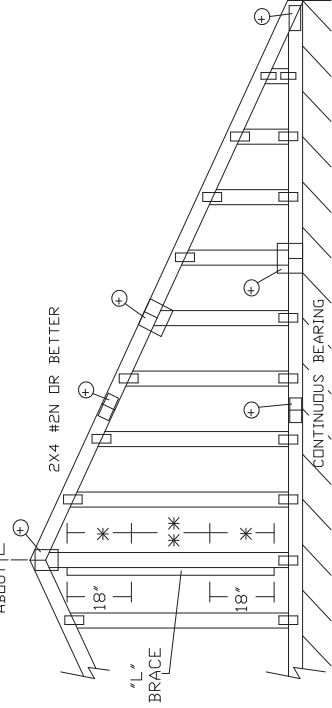
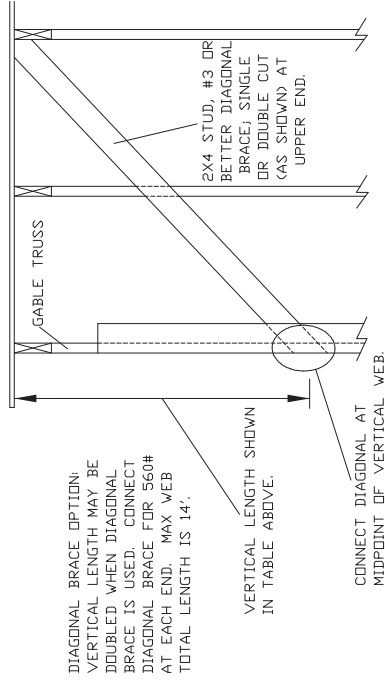


GABLE STUD REINFORCEMENT DETAIL

ASCE 7-05: 100 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

MAX GABLE VERTICAL LENGTH	2X4 GABLE VERTICAL SPACING	BRACE SPECIES AND GRADES:	BRACING GROUP SPECIES AND GRADES:									
			(1) 1X4 'L' BRACE	(2) 2X4 'L' BRACE	(3) 2X4 'L' BRACE	(4) 2X6 'L' BRACE	(5) 2X6 'L' BRACE	(6) 2X6 'L' BRACE	(7) 2X6 'L' BRACE	(8) 2X6 'L' BRACE	(9) 2X6 'L' BRACE	(10) 2X6 'L' BRACE
MAX GABLE VERTICAL LENGTH	12" D.C.	SPF	3' 11"	6' 10"	7' 0"	8' 1"	8' 4"	9' 8"	13' 1"	12' 8"	13' 7"	14' 0"
		HF	3' 10"	6' 1"	6' 1"	8' 1"	8' 4"	9' 8"	12' 7"	12' 7"	12' 7"	14' 0"
		STANDARD	3' 10"	6' 1"	6' 1"	8' 1"	8' 4"	9' 8"	12' 6"	12' 6"	12' 6"	14' 0"
		#1	4' 4"	6' 10"	7' 4"	8' 1"	8' 9"	9' 8"	10' 5"	12' 8"	13' 8"	14' 0"
MAX GABLE VERTICAL LENGTH	24" D.C.	SP	4' 3"	6' 10"	7' 4"	8' 1"	8' 9"	9' 8"	10' 5"	12' 8"	13' 8"	14' 0"
		DFL	4' 1"	6' 3"	6' 3"	8' 1"	8' 3"	9' 8"	10' 2"	12' 8"	13' 8"	14' 0"
		STANDARD	3' 11"	6' 2"	6' 2"	8' 1"	8' 3"	9' 8"	10' 2"	12' 8"	13' 8"	14' 0"
		#1 / #2	4' 6"	7' 10"	8' 0"	9' 3"	9' 6"	11' 1"	11' 4"	14' 0"	14' 0"	14' 0"
MAX GABLE VERTICAL LENGTH	16" D.C.	SPF	4' 5"	7' 5"	7' 6"	9' 3"	9' 6"	11' 1"	11' 4"	14' 0"	14' 0"	14' 0"
		HF	4' 5"	7' 5"	7' 6"	9' 3"	9' 6"	11' 1"	11' 4"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	7' 5"	7' 6"	9' 3"	9' 6"	11' 1"	11' 4"	14' 0"	14' 0"	14' 0"
		#1	5' 0"	7' 10"	8' 5"	9' 3"	10' 0"	11' 1"	11' 4"	14' 0"	14' 0"	14' 0"
MAX GABLE VERTICAL LENGTH	12" D.C.	SP	4' 8"	7' 8"	7' 8"	9' 3"	9' 6"	11' 1"	11' 4"	14' 0"	14' 0"	14' 0"
		DFL	4' 6"	7' 7"	7' 7"	9' 3"	9' 6"	11' 1"	11' 4"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 6"	7' 7"	7' 7"	9' 3"	9' 6"	11' 1"	11' 4"	14' 0"	14' 0"	14' 0"
		#1 / #2	5' 0"	8' 7"	8' 10"	10' 2"	10' 6"	12' 2"	12' 6"	14' 0"	14' 0"	14' 0"
MAX GABLE VERTICAL LENGTH	12" D.C.	SPF	4' 10"	8' 7"	8' 7"	10' 2"	10' 2"	12' 2"	12' 2"	14' 0"	14' 0"	14' 0"
		HF	4' 10"	8' 7"	8' 7"	10' 2"	10' 2"	12' 2"	12' 2"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 10"	8' 7"	8' 7"	10' 2"	10' 2"	12' 2"	12' 2"	14' 0"	14' 0"	14' 0"
		#1	5' 6"	8' 7"	9' 3"	10' 2"	11' 0"	12' 2"	13' 1"	14' 0"	14' 0"	14' 0"
MAX GABLE VERTICAL LENGTH	12" D.C.	SP	5' 4"	8' 7"	8' 10"	10' 2"	10' 9"	12' 2"	12' 10"	14' 0"	14' 0"	14' 0"
		DFL	5' 1"	8' 7"	8' 9"	10' 2"	10' 9"	12' 2"	12' 10"	14' 0"	14' 0"	14' 0"
		STANDARD	5' 1"	8' 7"	8' 9"	10' 2"	10' 9"	12' 2"	12' 10"	14' 0"	14' 0"	14' 0"
		#1	5' 0"	7' 7"	7' 7"	10' 0"	10' 0"	12' 2"	12' 6"	14' 0"	14' 0"	14' 0"



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING. 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 light 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-2 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 or truss erection.
The engineer's responsibility is to provide 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.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

REF ASCE7-05-GAB10030
DATE 10/01/14
DRWG A10030051014

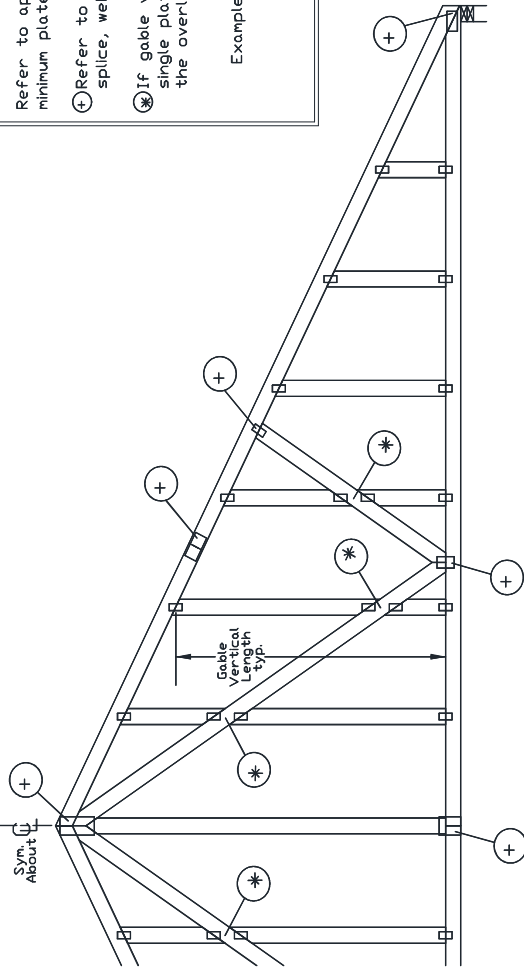
MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"



03/20/2018

Gable Detail For Let-in Verticals



Gable Truss Plate Sizes

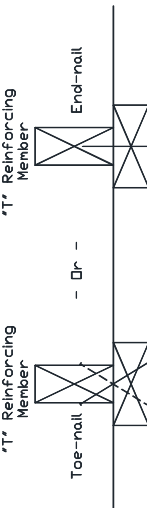
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



'T' Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x 3", min) Nails at 4" o.c. plus

(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3", min) Toenails at 4" o.c. plus

(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A1015051014, A1015051014, A14015051014, A13030051014, A12030051014, A10030051014, A14030051014

ASCE 7-10 Gable Detail Drawings

A11515ENC10014, A12015ENC10014, A14015ENC10014, A16015ENC10014, A18015ENC10014, A20015ENC10014, A22015ENC10014, A24015ENC10014, A26015ENC10014, A28015ENC10014, A30015ENC10014, A32015ENC10014, A34015ENC10014, A36015ENC10014, A38015ENC10014, A40015ENC10014, A42015ENC10014, A44015ENC10014, A46015ENC10014, A48015ENC10014, A50015ENC10014, A52015ENC10014, A54015ENC10014, A56015ENC10014, A58015ENC10014, A60015ENC10014, A62015ENC10014, A64015ENC10014, A66015ENC10014, A68015ENC10014, A70015ENC10014, A72015ENC10014, A74015ENC10014, A76015ENC10014, A78015ENC10014, A80015ENC10014, A82015ENC10014, A84015ENC10014, A86015ENC10014, A88015ENC10014, A90015ENC10014, A92015ENC10014, A94015ENC10014, A96015ENC10014, A98015ENC10014, A100015ENC10014

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
'T' Reinforcing Member Size = 2x4
'T' Brace Increase (From Above) = 30% = 1.30
(1) 2x4 'L' Brace Length = 8' 7"
Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

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 IPI and SBCA) for safety instructions. The truss manufacturer shall be responsible for providing the truss with the appropriate bracing. Unless noted otherwise, top chord shall have properly attached structural sheathing on bottom chord shall have bracing installed 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. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.
Alpine, a division of ITW Building Components Group, Inc. shall not be responsible for any deviation from the above instructions. The truss is to be installed 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.alpinetw.com IPI: www.ipinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

REF LET-IN VERT
DATE 10/01/14
DRWG GBLLETIN1014

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



03/20/2018

COMMON RESIDENTIAL GABLE END WIND BRACING REQUIREMENTS - STIFFENERS

ASCE 7-05: EXPOSURE C

100 MPH, 30FT. MEAN HGT, ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP C, Kzt = 1.00, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

LATERAL CHORD BRACING REQUIREMENTS
TOP: CONTINUOUS ROOF SHEATHING
BOT: CONTINUOUS CEILING DIAPHRAGM

SEE ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN ON THIS DETAIL.

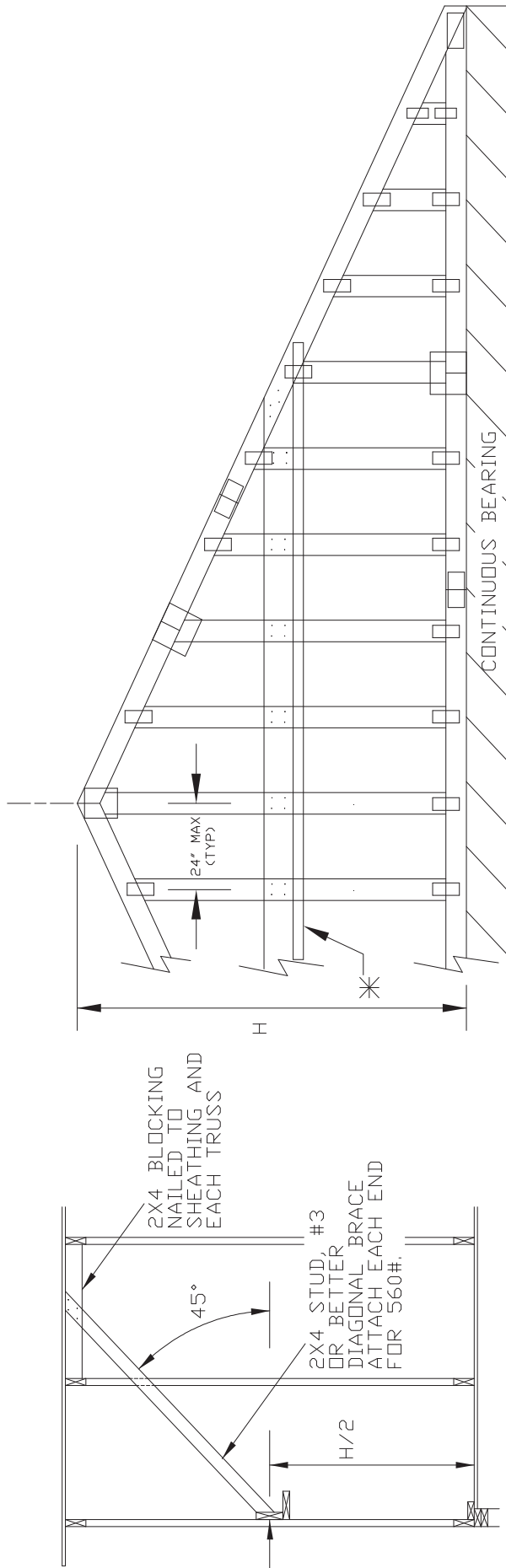
NAILS: 10d COMMON (0.148"x3") OR BOX (0.128"x3",MIN) NAILS
OR GUN (0.125"x 3",min) NAILS.

H LESS THAN 4'6" - NO STUD BRACING REQUIRED

H GREATER THAN 4'6" TO 7'6" IN LENGTH
PROVIDE A 2X6 STIFFBACK AT MID-HEIGHT AND BRACE TO ROOF DIAPHRAGM EVERY 6'0" (SEE DETAIL BELOW OR REFER TO DRAWING A1003005).

H GREATER THAN 7'6" TO 12'0" MAX:
PROVIDE A 2X6 STIFFBACK AT MID-HEIGHT AND BRACE TO ROOF DIAPHRAGM EVERY 4'0" (SEE DETAIL BELOW OR REFER TO DRWG A1003005).

* OPTIONAL 2X L-REINFORCEMENT ATTACHED TO STIFFBACK WITH 10d BOX OR GUN (0.128" X 3", MIN.) NAILS @ 6" O.C.



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Suite 200
Maryland Heights, MO 63043

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Refer to drawings 160A-2 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 or bracing of trusses.

Professional Engineer's Seal: **BRUCE ALAN FELDMANN**, E-26209, ST. LOUIS, MO. The seal 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.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	PSF	REF	GE	WHALE
TC DL	PSF	DATE	10/01/14	
BC DL	PSF	DRWG	GABRST051014	
BC LL	PSF			
TOT. LD.	PSF			
DUR. FAC.				
MAX SPACING	24"			



03/20/2018

CLR Reinforcing

Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

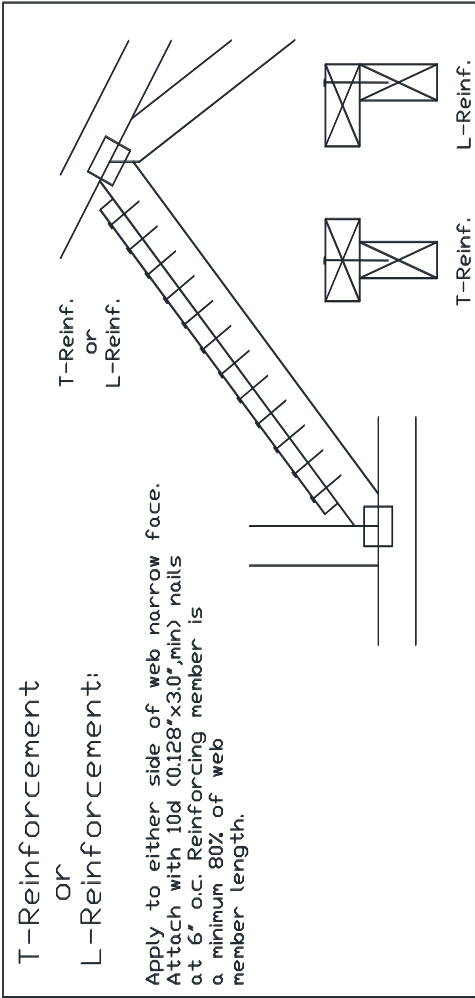
Alternative reinforcement specified in chart below may be conservative.

For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(Ø)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(Ø)

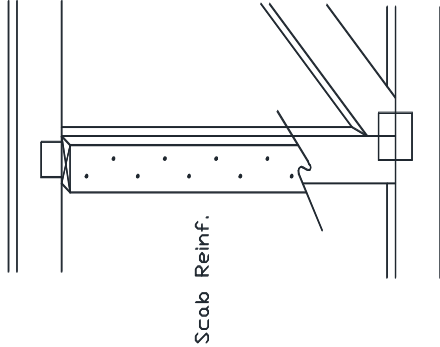
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

Ø Center scab on wide face of web. Apply (1) scab to each face of web.



Scab Reinforcement:

Apply scab(s) to wide face of web.
No more than (1) scab per face.
Attach with 10d (0.128"x3.0",min) nails
at 6" o.c. Reinforcing member is a
minimum 80% of web member length.



IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING
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 instructions. Trusses are designed to be installed in accordance with the instructions provided. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord 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-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from the instructions provided for the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or 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 Sec2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineinc.com TPI: www.tpi.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

03/20/2018
SEAL
FELDMANN
E-26209
ST. LOUIS, MO
PROFESSIONAL ENGINEER

TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	BRCLBSUB1014
BC LL	PSF		
TOT. L.D.	PSF		
DUR. FAC.			
SPACING			

GABLE STUD REINFORCEMENT DETAIL

ASCE 7-05: 100 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

MAX GABLE VERTICAL LENGTH	2X4 GABLE SPACING	BRACE SPECIES	BRACE GRADE	BRACE		NO BRACES		(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
12" D.C.	SPF	#1 / #2	STANDARD	4' 2"	7' 3"	6' 9"	8' 7"	8' 7"	8' 9"	10' 2"	10' 2"	10' 6"	13' 5"	13' 5"	13' 10"	14' 0"	14' 0"
				4' 1"	6' 9"	6' 9"	8' 7"	8' 7"	8' 9"	10' 2"	10' 2"	10' 6"	13' 5"	13' 5"	13' 10"	14' 0"	14' 0"
				4' 1"	6' 9"	6' 9"	8' 7"	8' 7"	8' 9"	10' 2"	10' 2"	10' 6"	13' 5"	13' 5"	13' 10"	14' 0"	14' 0"
				4' 1"	6' 9"	6' 9"	8' 7"	8' 7"	8' 9"	10' 2"	10' 2"	10' 6"	13' 5"	13' 5"	13' 10"	14' 0"	14' 0"
16" D.C.	SPF	#1 / #2	STANDARD	4' 3"	7' 3"	6' 11"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
12" D.C.	SPF	#1 / #2	STANDARD	4' 3"	7' 3"	6' 11"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
12" D.C.	SPF	#1 / #2	STANDARD	4' 3"	7' 3"	6' 11"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"
				4' 2"	7' 3"	6' 10"	8' 7"	8' 7"	9' 0"	10' 2"	10' 2"	10' 9"	13' 5"	13' 5"	14' 0"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:	
GROUP A:	SPRUCE-PINE-FIR
	#1 / #2 STANDARD
	#3 STUD
	HEM-FIR
	#2 STANDARD
	#3 STANDARD
GROUP B:	DOUGLAS FIR-LARCH
	#3 STUD
	STANDARD
	SOUTHERN PINE
	#3 STUD
	STANDARD
GROUP C:	DOUGLAS FIR-LARCH
	#1 & BTR
	#1
	#2
GROUP D:	SOUTHERN PINE
	#1
	#2
	DOUGLAS FIR-LARCH
	#1
	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 60 PLF OVER CONTINUOUS BEARING (5 PSF 1C DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0"

OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C.

* IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.

* FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C.

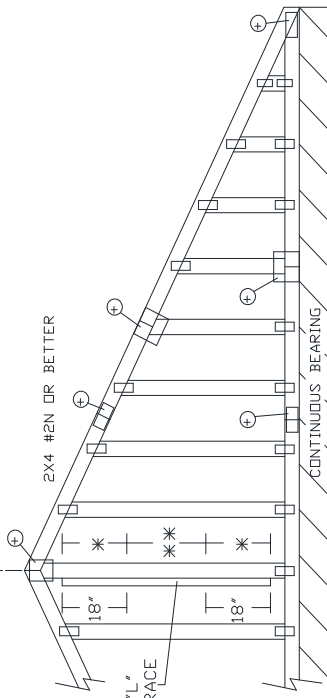
* IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

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 details on proper bracing, handling, shipping, installing and bracing. Backs of trusses shall be braced and bracing shall be attached to the truss in accordance with the BCSI requirements. Trusses 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. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from the above information. The truss is in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of truss.

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.alpineinc.com TPI: www.tpinet.org SBCA: www.sbcaindustry.org ICC: www.iccsafe.org

REF	ASCE7-05-GAB10015
DATE	10/01/14
DRWG	A10015051014

MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

03/20/2018

BRUCE ALAN FELDMAN E-26209 ST. LOUIS, MO

PROFESSIONAL ENGINEER

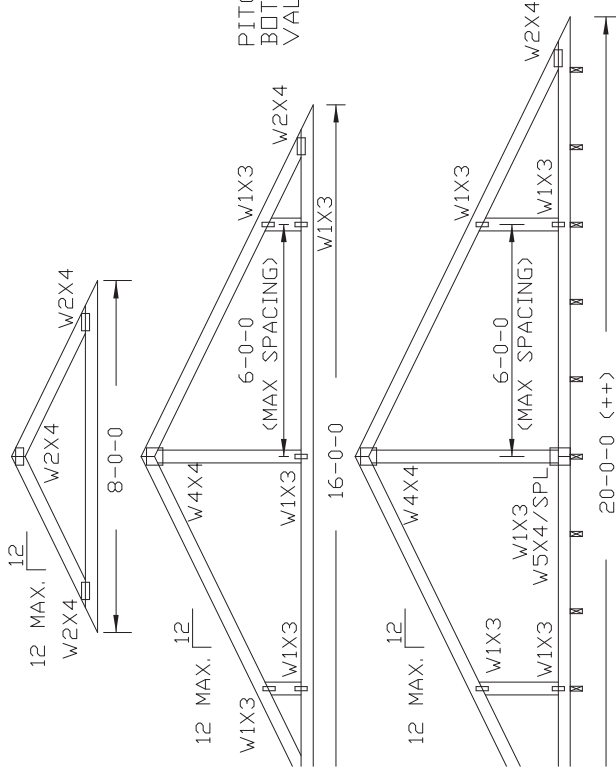
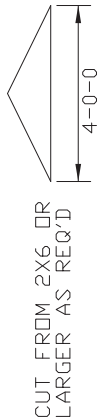
ALPINE AN ITW COMPANY

13723 Riverport Drive Suite 200 Maryland Heights, MO 63043

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



SUPPORTING TRUSSES AT 24" O.C. MAXIMUM SPACING.

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 @ 24" OC 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.

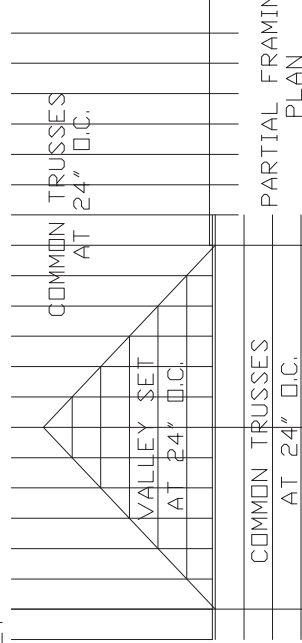
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

++ 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.



VALLEY DETAIL
SQUARE CUT BOTTOM CHORD
STUBBED VALLEY END DETAIL
OPTIONAL HIP JOINT DETAIL



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
Trusses require extensive engineering, manufacturing, and fielding. Refer to and follow the latest edition of BCSI Building Components Institute (BCSI) 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 bracing installed per BCSI sections B3, B4 or B10, as applicable. Apply plates to each face of the truss web. 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 and 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.alphnetw.com, TPI: www.tpinet.org, SBCA: www.sbcindustry.org, ICC: www.iccsafe.org



TC	LL	30	40	PSF	REF	VALLEY DETAIL
TC	DL	20	15	7	PSF	DATE 10/01/14
BC	DL	10	10	10	PSF	DRWG VAL1301014
BC	LL	0	0	0	PSF	
TOT.	LD.	60	55	57	PSF	
DURFA	1.25/1.33	1.15	1.15			
SPACING		24"				

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03/20/2018