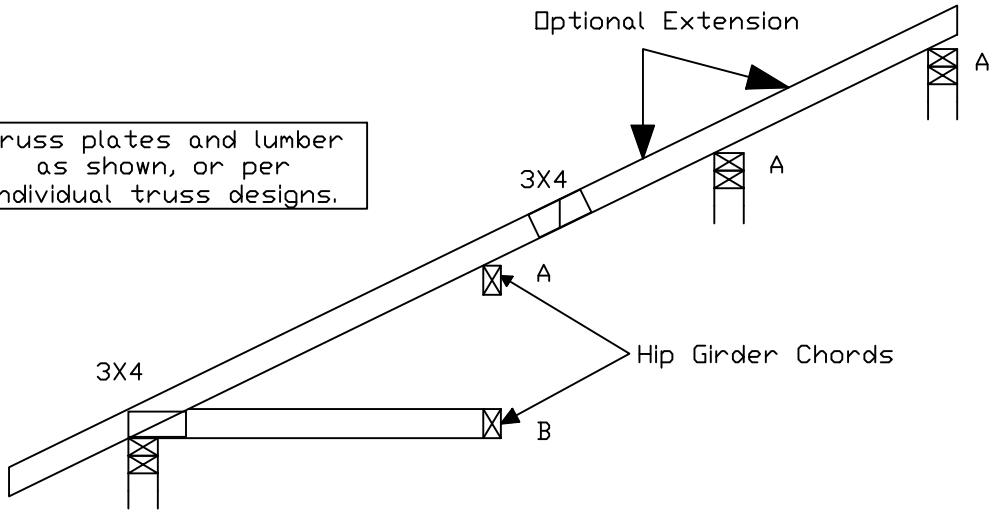
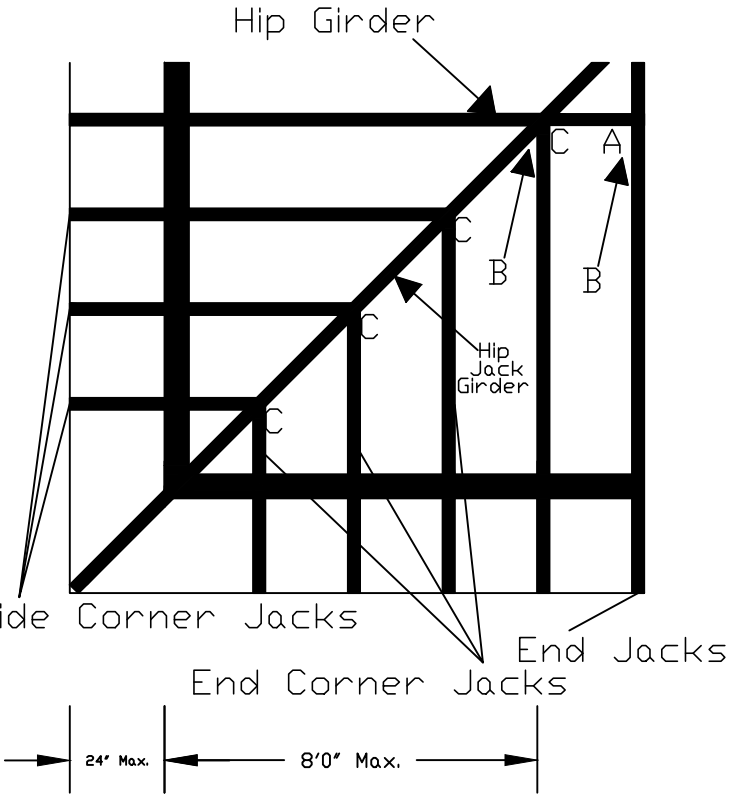
END JACK/CORNER STANDARD DETAIL

Lumber Requirements:
Jack Top Chord: 2x4; #2 or Better DF-L Green, #1/#2 or Better Can S-P-F, #2 or Better Hem-Fir, or 1650f MSR Any Species
Jack Bottom Chord: 2x4; #2 or Better Any Species, or 1650f MSR Any Species

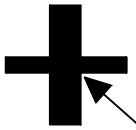
Top Chord length may vary from 6" minimum to 8'-0" maximum. Splice only in Top Chord extension supported at 48" o.c., maximum beyond, hip girder. 10d (0.148"x3") or 16d (0.162"x3.5") nail bottom chord length may vary from 6" minimum to 8'-0" maximum. Do not splice the Bottom Chord.
Top Chord pitch may vary from 4:12 minimum to 8:12 maximum.
Bottom Chord pitch must be flat (0:12).
Special design required for trusses with overhang longer than span length.
This detail applies to 45 degree hipset only.



Truss plates and lumber as shown, or per individual truss designs.



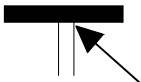
Connection Detail "A" (Top Chord to Hip Girder)



Jack Top Chord Runs over Girder Top Chord

(2) 10d (0.148"x3") or 16d (0.162"x3.5") nails, through Jack T.C. into Girder Top Chord, Toe-nailed, or adequate mechanical hanger per Manuf. Catalog.

Connection Detail "B" (Bot Chord to Hip Girder)



(3) 10d (0.148"x3") or 16d (0.162"x3.5") nails, through Jack B.C. into Girder Bot Chord, Toe-nailed, or adequate mechanical hanger per Manuf. Catalog.

Connection Detail "C" (Top Chord to Hip Jack)

Jack Top Chord must be Single Beveled or Double Beveled

10d (0.148"x3") or 16d (0.162"x3.5") nails, through each Jack T.C. into rafter, Toe-nailed, per schedule below, or adequate mechanical hanger per Manuf. Catalog.

Nailing Requirement

2'-0" & 4'-0" Jack T.C.	(2) Nails
6'-0" Jack T.C.	(3) Nails
Bottom Chord	(2) Nails
8'-0" Jack (One Face of Rafter Only)	(4) Nails

Design for 10 psf non-concurrent bottom chord live load. Wind loaded for 115 mph, (ASCE 7-10 & ASCE 7-16) Exposure "C", Kzt=1.00, Max. No point loads, mechanical units, hvac, sprinklers, or other items causing additional loads on the standard jacks are allowed, without special design.

ALPINE® AN ITW COMPANY
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Glenview, IL 60025

****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.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	20.00	PSF
TC DL	14.00	PSF
BC DL	0.00	PSF
BC LL	10.00	PSF
TOT. LD.	44.00	PSF
DUR. FAC.	1.25	
SPACING	2-0-0	

REF	END JACKS
DATE	01/02/2018
DRWG	EJCORNER0118