




October 7, 2020

	DIY Pole Barns & Supplies 9232 Hogpath Road Arcanum, OH 45304 Business: 937-547-9100 Fax: 937-547-9122	
<u>Building Specifications</u>		
Building Width	40'	Building Type: Residential
Building Length	80'	Truss Loading: 35-10-0-5 PSF
Building Height	14'	Snow Load: 35 PSF
Eave Overhang	0 in.	Design Wind Speed: 130 MPH
Gable Overhang	0 in.	Building Code: IBC 2015
Pitch of Roof	4 in./12	Use Group: U
Style of Building	Post Frame	
Customer Name	Devon Burns	
Customer Address	E. Arapahoe Rd. J340 Rush, CO 80833	
Customer Phone	Call 720-278-1549	

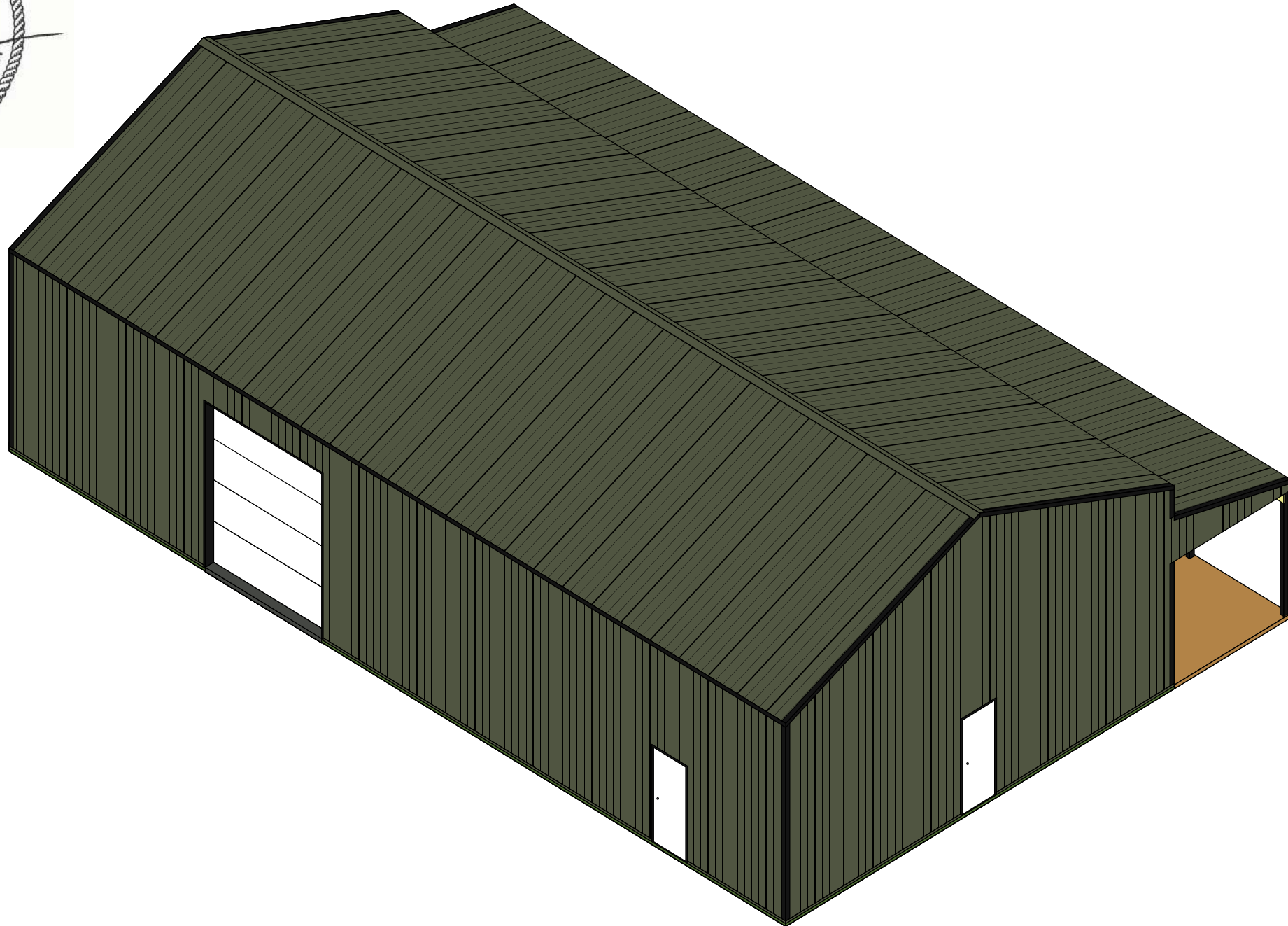
powered by Symun Systems, Inc. www.symun.com

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.



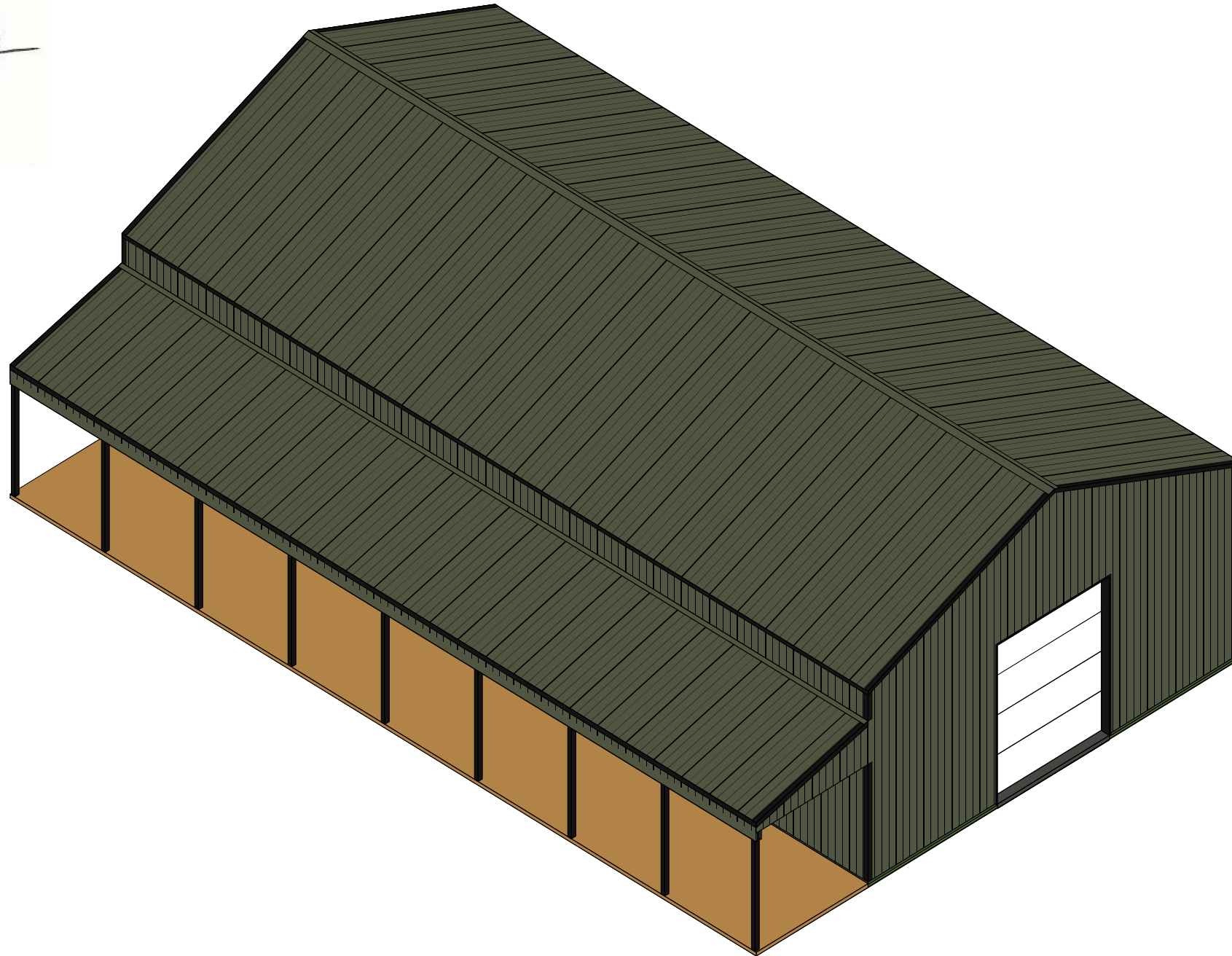


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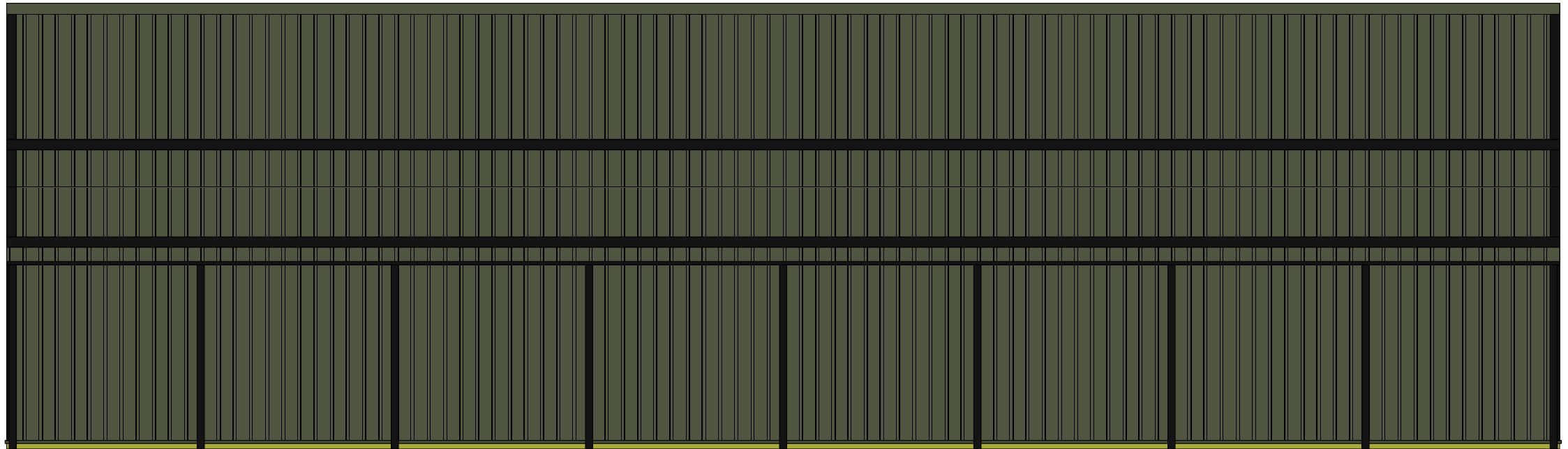
EAVE SIDE 2 ELEVATION





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EAVE SIDE 1 ELEVATION





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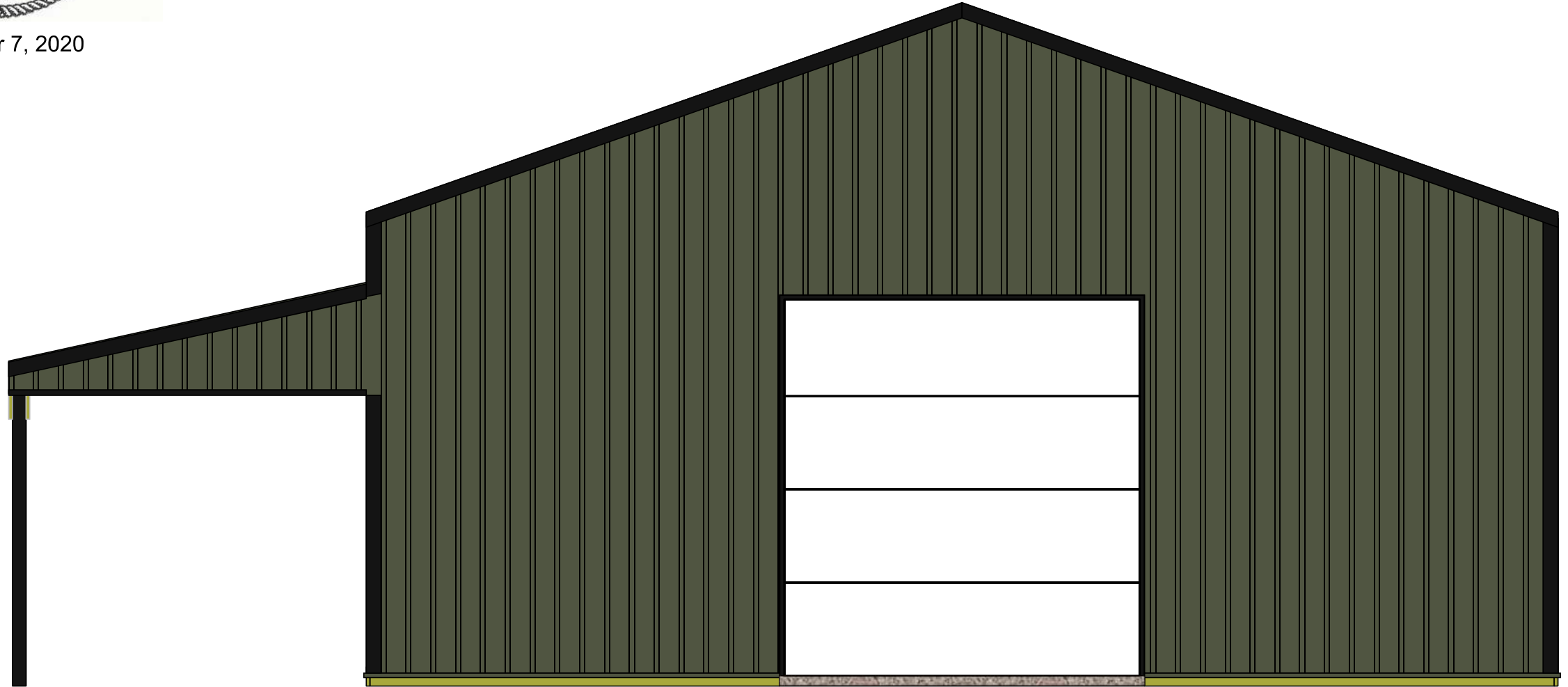
GABLE SIDE 2 ELEVATION





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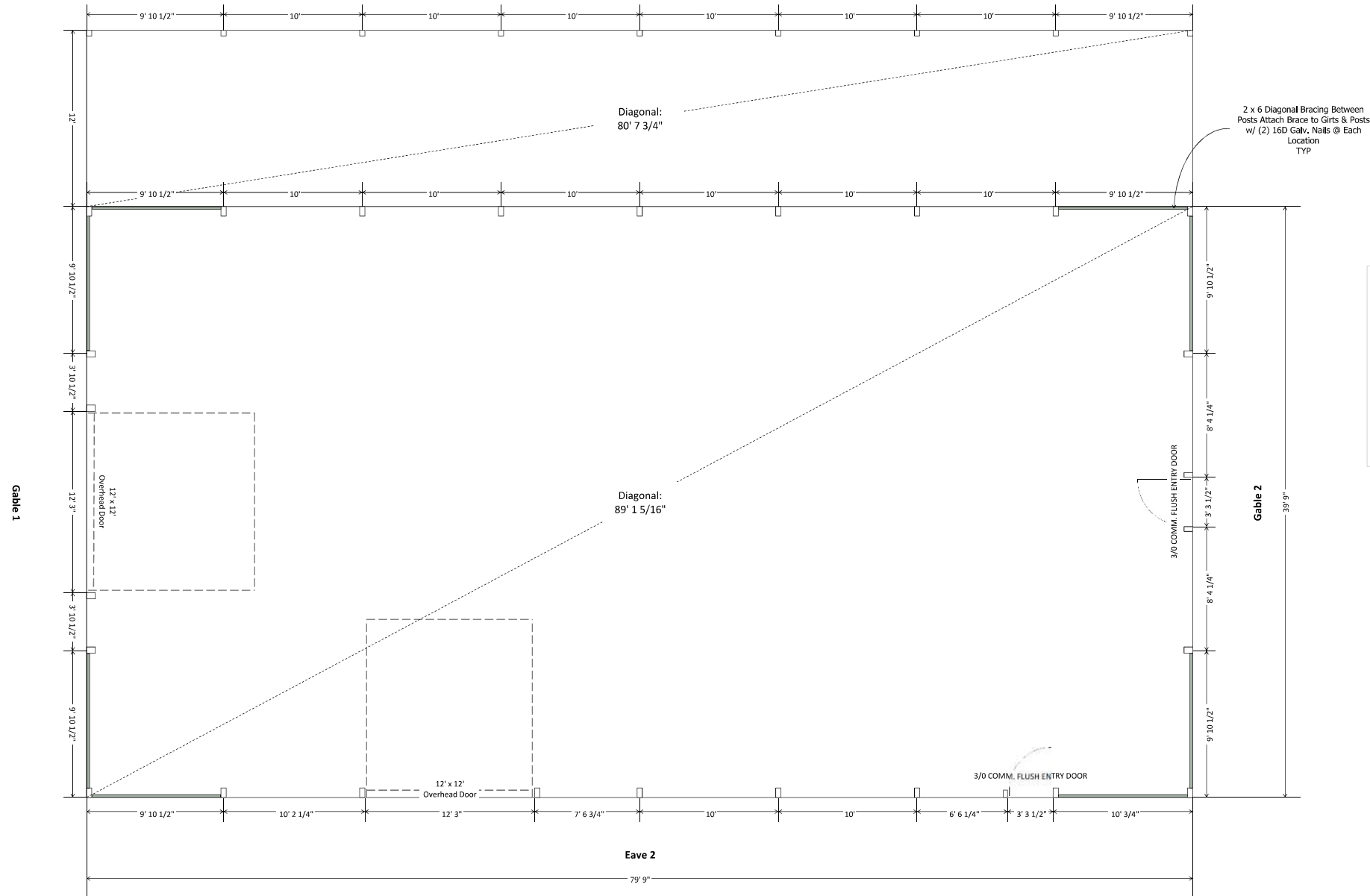
GABLE SIDE 1 ELEVATION



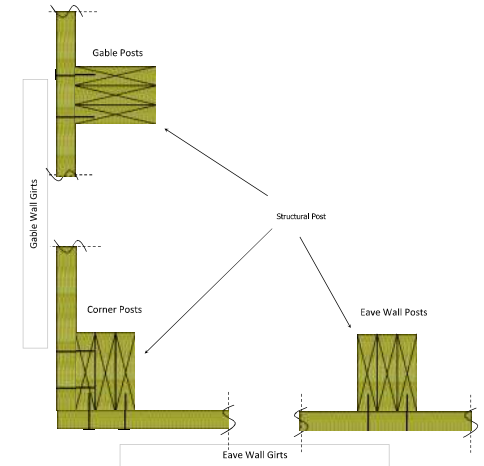
POLE LAYOUT

Residential Use, 3200 sq. ft.

Eave 1

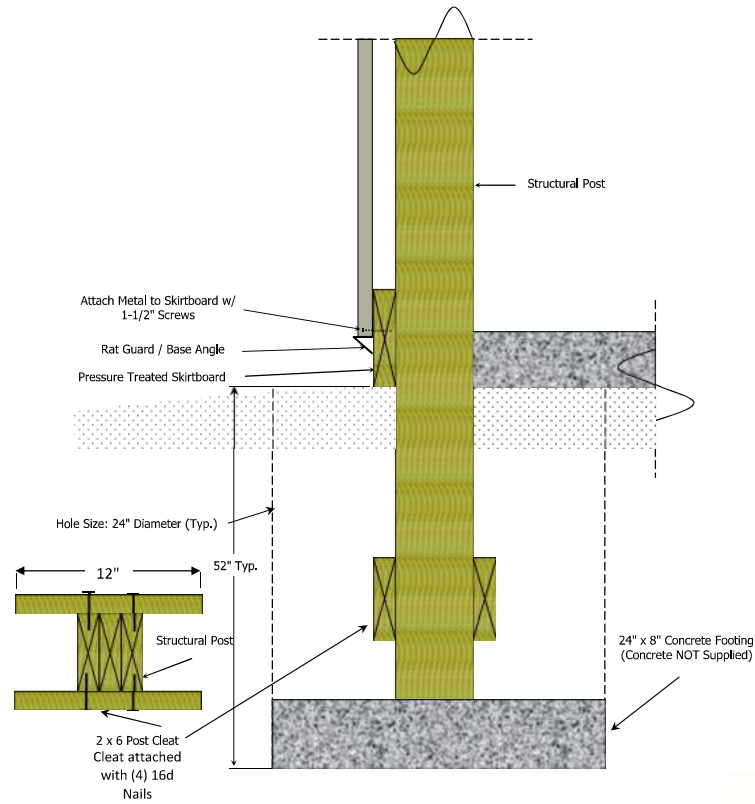


Post Orientation



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Footing / Skirtboard Detail

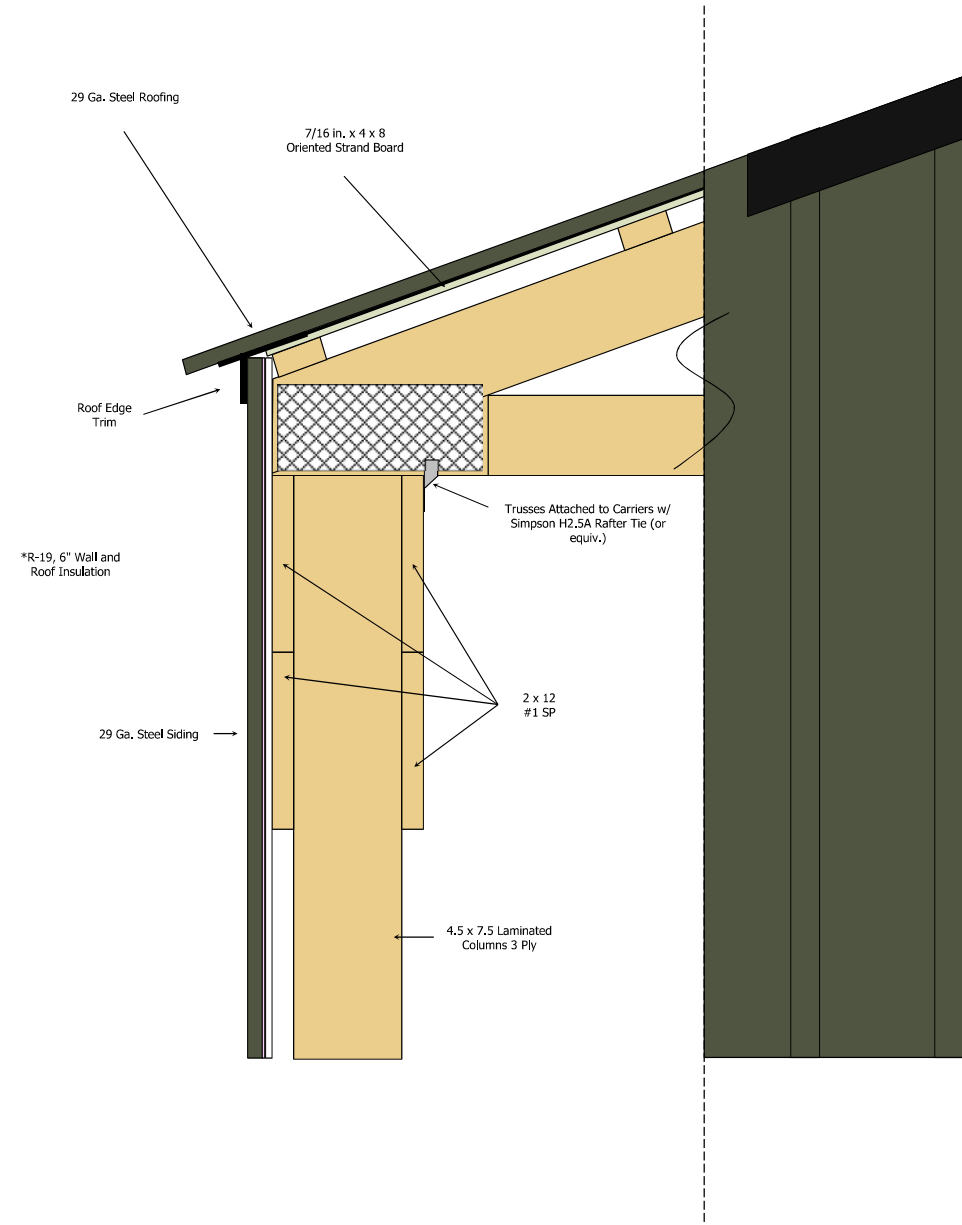


**SOILS REPORT AND FOUNDATION DESIGN
BY LICENSED COLORADO ENGINEER OR
ARCHITECT SHALL BE ON HAND
AT TIME OF FIRST INSPECTION.**

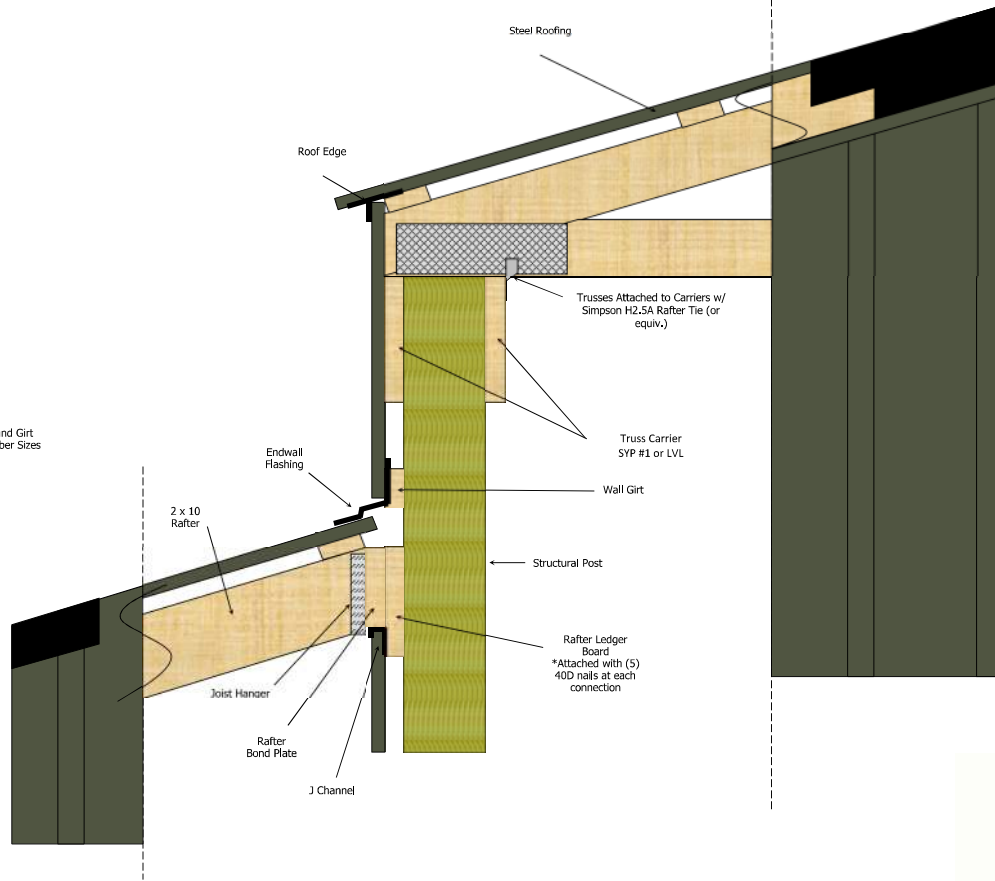


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Roof Edge Detail

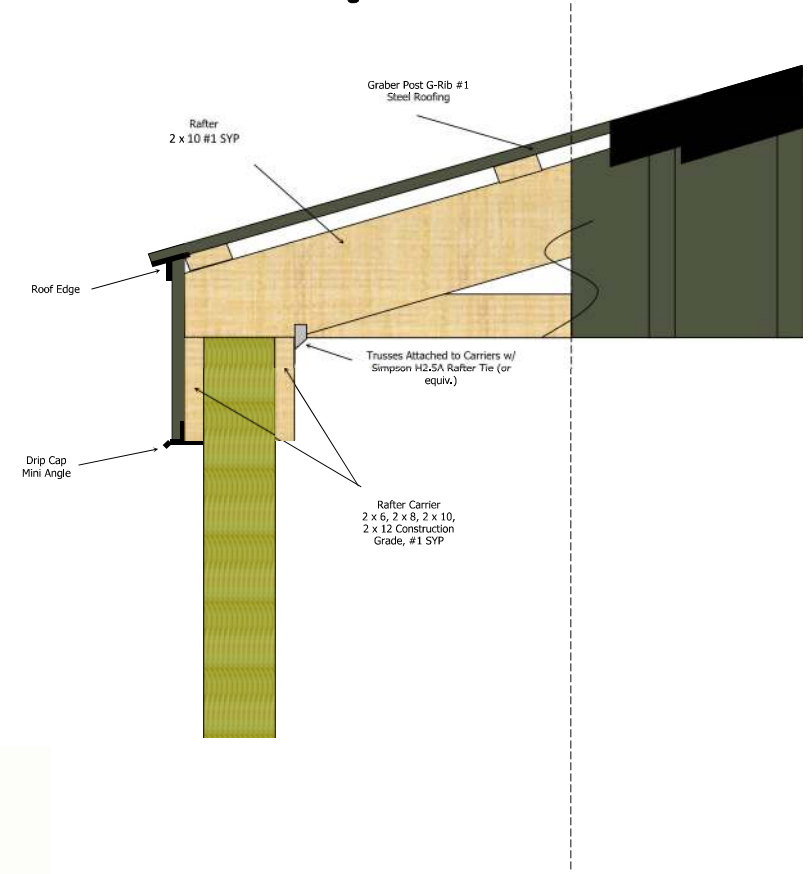


Open Porch / Enclosed Lean-To Roof Attachment Detail



*See Cross Section and Girt Views for Specific Lumber Sizes

No Overhang Porch Detail



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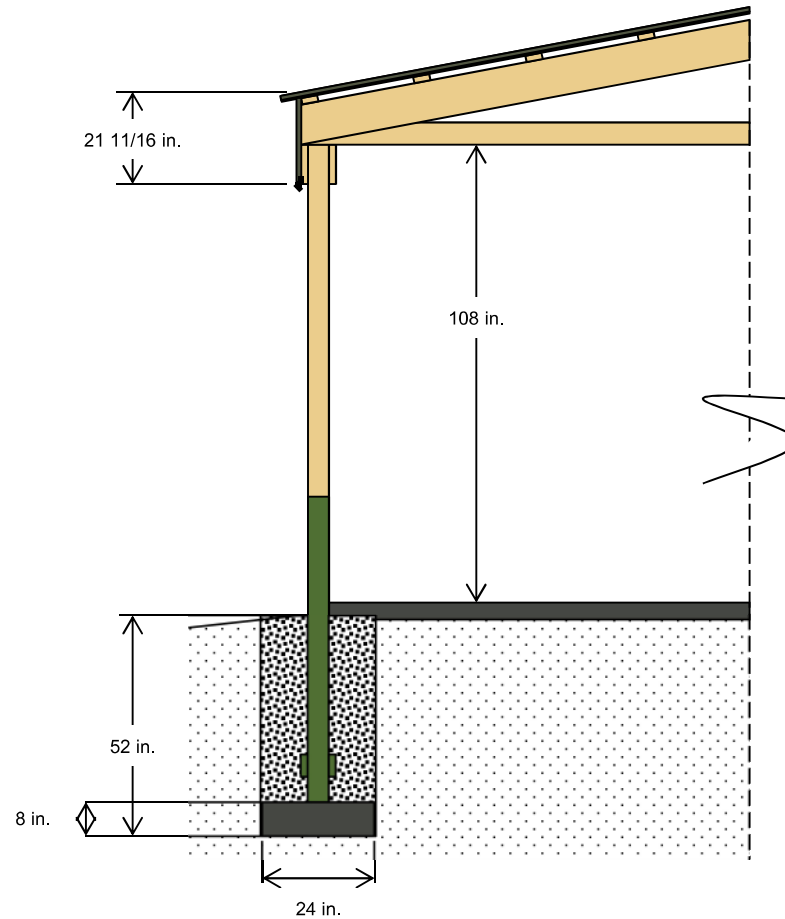
PORCH CROSS SECTION

ROOF LAYER 1: (R-19) 6 IN. METAL BUILDING INSULATION
 ROOF LAYER 2: 7/16 IN. X 4 FT. X 8 FT. ORIENTED STRAND BOARD
 ROOF LAYER 3: SYNTHETIC UNDERLAYMENT
 ROOF LAYER 4: CHARCOAL G-RIB #1 STEEL PANEL
 BLACK ROOF EDGE 10 FT 0 IN
 PURLINS: 2 X 4 CONSTRUCTION GRADE FASTENED LAYING FLAT

CORNER POSTS: LAMINATED COLUMNS 3 PLY 4.5 X 5.5
 INTERMEDIATE POSTS: LAMINATED COLUMNS 3 PLY 4.5 X 5.5 SPACING 10 FT O.C.

EXTERIOR CARRIER: 2 X 10 #1 SP
 INTERIOR CARRIER: 2 X 10 #1 SP

WALL LAYER 1: CHARCOAL G-RIB #1 STEEL PANEL



2.5/12 PITCH CONSTRUCTION GRADE 2 X 10 RAFTER SYSTEM
 HEEL HEIGHT: 9 7/16 IN.
 RAFTER SPACING: 48 IN. O.C.
 2 X 6 CEILING JOISTS ON THE END WALLS ONLY, HAS OPEN CEILING

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 24 IN. HOLE WITH SAND/GRAVEL FILL & COMPACT
 CONCRETE PIER FOOTING: MINIMUM OF 2500 P.S.I. STRENGTH MIX

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

SOILS REPORT AND FOUNDATION DESIGN BY LICENSED COLORADO ENGINEER OR ARCHITECT SHALL BE ON HAND AT TIME OF FIRST INSPECTION.



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EAVE2 CROSS SECTION

ROOF LAYER 1: (R-19) 6 IN. METAL BUILDING INSULATION
 ROOF LAYER 2: 7/16 IN. X 4 FT. X 8 FT. ORIENTED STRAND BOARD
 ROOF LAYER 3: SYNTHETIC UNDERLAYMENT
 ROOF LAYER 4: CHARCOAL G-RIB #1 STEEL PANEL
 BLACK ROOF EDGE 10 FT 0 IN

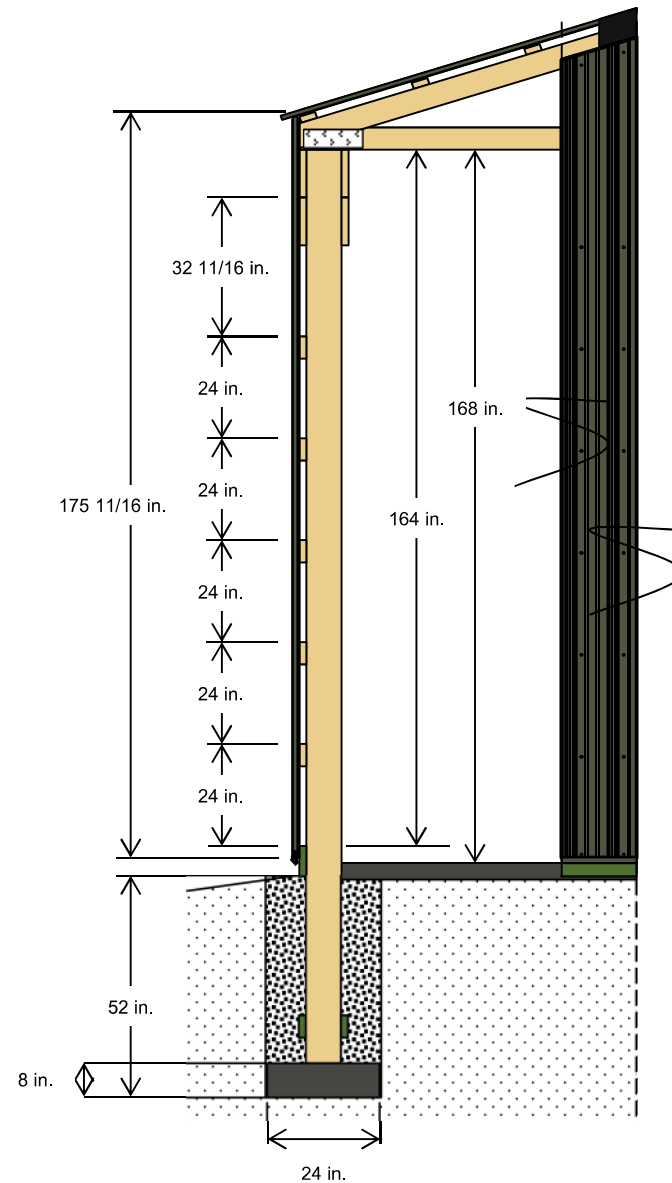
PURLINS: 2 X 4 CONSTRUCTION GRADE FASTENED LAYING FLAT

CORNER POSTS: LAMINATED COLUMNS 3 PLY 4.5 X 7.5
 INTERMEDIATE POSTS: LAMINATED COLUMNS 3 PLY 4.5 X 7.5 SPACING 10 FT O.C.
 EXTERIOR CARRIER: (2) 2 X 12 #1 SP
 INTERIOR CARRIER: (2) 2 X 12 #1 SP
 EXTERIOR WALL GIRTS: CONSTRUCTION GRADE 2 X 6
 WALL LAYER 1: (R-19) 6 IN. METAL BUILDING INSULATION
 WALL LAYER 2: 7/16 IN. X 4 FT. X 8 FT. ORIENTED STRAND BOARD
 WALL LAYER 3: HOUSE WRAP (10 FT)
 WALL LAYER 4: CHARCOAL G-RIB #1 STEEL PANEL

EXTERIOR SKIRT BOARD: TREATED 2 X 8

SIDING BEGINS 2 11/16 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 35-10-0-5
 TOTAL TRUSS LOADING = 50 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 24 IN. HOLE WITH SAND/GRAVEL FILL & COMPACT
 CONCRETE PIER FOOTING: MINIMUM OF 2500 P.S.I. STRENGTH MIX

DIY DOES NOT PROVIDE CONCRETE FLOOR. SOIL BEARING PRESSURE IS ASSUMED.
 POST CLEATS: TREATED 2 X 6 ON EACH SIDE OF POST STARTING 6 IN. ABOVE THE FOOTING



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EAVE1 CROSS SECTION

ROOF LAYER 1: (R-19) 6 IN. METAL BUILDING INSULATION
 ROOF LAYER 2: 7/16 IN. X 4 FT. X 8 FT. ORIENTED STRAND BOARD
 ROOF LAYER 3: SYNTHETIC UNDERLAYMENT
 ROOF LAYER 4: CHARCOAL G-RIB #1 STEEL PANEL
 BLACK ROOF EDGE 10 FT 0 IN

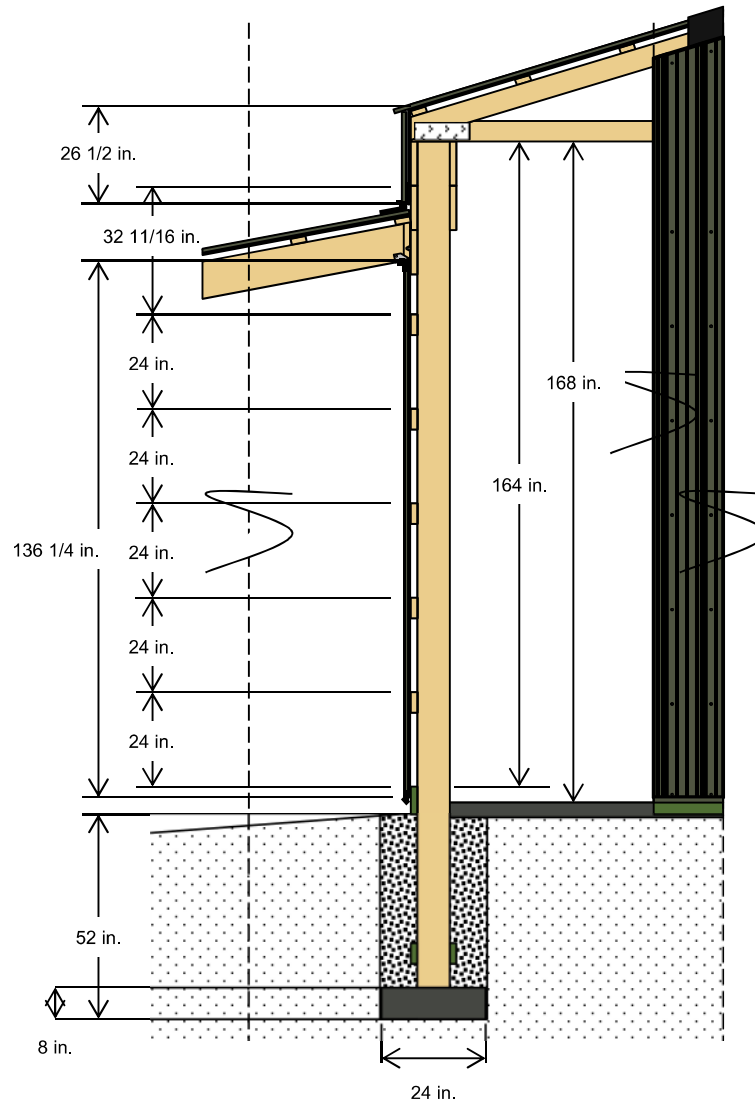
PURLINS: 2 X 4 CONSTRUCTION GRADE FASTENED LAYING FLAT

CORNER POSTS: LAMINATED COLUMNS 3 PLY 4.5 X 7.5
 INTERMEDIATE POSTS: LAMINATED COLUMNS 3 PLY 4.5 X 7.5 SPACING 10 FT O.C.
 EXTERIOR CARRIER: (2) 2 X 12 #1 SP
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 EXTERIOR WALL GIRTS: CONSTRUCTION GRADE 2 X 6
 WALL LAYER 1: (R-19) 6 IN. METAL BUILDING INSULATION
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 WALL LAYER 3: HOUSE WRAP (10 FT)
 WALL LAYER 4: CHARCOAL G-RIB #1 STEEL PANEL

EXTERIOR SKIRT BOARD: TREATED 2 X 8

SIDING BEGINS 2 11/16 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 35-10-0-5
 TOTAL TRUSS LOADING = 50 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 24 IN. HOLE WITH SAND/GRAVEL FILL & COMPACT
 CONCRETE PIER FOOTING: MINIMUM OF 2500 P.S.I. STRENGTH MIX

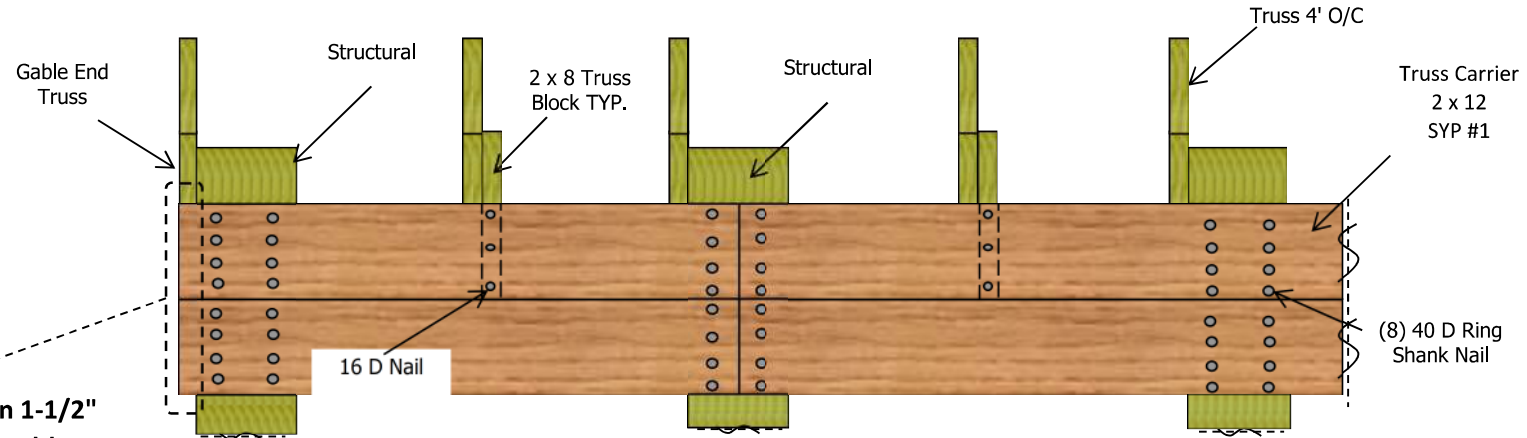
DIY DOES NOT PROVIDE CONCRETE FLOOR. SOIL BEARING PRESSURE IS ASSUMED.
 POST CLEATS: TREATED 2 X 6 ON EACH SIDE OF POST STARTING 6 IN. ABOVE THE FOOTING



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Truss Carrier Detail

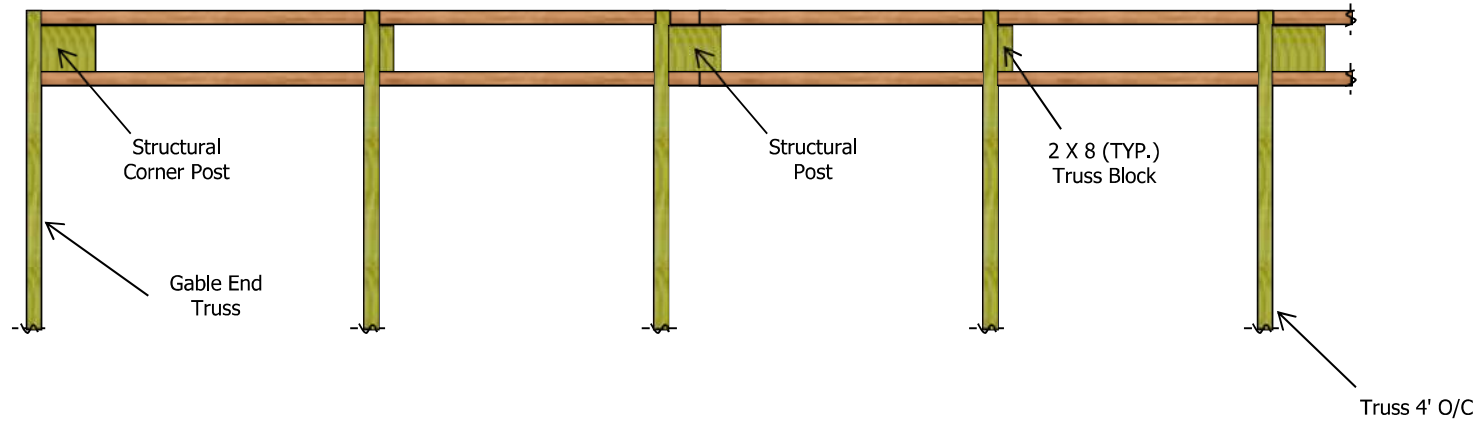
Eave View



NOTE: Truss carriers run 1-1/2" past structural corner post to support gable trusses.

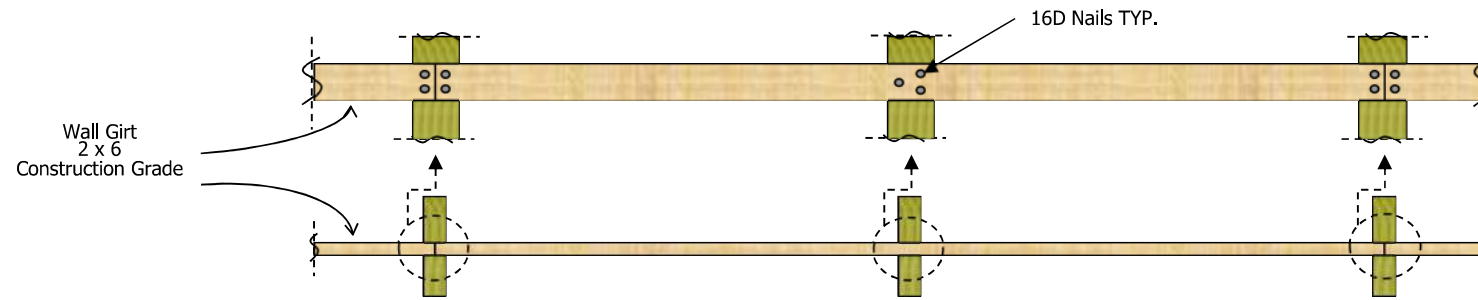
NOTE: (5) 16D nails nailed through the truss into the truss block and Eave Poles

Overhead View

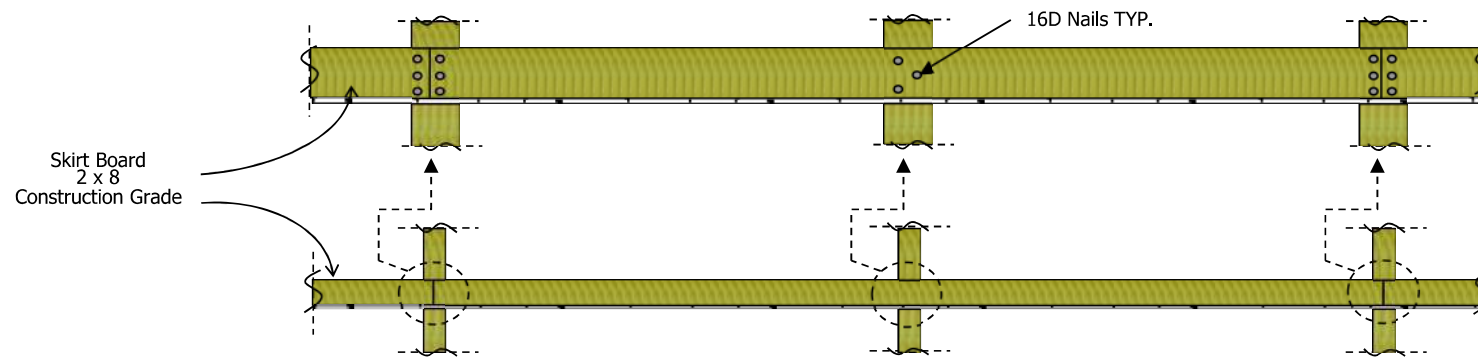


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Wall Girts, & Skirt Boards Nailing Pattern



NOTE:
Nailing pattern for 2x6 wall girts is the same as nailing patten for 2x4 purlins

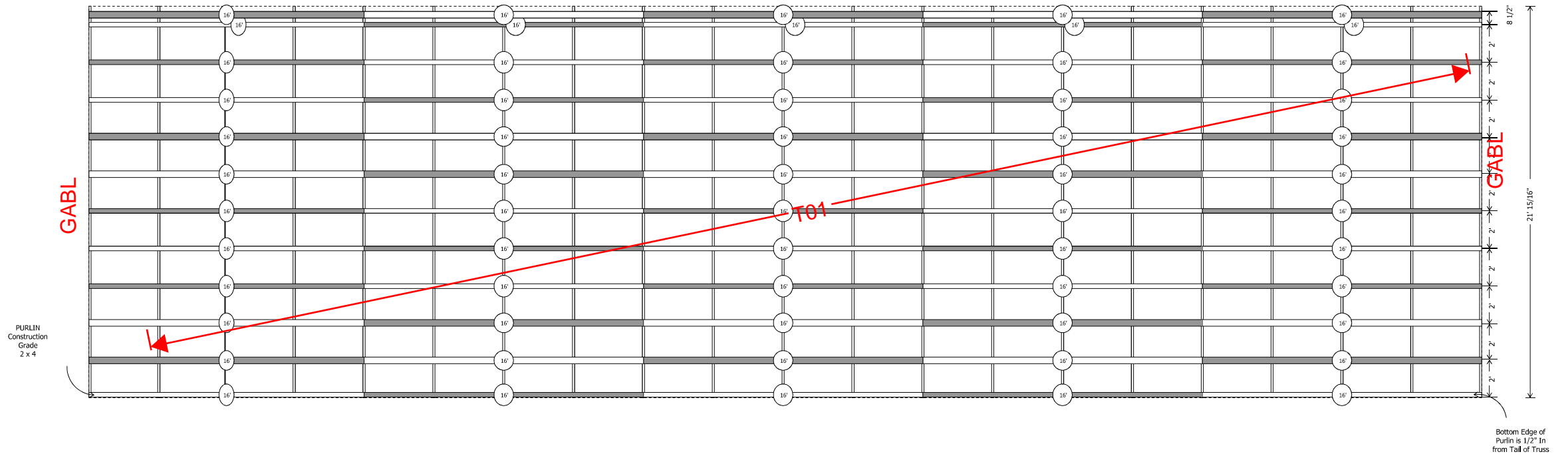


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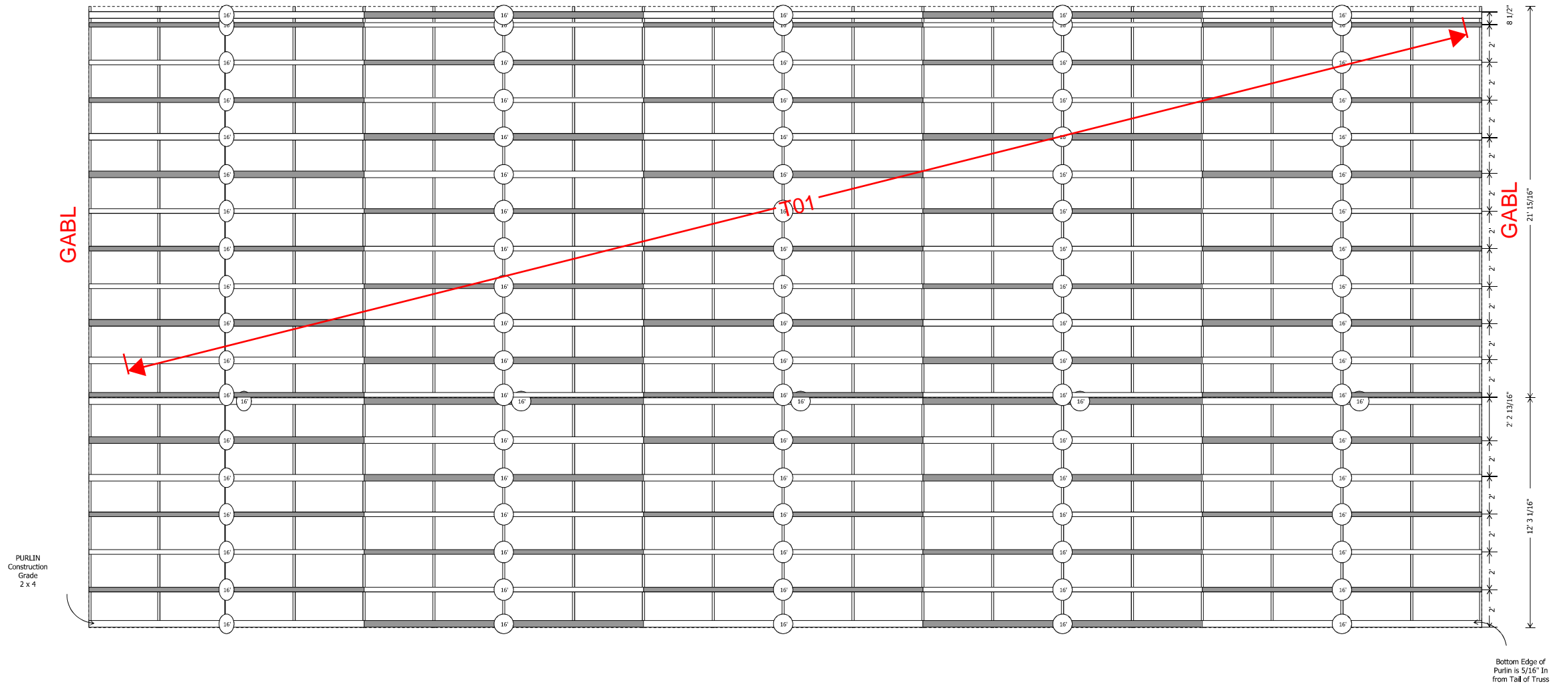
EAVE SIDE 2 TRUSS AND PURLIN LAYOUT





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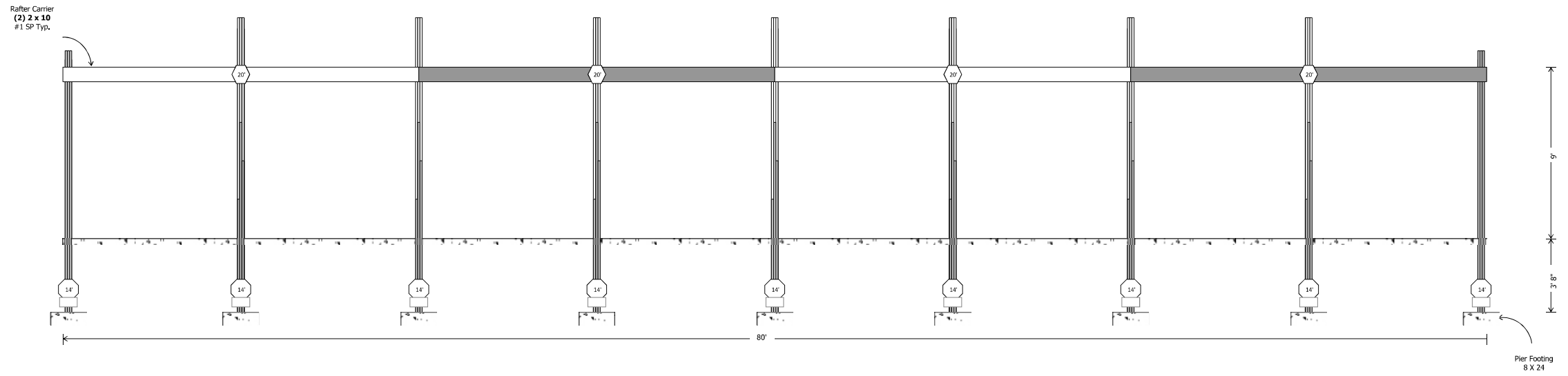
EAVE SIDE 1 TRUSS AND PURLIN LAYOUT





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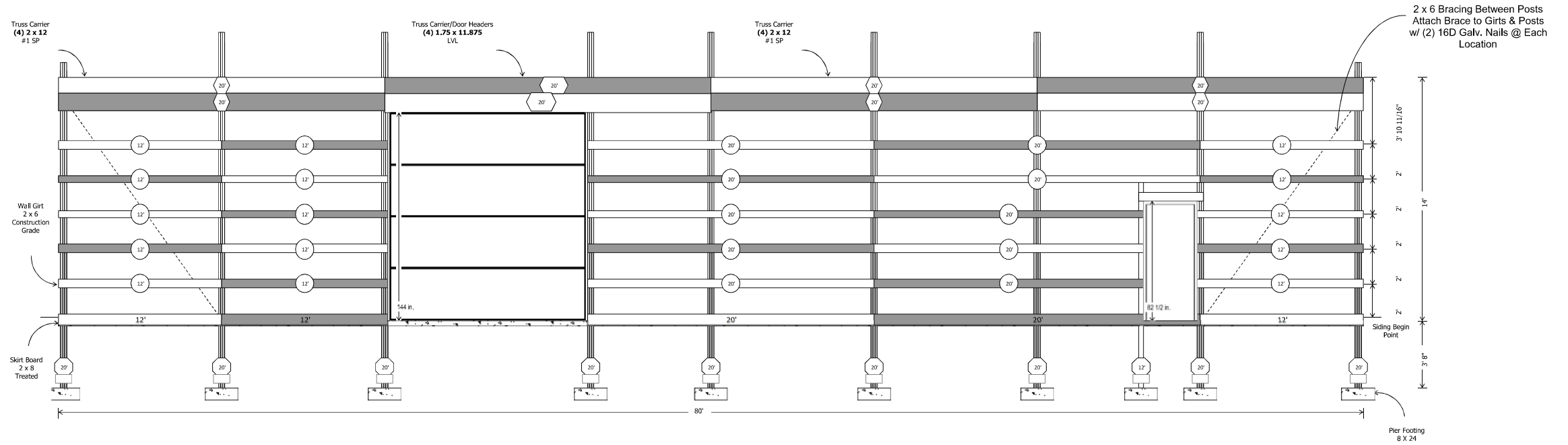
EAVE SIDE 1 PORCH/LEAN TO WALL GIRT VIEW





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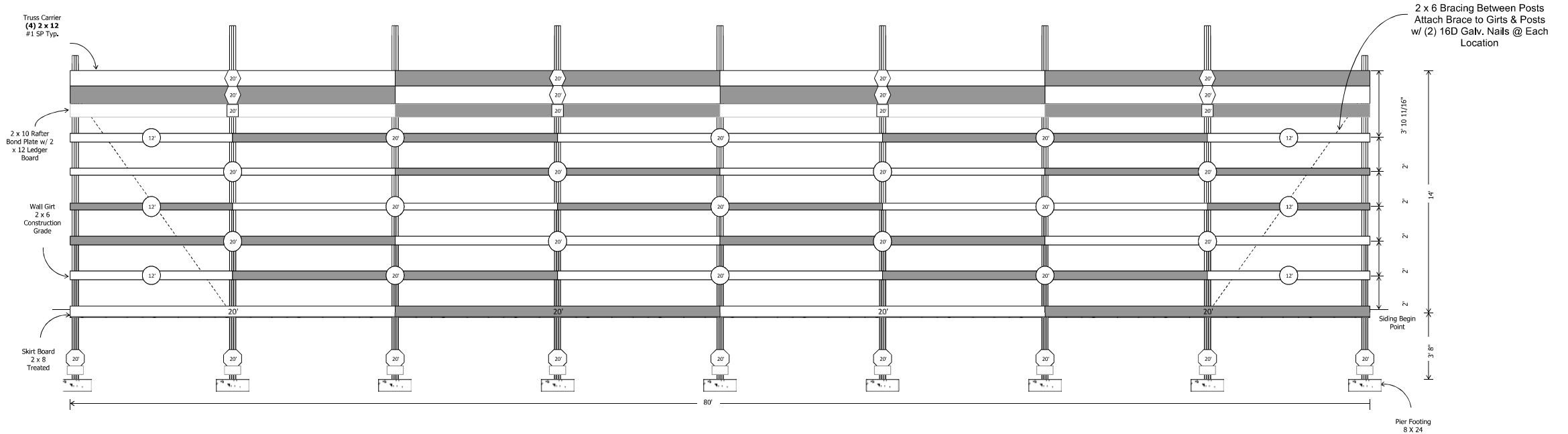
EAVE SIDE 2 WALL GIRT VIEW





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EAVE SIDE 1 WALL GIRT VIEW

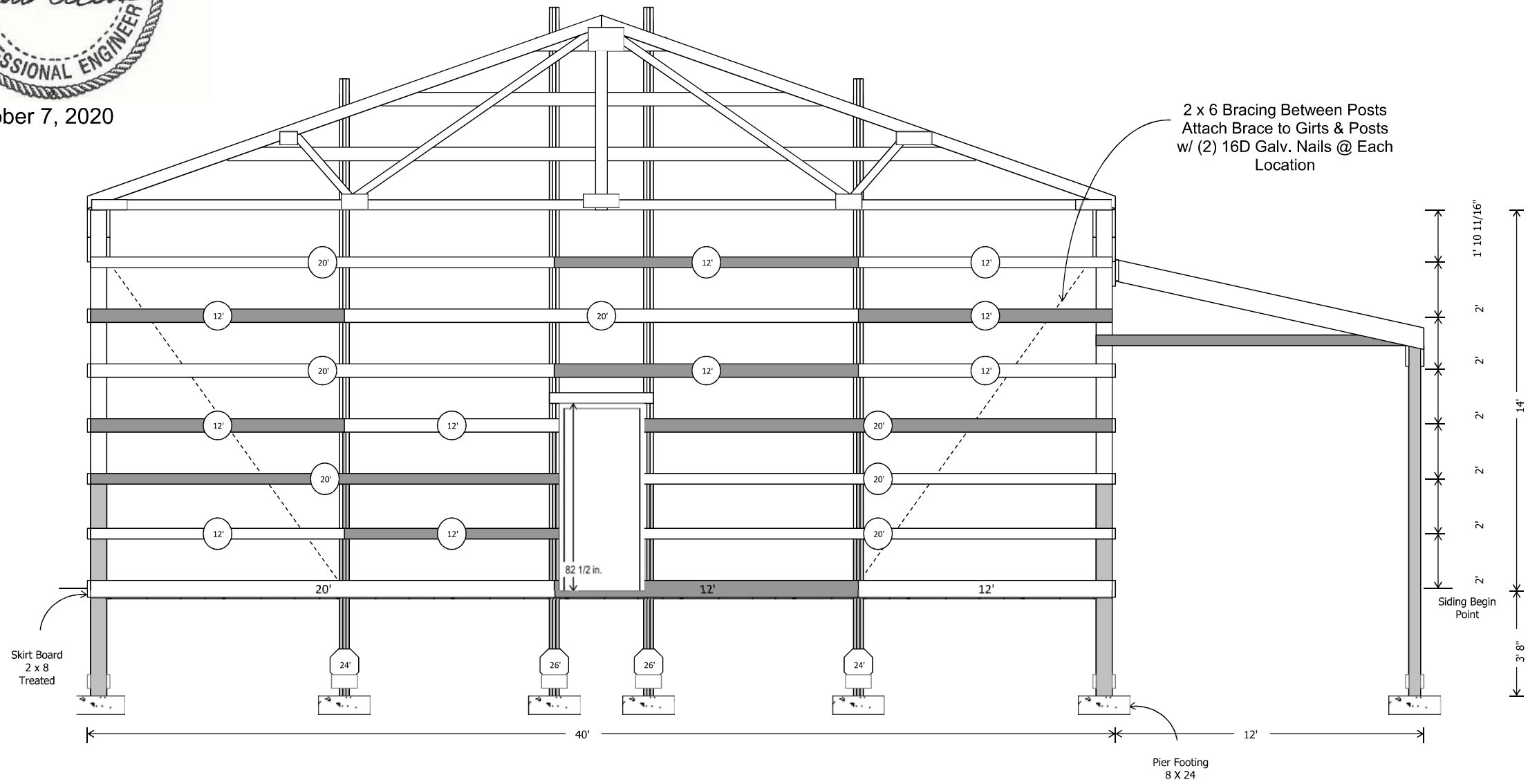




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GABLE SIDE 2 WALL GIRT VIEW

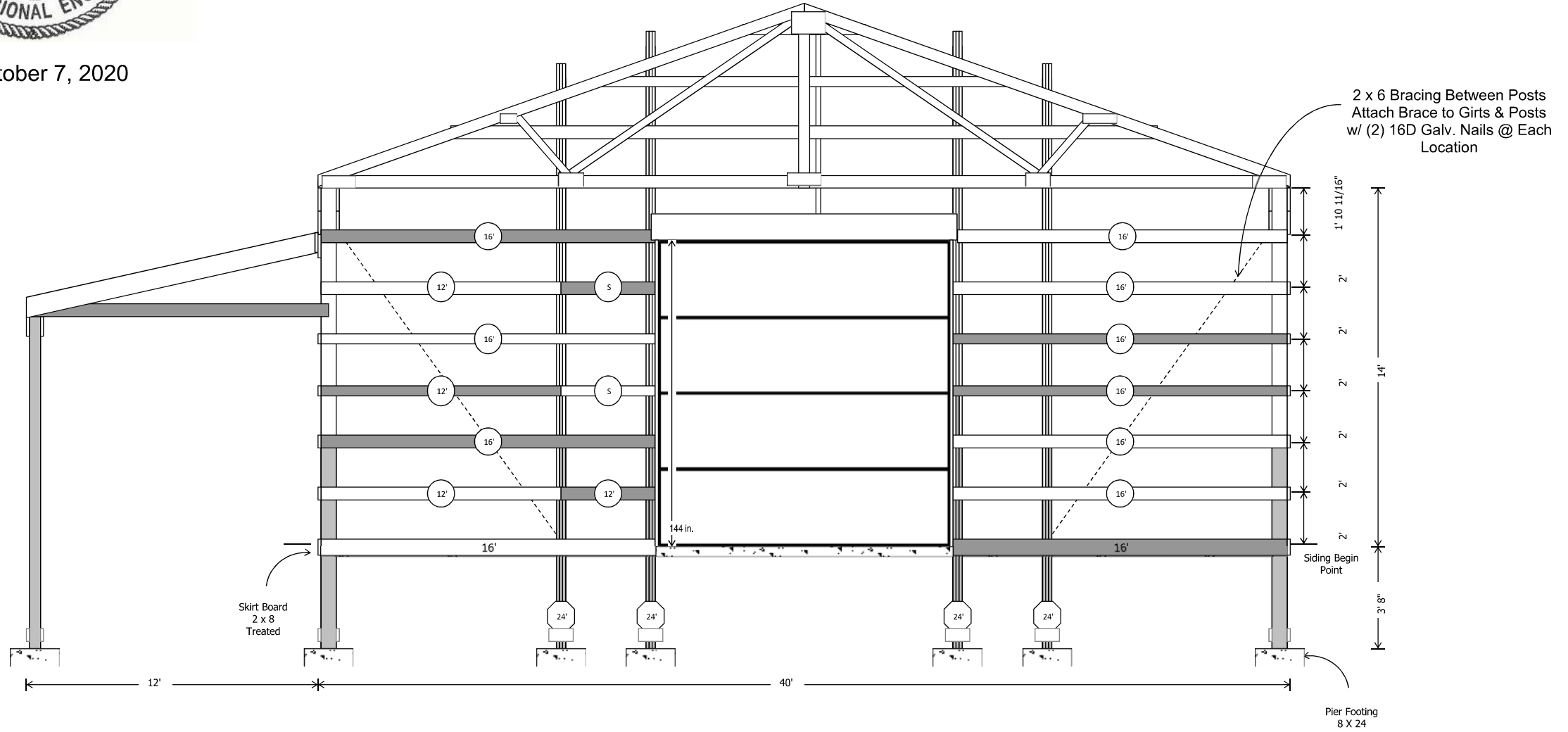
2 x 6 Bracing Between Posts
Attach Brace to Girts & Posts
w/ (2) 16D Galv. Nails @ Each
Location



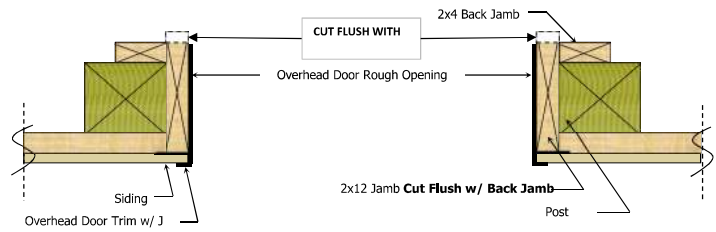


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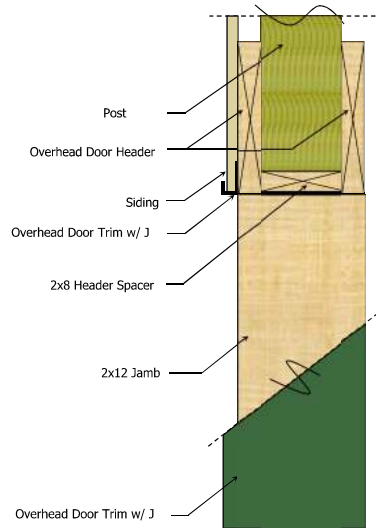
GABLE SIDE 1 WALL GIRT VIEW



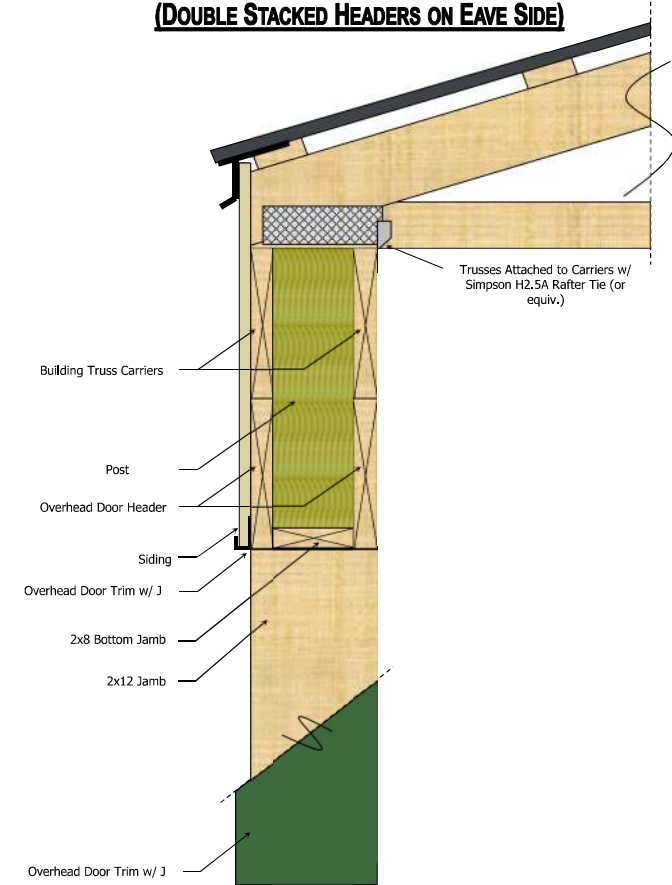
OVERHEAD DOOR JAMB DETAIL



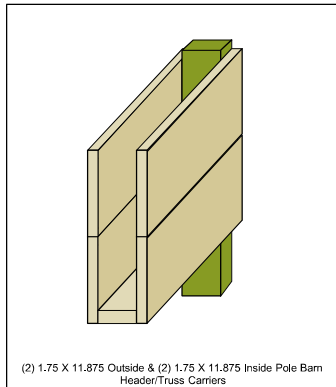
TYPICAL OVERHEAD DOOR CROSS SECTION (GABLE)



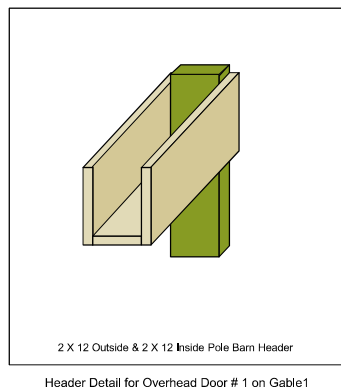
OVERHEAD DOOR CROSS SECTION (DOUBLE STACKED HEADERS ON EAVE SIDE)



Header Details



Header Detail for Overhead Door # 1 on Eave2

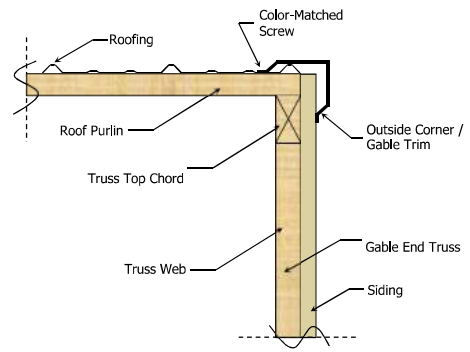


Header Detail for Overhead Door # 1 on Gable1

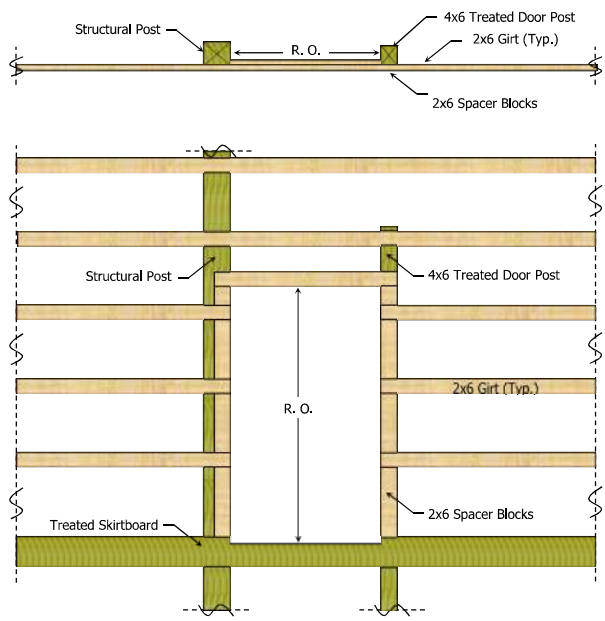


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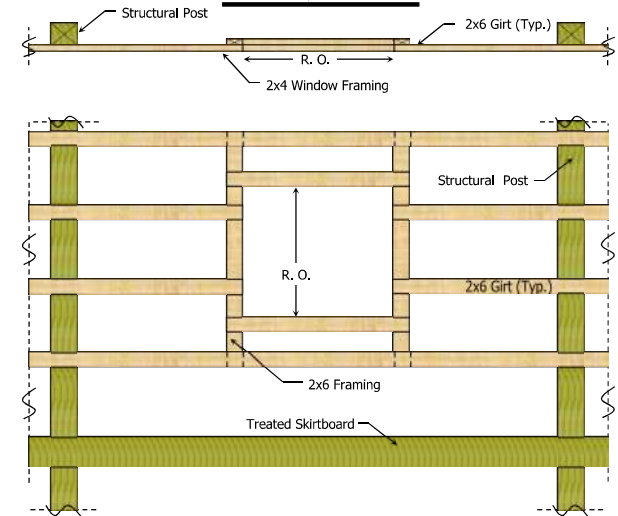
**GABLE DETAIL
NO OVERHANG**



**ENTRY DOOR
FRAME-OUT DETAIL**



**WINDOW
FRAME-OUT DETAIL**



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EAVE SIDE 2 ROOF PLYWOOD LAYOUT

61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 48 in.

Top row of plywood is 8 in. wide

60 sheets



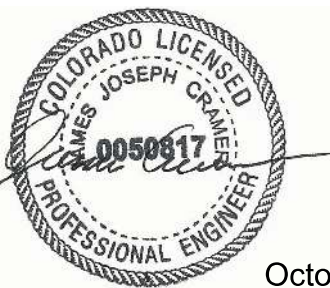
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EAVE SIDE 1 ROOF PLYWOOD LAYOUT

61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 4	61 1/2 in. X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 48 in.
51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 4	51 5/8 in. X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 4	8 X 48 in.
4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 48 in.

Top row of plywood is 8 in. wide

95 sheets



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