

# VALLEY DETAIL 140MPH

TOP CHORD 2x4 SP #2  
 BOT CHORD 2x4 SP #2N, 2x4 SPF #2  
 WEBS 2x4 SP #3

\*\* ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:  
 560# CONNECTION OR WITH (2) SIMPSON H5 CONNECTORS  
 OR EQUIVALENT.

++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT  
 DOES NOT EXCEED 14-0-0

NOTE: BOTTOM CHORD MAY BE SQUARE CUT OR PITCHED CUT.

(X) 2x6 SP/DLF #2 OF BETTER SLEEPER. ATTACH THROUGH SHEATHING TO  
 TRUSSES BENEATH WITH (3) 16d (0.162"x3 1/2") COMMON OR (4) GUN  
 NAILS (0.128"x3").

(Y) ATTACH BOTTOM CHORD OF VALLEY GABLE TO SLEEPER WITH  
 16d COMMON (0.162"x3 1/2") NAILS @ 6" O.C. OR GUN NAILS @ 4" O.C.

(Z) VALLEY GABLE TRUSS. FOR ENCLOSED BUILDING REFER TO A14030051014  
 (ASCE 7-05), FOR PART. ENCLOSED BUILDING REFER TO A140GC1014  
 FOR GABLE END DETAILS.

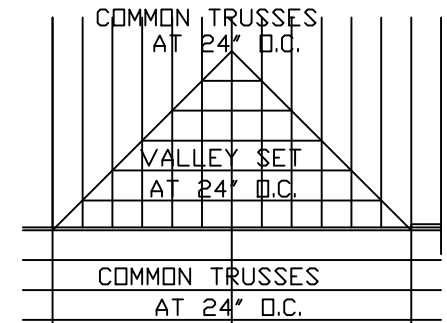
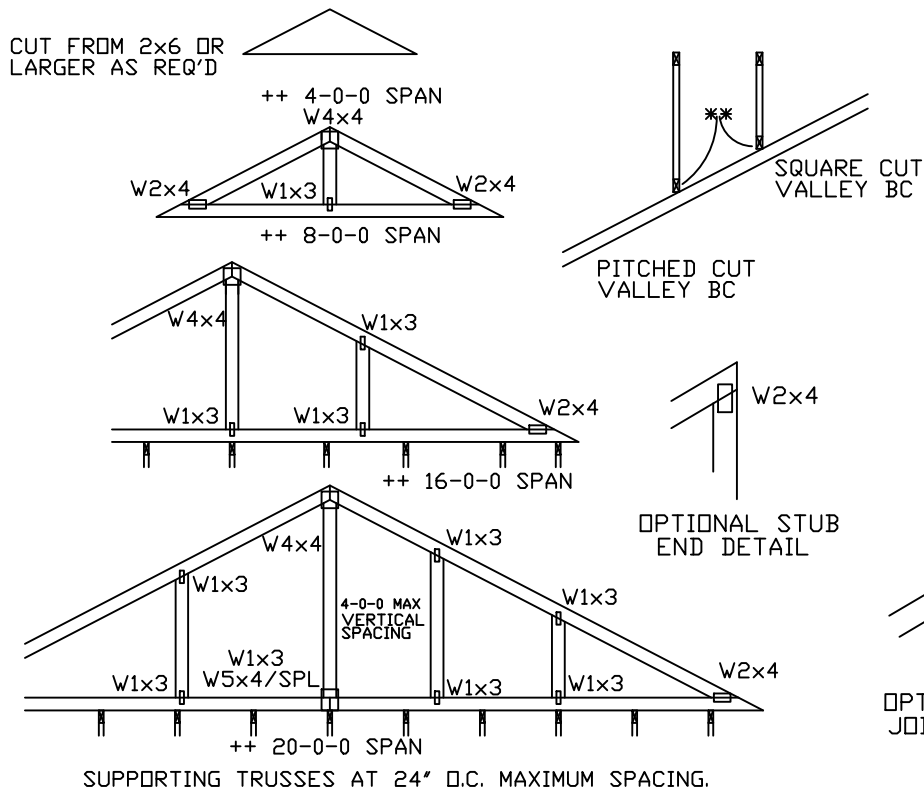
IN LIEU OF 1x4 "T" BRACING, 1x4 #3 HEM-FIR (OR BETTER) CONTINUOUS  
 LATERAL BRACING MAY BE USED. ATTACH WITH (2) 8d BOX (0.113"x2 1/2")  
 OR (2) 0.128"x3" GUN NAILS. BRACING MATERIAL TO BE ATTACHED AT BOTH  
 ENDS TO A SUITABLE SUPPORT.

FOR VERTICALS OVER 7'-9" TALL, APPLY (1) 1x4 "T" BRACE TO  
 NARROW FACE, SAME GRADE AS WEB MEMBER, ATTACH WITH 8d BOX  
 (0.113"x2 1/2") OR 0.128"x3" GUN NAILS @ 6" O.C., STAGGERED.

TRUSS TOP CHORDS UNDER VALLEY SET MUST HAVE SHEATHING ATTACHED  
 TO THEM WITH NAILS SPACED PER CODE REQUIREMENTS, OR PROPERLY  
 ATTACHED VALLEY TRUSSES MAY BE USED IN LIEU OF SHEATHING OR  
 PURLINS, SEE NOTE (\*\*)

140 MPH WIND, 30 FT MEAN HGT, ASCE 7-05 PART. ENC. BLDG, LOCATED  
 ANYWHERE IN ROOF, CAT II, EXP. C, WIND TCDL=5.0 PSF, WIND  
 BCDL=5.0 PSF, Kzt = 1.00

140 MPH WIND, 30 FT MEAN HGT, ASCE 7-02 PART. ENC. BLDG, LOCATED  
 ANYWHERE IN ROOF, CAT II, EXP. C, WIND TCDL=5.0 PSF, WIND  
 BCDL=5.0 PSF, 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; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



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TC LL	20	OR	30PSF	REF	VALLEY DETAIL
TC DL	20	OR	15PSF	DATE	10/01/14
BC DL	10	OR	10 PSF	DRWG	VAL1401014
BC LL	0	OR	0 PSF		
TOT. LD.	50	OR	55PSF		
DUR.FAC.	1.25				
SPACING	24"				