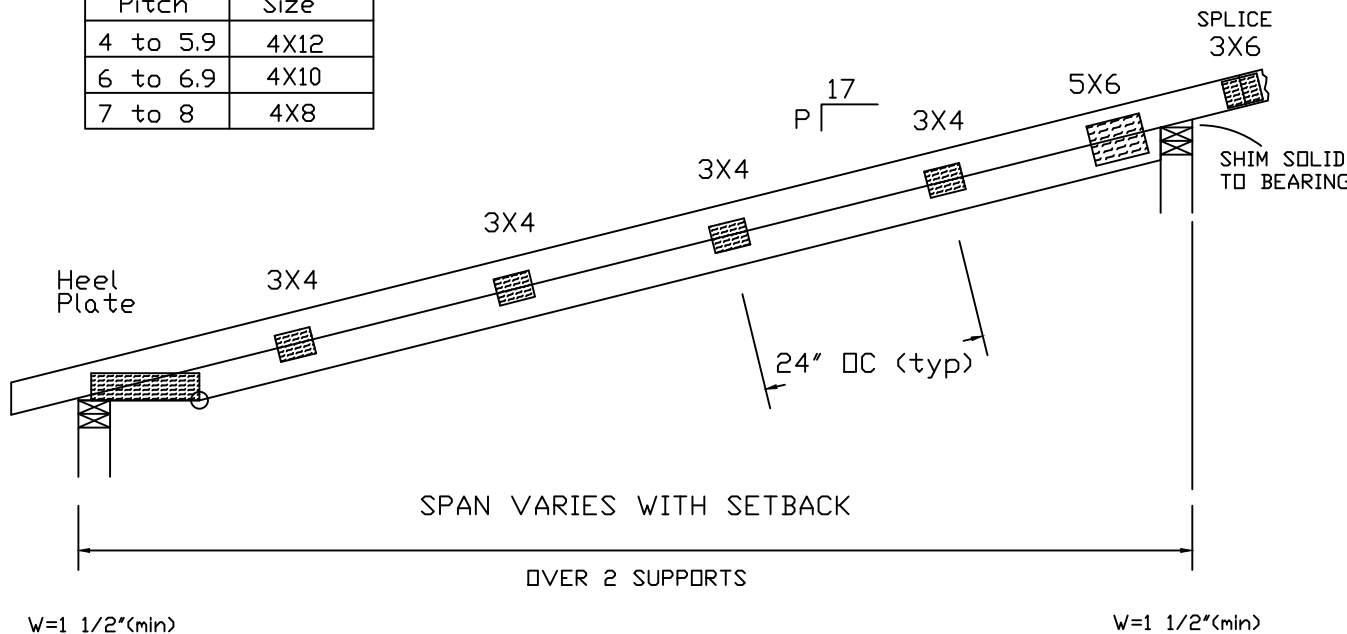
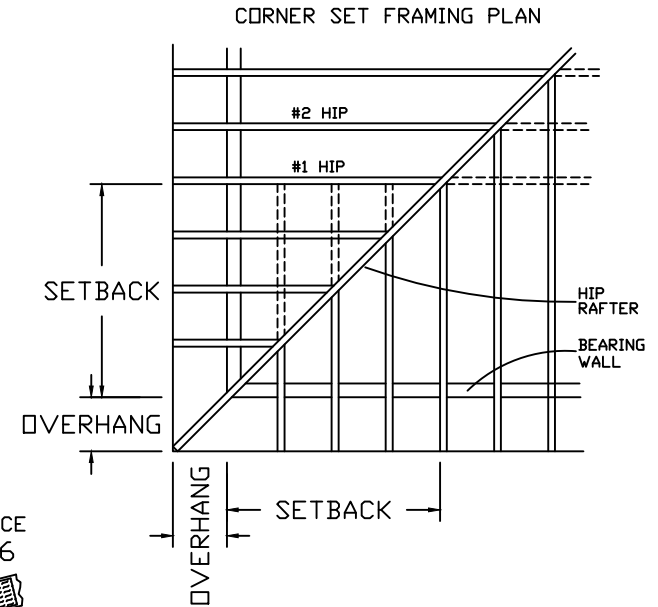


# STACKED 2X4 HIP RAFTER DETAIL

Minimum Grade	
Species	Grade
Hem-Fir	#2
SPF	#2
SPF(s)	S.Struct.
So.Pine	#2N
DF-L	#2
MSR	1350f-1.3E

Maximum Setback For Typical Loads			
Live Load	Dead Load	Duration	Max. Setback
20 psf	10 psf	1.25	8'0"
16 psf	14 psf	1.25	8'0"
25 psf	10 psf	1.15	7'9"
30 psf	10 psf	1.15	7'4"
30 psf	15 psf	1.15	7'1"

Heel Plate Size	
Pitch	Size
4 to 5.9	4X12
6 to 6.9	4X10
7 to 8	4X8



### General Notes:

Deflection limited to Span/240 for live load and Span/180 for total load.

P=Roof pitch (rise in inches per foot)  
This design for roof pitch 4:12 to 8:12.

Maximum overhang length = 24"

Hip rafter overhang = 34"

Top rafter may extend past #1 hip. Support extension periodically at hip trusses. See hip truss designs for support interval. Splice only in extended top rafter.

Provide uplift connections at ends of rafter. U=730 at corner; U=540 at #1 hip, based on ASCE 7, components & cladding, wind speed 90 MPH exposure C or 110 MPH exposure B, Kzt = 1.00



**WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING**  
**IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.  
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.  
 A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.  
 For more information see this Job's general notes page and these web sites:  
 ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinst.org](http://www.tpinst.org); SBCA: [www.sbcacomponents.com](http://www.sbcacomponents.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)

TC LL	See Above
TC DL	See Above
BC DL	N/A
BC LL	N/A
TOT. LD.	See Above

REF	HIP RAFTER
DATE	10/01/14
DRWG	HPRAFT241014