

# VALLEY TRUSS DETAIL

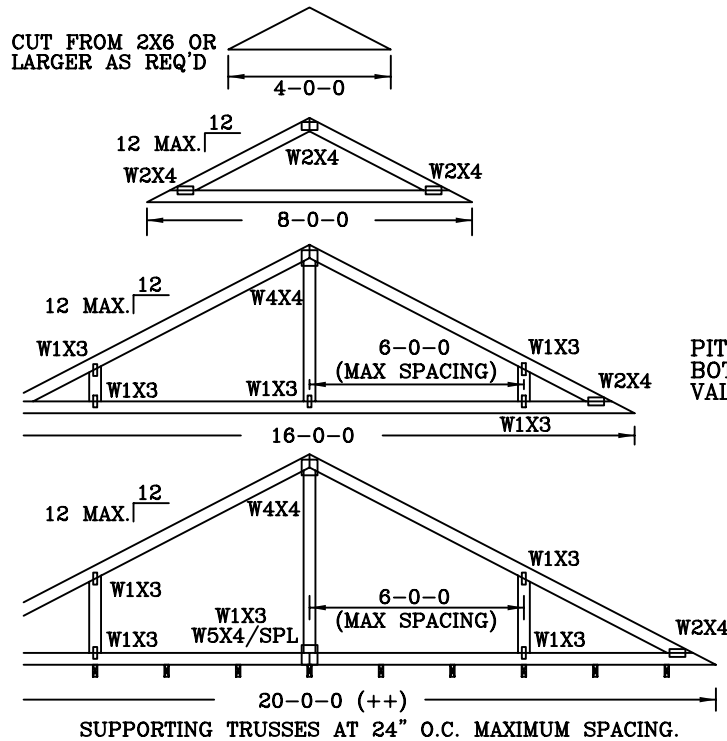
TOP CHORD 2X4 SP #2N, SPF #1/#2, DF-L #2 OR BETTER.  
 BOT CHORD 2X4 SP #2N OR SPF #1/#2 OR BETTER.  
 WEBS 2X4 SP #2N, SPF #1/#2, DF-L #2 OR BETTER.

**\*\* ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:**  
 (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR  
 SBC 110 MPH, ASCE 7-93 110 MPH OR ASCE 7-98,  
 ASCE 7-02 OR ASCE 7-05 130 MPH. 30' MEAN  
 HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL,  
 WIND TC DL=5 PSF, Kzt = 1.00

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80%  
 LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED  
 WITH 8d BOX (0.113" X 2.5") NAILS AT 6" O.C., OR CONTINUOUS LATERAL BRACING,  
 EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'-9".

FOR VERTICALS OVER 10'-0" TALL, APPLY (2) 1x4 "T" BRACE, TO  
 NARROW FACE, SAME GRADE AS WEB MEMBER, ATTACH WITH 8d OR 0.128"x3"  
 GUN NAILS @6" O.C., STAGGERED.

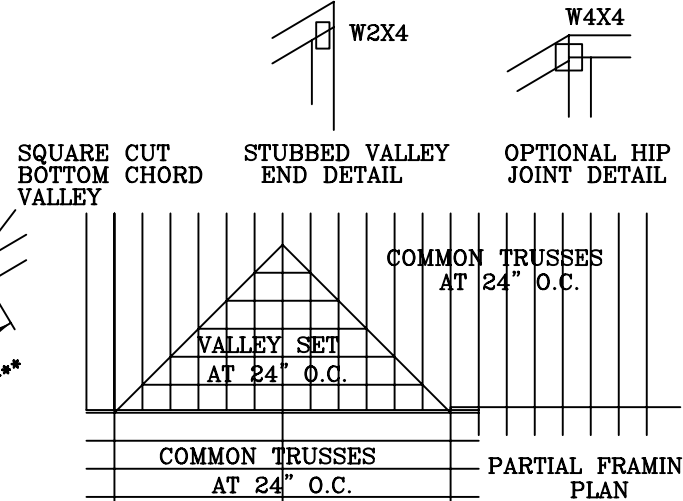
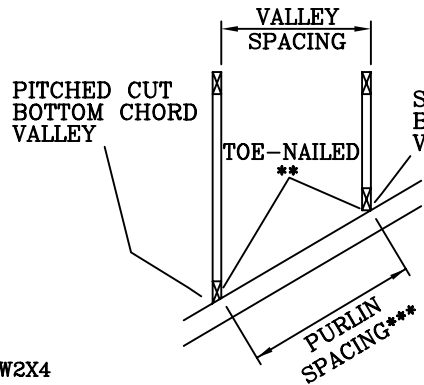
TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:  
 PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS  
 INSTALLATION  
 OR  
 PURLINS AT 24" O.C. OR AS OTHERWISE SPECIFIED ON ENGINEER'S SEALED DESIGN  
 OR  
 BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON  
 ENGINEER'S SEALED DESIGN.



**\*\*\* NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS  
 BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.**

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

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



Building Components Group Inc.

Earth City, MO 63045

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET**  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow  
 BCSI (Building Component Safety Information, by TPI and WTCA) 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 panels 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. See this job's general notes page for more information.

**\*\*IMPORTANT\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.**  
 ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design,  
 any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing &  
 bracing of trusses. ITWBCG connector plates are made of 20/18/16GA (W.1/3/5) ASTM A653 grade 37/40/60  
 (K/W/B/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on joint details.  
 A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely  
 for the truss component design shown. The suitability and use of this component for any building is the  
 responsibility of the Building Designer per ANST/TPI 1 Sec. 2.  
 ITW-BCG: www.itwbcg.com; TPI: www.tpinst.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

TC LL	30	30	40 PSF	REF	VALLEY DETAIL
TC DL	20	15	7 PSF	DATE	1/1/09
BC DL	10	10	10 PSF	DRWG	VAL1300109
BC LL	0	0	0 PSF		
TOT. LD.	60	55	57 PSF		
DUR.FAC.	1.25/1.33	1.15/1.15			
SPACING	24"				