

# UTILITY SHED PLANS

STATE OF MARYLAND (170 MPH) WINDS

**GENERAL NOTES:**

- THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE 2021 IRC & 2021 IBC.
- ALL MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH THE ABOVE CODE AND ALL OTHER APPLICABLE LOCAL CODES AT THE TIME OF MANUFACTURE.
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- THE FOUNDATION PLAN IS A SEPARATE SET OF PLANS FOR APPROVAL BY LOCAL MUNICIPALITIES.
- EXTERIOR DIMENSIONS CAN VARY BETWEEN LIMITS SHOWN @ 2'-0" o/c BUT MEMBER SPACING SHALL NOT EXCEED LIMITS AS INDICATED.
- ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC4B (GROUND CONTACT, HEAVY DUTY) SKIDS.
- ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC3B (EXTERIOR ABOVE GROUND, UNCOATED OR POOR WATER RUNOFF), FLOORS JOISTS, PLYWOOD FLOOR DECKING, AND EXTERIOR RATED WOOD STRUCTURAL PANEL SIDING.
- LP PROSTRUCT SUB-FLOORING 1/2" MAY BE USED IN LIEU OF PRESSURE TREATED PLYWOOD FLOORING.
- P.T. PLYWOOD FLOORING NOT REQUIRED WHERE THE BOTTOM OF THE FLOORING IS OVER 18" ABOVE GROUND SECTION 2304.11.2.1 MDBC 2021 ICC IRC.
- ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED (G185) OR STAINLESS STEEL.
- ALL WINDOWS WITHIN 24" OF DOORS, AND ALL GLASS IN DOORS SHALL BE SAFETY, TEMPERED, OR ACRYLIC PLASTIC SHEET.
- FOR ROOFS WITH ASPHALT SHINGLES AND A SLOPE BETWEEN 2 TO 12 AND 4 TO 12 SHALL HAVE A DOUBLE UNDERLAYMENT APPLICATION AS REQUIRED IN ACCORDANCE WITH SECTION 1507.2.8 OF THE 2021 ICC IRC MDBC.
- UNDERLAYMENT SHALL CONFORM WITH SECTION 1507.2.3 (ASPHALT SHINGLES) AND 1507.4.5 (METAL ROOF PANEL) OF THE 2021 ICC IRC MDBC.
- ASPHALT SHINGLES SHALL CONFORM WITH SECTION 1507.2.5 OF THE 2021 ICC IRC MDBC ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH 1507.2.7 OF THE 2021 ICC IRC MDBC.
- FASTENERS FOR ASPHALT SHINGLES SHALL CONFORM TO SECTION 1507.2.6 OF THE 2021 ICC IRC MDBC.
- TIE-DOWNS SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES.
- THESE PLANS HAVE NOT BEEN DESIGN FOR HHZ REQUIREMENTS AS SET FORTH IN THE 2021 ICC IRC MDBC OR FOR USE AS A COMMERCIAL BUILDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY AND PLACEMENT OF LAWN STORAGE UNIT TO INSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS.
- NO FIELD REVISIONS TO ANY STRUCTURAL COMPONENT OR DEVIATION FROM THESE DRAWINGS SHALL BE MADE.
- THE OWNER AND THE CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL LIABILITY CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF OR RESULTING FROM ERROR OR OMISSIONS IN THE PERFORMANCE OF THE WORK BY THE CONTRACTOR.
- SECTIONS AND DETAILS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ALL SIMILAR LOCATIONS, UNLESS OTHER SECTIONS AND DETAILS ARE SPECIALLY REFERENCED.
- REFER TO SUPPLIED FASTENING SCHEDULE FOR FASTENING BASE ON CONNECTION AND LOCATION OF MEMBERS AS PER 2021 ICC IRC CODE TABLE 2304.9.1 UNLESS NOTED OTHERWISE.
- BUILDINGS HAVE BEEN DESIGNED FOR LP SMARTSIDE PREVISION PANEL SIDING, LP SMARTSIDE PRECISION LAP SIDING SHALL NOT BE USED.
- FASTENERS IN LP SMARTSIDE PRECISION PANEL SIDING MUST NOT BE INSTALLED IN PANEL SIDING GROOVES IN THE FIELD OF THE PANEL SIDING OR WHEN THE PANEL SIDING GROOVES OCCUR AT CUT EDGES OF THE PANEL SIDING.
- REFER TO THE ICC-ES EVALUATION REPORT ESR-1301 FOR ADDITIONAL DATA AND SPECIFICATIONS OF LP SMARTSIDE PRECISION PANEL SIDING. MARYLAND PRODUCT APPROVAL 9190.5 & 9190.6
- MAX OPENING WIDTHS MUST COMPLY WITH DESIGN RATIOS AS PER ANSI/AF&PA SDPWS-2008. BUILDING HAVE DESIGNED TO HAVE ONLY OPENINGS WITH MAX WIDTHS EQUAL TO THOSE IN THE ENDWALL SHEAR WALL CHART.
- AS PER SECTION 553.73(10)(h), MARYLAND STATUTES, STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 720 SQUARE FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WIND-BORNE-DEBRIS-IMPACT STANDARDS OF THE MARYLAND BUILDING CODE. IN ADDITION, SUCH BUILDINGS THAT ARE 400 SQUARE FEET OR LESS AND THAT ARE INTENDED FOR USE IN CONJUNCTION WITH ONE-AND-TWO FAMILY RESIDENCES ARE NOT SUBJECT TO THE DOOR HEIGHT AND WIDTH REQUIREMENTS OF THE MARYLAND BUILDING CODE. SEE MDBC 1008.1.1 EXCEPTION (8).
- BUILDING HAVE BEEN DESIGNED TO HAVE ANCHORS DIRECTLY ATTACHED TO ALL FOUR CORNERS OR THE BUILDING TO RESIST TENSION FORCES FROM LATERAL WIND LOADS, THIS DESIGN CONSIDERATION MUST BE MADE BY INSTALLER WHEN ATTACHING ANCHORING SYSTEM TO BUILDING.
- UNLESS NOTED OTHERWISE, ATTACH ALL MANUFACTURED PRODUCTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

**NOTE:**

THIS BUILDING IS NOT DESIGNED FOR HUMAN HABITATION AND DOES NOT HAVE RUNNING WATER OR SANITATION SERVICES. THIS BUILDING IS DESIGNED AS A UTILITY SHED TO STORE LAWN EQUIPMENT SUCH AS WHEEL BARROWS GARDENING SUPPLIES, FLOWER POTS, AND CARDBOARD BOXES WITH VARIOUS SMALL ITEMS.

**SITE INSTALLED ITEMS:**

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTIONAL APPROVAL.

- THE COMPLETE FOUNDATION SUPPORT AND TIE-DOWN SYSTEM.
- RAMPS, STAIRS, AND GENERAL ACCESS TO THE BUILDING IF NECESSARY.
- GUTTERS AND DOWNSPOUTS ON ALL BUILDINGS WITH EAVES OF LESS THAN 6 INCHES HORIZONTAL PROJECTION EXCEPT FOR GABLE END RAKES.

SHED MANUFACTURER SHALL HAVE A LIST OF ALL REQUIRED PRODUCTS THAT NEED MARYLAND STATE APPROVAL AVAILABLE FOR 3RD PARTY INSPECTOR AND REVIEW BY E.O.R. FOR COMPLIANCE WITH WIND LOADS



DESIGN CRITERIA:	
1. WIND VELOCITY	170 MPH.
2. BUILDING CATEGORY	I
3. WIND EXPOSURE	C
4. INT. PRESSURE COEFFICIENT	±0.18
5. ENCLOSURE CLASSIFICATION	ENCLOSED
6. BASED ON HEIGHT	15 FEET
7. OVERHANG	NO
8. FLOOR DESIGN LIVE LOAD FLOOR DESIGN DEAD LOAD	50 PSF 4 PSF
9. ROOF DESIGN LIVE LOAD ROOF DESIGN DEAD LOAD	20 PSF 7 PSF
10. WALL DESIGN DEAD LOAD	3 PSF
11. SNOW LOAD (FOR 61-90 PSF SNOW, TRUSSES @ 16" SPECIAL ORDER)	60 PSF
12. CONSTRUCTION TYPE	V B
13. BUILDING OCCUPANCY =	U
14. FIRE RATING EXT. WALLS	0
15. ALLOWABLE NUMBER OF FLOORS	1
16. THE CONTRACTOR / MANUFACTURER MUST COMPLY WITH THE FOLLOWING CODES AND ALL OF THEIR AMENDMENTS / SUPPLEMENTS.	

**MARYLAND CODE SUMMARY**  
LATEST BUILDING CODES  
2021 INTERNATIONAL RESIDENTIAL CODE  
2021 INTERNATIONAL BUILDING CODE

SHEET LIST	
SHEET NUMBER	SHEET TITLE
C-1	COVER SHEET
C-2	FASTENING SCHEDULE / WIND LOADING / SHEARWALL CHART
A-1	FRAMING PLANS & DETAILS
A-2	FRAMING PLANS & DETAILS
A-3	SECTIONS
A-4	PLANS & DETAILS
A-5	TYPICAL DETAILS
A-6	TYPICAL DETAILS
A-7	OPTIONAL PORCH DETAILS
A-8	ANCHORING DETAILS & SCHEDULES
A-9	ANCHORING SPEC SHEETS
A-10	TRUSS DETAILS

AREA FOR APPROVAL STAMPS

PROJECT: UTILITY SHED

COVER SHEET & GENERAL NOTES

DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER



ENGINEERING SERVICES PROVIDED FOR:  
**PREMIER PORTABLE BUILDINGS**  
317 EAST STATE LINE ROAD  
SOUTH FULTON, TN 38257  
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
△			
△			
△			
△			

DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG

DWG NO.: **C-1**



**FASTENING SCHEDULE (2304.9.1 MBC)**

CONNECTION	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON (2½"x0.131") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
2. BRIDGING TO JOIST	2 - 8d COMMON (2½"x0.131") 2 - 3"x0.131" NAILS 2 - 3" 14 GAGE STAPLES	TOE-NAIL EACH END
3. SOLE PLATE TO JOIST OR BLOCKING	16d (3½"x0.135") @ 16" o/c 3"x0.131" NAILS @ 8" o/c 3" 14 GAGE STAPLES @ 12" o/c	TYPICAL FACE NAIL
4. SOLE PLATE TO JOIST OR BLOCKING @ BRACED WALL PANEL	3 - 16d (3½"x0.135") @ 16" o/c 4 - 3"x0.131" NAILS @ 16" o/c 4 - 3" 14 GAGE STAPLES @ 16" o/c	BRACED WALL PANELS
5. TOP PLATE TO STUD	2 - 16d (3½"x0.162") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	END NAIL
6. STUD TO SOLE PLATE	4 - 8d COMMON (2½"x0.131") 4 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
		END NAIL
7. DOUBLE STUDS	16d (3½"x0.135") @ 24" o/c 3"x0.131" NAILS @ 8" o/c 3" 14 GAGE STAPLES @ 8" o/c	FACE NAIL
		TYPICAL FACE NAIL
8. DOUBLE TOP PLATES	16d (3½"x0.135") @ 16" o/c 3"x0.131" NAILS @ 12" o/c 3" 14 GAGE STAPLES @ 12" o/c	LAP SPLICE
		LAP SPLICE
9. BLOCKING BETWEEN JOISTS OR TRUSSES TO TOP PLATE	3 - 8d COMMON (2½"x0.131") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOE-NAIL
10. TOP PLATES, LAPS AND INTERSECTIONS	2 - 16d (3½"x0.162") 3 - 3"x0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL
11. CONTINUOUS HEADER (2) PIECES	8 - 16d COMMON (3½"x0.162")	16" o/c ALONG EDGE
12. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (2½"x0.131")	TOE-NAIL
13. BUILT-UP CORNER STUDS	16d (3½"x0.135") @ 24" o/c 3"x0.131" NAILS @ 16" o/c 3" 14 GAGE STAPLES @ 16" o/c	@ 24" o/c @ 16" o/c @ 16" o/c
14. DOUBLE TOP PLATES	20d (4"x0.192") @ 32" o/c 3"x0.131" NAILS @ 24" o/c 3" 14 GAGE STAPLES @ 24" o/c	FACE NAIL @ TOP & BOTTOM STAGGERED ON OPP. SIDES
		FACE NAIL @ ENDS AND AT EACH SPLICE
15. JOIST TO BAND JOIST	3 - 16d COMMON (3½"x0.162") 4 - 3"x0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
16. WOOD STRUCTURAL PANELS AND PARTICLE BOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	½" AND LESS 6d <sup>J</sup> 2½"x0.113" NAIL <sup>L</sup> 1¾" 16 GAGE <sup>M</sup> 1½" TO ¾" 8d <sup>F</sup> OR 2½"x0.113" NAIL <sup>N</sup> 2" 16 GAGE <sup>N</sup> ¾" TO 1" 8d <sup>F</sup> OR 8d <sup>F</sup> ½" TO ¼" 10d <sup>F</sup> OR 8d <sup>F</sup>	SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)
		SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)
17. 29ga. STEEL SIDING (TO FRAMING)	½" OR LESS 6d <sup>F</sup> ¾" 8d <sup>F</sup>	NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
18. FIBERBOARD SHEATHING <sup>9</sup>	½" NO. 11 GAGE ROOFING NAIL <sup>h</sup> 6d COMMON NAIL (2"x0.113") NO 16 GAGE STAPLE <sup>3</sup>	
		2½" NO. 11 GAGE ROOFING NAIL <sup>h</sup> 8d COMMON NAIL (2½"x0.131") NO 16 GAGE STAPLE <sup>3</sup>

**SHEARWALL CHART**

BUILDING WIDTH	OPENING WIDTHS IN ENDWALL	MAX. LENGTH OF BUILDING		
		19/32" T1-11 <sup>1</sup>	¾" LP SMARTSIDE PANEL <sup>2</sup>	ALUMINUM OVER 7/16" OSB <sup>4</sup>
8'-0"	3'-0" MAX.	24'-0"	20'-0"	24'-0"
10'-0"	3'-0" MAX.	30'-0"	30'-0"	30'-0"
	6'-0"		16'-0"	
11'-2"	3'-0" MAX.	36'-0"	36'-0"	36'-0"
	6'-0"		24'-0"	
	9'-0"		28'-0"	
14'-0"	3'-0" MAX.	40'-0"	40'-0"	40'-0"
	6'-0"		34'-0"	
16'-0"	3'-0" MAX.	40'-0"	40'-0"	40'-0"
	6'-0"		30'-0"	

- COMMON OR BOX NAIL ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
- NAILS SPACED @ 6" o/c AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE, FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305 FBC. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
- COMMON OR DEFORMED SHANK (6d - 2"x0.113"; 8d - 2½"x0.131"; 10d 3"x0.148").
- COMMON (6d - 2"x0.113"; 8d - 2½"x0.131"; 10d 3"x0.148").
- DEFORMED SHANK (6d - 2"x0.113"; 8d 2½"x0.131" 10d 3"x0.148").
- CORROSION-RESISTANT SIDING (6d - 1½"x0.106"; 8d 2½"x0.128") OR CASING (6d 2½"x0.099"; 8d 2 ½"x0.113") NAIL. FASTENERS SPACED 3" o/c AT EXTERIOR EDGES AND 6" o/c AT INTERMEDIATE SUPPORTS WHEN USED AS STRUCTURAL SHEATHING.
- CORROSION-RESISTANT ROOFING NAILS w/ 7/16" DIAMETER HEAD AND 1 ½" LENGTH FOR ½" SHEATHING AND 1 ¾" LENGTH FOR ¾" SHEATHING.
- CORROSION-RESISTANT STAPLES WITH NOMINAL ¼" CROWN OR 1" CROWN AND 1 ¼" LENGTH FOR ½" SHEATHING AND 1 ½" LENGTH FOR ¾" SHEATHING. PANEL SUPPORTS @ 16" o/c(20" IF STRENGTH AXIS IS THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED.)
- FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2½"x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF ¼".
- FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" o/c AT EDGES, 8" o/c AT INTERMEDIATE SUPPORTS.
- FASTENERS SPACED 4" o/c AT EDGES, 8" o/c AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" o/c AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
- FASTENERS SPACED 4" o/c AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

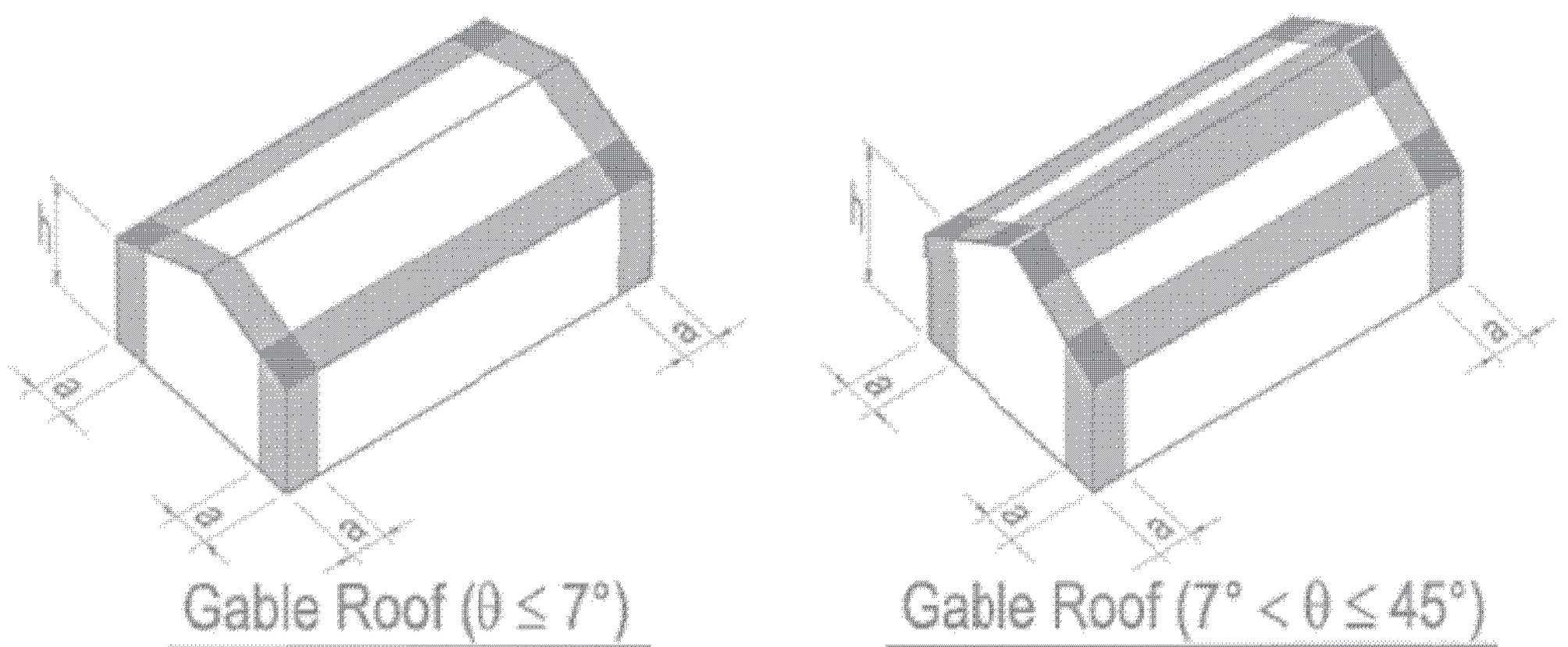
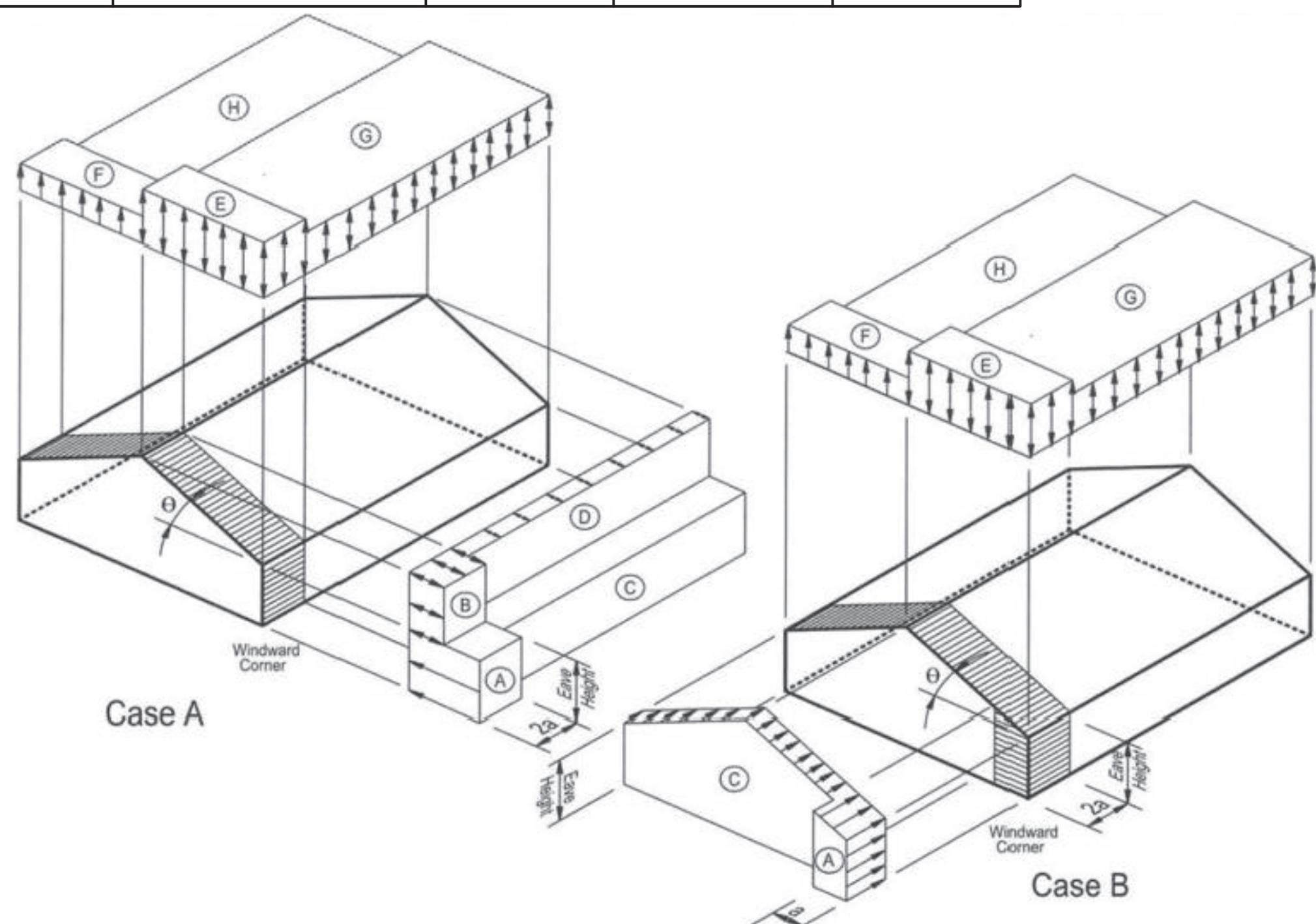
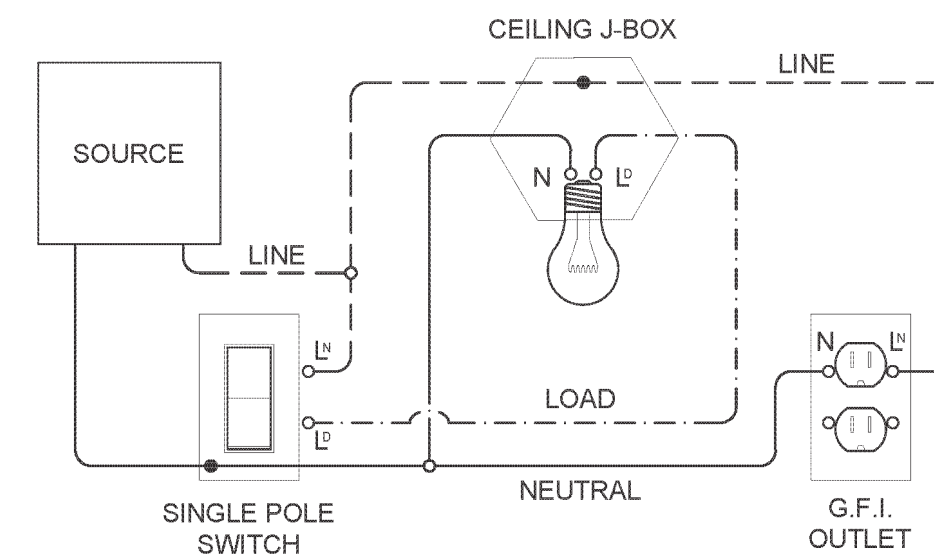
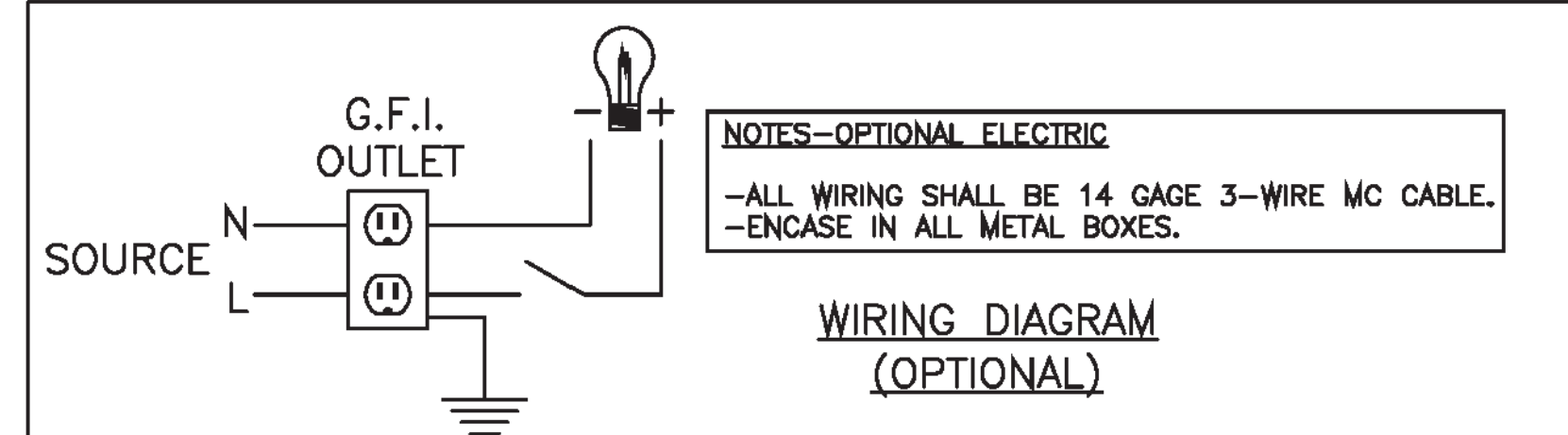


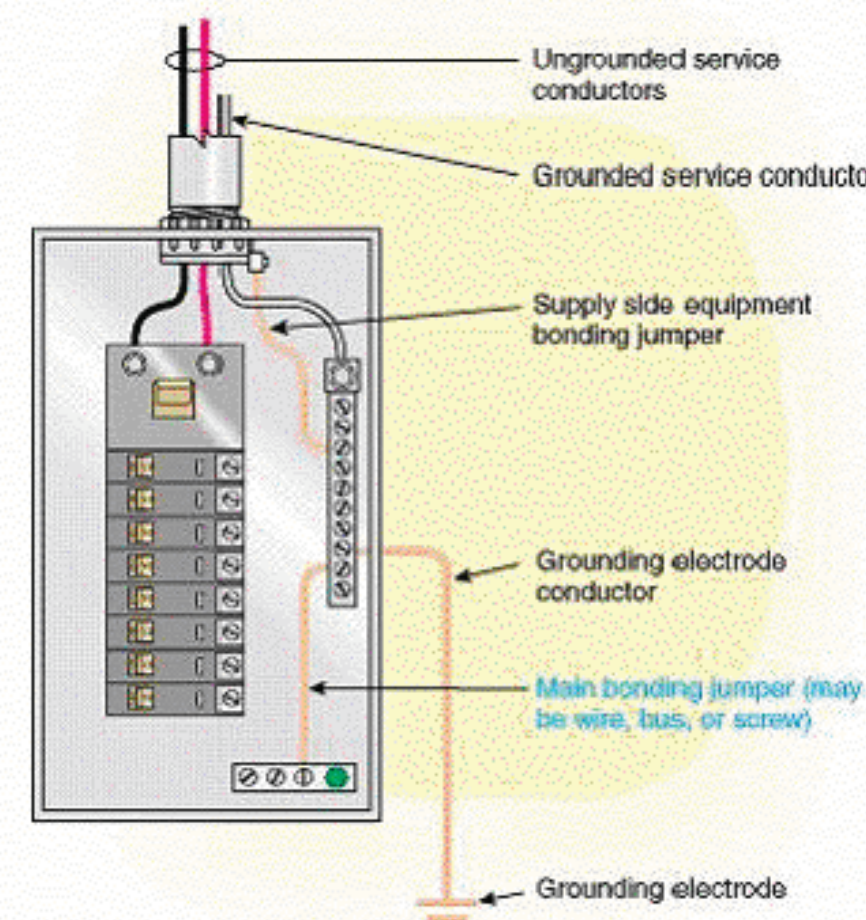
FIGURE 1609.6.2.2 COMPONENT AND CLADDING PRESSURE



**ELECTRICAL NOTES & OPTIONS:**  
- AS PER NEX ARTICLE 330.30(B) SECURING OF MC TYPE CABLE. UNLESS OTHERWISE PROVIDED, CABLES SHALL BE SECURED AT INTERVALS NOT EXCEEDING 6FT. CABLES CONTAINING FOUR OR FEWER CONDUCTORS SIZED NO LARGER THAN 10 AWG SHALL BE SECURED WITHIN 12 IN. OF EVERY BOX, CABINET, FITTING, OR OTHER CABLE TERMINATION.  
- ALL WIRING SHALL BE 14 GAUGE 3-WIRE MC CABLE.  
- ENCASE IN ALL METAL BOXES.

MAXIMUM NO. OF OUTLETS: 7  
MAXIMUM NO. OF LIGHTS: 8

**ELECTRICAL WIRING DIAGRAM**  
SCALE: NOT TO SCALE



AREA FOR APPROVAL STAMPS

PROJECT: UTILITY SHED

FASTENING SCHEDULE / WIND LOADING

DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

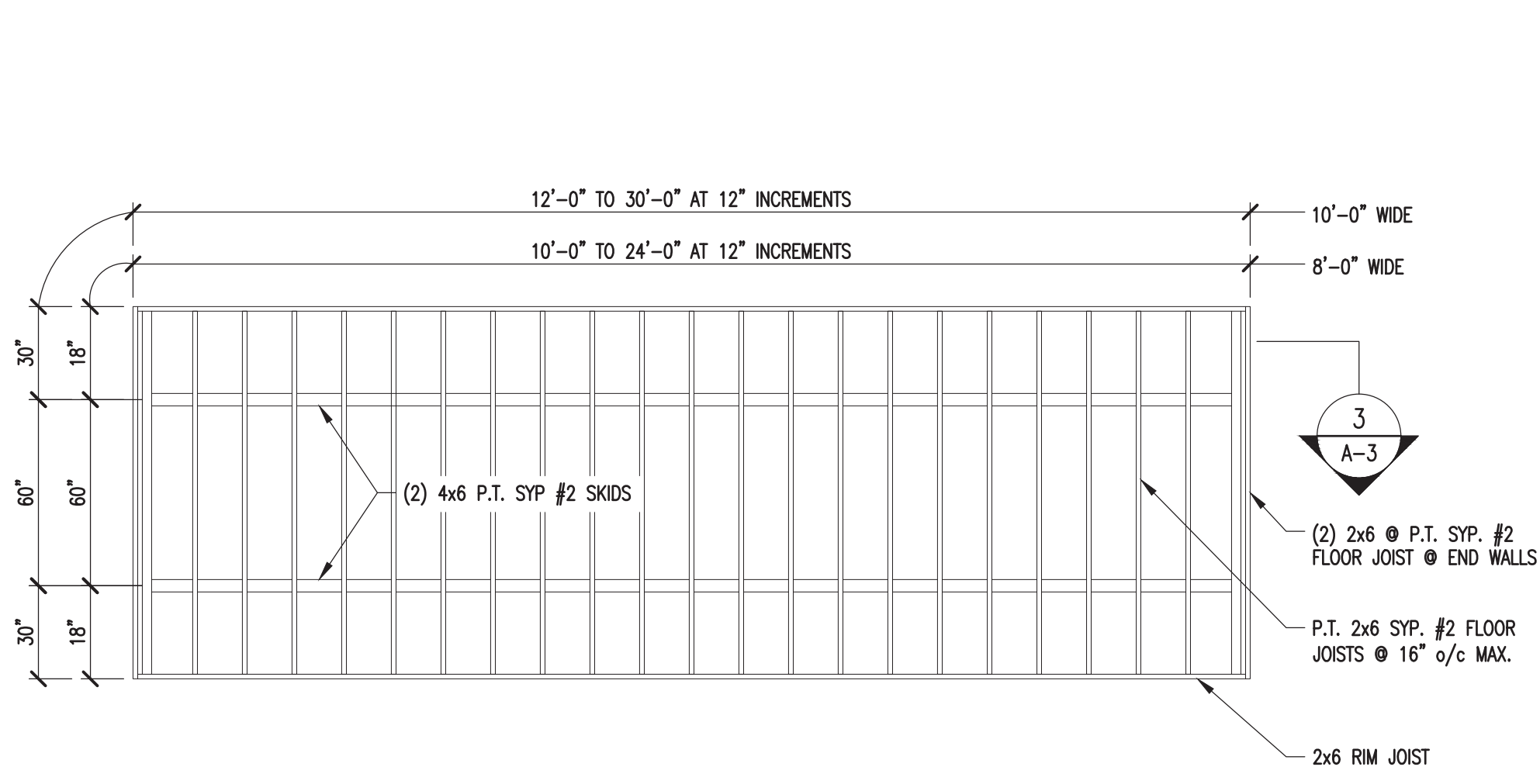
**ADS** ALTERNATE DESIGN SOLUTIONS  
STRUCTURAL ENGINEERING DESIGN & CONSTRUCTION SERVICES  
PHONE: 215.355.4684  
WWW.ALTERNATEDESIGNSOLUTIONS.COM

ENGINEERING SERVICES PROVIDED FOR:  
**PREMIER PORTABLE BUILDINGS**  
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SOUTH FULTON, TN 38257  
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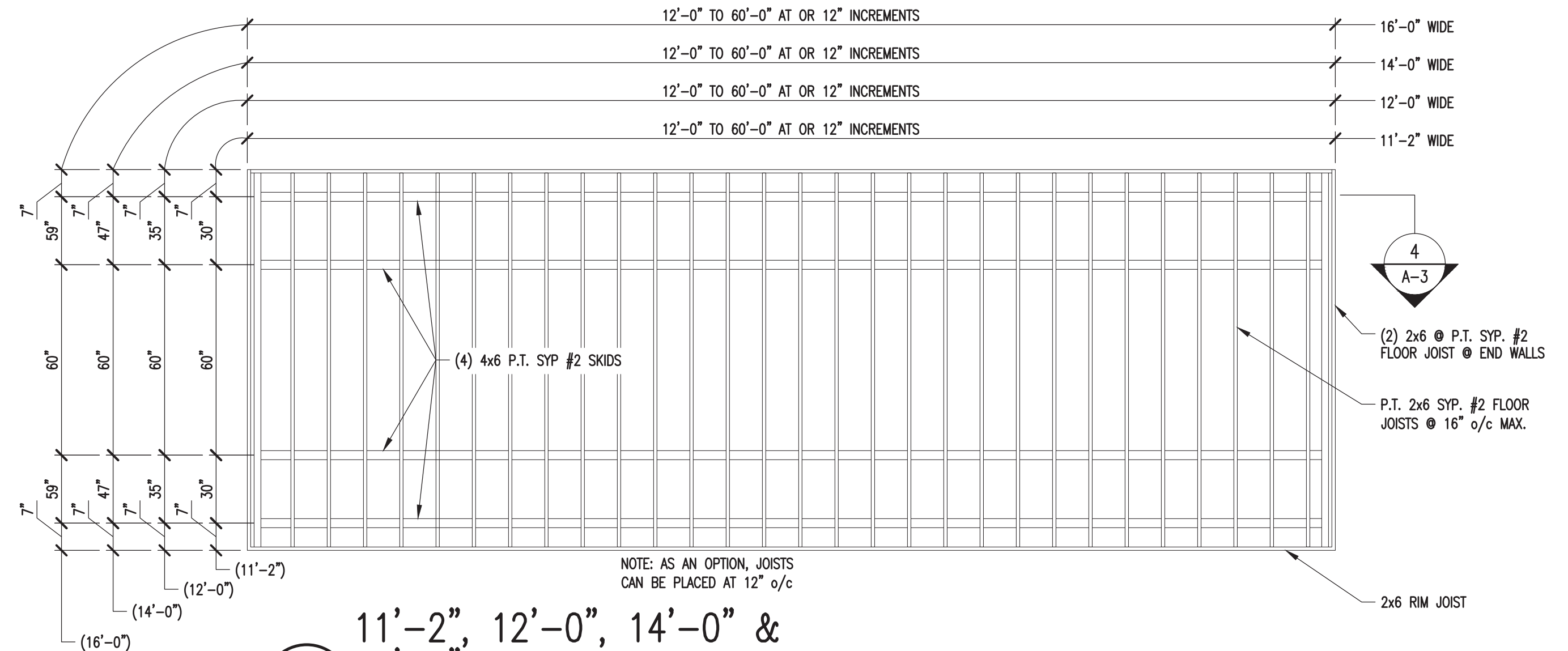
REVISION	DESCRIPTION	DATE	BY
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DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG  
DWG NO.: C-2



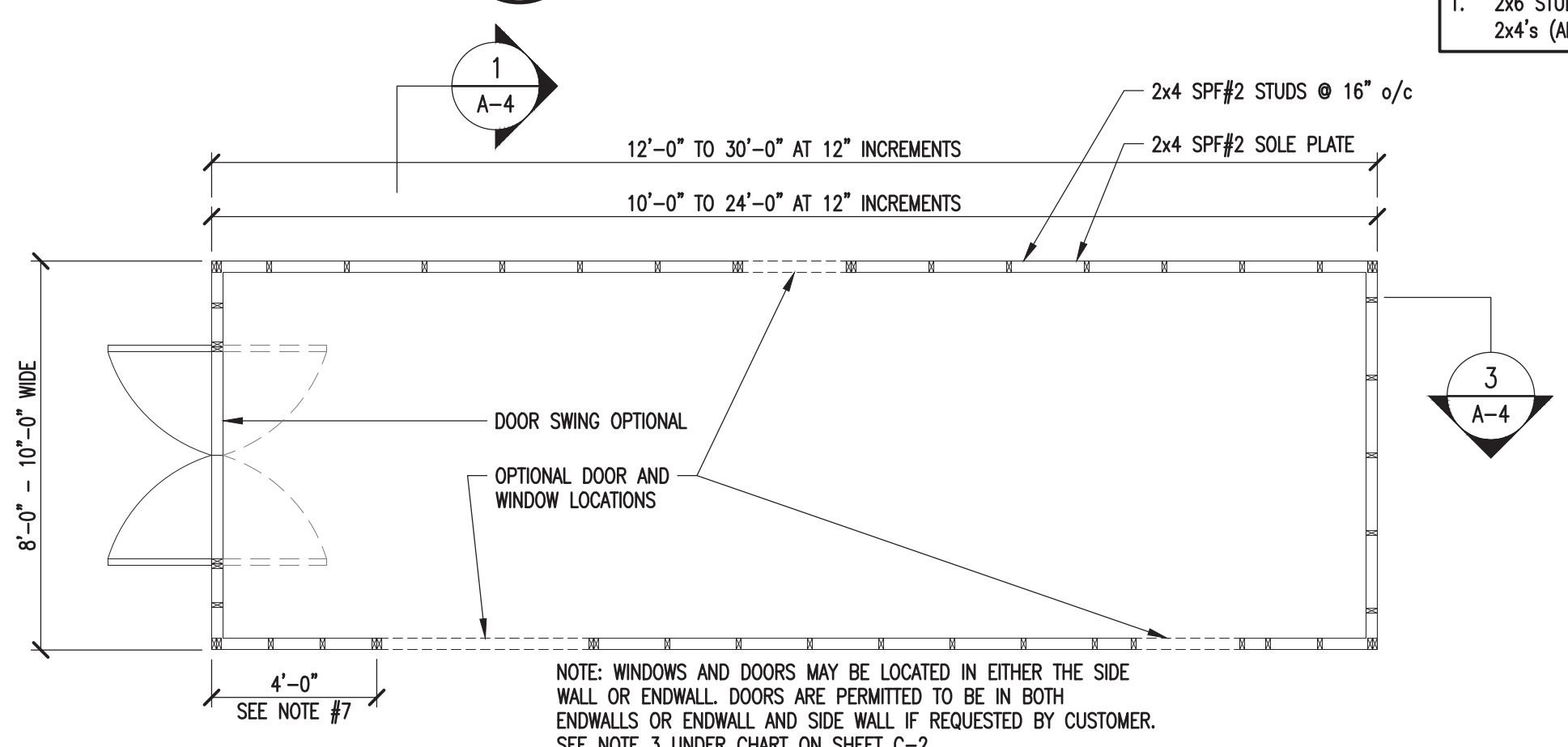


**1 FLOOR FRAMING PLAN**  
 SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)

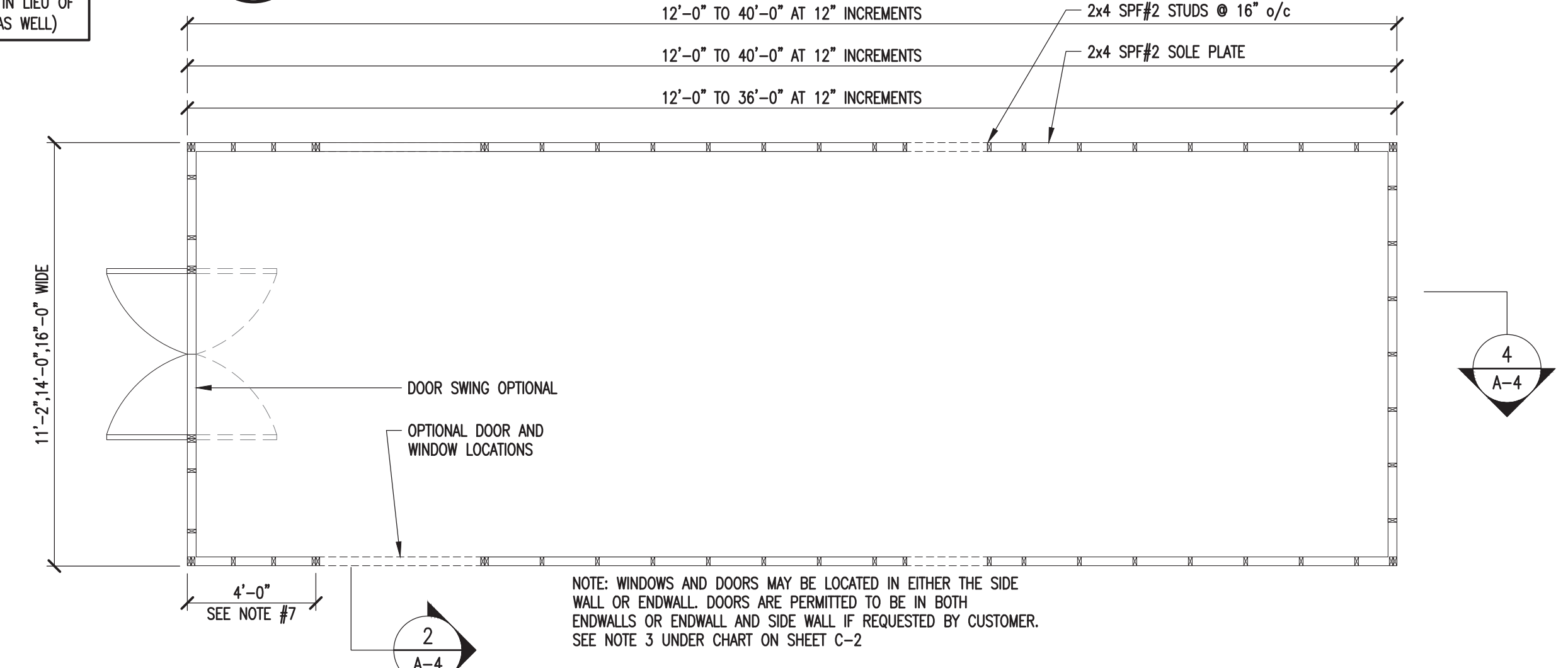


**2 FLOOR FRAMING PLAN**  
 SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)

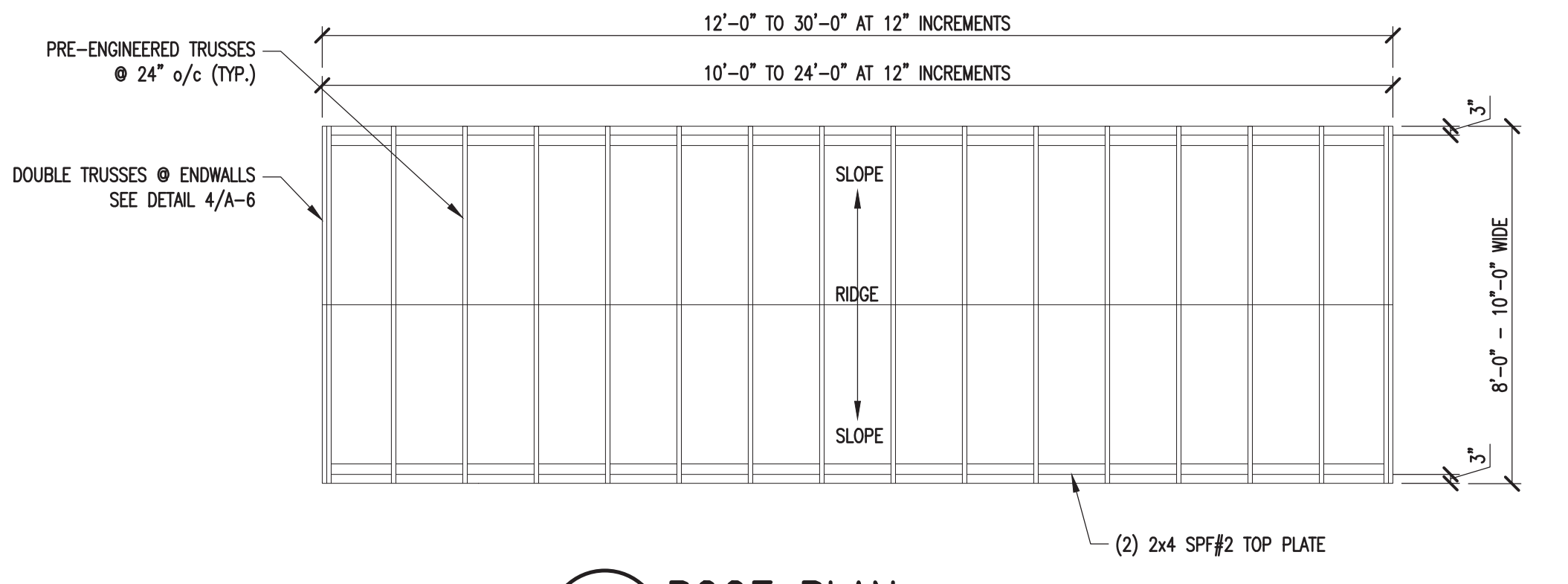
**NOTE:**  
 1. 2x6 STUD FRAMING MAY BE USED IN LIEU OF 2x4's (ALSO FOR ROOF TRUSSES AS WELL)



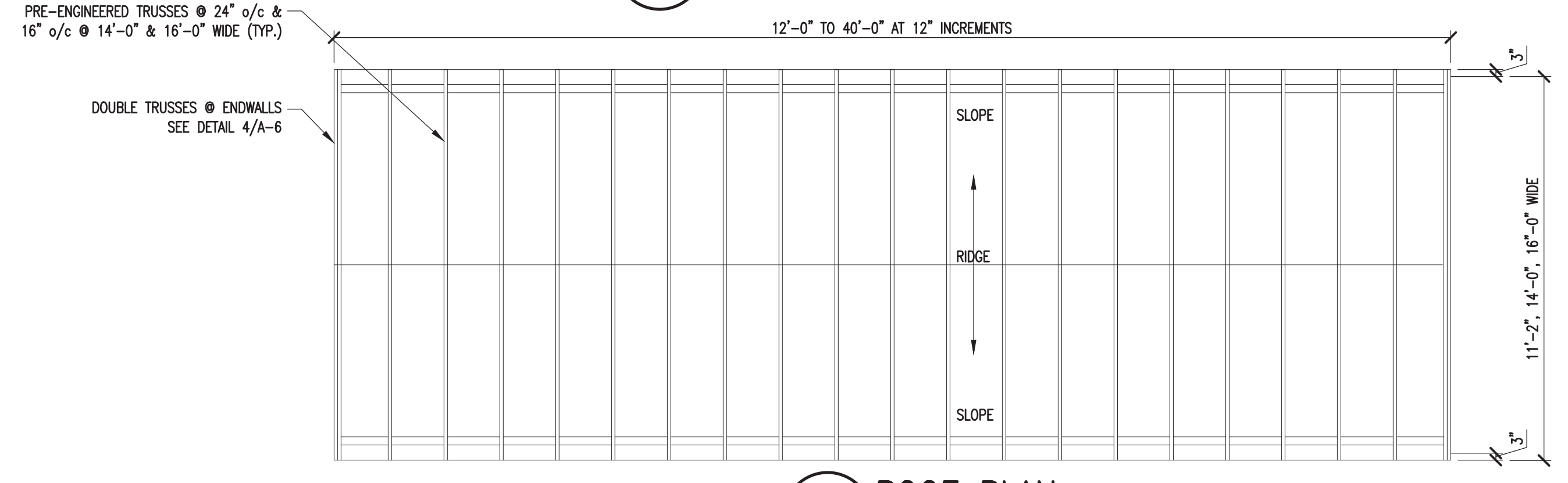
**3 FLOOR DECK PLAN**  
 SCALE: 1/4"=1'-0"



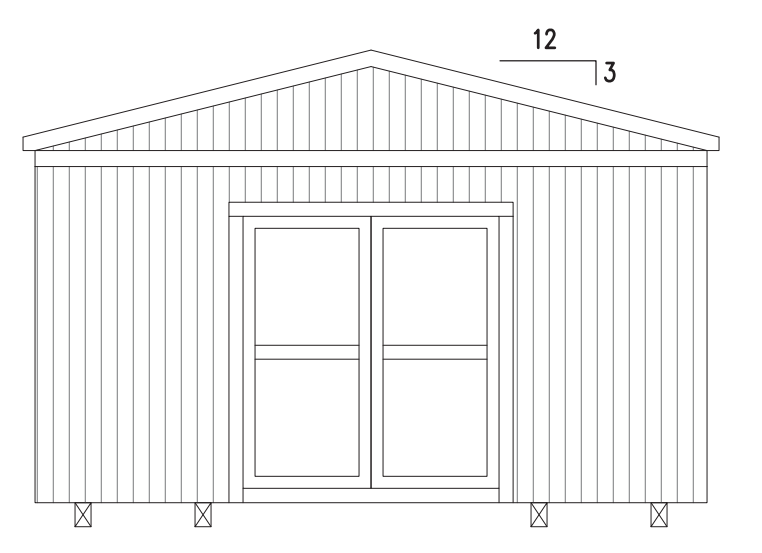
**4 FLOOR DECK PLAN**  
 SCALE: 1/4"=1'-0"



**5 ROOF PLAN**  
 SCALE: 1/4"=1'-0"

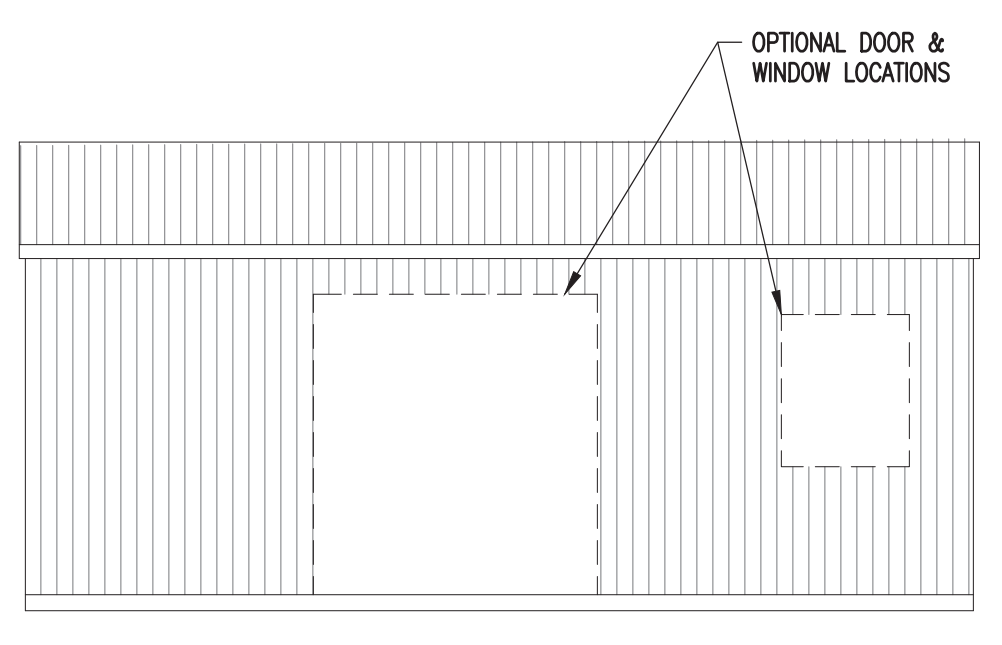


**6 ROOF PLAN**  
 SCALE: 1/4"=1'-0"

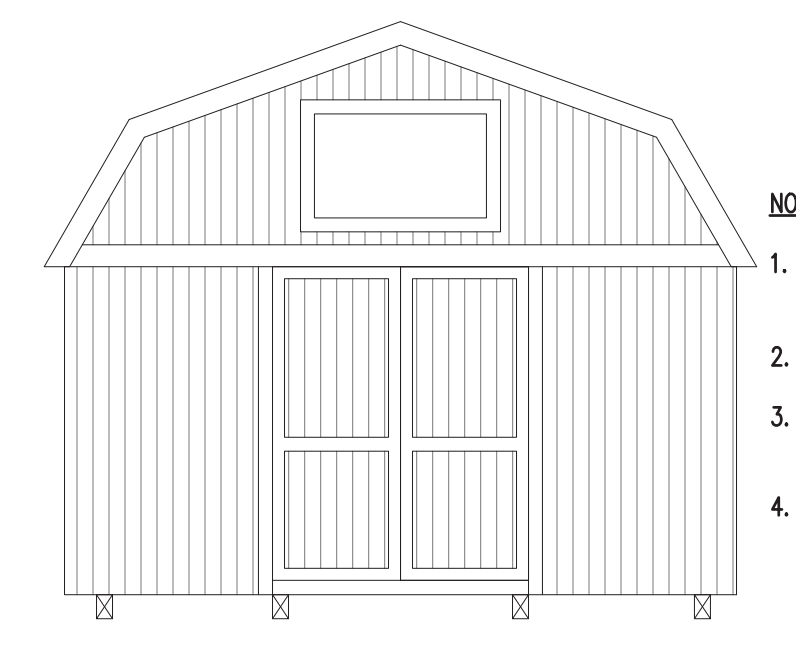


**7 GABLE ENDWALL ELEVATION**  
 SCALE: 1/4"=1'-0"

**NOTE:**  
 1. DOUBLE WALL STUDS SHALL BE FASTENED AS PER FASTENING SCHEDULE PROVIDED.  
 2. SEE 12/A-4 FOR CORNER STUD DETAIL.  
 3. FOR ALL FASTENING NOT SHOWN, SEE FASTENING SCHEDULE ON SHEET C-2.  
 4. AS AN OPTION, STUDS CAN BE PLACED @ 16" o/c.  
 5. ALL BUILDING w/ TRUSSES AND STUDS 2'-0" o/c CAN ONLY USE SINGLE TOP PLATE.  
 6. STUDS SHALL FALL IN LINE w/ TRUSSES.  
 7. STUDS @ 16" o/c FOR FIRST 4' FOR ALL CORNERS.

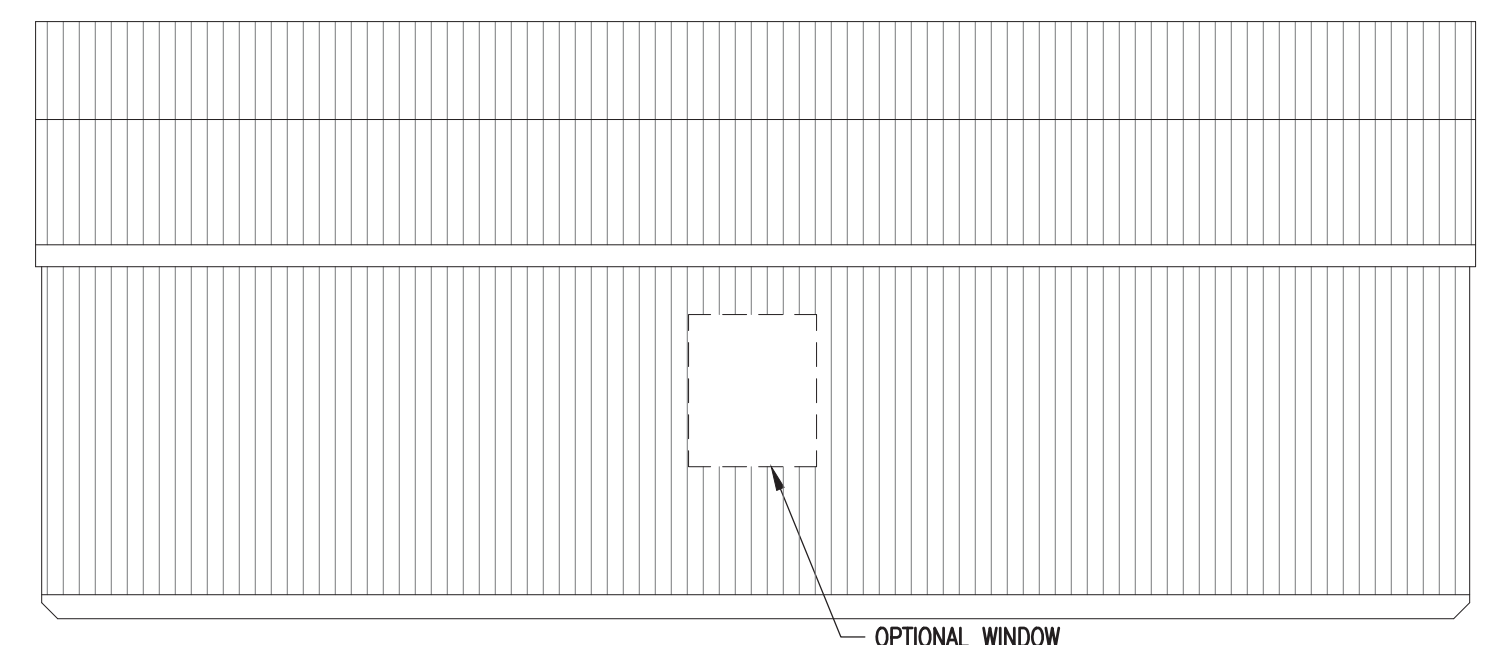


**8 SIDEWALL ELEVATION**  
 SCALE: 1/4"=1'-0"



**9 GAMBREL ENDWALL ELEVATION**  
 SCALE: 1/4"=1'-0"

**NOTE:**  
 1. DOUBLE WALL STUDS SHALL BE FASTENED AS PER FASTENING SCHEDULE PROVIDED.  
 2. SEE 12/A-4 FOR CORNER STUD DETAIL.  
 3. FOR ALL FASTENING NOT SHOWN, SEE FASTENING SCHEDULE ON SHEET C-2.  
 4. AS AN OPTION, STUDS CAN BE PLACED @ 16" o/c.



**10 SIDEWALL ELEVATION**  
 SCALE: 1/4"=1'-0"

PROJECT: UTILITY SHED

GABLE & GAMBREL SHEDS  
 FLOOR DECK FRAMING PLANS & DETAILS

DON VAN GERVE, P.E.  
 SPECIALTY STRUCTURAL ENGINEER

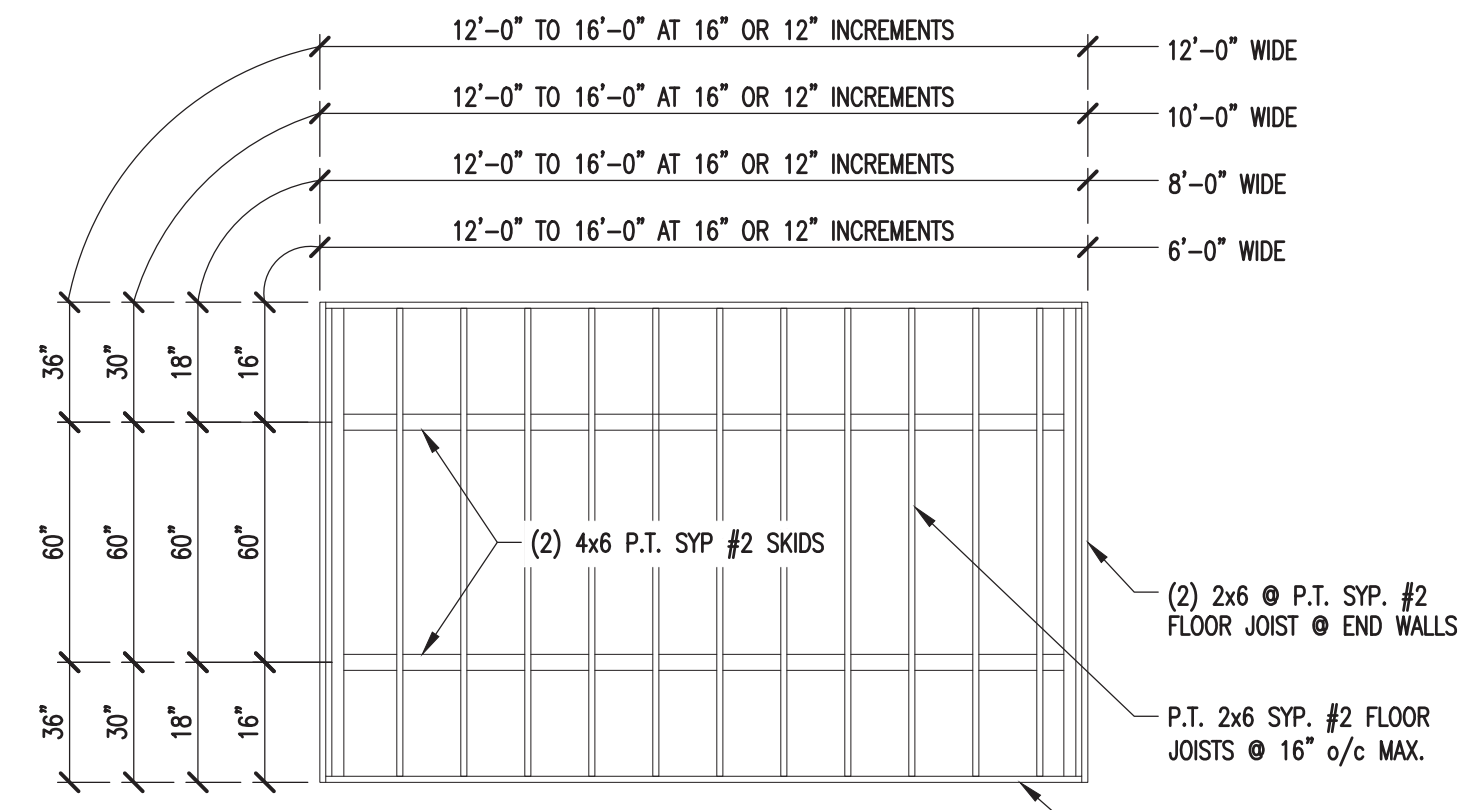


ENGINEERING SERVICES PROVIDED FOR:  
 PREMIER PORTABLE BUILDINGS  
 317 EAST STATE LINE ROAD  
 SOUTH FULTON, TN 38257  
 WWW.PREMIERBUILDINGS.US

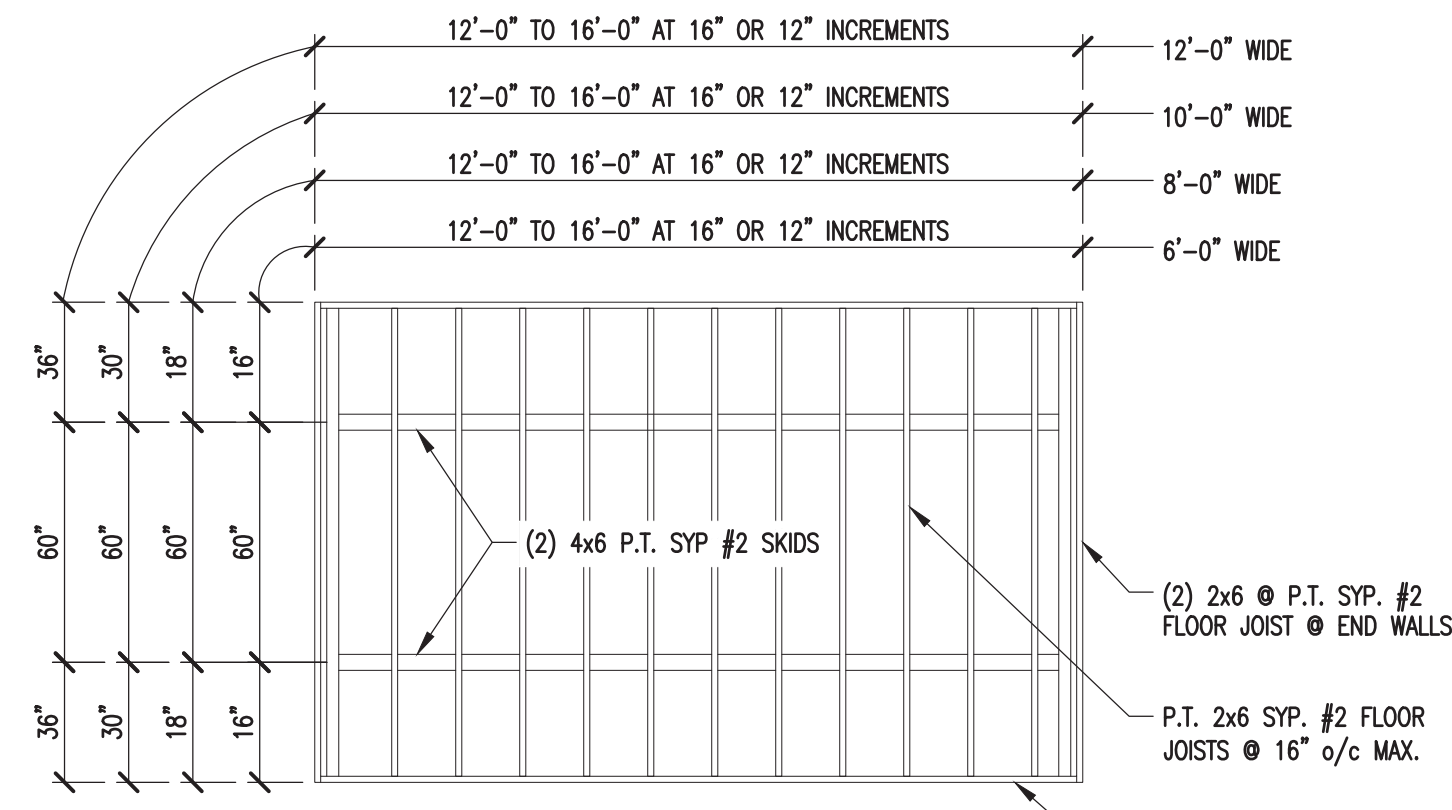
REVISION	DESCRIPTION	DATE	BY

DATE: 2.6.25  
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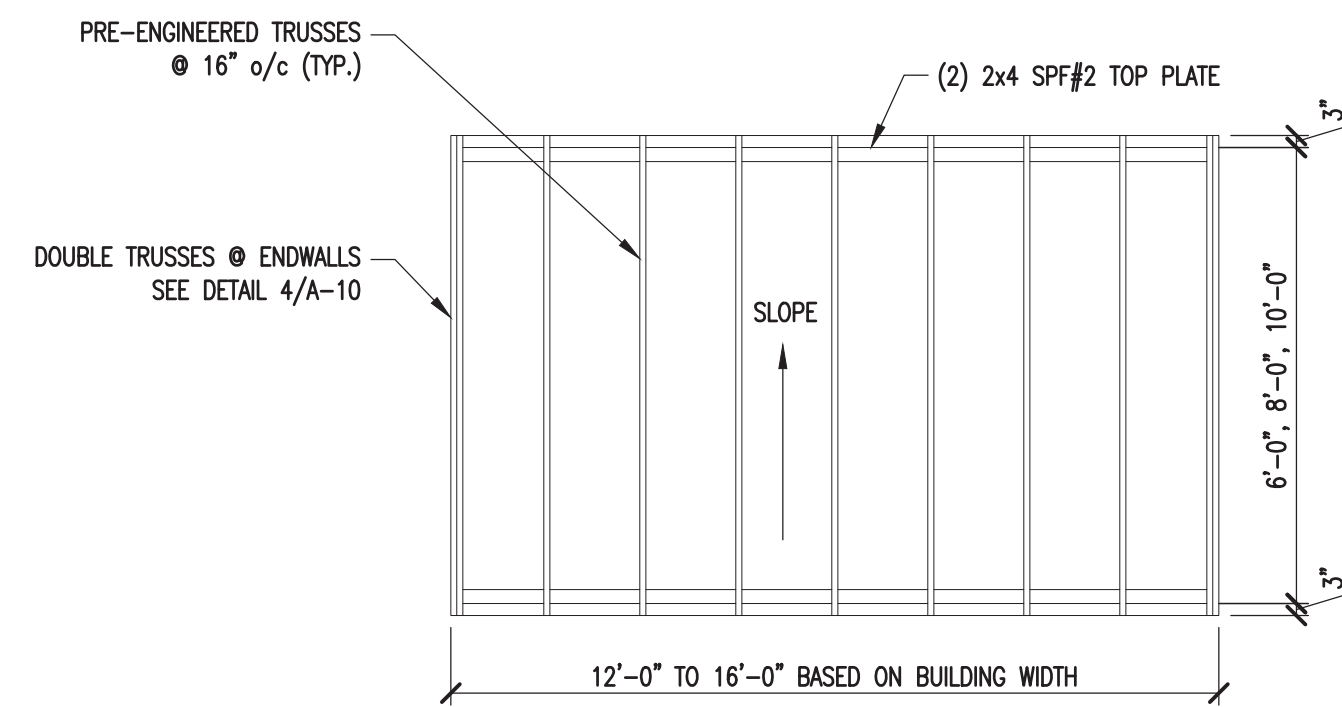




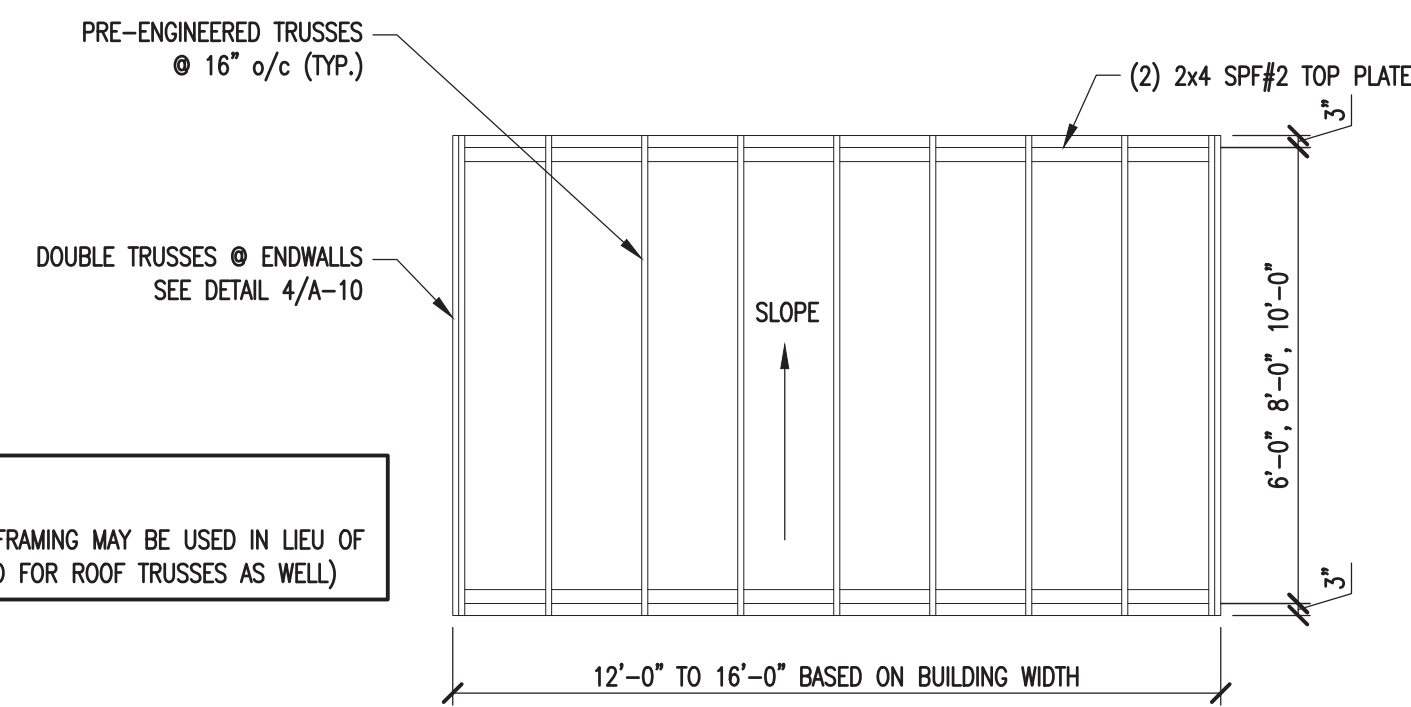
**1 GARDEN SHED FLOOR FRAMING PLAN**  
A-2 SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)



**2 COTTAGE SHED FLOOR FRAMING PLAN**  
A-2 SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)

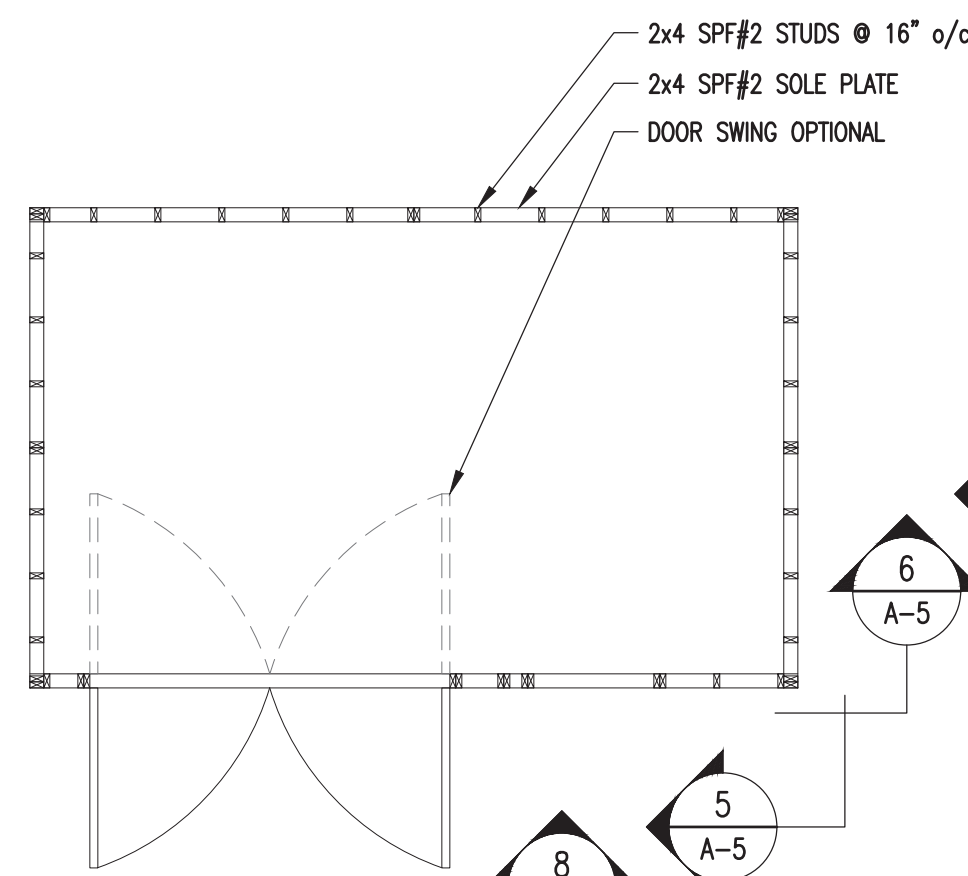


**3 ROOF FRAMING PLAN**  
A-2 SCALE: 1/4"=1'-0"

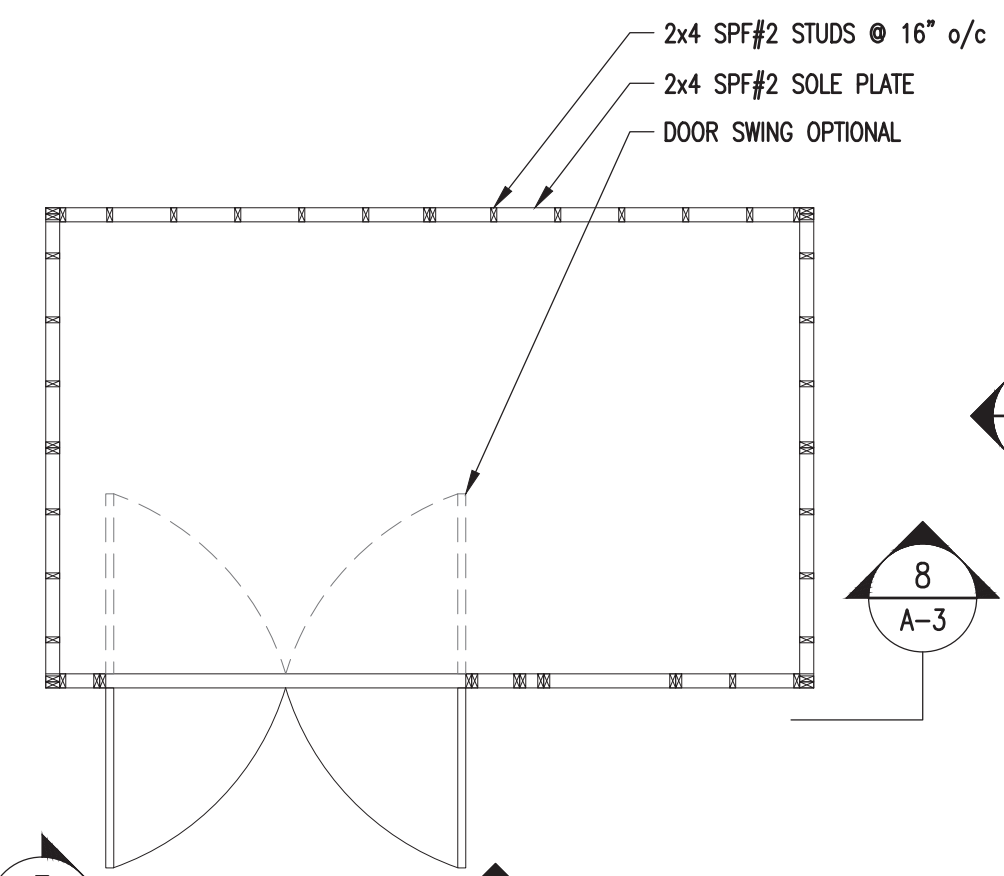


**4 ROOF FRAMING PLAN**  
A-2 SCALE: 1/4"=1'-0"

**NOTE:**  
1. 2x6 STUD FRAMING MAY BE USED IN LIEU OF 2x4's (ALSO FOR ROOF TRUSSES AS WELL)

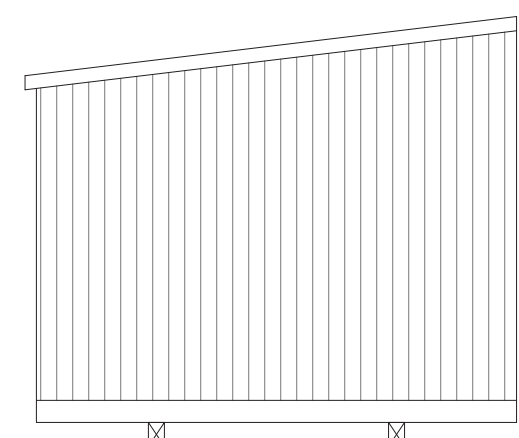


**5 FLOOR DECK PLAN**  
A-2 SCALE: 1/4"=1'-0"

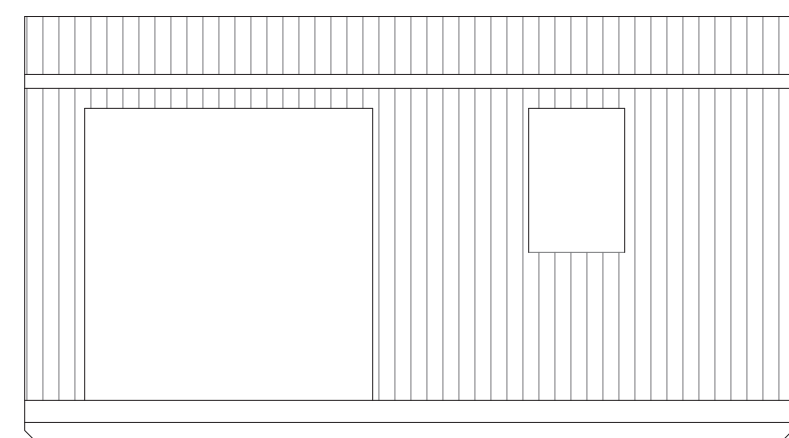


**6 FLOOR DECK PLAN**  
A-2 SCALE: 1/4"=1'-0"

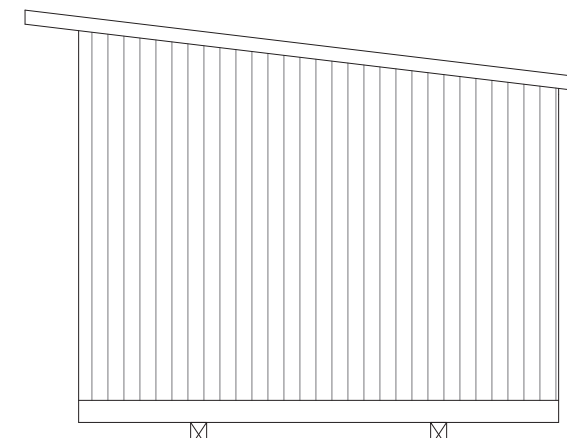
**NOTE:**  
1. DOUBLE WALL STUDS SHALL BE FASTENED AS PER FASTENING SCHEDULE PROVIDED.  
2. SEE 12/A-5 FOR CORNER STUD DETAIL.  
3. FOR ALL FASTENING NOT SHOWN, SEE FASTENING SCHEDULE ON SHEET C-2.  
4. AS AN OPTION, STUDS CAN BE PLACED @ 16" o/c.  
5. ALL BUILDING W/ TRUSSES AND STUDS 2'-0" o/c CAN ONLY USE SINGLE TOP PLATE.  
6. STUDS SHALL FALL IN LINE W/ TRUSSES.



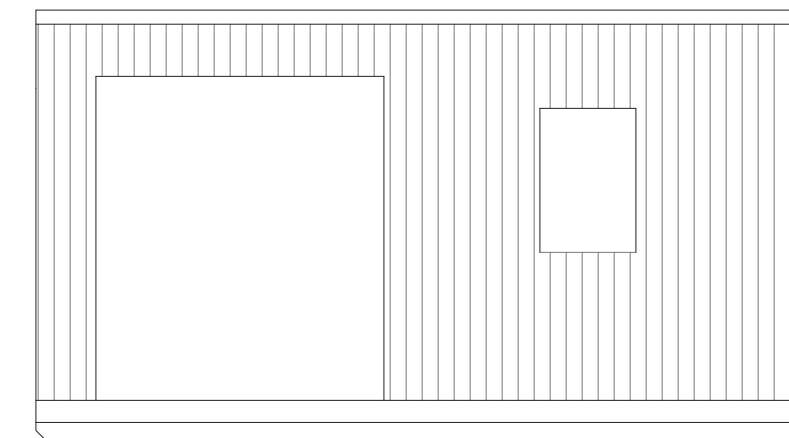
**7 ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



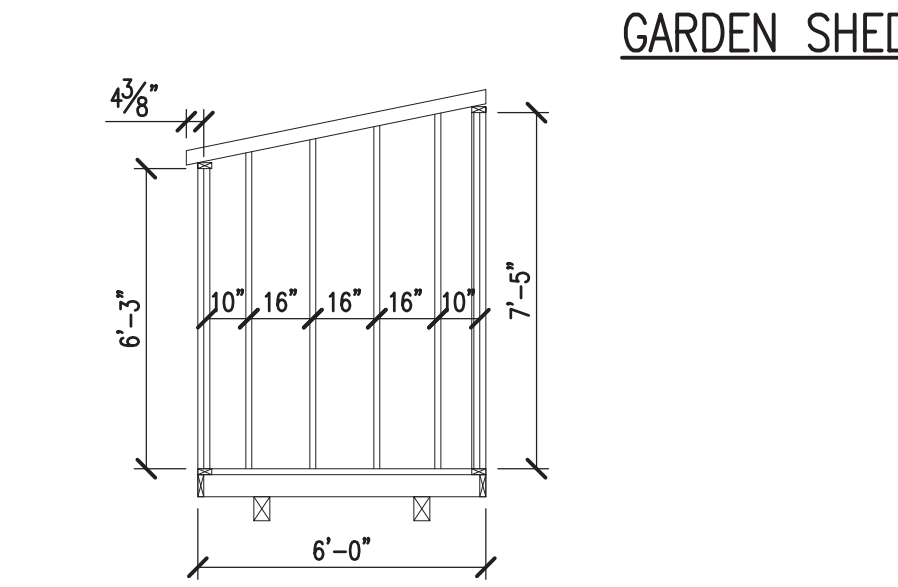
**8 SIDEWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



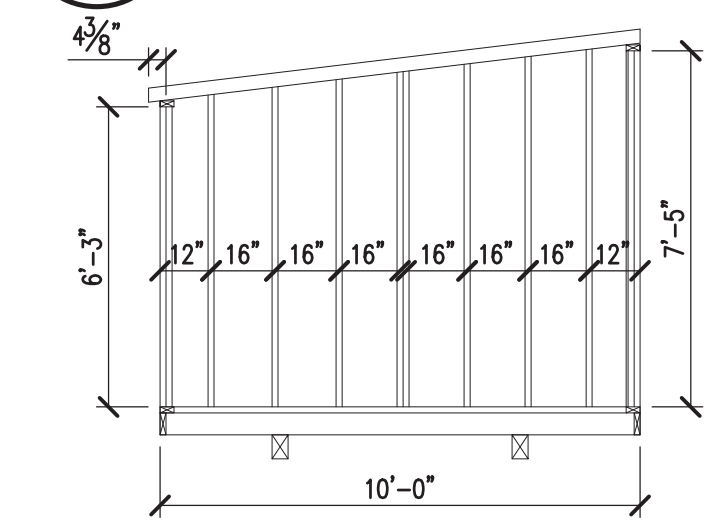
**9 ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



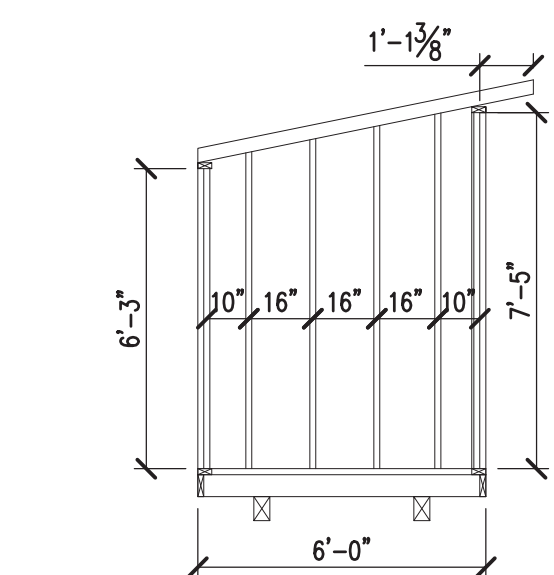
**10 SIDEWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



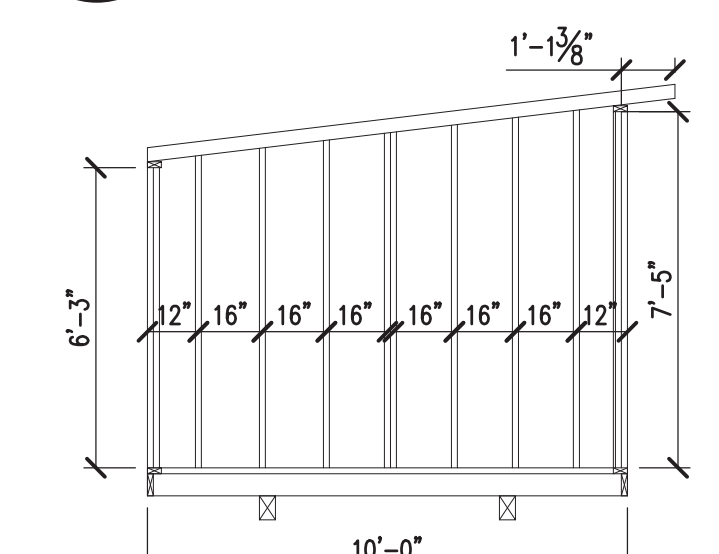
**11 6'-0" WIDE ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



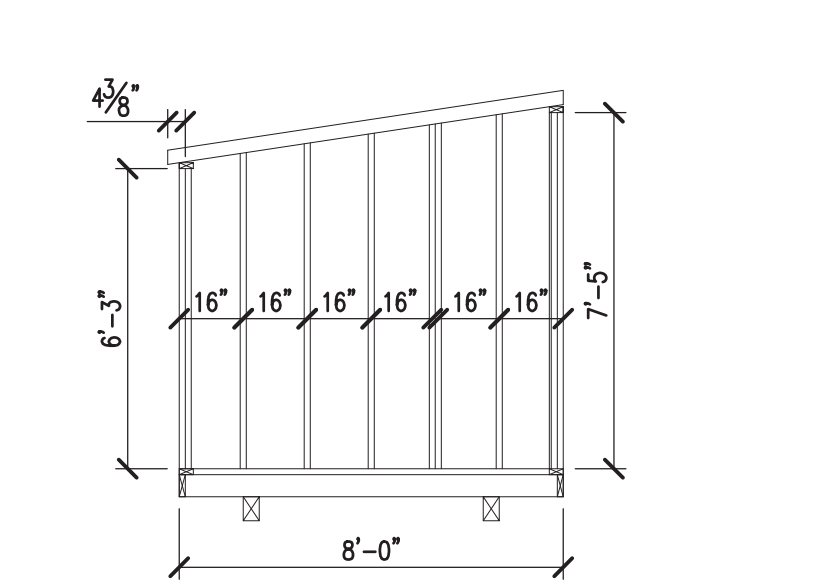
**13 10'-0" WIDE ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



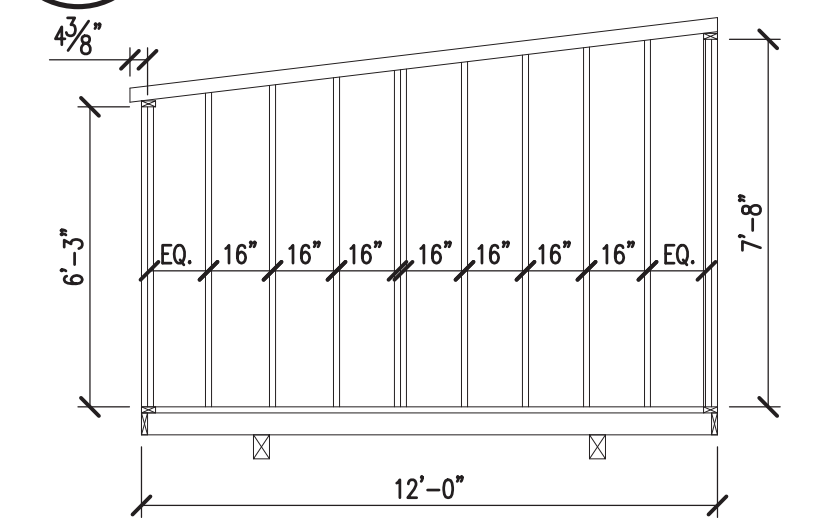
**15 6'-0" WIDE ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



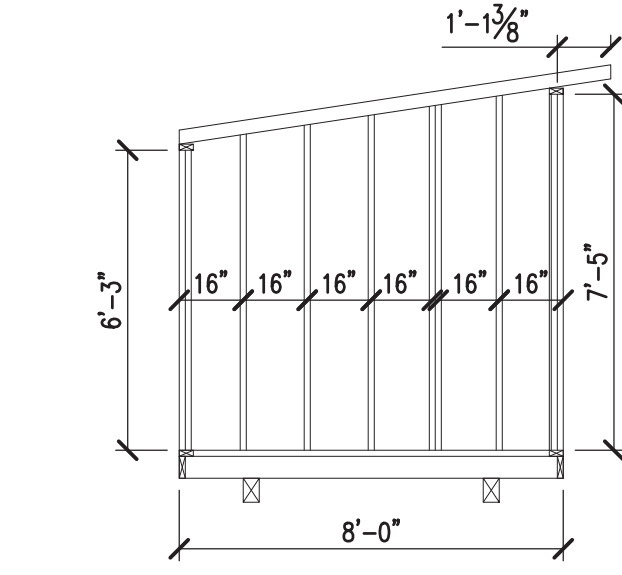
**17 10'-0" WIDE ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



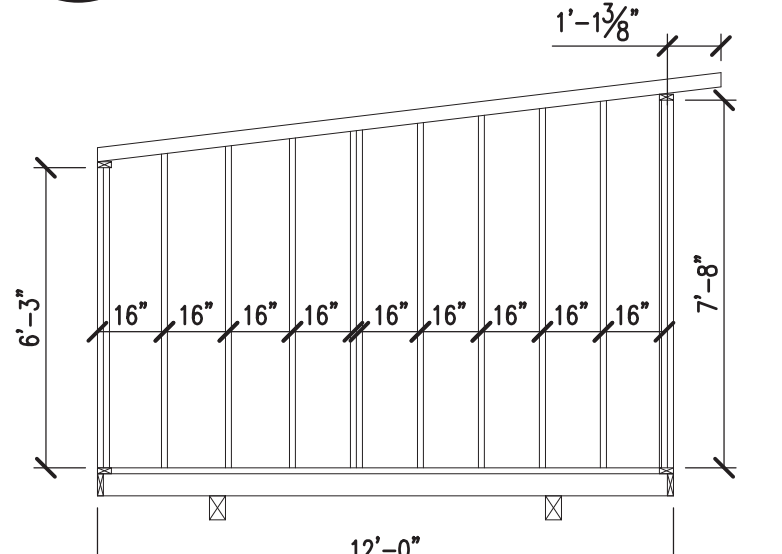
**12 8'-0" WIDE ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



**14 12'-0" WIDE ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



**16 8'-0" WIDE ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"



**18 12'-0" WIDE ENDWALL ELEVATION**  
A-2 SCALE: 1/4"=1'-0"

PROJECT: UTILITY SHED

GARDEN & COTTAGE SHEDS  
FLOOR DECK FRAMING PLANS & DETAILS

DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

ENGINEERING SERVICES PROVIDED FOR:  
PREMIER PORTABLE BUILDINGS  
317 EAST STATE LINE ROAD  
SOUTH FULTON, TN 38257  
WWW.PREMIERBUILDINGS.US

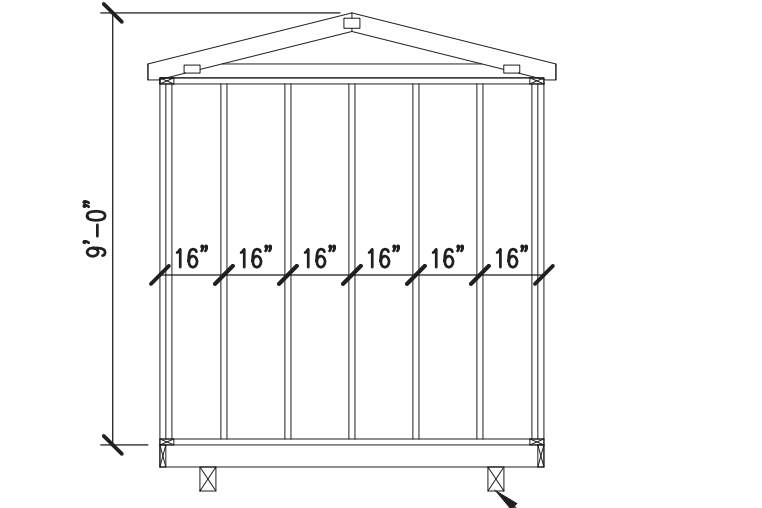
REVISION	DESCRIPTION	DATE	BY

DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG

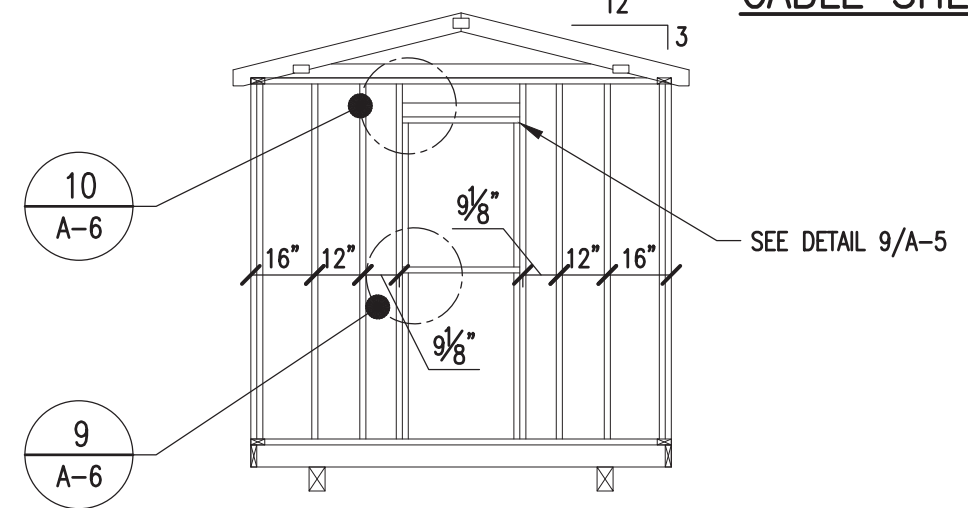
DWG NO.: **A-2**

**GABLE SHED**

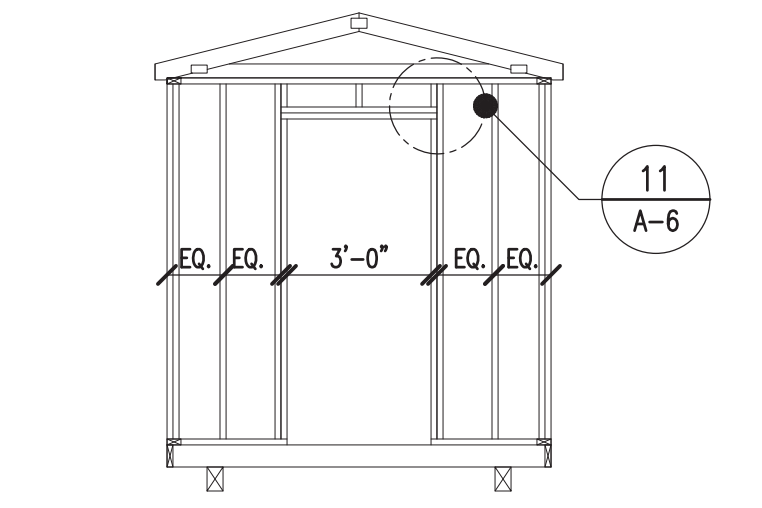
**GAMBREL SHED**



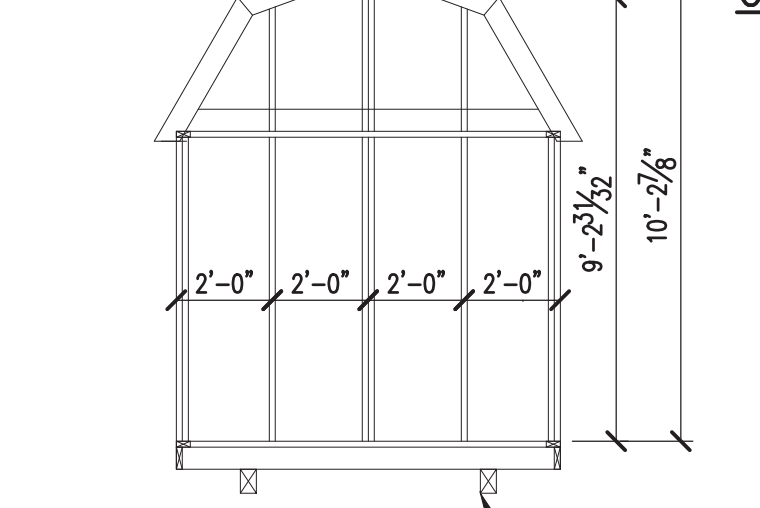
**1**  
8'-0" WIDE  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



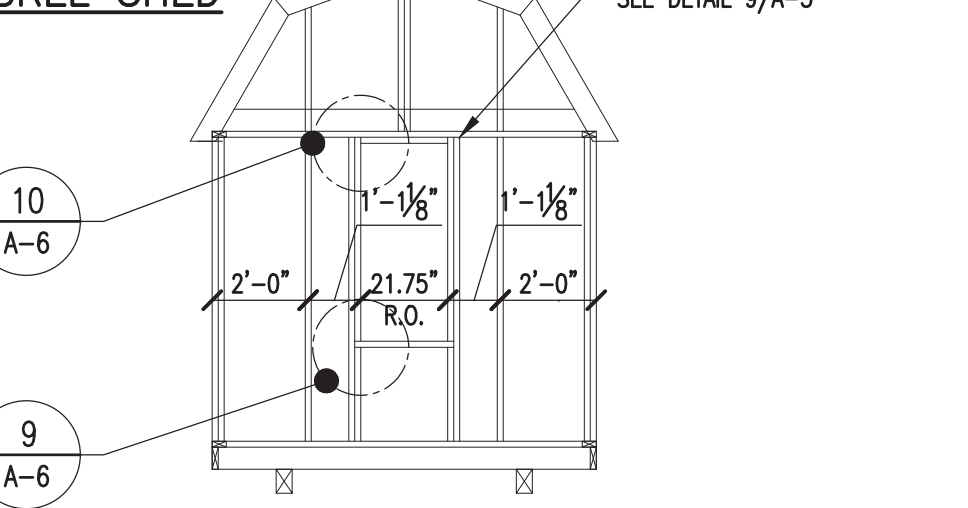
**2**  
8'-0" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



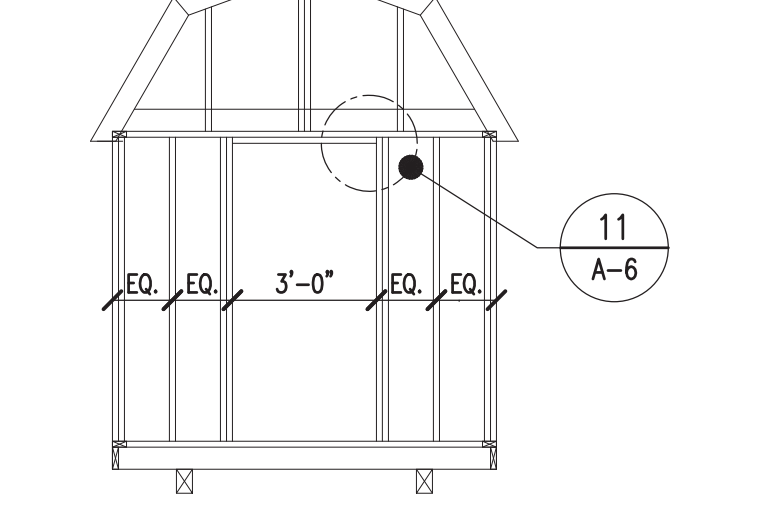
**3**  
8'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



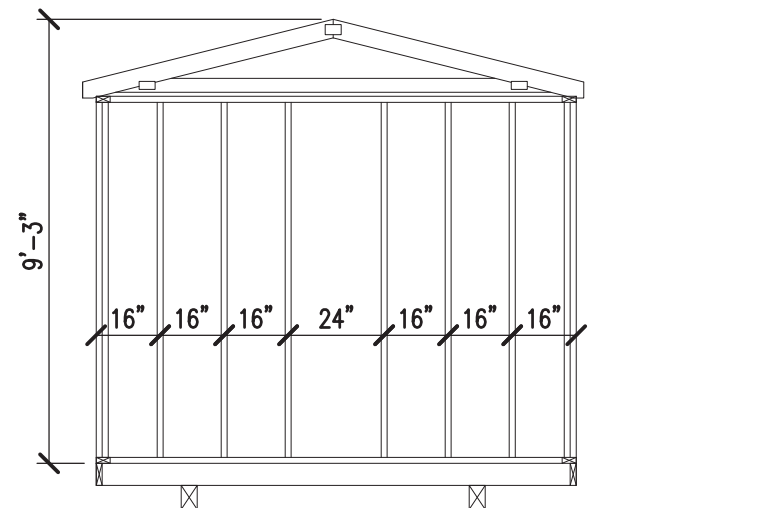
**4**  
8'-0" WIDE  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



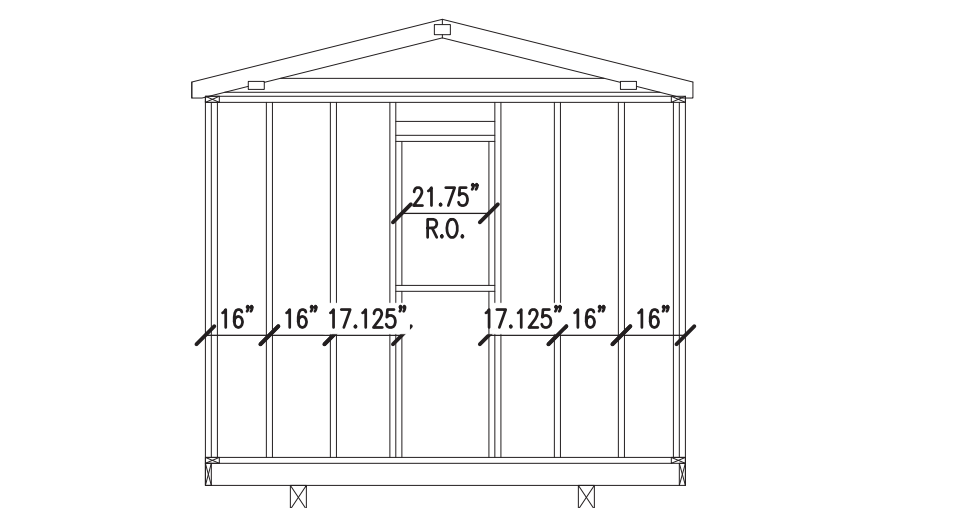
**5**  
8'-0" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



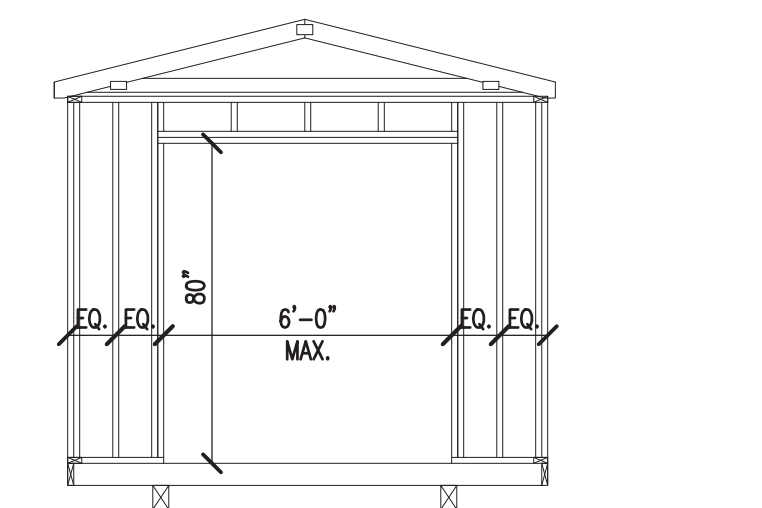
**6**  
8'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



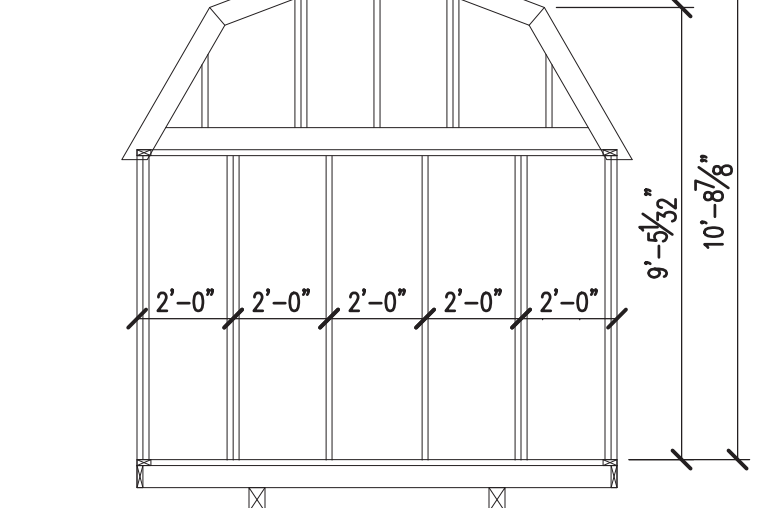
**7**  
10'-0" WIDE  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



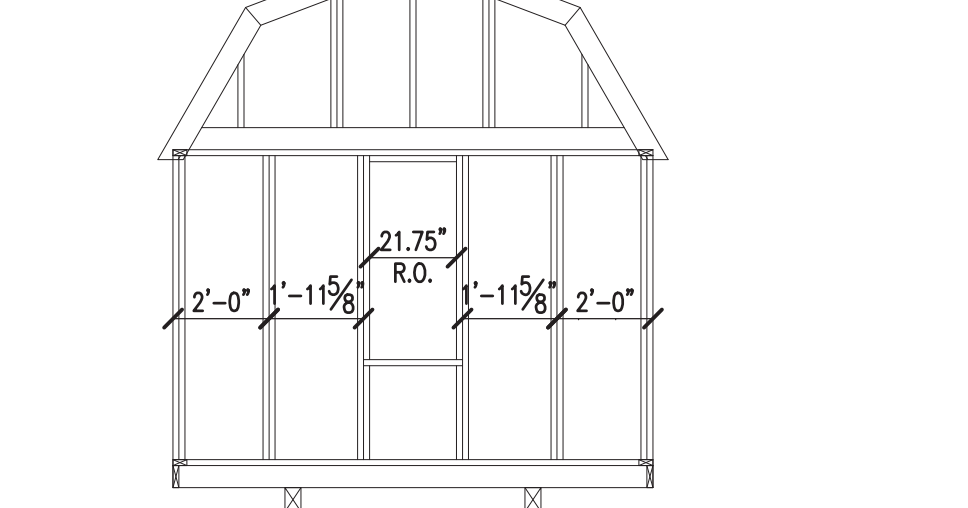
**8**  
10'-0" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



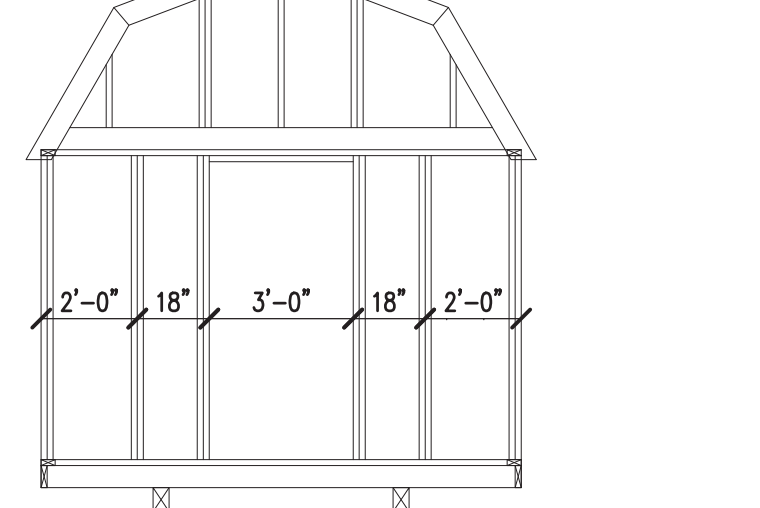
**9**  
10'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



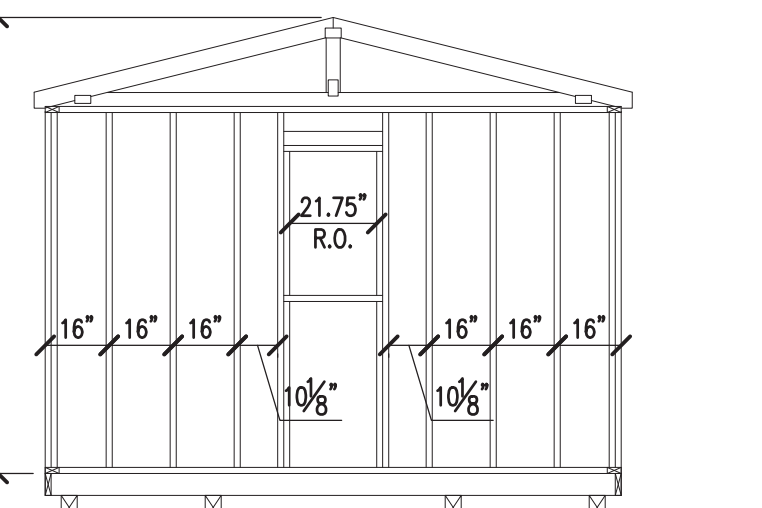
**10**  
10'-0" WIDE  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



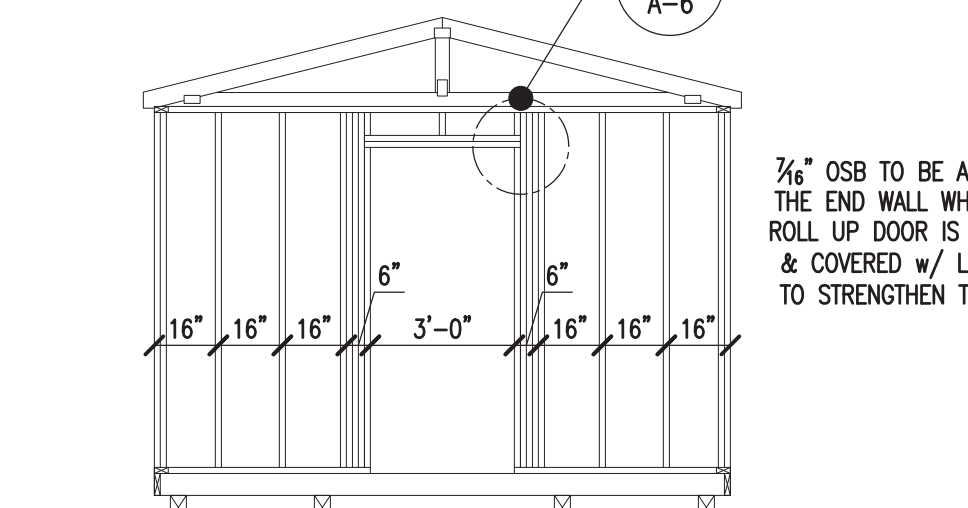
**11**  
10'-0" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



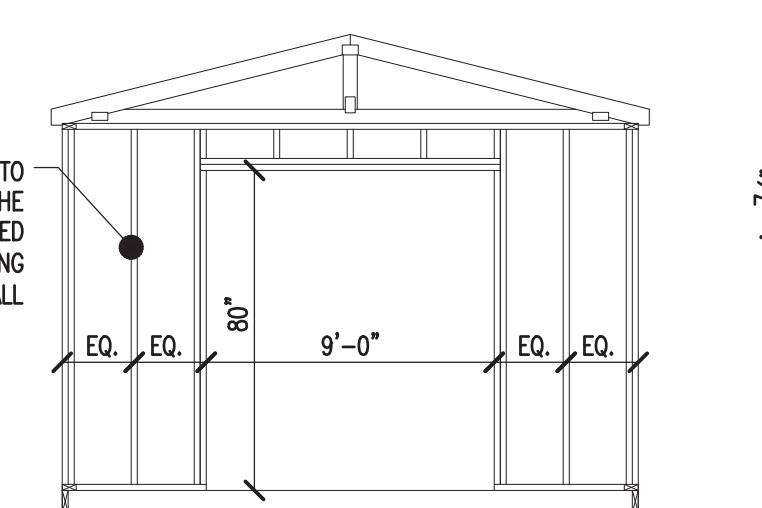
**12**  
10'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



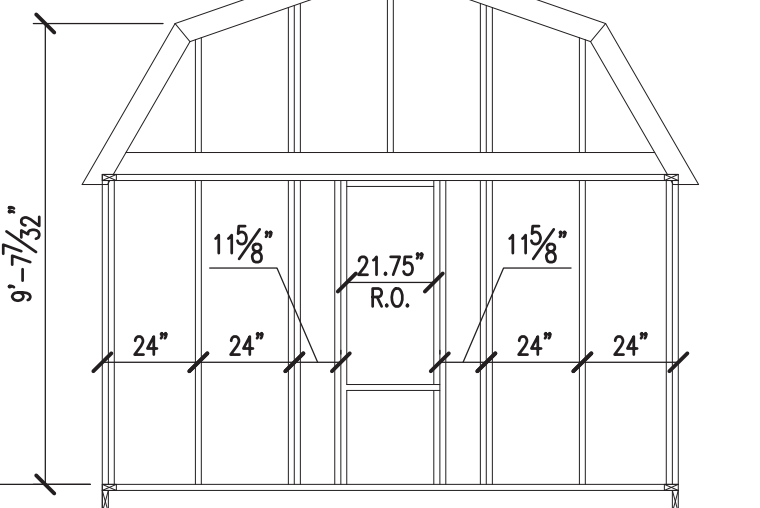
**13**  
11'-2" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



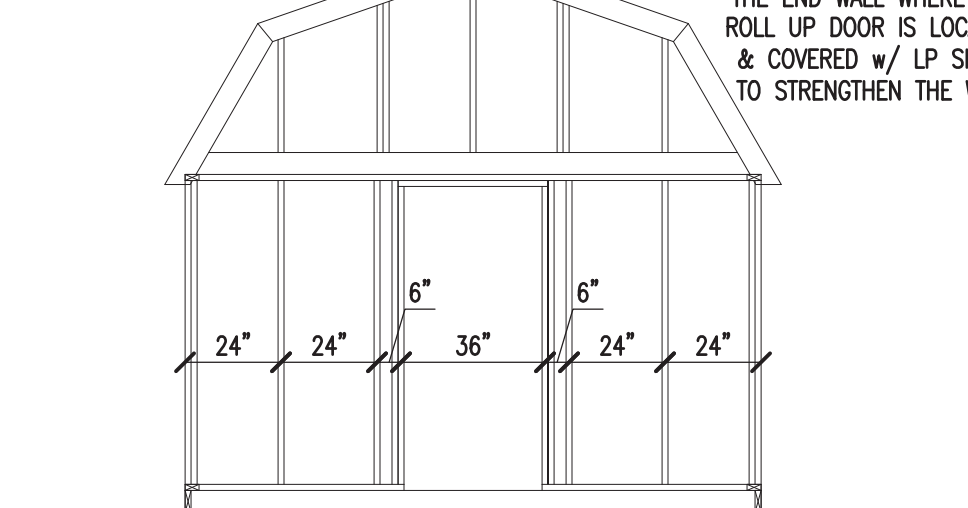
**14**  
11'-2" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



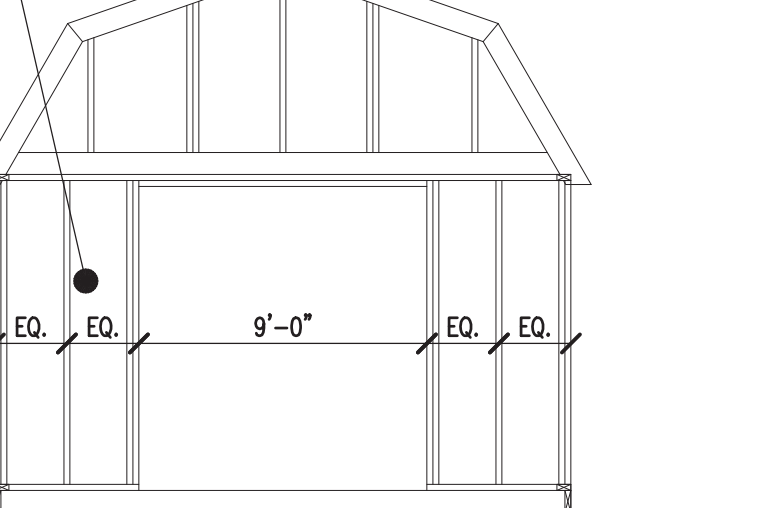
**15**  
11'-2" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



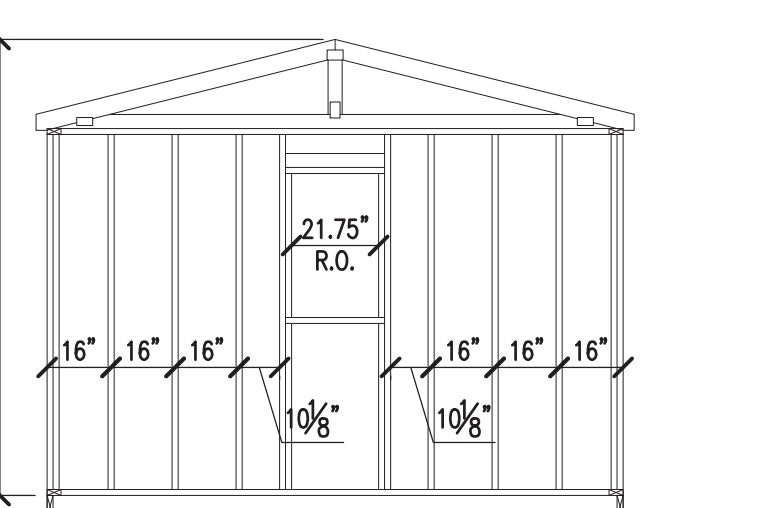
**16**  
11'-2" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



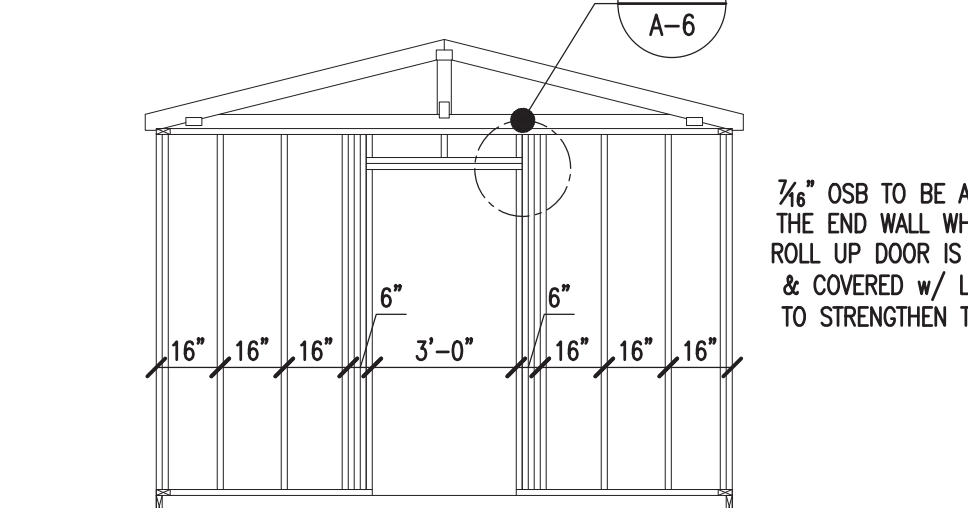
**17**  
11'-2" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



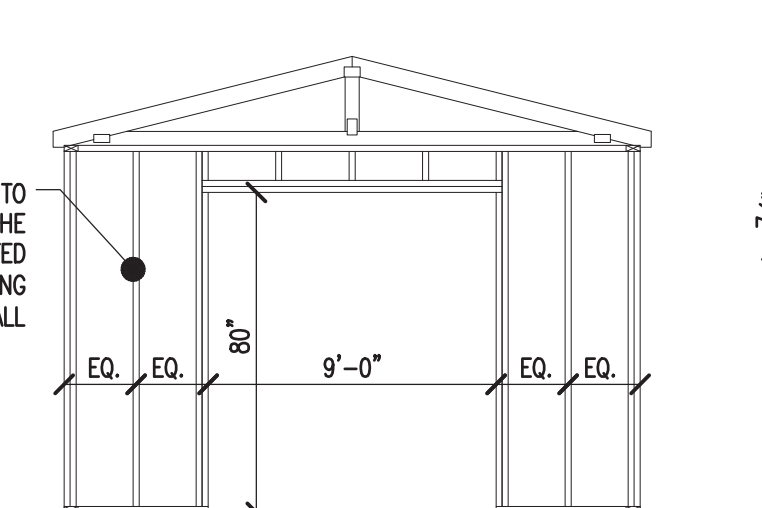
**18**  
11'-2" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



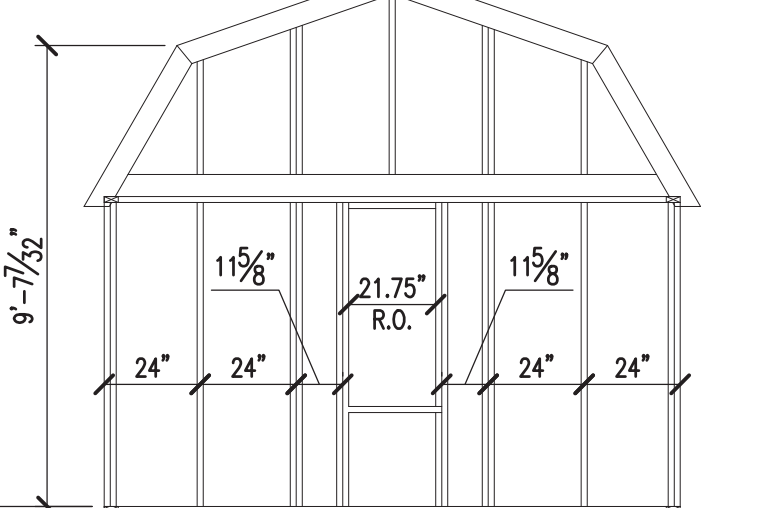
**19**  
12'-0" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



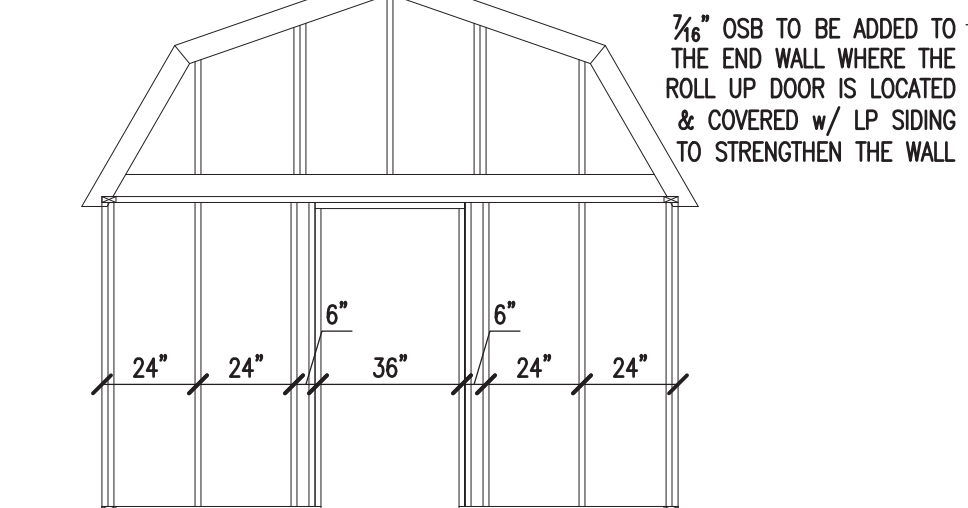
**20**  
12'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



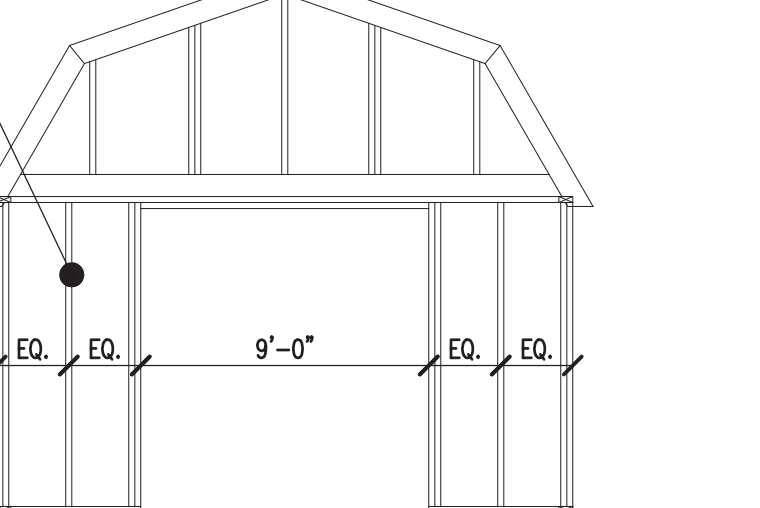
**21**  
12'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



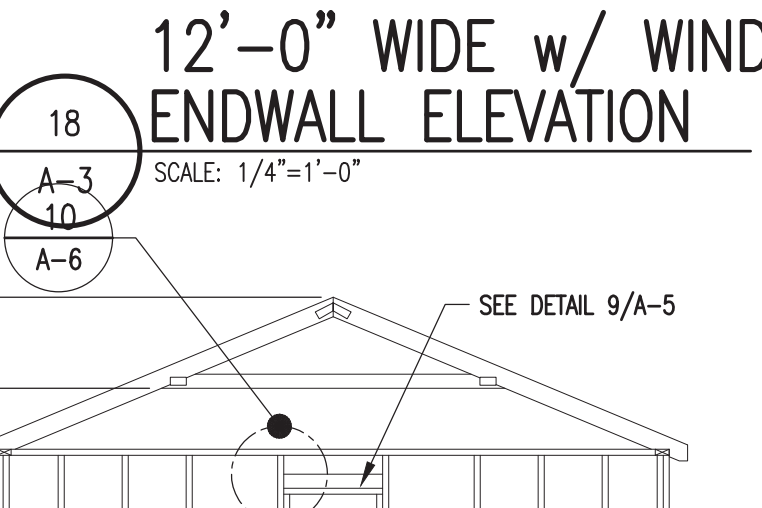
**22**  
12'-0" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



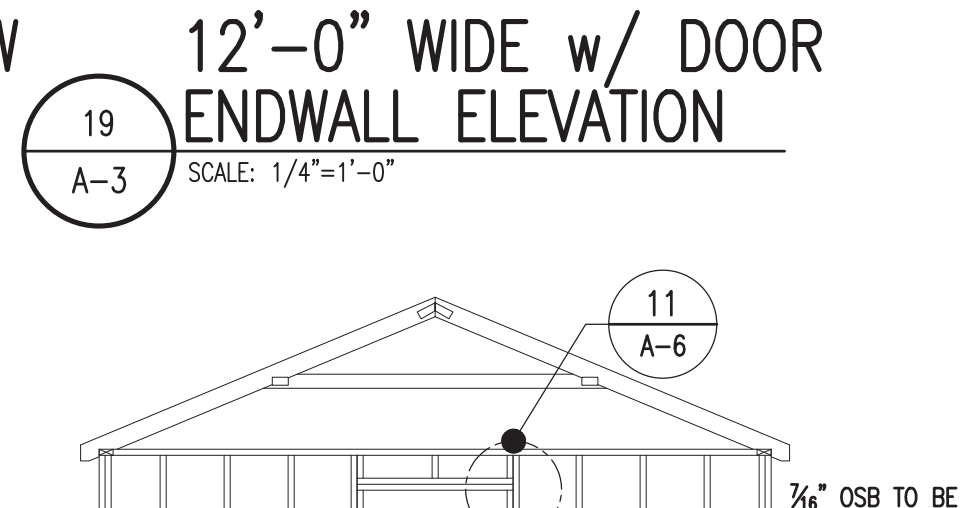
**23**  
12'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



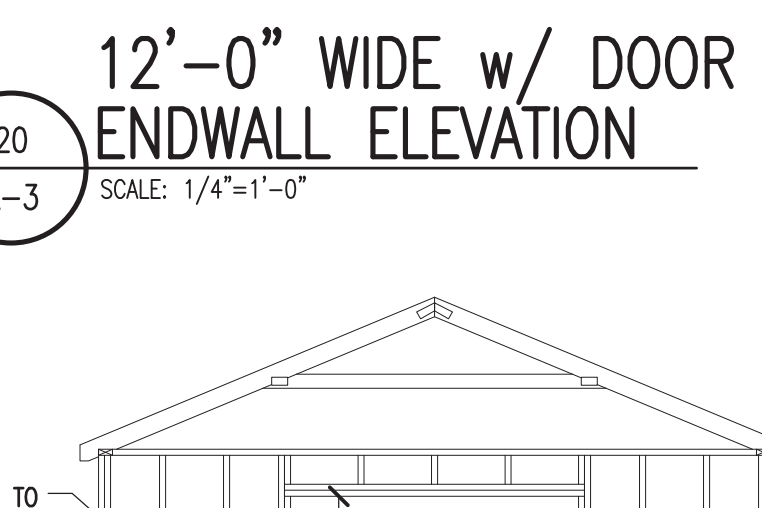
**24**  
12'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



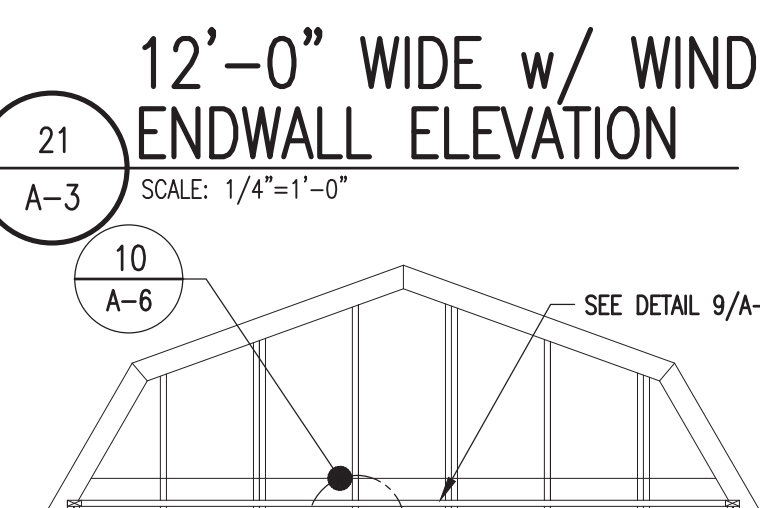
**25**  
14'-0" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



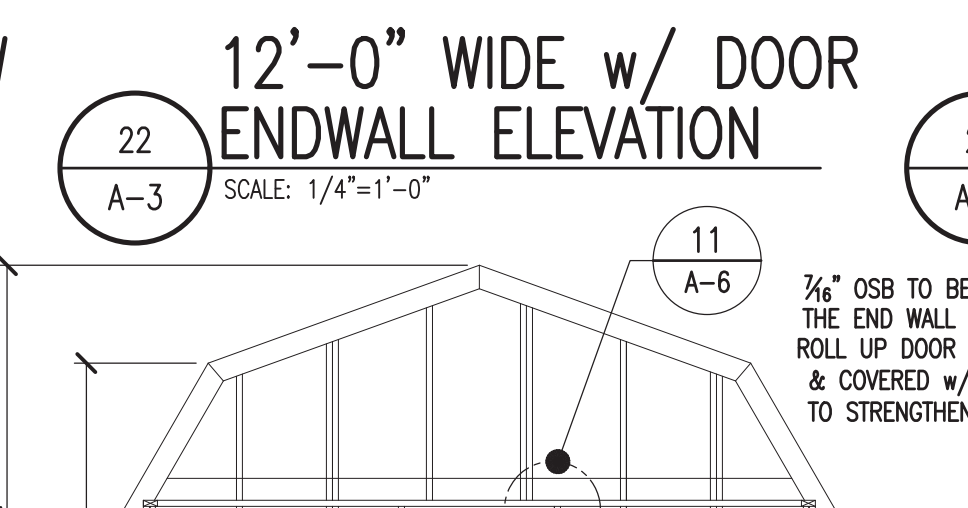
**26**  
14'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



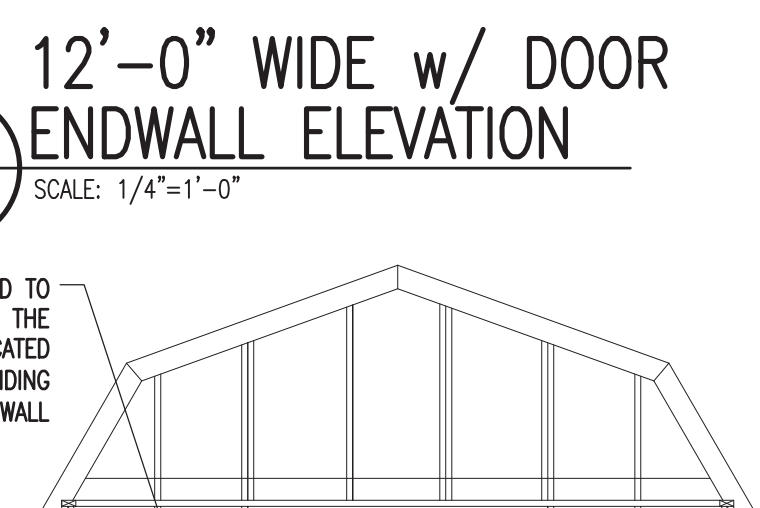
**27**  
14'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



**28**  
14'-0" WIDE w/ WINDOW  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



**29**  
14'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"



**30**  
14'-0" WIDE w/ DOOR  
ENDWALL ELEVATION  
SCALE: 1/4"=1'-0"

PROJECT: UTILITY SHED

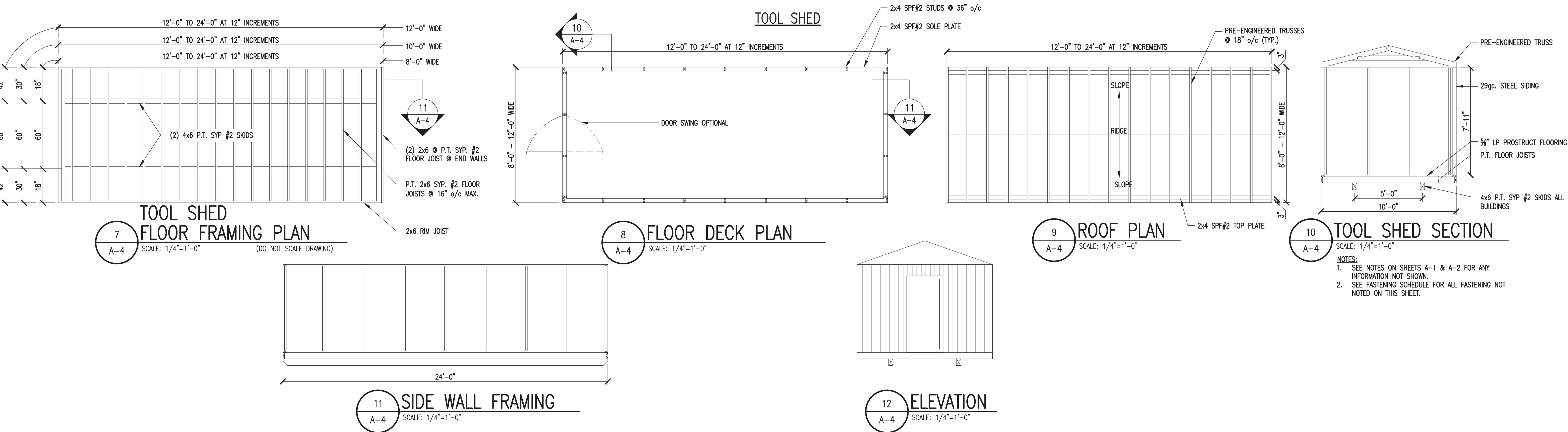
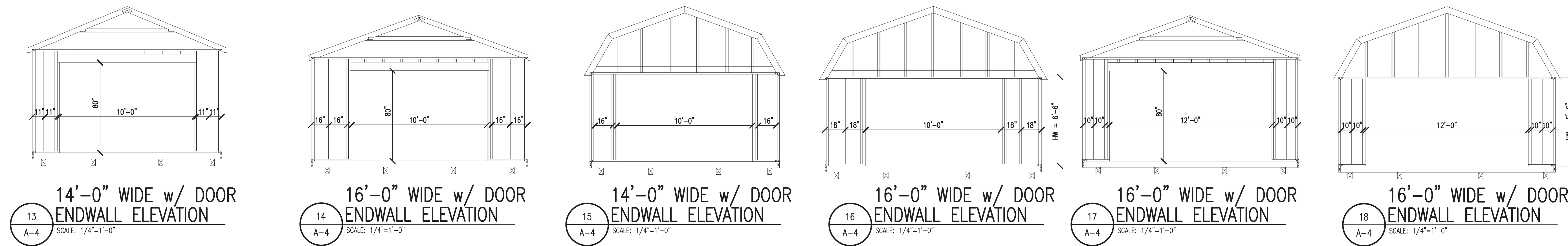
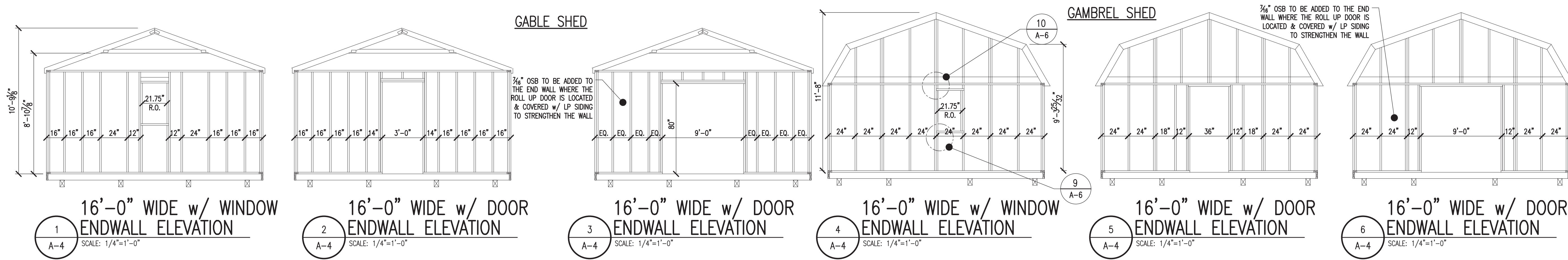
SECTIONS

DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

ENGINEERING SERVICES PROVIDED FOR:  
PREMIER PORTABLE BUILDINGS  
317 EAST STATE LINE ROAD  
SOUTH FULTON, TN 38257  
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
▲			
▲			
▲			
▲			

DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG  
DWG NO.: A-3



NOTES:  
1. SEE NOTES ON SHEETS A-1 & A-2 FOR ANY INFORMATION NOT SHOWN.  
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.

PROJECT: UTILITY SHED

SECTION CUTS  
CRAFTSMAN & TOOL SHED

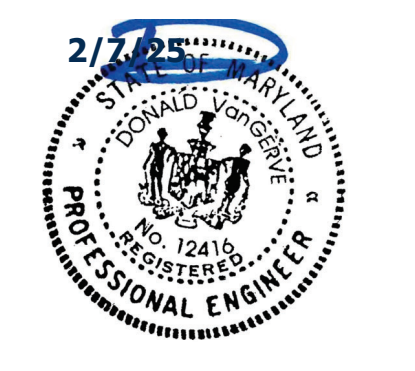
DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

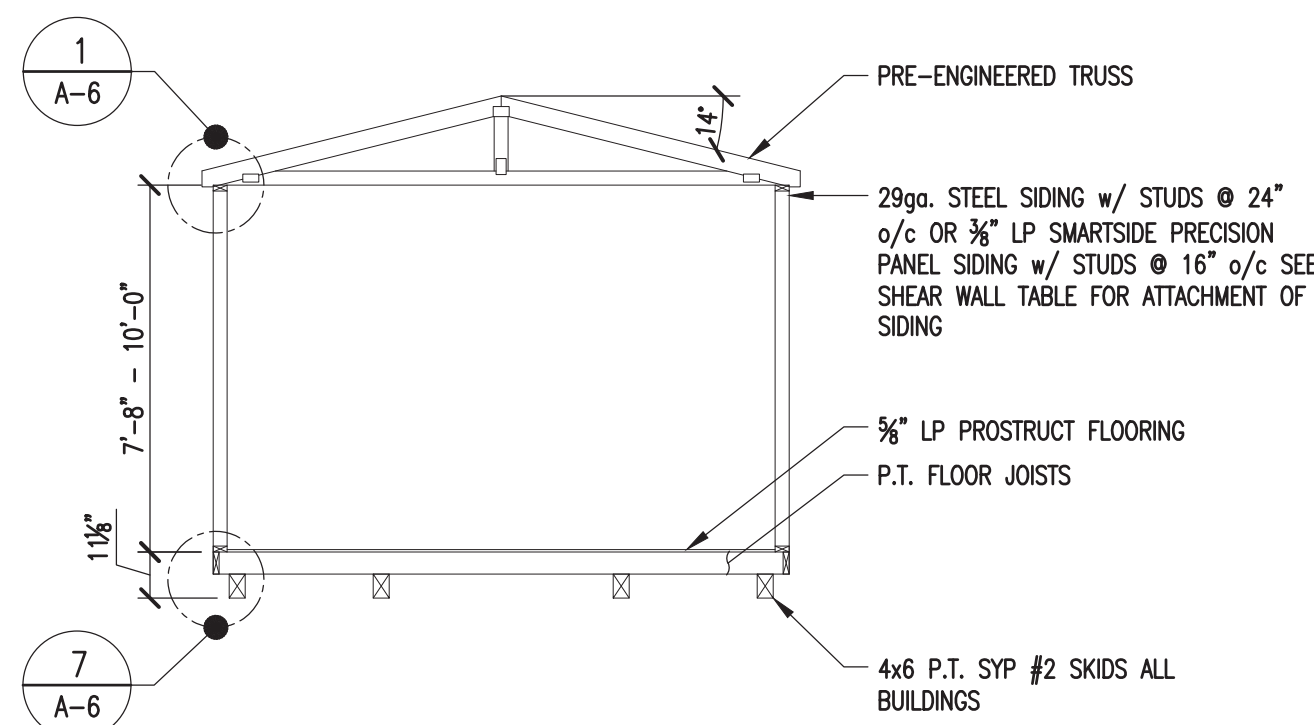
**ALTERNATE DESIGN SOLUTIONS**  
STRUCTURAL ENGINEERING DESIGN & CONSTRUCTION SERVICES  
PHONE: 215.355.4684  
WWW.ALTERNATEDESIGNSOLUTIONS.COM

ENGINEERING SERVICES PROVIDED FOR:  
**PREMIER PORTABLE BUILDINGS**  
317 EAST STATE LINE ROAD  
SOUTH FULTON, TN 38257  
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
▲			
▲			
▲			
▲			

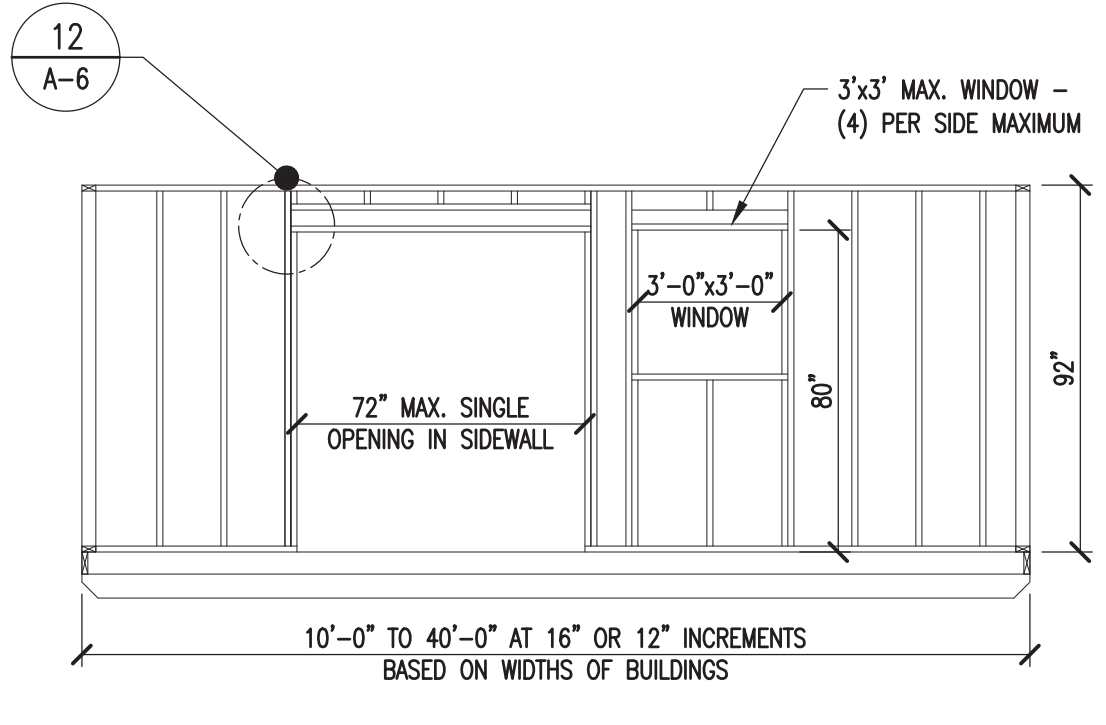
DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG  
DWG NO.: **A-4**





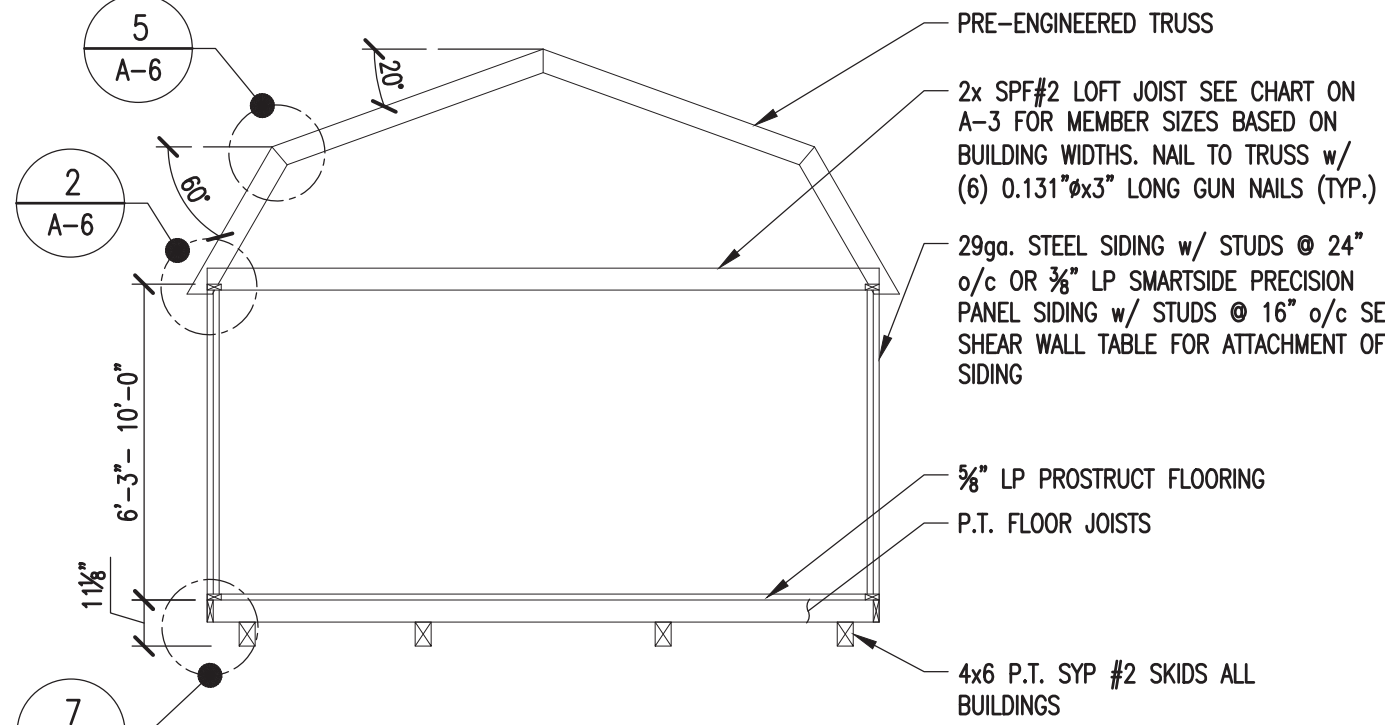
**1 GABLE SECTION**  
SCALE: 1/4"=1'-0"

**NOTES:**  
1. SEE NOTES ON SHEETS A-1 & C-2 FOR ANY INFORMATION NOT SHOWN.  
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



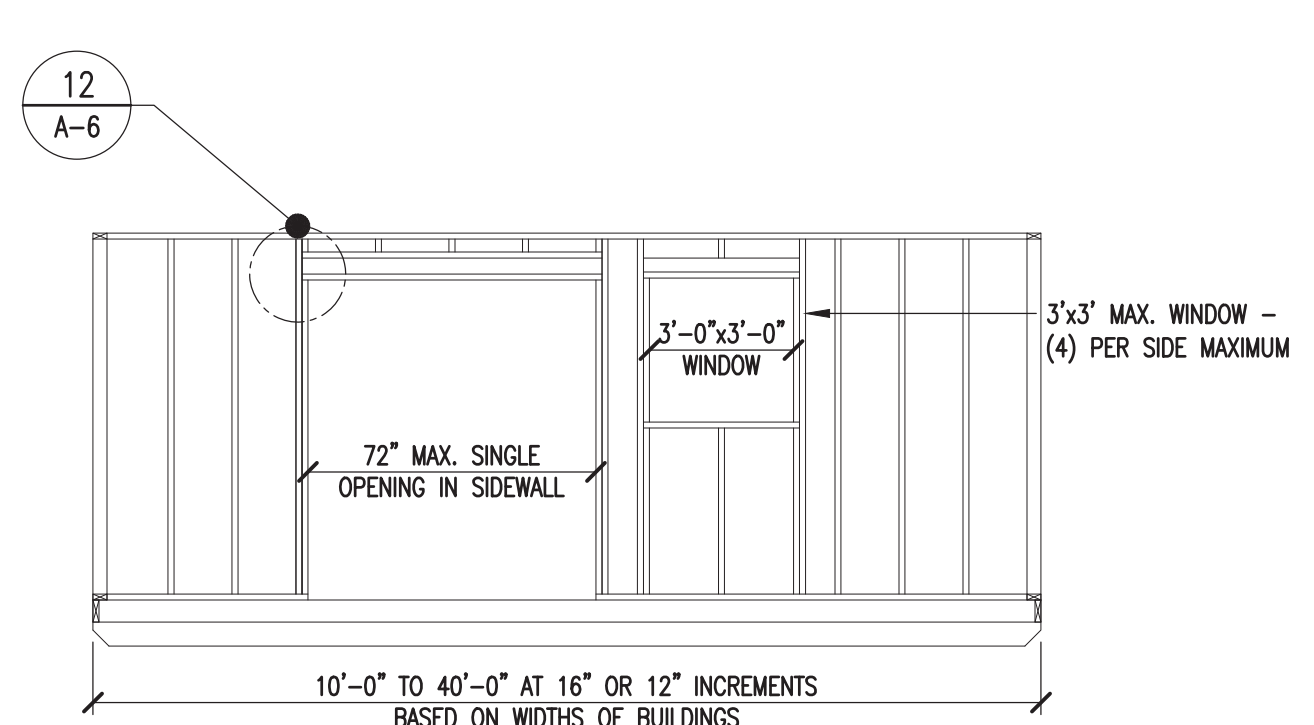
**2 SIDEWALL FRAMING**  
SCALE: 1/4"=1'-0"

**NOTES:**  
MAX. OPENING MAY BE INCREASED TO 9'-0" WITH HEADER PROVIDED THE BUILDING LENGTH IS OVER 16' IN LENGTH AND THE CRITERIA IN NOTE NUMBER 3 OF THE SHEARWALL CHART IS MET.



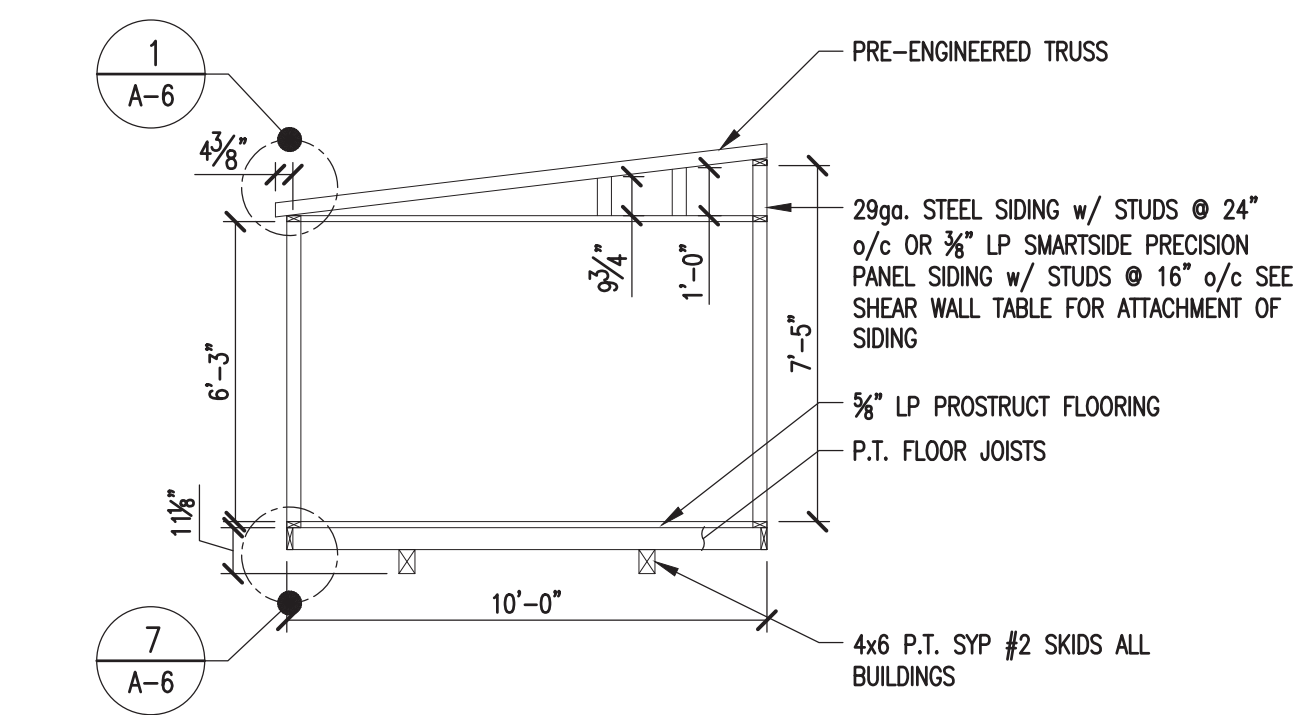
**3 GAMBREL SECTION**  
SCALE: 1/4"=1'-0"

**NOTES:**  
1. SEE NOTES ON SHEETS A-1 & C-2 FOR ANY INFORMATION NOT SHOWN.  
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



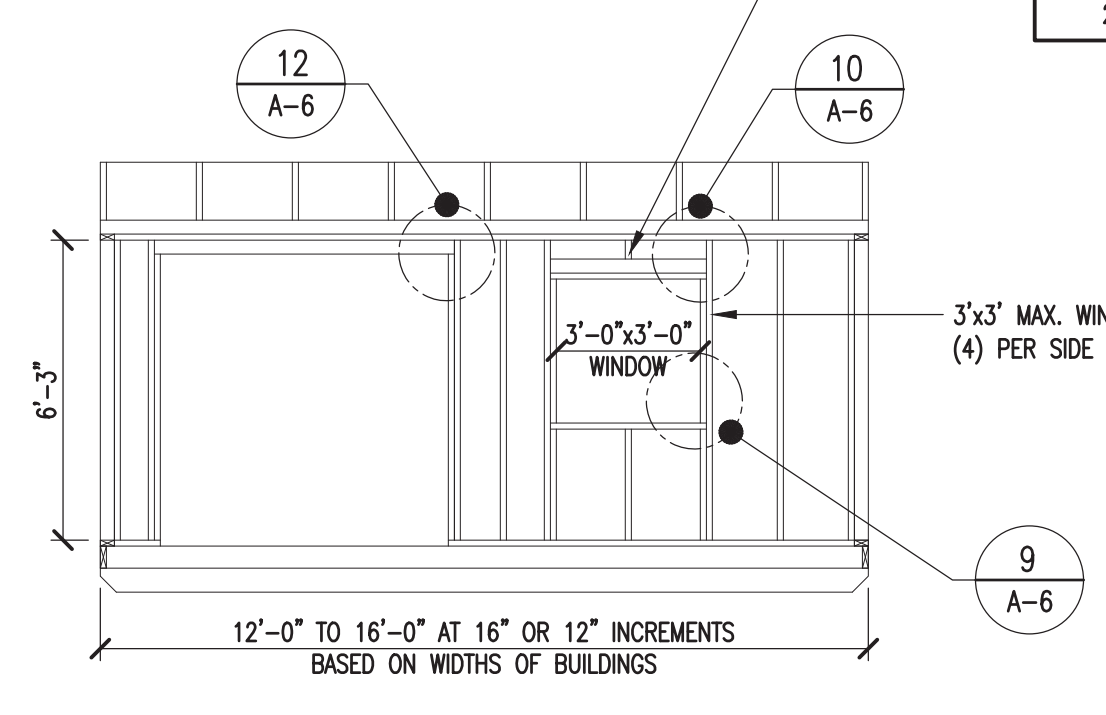
**4 SIDEWALL FRAMING**  
SCALE: 1/4"=1'-0"

**NOTES:**  
MAX. OPENING MAY BE INCREASED TO 9'-0" WITH HEADER PROVIDED THE BUILDING LENGTH IS OVER 16' IN LENGTH AND THE CRITERIA IN NOTE NUMBER 3 OF THE SHEARWALL CHART IS MET.



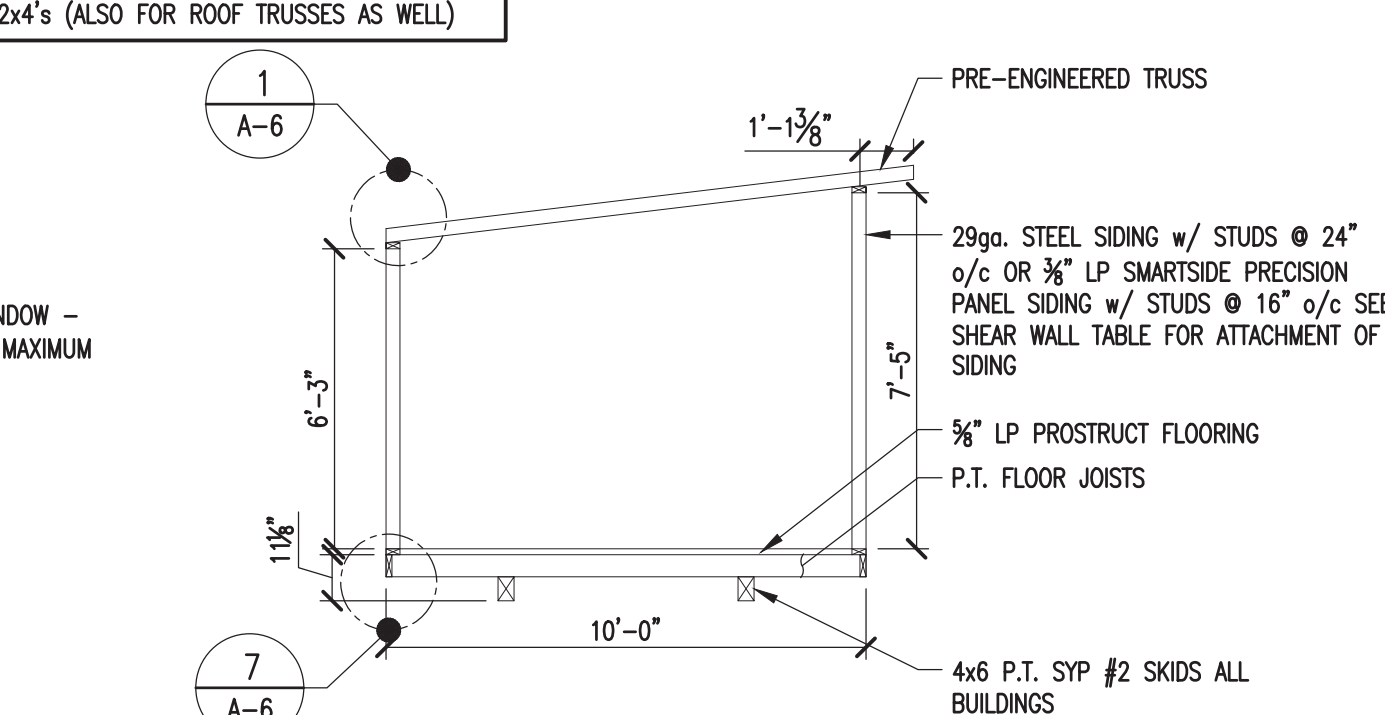
**5 GARDEN SHED SECTION**  
SCALE: 1/4"=1'-0"

**NOTES:**  
1. SEE NOTES ON SHEETS A-1 & A-2 FOR ANY INFORMATION NOT SHOWN.  
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



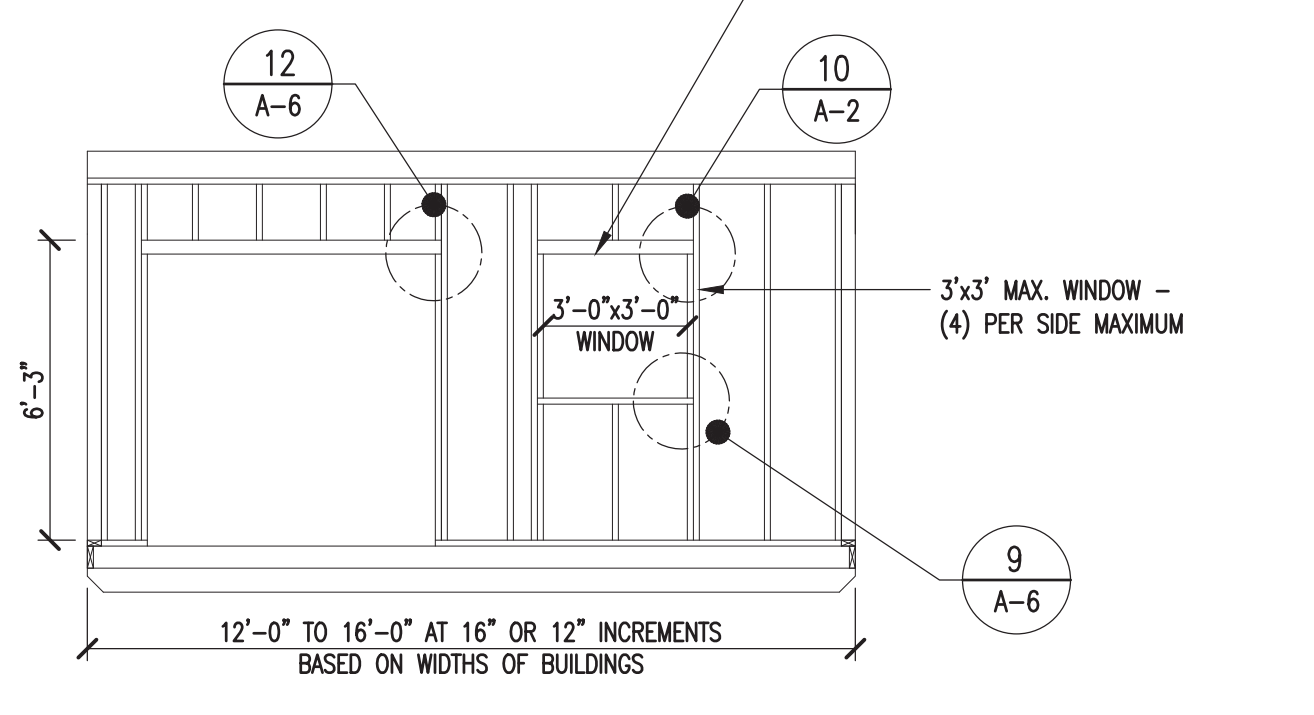
**6 SIDEWALL FRAMING**  
SCALE: 1/4"=1'-0"

**NOTES:**  
MAX. OPENING MAY BE INCREASED TO 9'-0" WITH HEADER 8/A-11 PROVIDED THE BUILDING LENGTH IS OVER 16' IN LENGTH AND THE CRITERIA IN NOTE NUMBER 3 OF THE SHEARWALL CHART IS MET.

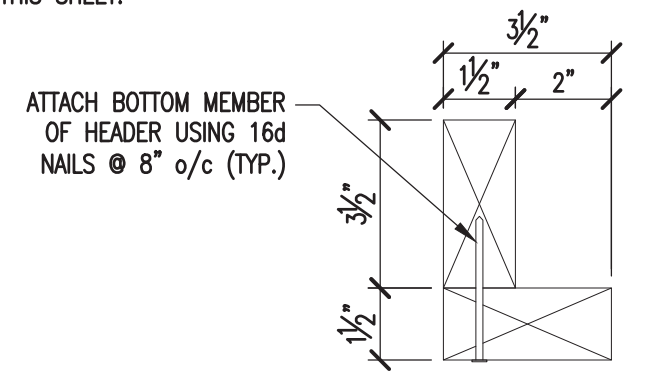


**7 COTTAGE SHED SECTION**  
SCALE: 1/4"=1'-0"

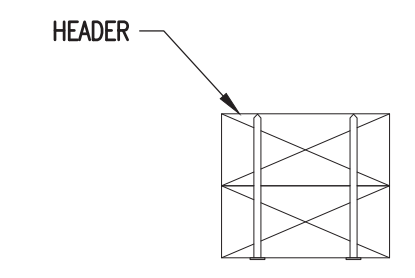
**NOTES:**  
1. SEE NOTES ON SHEETS A-1 & A-2 FOR ANY INFORMATION NOT SHOWN.  
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



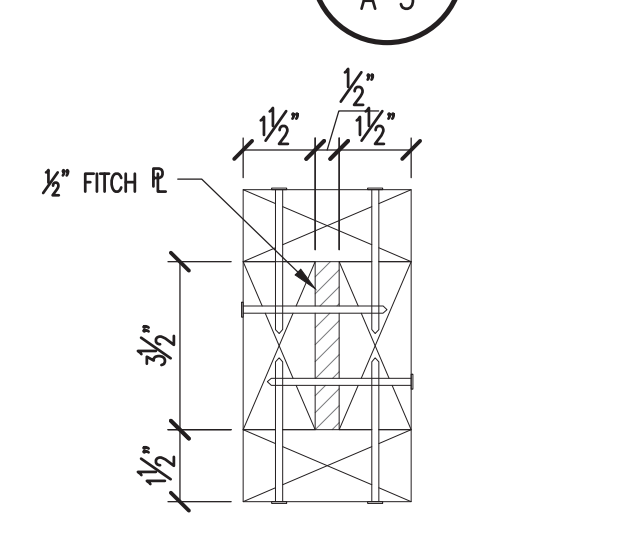
**8 SIDEWALL FRAMING**  
SCALE: 1/4"=1'-0"



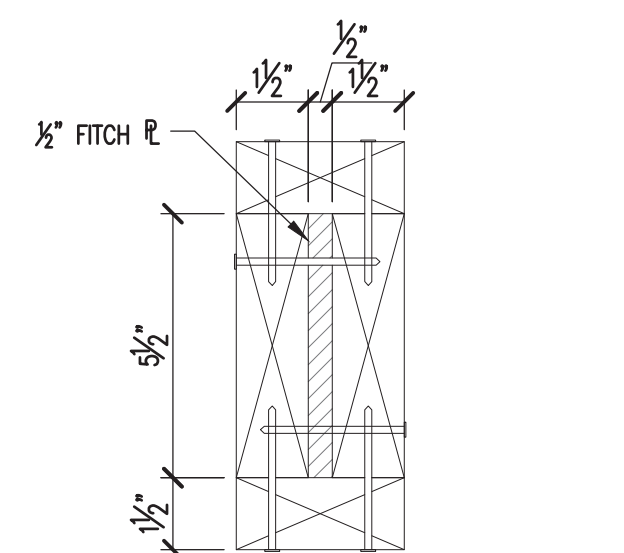
**9 WINDOW HEADER DETAIL**  
SCALE: 3"=1'-0"



**10 DOOR HEADER DETAIL**  
SCALE: 3"=1'-0"



**11 DOOR HEADER DETAIL**  
SCALE: 3"=1'-0"

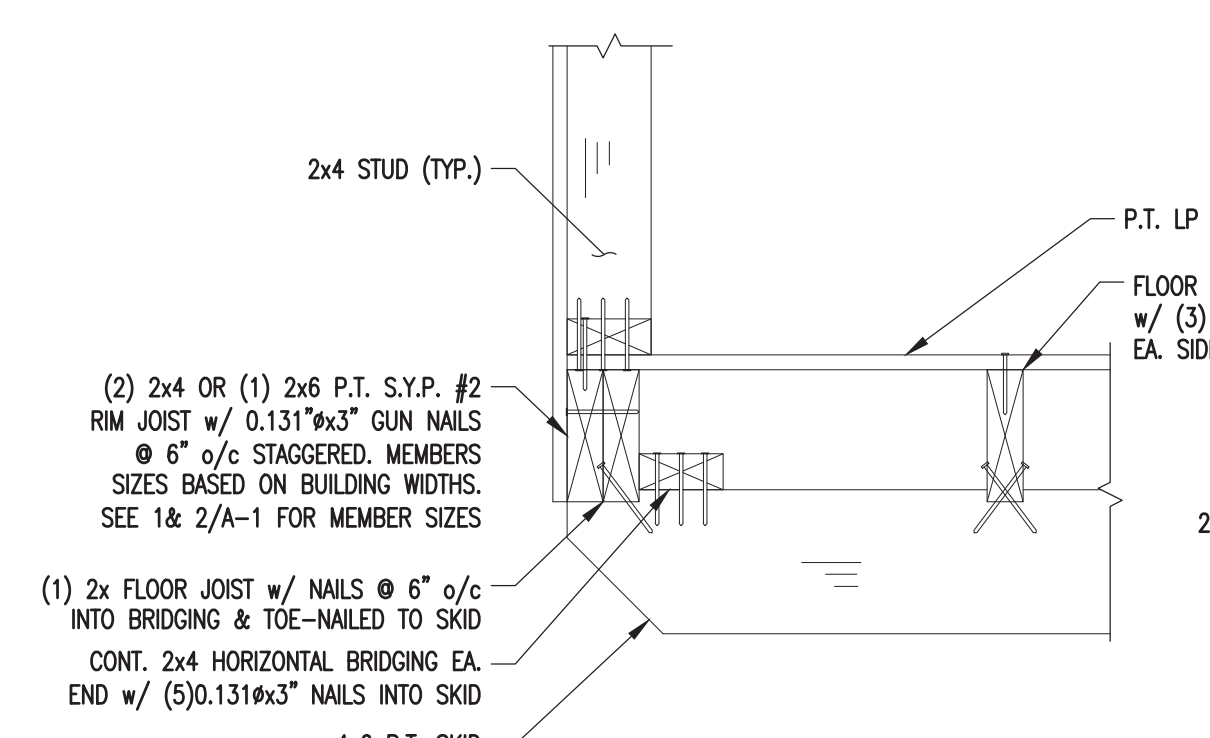


**12 DOOR HEADER DETAIL**  
SCALE: 3"=1'-0"

**NOTE:**  
1. SEE NOTES ON SHEETS A-1 & A-2 FOR ANY INFORMATION NOT SHOWN HERE.  
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.

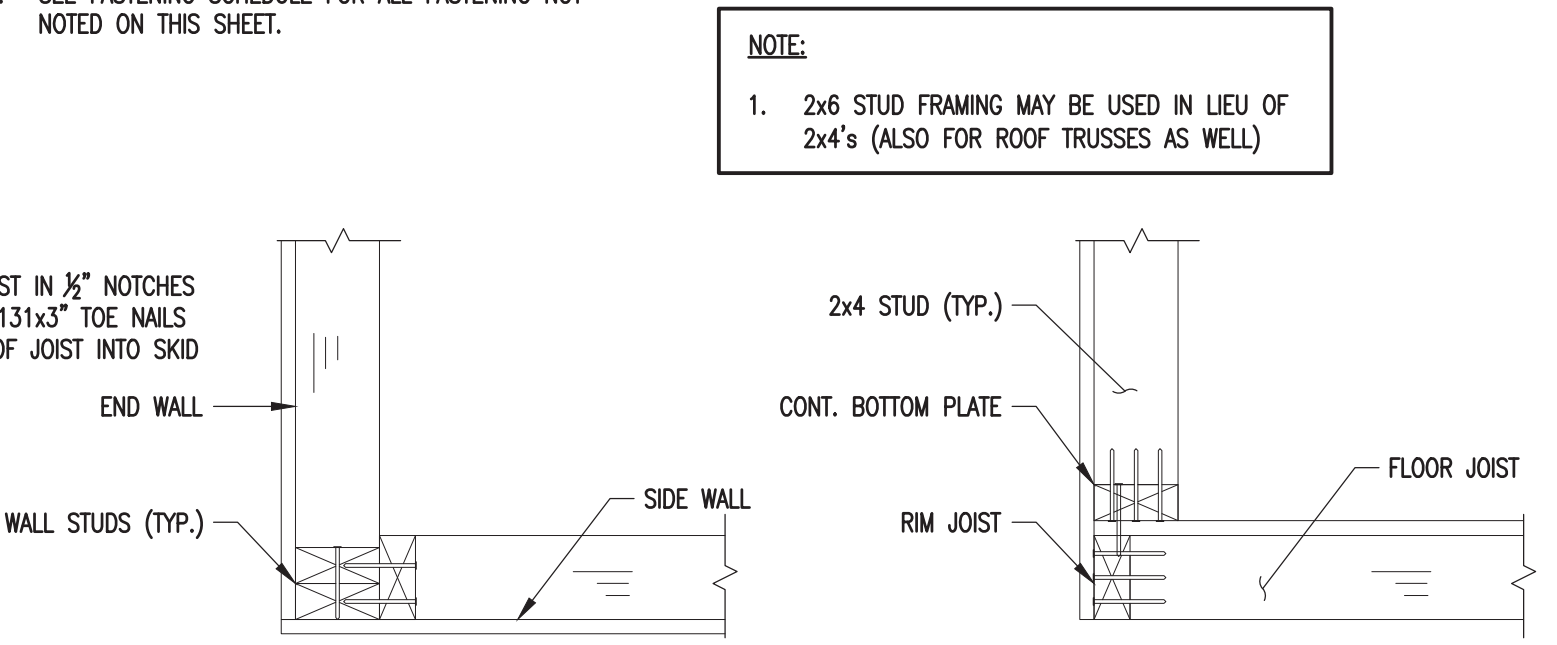
**NOTE:**  
1. 2x6 STUD FRAMING MAY BE USED IN LIEU OF 2x4's (ALSO FOR ROOF TRUSSES AS WELL)

**NOTE:**  
1. 2x6 STUD FRAMING MAY BE USED IN LIEU OF 2x4's (ALSO FOR ROOF TRUSSES AS WELL)

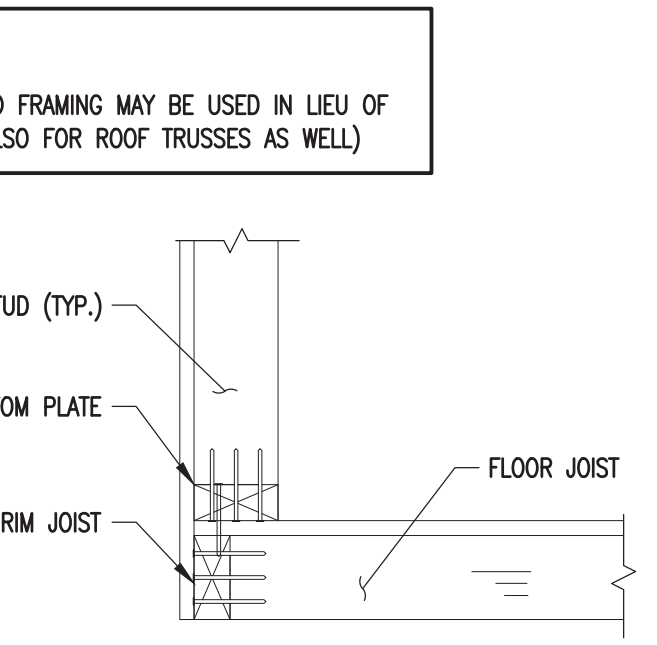


**13 SKID TO JOIST DETAIL**  
SCALE: 1-1/2"=1'-0"

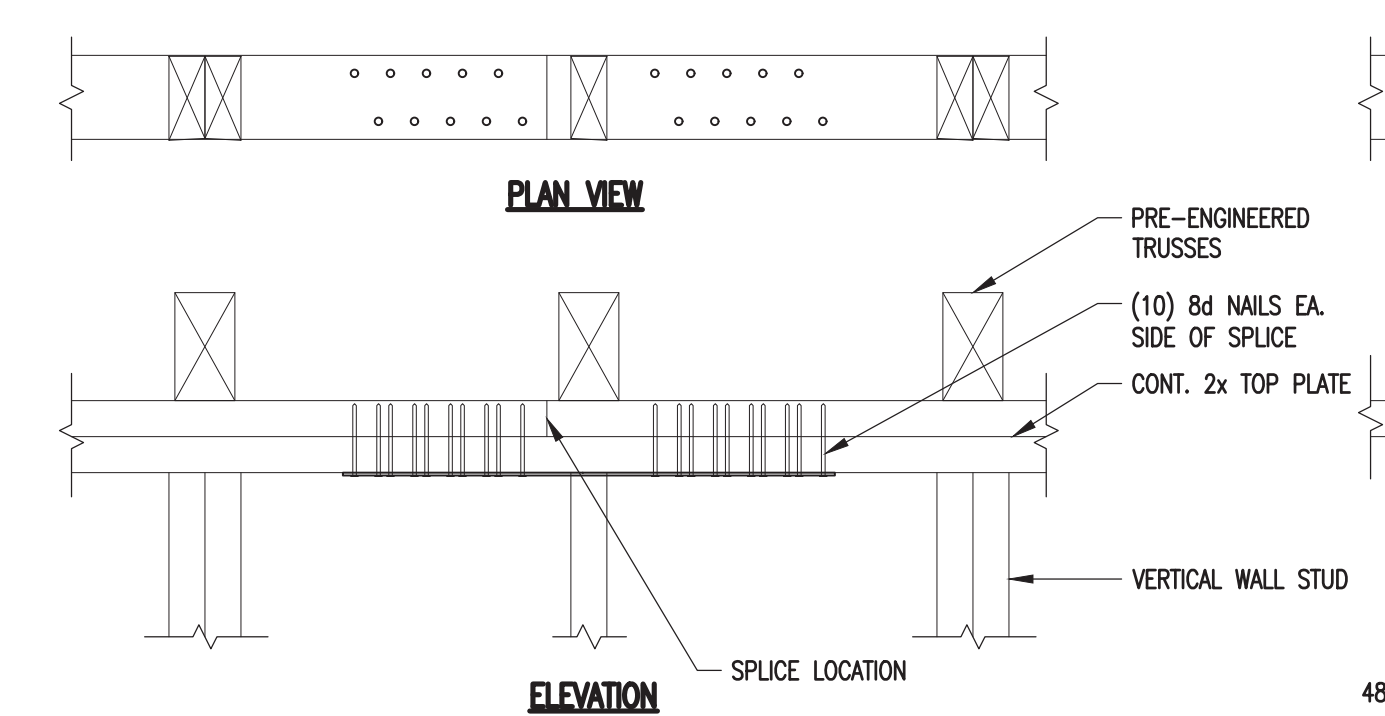
**NOTES:**  
1. SEE NOTES ON SHEETS A-1 & C-2 FOR ANY INFORMATION NOT SHOWN HERE.  
2. SEE FASTENING SCHEDULE FOR ALL FASTENING NOT NOTED ON THIS SHEET.



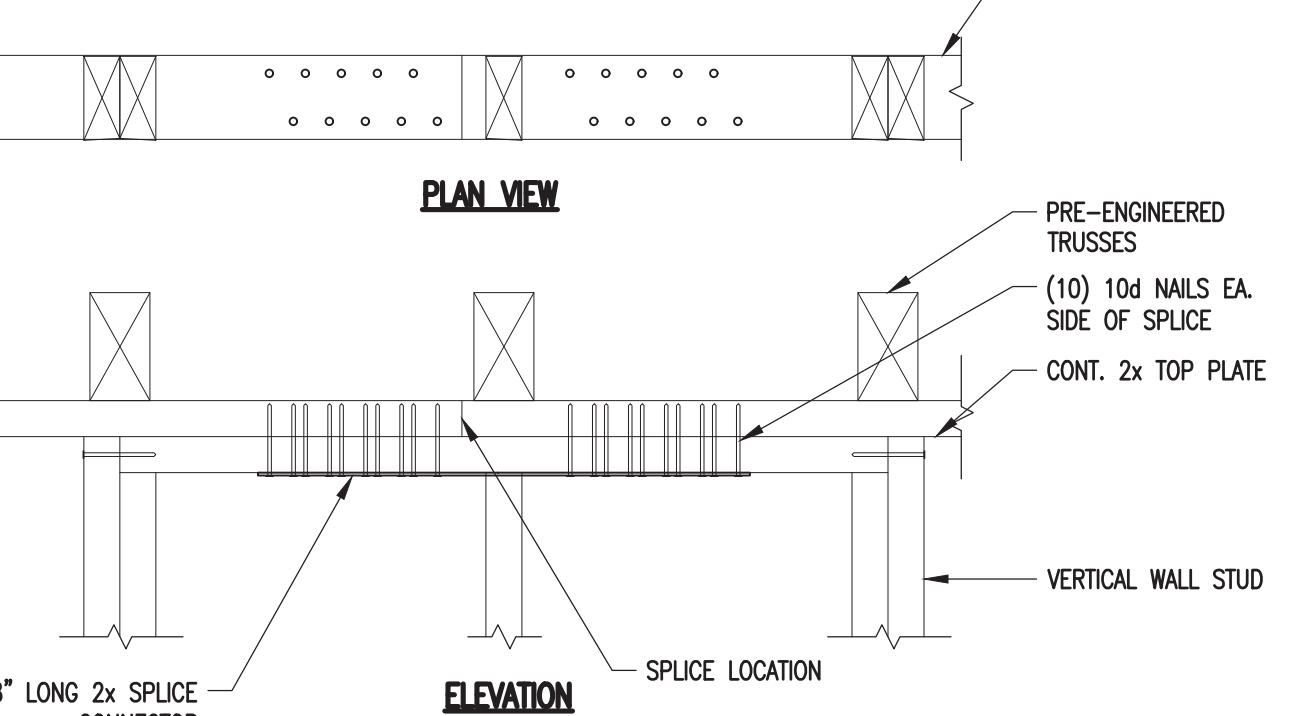
**14 CORNER CONNECTION DETAIL**  
SCALE: 1-1/2"=1'-0"



**15 WALL TO RIM JOIST**  
SCALE: 1-1/2"=1'-0"



**16 TOP PLATE SPLICE DETAIL**  
SCALE: 1-1/2"=1'-0"



**17 SPLICE CONNECTION DETAIL**  
SCALE: 1-1/2"=1'-0"

PROJECT: UTILITY SHED

TYPICAL DETAILS

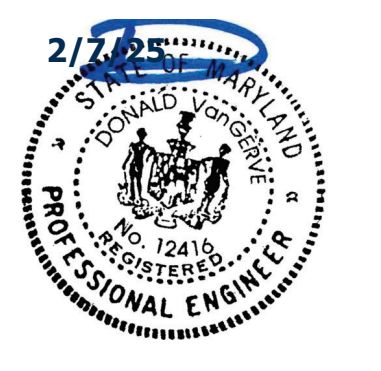
DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

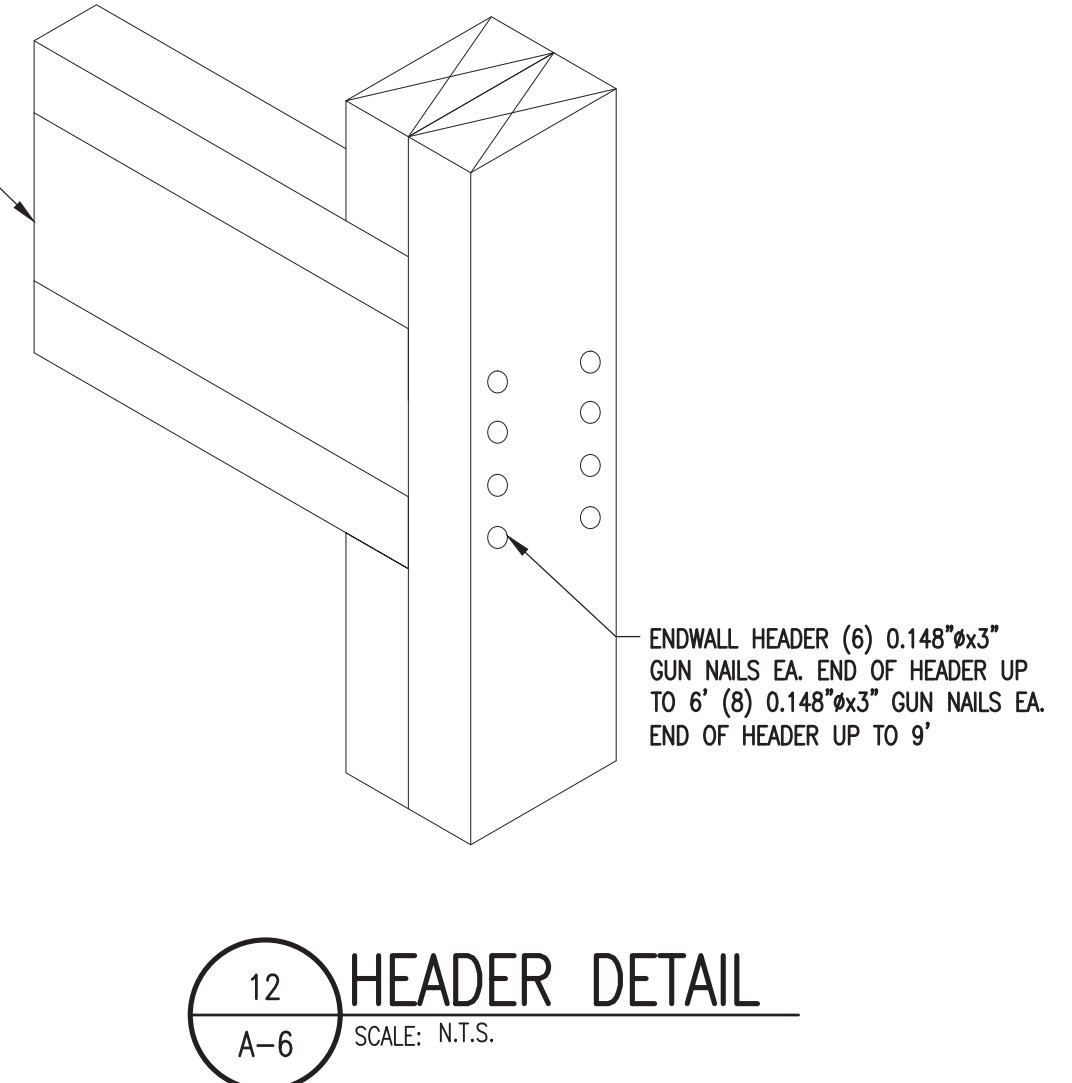
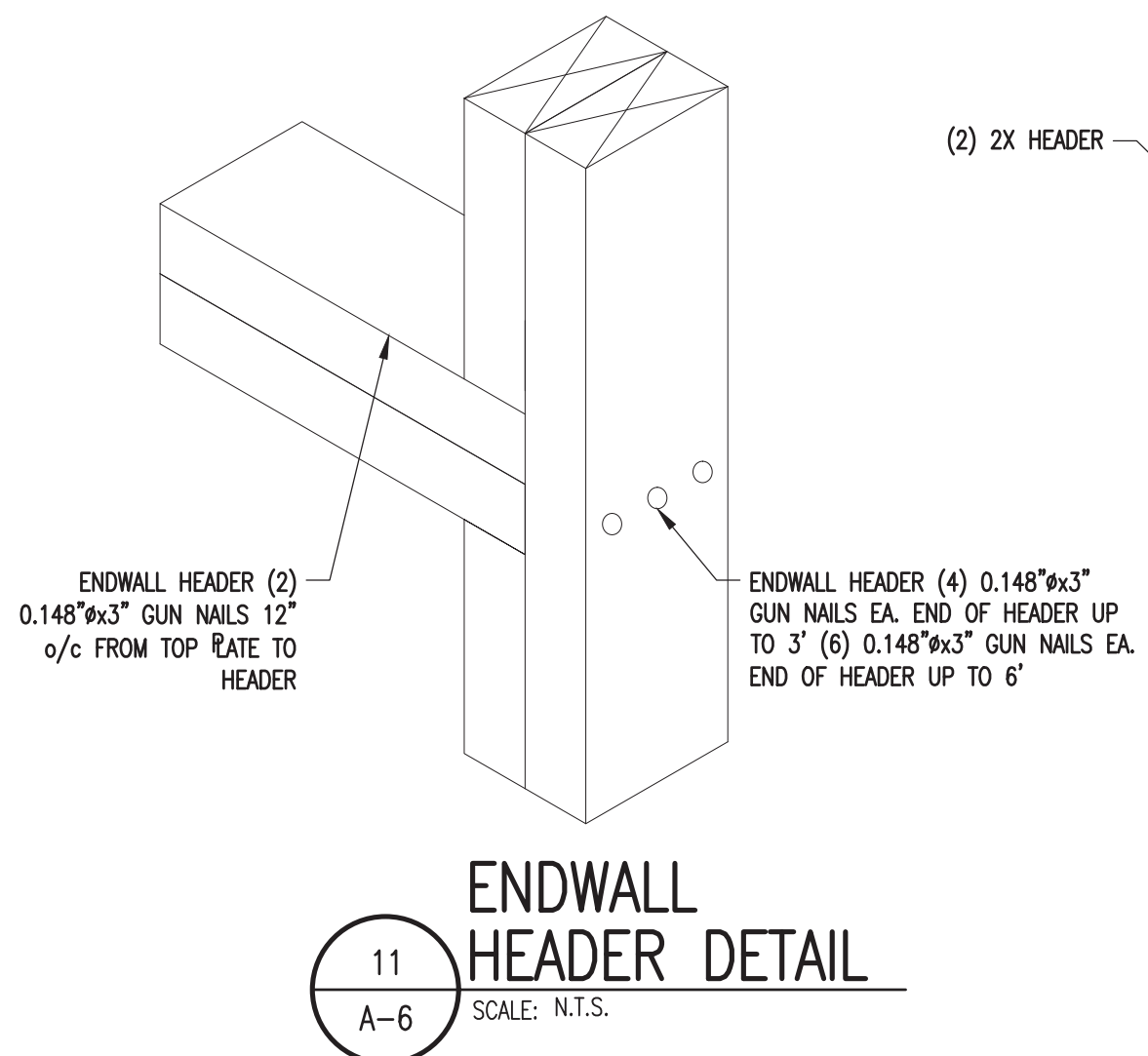
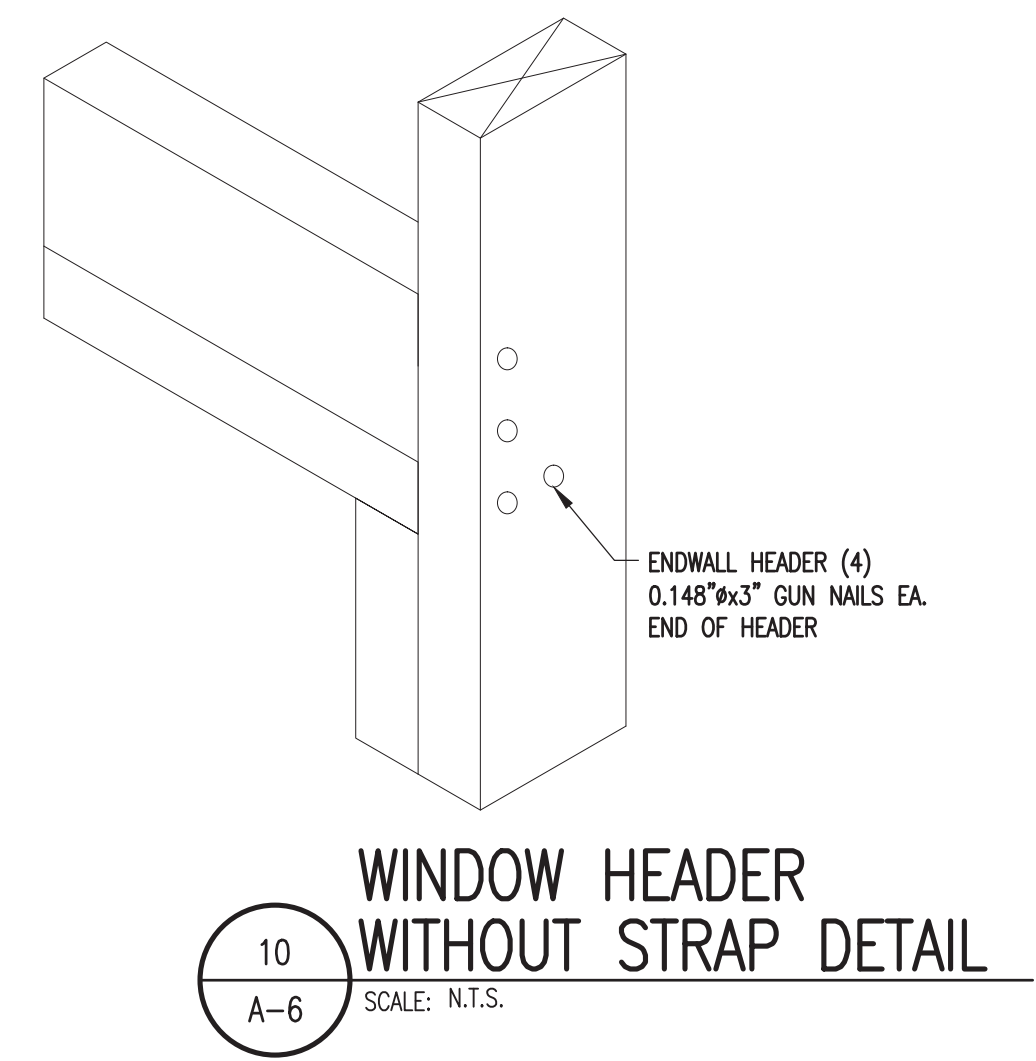
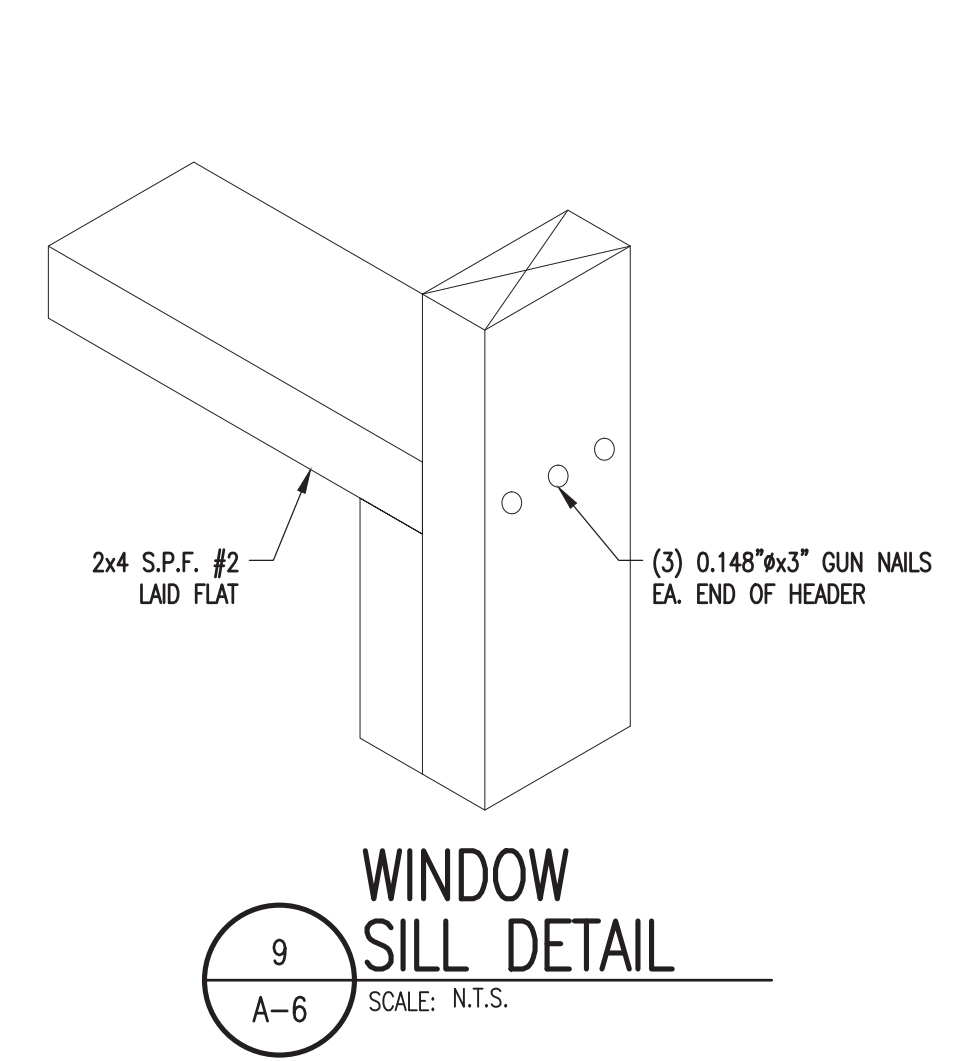
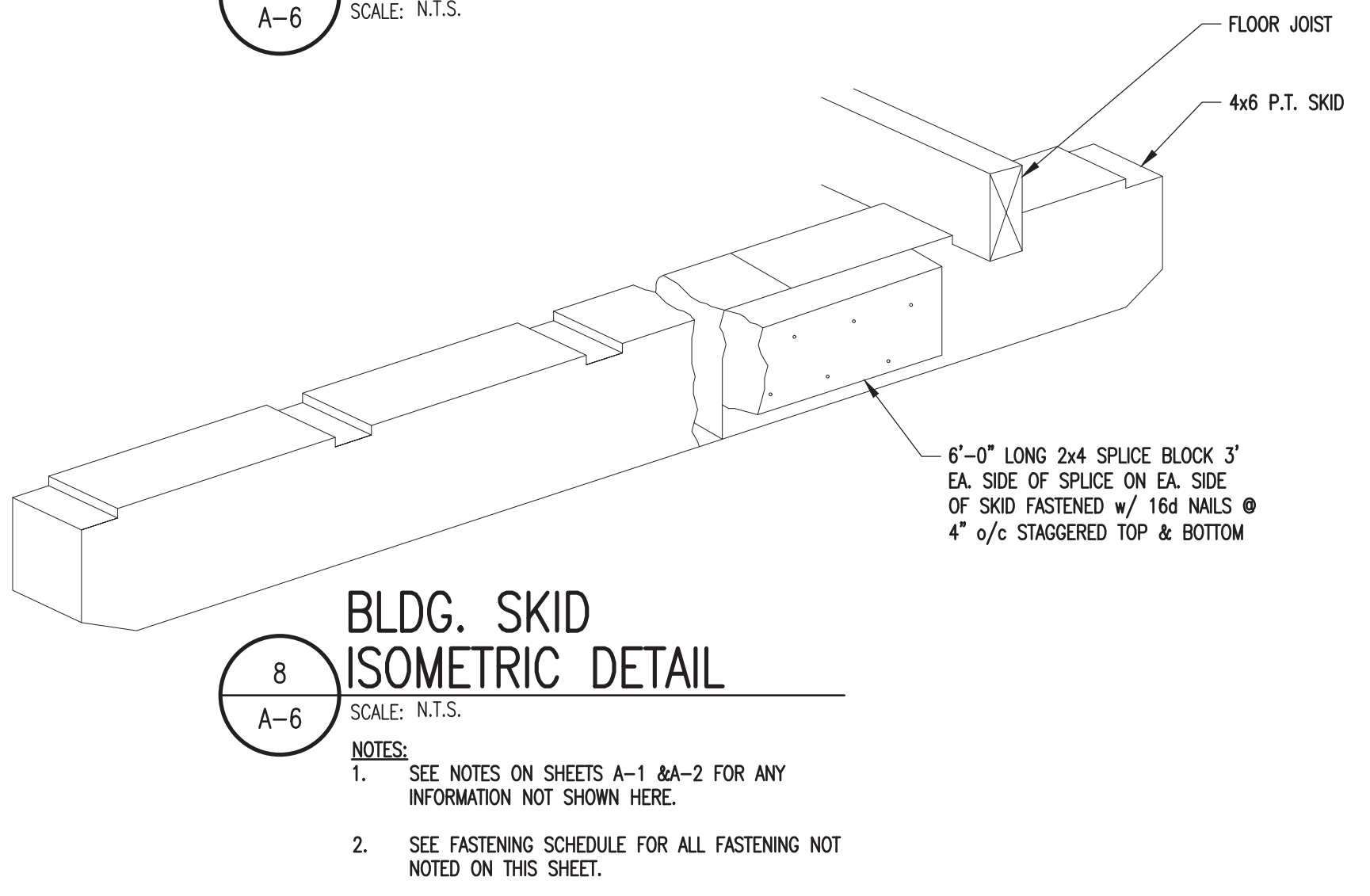
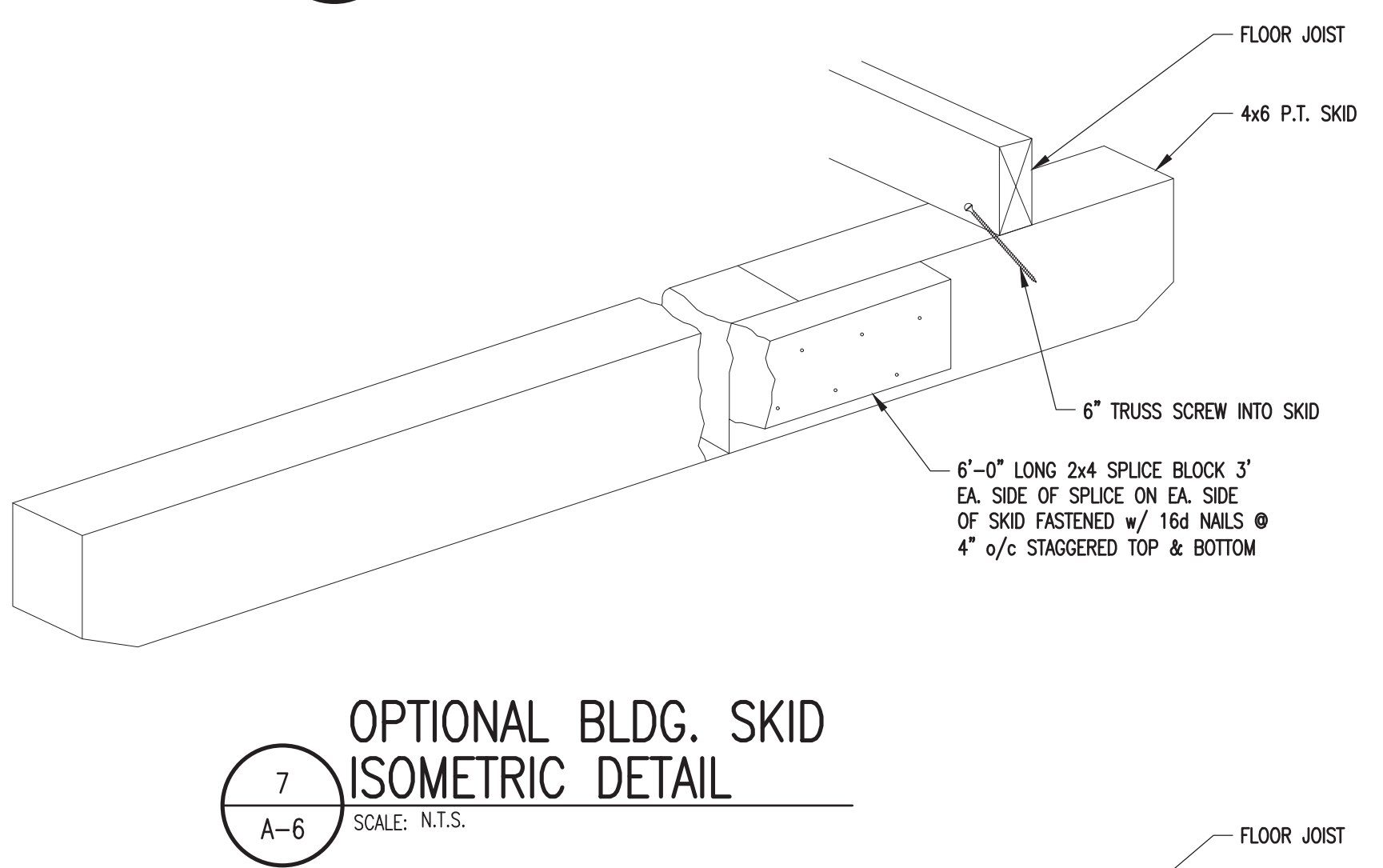
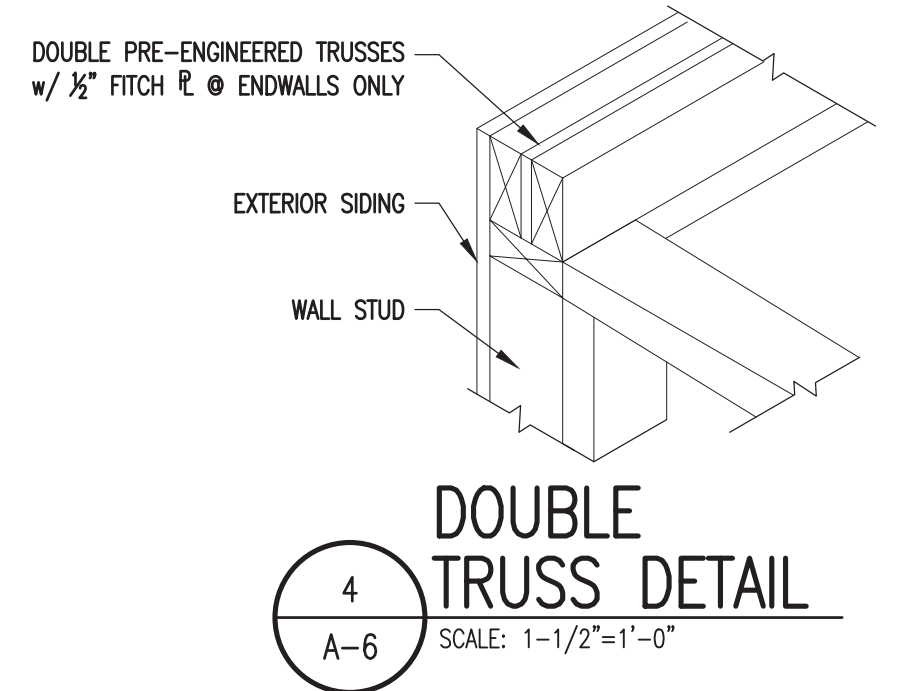
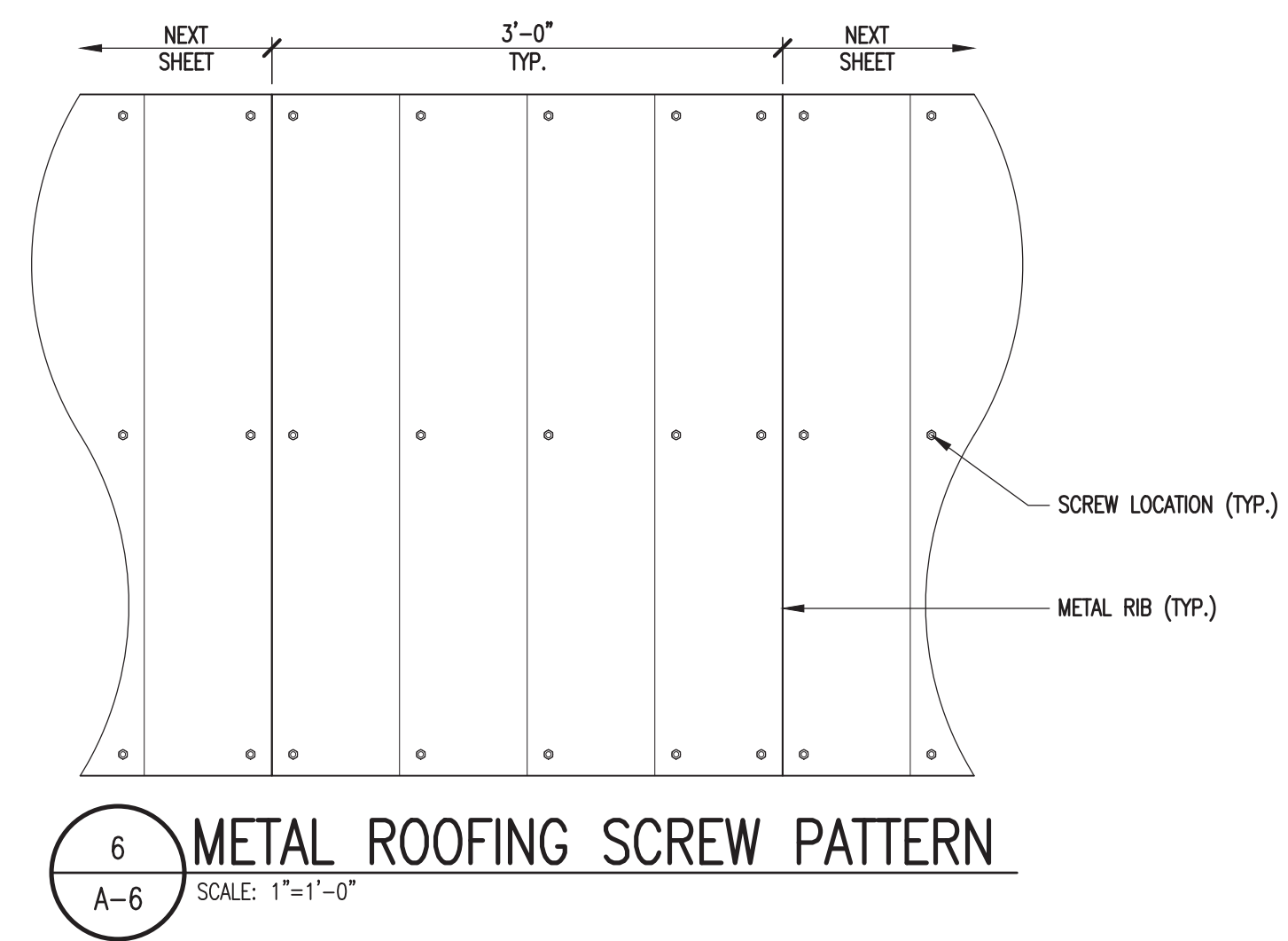
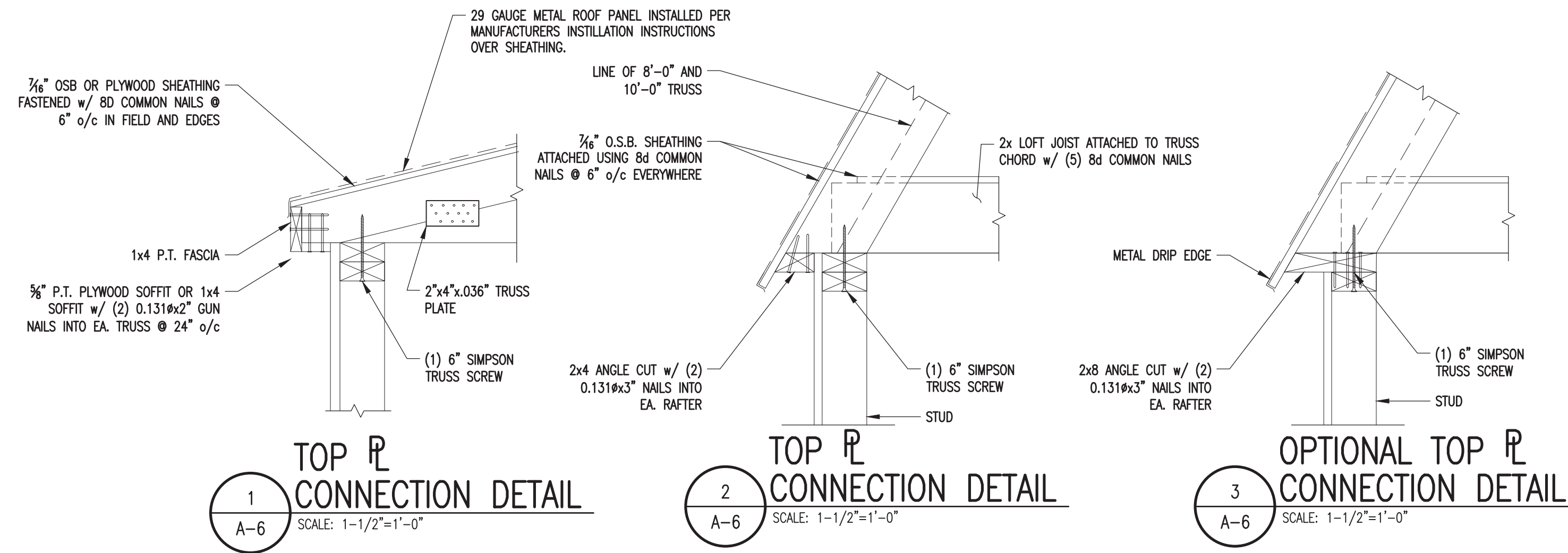


ENGINEERING SERVICES PROVIDED FOR:  
PREMIER PORTABLE BUILDINGS  
317 EAST STATE LINE ROAD  
SOUTH FULTON, TN 38257  
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY

DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG  
DWG NO.: A-5





PROJECT: UTILITY SHED

TYPICAL DETAILS

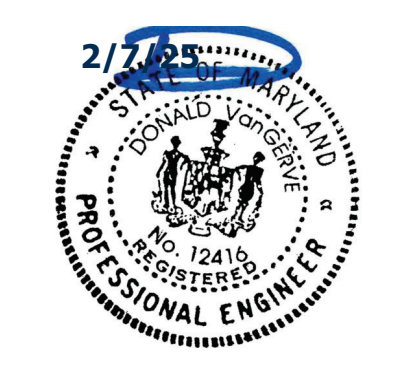
DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

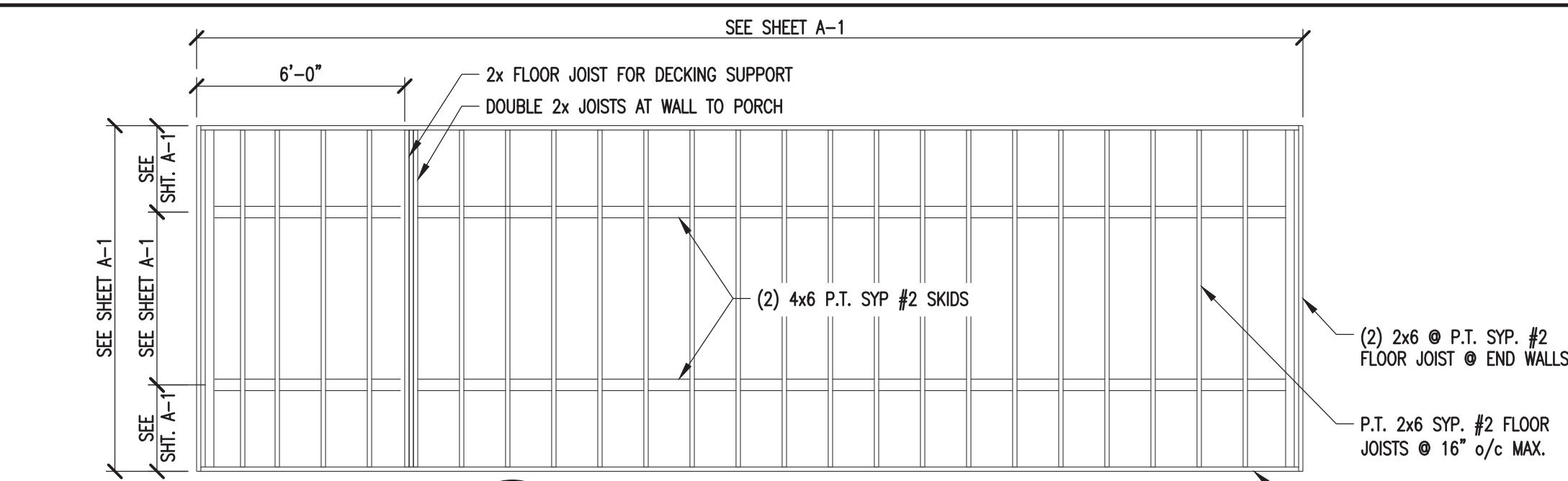


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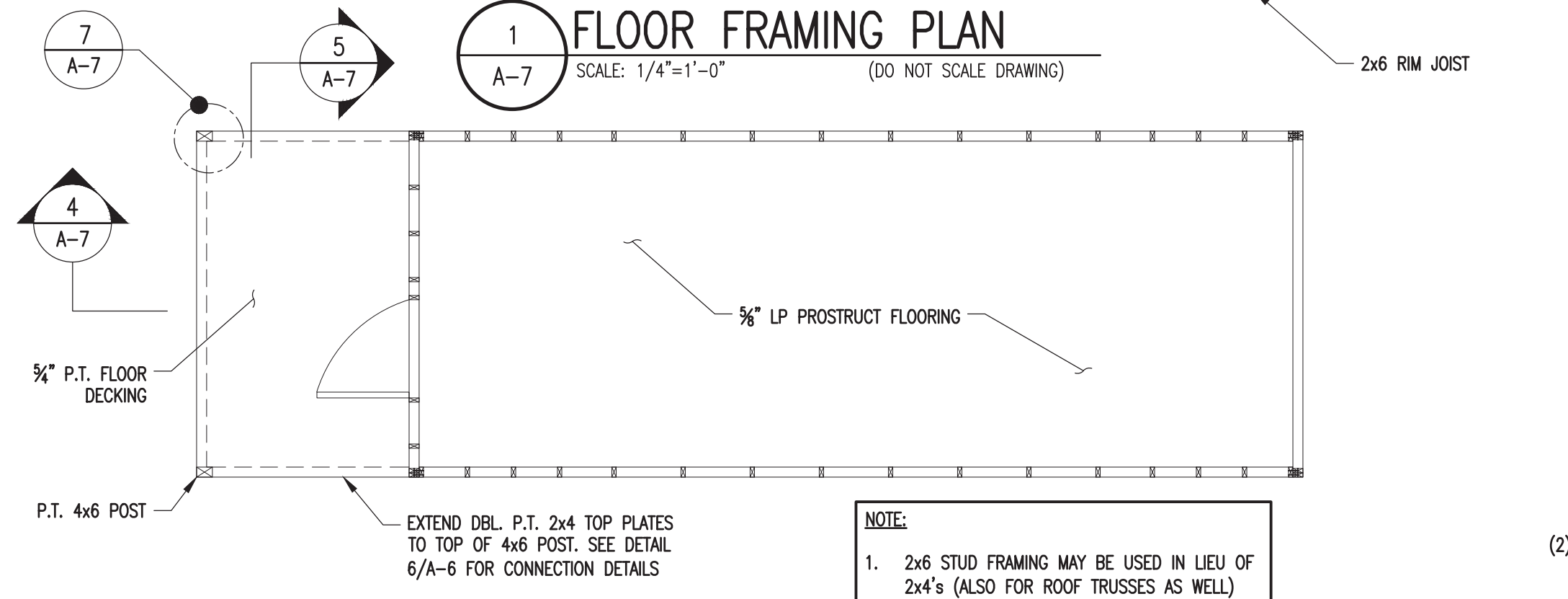
REVISION	DESCRIPTION	DATE	BY
▲			
▲			
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▲			

DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG  
DWG NO.: A-6

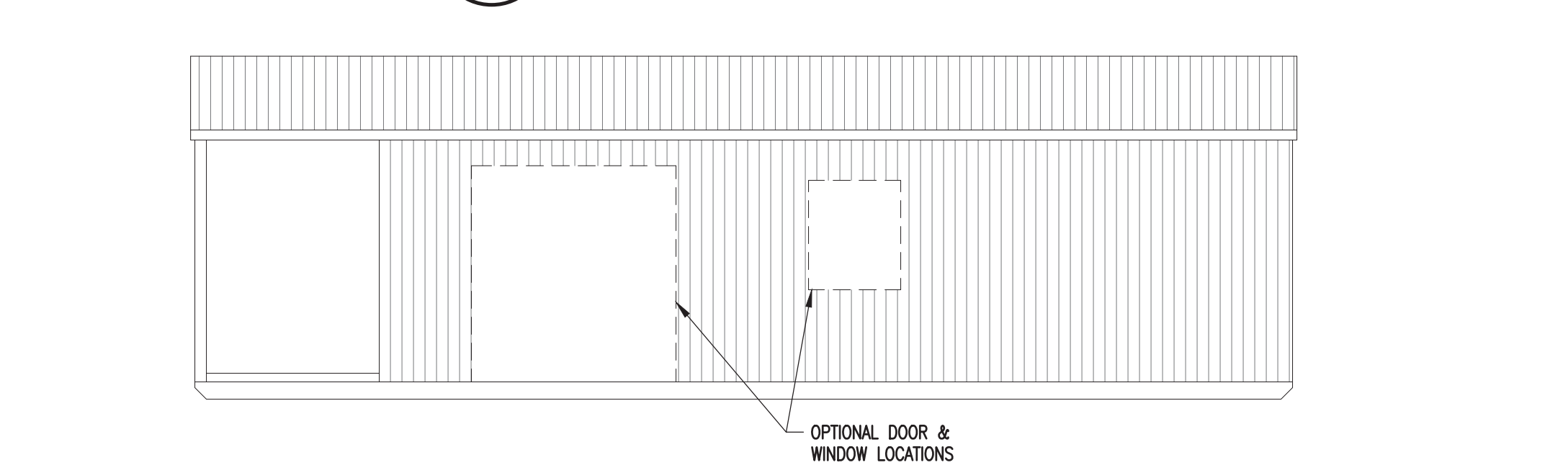




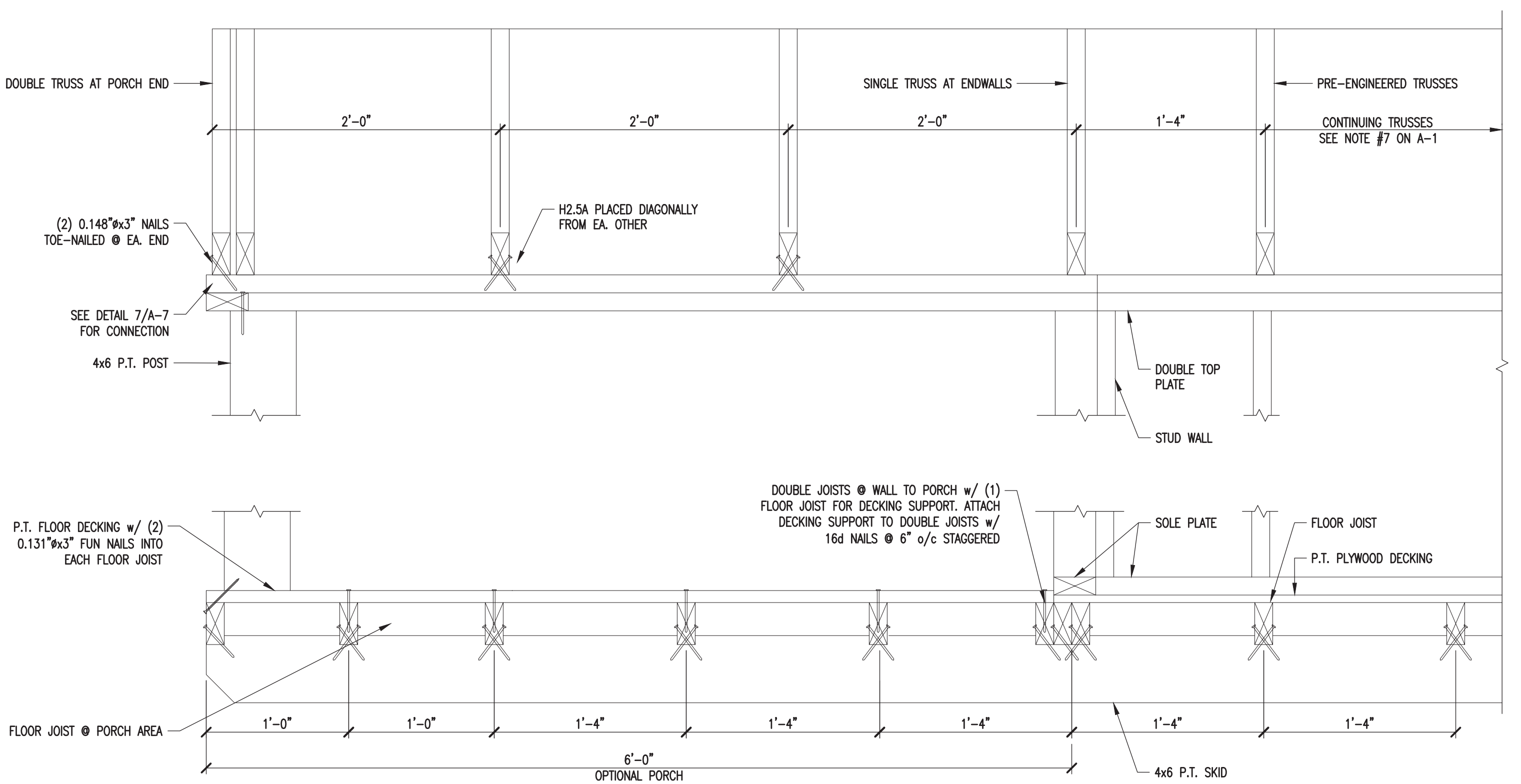
**1 FLOOR FRAMING PLAN**  
SCALE: 1/4"=1'-0"  
(DO NOT SCALE DRAWING)



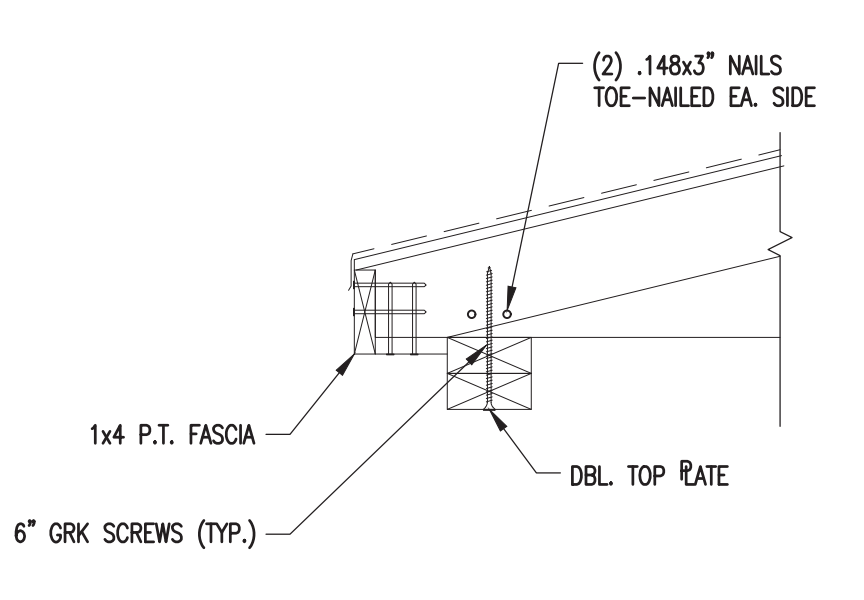
**2 FLOOR FRAMING PLAN**  
SCALE: 1/4"=1'-0"  
(DO NOT SCALE DRAWING)



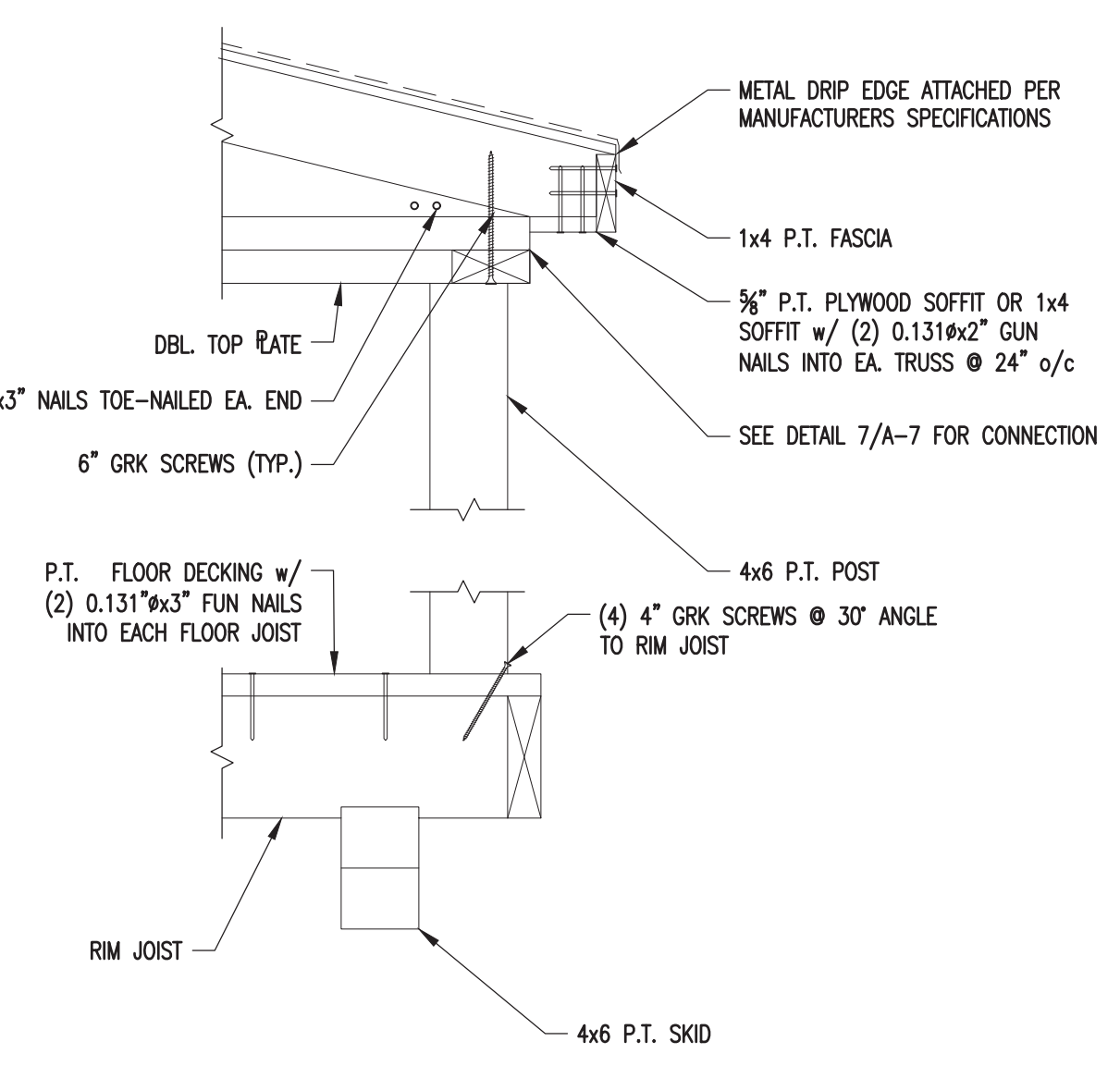
**3 SIDEWALL ELEVATION**  
SCALE: 1/4"=1'-0"



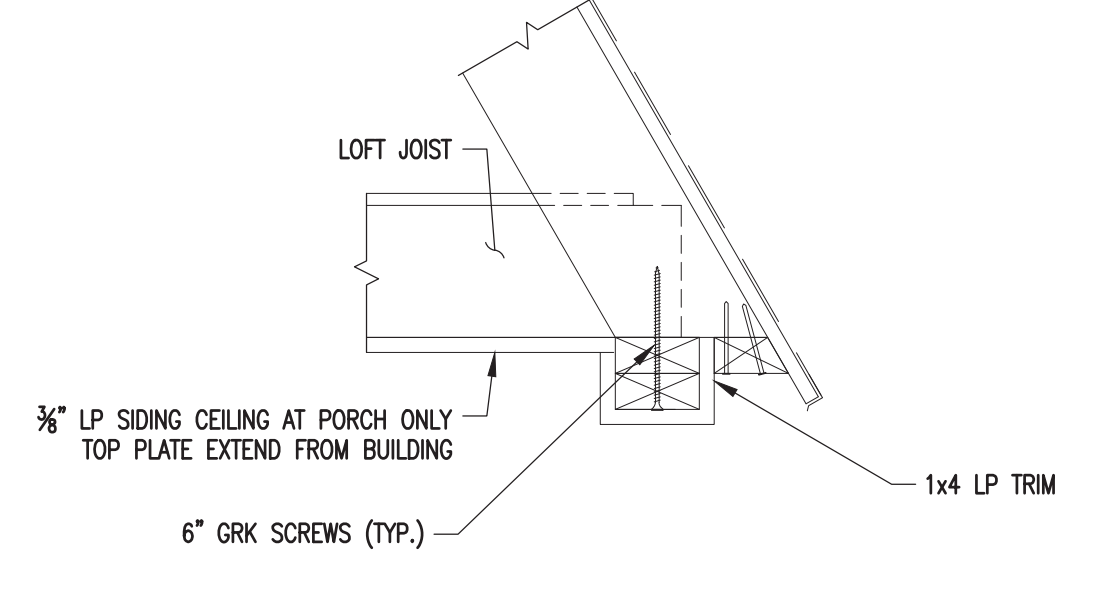
**4 OPTIONAL PORCH SECTION DETAIL**  
SCALE: 1-1/2"=1'-0"



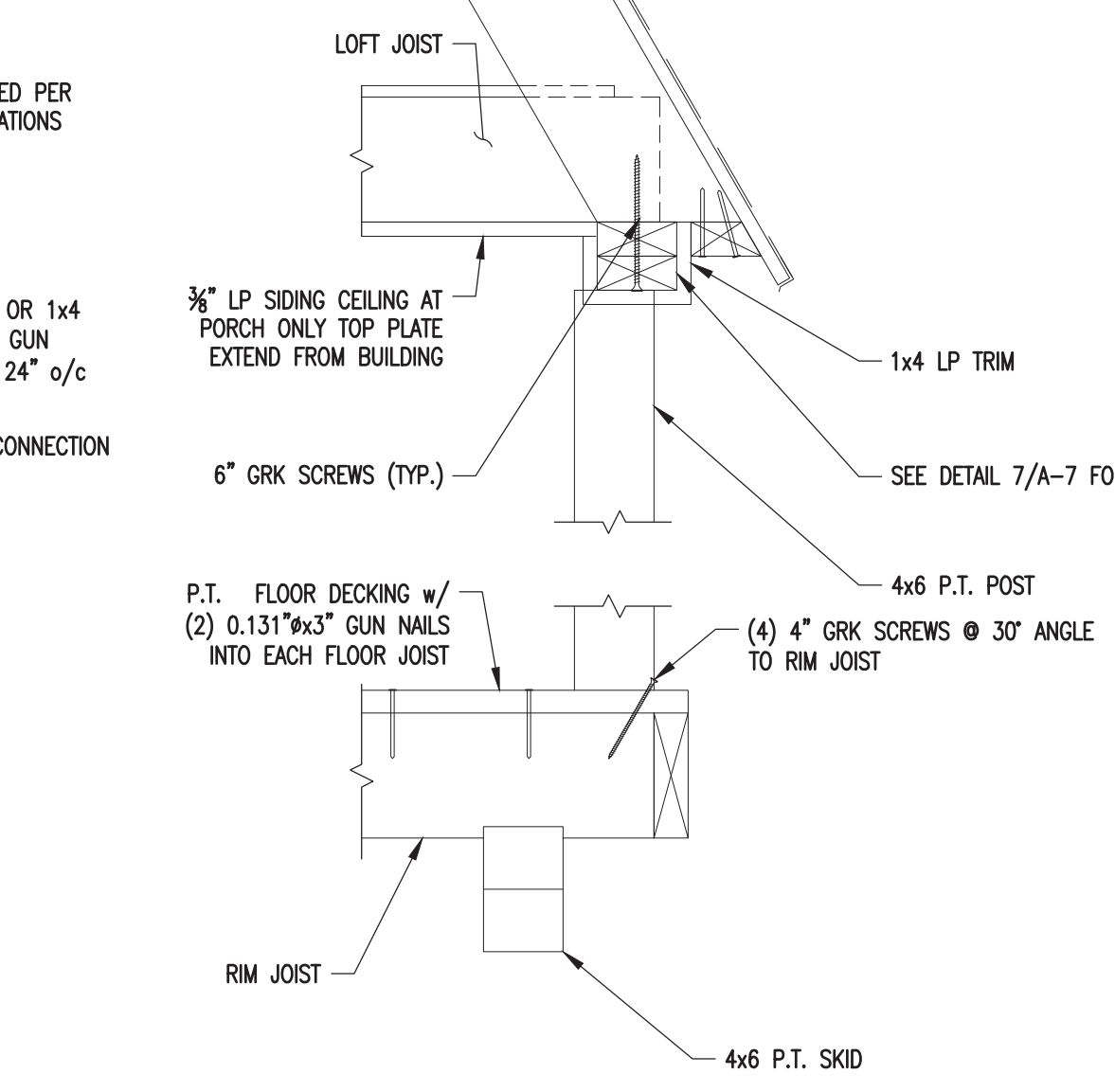
**5 PORCH TOP PLATE DETAIL**  
SCALE: 1-1/2"=1'-0"



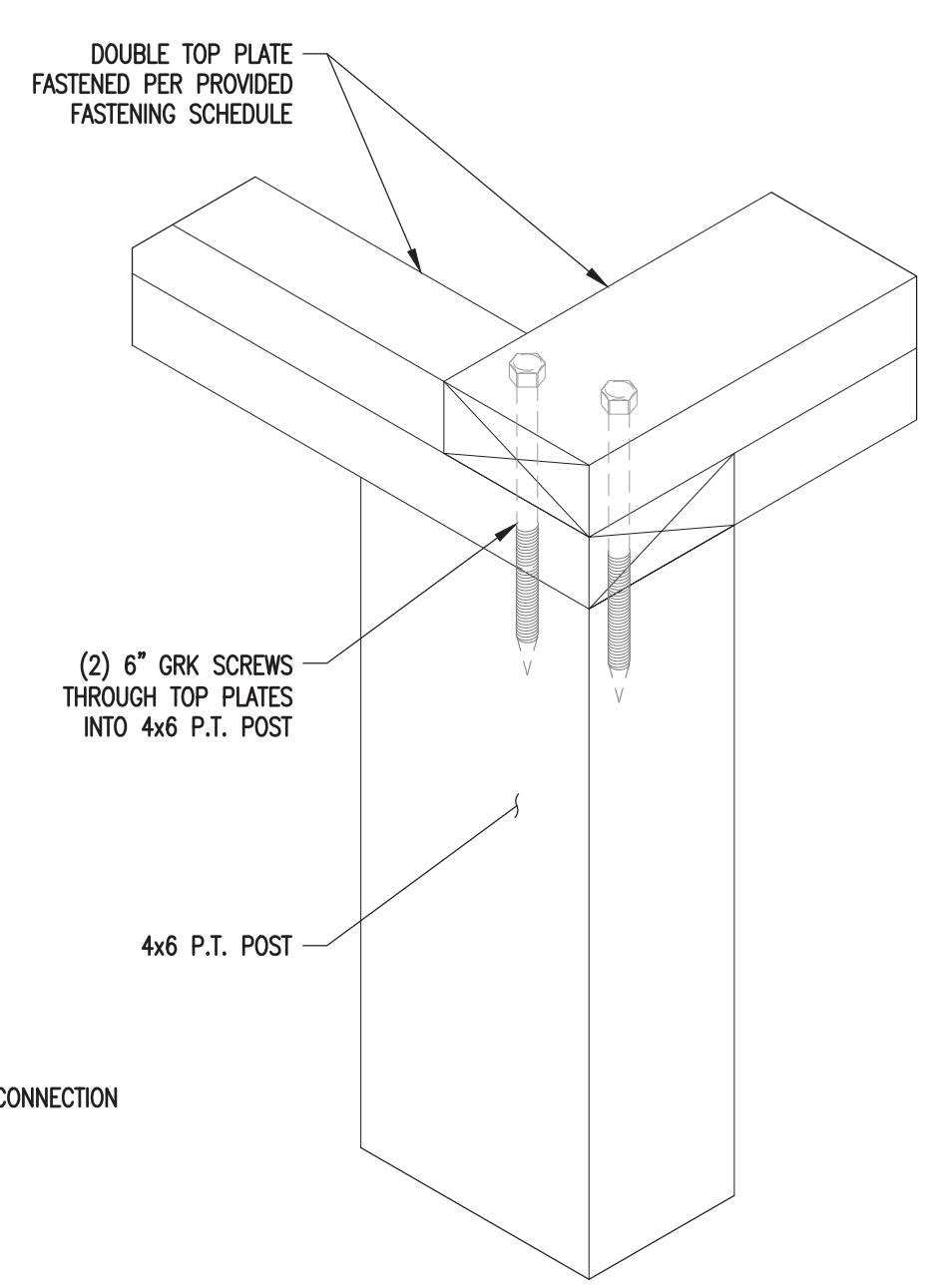
**6 POST TO RIM JOIST DETAIL**  
SCALE: 1-1/2"=1'-0"



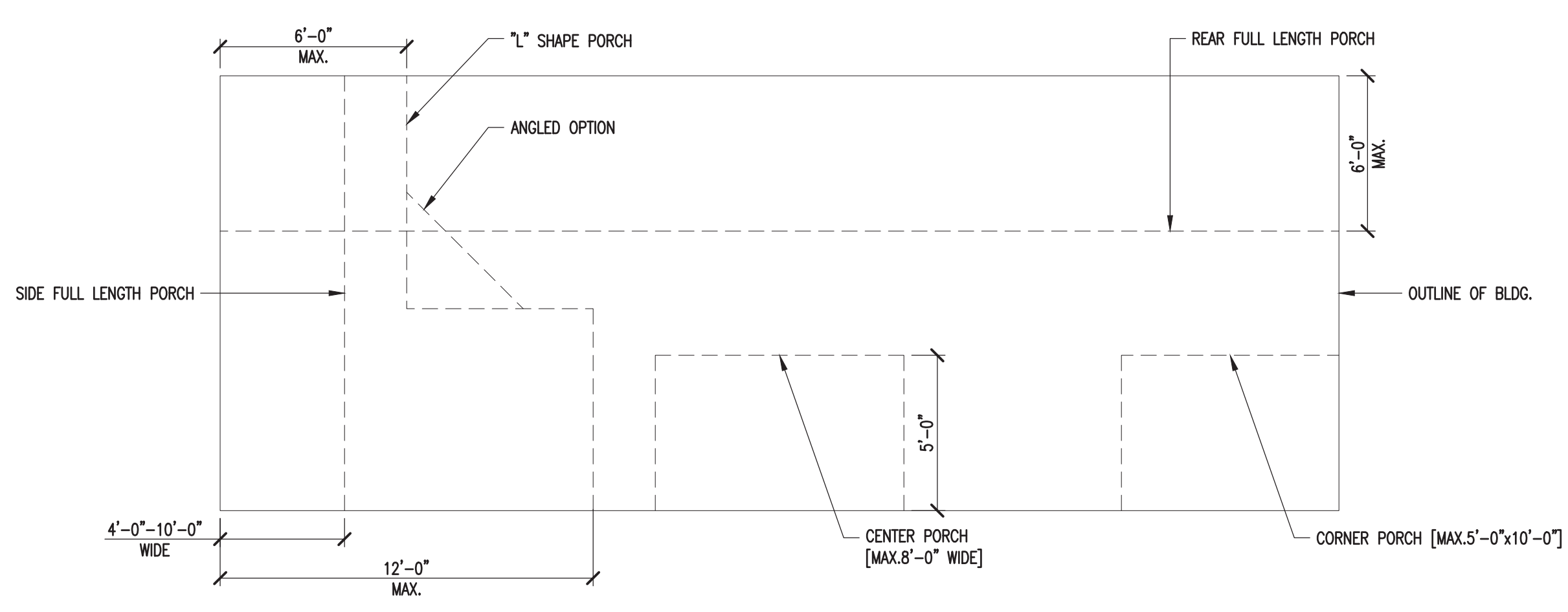
**5A PORCH TOP PLATE DETAIL**  
SCALE: 1-1/2"=1'-0"



**6A POST TO RIM JOIST DETAIL**  
SCALE: 1-1/2"=1'-0"



**7 OPTIONAL PORCH POST TO TOP PLATE DETAIL**  
SCALE: N.T.S.



**8 BUILDING PORCH OPTIONS**  
SCALE: 1/4"=1'-0"  
(DO NOT SCALE DRAWING)

AREA FOR APPROVAL STAMPS

PROJECT: UTILITY SHED

OPTIONAL PORCH PLANS, SECTIONS & DETAILS

DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

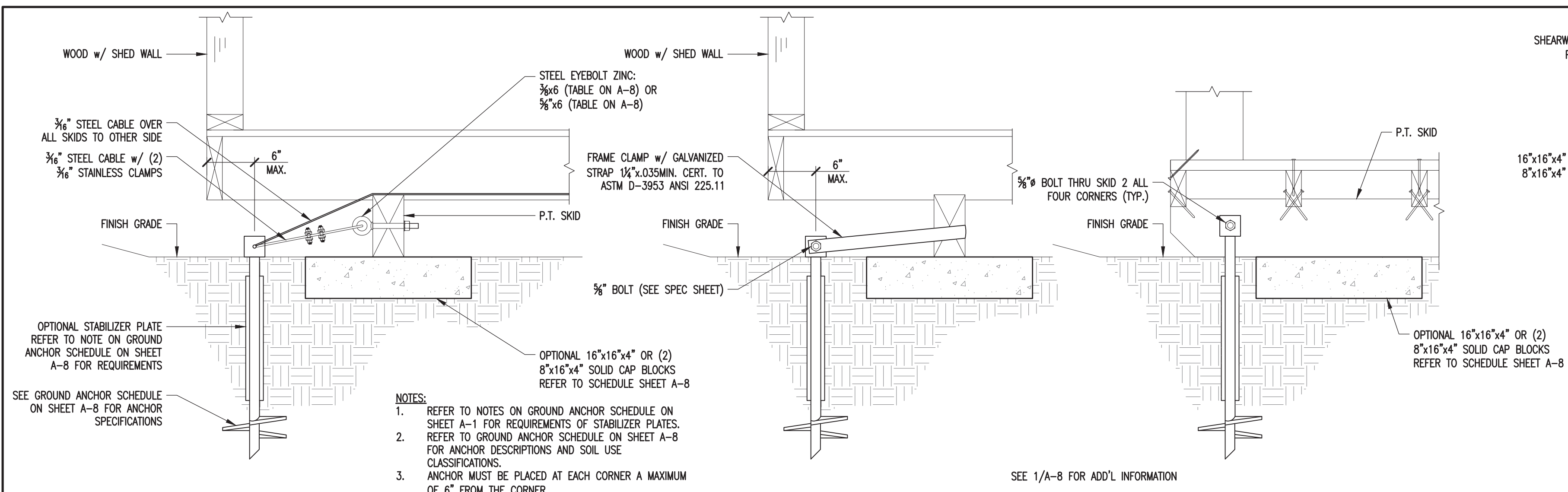


ENGINEERING SERVICES PROVIDED FOR:  
PREMIER PORTABLE BUILDINGS  
317 EAST STATE LINE ROAD  
SOUTH FULTON, TN 38257  
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
▲			
▲			
▲			

DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG  
DWG NO.: A-7



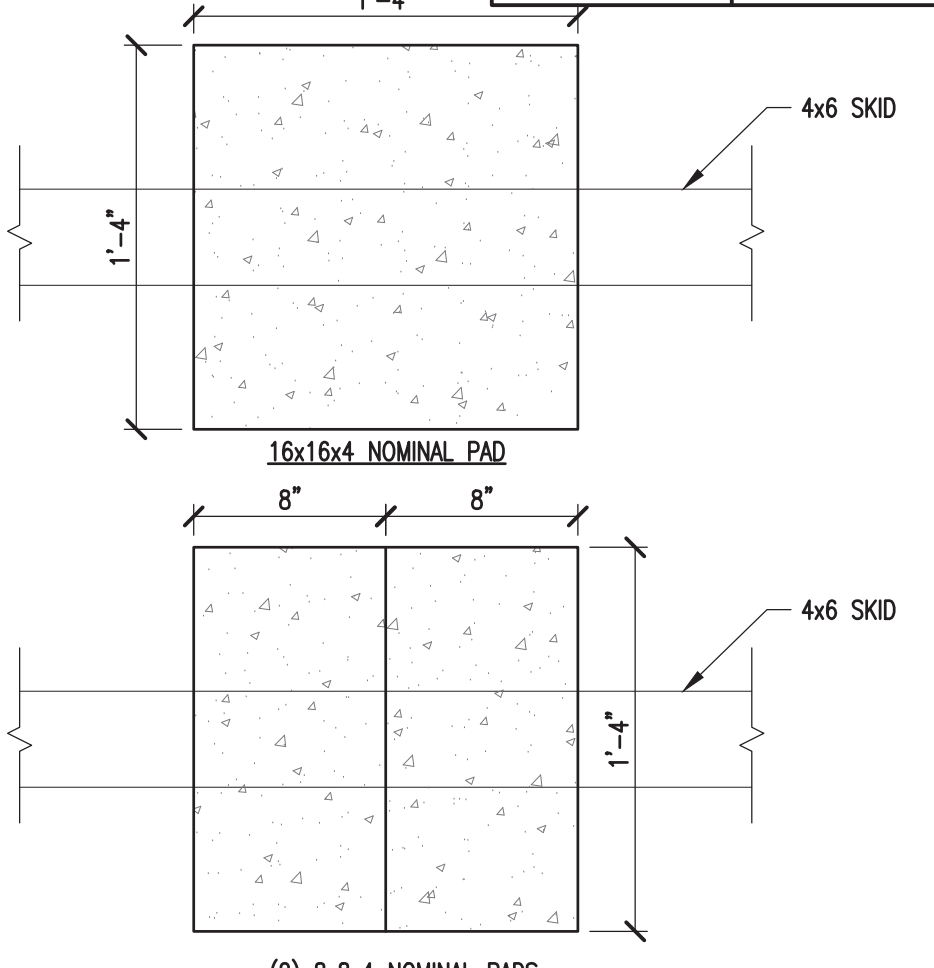
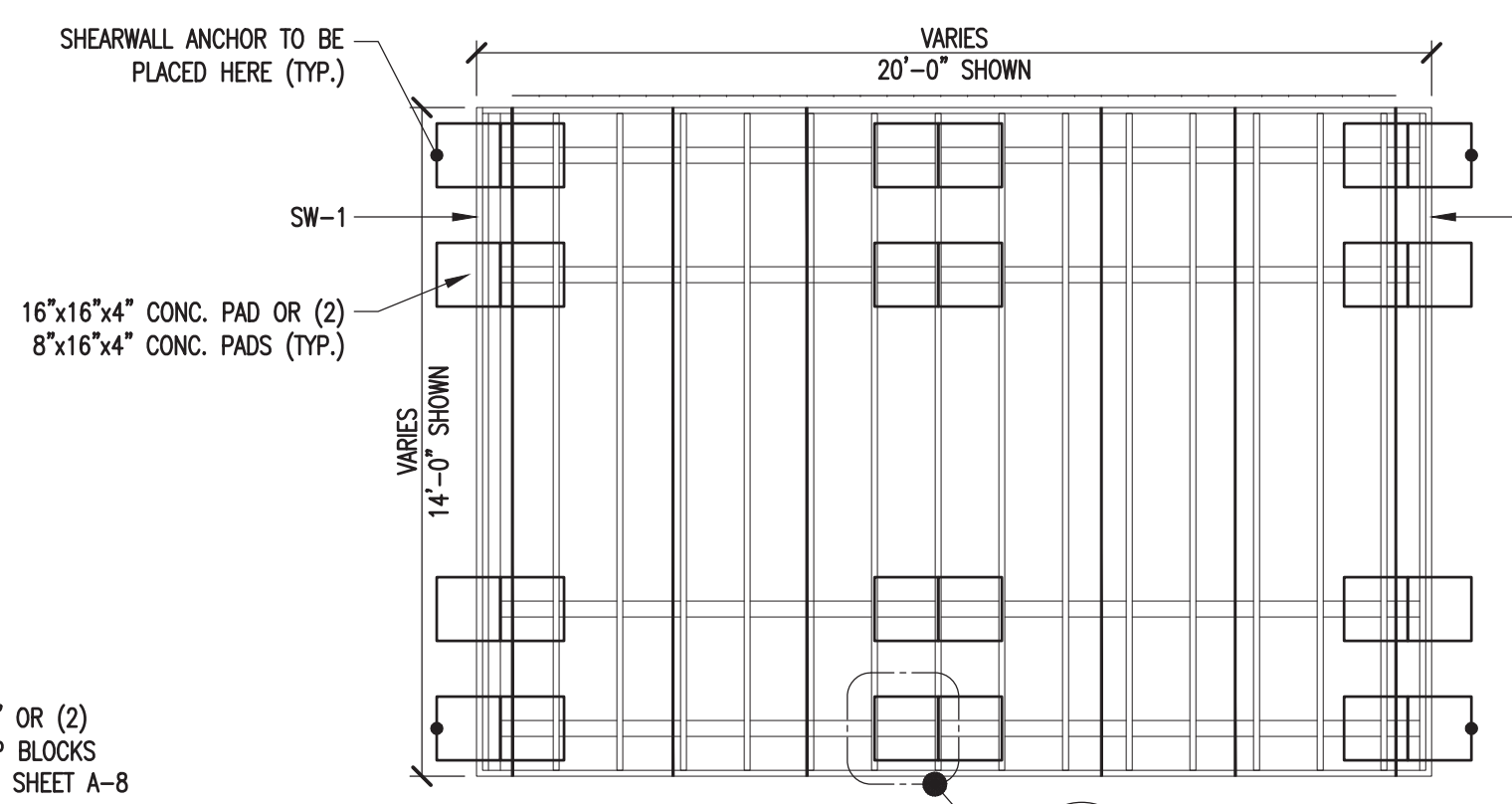


**1 HELIX ANCHOR DETAIL**  
SCALE: 1-1/2"=1'-0"

**2 OPTIONAL ANCHOR DETAIL**  
SCALE: 1-1/2"=1'-0"

**3 ANCHOR DETAIL**  
SCALE: 1-1/2"=1'-0"

**4 FLOOR FRAMING PLAN**  
SCALE: 1/4"=1'-0" (DO NOT SCALE DRAWING)



**5 PAD DETAILS**  
SCALE: 1-1/2"=1'-0"

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DETAIL AND DIMENSIONS. ANY DISCREPANCIES BETWEEN SUCH DETAILS AND DIMENSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION PROCEDURE AND SEQUENCE TO INSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION.
- THESE PLANS HAVE BEEN PREPARED PER REGULATIONS OF THE 2018 ICC IRC CODE. THE WORK OF ALL CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN THE AFORESAID CODE. NO DEVIATIONS FROM THE WORK SHOWN OR REASONABLY IMPLIED SHALL BE UNDERTAKEN WITHOUT THE ENGINEER'S WRITTEN CONSENT - A COPY OF WHICH WILL BE FILED WITH THE CONSTRUCTION OFFICIAL.
- ANY CHANGES TO OR DEVIATIONS FROM THESE DRAWINGS SHALL NOT BE MADE WITHOUT WRITTEN CONSENT FROM THE ENGINEER.
- THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE USED WITHOUT HIS CONSENT. DRAWINGS SHALL NOT BE USED FOR ISSUE OF BUILDING PERMIT UNLESS SIGNED AND SEALED BY THE ENGINEER.
- THE OWNER AND CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL LIABILITY CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF OR RESULTING FROM ERRORS OR OMISSIONS IN THE PERFORMANCE OF THE WORK BY THE CONTRACTOR. ALL WORK AND MATERIAL SHALL MEET THE REQUIREMENTS OF ALL LOCAL AND STATE BUILDING CODES. THE DRAWING SHOW THE GENERAL ARRANGEMENTS AND EXTENT OF THE WORK. AS THE WORK PROGRESSES, THE OWNER AND THE CONTRACTOR, AT NO EXTRA COSTS, SHALL MAKE MODIFICATIONS TO MAKE THE PARTS ALIGN.
- CONTRACTORS SHALL CHECK AND VERIFY ALL PLAN DIMENSIONS AND CONDITIONS BEFORE PROCEEDING CONSTRUCTION. HE SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER FOR CORRECTION PRIOR TO BEGINNING ANY WORK. THE DISCOVERY OF DISCREPANCIES AFTER THE BEGINNING OF WORK WILL BE EVIDENCE OF FAULTY WORK AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DO NOT SCALE DRAWINGS. ALL WRITTEN DIMENSIONS GOVERN.
- THE CONTRACTOR FOR THIS PROJECT SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE TOTAL PROJECT. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, MACHINERY, TRANSPORTATION, HEAT, WATER, UTILITIES, AND ALL OTHER FACILITIES AND SERVICES REQUIRED FOR THE SAFE AND PROPER EXECUTION AND COMPLETION OF THE WORK. THE ENGINEER SHALL BE THE INTERPRETER OF THE CONTRACT DOCUMENTS.
- THE DOCUMENTS SHOWN AN OVERVIEW OF THE WORK REQUIRED UNDER THIS CONTRACT AND RELATED REQUIREMENTS AND CONDITIONS THAT WILL IMPACT THE PROJECT. ALL DRAWINGS ARE COMPLEMENTARY. THE DRAWINGS GENERALLY SHOW THE INTENT OF THE OVERALL COMPLEXITY AND CONCEPTS OF THE PROJECT, AND DO NOT NECESSARILY SHOW ALL DETAILS AND CONDITIONS.
- ALL NEW INTERIOR CONCRETE SLABS AND FOUNDATION WALLS AND FOOTING SHALL HAVE SOLID POISONING UNDER NEW WORK AND SHALL BE INSTALLED BY A LICENSED CONTRACTOR. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL STATE AND DEPARTMENT OF AGRICULTURE, STRUCTURAL PEST CONTROL DIVISION REGULATIONS, RULES, DEFINITIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND MAINTAINING ALL EXISTING SETBACKS, EASEMENTS, AND ANY DEED RESTRICTIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CLEANUP AND SHALL INCLUDE THE SITE, AND THE BUILDING. THE ENTIRE PROJECT SHALL BE LEFT IN A NEW, CLEAN CONDITION.

GROUND ANCHOR SCHEDULE				
MODEL #	PART #	DESCRIPTION	SOIL CLASS	
M12H5/8	59080 / 59081	48" x 5/8" ROD w/ (1) 6" HELIX	4A	
M12H3/4	59085 / 59094	48" x 3/4" ROD w/ (1) 6" HELIX	4A	
M1423/4	59128	42" x 3/4" ROD w/ (2) 4" HELIX	4A	
M1483/4	59086	48" x 3/4" ROD w/ (2) 4" HELIX	4A	
M12H64	59250	36" x 3/4" ROD w/ (1) 4" HELIX & (1) 6" HELIX	4A	
N/A	59065	EYE ANCHOR - 48" X 5/8" w/ (1) 6" HELIX	4A	
N/A	59045	EYE ANCHOR - 48" X 3/4" w/ (1) 6" HELIX	4A	
M607	59099	60" X 3/4" w/ (1) 7" HELIX	4B	
N/A	59040	EYE ANCHOR 60" X 3/4" w/ (1) 8" HELIX	4B	

**OPTIONAL PAD SCHEDULE FOR ALL WIND SPEEDS AND EXPOSURES**

BUILDING WIDTH	NUMBER OF PADS BY LENGTH UNDER EACH SKID																		
	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"	50'-0"	60'-0"	
8'-0"	3	3	3	3	3	4	4	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10'-0"	3	3	3	4	4	4	4	5	5	5	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11'-2"	2	2	3	3	3	3	3	3	3	4	4	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12'-0"	2	2	3	3	3	3	3	3	4	4	4	4	4	4	N/A	N/A	N/A	N/A	N/A
14'-0"	2	3	3	3	3	3	3	4	4	4	4	4	4	5	5	5	6	7	
16'-0"	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	6	7	

**ANCHORING FOR 170 M.P.H. WIND SPEED, EXPOSURE "C" - 3/8" ANCHOR BOLT**

BUILDING WIDTH	MAX. SPACING OVERTURN	NUMBER OF ANCHORS EACH SIDE WALL																		
		10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"	50'-0"	60'-0"	
8'-0"	3.15	5	5	6	7	7	8	8	9	10	10	11	12	12	13	14	14	17	20	
10'-0"	3	5	6	6	7	8	8	9	10	10	11	12	12	13	14	14	15	17	20	
11'-2"	3.98	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	16	19	
12'-0"	4.01	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	15	18	
14'-0"	4.10	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	14	16	
16'-0"	4.18	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	14	16	

**ANCHORING FOR 170 M.P.H. WIND SPEED, EXPOSURE "C" - 5/8" ANCHOR BOLT**

BUILDING WIDTH	MAX. SPACING OVERTURN	NUMBER OF ANCHORS EACH SIDE WALL																		
		10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"	50'-0"	60'-0"	
8'-0"	4.61	4	4	5	5	5	6	6	7	7	8	8	8	9	9	10	10	12	14	
10'-0"	4.30	4	4	5	5	6	6	7	7	8	8	8	9	9	10	10	11	12	14	
11'-2"	5.84	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	11	13	
12'-0"	5.88	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	11	13	
14'-0"	6.01	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	11	13	
16'-0"	6.13	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	1	13	

PROJECT: UTILITY SHED

FASTENING SCHEDULE / WIND LOADING

DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

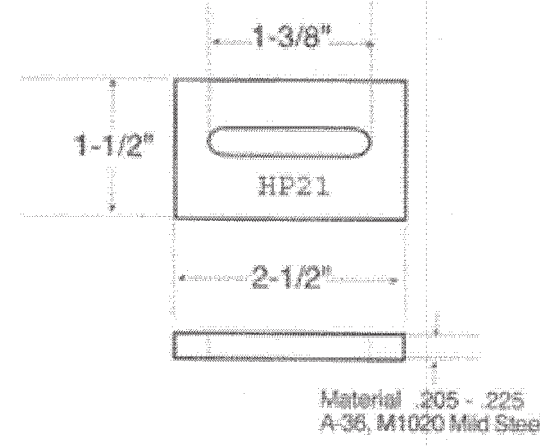
ENGINEERING SERVICES PROVIDED FOR:  
**PREMIER PORTABLE BUILDINGS**  
317 EAST STATE LINE ROAD  
SOUTH FULTON, TN 38257  
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			

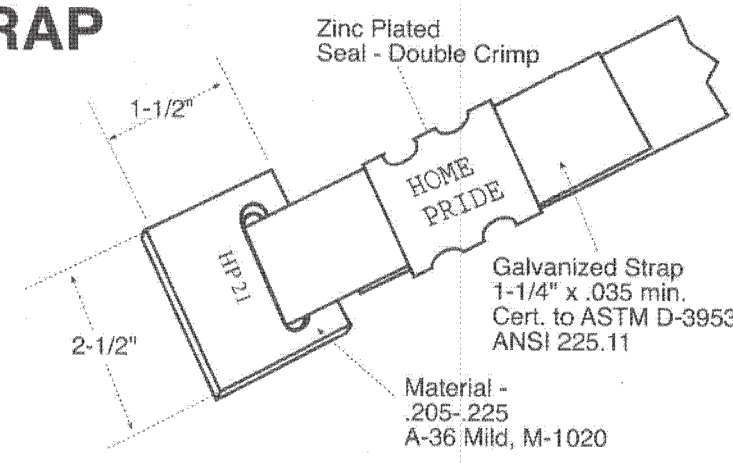
DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG  
DWG NO.: A-8



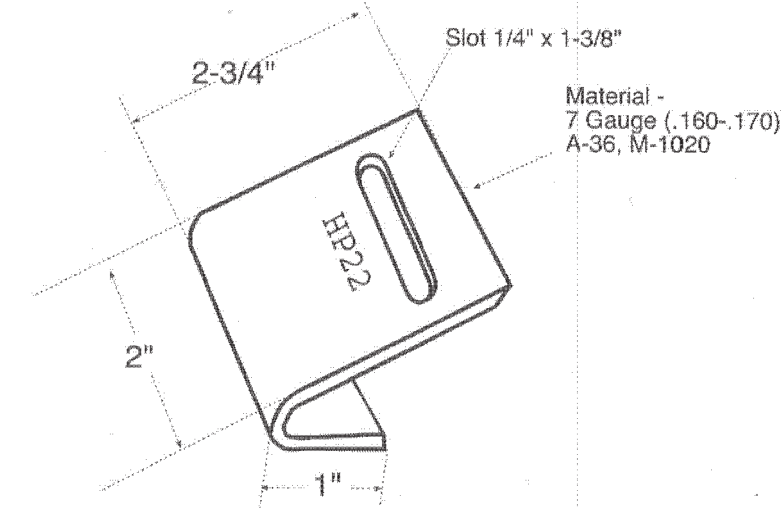
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SINGLE SLOT  
BUCKLE**



**HP21-(6 thru 15)  
SINGLE BUCKLE  
W/STRAP**

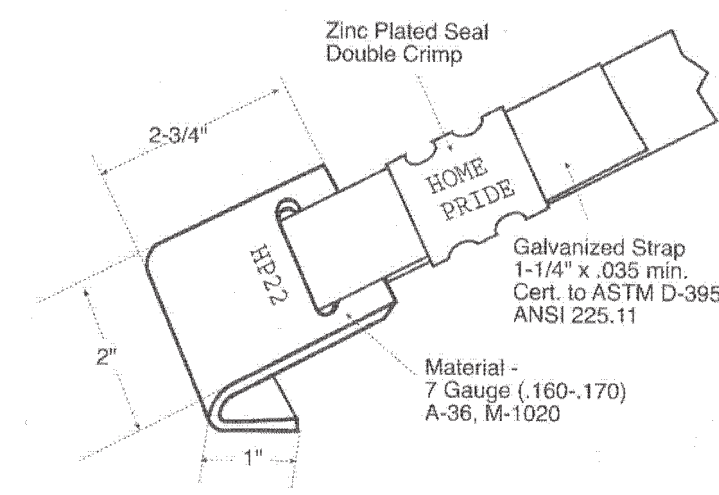


**HP22  
FRAME  
CLAMP**

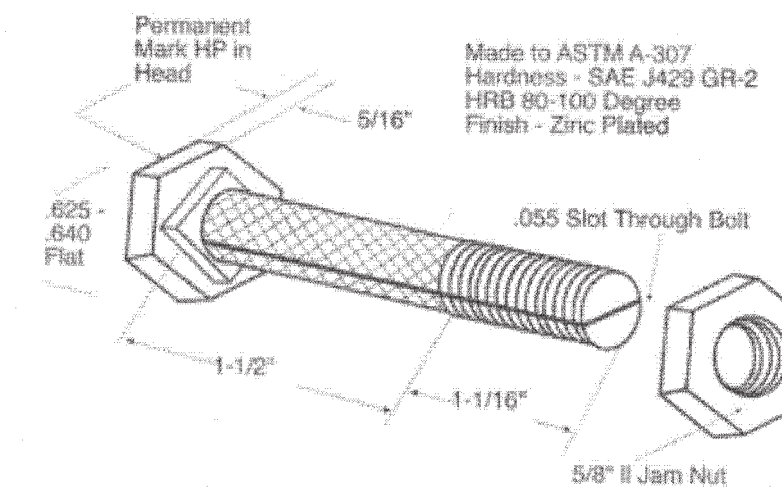


8

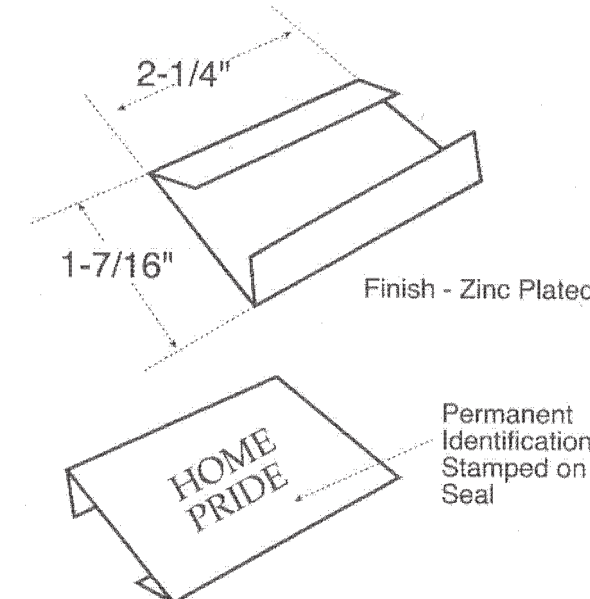
**HP22-(6 thru 15)  
FRAME CLAMP  
W/STRAP**



**HPAB  
ANCHOR  
BOLT & NUT**



**HPSS  
STRAP SEAL**



**INSTALLATION INSTRUCTIONS:**  
When using seals to extend the strap:  
1. Overlap a minimum of 8".  
2. Use two seals placed together.  
3. Crimp each seal twice.

9

PROJECT: UTILITY SHED

PRODUCT CUT SHEETS

DON VAN GERVE, P.E.  
SPECIALTY STRUCTURAL ENGINEER

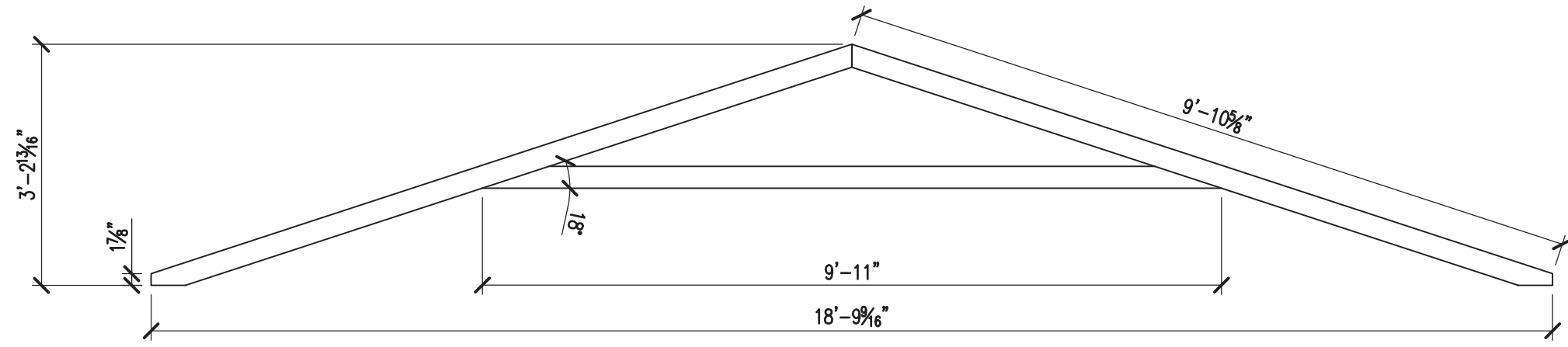
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SOUTH FULTON, TN 38257  
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REVISION	DESCRIPTION	DATE	BY
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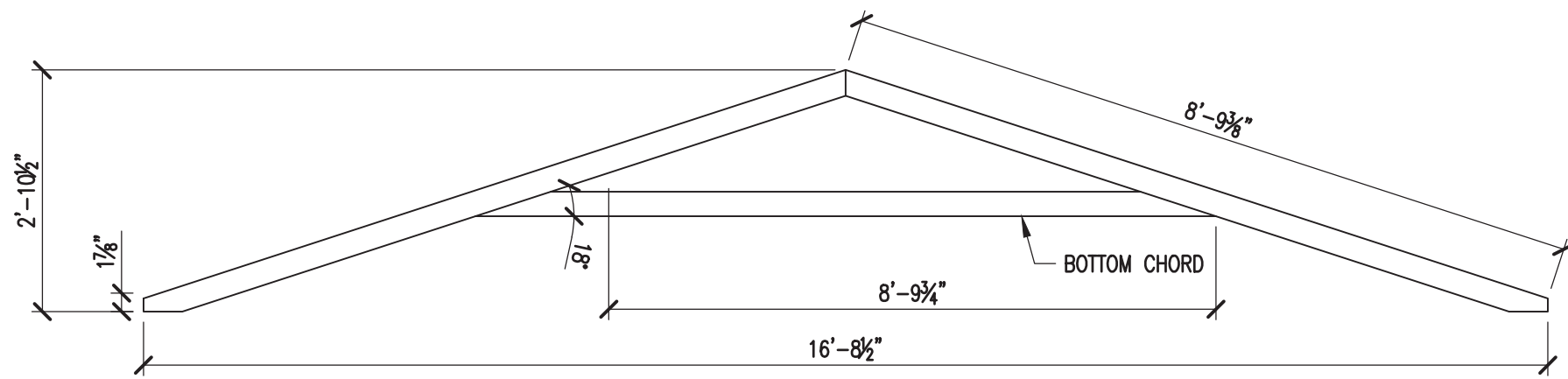
DATE: 2.6.25  
PROJECT NO.: 25025  
DRAWING BY: JH  
CHK BY: DVG

DWG NO.:  
**A-9**

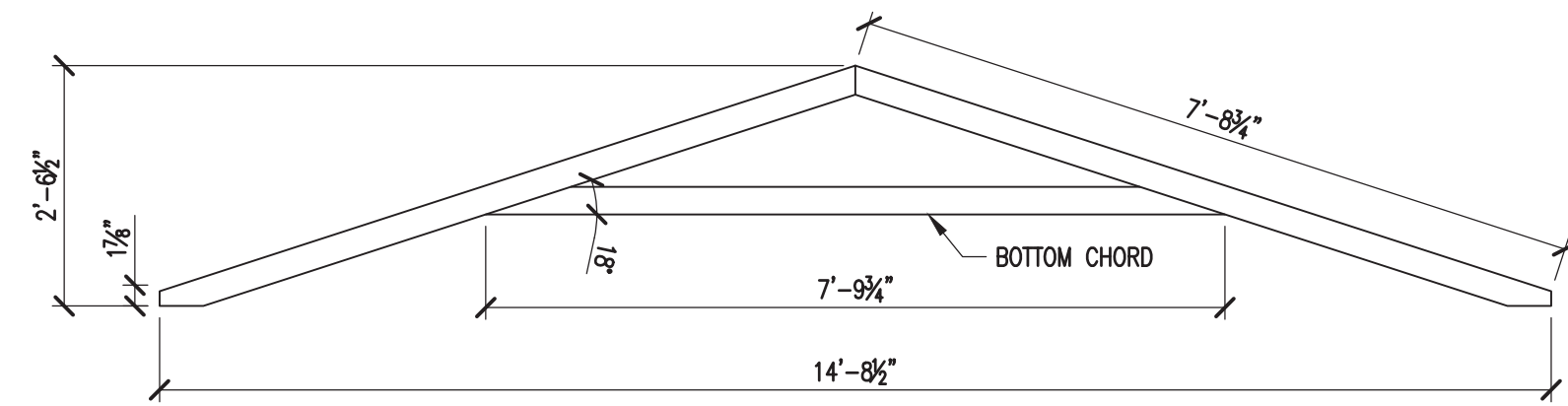




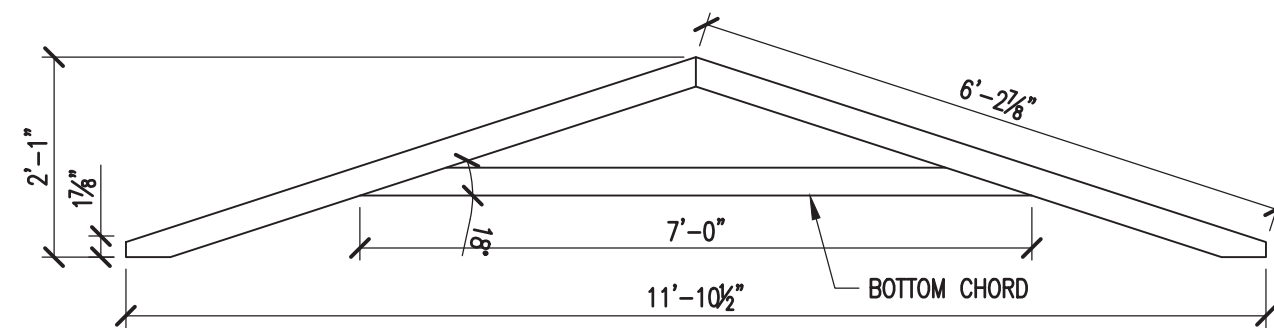
18' UTILITY TRUSS



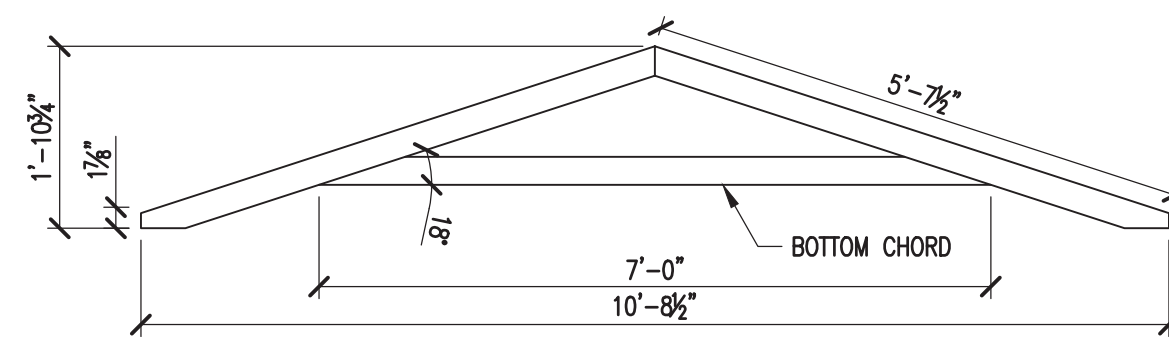
16' UTILITY TRUSS



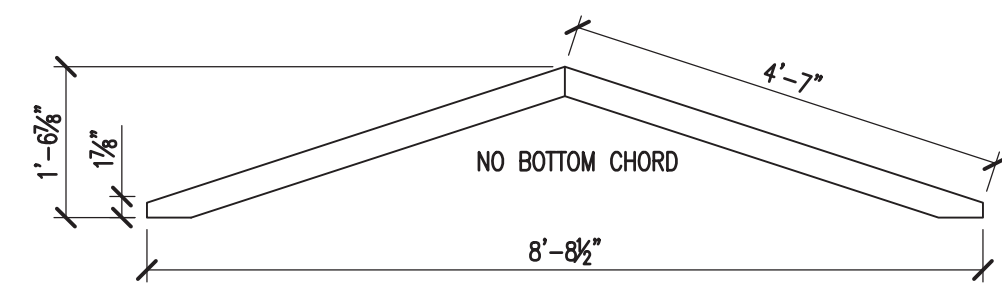
14' UTILITY TRUSS



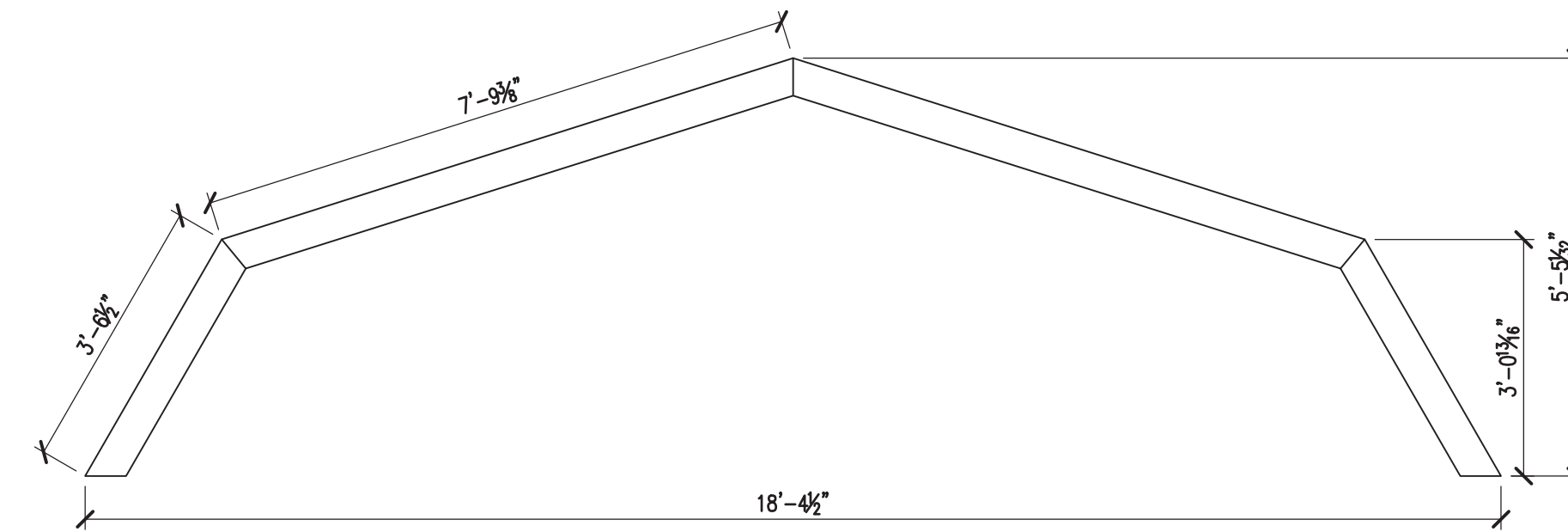
12' UTILITY TRUSS



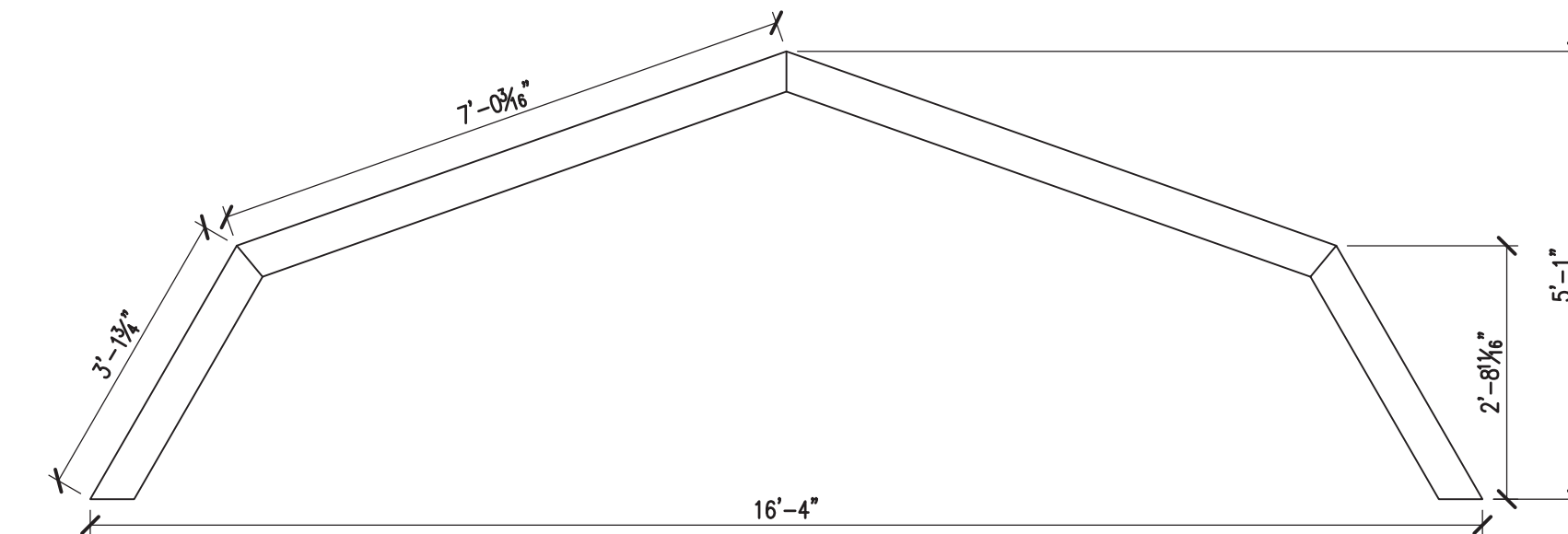
10' UTILITY TRUSS



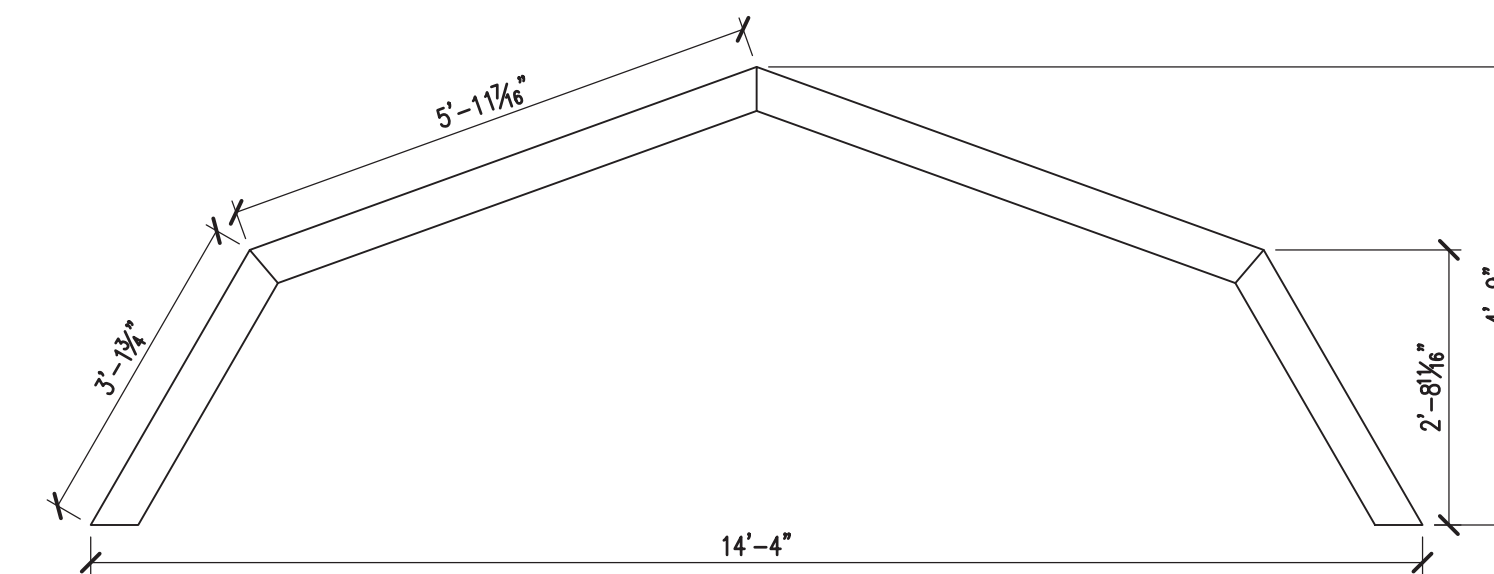
8' UTILITY TRUSS



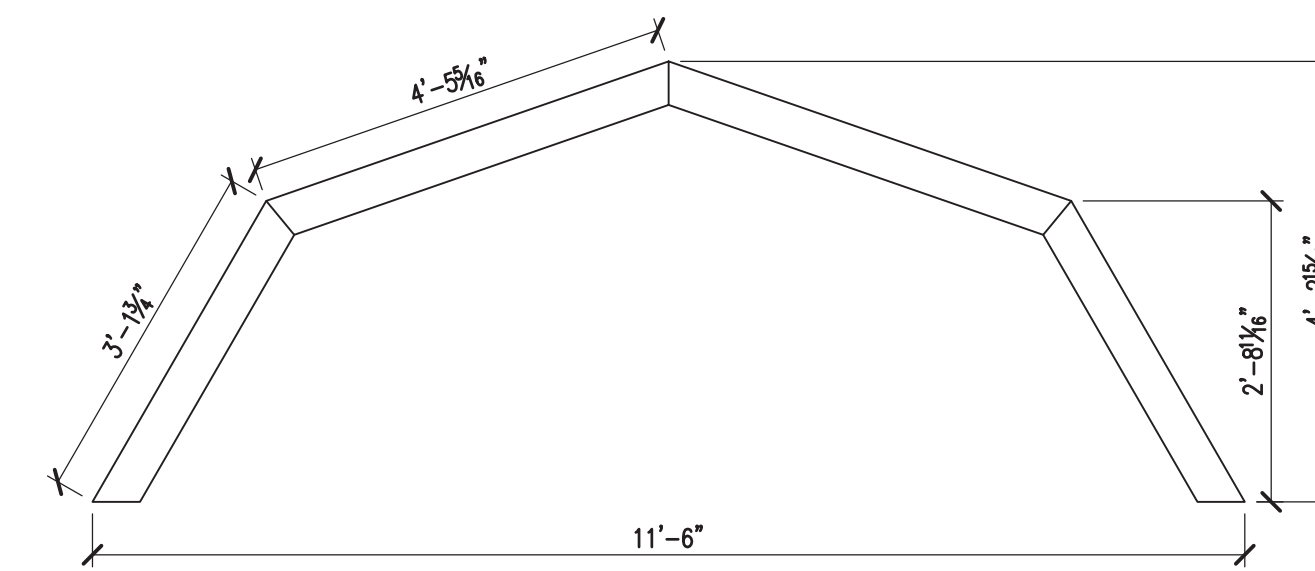
18' LOFTED TRUSS



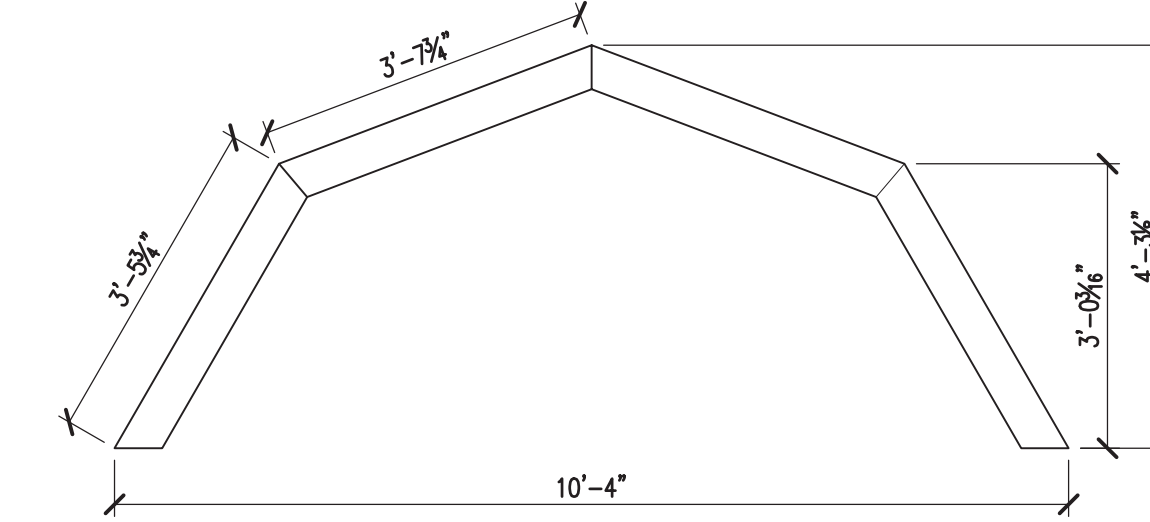
16' LOFTED TRUSS



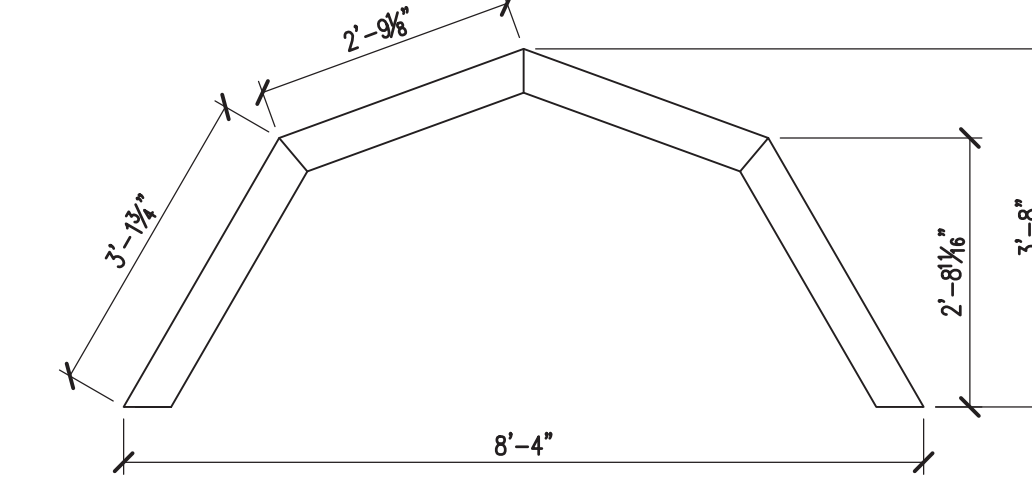
14' LOFTED TRUSS



12' LOFTED TRUSS



10' LOFTED TRUSS



8' LOFTED TRUSS

**TRUSS DESIGN: LRFD V=180mph**  
 ASCE 7-22 83 psf uplift x 0.85(Kd) x 0.85(Kh expC) = 60 psf uplift.  
 add internal pressure 18% = 71 psf design (LRFD)  
 Utility: Lmax=5.25 ft. 2x4@24"; w=142 plf  
 $M = wL^2/8 \times 12 = 5871$  in-lbs;  $s = 3.06$  in<sup>3</sup>; fb=1919psi  
 Fb(LRFD)=3000 psi - this value is met by lumber.

Lofted: Lmax=7.01 ft; 16' truss@16" o/c; w= 95 plf;  
 M=7002 in-lbs; fb= 2288 psi < 3000 psi LRFD

Wall Calculations: 5/8" LP nailed 6" edges, 10" interior, 2x4x7ft@16"o/c;  
 Pressure= 58.1 psfExternal= 10.5 psfInternal Total p= 68.6 psf  
 $I = 18.74$  in<sup>4</sup> per 16" o/c; S=6.03 in<sup>3</sup>.

$M = 68.6(1.33)(7^2)/8 \times (12) = 6657.1$  in-lbs;  
 fb= 1104 psi < 3000 psi LRFD OK

PROJECT: UTILITY SHED

PRODUCT CUT SHEETS

DON VAN GERVE, P.E.  
 SPECIALTY STRUCTURAL ENGINEER

ENGINEERING SERVICES PROVIDED FOR:  
 PREMIER PORTABLE BUILDINGS  
 317 EAST STATE LINE ROAD  
 SOUTH FULTON, TN 38257  
 WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
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DATE: 2.6.25  
 PROJECT NO.: 25025  
 DRAWING BY: JH  
 CHK BY: DVG  
 DWG NO.: A-10

