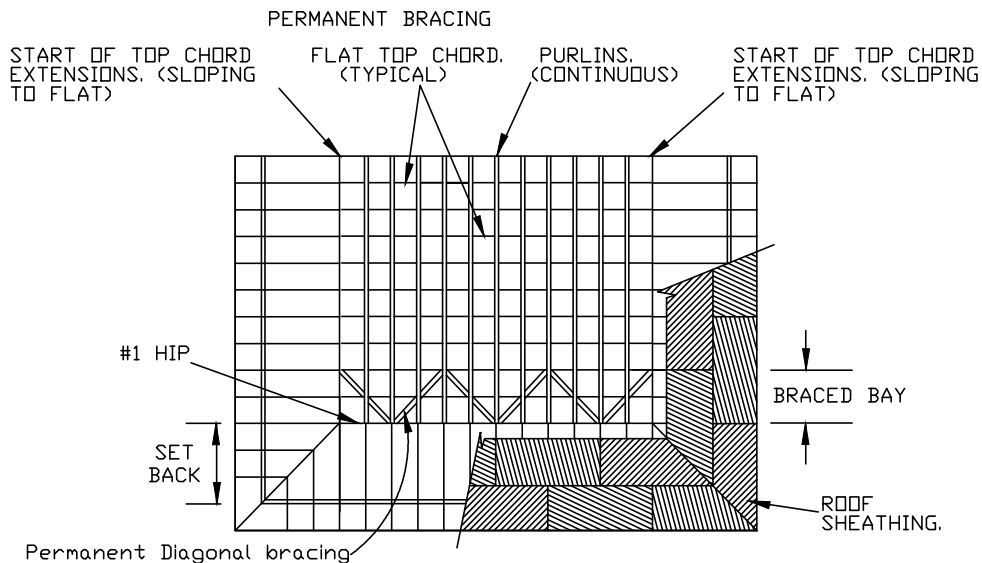
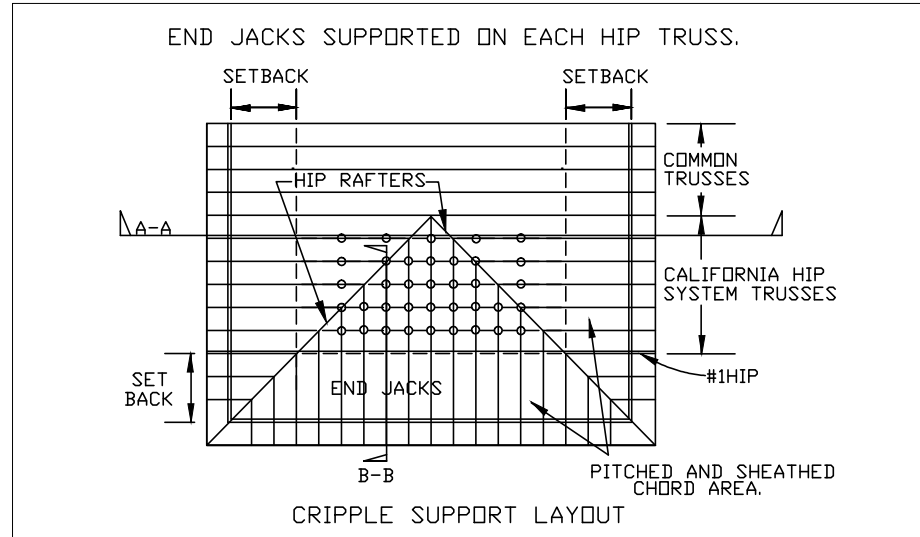


# CALIFORNIA HIP PERMANENT BRACING DETAIL FOR HIPS WITH STANDARD LOAD

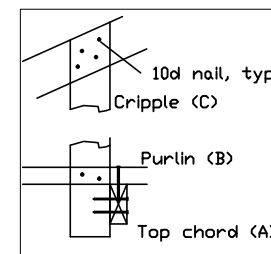
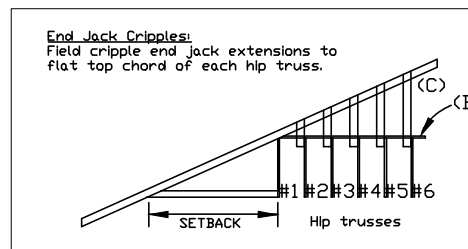
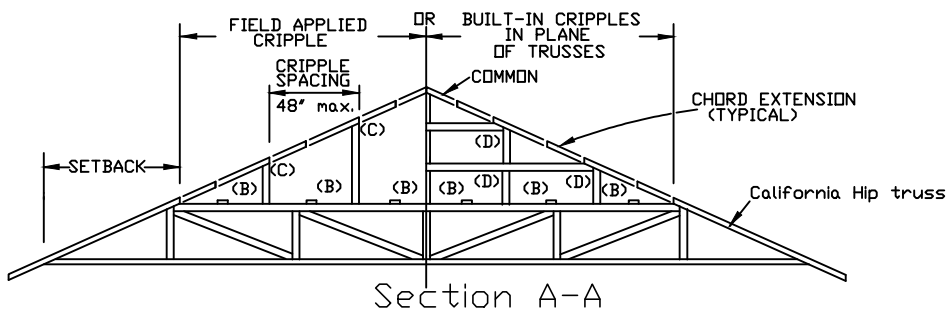


Permanent diagonals form braced bays. Repeat at all hip ends. Maximum interval equals 20 ft. Note: The first braced bay at the #1 hip can be excluded when the following conditions are met:  
 1) Continuous purlins are attached to the flat top chord of the #1 hip.  
 2) The end jacks are sheathed with properly attached structural panels.

Note: Conventional framing, including cripples and their connections, is not the responsibility of the truss designer, plate manufacturer, or truss fabricator. Persons erecting trusses are cautioned to seek advice of a local professional engineer regarding conventional framing. Trusses shall be designed for the appropriate tributary area.



Wind: Maximum wind speed 120 mph, Exp. C, Cat. II, 30 ft. mean roof height and 5 psf minimum dead load.  
 Connect cripples to rafter extensions with (3)10d nails (0.128x3"), and to top chord of hip truss and purlin with (2) 10d nails. -OR- Butt cripples to jack rafter and hip truss top chord, and provide connection for 200# uplift each end using (2)8d toe-nails (0.131"x2.5") and (1)ITWBCG HT2.5 clip or equivalent.  
 (A) Hip truss top chord. (B) 2X4 continuous purlin, 24" o/c typ.  
 (C) CRIPPLES: o - Cripple Location. (2' o.c. cripple spacing shown)  
 Cripples support extended top chords of end jacks, hip jacks, and hips.  
 Material: 2X4 SPF, HF, DF-L, or So.Pine Standard/Stud/#3 min. grade.  
 Max. cripple length = 6'3". Max. 40 psf Snow Load + 14 psf Dead Load.  
 (D) Cripples and horizontal false top chords may be built into truss.



Section B-B

Cripple Connections



13389 Lakefront Drive  
 Earth City, MO 63045

**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 B5, 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.tpinet.org](http://www.tpinet.org); SBCA: [www.sbciindustry.org](http://www.sbciindustry.org); ICC: [www.iccsafe.org](http://www.iccsafe.org)

See truss drawings for specific design information.	REF CALIF. BRACE
	DATE 10/01/14
	DRWG BR24CHIP1014
Design Crit.: NDS-2012	
Spacing: 24" oc, typ.	