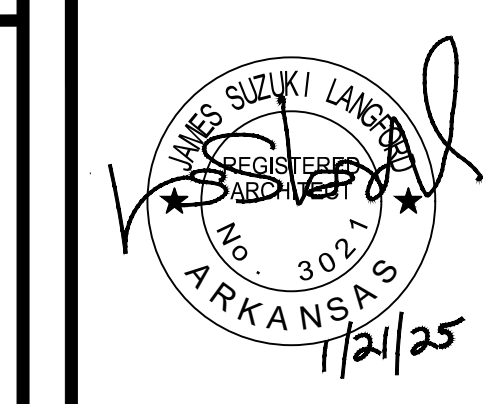
NO.	DATE	REVISION

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 301 PORTER INDUSTRIAL ROAD  
 CLARKSVILLE, ARKANSAS 72830

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 18 E. Main Street  
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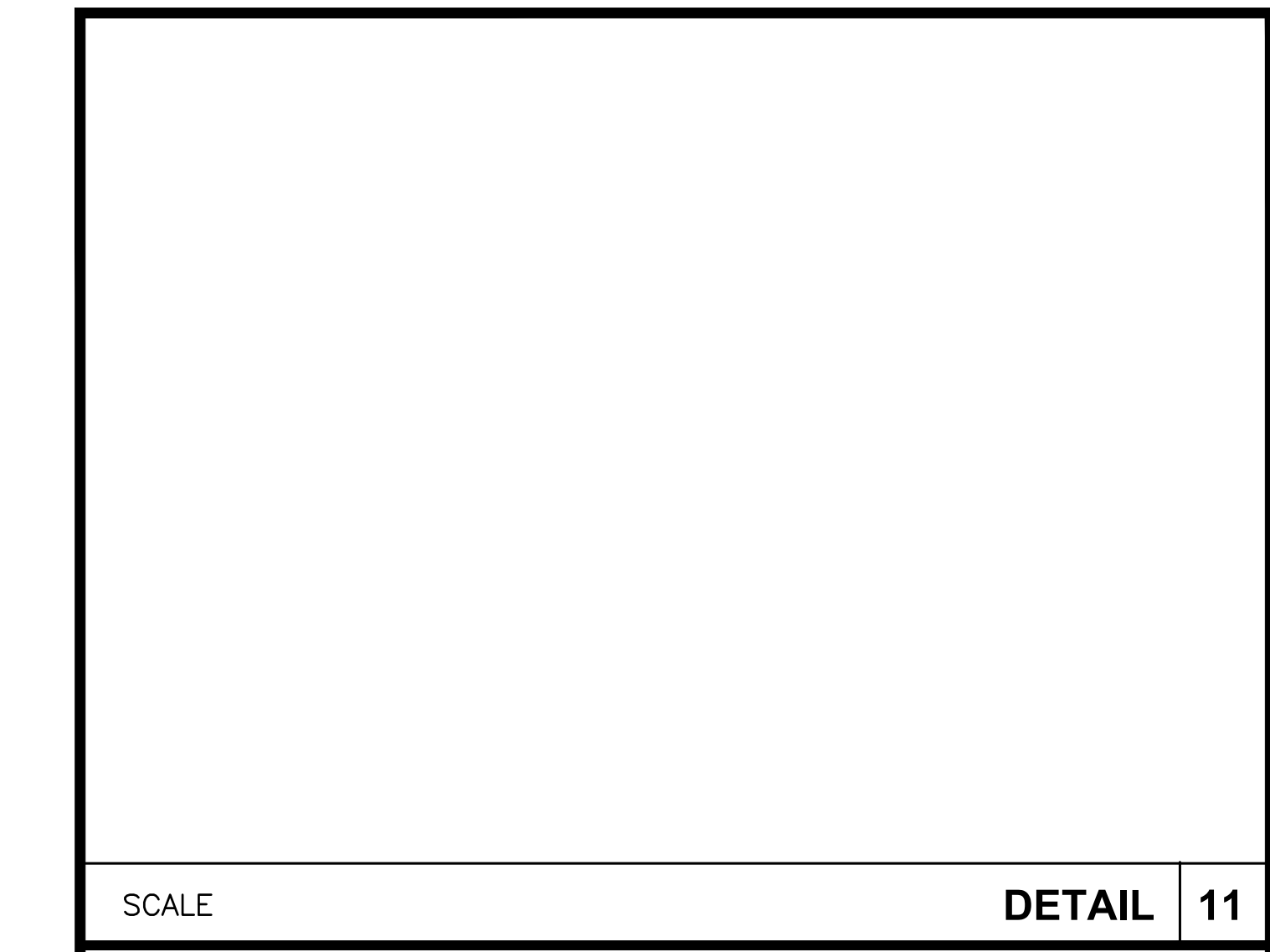
**Smith-Doyle Contractors, Inc.**  
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**SB SOUTH-BUILD**  
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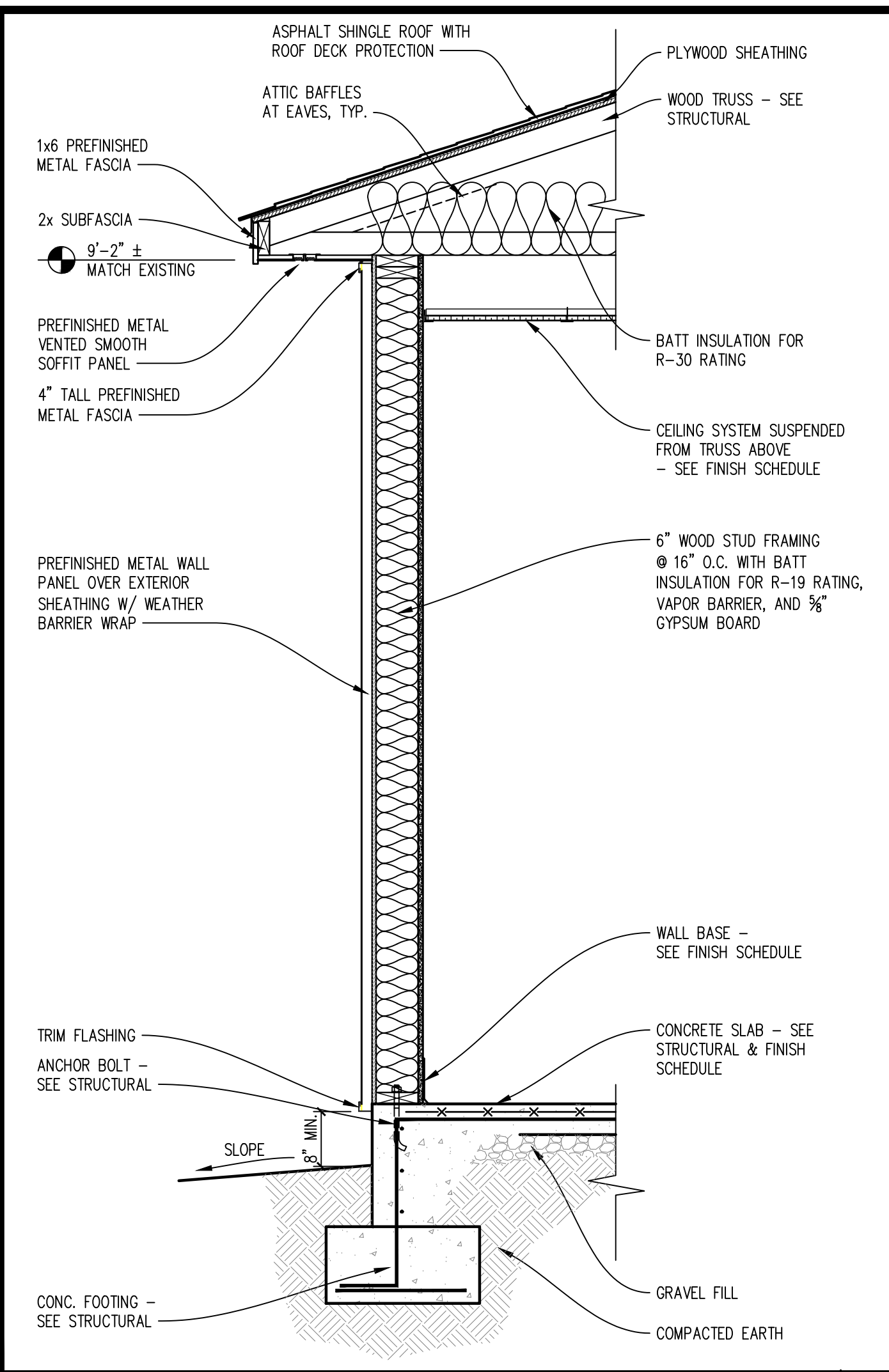


SHEET TITLE	<b>BUILDING ELEVATIONS</b>
DATE	1/21/25
PROJECT NO.	24-009A
SHEET NO.	<b>A2.0</b>

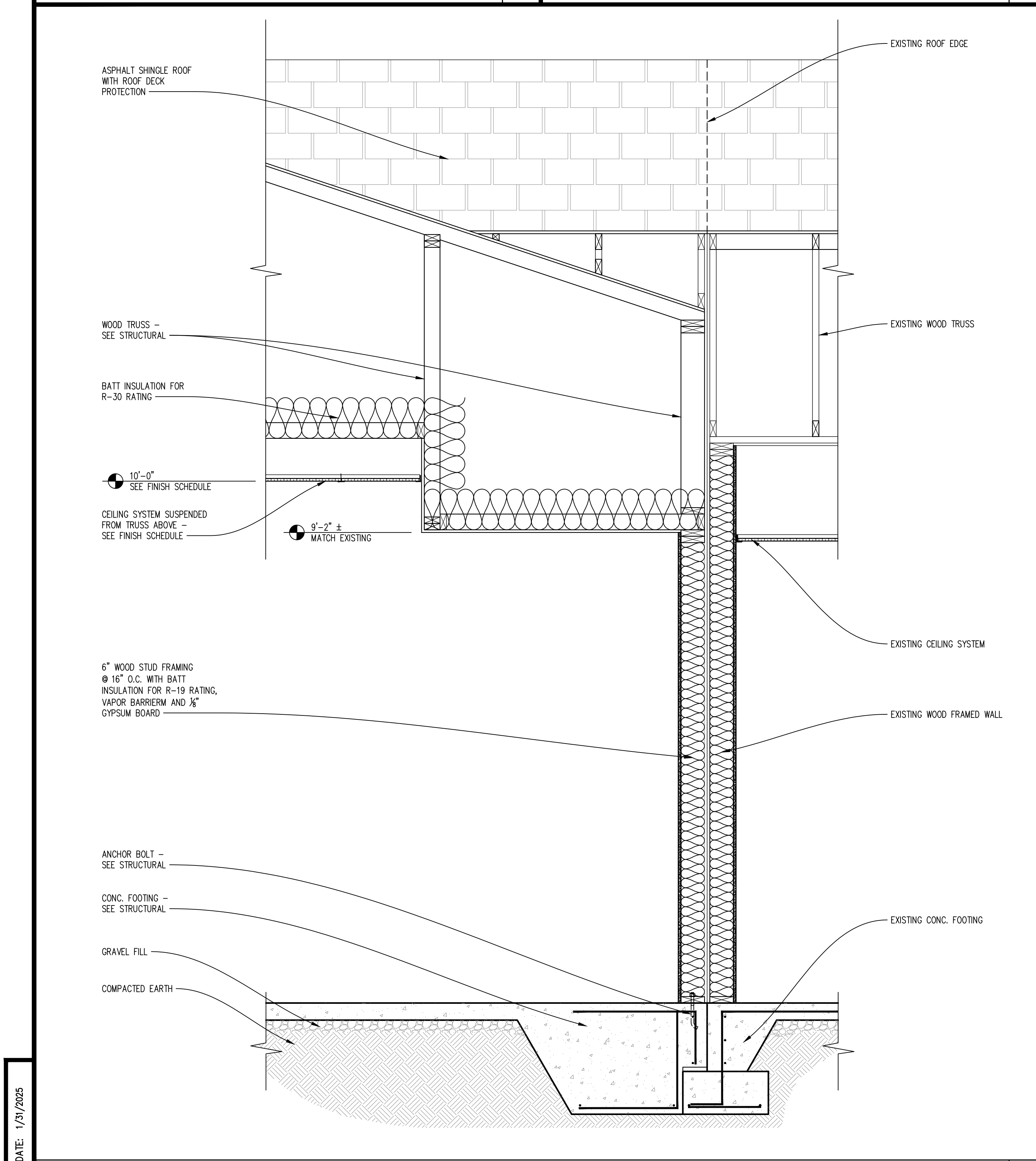
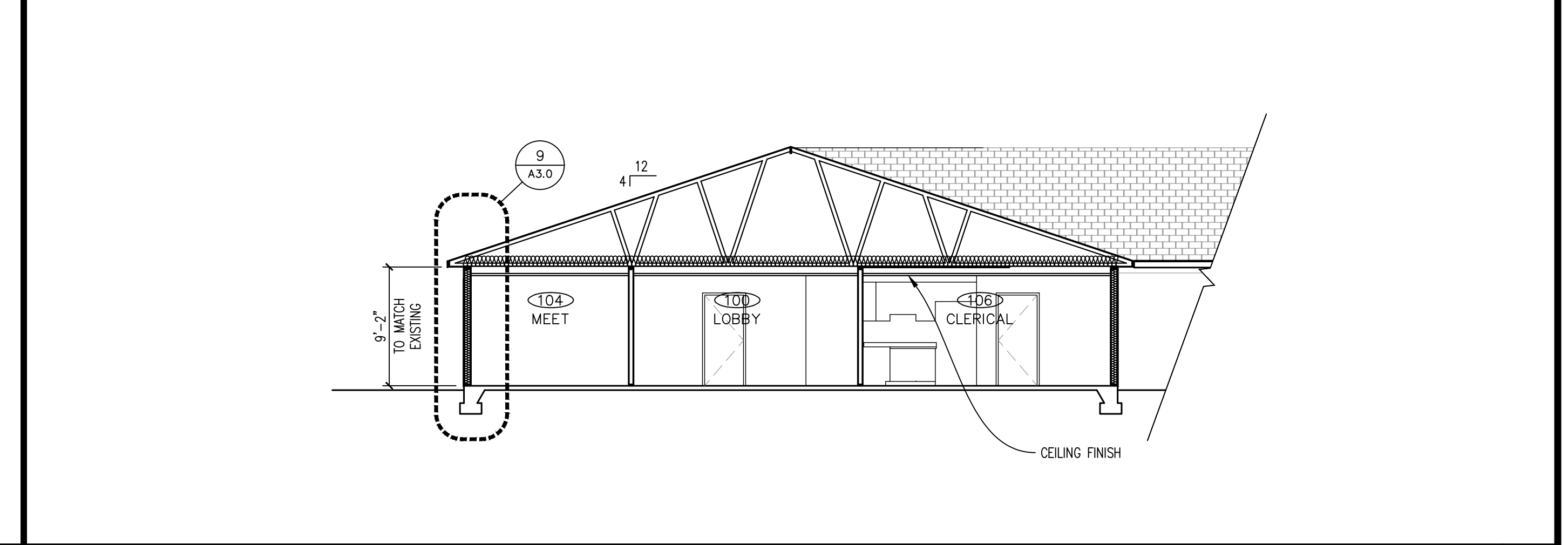
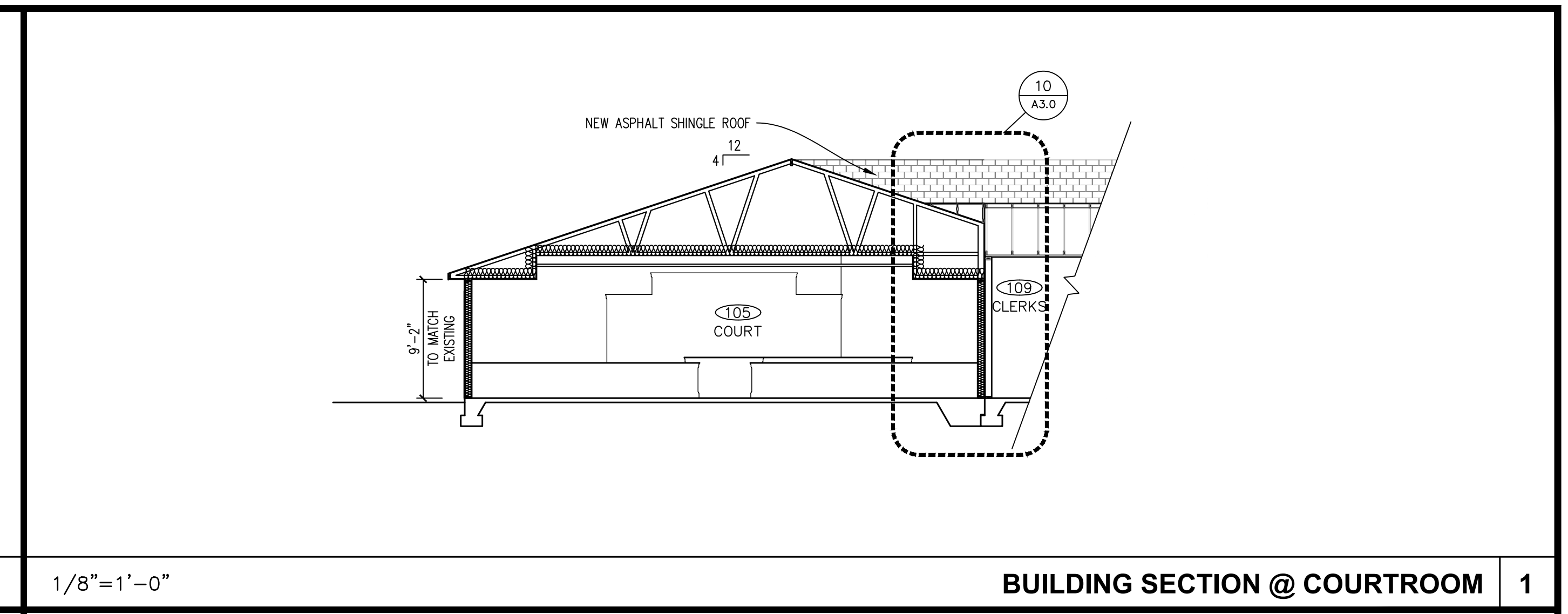
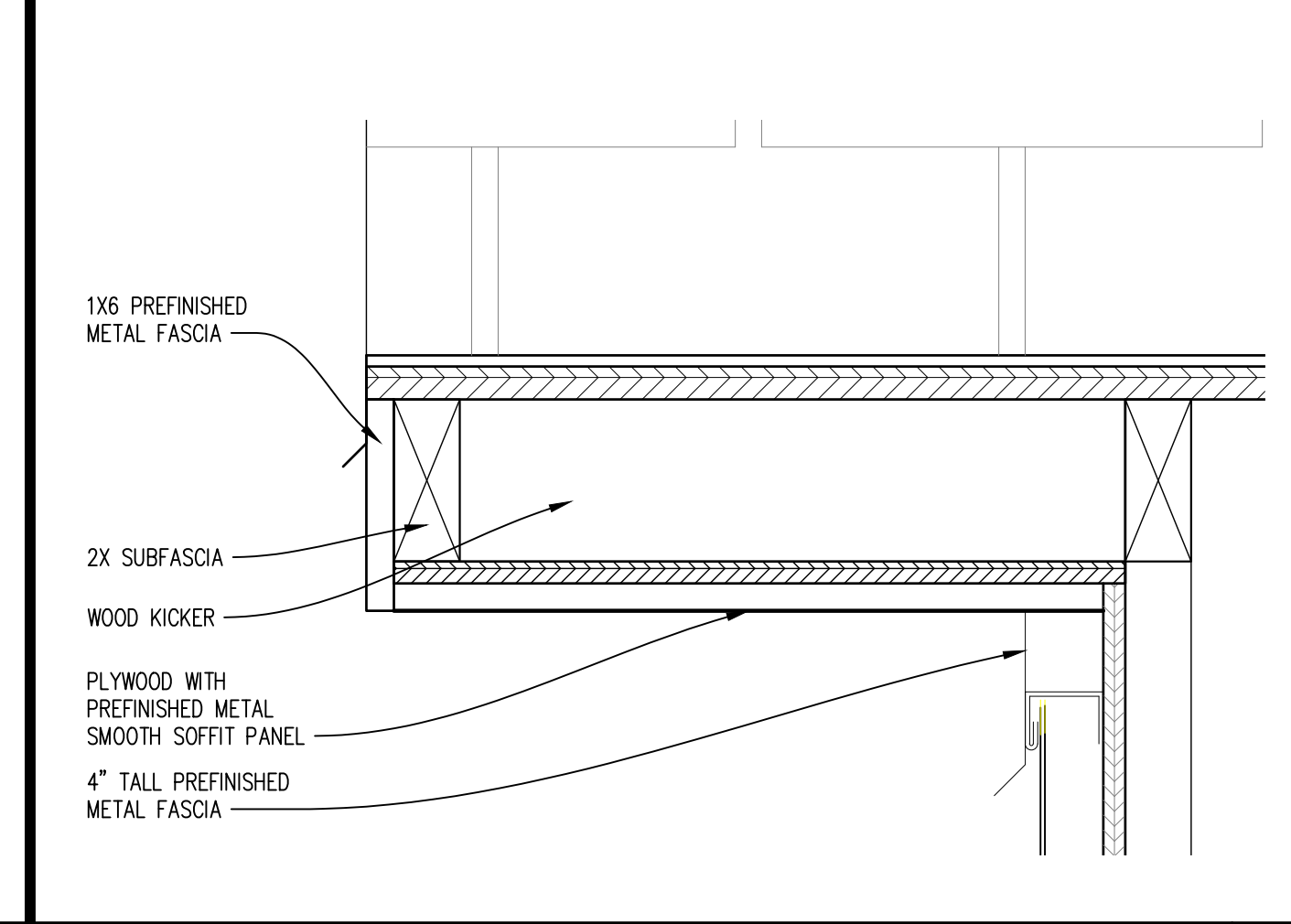
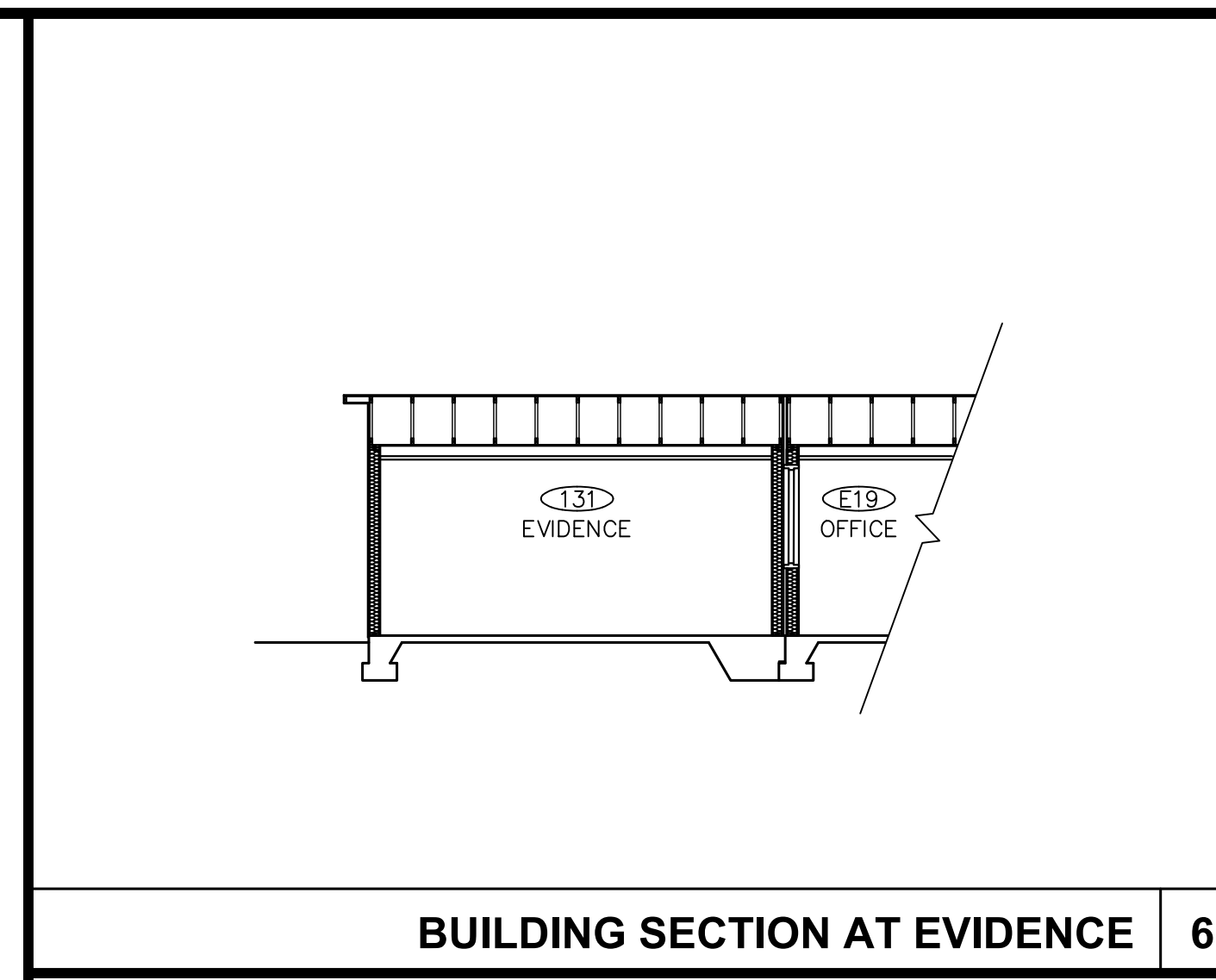




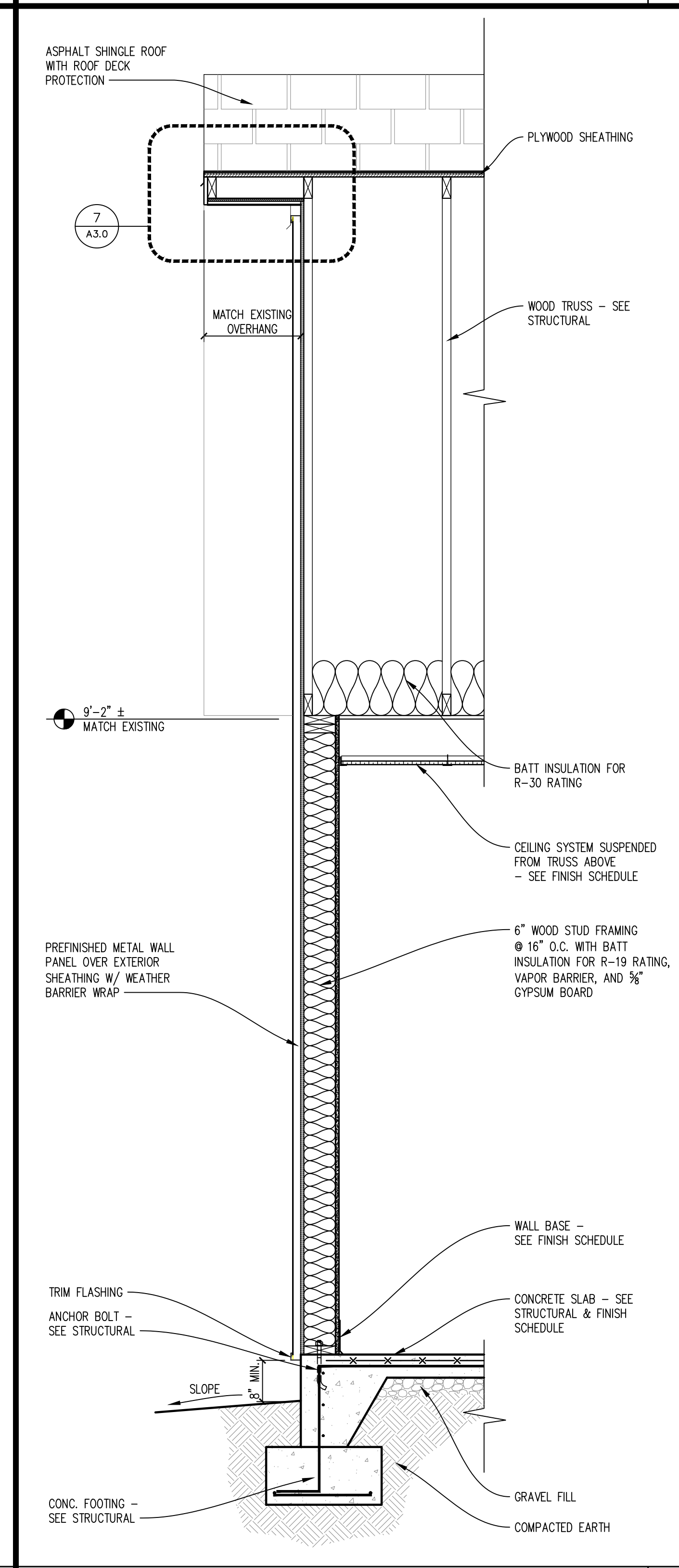
SCALE **DETAIL 11**



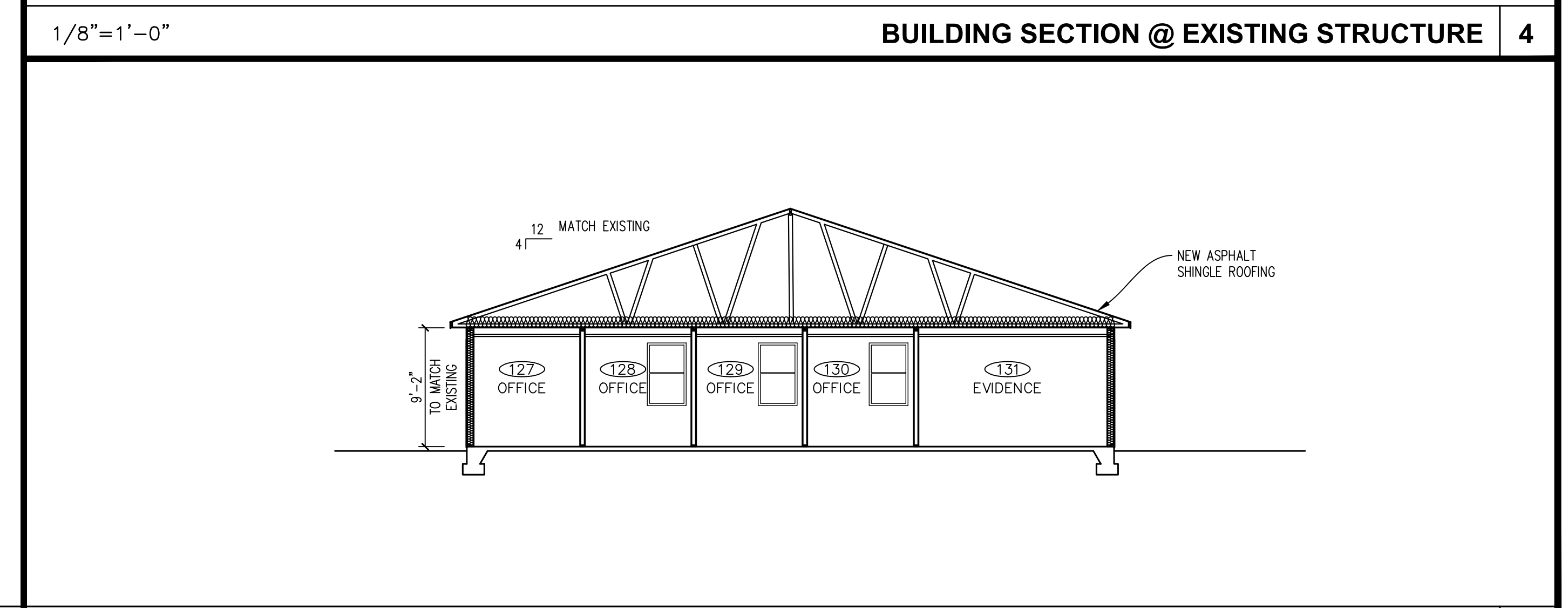
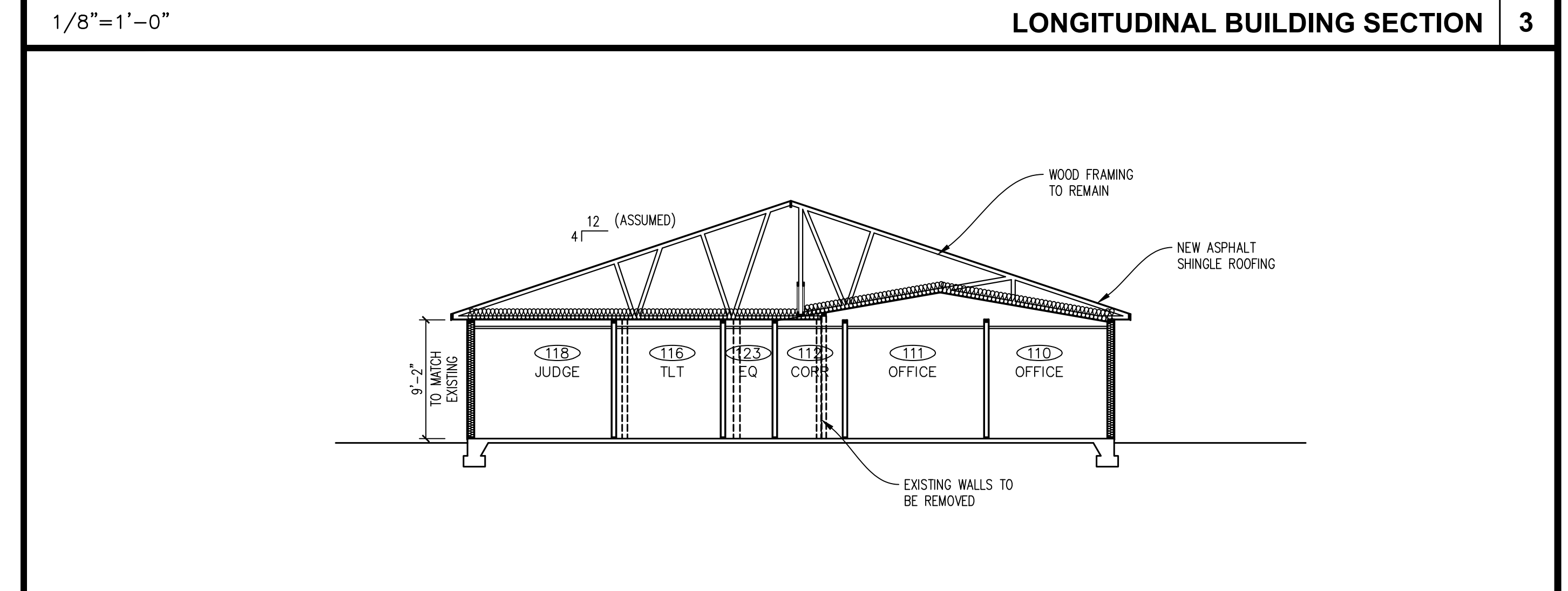
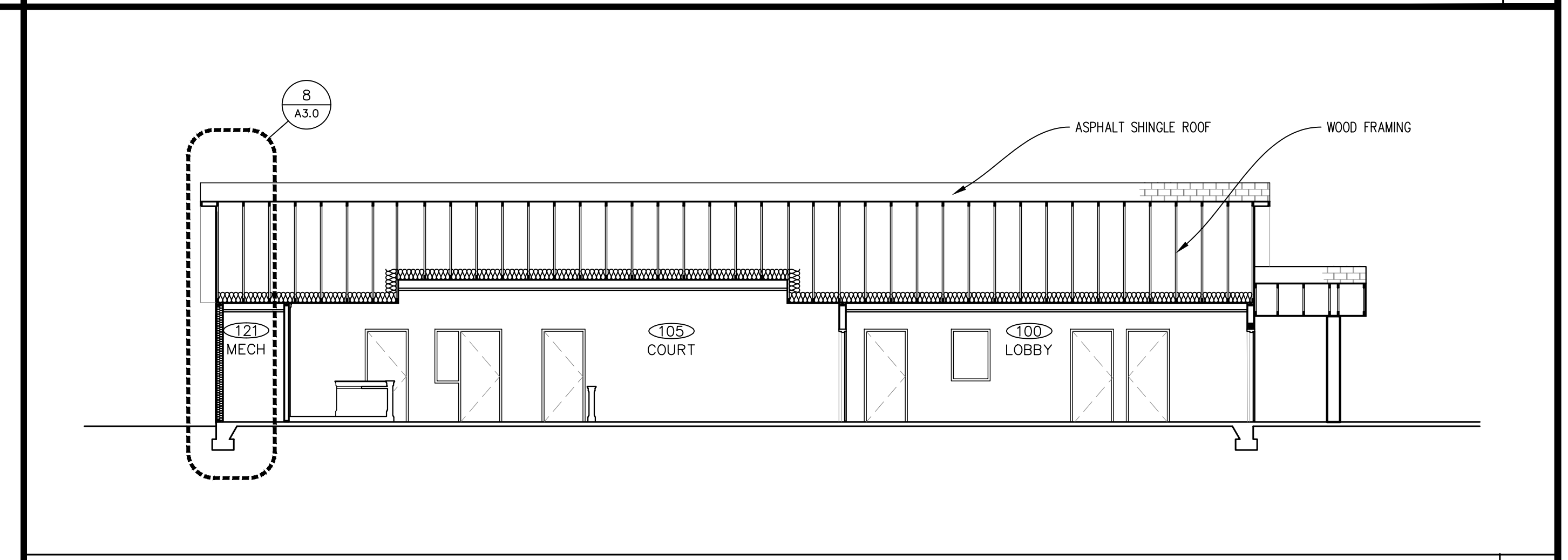
SCALE **DETAIL 12**



3/4"=1'-0" **EXISTING / NEW WALL SECTION 10**



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



NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**  
301 PORTER INDUSTRIAL ROAD  
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**SEAL**  
KAZUO SUZUKI, LANGSLEY  
No. 3027  
ARKANSAS  
1/21/25

SHEET TITLE  
**BUILDING SECTIONS**

DATE  
1/21/25

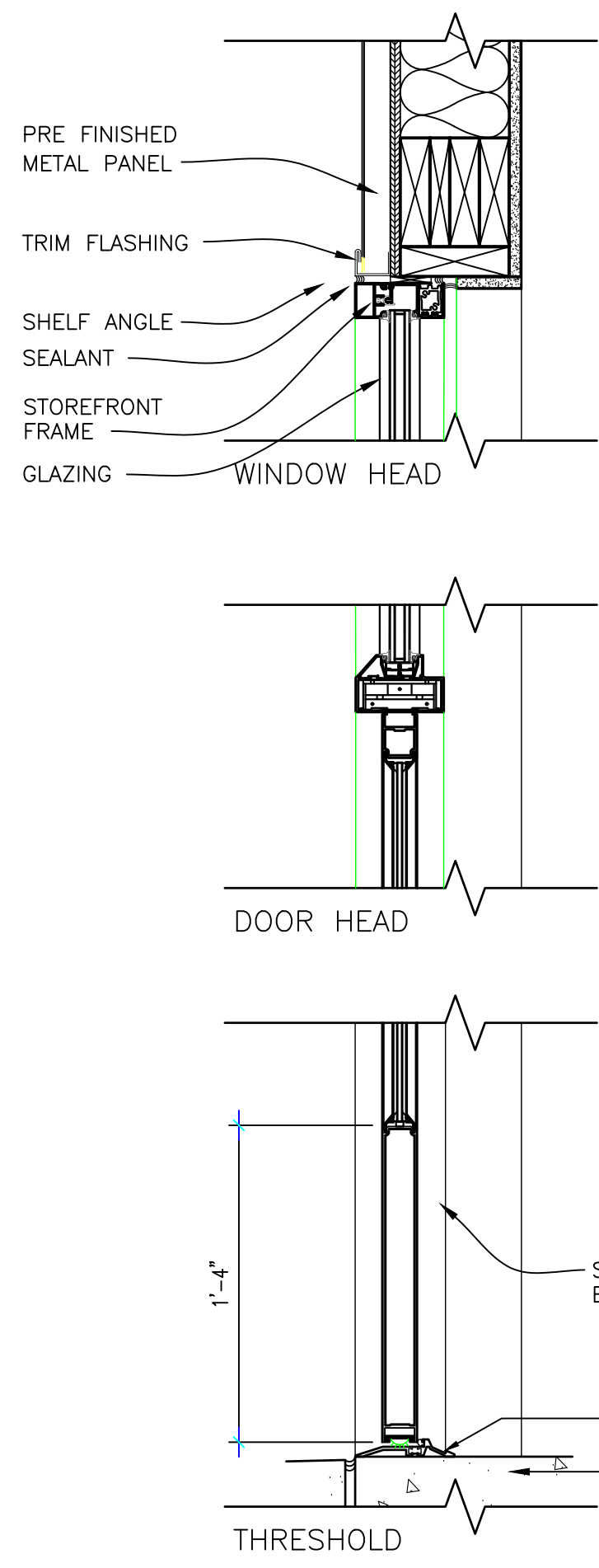
PROJECT NO.  
24-009A

SHEET NO.  
**A3.0**

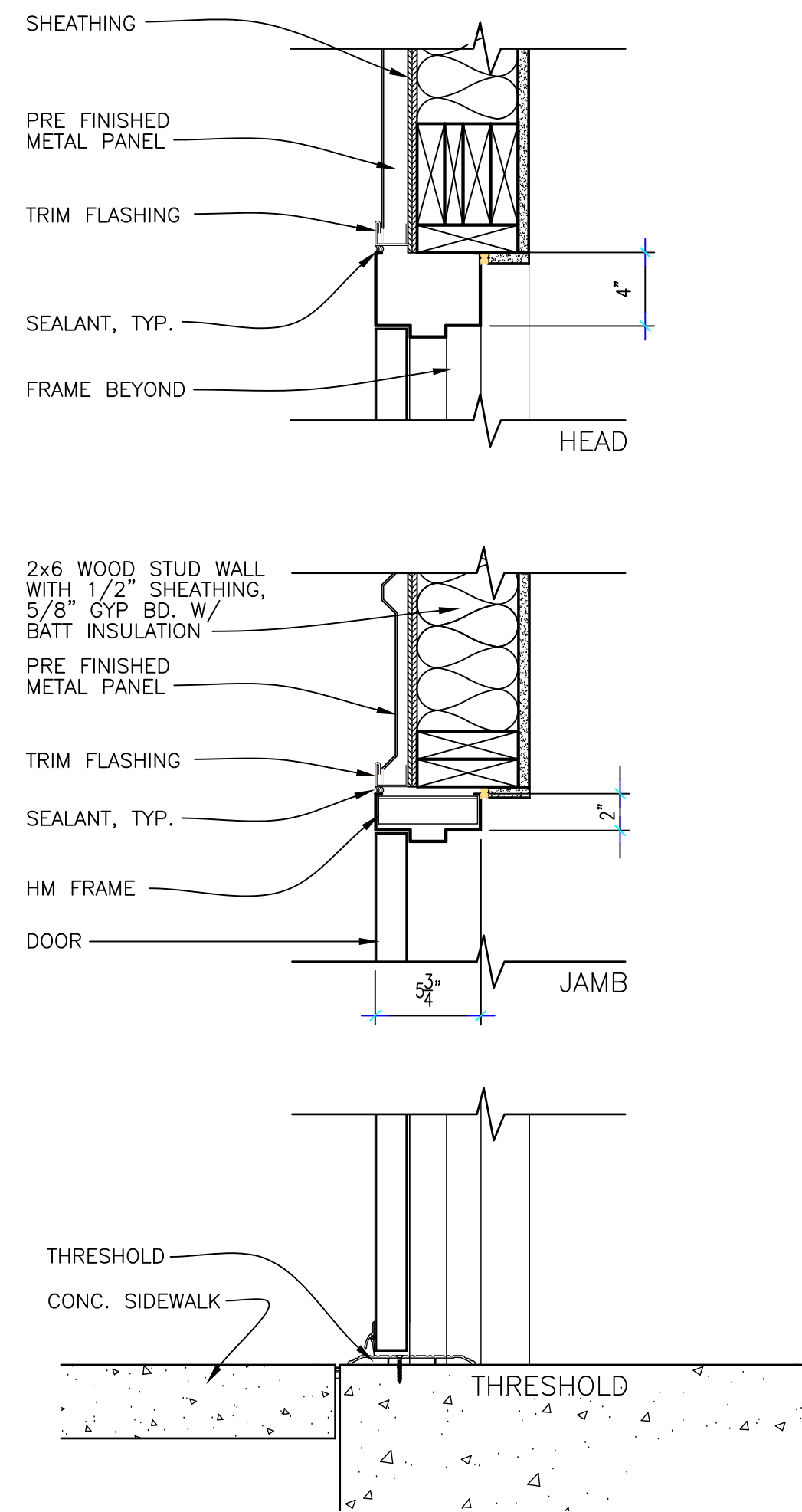
15 of 35

PLOT DATE: 1/31/2025

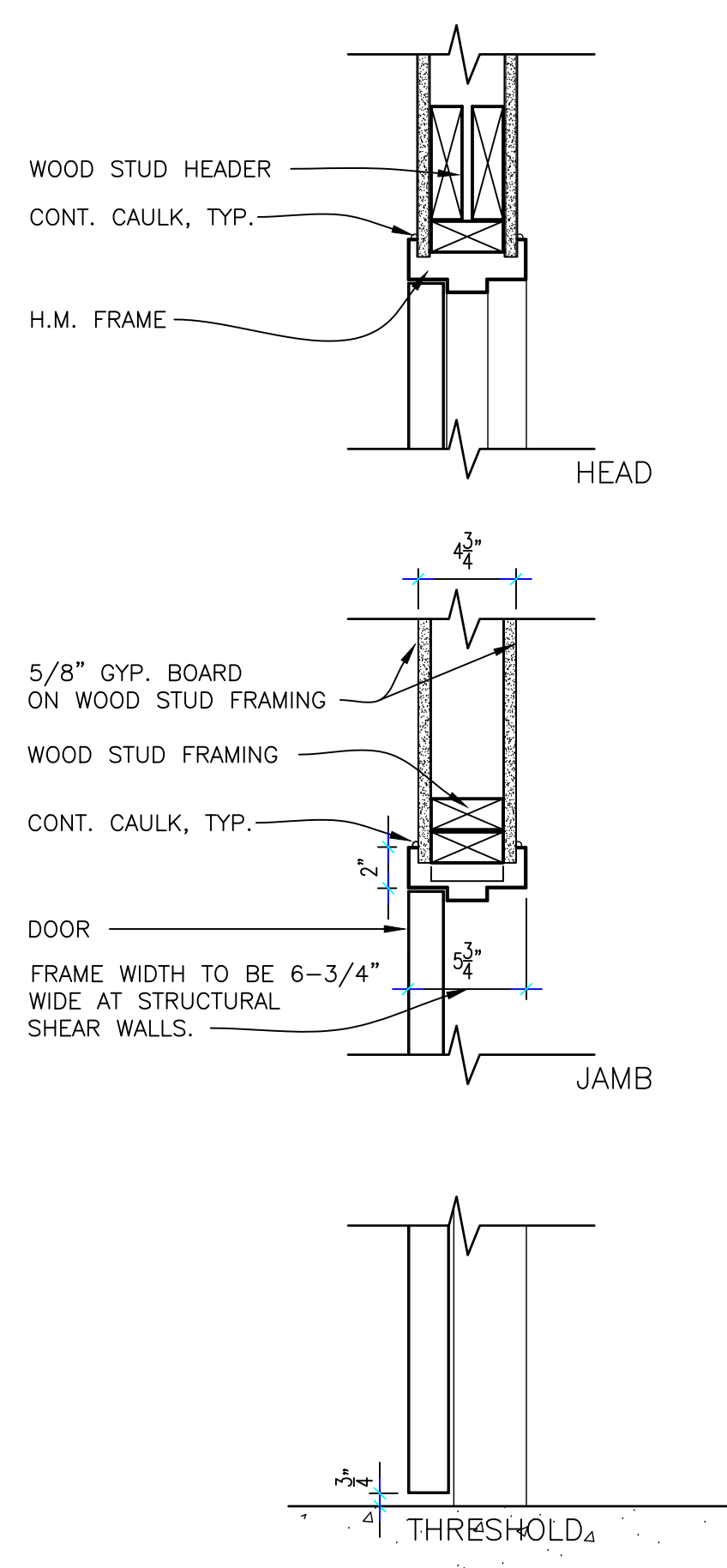




1-1/2" = 1'-0" ALUMINUM STOREFRONT 10



1-1/2" = 1'-0" EXTERIOR H.M. DOOR 7



1-1/2" = 1'-0" INTERIOR DOOR 4

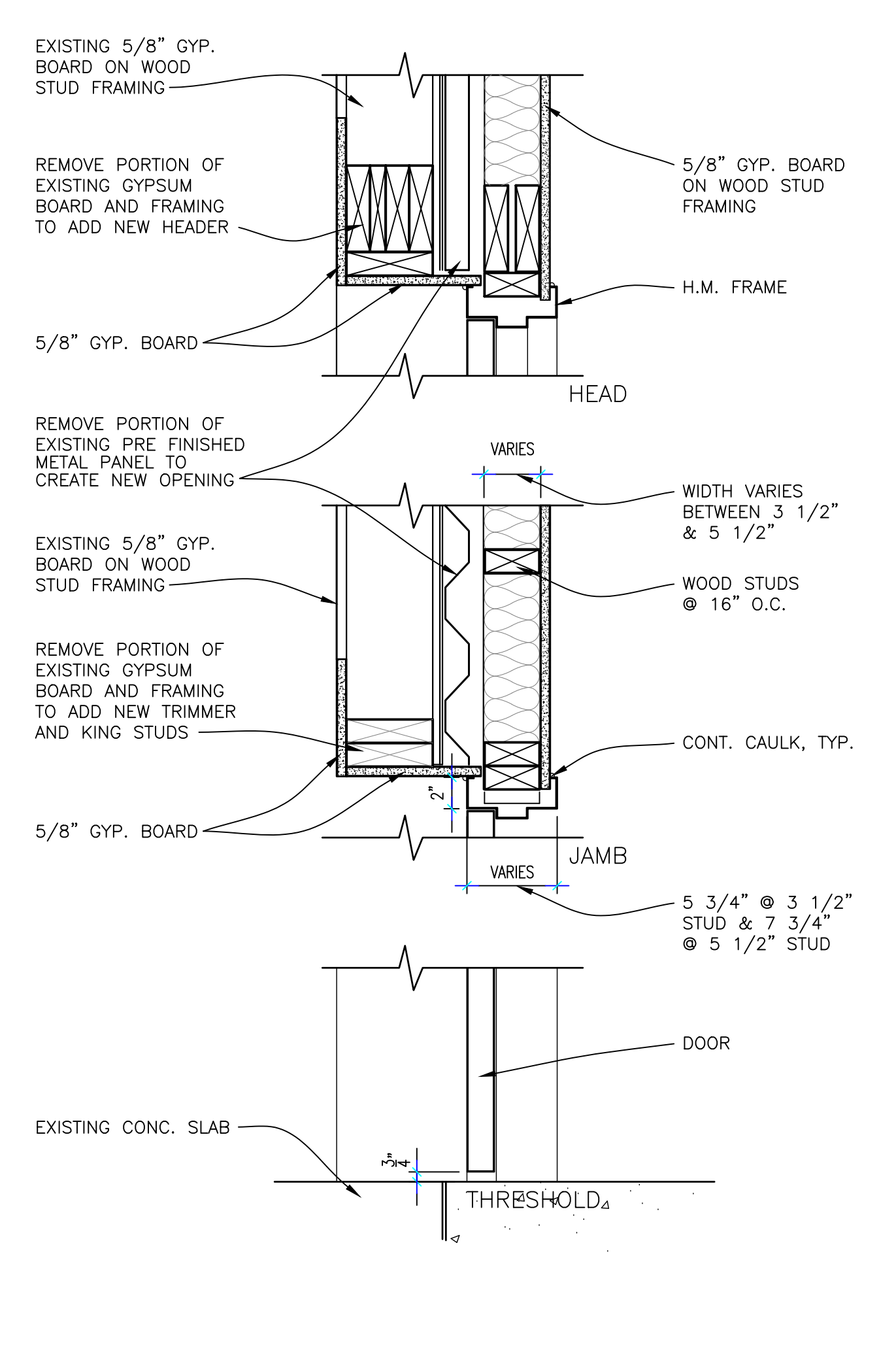
ROOM FINISH SCHEDULE							
NUMBER	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HT.	NOTES
100	LOBBY	VCT	VINYL	PT	ACT	10'-0"	-
101	WOMEN'S	CER	CER	CER	ACT	9'-0"	1
102	MEN'S	VCT	VINYL	PT			1
103	MEETING	VCT	VINYL	PT			-
104	MEETING						-
105	COURTROOM	CAR	WOOD	PT	ACT/GYP.	10'-0"	2
106	OFFICE	VCT	VINYL		ACT	9'-0"	-
108	OFFICE						-
109	CLERKS						-
110	OFFICE						-
111	OFFICE						-
112	CORRIDOR						-
113	TOILET	CER	CER	CER			1
114	CORRIDOR	VCT	VINYL	PT			-
116	TOILET	CER	CER	CER			-
117	CORRIDOR	VCT	VINYL	PT			-
118	JUDGE	CAR					-
119	MEETING	VCT			GYP		-
120	ELEC.	NR	NR	UPT	NR		-
121	MECHANICAL						-
122	EQ						-
123	EQ						-
125	CORRIDOR	CAR	VINYL	PT	ACT	9'-0"	-
126	EQ	VCT	NR	NR	NR		-
127	OFFICE	VCT	VINYL	PT	ACT	9'-0"	-
128	OFFICE						-
129	OFFICE						-
130	OFFICE						-
131	EVIDENCE						-

**KEY NOTES**  
 1 CERAMIC TILE FULL HEIGHT  
 2 WOOD CHAIR RAIL - STAIN GRADE (EC-297) @ 32" AFF. TOP.

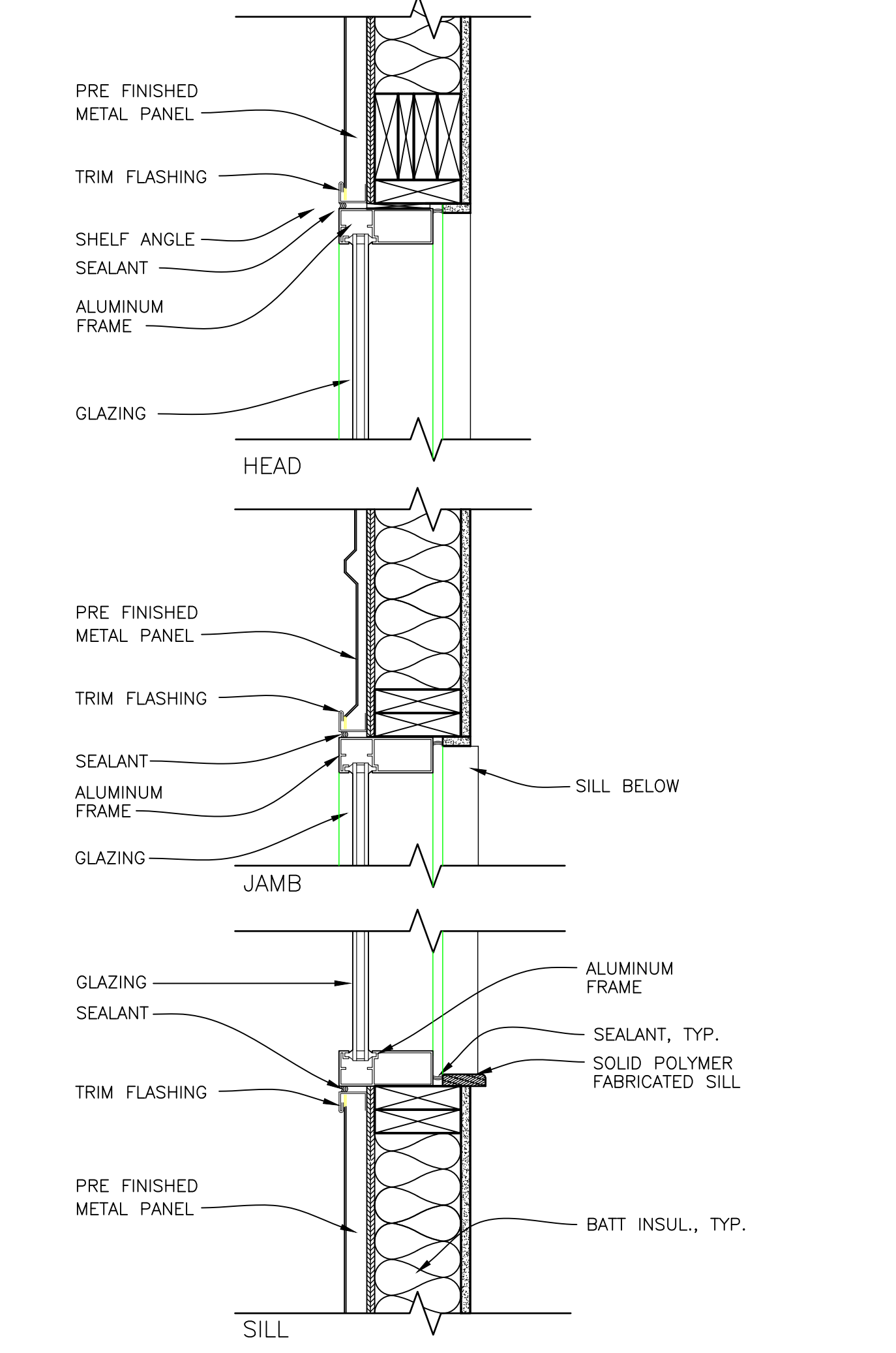
**GENERAL NOTES**  
 A. SEE 11/A1.3 FOR TILE TRANSITION DETAIL.  
 B. SEE 12/A1.3 FOR TILE BASE DETAIL.

**FINISH LEGEND**  
 ACT: ACOUSTICAL CEILING TILE SYSTEM: 2x2 (SPEC 09 51 00)  
 CAR: CARPET (SPEC 09 68 00)  
 CER: CERAMIC TILE (SPEC 09 30 00)  
 CONC: SEALED CONCRETE - CLEAR. (SPEC 03 31 00)  
 EXPOSED: EXPOSED - NO FINISH REQUIRED.  
 NR: NOT REQUIRED  
 PT: SURFACE AND/OR MATERIAL TO BE PAINTED (SPEC 09 91 00)  
 UPT: UNPAINTED.  
 VCT: VINYL COMPOSITION TILE. (SPEC 09 65 00)  
 VINYL: VINYL BASE. (SPEC 09 65 00)  
 WOOD: WOOD BASE - STAIN GRADE (BAS-1035)

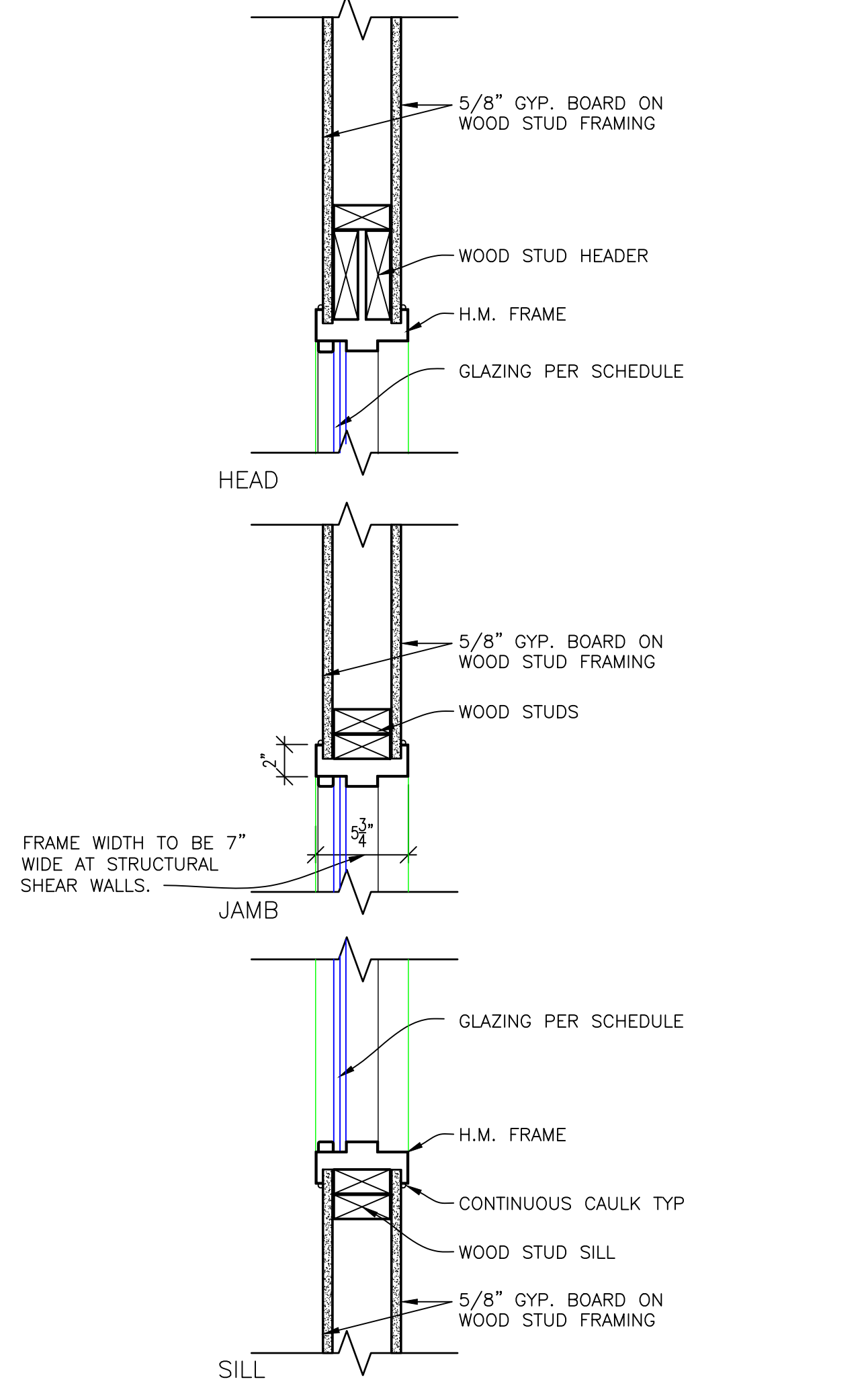
FINISH SCHEDULE 1



1-1/2" = 1'-0" INTERIOR DOOR @ DOUBLE WALL 11



1-1/2" = 1'-0" EXTERIOR ALUMINUM WINDOW 8



1-1/2" = 1'-0" INTERIOR WINDOW 5

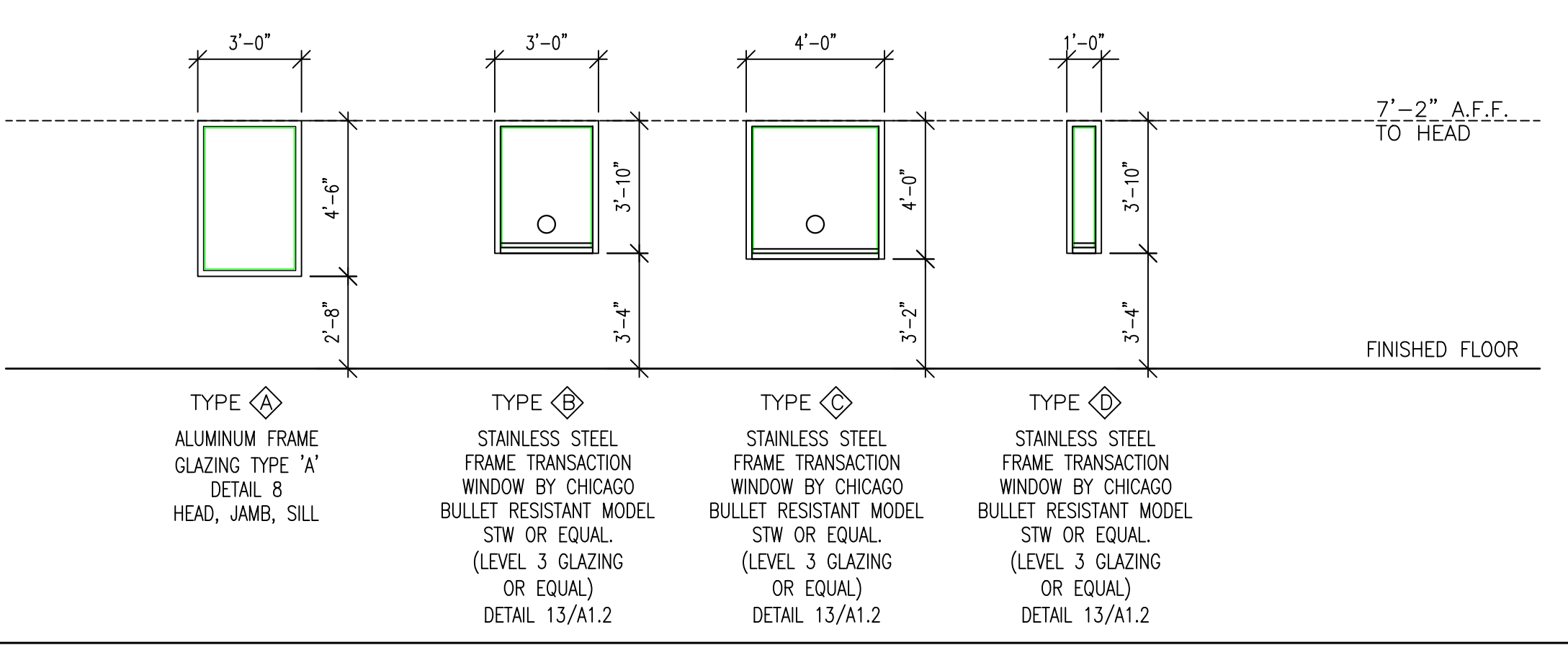
DOOR SCHEDULE														
MARK	ROOM NAME	ELEV.	DOOR			FRAME			RATING/LABEL	H.W. SET	NOTES			
			W	H	T	GLASS TYPE	MATL	GA.				H/J DETAIL	GA.	
100	LOBBY	A	3'-0"	7'-0"	-	A	AL	-	10	-	1	-		
101	WOMEN	C			1/2"	-	WD	-	4	16	-	3,4,5		
102	MEN	C				B	-	4	-	6	3,4,5			
103	MEETING	B				B	-	4	-	8	-			
104	MEETING	B				B	-	4	-	8	-			
105A	COURTROOM	B				B	-	4	-	10	-			
105B	COURTROOM	B				B	-	11	-	2	-			
106	CLERICAL	B				B	-	4	-	3	-			
107A	OFFICE	B				B	-	4	-	3	-			
107B	OFFICE	B				B	-	4	-	3	5			
108	OFFICE	B				B	-	4	-	3	-			
109A	CLERKS	B				B	-	11	-	3	-			
109B	CLERKS	B				B	-	4	-	3	-			
110	OFFICE	B				B	-	4	-	3	-			
111	OFFICE	B				B	-	4	-	3	-			
113	TOILET	C				-	-	4	-	4	-			
114	CORRIDOR	C				-	-	4	-	2	-			
116	TOILET	C				-	-	4	-	4	-			
117	CORRIDOR	C				-	-	7	14	-	7			
118A	JUDGE	B				B	-	11	16	-	4			
118B	JUDGE	B				B	-	4	-	4	-			
119	MEETING	D				2	C	HM	16	11	14	8	2	
120	ELECTRICAL	C				-	-	7	-	-	5	-		
121	MECHANICAL	C				-	-	7	-	-	5	-		
122	EQUIPMENT	C				-	-	4	16	-	3	-		
123	EQUIPMENT	C				-	-	4	16	-	3	1		
126	EQUIPMENT	C				-	-	4	-	3	1	-		
127	OFFICE	B				B	-	4	-	3	-	-		
128	OFFICE	B				B	-	4	-	3	-	-		
129	OFFICE	B				B	-	4	-	3	-	-		
130	OFFICE	B				B	-	4	-	3	-	-		
131	EVIDENCE	C				2	-	HM	16	4	14	-	9	5

**GENERAL NOTES:**  
 A ALL DETAILS INDICATED ARE ON THIS SHEET.  
 B H.M. DOORS AND FRAMES, SEE SPECIFICATION SECTION 08 11 13.  
 C ALUMINUM DOORS AND FRAMES, SEE SPECIFICATION SECTION 08 41 13.  
 D FINISH HARDWARE, SEE SPECIFICATION SECTION 08 71 00.  
 E GLASS AND GLAZING, SEE SPECIFICATION SECTION 08 80 00.

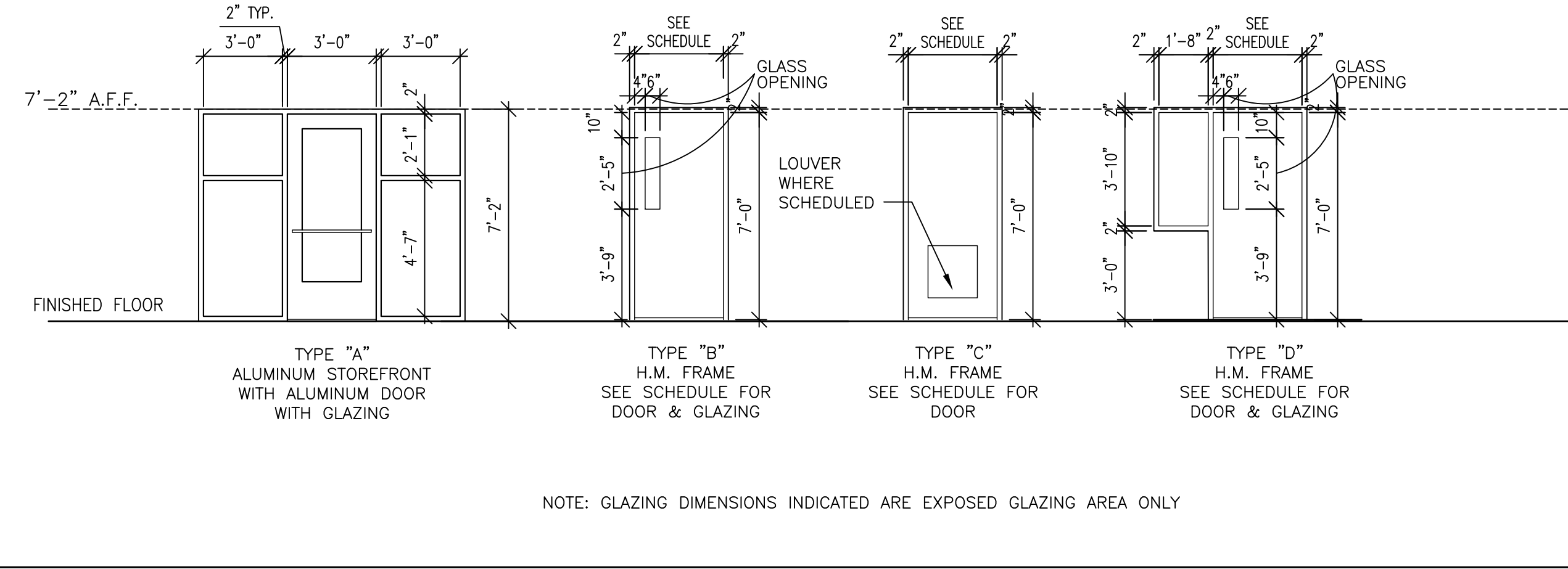
**KEY NOTES:**  
 1 LOUVER - COORDINATE WITH DIVISION 23. SEE SHEET H1.0 FOR SIZE.  
 2 SEE DETAIL 5/A5.0 FOR SIDELIGHT WINDOW DETAILS.  
 3 SOUNDPROOF DOOR.  
 4 PROVIDE KICK PLATE, SEE SPECIFICATION SECTION 08 71 00.  
 5 PROVIDE CLOSER, SEE SPECIFICATION SECTION 08 71 00.

**GLAZING:**  
 A 1" INSULATED WITH REFLECTIVE COATING.  
 B 1/4" CLEAR TEMPERED  
 C 1/4" CLEAR TEMPERED WITH WIRE

DOOR SCHEDULE 2



1/4" = 1'-0" WINDOW ELEVATIONS 6



1/4" = 1'-0" DOOR ELEVATIONS 3

SCALE DETAIL 12

1/4" = 1'-0"

1/4" = 1'-0"

JOHNSON COUNTY ARKANSAS  
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SHEET TITLE  
 SCHEDULES  
 AND  
 DETAILS  
 DATE  
 1/21/25  
 PROJECT NO.  
 24-009A  
 SHEET NO.  
 A5.0





NO.	DATE	REVISION

**GENERAL - DESIGN**

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS, AND THE LATEST EDITIONS OF THE FOLLOWING, UNLESS OTHERWISE NOTED:
  - INTERNATIONAL BUILDING CODE 2021
  - ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
  - ACI 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
  - AGI DETAILING MANUAL (ACI SP-46)
  - AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
  - AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
  - RCS SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS
  - NDS NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION

**2. LOADS:**

<b>LIVE LOADS:</b>	
• ROOF	20 PSF
• FIRST FLOOR	100 PSF
• PLUS 20 PSF FOR PARTITIONS	

**ROOF SNOW LOAD:**

• GROUND SNOW LOAD	$P_g = 10$ PSF
• SNOW IMPORTANCE FACTOR	1

**BUILDING RISK CATEGORY**

• RISK CATEGORY	II
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**WIND DESIGN CRITERIA:**

• ULTIMATE DESIGN WIND SPEED $V_{ult}$ (3-SECOND GUST)	108
• NOMINAL DESIGN WIND SPEED $V_{ref}$	83
• WIND EXPOSURE	C
• INTERNAL PRESSURE COEFFICIENT	$\pm 0.18$

**SEISMIC DESIGN CRITERIA:**

• SEISMIC IMPORTANCE FACTOR	$I = 1$
• MAPPED SPECTRAL RESPONSE ACCELERATIONS:	$S_{MS} = 0.227$ $S_{M1} = 0.110$
• SITE CLASS	C
• SPECTRAL RESPONSE COEFFICIENTS:	$S_{DS} = 0.197$ $S_{D1} = 0.110$
• SEISMIC DESIGN CATEGORY	B
• BASIC SEISMIC-FORCE-RESISTING SYSTEM	BUILDING FRAME SYSTEM - LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
• RESPONSE MODIFICATION FACTOR	$R = 7$
• SEISMIC RESPONSE COEFFICIENT(S)	$C_s = 0.0281$
• DESIGN BASE SHEAR	$V = C_s W$ KIPS
• ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE ANALYSIS

- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. IN GENERAL, OPENINGS INDICATED ON THE STRUCTURAL DRAWINGS ARE THOSE LARGER THAN 12 INCHES. OPENINGS SHALL NOT CUT THE DECK WITHOUT ADDED SUPPORT. CROSS CHECK AND COORDINATE ALL DIMENSIONS, DETAILS, AND OPENINGS WITH ARCHITECTURAL AND M/E DRAWINGS. REPORT ANY DISCREPANCIES TO A/E PRIOR TO CONTINUING WORK. CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED WORK. UNLESS SPECIFICALLY NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEANS AND MEASURES NECESSARY TO PROTECT THE STRUCTURE AND TO PROVIDE FOR THE SAFETY OF WORKMEN AND THE PUBLIC DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO TEMPORARY SUPPORTS AND CONNECTIONS, BRACING, SHORING, ETC. PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND, SEISMIC, EARTH AND UNBALANCED LOADING DUE TO CONSTRUCTION EQUIPMENT AND/OR EXCAVATION UNTIL PERMANENT BUILDING BRACING IS IN PLACE AND FULLY FUNCTIONAL. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED SO AS NOT TO OVERSTRESS ANY PORTION OF THE STRUCTURE.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING OR REGULATORY BODIES HAVING JURISDICTION AT THE SITE. CONTRACTORS SHALL BE TOTALLY RESPONSIBLE FOR FULL COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND SAFETY OF WORKERS AND THE PUBLIC IN AND AROUND THE CONSTRUCTION SITE.
- REINFORCING STEEL, STRUCTURAL STEEL, WOOD TRUSS JOISTS, INCLUDING ERECTION AND PLACING DRAWINGS, SHALL BE SUBMITTED TO AND BE REVIEWED BY THE A/E BEFORE FABRICATION BUT ONLY AFTER THE CONTRACTOR COMPLETES HIS REVIEW.
- ALL CONDITIONS AND DIMENSIONS SHOWN AS BACKGROUND ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL, MECHANICAL/ELECTRICAL DRAWINGS FOR THIS INFORMATION.
- FOR CONDITIONS NOT EXPRESSLY SHOWN ON THE DRAWINGS, USE DETAILS SHOWN FOR SIMILAR CONDITIONS AFTER VERIFICATION WITH THE A/E.
- THE STRUCTURAL CONTRACT DOCUMENTS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART FOR USE AS SHOP DRAWINGS.
- LATERAL FORCE-RESISTING SYSTEM (LFRS) WHICH INCLUDES SEISMIC FORCE-RESISTING SYSTEM (SFRS) AND MAIN WIND FORCE-RESISTING SYSTEM.
- VERTICAL ELEMENTS OF LFERS: WOOD LIGHT-FRAME WALLS WITH WOOD STRUCTURAL PANEL SHEATHING WOOD STRUCTURAL PANEL DIAPHRAGM SHEATHING - ROOF CONNECTIONS OF DIAPHRAGMS AND COLLECTORS TO VERTICAL ELEMENTS OF LFERS FOUNDATION ELEMENTS

**EARTHWORK/FOUNDATIONS**

- FOUNDATION IS SHALLOW FOOTINGS WITH BEARING ACCEPTABLE TO INSPECTOR. SPREAD AND CONTINUOUS FOOTINGS ARE DESIGNED FOR 200 PSF MAXIMUM SOIL PRESSURE. SEE SPECIFICATIONS AND SOIL INVESTIGATION REPORT FOR ADDITIONAL INFORMATION.
- CENTER FOOTINGS ON COLUMN CENTERLINES UNLESS OTHERWISE NOTED. WALL FOOTINGS AND THICKENED SLABS ARE CENTERED UNDER WALLS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL KEEP EXCAVATIONS DRY AT ALL TIMES DURING THE FOUNDATION CONSTRUCTION. ALL FOUNDATION CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATIONS ARE OPENED.
- ALL FOOTINGS SHALL BEAR ON SOUND, UNDISTURBED SOIL OR COMPACTED FILL AS DEFINED IN THE SPECIFICATIONS, BUT NOT HIGHER THAN THE MINIMUM DEPTH SHOWN ON DRAWINGS.
- TOP OF ALL FOOTINGS MUST BE A MINIMUM OF 6" BELOW FINAL GRADE. FOOTING ELEVATIONS SHOWN ON PLANS ARE TO TOP OF FOOTINGS AND ARE FOR ESTIMATING PURPOSES.
- NO FOUNDATION OR SLAB ON GRADE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- FOR DETAILS OF FILL AND COMPACTION REQUIREMENTS, REFER TO SPECIFICATIONS.
- SEE SOIL INVESTIGATION REPORT FOR STRUCTURAL FILL AND PLACEMENT REQUIREMENTS.
- ANY STRUCTURAL ELEMENT HAVING BACKFILL ON BOTH SIDES SHALL HAVE BACKFILL PLACED ON BOTH SIDES SIMULTANEOUSLY AND AT THE SAME LEVELS UNLESS ELEMENT IS ADEQUATELY BRACED.
- ALL INTERIOR SLABS-ON-GRADE SHALL BE UNDERLAIN BY A MINIMUM 15 MIL VAPOR RETARDER AND 4" MINIMUM OF CLEAN, COARSE, GRANULAR COMPACTED DRAINAGE FILL.
- ALL SOIL DISTURBED BY PLACING OF BELOW GRADE PLUMBING AND ELECTRIC SHALL BE RECOMPACTED WITH A VIBRATORY TAMPER IN LAYERS NOT TO EXCEED 4" THICK.
- COMPACT BACKFILL AT BASEMENT WALLS IN SUCH A MANNER AS NOT TO DAMAGE DRAINAGE BLANKET.
- BACKFILLING BEHIND BASEMENT WALLS IS NOT TO BE DONE UNTIL BOTH TOP AND BOTTOM SUPPORTING SLABS ARE IN PLACE.

**CONCRETE**

- CONCRETE SHALL HAVE THE MINIMUM 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

FOOTINGS, PIERS, FOUNDATION WALLS	3000 PSI (NW)
SLABS-ON-GRADE	3000 PSI (NW)
ALL CONCRETE EXPOSED TO THE WEATHER INCLUDING CURBS, PAVING, SIDEWALKS, ETC.	4000 PSI (NW)
ALL OTHER CONCRETE	3000 PSI (NW)

- ALL 4000 PSI CONCRETE SHALL HAVE LIMESTONE AGGREGATE.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED.
- UNLESS OTHERWISE NOTED, SLABS-ON-GRADE SHALL BE 6" THICK, AS INDICATED, POURED CONCRETE AND REINFORCED WITH #6@20"X20" WELDED WIRE FABRIC PLACED 1 1/2" FROM TOP OF SLAB. FILLING UNDER SLABS ON GRADE SHALL BE COMPACTED IN A MANNER THAT WILL NOT DAMAGE FOUNDATION WALLS. SLABS SHALL BE POURED IN STRIPS NOT EXCEEDING 30 FEET IN WIDTH.
- PLACE CRACK CONTROL JOINTS AT 36X SLAB THICKNESS MAXIMUM EACH DIRECTION IN ALL SLABS-ON-GRADE UNLESS NOTED OTHERWISE.
- SAWED CONTROL JOINTS IN SLABS-ON-GRADE SHALL BE MADE WITHIN 6 TO 16 HOURS AFTER SLAB IS PLACED, BUT NOT UNTIL THE SAW WILL NOT DISLODGE THE AGGREGATE.
- MAXIMUM LENGTH OF ANY CONCRETE WALL POUR TO BE 60 FEET EXCEPT WHERE CONSTRUCTION JOINTS ARE SHOWN ON PLANS.
- WELDED WIRE FABRIC SHALL BE ASTM A185. BAR REINFORCEMENT SHALL BE ASTM A615 GRADE #6 WITH THE FOLLOWING 12 UNLESS OTHERWISE NOTED ON THE CONTRACT DRAWINGS: MINIMUM REINFORCING STEEL SPLICES FOR #6 BARS AND SMALLER SHALL BE 50 BAR DIAMETERS AND FOR #7 BARS AND LARGER SHALL BE 60 BAR DIAMETERS. ALL REINFORCING STEEL SPLICES TO BE CLASS 'B' AS INDICATED IN REINFORCING STEEL SPLICE SCHEDULES. SPLICES OF WELDED WIRE FABRIC (CROSS WIRE TO CROSS WIRE) SHALL BE ONE FULL MESH PLUS 2 INCHES (8" MINIMUM).
- ALL COLUMN BARS TO BE OFFSET AT SPLICES, UNLESS SHOWN OTHERWISE.
- FIELD CUTTING OF REINFORCING BARS IS NOT PERMITTED UNLESS APPROVED BY ENGINEER.
- UNLESS OTHERWISE SHOWN, THERE SHALL BE TWO #3 BARS AROUND ALL OPENINGS IN SLABS AND WALLS, EXTENDING A MINIMUM OF 50 BAR DIAMETERS BEYOND CORNER OF OPENING.
- MAINTAIN THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL UNLESS OTHERWISE NOTED:

CONCRETE CAST AGAINST EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER BUT CAST AGAINST FORMS	3 INCHES
#6 AND LARGER	2 INCHES
#5 AND SMALLER	1 1/2 INCHES

- ALL HOOKS SHALL BE ACI STANDARD HOOKS UNLESS OTHERWISE NOTED. PROVIDE 90 DEGREE HOOKS ON THE DISCONTINUOUS ENDS OF TOP AND BOTTOM BARS UNLESS OTHERWISE NOTED. ALL STIRRUPS AND TIES ARE TO BE SEISMIC STIRRUPS/TIES AND ARE TO HAVE SEISMIC HOOKS.
- PROVIDE VERTICAL COLUMN AND WALL FOUNDATION DOWELS OF SAME SIZE AND NUMBER AS RESPECTIVE COLUMN OR WALL REINFORCING, UNLESS OTHERWISE DETAILED OR NOTED.
- CONCRETE WALLS, UNLESS OTHERWISE NOTED OR SHOWN, ARE TO HAVE THE FOLLOWING REINFORCING:
  - THRU 8" THICKNESS - #4 @ 18" O.C.E.W. @ CENTER OF WALL
  - THRU 10" THICKNESS - #4 @ 8" O.C.E.W. @ CENTER OF WALL
  - THRU 12" THICKNESS - #4 @ 12" O.C.E.W.
- AT THE CORNERS OF ALL WALLS PROVIDE CORNER BARS 100 DIAMETERS LONG (50 DIAMETERS EACH DIRECTION) UNLESS OTHERWISE NOTED. PLACE BARS IN THE OUTSIDE FACE OF WALLS AND BEAMS, MATCHING THE SIZE AND SPACING OF THE HORIZONTAL WALL BARS AND BEAM TEMPERATURE REINFORCING, UNLESS OTHERWISE NOTED.
- PROVIDE 3 1/2" THICK LIGHTWEIGHT CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR SUPPORTED MECHANICAL AND ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED. CONNECT TO CONCRETE SLAB AS INDICATED, UNLESS MONOLITHIC. SEE MECHANICAL AND ELECTRICAL FOR SIZE AND LOCATION. REINFORCING FOR MECHANICAL PADS, WHERE NOT SHOWN OTHERWISE, SHALL BE #6@14"X4" WELDED WIRE FABRIC WITH ONE #4 CONTINUOUS AT EDGE FOR PADS UP TO 4" THICK. THICKER PADS AND BASES SHALL HAVE #4 @ 12" O.C.E.W. TOP AND BOTTOM.
- NO HORIZONTAL JOINTS SHALL BE ALLOWED IN FOOTINGS, PILE CAPS, SLABS, PIERS, WALLS, OR BEAMS, EXCEPT AS INDICATED OR APPROVED BY ARCHITECT/ENGINEER. CONSTRUCTION JOINT SHALL NOT BE LOCATED WITHIN REINFORCING STEEL SPLICE LENGTH. CONTRACTOR SHALL SUBMIT LAYOUT DRAWING SHOWING ALL PROPOSED CONSTRUCTION JOINT AND CONTROL JOINT LOCATIONS FOR REVIEW PRIOR TO PREPARATION OF AFFECTED REINFORCING STEEL SHOP DRAWINGS.
- REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR MISCELLANEOUS ITEMS TO BE CAST INTO CONCRETE AND ANY REQUIRED OPENINGS THROUGH WALLS OR SLABS.
- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE RECOMMENDED TOLERANCES OF ACI 117, LATEST EDITION.
- PROVIDE 3/4" CHAMFERS ON CORNERS OF ALL EXPOSED CONCRETE UNLESS OTHERWISE DETAILED OR NOTED.

**REINFORCED CONCRETE AND MASONRY SHOP DRAWINGS**

- REINFORCING STEEL, SUPPORTS, AND ACCESSORIES SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH RECOMMENDATIONS OF LATEST ACI DETAILING MANUAL (SP-46). SUBMIT PLACING DRAWINGS THAT SHOW THE NUMBER, GRADE, SIZE, SHAPE, LENGTH AND LOCATION OF THE REINFORCING STEEL, NECESSARY FOR FABRICATION AND PLACEMENT OF MATERIAL INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
  - FOUNDATION PLANS: INDICATE FOOTINGS, PIERS, WALLS, SLABS-ON-GRADE AND RELATED REINFORCING TO SCALE OF 1/8 INCH PER FOOT.
  - FRAMING PLANS: INDICATE REINFORCING IN STRUCTURAL SLABS, PAN JOIST SYSTEMS, AND SLABS ON METAL DECK AT SCALE OF 1/8 INCH PER FOOT.
  - SECTIONS AND DETAILS: INDICATE ALL PERTINENT CONSTRUCTION FEATURES AND RELATED REINFORCING TO SCALE AS LARGE AS PRACTICABLE. ON REINFORCED MASONRY SHOP DRAWINGS INDICATE BOND BEAM AND SPLICE LOCATIONS ON TYPICAL FULL HEIGHT SECTIONS PLUS ALL NON-TYPICAL SECTIONS. INDICATE SPLICE LENGTHS IN SCHEDULE AND ON DETAILS.
  - REINFORCING SUPPORTS AND ACCESSORIES: INDICATE NUMBER, SIZE, TYPE, ARRANGEMENT, AND QUANTITIES REQUIRED. PROVIDE ACCESSORY AND BAR SUPPORT PLACING LAYOUTS FOR TYPICAL SLAB PANELS, JOISTS, AND BEAMS.
  - ACCESSORIES SHALL BE GALVANIZED OR PLASTIC TYPED WHERE CONCRETE IS EXPOSED. PAINTED OR PLASTERED.
  - MISCELLANEOUS ITEMS: INDICATE OPENINGS, DEPRESSIONS AND RELATED REINFORCING. DRAW OTHER REINFORCED CONCRETE ITEMS AT SUFFICIENT SCALE TO CLEARLY SHOW REINFORCING LOCATION. REPRODUCTIONS OF CONTRACT DOCUMENTS ARE NOT ACCEPTABLE. A/E REVIEW OF PLACING DRAWINGS IS ONLY FOR GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. DESIGN OF FORMWORK FOR STRUCTURAL ADEQUACY IS CONTRACTOR'S RESPONSIBILITY.

**WOOD FRAMING**

- STRUCTURAL SAWN LUMBER, END-JOINTED LUMBER, PREFABRICATED WOOD TRUSSES, STRUCTURAL GLUED-LAMINATED TIMBER, WOOD STRUCTURAL PANELS, PRESERVATIVE-TREATED WOOD, STRUCTURAL COMPOSITE LUMBER, FIRE-RETARDANT-TREATED WOOD, WOOD TRUSSES, JOIST HANGERS, AND NAILS SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE.
- FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%. FRAMING LUMBER FOR SHEAR WALLS AND LOAD-BEARING WALLS SHALL BE EQUAL TO OR BETTER THAN NO. 1 AND 2 GRADE HEM-FIR (NORTH). FRAMING LUMBER FOR ROOF JOISTS, BEAMS, AND HEADERS SHALL BE EQUAL TO OR BETTER THAN NO. 2 GRADE SOUTHERN PINE. NAILING SHALL BE ACCORDING TO FASTENING SCHEDULE IN INTERNATIONAL BUILDING CODE 2021 WHERE NOT SHOWN OTHERWISE.
- WOOD STRUCTURAL PANEL DIAPHRAGM AND SHEAR WALL SHEATHING: WOOD STRUCTURAL PANELS USED FOR WALL SHEATHINGS AND DIAPHRAGMS, INCLUDING ROOF SHEATHING, SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN U.S. DEPARTMENT OF COMMERCE STANDARDS PS-1 AND PS-2.
- WOOD STRUCTURAL SHEATHING AT ROOF DECK SHALL BE 23/32" THICK APA RATED SHEATHING WITH EXPOSURE 1 DURABILITY CLASSIFICATION. CONNECT ROOF SHEATHING TO FRAMING MEMBERS AS INDICATED.
- WALL WOOD STRUCTURAL SHEATHING SHALL BE 15/32" THICK APA RATED SHEATHING WITH EXPOSURE 1 DURABILITY CLASSIFICATION AT ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS WHERE INDICATED. CONNECT WALL SHEATHING TO FRAMING MEMBERS AS INDICATED. PROVIDE BLOCKING AT ABUTTING PANEL EDGES AS INDICATED. PROVIDE DOUBLE STUDS AND DOUBLE LOCKING AT ABUTTING PANEL EDGES AS INDICATED.
- UNLESS OTHERWISE NOTED, PROVIDE DOUBLE STUDS BESIDE ALL OPENINGS AND EACH SIDE OF HOLD DOWN ANCHORS, TRIPLE STUDS UNDER BEAM BEARINGS.
- UNLESS OTHERWISE NOTED, USE MINIMUM 16 GAGE GALVANIZED STEEL LIGHT GAGE JOIST HANGERS AND FRAMING ANCHORS SIZED FOR FULL LOAD CARRYING CAPACITY OF SUPPORTED MEMBERS.
- AT STRUCTURAL SAWN LUMBER JOISTS, PROVIDE SOLID WOOD BLOCKING AT SUPPORTS, END OF CANTILEVERS, HALFWAY BETWEEN SUPPORTS AND END OF CANTILEVER, AND 8'-0" ON CENTER MAXIMUM OF ANY HORIZONTAL SPAN.
- PROVIDE BRIDGING IN ROOF FRAMING IN ACCORDANCE WITH APPLICABLE CODES, UNLESS NOTED OTHERWISE.
- DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
- MAKE ALL CUTS TRUE AND SQUARE FOR BEARINGS AT STRUCTURAL JOINTS.
- BOY HOLES AND PLATES TO BE PLACED AS SHOWN ON DETAILS. PROVIDE SPECIFIED SPACINGS, EDGE DISTANCE, AND END DISTANCE.
- WOOD CONNECTORS AND HOLD-DOWN ANCHORS, INDICATED ON PLANS, SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR EQUIVALENT APPROVED BY ENGINEER.
- UNLESS NOTED OTHERWISE, NAIL TOGETHER MULTIPLE MEMBERS WITH 6 NAILS PER FOOT STAGGERED EACH EDGE.
- UNLESS NOTED OTHERWISE, CONNECTIONS OF MULTIPLE PIECES OF ENGINEERED MEMBERS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- TEMPORARY AND PERMANENT BRACING OF PREFABRICATED WOOD TRUSSES SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE IBC2021 WHERE NOT SHOWN OTHERWISE.

**WOOD STRUCTURAL PANEL SHEATHING**

- WOOD STRUCTURAL PANEL SHEATHING AND FASTENERS SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE.
- WOOD STRUCTURAL PANEL SHEATHING FOR SHEAR WALLS SHALL CONFORM TO DCC-PS1 AND PS2.
- WOOD SHEATHING FOR SHEAR WALLS SHALL BE 15/32" THICK, STRUCTURAL 1 PANEL GRADE, APA RATED SHEATHING WITH EXPOSURE 1 DURABILITY CLASSIFICATION. CONNECT WALL SHEATHING TO FRAMING MEMBERS AS INDICATED.
- ALL PANEL EDGES OF SHEAR WALL SHEATHING SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKED. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM OF 20 GAUGE WITH A MINIMUM WIDTH OF 1 1/2".
- STRUCTURAL PANELS FOR SHEAR WALL SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING.
- WOOD STRUCTURAL PANEL SHEATHING SHALL BE ARRANGED SO THAT THE MINIMUM PANEL WIDTH IS NOT LESS THAN 24" AT THE SHEAR WALLS.

**POST-INSTALLED CONCRETE ANCHORS**

- MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC308. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
  - "KWIK BOLT 1/2" BY HILTI, INC.
  - "STRONG-BOLT 2" BY SIMPSON STRONG-TIE CO., INC.
  - "POWER-STUD" #302 BY POWERS FASTENERS, INC.
- CARBON STEEL SCREW ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC308. PRE-APPROVED CARBON STEEL SCREW ANCHORS INCLUDE:
  - "KWIK-HUEZ KH-EZZY" BY HILTI, INC.
  - "TITEN HD" BY SIMPSON STRONG-TIE CO., INC.
  - "MEDIE-BOLT #1" BY POWERS FASTENERS, INC.
- ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
  - "HT-RE-500" BY HILTI, INC.
  - "SET X9" BY SIMPSON STRONG-TIE CO., INC.
  - "RE-1000" BY POWERS FASTENERS, INC.
  - "HT-HY200" BY HILTI, INC.
- THE ADDED ROD ANCHORS SHALL MEET THE REQUIREMENTS OF ASTM A36 OR ASTM A193 GRADE B7. REBAR ANCHORS INSTALLED IN ADHESIVE SHALL MEET THE REQUIREMENTS OF ASTM A706, ASTM A615 BARS MAY BE USED PROVIDED MILL TESTS ARE SUBMITTED TO A/E SHOWING THAT THE ACTUAL YIELD STRENGTH DOES NOT EXCEED 1/4 BY MORE THAN 18,000 PSI AND THE RATIO OF THE ACTUAL TENSILE STRENGTH TO ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. HOLES SHALL BE DRILLED AND CLEANED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT CUT EXISTING REBAR.

**JOHNSON COUNTY ARKANSAS COURT ADDITION & RENOVATION**

301 PORTER INDUSTRIAL ROAD  
CLARKSVILLE, ARKANSAS 72830



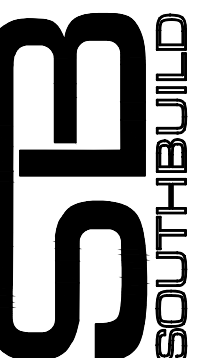
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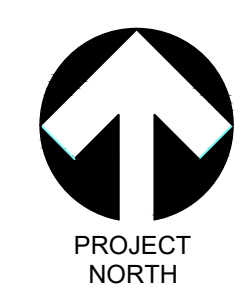
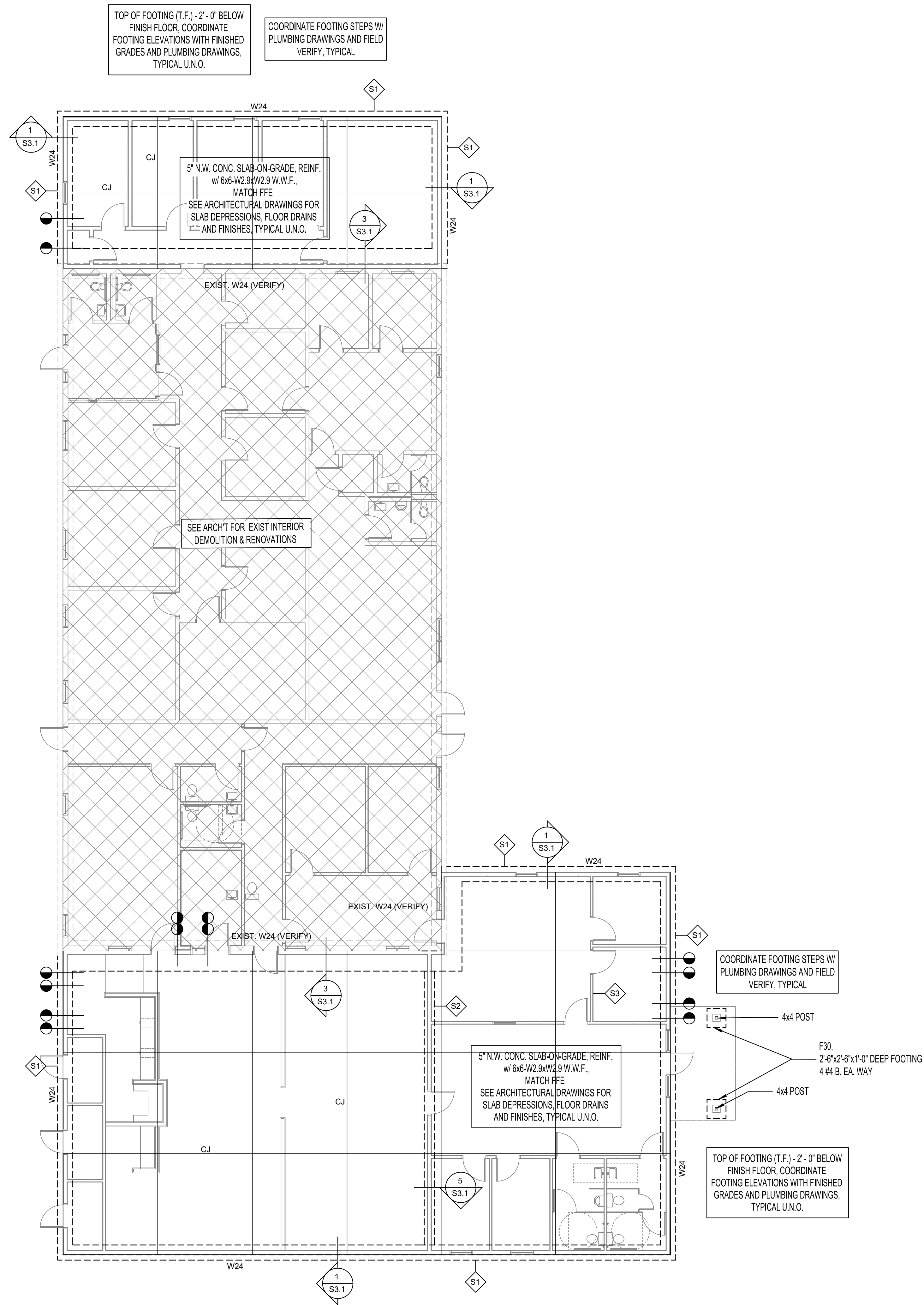
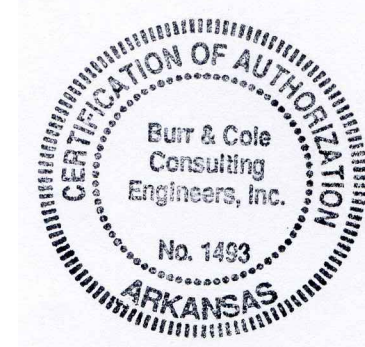
SHEET TITLE  
**GENERAL NOTES**

DATE  
**01/21/25**

PROJECT NO.  
**24-009A**

SHEET NO.  
**S0.1**





**1** FIRST FLOOR FOUNDATION PLAN  
**S1.1** SCALE: 1/8" = 1'-0"

NO.	DATE	REVISION

# JOHNSON COUNTY ARKANSAS COURT ADDITION & RENOVATION

301 PORTER INDUSTRIAL ROAD  
 CLARKSVILLE, ARKANSAS 72830



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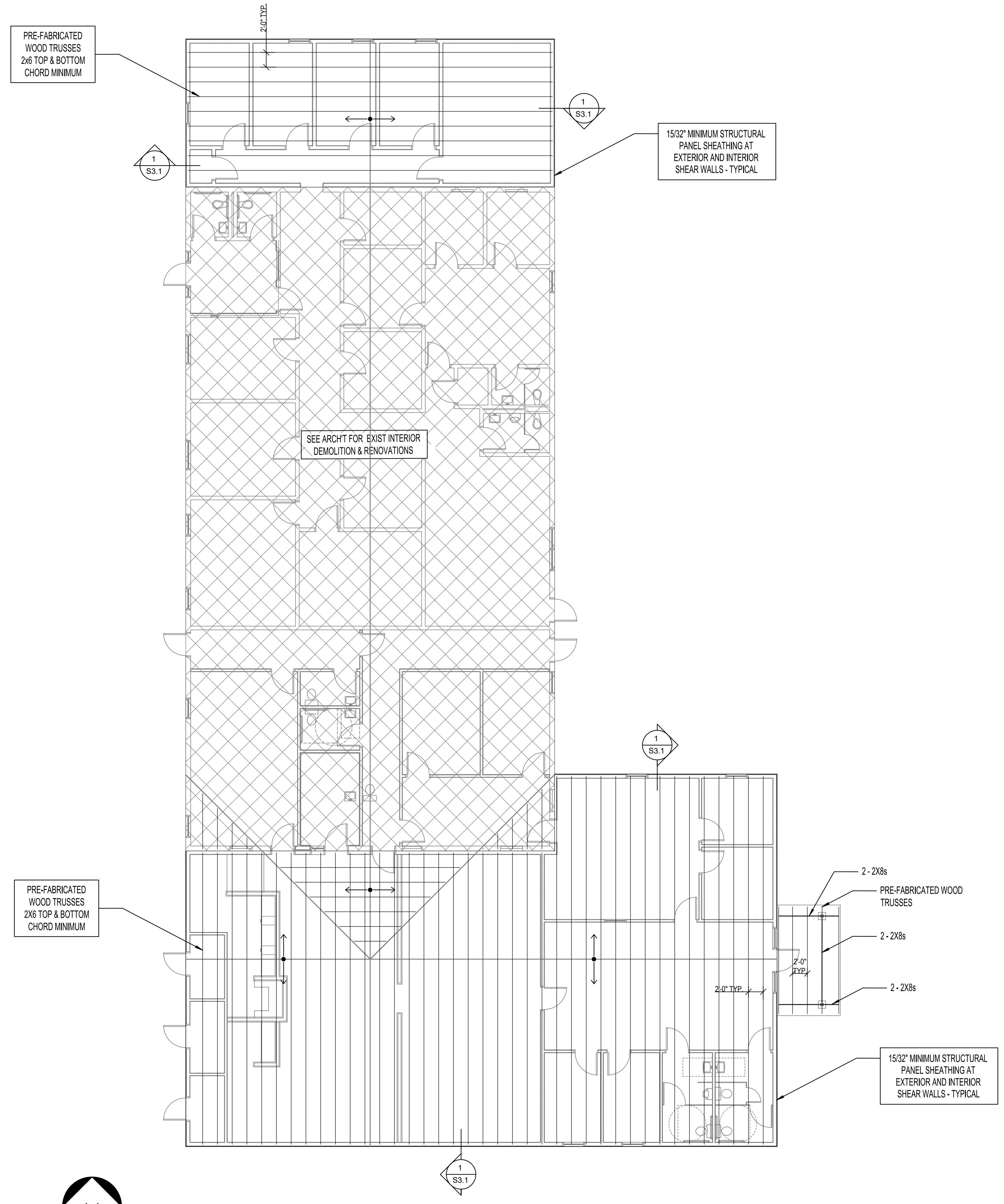
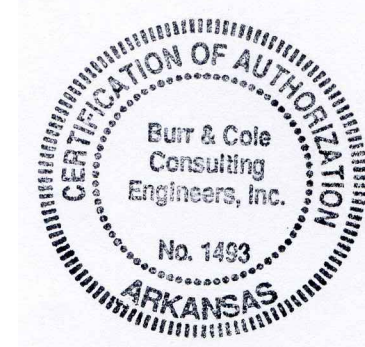
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SHEET TITLE	FIRST FLOOR FOUNDATION PLAN
DATE	01/21/25
PROJECT NO.	24-009A
SHEET NO.	S1.1





**1** ROOF FRAMING PLAN  
**S1.2** SCALE: 1/8" = 1'-0"

NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
 COURT ADDITION & RENOVATION**  
 301 PORTER INDUSTRIAL ROAD  
 CLARKSVILLE, ARKANSAS 72830



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 www.spiritarchitecture.com

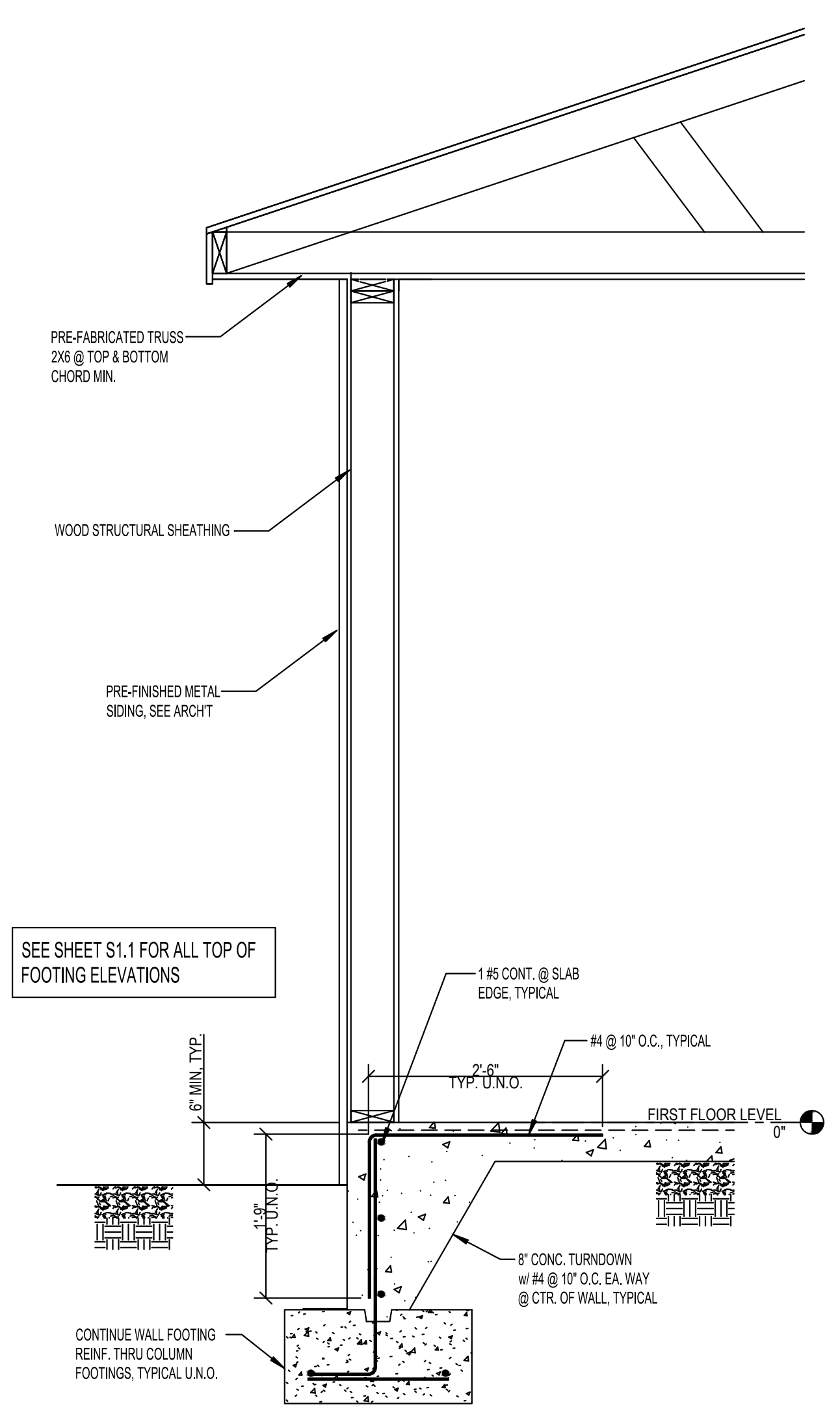
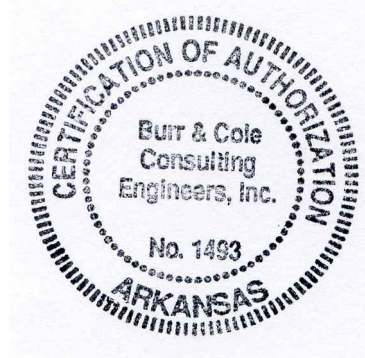
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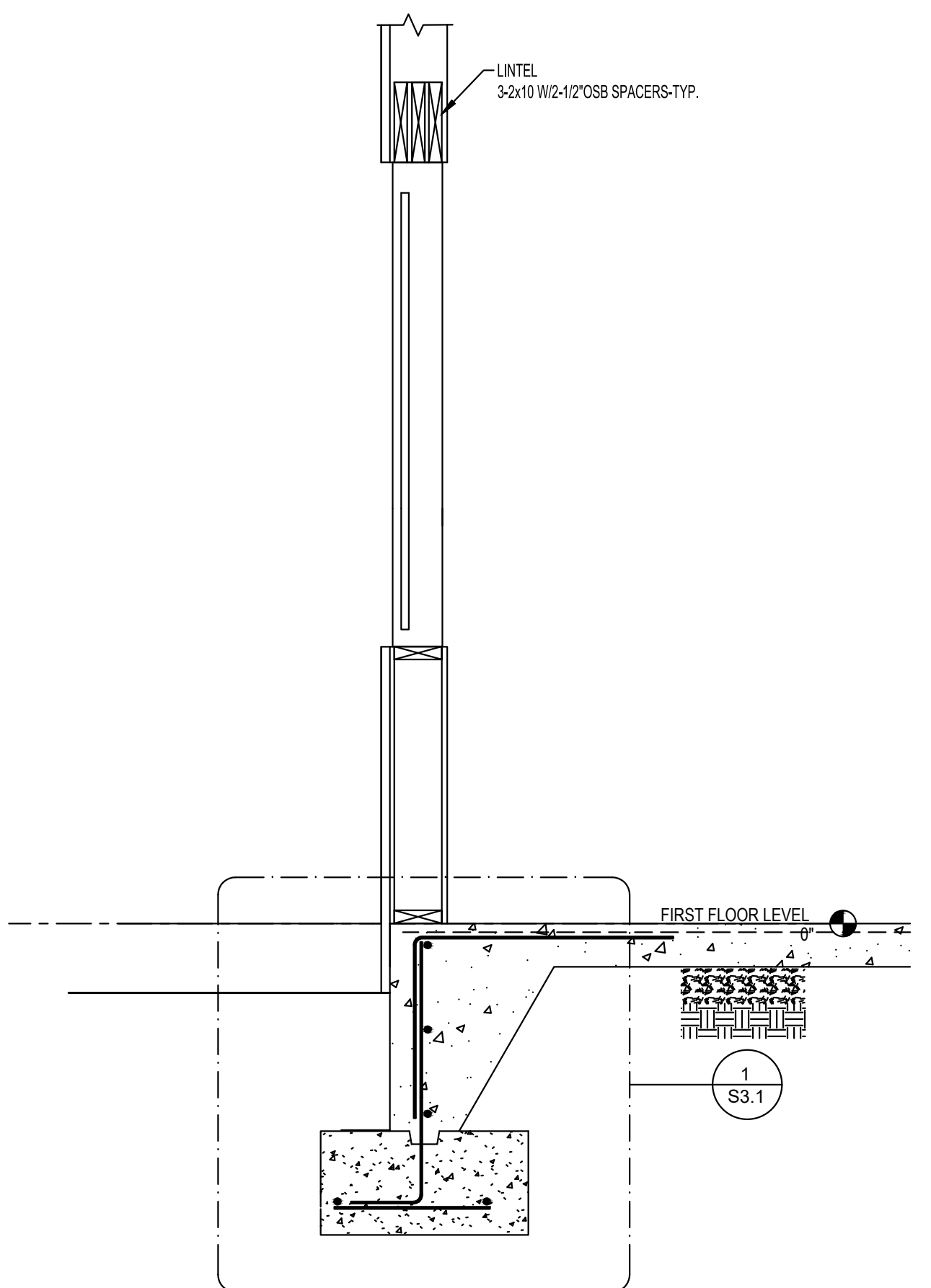


SHEET TITLE	ROOF FRAMING PLAN
DATE	01/21/25
PROJECT NO.	24-009A
SHEET NO.	<b>S1.2</b>

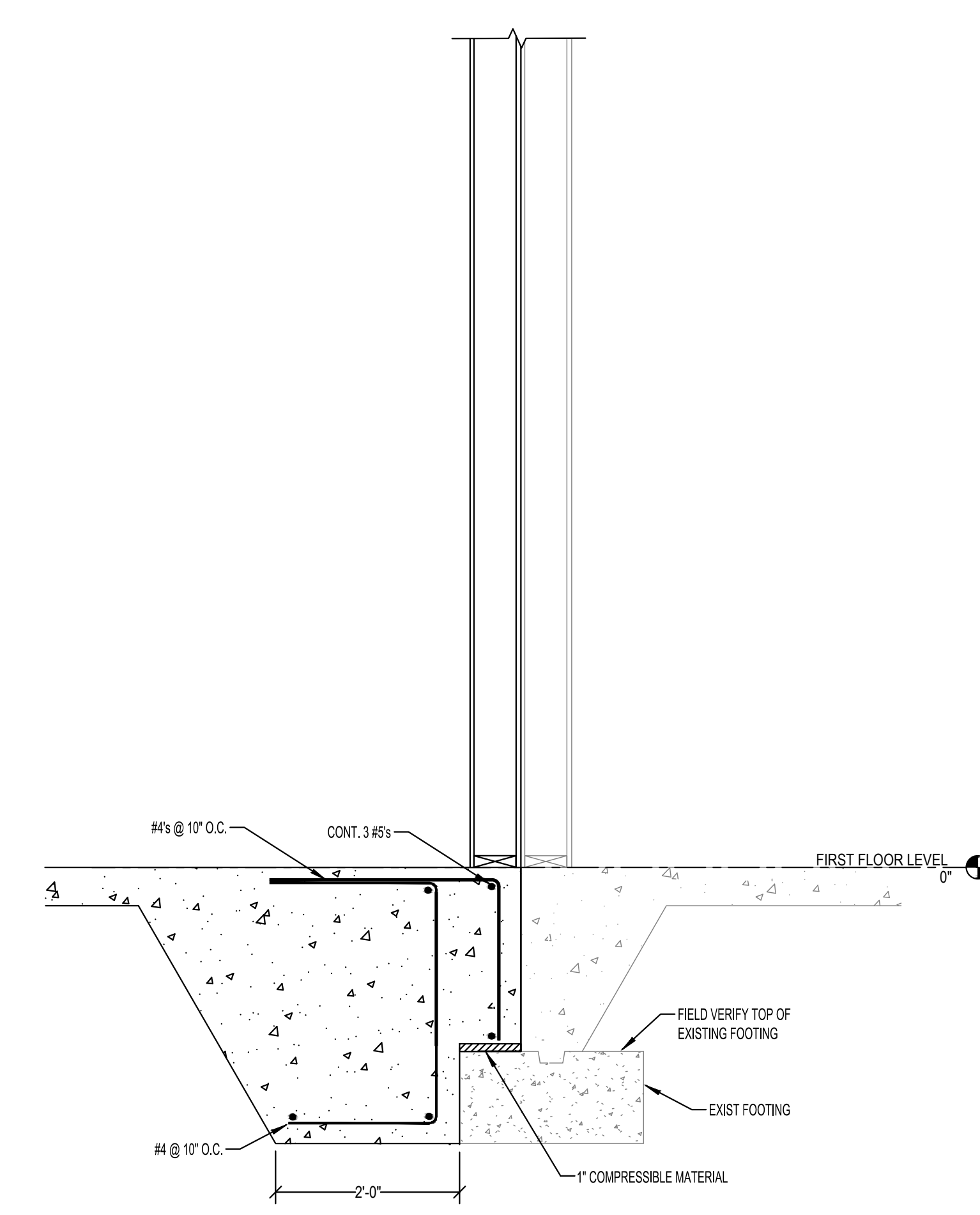




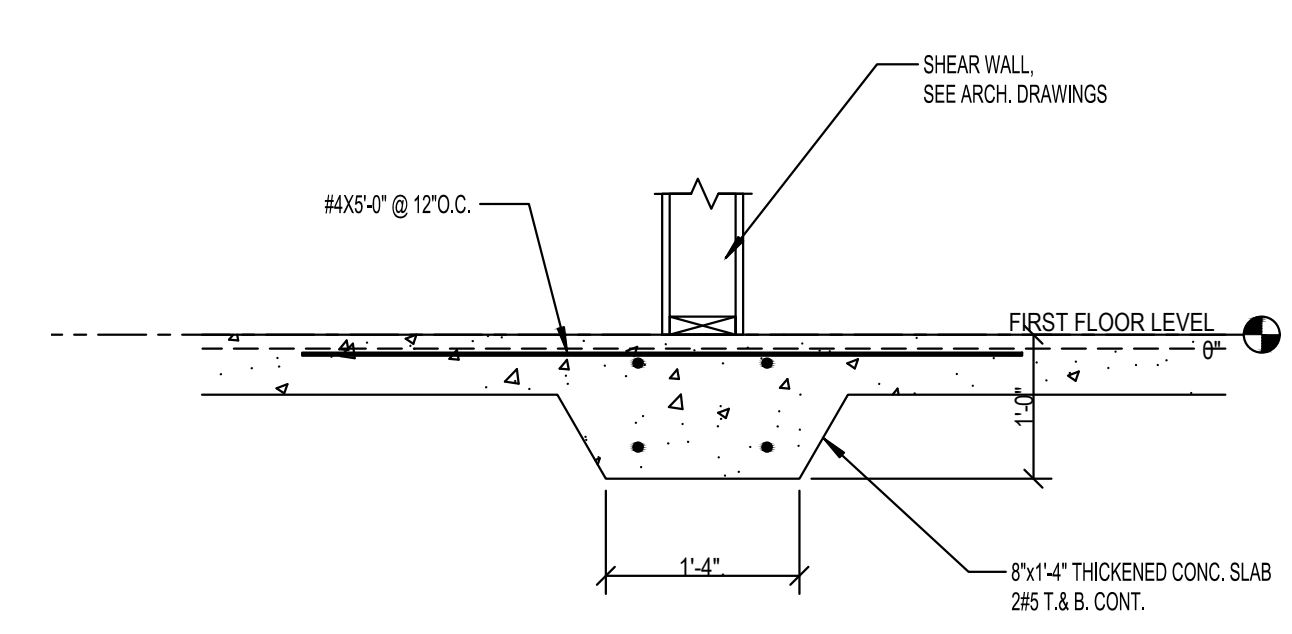
1  
S3.1 TYPICAL SECTION  
SCALE: 3/4" = 1'-0"



2  
S3.1 SECTION AT WINDOW  
SCALE: 3/4" = 1'-0"



3  
S3.1 SECTION AT EXIST BLDG.  
SCALE: 3/4" = 1'-0"



5  
S3.1 THICKENED SLAB DETAIL  
SCALE: 3/4" = 1'-0"

4  
S3.1 NOT USED  
SCALE: 3/4" = 1'-0"

NO.	DATE	REVISION

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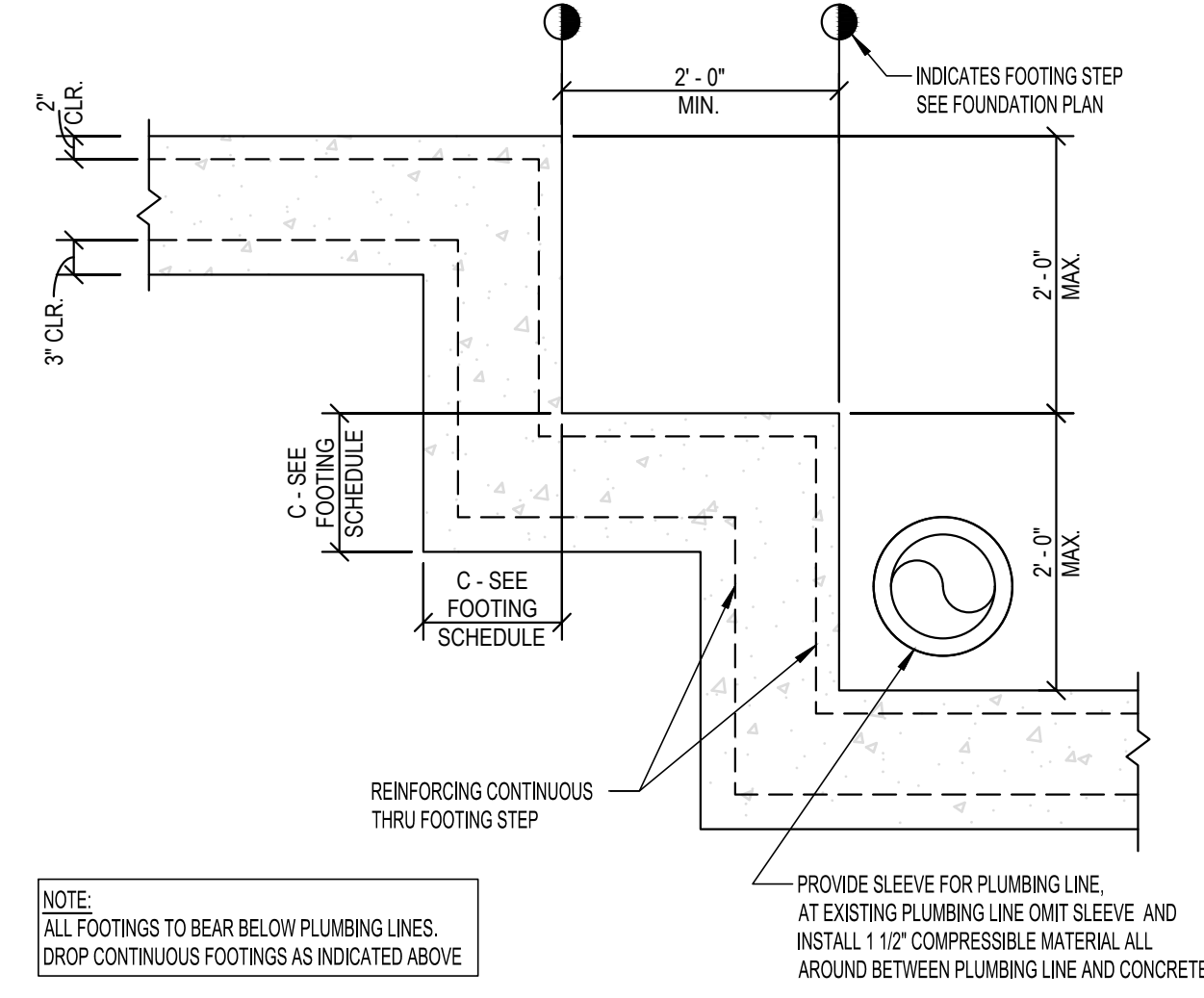
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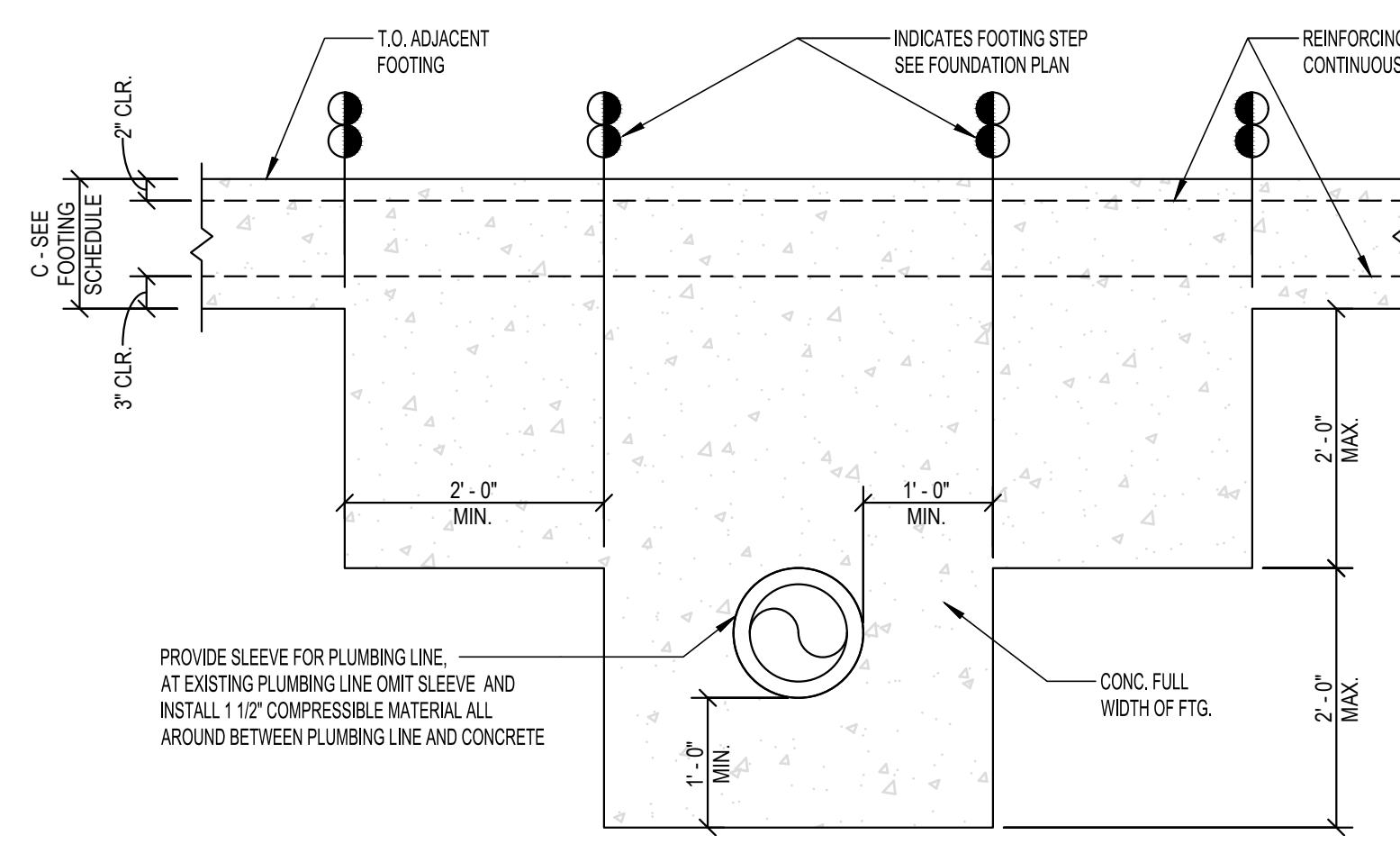


SHEET TITLE	SECTIONS
DATE	01/21/25
PROJECT NO.	24-009A
SHEET NO.	S3.1

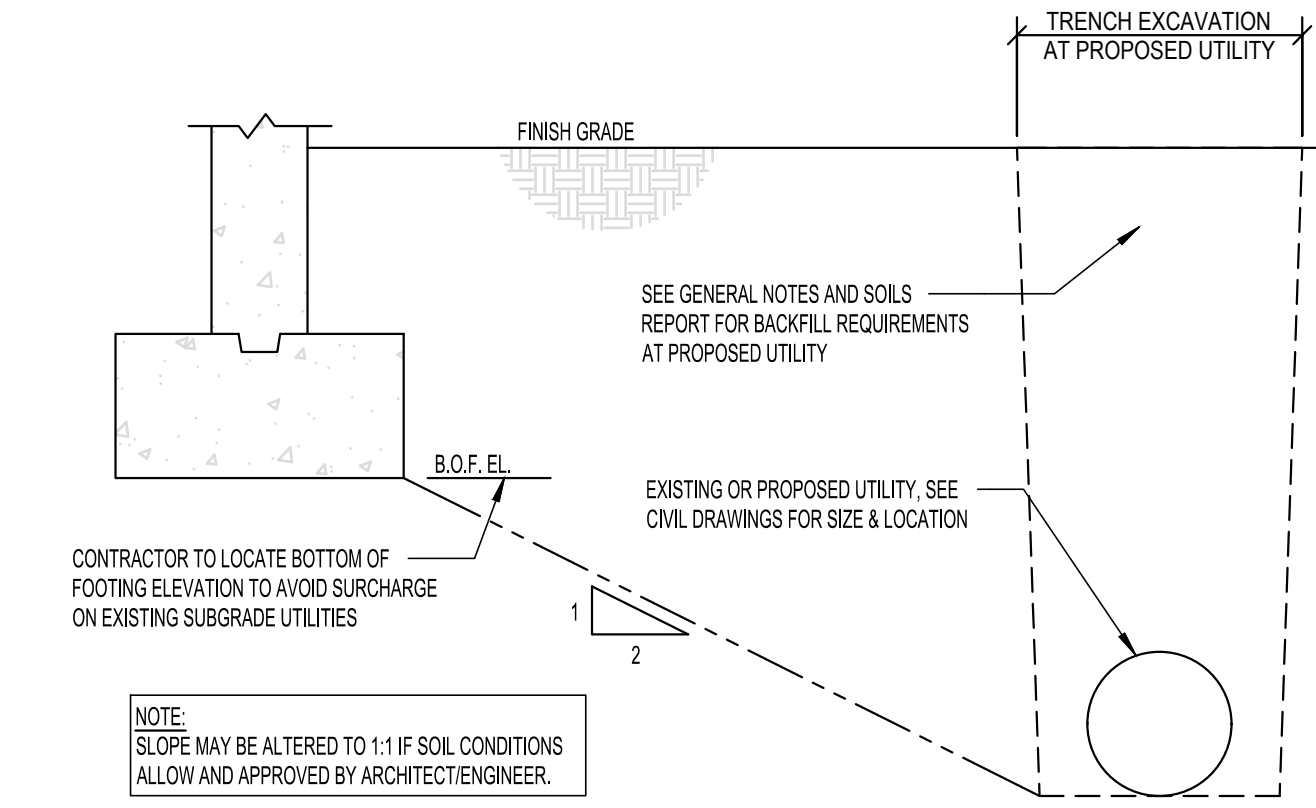




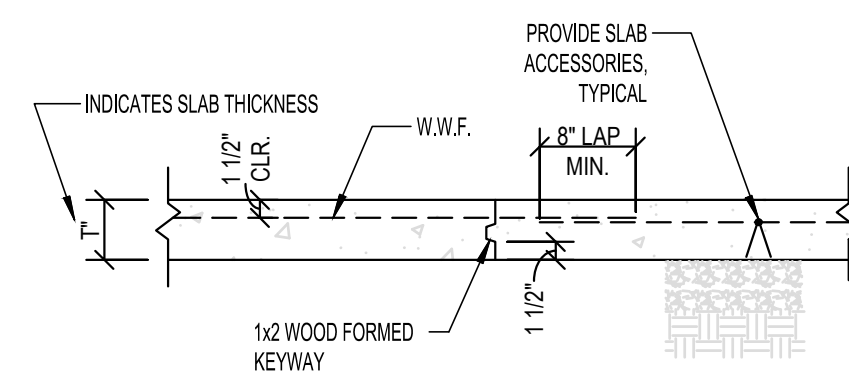
1 CONTINUOUS FOOTING STEP DETAIL (U.N.O.)  
S4.1 SCALE: 3/4" = 1'-0"



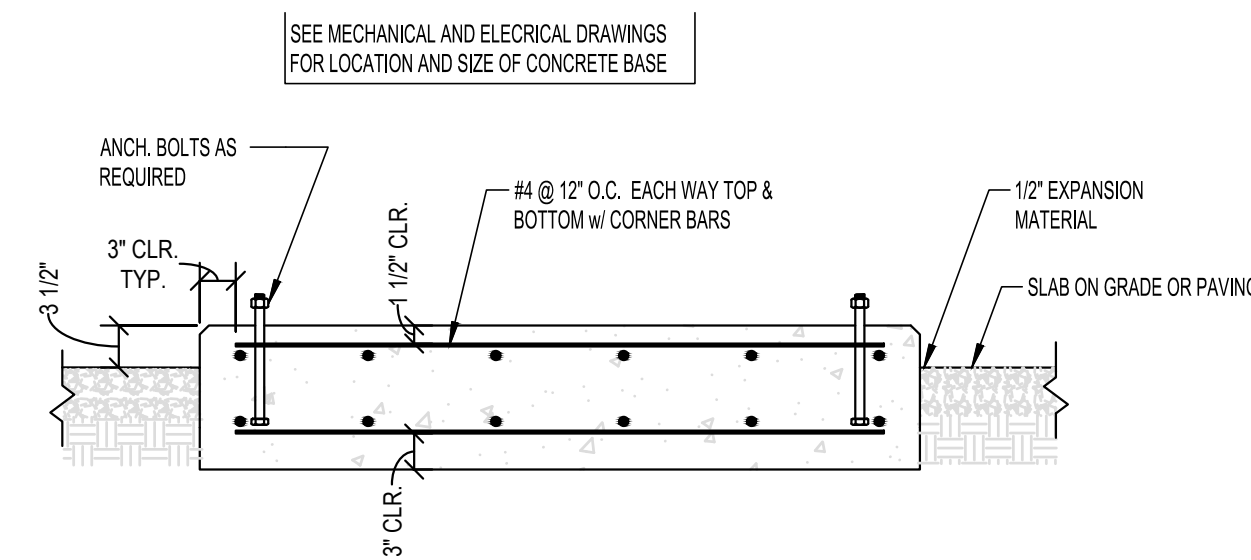
2 CONTINUOUS FOOTING STEP DETAIL  
S4.1 SCALE: 3/4" = 1'-0"



3 FOOTING PARALLEL TO UTILITY  
S4.1 SCALE: 3/4" = 1'-0"

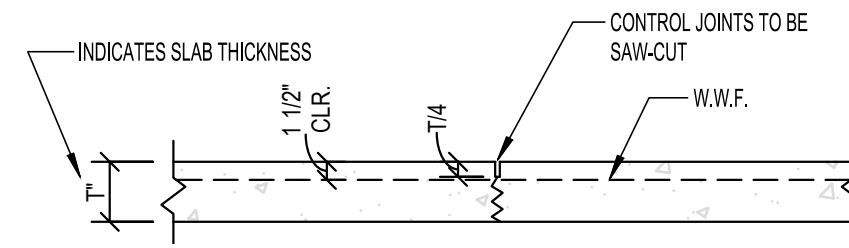


4 CONSTRUCTION JOINT IN SLAB ON GRADE  
S4.1 SCALE: 3/4" = 1'-0"

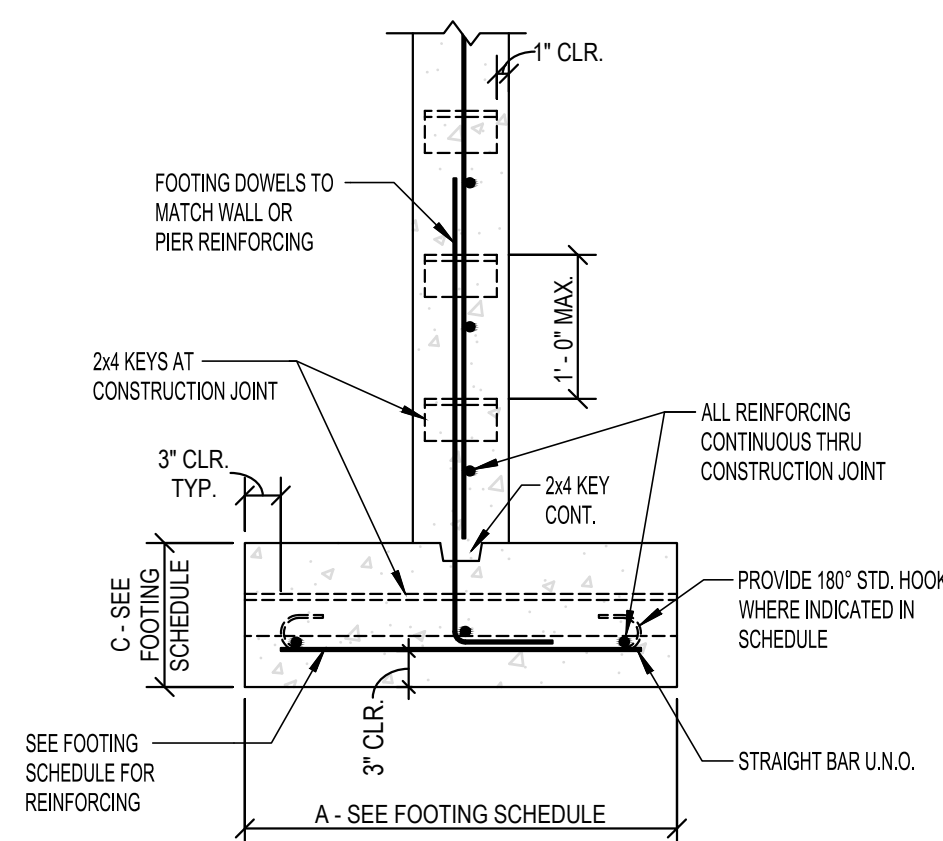


6 CONCRETE BASE DETAIL  
S4.1 SCALE: 3/4" = 1'-0"

MARK	SIZE		REINFORCING		NOTES
	A	B	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING	
W24	2'-0"	CONT.	1'-0"	2#5 CONT.	#4 @ 24" O.C.



5 CONTROL JOINT IN SLAB ON GRADE  
S4.1 SCALE: 3/4" = 1'-0"



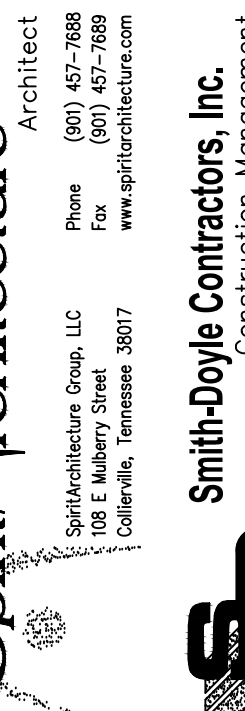
10 CONTINUOUS FOOTING AND FOUNDATION WALL DETAIL  
S4.1 SCALE: 3/4" = 1'-0"

**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**

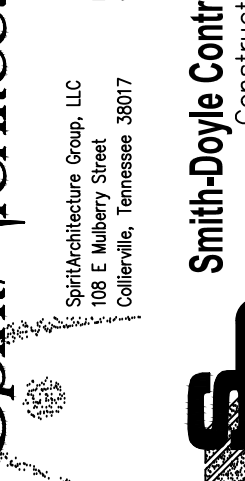
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CLARKSVILLE, ARKANSAS 72830



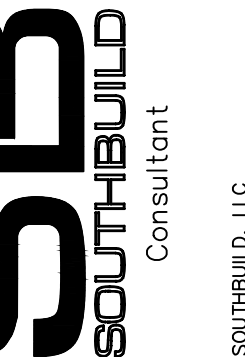
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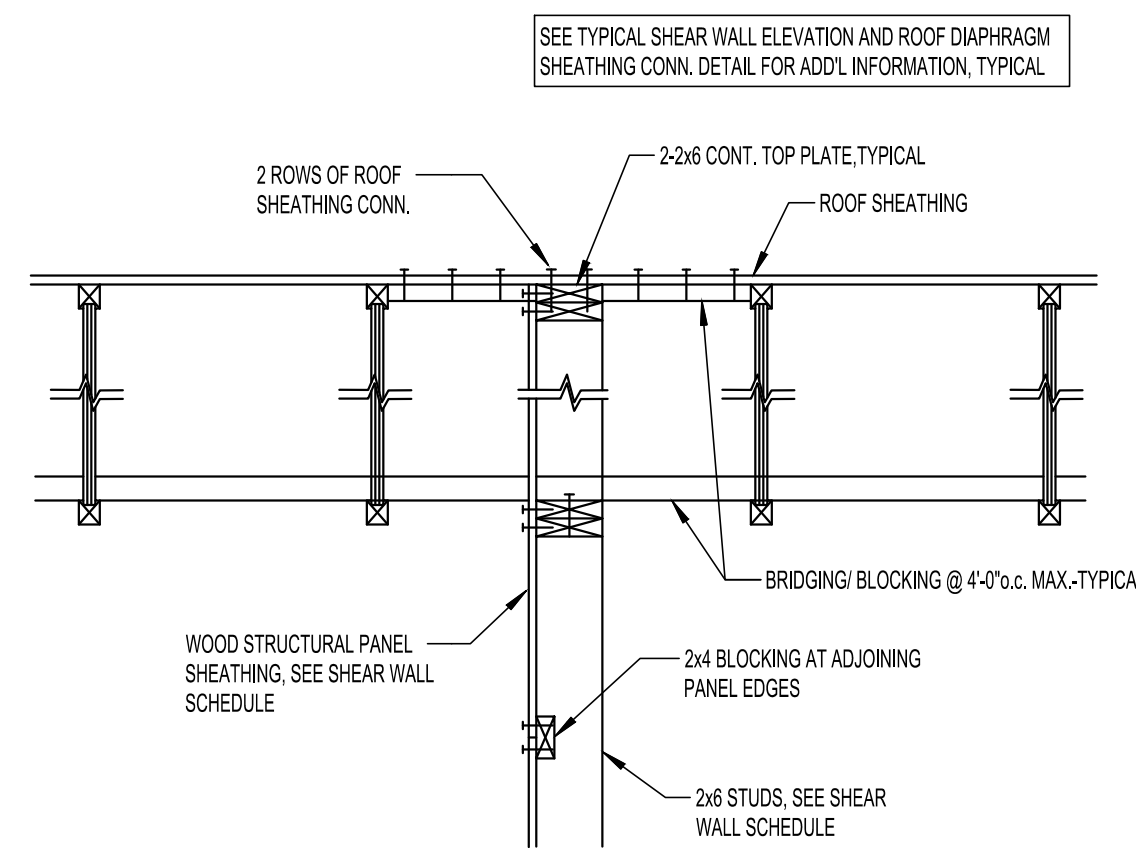
SHEET TITLE  
**TYPICAL DETAILS**

DATE  
**01/21/25**

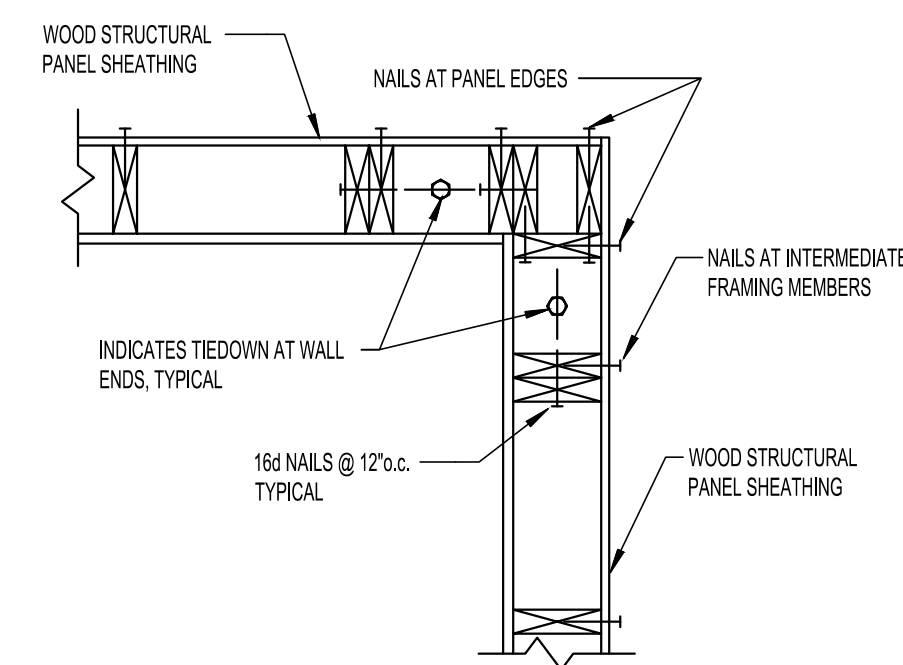
PROJECT NO.  
**24-009A**

SHEET NO.  
**S4.1**

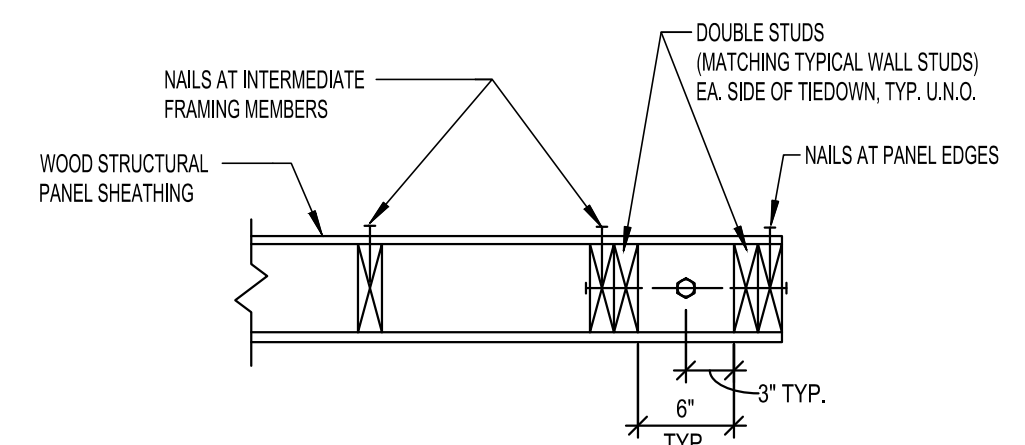




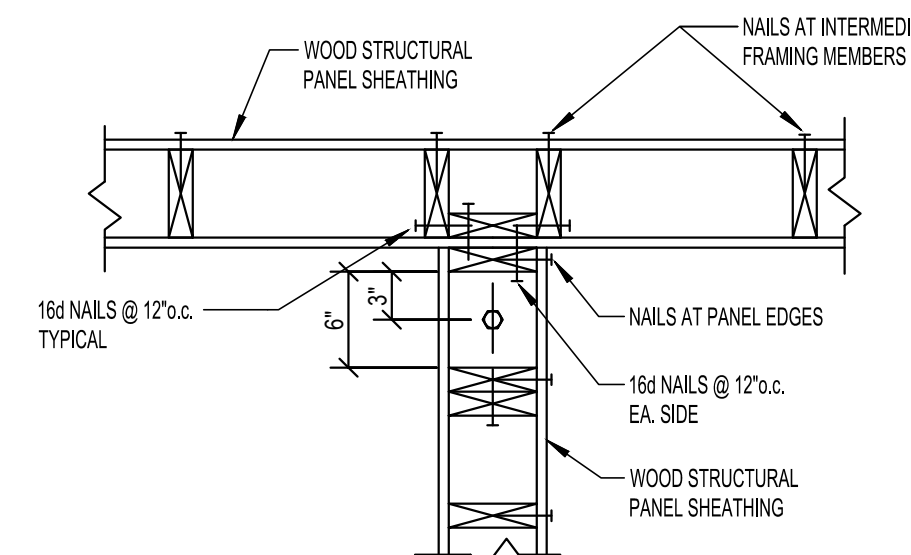
**1**  
**S4.2** TYPICAL SECTION AT JOIST PARALLEL TO WALL  
SCALE: 3/4" = 1'-0"



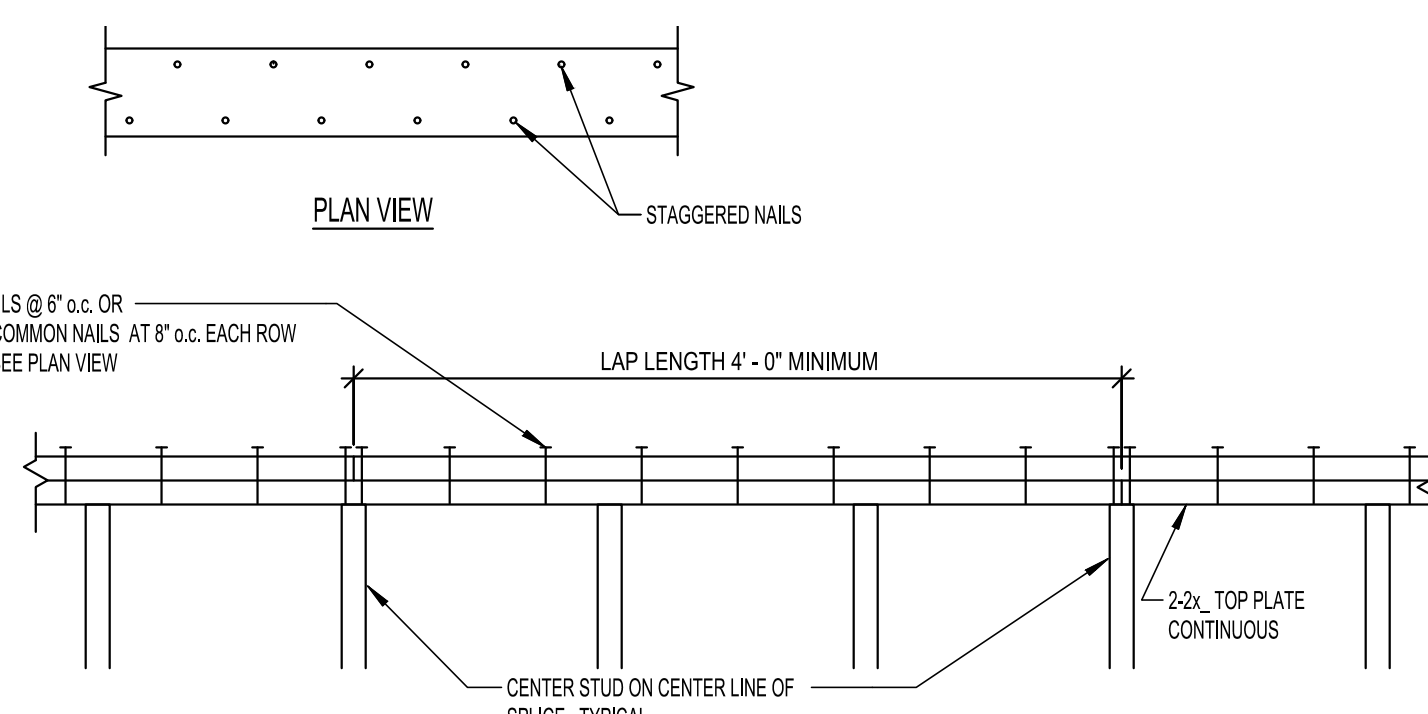
**2**  
**S4.2** EXTERIOR SHEAR WALL AT CORNER  
SCALE: 1" = 1'-0"



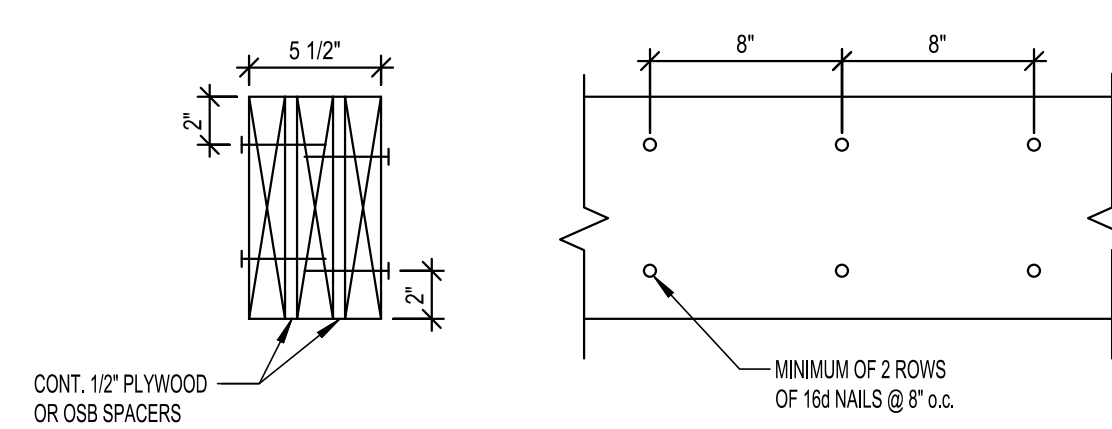
**3**  
**S4.2** SHEAR WALL AT END  
SCALE: 1" = 1'-0"



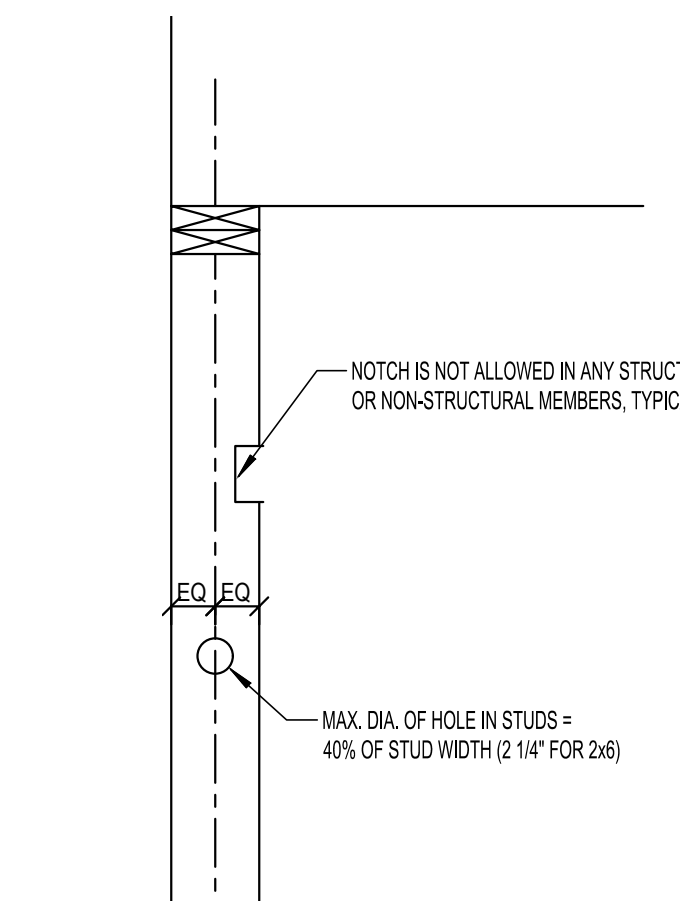
**4**  
**S4.2** INTERIOR & EXTERIOR SHEAR WALL INTERSECTION  
SCALE: 1" = 1'-0"



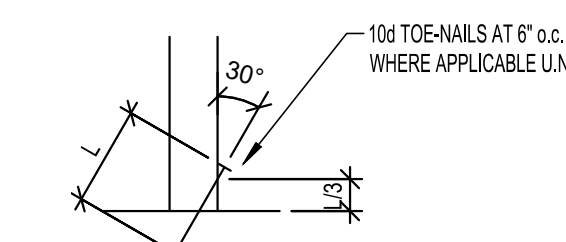
**5**  
**S4.2** TYPICAL TOP PLATE SLICE DETAIL  
SCALE: 1" = 1'-0"



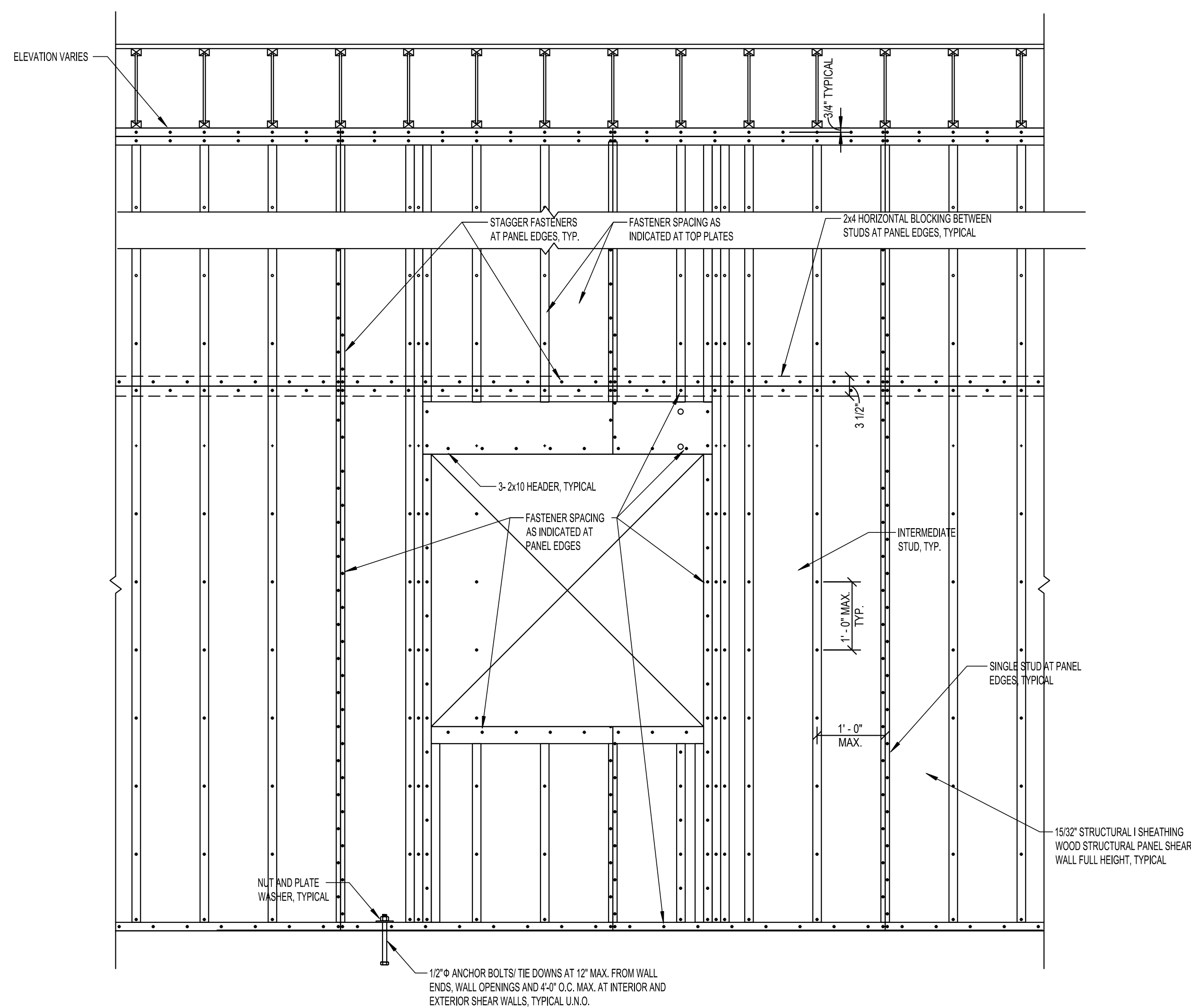
**6**  
**S4.2** 3-2x10 HEADER DETAIL (MAX. CLEAR SPAN 4' - 0")  
SCALE: 1 1/2" = 1'-0"



**9**  
**S4.2** STUD PENETRATION DETAIL  
SCALE: 1" = 1'-0"

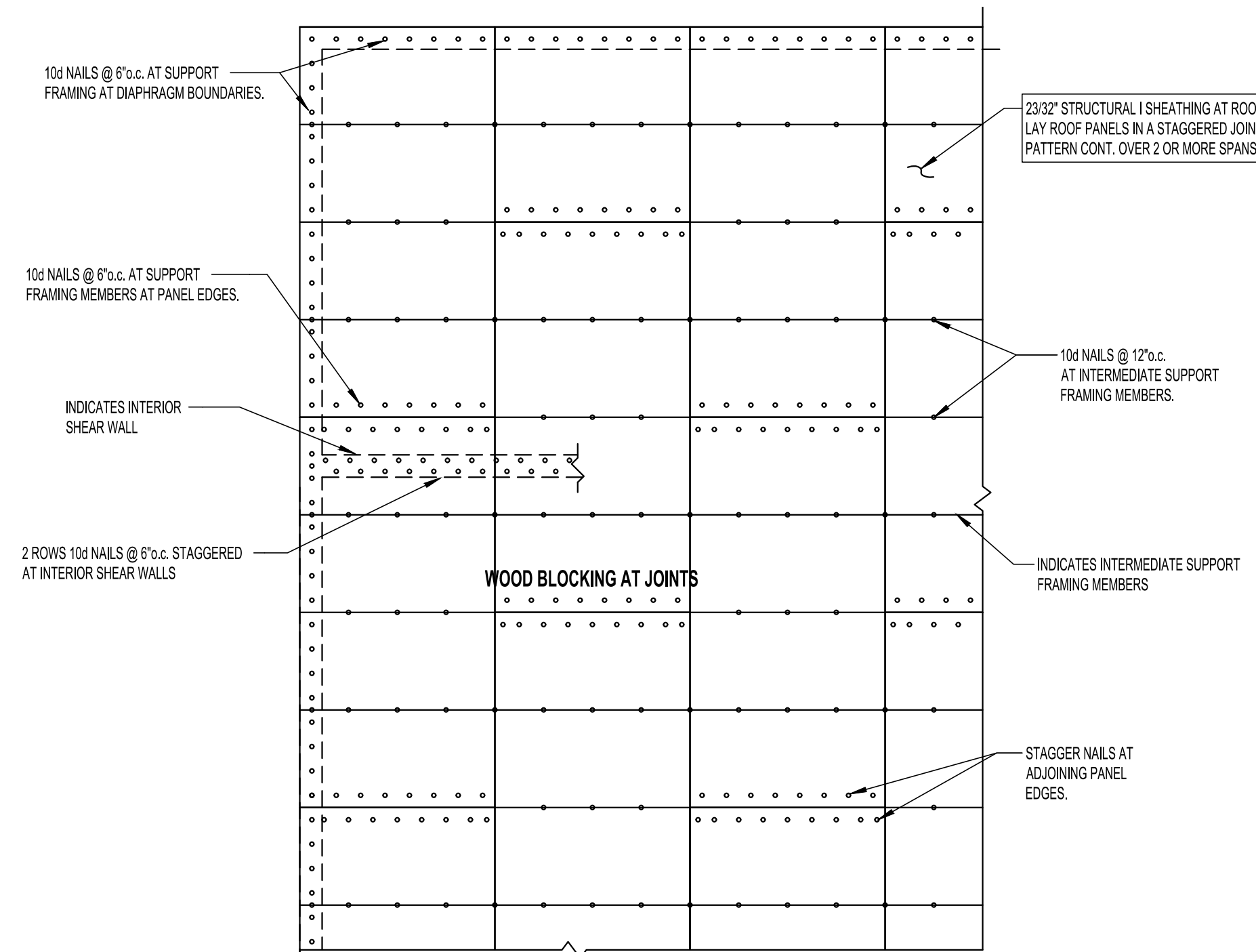


**8**  
**S4.2** TOE-NAIL CONNECTION DETAIL  
SCALE: 1" = 1'-0"



**10**  
**S4.2** SHEAR WALL TYPICAL ELEVATION  
SCALE: 3/4" = 1'-0"

WALL AND WOOD STRUCTURAL PANEL SHEAR WALL TYPE SCHEDULE (U.N.O.)		
TYPE MARK	DESCRIPTION	NOTES
S1	2X6 STUDS @ 12" O.C. w/15/32" STRUCTURAL 1 SHEATHING WOOD STRUCTURAL PANEL SHEAR WALL (EXTERIOR)	10D NAILS @ 6" O.C. MAX. FASTENER SPACING AT PANEL EDGES AND LOCATIONS INDICATED ON SHEAR WALL ELEVATIONS
S2	2X6 STUDS @ 12" O.C. w/15/32" STRUCTURAL 1 SHEATHING WOOD STRUCTURAL PANEL SHEAR WALL (INTERIOR)	10D NAILS @ 6" O.C. MAX. FASTENER SPACING AT PANEL EDGES AND LOCATIONS INDICATED ON SHEAR WALL ELEVATIONS
S3	2X6 STUDS @ 12" O.C. (INTERIOR)	NOT A SHEAR WALL

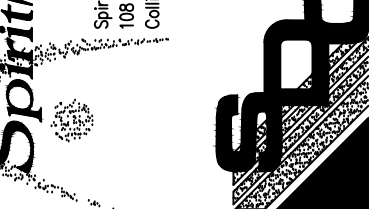


**11**  
**S4.2** TYPICAL ROOF DIAPHRAGM SHEATHING CONN. DETAIL  
SCALE: 3/4" = 1'-0"

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SHEET TITLE	TYPICAL DETAILS
DATE	01/21/25
PROJECT NO.	24-009A
SHEET NO.	S4.2







THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION OF ALL TRADES AND COMPLIANCE WITH DIMENSIONS OF EQUIPMENT TO BE INSTALLED AND FIELD CONDITIONS IS REQUIRED.

### KEYNOTES THIS SHEET (12)

1. MOUNT RETURN GRILLE FOR FURNACE WITH BOTTOM AT APPROXIMATELY 6" AFF.
2. DENOTES TRANSFER DUCT IN ATTIC. PROVIDE WITH BOTH 1" DUCT LINER AND 2" THICK EXTERNAL DUCT WRAP. PROVIDE A MINIMUM OF TWO ELBOWS IN THE DUCT FOR NOISE ATTENUATION.
3. REFRIGERANT PIPING LOCATED IN CONCEALED LOCATIONS (INSIDE WALLS, RAFTERS, STUDS, JOISTS, OR SIMILAR SPACES) SHALL BE CONTINUOUSLY PROTECTED BY SHIELD PLATES. PROTECTIVE SHIELD PLATES HAVING A MINIMUM THICKNESS OF 0.0575 INCH (NO. 16 GAGE) SHALL COVER THE AREA EXTENDING NOT LESS THAN 2 INCHES BEYOND BOTH SIDES OF THE REFRIGERANT TUBES.
4. TEST AND BALANCE COMPANY SHALL PROVIDE A LOCKING SCREW OR BOLT ON THE MANUAL BALANCING DAMPERS SERVING TOILET 113 AND TOILET 116 SO THAT THE DAMPERS CANNOT BE CLOSED TO UNDER A 25% OPEN POSITION. THIS IS REQUIRED TO COMPLY WITH CODE FOR MINIMUM SPACE VOLUMES REQUIRED FOR TYPE A2L REFRIGERANTS.



NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
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STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 1077  
12/12/25  
J. M. SINGER

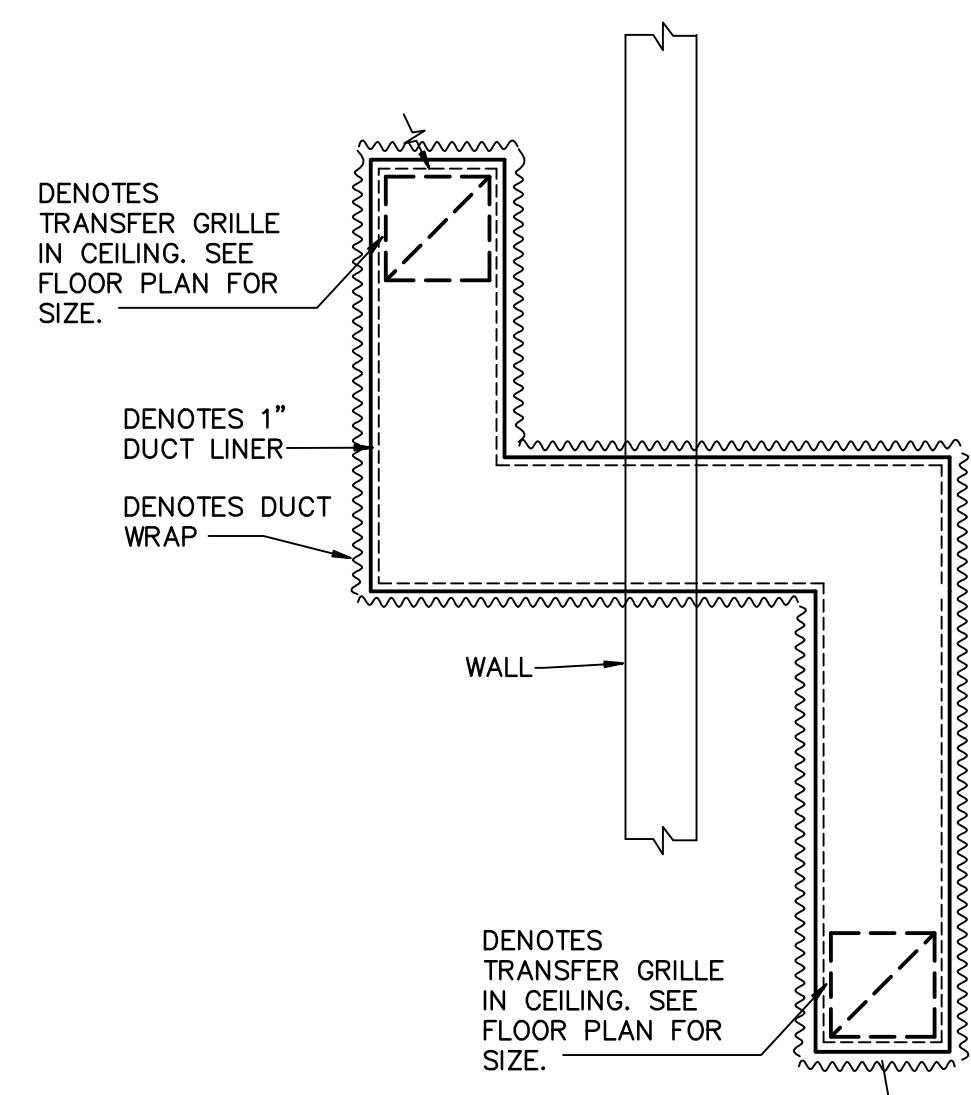
SHEET TITLE  
**FLOOR PLANS - HVAC**

DATE  
1/21/25

PROJECT NO.  
24-009A

SHEET NO.  
**H1.0**

24 of 55

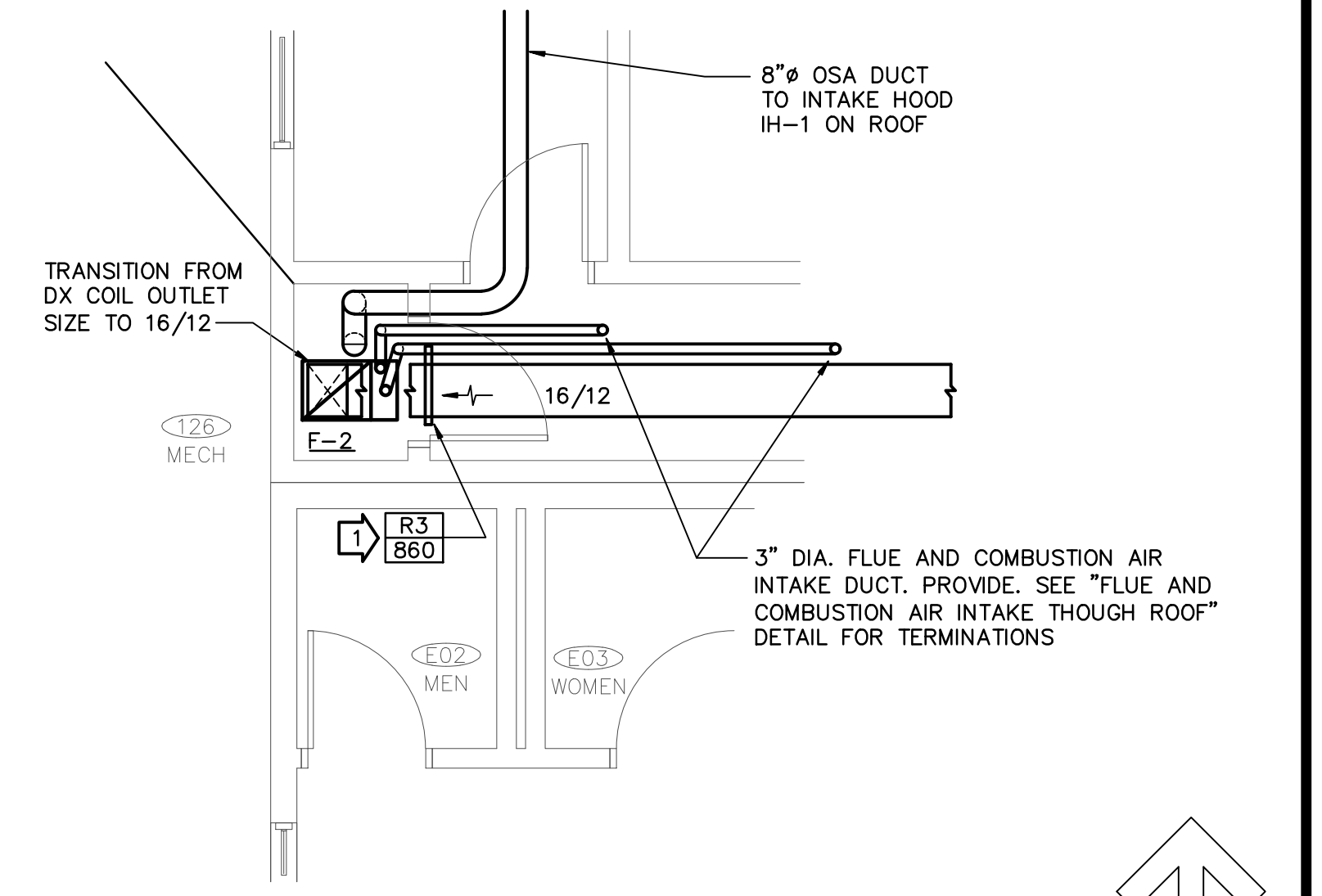
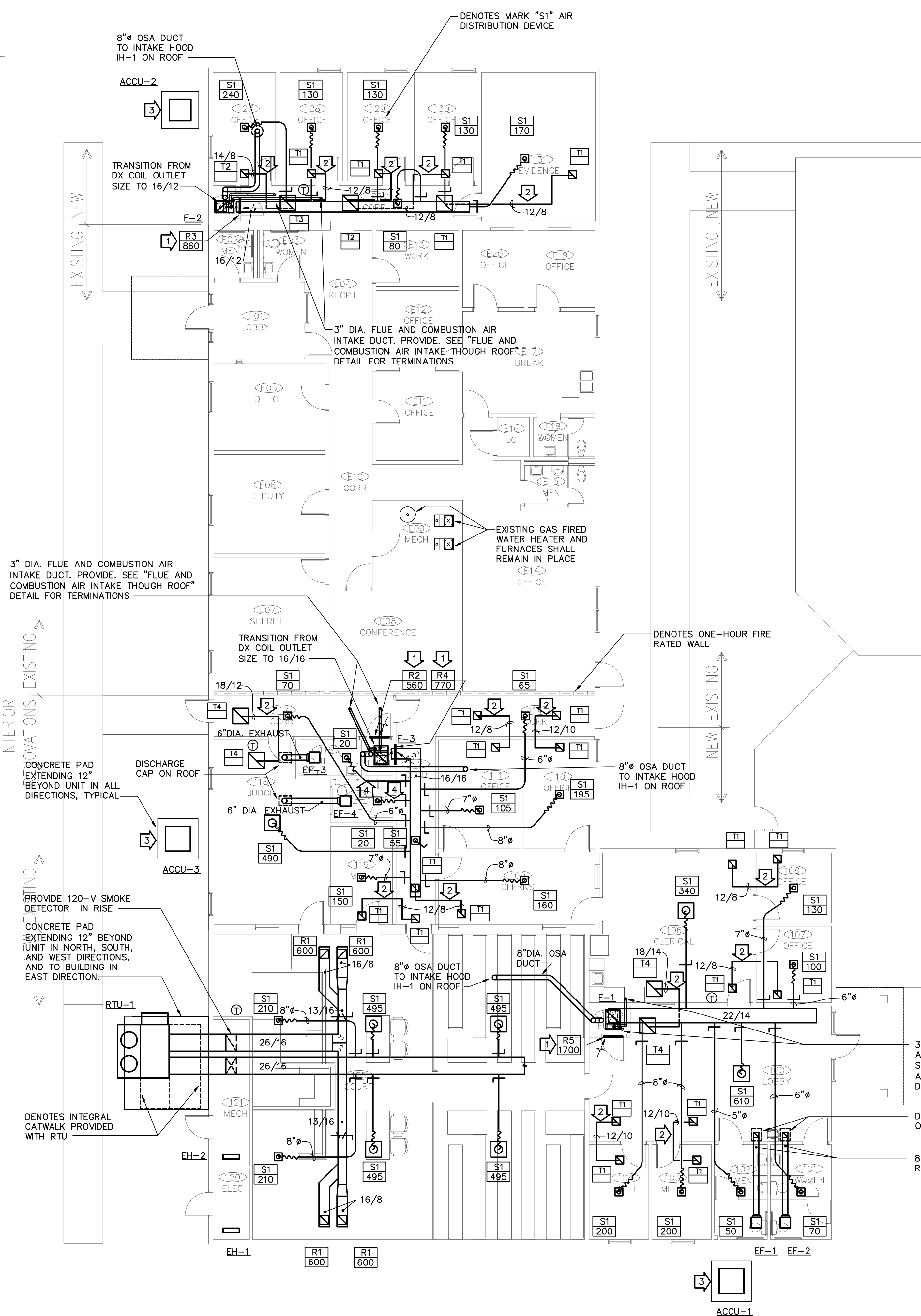


- NOTES**
1. SEE FLOOR PLANS FOR SIZES AND ACTUAL CONFIGURATIONS.
  2. TRANSFER DUCTS CAN BE Z-SHAPED OR U-SHAPED AS LONG AS THEY HAVE A MINIMUM OF TWO ELBOWS FOR SOUND ATTENUATION.
  3. PROVIDE WITH BOTH INTERNAL DUCT LINER (FOR SOUND) AS WELL AS EXTERNAL DUCT WRAP. SUPPORT FROM TRUSSES.
  4. WHERE TWO TRANSFER DUCTS CONNECT TO A SINGLE TRANSFER GRILLE, PROVIDE DUCT PLENUM ABOVE THE GRILLE AND CONNECT TRANSFER DUCTS TO EACH SIDE OF THE PLENUM.

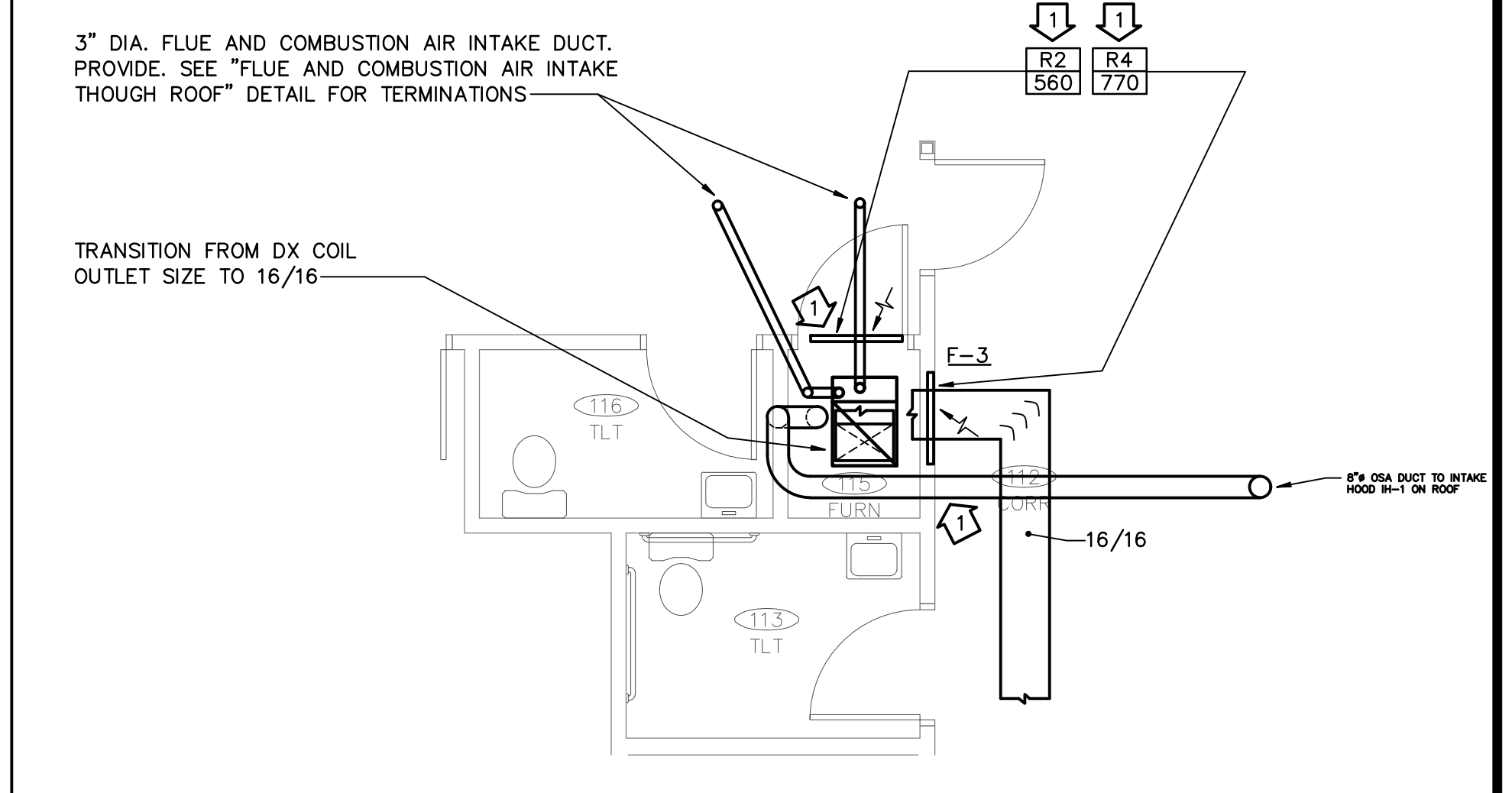
**TRANSFER DUCT, TYPICAL**  
NO SCALE

### HVAC LEGEND

HVAC	HEATING, VENTILATION AND AIR CONDITIONING		DUCT CROSS SECTION - POSITIVE PRESSURE
SA	SUPPLY AIR		DUCT CROSS SECTION - NEGATIVE PRESSURE
RA	RETURN AIR		ROUND DUCT
OSA	OUTSIDE AIR		THERMOSTAT OR TEMPERATURE SENSOR
N.O.	NORMALLY OPEN		INDICATES DISCHARGE AIR (POSITIVE PRESSURE)
N.C.	NORMALLY CLOSED		INDICATES INTAKE AIR (NEGATIVE PRESSURE)
OBD	OPPOSED BLADE DAMPER		DUCT DIMENSION (FIRST FIGURE IS HORIZONTAL DIMENSION) INCHES
AFF	ABOVE FINISHED FLOOR		DIMENSION OTHER THAN DUCT DIMENSION
H.O.A.	HAND - OFF - AUTOMATIC		AIR DISTRIBUTION DEVICE
DIA	DIAMETER		DENOTES FLEXIBLE DUCT
MAX.	MAXIMUM		SQUARE ELBOW WITH TURNING VANES
MIN.	MINIMUM		SQUARE ELBOW WITH TURNING VANES
	AIR DISTRIBUTION SYMBOL		RADIUS ELBOW
	AIR QUANTITY (CFM)		
	MANUAL BALANCING DAMPER		
	DRAIN LINE		
	UNION		



1/4"=1'-0" ENLARGED FLOOR PLAN - HVAC 4



1/4"=1'-0" ENLARGED FLOOR PLAN - HVAC 3

1/8"=1'-0" FLOOR PLAN - HVAC 1

1/4"=1'-0" ENLARGED FLOOR PLAN - HVAC 2

PLOT DATE: 1/21/2025

1/24/2023 Johnson County AR Court Addition & Renovation\p012433.dwg, 1/21/2025 3:23:58 PM alan.012512





1485 Pogue Avenue, Suite 200, Memphis, TN 38111

Table with 15 columns: MARK, TOTAL CFM, SUPPLY FAN, SUPPLY FAN MOTOR, COOLING COIL CAP'Y, NATURAL GAS, HOT GAS RE-HEAT, ELECTRICAL, FILTERS, REMARKS, APPROX WEIGHT, MFR, MODEL. Row 1: RTU-1, 2400/420, 0.8, 2, 208, 3, 79.4, 65.4, 66.0, 88.0, 8, 90, 72.9, 54.6, 1 @ 26.9, 208, 3, 2@2.8, 208, 1, 47, 70, 2" MERV-8 THROWAWAY, 1 2 3 4 5 6 7 8 9 10 11 12, 1250, AAOB, RNA-008

- 1 PROVIDE WITH WIND RATED 36" TALL HORIZONTAL PLENUM CURB WITH INTEGRAL GRATED CATWALK FOR MAINTENANCE ACCESS...
2 PROVIDE WITH A MOTORIZED OUTSIDE AIR INTAKE DAMPER.
3 PROVIDE WITH A SINGLE POINT POWER CONNECTION.
4 RTU'S WITH ELECTRICAL REQUIREMENTS DIFFERENT THAN SHOWN IN THE SCHEDULE SHALL HAVE THE COST FOR THE DIFFERING ELECTRICAL SERVICE REQUIREMENTS INCLUDED IN THE UNIT PRICE.
5 NOT USED.
6 PROVIDE WITH HINGED ACCESS DOORS.
7 PROVIDE WITH PHASE MONITOR FOR PHASE LOSS, PHASE IMBALANCE, AND PHASE REVERSAL PROTECTION.
8 ROOFTOP UNITS SHALL COMPLY WITH THE 2021 IECC ENERGY CONSERVATION CODE.
9 PROVIDE WITH DIGITAL SCROLL COMPRESSOR, STAINLESS STEEL HEAT EXCHANGER WITH MINIMUM 10-TO-1 TURNDOWN...
10 PROVIDE WITH DIFFERENTIAL ENTHALPY ECONOMIZER, BAROMETRIC RELIEF, AND MODULATING MOTORIZED OUTSIDE AIR INTAKE DAMPER...
11 SINGLE ZONE VAV CONTROLLER WITH VAV COOLING AND CONSTANT VOLUME HEATING...
12 PROVIDE UNIT WITH FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM (RLDS) & REFRIGERANT MITIGATION SEQUENCE PER UL STANDARD 60335-2-40.

Table with 13 columns: MARK, SUPPLY AIR CFM, EXTERNAL S.P., OUTSIDE AIR CFM, SUPPLY AIR FAN MOTOR, COOLING CAPACITY AT 100' AMBIENT, GAS HEAT, FILTER, STARTER, REMARKS, VIBRATION ISOLATION MOUNTING, BASIS OF DESIGN. Rows: F-1, F-2, F-3

- \* EXTERNAL STATIC PRESSURE INCLUDES 0.3" W.G. FOR PRESSURE DROP ACROSS THE DX COOLING COIL.
\*\* VIBRATION ISOLATION BASE AND ISOLATOR DESIGNATIONS ARE FROM 2011 ASHRAE HVAC APPLICATIONS HANDBOOK.
\*\*\* PROVIDE WITH FLOOR STAND TO ALLOW RETURN DUCTWORK TO CONNECT TO BOTTOM INLET.

Table with 13 columns: MARK, REFRIG., NOM. TONS, CAPACITY, COMPRESSOR DATA, CONDENSER, ELECTRICAL, REMARKS, BASIS OF DESIGN. Rows: ACCU-1, ACCU-2, ACCU-3

Table with 13 columns: MARK, TYPE, DRIVE, SERVICE, CFM, EXTERNAL S.P., MAX. FAN RPM, ELECTRICAL, MOTOR CONTROLLER, MAX. SONES, REMARKS, EQUAL TO, APPROX WEIGHT. Rows: EF-1, EF-2, EF-3, EF-4

- FAN SCHEDULE REMARKS
1 PROVIDE WITH DISCONNECT SWITCH, PREWIRED MANUAL SPEED CONTROLLER, WHITE ALUMINUM EXHAUST GRILLE, BACKDRAFT DAMPER, ROOF CAP FOR SHINGLED SLOPED ROOF WITH BIRDSCREEN
2 MANUAL SPEED CONTROLLERS SHALL BE FACTORY MOUNTED ON FANS.
3 PROVIDE WITH COOK MODEL RJR100 ROOF JACK WITH BACKDRAFT DAMPER AND BIRDSCREEN FOR EXHAUST ON SLOPED SHINGLE ROOF
4 PROVIDE WITH COOK MODEL RJ200 ROOF JACK WITH BACKDRAFT DAMPER AND BIRDSCREEN FOR EXHAUST ON SLOPED SHINGLE ROOF

Table with 8 columns: MARK, TYPE, CFM, ELECTRICAL, REMARKS, EQUAL TO, MFR, MODEL. Rows: EH-1, EH-2

HVAC GENERAL NOTES

- 1. WALL-MOUNTED THERMOSTATS AND SENSOR HEIGHTS FOR RTU's AND SPLIT SYSTEMS SHALL BE MAXIMUM 48" AFF, SHALL BE ALIGNED WITH LIGHT SWITCHES WHERE SHOWN AT SAME LOCATION...
2. SUPPLY, OUTSIDE AIR, AND RETURN AIR DUCTS SHALL BE EXTERNALLY INSULATED...
3. PROVIDE UL LISTED FIRE DAMPERS AT DUCTWORK PENETRATIONS OF RATED WALLS, CEILINGS AND FLOORS...
4. DUCT DIMENSIONS SHOWN FOR RECTANGULAR DUCTWORK ARE SHEET METAL SIZES...
5. PROVIDE FLEXIBLE CONNECTIONS TO DUCTWORK AT ALL RTU'S, EXHAUST FANS, AND FURNACES...
6. PIPING AND DUCTWORK SHALL GENERALLY BE ROUTED AS HIGH AS POSSIBLE AND SHALL BE ROUTED ABOVE CEILINGS...
7. COORDINATE EXACT LOCATION OF ALL PIPING & DUCT PENETRATIONS OF WALLS AND FLOORS WITH STRUCTURAL MEMBERS...
8. COORDINATE WITH ARCHITECTURAL CEILING AND LIGHTING PLANS FOR FINAL LOCATION OF AIR DISTRIBUTION DEVICES AND EQUIPMENT MOUNTED IN CEILING...
9. WHERE PIPING IS ROUTED THROUGH EXTERIOR WALL OF BUILDING, PROVIDE "LINK SEAL" AND SLEEVES FOR PENETRATION OF WALL...
10. BALANCING DAMPERS ARE REQUIRED AT EVERY BRANCH DUCT TAKEOFF...
11. DUCT PENETRATIONS THROUGH MASONRY PARTITIONS AND BEARING WALLS MUST BE COORDINATED WITH OTHER OPENINGS AND WALL REINFORCING REQUIREMENTS...
12. PROVIDE TEMPORARY FILTERS AT ALL RETURN DUCTWORK INLETS DURING CONSTRUCTION TO PROTECT DUCTWORK FROM CONSTRUCTION DEBRIS...
13. PROVIDE SHEETMETAL ANGLES AROUND PERIMETER OF DUCTWORK WHERE THE DUCTWORK PENETRATES A NON-RATED WALL OR A SMOKE PARTITION...
14. PROVIDE U.L. APPROVED FIRESTOPPING SYSTEMS AT ALL PIPING/CONDUIT PENETRATIONS OF FIRE RATED FLOORS, WALLS AND CEILING ASSEMBLIES...
15. PROVIDE NECESSARY SHEETMETAL DUCTWORK OR PIPING FOR MOUNTING CONTROLS SUCH AS SMOKE DETECTORS, TEMPERATURE SENSORS, AND DAMPERS...
16. TRANSFER AIR OPENINGS AND RETURN AIR OPENINGS ARE ABOVE CEILING UNLESS OTHERWISE NOTED...
17. LOCATE DAMPERS AND VALVES ABOVE ACCESSIBLE CEILINGS, WITH THE EXCEPTION OF GAS VALVES...
18. NO HVAC PIPING OR DUCTWORK SHALL BE ROUTED ABOVE ELECTRICAL PANELS, FIRE ALARM PANELS, HVAC CONTROL PANELS, ETC...
19. PROVIDE A PRIME COAT OF PAINT FOR ALL SUPPORTS, HANGERS, FRAMES, ETC...
20. PAINT ALL CONDUIT/RACEWAY INSTALLED BY DIVISION 23 WHERE EXPOSED IN FINISHED AREAS...
21. OUTDOOR AIR REQUIREMENTS FOR VENTILATION ARE BASED ON THE 2021 INTERNATIONAL MECHANICAL CODE...
22. ROOF CURBS: ALL ROOF CURBS AND EQUIPMENT SUPPORT RAILS SHALL BE DESIGNED TO MEET THE IBC 2021 SEISMIC AND WIND LOAD REQUIREMENTS...
23. COORDINATE HVAC WITH OTHER TRADES SO AS NOT TO CAUSE INTERFERENCE...
24. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK...
25. SPLIT SYSTEM: REFRIGERANT PIPING FOR SPLIT SYSTEM SHALL BE TYPE ACR COPPER, FACTORY CLEANED, DRIED, AND SEALED...
26. POSITIVELY ATTACH CEILING MOUNTED EXHAUST FANS TO STRUCTURE ABOVE...
27. PROVIDE BOLTS TO ATTACH AIR-COOLED CONDENSING UNITS TO CONCRETE PADS...
28. PROVIDE WIND RESTRAINTS FOR OUTDOOR MECHANICAL SYSTEMS (RTU-1 AND THE CONDENSING UNITS). SEE SPECIFICATIONS FOR REQUIREMENTS.

AIR DISTRIBUTION

Table with 6 columns: MARK, NECK SIZE, CFM RANGE, MAX. TOTAL S.P., MAX. NC, TITUS MODEL NO. Rows: S1, S1, S1, S1, S1, S1, S1, S1, S1, S1, R1, R2, R3, R4, R5, T1, T2, T3, T4

INTAKE HOODS

Table with 5 columns: MARK, NECK SIZE, CFM RANGE, COOK MODEL NO., REMARKS/ACCESSORIES. Row: IH-1

AIR DISTRIBUTION NOTES AND LEGEND

- XXX SERVICE AND MARK NUMBER CFM (ON PLANS)
S = SUPPLY
R = RETURN
E = EXHAUST
AT = AIR TRANSFER
SPS = SMOKE PURGE SUPPLY
SPE = SMOKE PURGE EXHAUST
ONE HOUR FIRE RATED WALL

NOTES

- 1. CEILING DEVICES FURNISHED SHALL BE SURFACE MOUNTED TYPE WITH EXCEPTION OF 24X24 MODULES MOUNTED IN LAY-IN CEILINGS WHICH SHALL HAVE A 24X24 LAY-IN PANEL MOUNTED BORDER TYPE TO FIT IN THE LAY-IN CEILING GRID.
2. PROVIDE SUPPLY AIR CEILING DEVICES WITH 4-WAY THROW PATTERN, UNLESS OTHERWISE INDICATED.

REMARKS/ACCESSORIES

- 1 OPPOSED BLADE DAMPER

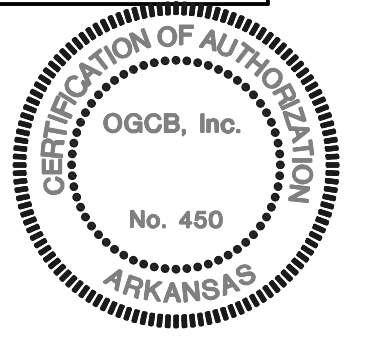
JOHNSON COUNTY ARKANSAS COURT ADDITION & RENOVATION. 301 PORTER INDUSTRIAL ROAD CLARKSVILLE, ARKANSAS 72830

Smith-Doyle Contractors, Inc. Construction Management

SB SOUTH-BUILD CONSULTANT

Professional Engineer Seal

SHEET TITLE: SCHEDULES AND DETAILS - HVAC. DATE: 1/21/25. PROJECT NO.: 24-009A. SHEET NO.: H2.0





NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**  
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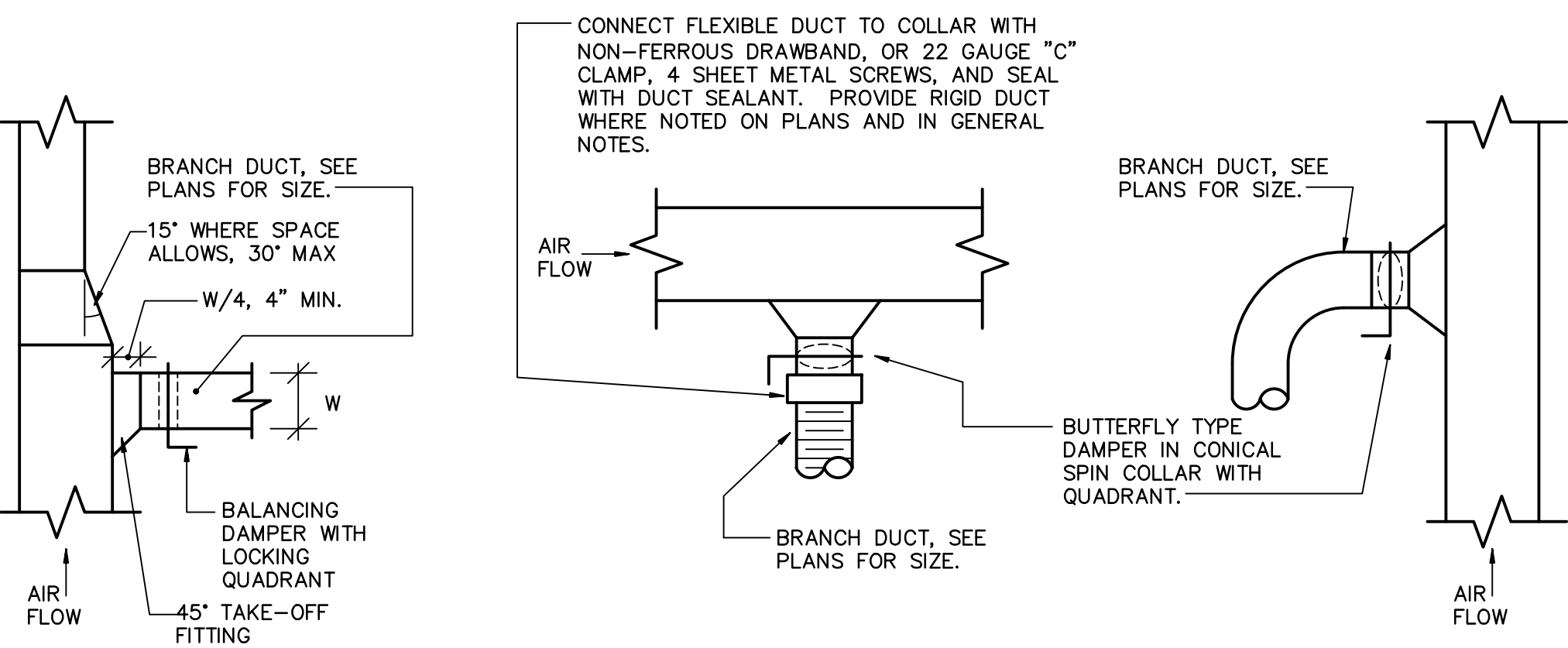
STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 077212  
JAN M. SANDER

SHEET TITLE  
**SCHEDULES AND DETAILS - HVAC**

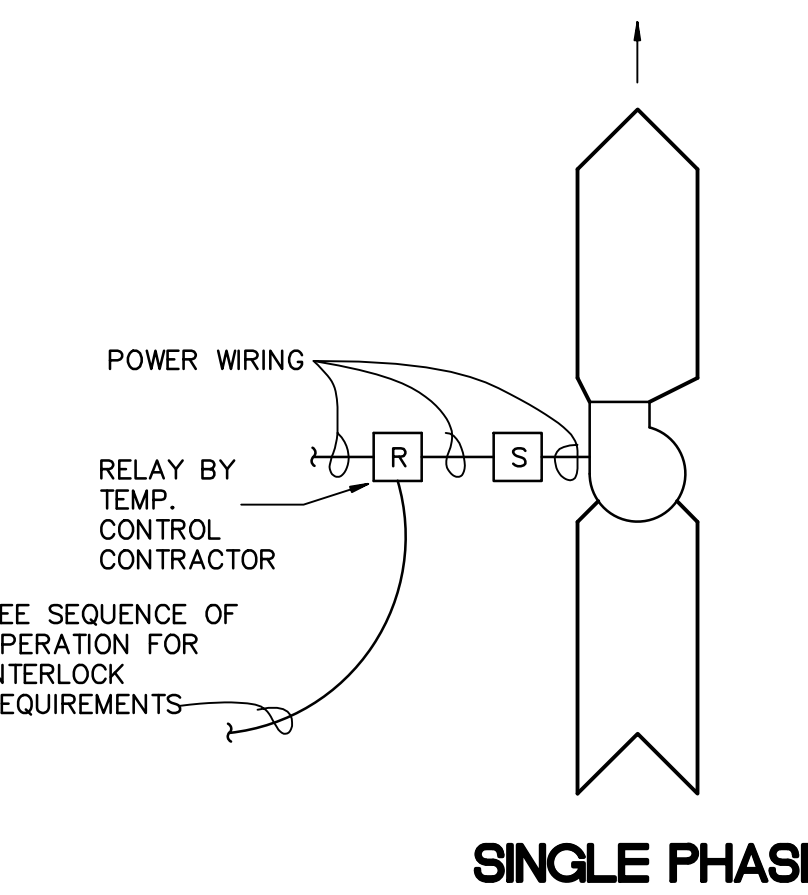
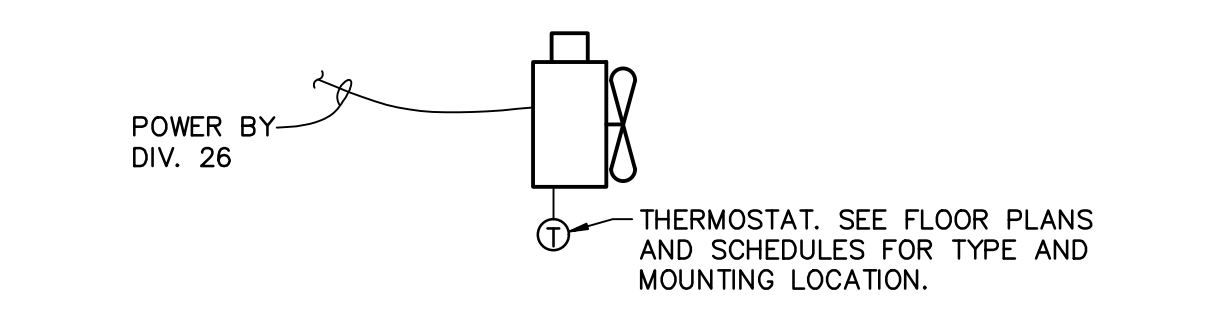
DATE  
1/21/25

PROJECT NO.  
24-009A

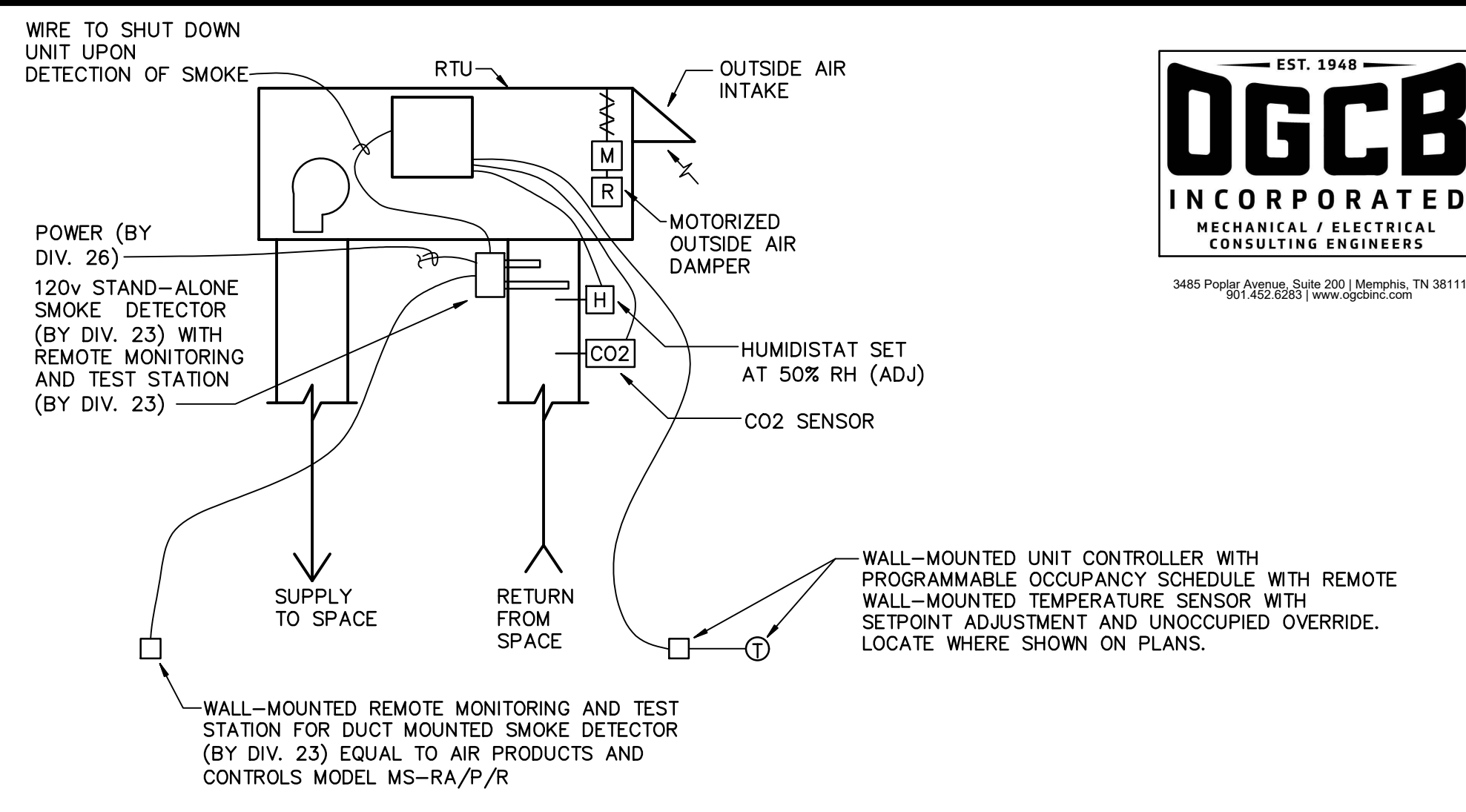
SHEET NO.  
**H3.0**



**BRANCH DUCT CONNECTION**  
NO SCALE



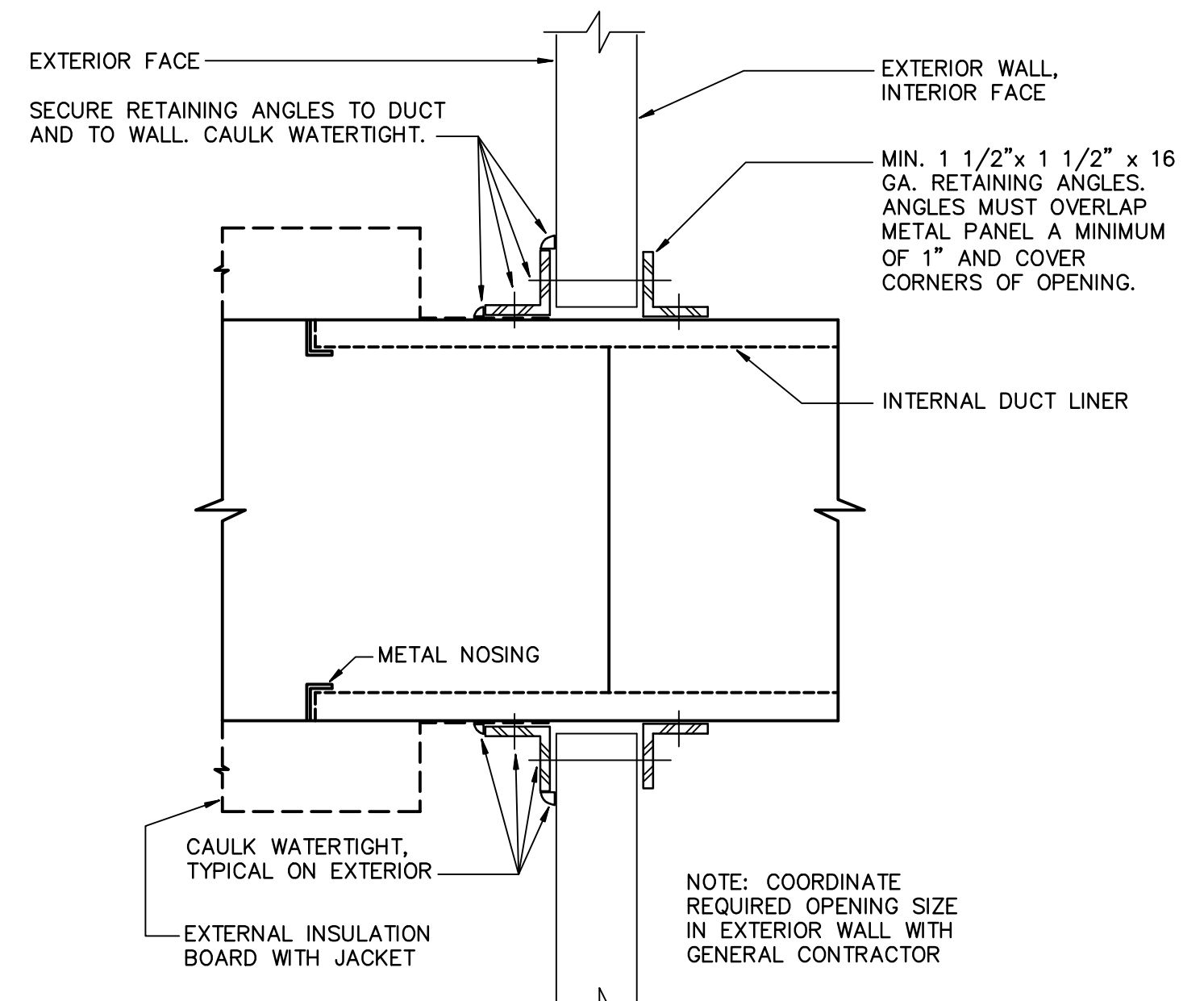
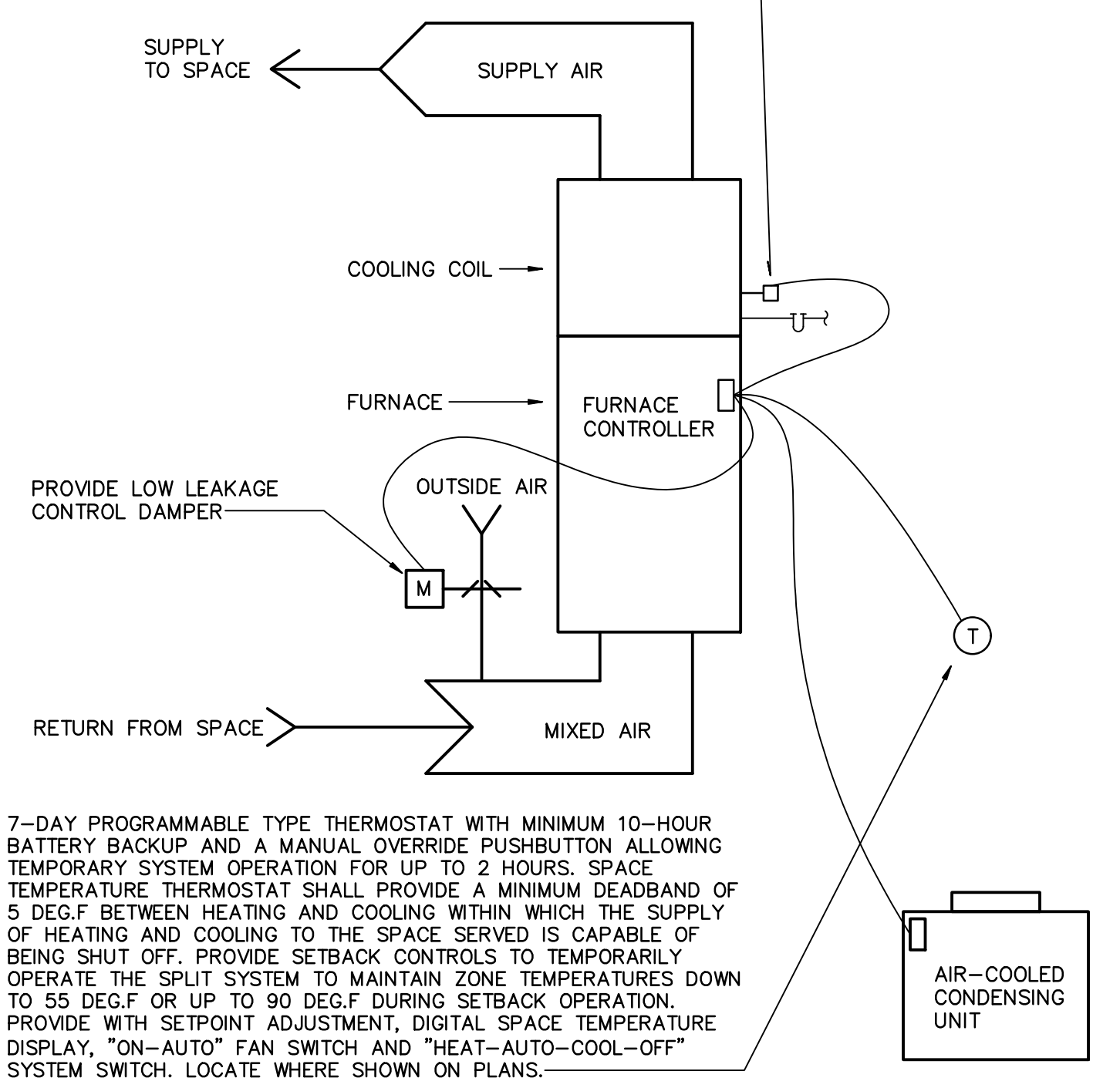
**TEMPERATURE CONTROLS EXHAUST FANS**  
NO SCALE



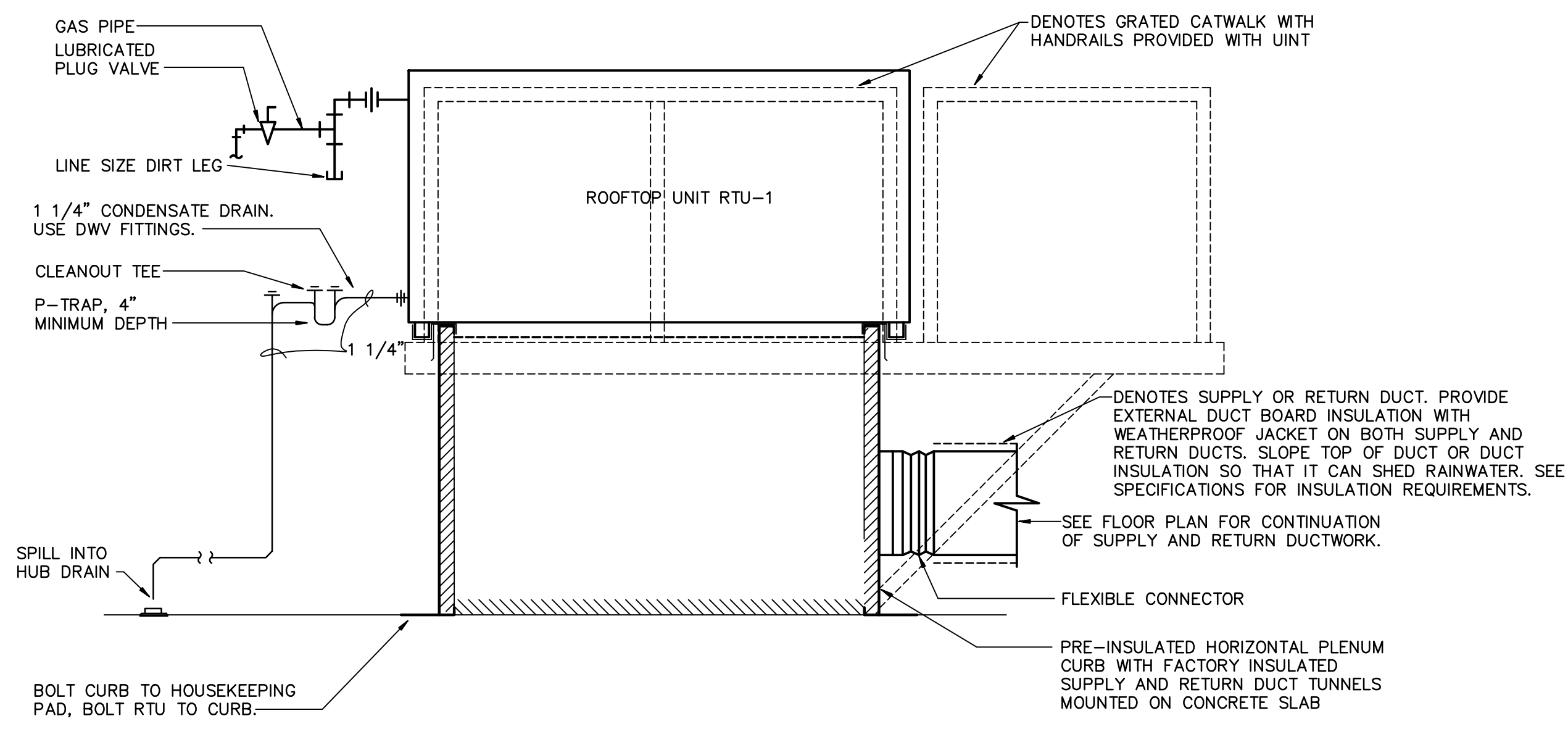
**TEMPERATURE CONTROLS FOR RTU-1**

U.L. 70B LISTED CONDENSATE OVERFLOW SWITCH IN OVERFLOW DRAIN OR IN-LINE CONDENSATE OVERFLOW SWITCH IN CONDENSATE DRAIN PIPE BETWEEN UNIT AND P-TRAP.

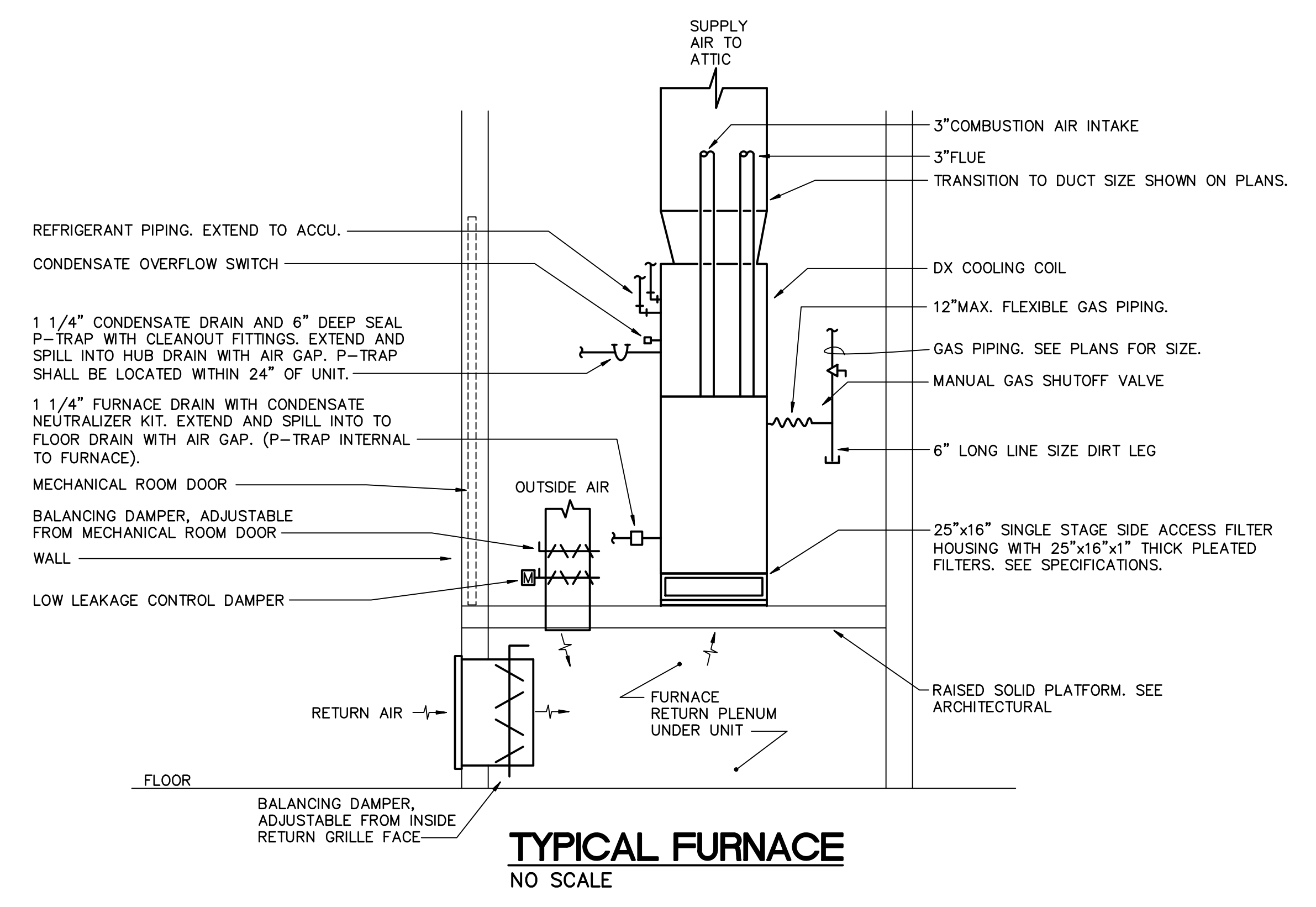
**TEMPERATURE CONTROLS FOR SPLIT SYSTEM FURNACE/ACCU**  
NO SCALE



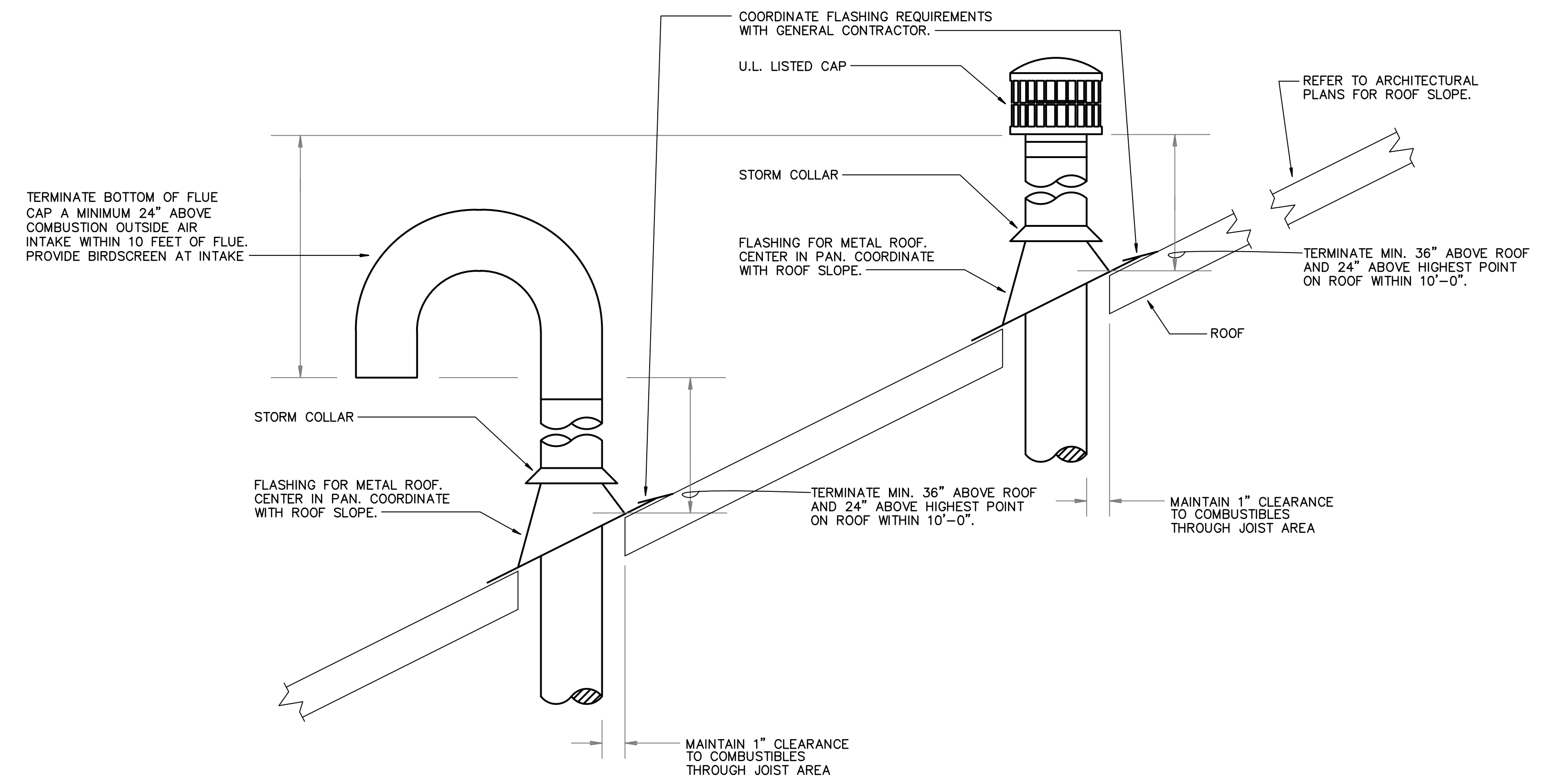
**DUCT PENETRATION OF EXTERIOR WALL**  
NO SCALE



**ROOFTOP UNIT MOUNTED ON GRADE**  
NO SCALE



**TYPICAL FURNACE**  
NO SCALE



**FLUE AND COMBUSTION AIR INTAKE THRU ROOF**  
NO SCALE

1/24/2025 Johnson County AR Court Addition & Renovation 1/21/2025 3:25:31 PM, sheet 11

NO SCALE

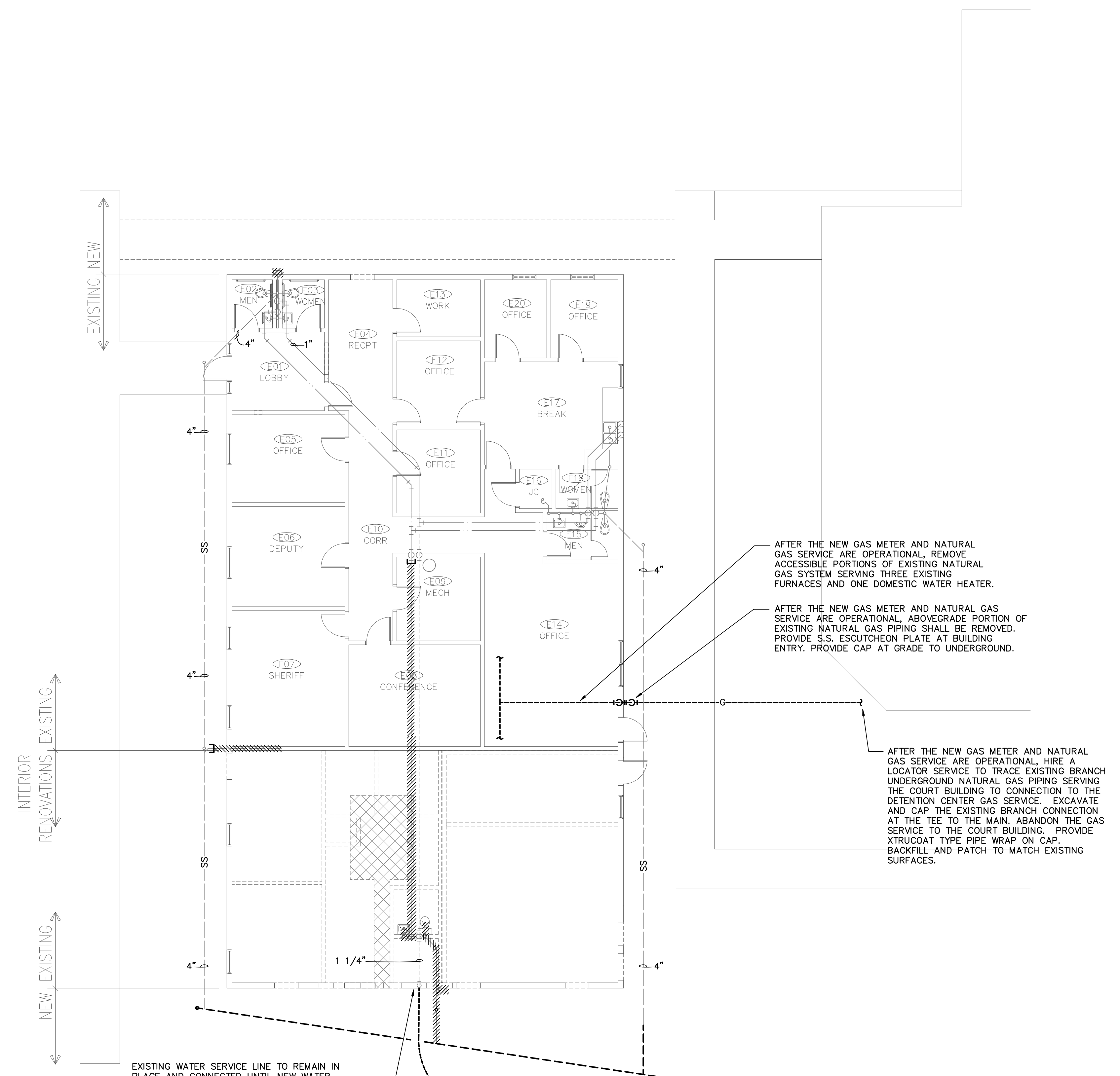


THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION OF ALL TRADES AND COMPLIANCE WITH DIMENSIONS AND EQUIPMENT TO BE INSTALLED AND FIELD CONDITIONS IS REQUIRED.



NO.	DATE	REVISION

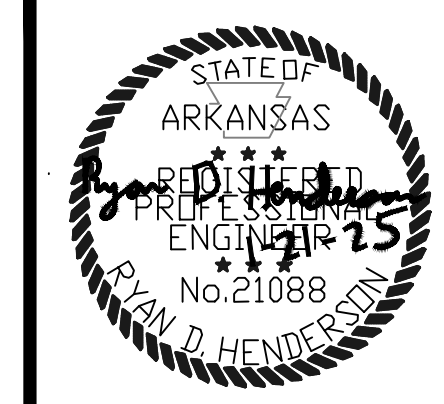
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COURT ADDITION & RENOVATION**  
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CLARKSVILLE, ARKANSAS 72830



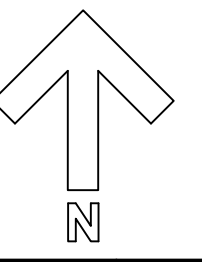
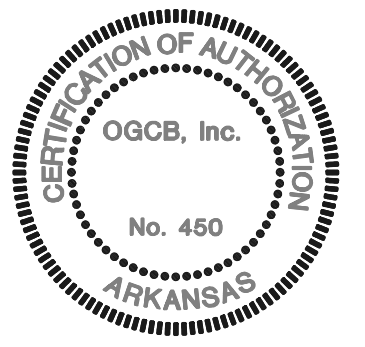
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SHEET TITLE	DEMOLITION FLOOR PLANS - PLUMBING
DATE	1/21/25
PROJECT NO.	24-009A
SHEET NO.	PD1.0





THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION OF ALL TRADES AND COMPLIANCE WITH DIMENSIONS OF EQUIPMENT TO BE INSTALLED AND FIELD CONDITIONS IS REQUIRED.

NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
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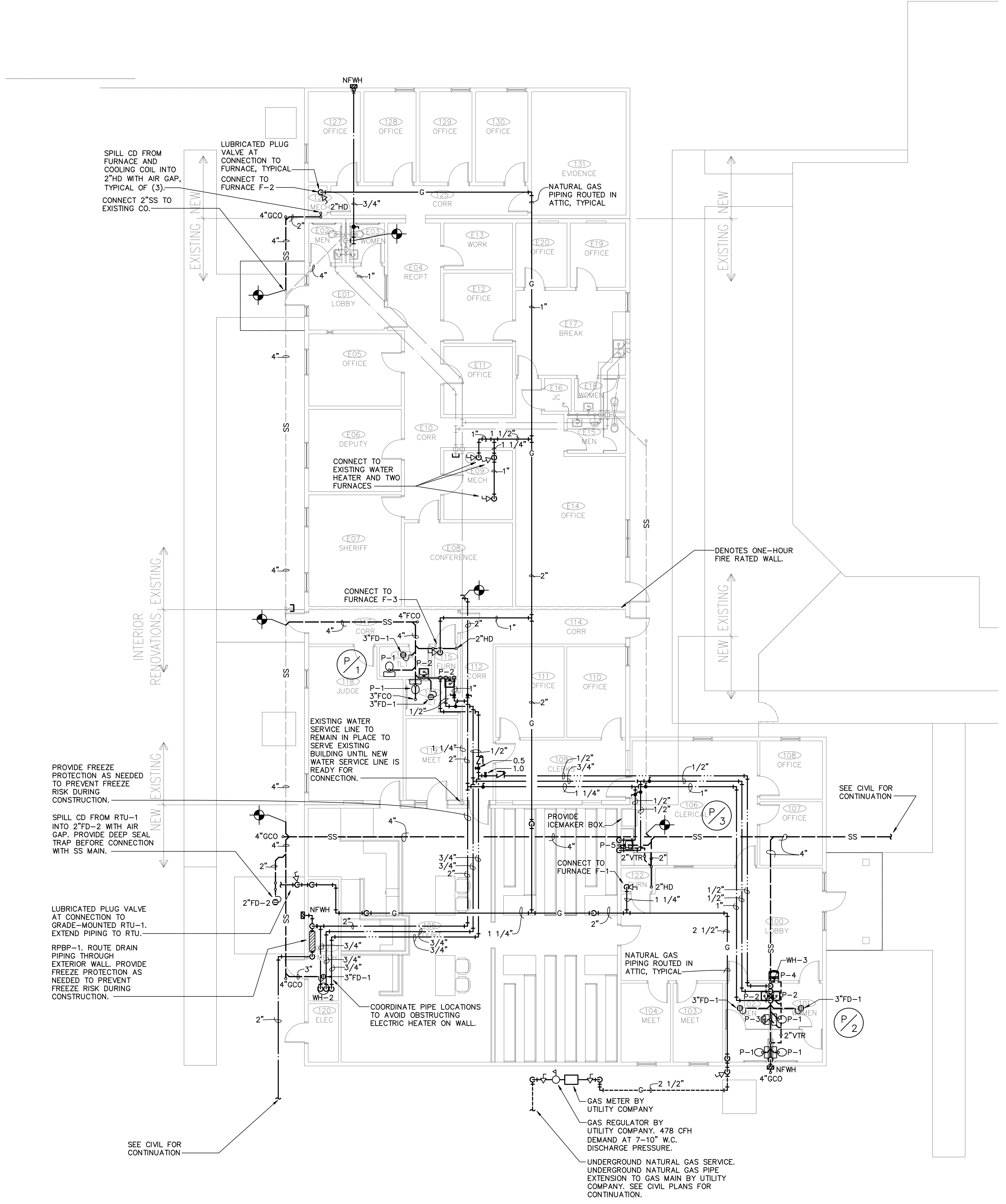
**SB SOUTH-BUILD CONSULTANT**  
SOUTH-BUILD, LLC  
3007 S. Main Street, Clarksville, TN 37040  
(615) 457-2888



SHEET TITLE	FLOOR PLANS - PLUMBING
DATE	1/21/25
PROJECT NO.	24-009A
SHEET NO.	P1.0

GAS CONNECTED LOADS	
EQUIPMENT I.D.	INPUT BTUH
EXISTING COURTHOUSE BUILDING	
EXISTING FURNACE	66,000
EXISTING FURNACE	66,000
EXISTING FURNACE	88,000
EXISTING DOM. WATER HEATER	36,000
<b>TOTAL EXISTING GAS LOAD</b>	<b>256,000</b>
NEW FURNACE F-1	100,000
NEW FURNACE F-2	40,000
NEW FURNACE F-3	80,000
NEW ROOFTOP UNIT RTU-1	90,000
<b>TOTAL NEW GAS LOAD</b>	<b>310,000</b>
EXISTING 88,000 BTUH FURNACE REMOVED IN THIS PROJECT	-88,000
<b>TOTAL CONNECTED LOAD FOR COURTHOUSE BUILDING</b>	<b>478,000</b>
<b>TOTAL NATURAL GAS CFH FOR COURTHOUSE BUILDING</b>	<b>478 CFH</b>

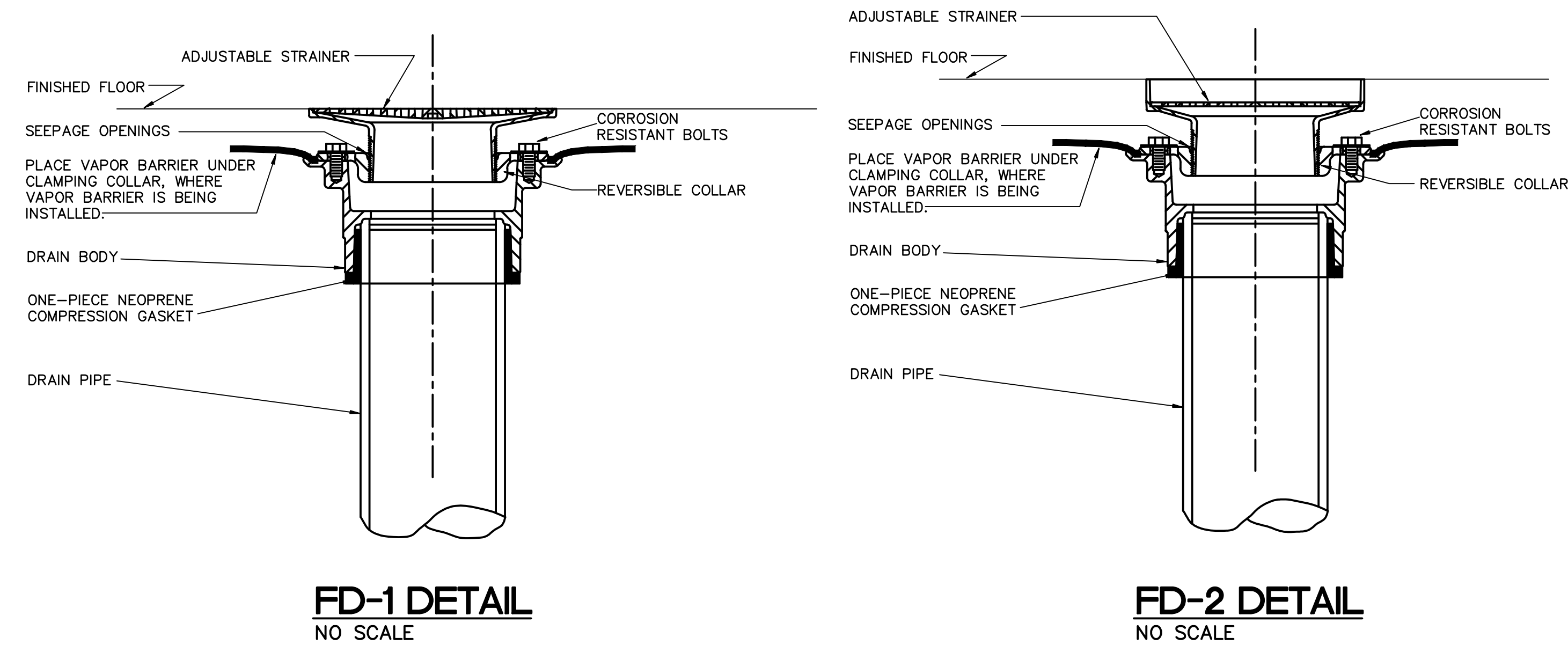
NOTE:  
A NEW NATURAL GAS SERVICE SHALL BE PROVIDED FOR THE COURT BUILDING. SEE CIVIL PLANS FOR GAS SERVICE EXTENSION TO EXISTING UTILITY COMPANY PIPING.





PLUMBING FIXTURE SCHEDULE												
MARK	FIXTURE	BRASS	SUPPLY	TRAP	DRAIN	CARRIER	GPM/GFT	REMARKS	SOL/WASTE	VENT	CW	HW
P-1	AMERICAN STANDARD 2487.018	-	ZURN Z8800QRO-8870-12-PC	-	-	-	1.6	FLOOR-MOUNTED, TANK TYPE, VITREOUS CHINA, WATER CLOSET. PROVIDE SEAT EQUAL TO CHURCH 9500SCT. COORDINATE WITH ARCHITECT FOR WHICH LOCATIONS REQUIRE TANK COVER LOCKING DEVICE.	3"	2"	1/2"	-
P-2	AMERICAN STANDARD 0355.012	ZURN Z81000-XL-3M	ZURN Z8802-XL-LRG-PC	ZURN Z8700-B-PC-B	GRID	ZURN Z1231	0.5	WALL-MOUNTED, VITREOUS CHINA LAVATORY WITH SINGLE-HOLE, SINGLE-LEVER FAUCET. PROVIDE ZURN ZW1070XL THERMOSTATIC MIXING VALVE WITH TEMPERATURE SET TO 110°F. PROVIDE TRUEBRO #102EZ ADA KIT.	2"	2"	1/2"	1/2"
P-3	AMERICAN STANDARD 6002.001	AMERICAN STANDARD 6045103.002	-	-	GRID	ZURN Z1222	0.125	WALL-MOUNTED VITREOUS CHINA URINAL WITH MANUAL FLUSH VALVE. SEE ARCHITECTURAL PLANS FOR MOUNTING ELEVATION.	3"	2"	3/4"	3/4"
P-4	ELKAY EZSDWSLK-ADA	-	ZURN Z8802-XL-Q-PC	ZURN Z8702-9-PC-B	-	ELKAY MLP200	-	ADA COMPLIANT, MANUALLY ACTIVATED WATER COOLER WITH BOTTLE FILLER. PROVIDE WITH STAINLESS STEEL FINISH, VANDAL RESISTANT BUBBLER, AND ALL REQUIRED MOUNTING HARDWARE.	2"	2"	1/2"	-
P-5	ELKAY LR1918-3	DELTA 27C4944	ZURN Z8802-XL-LRG-PC	ZURN Z8702-9-PC-B	ELKAY LK35	-	1.5	COUNTERTOP MOUNTED, STAINLESS STEEL ONE COMPARTMENT SINK WITH MANUAL, 4" CENTERSET, TWO LEVER FAUCET.	2"	2"	1/2"	1/2"

NOTES:  
1. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS WHERE APPLICABLE.  
2. SEE SPECIFICATIONS FOR LIST OF EQUAL MANUFACTURERS UNLESS "NO EQUAL" IS NOTED.



PLUMBING SPECIALTIES SCHEDULE			
MARK	FIXTURE	REMARKS	FINISH
FD-1	WATTS FD-100-B6	CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS AND ADJUSTABLE 6" DIAMETER TRACTOR GRATE WITH CENTER PIN.	NICKEL BRONZE
FD-2	WATTS FD-100-ER7	CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS AND ADJUSTABLE 7" DIAMETER STRAINER WITH EXTENDED RIM.	NICKEL BRONZE
FCO	WATTS CO-200-R	EPOXY COATED CAST IRON FLOOR CLEANOUT WITH ROUND ADJUSTABLE TOP AND BRASS CLEANOUT PLUG.	NICKEL BRONZE
GCO	WATTS CO-200-R	SAME AS FCO EXCEPT FINISH. SET IN 12"x12"x6" DEEP CONCRETE PAD.	NICKEL BRONZE
NFWH	WATTS HY-420	NON-FREEZE, ANTI-SIPHON WALL HYDRANT WITH BRONZE CASING AND INTEGRAL VACUUM BREAKER AND LOOSE KEY.	CHROME
RPBP-1	ZURN 975XL2U-S-AS-1 1/4"	REDUCED PRESSURE ZONE ASSEMBLY WITH BRONZE BODY, LEAD FREE QUARTER TURN VALVES, LEAD FREE BRONZE STRAINER AND AIR GAP FITTING.	-
WHA	WATTS 15M2 SERIES	PDI CERTIFIED PRE-CHARGED COPPER SHOCK ARRESTOR WITH BRASS PISTON, EPDM SEALS AND THREADED CONNECTION.	-

NOTES:  
1. PROVIDE DEEP SEAL TRAPS AT ALL FLOOR DRAINS.  
2. SEE SPECIFICATIONS FOR LIST OF EQUAL MANUFACTURERS.  
3. COORDINATE TRIM OPTIONS WITH ACTUAL CONSTRUCTION.

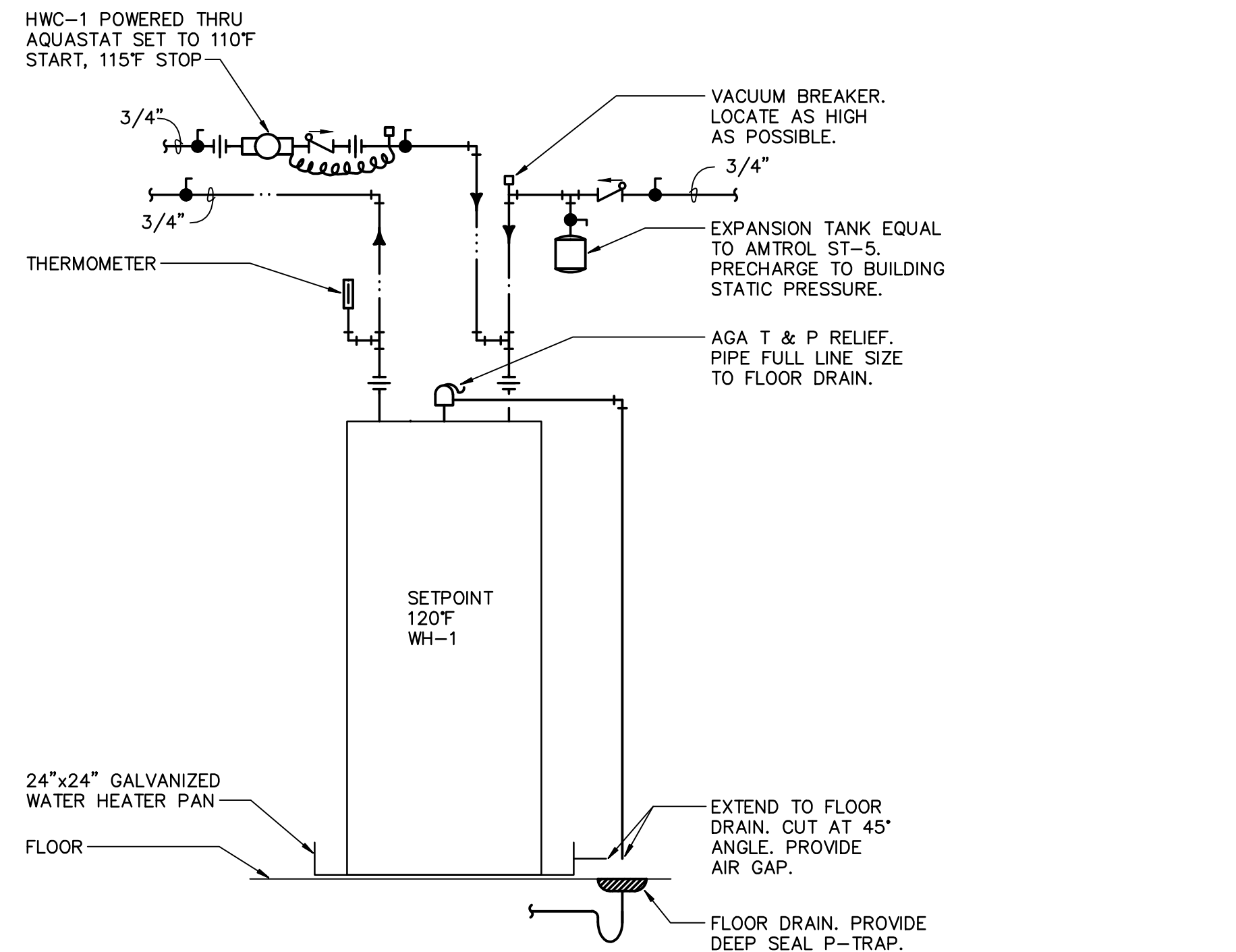
PLUMBING GENERAL NOTES	
1.	INSTALL ALL PLUMBING IN ACCORDANCE WITH APPLICABLE CODES.
2.	COORDINATE PLUMBING WITH OTHER TRADES SO AS NOT TO CAUSE INTERFERENCES.
3.	FIELD VERIFY ALL UTILITY CONNECTIONS FOR SIZE, LOCATION, AND INVERT PRIOR TO START OF WORK.
4.	COORDINATE EXACT LOCATION OF ALL PIPING PENETRATIONS OF WALLS AND ROOFS WITH STRUCTURAL MEMBERS.
5.	PROVIDE INDIRECT WASTE OPENING WITHIN TWO FEET OF ALL COOLING COILS AND EVAPORATORS FOR CONDENSATE. ROUTE TO HOUSE SIDE OF ACTIVE TRAP OR AS SHOWN ON DRAWINGS. VERIFY LOCATIONS IN FIELD WITH HVAC CONTRACTOR PRIOR TO START OF WORK.
6.	ROUTING OF PLUMBING SYSTEMS SHALL BE CLOSELY COORDINATED WITH ALL TRADES. LOCATION OF ALL PLUMBING SYSTEMS SHALL ALLOW FOR INSTALLATION OF ALL EQUIPMENT, VALVES, CONTROL PANELS, JUNCTION BOXES AND OTHER ITEMS REQUIRING ACCESS FOR MAINTENANCE AND REPAIR. COORDINATION DRAWINGS INVOLVING ALL TRADES SHALL BE PREPARED PRIOR TO INSTALLATION.

ELECTRIC WATER HEATER SCHEDULE						
MARK	WATTAGE (KW)	ELECTRICAL	RECOVERY @ 70°F RISE	REMARKS	EQUAL TO	
					MFR.	MODEL
WH-2	4.5	208V/1PH	26	LIGHT COMMERCIAL, 30 GALLON, LOWBOY ELECTRIC WATER HEATER.	AOSMITH	DEL-30

NOTES:  
1. ALTERNATE MANUFACTURERS: BRADFORD WHITE, LOCHINVAR, RHEEM.  
2. WATER HEATER RECOVERY AND 1ST HOUR RATING SHALL BE EQUAL TO OR GREATER THAN SPECIFIED MODEL.  
3. PROVIDE FACTORY START-UP FOR WATER HEATERS.  
4. PROVIDE WITH 5 YEAR WARRANTY.

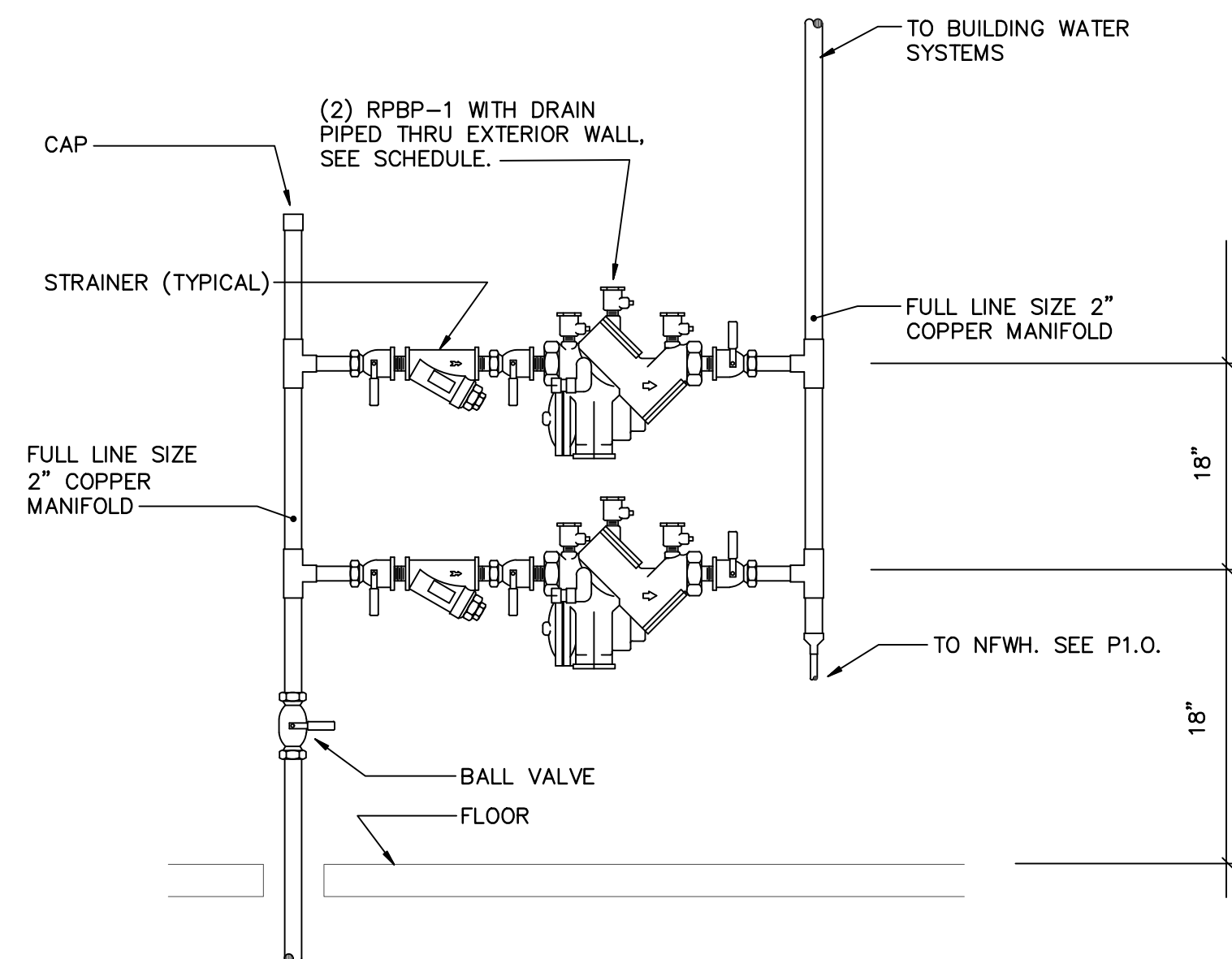
PUMP SCHEDULE											
MARK	LOCATION	SERVICE	GPM	HEAD (FT.)	RPM	ELECTRICAL			REMARKS	EQUAL TO	
						VOLT	H.P.	PH.		MFR.	MODEL
HWC-1	MECH. 121	BUILDING ADDITION	1.5	4	-	120	1/25	1	INLINE CIRCULATOR WITH TIMER AND LINE CORD	GRUNDFOS	UP 15-10 B5/TLC

NOTES:  
1. ALTERNATE MANUFACTURERS: BELL & GOSSETT, TACO.



**WH-1 PIPING DIAGRAM**  
NO SCALE

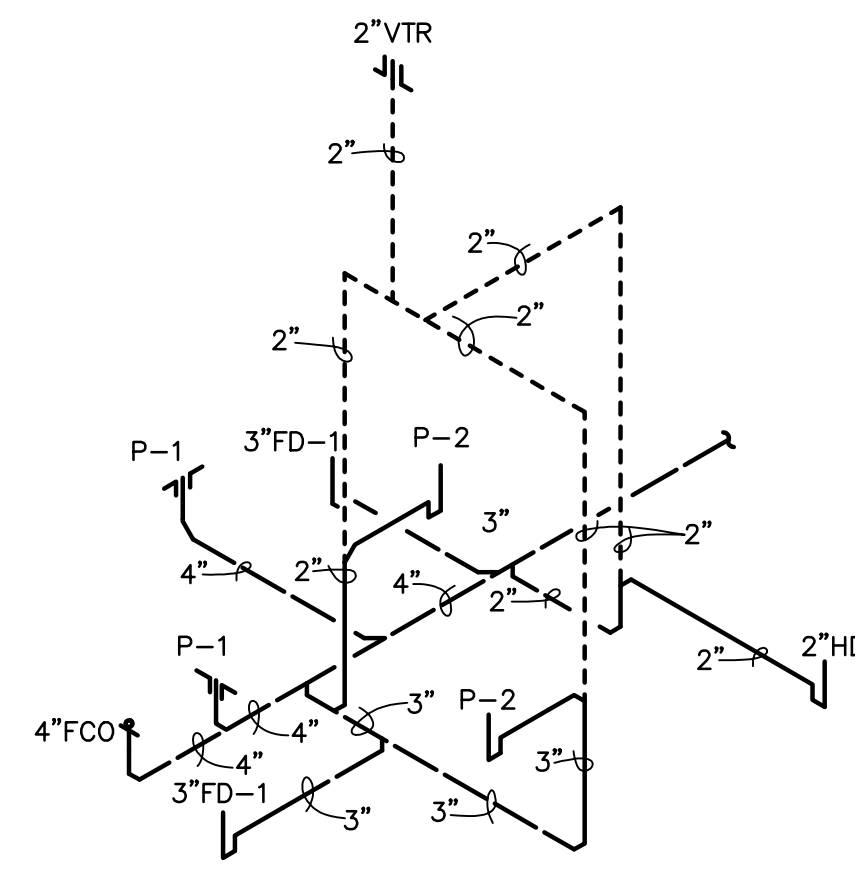
NOTES:  
1. DIAGRAM IS SCHEMATIC. SEE FLOOR PLAN FOR PIPING AND EQUIPMENT LOCATIONS.  
2. INSTALL SYSTEM IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. MAINTAIN MANUFACTURER AND CODE REQUIRED CLEARANCES.  
3. PROVIDE INTERLOCK WIRING, SENSORS, SWITCHES AND VALVES NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION. COORDINATE POWER REQUIREMENTS WITH DIVISION 16.



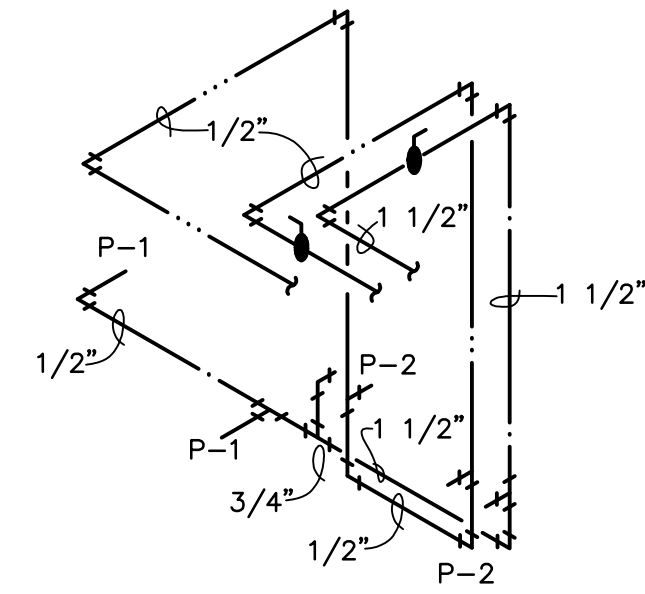
**WATER SERVICE ENTRANCE DETAIL**  
NO SCALE

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
—	DARKER LINEWEIGHTS DENOTE NEW WORK
---	LIGHTER LINEWEIGHTS DENOTE EXISTING TO REMAIN
	HATCH DENOTES EXISTING TO BE DEMOLISHED
----	DRAINAGE PIPING BELOW FLOOR OR GRADE
----	DRAINAGE PIPING ABOVE FLOOR OR GRADE
----	VENT OR INDIRECT VENT (V OR IV)
----	DOMESTIC COLD WATER (CW)
----	DOMESTIC HOT WATER (HW)
----	DOMESTIC HOT WATER RETURN (HWR)
SS	SANITARY SEWER
CD	CONDENSATE
FD	FLOOR DRAIN (X" FD-X)
CO	CLEANOUT
FCO	FLOOR CLEANOUT
VTR	VENT THRU ROOF
WHA	WATER HAMMER ARRESTOR
NFWH	NON-FREEZE WALL HYDRANT
●	BALL VALVE
○	CIRCUIT SETTER WITH GPM SETPOINT INDICATED
⊥	CHECK VALVE
⊥	CONNECT TO EXISTING

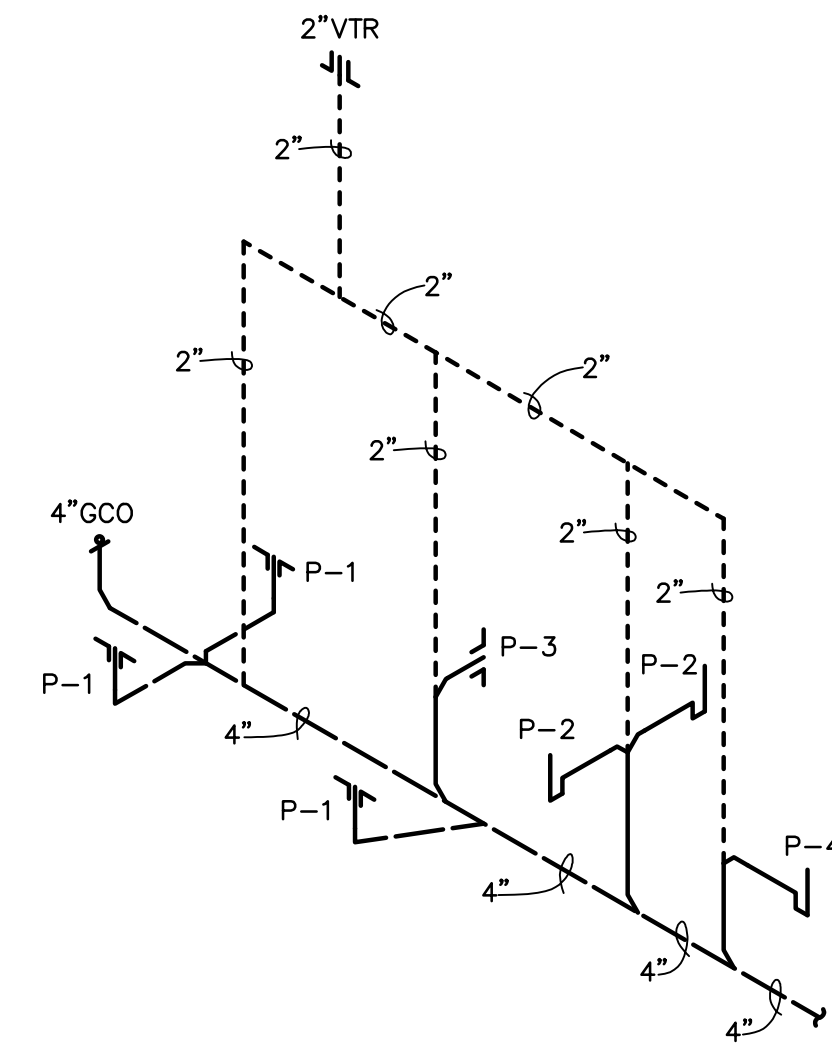




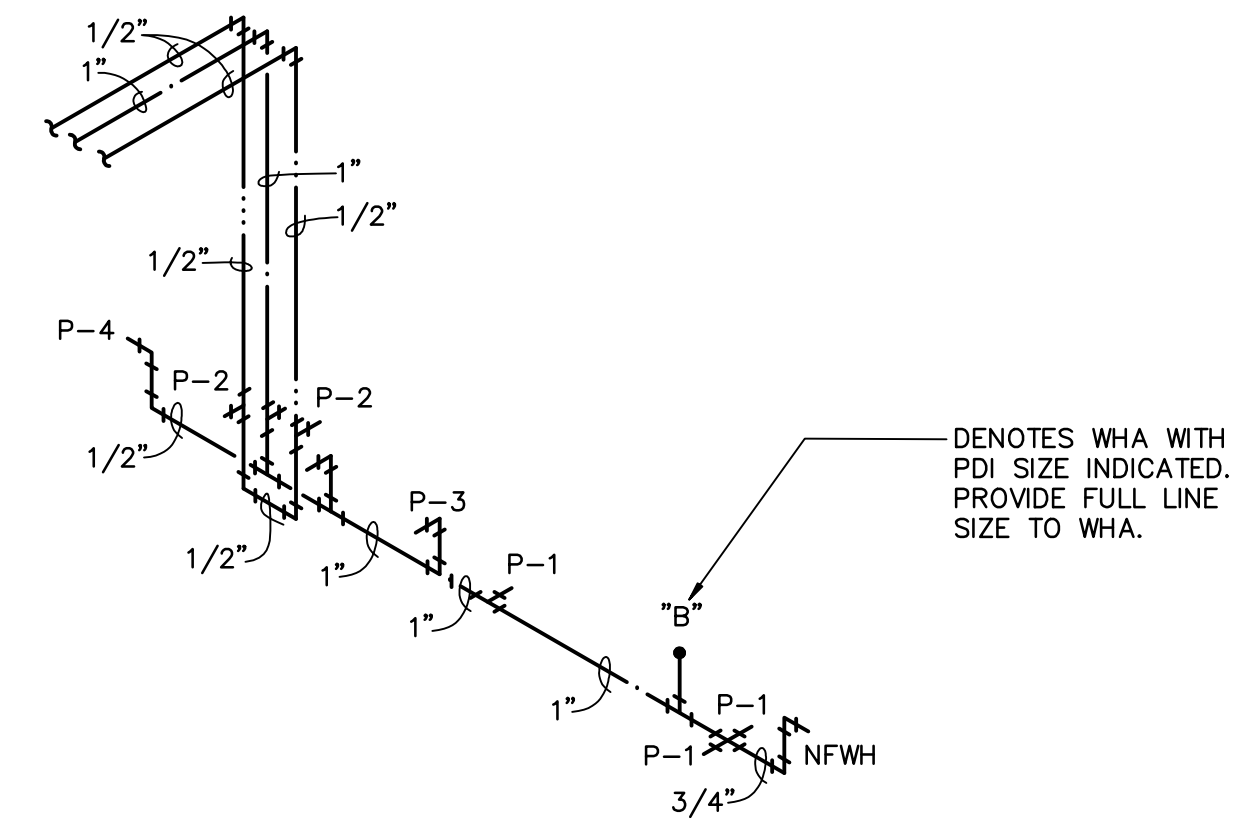
**P/1** RISER DIAGRAM - DWV  
NO SCALE



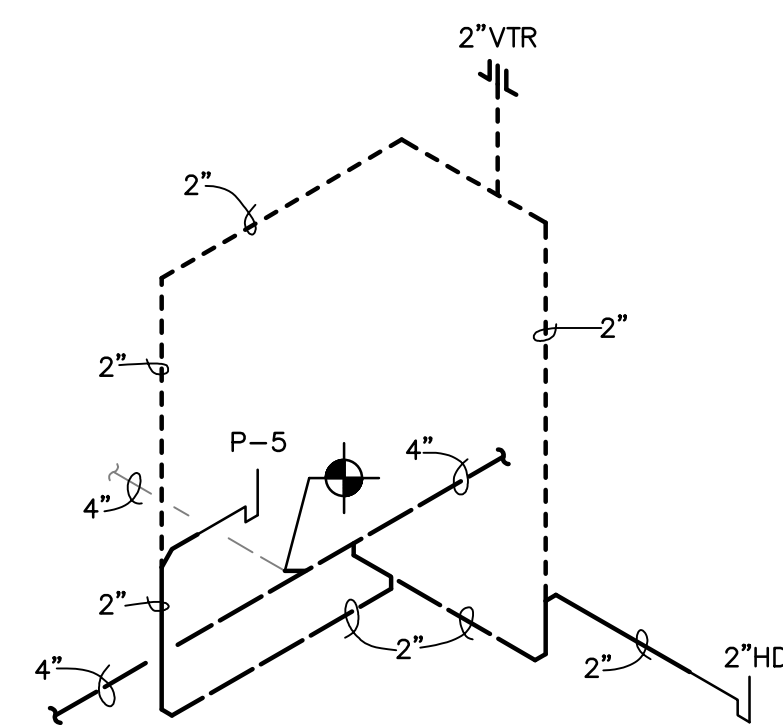
**P/1** RISER DIAGRAM - WATER  
NO SCALE



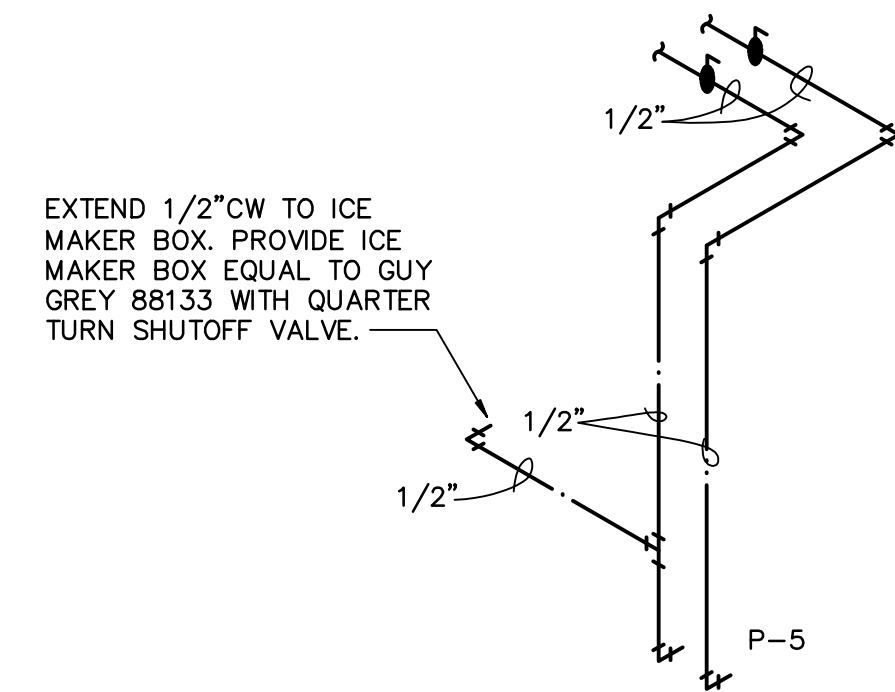
**P/2** RISER DIAGRAM - DWV  
NO SCALE



**P/2** RISER DIAGRAM - WATER  
NO SCALE



**P/3** RISER DIAGRAM - DWV  
NO SCALE



**P/3** RISER DIAGRAM - WATER  
NO SCALE

PLOT DATE: 1/21/2025



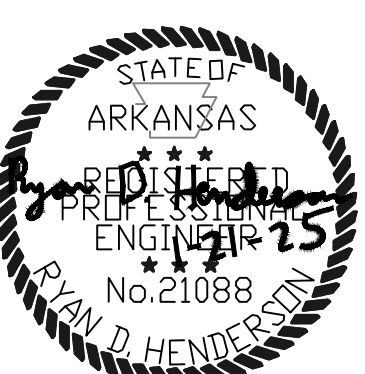
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SHEET TITLE	RISER DIAGRAMS - PLUMBING
DATE	1/21/25
PROJECT NO.	24-009A
SHEET NO.	<b>P3.0</b>



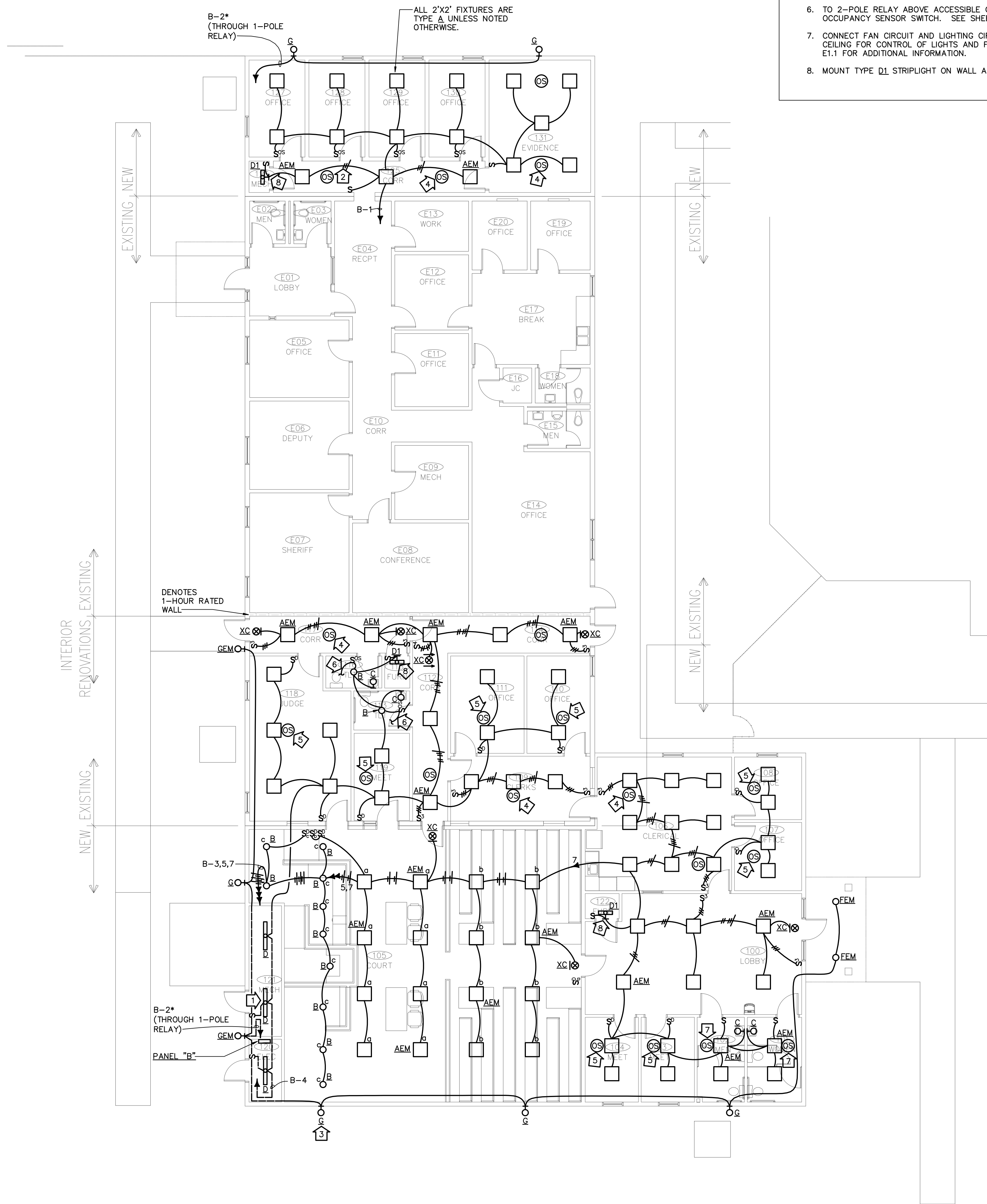




THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION OF ALL TRADES AND COMPLIANCE WITH DIMENSIONS OF EQUIPMENT TO BE INSTALLED AND FIELD CONDITIONS IS REQUIRED.

### KEYNOTES THIS SHEET (E)

1. MOUNT BOTTOM OF TYPE D FIXTURES 8" AFF. ADJUST LOCATION AS NECESSARY TO COORDINATE WITH PIPING, DUCTWORK, EQUIPMENT AND OTHER TRADES.
2. PROVIDE ADDITIONAL "HOT" CONDUCTOR FOR POWER TO BATTERY CHARGER FOR EMERGENCY LIGHT FIXTURES WITH INTEGRAL BATTERY BACK-UP FEATURE. FIXTURE SHALL BE WIRED SUCH THAT EMERGENCY LIGHT SWITCHES ON IMMEDIATELY UPON LOSS OF NORMAL POWER TO BATTERY CHARGER, REGARDLESS OF SWITCH (OR RELAY) POSITION, TYPICAL FOR FIXTURES WITH BATTERY BACK-UP FEATURE.
3. MOUNT BOTTOM OF TYPE G AND GEM WALLPACK FIXTURES 7"-0" AFF. TYPICAL UNLESS NOTED OTHERWISE.
4. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR(S), RELAY POWER PACK(S) ABOVE ACCESSIBLE CEILING, AND LOW VOLTAGE WIRING AS REQUIRED FOR MANUAL SWITCHING AND AUTOMATIC CONTROL OF LIGHTS IN THIS SPACE.
5. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR(S), LIGHTING CONTROL DIMMING MODULE, 0-10 VOLT CONTROL WIRING AS REQUIRED FOR MANUAL DIMMING AND AUTOMATIC CONTROL OF LIGHTS IN THIS SPACE.
6. TO 2-POLE RELAY ABOVE ACCESSIBLE CEILING FOR CONTROL OF LIGHTS AND EXHAUST FAN WITH OCCUPANCY SENSOR SWITCH. SEE SHEET E1.1 FOR CONTINUATION.
7. CONNECT FAN CIRCUIT AND LIGHTING CIRCUIT TO LIGHTING CONTROL RELAY PACK ABOVE ACCESSIBLE CEILING FOR CONTROL OF LIGHTS AND FAN FROM LIGHT SWITCH AND OCCUPANCY SENSOR. SEE SHEET E1.1 FOR ADDITIONAL INFORMATION.
8. MOUNT TYPE Q1 STRIPLIGHT ON WALL ABOVE DOOR IN MECHANICAL CLOSET.



# JOHNSON COUNTY ARKANSAS COURT ADDITION & RENOVATION

301 PORTER INDUSTRIAL ROAD  
CLARKSVILLE, ARKANSAS 72830

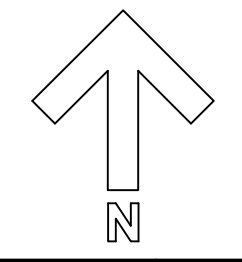
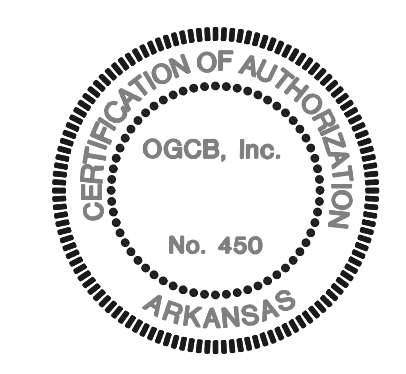
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SHEET TITLE	FLOOR PLAN - LIGHTING
DATE	1/21/25
PROJECT NO.	24-009A
SHEET NO.	E1.0





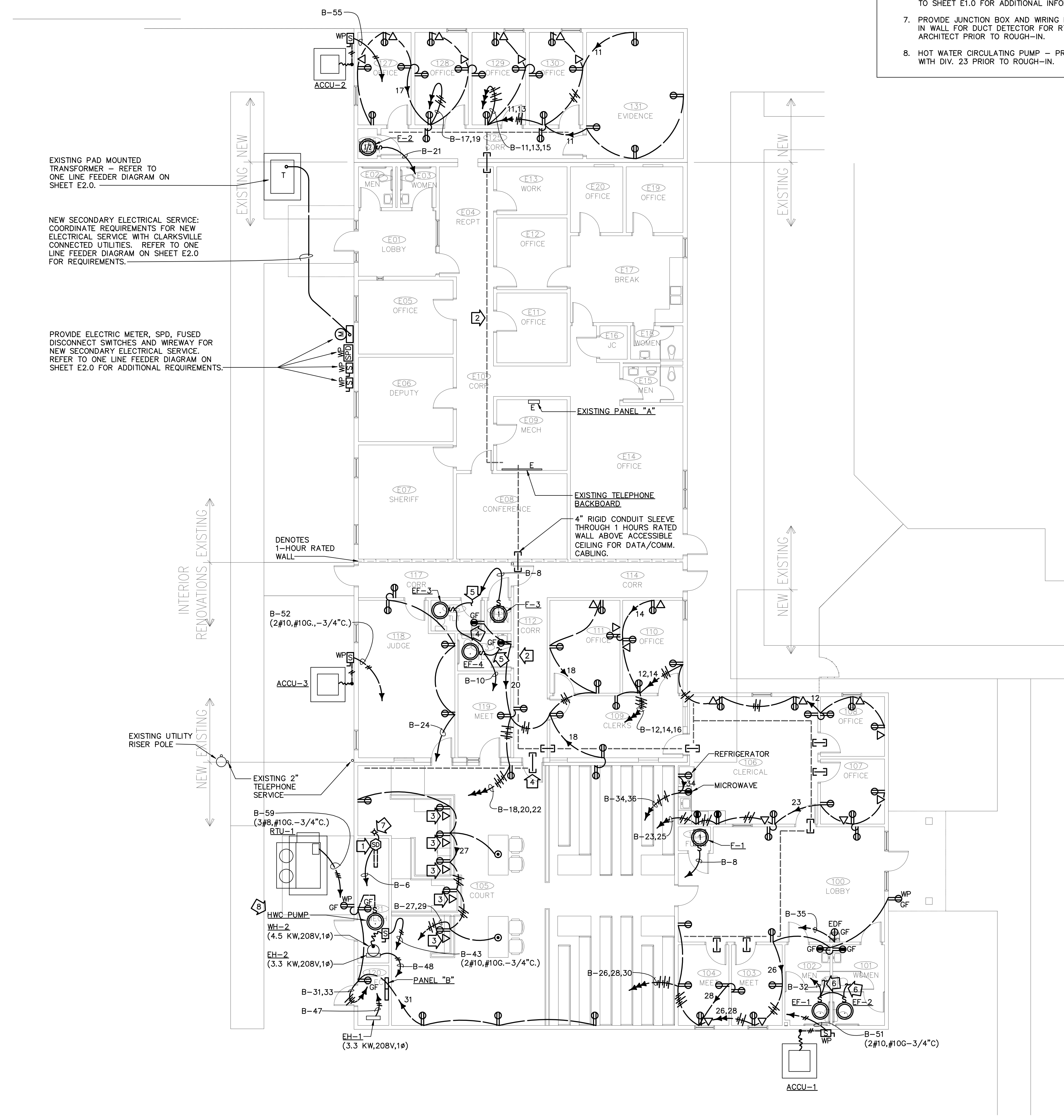
THESE DRAWINGS ARE DIAGRAMMATIC. COORDINATION OF ALL TRADES AND COMPLIANCE WITH DIMENSIONS OF EQUIPMENT TO BE INSTALLED AND FIELD CONDITIONS IS REQUIRED.

### KEYNOTES THIS SHEET (E)

1. PROVIDE POWER CONNECTION TO 120 VOLT DUCT-TYPE SMOKE DETECTOR BY DIV. 23 IN RETURN DUCT FOR RTU-1. PROVIDE RELAY FOR RTU SHUTDOWN AND CONTROL WIRING FROM DETECTOR TO REMOTE TESTING STATION. SEE SHEET H1.0 FOR REMOTE TESTING STATION LOCATION. COORDINATE WITH DIV. 23.
2. PROPOSED LOW VOLTAGE CABLE ROUTING - PROVIDE 3" J-HOOKS ON 3"-Ø CENTERS SUPPORTED FROM STRUCTURE ABOVE ACCESSIBLE CEILINGS AND IN ATTIC OF EXISTING BUILDING FOR SUPPORT OF LOW VOLTAGE CABLING, TYPICAL.
3. ROUTE CONDUIT UNDER FLOOR AND RISE IN WALL TO ACCESSIBLE CEILING SPACE FOR DATA/COMM WIRING.
4. DENOTES 2" CONDUIT SLEEVE THROUGH WALL ABOVE ACCESSIBLE CEILING FOR DATA/COMM. CABLING, TYPICAL, UNLESS NOTED OTHERWISE.
5. PROVIDE 2-POLE RELAY ABOVE ACCESSIBLE CEILING FOR CONTROL OF LIGHTING CIRCUIT AND EXHAUST FAN CIRCUIT TOGETHER FROM OCCUPANCY SENSOR SWITCH IN TOILET. REFER TO SHEET E1.0 FOR CONTINUATION.
6. PROVIDE POWER PACK RELAYS ABOVE ACCESSIBLE CEILING FOR CONTROL OF THE LIGHTING CIRCUIT AND EXHAUST FAN CIRCUIT TOGETHER FROM LIGHT SWITCH AND OCCUPANCY SENSOR IN RESTROOM. REFER TO SHEET E1.0 FOR ADDITIONAL INFORMATION.
7. PROVIDE JUNCTION BOX AND WIRING FOR FOR FLUSH MOUNTING REMOTE MONITORING AND TEST STATION IN WALL FOR DUCT DETECTOR FOR RTU-1. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
8. HOT WATER CIRCULATING PUMP - PROVIDE POWER CONNECTION TO HWC. COORDINATE FINAL LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN.



NO.	DATE	REVISION



EXISTING PAD MOUNTED TRANSFORMER - REFER TO ONE LINE FEEDER DIAGRAM ON SHEET E2.0.

NEW SECONDARY ELECTRICAL SERVICE; COORDINATE REQUIREMENTS FOR NEW ELECTRICAL SERVICE WITH CLARKSVILLE CONNECTED UTILITIES. REFER TO ONE LINE FEEDER DIAGRAM ON SHEET E2.0 FOR REQUIREMENTS.

PROVIDE ELECTRIC METER, SPD, FUSED DISCONNECT SWITCHES AND WIREWAY FOR NEW SECONDARY ELECTRICAL SERVICE. REFER TO ONE LINE FEEDER DIAGRAM ON SHEET E2.0 FOR ADDITIONAL REQUIREMENTS.

INTERIOR RENOVATIONS, EXISTING

NEW, EXISTING

EXISTING UTILITY RISER POLE

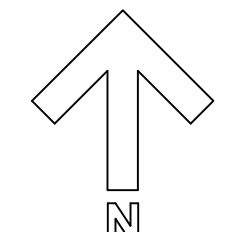
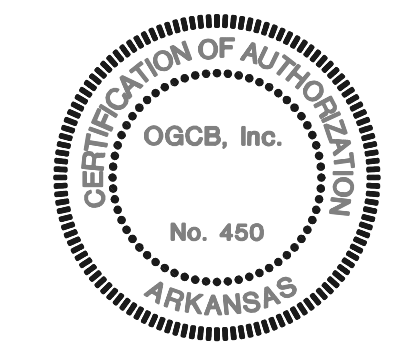
EXISTING 2" TELEPHONE SERVICE

EXISTING 2" TELEPHONE SERVICE

EXISTING 2" TELEPHONE SERVICE

PLOT DATE: 1/21/2025

1/8" = 1'-0"



**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**  
301 PORTER INDUSTRIAL ROAD  
CLARKSVILLE, ARKANSAS 72830

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SHEET TITLE	FLOOR PLAN - POWER/AUXILIARY SYSTEMS
DATE	1/21/25
PROJECT NO.	24-009A
SHEET NO.	E1.1





LIGHTING FIXTURES									
MARK	MANUFACTURER	DESCRIPTION	MOUNTING	VOLTAGE	INPUT WATTS	INITIAL LUMENS	LED DATA		
							QUANTITY	LAMP TYPE	
A	LITHONIA LIGHTING CPX-2X2-3200LM- 80CRI-40K-SWL-MINI0- ZT-MVOLT	2'X2' LED FLAT PANEL FIXTURE WITH SOFT WHITE LENS AND INTEGRAL DRIVER.	RECESSED, CEILING	120/277	28	3,734	N/A	LED 4000K	
ADM		SAME AS TYPE A EXCEPT WITH INTEGRAL EMERGENCY BATTERY BACK-UP FEATURE.	RECESSED, CEILING	120/277	28	3,734	N/A	LED 4000K	
B	GOTHAM LIGHTING IV06-D-30LM-40K- 80CRI-MWD-MINI0-120- ZT-ICAT-P-AR-LD-FWR	6" DIAMETER RECESSED LED DOWNLIGHT WITH INTEGRAL DRIVER, MATTE DIFFUSE REFLECTOR WITH WHITE PAINTED FLANGE.	RECESSED, CEILING	120/277	28	3,015	N/A	LED 4000K	
C	COOPER SHAPER LIGHTING 605-25-W- L3/A40-LNV-MW	2' LED VANITY LIGHT WITH INTEGRAL DRIVER AND WHITE ACRYLIC DIFFUSER AND WHITE FINISH	SURFACE, WALL	120/277	20	2,000	N/A	LED 4000K	
D	LITHONIA LIGHTING ZL1F-L48-SMR- 4500LM-MDD-MVOLT- 40K-80CRI-WH	4' LED STRIPLIGHT WITH INTEGRAL DRIVER AND WIREGUARD, WHITE FINISH.	SURFACE, CEILING, WALL	120	39	3,856	N/A	LED 4000K	
DL		SAME AS TYPE D EXCEPT 2' IN LENGTH.	SURFACE, CEILING, WALL	120	19	1,892	N/A	LED 4000K	
E		NOT USED.							
FEM	GOTHAM LIGHTING IV06-D-20LM-40K- 80CRI-MWD-MINI0-120- ZT-ICAT-WL-P-AR-LD- FWR	6" DIAMETER ENCLOSED LED DOWNLIGHT WITH INTEGRAL DRIVER, UL LISTED FOR WET LOCATION.	RECESSED, CEILING	120/277	21	2,098	N/A	LED 4000K	
G	LITHONIA LIGHTING WDGE3LED-P2-40KL- 80CRI-RFT-MVOLT	FULL CUT-OFF LED WALL PACK WITH FORWARD THROW LIGHT DISTRIBUTION AND BRONZE FINISH.	SURFACE, WALL	120/277	59	8,957	N/A	LED 4000K	
GEM		SAME AS TYPE G EXCEPT WITH INTEGRAL EMERGENCY BATTERY BACK-UP FEATURE.	SURFACE, WALL	120/277	59	8,957	N/A	LED 4000K	
XC	LITHONIA LIGHTING LQM-S-W-3-R- 120/277-ELN	CEILING MOUNTED STENCIL FACE RED LED EXIT LIGHT WITH BATTERY BACK-UP FEATURE. WHITE THERMOPLASTIC HOUSING, UNIVERSAL MOUNTING KIT.	SURFACE, CEILING	120/277	5	N/A	N/A	RED LED	
XW		SAME AS XC EXCEPT WALL MOUNTED.	SURFACE, WALL	120/277	5	N/A	N/A	RED LED	

**LIGHTING FIXTURE SCHEDULE NOTES**

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL LOCATION AND DIMENSIONS FOR CEILING MOUNTED LIGHT FIXTURES.
- VERIFY THE COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL AND NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
- PROVIDE ALL MISCELLANEOUS HARDWARE NECESSARY AT, ABOVE, OR BELOW THE CEILING PLANE TO SUPPORT THE LIGHT FIXTURES.
- ALL RECESSED LIGHT FIXTURES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE THROAT IS EVEN WITH THE FINISHED CEILING PLANE. THE OVERLAPPING FLANGE MUST FIT FLUSH TO THE CEILING PLANE/THROAT. NO LIGHT LEAK SHALL BE VISIBLE. ALL MISCELLANEOUS HARDWARE AND CEILING MODIFICATIONS NECESSARY ABOVE THE CEILING PLANE TO ACCOMPLISH THIS END RESULT SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR.
- ALL ADJUSTABLE LIGHT FIXTURES SHALL BE AIMED AND ADJUSTED UNDER THE OBSERVATION OF AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT.
- COORDINATE MOUNTING HEIGHT OF ALL WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN ON JOB SITE.
- COORDINATE ALL LIGHT FIXTURES IN MECHANICAL EQUIPMENT ROOMS WITH DUCTWORK AND PIPING.
- CORRIDOR LIGHTS WITH "EM" IDENTIFICATION ARE UNSWITCHED AND SHALL SERVE BOTH AS EMERGENCY EGRESS LIGHTS AND NIGHT LIGHTS.

**ELECTRICAL LEGEND**

	PANELBOARD SURFACE MOUNTED, FLUSH MOUNTED.
	MOTOR, NUMERAL DENOTES HORSEPOWER
	DISCONNECT SWITCH
	DUPLEX RECEPTACLE, 15 AMP, 120V, 3 POLE POLARIZED. MOUNT 15" ABOVE FINISHED FLOOR TO CENTER LINE OF LOWEST PLUG-IN POINT OR AS NOTED ON PLAN.
	DUPLEX RECEPTACLE, 15 AMP, 120V, 3 POLE POLARIZED MOUNTED ABOVE COUNTER OR 44" ABOVE FINISHED FLOOR TO BOTTOM, OR AS NOTED ON PLAN.
	SINGLE 208V. RECEPTACLE, 1 PHASE GROUNDING (20A. DENOTES AMPACITY)
	JUNCTION BOX, CEILING MTD., WALL MTD., CEILING MTD. W/FLEX. CONNECTION SHOWN.
	COMMUNICATION/DATA OUTLET, WITH 1" CONDUIT STUBBED INTO NEAREST ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. MOUNT 18" ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE POINT OR AS NOTED ON PLAN.
	DUCT TYPE SMOKE DETECTOR WITH SAMPLING TUBES
	CEILING MTD. LIGHTING FIXTURE, LETTER DENOTES TYPE - SEE LIGHTING FIXTURE SCHEDULE.
	WALL MTD. LIGHTING FIXTURE, LETTER DENOTES TYPE - SEE LIGHTING FIXTURE SCHEDULE.
	EXIT SIGN WALL MTD., CEILING MTD.
	SINGLE POLE SWITCH, MOUNT 48" ABOVE FINISHED FLOOR TO CENTERLINE.
	SINGLE POLE SWITCH, MOUNT 48" ABOVE FINISHED FLOOR TO CENTERLINE.
	0-10 VOLT DIMMER SWITCH. MOUNT 48" AFF TO CENTERLINE.
	FOUR WAY SWITCH. MOUNT 48" AFF TO CENTERLINE.
	OCCUPANCY SENSOR SWITCH. MOUNT 48" AFF TO CENTERLINE.
	CEILING MOUNTED OCCUPANCY SENSOR.
	RACEWAY CONCEALED IN WALL OR CEILING, OR IN SLAB ABOVE.
	RACEWAY CONCEALED UNDERFLOOR/BELOW GRADE.
	EXPOSED RACEWAY
	HOMERUN TO PANELBOARD, LETTERS DENOTE PANEL, NUMBER OF ARROWS INDICATE QUANTITY OF CIRCUITS, SHORT CROSSBARS DENOTE PHASE CONDUCTORS, LONG CROSSBAR WITH HOOK DENOTES ISOLATED GROUND CONDUCTOR, LONG CROSSBAR (A TWO WIRE CIRCUIT HAS NO CROSSBARS) EQUIPMENT GROUND DENOTES NEUTRAL. CONDUCTOR IS REQUIRED BUT NOT SHOWN. A "*" INDICATES HOMERUN THAT CONTAINS A CIRCUIT NUMBER USED IN MORE THAN ONE HOMERUN.
	RACEWAY STUBBED/CAPPED
	RISER UP OR DOWN
	LIGHT EMITTING DIODE
	CONDUIT
	ABOVE FINISHED FLOOR
	EMERGENCY
	GROUND FAULT CIRCUIT INTERRUPTING
	EMPTY CONDUIT
	WEATHERPROOF
	SURGE PROTECTIVE DEVICE

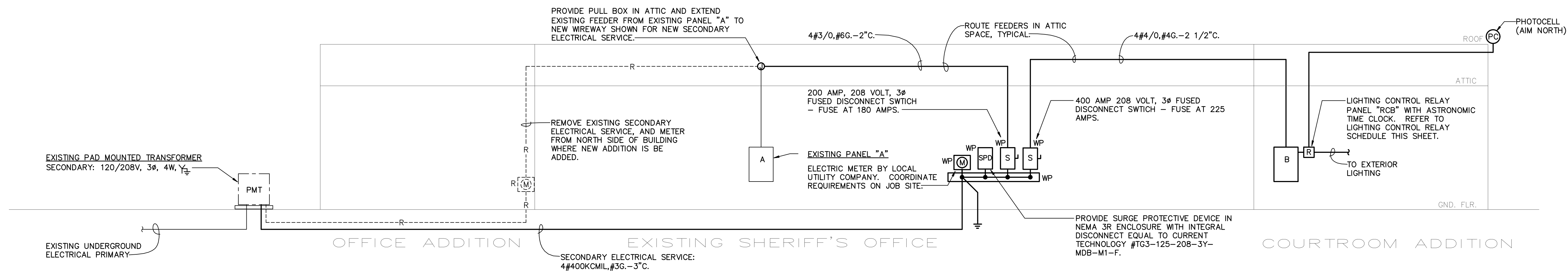
LIGHTING CONTROL RELAY SCHEDULE									
DESCRIPTION	CIRCUIT #	VOLTAGE	LOAD (VA)	RELAY	CONTROL	CONTROL VOLTAGE	TIME ON	TIME OFF	
RELAY CABINET "RCB"									
EXTERIOR LIGHTS	B-2	120	610	1-POLE	PC-ON/PC-OFF	120	DUSK	DAWN	
SPARE		120		1-POLE		120			
SPARE		120		1-POLE		120			

LEGEND:  
PC - PHOTOCELL "PC"

PANEL LOAD SUMMARY	
EXISTING PANEL "A": EXISTING PEAK ELECTRICAL DEMAND:	65 AMPS
NEW PANEL "B":	164 AMPS
TOTAL	229 AMPS

B (L)									
Location: Elec 120		Voltage: 208/120v, 3ø, 4w.		AIC: 10kA					
Mounting: Surface		Bus: 225 amps		Main: 225/3 CB		Section: 1 of 2			
Fed From: PMT									
CIRCUIT DESCRIPTION	C.B.	#	Ø	#	C.B.	CIRCUIT DESCRIPTION	C.B.	#	Ø
LIGHTING	201	1	a	2	201	EXTERIOR LIGHTING			
LIGHTING	201	3	b	4	201	LIGHTING			
LIGHTING	201	5	c	6	201	120 VOLT DUCT DETECTOR			
LIGHTING	201	7	a	b	151	F-3			
F-1	151	9	d	10	201	EF-3EF-4			
RECEPTACLES	201	11	c	12	201	RECEPTACLES			
RECEPTACLES	201	13	a	14	201	RECEPTACLES			
RECEPTACLES	201	15	b	16	201	RECEPTACLES			
RECEPTACLES	201	17	c	18	201	RECEPTACLES			
RECEPTACLES	201	19	a	20	201	RECEPTACLES			
F-2	151	21	b	22	201	RECEPTACLES			
RECEPTACLES	201	23	c	24	201	RECEPTACLES			
RECEPTACLES	201	25	a	26	201	RECEPTACLES			
RECEPTACLES	201	27	d	28	201	RECEPTACLES			
RECEPTACLES	201	29	a	30	201	RECEPTACLES			
RECEPTACLES	201	31	b	32	201	EF-1EF-2			
RECEPTACLES	201	33	b	34	201	REFRIGERATOR			
EDF	201	35	c	36	201	MICROWAVE			
SPARE	201	37	a	38	201	SPARE			
SPARE	201	39	b	40	201	SPARE			
SPARE	201	41	c	42	201	SPARE			
Total Connected VA:	Phase A: 19343	Panel Load		kVA	amps				
	Phase B: 19677	Connected:		59.1	164				
	Phase C: 19908	Calculated:		56.2	156				

B (R)									
Location: Elec 120		Voltage: 208/120v, 3ø, 4w.		AIC: 10kA					
Mounting: Surface		Bus: 225 amps		Main: MLO		Section: 2 of 2			
B (L)									
CIRCUIT DESCRIPTION	C.B.	#	Ø	#	C.B.	CIRCUIT DESCRIPTION	C.B.	#	Ø
WH-2	302	43	a	44	302	SPARE			
		45	b	46					
		47	c	48					
EH-1	202	49	a	50	202	EH-2			
		51	b	52					
		53	c	54					
ACCU-1	252	55	a	56	252	ACCU-3			
		57	b	58					
ACCU-2	252	59	c	60	201	SPARE			
		61	a	62	201	SPARE			
RTU-1	703	63	b	64	201	SPARE			
		65	c	66	201	SPARE			
SPARE	201	67	a	68	201	SPARE			
SPARE	201	69	b	70	201	SPARE			
SPARE	201	71	c	72	201	SPARE			
SPARE	201	73	a	74					
SPACE	----	75	b	76	----	SPACE			
SPACE	----	77	c	78	----	SPACE			
SPACE	----	79	a	80	----	SPACE			
SPACE	----	81	b	82	----	SPACE			
SPACE	----	83	c	84	----	SPACE			
Total Connected VA:	Phase A: 10497	Panel Load		kVA	amps				
	Phase B: 11379	Connected:							
	Phase C: 11098	Calculated:							



**PARTIAL ONE LINE FEEDER DIAGRAM**  
NO SCALE

NOTES:  
1. ALL CONDUCTORS COPPER WITH THWN INSULATION UNLESS OTHERWISE NOTED.

PLOT DATE: 1/21/2025

NO SCALE

NO.	DATE	REVISION

**JOHNSON COUNTY ARKANSAS  
COURT ADDITION & RENOVATION**  
 301 PORTER INDUSTRIAL ROAD  
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**REGISTRATION**  
No. 12894  
MICHAEL A. DOYLE  
ELECTRICAL ENGINEER  
STATE OF ARKANSAS

SHEET TITLE  
SCHEDULES,  
DIAGRAMS AND  
LEGEND - ELECTRICAL

DATE  
1/21/25

PROJECT NO.  
24-009A

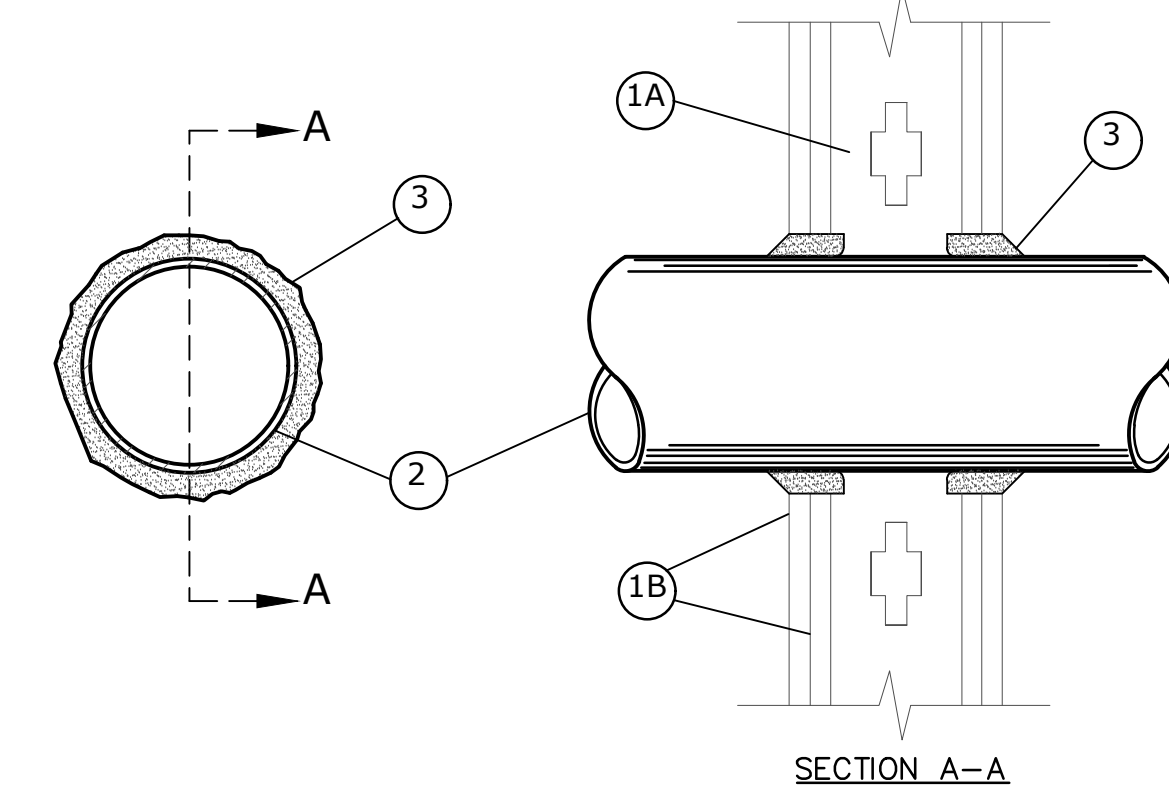
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E2.0





NO.	DATE	REVISION

**System No. W-L-1001**  
June 15, 2005  
(Formerly System No. 147)  
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)  
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)  
L Rating At Ambient - less than 1 CFM/sq ft  
L Rating At 400 F - less than 1 CFM/sq ft



1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
- B. Gypsum Board\* - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
- C. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
  - A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
  - C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
  - D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
  - E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
  - F. Through Penetrating Product\* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:
    - 1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
    - 2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**OMEGA FLEX INC**  
A. RUNDY CO  
B. RUNDY CO  
C. RUNDY CO  
D. RUNDY CO  
E. RUNDY CO  
F. RUNDY CO  
G. RUNDY CO  
H. RUNDY CO  
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V. RUNDY CO  
W. RUNDY CO  
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Z. RUNDY CO

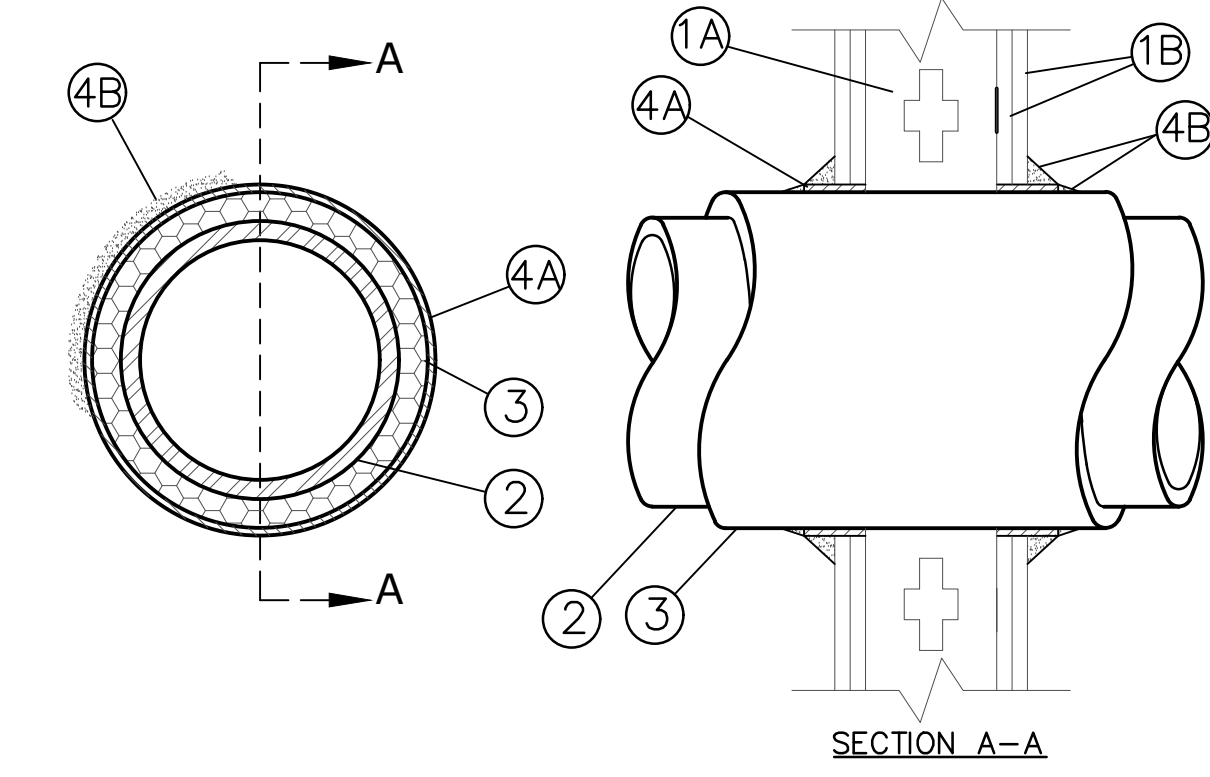
**WARD MFG INC**  
3. Fill/Void or Cavity Material\* - Caulk or Sealant - Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max. Pipe or Conduit Diam., In.	F Rating, Hr.	T Rating, Hr.
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

\*When copper pipe is used, T Rating is 0 hr.  
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.  
\*Bearing the UL Classification Marking  
NOTE  
THIS MATERIAL WAS EXTRACTED BY 3M FIRE PROTECTION PRODUCTS FROM THE 2004 EDITION OF THE UL FIRE RESISTANCE DIRECTORY.

**METALLIC PIPE FIRESTOPPING AT GYPSUM BOARD PARTITION**  
NO SCALE

**System No. W-L-5001**  
May 19, 2005  
(Formerly System No. 147)  
F Ratings - 1 and 2 Hr (See Item 1)  
T Ratings - 3/4, 1 and 1-1/2 Hr (See Item 3)  
L Rating At Ambient - 2 CFM/sq ft  
L Rating At 400 F - less than 1 CFM/sq ft



1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (25 mm by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
- B. Gypsum Board\* - Nom 5/8 in. (16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 18 in. (457 mm) for steel stud walls.
- C. Through Penetrant - One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
  - A. Steel Pipe - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - B. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
  - C. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- D. Pipe Covering\* - Nom 1 in. or 2 in. (25 mm or 51 mm) thick hollow cylindrical heavy density glass fiber units jacketed on the outside with an oil service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints sealed with metal fasteners or with butt strip tape supplied with the product. When nom 1 in. (25 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/4 in. to max 3/8 in. (6 mm to max 10 mm). When nom 2 in. (51 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/2 in. to max 3/4 in. (13 mm to max 19 mm).

See Pipe and Equipment Covering - Materials (BRO) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating of the firestop system is 3/4 hr when nom 1 in. (25 mm) thick pipe covering is used. The hourly T Rating of the firestop system is 1 hr and 1-1/2 hr when nom 2 in. (51 mm) thick pipe covering is used with 1 hr and 2 hr fire rated walls, respectively.

4. Firestop System - Installed asymmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:

- A. Fill/Void or Cavity Materials\* - Wrap Strip - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around pipe covering (fold side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. One layer of wrap strip is required when nom 1 in. (25 mm) thick pipe covering is used. Two layers of wrap strip are required when nom 2 in. (51 mm) thick pipe covering is used.
- B. Fill/Void or Cavity Materials\* - Caulk or Sealant - Min 1/4 in. (6 mm) diam continuous bead applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface.

3M COMPANY - FS-195+  
3M COMPANY - CP 25WB+, IC 15WB+, FireDam 150+ caulk or FB-3000 WT sealant  
\*Bearing the UL Classification Marking  
NOTE  
THIS MATERIAL WAS EXTRACTED BY 3M FIRE PROTECTION PRODUCTS FROM THE 2004 EDITION OF THE UL FIRE RESISTANCE DIRECTORY.

**INSUL. METALLIC PIPE FIRESTOPPING AT GYPSUM BOARD PARTITION**  
NO SCALE

PLOT DATE: 1/21/2025

NO SCALE

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ARKANSAS

SHEET TITLE  
DETAILS AND DIAGRAMS  
MECHANICAL/ ELECTRICAL

DATE  
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24-009A

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