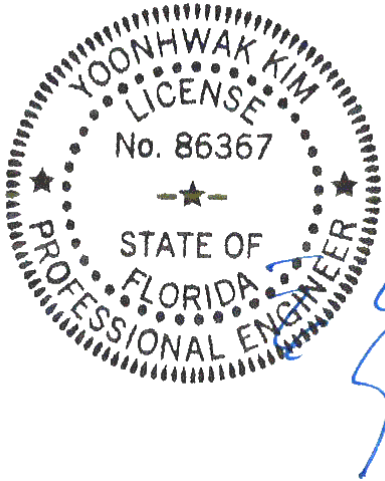




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Glenview, IL 60025
Phone: (800)755-6001
www.alpineitw.com

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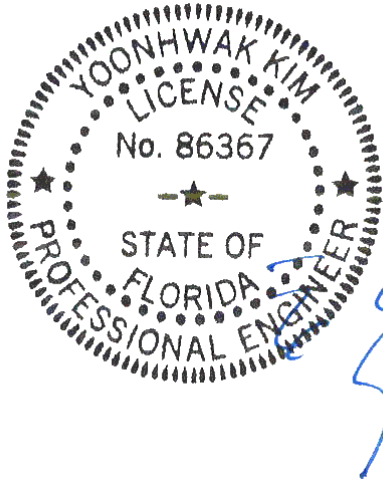
Site Information:	Page 1:
Customer: Carpenter Contractors of America	Job Number: 402471
Job Description: ,7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A	
Address:	

Job Engineering Criteria:	
Design Code: FBC 8th Ed. 2023 Res.	IntelliVIEW Version: 23.02.01A JRef #: 1YdO89750003
Wind Standard: ASCE 7-22 Wind Speed (mph): 160	Design Loading (psf): 45.00
Building Type: Closed	

This package contains general notes pages, 50 truss drawing(s) and 36 detail(s).

Item	Drawing Number	Truss
1	267.25.0813.23168	A1
3	267.25.0813.23716	A1B
5	267.25.0813.22888	A2T
7	267.25.0813.22619	A4T
9	267.25.0813.24008	A6T
11	267.25.0920.32770	A8GT
13	267.25.0813.23873	A10
15	267.25.0813.23372	A12
17	267.25.0919.40050	A14G
19	267.25.0920.06300	A16G
21	267.25.0813.23074	C1
23	267.25.0921.30007	C3G
25	267.25.0813.23481	M2G
27	267.25.0813.21993	EJ7
29	267.25.0813.23983	EJ4
31	267.25.0813.22415	EJ3A
33	267.25.0813.23027	CJ5A
35	267.25.0813.22024	CJ3
37	267.25.0813.22086	CJ3B
39	267.25.0813.22400	CJ1A
41	267.25.0813.22401	CJ1F
43	267.25.0813.23184	CJ1C
45	267.25.0813.22604	HJ7
47	267.25.0813.22823	HJ3A
49	267.25.0813.22057	HJ3C

Item	Drawing Number	Truss
2	267.25.0813.23686	A1A
4	267.25.0813.22776	A1T
6	267.25.0813.23278	A3T
8	267.25.0813.23371	A5T
10	267.25.0813.23403	A7T
12	267.25.0813.23794	A9G
14	267.25.0813.23512	A11
16	267.25.0813.23732	A13
18	267.25.0813.23810	A15
20	267.25.0920.53987	B1G
22	267.25.0921.06127	C2G
24	267.25.0922.25063	M1G
26	267.25.0922.10650	FG1
28	267.25.0813.24092	EJ7T
30	267.25.0813.22886	EJ3
32	267.25.0813.22055	CJ5
34	267.25.0813.22416	CJ5B
36	267.25.0813.22698	CJ3A
38	267.25.0813.22056	CJ1
40	267.25.0813.22352	CJ1E
42	267.25.0813.22997	CJ1H
44	267.25.0813.23089	CJ1D
46	267.25.0813.23575	HJ4
48	267.25.0813.22322	HJ3B
50	267.25.0813.22745	HJ3



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Site Information:	Page 2:
Customer: Carpenter Contractors of America	Job Number: 402471
Job Description: ,7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A	
Address:	

Item	Drawing Number	Truss
51	160TL	
53	A14015ENC160118	
55	A14030ENC160118	
57	A16015ENC160118	
59	A16030ENC160118	
61	A18015ENC160118	
63	BRCLBSUB1014	
65	CNSY42PL0118	
67	GBLLETIN0118	
69	LSCSYX2A1014	
71	PBSCAB101014	
73	PBSCAB220723	
75	S16015ENC100815	
77	S16030ENC100815	
79	STRBRIBR1014	
81	VAL180160118	
83	VALTN160118	
85	REPPLTNL1014	

Item	Drawing Number	Truss
52	A14015ENC101014	
54	A14030ENC101014	
56	A16015ENC101014	
58	A16030ENC101014	
60	A18015ENC101014	
62	BRCLBSUB0119	
64	CNNAILSP1014	
66	DEFLCAMB1014	
68	GBLLETIN1014	
70	PB180220723	
72	PBSCAB160118	
74	RIGINSRT1014	
76	S16015ENC160118	
78	S16030ENC160118	
80	VAL160101014	
82	VAL180220723	
84	VALTN220723	
86	S20030END100815	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high-quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed, and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Bearing Information:

The bearing area factor, C_b , is considered for the allowable capacity of solid sawn wood bearings supporting trusses that are located a minimum of 3" from the end of the lumber piece.

General Notes (continued)

Coated Lumber:

Coated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Coated lumber has no adjustments to lumber properties. Coated lumber may be more brittle than uncoated lumber. Special handling care must be taken to prevent breakage during all handling activities. Refer to manufacturer literature, specifications, and code evaluation reports for restrictions, details, and requirements.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

C = Coated lumber.

C-AT = AtTEK coated lumber.

C-FX = FX Lumber Guard coated lumber.

C -TE = TechWood 4400 coated lumber.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-BF = Boraflame Fire Retardant Treated lumber

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-ON = OnWood Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

FRT-PR = ProWood Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

General Notes (continued)

Key to Terms (continued):

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

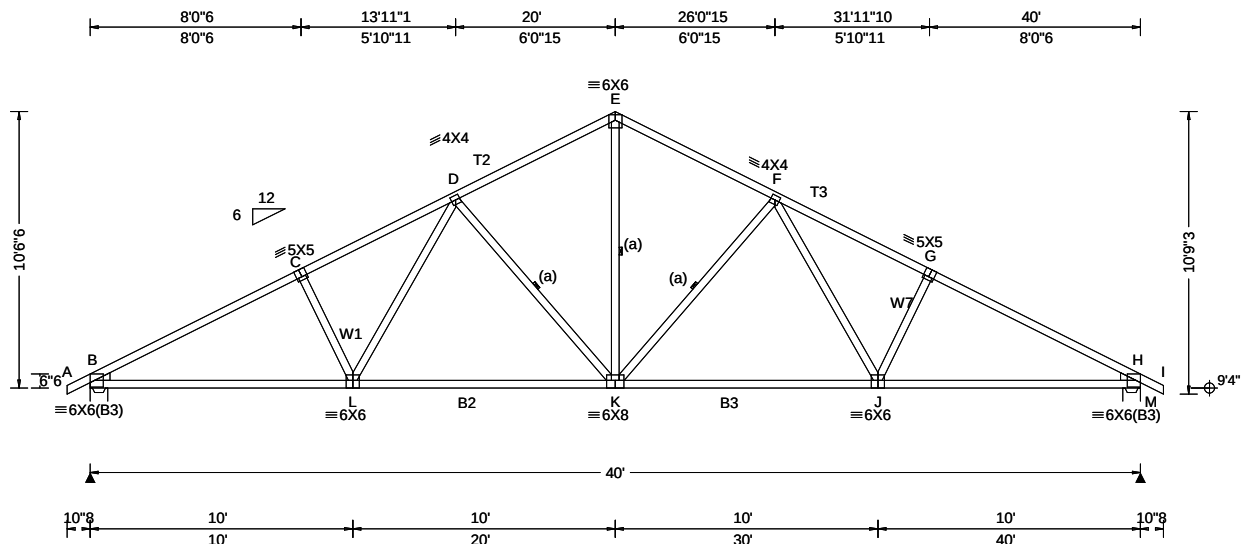
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com

SEQN: 837680/ FROM: MTV	COMN Ply: 1 Qty: 6	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A1	Cust: R 8975 JRef: 1YdO89750003 T2 / DrwNo: 267.25.0813.23168 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.233 K 999 240 VERT(CL): 0.485 K 985 240 HORZ(LL): 0.091 H - - HORZ(TL): 0.189 H - - Creep Factor: 2.0 Max TC CSI: 0.888 Max BC CSI: 0.906 Max Web CSI: 0.521 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 2109 - / - / - /1333 /311 /445 M 2109 - / - / - /1333 /311 - Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 2.5 (Truss) M Brg Wid = 8.0 Min Req = 2.5 (Truss) Bearings B & H are a rigid surface. Bearings B & H require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1402 -3699 E - F 1144 -2474 C - D 1435 -3450 F - G 1434 -3450 D - E 1144 -2474 G - H 1401 -3699

Lumber

Top chord: 2x4 SP #1; T2,T3 2x4 SP #2 N;
Bot chord: 2x4 SP #1; B2,B3 2x4 SP 2400f-2.0E;
Webs: 2x4 SP #2 N; W1,W7 2x4 SP #3;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Bracing

(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

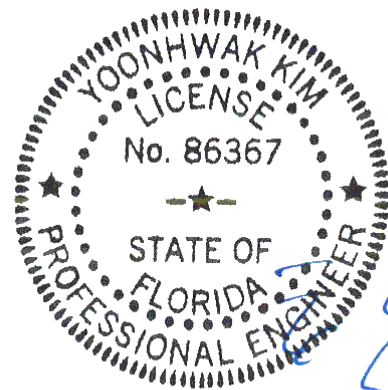
Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

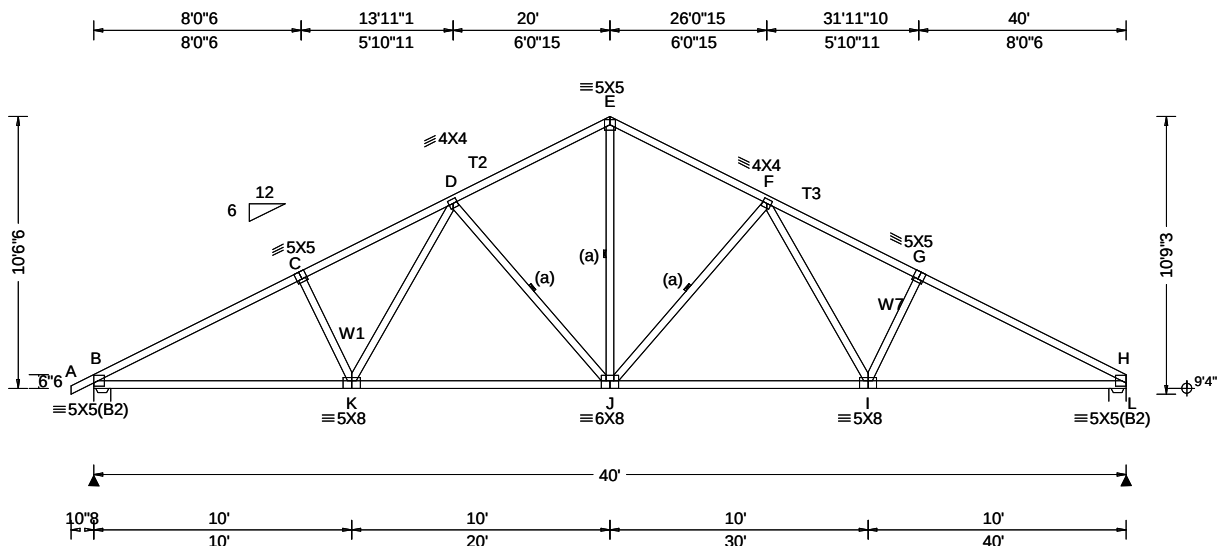


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****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow 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 continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR 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. Refer to job's General Notes page for additional information.
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 and 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 these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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Glenview, IL 60025

SEQN: 837536 / FROM: MTV	COMN Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A1A	Cust: R 8975 JRef:1YdO89750003 T6 / DrwNo: 267.25.0813.23686 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.183 J 999 240 VERT(CL): 0.427 J 999 240 HORZ(LL): 0.073 H - - HORZ(TL): 0.170 H - - Creep Factor: 2.0 Max TC CSI: 0.831 Max BC CSI: 0.808 Max Web CSI: 0.521 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1936 /- /- /1333 /311 /432 L 1870 /- /- /1258 /298 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 2.3 (Truss) L Brg Wid = 8.0 Min Req = 2.2 (Truss) Bearings B & H are a rigid surface. Bearings B & H require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #1; T2,T3 2x4 SP #2 N;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #2 N; W1,W7 2x4 SP #3;

Bracing

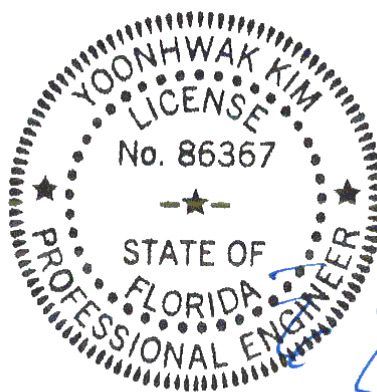
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	2841 - 1145	J - I	2360 - 848
K - J	2359 - 876	I - H	2847 - 1130

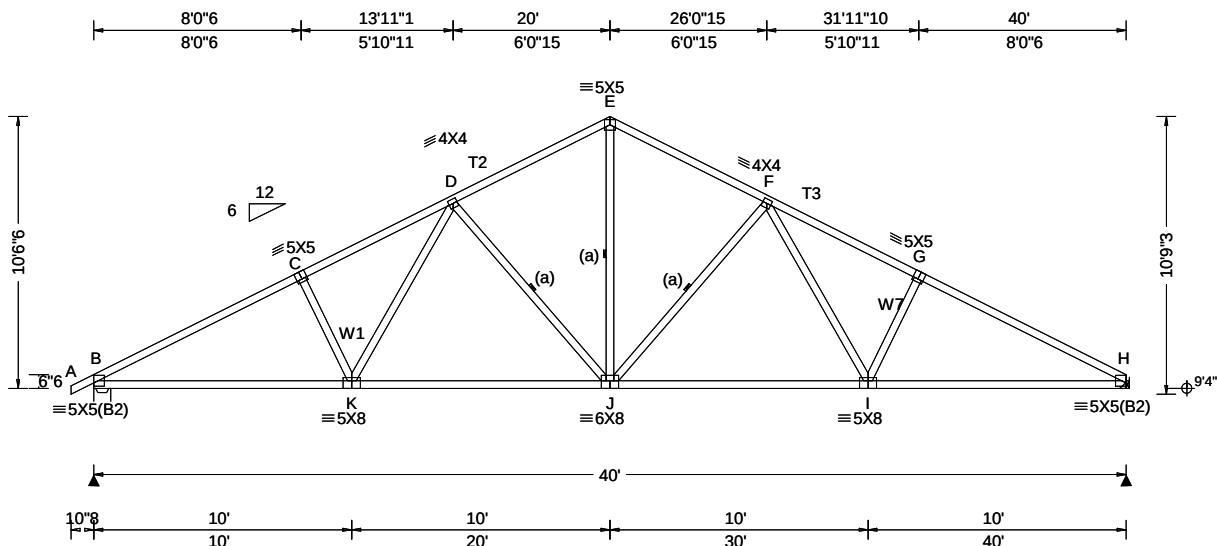
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	382 - 426	J - F	507 - 779
K - D	634 - 263	F - I	639 - 278
D - J	505 - 777	I - G	393 - 430
E - J	1398 - 643		

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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Glenview, IL 60025

SEQN: 837539 / FROM: MTV	COMN Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A1B	Cust: R 8975 JRef:1YdO89750003 T44 / DrwNo: 267.25.0813.23716 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.183 J 999 240 VERT(CL): 0.427 J 999 240 HORZ(LL): 0.073 H - - HORZ(TL): 0.170 H - - Creep Factor: 2.0 Max TC CSI: 0.831 Max BC CSI: 0.808 Max Web CSI: 0.521 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1936 /- /- /1333 /311 /432 H 1870 /- /- /1258 /298 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 2.3 (Truss) H Brg Wid = - Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #1; T2,T3 2x4 SP #2 N;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #2 N; W1,W7 2x4 SP #3;

Bracing

(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

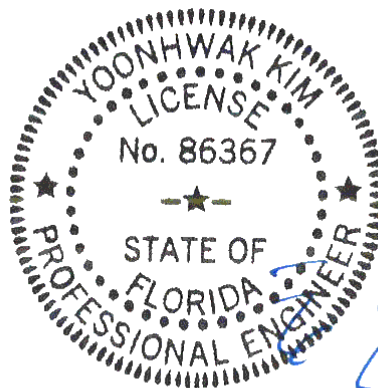
Hangers / Ties

(J) Hanger Support Required, by others

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	2841 - 1145	J - I	2360 - 848
K - J	2359 - 876	I - H	2847 - 1130

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	382 - 426	J - F	507 - 779
K - D	634 - 263	F - I	639 - 278
D - J	505 - 777	I - G	393 - 430
E - J	1398 - 643		

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[illegible]

Lumber	B - C	1200 - 2782	F - G	1152 - 2297
Top chord: 2x4 SP #1; T1 2x4 SP 2400f-2.0E;	C - D	1867 - 4737	G - H	1362 - 3123
T3 2x4 SP #2 N;	D - E	1502 - 3515	H - I	1400 - 3509
Bot chord: 2x6 SP SS; B1 2x4 SP #1;	E - F	1692 - 3516		
B2 2x8 SP 2400f-2.0E;				
Webs: 2x4 SP #3; W3,W9,W10,W11 2x4 SP #2 N;				
Lt Wedge: 2x4 SP #3;				
	Maximum Bot Chord Forces Per Ply (lbs)			
	Chords	Tens.Comp.	Chords	Tens. Comp.

(1) 1x4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails (0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR's where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

All plates are 2X4 except as noted.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

A circular professional engineer seal for Yoonhwak Kim, License No. 86367, State of Florida. The seal features the text "Yoonhwak Kim" at the top, "LICENSE" in the center, "No. 86367" below the license, and "STATE OF FLORIDA" and "PROFESSIONAL ENGINEER" at the bottom. There are three stars: one on the left, one in the center below the license number, and one on the right. A blue ink signature is written across the bottom right of the seal.

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09/24/2025

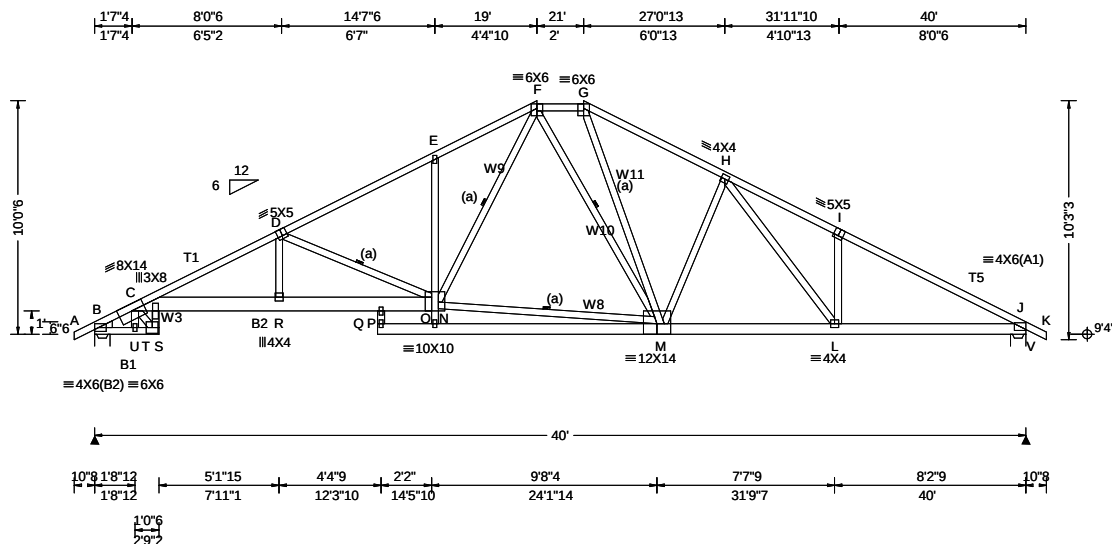
Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
B - U	2330	-1007	P - N	4118	-1531
C - T	4097	-1520	M - L	2523	-806
U - S	2211	-948	L - K	3022	-1085
T - R	4165	-1542	K - I	3023	-1084
R - P	4148	-1538			

Maximum Web Forces Per Ply (lbs)					
Webbs	Tens.Comp.		Webbs	Tens. Comp.	
C - U	281	-567	N - F	1796	-863
C - S	1347	-3141	N - M	1932	-504
T - S	2228	-952	F - M	606	-235
R - D	651	-158	M - G	493	-860
D - N	575	-1240	G - L	631	-196
E - N	396	-439	L - H	347	-480

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SEQN: 103911/ FROM: ARZ	MONO Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A2T	Cust: R 8975 JRef: 1YdO89750003 T4 / DrwNo: 267.25.0813.22888 / WHK 09/24/2025
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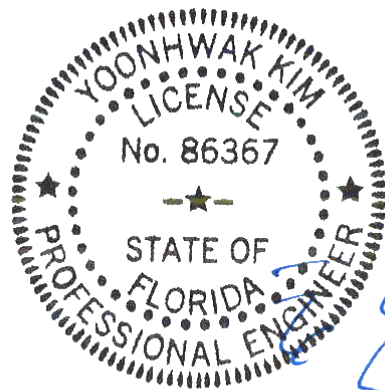
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.258 E 999 240 VERT(CL): 0.598 E 797 240 HORZ(LL): 0.134 J - - HORZ(TL): 0.310 J - - Creep Factor: 2.0 Max TC CSI: 0.758 Max BC CSI: 0.684 Max Web CSI: 0.716 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1931 - / - / - /1333 /311 /424 V 1934 - / - / - /1336 /312 - / Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 2.3 (Truss) V Brg Wid = 8.0 Min Req = 2.7 (Truss) Bearings B & J are a rigid surface. Bearings B & J require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2 N; T1 2x4 SP 2400f-2.0E;
T5 2x4 SP #1;
Bot chord: 2x6 SP #2 N; B1 2x4 SP #1;
B2 2x8 SP 2400f-2.0E;
Webs: 2x4 SP #3; W3,W8,W9,W10,W11 2x4 SP #2 N;
Lt Wedge: 2x4 SP #3;

Bracing
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.
(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

Plating Notes
All plates are 2X4 except as noted.

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

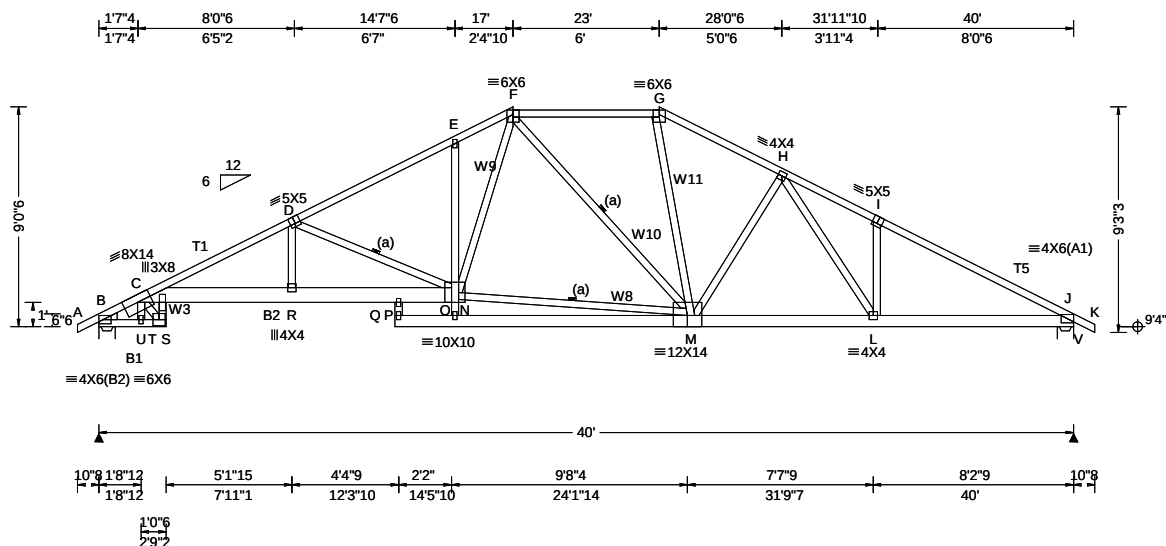


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Glenview, IL 60025

SEQN: 103912/ FROM: ARZ	MONO Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A3T	Cust: R 8975 JRef:1YdO89750003 T3 / DrwNo: 267.25.0813.23278 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.251 E 999 240 VERT(CL): 0.583 E 818 240 HORZ(LL): 0.135 J - - HORZ(TL): 0.314 J - - Creep Factor: 2.0 Max TC CSI: 0.759 Max BC CSI: 0.682 Max Web CSI: 0.778 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1931 - / - / - /1330 /319 /382 V 1934 - / - / - /1334 /320 - / Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 2.3 (Truss) V Brg Wid = 8.0 Min Req = 2.7 (Truss) Bearings B & J are a rigid surface. Bearings B & J require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2 N; T1 2x4 SP 2400f-2.0E;
T5 2x4 SP #1;
Bot chord: 2x6 SP #2 N; B1 2x4 SP #1;
B2 2x8 SP 2400f-2.0E;
Webs: 2x4 SP #3; W3,W8,W9,W10,W11 2x4 SP #2 N;
Lt Wedge: 2x4 SP #3;

Bracing

(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

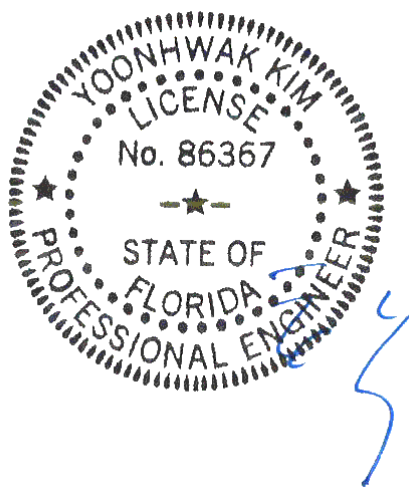
Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

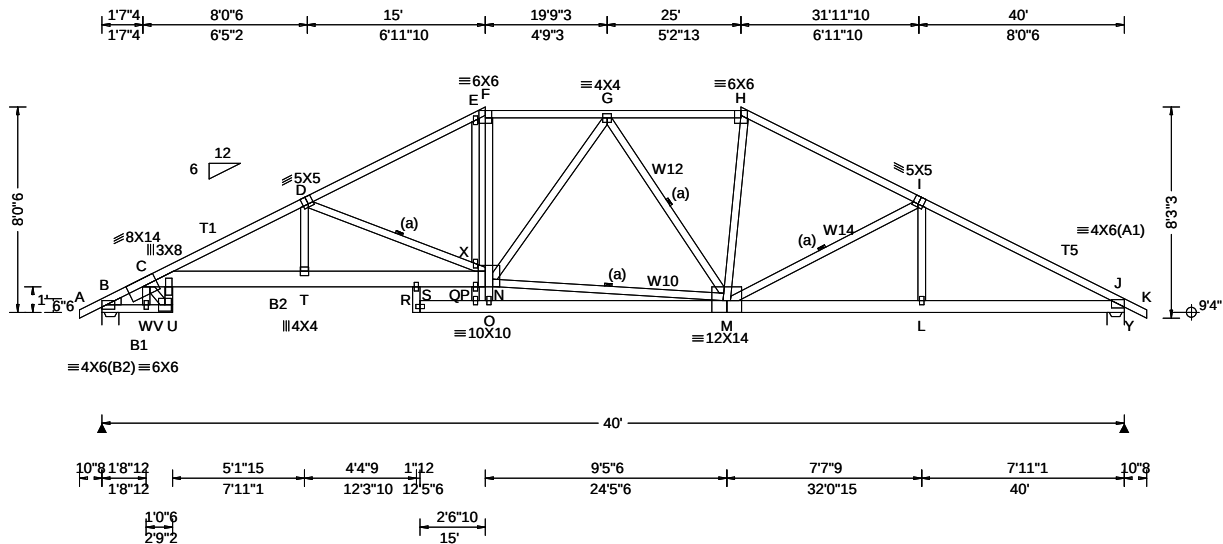


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SEQN: 103913/ FROM: ARZ	HIPS Qty: 1	Ply: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A4T	Cust: R 8975 JRef: 1YdO89750003 T50 / DrwNo: 267.25.0813.22619 / WHK 09/24/2025
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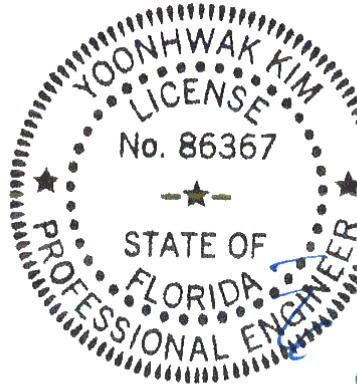
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.247 N 999 240 VERT(CL): 0.573 N 833 240 HORZ(LL): 0.137 J - - HORZ(TL): 0.318 J - - Creep Factor: 2.0 Max TC CSI: 0.728 Max BC CSI: 0.715 Max Web CSI: 0.915 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1931 - / - / - /1319 /331 /341 Y 1934 - / - / - /1324 /428 - / - Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 2.3 (Truss) Y Brg Wid = 8.0 Min Req = 2.7 (Truss) Bearings B & J are a rigid surface. Bearings B & J require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2 N; T1 2x4 SP 2400f-2.0E;
T5 2x4 SP #1;
Bot chord: 2x6 SP #2 N; B1 2x4 SP #1;
B2 2x8 SP 2400f-2.0E;
Webs: 2x4 SP #3; W10,W12,W14 2x4 SP #2 N;
Lt Wedge: 2x4 SP #3;

Bracing
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.
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Plating Notes
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Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

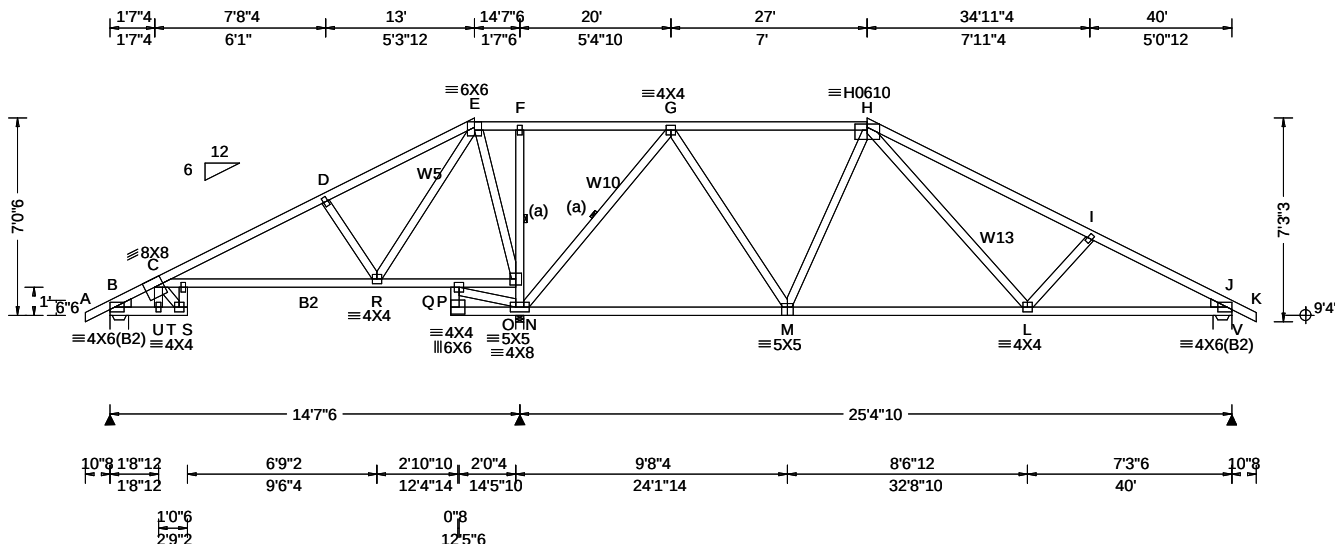


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Glenview, IL 60025

SEQN: 230762/ FROM: ARZ	HIPS Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A5T	Cust: R 8975 JRef:1YdO89750003 T5 / DrwNo: 267.25.0813.23371 AK / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): -0.461 S 378 240 VERT(CL): 0.384 S 454 240 HORZ(LL): -0.246 J - - HORZ(TL): 0.286 J - - Creep Factor: 2.0 Max TC CSI: 0.881 Max BC CSI: 0.857 Max Web CSI: 0.833 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL B 355 /- /- /203 /720 /300 O 2573 /- /- /1745 /- /- V 1074 /- /- /867 /720 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 3.2 (Truss) V Brg Wid = 8.0 Min Req = 1.5 (Truss) Bearings B, O, & J are a rigid surface. Bearings B & J require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N; B2 2x4 SP #1;
Webs: 2x4 SP #3; W5,W10,W13 2x4 SP #2 N;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Bracing

(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

Plating Notes

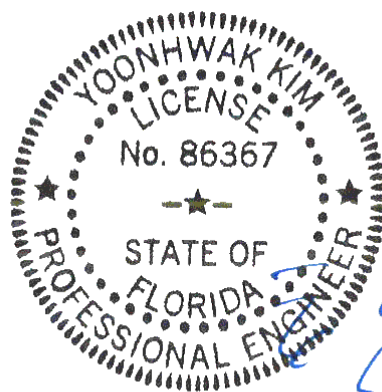
All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

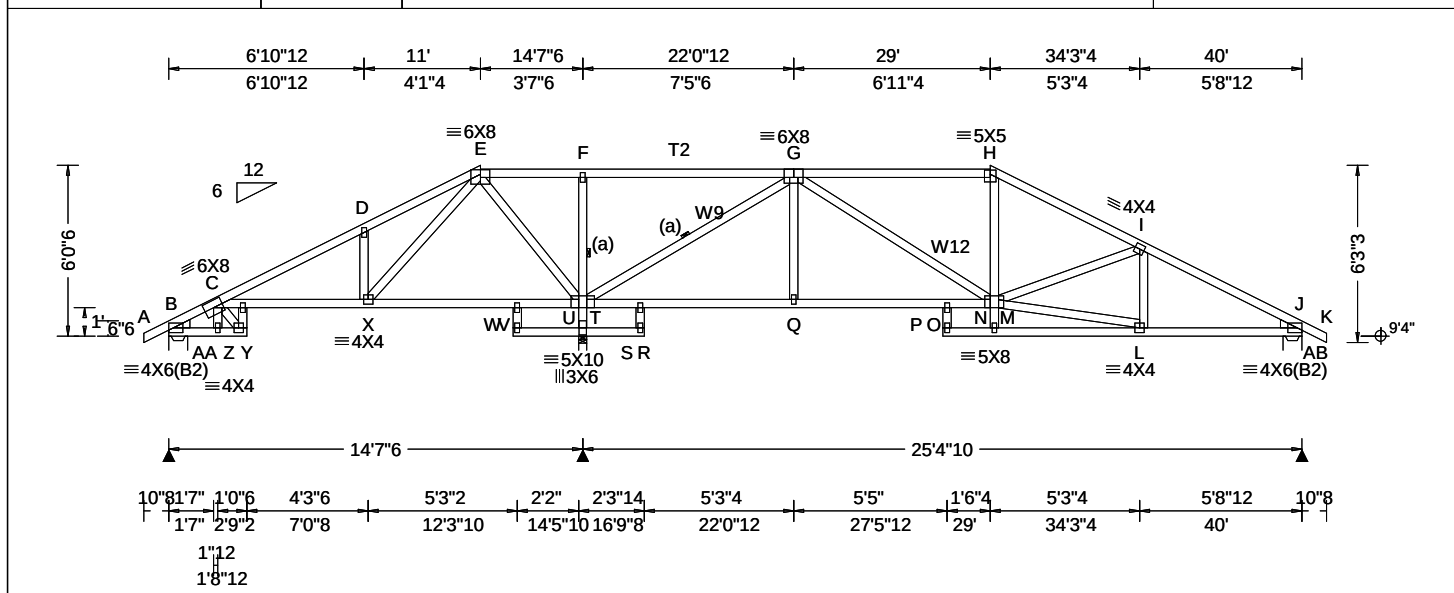


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 837523 / FROM: ARZ	HIPS Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A6T	Cust: R 8975 JRef: 1YdO89750003 T8 / DrwNo: 267.25.0813.24008 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.00 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.066 P 999 240 VERT(CL): 0.204 Y 853 240 HORZ(LL): 0.032 J - - HORZ(TL): 0.075 J - - Creep Factor: 2.0 Max TC CSI: 0.703 Max BC CSI: 0.605 Max Web CSI: 0.813 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 334 /- /- /199 /109 /259 U 2634 /- /- /1723 /964 /- AB 1055 /- /- /833 /370 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.5 (Truss) U Brg Wid = 3.5 Min Req = 3.3 (Truss) AB Brg Wid = 8.0 Min Req = 1.5 (Truss) Bearings B, U, & J are a rigid surface. Bearings B & J require a seat plate. Members not listed have forces less than 375#

Lumber	Maximum Top Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2 N; T2 2x4 SP #1; Bot chord: 2x4 SP #2 N; Webs: 2x4 SP #3; W9,W12 2x4 SP #2 N; Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;	Chords Tens.Comp. Chords Tens. Comp. C - D 469 -141 G - H 810 -1193 D - E 412 -18 H - I 819 -1404 E - F 1506 -594 I - J 815 -1612 F - G 1510 -595

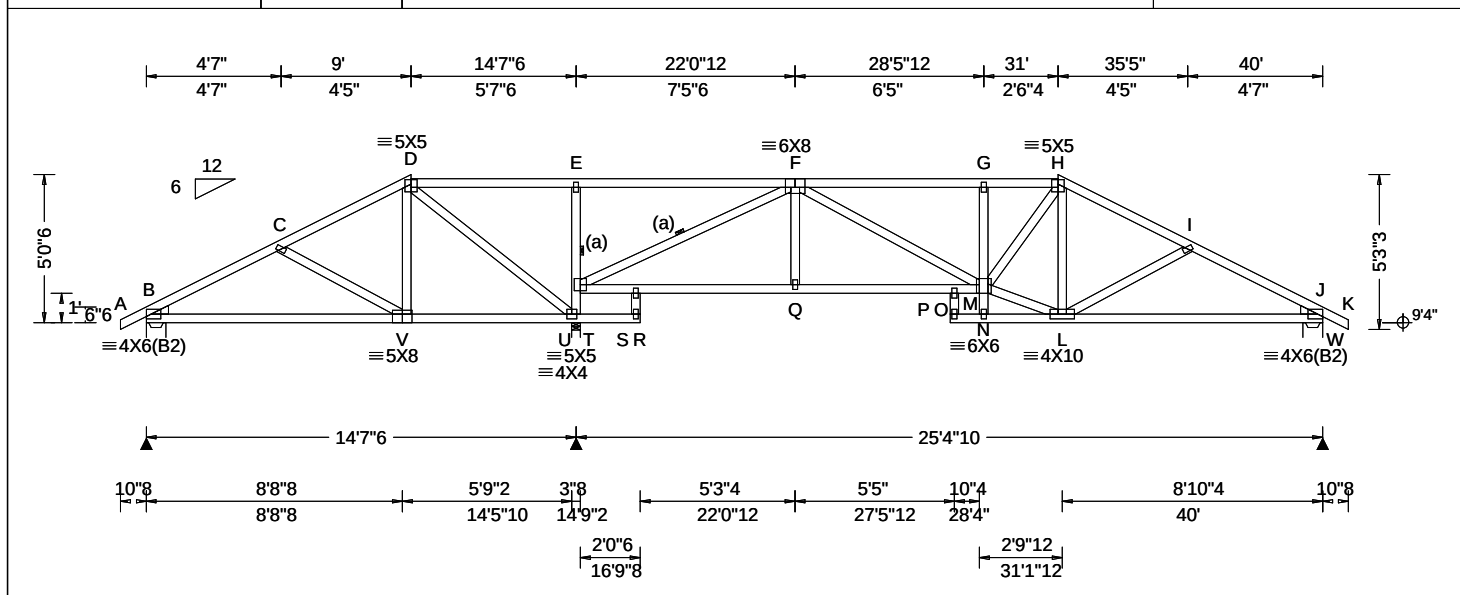
Bracing	Maximum Bot Chord Forces Per Ply (lbs)
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor. (a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.	Chords Tens.Comp. Chords Tens. Comp. X - V 534 -789 Q - O 648 -255 V - T 538 -773 O - M 638 -240 T - S 663 -250 L - J 1353 -596 S - Q 648 -255

Plating Notes	Maximum Web Forces Per Ply (lbs)
All plates are 2X4 except as noted.	Webs Tens.Comp. Webs Tens. Comp. D - X 368 -415 T - U 1477 -2508 X - E 808 -430 T - G 1300 -2149 E - T 656 -1224 G - M 881 -323 F - T 514 -473 M - L 1342 -580

Wind	Professional Engineer Seal
Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types. Note: Laterally brace bottom chord above filler at 20" O.C.Max. including a lateral brace at chord ends.	Yoonhwak Kim LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

COA#0-278, Yoonhwak Kim, FL PE #86367 Florida Certificate of Product Approval #FL 1999 **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 continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR 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. Refer to job's General Notes page for additional information. 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 and 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 these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	ALPINE AN ITW COMPANY 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 837526 / FROM: ARZ	HIPS Qty: 1	Ply: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A7T	Cust: R 8975 JRef: 1YdO89750003 T10 / DrwNo: 267.25.0813.23403 KD / YK 09/24/2025
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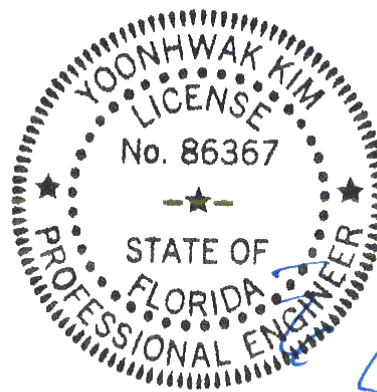
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.00 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.104 G 999 240 VERT(CL): 0.242 G 999 240 HORZ(LL): 0.022 J - - HORZ(TL): 0.051 J - - Creep Factor: 2.0 Max TC CSI: 0.781 Max BC CSI: 0.805 Max Web CSI: 0.833 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 680 /- /- /504 /269 /218 U 2020 /- /- /1200 /712 /- W 1212 /- /- /894 /467 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.5 (Truss) U Brg Wid = 3.5 Min Req = 2.4 (Truss) W Brg Wid = 8.0 Min Req = 1.7 (Truss) Bearings B, U, & J are a rigid surface. Bearings B & J require a seat plate. Members not listed have forces less than 375#

Lumber	Maximum Top Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2 N; Bot chord: 2x4 SP #2 N; Webs: 2x4 SP #3; Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;	Chords Tens.Comp. Chords Tens. Comp. B - C 503 -879 G - H 1430 -2008 C - D 343 -524 H - I 1050 -1640 F - G 1432 -2015 I - J 1169 -1943

Bracing	Maximum Bot Chord Forces Per Ply (lbs)
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor. (a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.	Chords Tens.Comp. Chords Tens. Comp. B - V 724 -388 Q - O 1588 -878 T - S 1640 -904 O - M 1574 -853 S - Q 1588 -878 L - J 1655 -905

Plating Notes	Maximum Web Forces Per Ply (lbs)
All plates are 2X4 except as noted.	Webs Tens.Comp. Webs Tens. Comp. C - V 368 -388 T - F 1198 -2021 V - D 415 -104 F - M 634 -284 D - U 326 -732 G - M 441 -425 U - T 1025 -1459 M - H 1001 -723 E - T 585 -561 M - L 1496 -718

Wind
Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types. Note: Laterally brace bottom chord above filler at 20" O.C.Max. including a lateral brace at chord ends.

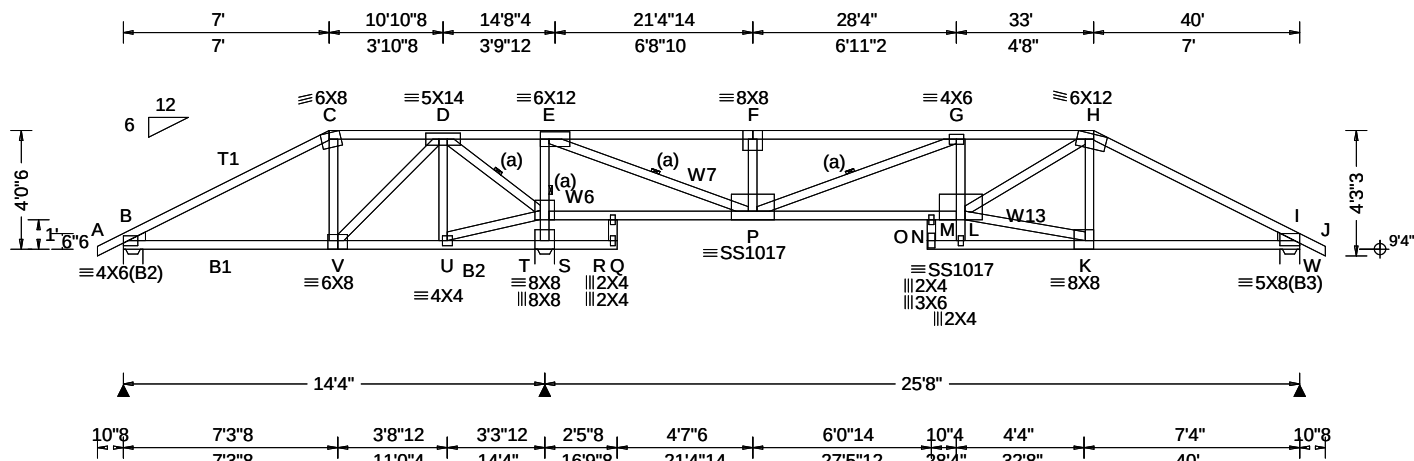


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 15.00	Speed: 160 mph	Pf: NA Ce: NA	VERT(LL): 0.266 G 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.603 G 509 240	B	815	/-	/-	/-	/260	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.057 I - -	T	5998	/-	/-	/-	/2602	/-
	EXP: C Kzt: NA		HORZ(TL): 0.129 I - -	W	2445	/-	/-	/-	/995	/-
Des Ld: 45.00	Mean Height: 15.00 ft		Creep Factor: 2.0	Wind reactions based on MWFRS						
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Max TC CSI: 0.955	B	Brg Wid = 8.0		Min Req = 1.5 (Truss)			
Soffit: 0.00	BCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max BC CSI: 0.878	T	Brg Wid = 8.0		Min Req = 7.1 (Truss)			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.950	W	Brg Wid = 8.0		Min Req = 2.0 (Truss)			
Spacing: 24.0 "	C&C Dist a: 4.00 ft	Rep Fac: Varies by Ld Case		Bearings B, T, & I are a rigid surface.						
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)		Bearings B, T, & I require a seat plate.						
	GCpi: 0.18	Plate Type(s):		Members not listed have forces less than 375#						
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 23.02.01A.1204.18	Maximum Top Chord Forces Per Ply (lbs)						

Lumber

Top chord: 2x4 SP 2400f-2.0E; T1 2x4 SP #2 N;
Bot chord: 2x4 SP 2400f-2.0E; B1 2x4 SP #2 N;
B2 2x4 SP #1;
Webs: 2x4 SP #3; W6,W13 2x4 SP #2 N;
W7 2x4 SP 2400f-2.0E;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Bracing

(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

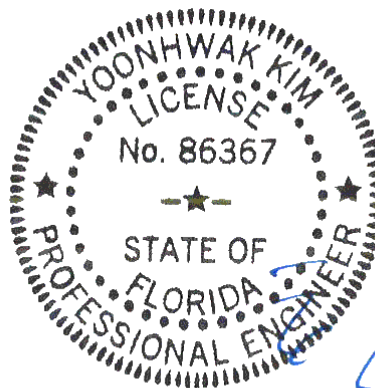
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Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Note: Laterally brace bottom chord above filler at 2'0" O.C.Max. including a lateral brace at chord ends.



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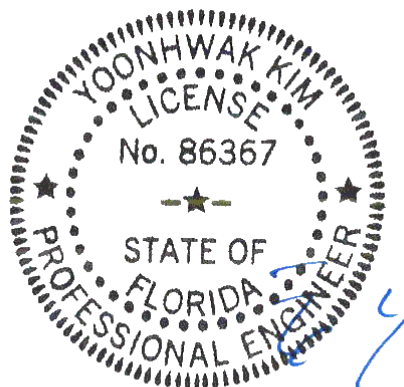
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 837770	HIPS	Ply: 1	Job Number: 402471	Cust: R 8975 JRef: 1YdO89750003 T39
FROM: ARZ		Qty: 1	,7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A	DrwNo: 267.25.0920.32770
Page 2 of 2			Truss Label: A8GT	KD / YK 09/24/2025

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 74 plf at -0.88 to 74 plf at 7.00
TC: From 37 plf at 7.00 to 37 plf at 33.00
TC: From 74 plf at 33.00 to 74 plf at 40.88
BC: From 20 plf at 0.00 to 20 plf at 7.29
BC: From 10 plf at 7.29 to 10 plf at 32.97
BC: From 20 plf at 32.97 to 20 plf at 40.00
TC: 522 lb Conc. Load at 7.03,32.97
TC: 237 lb Conc. Load at 8.94,10.94,12.94,14.94
28.94,30.94
TC: 230 lb Conc. Load at 16.94,18.94,20.94,22.94
24.94,26.94
BC: 567 lb Conc. Load at 7.03,32.97
BC: 135 lb Conc. Load at 8.94,10.94,12.94,14.94
28.94,30.94
BC: 127 lb Conc. Load at 16.94,18.94,20.94,22.94
24.94,26.94

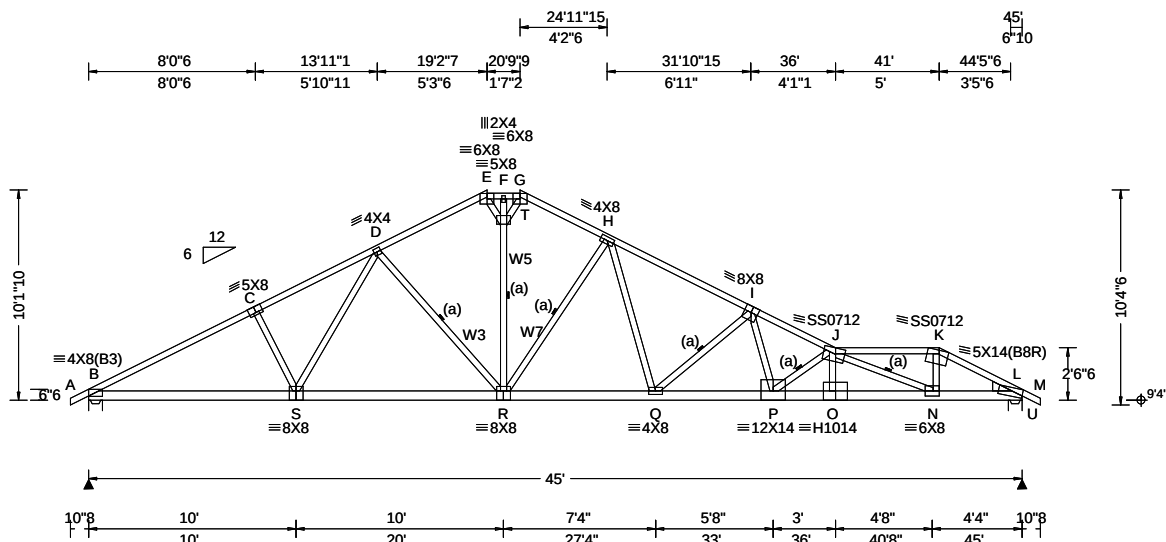


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 837693 / FROM: ARZ	COMN Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A9G	Cust: R 8975 JRef:1YdO89750003 T54 / DrwNo: 267.25.0813.23794 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.352 P 999 268 VERT(CL): 0.808 P 664 268 HORZ(LL): 0.090 E - - HORZ(TL): 0.208 E - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.804 Max Web CSI: 0.951 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2322 - / - / - / - /841 - / - U 3562 - / - / - / - /1177 - / - Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.9 (Truss) U Brg Wid = 8.0 Min Req = 3.0 (Truss) Bearings B & L are a rigid surface. Bearings B & L require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W3,W5,W7 2x4 SP #2 N;
Rt Wedge: 2x6 SP #2 N;

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Bracing
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.
(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

Special Loads
-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 74 plf at -0.88 to 74 plf at 45.88
BC: From 20 plf at 0.00 to 20 plf at 40.06
BC: From 10 plf at 40.06 to 10 plf at 40.97
BC: From 20 plf at 40.97 to 20 plf at 45.00
TC: 130 lb Conc. Load at 40.97
TC: 137 lb Conc. Load at 41.00
BC: 1110 lb Conc. Load at 40.06
BC: 184 lb Conc. Load at 40.97

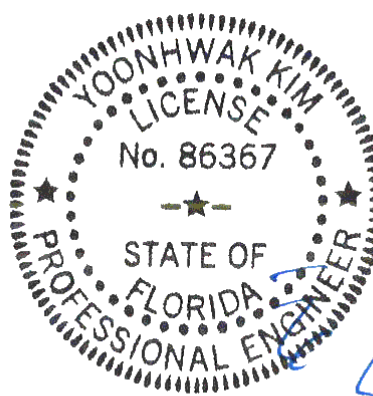
Wind
Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	1511 - 4149	G - H	1069 - 3012
C - D	1375 - 3909	H - I	1626 - 4663
D - E	1079 - 3031	I - J	2454 - 7189
E - F	1130 - 3339	J - K	1988 - 6244
F - G	1140 - 3354	K - L	2179 - 6712

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	3592 - 1285	P - O	9411 - 3135
S - R	3112 - 1112	O - N	9401 - 3137
R - Q	3559 - 1249	N - L	5908 - 1908
Q - P	5849 - 2011		

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	3592 - 1285	P - O	9411 - 3135
S - R	3112 - 1112	O - N	9401 - 3137
R - Q	3559 - 1249	N - L	5908 - 1908
Q - P	5849 - 2011		

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	3592 - 1285	P - O	9411 - 3135
S - R	3112 - 1112	O - N	9401 - 3137
R - Q	3559 - 1249	N - L	5908 - 1908
Q - P	5849 - 2011		

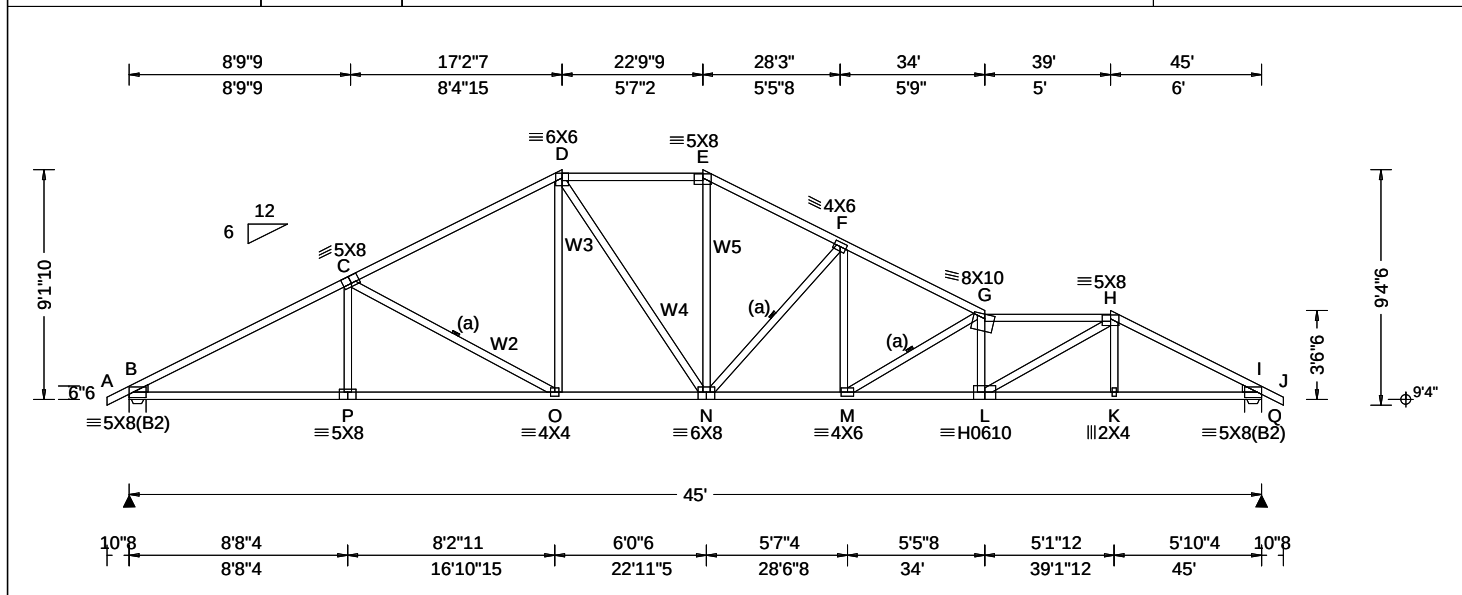


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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 837563 / FROM: ARZ	COMN Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A10	Cust: R 8975 JRef: 1YdO89750003 T21 / DrwNo: 267.25.0813.23873 KD / YK 09/24/2025
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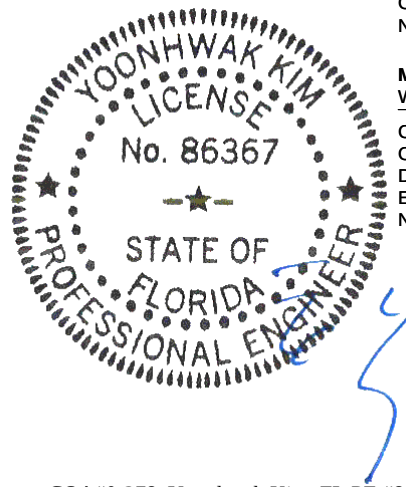
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.278 M 999 268 VERT(CL): 0.644 M 834 268 HORZ(LL): 0.090 I - - HORZ(TL): 0.210 I - - Creep Factor: 2.0 Max TC CSI: 0.569 Max BC CSI: 0.613 Max Web CSI: 0.952 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2169 - / - / - /1473 /365 /394 Q 2169 - / - / - /1460 /352 - / - Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.8 (Truss) Q Brg Wid = 8.0 Min Req = 1.8 (Truss) Bearings B & I are a rigid surface. Bearings B & I require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP 2400f-2.0E; Bot chord: 2x4 SP 2400f-2.0E; Webs: 2x4 SP #3; W2,W3,W4,W5 2x4 SP #2 N; Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;	Chords Tens.Comp. Chords Tens. Comp. B - C 1895 - 3810 F - G 2365 - 4230 C - D 1742 - 3032 G - H 3149 - 5500 D - E 1772 - 2700 H - I 2199 - 3901 E - F 1878 - 3118

Bracing	Maximum Bot Chord Forces Per Ply (lbs)
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor. (a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.	Chords Tens.Comp. Chords Tens. Comp. B - P 3274 - 1570 M - L 5500 - 2910 P - O 3272 - 1572 L - K 3388 - 1829 O - N 2574 - 1158 K - I 3388 - 1824 N - M 3647 - 1765

Wind	Maximum Web Forces Per Ply (lbs)
Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	Webs Tens.Comp. Webs Tens. Comp. C - O 469 - 781 F - M 1163 - 595 O - D 602 - 169 M - G 1299 - 2092 D - N 393 - 257 G - L 757 - 1216 E - N 965 - 490 L - H 2500 - 1336 N - F 882 - 1403

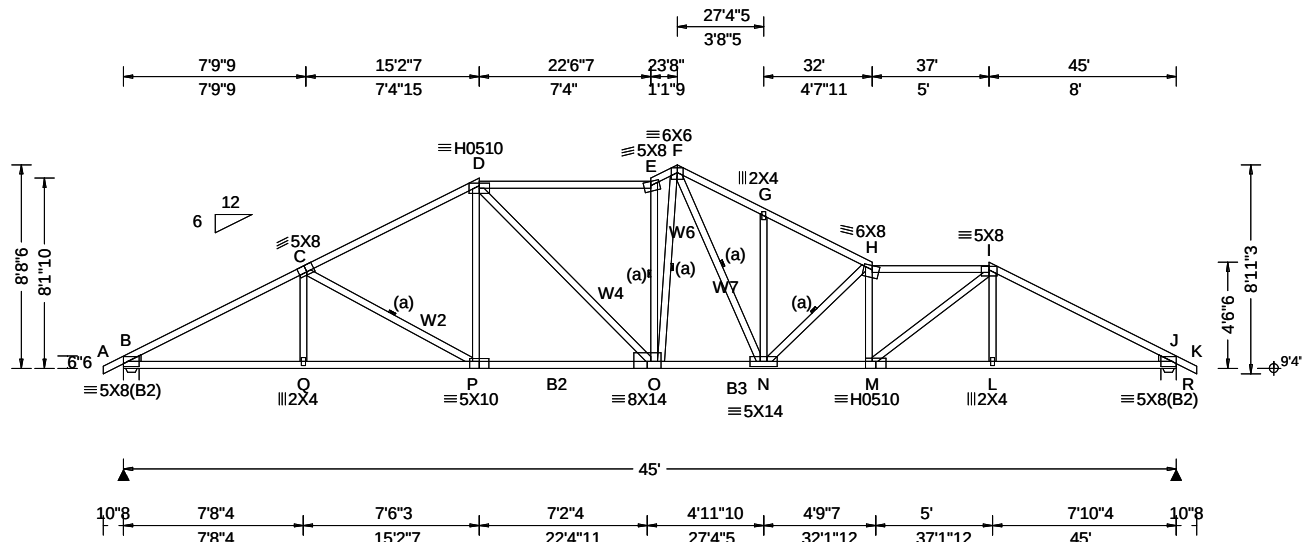
Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



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Florida Certificate of Product Approval #FL 1999

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SEQN: 837583 / FROM: ARZ	COMN Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A11	Cust: R 8975 JRef: 1YdO89750003 T24 / DrwNo: 267.25.0813.23512 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.276 E 999 268 VERT(CL): 0.641 E 839 268 HORZ(LL): 0.094 J - - HORZ(TL): 0.218 J - - Creep Factor: 2.0 Max TC CSI: 0.563 Max BC CSI: 0.947 Max Web CSI: 0.816 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2165 - / - / - /1468 /376 /374 R 2168 - / - / - /1461 /352 - / - Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.8 (Truss) R Brg Wid = 8.0 Min Req = 1.8 (Truss) Bearings B & J are a rigid surface. Bearings B & J require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP 2400f-2.0E; B2 2x4 SP #2 N;
B3 2x4 SP #1;
Webs: 2x4 SP #3; W2,W4,W6,W7 2x4 SP #2 N;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Bracing

(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

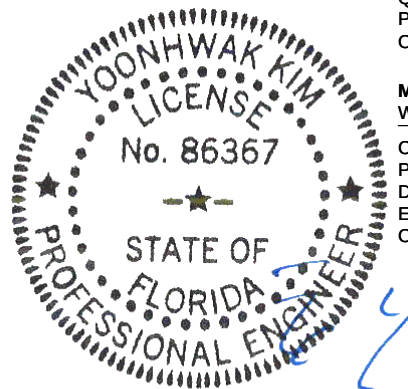
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

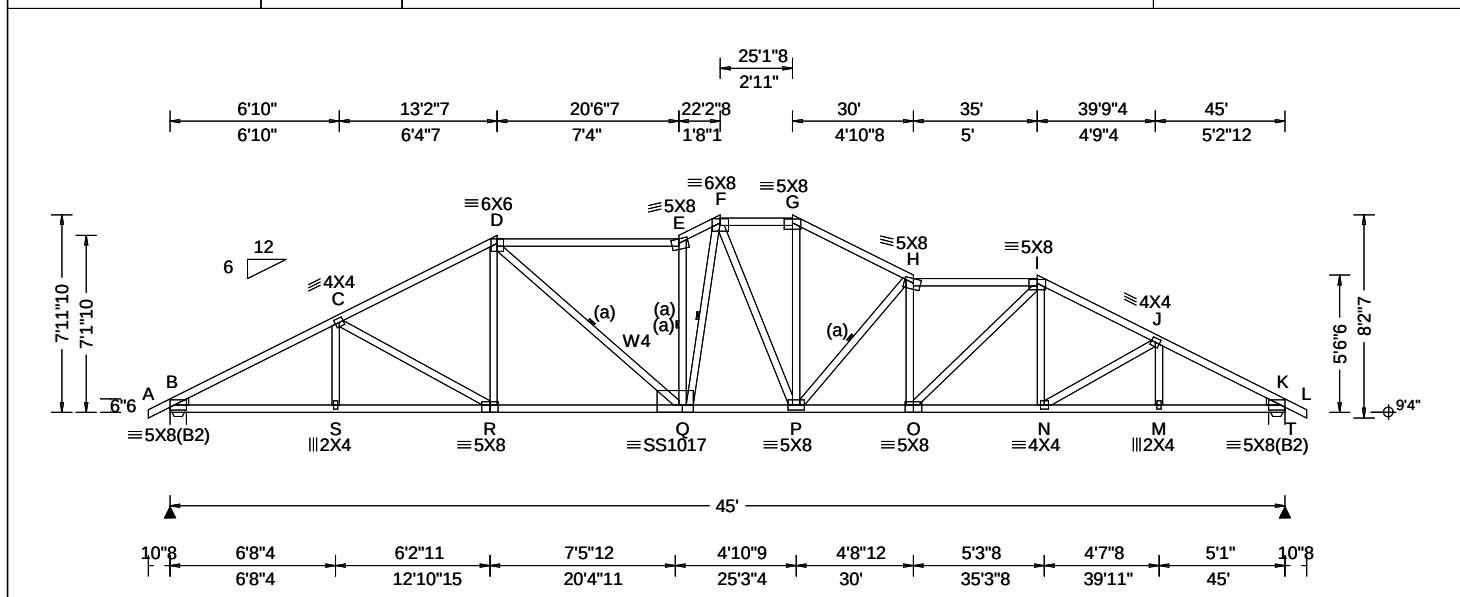
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Florida Certificate of Product Approval #FL 1999

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.259 E 999 268 VERT(CL): 0.600 E 896 268 HORZ(LL): 0.085 K - - HORZ(TL): 0.198 K - - Creep Factor: 2.0 Max TC CSI: 0.525 Max BC CSI: 0.610 Max Web CSI: 0.862 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 2169 - / - / - /1462 /391 /343 T 2169 - / - / - /1460 /419 - / - Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.8 (Truss) T Brg Wid = 8.0 Min Req = 1.8 (Truss) Bearings B & K are a rigid surface. Bearings B & K require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	B - C	2178	- 3839	G - H	2353	- 3530
Top chord: 2x4 SP 2400f-2.0E;	C - D	2122	- 3378	H - I	2708	- 4054
Bot chord: 2x4 SP 2400f-2.0E;	D - E	2390	- 3478	I - J	2312	- 3609
Webs: 2x4 SP #3; W4 2x4 SP #2 N;	E - F	2702	- 3887	J - K	2283	- 3820
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;	F - G	2177	- 3064			

Bracing	
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.	

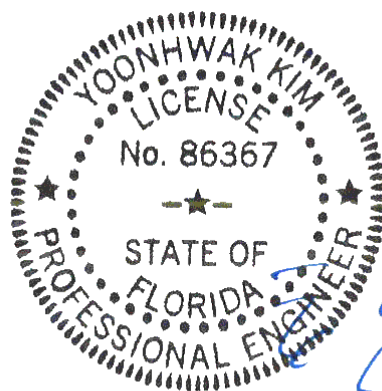
restraint: substitute (1) scab for (1) CLR and (2) scabs for (2) CLR's where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

Wind
 Wind loads based on MWFRS with additional C&C member design.

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens.	Comp.
C - R	264 - 451	G - P	1232	- 768
R - D	480 - 85	P - H	1038	- 1430
D - Q	734 - 564	H - O	655	- 833
E - Q	1601 - 2070	O - I	1264	- 813
Q - F	1722 - 1230			

Additional Notes

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 10/04/2025
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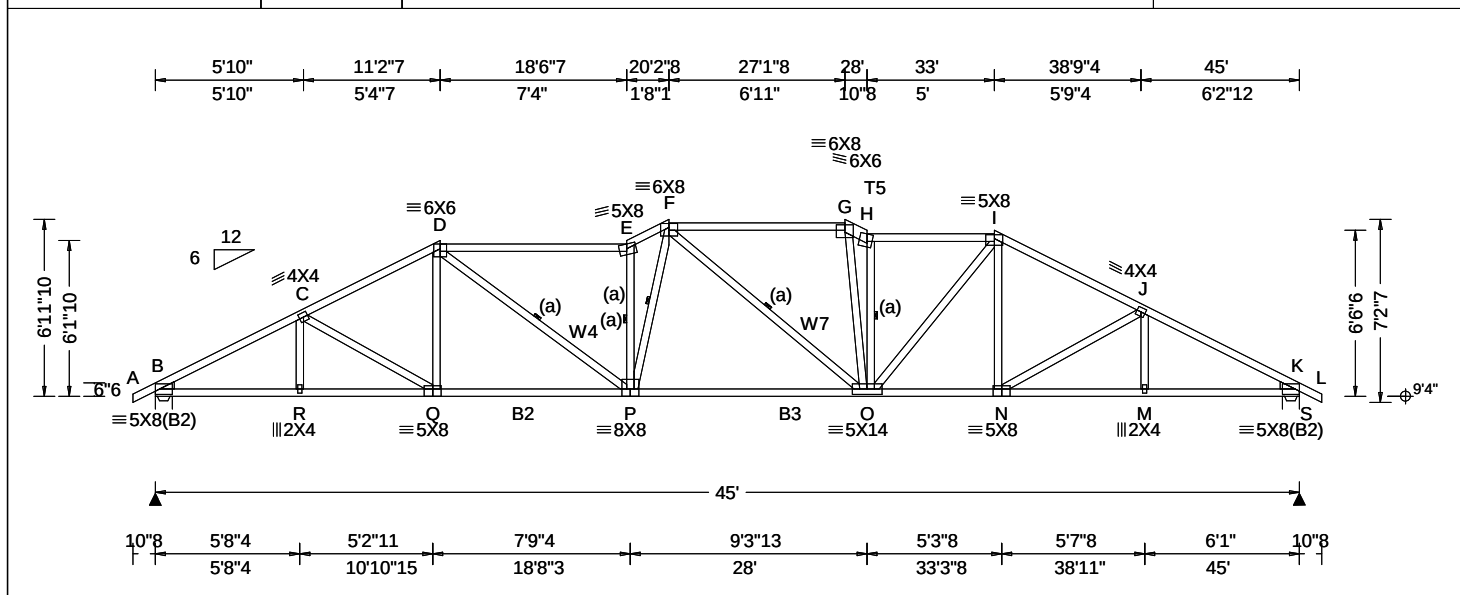
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 837598 / FROM: ARZ	COMN Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A13	Cust: R 8975 JRef:1YdO89750003 T22 / DrwNo: 267.25.0813.23732 KD / YK 09/24/2025
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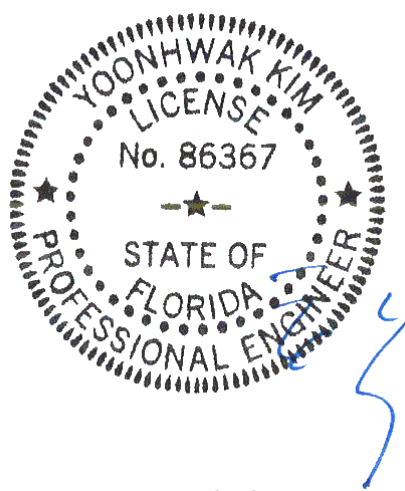
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.277 E 999 268 VERT(CL): 0.642 E 837 268 HORZ(LL): 0.095 K - - HORZ(TL): 0.220 K - - Creep Factor: 2.0 Max TC CSI: 0.521 Max BC CSI: 0.808 Max Web CSI: 0.992 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2169 - / - / - /1452 /803 /301 S 2169 - / - / - /1453 /802 - / - Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.8 (Truss) S Brg Wid = 8.0 Min Req = 1.8 (Truss) Bearings B & K are a rigid surface. Bearings B & K require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP 2400f-2.0E; T5 2x6 SP SS; Bot chord: 2x4 SP 2400f-2.0E; B2,B3 2x4 SP #1; Webs: 2x4 SP #3; W4,W7 2x4 SP #2 N; Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;	Chords Tens.Comp. Chords Tens. Comp. B - C 2348 - 3831 G - H 2706 - 3871 C - D 2360 - 3532 H - I 2551 - 3619 D - E 2815 - 4002 I - J 2292 - 3456 E - F 3126 - 4421 J - K 2316 - 3845 F - G 2504 - 3478

Bracing	Maximum Web Forces Per Ply (lbs)
(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor. (a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.	Chords Tens.Comp. Chords Tens. Comp. B - R 3310 - 2024 O - N 3014 - 1753 R - Q 3310 - 2027 N - M 3323 - 1942 Q - P 3100 - 1900 M - K 3323 - 1939 P - O 3547 - 2174

Wind	Maximum Web Forces Per Ply (lbs)
Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	Chords Tens.Comp. Chords Tens. Comp. D - P 1139 - 821 O - H 1134 - 1588 E - P 1712 - 2243 O - I 958 - 713 P - F 1767 - 1194 N - J 233 - 393 G - O 1069 - 589

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



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Glenview, IL 60025

Lumber	Plating Notes	A - B	1245 - 3294	J - K	987 - 2662
Top chord: 2x4 SP #2 N; T1 2x6 SP 2400f-2.0E;	All plates are 2X4 except as noted.	B - C	1245 - 3294	K - L	988 - 2662
Bot chord: 2x6 SP 2400f-2.0E;		C - D	1245 - 3294	L - M	857 - 2315
B2 2x4 SP 2400f-2.0E; B3 2x4 SP #2 N;	(++) - This plate works for both joints covered.	D - F	1246 - 3299	M - N	726 - 1979
B4 2x4 SP #1;		F - G	1222 - 3233	N - O	802 - 2162
Webbs: 2x4 SP #3; W2 2x4 SP 2400f-2.0E; W10,W14,	Wind	I - J	1290 - 3458	O - P	818 - 2203
W16,W20 2x4 SP #2 N;	Wind loads and reactions based on MWFRS.				
Rt Wedge: 2x4 SP #3;	Left end vertical not exposed to wind pressure				
					Maximum Bot Chord Forces Per Ply (lbs)

supplied and attached at both ends to a suitable support by erection contractor.

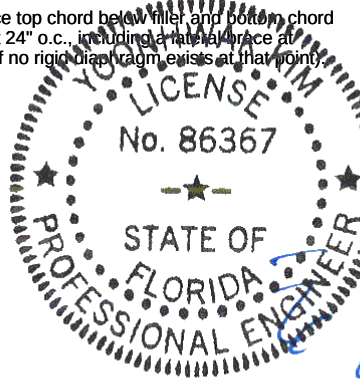
Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.



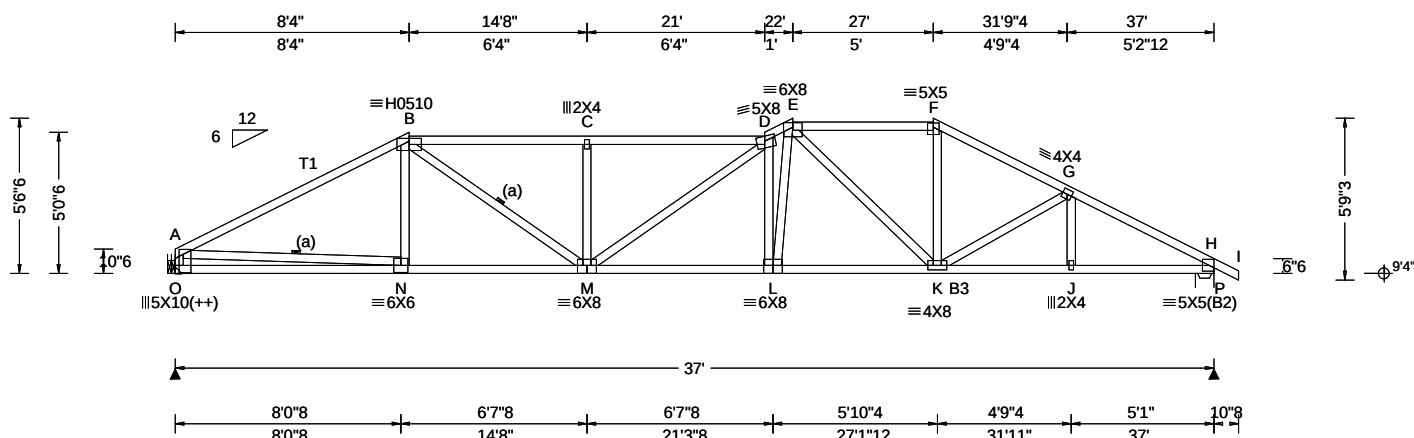
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens.	Comp.
A - Y	679 - 1680	G - I	1107	- 2987
A - Z	3550 - 1341	G - U	513	- 194
Z - AA	3576 - 1352	I - U	526	- 1314
AA-AC	3557 - 1343	U - J	1492	- 539
AC-AD	3562 - 1345	T - L	623	- 237
AD - V	3519 - 1328	L - S	601	- 1522

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SEQN: 837666 / FROM: ARZ	SPEC Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A15	Cust: R 8975 JRef:1YdO89750003 T1 / DrwNo: 267.25.0813.23810 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.70 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.237 D 999 240 VERT(CL): 0.550 D 804 240 HORZ(LL): 0.068 H - - HORZ(TL): 0.157 H - - Creep Factor: 2.0 Max TC CSI: 0.940 Max BC CSI: 0.947 Max Web CSI: 0.886 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL O 1726 - / - / - /1097 /637 /216 P 1800 - / - / - /1195 /668 - / - Wind reactions based on MWFRS O Brg Wid = - Min Req = - P Brg Wid = 8.0 Min Req = 2.1 (Truss) Bearing H is a rigid surface. Bearing H requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2 N; T1 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2 N; B3 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) 1X4 #3SRB or better continuous lateral restraint to be equally spaced. Attach with (2) 8d Box or Gun nails(0.113"x2.5",min.). Restraint material to be supplied and attached at both ends to a suitable support by erection contractor.

(a) or scab reinforcement may be used in lieu of CLR restraint. substitute (1) scab for (1) CLR and (2) scabs for (2) CLR'S where shown. Scab reinforcement to be same size, species, grade, and 80% length of web member. Attach with 0.128x3" gun nails @ 6" oc.

Plating Notes

(++) - This plate works for both joints covered.

Hangers / Ties

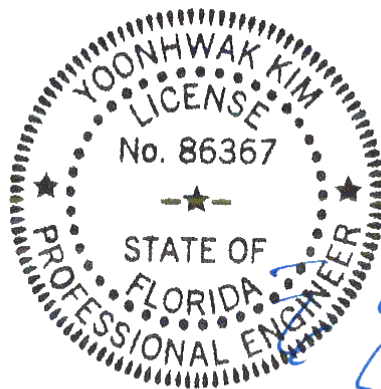
(J) Hanger Support Required, by others

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	409 -263	L - K	2996 -1910
N - M	2480 -1565	K - J	2664 -1630
M - L	3376 -2192	J - H	2663 -1626

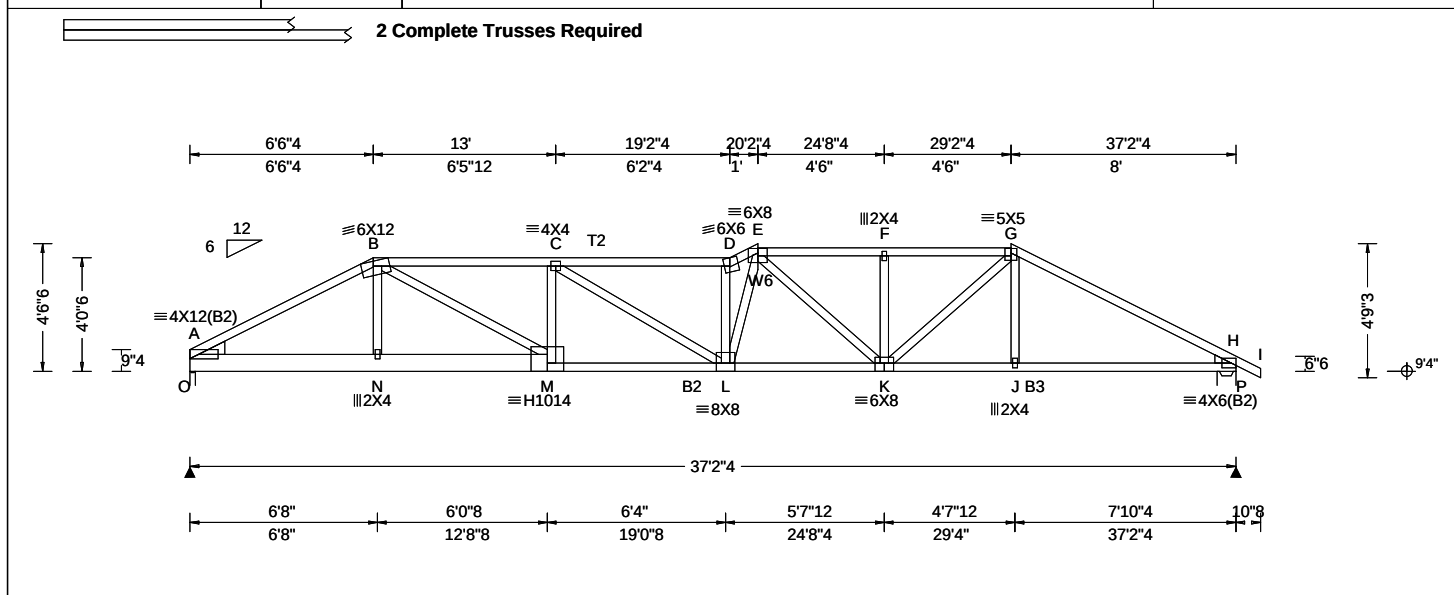
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - O	1106 -1653	D - L	1465 -1825
A - N	2224 -1414	L - E	1959 -1403
B - M	1112 -896	E - K	635 -779
C - M	598 -534	F - K	818 -482

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Glenview, IL 60025

SEQN: 837766 FROM: ARZ	COMN Ply: 2 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: A16G	Cust: R 8975 JRef:1YdO89750003 T35 DrwNo: 267.25.0920.06300 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.72 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.340 D 999 240 VERT(CL): 0.775 D 573 240 HORZ(LL): 0.074 H - - HORZ(TL): 0.169 H - - Creep Factor: 2.0 Max TC CSI: 0.954 Max BC CSI: 0.858 Max Web CSI: 0.927 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL O 4978 - / - / - / - /1953 - / - P 3075 - / - / - / - /1186 - / - Wind reactions based on MWFRS O Brg Wid = 2.2 Min Req = 2.1 (Truss) P Brg Wid = 8.0 Min Req = 1.8 (Truss) Bearings O & H are a rigid surface. Bearings O & H require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2 N; T2 2x4 SP 2400f-2.0E;
Bot chord: 2x8 SP 2400f-2.0E;
B2 2x4 SP 2400f-2.0E; B3 2x4 SP #1;
Webs: 2x4 SP #3; W6 2x4 SP #2 N;
Lt Wedge: 2x6 SP #2 N; Rt Wedge: 2x4 SP #3;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 74 plf at 0.00 to 74 plf at 6.52
TC: From 37 plf at 6.52 to 37 plf at 12.12
TC: From 74 plf at 12.12 to 74 plf at 38.06
BC: From 20 plf at 0.00 to 20 plf at 6.55
BC: From 10 plf at 6.55 to 10 plf at 12.71
BC: From 20 plf at 12.71 to 20 plf at 37.19
TC: 522 lb Conc. Load at 6.55
TC: 237 lb Conc. Load at 8.58,10.58
BC: 567 lb Conc. Load at 6.55
BC: 135 lb Conc. Load at 8.58,10.58
BC: 2947 lb Conc. Load at 12.12

Wind
Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

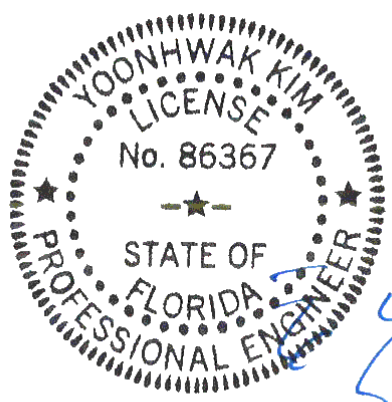
Blocking
Apply additional nailing over the following bearings
with fasteners at 9" oc perpendicular to grain and
4" oc parallel to grain. In lieu of additional
nailing, apply blocking reinforcement to
prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - B	1856 - 4691	E - F	1420 - 3679
B - C	2460 - 6244	F - G	1420 - 3679
C - D	2013 - 5196	G - H	1109 - 2863
D - E	2207 - 5697		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - M	2433 - 964	L - E	2926 - 1119
C - L	521 - 1206	E - K	450 - 1128
L - D	867 - 2218	K - G	1610 - 629



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Glenview, IL 60025

The drawing illustrates a roof truss system with the following components and dimensions:

- Members:**
 - Top Chords: $\cong 6 \times 8$ (C, E)
 - Bottom Chords: $\cong 5 \times 10$ (B8R) (A, F)
 - Vertical Members: $\cong 8 \times 8$ (H), $\cong 2 \times 4$ (D, T2)
 - Diagonal Members: $\cong 3 \times 6$ (I, G)
- Connections:**
 - Panel Point Connections: $\cong 6 \times 8$ (B, D, E, F)
 - End Connections: $\cong 5 \times 10$ (B8R) (A, F)
- Dimensions:**
 - Overall Length: 25'
 - Overall Height: 4'0"6"
 - Panel Lengths: 7'1"12, 12'6", 17'10"4, 25'
 - Panel Heights: 4'3"3, 9'4"

Lumber	B - C	2327 - 5658	D - E	2481 - 5987
Top chord: 2x4 SP #1; T2 2x4 SP 2400f-2.0E;	C - D	2481 - 5988	E - F	2256 - 5497
Bot chord: 2x6 SP SS;				
Webs: 2x4 SP #3;	Maximum Bot Chord Forces Per Ply (lbs)			
Rt Wedge: 2x4 SP #3;	Chords	Tens.Comp.	Chords	Tens. Comp.

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)			
TC: From	74 plf at	-0.88 to	74 plf at 7.00
TC: From	37 plf at	7.00 to	37 plf at 18.00
TC: From	74 plf at	18.00 to	74 plf at 25.00
BC: From	20 plf at	0.00 to	20 plf at 7.03
BC: From	10 plf at	7.03 to	10 plf at 17.97
BC: From	20 plf at	17.97 to	20 plf at 25.00
TC: 522 lb Conc. Load at 7.03, 17.97			

BC: 567 lb Conc. Load at 7.03,17.97
BC: 135 lb Conc. Load at 7.94, 9.94,11.94,13.94
15.94

Hangers / Ties

(c) [REDACTED]

Wind loads and reactions based on MWERS

Wind loading based on both gable and hip roof types.

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000004/2025

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diagonal bracing installed on the CLR 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. Refer to job's General

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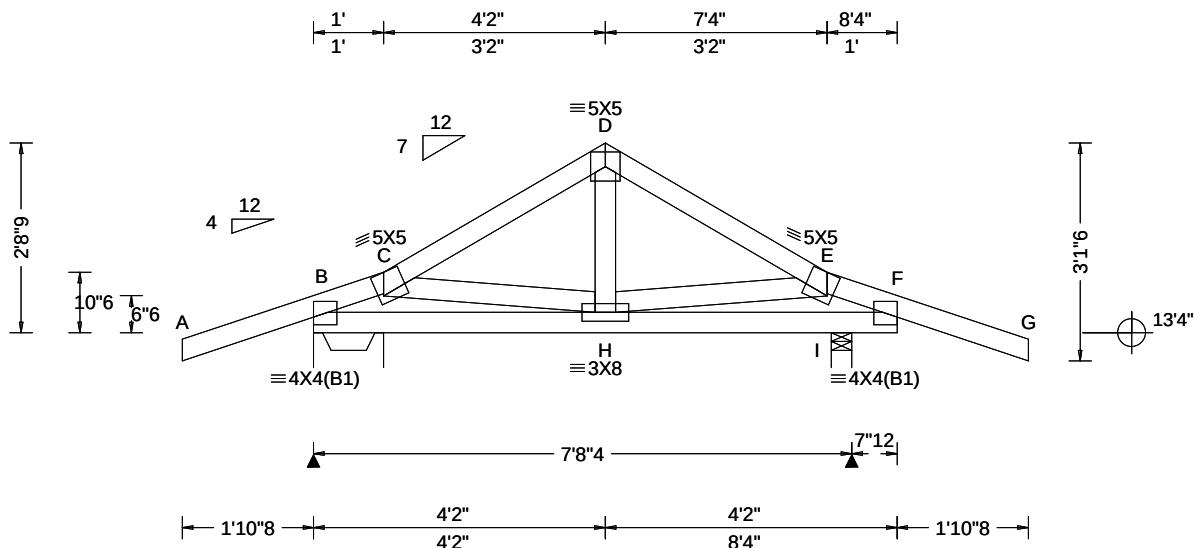
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SEQN: 103923/ FROM: ARZ	SPEC	Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: C1	Cust: R 8975 JRef:1YdO89750003 T28 / DrwNo: 267.25.0813.23074 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.034 E 999 240 VERT(CL): 0.073 E 999 240 HORZ(LL): 0.010 D - - HORZ(TL): 0.022 D - - Creep Factor: 2.0 Max TC CSI: 0.482 Max BC CSI: 0.552 Max Web CSI: 0.085 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 496 /- /- /368 /183 /118 I 575 /- /- /441 /213 /- Wind reactions based on MWFRS B Brg Wid = 12.0 Min Req = 2.0 I Brg Wid = 3.5 Min Req = 2.0 Bearings B & I are a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 440 -346 E - F 432 -339

Lumber

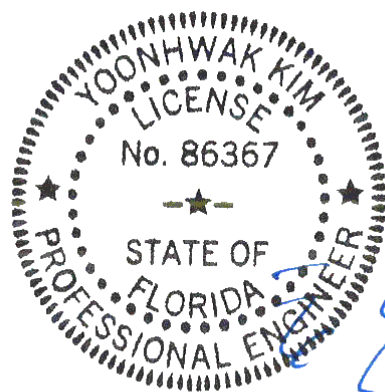
Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Right cantilever is exposed to wind
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	367 -404	H - F	719 -812

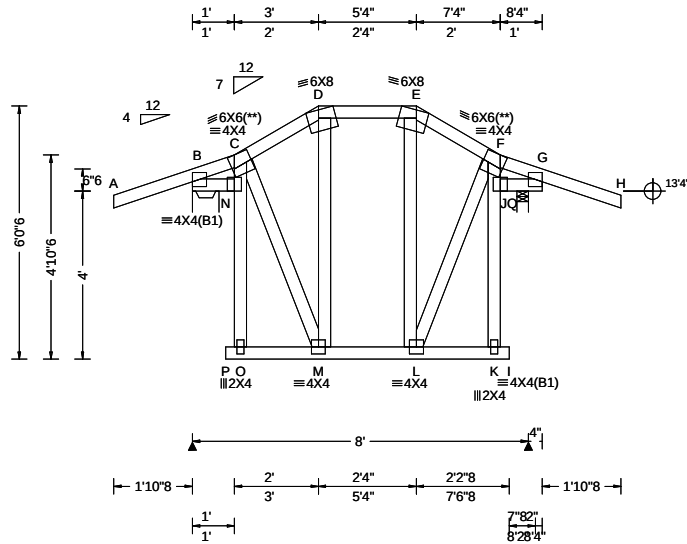


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Glenview, IL 60025

SEQN: 837772 FROM: ARZ	SPEC Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: C2G	Cust: R 8975 JRef:1YdO89750003 T18 DrwNo: 267.25.0921.06127 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.025 P 999 240 VERT(CL): 0.054 P 999 240 HORZ(LL): 0.025 J - - HORZ(TL): 0.054 J - - Creep Factor: 2.0 Max TC CSI: 0.320 Max BC CSI: 0.501 Max Web CSI: 0.672 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 664 /- /- /- /307 /- Q 801 /- /- /- /365 /- Wind reactions based on MWFRS B Brg Wid = 7.6 Min Req = 1.5 (Truss) Q Brg Wid = 3.2 Min Req = 1.5 (Truss) Bearings B & Q are a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 159 -406

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;
Webs: 2x4 SP #3;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

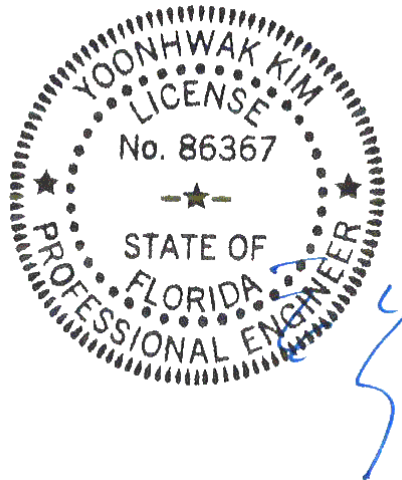
TC: From 72 plf at -2.06 to 72 plf at 0.81	TC: From 72 plf at 0.81 to 75 plf at 2.81
TC: From 36 plf at 2.81 to 36 plf at 5.15	TC: From 75 plf at 5.15 to 75 plf at 7.15
TC: From 75 plf at 7.15 to 72 plf at 10.02	BC: From 20 plf at -0.19 to 20 plf at 0.81
BC: From 20 plf at 0.81 to 10 plf at 7.15	BC: From 10 plf at 7.15 to 20 plf at 8.15
TC: 70 lb Conc. Load at 2.88	TC: 140 lb Conc. Load at 4.98
TC: 134 lb Conc. Load at 5.11	BC: 86 lb Conc. Load at 2.82
BC: 73 lb Conc. Load at 4.98	BC: 64 lb Conc. Load at 5.11

Plating Notes

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind

Wind loads and reactions based on MWFRS.
Right cantilever is exposed to wind
Wind loading based on both gable and hip roof types.

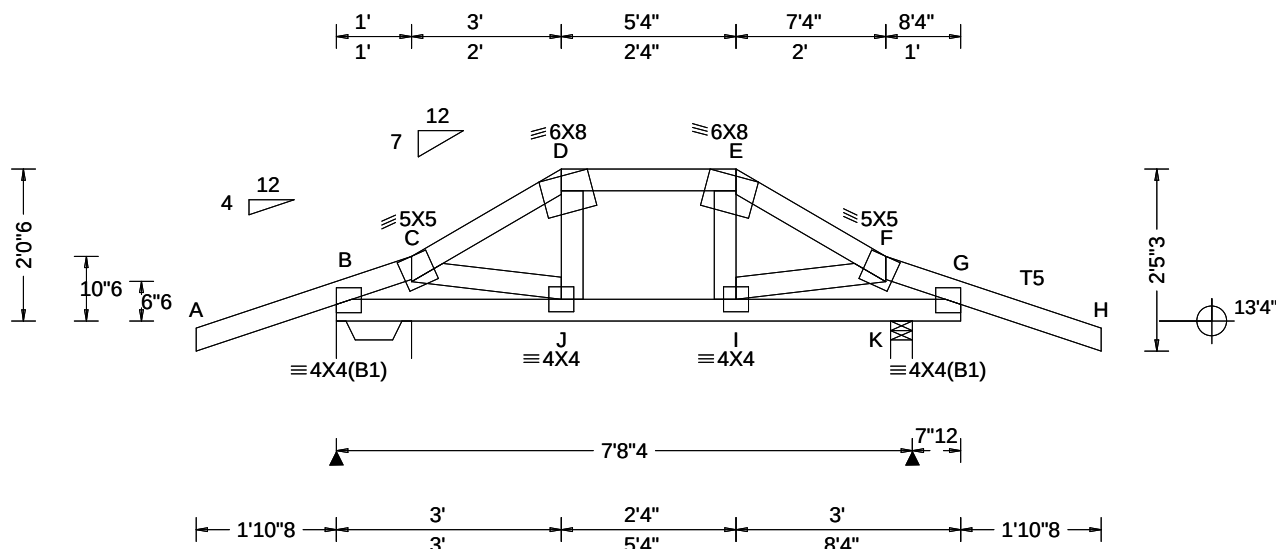


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SEQN: 837774 FROM: ARZ	SPEC Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: C3G	Cust: R 8975 JRef:1YdO89750003 T25 DrwNo: 267.25.0921.30007 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.033 J 999 240 VERT(CL): 0.064 J 999 240 HORZ(LL): 0.014 D - - HORZ(TL): 0.028 D - - Creep Factor: 2.0 Max TC CSI: 0.383 Max BC CSI: 0.562 Max Web CSI: 0.102 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 604 /- /- /- /249 /- K 682 /- /- /- /286 /- Wind reactions based on MWFRS B Brg Wid = 12.0 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 146 -502 E - F 132 -478 C - D 151 -509 F - G 62 -412 D - E 110 -405

Lumber

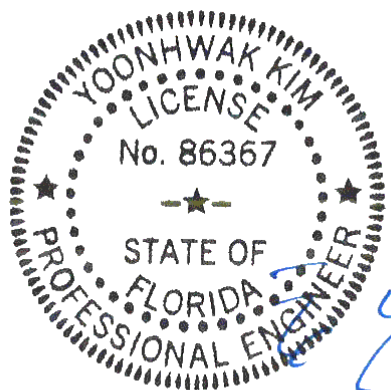
Top chord: 2x4 SP #2 N; T5 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 72 plf at -1.88 to 72 plf at 1.00
TC: From 75 plf at 1.00 to 75 plf at 3.00
TC: From 36 plf at 3.00 to 36 plf at 5.33
TC: From 75 plf at 5.33 to 75 plf at 7.33
TC: From 72 plf at 7.33 to 72 plf at 10.21
BC: From 20 plf at 0.00 to 20 plf at 3.03
BC: From 10 plf at 3.03 to 10 plf at 5.15
BC: From 20 plf at 5.15 to 20 plf at 8.33
TC: 135 lb Conc. Load at 3.03
TC: 180 lb Conc. Load at 5.15
BC: 53 lb Conc. Load at 3.03
BC: -42 lb Conc. Load at 5.15

Wind

Wind loads and reactions based on MWFRS.
Right cantilever is exposed to wind
Wind loading based on both gable and hip roof types.

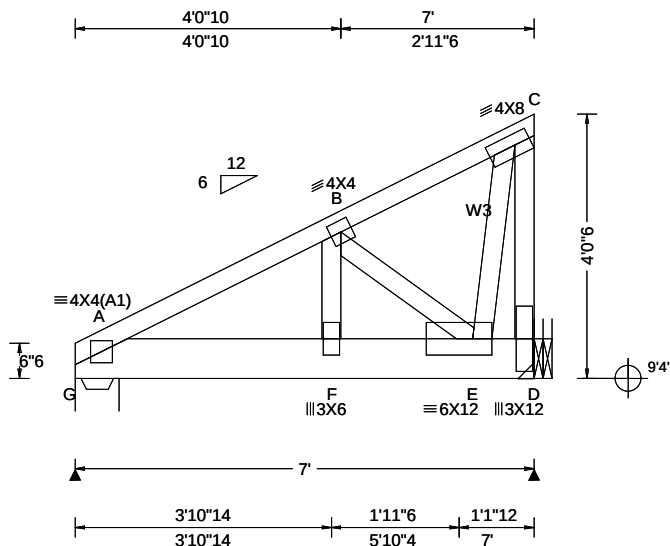


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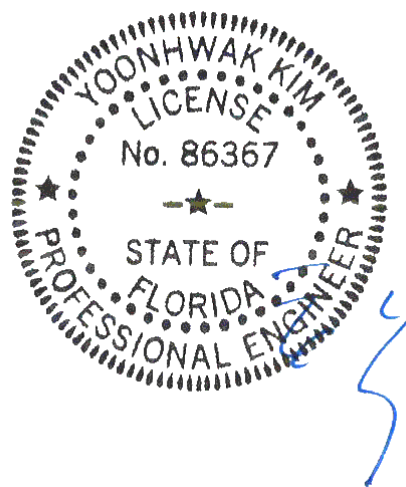
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SEQN: 837764 FROM: ARZ	MONO Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: M1G	Cust: R 8975 JRef:1YdO89750003 T38 DrwNo: 267.25.0922.25063 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.016 F 999 240 VERT(CL): 0.035 F 999 240 HORZ(LL): -0.004 C - - HORZ(TL): 0.008 C - - Creep Factor: 2.0 Max TC CSI: 0.160 Max BC CSI: 0.272 Max Web CSI: 0.578 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 889 /- /- /- /330 /- D 2947 /- /- /- /1164 /- Wind reactions based on MWFRS G Brg Wid = 8.0 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing G is a rigid surface. Bearing G requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2 N; Bot chord: 2x8 SP 2400f-2.0E; Webs: 2x4 SP #3; W3 2x4 SP #2 N;	Chords Tens.Comp. Chords Tens. Comp.
Special Loads -----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 74 plf at 0.00 to 74 plf at 7.00 BC: From 10 plf at 0.00 to 10 plf at 7.00 BC: 137 lb Conc. Load at 2.09 BC: 231 lb Conc. Load at 4.09 BC: 2883 lb Conc. Load at 6.06	A - F 1156 -429 F - E 1133 -423
Hangers / Ties (J) Hanger Support Required, by others	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp.
Wind Wind loads and reactions based on MWFRS. Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.	F - B 583 -153 E - C 2275 -881 B - E 278 -776 C - D 791 -2004

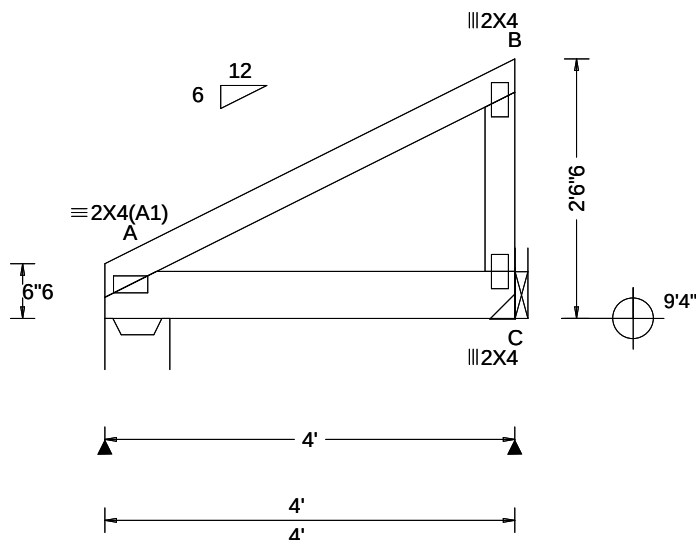


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SEQN: 837691 / FROM: MTV	MONO Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: M2G	Cust: R 8975 JRef:1YdO89750003 T52 / DrwNo: 267.25.0813.23481 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.009 A - - HORZ(TL): 0.020 A - - Creep Factor: 2.0 Max TC CSI: 0.534 Max BC CSI: 0.902 Max Web CSI: 0.151 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1134 /- /- /- /221 /- C 1110 /- /- /- /214 /- Wind reactions based on MWFRS A Brg Wid = 7.6 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing A is a rigid surface. Bearing A requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x6 SP SS;
Webs: 2x4 SP #3;

Special Loads

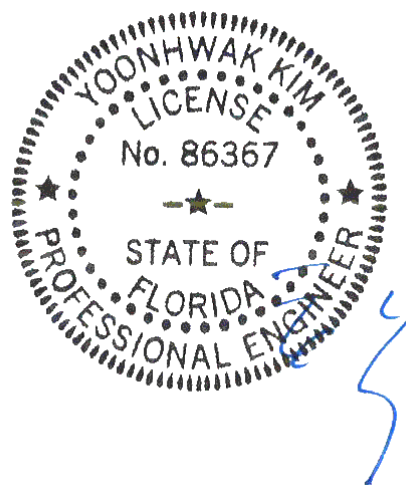
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 74 plf at 0.00 to 74 plf at 4.00
BC: From 20 plf at 0.00 to 20 plf at 4.00
BC: 1870 lb Conc. Load at 2.06

Hangers / Ties

(J) Hanger Support Required, by others

Wind

Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



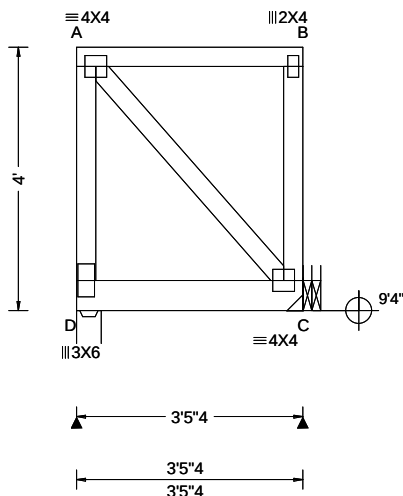
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North Building, 4th Floor
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SEQN: 837776 FROM: ARZ	FLAT Ply: 2 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: FG1	Cust: R 8975 JRef:1YdO89750003 T53 DrwNo: 267.25.0922.10650 KD / YK 09/24/2025
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: NA Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 A 999 240 VERT(CL): 0.002 A 999 240 HORZ(LL): -0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.551 Max BC CSI: 0.820 Max Web CSI: 0.109 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 1566 /- /- /- /637 /- C 1164 /- /- /- /445 /- Wind reactions based on MWFRS D Brg Wid = 4.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Bearing D requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x6 SP #2 N;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 5.75" o.c.
Bot Chord: 2 Rows @ 6.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 35 plf at 0.00 to 35 plf at 3.44
BC: From 10 plf at 0.00 to 10 plf at 3.44
TC: 801 lb Conc. Load at 0.65
TC: 49 lb Conc. Load at 3.33
BC: 1726 lb Conc. Load at 1.77

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

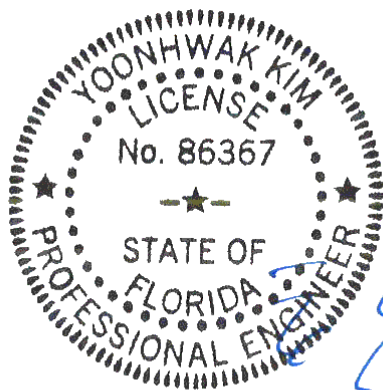
Wind

Wind loads and reactions based on MWFRS.
End verticals not exposed to wind pressure.

THIS TRUSS MUST BE INSTALLED AS SHOWN
AND NOT END FOR END.

Additional Notes

Truss must be installed as shown with top chord up.

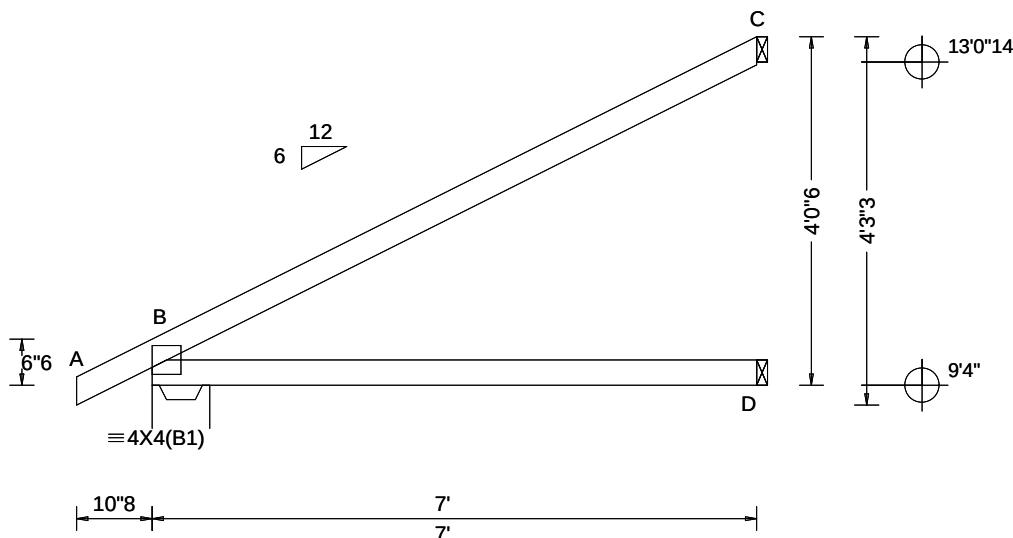


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 837604 / FROM: RAA	EJAC Ply: 1 Qty: 18	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: EJ7	Cust: R 8975 JRef:1YdO89750003 T32 / DrwNo: 267.25.0813.21993 KD / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.014 C - - HORZ(TL): 0.027 B - - Creep Factor: 2.0 Max TC CSI: 0.805 Max BC CSI: 0.588 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 401 /- /- /317 /99 /205 D 135 /- /- /78 /- /- C 237 /- /- /189 /182 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #2 N;

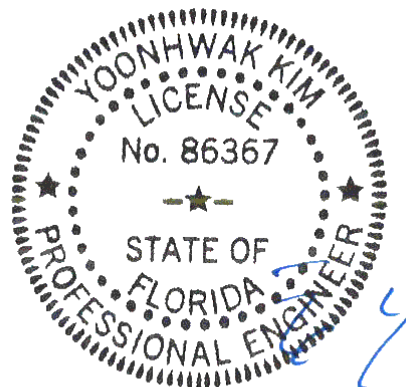
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (3) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

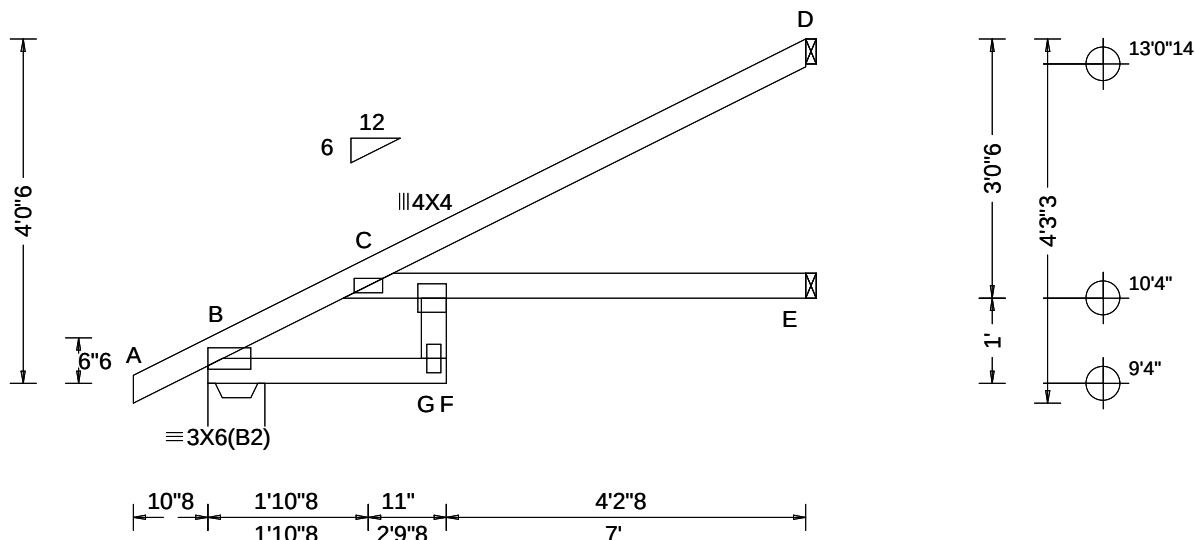


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Glenview, IL 60025

SEQN: 837528 / FROM: ARZ	EJAC Ply: 1 Qty: 6	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: EJ7T	Cust: R 8975 JRef:1YdO89750003 T19 / DrwNo: 267.25.0813.24092 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.138 F 601 240 VERT(CL): 0.315 F 263 240 HORZ(LL): 0.071 C - - HORZ(TL): 0.162 C - - Creep Factor: 2.0 Max TC CSI: 0.709 Max BC CSI: 0.364 Max Web CSI: 0.314 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 401 - / - /317 /99 /205 E 127 - / /0 /82 /0 - D 230 - / - /186 /168 - Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Wind

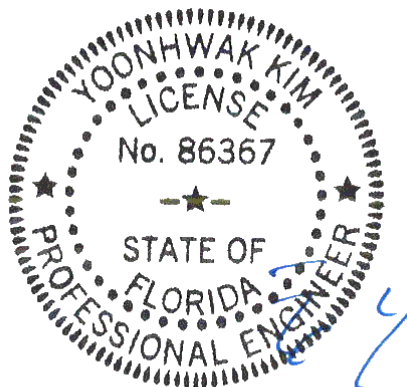
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (3) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

Note: Laterally brace bottom chord above filler at 20" O.C.Max. including a lateral brace at chord ends.

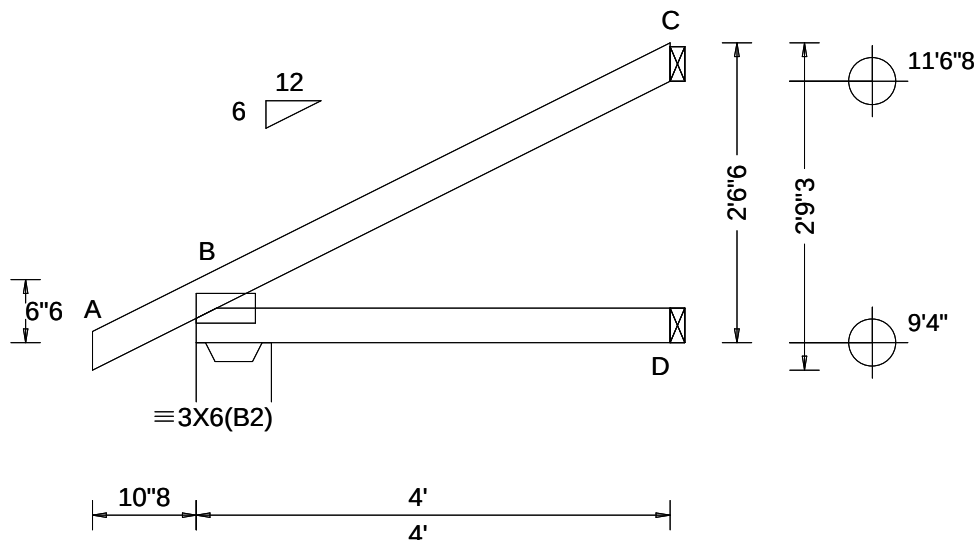


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Glenview, IL 60025

SEQN: 837687 / FROM: MTV	MONO Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: EJ4	Cust: R 8975 JRef:1YdO89750003 T26 / DrwNo: 267.25.0813.23983 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.002 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.436 Max BC CSI: 0.176 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 264 /- /- /218 /70 /125 D 77 /- /- /43 /- /- C 130 /- /- /103 /104 /- Wind reactions based on MWFRS B Brg Wid = 7.6 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

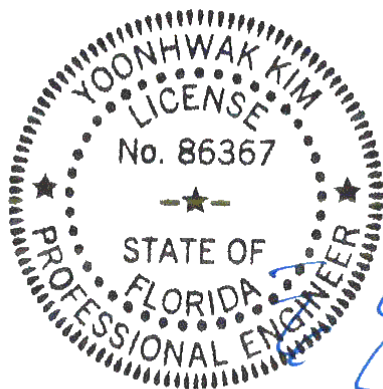
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

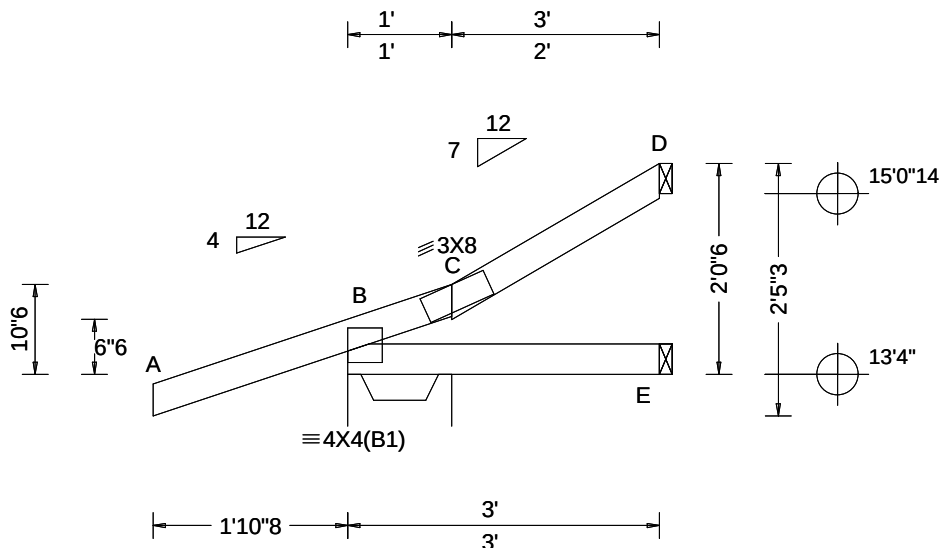


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Glenview, IL 60025

SEQN: 103925/ FROM: ARZ	EJAC Ply: 1 Qty: 3	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: EJ3	Cust: R 8975 JRef:1YdO89750003 T42 / DrwNo: 267.25.0813.22886 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.011 C 999 240 VERT(CL): 0.017 C 999 240 HORZ(LL): 0.006 C - - HORZ(TL): 0.008 C - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.103 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 327 /- /- /265 /139 /105 E 51 /- /- /38 /- /- D 68 /- /- /60 /62 /- Wind reactions based on MWFRS B Brg Wid = 12.0 Min Req = 2.0 E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

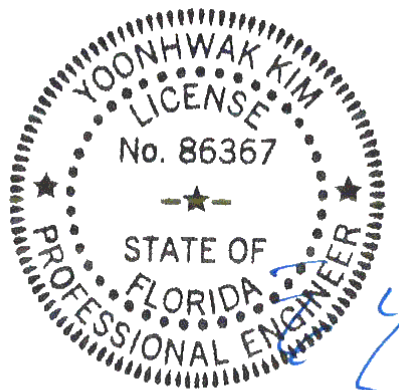
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

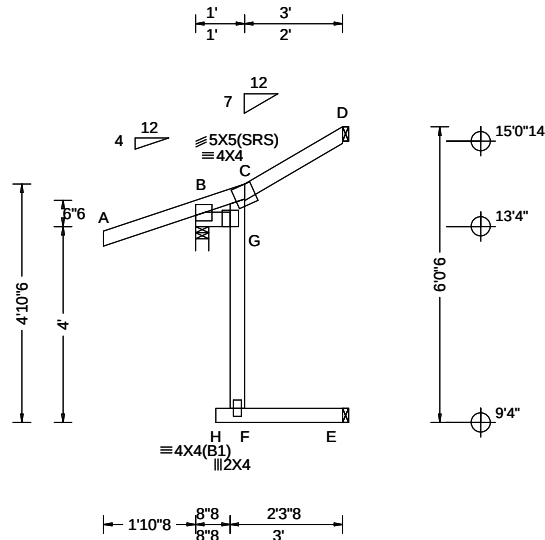


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SEQN: 103926/ FROM: ARZ	EJAC Ply: 1 Qty: 3	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: EJ3A	Cust: R 8975 JRef:1YdO89750003 T37 / DrwNo: 267.25.0813.22415 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.024 H 999 240 VERT(CL): 0.040 H 859 240 HORZ(LL): -0.090 H - - HORZ(TL): 0.116 H - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.070 Max Web CSI: 0.035 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 327 /- /- /270 /136 /105 E 37 /- /- /17 /- /- D 70 /- /- /83 /56 /- Wind reactions based on MWFRS B Brg Wid = 3.2 Min Req = 2.0 E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;
Webs: 2x4 SP #3;

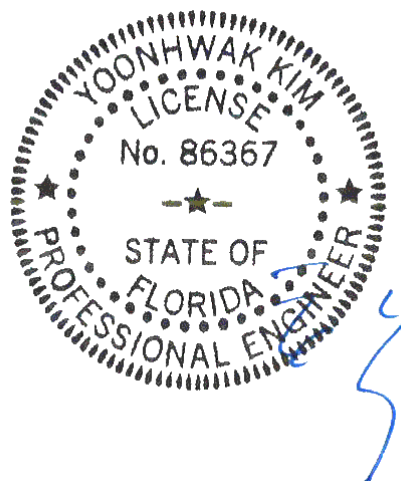
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

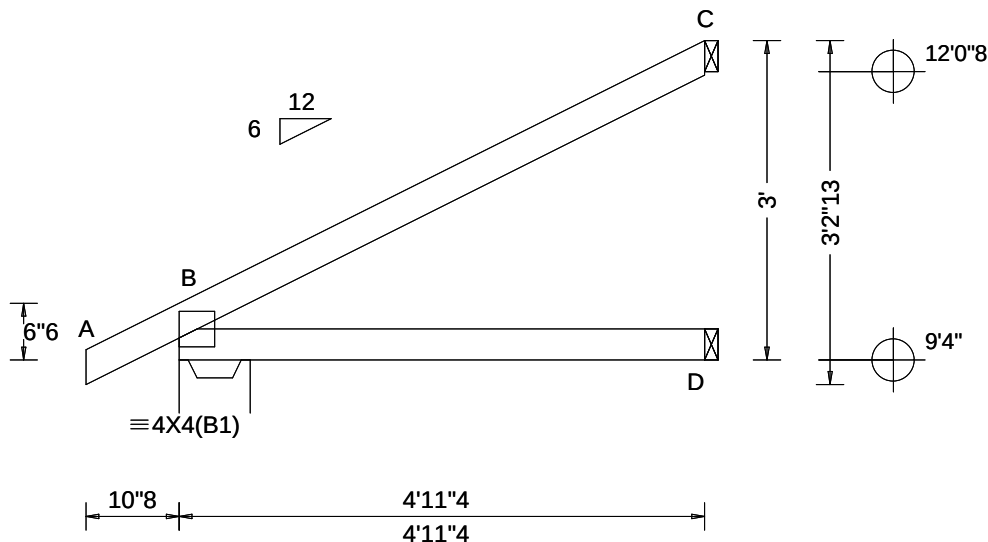


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155 Harlem Ave
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Glenview, IL 60025

SEQN: 837610/ FROM: MTV	JACK Ply: 1 Qty: 8	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ5	Cust: R 8975 JRef:1YdO89750003 T29 / DrwNo: 267.25.0813.22055 KD / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.006 C - - HORZ(TL): 0.010 B - - Creep Factor: 2.0 Max TC CSI: 0.654 Max BC CSI: 0.282 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 306 /- /- /249 /79 /150 D 96 /- /- /55 /- /- C 163 /- /- /130 /128 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

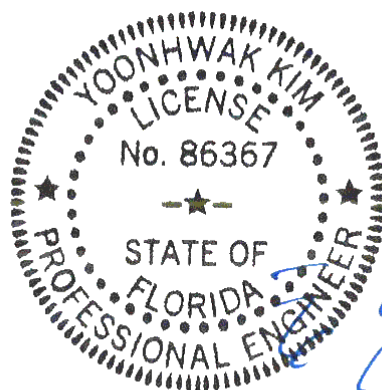
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

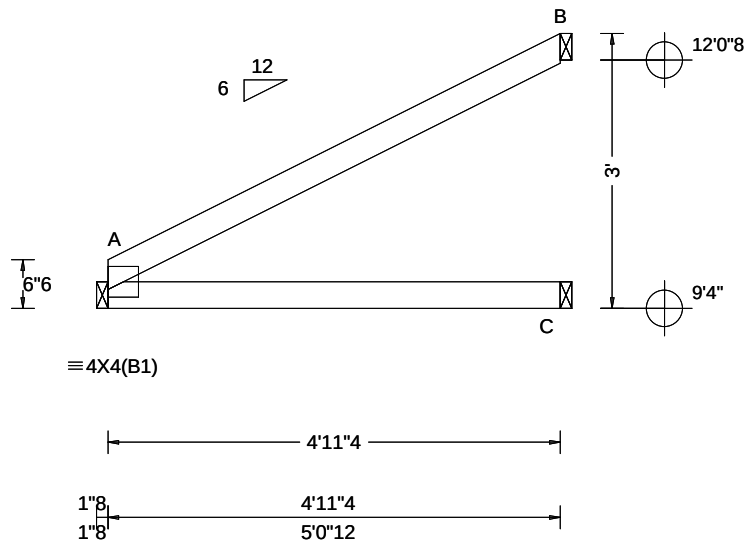


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Glenview, IL 60025

SEQN: 103928/ FROM: ARZ	JACK Ply: 1 Qty: 1	Job Number: 402471 ,7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ5A	Cust: R 8975 JRef:1YdO89750003 T14 / DrwNo: 267.25.0813.23027 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.006 A - - HORZ(TL): 0.013 A - - Creep Factor: 2.0 Max TC CSI: 0.663 Max BC CSI: 0.298 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 231 /- /- /166 /45 /131 C 98 /- /- /60 /- /- B 168 /- /- /135 /128 /- Wind reactions based on MWFRS A Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

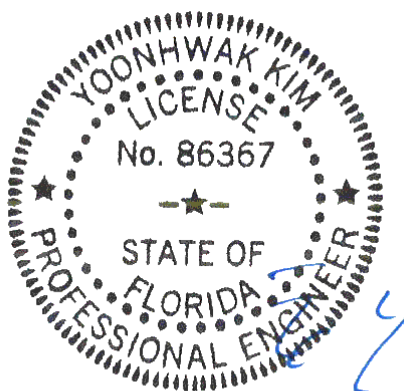
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (3) 0.131"x3.0", min. toe-nails at bottom chord.

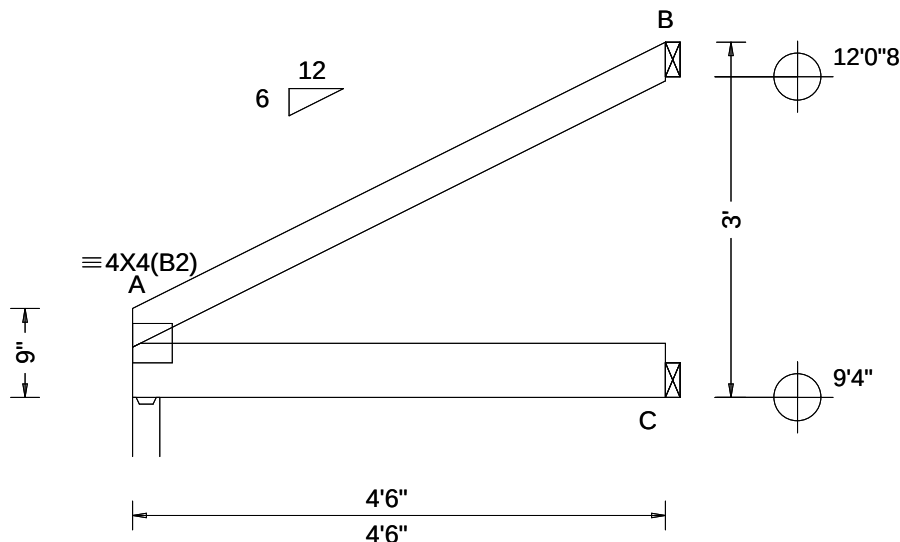


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Glenview, IL 60025

SEQN: 103929/ FROM: ARZ	JACK Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ5B	Cust: R 8975 JRef: 1YdO89750003 T9 / DrwNo: 267.25.0813.22416 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.006 B - - HORZ(TL): 0.008 A - - Creep Factor: 2.0 Max TC CSI: 0.575 Max BC CSI: 0.112 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 212 /- /- /152 /40 /119 C 94 /- /- /56 /- /- B 151 /- /- /121 /120 /- Wind reactions based on MWFRS A Brg Wid = 2.8 Min Req = 2.0 C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Bearing A is a rigid surface. Bearing A requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x6 SP #2 N;

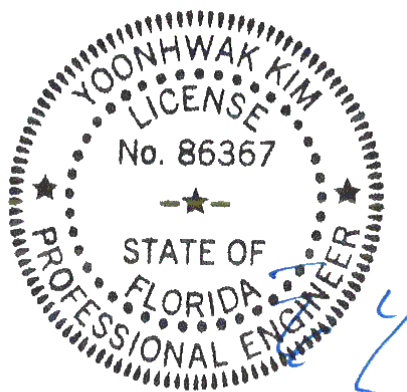
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

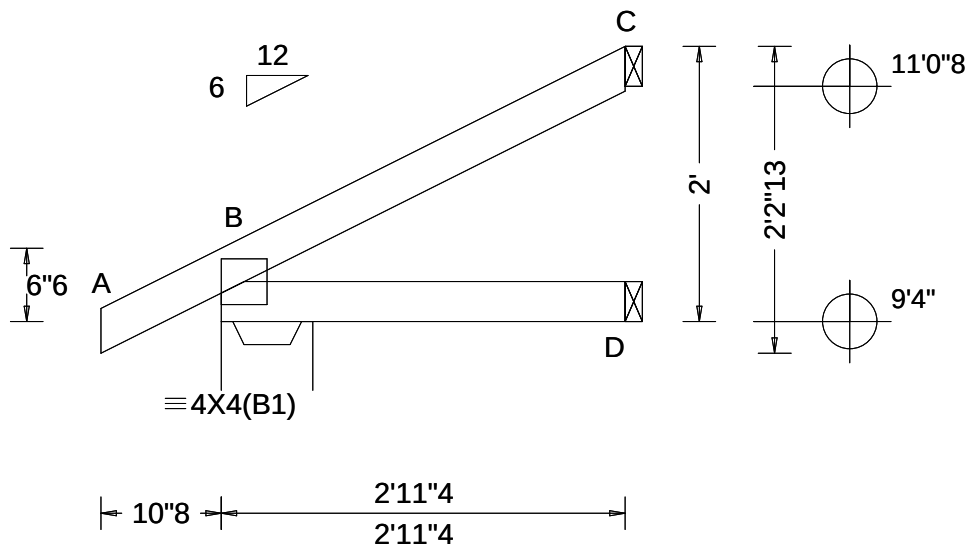


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155 Harlem Ave
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Glenview, IL 60025

SEQN: 837608/ FROM: MTV	JACK Ply: 1 Qty: 10	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ3	Cust: R 8975 JRef:1YdO89750003 T30 / DrwNo: 267.25.0813.22024 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.332 Max BC CSI: 0.086 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 218 /- /- /185 /60 /96 D 55 /- /- /29 /- /- C 91 /- /- /71 /75 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

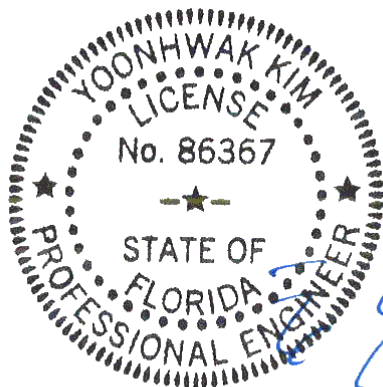
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

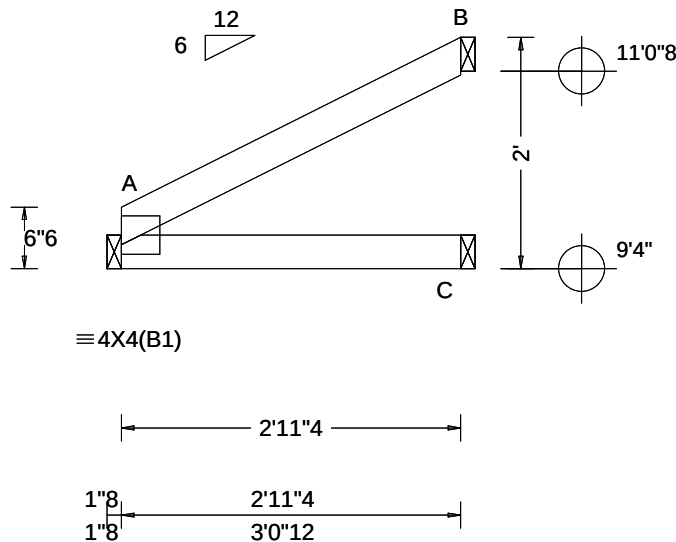


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 103931/ FROM: ARZ	JACK Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ3A	Cust: R 8975 JRef:1YdO89750003 T15 / DrwNo: 267.25.0813.22698 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.002 A - - HORZ(TL): 0.003 A - - Creep Factor: 2.0 Max TC CSI: 0.365 Max BC CSI: 0.145 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 137 /- /- /98 /24 /77 C 58 /- /- /35 /- /- B 101 /- /- /81 /78 /- Wind reactions based on MWFRS A Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

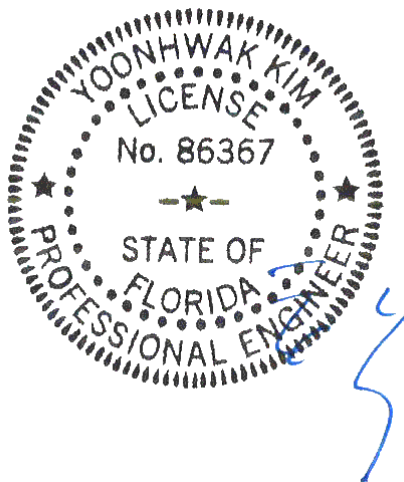
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

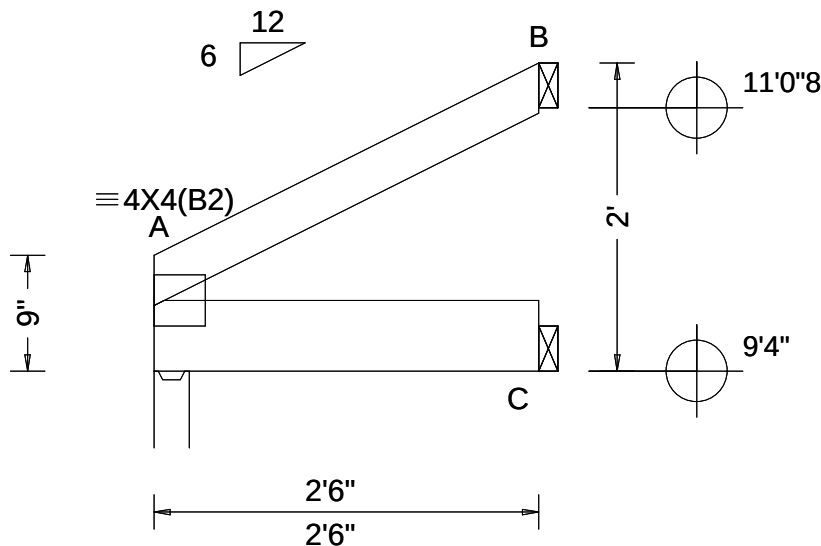


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Glenview, IL 60025

SEQN: 103932/ FROM: ARZ	JACK Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ3B	Cust: R 8975 JRef:1YdO89750003 T20 / DrwNo: 267.25.0813.22086 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.278 Max BC CSI: 0.037 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 118 /- /- /84 /19 /65 C 51 /- /- /29 /- /- B 86 /- /- /69 /70 /- Wind reactions based on MWFRS A Brg Wid = 2.8 Min Req = 2.0 C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Bearing A is a rigid surface. Bearing A requires a seat plate. Members not listed have forces less than 375#

Lumber

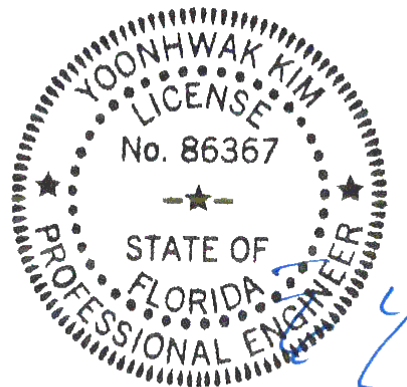
Top chord: 2x4 SP #2 N;
Bot chord: 2x6 SP #2 N;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

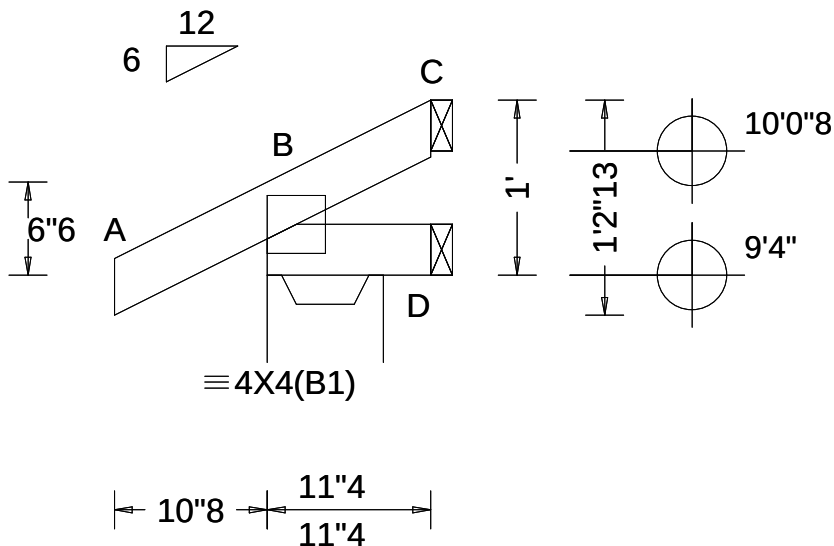


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Glenview, IL 60025

SEQN: 837606/ FROM: MTV	JACK Ply: 1 Qty: 11	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ1	Cust: R 8975 JRef:1YdO89750003 T31 / DrwNo: 267.25.0813.22056 KD / YK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.122 Max BC CSI: 0.013 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 152 /- /- /147 /54 /42 D 14 /- /- /7 /1 /- C - /-2 /- /20 /21 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

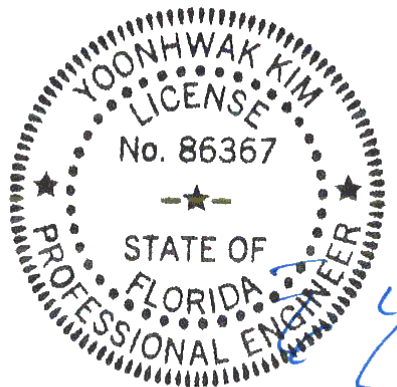
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

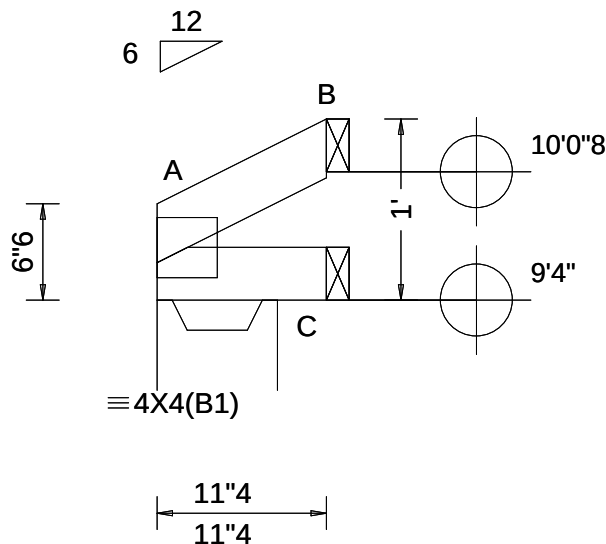


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155 Harlem Ave
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Glenview, IL 60025

SEQN: 103934/ FROM: ARZ	JACK Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ1A	Cust: R 8975 JRef:1YdO89750003 T16 / DrwNo: 267.25.0813.22400 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.036 Max BC CSI: 0.009 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 48 /- /- /33 /4 /23 C 17 /- /- /10 /- /- B 30 /- /- /25 /27 /- Wind reactions based on MWFRS A Brg Wid = 8.0 Min Req = 2.0 C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Bearing A is a rigid surface. Bearing A requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

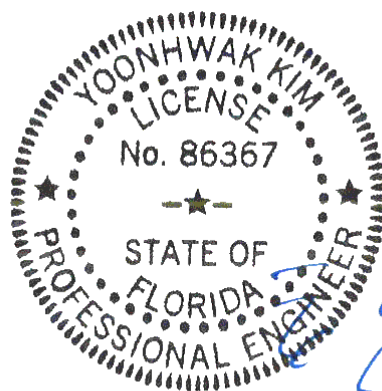
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

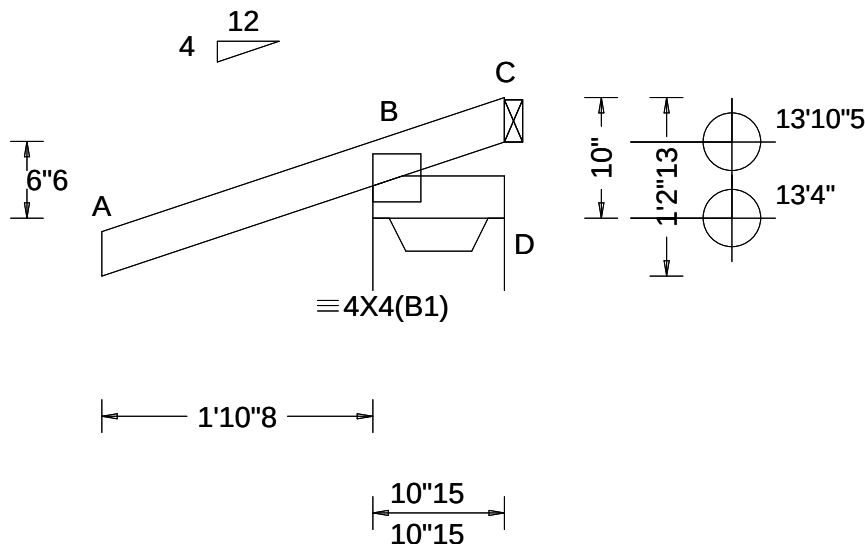


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Glenview, IL 60025

SEQN: 103935/ FROM: ARZ	CJAC	Ply: 1 Qty: 3	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ1E	Cust: R 8975 JRef:1YdO89750003 T34 / DrwNo: 267.25.0813.22352 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.642 Max BC CSI: 0.086 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 332 /- /- /298 /207 /49 C - /-114 /- /104 /118 /- Wind reactions based on MWFRS D Brg Wid = 10.9 Min Req = 2.0 C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

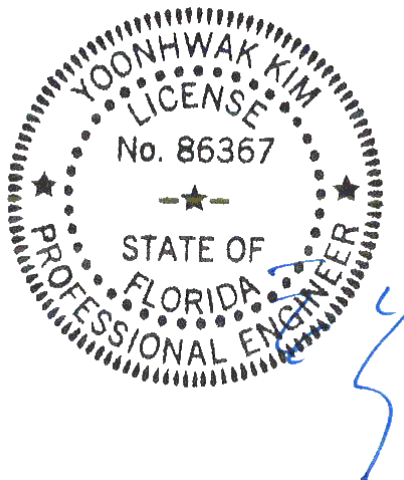
Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.

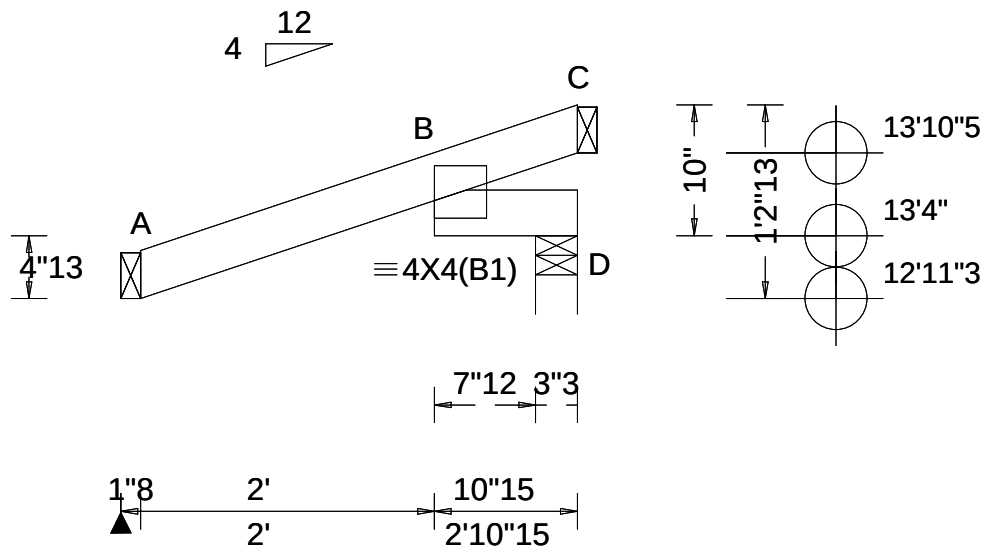


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SEQN: 103936/ FROM: ARZ	CJAC Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ1F	Cust: R 8975 JRef:1YdO89750003 T43 / DrwNo: 267.25.0813.22401 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.008 B 999 240 VERT(CL): 0.016 B 999 240 HORZ(LL): -0.005 D - - HORZ(TL): 0.009 D - - Creep Factor: 2.0 Max TC CSI: 0.425 Max BC CSI: 0.010 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 103 /- /- /56 /50 /49 D 20 /- /- /10 /- /- C 105 /- /- /61 /68 /- Wind reactions based on MWFRS A Brg Wid = 1.5 Min Req = - D Brg Wid = 3.2 Min Req = 1.5 (Truss) C Brg Wid = 1.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

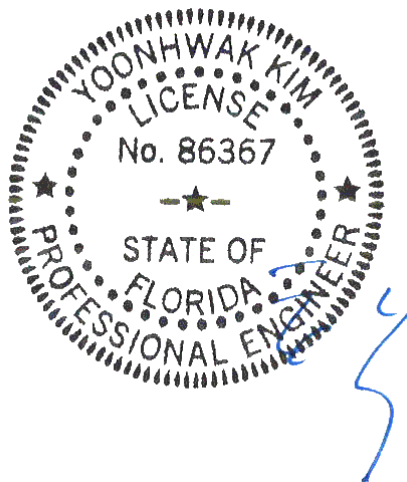
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.

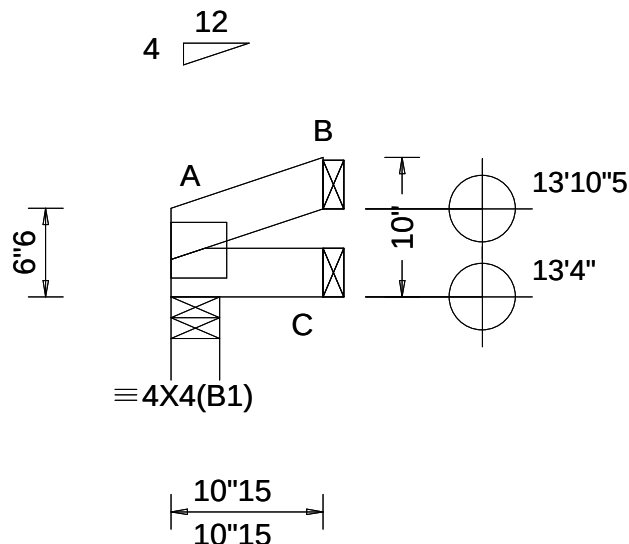


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Glenview, IL 60025

SEQN: 103937/ FROM: ARZ	CJAC Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ1H	Cust: R 8975 JRef:1YdO89750003 T13 / DrwNo: 267.25.0813.22997 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 A - - HORZ(TL): 0.000 A - - Creep Factor: 2.0 Max TC CSI: 0.031 Max BC CSI: 0.008 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 47 /- /- /29 /10 /16 C 16 /- /- /9 /- /- B 28 /- /- /16 /22 /- Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 2.0 C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

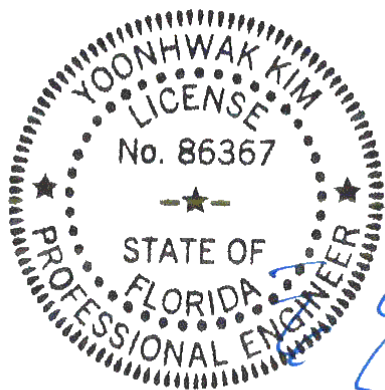
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

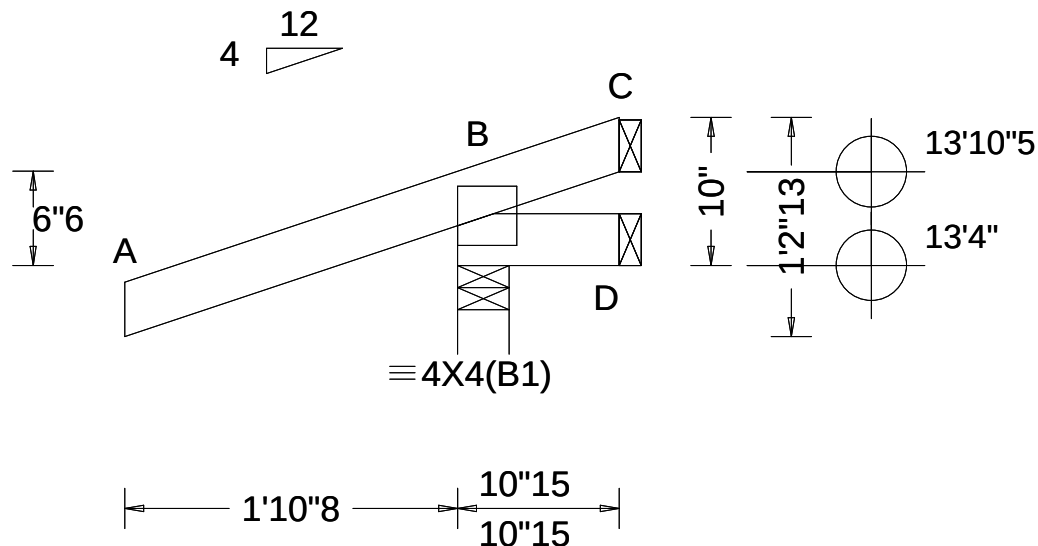


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North Building, 4th Floor
Glenview, IL 60025

SEQN: 103938/ FROM: ARZ	CJAC Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ1C	Cust: R 8975 JRef:1YdO89750003 T36 / DrwNo: 267.25.0813.23184 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.642 Max BC CSI: 0.090 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 354 /- /- /320 /234 /49 D 2 /-22 /- /26 /21 /- C - /-114 /- /105 /119 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.0 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

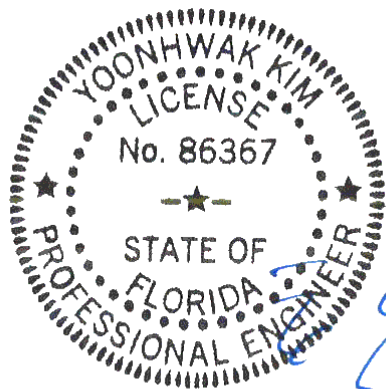
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

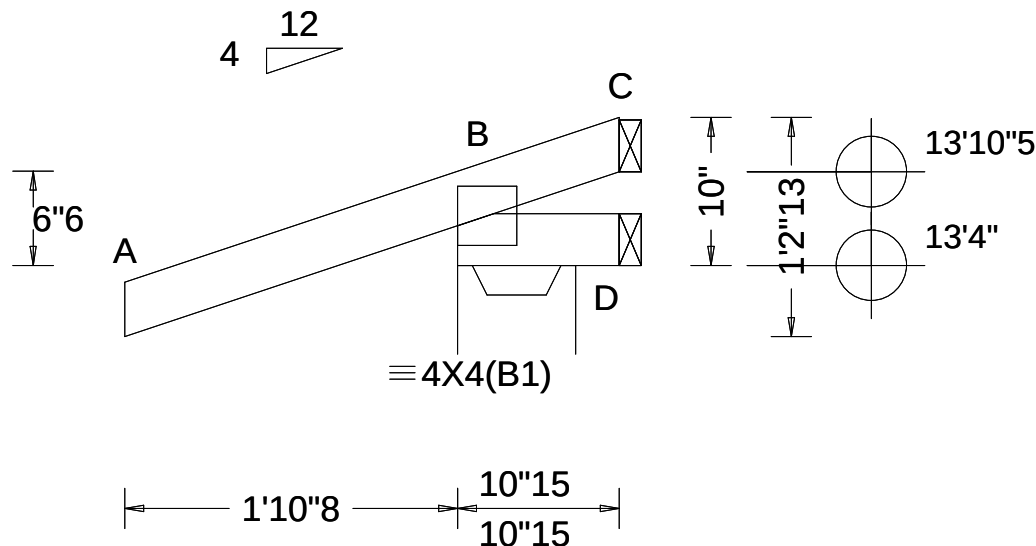


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Glenview, IL 60025

SEQN: 103939/ FROM: ARZ	CJAC Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: CJ1D	Cust: R 8975 JRef:1YdO89750003 T17 / DrwNo: 267.25.0813.23089 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.073 Max Web CSI: 0.000 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 354 /- /- /320 /234 /49 D 2 /-22 /- /26 /21 /- C - /-114 /- /105 /119 /- Wind reactions based on MWFRS B Brg Wid = 8.0 Min Req = 2.0 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;

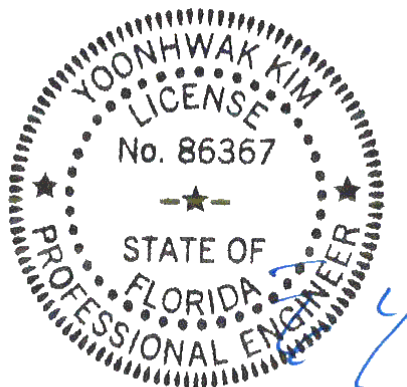
Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

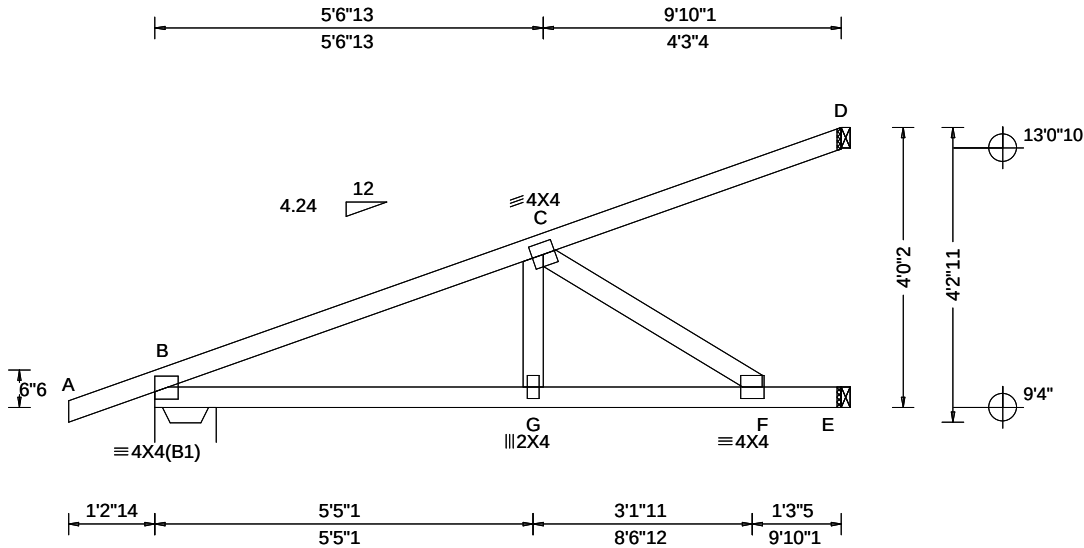


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SEQN: 837754/ FROM: ARZ	HIP_	Ply: 1 Qty: 5	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: HJ7	Cust: R 8975 JRef:1YdO89750003 T33 / DrwNo: 267.25.0813.22604 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.067 F 999 240 VERT(CL): 0.156 F 749 240 HORZ(LL): 0.015 C - - HORZ(TL): 0.036 C - - Creep Factor: 2.0 Max TC CSI: 0.706 Max BC CSI: 0.782 Max Web CSI: 0.241 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL B 394 /- /- /- /150 /- E 432 /- /0 /- /97 /0 D 285 /- /- /- /166 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 10.6 Min Req = 2.0 E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

Top chord: 2x4 SP #2 N;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

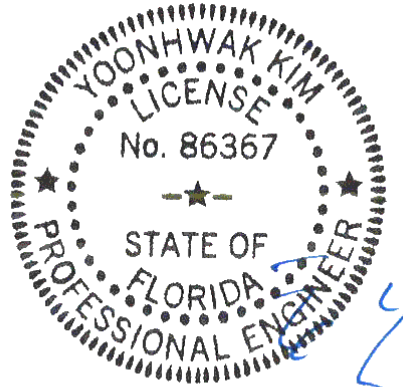
Loading

Hipjack supports 6-11-8 setback jacks with no webs.

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Provide (3) 0.131"x3.0", min. toe-nails at top chord.
Provide (3) 0.162"x3.5" 16d Common nails, toe nail at bot chord



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Florida Certificate of Product Approval #FL 1999

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Structural diagram showing a beam-column joint. The beam is labeled $\equiv 3X6(B2)$. The joint is labeled $\equiv 3X6(B2)$. The beam length is $5'7''2$. The column height is $2'6''2$. The joint height is $9'4''$. The column width is $11'6''10$. The beam width is $6''6$. A slope of 4.24 is indicated for the column.

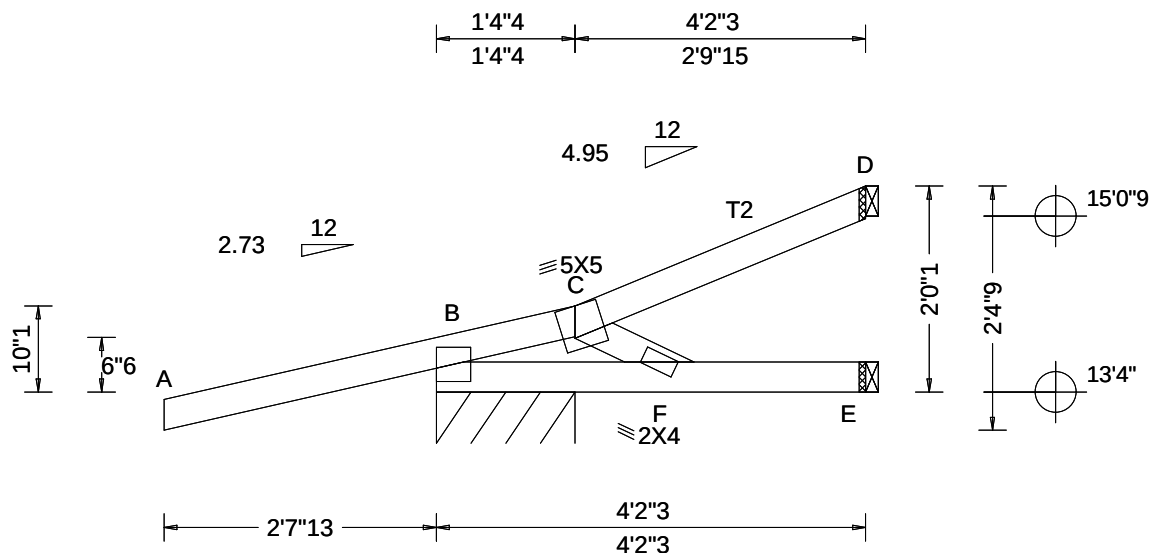
Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.



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SEQN: 103945/ FROM: ARZ	HIP_ Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: HJ3B	Cust: R 8975 JRef: 1YdO89750003 T41 / DrwNo: 267.25.0813.22322 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 F 999 240 VERT(CL): -0.004 F 999 240 HORZ(LL): -0.001 B - - HORZ(TL): 0.003 B - - Creep Factor: 2.0 Max TC CSI: 0.349 Max BC CSI: 0.075 Max Web CSI: 0.081 VIEW Ver: 23.02.01A.1204.18	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B* 216 /- /- /- /104 /- E 2 /- /- /16 /- /- D 67 /- /- /- /42 /- C /-105 Wind reactions based on MWFRS B Brg Wid = 16.2 Min Req = - E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP 2400F-2.0E; T2 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;
Webs: 2x4 SP #3;

Plating Notes

All plates are 4X4(B1) except as noted.

Loading

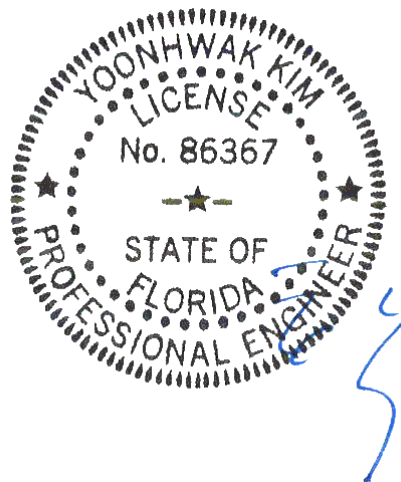
Hipjack supports 2-11-8 setback jacks with no webs.

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.



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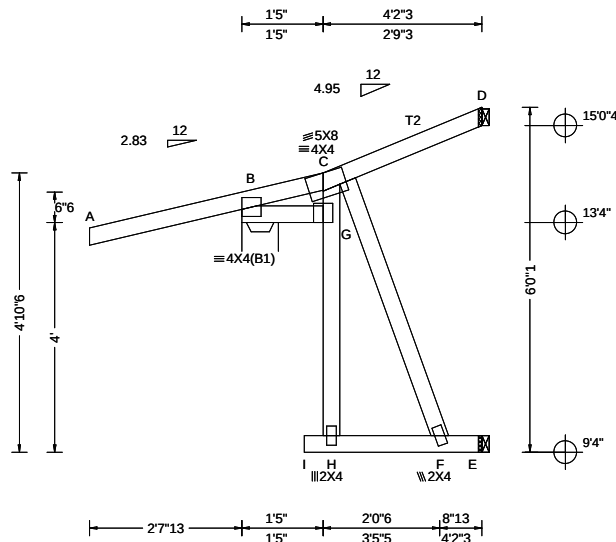
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SEQN: 103941/	HIP_	Ply: 1	Job Number: 402471	Cust: R 8975 JRef:1YdO89750003 T45 /
FROM: ARZ		Qty: 1	,7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A	DrwNo: 267.25.0813.22057
			Truss Label: HJ3C	/ WHK 09/24/2025

Lumber



SEQN: 103946/ FROM: ARZ	COMN Ply: 1 Qty: 1	Job Number: 402471 .7F5 ,BRAA ,15;16;21;25 ,RB01 / BRADEN/A Truss Label: HJ3	Cust: R 8975 JRef:1YdO89750003 T11 / DrwNo: 267.25.0813.22745 / WHK 09/24/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.012 I 999 240 VERT(CL): -0.025 I 999 240 HORZ(LL): -0.021 F - - HORZ(TL): 0.043 F - - Creep Factor: 2.0 Max TC CSI: 0.349 Max BC CSI: 0.075 Max Web CSI: 0.348 VIEW Ver: 23.02.01A.1204.18	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 325 /- /- /- /164 /- E - /-12 /- /29 /- /- D 49 /- /- /- /30 /- Wind reactions based on MWFRS B Brg Wid = 7.6 Min Req = 2.0 E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP 2400F-2.0E; T2 2x4 SP #2 N;
Bot chord: 2x4 SP #2 N;
Webs: 2x4 SP #3;

Loading

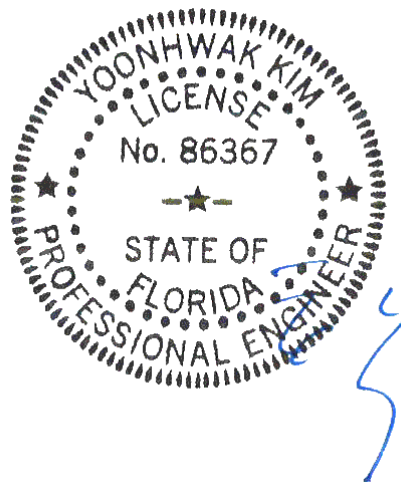
Hipjack supports 2-11-8 setback jacks with no webs.

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.



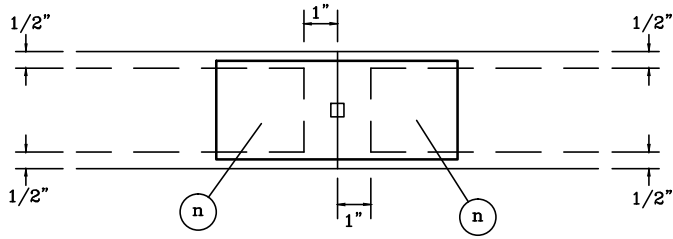
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TRULOX INFORMATION DETAIL

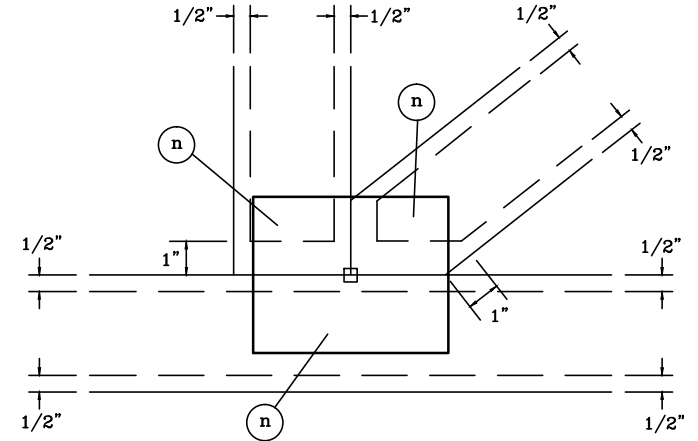
TYPICAL OFF PANEL SPLICE



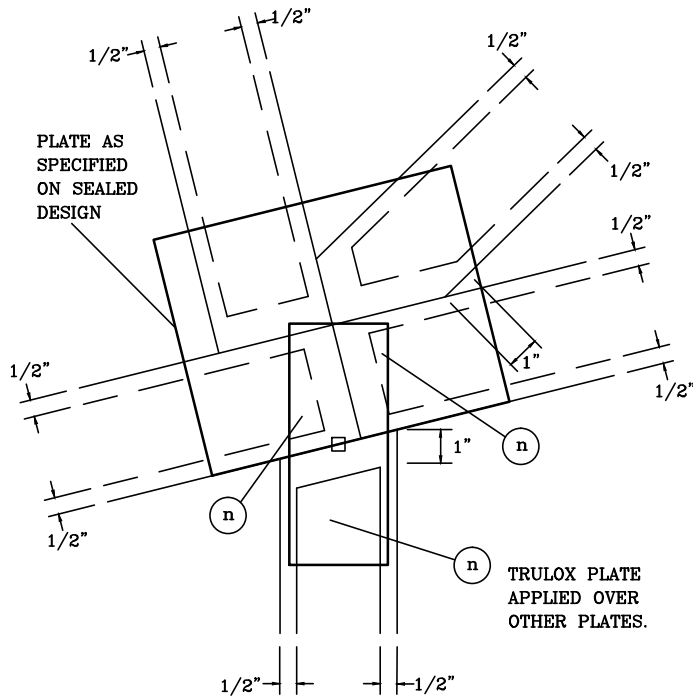
DO NOT APPLY NAILS WITHIN 1/2" OF LUMBER EDGES OR 1" OF LUMBER ENDS ON EACH FACE, AS SHOWN BY DASHED LINES.

NAILS MUST NOT SPLIT LUMBER.

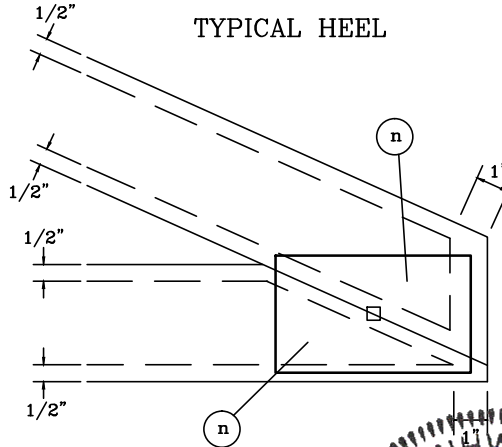
TYPICAL PANEL POINT WITHOUT SPLICE



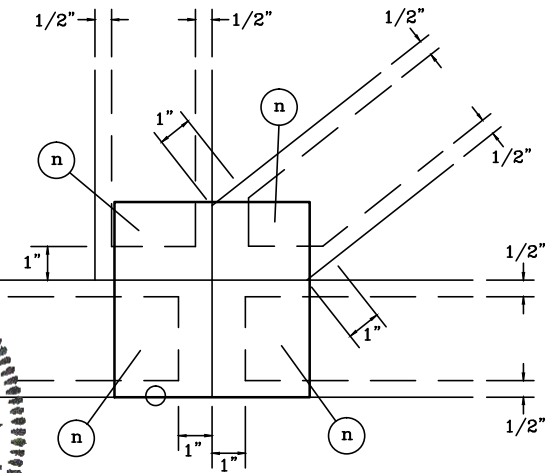
TYPICAL FILLER



TYPICAL HEEL



TYPICAL PANEL POINT SPLICE



NOTES:

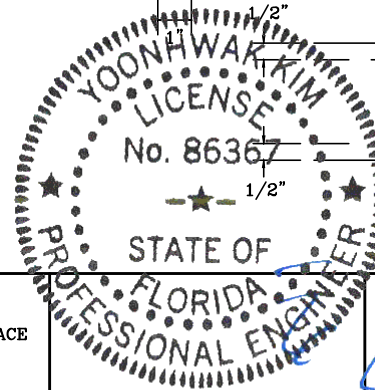
(n) IS THE REQUIRED NUMBER OF 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY AS SPECIFIED ON THE SEALED DESIGN REFERENCING THIS DETAIL.

○ LOCATES PLATE CORNER OR FLUSH EDGE.

□ LOCATES PLATE CENTER.



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TRULOX PLATING

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TL

PAGE 1 OF 1

DATE 10/01/14

Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
			#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
			Stud	4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Standard	#1	4' 6"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"
			#2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
			#3	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
	SP DFL	Stud	#1	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
			#2	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"
			Standard	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"
		#1 / #2	#1	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 8"	8' 1"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	8' 1"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	Standard	#1	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	#1	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 9"	7' 4"	7' 9"	9' 9"	10' 3"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	Stud	#1	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 1"	13' 6"	14' 0"	14' 0"	14' 0"
			Standard	4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 1"	13' 6"	14' 0"	14' 0"	14' 0"
	SP DFL	#1 / #2	#1	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	#1	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	3X4

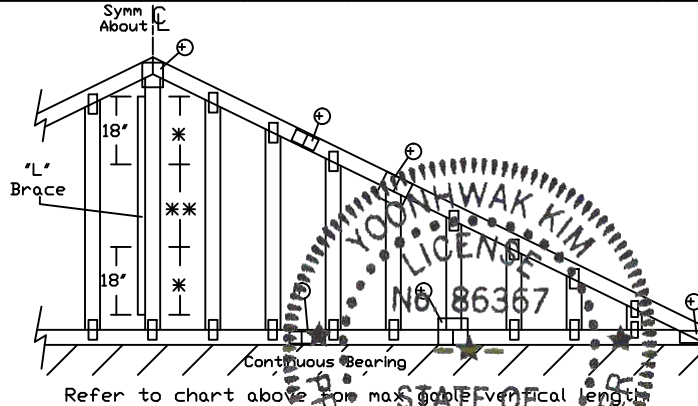
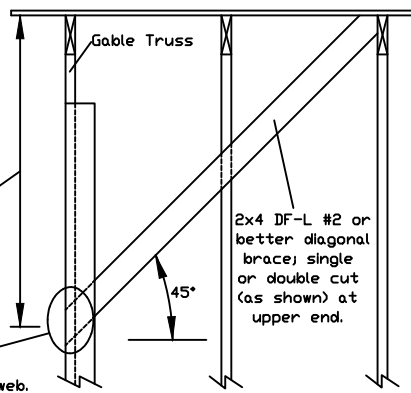
+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



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 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.

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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



155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025
 CO-140-278, Yoonhwak Kim, FL PE #06367
 Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

REF ASCE7-10-GAB14015

DATE 10/01/14

DRWG A14015ENC101014

Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
			#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
			Stud	4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Standard	#1	4' 6"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"
			#2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
			#3	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
	SP DFL	Stud	#1	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
			#2	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	10' 2"	10' 7"	11' 10"	14' 0"	14' 0"	14' 0"
			Standard	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	10' 2"	10' 7"	11' 10"	14' 0"	14' 0"	14' 0"
		#1 / #2	#1	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 8"	8' 1"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	8' 1"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	Standard	#1	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	12' 1"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	12' 1"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	12' 1"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	#1	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 9"	7' 4"	7' 9"	9' 9"	10' 3"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	Stud	#1	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 1"	13' 6"	14' 0"	14' 0"	14' 0"
			Standard	4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 1"	13' 6"	14' 0"	14' 0"	14' 0"
	SP DFL	#1 / #2	#1	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	#1	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	3X4

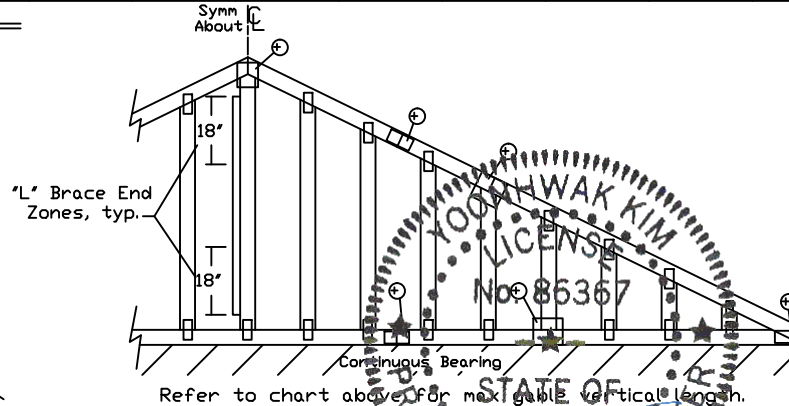
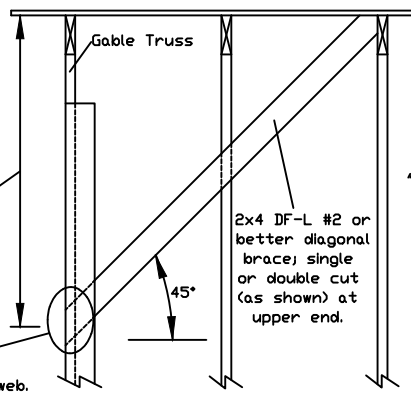
+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max gable vertical length.

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155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025
 COA#0-278, Yoonhwak Kim, EITP #86367

Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

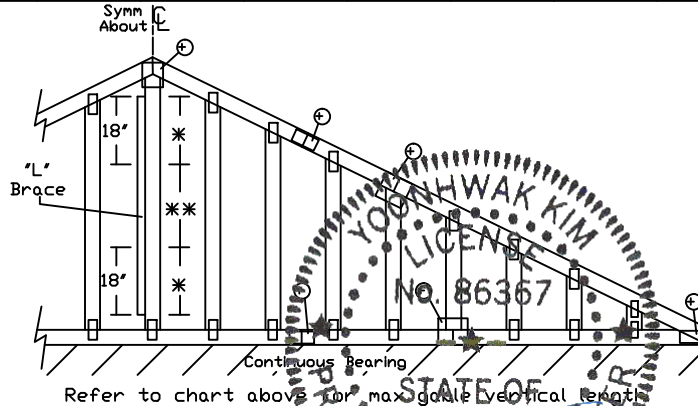
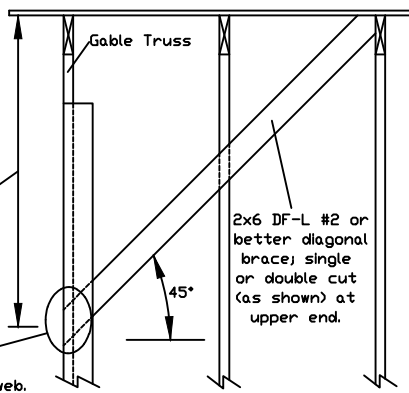
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **		
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
	24" O.C.	SPF	HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
#3				3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
Stud				3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
Standard				3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"	
DFL			#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"	
			#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"	
			#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"	
			Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"	
Standard		3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"	14' 0"		
		SP	HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
Standard	4' 5"			6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"		
DFL	#1		4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"		
	#2		4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"		
	#3		4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"		
	Stud		4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"		
Standard	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15'	14' 0"	14' 0"	14' 0"			
	16" O.C.	SPF	HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
Standard				4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
DFL			#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	
			#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
Standard		4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		SP	HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
Standard	4' 10"			7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"		
DFL	#1		5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"		
	#2		5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"		
	#3		5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"		
	Stud		5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"		
Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4
+ Refer to common truss design for peak, splice, and heel plates.	

Refer to the Building Designer for conditions not addressed by this detail.

ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

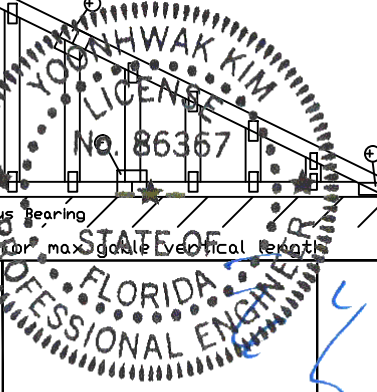
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09/24/2025
COA#0-278, Yoonhwak Kim, FL, PP:#86367
Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

REF ASCE7-10-GAB14030
DATE 10/01/14
DRWG A14030ENC101014

Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

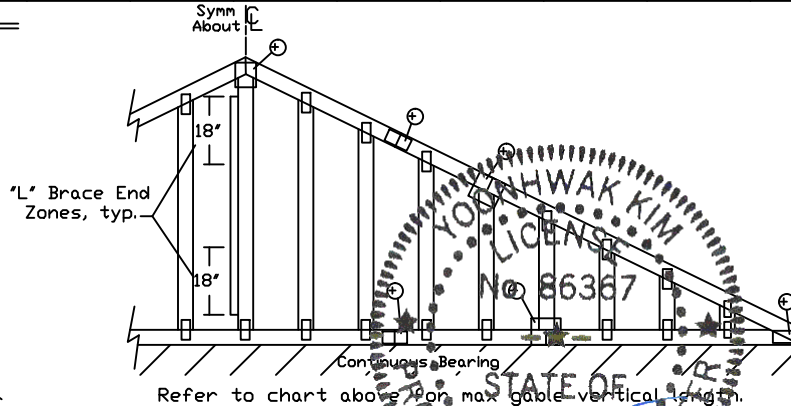
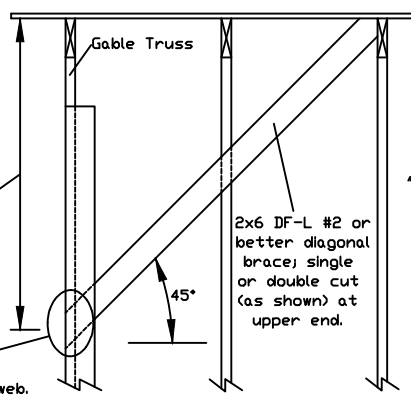
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
			#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
			Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	#1	4' 2"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
			#2	4' 1"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
			Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
	SP	DFL	#1	4' 2"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
			#2	4' 1"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
			Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Standard	#1	4' 2"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
			#2	4' 1"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
			Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	#1	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
			#2	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
			#2	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
			Stud	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	#1	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3	Stud	#3	Stud
	Standard		Standard

Group B:	
Hem-Fir	
#1 & Btr	#1
#1	
Douglas Fir-Larch	Southern Pine***
#1	#1
#2	#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

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



155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025

COA# 0-278, Yoonhwak Kim, F.P.E. #83366

Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX #8 BRACING 24.0"

REF ASCE7-16-GAB14030

DATE 01/26/2018

DRWG A14030ENC160118

Gable Stud Reinforcement Detail

ASCE 7-10: 160 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

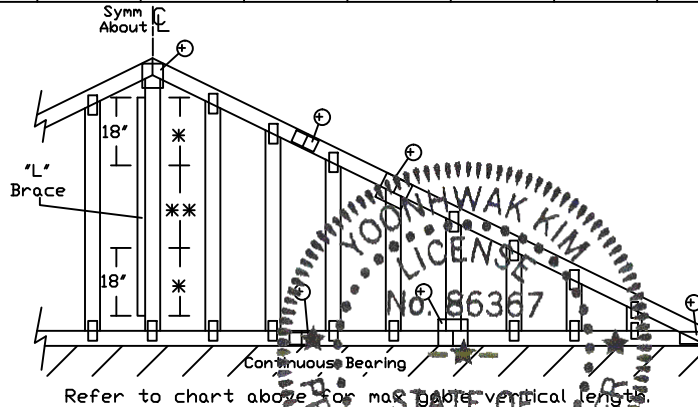
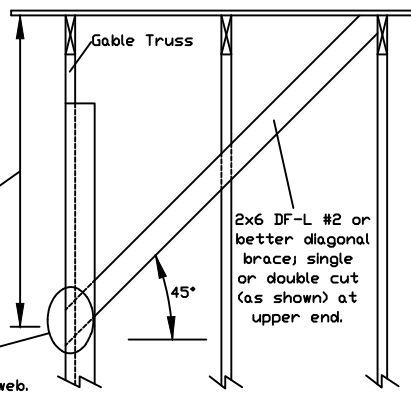
Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"
			#3	3' 8"	5' 9"	6' 2"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
			Stud	3' 8"	5' 9"	6' 1"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
		Standard	#1	3' 8"	4' 11"	5' 3"	6' 7"	7' 1"	8' 11"	9' 6"	10' 4"	11' 1"	14' 0"	14' 0"
			#2	4' 0"	6' 8"	6' 11"	7' 10"	8' 2"	9' 4"	9' 8"	12' 4"	12' 9"	14' 0"	14' 0"
			#3	3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"
	SP	DFL	#1	3' 9"	5' 3"	5' 7"	6' 11"	7' 5"	9' 2"	9' 7"	10' 11"	11' 8"	14' 0"	14' 0"
			Stud	3' 9"	5' 3"	5' 7"	6' 11"	7' 5"	9' 2"	9' 7"	10' 11"	11' 8"	14' 0"	14' 0"
			Standard	3' 6"	4' 7"	4' 11"	6' 2"	6' 7"	8' 4"	8' 11"	9' 8"	10' 4"	13' 1"	14' 0"
		DFL	#1 / #2	4' 5"	7' 6"	7' 9"	8' 10"	9' 3"	10' 7"	11' 0"	13' 11"	14' 0"	14' 0"	14' 0"
			#3	4' 2"	7' 1"	7' 9"	8' 9"	9' 1"	10' 5"	10' 10"	13' 9"	14' 0"	14' 0"	14' 0"
			Stud	4' 2"	7' 1"	7' 6"	8' 9"	9' 1"	10' 5"	10' 10"	13' 9"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	#1	4' 2"	6' 1"	6' 5"	8' 1"	8' 8"	10' 5"	10' 10"	12' 8"	13' 7"	14' 0"	14' 0"
			#3	4' 7"	7' 7"	7' 11"	9' 0"	9' 4"	10' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 2"	6' 1"	6' 5"	8' 1"	8' 8"	10' 5"	10' 10"	12' 8"	13' 7"	14' 0"	14' 0"
		Standard	#1	4' 7"	7' 7"	7' 11"	9' 0"	9' 4"	10' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 5"	7' 6"	7' 9"	8' 10"	9' 3"	10' 7"	11' 0"	13' 11"	14' 0"	14' 0"	14' 0"
			#3	4' 4"	6' 5"	6' 10"	8' 6"	9' 1"	10' 6"	10' 11"	13' 4"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1 / #2	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
			#3	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
			Stud	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
		Standard	#1	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
			#2	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
			#3	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	#1	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	10' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	5' 1"	8' 5"	8' 8"	9' 11"	10' 3"	11' 9"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 600# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3	Stud	#3	Stud
	Standard		Standard

Group B:			
Hem-Fir			
#1 & Btr	#1		
Douglas Fir-Larch		Southern Pine***	
#1	#2	#1	#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 75 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X3
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4
+ Refer to common truss design for peak, splice, and heel plates.	

Refer to the Building Designer for conditions not addressed by this detail.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! ***IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

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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



155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025 COA#0-270, Yoonhwak Kim, FL PE #86367

Florida Certificate of Product Approval #FL 1999

REF ASCE7-10-GAB16015

DATE 10/01/14

DRWG A16015ENC101014

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

Gable Stud Reinforcement Detail

ASCE 7-16: 160 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

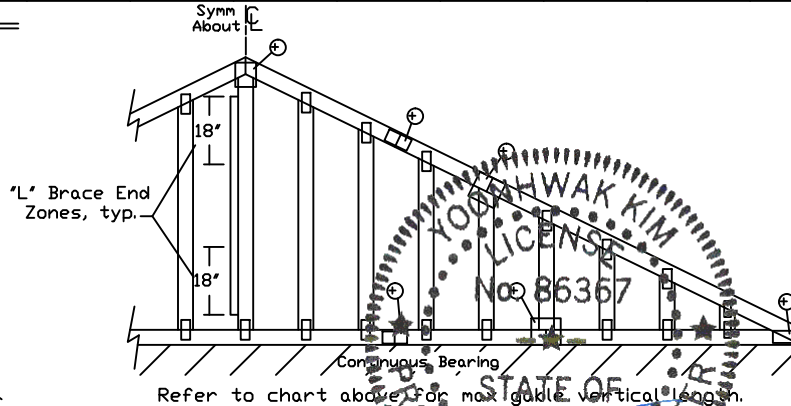
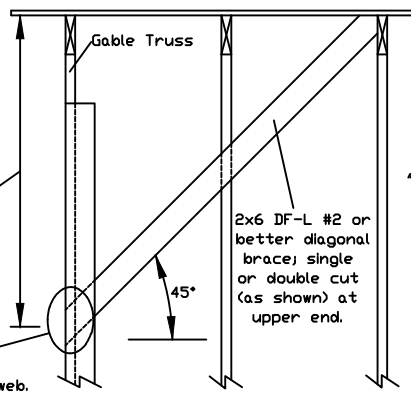
Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"
			#3	3' 8"	5' 9"	6' 2"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
			Stud	3' 8"	5' 9"	6' 1"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
		Standard	#1	3' 8"	4' 11"	5' 3"	6' 7"	7' 1"	8' 11"	9' 6"	10' 4"	11' 1"	14' 0"	14' 0"
			#2	4' 0"	6' 8"	6' 11"	7' 10"	8' 2"	9' 4"	9' 8"	12' 4"	12' 9"	14' 0"	14' 0"
			#3	3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"
	SP	DFL	#1	3' 9"	5' 3"	5' 7"	6' 11"	7' 5"	9' 2"	9' 7"	10' 11"	11' 8"	14' 0"	14' 0"
			Stud	3' 9"	5' 3"	5' 7"	6' 11"	7' 5"	9' 2"	9' 7"	10' 11"	11' 8"	14' 0"	14' 0"
			Standard	3' 6"	4' 7"	4' 11"	6' 2"	6' 7"	8' 4"	8' 11"	9' 8"	10' 4"	13' 1"	14' 0"
		DFL	#1 / #2	4' 5"	7' 6"	7' 9"	8' 10"	9' 3"	10' 7"	11' 0"	13' 11"	14' 0"	14' 0"	14' 0"
			#3	4' 2"	7' 1"	7' 9"	8' 9"	9' 1"	10' 5"	10' 10"	13' 9"	14' 0"	14' 0"	14' 0"
			Stud	4' 2"	7' 1"	7' 6"	8' 9"	9' 1"	10' 5"	10' 10"	13' 9"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	#1	4' 2"	6' 1"	6' 5"	8' 1"	8' 8"	10' 5"	10' 10"	12' 8"	13' 7"	14' 0"	14' 0"
			#3	4' 7"	7' 7"	7' 11"	9' 0"	9' 4"	10' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 2"	6' 1"	6' 5"	8' 1"	8' 8"	10' 5"	10' 10"	12' 8"	13' 7"	14' 0"	14' 0"
		Standard	#1	4' 7"	7' 7"	7' 11"	9' 0"	9' 4"	10' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 5"	7' 6"	7' 9"	8' 10"	9' 3"	10' 7"	11' 0"	13' 11"	14' 0"	14' 0"	14' 0"
			#3	4' 4"	6' 5"	6' 10"	8' 6"	9' 1"	10' 6"	10' 11"	13' 4"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
			Stud	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
			Standard	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
	SPF	#1 / #2	#1	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	12' 1"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	4' 7"	7' 0"	7' 5"	9' 4"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 7"	7' 0"	7' 5"	9' 4"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 7"	7' 0"	7' 5"	9' 4"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	#1	5' 1"	8' 5"	8' 8"	9' 11"	10' 3"	11' 9"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SPF	#1 / #2	#1	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 7"	6' 6"	6' 11"	8' 8"	9' 3"	11' 6"	12' 0"	13' 7"	14' 0"	14' 0"	14' 0"

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 600# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard

Group B:			
Hem-Fir			
#1 & Btr			
#1			

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 75 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.

** For (2) 'L' brace: 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"	2X3
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

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



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

09/24/2025
COA#0-278, Yoonhwak Kim, FL #86367

Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

REF ASCE7-16-GAB16015

DATE 01/26/2018

DRWG A16015ENC160118

Gable Stud Reinforcement Detail

ASCE 7-10: 160 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 MPH Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

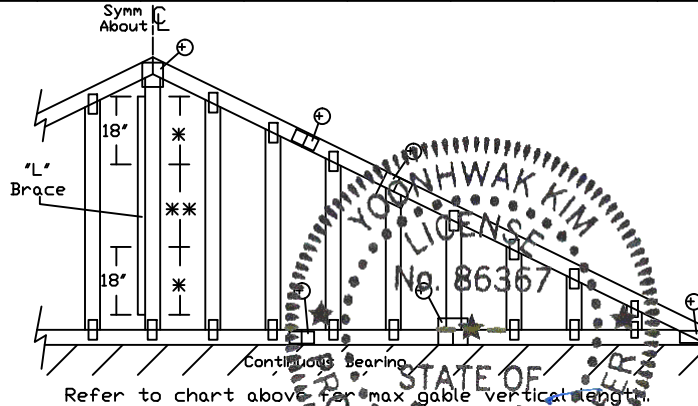
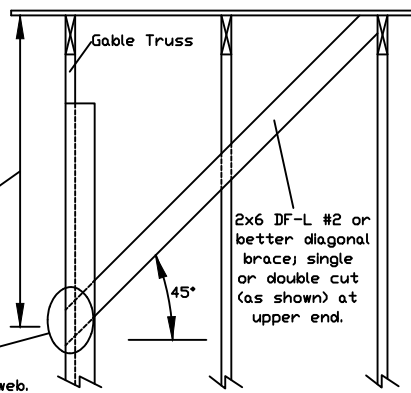
Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.		SPF	#1 / #2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"
			#3	3' 6"	5' 5"	5' 9"	7' 2"	7' 7"	8' 8"	9' 1"	11' 3"	11' 11"	13' 7"	14' 0"
			Stud	3' 6"	5' 4"	5' 8"	7' 2"	7' 7"	8' 8"	9' 1"	11' 2"	11' 11"	13' 7"	14' 0"
		SP	Standard	3' 6"	4' 7"	4' 11"	6' 2"	6' 7"	8' 4"	8' 11"	9' 8"	10' 4"	13' 1"	14' 0"
			#1	3' 10"	6' 4"	6' 7"	7' 6"	7' 9"	8' 11"	9' 3"	11' 9"	12' 2"	13' 11"	14' 0"
			#2	3' 8"	6' 1"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"
		DFL	#3	3' 7"	4' 10"	5' 2"	6' 5"	6' 11"	8' 9"	9' 1"	10' 1"	10' 10"	13' 8"	14' 0"
			Stud	3' 7"	4' 10"	5' 2"	6' 5"	6' 11"	8' 9"	9' 1"	10' 1"	10' 10"	13' 8"	14' 0"
			Standard	3' 3"	4' 3"	4' 7"	5' 8"	6' 1"	7' 9"	8' 3"	8' 11"	9' 7"	12' 2"	13' 0"
		SPF	#1 / #2	4' 2"	7' 2"	7' 5"	8' 5"	8' 9"	10' 1"	10' 6"	13' 3"	13' 9"	14' 0"	14' 0"
			#3	4' 0"	6' 7"	7' 5"	8' 4"	8' 8"	9' 11"	10' 4"	13' 1"	13' 7"	14' 0"	14' 0"
			Stud	4' 0"	6' 7"	7' 0"	8' 4"	8' 8"	9' 11"	10' 4"	13' 1"	13' 7"	14' 0"	14' 0"
16" O.C.		SPF	Standard	4' 0"	5' 8"	6' 0"	7' 6"	8' 0"	9' 11"	10' 4"	11' 10"	12' 8"	14' 0"	14' 0"
			#1	4' 5"	7' 3"	7' 6"	8' 7"	8' 11"	10' 2"	10' 7"	13' 5"	13' 11"	14' 0"	14' 0"
			#2	4' 2"	7' 2"	7' 5"	8' 5"	8' 9"	10' 1"	10' 6"	13' 3"	13' 9"	14' 0"	14' 0"
		SP	#3	4' 1"	5' 11"	6' 4"	7' 11"	8' 5"	10' 0"	10' 5"	12' 5"	13' 3"	14' 0"	14' 0"
			Stud	4' 1"	5' 11"	6' 4"	7' 11"	8' 5"	10' 0"	10' 5"	12' 5"	13' 3"	14' 0"	14' 0"
			Standard	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 5"	10' 2"	11' 0"	11' 9"	14' 0"	14' 0"
12" O.C.		SPF	#1 / #2	4' 8"	7' 11"	8' 2"	9' 4"	9' 8"	10' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 5"	7' 7"	8' 1"	9' 2"	9' 6"	10' 11"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 5"	7' 7"	8' 1"	9' 2"	9' 6"	10' 11"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	Standard	4' 5"	6' 6"	6' 11"	8' 8"	9' 3"	10' 11"	11' 5"	13' 7"	14' 0"	14' 0"	14' 0"
			#1	4' 10"	8' 0"	8' 3"	9' 5"	9' 9"	11' 2"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 8"	7' 11"	8' 2"	9' 4"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	#3	4' 6"	6' 10"	7' 3"	9' 1"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 6"	6' 10"	7' 3"	9' 1"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 5"	6' 1"	6' 5"	8' 1"	8' 7"	10' 11"	11' 5"	12' 8"	13' 7"	14' 0"	14' 0"

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 690# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 135 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X4
Greater than 4' 0", but less than 12' 0"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

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 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



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

09/24/2025

COA#0-278, Yoonhwak Kim, MAX. #8896C
Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

SPACING 24.0"

REF ASCE7-10-GAB16030

DATE 10/01/14

DRWG A16030ENC101014

Gable Stud Reinforcement Detail

ASCE 7-16: 160 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 MPH Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

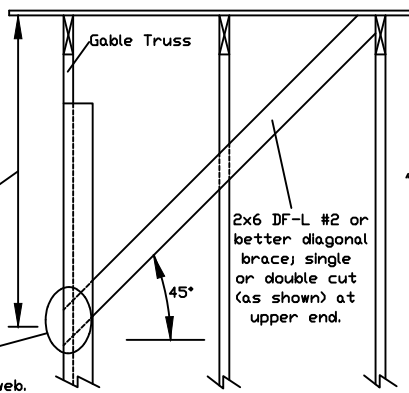
Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	HF	#1	3' 8"	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"
				#3	3' 6"	3' 6"	5' 5"	5' 9"	7' 2"	7' 7"	8' 8"	9' 1"	11' 3"	11' 11"
				Stud	3' 6"	3' 6"	5' 4"	5' 8"	7' 2"	7' 7"	8' 8"	9' 1"	11' 2"	11' 11"
		Standard	HF	#1	3' 6"	3' 6"	4' 7"	4' 11"	6' 2"	6' 7"	8' 4"	8' 11"	9' 8"	10' 4"
				#2	3' 10"	3' 10"	6' 4"	6' 7"	7' 6"	7' 9"	8' 11"	9' 3"	11' 9"	12' 2"
				#3	3' 8"	3' 8"	6' 1"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"
	SP	DFL	HF	#1	3' 7"	3' 7"	4' 10"	5' 2"	6' 5"	6' 11"	8' 9"	9' 1"	10' 1"	10' 10"
				#2	3' 7"	3' 7"	4' 10"	5' 2"	6' 5"	6' 11"	8' 9"	9' 1"	10' 1"	10' 10"
				Stud	3' 7"	3' 7"	4' 10"	5' 2"	6' 5"	6' 11"	8' 9"	9' 1"	10' 1"	10' 10"
		Standard	DFL	#1	3' 3"	3' 3"	4' 3"	4' 7"	5' 8"	6' 1"	7' 9"	8' 3"	8' 11"	9' 7"
				#2	3' 3"	3' 3"	4' 3"	4' 7"	5' 8"	6' 1"	7' 9"	8' 3"	8' 11"	9' 7"
				Stud	3' 3"	3' 3"	4' 3"	4' 7"	5' 8"	6' 1"	7' 9"	8' 3"	8' 11"	9' 7"
16" O.C.	SPF	#1 / #2	HF	#1	4' 2"	4' 2"	7' 2"	7' 5"	8' 5"	8' 9"	10' 1"	10' 6"	13' 3"	13' 9"
				#3	4' 0"	4' 0"	6' 7"	7' 5"	8' 4"	8' 8"	9' 11"	10' 4"	13' 1"	13' 7"
				Stud	4' 0"	4' 0"	6' 7"	7' 5"	8' 4"	8' 8"	9' 11"	10' 4"	13' 1"	13' 7"
		Standard	HF	#1	4' 0"	4' 0"	5' 8"	6' 0"	7' 6"	8' 0"	9' 11"	10' 4"	11' 10"	12' 8"
				#2	4' 5"	4' 5"	7' 3"	7' 6"	8' 7"	8' 11"	10' 2"	10' 7"	13' 5"	13' 11"
				#3	4' 2"	4' 2"	7' 2"	7' 5"	8' 5"	8' 9"	10' 1"	10' 6"	13' 3"	13' 9"
	SP	DFL	HF	#1	4' 1"	4' 1"	5' 11"	6' 4"	7' 11"	8' 5"	10' 0"	10' 5"	12' 5"	13' 3"
				#2	4' 1"	4' 1"	5' 11"	6' 4"	7' 11"	8' 5"	10' 0"	10' 5"	12' 5"	13' 3"
				Stud	4' 1"	4' 1"	5' 11"	6' 4"	7' 11"	8' 5"	10' 0"	10' 5"	12' 5"	13' 3"
		Standard	DFL	#1	4' 0"	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 5"	10' 2"	11' 0"	11' 9"
				#2	4' 0"	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 5"	10' 2"	11' 0"	11' 9"
				Stud	4' 0"	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 5"	10' 2"	11' 0"	11' 9"
12" O.C.	SPF	#1 / #2	HF	#1	4' 8"	4' 8"	7' 11"	8' 2"	9' 4"	9' 8"	10' 1"	11' 6"	14' 0"	14' 0"
				#3	4' 5"	4' 5"	7' 7"	8' 1"	9' 2"	9' 6"	10' 11"	11' 5"	14' 0"	14' 0"
				Stud	4' 5"	4' 5"	7' 7"	8' 1"	9' 2"	9' 6"	10' 11"	11' 5"	14' 0"	14' 0"
		Standard	HF	#1	4' 5"	4' 5"	6' 6"	6' 11"	8' 8"	9' 3"	10' 11"	11' 5"	13' 7"	14' 0"
				#2	4' 5"	4' 5"	6' 6"	6' 11"	8' 8"	9' 3"	10' 11"	11' 5"	13' 7"	14' 0"
				Stud	4' 5"	4' 5"	6' 6"	6' 11"	8' 8"	9' 3"	10' 11"	11' 5"	13' 7"	14' 0"
	SP	DFL	HF	#1	4' 10"	4' 10"	8' 0"	8' 3"	9' 5"	9' 9"	11' 2"	11' 8"	14' 0"	14' 0"
				#2	4' 8"	4' 8"	7' 11"	8' 2"	9' 4"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"
				#3	4' 6"	4' 6"	6' 10"	7' 3"	9' 1"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"
		Standard	DFL	#1	4' 6"	4' 6"	6' 10"	7' 3"	9' 1"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"
				#2	4' 6"	4' 6"	6' 10"	7' 3"	9' 1"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"
				Stud	4' 6"	4' 6"	6' 10"	7' 3"	9' 1"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"

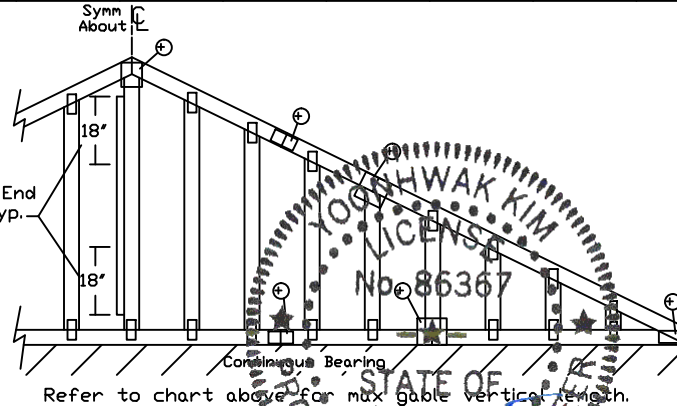
Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 690# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



'L' Brace End Zones, typ.



Refer to chart above for max gable vertical length.

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard

Group B:			
Hem-Fir			
#1 & Btr			
#1			

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 135 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X4
Greater than 4' 0", but less than 12' 0"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

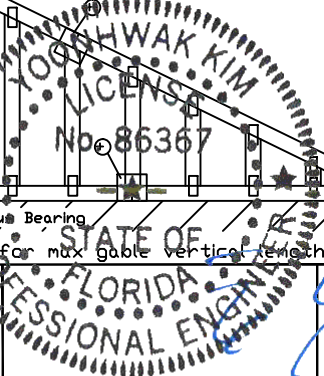
WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING. FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

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 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



MAX. TOT. LD. 60 PSF

08/24/2025
COA#0-278, Yoonhwak Kim, FL 86367

MAX 86367

REF ASCE7-16-GAB16030

DATE 01/26/2018

DRWG A16030ENC160118

Florida Certificate of Product Approval #FL 1999

Gable Stud Reinforcement Detail

ASCE 7-10: 180 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 160 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 160 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Or: 140 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	3' 6"	6' 0"	6' 3"	7' 1"	7' 4"	8' 5"	8' 9"	11' 1"	11' 7"	13' 3"	13' 9"	
		#3	3' 4"	5' 1"	5' 5"	6' 9"	7' 3"	8' 4"	8' 8"	10' 7"	11' 4"	13' 1"	13' 7"	
		Stud	3' 4"	5' 0"	5' 4"	6' 9"	7' 2"	8' 4"	8' 8"	10' 6"	11' 3"	13' 1"	13' 7"	
		Standard	3' 4"	4' 4"	4' 7"	5' 9"	6' 2"	7' 10"	8' 5"	9' 1"	9' 8"	12' 4"	13' 2"	
	SP	#1	3' 8"	6' 1"	6' 4"	7' 2"	7' 5"	8' 6"	8' 10"	11' 3"	11' 8"	13' 4"	13' 11"	
		#2	3' 6"	5' 9"	6' 2"	7' 1"	7' 4"	8' 5"	8' 9"	11' 1"	11' 7"	13' 3"	13' 9"	
		#3	3' 5"	4' 7"	4' 10"	6' 1"	6' 6"	8' 2"	8' 9"	9' 6"	10' 2"	12' 11"	13' 8"	
		Stud	3' 5"	4' 7"	4' 10"	6' 1"	6' 6"	8' 2"	8' 9"	9' 6"	10' 2"	12' 11"	13' 8"	
	DFL	Standard	3' 1"	4' 0"	4' 3"	5' 4"	5' 9"	7' 3"	7' 9"	8' 5"	9' 0"	11' 5"	12' 3"	
		#1 / #2	4' 0"	6' 10"	7' 2"	8' 1"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
		#3	3' 10"	6' 2"	7' 2"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		Stud	3' 10"	6' 2"	6' 7"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
16" O.C.	SPF	Standard	3' 10"	5' 4"	5' 8"	7' 1"	7' 7"	9' 7"	9' 11"	11' 1"	11' 11"	14' 0"	14' 0"	
		#1	4' 3"	7' 0"	7' 3"	8' 3"	8' 6"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"	
		#2	4' 0"	6' 10"	7' 2"	8' 1"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
		#3	3' 11"	5' 7"	5' 11"	7' 5"	7' 11"	9' 7"	10' 0"	11' 8"	12' 6"	14' 0"	14' 0"	
	SP	Stud	3' 11"	5' 7"	5' 11"	7' 5"	7' 11"	9' 7"	10' 0"	11' 8"	12' 6"	14' 0"	14' 0"	
		Standard	3' 9"	4' 11"	5' 3"	6' 7"	7' 0"	8' 11"	9' 6"	10' 4"	11' 1"	14' 0"	14' 0"	
		#1 / #2	4' 5"	7' 7"	7' 10"	8' 11"	9' 3"	9' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	4' 3"	7' 2"	7' 7"	8' 10"	9' 2"	10' 6"	10' 11"	13' 10"	14' 0"	14' 0"	14' 0"	
	DFL	Stud	4' 3"	7' 1"	7' 7"	8' 10"	9' 2"	10' 6"	10' 11"	13' 10"	14' 0"	14' 0"	14' 0"	
		Standard	4' 3"	6' 2"	6' 6"	8' 2"	8' 9"	10' 6"	10' 11"	12' 10"	13' 9"	14' 0"	14' 0"	
		#1	4' 8"	7' 8"	7' 11"	9' 0"	9' 5"	10' 9"	11' 2"	14' 0"	14' 0"	14' 0"	14' 0"	
		#2	4' 5"	7' 7"	7' 10"	8' 11"	9' 3"	10' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"	
12" O.C.	SPF	#3	4' 4"	6' 5"	6' 10"	8' 7"	9' 12"	10' 7"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"	
		Stud	4' 4"	6' 5"	6' 10"	8' 7"	9' 12"	10' 7"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"	
		Standard	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"	
		#1	4' 8"	7' 8"	7' 11"	9' 0"	9' 5"	10' 9"	11' 2"	14' 0"	14' 0"	14' 0"	14' 0"	
SP	#2	4' 5"	7' 7"	7' 10"	8' 11"	9' 3"	10' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"		
	#3	4' 4"	6' 5"	6' 10"	8' 7"	9' 12"	10' 7"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"		
	Stud	4' 4"	6' 5"	6' 10"	8' 7"	9' 12"	10' 7"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"		
	Standard	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"		

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3	Stud	#3	Stud
Standard	Standard	Standard	Standard

Group B:	
Hem-Fir	
#1 & Btr	
#1	
Douglas Fir-Larch	
#1	
#2	
Southern Pine	
#1	
#2	

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X3
Greater than 4' 0", but less than 10' 0"	4X4

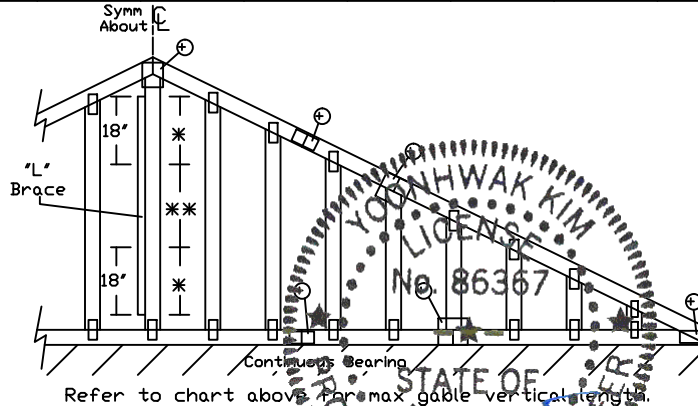
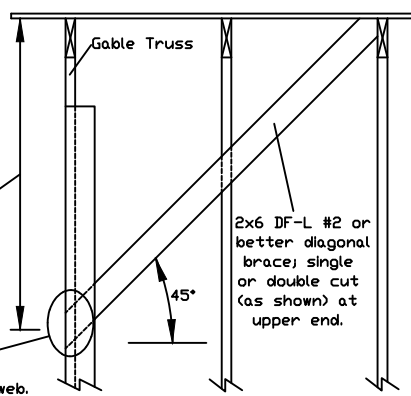
+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 775# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



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 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.sbcacompnents.com; ICC: www.iccsafe.org



155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025

COA#0-278, Yoonhwak Kim, FMAX #8894
 Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

REF ASCE7-10-GAB18015

DATE 10/01/14

DRWG A18015ENC101014

Gable Stud Reinforcement Detail

ASCE 7-16: 180 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 160 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 160 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Or: 140 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	3' 6"	6' 0"	6' 3"	7' 1"	7' 4"	8' 5"	8' 9"	11' 1"	11' 7"	13' 3"	13' 9"
			#3	3' 4"	5' 1"	5' 5"	6' 9"	7' 3"	8' 4"	8' 8"	10' 7"	11' 4"	13' 1"	13' 7"
			Stud	3' 4"	5' 0"	5' 4"	6' 9"	7' 2"	8' 4"	8' 8"	10' 6"	11' 3"	13' 1"	13' 7"
		Standard	#1	3' 8"	6' 1"	6' 4"	7' 2"	7' 5"	8' 6"	8' 10"	11' 3"	11' 8"	13' 4"	13' 11"
			#2	3' 6"	5' 9"	6' 2"	7' 1"	7' 4"	8' 5"	8' 9"	11' 1"	11' 7"	13' 3"	13' 9"
			#3	3' 5"	4' 7"	4' 10"	6' 1"	6' 6"	8' 2"	8' 9"	9' 6"	10' 2"	12' 11"	13' 8"
	SP DFL	#1 / #2	#1	3' 5"	4' 7"	4' 10"	6' 1"	6' 6"	8' 2"	8' 9"	9' 6"	10' 2"	12' 11"	13' 8"
			#3	3' 1"	4' 0"	4' 3"	5' 4"	5' 9"	7' 3"	7' 9"	8' 5"	9' 0"	11' 5"	12' 3"
			Stud	3' 1"	4' 0"	4' 3"	5' 4"	5' 9"	7' 3"	7' 9"	8' 5"	9' 0"	11' 5"	12' 3"
		Standard	#1	4' 0"	6' 10"	7' 2"	8' 1"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"
			#3	3' 10"	6' 2"	7' 2"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"
			Stud	3' 10"	6' 2"	7' 2"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	#1	4' 3"	7' 0"	7' 3"	8' 3"	8' 6"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"
			#2	4' 0"	6' 10"	7' 2"	8' 1"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"
			#3	3' 11"	5' 7"	5' 11"	7' 5"	7' 11"	9' 7"	10' 0"	11' 8"	12' 6"	14' 0"	14' 0"
		Standard	#1	3' 9"	4' 11"	5' 3"	6' 7"	7' 0"	8' 11"	9' 6"	10' 4"	11' 1"	14' 0"	14' 0"
			#3	4' 3"	7' 2"	7' 7"	8' 10"	9' 2"	10' 6"	10' 11"	13' 10"	14' 0"	14' 0"	14' 0"
			Stud	4' 3"	7' 1"	7' 7"	8' 10"	9' 2"	10' 6"	10' 11"	13' 10"	14' 0"	14' 0"	14' 0"
	SP DFL	#1 / #2	#1	4' 3"	7' 1"	7' 7"	8' 10"	9' 2"	10' 6"	10' 11"	13' 10"	14' 0"	14' 0"	14' 0"
			#3	4' 3"	7' 1"	7' 7"	8' 10"	9' 2"	10' 6"	10' 11"	13' 10"	14' 0"	14' 0"	14' 0"
			Stud	4' 3"	6' 2"	6' 6"	8' 2"	8' 9"	10' 6"	10' 11"	12' 10"	13' 9"	14' 0"	14' 0"
		Standard	#1	4' 8"	7' 8"	7' 11"	9' 0"	9' 5"	10' 9"	11' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 5"	7' 7"	7' 10"	8' 11"	9' 3"	10' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 4"	6' 5"	6' 10"	8' 7"	9' 12"	10' 7"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	#1	4' 4"	6' 5"	6' 10"	8' 7"	9' 12"	10' 7"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
			#3	4' 4"	6' 5"	6' 10"	8' 7"	9' 12"	10' 7"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
			Stud	4' 4"	6' 5"	6' 10"	8' 7"	9' 12"	10' 7"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"
			#3	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"
			Stud	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"
	SP DFL	#1 / #2	#1	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"
			#3	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"
			Stud	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"
		Standard	#1	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"
			#3	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"
			Stud	4' 3"	5' 8"	6' 1"	7' 7"	8' 1"	10' 3"	10' 11"	11' 11"	12' 9"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3	Stud	#3	Stud
	Standard		Standard

Group B:			
Hem-Fir			
#1 & Btr	#1		
Douglas Fir-Larch		Southern Pine***	
#1	#2	#1	#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X3
Greater than 4' 0", but less than 10' 0"	4X4

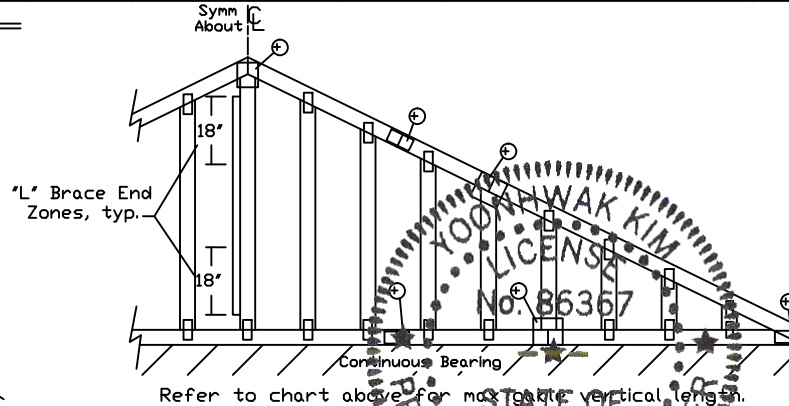
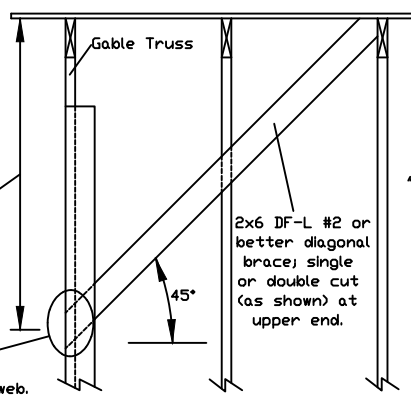
+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 775# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



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155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025
 COA#0-278, Yoonhwak Kim, FL PE #86367

Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

REF ASCE7-16-GAB18015

DATE 01/26/2018

DRWG A18015ENC160118

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.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

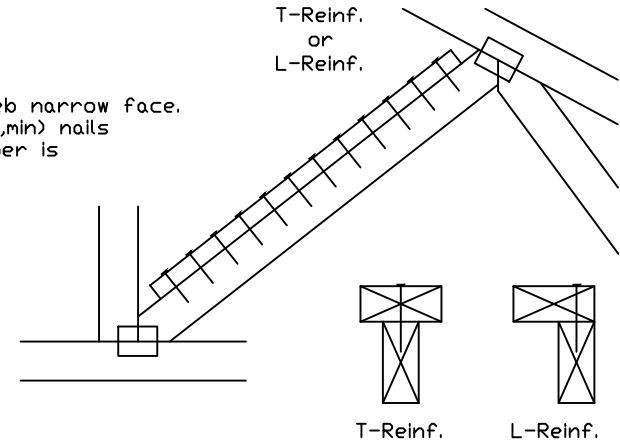
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

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

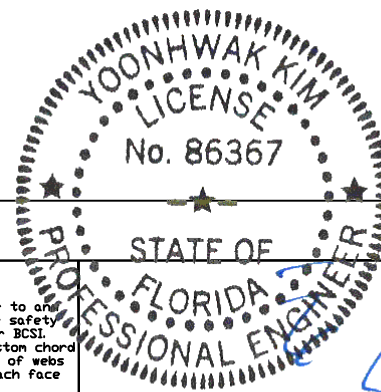
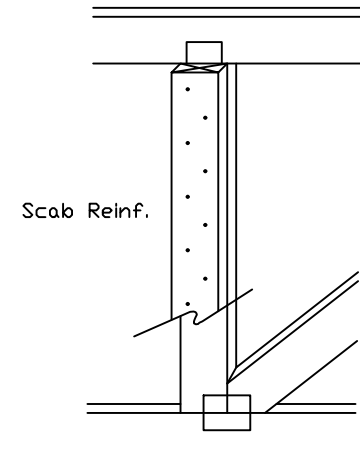
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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.



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155 Harlem Ave
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Glenview, IL 60025

TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

09/24/2025
CORR# 270, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

CLR Reinforcing Member Substitution

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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.

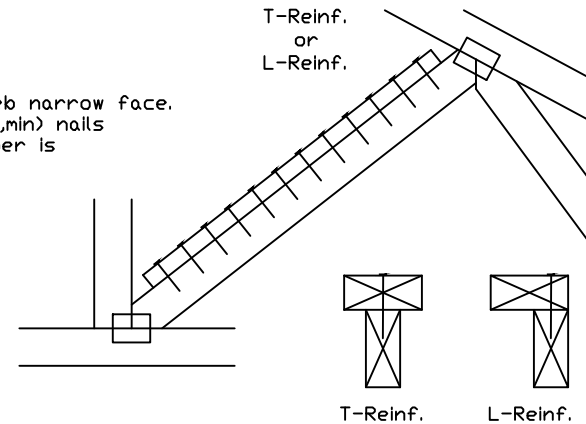
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x6(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

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

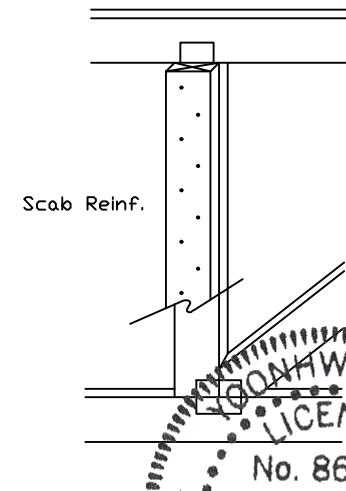
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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.



13723 Riverport Drive
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Maryland Heights, MO 63043

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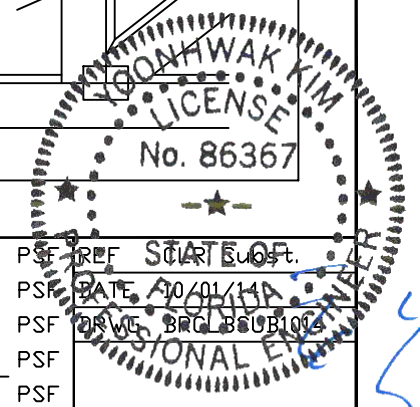
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TC LL
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BC DL
BC LL
TOT. LD.

DUR. FAC.
SPACING

PSF REF
PSF REF
PSF REF
PSF REF
PSF REF



NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

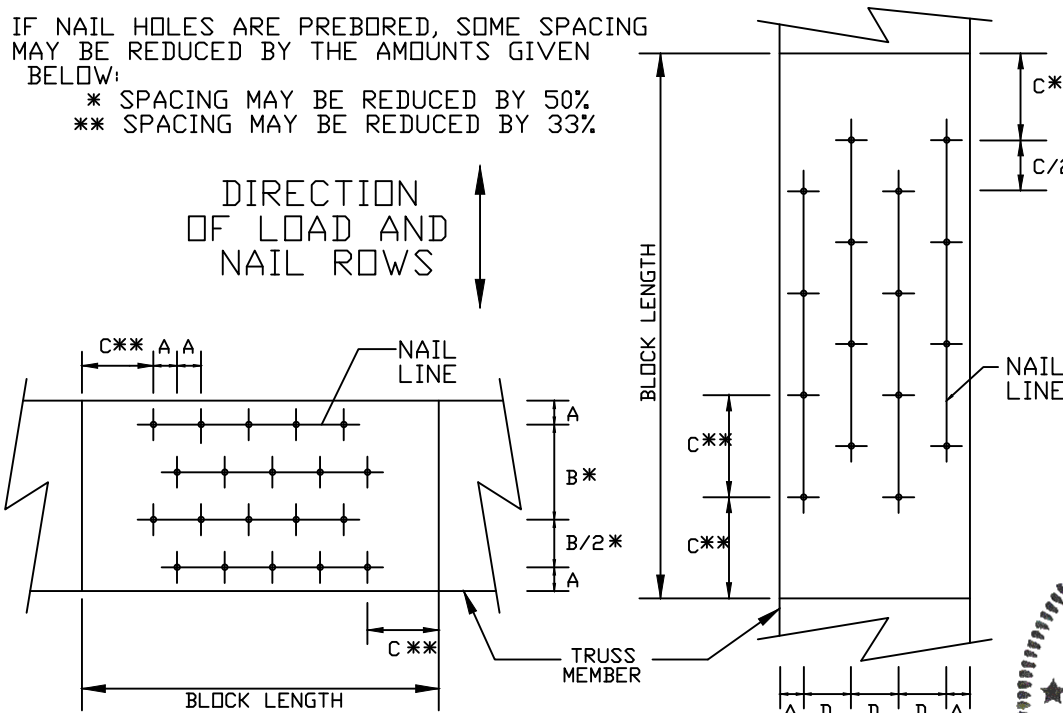
C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

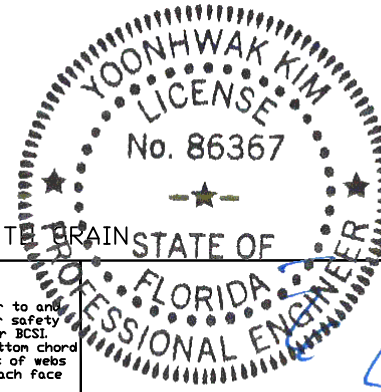
* SPACING MAY BE REDUCED BY 50%

** SPACING MAY BE REDUCED BY 33%



MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3",MIN)	7/8"	1 5/8"	2"	1"



155 Harlem Ave
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Glenview, IL 60025

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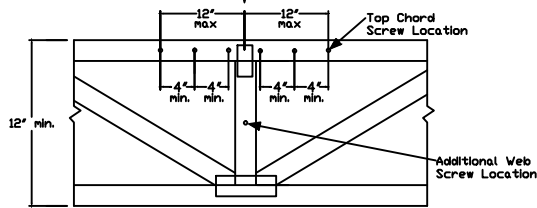
09/24/2025
Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

REF	NAIL SPACE
DATE	10/01/14
DRWG	CNNAILSP1014

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below

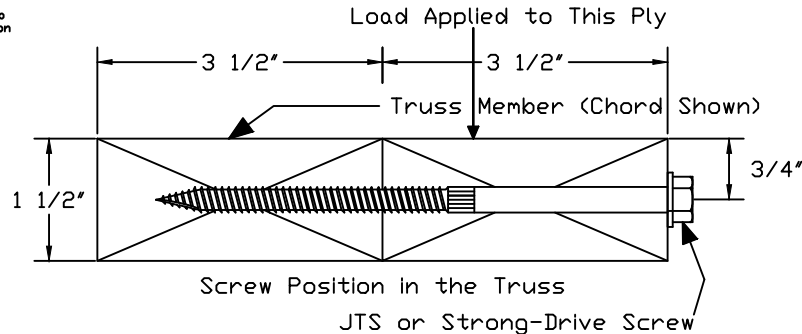


Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

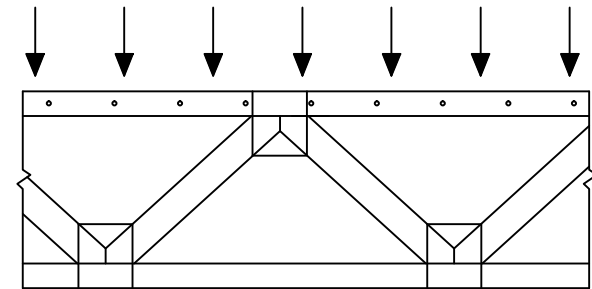
For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

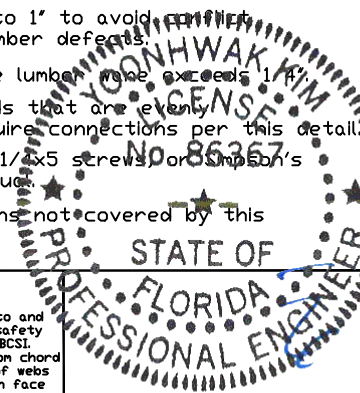
1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber knots exceed 1 1/2".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

09/24/2025
 COA#0-278, Yoonhwak Kim, E - PL #86367
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Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

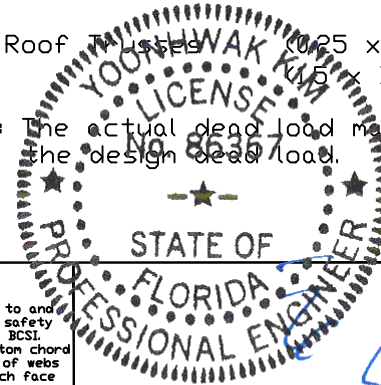
L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + Design Dead Load Deflection

Note: The actual dead load may be considerably less than the design dead load.



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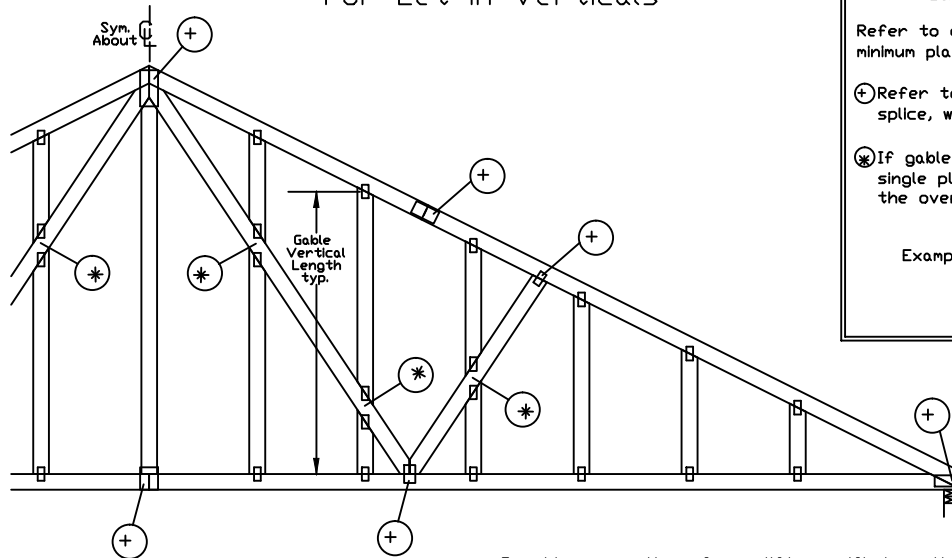
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09/24/2025
COA#0-278, Yoonhwak Kim, FL PE #86367

Florida Certificate of Product Approval #FL 1999

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

Gable Detail For Let-in Verticals



Gable Truss Plate Sizes

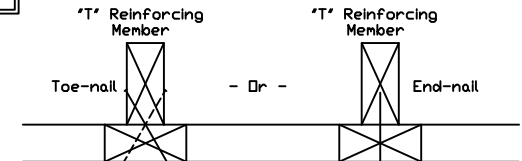
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ 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.

Example: 2X4 2X4 2X8

'T' Reinforcement Attachment Detail



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	'T' 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"

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.

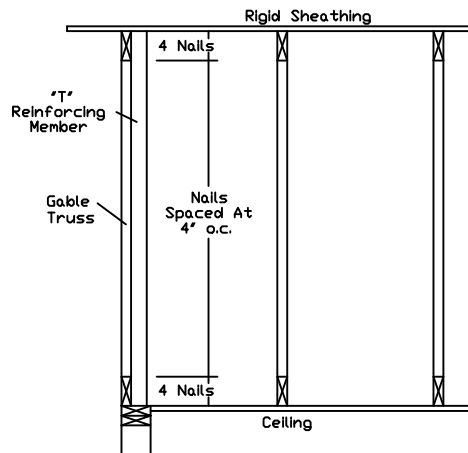
ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A10015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PE100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A10030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PE100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PE100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PE100118

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



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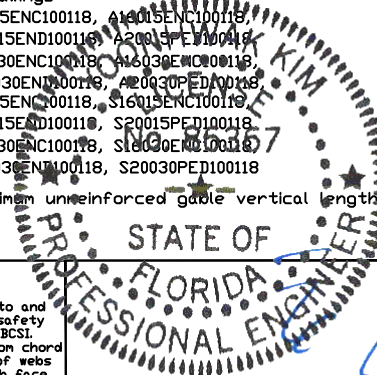
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AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



09/24/2025

COA#0-278, Yoonhwak Kim, FL #18030

Florida Certificate of Product Approval #FL 1999

REF LET-IN VERT

DATE 01/02/2018

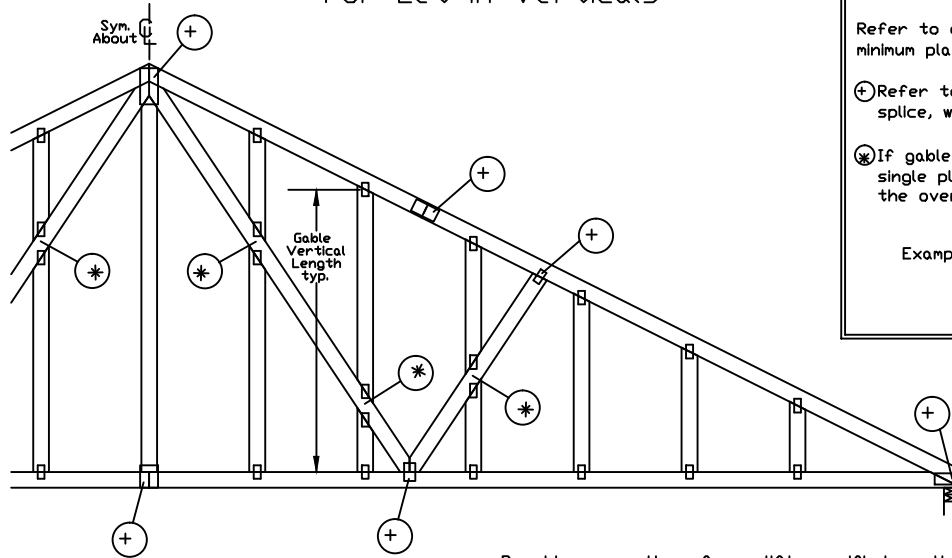
DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

Gable Detail For Let-in Verticals



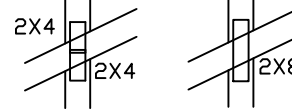
Gable Truss Plate Sizes

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

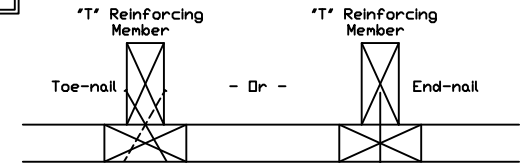
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



'T' Reinforcement Attachment Detail



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	'T' 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) = 130% = 1.30

(1) 2x4 'L' Brace Length = 8' x 1.30 = 10' 4"

Maximum 'T' Reinforced Gable Vertical Length = 10' 4" x 8' 7" = 11' 0"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",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.

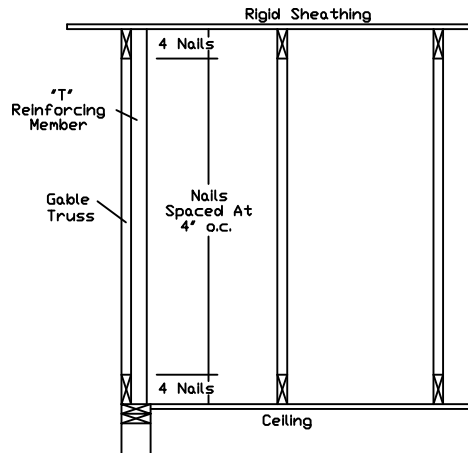
ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 Gable Detail Drawings

A11515ENC101014, A12015ENC101014, A14015ENC101014, A16015ENC101014,
A18015ENC101014, A20015ENC101014, A20015END101014, A20015PED101014,
A11530ENC101014, A12030ENC101014, A14030ENC101014, A16030ENC101014,
A18030ENC101014, A20030ENC101014, A20030END101014, A20030PED101014
S11515ENC100815, S12015ENC100815, S14015ENC100815, S16015ENC100815,
S18015ENC100815, S20015ENC100815, S20015END100815, S20015PED100815,
S11530ENC100815, S12030ENC100815, S14030ENC100815, S16030ENC100815,
S18030ENC100815, S20030ENC100815, S20030END100815, S20030PED100815

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



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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

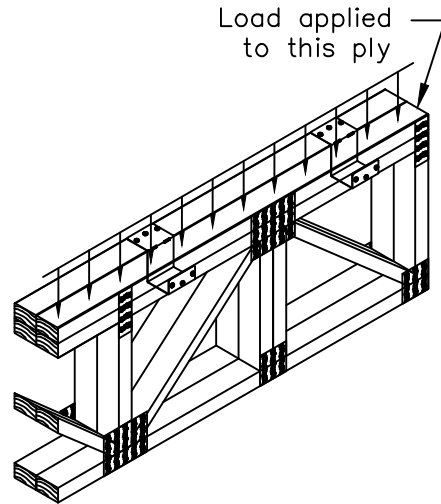
MAX. SPACING 24.0'

09/24/2025, Yoonhwak Kim, FL PE #86367

Florida Certificate of Product Approval #FL

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL FOR DOWNWARD LOADS ONLY

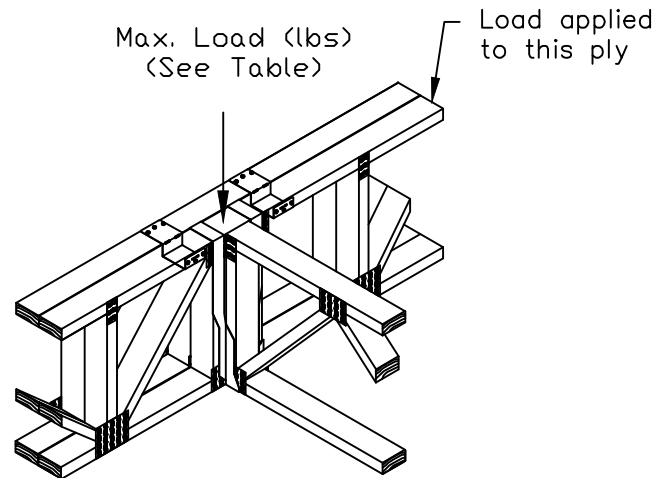
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



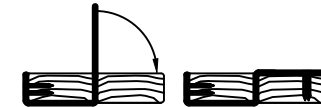
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:

Install LSC adjacent, equidistant and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



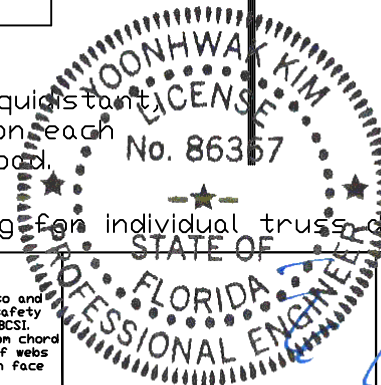
LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.



155 Harlem Ave
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Glenview, IL 60025

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REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

DUR. FAC. ALL

Piggyback Detail - ASCE 7-22: 180 mph, 30' Mean Hgt, Partially Enclosed, Exp. C, Kzt=1.00

180 mph Wind, 30.00 ft Mean Hgt, ASCE 7-22, Part. Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 160 mph wind, 30.00 ft Mean Hgt, ASCE 7-22, Part. Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

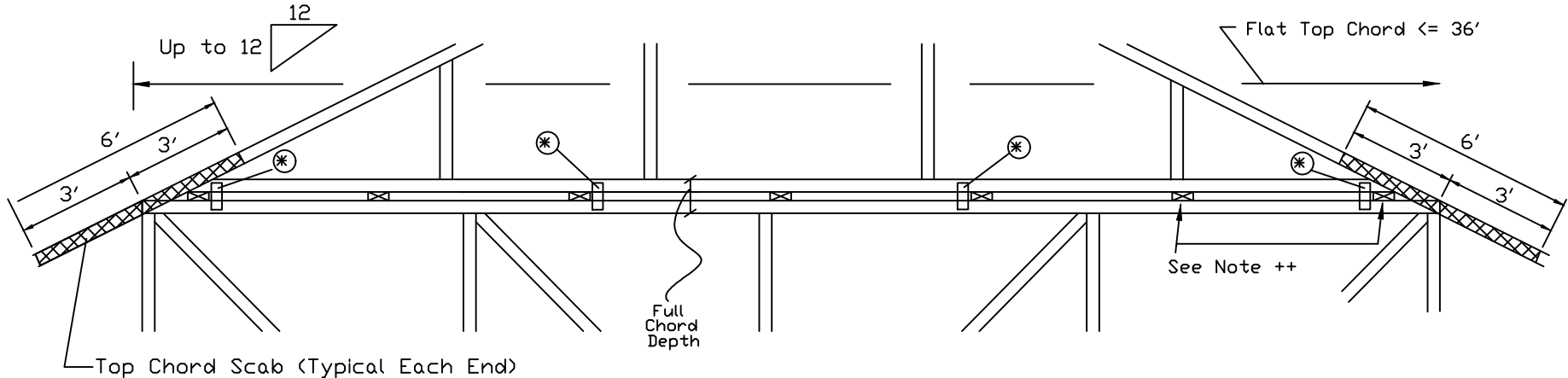
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building designer shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24' o.c. Detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

++ Flat top chord purlins required at both ends and at a maximum of 24' intervals unless otherwise noted on base truss design drawing. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



* In addition, provide connection with one of the following methods:

Trulox

Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375' nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

28PB Wave Piggyback Plate

One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375' nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

APA Rated Gusset

8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs

2x4 SP #2 Full chord depth scabs (each face). Attach @ 8' o.c. with (4) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

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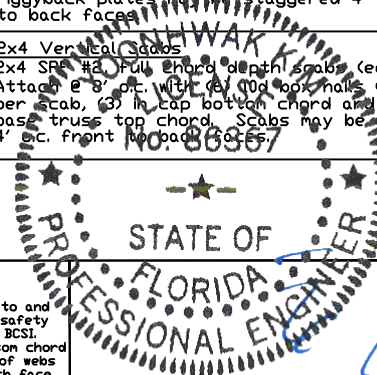
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



09/24/2025

COA#0-278, Yoonhwak Kim, FL

SPACING

24.0"

REF PIGGYBACK
DATE 07/03/2023
DRWG PB180220723

Florida Certificate of Product Approval #FL 1999

Scabbed Piggyback Detail

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Maximum truss spacing is 24' o.c. Detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

- * 2x4, 2x6, 2x8, 2x10 or 2x12, #2 or #2 PT, SPF, Hem-Fir, or SP as needed. Attach scab to one face of truss with 16d (0.162"x3.5") common nails or 0.128"x3" gun nails @ 3' o.c. throughout top chord.

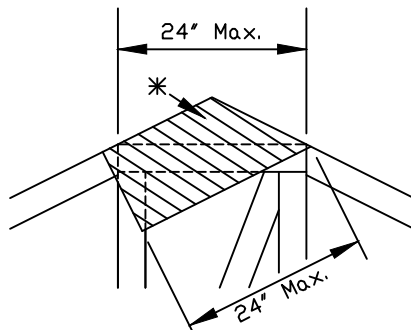
- ** Piggyback as per ITWBCG drawing. Attach to top chord of supporting truss using either the attachment specified on ITWBCG drawing or with gun nails (0.131"x3" gun nails) at: 8' o.c. for ASCE 7-10, 160 mph, Enc. Bldg, Exp B & C, 30' MH 6' o.c. for ASCE 7-10, 180 mph, Part. Enc. Bldg, Exp B, 30' MH 6' o.c. for ASCE 7-10, 180 mph, Enc. Bldg, Exp C, 30' MH 4' o.c. for ASCE 7-10, 180 mph, Part. Enc. Bldg, Exp C, 30' MH

- *** Toenail block to top chord with 0.128"x3" gun nails @ 4' oc from each face throughout top chord.

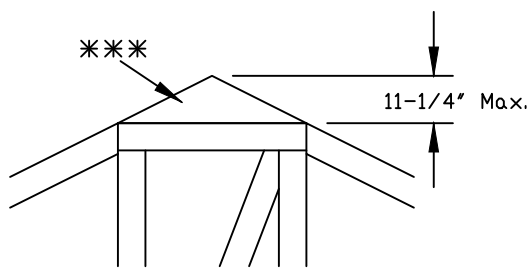
- ++ Detail valid only for full overlap of piggyback chord as shown.

- + Continuous Lateral Bracing (CLB) as specified on the supporting truss ITWBCG drawing or at 24' o.c. if not specified. Attach to each supporting truss with (2) 16d (0.162"x3.5") common nails. Bracing material to be supplied and attached at both ends to a suitable support by erection contractor.

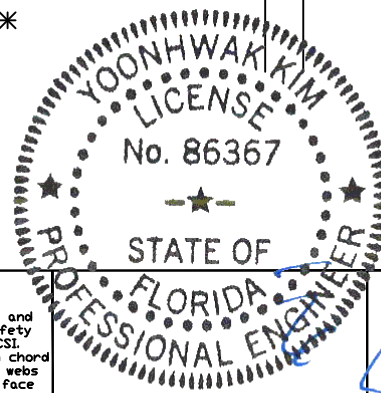
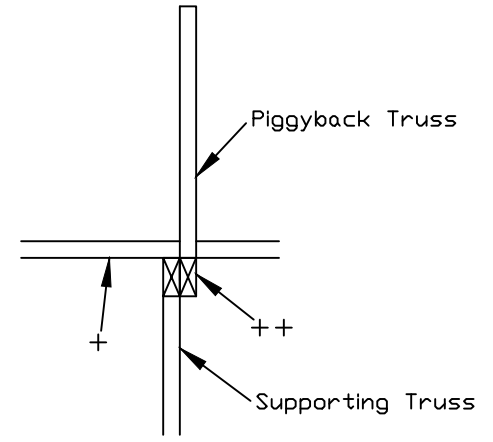
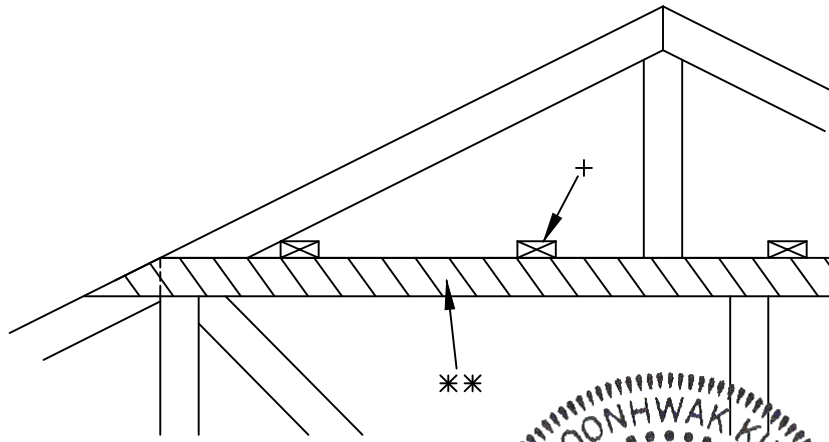
- + CLB lumber: 2x4 or 2x6 #2 or #2 PT, SPF, Hem-Fir, or SP. CLB may be applied to top edge of supporting truss top chord (as shown) or bottom edge of supporting truss top chord.



Scab Detail



Top Chord Block Detail



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155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

MAX. TOT. LD. 55 PSF
 DUR. FAC. 1.25
 SPACING 24.0"

REF PIGGYBACK SCAB

DATE 10/01/14

DRWG PBSCAB101014

09/24/2025
 COA#0-278, Yoonhwak Kim, PE #480367
 Florida Certificate of Product Approval #FL 1999

Scabbed Piggyback Detail

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Maximum truss spacing is 24' o.c. Detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

* 2x4,2x6,2x8,2x10 or 2x12, #2 or #2 PT, SPF, Hem-Fir, or SP as needed. Attach scab to one face of truss with 16d (0.162"x3.5") common nails or 0.128"x3" gun nails

@ 3' o.c. throughout top chord.

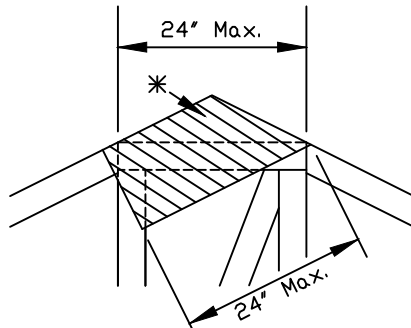
** Piggyback as per ITWBCG drawing. Attach to top chord of supporting truss using either the attachment specified on Alpine drawing or with gun nails (0.131"x3" gun nails) at:
8' o.c. for ASCE 7-16, 160 mph, Enc. Bldg, Exp B & C, 30' MH
6' o.c. for ASCE 7-16, 180 mph, Part. Enc. Bldg, Exp B, 30' MH
6' o.c. for ASCE 7-16, 180 mph, Enc. Bldg, Exp C, 30' MH
4' o.c. for ASCE 7-16, 180 mph, Part. Enc. Bldg, Exp C, 30' MH

*** Toenail block to top chord with 0.128"x3" gun nails @ 4' o.c from each face throughout top chord.

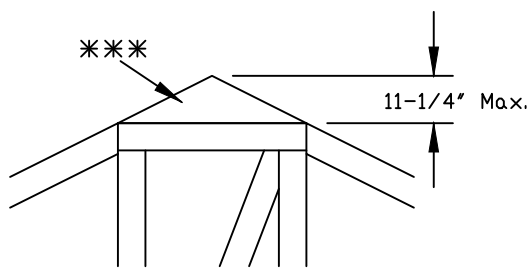
++ Detail valid only for full overlap of piggyback chord as shown.

+ Continuous Lateral Bracing (CLB) as specified on the supporting truss ITWBCG drawing or at 24' o.c. if not specified. Attach to each supporting truss with (2) 16d (0.162"x3.5") common nails. Bracing material to be supplied and attached at both ends to a suitable support by erection contractor.

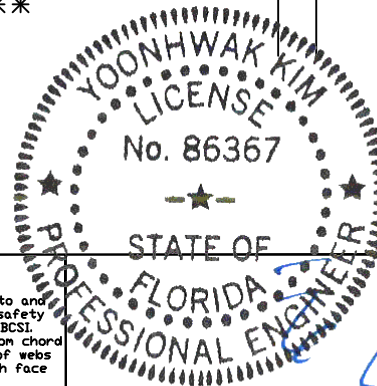
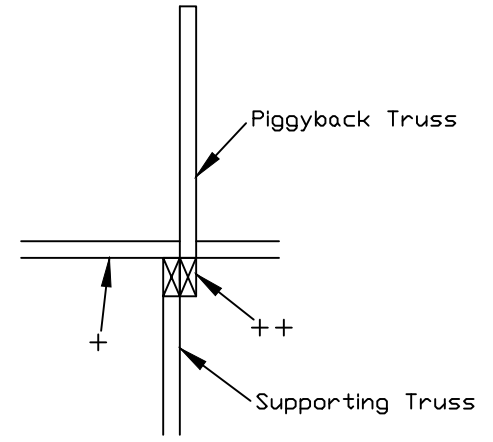
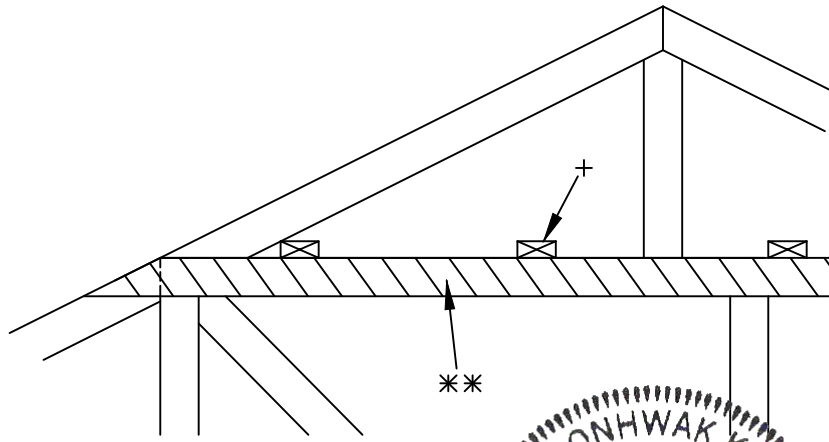
+ CLB lumber: 2x4 or 2x6 #2 or #2 PT, SPF, Hem-Fir, or SP. CLB may be applied to top edge of supporting truss top chord (as shown) or bottom edge of supporting truss top chord.



Scab Detail



Top Chord Block Detail



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ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

REF PIGGYBACK SCAB

DATE 01/02/2018

DRWG PBSCAB160118

MAX. TOT. LD. 55 PSF

DUR. FAC. 1.25

SPACING 24.0"

09/24/2025
COA#0-278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

Scabbed Piggyback Detail

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building designer shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

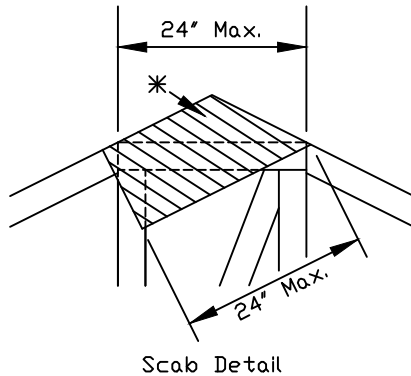
Maximum truss spacing is 24' o.c. Detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

- * 2x4, 2x6, 2x8, 2x10 or 2x12, #2 or #2 PT, SPF, Hem-Fir, or SP as needed. Attach scab to one face of truss with 16d (0.162"x3.5") common nails or 0.128"x3" gun nails @ 3' o.c. throughout top chord.
- ** Piggyback as per Alpine drawing. Attach to top chord of supporting truss using either the attachment specified on Alpine drawing or with gun nails (0.131"x3" gun nails) at:
 - 8' o.c. for ASCE 7-22, 160 mph, Enc. Bldg, Exp B & C, 30' MH
 - 6' o.c. for ASCE 7-22, 180 mph, Part. Enc. Bldg, Exp B, 30' MH
 - 6' o.c. for ASCE 7-22, 180 mph, Enc. Bldg, Exp C, 30' MH
 - 4' o.c. for ASCE 7-22, 180 mph, Part. Enc. Bldg, Exp C, 30' MH
- *** Toenail block to top chord with 0.128"x3" gun nails @ 4' o.c. from each face throughout top chord.

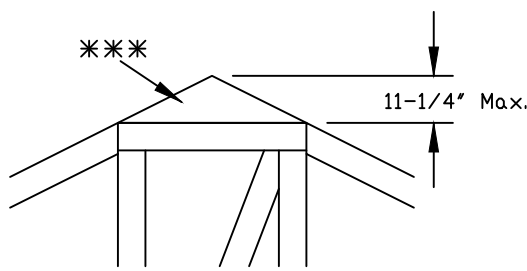
++ Detail valid only for full overlap of piggyback chord as shown.

+ Continuous Lateral Restraint (CLR) as specified on the supporting truss Alpine drawing or at 24' o.c. if not specified. Attach to each supporting truss with (2) 16d (0.162"x3.5") common nails. Bracing material to be supplied and attached at both ends to a suitable support by erection contractor.

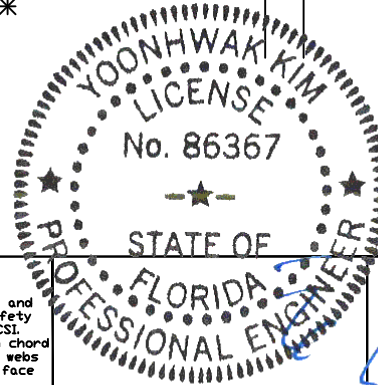
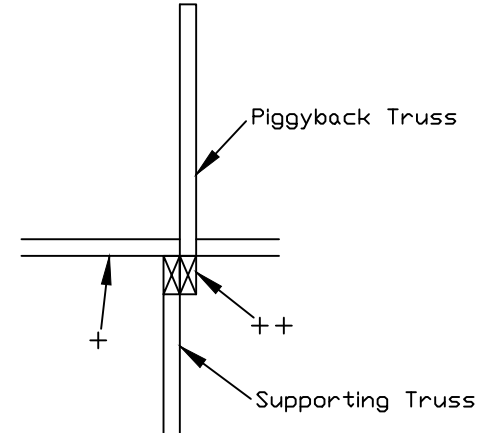
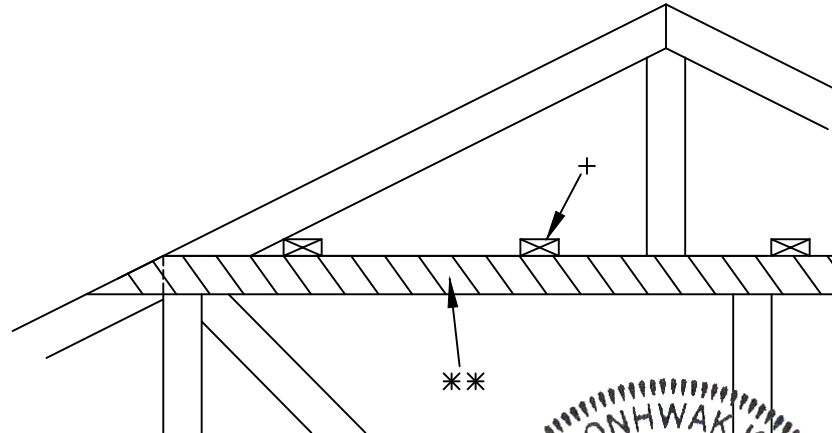
+ CLR lumber: 2x4 or 2x6 #2 or #2 PT, SPF, Hem-Fir, or SP. CLR may be applied to top edge of supporting truss top chord (as shown) or bottom edge of supporting truss top chord.



Scab Detail



Top Chord Block Detail



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155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

REF PIGGYBACK SCAB
 DATE 07/03/2023
 DRWG PBSCAB220723

MAX. TOT. LD. 55 PSF
 DUR. FAC. 1.25
 SPACING 24.0"

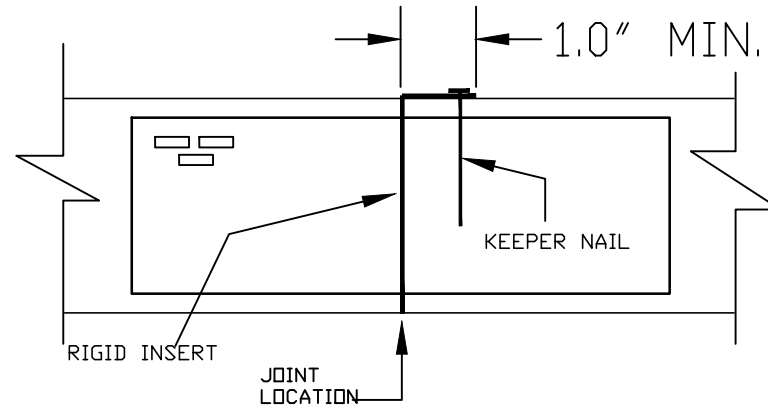
09/24/2025, Yoonhwak Kim, PE #86367
 Florida Certificate of Product Approval #FL 1999

RIGID INSERT DETAIL - REINFORCEMENT FOR HIGH STRESS COMPRESSION JOINTS

THIS DETAIL IS TO BE USED WHEN STRESS AT A COMPRESSION SPLICE EXCEEDS 75% OF THE ALLOWABLE COMPRESSION STRESS PER TPI 1 SECTION 7.3.9.2

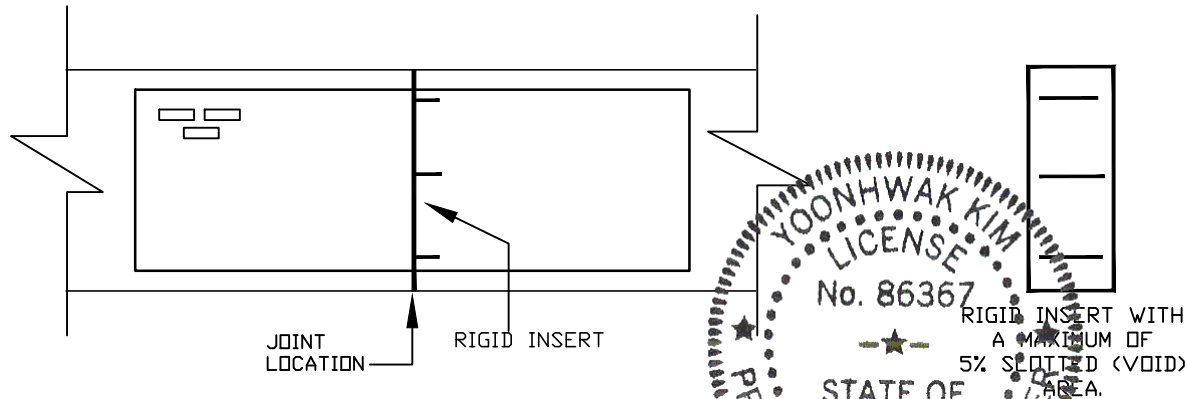
OPTION #1:

APPLY A 20 GAGE MINIMUM METAL INSERT BETWEEN BUTTED ENDS OF COMPRESSION CHORD MEMBERS TO FULLY COVER THE JOINT BEARING AREA. BEND RIGID INSERT OVER THE TOP OR BOTTOM OF THE COMPRESSION MEMBER A MINIMUM OF 1" AND SECURE IN PLACE WITH A KEEPER NAIL. KEEPER NAIL IS TO BE SIZED AND SPACED TO AVOID SPLITTING OF THE LUMBER.



OPTION #2:

APPLY A 20 GAGE MINIMUM METAL INSERT WITH SLOTTED TEETH BETWEEN BUTTED ENDS OF COMPRESSION CHORD MEMBERS TO FULLY COVER THE JOINT BEARING AREA. HAMMER RIGID INSERT SECURELY IN PLACE AND FLUSH WITH BUTTED END.



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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09/24/2025
COA #0-278, Yoonhwak Kim, FL PE #96367
Florida Certificate of Product Approval #FL 1999

TC LL	PSF	REF RIGID INSERT
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG RIGINSRT1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

Gable Stud Reinforcement Detail for Stucco Cladding

ASCE 7-10: 160 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 140 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Dr: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
 Dr: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **		
	Spacing	Species			Grade	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	HF	#1 / #2	3' 4"	5' 9"	5' 11"	6' 9"	7' 0"	8' 1"	8' 5"	10' 7"	11' 0"	12' 8"	13' 2"	
			#3	3' 2"	5' 8"	5' 10"	6' 8"	6' 11"	8' 0"	8' 4"	10' 6"	10' 11"	12' 6"	13' 0"	
			Stud	3' 2"	5' 8"	5' 10"	6' 8"	6' 11"	8' 0"	8' 4"	10' 6"	10' 11"	12' 6"	13' 0"	
			Standard	3' 2"	4' 11"	5' 3"	6' 7"	6' 11"	8' 0"	8' 4"	10' 4"	10' 11"	12' 6"	13' 0"	
		SP	#1	3' 6"	5' 10"	6' 0"	6' 10"	7' 1"	8' 2"	8' 6"	10' 9"	11' 2"	12' 9"	13' 3"	
			#2	3' 4"	5' 9"	5' 11"	6' 9"	7' 0"	8' 1"	8' 5"	10' 7"	11' 0"	12' 8"	13' 2"	
	DFL	#3	3' 3"	5' 3"	5' 7"	6' 9"	7' 0"	8' 0"	8' 4"	10' 7"	11' 0"	12' 7"	13' 1"		
		Stud	3' 3"	5' 3"	5' 7"	6' 9"	7' 0"	8' 0"	8' 4"	10' 7"	11' 0"	12' 7"	13' 1"		
		Standard	3' 2"	4' 7"	4' 11"	6' 2"	6' 7"	8' 0"	8' 4"	9' 8"	10' 4"	12' 6"	13' 0"		
		16" O.C.	SPF	#1 / #2	3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"
				#3	3' 8"	6' 6"	6' 10"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
				Stud	3' 8"	6' 6"	6' 8"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
Standard	3' 8"			6' 1"	6' 5"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"		
SP	#1		4' 0"	6' 8"	6' 11"	7' 10"	8' 2"	9' 4"	9' 8"	12' 4"	12' 9"	14' 0"	14' 0"		
	#2		3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"		
12" O.C.	SPF	HF	#3	3' 9"	6' 5"	6' 9"	7' 8"	8' 0"	9' 2"	9' 7"	12' 1"	12' 7"	14' 0"	14' 0"	
			Stud	3' 9"	6' 5"	6' 9"	7' 8"	8' 0"	9' 2"	9' 7"	12' 1"	12' 7"	14' 0"	14' 0"	
			Standard	3' 8"	5' 8"	6' 0"	7' 6"	7' 11"	9' 1"	9' 6"	11' 10"	12' 6"	14' 0"	14' 0"	
			#1 / #2	4' 3"	7' 3"	7' 6"	8' 6"	8' 10"	9' 3"	10' 7"	13' 5"	13' 11"	14' 0"	14' 0"	
		SP	#3	4' 0"	7' 1"	7' 5"	8' 5"	8' 9"	10' 0"	10' 5"	13' 2"	13' 9"	14' 0"	14' 0"	
			Stud	4' 0"	7' 1"	7' 5"	8' 5"	8' 9"	10' 0"	10' 5"	13' 2"	13' 9"	14' 0"	14' 0"	
	DFL	#1	4' 0"	7' 0"	7' 5"	8' 5"	8' 9"	10' 0"	10' 5"	13' 2"	13' 9"	14' 0"	14' 0"		
		#2	4' 5"	7' 4"	7' 7"	8' 8"	9' 0"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"		
		#3	4' 3"	7' 3"	7' 6"	8' 6"	8' 10"	10' 2"	10' 7"	13' 5"	13' 11"	14' 0"	14' 0"		
		Stud	4' 2"	7' 2"	7' 5"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"		
		Standard	4' 2"	7' 2"	7' 5"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"		
		Standard	4' 0"	6' 6"	6' 11"	8' 5"	8' 9"	10' 0"	10' 5"	13' 2"	13' 9"	14' 0"	14' 0"		

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).
 ***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/360.
 Provide uplift connections for 75 plf over continuous bearing (5 psf TC Dead Load).
 Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X3
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

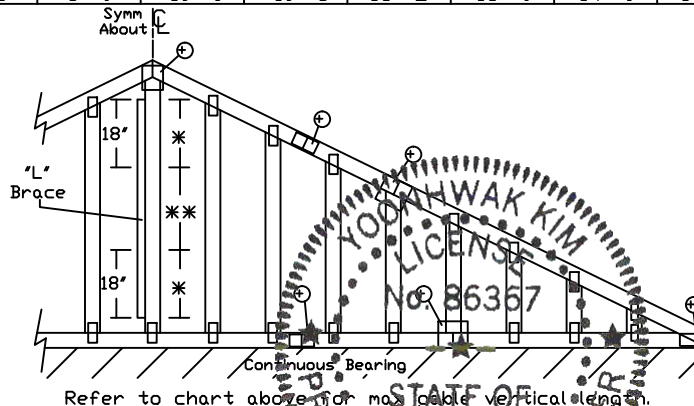
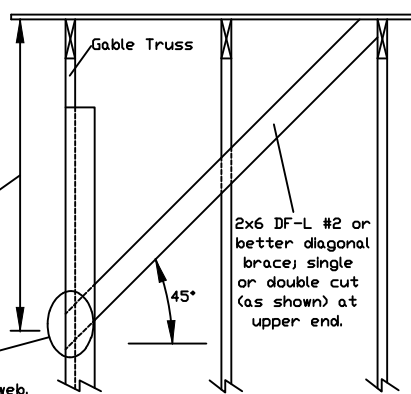
+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 600# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



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155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

09/24/2015 Yoonhwak Kim EIT #86367

Florida Certificate of Product Approval #FL 1999

REF ASCE7-10-GAB16015

DATE 8/3/15

DRWG S16015ENC100815

Gable Stud Reinforcement Detail for Stucco Cladding

ASCE 7-16: 160 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 140 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Dr: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
 Dr: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **		
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
24" O.C.	SPF	HF	#1 / #2	3' 4"	5' 9"	5' 11"	6' 9"	7' 0"	8' 1"	8' 5"	10' 7"	11' 0"	12' 8"	13' 2"	
			#3	3' 2"	5' 8"	5' 10"	6' 8"	6' 11"	8' 0"	8' 4"	10' 6"	10' 11"	12' 6"	13' 0"	
			Stud	3' 2"	5' 8"	5' 10"	6' 8"	6' 11"	8' 0"	8' 4"	10' 6"	10' 11"	12' 6"	13' 0"	
			Standard	3' 2"	4' 11"	5' 3"	6' 7"	6' 11"	8' 0"	8' 4"	10' 4"	10' 11"	12' 6"	13' 0"	
		SP	#1	3' 6"	5' 10"	6' 0"	6' 10"	7' 1"	8' 2"	8' 6"	10' 9"	11' 2"	12' 9"	13' 3"	
			#2	3' 4"	5' 9"	5' 11"	6' 9"	7' 0"	8' 1"	8' 5"	10' 7"	11' 0"	12' 8"	13' 2"	
	DFL	#3	3' 3"	5' 3"	5' 7"	6' 9"	7' 0"	8' 0"	8' 4"	10' 7"	11' 0"	12' 7"	13' 1"		
		Stud	3' 3"	5' 3"	5' 7"	6' 9"	7' 0"	8' 0"	8' 4"	10' 7"	11' 0"	12' 7"	13' 1"		
		Standard	3' 2"	4' 7"	4' 11"	6' 2"	6' 7"	8' 0"	8' 4"	9' 8"	10' 4"	12' 6"	13' 0"		
		16" O.C.	SPF	#1 / #2	3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"
				#3	3' 8"	6' 6"	6' 10"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
				Stud	3' 8"	6' 6"	6' 8"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
Standard	3' 8"			6' 1"	6' 5"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"		
SP	#1		4' 0"	6' 8"	6' 11"	7' 10"	8' 2"	9' 4"	9' 8"	12' 4"	12' 9"	14' 0"	14' 0"		
	#2		3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"		
12" O.C.	SPF	HF	#3	3' 9"	6' 5"	6' 9"	7' 8"	8' 0"	9' 2"	9' 7"	12' 1"	12' 7"	14' 0"	14' 0"	
			Stud	3' 9"	6' 5"	6' 9"	7' 8"	8' 0"	9' 2"	9' 7"	12' 1"	12' 7"	14' 0"	14' 0"	
			Standard	3' 8"	5' 8"	6' 0"	7' 6"	7' 11"	9' 1"	9' 6"	11' 10"	12' 6"	14' 0"	14' 0"	
			#1 / #2	4' 3"	7' 3"	7' 6"	8' 6"	8' 10"	9' 3"	10' 7"	13' 5"	13' 11"	14' 0"	14' 0"	
		SP	#3	4' 0"	7' 1"	7' 5"	8' 5"	8' 9"	10' 0"	10' 5"	13' 2"	13' 9"	14' 0"	14' 0"	
			Stud	4' 0"	7' 1"	7' 5"	8' 5"	8' 9"	10' 0"	10' 5"	13' 2"	13' 9"	14' 0"	14' 0"	
	DFL	HF	Standard	4' 0"	7' 0"	7' 5"	8' 5"	8' 9"	10' 0"	10' 5"	13' 2"	13' 9"	14' 0"	14' 0"	
			#1	4' 5"	7' 4"	7' 7"	8' 8"	9' 0"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"	
			#2	4' 3"	7' 3"	7' 6"	8' 6"	8' 10"	10' 2"	10' 7"	13' 5"	13' 11"	14' 0"	14' 0"	
			#3	4' 2"	7' 2"	7' 5"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"	
		SP	Stud	4' 2"	7' 2"	7' 5"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"	
			Standard	4' 0"	6' 6"	6' 11"	8' 5"	8' 9"	10' 0"	10' 5"	13' 2"	13' 9"	14' 0"	14' 0"	

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).
 ***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/360.
 Provide uplift connections for 75 plf over continuous bearing (5 psf TC Dead Load).
 Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
 ** For (2) 'L' brace: 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"	2X3
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

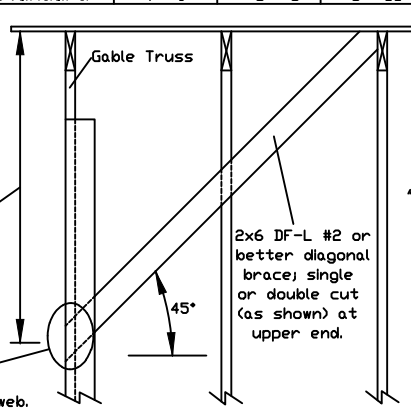
+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

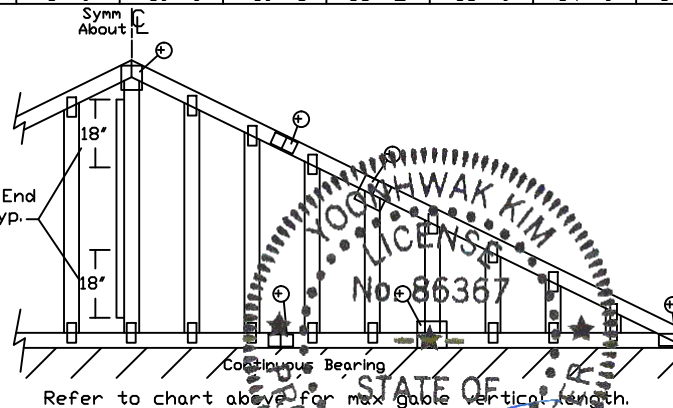
Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 600# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



'L' Brace End Zones, typ.



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 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.

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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



155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025 Yoonhwak Kim, FL No. 86367

Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB16015

DATE 01/26/2018

DRWG S16015ENC160118

Gable Stud Reinforcement Detail for Stucco Cladding

ASCE 7-10: 160 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 MPH Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Or: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
 Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF HF	#1 / #2	3' 2"	5' 6"	5' 8"	6' 5"	6' 8"	7' 8"	8' 0"	10' 1"	10' 6"	12' 0"	12' 6"	
		#3	3' 1"	5' 5"	5' 7"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 5"	
		Stud	3' 1"	5' 4"	5' 7"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 5"	
		Standard	3' 1"	4' 7"	4' 11"	6' 2"	6' 7"	7' 7"	7' 11"	9' 8"	10' 4"	11' 11"	12' 5"	
		#1	3' 4"	5' 6"	5' 9"	6' 6"	6' 9"	7' 9"	8' 1"	10' 3"	10' 8"	12' 2"	12' 8"	
		#2	3' 2"	5' 6"	5' 8"	6' 5"	6' 8"	7' 8"	8' 0"	10' 1"	10' 6"	12' 0"	12' 6"	
	SP DFL	#3	3' 2"	4' 10"	5' 2"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	12' 0"	12' 5"	
		Stud	3' 2"	4' 10"	5' 2"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	12' 0"	12' 5"	
		Standard	3' 1"	4' 3"	4' 7"	5' 8"	6' 1"	7' 7"	7' 11"	8' 11"	9' 7"	11' 11"	12' 5"	
		#1 / #2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"	
		#3	3' 6"	6' 2"	6' 6"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
		Stud	3' 6"	6' 2"	6' 5"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
16" O.C.	SPF HF	Standard	3' 6"	5' 8"	6' 0"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
		#1	3' 10"	6' 4"	6' 7"	7' 6"	7' 9"	8' 11"	9' 3"	11' 9"	12' 2"	13' 11"	14' 0"	
		#2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"	
		#3	3' 7"	5' 11"	6' 4"	7' 4"	7' 7"	8' 9"	9' 1"	11' 6"	11' 11"	13' 8"	14' 0"	
		Stud	3' 7"	5' 11"	6' 4"	7' 4"	7' 7"	8' 9"	9' 1"	11' 6"	11' 11"	13' 8"	14' 0"	
		Standard	3' 6"	5' 3"	5' 7"	7' 0"	7' 6"	8' 8"	9' 1"	11' 0"	11' 9"	13' 7"	14' 0"	
	SP DFL	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 9"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
		#3	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		Stud	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		Standard	3' 10"	6' 6"	6' 11"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		#1	4' 3"	7' 0"	7' 3"	8' 3"	8' 6"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"	
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
12" O.C.	SPF HF	#3	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Stud	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Standard	3' 10"	6' 1"	6' 5"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		#1	4' 3"	7' 0"	7' 3"	8' 3"	8' 6"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"	
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
		#3	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
SP DFL	Stud	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"		
	Standard	3' 10"	6' 1"	6' 5"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"		

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3	Stud	#3	Stud
	Standard		Standard

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).
 ***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/360.
 Provide uplift connections for 135 plf over continuous bearing (5 psf TC Dead Load).
 Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) 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"	2X4
Greater than 4' 0", but less than 12' 0"	4X4

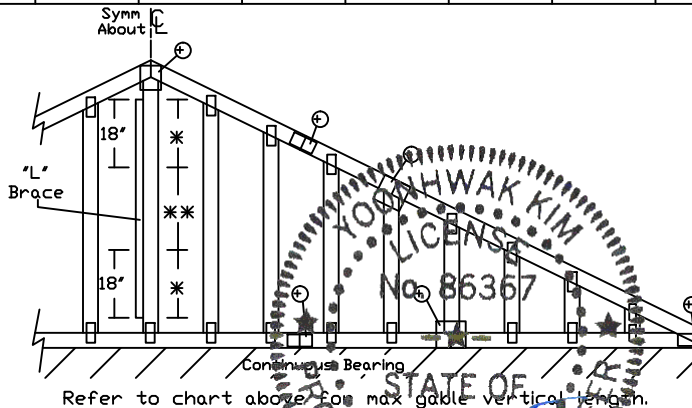
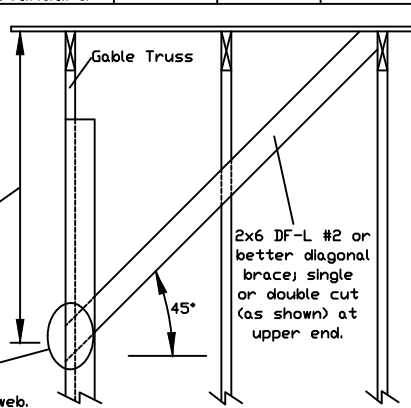
+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 690# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025

COA#0-278, Yoonhwak Kim, FL #86367
 Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

MAX SPACING 24.0'

REF ASCE7-10-GAB16030

DATE 8/3/15

DRWG S16030ENC100815

Gable Stud Reinforcement Detail for Stucco Cladding

ASCE 7-16: 160 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 MPH Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Or: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
 Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace *	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF HF DFL	#1 / #2	3' 2"	5' 6"	5' 8"	6' 5"	6' 8"	7' 8"	8' 0"	10' 1"	10' 6"	12' 0"	12' 6"	
		#3	3' 1"	5' 5"	5' 7"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 5"	
		Stud	3' 1"	5' 4"	5' 7"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 5"	
		Standard	3' 1"	4' 7"	4' 11"	6' 2"	6' 7"	7' 7"	7' 11"	9' 8"	10' 4"	11' 11"	12' 5"	
		#1	3' 4"	5' 6"	5' 9"	6' 6"	6' 9"	7' 9"	8' 1"	10' 3"	10' 8"	12' 2"	12' 8"	
		#2	3' 2"	5' 6"	5' 8"	6' 5"	6' 8"	7' 8"	8' 0"	10' 1"	10' 6"	12' 0"	12' 6"	
		#3	3' 2"	4' 10"	5' 2"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	12' 0"	12' 5"	
		Stud	3' 2"	4' 10"	5' 2"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	12' 0"	12' 5"	
	SP DFL	Standard	3' 1"	4' 3"	4' 7"	5' 8"	6' 1"	7' 7"	7' 11"	8' 11"	9' 7"	11' 11"	12' 5"	
		#1 / #2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"	
		#3	3' 6"	6' 2"	6' 6"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
		Stud	3' 6"	6' 2"	6' 6"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
16" O.C.	SPF HF DFL	Standard	3' 6"	5' 8"	6' 0"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
		#1	3' 10"	6' 4"	6' 7"	7' 6"	7' 9"	8' 11"	9' 3"	11' 9"	12' 2"	13' 11"	14' 0"	
		#2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"	
		#3	3' 7"	5' 11"	6' 4"	7' 4"	7' 7"	8' 9"	9' 1"	11' 6"	11' 11"	13' 8"	14' 0"	
		Stud	3' 7"	5' 11"	6' 4"	7' 4"	7' 7"	8' 9"	9' 1"	11' 6"	11' 11"	13' 8"	14' 0"	
		Standard	3' 6"	5' 3"	5' 7"	7' 0"	7' 6"	8' 8"	9' 1"	11' 0"	11' 9"	13' 7"	14' 0"	
		#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 9"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
		#3	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
	SP DFL	Stud	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		Standard	3' 10"	6' 6"	6' 11"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		#1	4' 3"	7' 0"	7' 3"	8' 3"	8' 6"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"	
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
12" O.C.	SPF HF DFL	#3	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Stud	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Standard	3' 10"	6' 1"	6' 5"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 9"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
		#3	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		Stud	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		Standard	3' 10"	6' 6"	6' 11"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		#1	4' 3"	7' 0"	7' 3"	8' 3"	8' 6"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"	
	SP DFL	#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
		#3	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Stud	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Standard	3' 10"	6' 1"	6' 5"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3	Stud	#3	Stud
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1	Stud	#1	Stud
#2	Standard	#2	Standard

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/360.

Provide uplift connections for 135 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

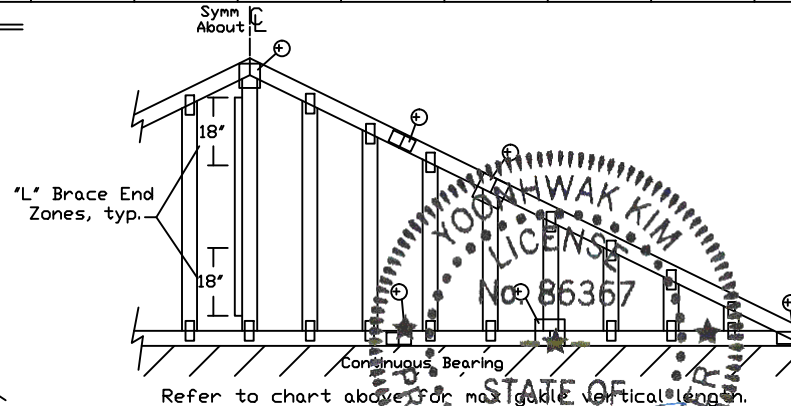
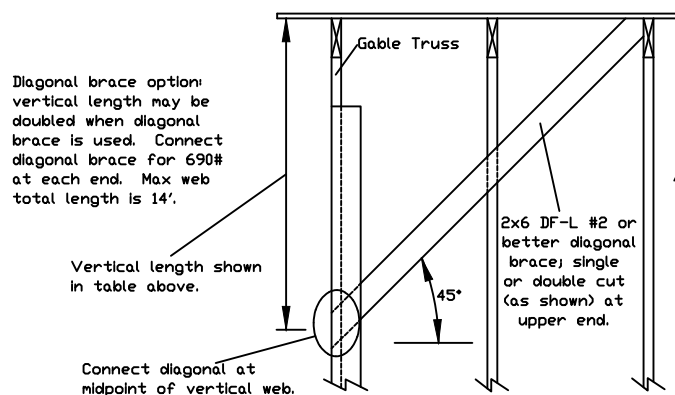
* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
 ** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes		
Vertical Length	No Splice	
Less than 4' 0"	2X4	
Greater than 4' 0", but less than 12' 0"	4X4	

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



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 North Building, 4th Floor
 Glenview, IL 60025

09/24/2025
 COA#0-278, Yoonhwak Kim, FL #86367

Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

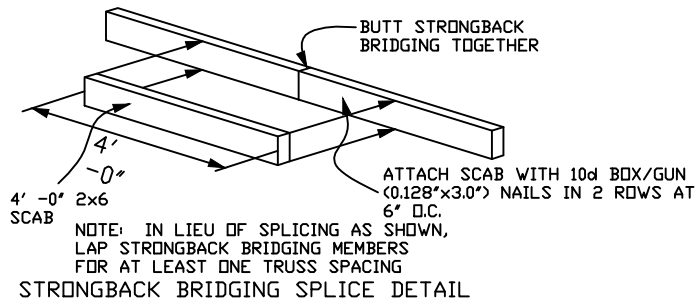
MAX. SPACING 24.0'

REF ASCE7-16-GAB16030

DATE 01/26/2018

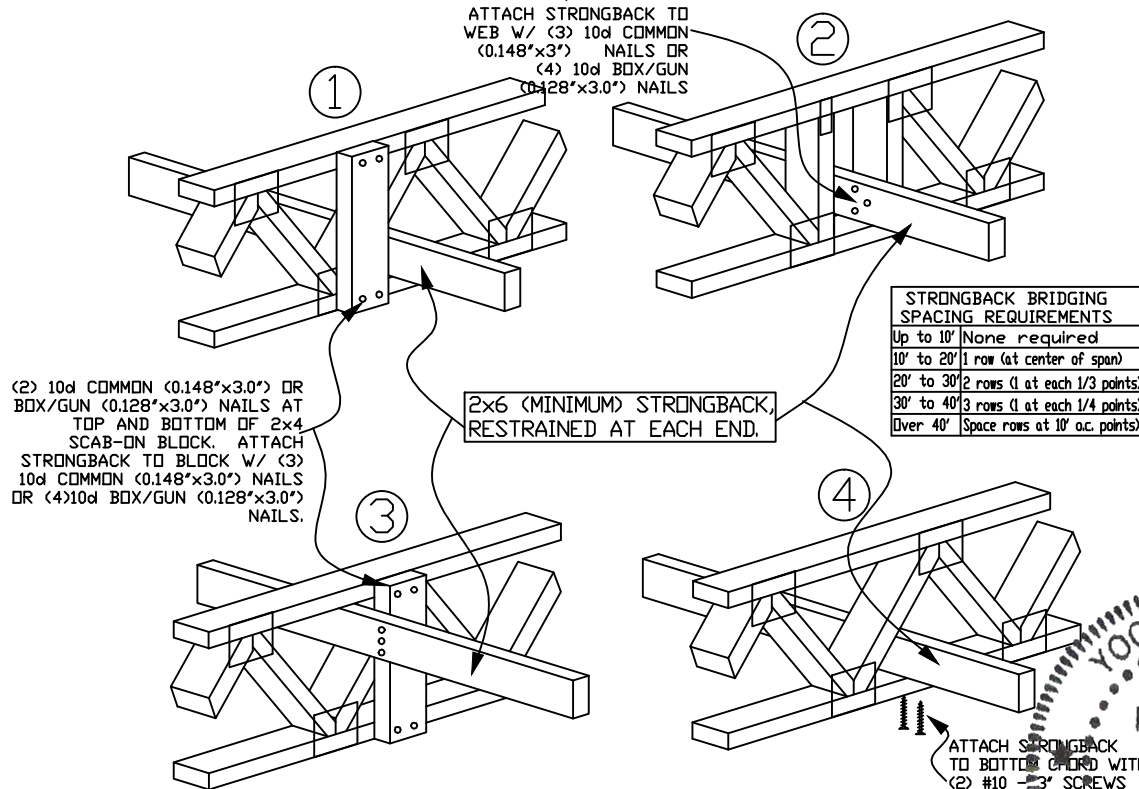
DRWG S16030ENC160118

STRONGBACK BRIDGING RECOMMENDATIONS



- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' - 0" o.c. (max.)

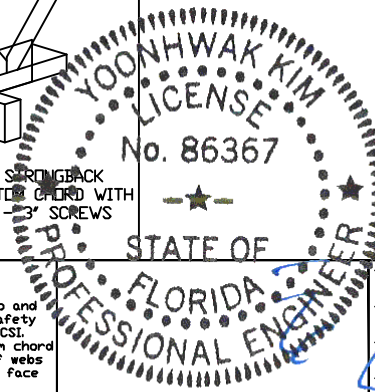
NOTE: Details 1 and 2 are the preferred attachment methods



- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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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

TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Valley Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

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 #3, 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
 ASCE 7-10 160 mph. 30' Mean Height, Enclosed
 Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
 Or
 ASCE 7-10 140 mph. 30' Mean Height, Enclosed
 Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut
 as shown.

Valleys short enough to be cut as solid triangular
 members from a single 2x6, or larger as required,
 shall be permitted in lieu of fabricating from
 separate 2x4 members.

All plates shown are ITW BCG Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical
 valley webs taller than 7'-9" apply 2x4 "T" reinforcement, 80% length of
 web, same species and grade or better, attached with 10d box
 (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous
 Lateral Restraint applied at mid-length of web is permitted with diagonal
 bracing as shown in DRWG BRCLBANC1014.

Top chord of truss beneath valley set must be braced with:
 properly attached, rated sheathing applied prior to valley truss
 installation.

Or

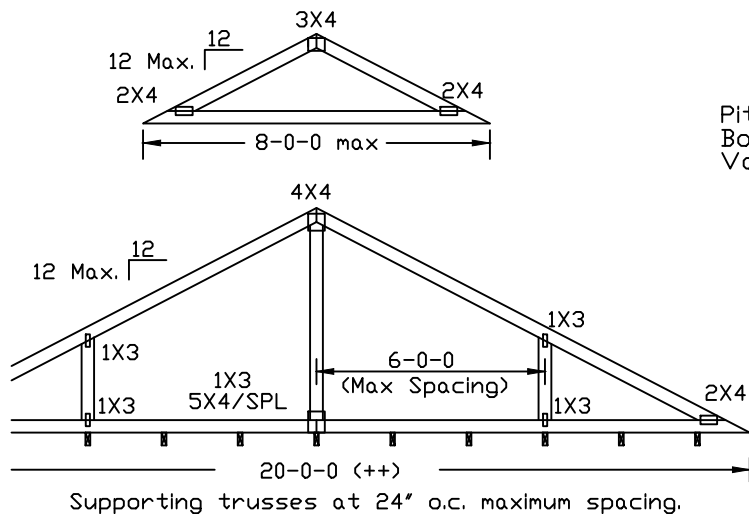
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

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".**



Pitched Cut
 Bottom Chord
 Valley

Valley
 Spacing

Toe-nailed
 **

Square Cut
 Bottom Chord
 Valley

Stubbed Valley
 End Detail

Optional Hip
 Joint Detail

Common
 at 24" o.c.

Valley Set
 at 24" o.c.

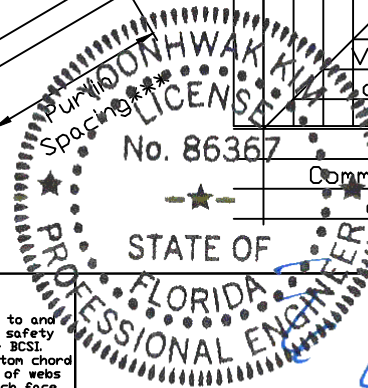
Common Trusses
 at 24" o.c.

Partial Framing
 Plan



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 shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs
 shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. Apply plates to each face
 of truss and position as shown above and on the Joint Details, unless noted otherwise.
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09/24/2015

COA#0-278, Yoonhwak Kim, FL

Florida Certificate of Product Approval #FL 1999

TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7 PSF	DATE	10/01/2014
BC DL	10	10	10 PSF	DRWG	VAL160101014
BC LL	0	0	0 PSF		
TOT. LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING			24.0"		

Valley Detail - ASCE 7-16: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

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 #3, SPF #1/#2, DF-L #2 or better.

**** Attach each valley to every supporting truss with:**
 535# connection or with (1) Simpson H2.5A or
 equivalent connector for
 ASCE 7-16 180 mph. 30' Mean Height, Part. Enc.
 Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
 Or
 ASCE 7-16 160 mph. 30' Mean Height, Part. Enc.
 Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

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 as shown.

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 members from a single 2x6, or larger as required,
 shall be permitted in lieu of fabricating from
 separate 2x4 members.

All plates shown are Alpine Wave Plates.

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 valley webs taller than 7'-9" apply 2x4 "T" reinforcement, 80% length of
 web, same species and grade or better, attached with 10d box
 (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous
 Lateral Restraint applied at mid-length of web is permitted with diagonal
 bracing as shown in DRWG BRCLBANC1014.

Top chord of truss beneath valley set must be braced with:
 properly attached, rated sheathing applied prior to valley truss
 installation.

Or

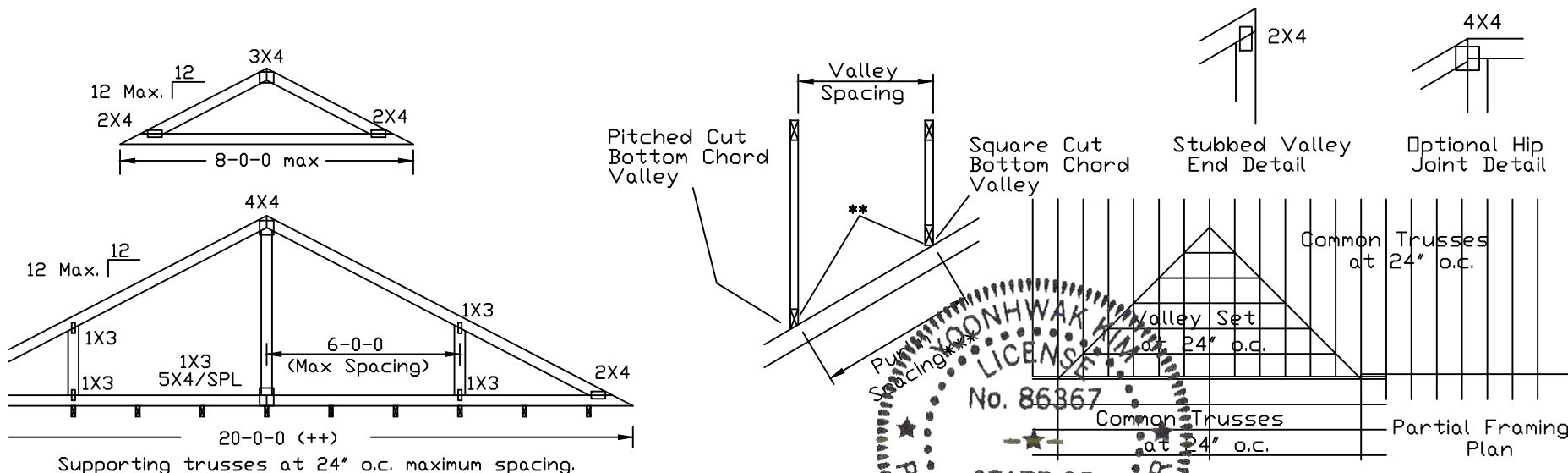
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

Or

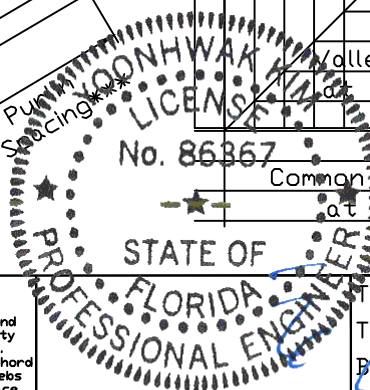
By valley trusses used in lieu of purlin spacing as specified on
 Engineer's sealed design.

***** 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
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09/24/2025
 COA#0-278, Yoonhwak Kim,

Florida Certificate of Product Approval #FL 1999

TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7PSF	DATE	01/26/2018
BC DL	10	10	10 PSF	DRWG	VAL180160118
BC LL	0	0	0PSF		
TOT. LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING	67	24.0"			

Valley Detail - ASCE 7-22: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

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 #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
 535# connection or with (1) Simpson H2.5A or
 equivalent connector for
 ASCE 7-22 180 mph. 30' Mean Height, Part. Enc.
 Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
 Or
 ASCE 7-22 160 mph. 30' Mean Height, Part. Enc.
 Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut
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 Lateral Restraint applied at mid-length of web is permitted with diagonal
 bracing as shown in DRWG BRCLBANC1014.

Top chord of truss beneath valley set must be braced with:
 properly attached, rated sheathing applied prior to valley truss
 installation.

Or

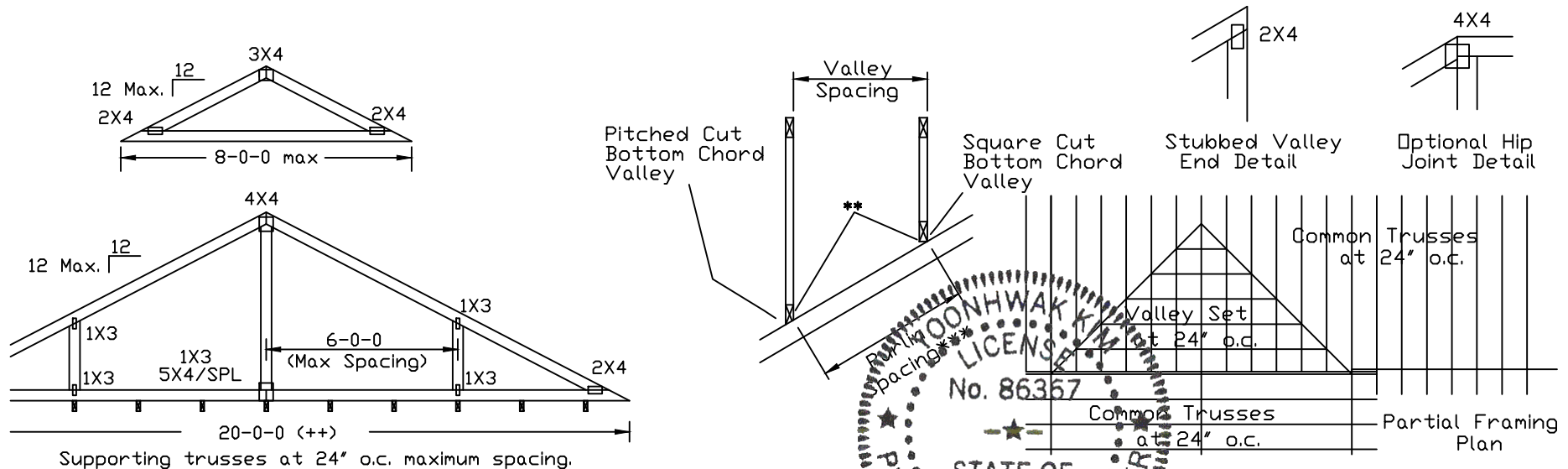
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

Or

By valley trusses used in lieu of purlin spacing as specified on
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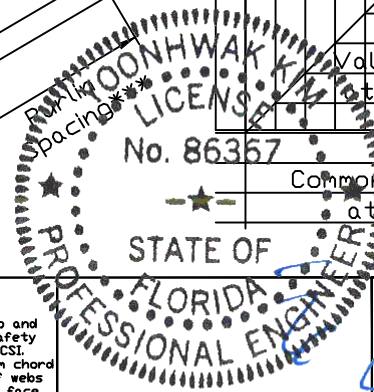
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TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7PSF	DATE	07/03/2023
BC DL	10	10	10 PSF	DRWG	VAL180220723
BC LL	0	0	0PSF		
TOT. LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING			24.0"		

09/24/2025
 COA#0-278, Yoonhwak Kim, FLS 86357
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Valley Detail - ASCE 7-16: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

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 #3, 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
 ASCE 7-16, 30' Mean Height, Enclosed Building, Exp. C,
 Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on
 supporting truss material at connection location:
 170 mph for SP (G = 0.55, min.),
 155 mph for DF-L (G = 0.50, min.), or
 120 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses
 below valley trusses.

Bottom chord of valley trusses may be square or
 pitched cut as shown.

Valleys short enough to be cut as solid triangular
 members from a single 2x6, or larger as required,
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 Lateral Restraint applied at mid-length of web is permitted with diagonal
 bracing as shown in DRWG BRCLBANC1014.

Top chord of truss beneath valley set must be braced with:
 properly attached, rated sheathing applied prior to valley truss
 installation.

Or

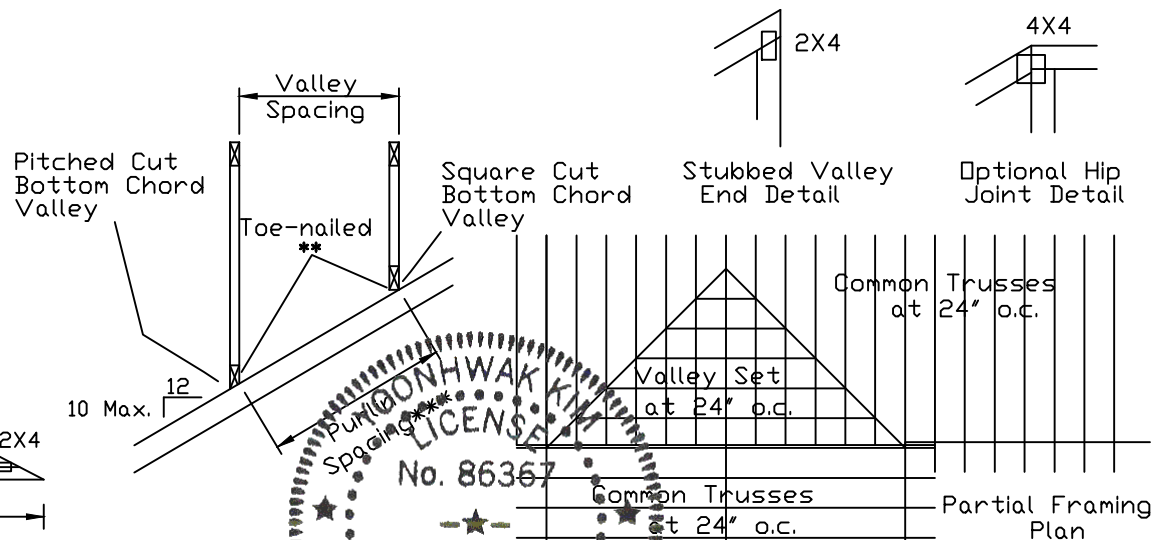
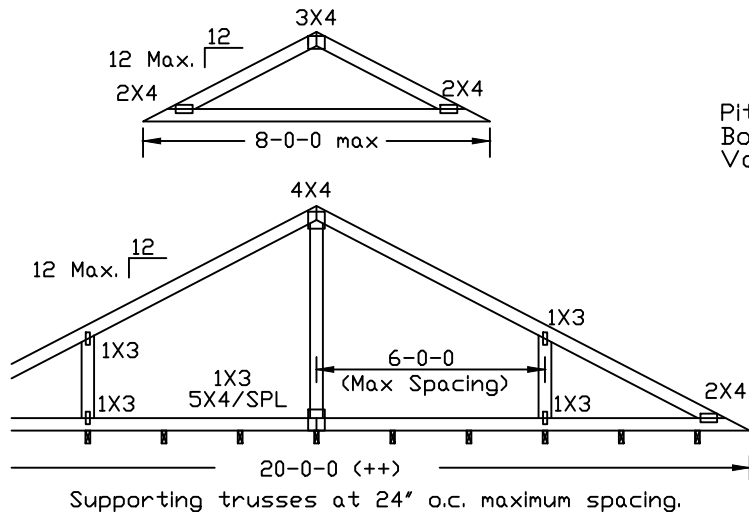
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

Or

By valley trusses used in lieu of purlin spacing as specified on
 Engineer's sealed design.

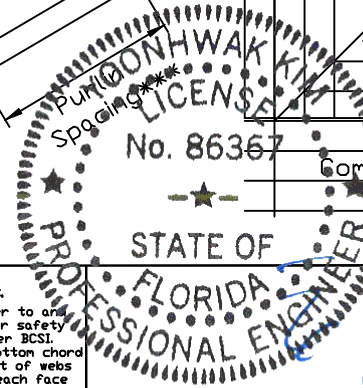
*** Note that the purlin spacing for bracing the top chord of the truss
 beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does
 not exceed 14'-0".



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TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7 PSF	DATE	01/26/2018
BC DL	10	10	10 PSF	DRWG	VALTN160118
BC LL	0	0	0 PSF		
TOT. LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING			24.0"		

Valley Detail - ASCE 7-22: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

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 #3, SPF #1/#2, DF-L #2 or better.

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 ASCE 7-22, 30' Mean Height, Enclosed Building, Exp. C,
 Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on
 supporting truss material at connection location:
 140 mph for SP (G = 0.55, min.),
 125 mph for DF-L (G = 0.50, min.), or
 105 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses
 below valley trusses.

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 installation.

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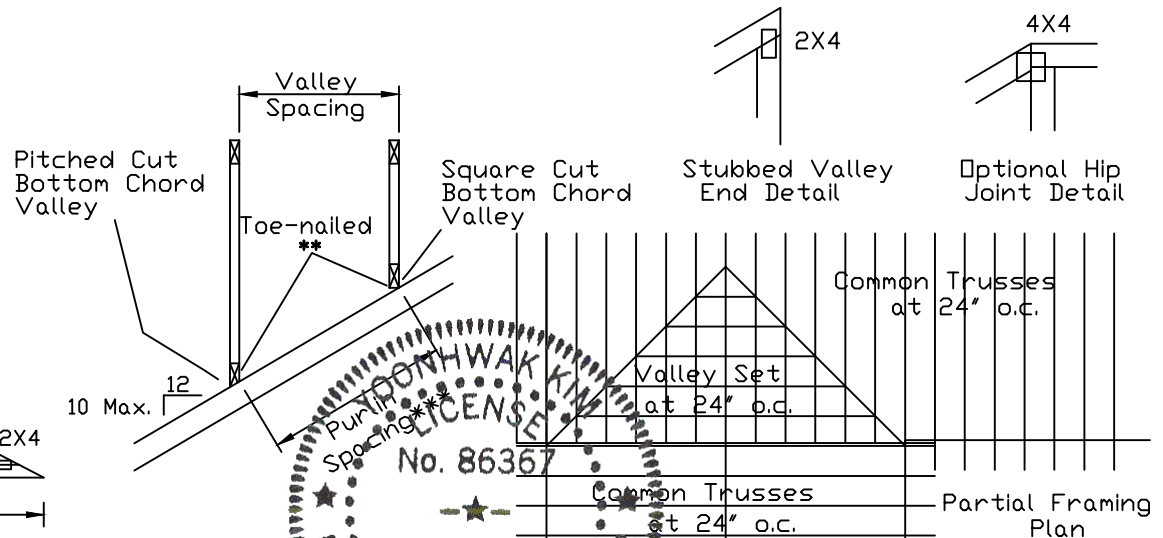
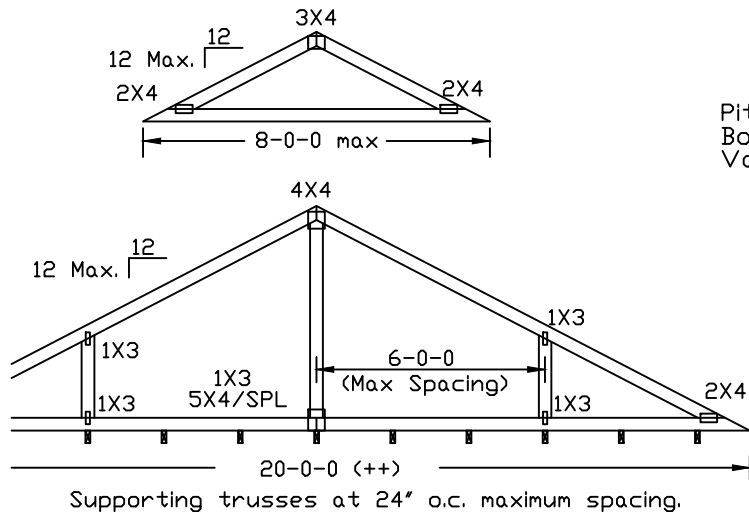
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Or

By valley trusses used in lieu of purlin spacing as specified on
 Engineer's sealed design.

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 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".



ALPINE
 AN ITW COMPANY

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TC LL	30	30	40PSF	REF	VALLEY DETAIL
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BC LL	0	0	0 PSF		
TOT. LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING			24.0"		

NAIL REINFORCEMENT FOR PLATE DETAIL

This detail may be used when the required number of connector teeth in a truss member exceeds the actual number of teeth in the given member. Nails may be driven through the connector plate(s) in truss members using the nail type specified below to increase the lateral resistance of the connector plate(s) having a shortage of required effective teeth.

Nail Type

Duo-Fast CS157 1.5" x 0.105" Smooth Shank Coil Nail

Material	Connector Plates	Substitution
SP, DF-L, HF, SPF (SG >= 0.42)	Alpine 20-gage Wave	1 Nail replaces 2 teeth
	Alpine 20-gage H	1 Nail replaces 2 teeth
	Alpine 18-gage S	1 Nail replaces 2 teeth

Nail Type

0.131" x 1.5" Box or Gun Nail

Material	Connector Plates	Substitution
SP, DF-L, HF, SPF (SG >= 0.42)	Alpine 20-gage Wave	1 Nail replaces 3 teeth
	Alpine 20-gage H	1 Nail replaces 3 teeth
	Alpine 18-gage S	1 Nail replaces 3 teeth

Nails shall be driven through solid steel at a distance no closer than 1 inch to the joint line. Nails may also be driven through the tooth slots, but shall be located at the end of the slot farthest from the joint line.

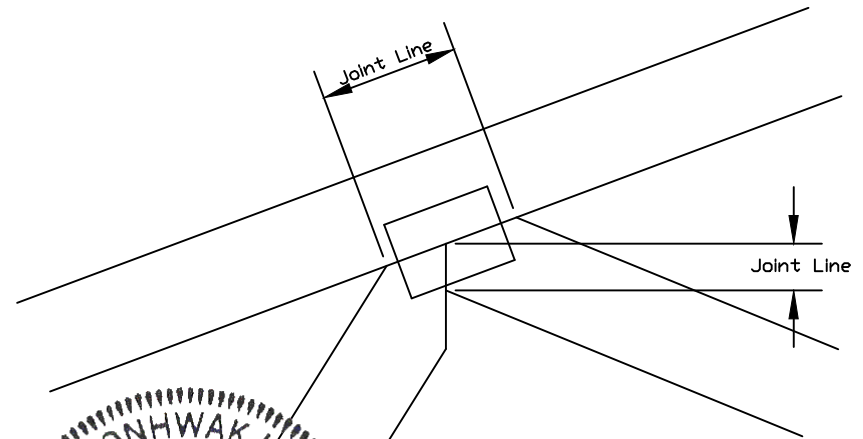
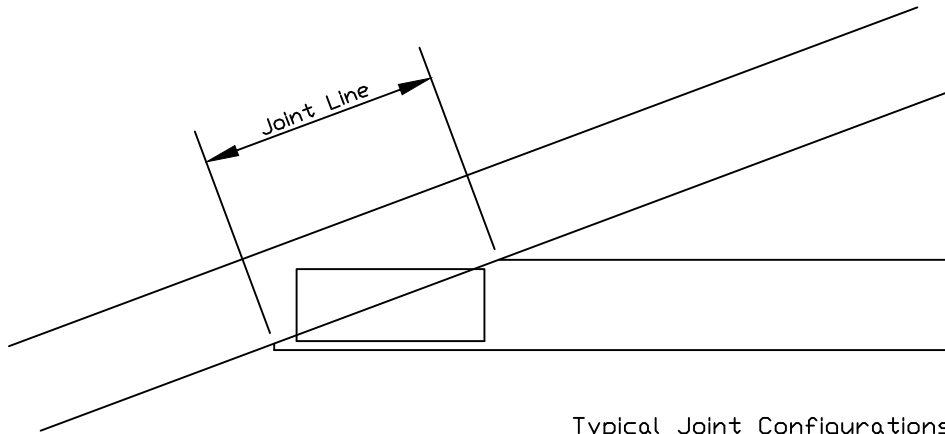
Use a maximum of 2 nails per square inch of plate area.

Nails shall be driven through connector plate having shortage of required effective teeth. Nails may be driven through connector plate on each face of joint if each plate has a shortage of required effective teeth.

Nails shall be fully embedded into wood areas free of defects.

This detail is applicable only on joints where the connector plate has been offset no more than 1/2" from the design position shown on the truss design drawing.

This detail is applicable for trusses with lumber oriented vertically (2x_) and trusses with lumber oriented horizontally (3x2 and 4x2).



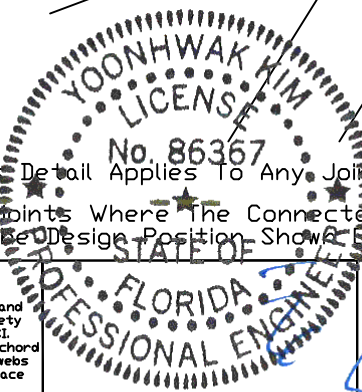
Typical Joint Configurations. This Detail Applies To Any Joint Configuration.

This Detail Is Applicable Only On Joints Where The Connector Plate Has Been Offset No More Than 1/2" From The Design Position Shown On The Truss Design Drawing.



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
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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



REF	NAIL REINFORCEMENT
DATE	10/01/14
DRWG	REPPLTNL1014

09/24/2025
COA#0-270, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

Gable Stud Reinforcement Detail for Stucco Cladding

ASCE 7-10: 200 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

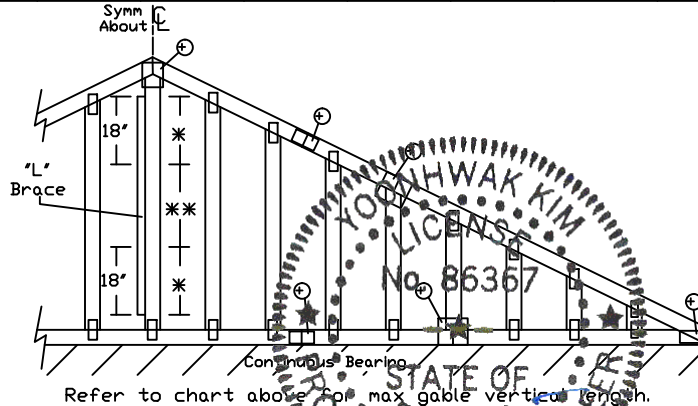
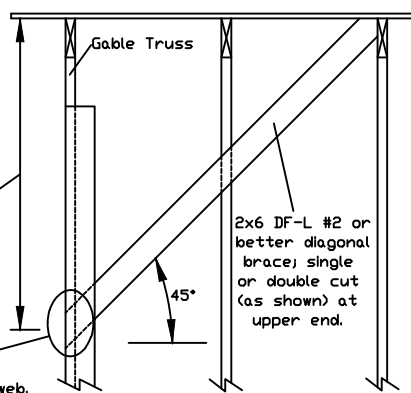
Or: 200 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 180 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **		
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
24" O.C.	SPF HF	#1 / #2	2' 6"	4' 4"	4' 6"	5' 1"	5' 3"	6' 1"	6' 4"	8' 0"	8' 3"	9' 6"	9' 10"		
		#3	2' 5"	3' 9"	4' 0"	5' 0"	5' 3"	6' 0"	6' 3"	7' 10"	8' 2"	9' 5"	9' 9"		
		Stud	2' 5"	3' 9"	4' 0"	5' 0"	5' 3"	6' 0"	6' 3"	7' 10"	8' 2"	9' 5"	9' 9"		
		Standard	2' 5"	3' 3"	3' 5"	4' 4"	4' 7"	5' 10"	6' 3"	6' 9"	7' 3"	9' 2"	9' 9"		
		SP DFL	#1	2' 8"	4' 4"	4' 6"	5' 2"	5' 4"	6' 1"	6' 4"	8' 1"	8' 5"	9' 7"	10' 0"	
			#2	2' 6"	4' 3"	4' 6"	5' 1"	5' 3"	6' 1"	6' 4"	8' 0"	8' 3"	9' 6"	9' 10"	
			#3	2' 6"	3' 5"	3' 7"	4' 6"	4' 10"	6' 0"	6' 3"	7' 1"	7' 7"	9' 5"	9' 10"	
			Stud	2' 6"	3' 5"	3' 7"	4' 6"	4' 10"	6' 0"	6' 3"	7' 1"	7' 7"	9' 5"	9' 10"	
	Standard	2' 4"	3' 0"	3' 2"	4' 0"	4' 3"	5' 5"	5' 9"	6' 3"	6' 8"	8' 6"	9' 1"			
		16" O.C.	SPF HF	#1 / #2	2' 11"	4' 11"	5' 1"	5' 10"	6' 1"	6' 11"	7' 3"	9' 2"	9' 6"	10' 10"	11' 4"
				#3	2' 9"	4' 7"	5' 1"	5' 9"	6' 0"	6' 10"	7' 2"	9' 0"	9' 4"	10' 9"	11' 2"
				Stud	2' 9"	4' 7"	4' 11"	5' 9"	6' 0"	6' 10"	7' 2"	9' 0"	9' 4"	10' 9"	11' 2"
Standard	2' 9"			3' 11"	4' 2"	5' 3"	5' 7"	6' 10"	7' 2"	8' 3"	8' 10"	10' 9"	11' 2"		
SP DFL	#1		3' 0"	5' 0"	5' 2"	5' 11"	6' 1"	7' 0"	7' 3"	9' 3"	9' 7"	11' 0"	11' 5"		
	#2		2' 11"	4' 11"	5' 1"	5' 10"	6' 1"	6' 11"	7' 3"	9' 2"	9' 6"	10' 10"	11' 4"		
	#3		2' 10"	4' 2"	4' 5"	5' 6"	5' 11"	6' 11"	7' 2"	8' 8"	9' 3"	10' 10"	11' 3"		
	Stud		2' 10"	4' 2"	4' 5"	5' 6"	5' 11"	6' 11"	7' 2"	8' 8"	9' 3"	10' 10"	11' 3"		
Standard	2' 9"	3' 8"	3' 11"	4' 11"	5' 3"	6' 7"	7' 1"	7' 8"	8' 3"	10' 5"	11' 2"				
	12" O.C.	SPF HF	#1 / #2	3' 2"	5' 5"	5' 7"	6' 5"	6' 8"	6' 11"	7' 11"	10' 1"	10' 5"	11' 11"	12' 5"	
			#3	3' 0"	5' 4"	5' 7"	6' 4"	6' 7"	7' 6"	7' 10"	9' 11"	10' 4"	11' 10"	12' 4"	
			Stud	3' 0"	5' 4"	5' 7"	6' 4"	6' 7"	7' 6"	7' 10"	9' 11"	10' 4"	11' 10"	12' 4"	
Standard			3' 0"	4' 7"	4' 10"	6' 1"	6' 6"	7' 6"	7' 10"	9' 6"	10' 2"	11' 10"	12' 4"		
SP DFL		#1	3' 4"	5' 6"	5' 8"	6' 6"	6' 9"	7' 8"	8' 0"	10' 2"	10' 7"	12' 1"	12' 7"		
		#2	3' 2"	5' 5"	5' 7"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	11' 11"	12' 5"		
		#3	3' 1"	4' 10"	5' 1"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 4"		
		Stud	3' 1"	4' 10"	5' 1"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 4"		
Standard	3' 0"	4' 3"	4' 6"	5' 8"	6' 0"	7' 6"	7' 10"	8' 10"	9' 6"	11' 10"	12' 4"				

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 1000# at each end. Max web total length is 10'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max gable vertical length.

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/360.

Provide uplift connections for 275 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 3' 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 3' 0"	3X4
Greater than 3' 0", but less than 6' 0"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



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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

09/24/2025
COA#0-278, Yoonhwak Kim, FL#86367
Florida Certificate of Product Approval #FL 1999

MAX. TOT. LD. 60 PSF

REF ASCE7-10-GAB20030

DATE 8/3/15

DRWG S20030END100815

SPACING 24.0"