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### GENERAL NOTES

All notes do not necessarily apply due to different requirements on each project. This plan is intended to reflect only the structural design of this building. The contractor shall review all applicable local, state, and federal building codes prior to the start of construction to ensure building conformance. Timber Tech Engineering, Inc. is not responsible for information pertaining to this project if not shown on drawings or listed below. Revisions to the plans shall be approved by engineer of record.

### DESIGN REQUIREMENTS

1. Governing Code:  
Including, not limited to: IBC 2009
2. Dead Loads:
 

A. Roof	5	psf
B. Floor	n/a	psf
C. Other	n/a	psf
3. Live Loads:
 

A. Roof (See also note #4)	30	psf
B. Floor	n/a	psf
C. Other	n/a	psf
4. Snow Loads:
 

A. Ground Snow (Pg)	45	psf
B. Flat Roof Snow (Pf)	30	psf
C. Snow Exposure Factor (Ce)	1.0	
D. Snow Load Importance Factor (I)	0.8	
E. Unbalanced Snow		
i. Windward Roof	0	psf
ii. Leeward Roof	36	psf
5. Wind Load
 

A. Basic Wind Speed (V)	140	mph
B. Wind Load Importance Factor (I)	.77	
C. Wind Exposure Category	C	
D. Enclosure Category	Open	
E. Components and Cladding:	+56 psf/-72 psf	
6. Earthquake Design Data:  
(Analysis based on equivalent lateral force procedure)
 

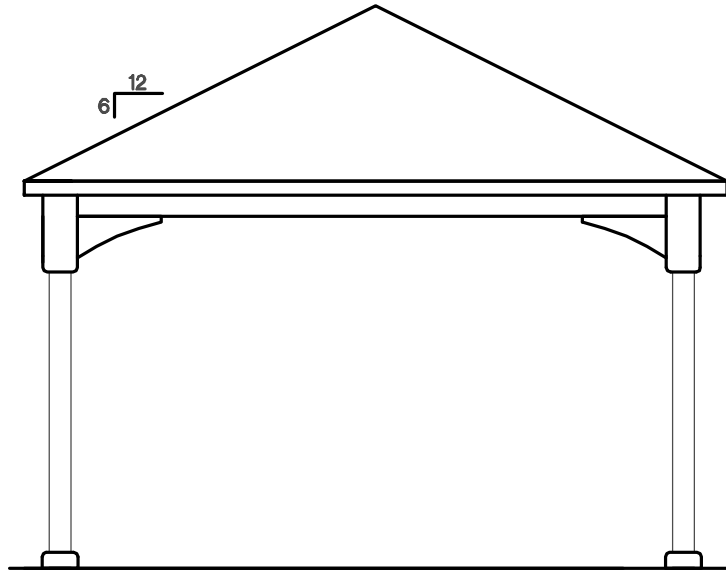
A. Spectral Response Acceleration at 1 sec, S	0.4
B. Spectral Response Acceleration at short periods, S	0.77
C. Seismic Use Group	1
D. Occupancy Importance Factor, I	1.0
E. Site Class	D
F. Basic Structural System	Cantilevered Column: Timber Frame
G. Response Modification Factor (R)	1.5
H. Deflection Amplification Factor (Cd)	1.5

Design Reaction Chart	
Max. Moment in column	3,750 lb-ft.
Max. uplift at column base	1,750 lb
Max. downward force at column base	3,650 lb
Max. shear at column base	450 lb

### WOOD

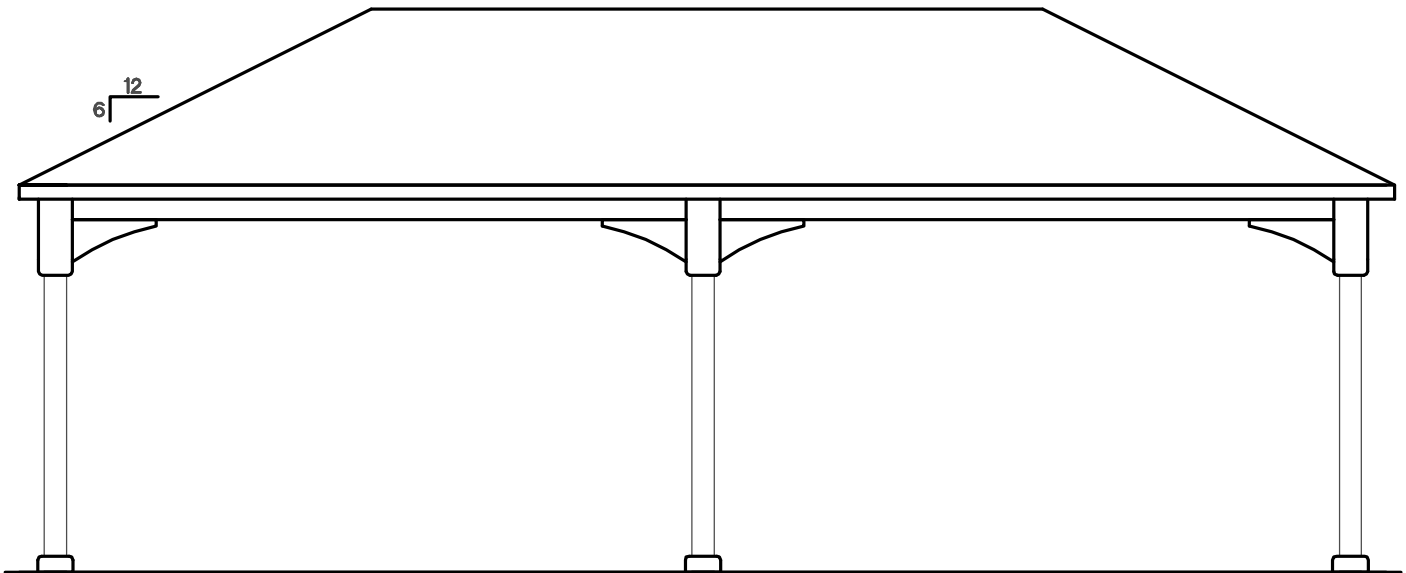
1. General Requirements
  - A. Structural wood members and connections shall be of sufficient size or capacity to carry all design loads without exceeding the allowable design values specified in "The National Design specification for Wood Construction" (NDS), 2005 edition, and its "Supplement" by the American Forest and Paper Association (AF+PA).
  - B. Wood members used for load supporting purposes shall have the grade mark of a lumber grading agency certified by the American Lumber Standards Committee.
2. Dimension Lumber
  - A. All lumber species, graded visually or mechanically, shall comply with the NDS by AF+PA, and the "American Softwood Lumber Standard" (PS 20-94) by the U.S. Department of Commerce.
  - B. The minimum grade and species for posts, beams, headers, and other primary structural members shall be Dense Select Structural Southern Pine, unless specified otherwise.
  - C. Lumber used for secondary framing shall be #1 Southern Yellow Pine (SYP) or better.
  - D. Post frame headers shall be two-span continuous beams with all multiple ply headers overlapping so that the butt joints for each ply do not occur at the same post.
  - E. Mechanically laminated columns shall conform with ANSI/ASAE EP 559.
3. Pressure Preservative Treatment (PPT)
  - A. Pressure treatment to be performed according to the American Wood Preservers' Association (AWPA) standards.
  - B. Pressure treated members shall have the inspection mark of an agency accredited by the American Lumber Standards Committee.
  - C. Preservative: Ammonia Copper Quaternary ammonia (ACQ) or Copper Boron Azole (CBA)
  - D. Minimum waterborne treatment retention shall be 0.4 pcf for members above ground, and 0.6 pcf for members in contact with earth.
  - E. Treat indicated items and the following:
    1. Wood members exposed to weather or insect infestation.
    2. Wood members in direct contact with earth or concrete.
    3. Wood members exposed to high moisture content (19% for dimension lumber, 16% for glued laminated timber).
    4. Wood members less than 12 inches above grade.
    - F. Field treat newly exposed wood where cutting, drilling or notching pressure treated lumber.
    - G. Metal connectors used in treated wood shall be hot-dip galvanized as per ASTM A153-01a.
4. Connections shall be designed and constructed according to the NDS by AF+PA and shall conform to the following:
  - A. The minimum connection shall be two 12 penny nails, or as detailed on the drawings.
  - B. Other connections as per standard construction practice.

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## End Elevation

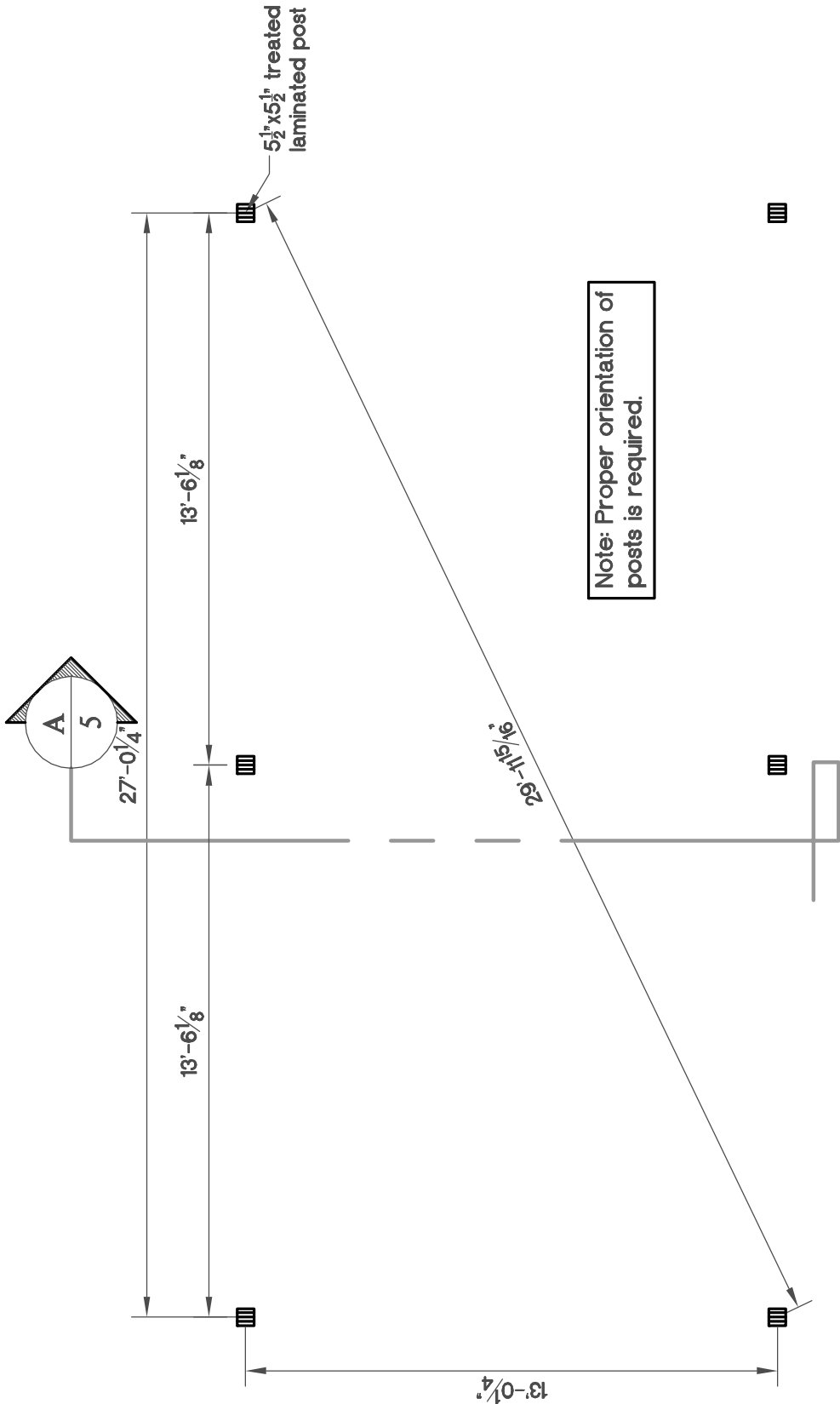
Scale  $\frac{1}{4}" = 1'-0"$



## Side Elevation

Scale  $\frac{1}{4}" = 1'-0"$

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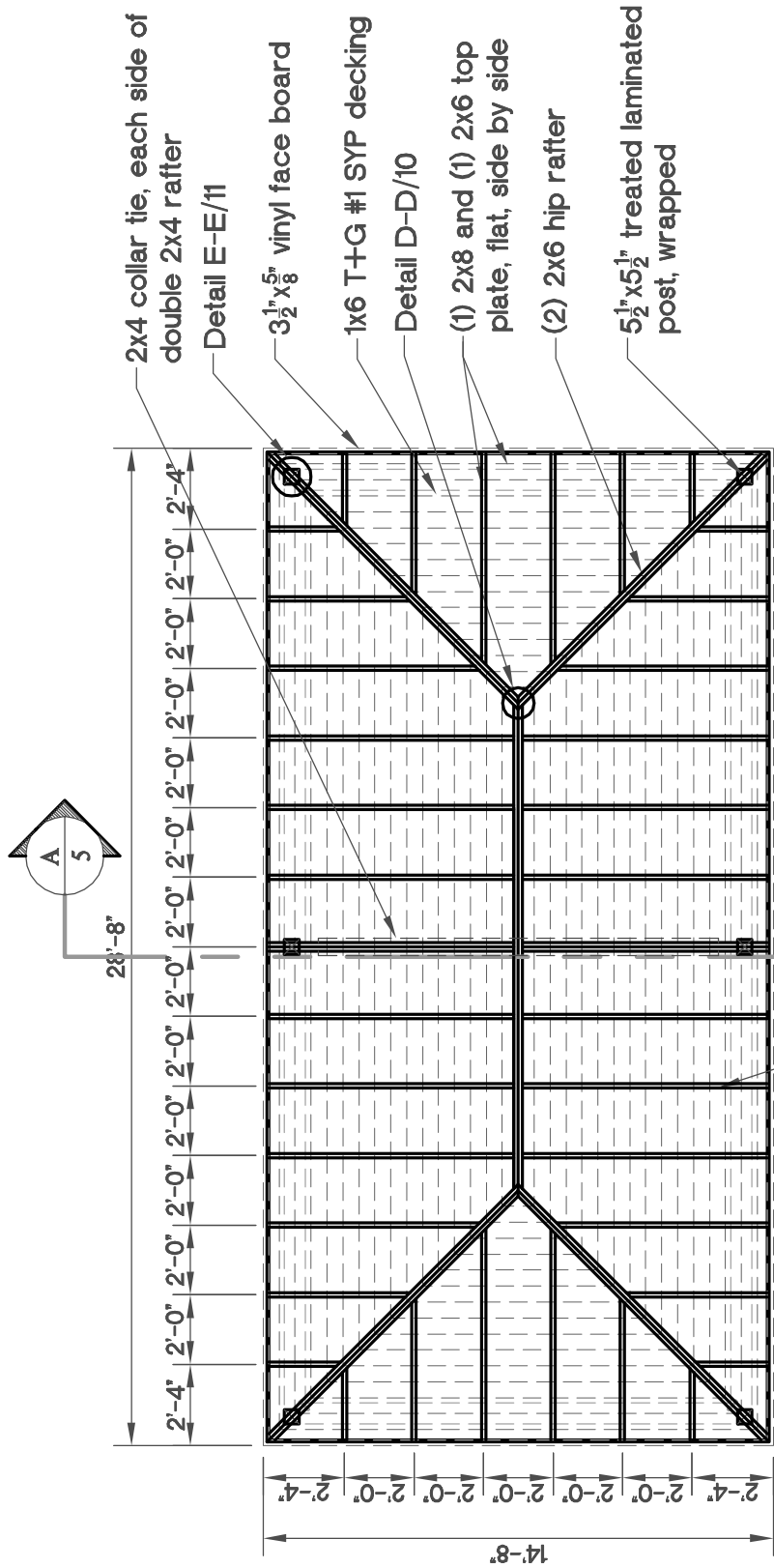


Note: Proper orientation of posts is required.

# Post Layout Plan

Scale 1/4" = 1'-0"

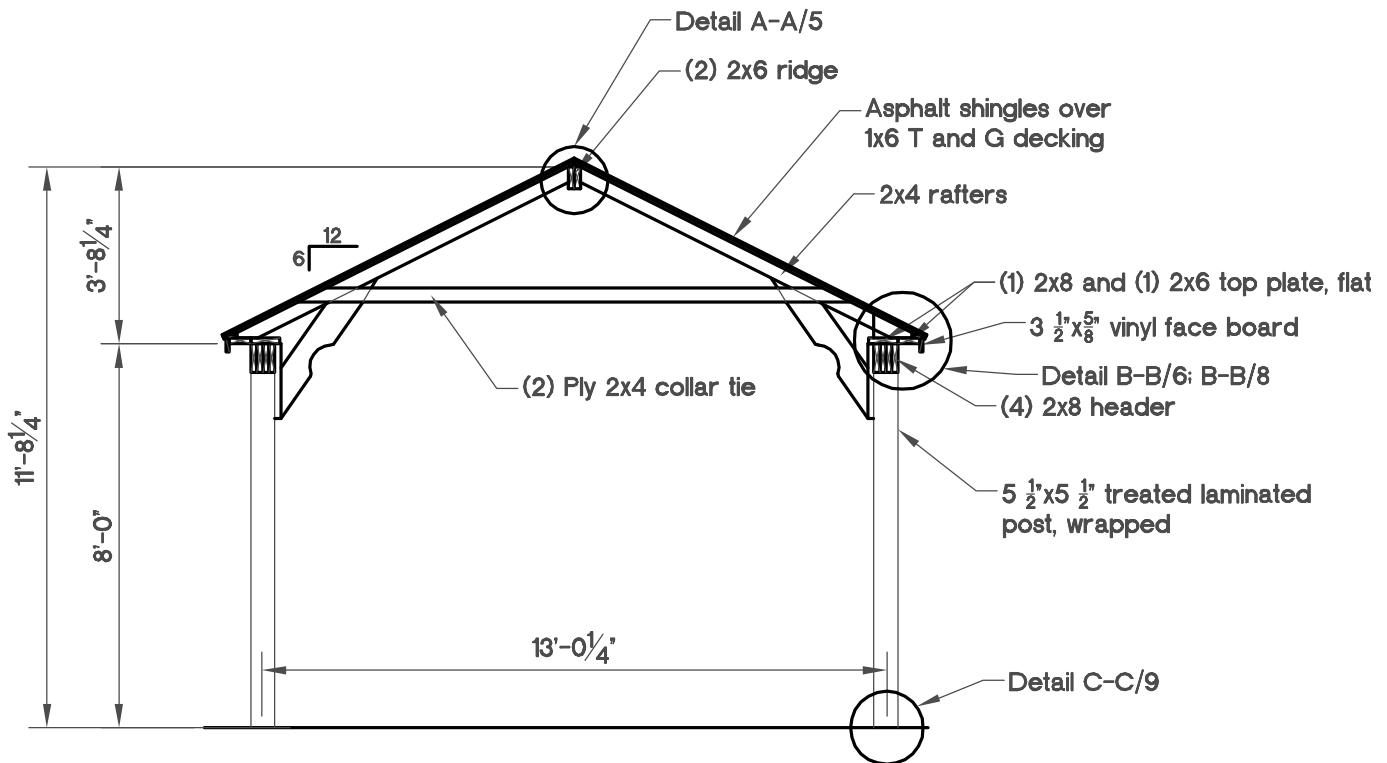
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Roof Framing Plan

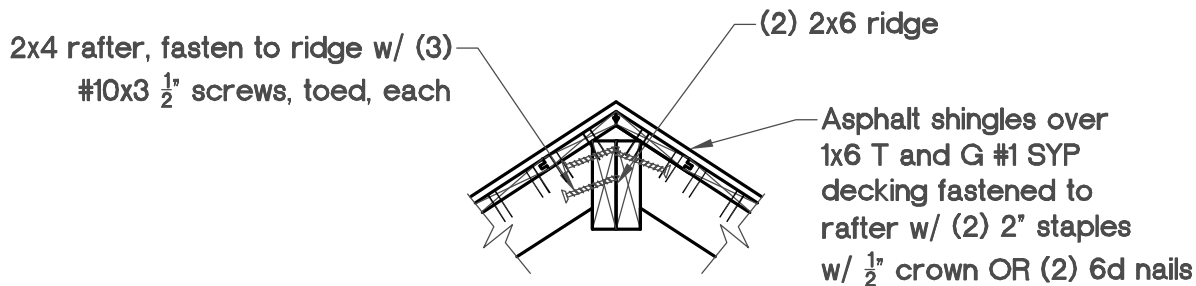
Scale 3/16" = 1'-0"

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## Cross Section A/5

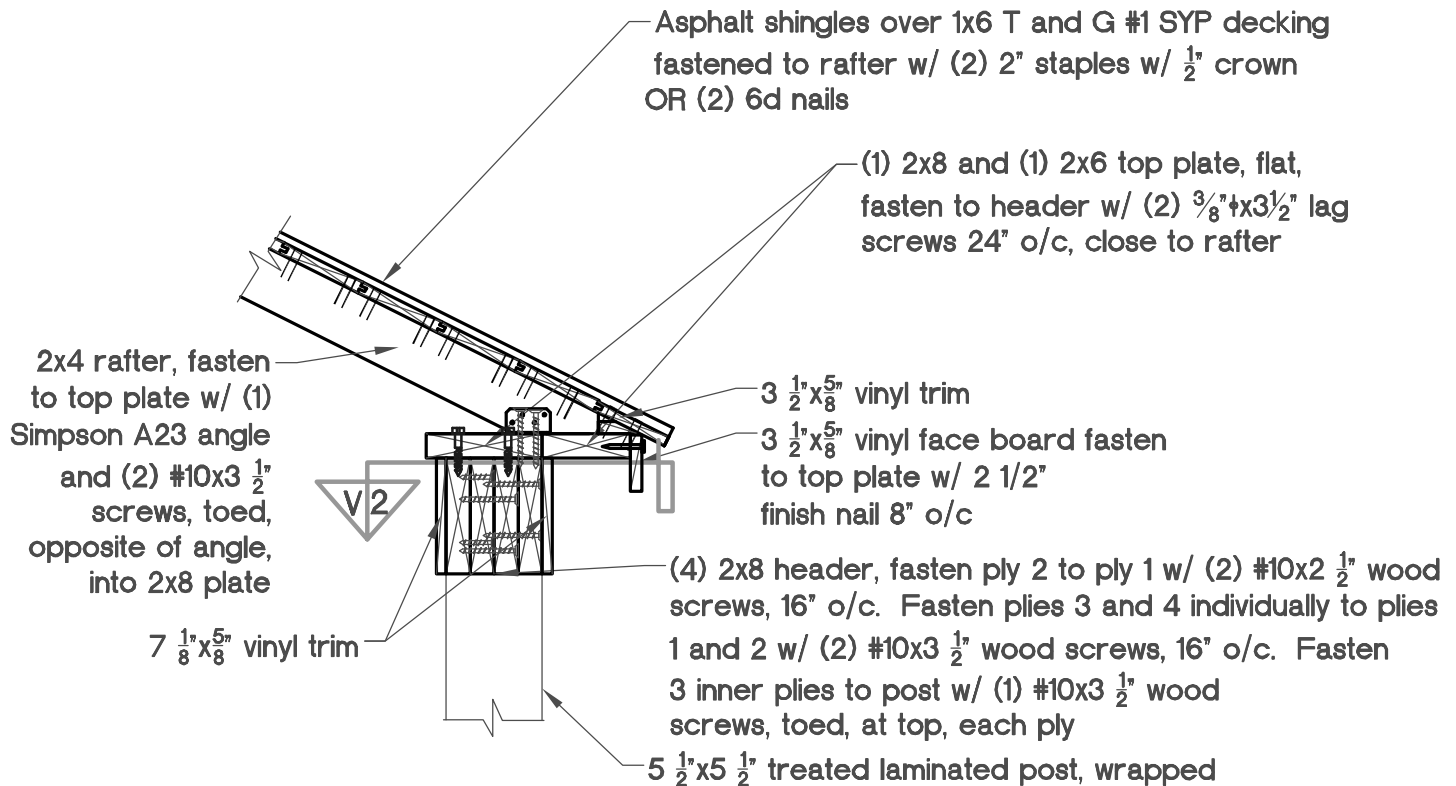
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## Detail A-A/5 Typical Single Rafter

Scale 1" = 1'-0"

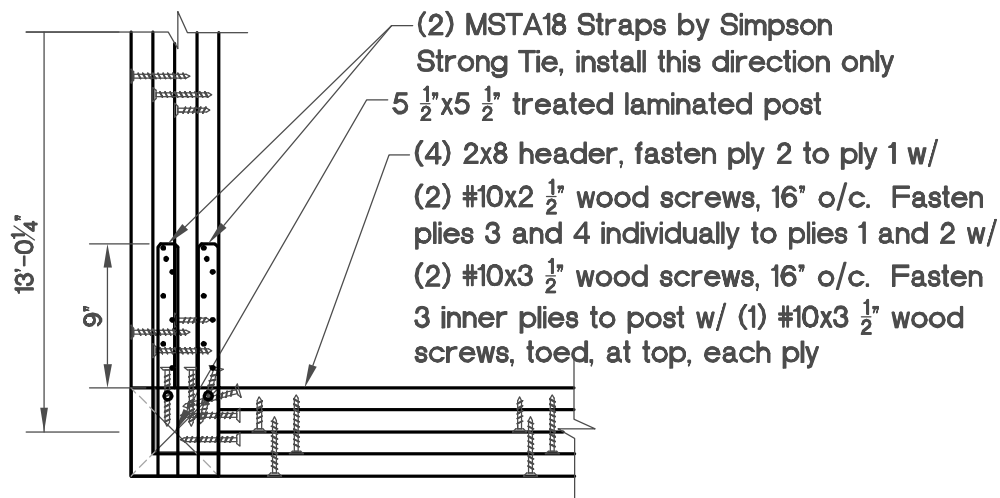
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## Detail B-B/6

### Typical Single Rafter

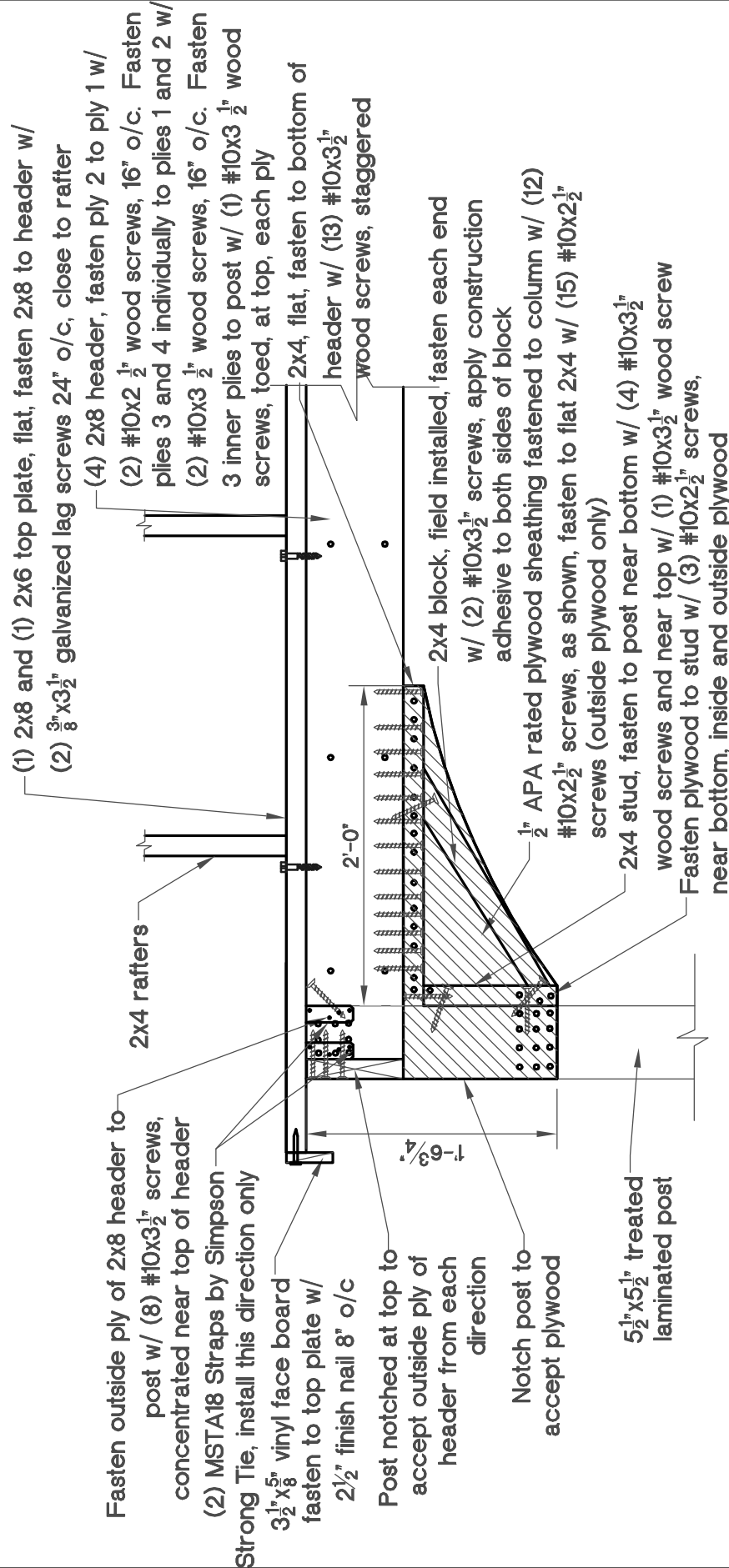
Scale 1" = 1'-0"



## View 2 Detail B-B/6

Scale 1" = 1'-0"

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## View 1 Detail B-B/6

Scale 1" = 1'-0"



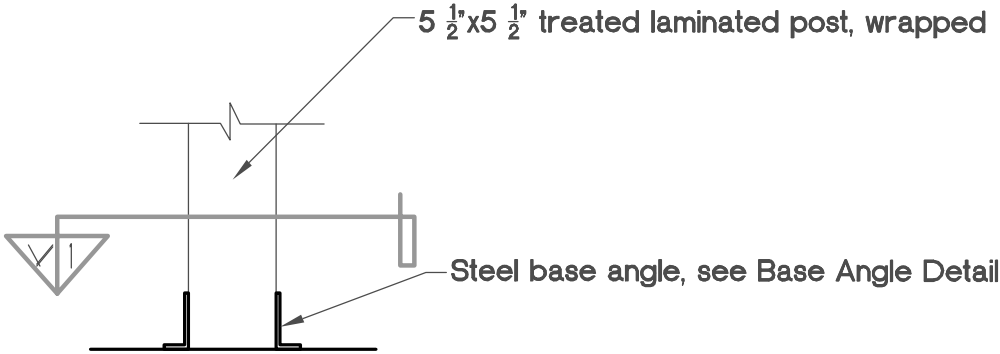
- Asphalt shingles over 1x6 T and G #1 SYP decking fastened to rafter w/ (2) 2" staples w/  $\frac{1}{2}$ " crown OR (2) 6d nails



### Hip Rafter Connection Option 2

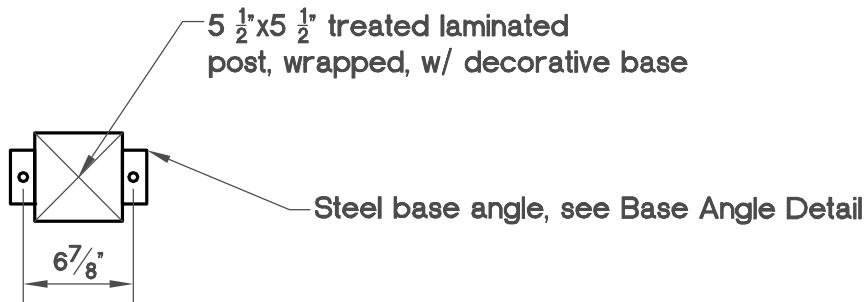


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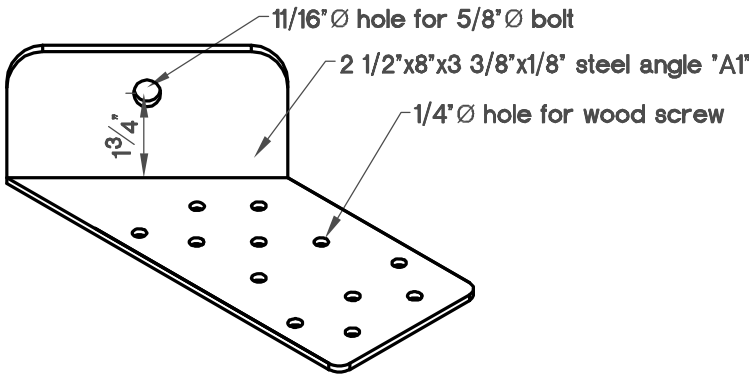
Detail C-C/9

Scale 1" = 1'-0"



View 1 Detail C-C/9

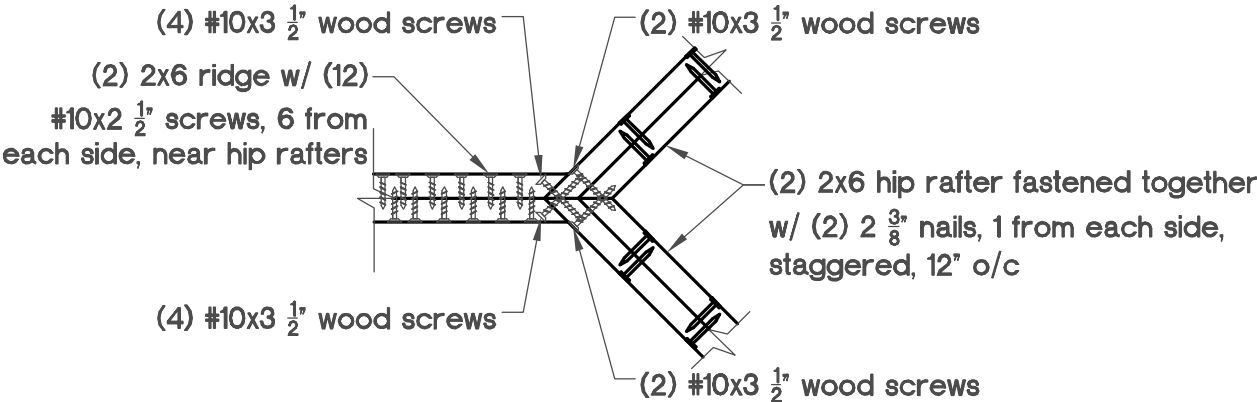
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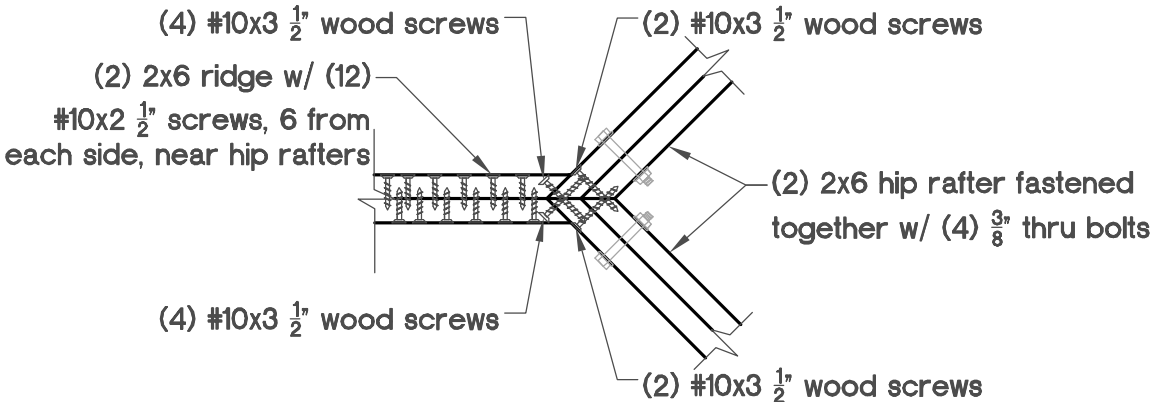
Angle "A1"

Scale 3" = 1'-0"

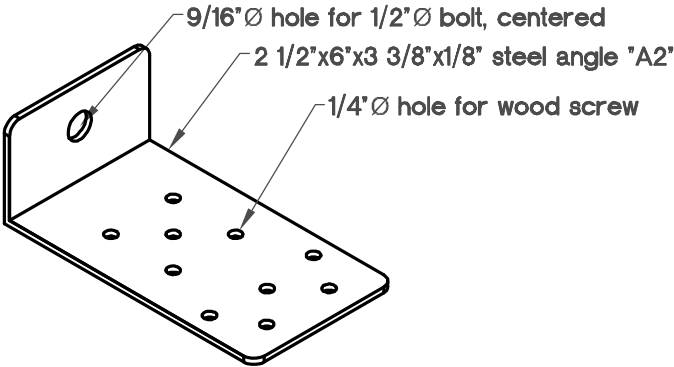
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**Detail D-D/10** Scale 1" = 1'-0"  
Option 1

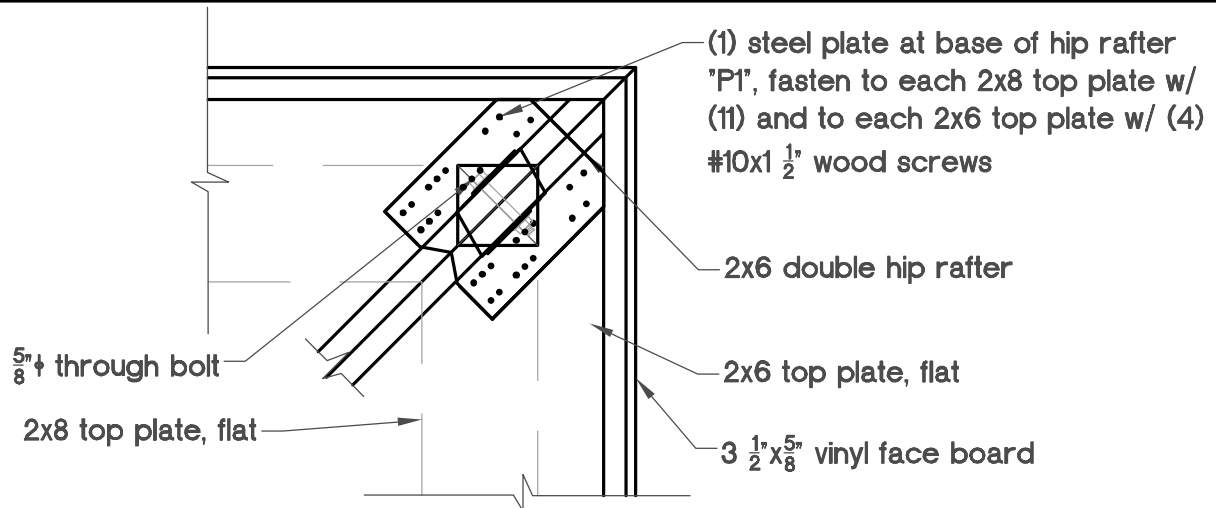


**Detail D-D/10** Scale 1" = 1'-0"  
Option 2



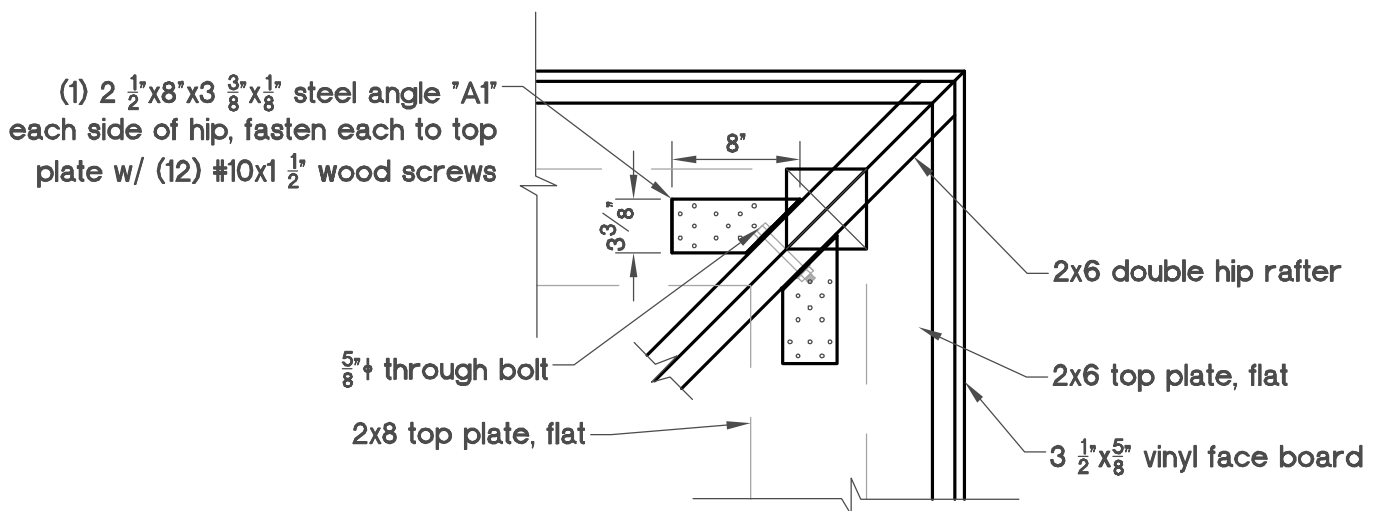
**Angle "A2"** Scale 3" = 1'-0"

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**Detail E-E/11**  
Option 1

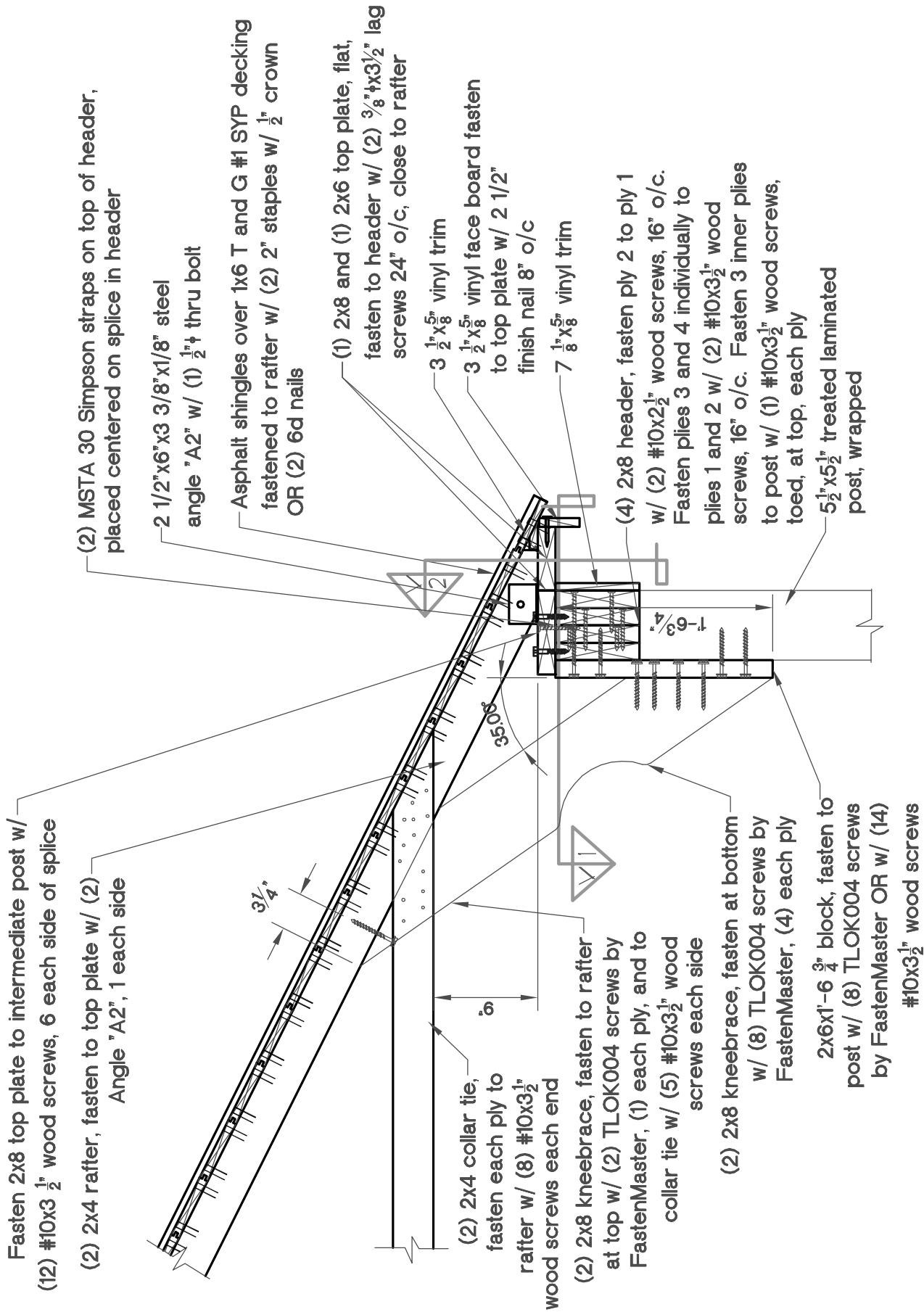
Scale 1" = 1'-0"



**Detail E-E/11**  
Option 2

Scale 1" = 1'-0"

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## Detail F-F/12

Center Double Rafter

Scale 1" = 1'-0"

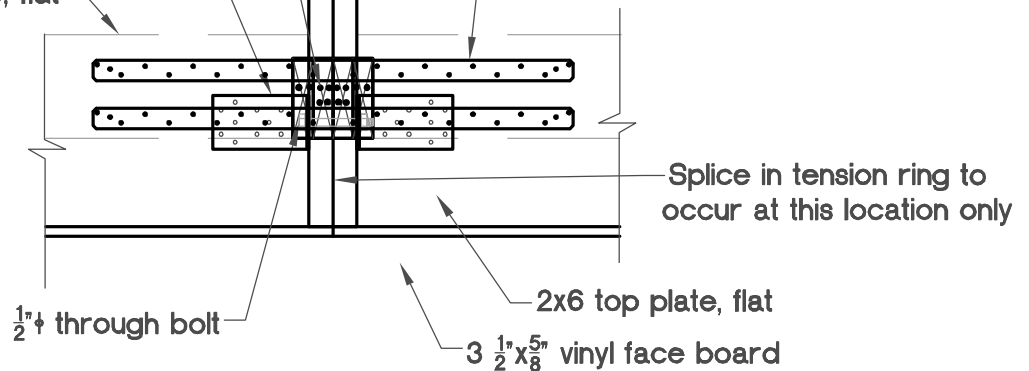
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Fasten 2x8 top plate to intermediate post w/  
(12) #10x3  $\frac{1}{2}$ " wood screws, 6 each side of splice

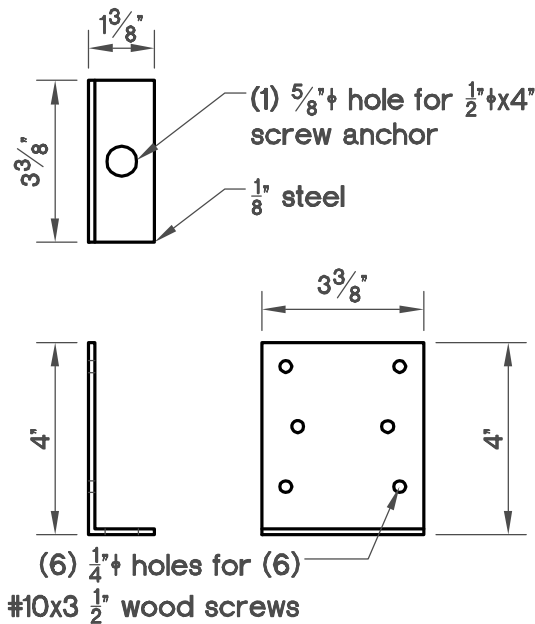
(1) 2  $\frac{1}{2}$ "x6"x3  $\frac{3}{8}$ "x $\frac{1}{8}$ " steel angle "A2"  
each side of double rafter, fasten each  
to top plate w/ (10) #10 wood screws  
(1  $\frac{1}{2}$ " screws typical except (2) 3  $\frac{1}{2}$ " screws)  
2x8 top plate, flat

2x4 double rafter, fasten  
to 2x8 tension ring w/ angle "A2"  
and (1) #10x3  $\frac{1}{2}$ " screw, each ply

(2) MSTA 30 Simpson straps on  
top of header, placed centered  
on splice in header, between top  
plate and header



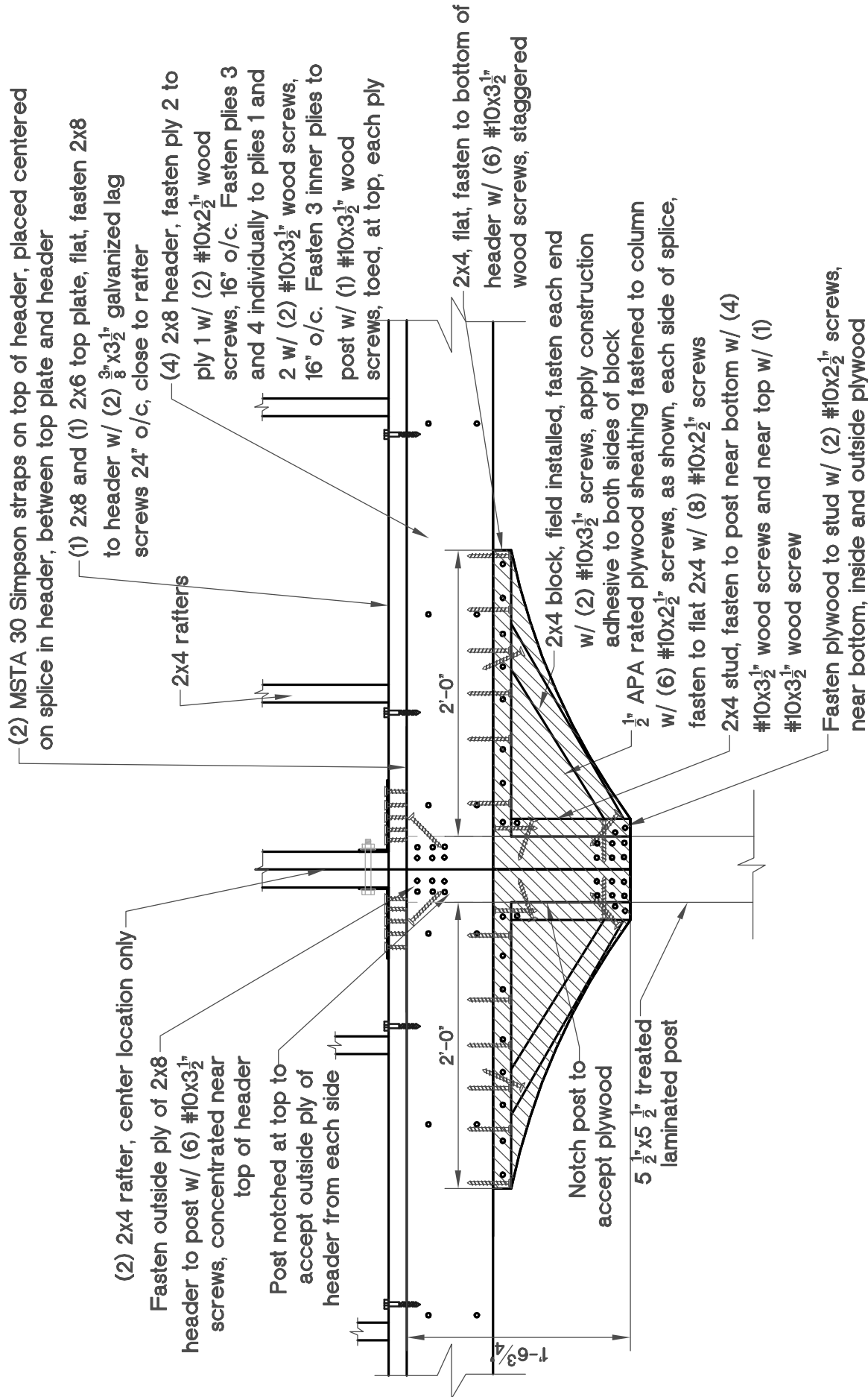
**View 1 Detail F-F/12** Scale 1" = 1'-0"



**Base Angle Detail**

Scale 3" = 1'-0"

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View 2 Detail F-F/12

Scale 1" = 1'-0"

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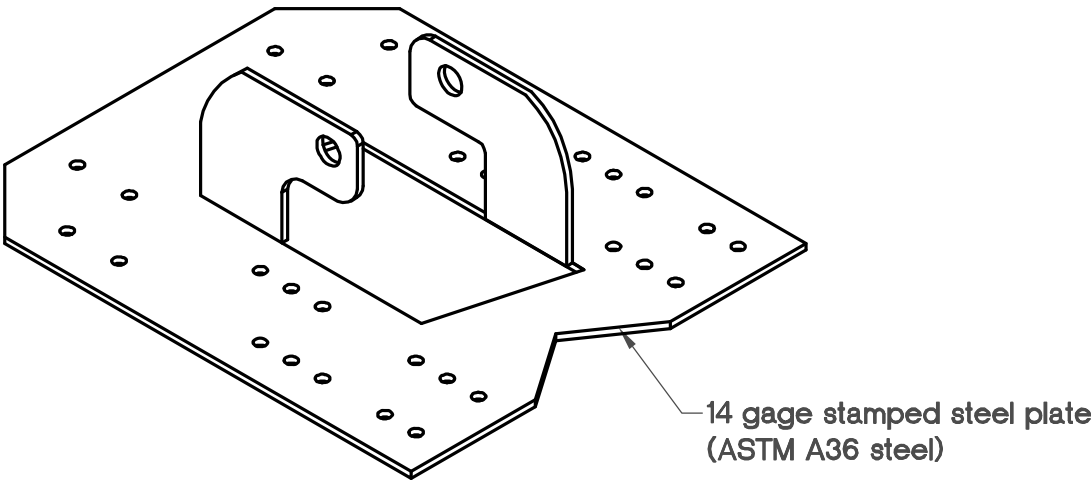


Plate "P1" ISO

Scale 3" = 1'-0"

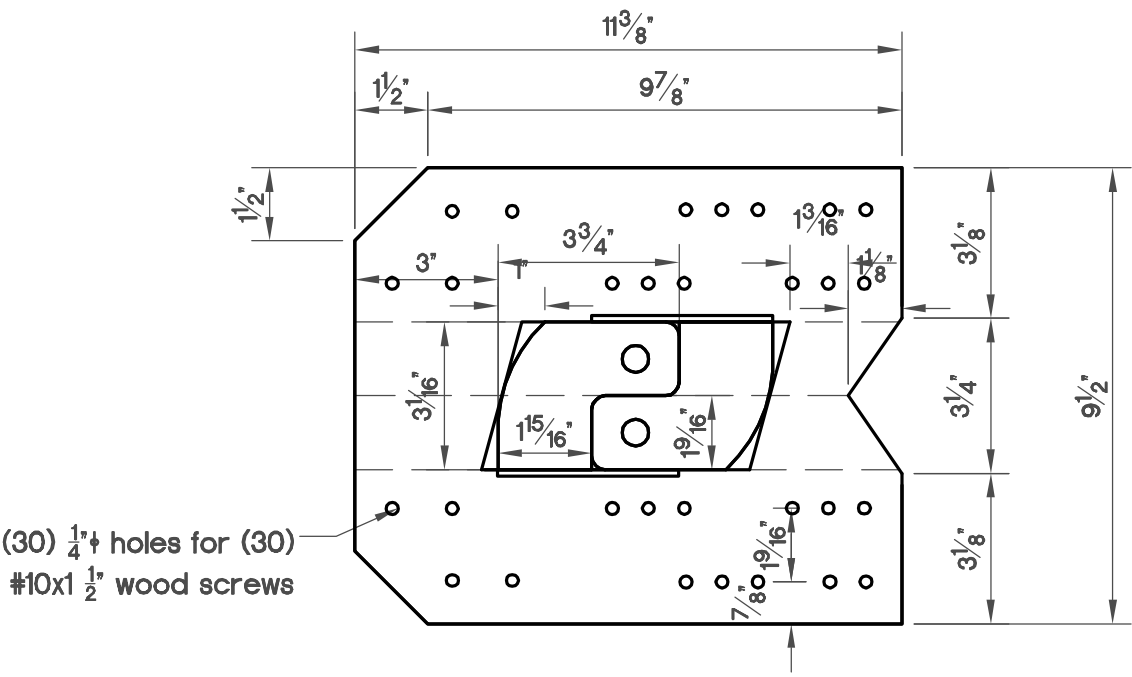
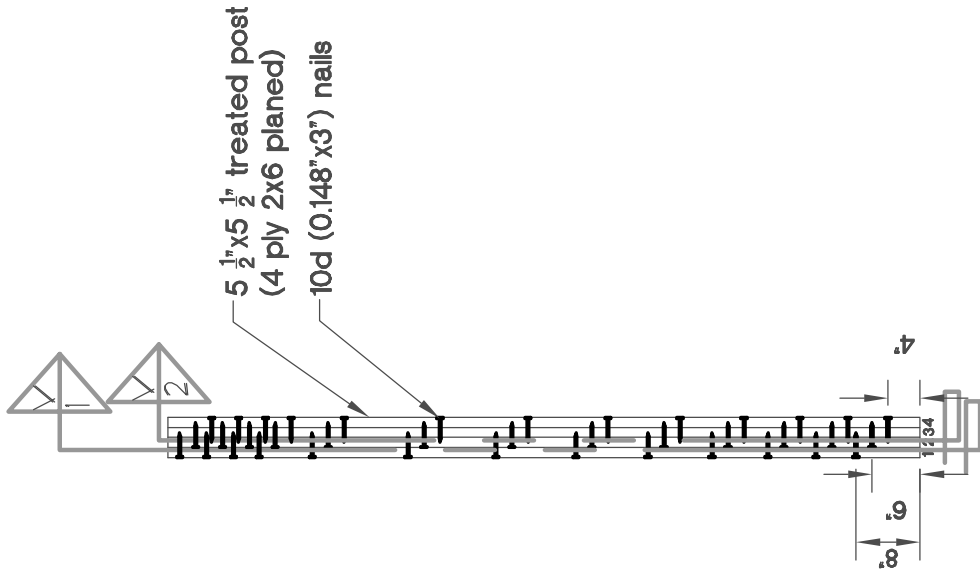


Plate "P1"

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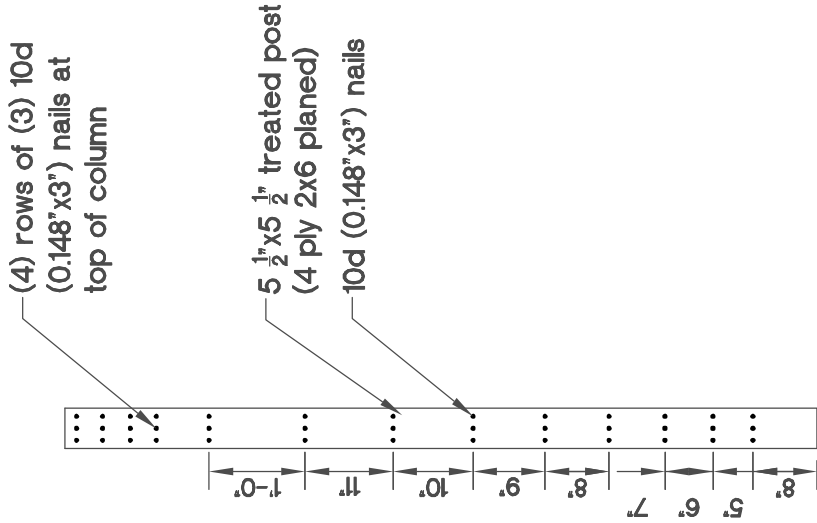
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Nail-Laminated Post

Nailing Detail

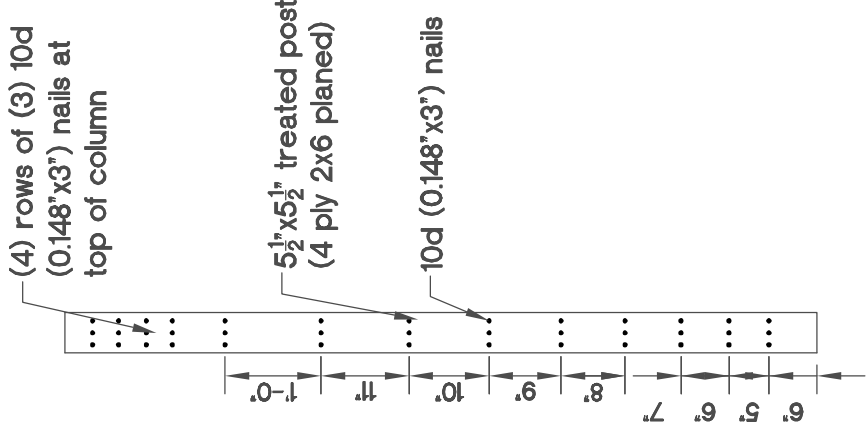
Scale 1/2" = 1'-0"



View 1

Nailing Detail for Ply 2 to Ply 3

Scale 1/2" = 1'-0"



View 2

Nailing Detail for Ply 1 to Ply 2

Scale 1/2" = 1'-0"