



DIY Pole Barns & Supplies  
9232 Hogpath Road Arcanum, OH 45304  
Business: 937-547-9100 Fax: 937-547-9122

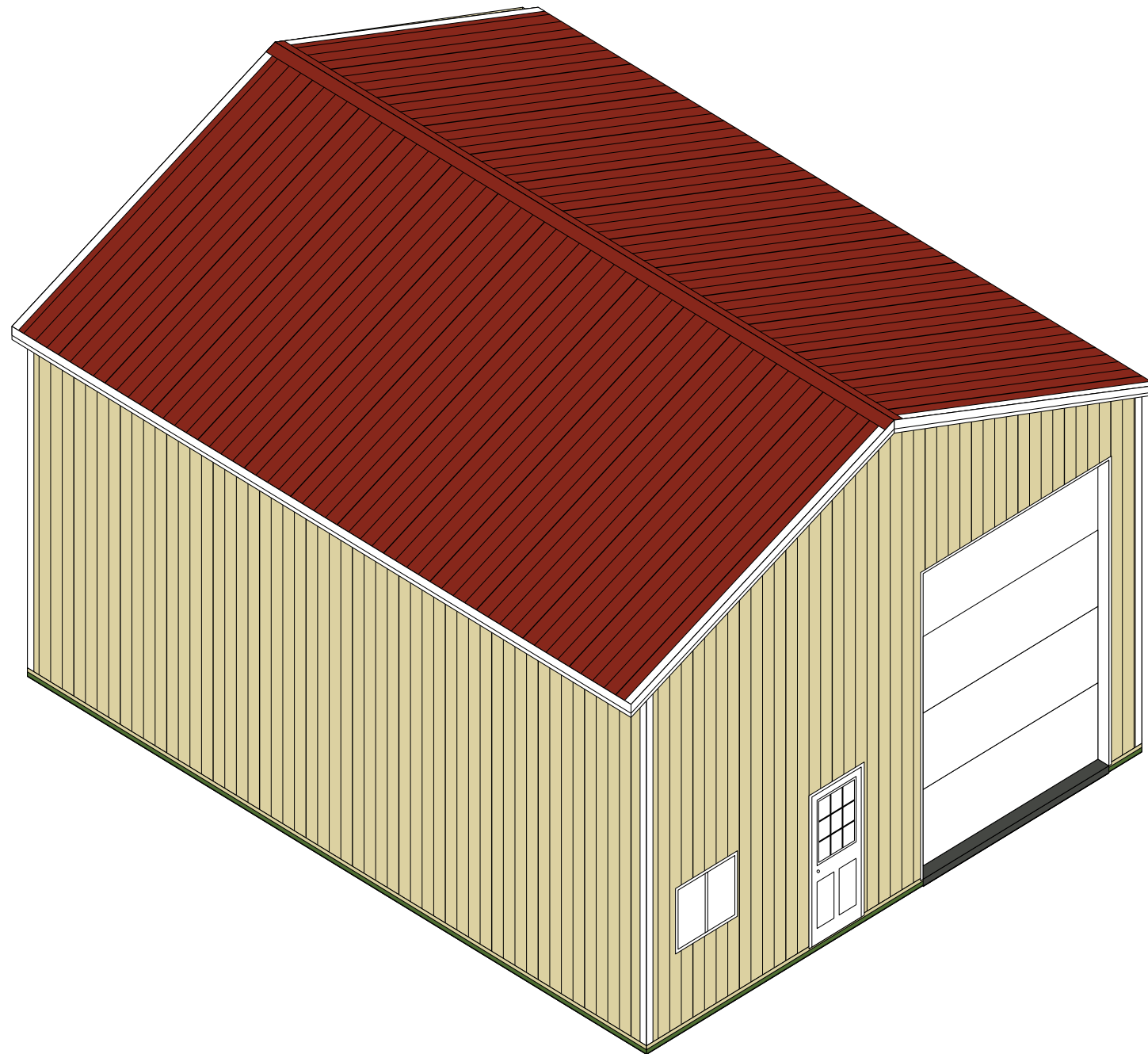
**Building Specifications**

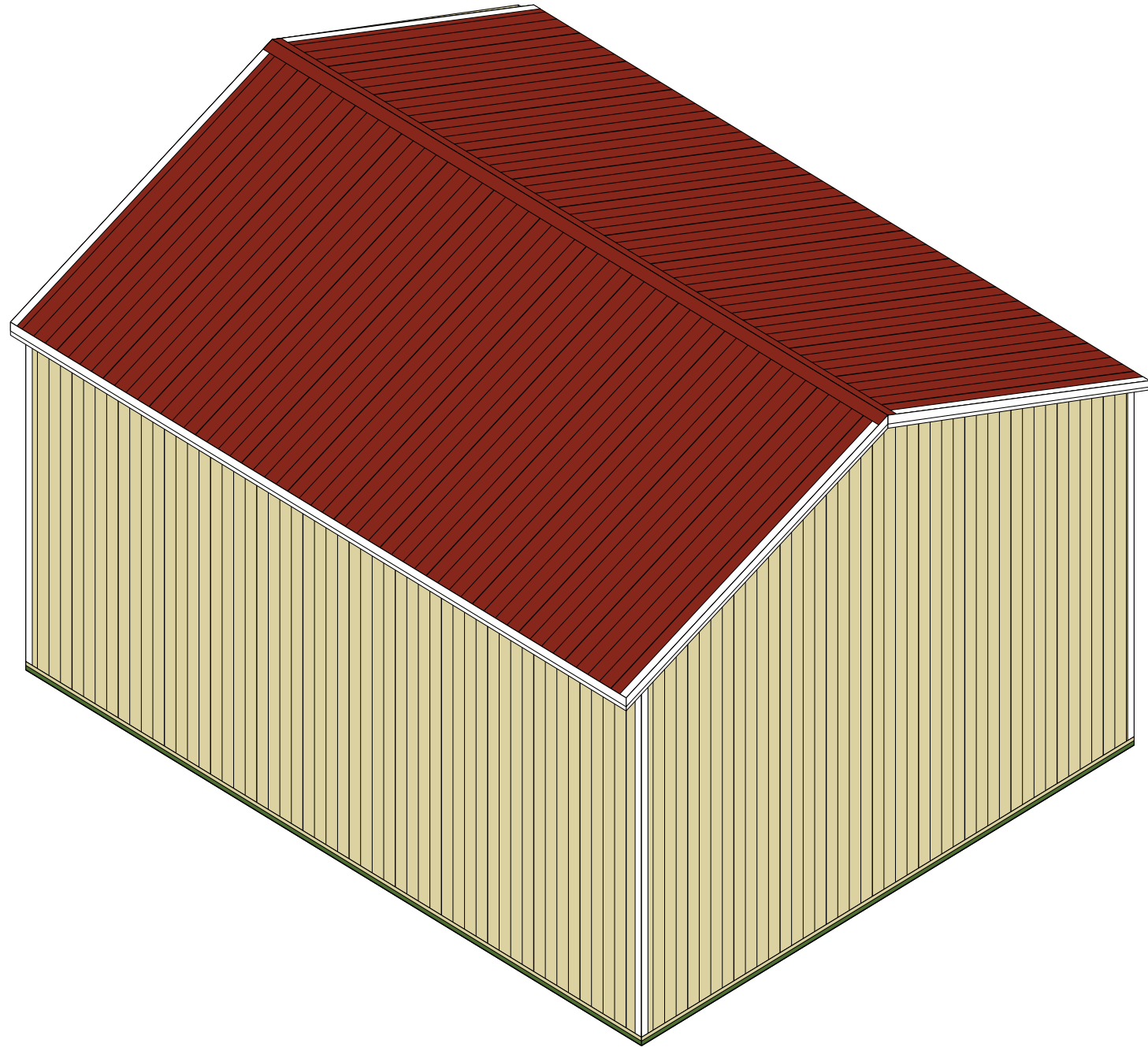
Building Width	32'
Building Length	40'
Building Height	16'
Eave Overhang	12 in.
Gable Overhang	0 in.
Pitch of Roof	4 in./12
Style of Building	Post Frame

Customer Name	Aaron Whaley
Customer Address	256 Walter Mason Lane Spring Lake, NC 28390
Customer Phone	Call 910-797-7065

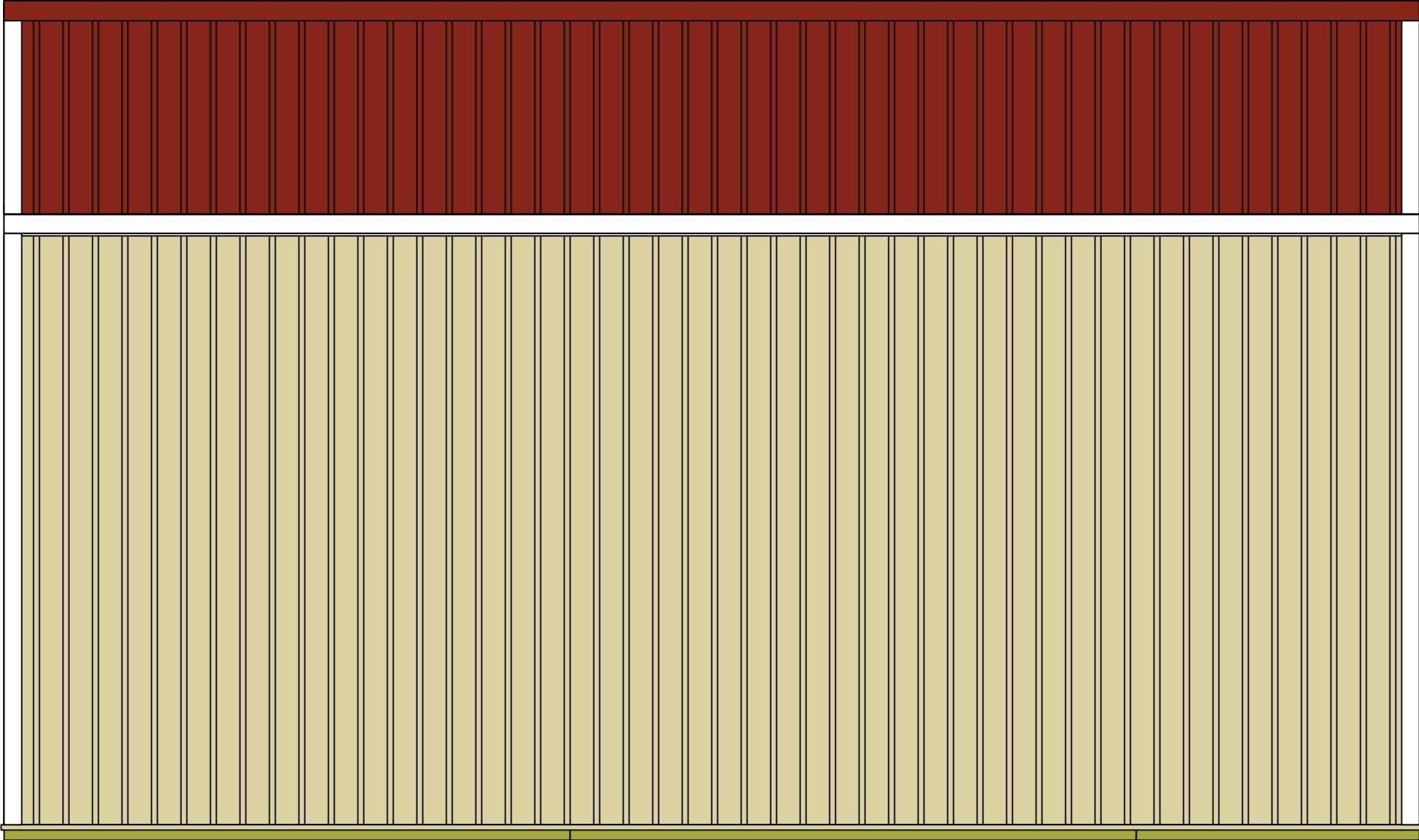
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Note: The reports, elevations, diagrams, and drawings included in this estimate are not architectural blueprints. The builder is responsible for structural integrity, proper usage of materials, and adhering to local building codes. Always be sure to verify the materials and drawing packet with your local building inspector, engineer, or architect. Every effort has been made to create accurate and detailed drawings and reports. However, due to the number of combinations of materials that can be used, there exists the possibility for errors. This packet is an estimate and should be reviewed by the builder before starting the project. Symun Systems, Inc accepts no responsibility for engineering, building codes violations, or the structural integrity of the building.

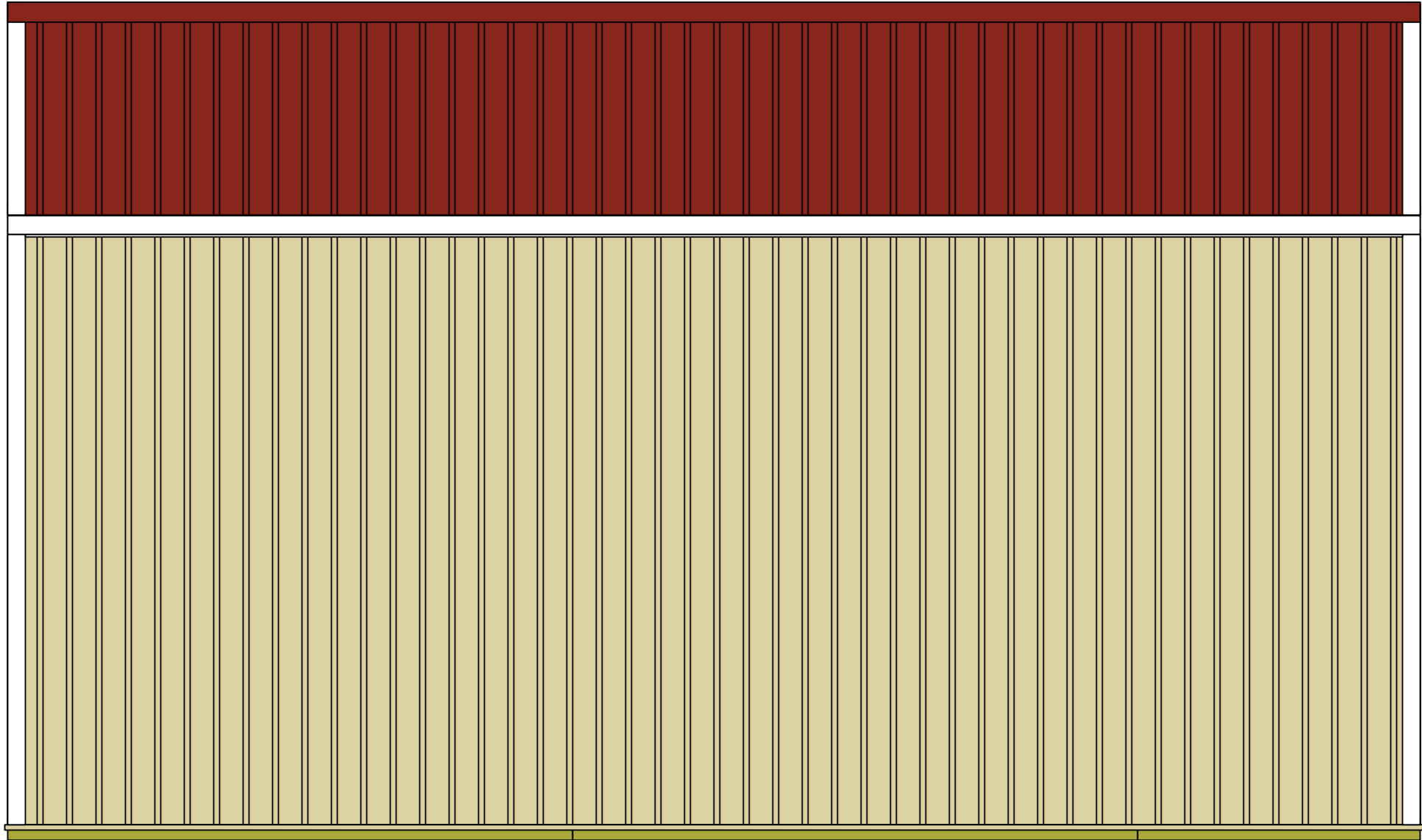




**SOUTH EAST SIDE-EAVE SIDE 2 ELEVATION**



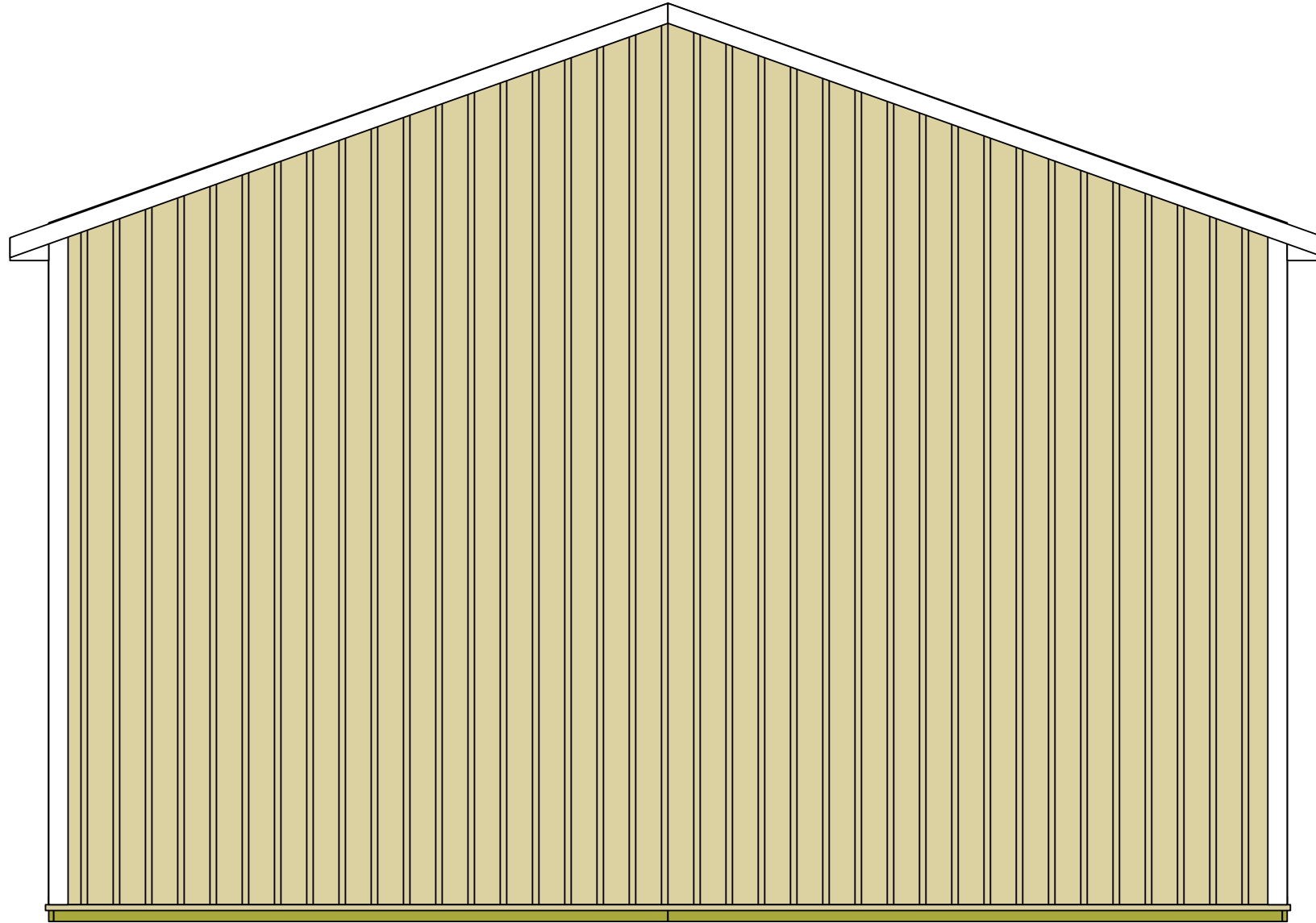
**NORTH WEST SIDE-EAVE SIDE 1 ELEVATION**



**NORTH EAST SIDE-GABLE SIDE 2 ELEVATION**



**SOUTH WEST SIDE-GABLE SIDE 1 ELEVATION**



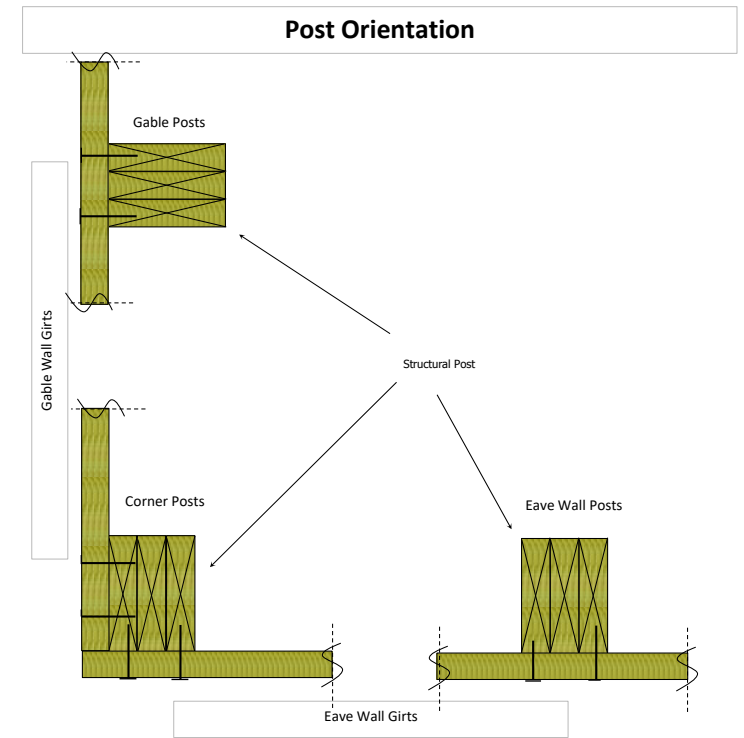
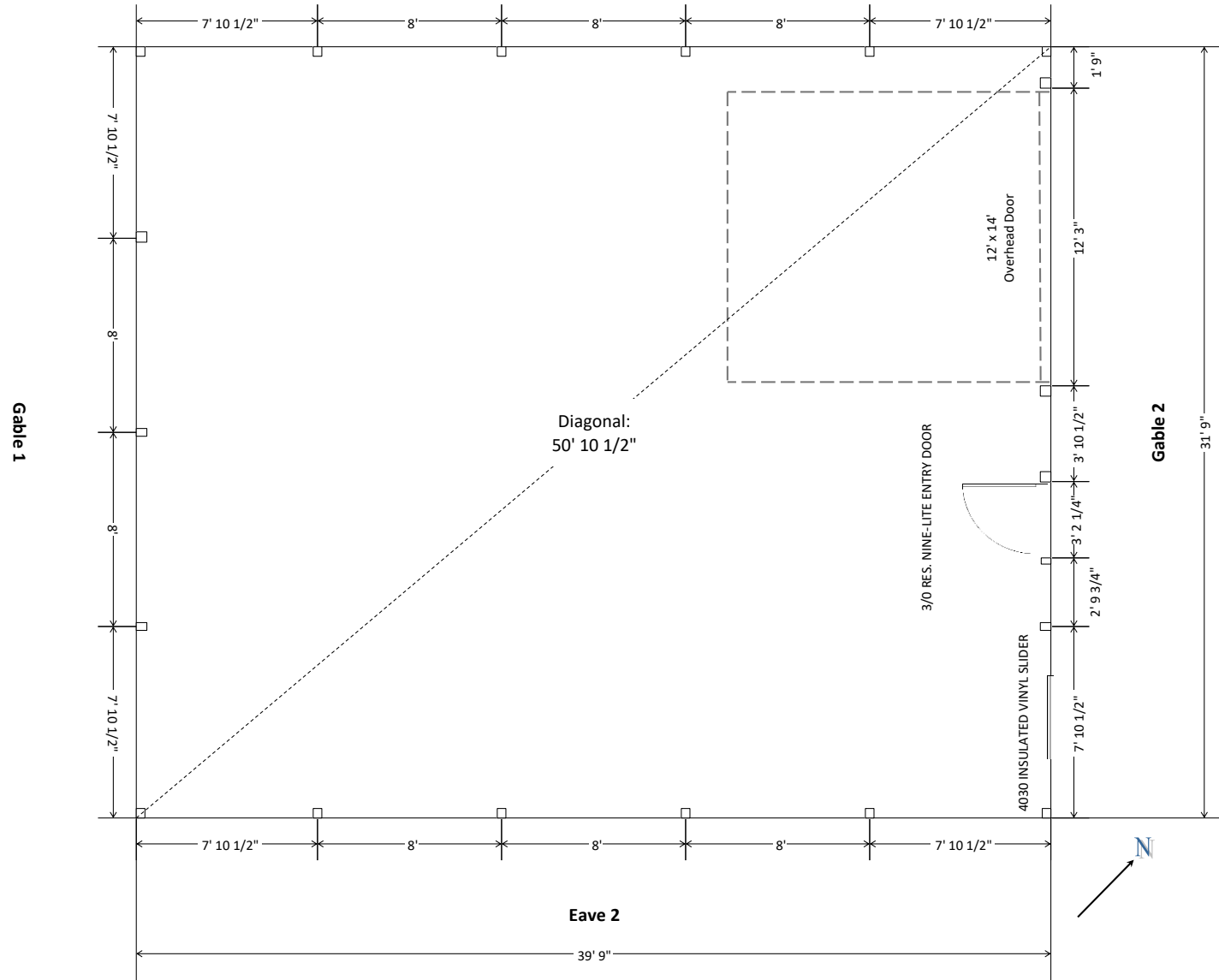
With Overhang Work Flow

Order	Work Flow
1	Level Pad
2	Square batten boards and string
3	Punch Holes
4	Install Footers
5	Set Posts
6	Install Skirtboards
7	Install highest wallgirt that can be reached with a ladder
8	Install rest of wall girts
9	Install truss carrier
10	Install wall bracing 2x4x16
11	Install Truss Blocking
12	Install Trusses (ensuring building squariness)
13	Install purlins
14	Install Truss Bracing
15	Install diagonal bracing
16	Frame out openings
17	Install windows and walkdoors
18	Install Ratguard
19	Install F & J trim
20	Install soffit
21	Install fascia
22	Install Roof Edge
23	Install roof panels
24	Install roof outside corners (rake trim)
25	Install Ridge Vent
26	Install Ridge Cap
27	Trim around Openings
28	Install Siding
29	Install Overhead Doors or Sliding Doors

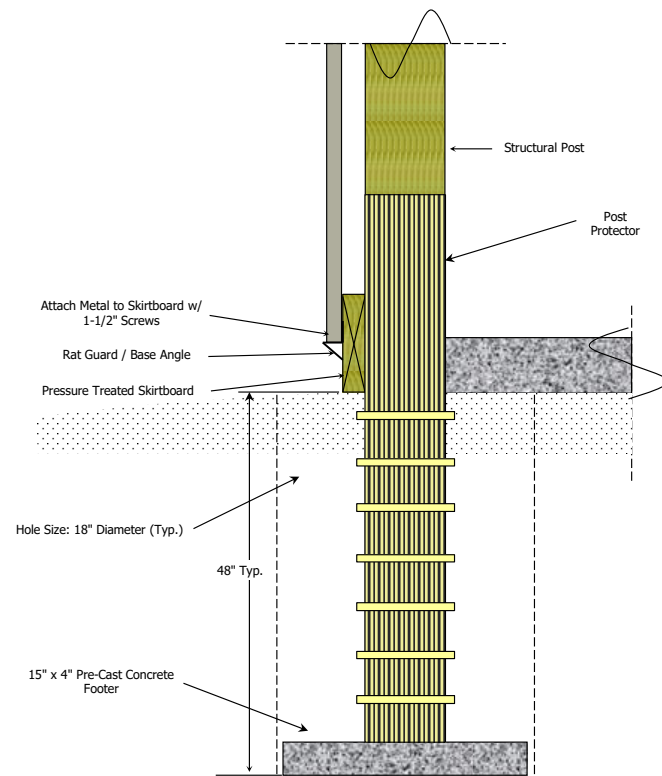


**POLE LAYOUT**  
Residential Use, 1280 sq. ft.

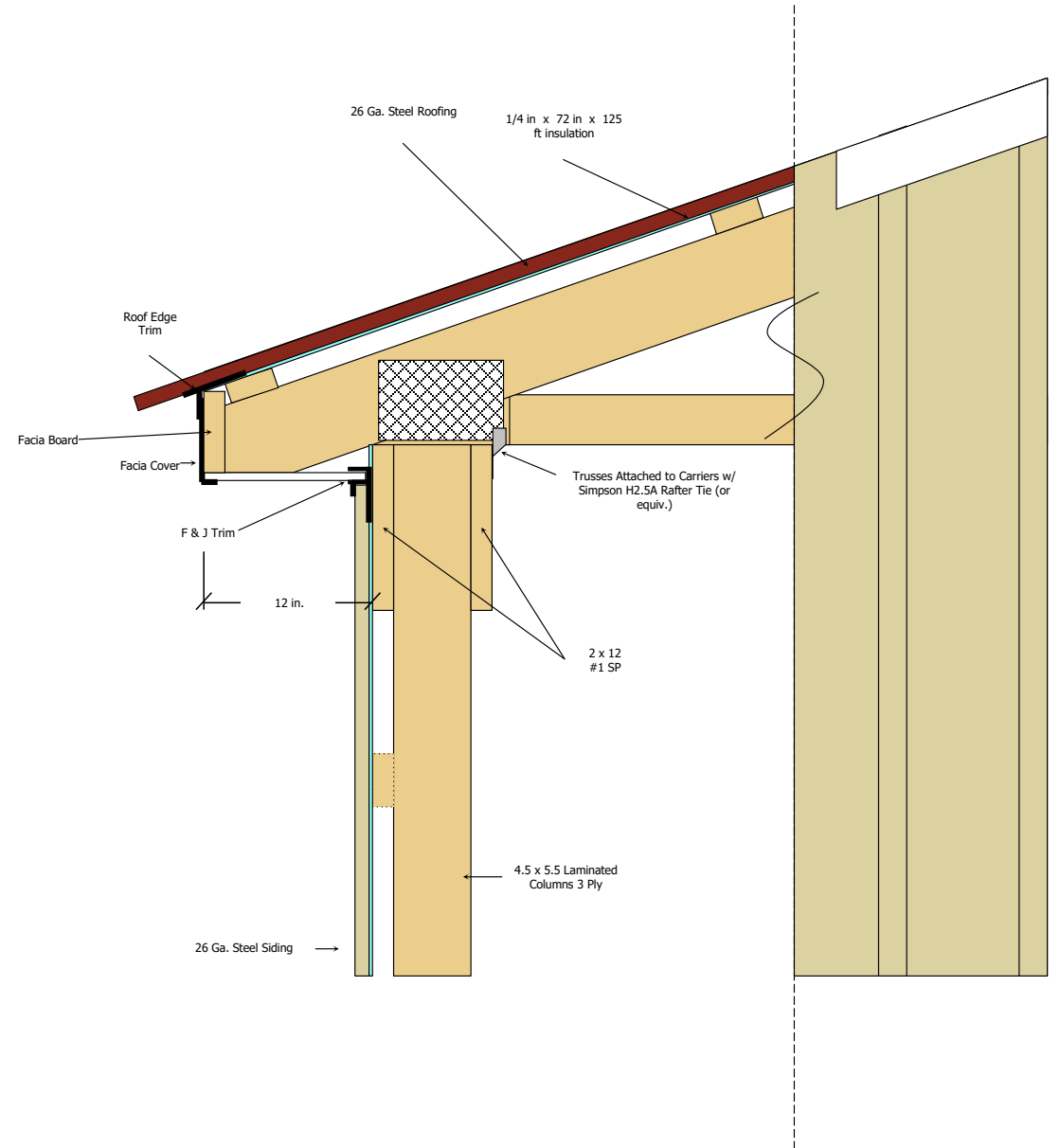
**Eave 1**



## Footing / Skirtboard Detail



## Overhang Detail



## EAVE CROSS SECTIONS

ROOF LAYER 1: FOIL / DOUBLE BUBBLE / POLY-ROLL 1/4 IN X 72 IN X 125 FT  
 ROOF LAYER 2: CRIMSON RED G-RIB #1 - 26 GA. STEEL PANEL

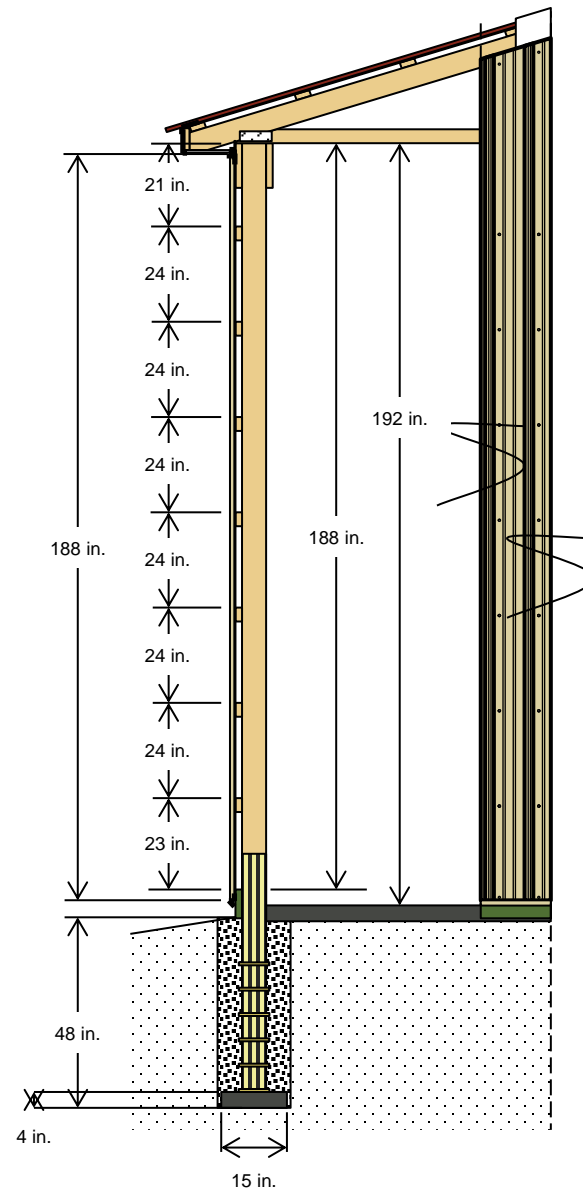
PURLINS: 2 X 4 CONSTRUCTION GRADE FASTENED LAYING FLAT  
 SUB FACIA: 2 X 6 CONSTRUCTION GRADE  
 FACIA COVERING: BRITE WHITE STEEL 1 1/2 IN. X 5 1/2 IN. ANGLE 6 X 10 FT 0 IN  
 UNDEREAVE: BRITE WHITE CENTER VENT PERFORATED G-RIB 36 IN X 11.5 IN

CORNER POSTS: LAMINATED COLUMNS 3 PLY 4.5 X 5.5  
 INTERMEDIATE POSTS: LAMINATED COLUMNS 3 PLY 4.5 X 5.5 SPACING 8 FT O.C.  
 POST PROTECTOR BRAND SLEEVES INSTALLED ON EVERY POST  
 EXTERIOR CARRIER: 2 X 12 #1 SP  
 INTERIOR CARRIER: 2 X 12 #1 SP  
 EXTERIOR WALL GIRTS: CONSTRUCTION GRADE 2 X 4  
 WALL LAYER 1: FOIL / DOUBLE BUBBLE / POLY-ROLL 1/4 IN X 72 IN X 125 FT  
 WALL LAYER 2: LIGHT STONE G-RIB #1 - 26 GA. STEEL PANEL

EXTERIOR SKIRT BOARD: TREATED 2 X 8

**SIDING BEGINS 2 3/4 IN. BELOW THE TOP OF SKIRT BOARD**

EARTH GRADE BEGINS 7 IN. BELOW THE TOP OF SKIRT BOARD



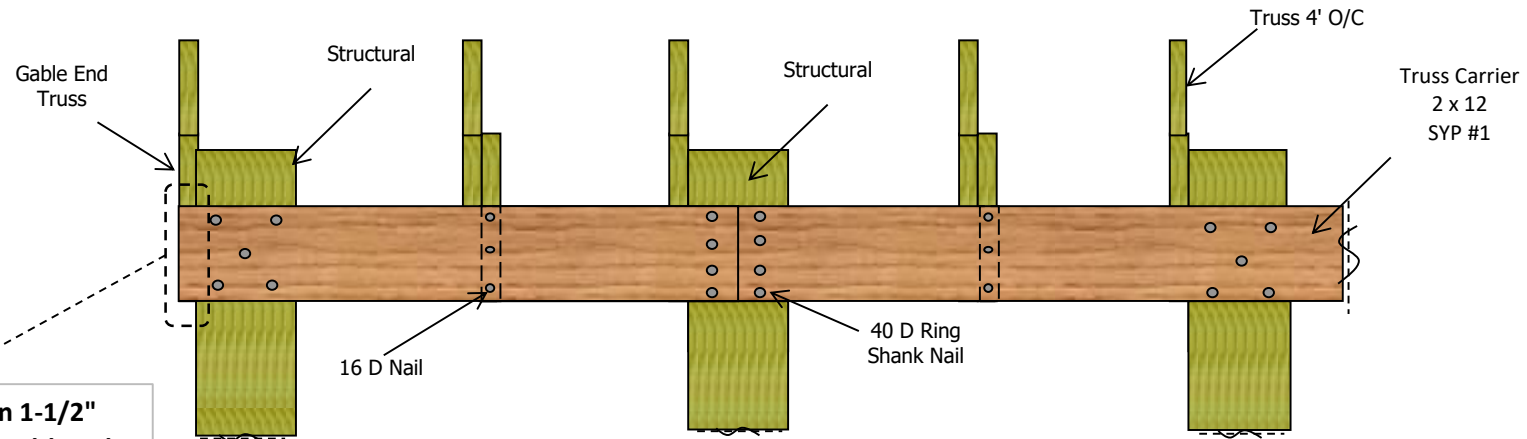
4/12 PITCH TRUSS SYSTEM WITH A NON-STANDARD HEEL (HEEL HEIGHT: 0-6-3 OR 6 3/16 IN.)  
 TRUSS SPACING: 48 IN. O.C.  
 TRUSS LOADING INFORMATION: T CLL/TCDL/BCLL/BCDL 25-10-0-5  
 TOTAL TRUSS LOADING = 40 P.S.F.  
 BRACE PER TRUSS MANUFACTURER'S RECOMMENDATIONS

INTERIOR FINISHED FLOOR HT. WILL BE 4 in. BELOW THE TOP OF THE SKIRT BOARD  
 4 IN. CONCRETE FLOOR W/STRUCTURAL STRENGTH - 3500 P.S.I.  
 UNDISTURBED SOIL OR COMPACTED SAND FILL BACKFILL 16 IN. HOLE WITH SAND/GRAVEL FILL & COMPACT  
 PIER FOOTING: PRECAST 5000 P.S.I. 15 IN. X WIDE 4 IN. THICK CONCRETE PAD

DIY DOES NOT PROVIDE CONCRETE FLOOR. SOIL BEARIN PRESSURE IS ASSUMED.

## Truss Block Detail

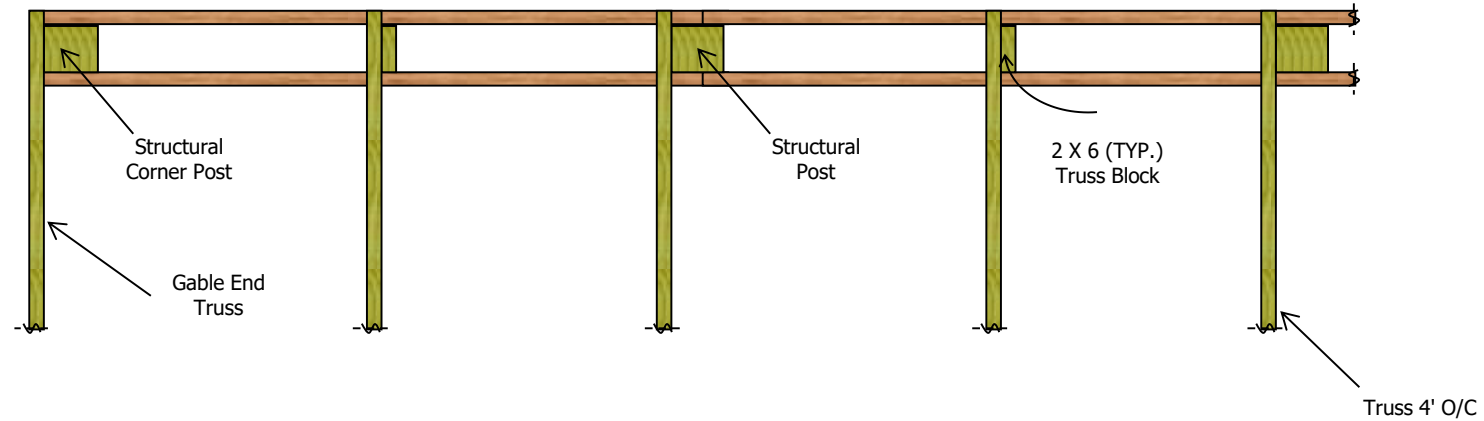
### Eave View



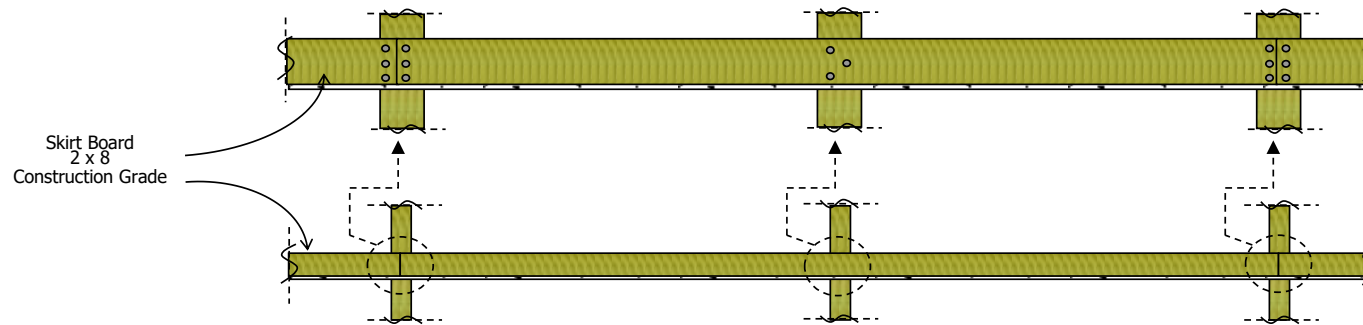
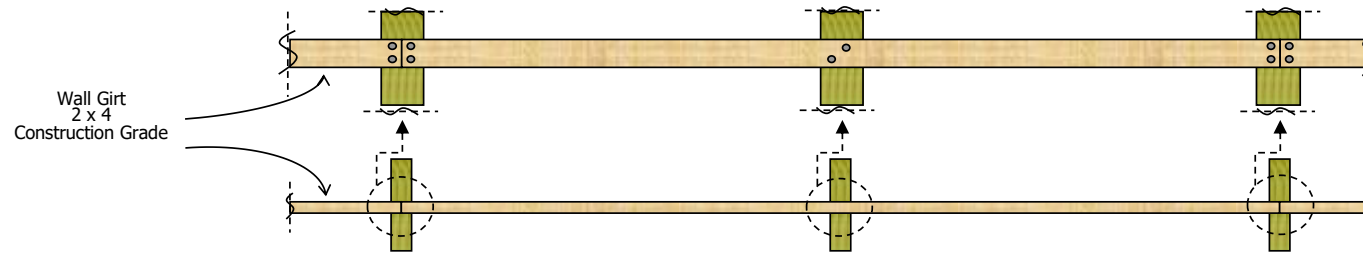
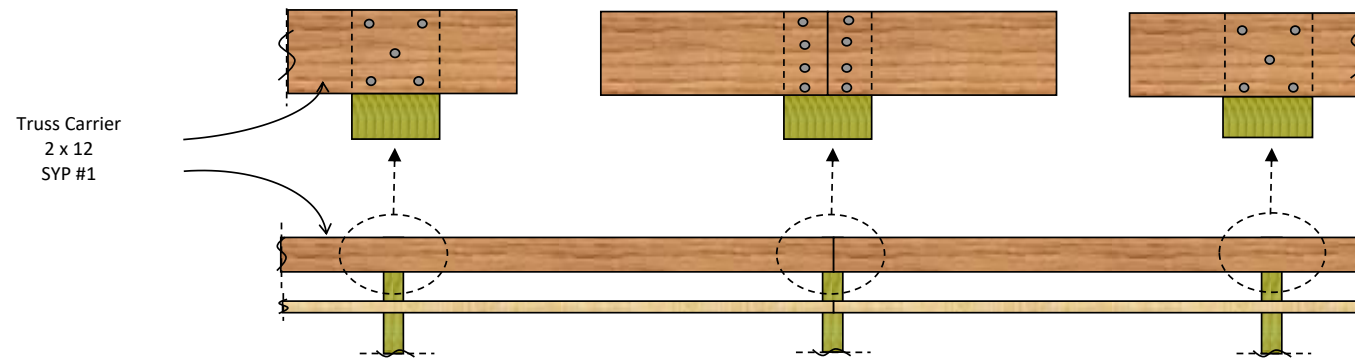
**NOTE:** Truss carriers run 1-1/2" past structural corner post to set gable trusses on

**NOTE:** (5) 16D nails nailed through the truss into the truss block

### Overhead View

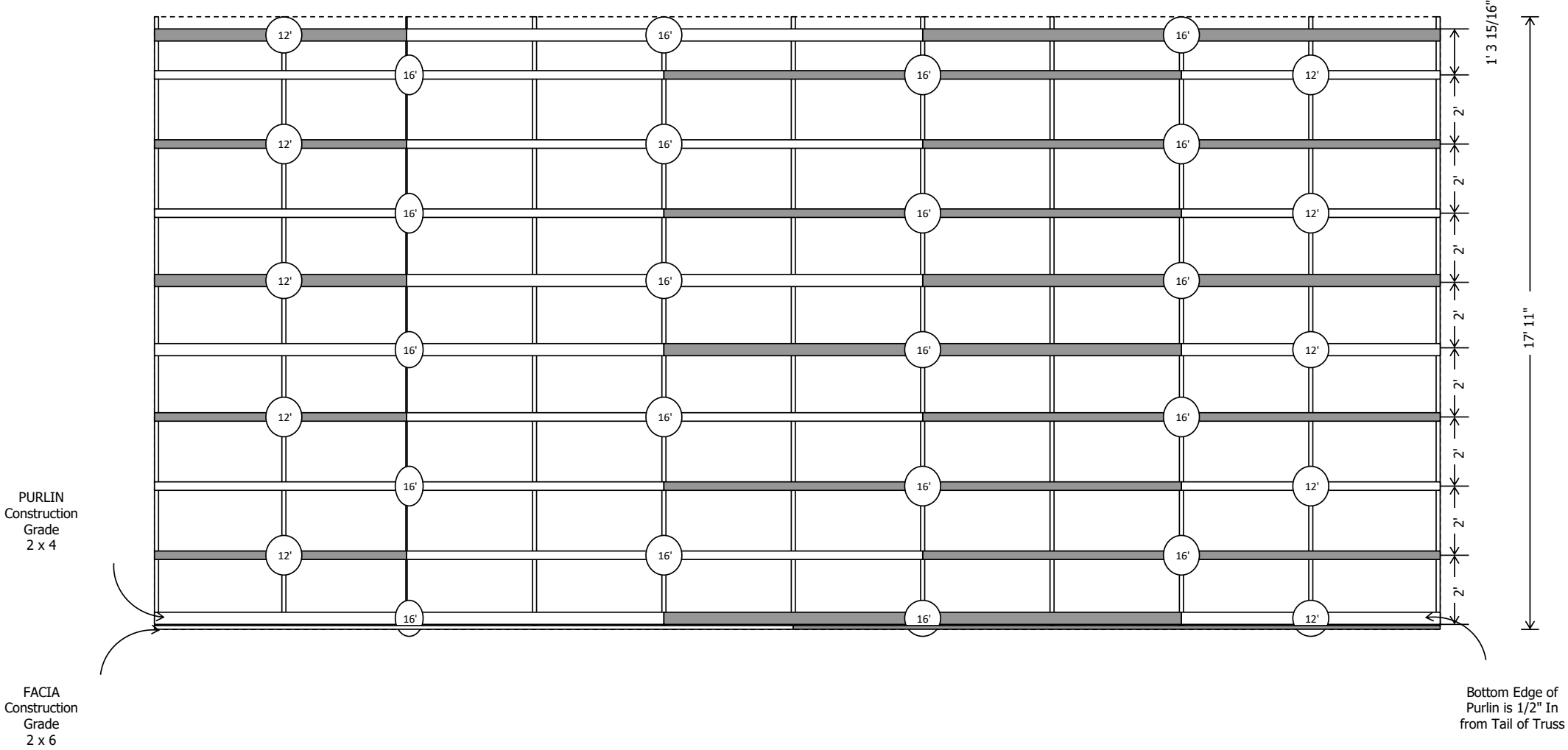


# Truss Carriers, Wall Girts, & Skirt Boards Nailing Pattern

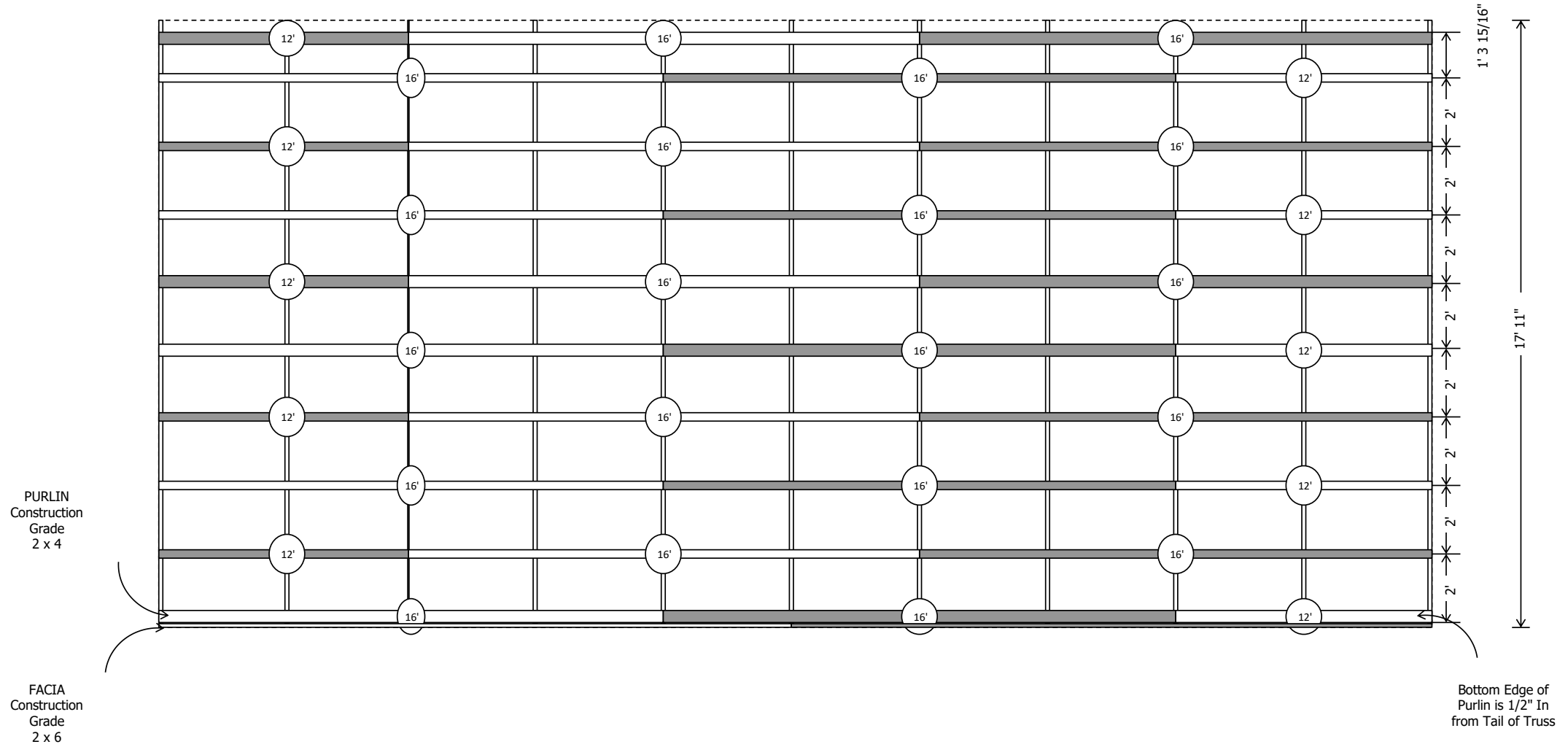


NOTE:  
Nailing pattern for 2x4 wall girts is the same as  
nailing patten for 2x4 purlins

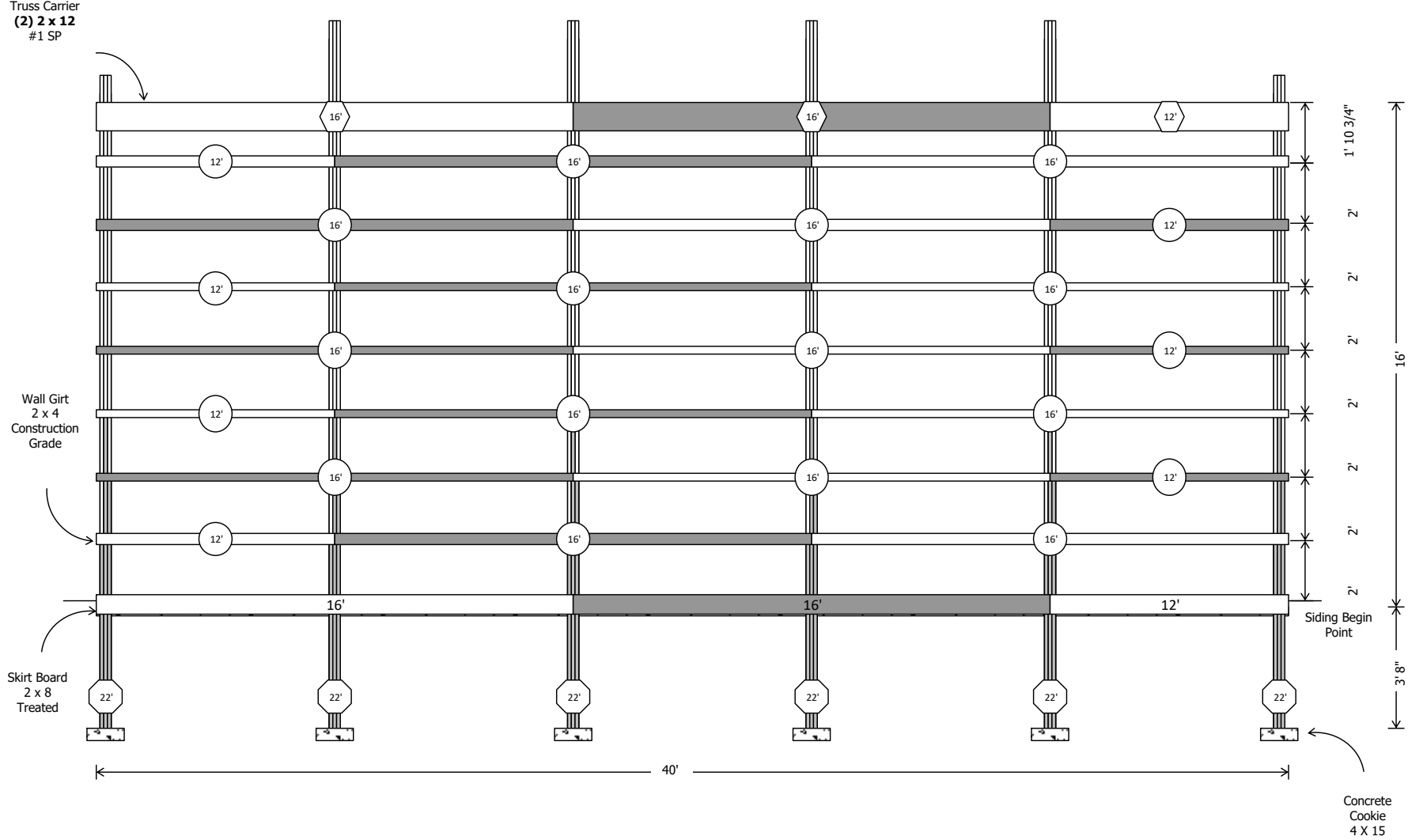
# SOUTH EAST SIDE-EAVE SIDE 2 TRUSS AND PURLIN LAYOUT



# NORTH WEST SIDE-EAVE SIDE 1 TRUSS AND PURLIN LAYOUT

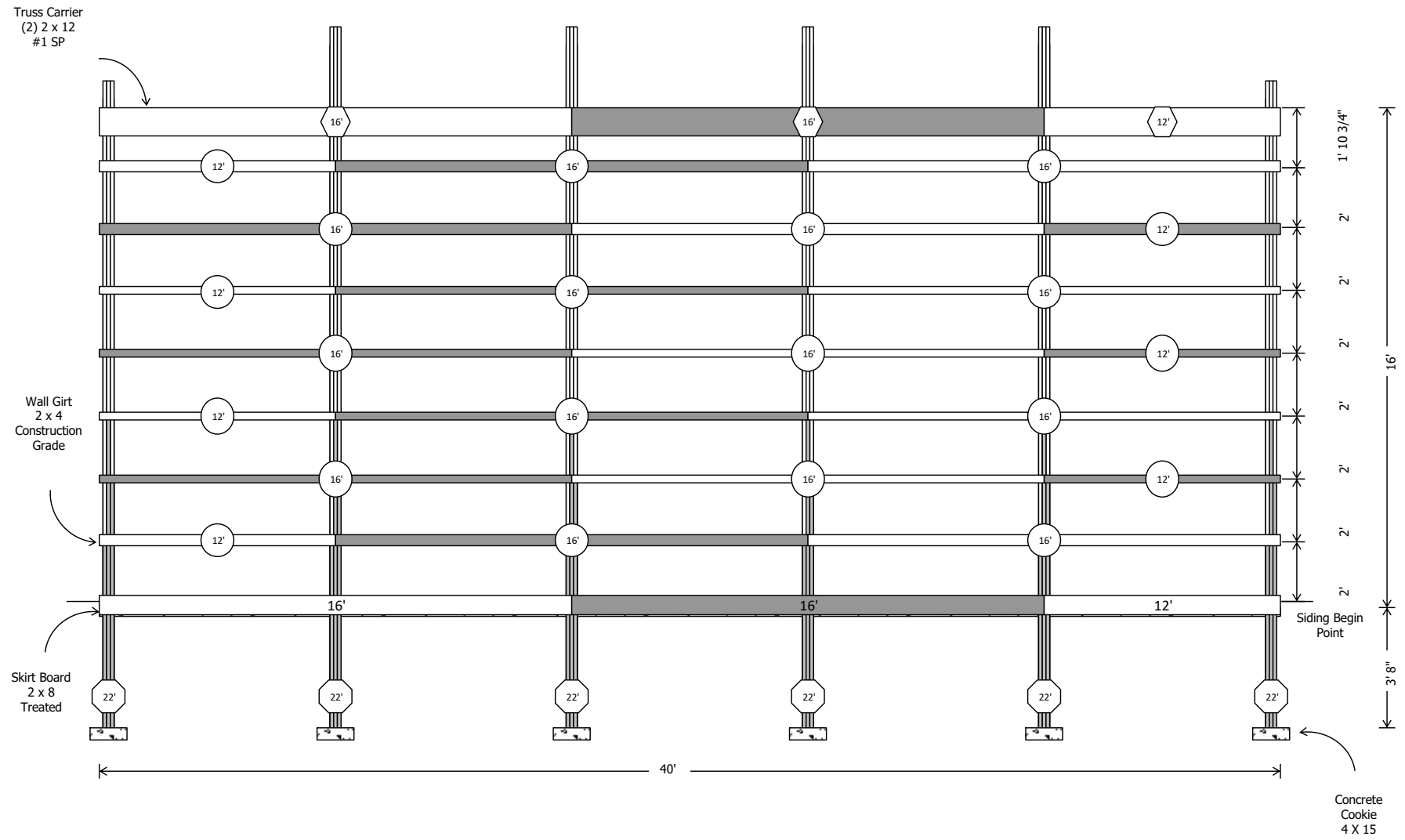


# SOUTH EAST SIDE-EAVE SIDE 2 WALL GIRT VIEW



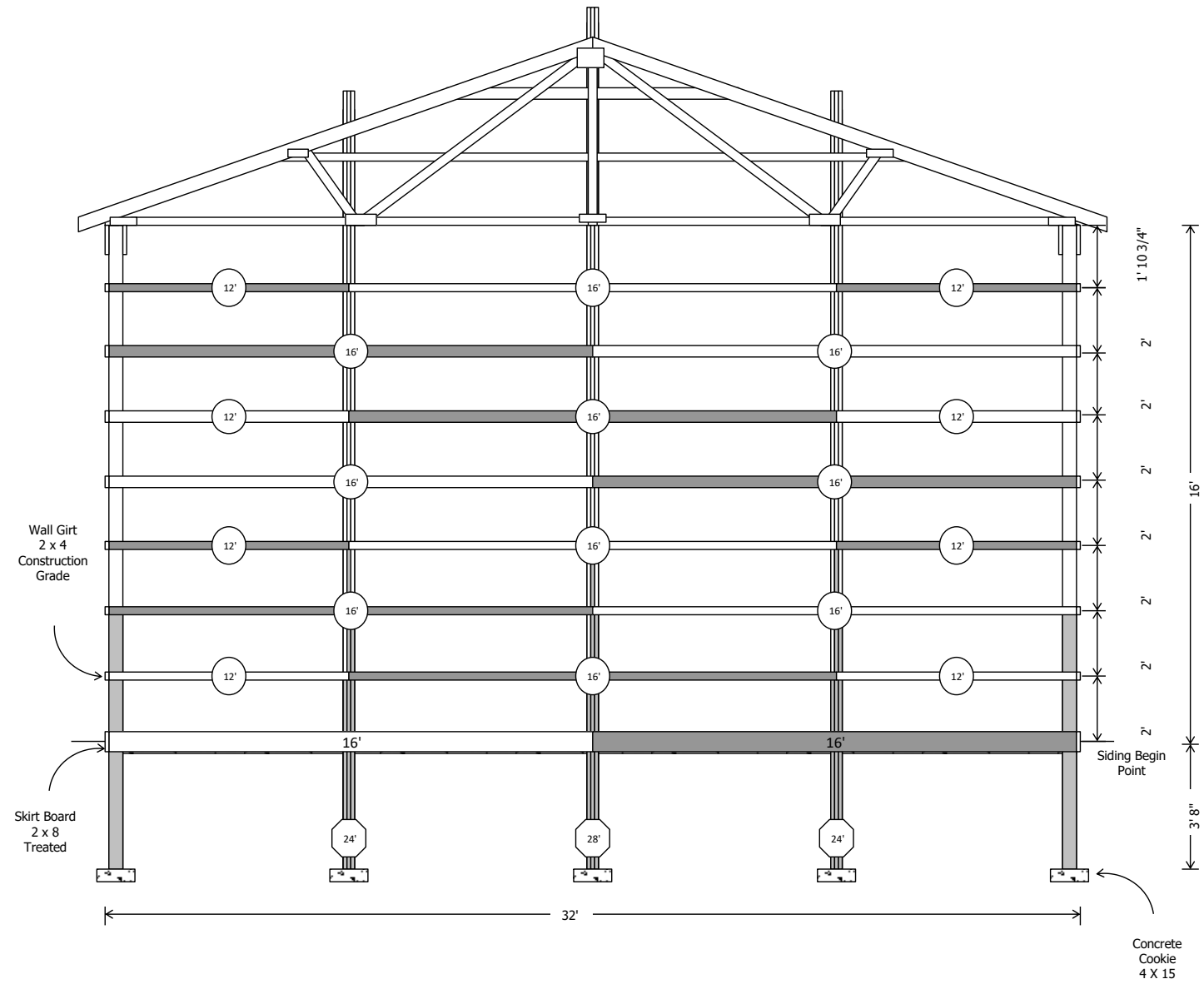


# NORTH WEST SIDE-EAVE SIDE 1 WALL GIRT VIEW

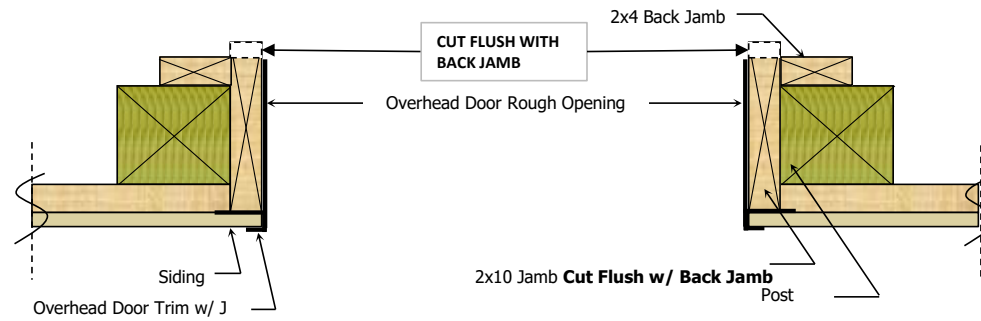




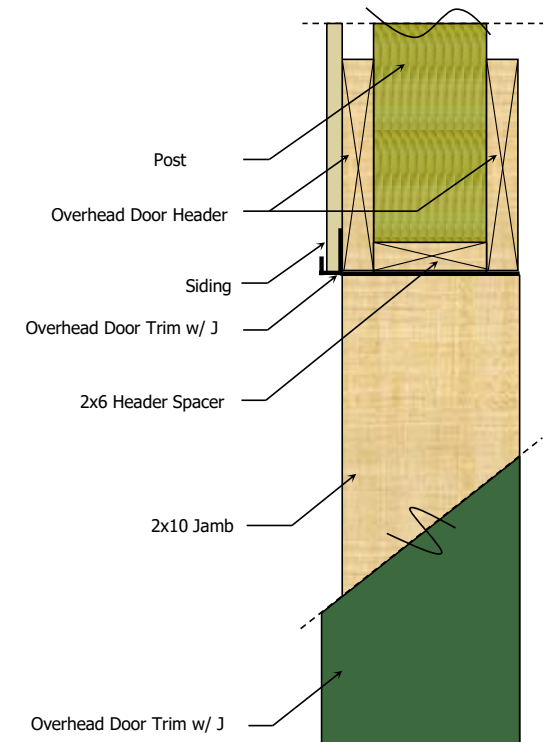
# SOUTH WEST SIDE-GABLE SIDE 1 WALL GIRT VIEW



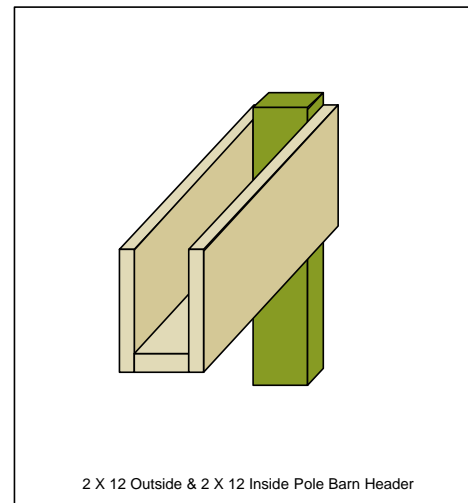
## OVERHEAD DOOR JAMB DETAIL



## TYPICAL OVERHEAD DOOR CROSS SECTION (EAVE & GABLE)



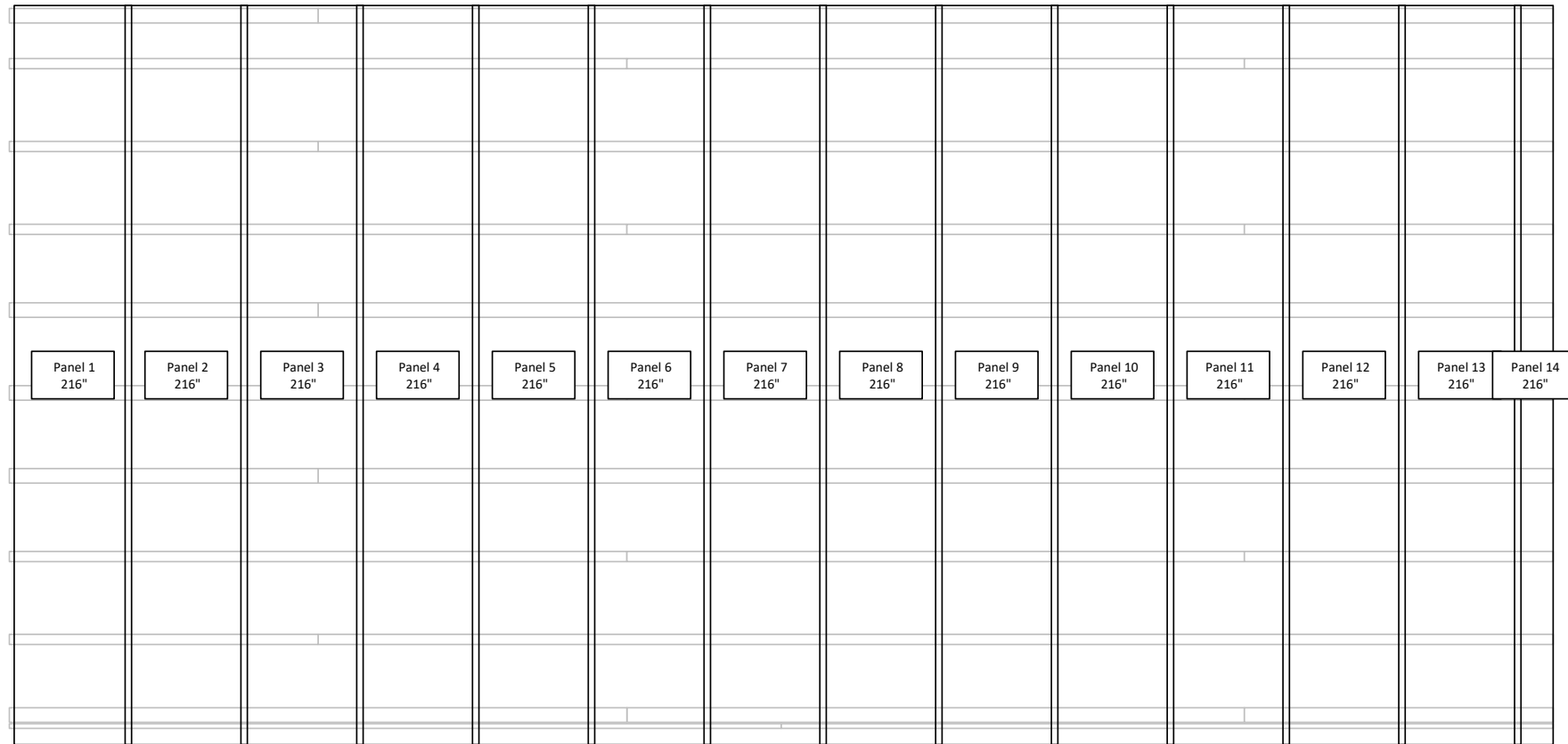
## Header Details



Header Detail for Overhead Door # 1 on Gable2

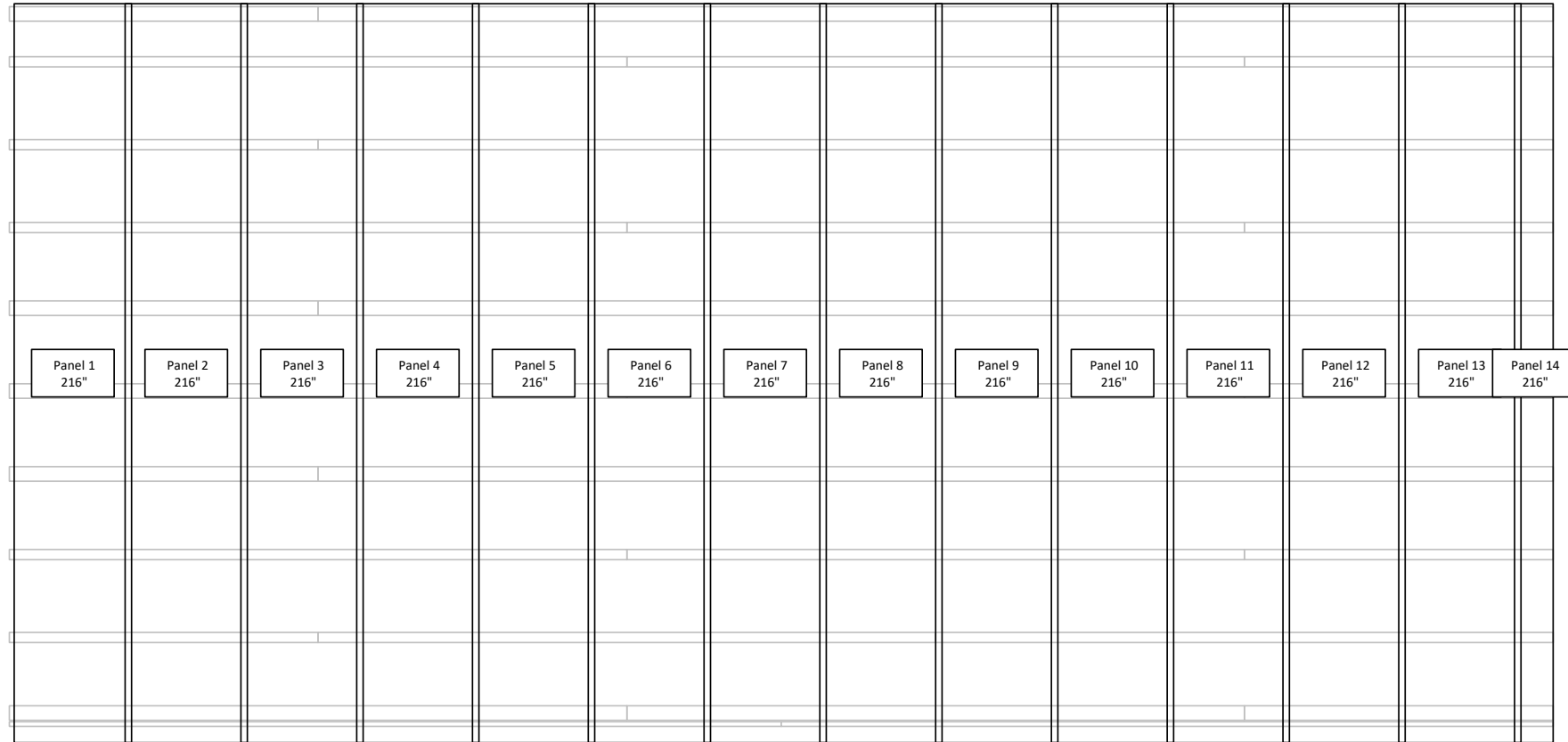


## SOUTH EAST SIDE-EAVE SIDE 2 STEEL ROOF EAVE2



Shift the vertical starting point of the first panel to 1 1/2 in. from the outside corner of the building so there is no panel rib & steel corner trim conflict at the other end. The rib spacing will also be balanced.

# NORTH WEST SIDE-EAVE SIDE 1 STEEL ROOF EAVE1



Shift the vertical starting point of the first panel to 1 1/2 in. from the outside corner of the building so there is no panel rib & steel corner trim conflict at the other end. The rib spacing will also be balanced.

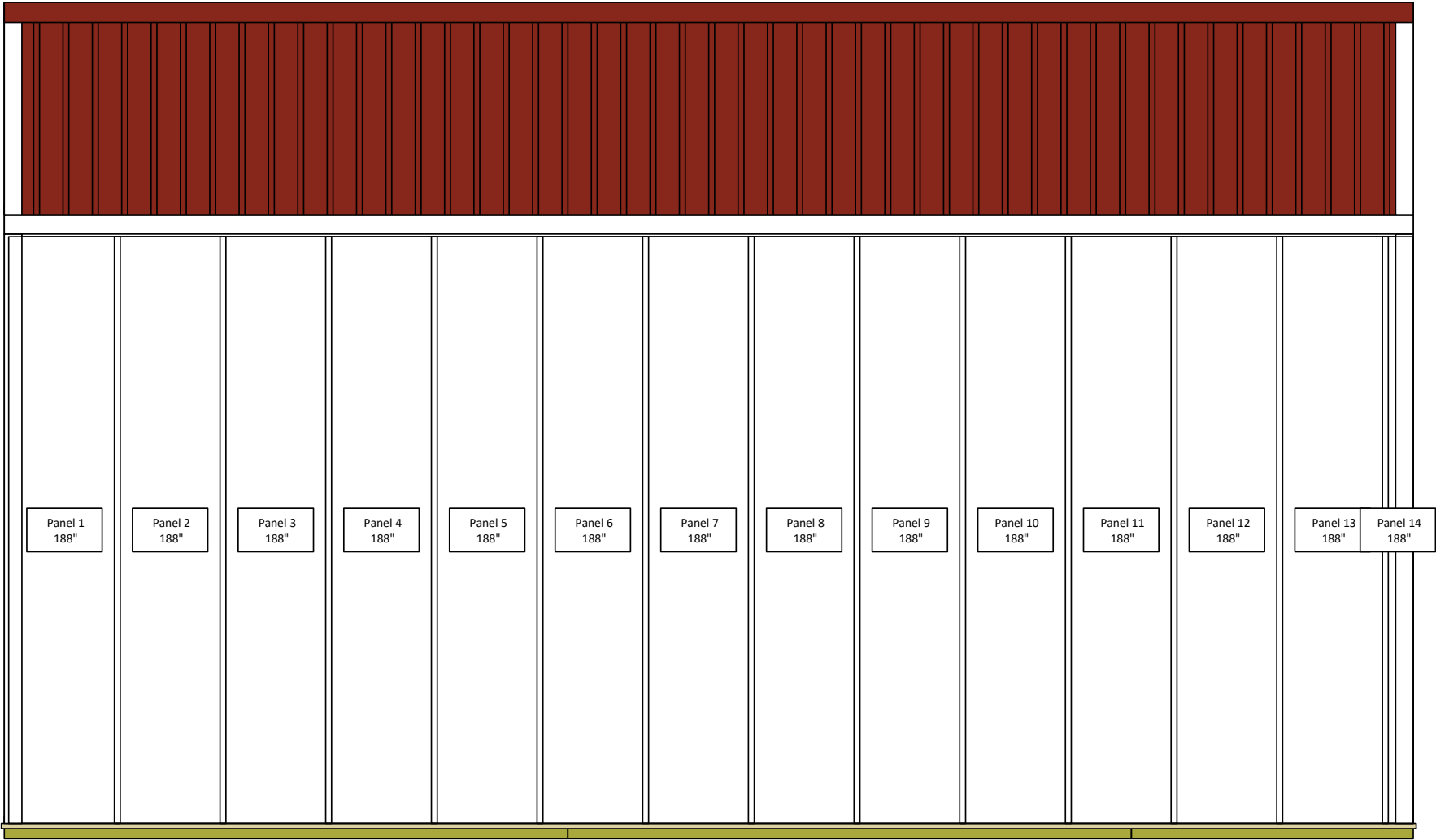
## SOUTH EAST SIDE-EAVE SIDE 2 STEEL WALL LAYOUT



Shift the vertical starting point of the first panel to 1 1/2 in. from the outside corner of the building so there is no panel rib & steel corner trim conflict at the other end. The rib spacing will also be balanced.

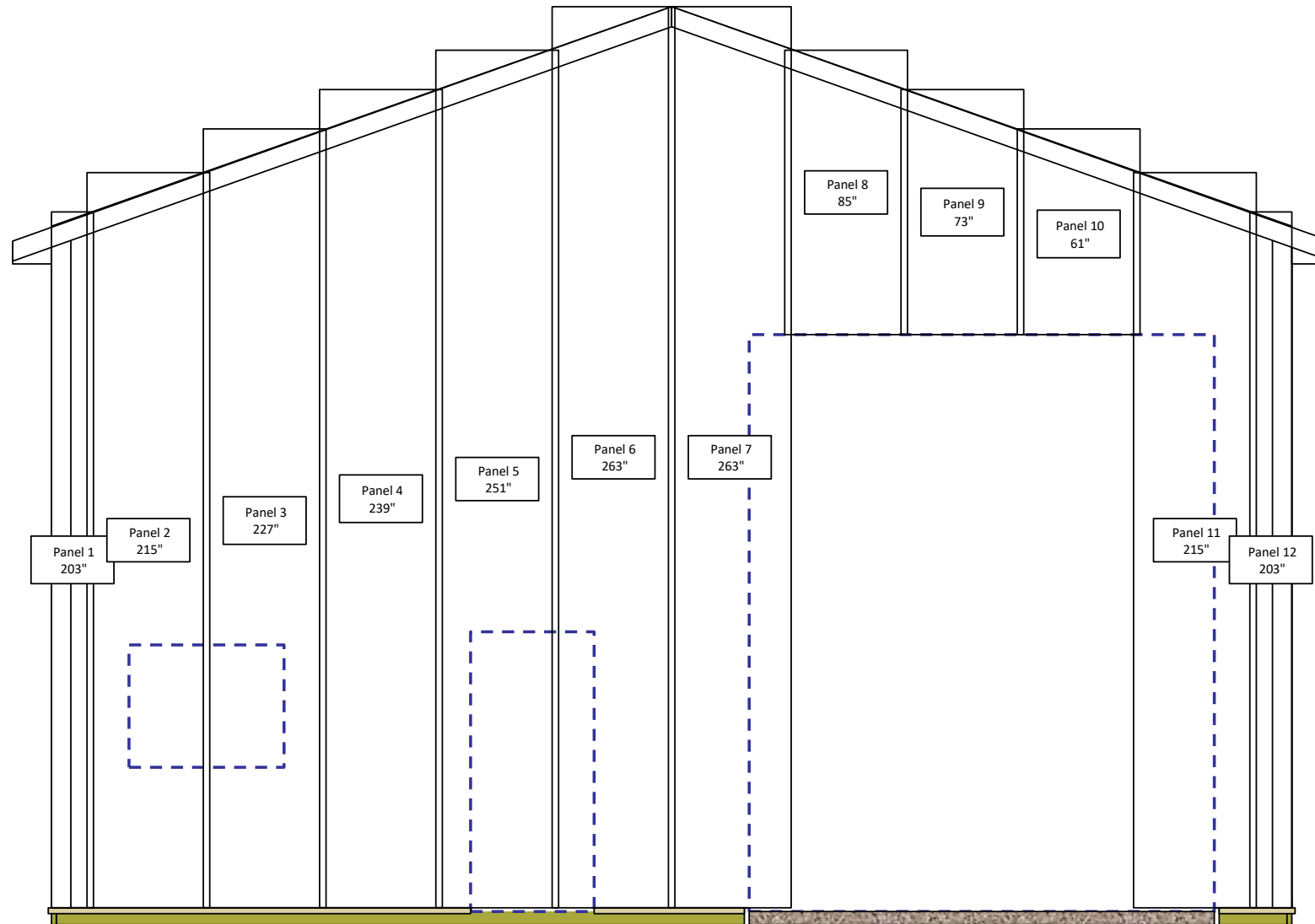


# NORTH WEST SIDE-EAVE SIDE 1 STEEL WALL LAYOUT



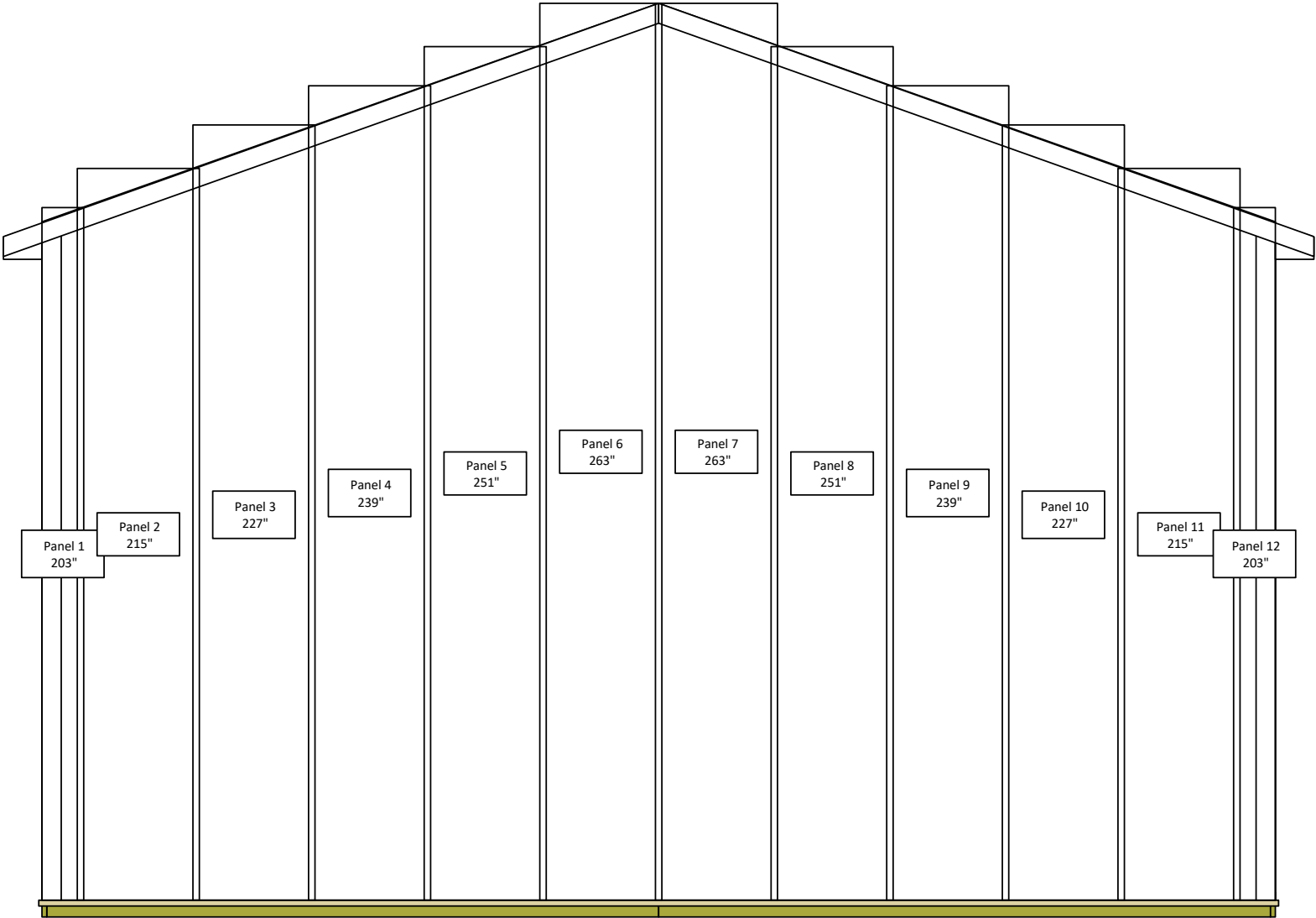
Shift the vertical starting point of the first panel to 1 1/2 in. from the outside corner of the building so there is no panel rib & steel corner trim conflict at the other end. The rib spacing will also be balanced.

# NORTH EAST SIDE-GABLE SIDE 2 STEEL WALL LAYOUT



Cut 25 in. off the width of the first panel so that a rib lands in the center of the main building.

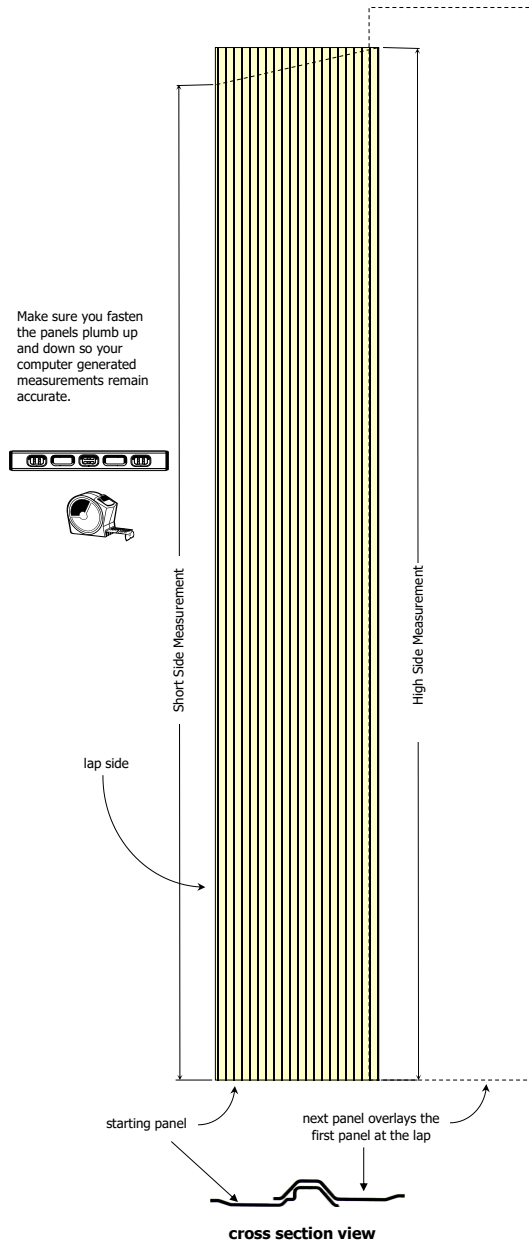
# SOUTH WEST SIDE-GABLE SIDE 1 STEEL WALL LAYOUT



Cut 25 in. off the width of the first panel so that a rib lands in the center of the main building.

# INFORMATION

on typical wall panel layout



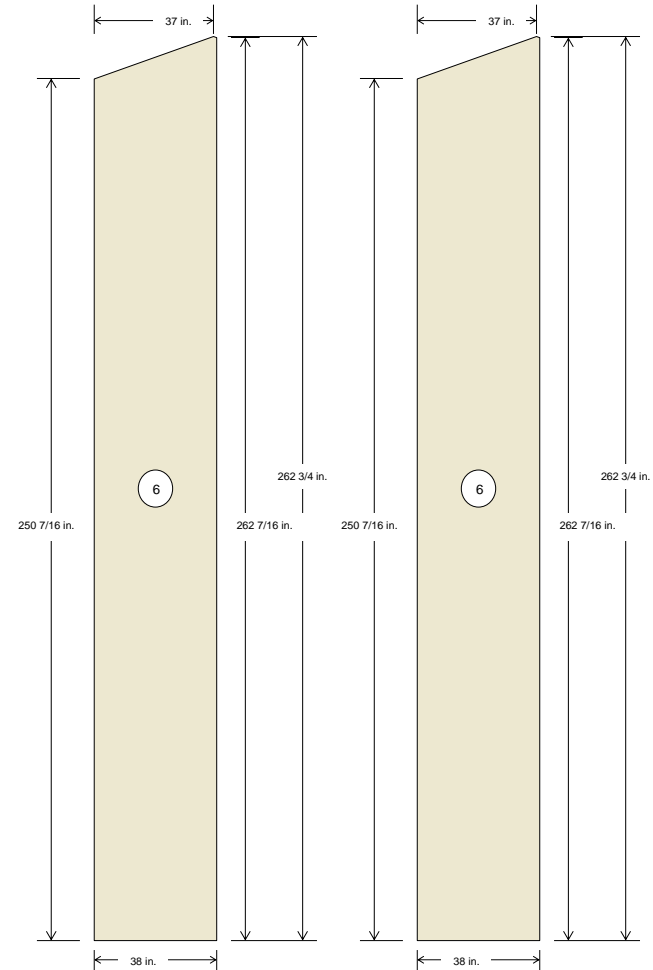
Check your steel manufacturing company detail illustrations for nailing patterns.



Gable Side 1

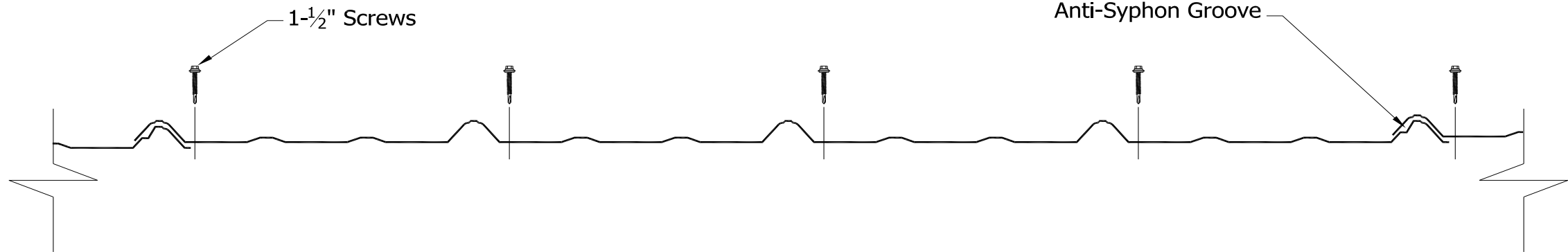
## Steel Siding Panel Details

Gable Side 2

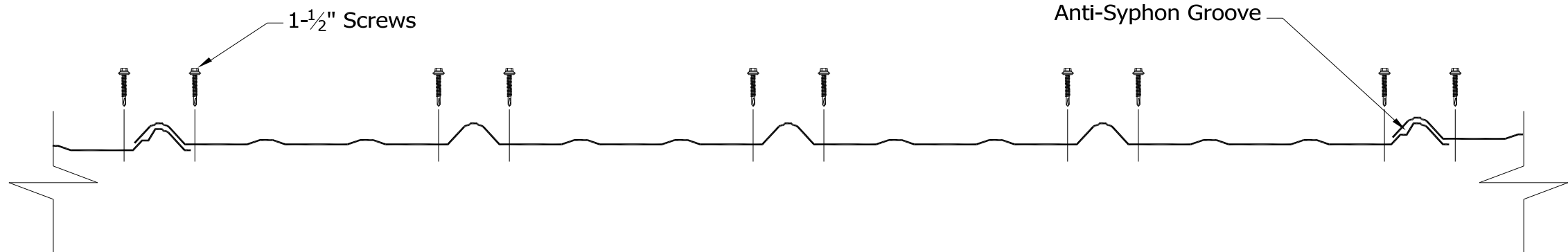


# Recommended Fastening Pattern

FOR: Intermediate Supports



FOR: Eave, Ridge, and Endlaps

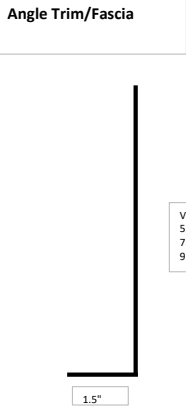
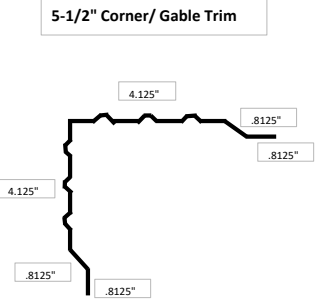
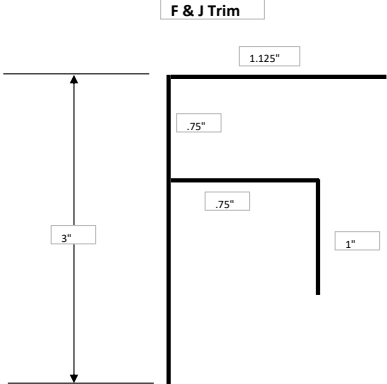
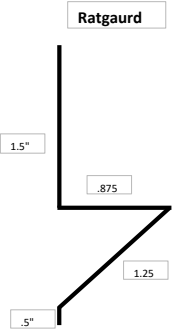
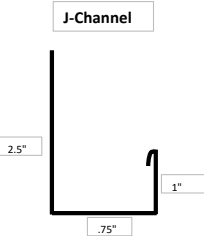
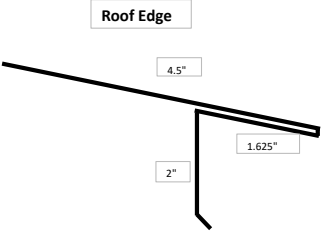
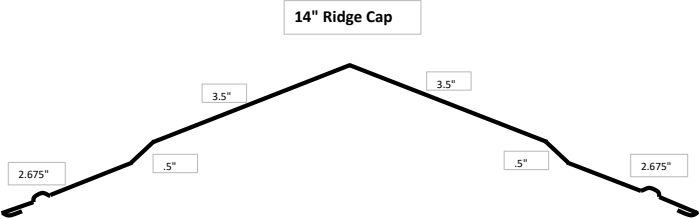


**Notes:**

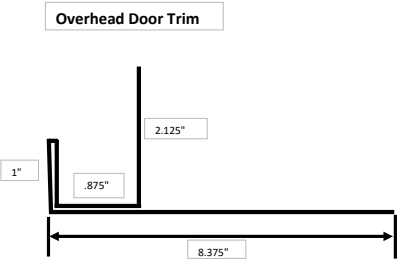
1-1/2" Screws for Siding, Roofing, & Trim  
2" Screws for Ridge Cap

# STEEL TRIM ACCESSORIES

For Reference Only - Not to Scale



Varies In Lengths From:  
5.5"  
7.5"  
9.25"



# MASTER MATERIALS LIST

QUANTITY	DESCRIPTION
<b><u>CONCRETE COOKIES</u></b>	
20 ea	15 In Diam. X 4 In Thk. @ 5000 psi
<b><u>POST PROTECTOR</u></b>	
19 ea	Post Protector for a 3-Ply 2x6 Post
1 ea	Post Protector for a Treated 4x6 Post
<b><u>POLES</u></b>	
1 ea	Treated 4 X 6 X 12
13 ea	Laminated Columns 3 Ply 3-Ply 2 x 6 Laminated Post 22 Ft
3 ea	Laminated Columns 3 Ply 3-Ply 2 x 6 Laminated Post 24 Ft
2 ea	Laminated Columns 3 Ply 3-Ply 2 x 6 Laminated Post 26 Ft
1 ea	Laminated Columns 3 Ply 3-Ply 2 x 6 Laminated Post 28 Ft
<b><u>SKIRTBOARD</u></b>	
2 ea	Treated 2 x 8 x 12
6 ea	Treated 2 x 8 x 16
1 ea	Treated 2 x 8 x 20
<b><u>WALL GIRT</u></b>	
29 ea	Construction Grade 2 x 4 x 12
38 ea	Construction Grade 2 x 4 x 16
2 ea	Construction Grade 2 x 4 x 20
<b><u>TRUSS CARRIER EXTERIOR</u></b>	
2 ea	2 x 12 x 12 Ft. #1 SP
4 ea	2 x 12 x 16 Ft. #1 SP
<b><u>TRUSS CARRIER INTERIOR</u></b>	
2 ea	2 x 12 x 12 Ft. #1 SP
4 ea	2 x 12 x 16 Ft. #1 SP
<b><u>STRUCTURAL GABLE TRUSS</u></b>	
2 ea	Gable Truss 32' (4/12 Pitch, 25-5-0-5, 10.5" O.H., 6.19" heel ht.) w/ horizontal wall girts <b>ENG Stamped</b>
<b><u>TRUSS</u></b>	
9 ea	Common Truss 32' (4/12 Pitch, 25-5-0-5, 10.5" O.H., 6.19" heel ht., 4' O.C.) <b>ENG Stamped</b>
<b><u>TRUSS BRACING</u></b>	
5 ea	Construction Grade 2 x 4 x 12
10 ea	Construction Grade 2 x 4 x 16
<b><u>TRUSS BLOCK</u></b>	
1 ea	Construction Grade 2 x 6 x 16
<b><u>PURLINS</u></b>	
20 ea	Construction Grade 2 x 4 x 12
40 ea	Construction Grade 2 x 4 x 16
<b><u>FACIA STOCK</u></b>	
4 ea	Construction Grade 2 x 6 x 20 Ft.
<b><u>DOOR JAMB</u></b>	
2 ea	2 x 10 x 16 Ft. #1 SP
<b><u>BACK JAMB</u></b>	
2 ea	Construction Grade 2 x 4 x 16
<b><u>DOOR HEADER</u></b>	
2 ea	2 x 12 x 16 Ft. #1 SP
1 ea	Construction Grade 2 x 6 x 16 Ft.
<b><u>WINDOW FRAMING</u></b>	
2 ea	Construction Grade 2 x 4 x 12 Ft.
<b><u>POLE BRACING</u></b>	
29 ea	Construction Grade 2 x 4 x 16
<b><u>WALL LAYER 1</u></b>	
4 pcs	Foil / Double Bubble / Poly-Roll
<b><u>WALL LAYER 2</u></b>	
864 LF	Light Stone G-Rib #1 - 26 Ga. Steel Panel
<b><u>WALL STEEL ACCESSORIES</u></b>	
4 pcs	Brite White Corner Or Gable Trim (5.5 In.) 18 ft 0 in
3 pcs	Brite White J-Channel 10 ft 0 in
13 pcs	Light Stone Base Guard 10 ft 0 in
1 pc	Brite White Overhead Door Trim 12 ft 0 in
2 pcs	Brite White Overhead Door Trim 14 ft 0 in
<b><u>ROOF LAYER 1</u></b>	
3 pcs	Foil / Double Bubble / Poly-Roll
<b><u>ROOF LAYER 2</u></b>	
504 LF	Crimson Red G-Rib #1 - 26 Ga. Steel Panel

# MASTER MATERIALS LIST

QUANTITY	DESCRIPTION
<b><u>STEEL DRIP EDGE ON EAVES ONLY</u></b>	
9 pcs	Brite White Roof Edge 10 ft 0 in <b>4/12 pitch</b>
<b><u>STEEL ROOF ACCESSORIES</u></b>	
4 pcs	Brite White Corner Or Gable Trim (5.5 In.) 20 ft 0 in
5 pcs	Crimson Red 14 In. Ridge Cap 10 ft 6 in X 14 in
8 pcs	Black 10 Ft. Vented Closure Strip 10 ft x 2 in Ridge Accessory
<b><u>FACIA &amp; SOFFIT MATERIALS</u></b>	
10 pcs	Brite White 1 1/2 In. X 5 1/2 In. Angle 6 x 10 ft 0 in
28 pcs	Brite White Steel Soffit 36 x 11.5 in
8 pcs	Brite White Overhang Trim (F&J) 10 ft 0 in
<b><u>OVERHEAD DOORS</u></b>	
1 ea	Insulated O.H. Door 12' 0" x 14' 0"
<b><u>SERVICE DOORS</u></b>	
1 ea	36" x 80" Res. Nine-Lite Entry Door - RH
1 pc	Keyed Lockset - Chrome
<b><u>WINDOWS</u></b>	
1 ea	4' x 3' Insulated Vinyl Slider - White
1 lb	HDG 1-1/2" Roofing Nails
<b><u>SLOTTED STEEL ANGLE</u></b>	
2 pcs	Punched Angle 10' 0"
<b><u>WEATHERSTRIPPING</u></b>	
1 ea	White O.H.D. Weatherstrip 12 ft
2 ea	White O.H.D. Weatherstrip 14 ft
<b><u>HURRICANE CLIPS</u></b>	
18 pcs	Simpson H2.5A Rafter Tie (or equiv.)
<b><u>FASTENERS, STEEL WALL TRIM, STEEL ROOF TRIM</u></b>	
2 bag	Brite White 1 1/2 In. Metal To Wood Screws
<b><u>FASTENERS, ROOF LAYER 2 STEEL PANEL</u></b>	
6 bag	Crimson Red 1 1/2 In. Metal To Wood Screws
<b><u>FASTENERS, WALL LAYER 2 STEEL SIDING</u></b>	
11 bag	Light Stone 1 1/2 In. Metal To Wood Screws
<b><u>FASTENERS, STEEL FACIA, STEEL SOFFIT, WEATHERSTRIPPING</u></b>	
1 box	Brite White 1 1/4 In. Stainless Steel Soffit Nails 1 Lb. Box
<b><u>FASTENERS, HURRICANE CLIP</u></b>	
2 box	1-1/2 In. Galv. Joist Hanger Nails 1 Lb. Box
<b><u>FASTENERS, SKIRTBOARD, WALL GIRT, TRUSS, TRUSS BLOCKS, PURLINS, SERVICE DOOR CASING</u></b>	
1850 cnt	21 Deg. 3 1/2 in. Plastic Collated Framing Nails
<b><u>FASTENERS, STEEL ROOF CAP</u></b>	
1 bag	Crimson Red 2 In. Metal To Wood Screws
<b><u>FASTENERS, TRUSS CARRIER EXTERIOR, TRUSS CARRIER INTERIOR</u></b>	
2 box	40D Galv. Pole Barn Nails 5 Lb. Box
<b><u>ADDITIONAL MATERIALS-PER CONTRACT</u></b>	
4 pcs	Crimson Red G-Rib #1 - 26 Ga. Steel Panel (12')
42 -ft	Crimson Red Flat 29-Ga Coil Stock