

# 140GC

140 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02, PART. ENC, BLDG, LOCATED ANYWHERE IN ROOF, CAT II EXP C, Kzt = 1.00, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

140 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-05, PART. ENC, BLDG, LOCATED ANYWHERE IN ROOF, CAT II EXP C, Kzt = 1.00, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

+ FOR VERTICAL STUDS LESS THAN 4' 0": W1.5x4  
FOR VERTICAL STUDS GREATER THAN 4' 0" BUT NO MORE THAN 11' 6": W3.5x4

\* SPLICE, PEAK, AND HEEL PLATES TO MATCH COMMON TRUSS.

\*\* 2x4 OR GREATER CHORDS.

DROP GABLE WILL SUPPORT 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG (DROP HEEL GABLE) SPACING 24" O.C. OR THE LOAD FROM 12" PLYWOOD OVERHANG (NOMINAL HEEL GABLE).

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO DESIGN THE ROOF AND CEILING DIAPHRAGMS AND SPECIFY CONNECTIONS TO TRANSFER ALL OUT-OF-PLANE LOADS INTO THE ROOF AND CEILING DIAPHRAGMS.

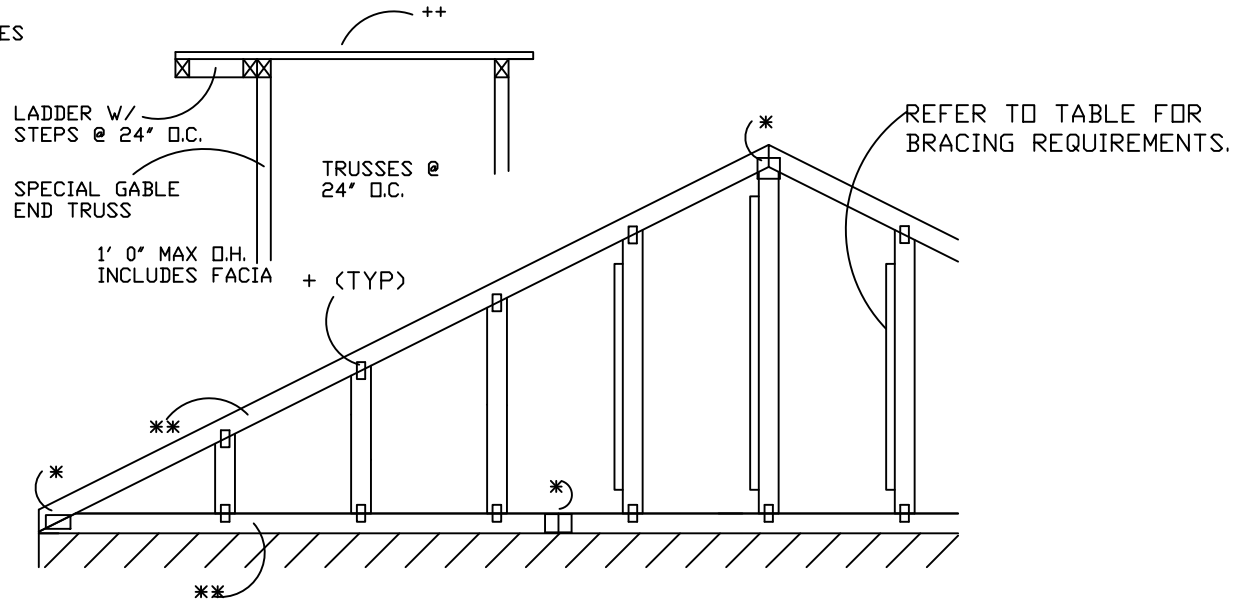
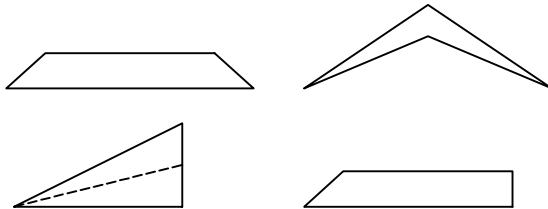
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE GABLE SHEAR WALL DESIGN, CEILING AND ROOF SHEATHING DIAPHRAGM CONNECTIONS, AND ALL TRUSS TO WALL CONNECTIONS.

++ 7/16 MINIMUM APA RATED SHEATHING PROPERLY ATTACHED WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS.

NOTE: NAIL STEPS OF LADDER TRUSS ONTO THE OUTSIDE PIECES WITH 2-16d (0.162"x3.5") NAILS AT EACH END.

NOTE: ATTACH LADDERTRUSS TO TOP CHORD OF GABLE TRUSS WITH TWO ROWS OF 16d (0.162"x3.5") NAILS @ 8" O.C. STAGGERED 4".

ALT. GABLE SHAPES:



**BRACING DEFINITIONS:**  
NOTE: "END ZONE" EXISTS 18" AT BOTH ENDS OF VERTICAL WEB.

(A) (1) 2x4 SP #3 "L" BRACE. ATTACH WITH 0.128"x3" NAILS @ 2" O.C. IN END ZONE; 4" O.C. BETWEEN ZONES.

(B) (2) 2x4 SP #3 "L" BRACES. ATTACH EACH WITH 0.128"x3" NAILS @ 3" O.C. IN. END ZONE; 6" O.C. BETWEEN ZONES.

(C) (1) 2x6 SP #2N "L" BRACE. ATTACH WITH 0.128"x3" NAILS @ 2" O.C. IN END ZONE; 4" O.C. BETWEEN ZONES.

(D) (2) 2x6 SP #2N "L" BRACE. ATTACH EACH WITH 0.128"x3" NAILS @ 3" O.C. IN. END ZONE; 6" O.C. BETWEEN ZONES.

**STUD SPACING / BRACING TABLE: (MAX LENGTH)**

2x4 SP #3 STUD SPACING	DEFLEC-TION CRITERIA	(1) 2x4 "L" BRACE TYPE (A)	(2) 2x4 "L" BRACE TYPE (B)	(1) 2x6 "L" BRACE TYPE (C)	(2) 2x6 "L" BRACE TYPE (D)
24"	L/360	3' 1"	4' 2"	6' 3"	8' 0"
24"	L/180	3' 4"	5' 7"	6' 3"	11' 0"
16"	L/360	3' 11"	5' 3"	7' 10"	9' 11"
16"	L/180	4' 9"	7' 4"	9' 6"	11' 0"
12"	L/360	4' 7"	6' 1"	8' 11"	11' 0"
12"	L/180	5' 11"	8' 5"	11' 0"	11' 0"

**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 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)



514 Earth City Expressway  
Suite 242  
Earth City, MO 63045

MAX TOT. LD. 60 PSF  
DUR. FAC. ANY  
MAX SPACING 24.0"

REF 140 GC  
DATE 10/01/14  
DRWG A140GC021014