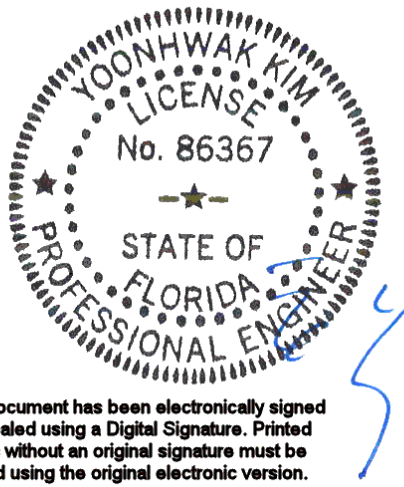




Alpine, an ITW Company
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)755-6001
www.alpineitw.com

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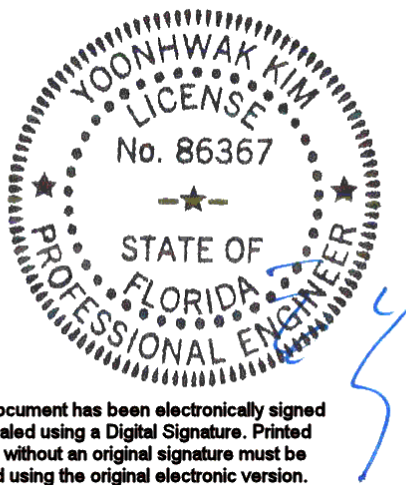
07/20/2023

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 23-9417
Job Description: Elfers	
Address:	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 22.02.00 JRef #: 1XRI2150003
Wind Standard: ASCE 7-16 Wind Speed (mph): 130 Building Type: Closed	Design Loading (psf): 37.00

This package contains general notes pages, 63 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	201.23.0740.12287	A01	2	201.23.0740.15843	A02
3	201.23.0740.18553	A03	4	201.23.0740.26050	A04
5	201.23.0740.34387	A05	6	201.23.0740.41813	A06
7	201.23.0740.48180	A07	8	201.23.0740.55563	A08
9	201.23.0741.03170	A09	10	201.23.0741.09177	A10
11	201.23.0741.16053	A11	12	201.23.0741.38303	A12
13	201.23.0741.46883	A13	14	201.23.0741.49170	A14
15	201.23.0741.51433	A15	16	201.23.0741.53860	A16
17	201.23.0741.56197	A17	18	201.23.0757.22927	A18
19	201.23.0757.25003	A19	20	201.23.0757.26640	A20
21	201.23.0757.52377	A21	22	201.23.0757.54910	B01
23	201.23.0757.58363	B02	24	201.23.0758.00043	B03
25	201.23.0758.04763	B04	26	201.23.0758.06740	B05
27	201.23.0758.08793	B06	28	201.23.0758.57467	B07
29	201.23.0759.40843	C01	30	201.23.0759.48653	C02
31	201.23.0759.58970	C03	32	201.23.0800.17267	C04
33	201.23.0800.34243	D01	34	201.23.0800.36027	D02
35	201.23.0800.48000	FG01	36	201.23.0800.49980	G01
37	201.23.0800.52713	G02	38	201.23.0802.29513	G03
39	201.23.0802.31440	H01	40	201.23.0802.33027	H02
41	201.23.0802.38637	HJ01	42	201.23.0803.02060	HJ02
43	201.23.0803.05037	J01	44	201.23.0803.06503	J02
45	201.23.0803.08237	J03	46	201.23.0803.10400	J04
47	201.23.0803.11980	J05	48	201.23.0803.13773	J06
49	201.23.0803.15997	J07	50	201.23.0803.17970	J08



This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.



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 155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025
 Phone: (800)755-6001
www.alpineitw.com

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07/20/2023

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	Job Number: 23-9417
Job Description: Elfers	
Address:	

Item	Drawing Number	Truss
51	201.23.0803.24673	J09
53	201.23.0803.41710	M02
55	201.23.0804.23953	M04
57	201.23.0804.29263	PB01
59	201.23.0805.00323	PB03
61	201.23.0805.04947	V02
63	201.23.0805.10113	V04
65	A14030ENC160118	
67	A14015ENC160118	
69	VAL180160118	

Item	Drawing Number	Truss
52	201.23.0803.26753	M01
54	201.23.0804.12040	M03
56	201.23.0804.26143	M05
58	201.23.0804.31227	PB02
60	201.23.0805.02747	V01
62	201.23.0805.06343	V03
64	BRCLBSUB0119	
66	GBLLETIN0118	
68	PB160160118	
70	VALTN160118	

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.

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.

General Notes (continued)

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.

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-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-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).

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.

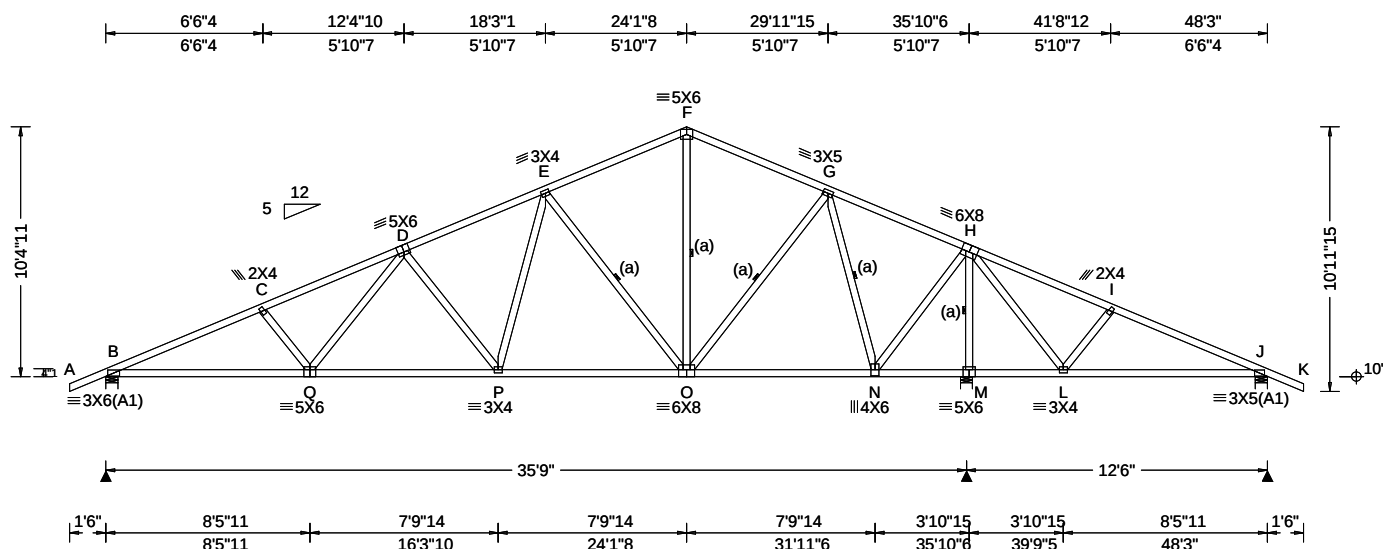
Refer to ASCE-7 for Wind and Seismic abbreviations.

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: 466030 FROM: CDM	COMN Ply: 1 Qty: 4	Job Number: 23-9417 Elfers Truss Label: A01	Cust: R 215 JRef: 1XRI2150003 T24 DrwNo: 201.23.0740.12287 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.05 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.159 D 999 240 VERT(CL): 0.281 D 999 180 HORZ(LL): 0.048 N - - HORZ(TL): 0.086 N - - Creep Factor: 2.0 Max TC CSI: 0.615 Max BC CSI: 0.803 Max Web CSI: 0.688 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1420 /- /- /799 /160 /293 M 2508 /- /- /1103 /184 /- J 332 /-97 /- /244 /115 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.7 (Truss) M Brg Wid = 6.0 Min Req = 3.0 J Brg Wid = 6.0 Min Req = 1.5 Bearings B, M, & J are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

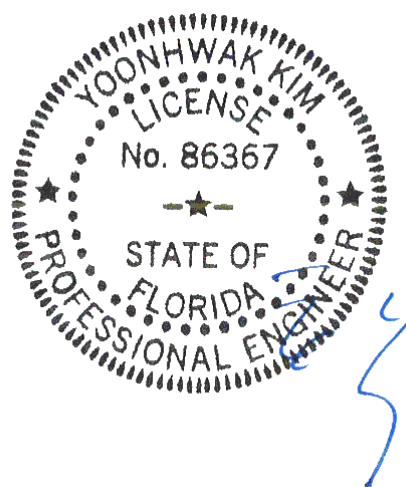
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

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.

The overall height of this truss excluding overhang is 10-4 1/4\"/>

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



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Q	2512 -414	N - M	148 -906
Q - P	2037 -303	M - L	146 -879
P - O	1520 -196	L - J	125 -556
O - N	545 -5		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - D	505 -63	O - G	707 -117
D - P	149 -563	G - N	133 -1229
P - E	721 -74	N - H	1805 -110
E - O	193 -918	M - H	194 -2499
F - O	480 -51	H - L	570 -75

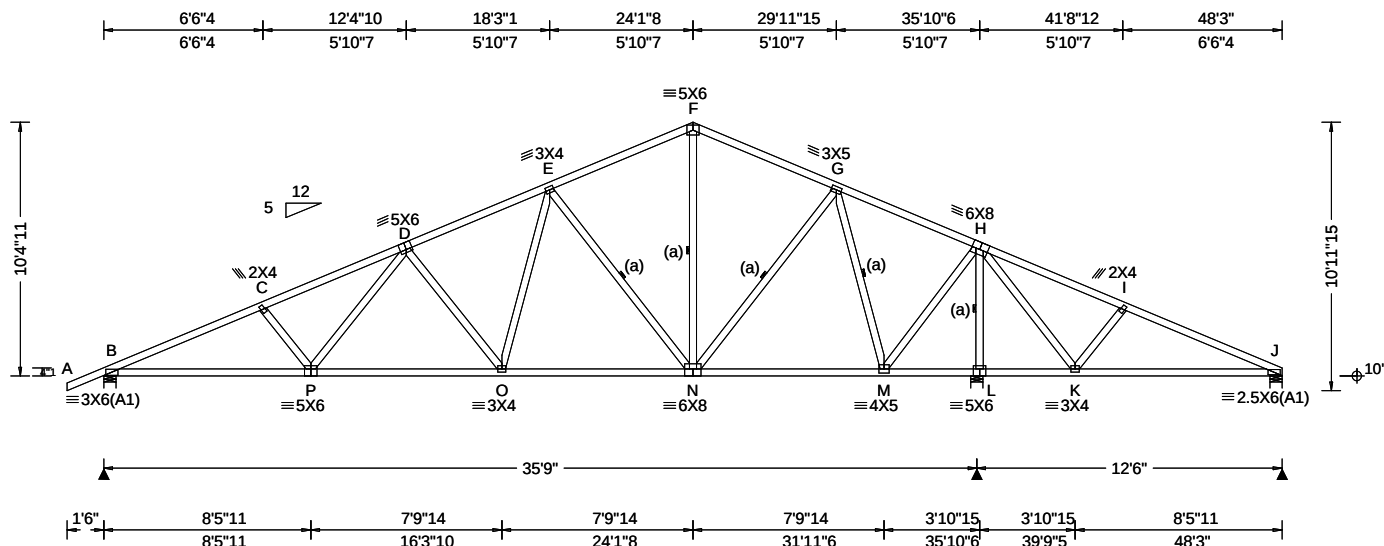
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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. 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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North Building, 4th Floor
Glenview, IL 60025

SEQN: 466031 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A02	Cust: R 215 JRef: 1XRI2150003 T35 DrwNo: 201.23.0740.15843 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.05 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.135 D 999 240 VERT(CL): 0.254 D 999 180 HORZ(LL): 0.040 M - - HORZ(TL): 0.077 M - - Creep Factor: 2.0 Max TC CSI: 0.617 Max BC CSI: 0.784 Max Web CSI: 0.586 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1336 /- /- /800 /159 /281 L 2264 /- /- /1108 /188 /- J 276 /-92 /- /168 /97 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) L Brg Wid = 6.0 Min Req = 2.7 J Brg Wid = 6.0 Min Req = 1.5 Bearings B, L, & J are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

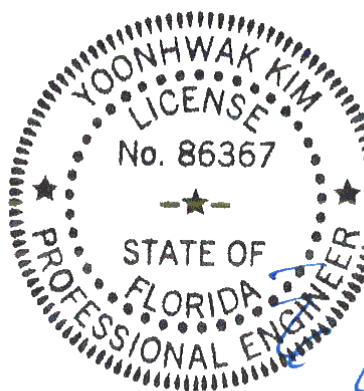
(a) Continuous lateral restraint equally spaced on member.

Wind

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

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.
The overall height of this truss excluding overhang is 10-4-11.



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Florida Department of Agriculture and Consumer Services
Florida Department of Agriculture and Consumer Services

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	307 -2577	F - G	166 -948
C - D	299 -2378	H - I	593 -141
D - E	228 -1669	I - J	534 -191
E - F	155 -947		

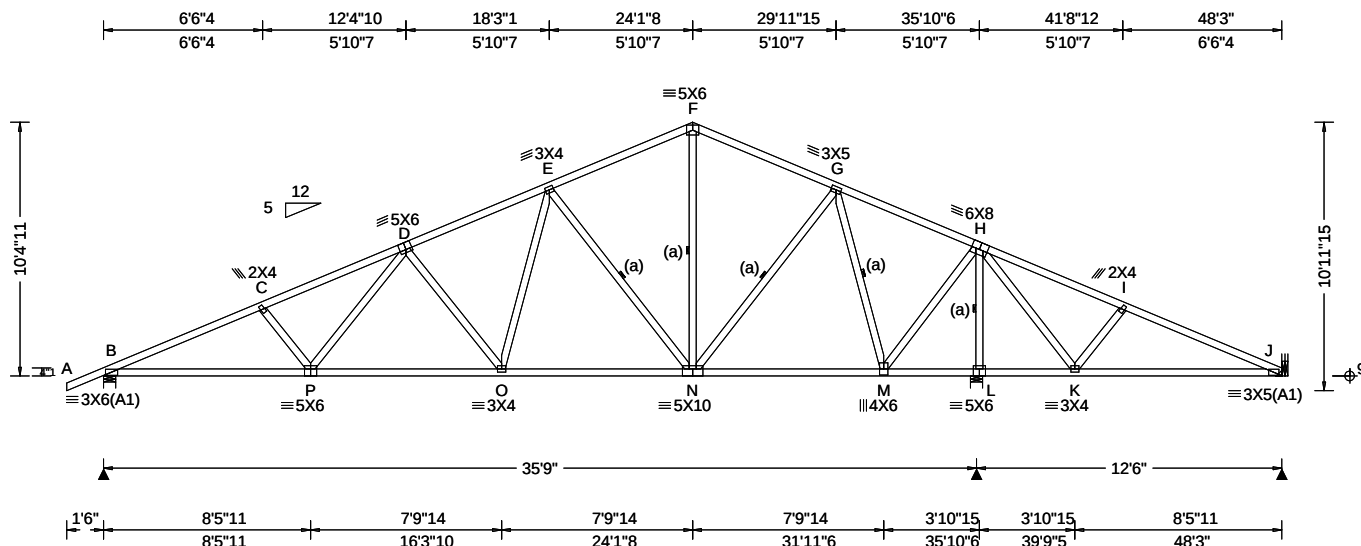
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - P	2322 -395	M - L	133 -807
P - O	1833 -284	L - K	131 -783
O - N	1332 -176	K - J	155 -468
N - M	453 0		

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs 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. Refer to job's General Notes page for additional information.
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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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North Building, 4th Floor
Glenview, IL 60025

SEQN: 466032 FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 23-9417 Elfers Truss Label: A03	Cust: R 215 JRef: 1XRI2150003 T67 DrwNo: 201.23.0740.18553 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.158 D 999 240 VERT(CL): 0.281 D 999 180 HORZ(LL): 0.048 M - - HORZ(TL): 0.085 M - - Creep Factor: 2.0 Max TC CSI: 0.641 Max BC CSI: 0.803 Max Web CSI: 0.687 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1420 - / - / - /799 /158 /281 L 2512 - / - / - /1112 /237 - / - J 238 - /128 - / - /165 /97 - / - Non-Gravity B Brg Wid = 6.0 Min Req = 1.7 (Truss) L Brg Wid = 6.0 Min Req = 3.0 J Brg Wid = - Min Req = - Bearings B & L are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(j) Hanger Support Required, by others

Loading

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

Wind

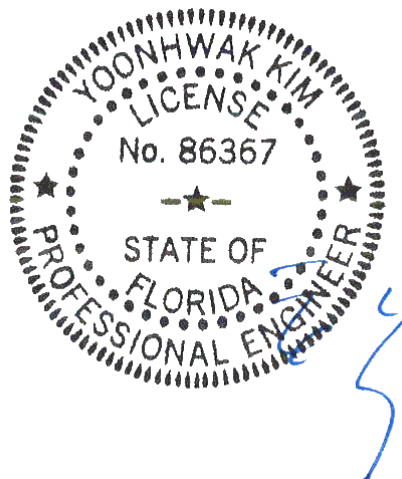
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

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.

The overall height of this truss excluding overhang is 10'-4 1/8\"/>



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 7000275

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	306 -2782	F - G	183 -1101
C - D	298 -2583	H - I	685 -140
D - E	228 -1896	I - J	625 -175
E - F	183 -1100		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - P	2511 -394	M - L	148 -902
P - O	2036 -284	L - K	145 -875
O - N	1519 -176	K - J	154 -552
N - M	545 0		

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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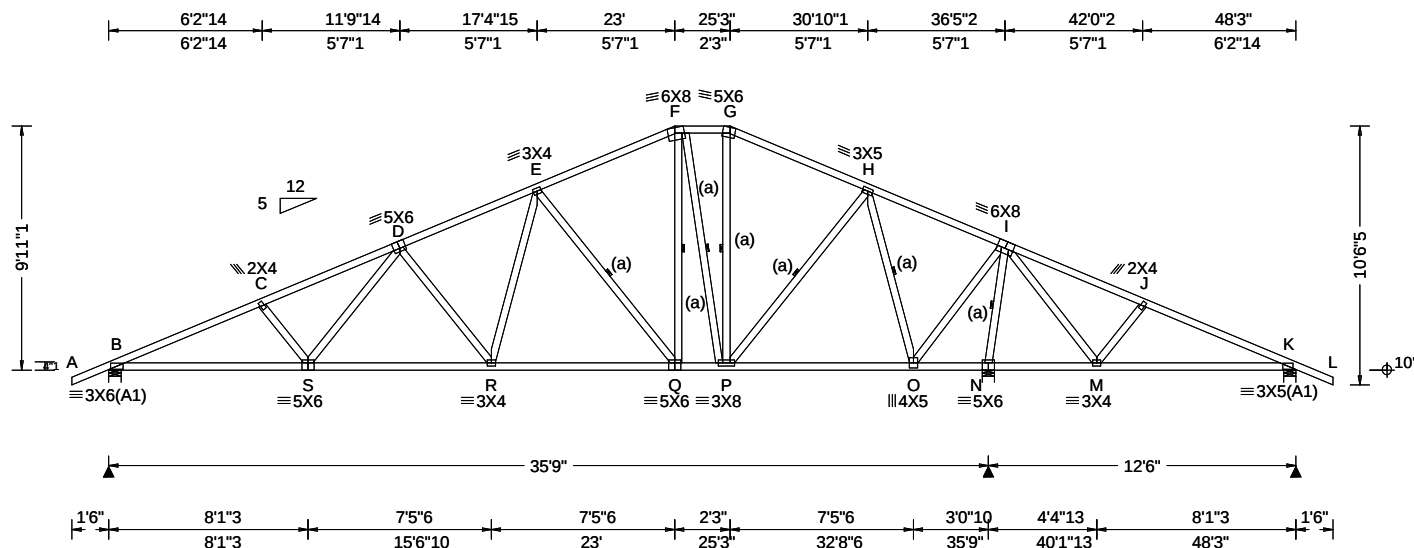
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



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

SEQN: 466033 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A04	Cust: R 215 JRef: 1XRI2150003 T23 DrwNo: 201.23.0740.26050 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.140 D 999 240 VERT(CL): 0.262 D 999 180 HORZ(LL): 0.040 O - - HORZ(TL): 0.077 O - - Creep Factor: 2.0 Max TC CSI: 0.520 Max BC CSI: 0.732 Max Web CSI: 0.634 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1340 /- /- /803 /163 /281 N 2243 /- /- /1093 /187 /- K 378 /-37 /- /256 /114 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) N Brg Wid = 6.0 Min Req = 2.6 K Brg Wid = 6.0 Min Req = 1.5 Bearings B, N, & K are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

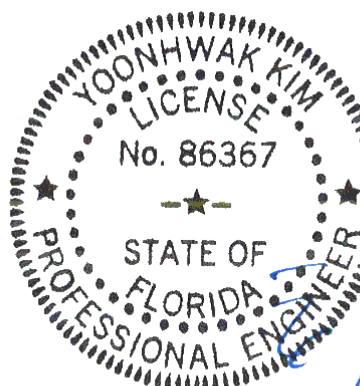
Wind loading based on both gable and hip roof types.

Additional Notes

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.

The overall height of this truss excluding overhang is 9-11-1.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	2345 -412	O - N	161 -1015
S - R	1889 -309	N - M	137 -690
R - Q	1413 -206	M - K	147 -408
Q - P	908 -96		

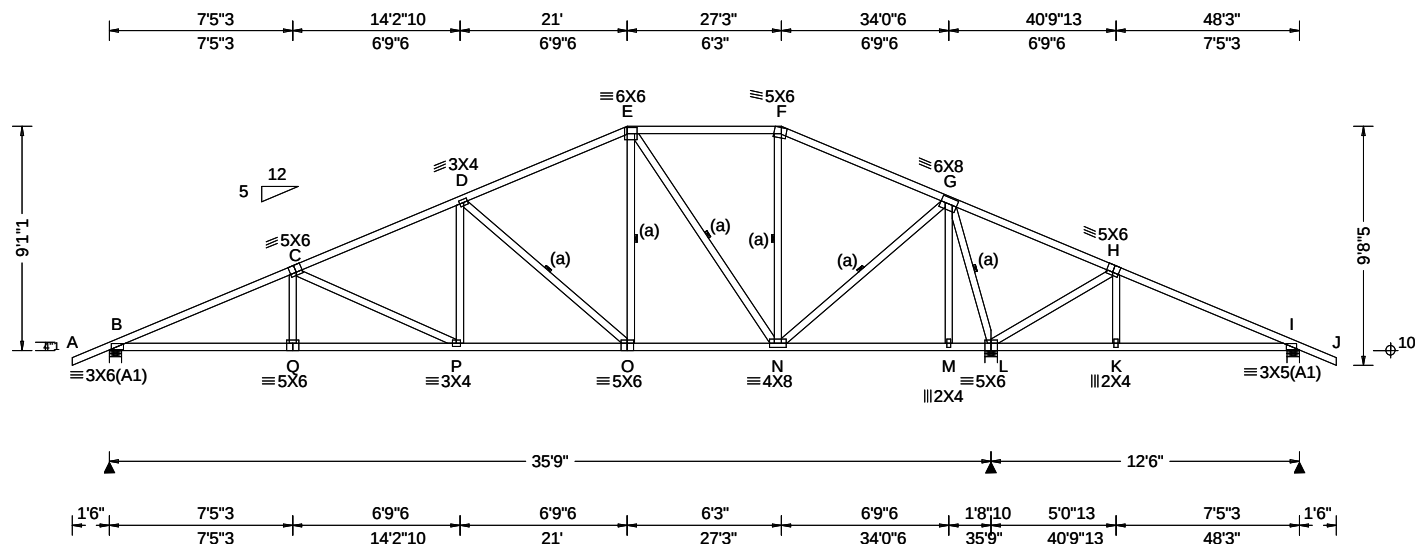
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - D	475 -59	P - H	727 -98
D - R	142 -542	H - O	142 -1246
R - E	609 -69	O - I	1665 -120
E - Q	179 -822	N - I	196 -2218
F - Q	716 -113	I - M	532 -69
F - P	164 -564		

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCE: sbcecomponents.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: 466034 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A05	Cust: R 215 JRef: 1XRI2150003 T22 DrwNo: 201.23.0740.34387 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.132 P 999 240 VERT(CL): 0.248 P 999 180 HORZ(LL): 0.042 N - - HORZ(TL): 0.080 N - - Creep Factor: 2.0 Max TC CSI: 0.664 Max BC CSI: 0.661 Max Web CSI: 0.678 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1325 - / - / - / 797 / 168 / 259 L 2276 - / - / - / 1113 / 190 / - I 365 - / 71 / - / 241 / 122 / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) L Brg Wid = 6.0 Min Req = 2.7 I Brg Wid = 6.0 Min Req = 1.5 Bearings B, L, & I are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

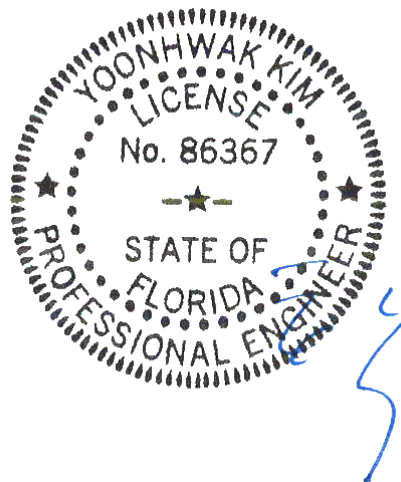
Wind loading based on both gable and hip roof types.

Additional Notes

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.

The overall height of this truss excluding overhang is 9'-1".

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Q	2268 -375	O - N	1069 -121
Q - P	2264 -376	L - K	125 -501
P - O	1673 -249	K - I	127 -497

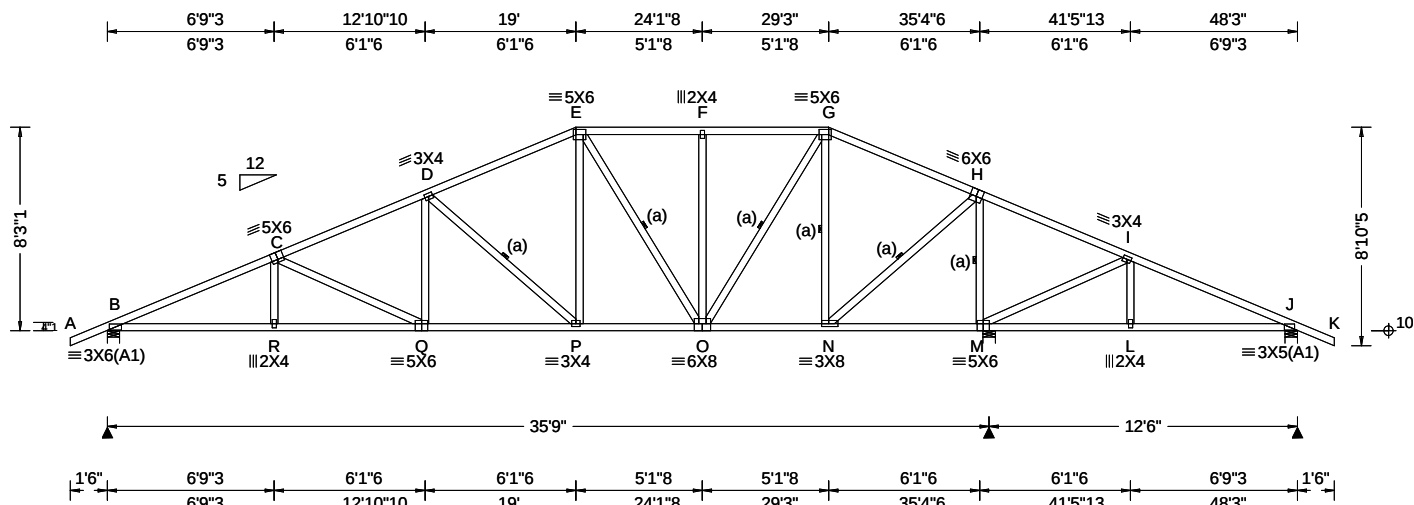
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	141 -639	E - N	149 -707
P - D	482 -19	N - G	1249 -115
D - O	172 -811	G - L	160 -1960
E - O	666 -77	L - H	135 -650

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466035 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A06	Cust: R 215 JRef: 1XRI2150003 T21 DrwNo: 201.23.0740.41813 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.135 Q 999 240 VERT(CL): 0.253 Q 999 180 HORZ(LL): 0.041 N - - HORZ(TL): 0.078 N - - Creep Factor: 2.0 Max TC CSI: 0.582 Max BC CSI: 0.614 Max Web CSI: 0.584 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1318 -/- /791 /171 /237 M 2274 -/- /1117 /199 -/- J 366 -/55 -/242 /118 -/- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) M Brg Wid = 6.0 Min Req = 2.7 J Brg Wid = 6.0 Min Req = 1.5 Bearings B, M, & J are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

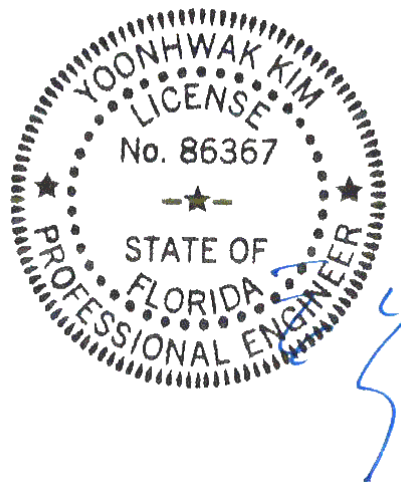
Wind loading based on both gable and hip roof types.

Additional Notes

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.

The overall height of this truss excluding overhang is 8-3-1.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
07/20/2023
Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	326 -2537	F - G	188 -968
C - D	281 -1992	G - H	133 -578
D - E	229 -1393	H - I	931 -67
E - F	188 -968	I - J	495 -180

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - Q	124 -556	O - G	930 -133
Q - D	429 -17	G - N	126 -910
D - P	156 -728	N - H	1534 -136
E - P	606 -70	H - M	191 -1870
E - O	111 -491	M - I	133 -657

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

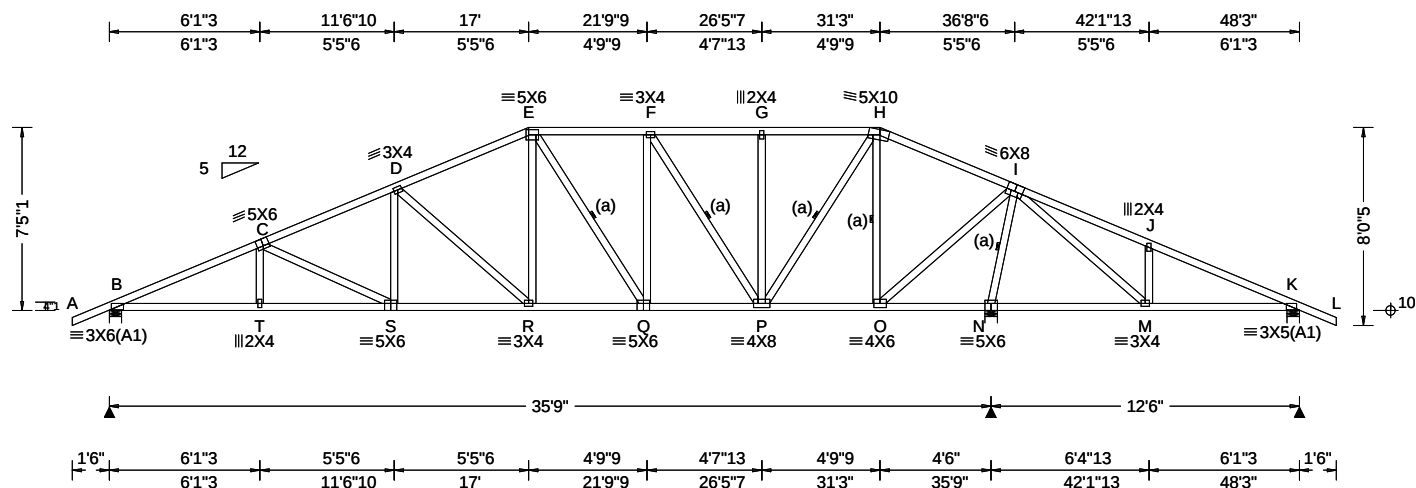
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466036 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A07	Cust: R 215 JRef: 1XRI2150003 T20 DrwNo: 201.23.0740.48180 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.141 S 999 240 VERT(CL): 0.265 S 999 180 HORZ(LL): 0.043 O - - HORZ(TL): 0.083 O - - Creep Factor: 2.0 Max TC CSI: 0.369 Max BC CSI: 0.595 Max Web CSI: 0.699 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1332 /- /- /792 /174 /216 N 2274 /- /- /1113 /209 /- K 357 /-58 /- /234 /114 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) N Brg Wid = 6.0 Min Req = 2.7 K Brg Wid = 6.0 Min Req = 1.5 Bearings B, N, & K are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

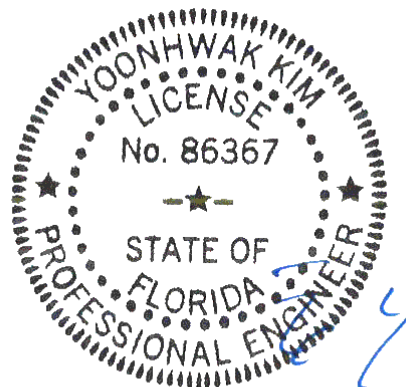
Wind loading based on both gable and hip roof types.

Additional Notes

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.

The overall height of this truss excluding overhang is 7'-5-1.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida State Seal of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - T	2341 -342	Q - P	1268 -93
T - S	2338 -343	O - N	171 -1166
S - R	1903 -246	N - M	129 -716
R - Q	1426 -143	M - K	137 -420

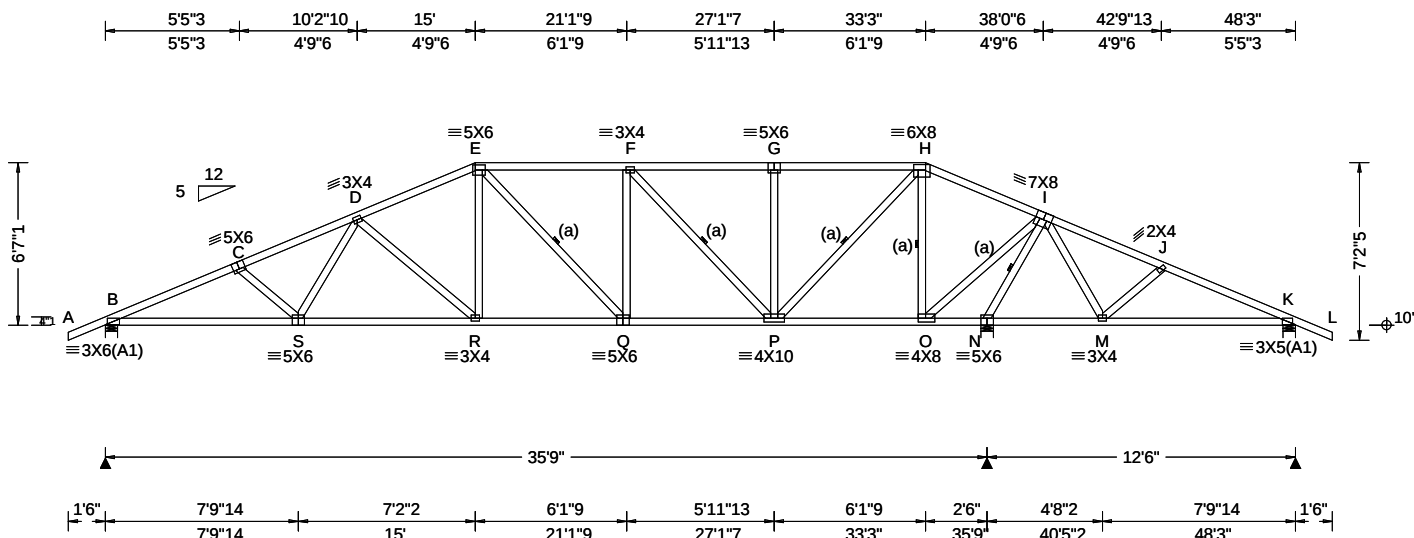
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - S	108 -471	P - H	1134 -145
S - D	380 -16	H - O	141 -1129
D - R	139 -645	O - I	1835 -173
E - R	538 -62	N - I	246 -2204
F - P	99 -697	I - M	686 -122

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

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

SEQN: 466037 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A08	Cust: R 215 JRef: 1XRI2150003 T19 DrwNo: 201.23.0740.55563 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.149 R 999 240 VERT(CL): 0.279 R 999 180 HORZ(LL): 0.044 P - - HORZ(TL): 0.084 P - - Creep Factor: 2.0 Max TC CSI: 0.407 Max BC CSI: 0.707 Max Web CSI: 0.830 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1339 - / - / 791 / 173 / 194 N 2240 - / - / 1080 / 306 - / - K 380 - / 38 - / 251 / 108 - / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) N Brg Wid = 6.0 Min Req = 2.6 K Brg Wid = 6.0 Min Req = 1.5 Bearings B, N, & K are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

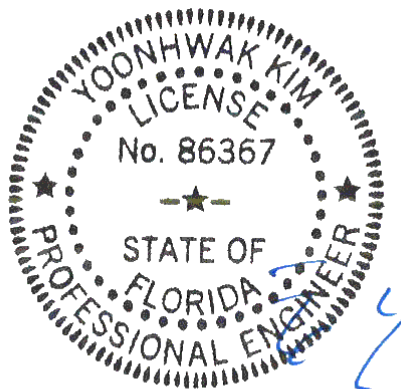
Wind loading based on both gable and hip roof types.

Additional Notes

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.

The overall height of this truss excluding overhang is 6'-7-1.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	2371 -325	O - N	292 -1724
S - R	2019 -242	N - M	133 -574
R - Q	1628 -148	M - K	192 -387
Q - P	1514 -139		

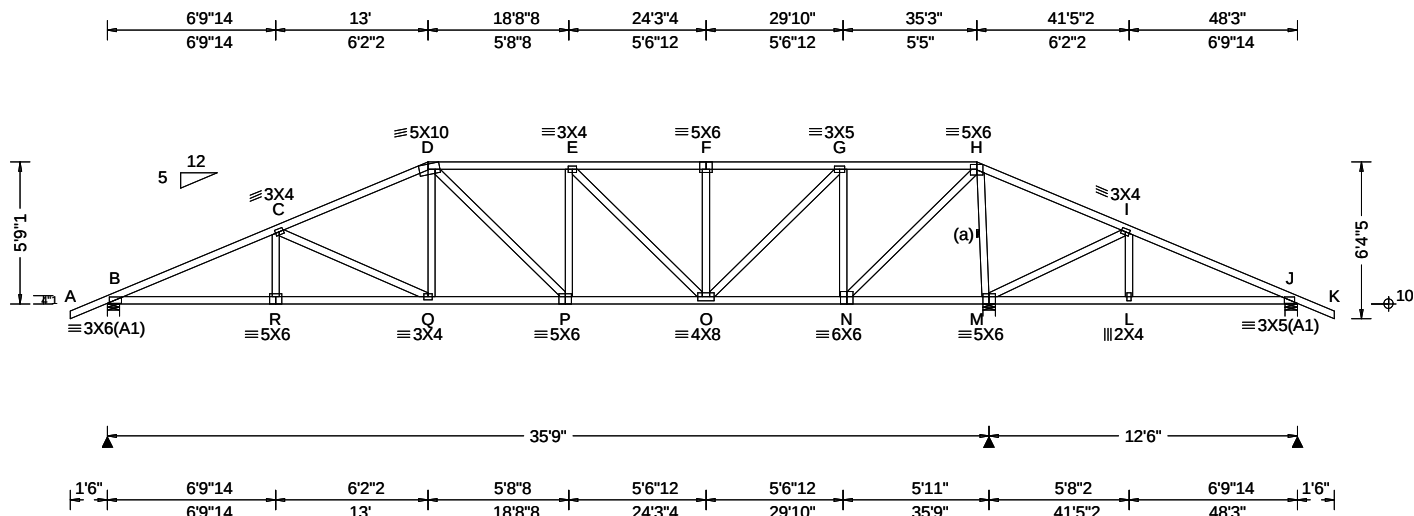
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - D	402 -26	H - O	208 -1384
D - R	130 -522	O - I	2179 -263
E - R	501 -47	N - I	356 -2453
F - P	134 -789	I - M	410 -35
P - H	1462 -205		

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

SEQN: 466038 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A09	Cust: R 215 JRef: 1XRI2150003 T18 DrwNo: 201.23.0741.03170 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.139 Q 999 240 VERT(CL): 0.261 Q 999 180 HORZ(LL): 0.042 N - - HORZ(TL): 0.079 N - - Creep Factor: 2.0 Max TC CSI: 0.762 Max BC CSI: 0.600 Max Web CSI: 0.717 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1281 /- /- /750 /186 /172 M 2466 /- /- /1178 /359 /- J 298 /-207 /- /171 /119 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) M Brg Wid = 6.0 Min Req = 2.9 J Brg Wid = 6.0 Min Req = 1.5 Bearings B, M, & J are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Wind loading based on both gable and hip roof types.

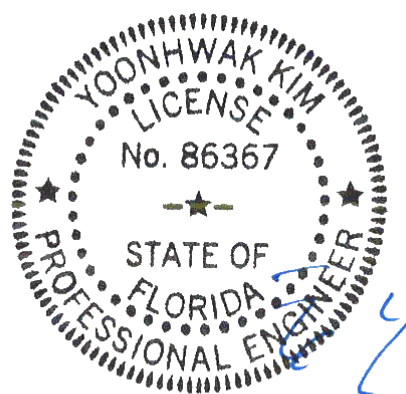
Additional Notes

Negative reaction(s) of -207# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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.

The overall height of this truss excluding overhang is 5-9-1.

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

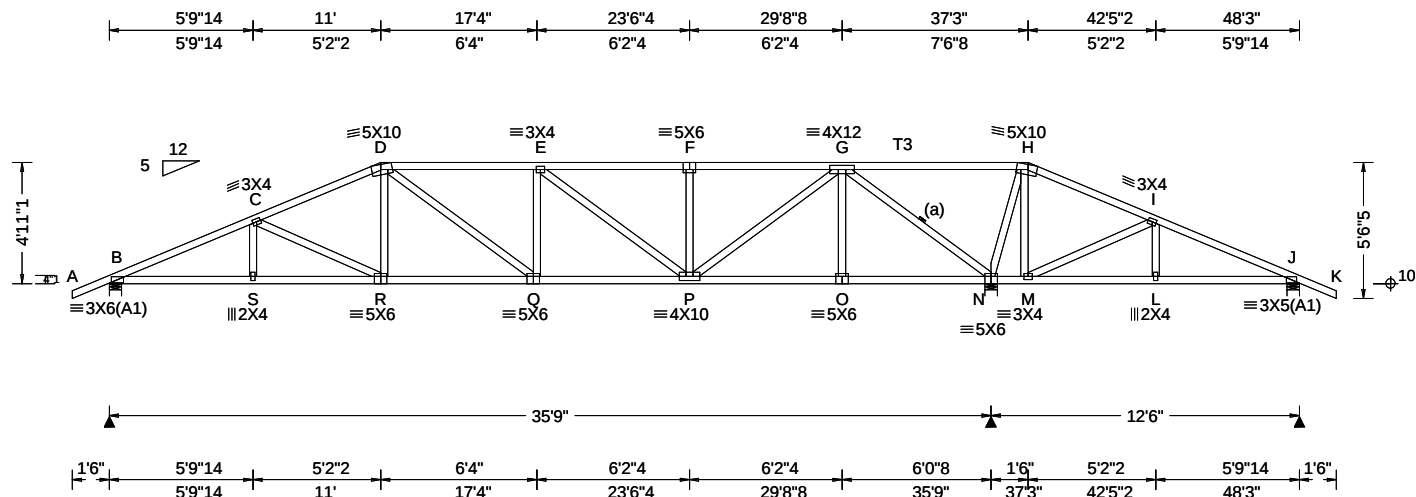


FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

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 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. 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																							
Maximum Bot Chord Forces Per Ply (lbs) <table> <tr> <th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr> <tr> <td>B - R</td><td>2198 -323</td><td>O - N</td><td>403 -67</td></tr> <tr> <td>R - Q</td><td>2194 -324</td><td>N - M</td><td>218 -988</td></tr> <tr> <td>Q - P</td><td>1665 -207</td><td>M - L</td><td>194 -781</td></tr> <tr> <td>P - O</td><td>1653 -214</td><td>L - J</td><td>195 -776</td></tr> </table>				Chords	Tens.Comp.	Chords	Tens. Comp.	B - R	2198 -323	O - N	403 -67	R - Q	2194 -324	N - M	218 -988	Q - P	1665 -207	M - L	194 -781	P - O	1653 -214	L - J	195 -776
Chords	Tens.Comp.	Chords	Tens. Comp.																				
B - R	2198 -323	O - N	403 -67																				
R - Q	2194 -324	N - M	218 -988																				
Q - P	1665 -207	M - L	194 -781																				
P - O	1653 -214	L - J	195 -776																				
Maximum Web Forces Per Ply (lbs) <table> <tr> <th>Webs</th><th>Tens.Comp.</th><th>Webs</th><th>Tens. Comp.</th></tr> <tr> <td>C - Q</td><td>139 -588</td><td>G - N</td><td>283 -1188</td></tr> <tr> <td>D - Q</td><td>425 -24</td><td>N - H</td><td>1806 -344</td></tr> <tr> <td>E - O</td><td>112 -628</td><td>H - M</td><td>378 -2044</td></tr> <tr> <td>O - G</td><td>1185 -206</td><td>M - I</td><td>154 -695</td></tr> </table>				Webs	Tens.Comp.	Webs	Tens. Comp.	C - Q	139 -588	G - N	283 -1188	D - Q	425 -24	N - H	1806 -344	E - O	112 -628	H - M	378 -2044	O - G	1185 -206	M - I	154 -695
Webs	Tens.Comp.	Webs	Tens. Comp.																				
C - Q	139 -588	G - N	283 -1188																				
D - Q	425 -24	N - H	1806 -344																				
E - O	112 -628	H - M	378 -2044																				
O - G	1185 -206	M - I	154 -695																				



SEQN: 466039 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A10	Cust: R 215 JRef: 1XRI2150003 T17 DrwNo: 201.23.0741.09177 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.147 Q 999 240 VERT(CL): 0.279 Q 999 180 HORZ(LL): 0.042 N - - HORZ(TL): 0.080 N - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.553 Max Web CSI: 0.764 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1247 /- /- /720 /178 /151 N 2600 /- /- /1229 /417 /- J 251 /-305 /- /159 /156 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 N Brg Wid = 6.0 Min Req = 3.1 J Brg Wid = 6.0 Min Req = 1.5 Bearings B, N, & J are a rigid surface. 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; T3 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Wind loading based on both gable and hip roof types.

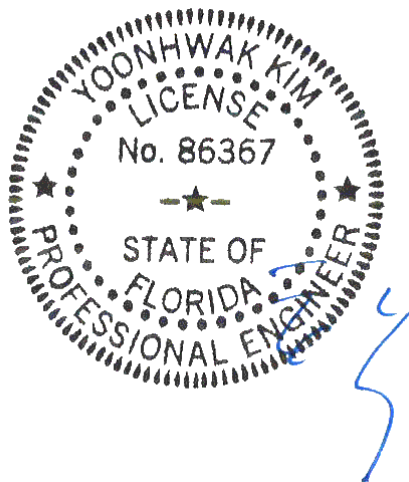
Additional Notes

Negative reaction(s) of -305# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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.

The overall height of this truss excluding overhang is 4-11-1.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	348 -2394	F - G	324 -1377
C - D	354 -1956	G - H	1622 -207
D - E	425 -1889	H - I	1419 -195
E - F	324 -1377	I - J	1062 -210

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - R	114 -440	G - N	462 -2293
D - R	377 -16	N - H	189 -1131
E - P	135 -666	M - I	133 -622
P - G	1385 -275		

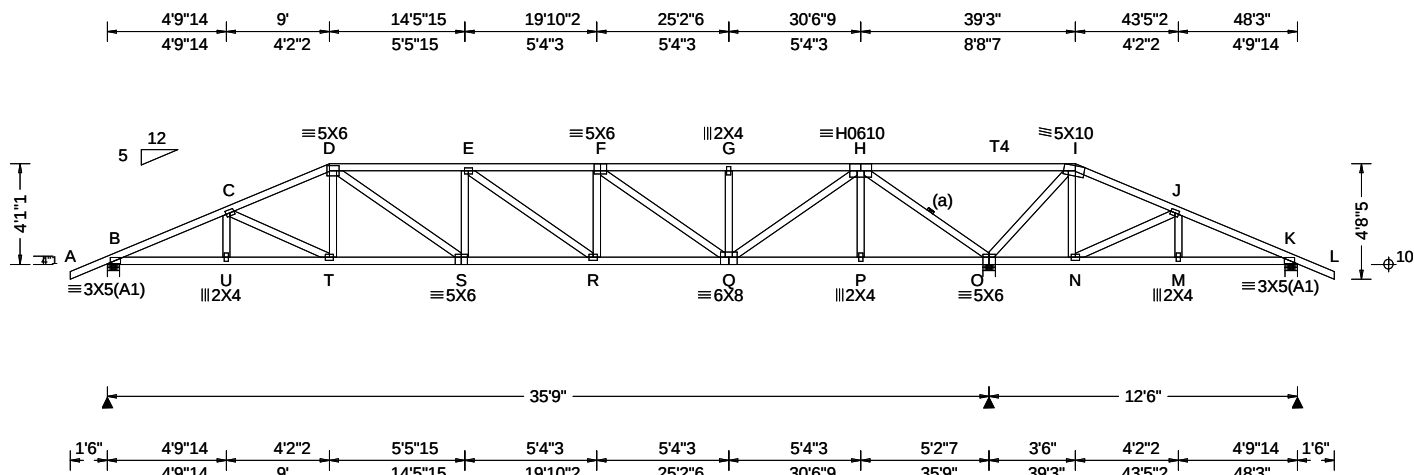
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

SEQN: 466040 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A11	Cust: R 215 JRef: 1XRI2150003 T16 DrwNo: 201.23.0741.16053 KD / YK 07/20/2023
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 7.00	Speed: 130 mph	Pf: NA		Ce: NA	VERT(LL): 0.179 E	999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA	Cs: NA		VERT(CL): 0.338 E	999 180	B	1223	/-	/-	/693	/188	/129
BCDL: 10.00	Risk Category: II	Snow Duration: NA			HORZ(LL): 0.044 Q	- -	O	2681	/-	/-	/1262	/466	/-
	EXP: C Kzt: NA				HORZ(TL): 0.084 Q	- -	K	231	/-375	/-	/150	/176	/-
Des Ld: 37.00	Mean Height: 15.00 ft	Building Code:			Creep Factor: 2.0		Wind reactions based on MWFRS						
NCBCLL: 10.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.			Max TC CSI: 0.715	B Brg Wid = 6.0 Min Req = 1.5							
Soffit: 2.00	BCDL: 3.0 psf	TPI Std: 2014			Max BC CSI: 0.604	O Brg Wid = 6.0 Min Req = 3.2							
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	Rep Fac: Yes			Max Web CSI: 0.800	K Brg Wid = 6.0 Min Req = 1.5							
Spacing: 24.0 "	C&C Dist a: 4.83 ft	FT/RT:20(0)/10(0)			Bearings B, O, & K are a rigid surface.								
	Loc. from endwall: not in 13.00 ft	Plate Type(s):			Members not listed have forces less than 375#								
	GCpi: 0.18	WAVE, HS			Maximum Top Chord Forces Per Ply (lbs)								
	Wind Duration: 1.25				Chords Tens.Comp. Chords Tens. Comp.								
					VIEW Ver: 22.02.00.0914.12								

Lumber

Top chord: 2x4 SP #2; T4 2x4 SP M-31;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

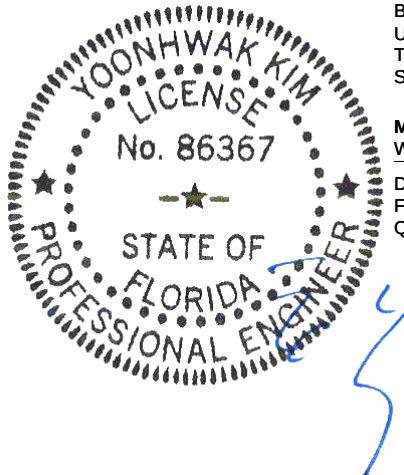
Additional Notes

Negative reaction(s) of -375# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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.

The overall height of this truss excluding overhang is 4-1-1.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
 Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - U	2126 -288	R - Q	1985 -369
U - T	2124 -289	O - N	300 -1324
T - S	1862 -269	N - M	235 -1079
S - R	2226 -409	M - K	236 -1073

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - S	432 -159	H - O	540 -2548
F - Q	242 -990	O - I	255 -1456
Q - H	1596 -327	N - J	110 -505

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

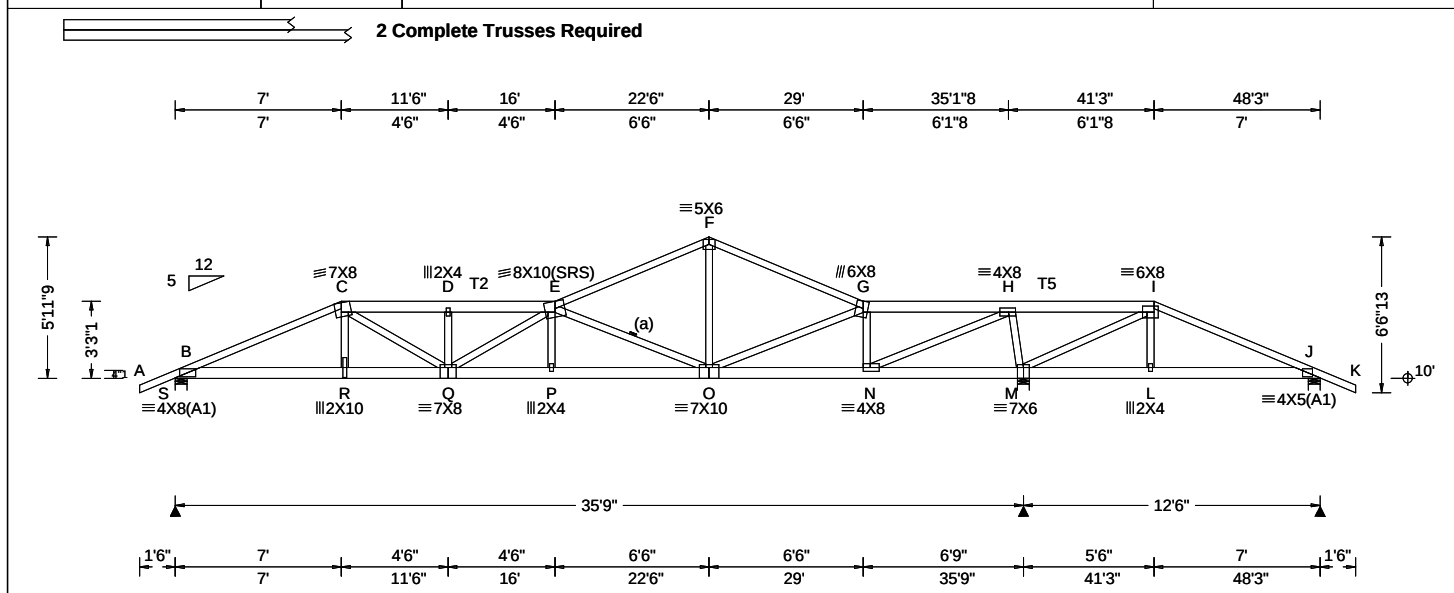
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 466098 FROM: CDM	SPEC Ply: 2 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A12	Cust: R 215 JRef: 1XRI2150003 T60 DrwNo: 201.23.0741.38303 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.203 E 999 240 VERT(CL): 0.375 E 999 180 HORZ(LL): 0.038 C - - HORZ(TL): 0.071 C - - Creep Factor: 2.0 Max TC CSI: 0.536 Max BC CSI: 0.570 Max Web CSI: 0.857 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL S 3229 -/- /- /- /727 -/- M 5180 -/- /- /- /1308 -/- J 302 -/-276 -/- /- /67 -/- Wind reactions based on MWFRS S Brg Wid = 6.0 Min Req = 1.5 (Truss) M Brg Wid = 6.0 Min Req = 2.1 J Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings S, M, & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Wind	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; T2,T5 2x6 SP 2400f-2.0E; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3;	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 820 -3843 F - G 276 -1144 C - D 825 -3928 H - I 2298 -528 D - E 825 -3928 I - J 563 -93 E - F 276 -1144

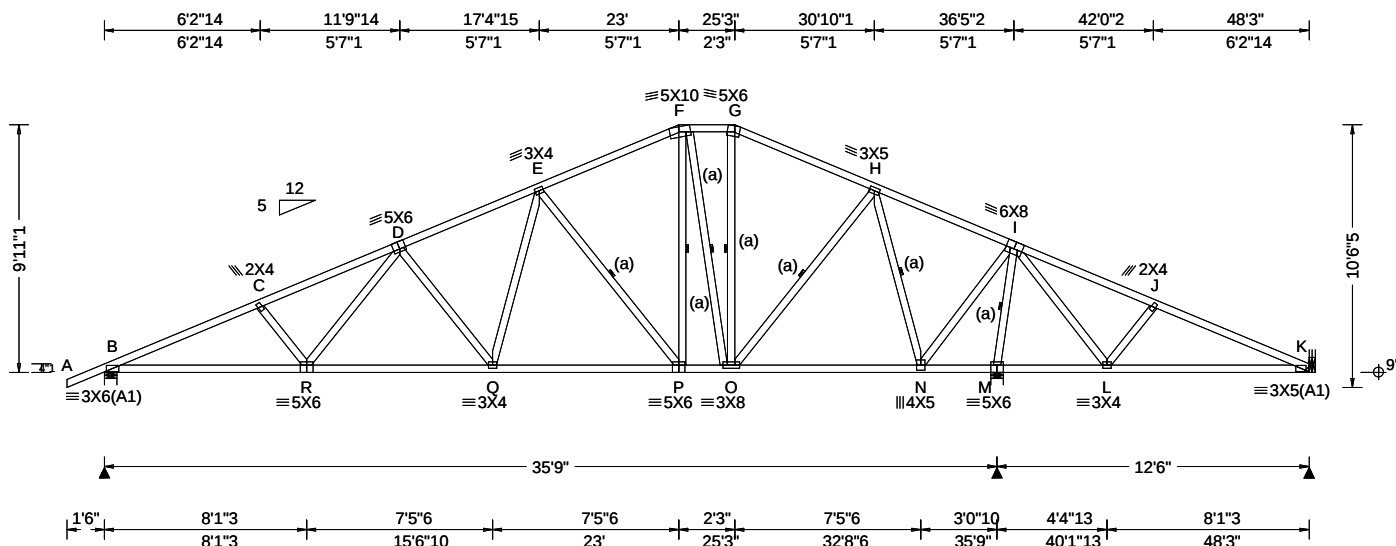
Bracing	Additional Notes	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Negative reaction(s) of -276# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping, and installation of trusses. See "WARNING" note below. The overall height of this truss, excluding overhangs, is 5'-11"-9".	Chords Tens.Comp. Chords Tens. Comp. B - R 3524 -743 N - M 430 -1988 R - Q 3571 -747 M - L 73 -510 Q - P 3220 -712 L - J 73 -513 P - O 3223 -714

Special Loads	Professional Engineer	Maximum Web Forces Per Ply (lbs)
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 55 plf at -1.50 to 55 plf at 49.75 BC: From 4 plf at -1.50 to 4 plf at 0.00 BC: From 20 plf at 0.00 to 20 plf at 48.25 BC: From 4 plf at 48.25 to 4 plf at 49.75 TC: 382 lb Conc. Load at 7.03,41.22 TC: 172 lb Conc. Load at 36.06,37.19 TC: 166 lb Conc. Load at 39.19 BC: 477 lb Conc. Load at 7.03,41.22 BC: 1961 lb Conc. Load at 8.88 BC: 127 lb Conc. Load at 36.06,37.19 BC: 125 lb Conc. Load at 39.19	FL REG# 278, Yoonhwak Kim, FL PE #86367 Florida Certificate of Product Approval #FL 1999	Chords Tens.Comp. Chords Tens. Comp. C - R 902 -84 O - G 1006 -213 C - Q 422 -92 G - N 257 -955 Q - E 835 -133 N - H 2208 -496 E - O 519 -2399 H - M 442 -1413 F - O 671 -103 M - I 510 -2064

Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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. 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: 466041 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A13	Cust: R 215 JRef: 1XRI2150003 T66 DrwNo: 201.23.0741.46883 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.139 D 999 240 VERT(CL): 0.262 D 999 180 HORZ(LL): 0.040 N - - HORZ(TL): 0.077 N - - Creep Factor: 2.0 Max TC CSI: 0.546 Max BC CSI: 0.732 Max Web CSI: 0.634 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1340 /- /- /803 /162 /269 M 2246 /- /- /1102 /234 /- K 284 /-69 /- /176 /96 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) M Brg Wid = 6.0 Min Req = 2.7 K Brg Wid = - Min Req = - Bearings B & M are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

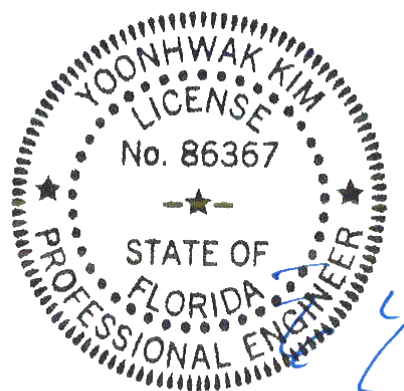
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Additional Notes

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.
The overall height of this truss excluding overhang is 9'-11-1/2".



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	316 -2599	F - G	180 -790
C - D	309 -2411	G - H	177 -920
D - E	243 -1747	I - J	519 -144
E - F	192 -1050	J - K	462 -232

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
R - D	475 -59	O - H	725 -97
D - Q	142 -542	H - N	148 -1245
Q - E	609 -69	N - I	1664 -127
E - P	179 -822	M - I	244 -2227
F - P	716 -113	I - L	556 -74
F - O	164 -564		

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Florida Certificate of Product Approval #FL 1999

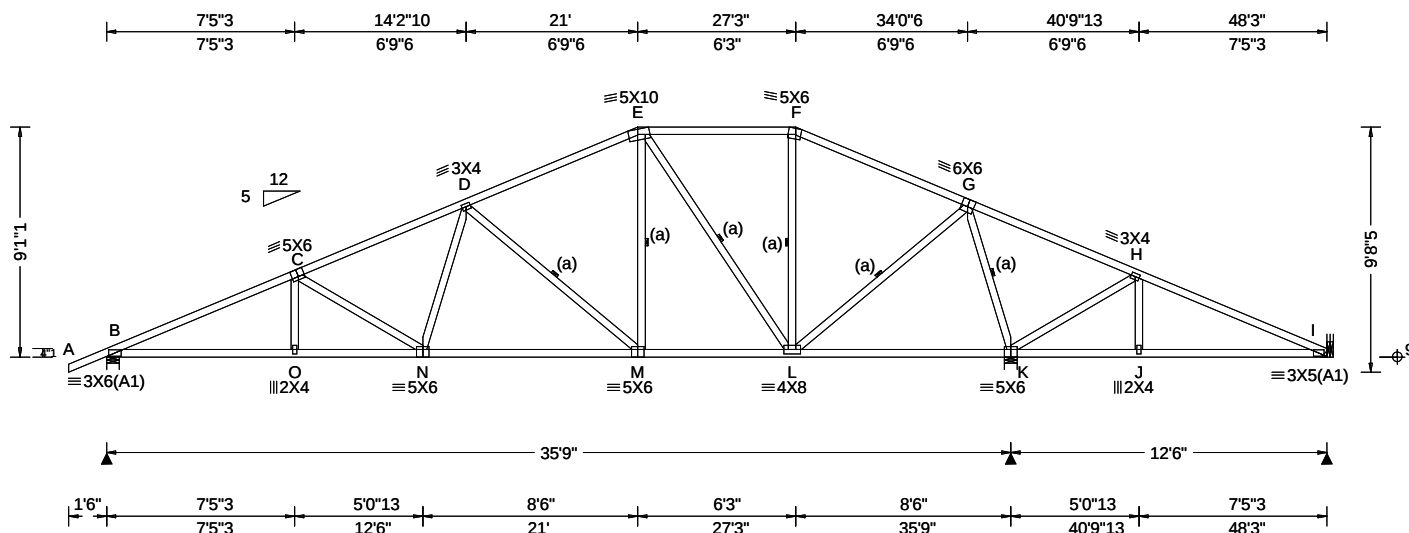
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 466042 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A14	Cust: R 215 JRef: 1XRI2150003 T65 DrwNo: 201.23.0741.49170 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.131 N 999 240 VERT(CL): 0.247 N 999 180 HORZ(LL): 0.041 L - - HORZ(TL): 0.078 L - - Creep Factor: 2.0 Max TC CSI: 0.702 Max BC CSI: 0.721 Max Web CSI: 0.484 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1325 - / - / 797 / 167 / 247 K 2281 - / - / 1123 / 232 - / - I 271 - / 103 - / 161 / 103 - / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) K Brg Wid = 6.0 Min Req = 2.7 I Brg Wid = - Min Req = - Bearings B & K are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

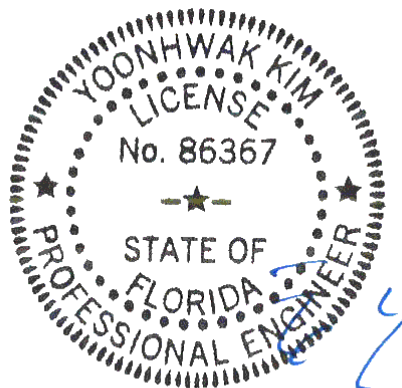
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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.

The overall height of this truss excluding overhang is 9'-1-1/2\"/>



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - O	2260 -358	M - L	1072 -101
O - N	2257 -358	K - J	143 -498
N - M	1671 -237	J - I	144 -495

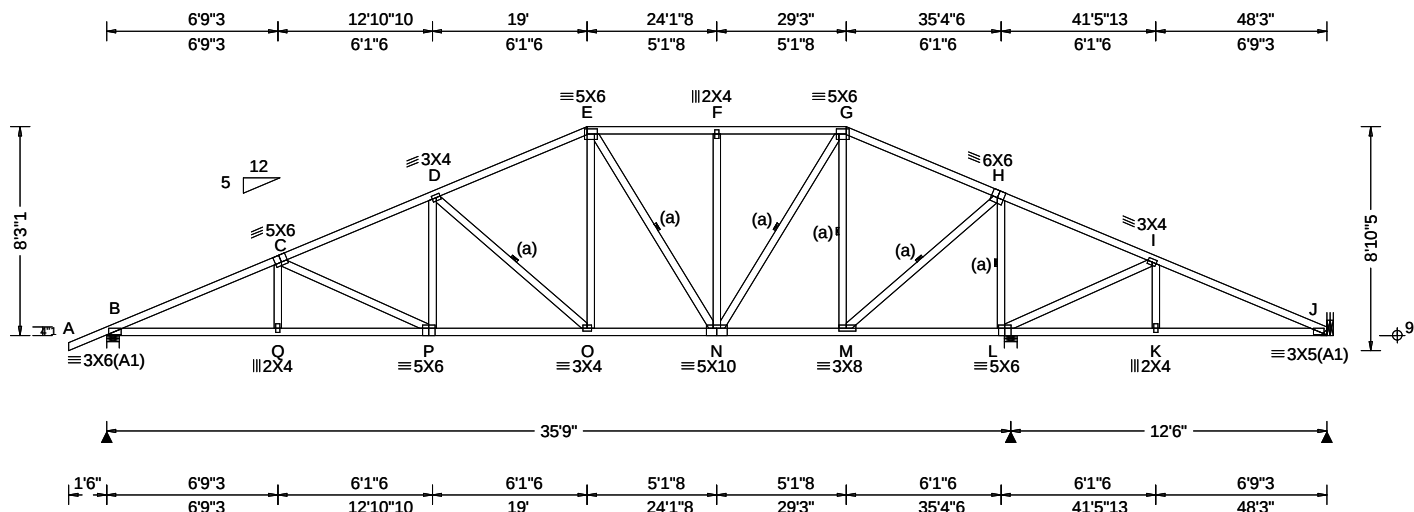
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - N	135 -550	E - L	150 -709
N - D	506 -29	L - G	1271 -111
D - M	179 -793	G - K	224 -1865
E - M	664 -74	K - H	148 -658

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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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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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466043 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A15	Cust: R 215 JRef: 1XRI2150003 T36 DrwNo: 201.23.0741.51433 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.134 P 999 240 VERT(CL): 0.253 P 999 180 HORZ(LL): 0.041 M - - HORZ(TL): 0.078 M - - Creep Factor: 2.0 Max TC CSI: 0.603 Max BC CSI: 0.614 Max Web CSI: 0.590 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1318 - / - / /791 /170 /225 L 2278 - / - / /1126 /233 - J 272 - / -86 - / /162 /100 - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) L Brg Wid = 6.0 Min Req = 2.7 J Brg Wid = - Min Req = - Bearings B & L are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

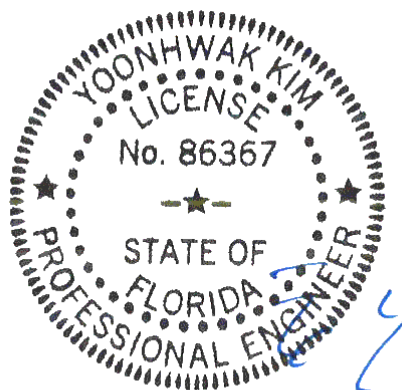
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Additional Notes

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.
The overall height of this truss excluding overhang is 8-3-1.



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07/20/2023 Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	323 -2537	F - G	190 -967
C - D	278 -1992	G - H	130 -578
D - E	226 -1393	H - I	926 -74
E - F	190 -967	I - J	489 -206

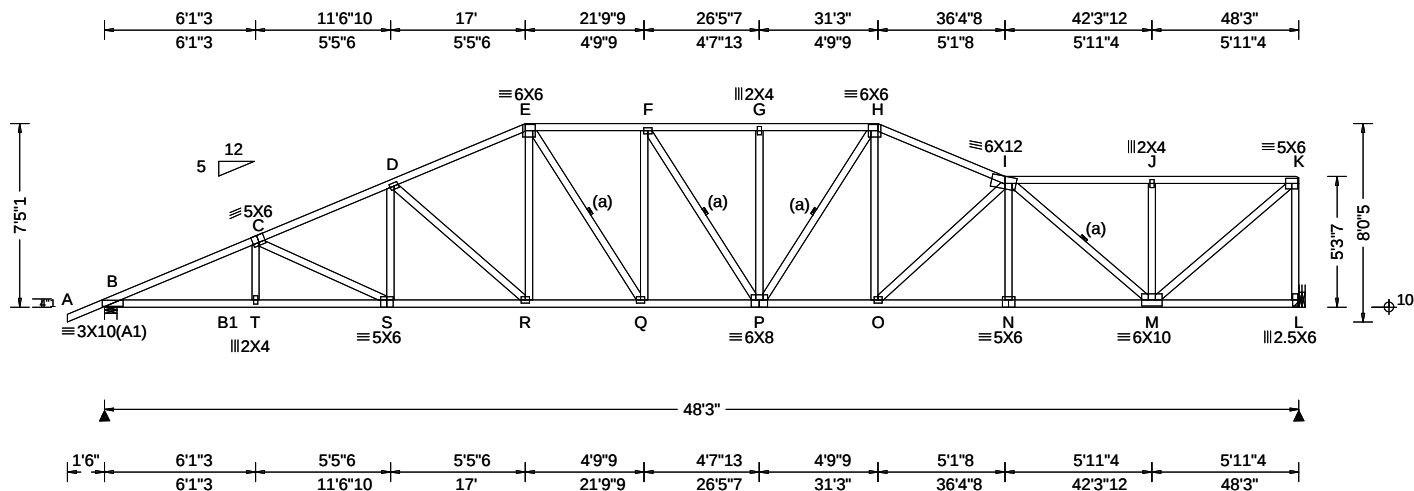
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	124 -556	N - G	929 -135
P - D	429 -17	G - M	129 -909
D - O	156 -728	M - H	1533 -141
E - O	606 -70	H - L	224 -1866
E - N	111 -490	L - I	138 -682

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

SEQN: 466044 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A16	Cust: R 215 JRef: 1XRI2150003 T4 DrwNo: 201.23.0741.53860 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.332 F 999 240 VERT(CL): 0.620 F 930 180 HORZ(LL): 0.109 M - - HORZ(TL): 0.204 M - - Creep Factor: 2.0 Max TC CSI: 0.607 Max BC CSI: 0.800 Max Web CSI: 0.964 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1910 - / - / 1084 / 246 / 194 L 1806 - / - / 848 / 315 - / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) L Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				B - C 511 - 4021 G - H 435 - 3034 C - D 482 - 3603 H - I 427 - 3094 D - E 438 - 3085 I - J 321 - 1937 E - F 440 - 3022 J - K 321 - 1937 F - G 435 - 3034

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

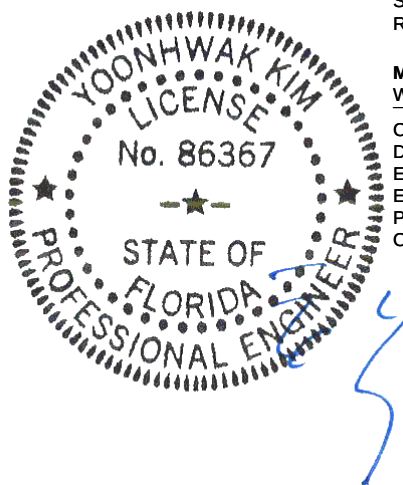
Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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.

The overall height of this truss excluding overhang is 7-5-1.



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida State Seal of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - T	3651 - 577	Q - P	3033 - 410
T - S	3649 - 578	P - O	2807 - 369
S - R	3261 - 490	O - N	3260 - 466
R - Q	2792 - 390	N - M	3263 - 465

Maximum Web Forces Per Ply (lbs)

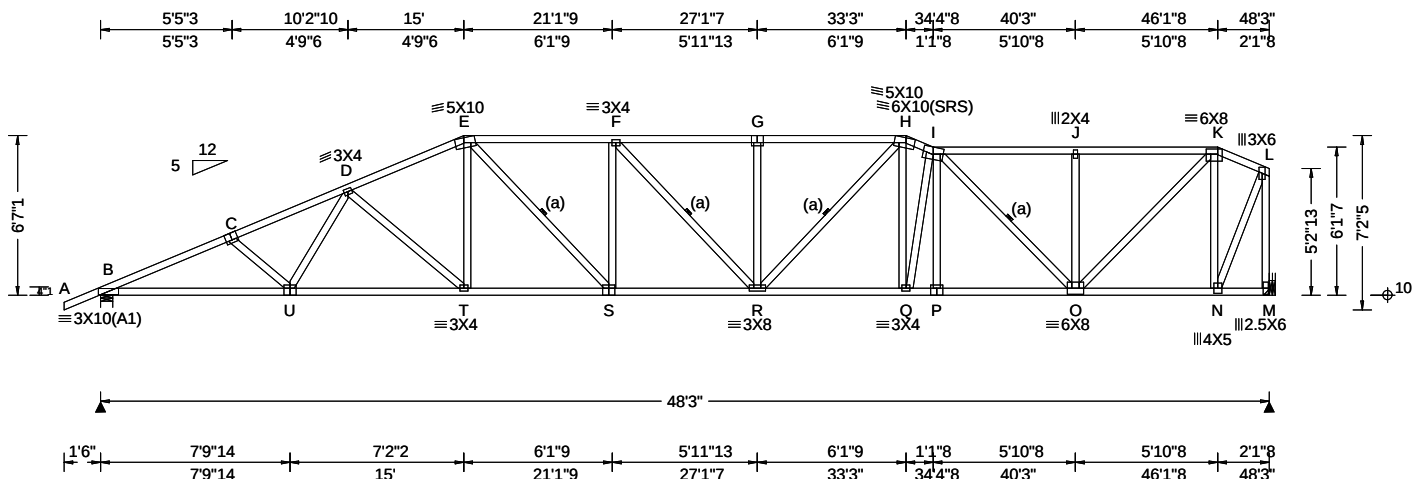
Webs	Tens.Comp.	Webs	Tens. Comp.
C - S	109 - 417	H - O	548 - 65
D - R	139 - 634	I - M	191 - 1732
E - R	531 - 62	J - M	190 - 379
E - Q	421 - 69	M - K	2531 - 420
P - H	407 - 81	K - L	329 - 1758
O - I	136 - 633		

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

SEQN: 466045 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A17	Cust: R 215 JRef: 1XRI2150003 T30 DrwNo: 201.23.0741.56197 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.368 F 999 240 VERT(CL): 0.688 F 839 180 HORZ(LL): 0.117 N - - HORZ(TL): 0.219 N - - Creep Factor: 2.0 Max TC CSI: 0.629 Max BC CSI: 0.992 Max Web CSI: 0.940 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1910 /- /- /1082 /259 /173 M 1806 /- /- /848 /313 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 2.3 (Truss) M Brg Wid = - Min Req = - Bearing B is a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 5X6 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

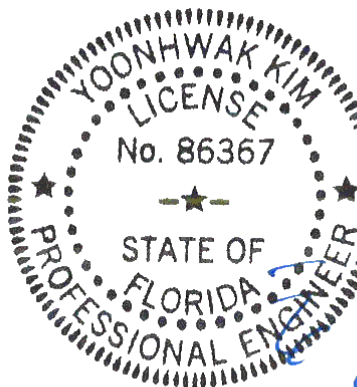
Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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.

The overall height of this truss excluding overhang is 6-7-1.



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Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - U	3666 -616	R - Q	2991 -473
U - T	3354 -539	Q - P	3075 -500
T - S	2976 -448	P - O	3076 -500
S - R	3427 -507	O - N	650 -118

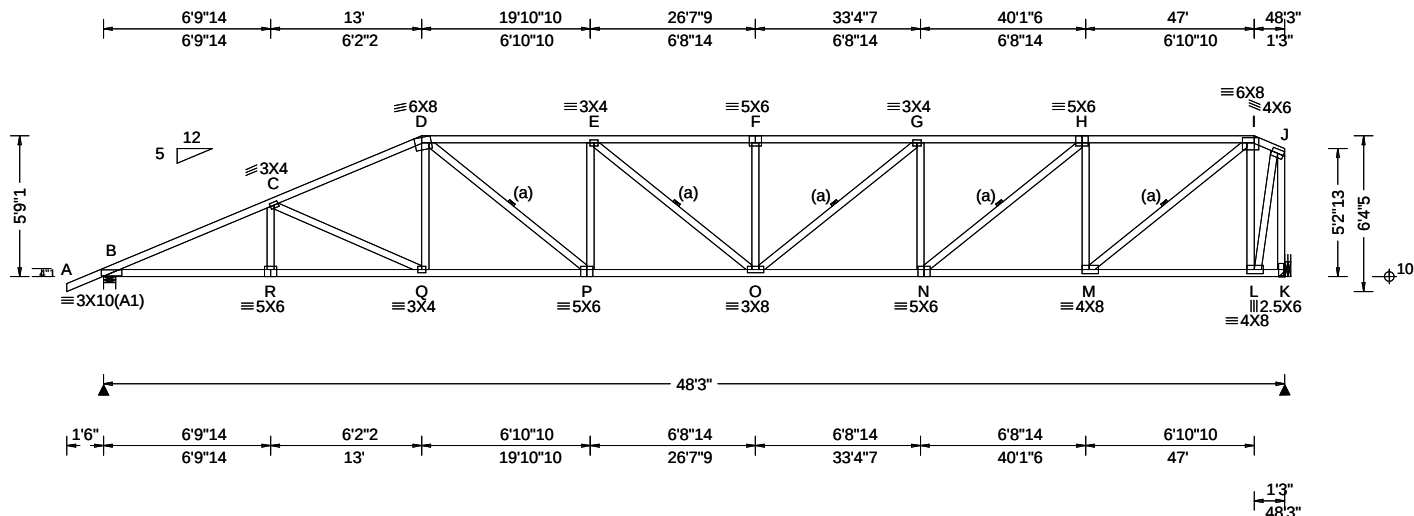
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - T	130 -504	I - O	170 -1360
E - T	497 -47	O - K	2055 -368
E - S	632 -80	K - N	302 -1415
R - H	629 -76	N - L	1643 -298
H - Q	536 -122	L - M	313 -1802
Q - I	144 -442		

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

SEQN: 466046 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A18	Cust: R 215 JRef: 1XRI2150003 T28 DrwNo: 201.23.0757.22927 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.83 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.436 F 999 240 VERT(CL): 0.814 F 709 180 HORZ(LL): 0.119 L - - HORZ(TL): 0.223 L - - Creep Factor: 2.0 Max TC CSI: 0.932 Max BC CSI: 0.949 Max Web CSI: 0.944 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1910 - / - / - /1070 /519 /191 K 1806 - / - / - /855 /509 - / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 2.3 (Truss) K Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1084 -4004 F - G 1157 -3978 C - D 990 -3483 G - H 990 -3416 D - E 1138 -3876 H - I 654 -2248 E - F 1157 -3978 I - J 122 -444

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

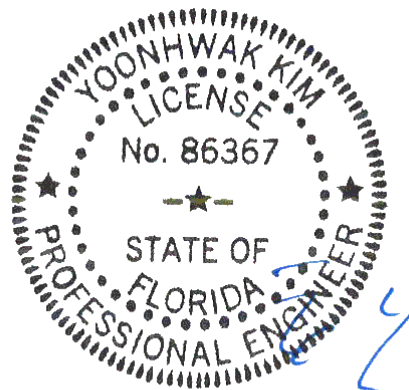
Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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.

The overall height of this truss excluding overhang is 5-9-1.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	3630 -1110	O - N	3458 -988
R - Q	3627 -1111	N - M	2319 -661
Q - P	3158 -931	M - L	435 -122
P - O	3900 -1131		

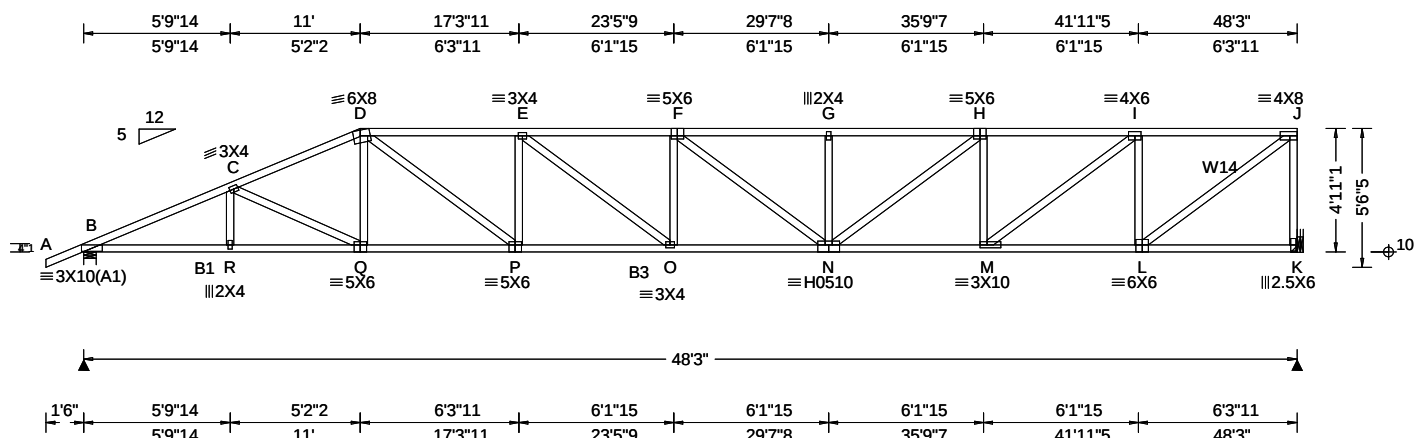
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - Q	200 -521	N - H	1437 -407
D - Q	434 -51	H - M	458 -1327
D - P	924 -244	M - I	2332 -662
P - E	195 -449	I - L	522 -1608
O - G	675 -196	L - J	1770 -495
G - N	304 -796	J - K	495 -1827

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Glenview, IL 60025

SEQN: 466047 FROM: CDM	HIPM Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A19	Cust: R 215 JRef: 1XRI2150003 T27 DrwNo: 201.23.0757.25003 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.83 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.513 F 999 240 VERT(CL): 0.958 F 602 180 HORZ(LL): 0.112 L - - HORZ(TL): 0.209 L - - Creep Factor: 2.0 Max TC CSI: 0.856 Max BC CSI: 0.887 Max Web CSI: 0.770 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1910 /- /- /1051 /522 /179 K 1806 /- /- /861 /511 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) K Brg Wid = - Min Req = - Bearing B is a rigid surface. 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;
Bot chord: 2x4 SP #2; B1, B3 2x4 SP M-31;
Webs: 2x4 SP #3; W14 2x4 SP #2;

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

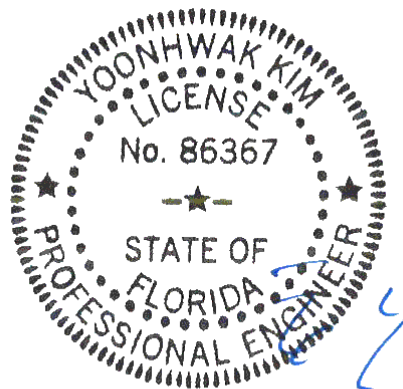
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

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.
The overall height of this truss excluding overhang is 4-11-1.



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Florida State Seal of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	3653 - 1114	O - N	4723 - 1357
R - Q	3651 - 1115	N - M	3666 - 1044
Q - P	3318 - 982	M - L	2239 - 638
P - O	4362 - 1267		

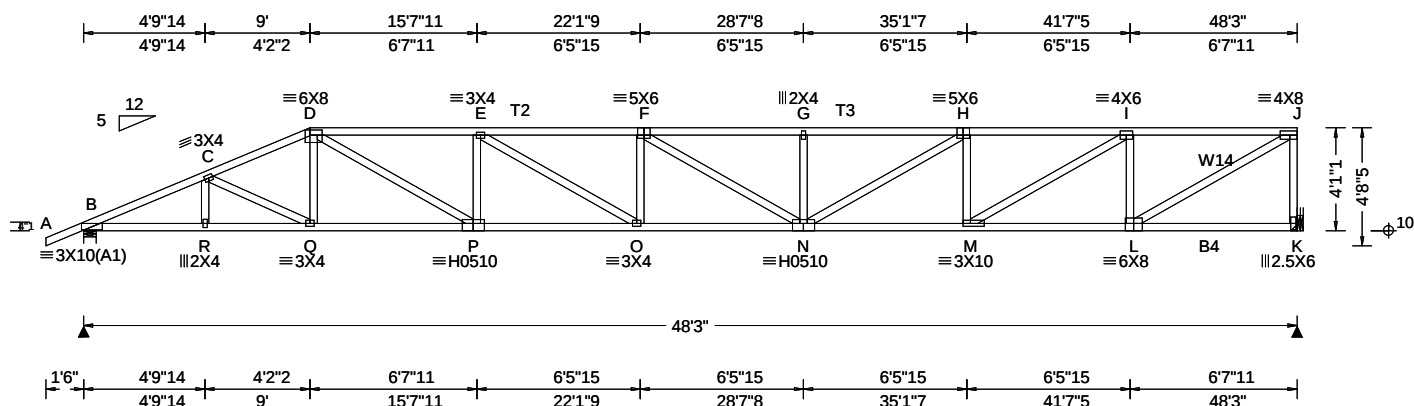
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - P	1255 - 337	M - I	1741 - 489
P - E	242 - 635	I - L	499 - 1479
E - O	448 - 160	L - J	2684 - 759
N - H	1045 - 301	J - K	526 - 1755
H - M	340 - 958		

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SEQN: 466048 FROM: CDM	HIPM Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: A20	Cust: R 215 JRef: 1XRI2150003 T26 DrwNo: 201.23.0757.26640 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.83 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.608 F 949 240 VERT(CL): 1.136 F 508 180 HORZ(LL): 0.117 D - - HORZ(TL): 0.218 D - - Creep Factor: 2.0 Max TC CSI: 0.922 Max BC CSI: 0.558 Max Web CSI: 0.857 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1910 - / - / - /1030 /525 /150 K 1806 - / - / - /854 /509 - / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) K Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1099 -4015 F - G 1582 -5582 C - D 1075 -3807 G - H 1582 -5582 D - E 1438 -5013 H - I 1283 -4549 E - F 1622 -5709 I - J 770 -2737

Lumber

Top chord: 2x4 SP #2; T2,T3 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B4 2x4 SP #2;
Webs: 2x4 SP #3; W14 2x4 SP #2;

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat
TC @ 24" oc.

Wind

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

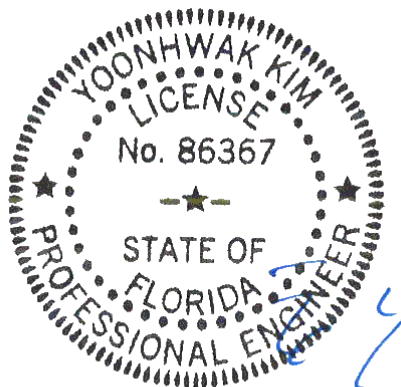
Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

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installation contractor. Special care must be taken
during handling, shipping and installation of trusses.
See "WARNING" note below.

The overall height of this truss excluding overhang is
4'-1-1/2".



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	3651 -1097	O - N	5729 -1633
R - Q	3651 -1099	N - M	4619 -1308
Q - P	3485 -1019	M - L	2849 -808
P - O	5072 -1460		

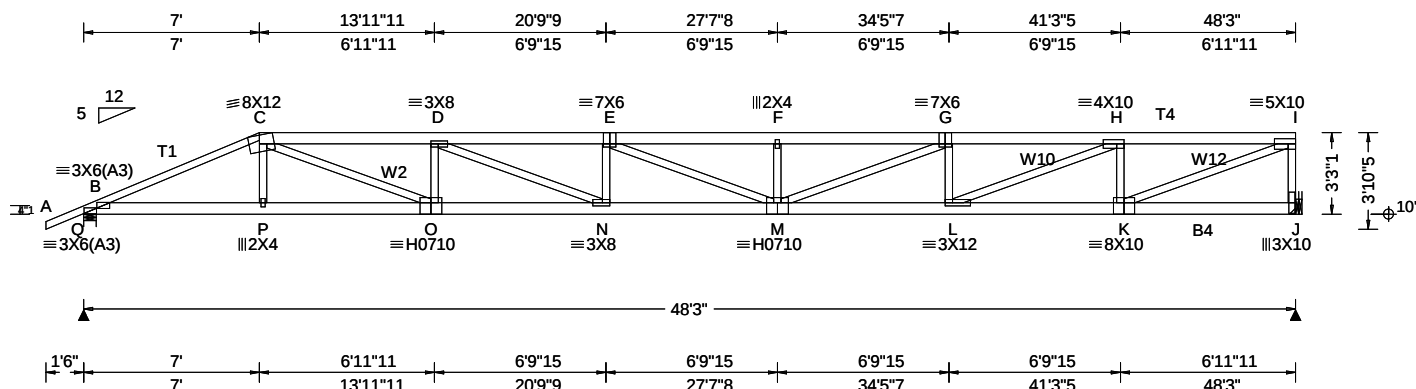
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - P	1769 -485	M - I	1993 -556
P - E	287 -770	I - L	493 -1454
E - O	747 -217	L - J	3152 -887
N - H	1122 -320	J - K	524 -1749
H - M	330 -916		

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Glenview, IL 60025

2 Complete Trusses Required



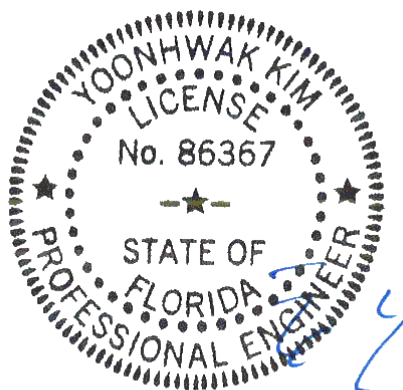
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.83 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.855 F 675 240 VERT(CL): 1.584 F 364 180 HORZ(LL): 0.126 C - - HORZ(TL): 0.233 C - - Creep Factor: 2.0 Max TC CSI: 0.938 Max BC CSI: 0.589 Max Web CSI: 0.750 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 4425 -/- /- /- /1298 -/ J 4424 -/- /- /- /1300 -/ Wind reactions based on MWFRS Q Brg Wid = 6.0 Min Req = 1.8 (Truss) J Brg Wid = - Min Req = - Bearing Q is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1556 -5356 F - G 2779 -9476 C - D 2340 -8014 G - H 2291 -7822 D - E 2776 -9498 H - I 1396 -4766 E - F 2779 -9476

Lumber
Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP #2;
T4 2x6 SP #2;
Bot chord: 2x6 SP 2400f-2.0E; B4 2x6 SP #2;
Webs: 2x4 SP #3; W2,W10 2x4 SP #2;
W12 2x4 SP M-31;
Nailnote
Nail Schedule: 0.131"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 55 plf at -1.50 to 55 plf at 7.00
TC: From 28 plf at 7.00 to 28 plf at 48.25
BC: From 4 plf at -1.50 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.03
BC: From 10 plf at 7.03 to 10 plf at 48.25
TC: 382 lb Conc. Load at 7.03
TC: 166 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,19.06,21.06,23.06,25.06,27.06,29.06,31.06
33.06,35.06,37.06,39.06,41.06,43.06,45.06,47.06
BC: 477 lb Conc. Load at 7.03
BC: 125 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,19.06,21.06,23.06,25.06,27.06,29.06,31.06
33.06,35.06,37.06,39.06,41.06,43.06,45.06,47.06

Hangers / Ties
(J) Hanger Support Required, by others

Purlins
In lieu of structural panels use purlins to brace all flat
TC @ 24" oc.
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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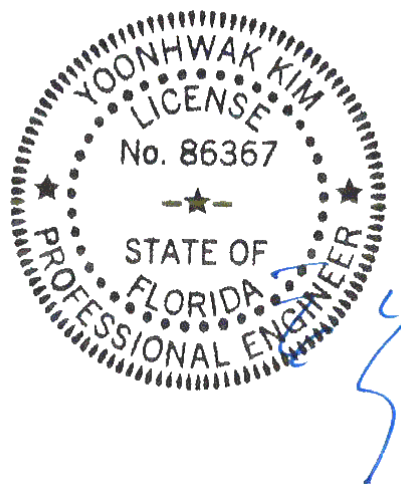
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 466100	HIPM	Ply: 2	Job Number: 23-9417	Cust: R 215 JRef: 1XRI2150003 T37
FROM: CDM		Qty: 1	Elfers	DrwNo: 201.23.0757.52377
Page 2 of 2			Truss Label: A21	KD / YK 07/20/2023

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.

The overall height of this truss excluding overhang is 3-3-1.



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 07/20/2023
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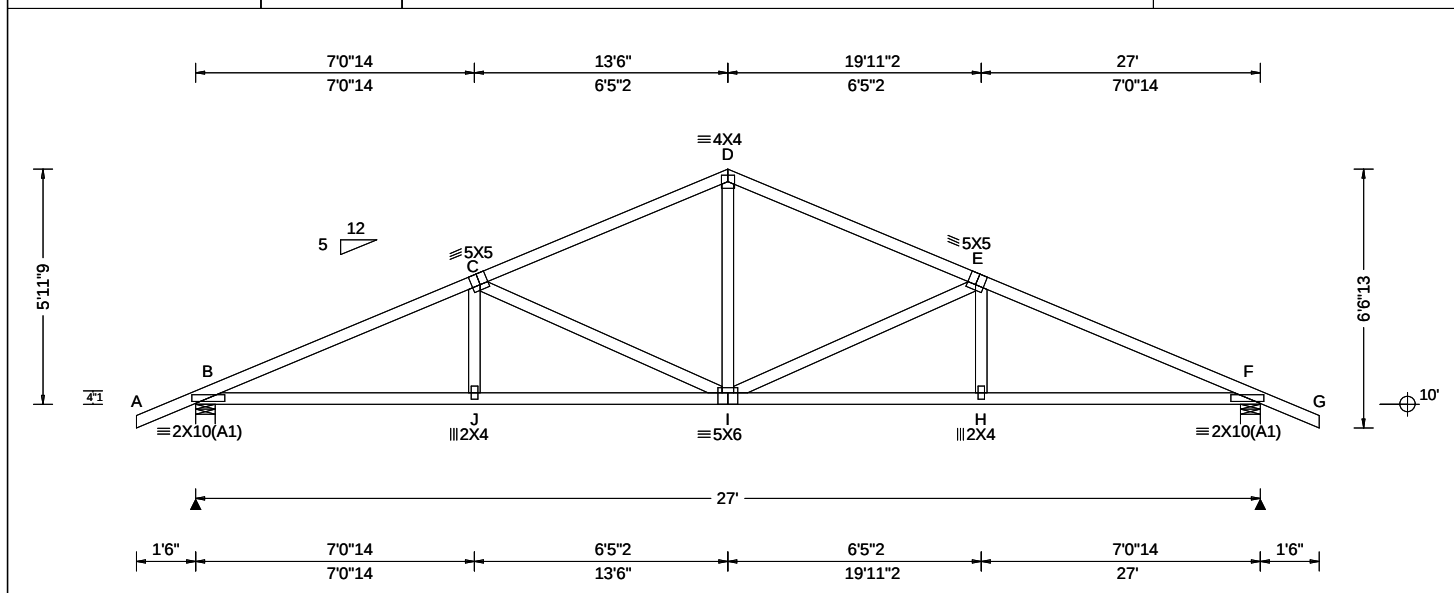
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155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 466049 FROM: CDM	COMN Ply: 1 Qty: 8	Job Number: 23-9417 Elfers Truss Label: B01	Cust: R 215 JRef:1XRI2150003 T41 DrwNo: 201.23.0757.54910 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpf: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.103 I 999 240 VERT(CL): 0.189 I 999 180 HORZ(LL): 0.041 F - - HORZ(TL): 0.075 F - - Creep Factor: 2.0 Max TC CSI: 0.425 Max BC CSI: 0.570 Max Web CSI: 0.594 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1101 /- /- /591 /126 /156 F 1101 /- /- /591 /126 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 F Brg Wid = 6.0 Min Req = 2.6 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 215 -1987 D - E 182 -1376 C - D 182 -1376 E - F 215 -1987

Lumber

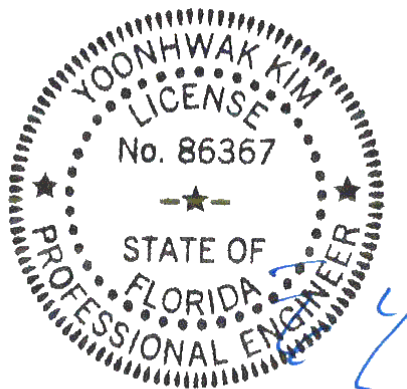
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 5-11-9.

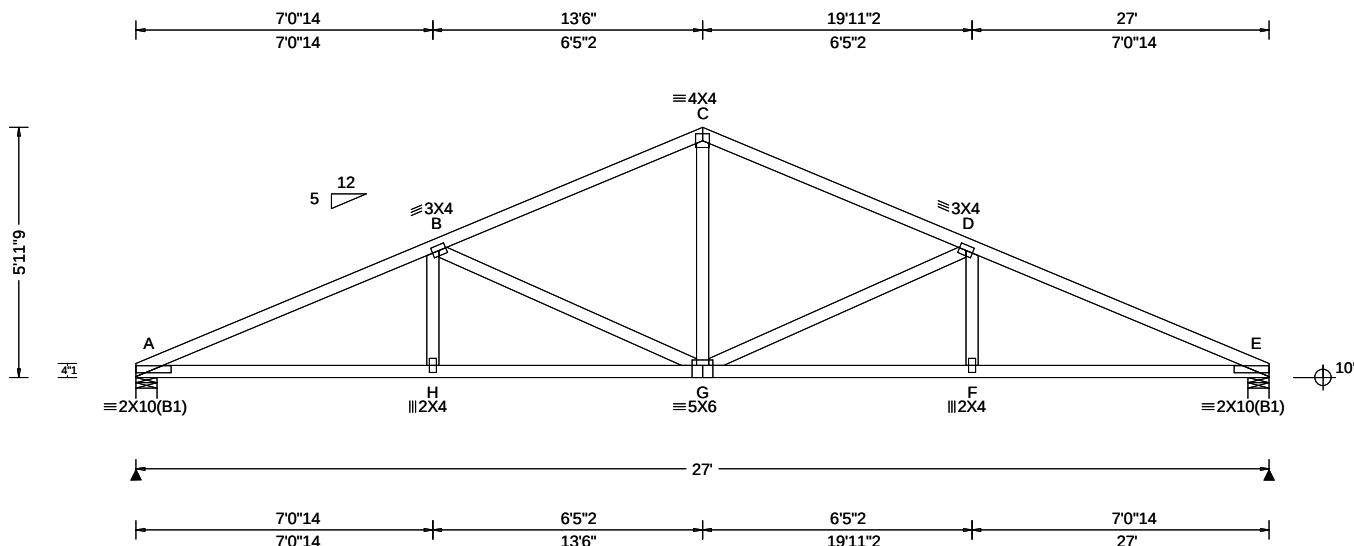


FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

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SEQN: 466050 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: B02	Cust: R 215 JRef: 1XRI2150003 T42 DrwNo: 201.23.0757.58363 KD / YK 07/20/2023
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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: 7.00 BCDL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.101 G 999 240 VERT(CL): 0.189 G 999 180 HORZ(LL): 0.040 E - - HORZ(TL): 0.076 E - - Creep Factor: 2.0 Max TC CSI: 0.459 Max BC CSI: 0.592 Max Web CSI: 0.622 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL A 1015 /- /- /522 /112 /126 E 1015 /- /- /522 /112 /- Non-Gravity Wind reactions based on MWFRS A Brg Wid = 6.0 Min Req = 1.5 E Brg Wid = 6.0 Min Req = 2.6 Bearings A & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 224 -2030 C - D 172 -1394 B - C 172 -1394 D - E 225 -2030

Lumber

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

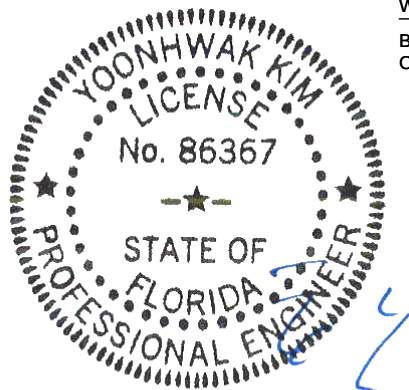
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-11-9.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	1816 -203	G - F	1811 -159
H - G	1811 -204	F - E	1816 -158

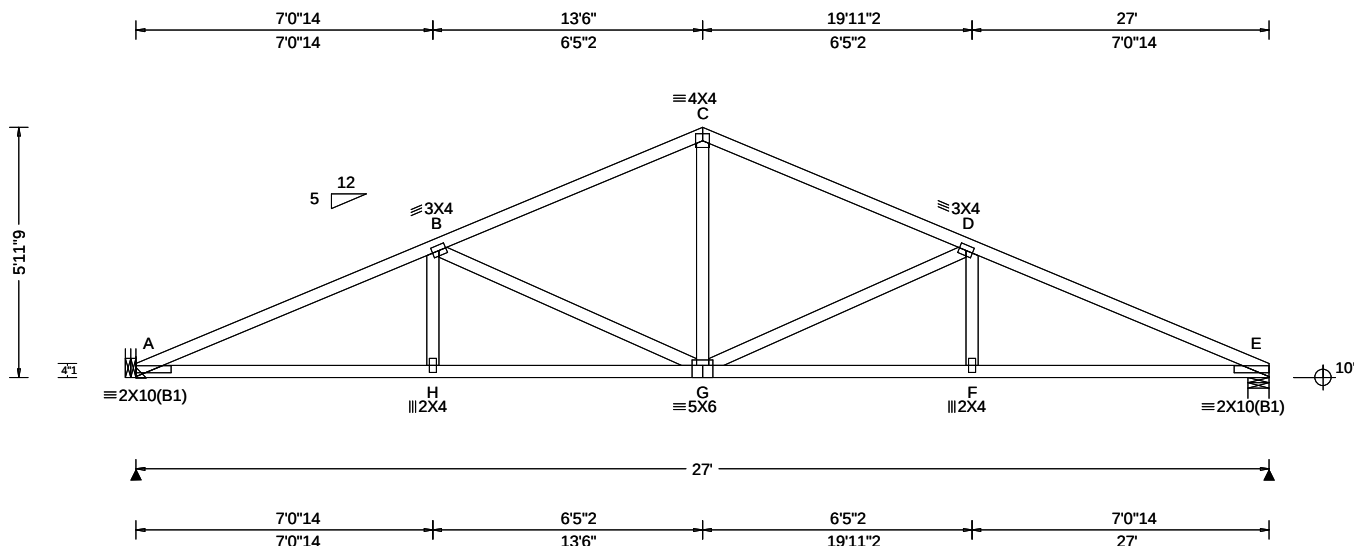
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - G	155 -653	G - D	157 -653
C - G	687 -45		

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

SEQN: 466051 FROM: CDM	COMN Ply: 1 Qty: 3	Job Number: 23-9417 Elfers Truss Label: B03	Cust: R 215 JRef: 1XRI2150003 T25 DrwNo: 201.23.0758.00043 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCcp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.101 G 999 240 VERT(CL): 0.190 G 999 180 HORZ(LL): 0.041 E - - HORZ(TL): 0.076 E - - Creep Factor: 2.0 Max TC CSI: 0.471 Max BC CSI: 0.606 Max Web CSI: 0.628 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1014 /- /- /522 /112 /126 E 1016 /- /- /522 /112 /- Wind reactions based on MWFRS A Brg Wid = - Min Req = - E Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 225 -2037 C - D 172 -1396 B - C 172 -1396 D - E 225 -2032

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

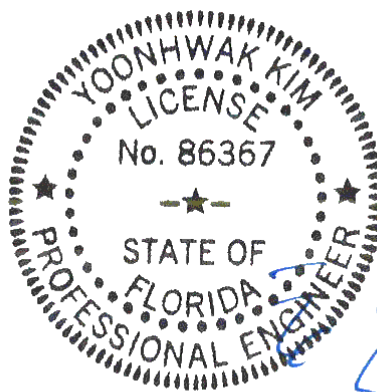
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-11-9.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	1823 -203	G - F	1813 -159
H - G	1818 -204	F - E	1818 -158

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - G	156 -659	G - D	157 -653
C - G	689 -46		

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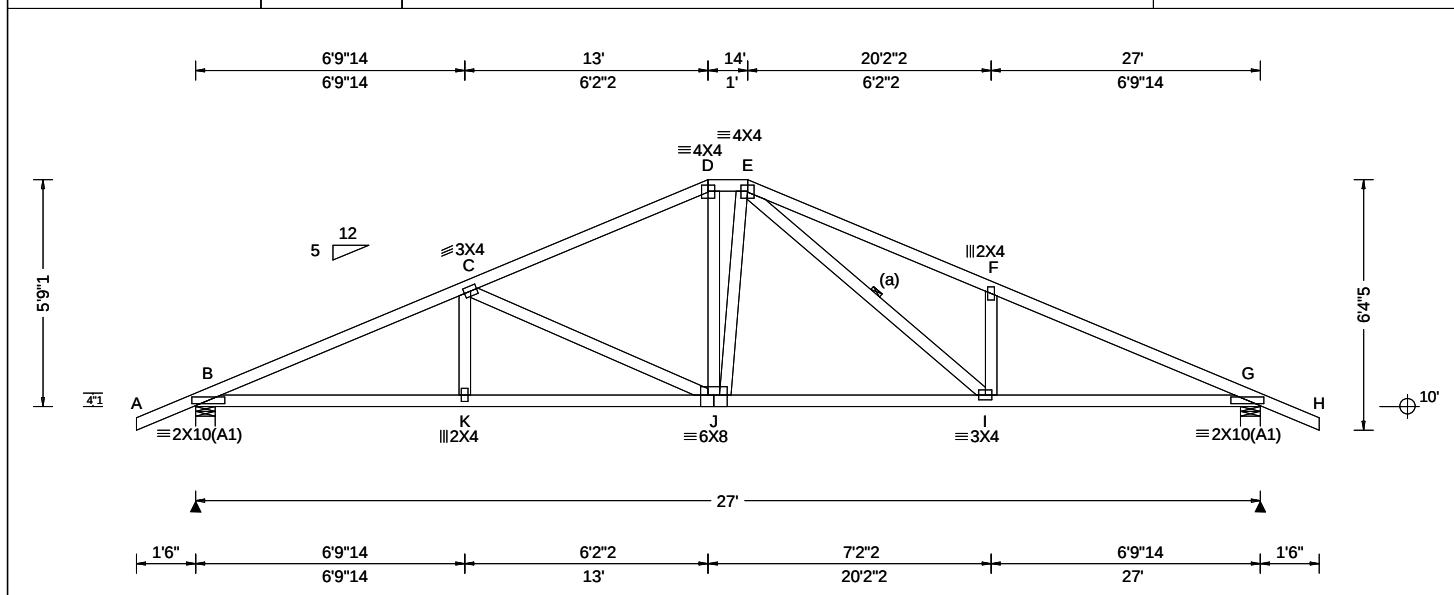
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466052 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: B04	Cust: R 215 JRef: 1XRI2150003 T40 DrwNo: 201.23.0758.04763 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.103 J 999 240 VERT(CL): 0.189 J 999 180 HORZ(LL): 0.038 G - - HORZ(TL): 0.070 G - - Creep Factor: 2.0 Max TC CSI: 0.394 Max BC CSI: 0.570 Max Web CSI: 0.561 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1104 - / - / /592 /302 /151 G 1104 - / - / /592 /302 - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 G Brg Wid = 6.0 Min Req = 2.6 Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 549 -2009 E - F 640 -1997 C - D 430 -1411 F - G 551 -2015 D - E 431 -1247

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

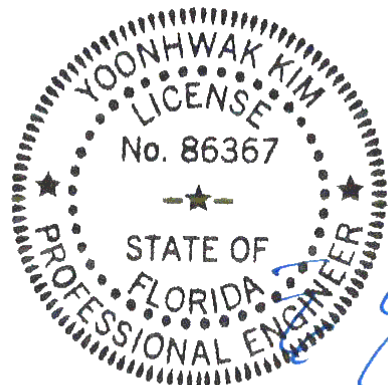
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 5-9-1.

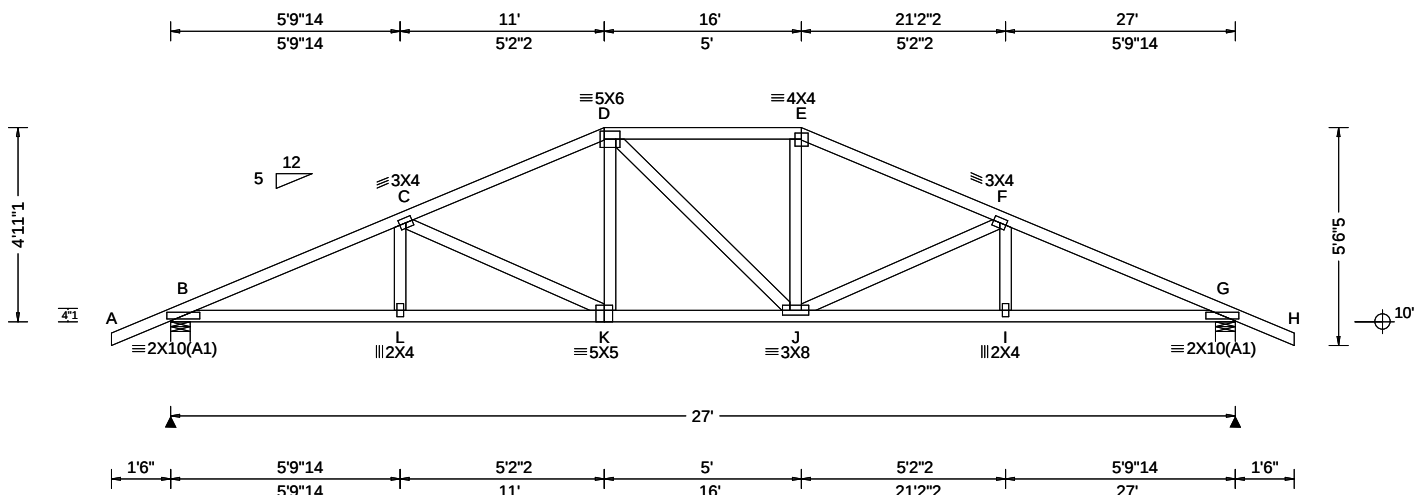


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Florida Certificate of Product Approval #FL 1999

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

SEQN: 466053 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: B05	Cust: R 215 JRef: 1XRI2150003 T39 DrwNo: 201.23.0758.06740 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.105 K 999 240 VERT(CL): 0.192 K 999 180 HORZ(LL): 0.041 G - - HORZ(TL): 0.075 G - - Creep Factor: 2.0 Max TC CSI: 0.262 Max BC CSI: 0.476 Max Web CSI: 0.312 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1104 /- /- /595 /303 /132 G 1104 /- /- /595 /303 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 G Brg Wid = 6.0 Min Req = 2.6 Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 561 -2047 E - F 473 -1577 C - D 475 -1584 F - G 561 -2047 D - E 466 -1415

Lumber

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

Purlins

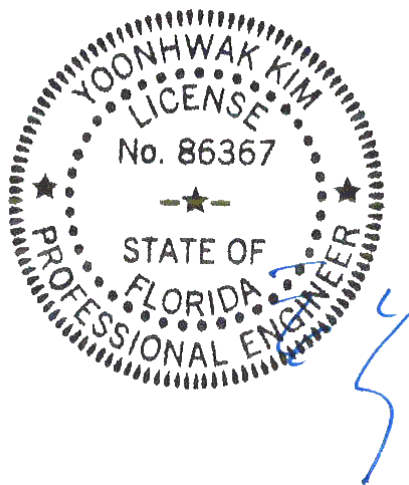
In lieu of structural panels use purlins to brace all flat
TC @ 24" oc.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is
4-11-1.

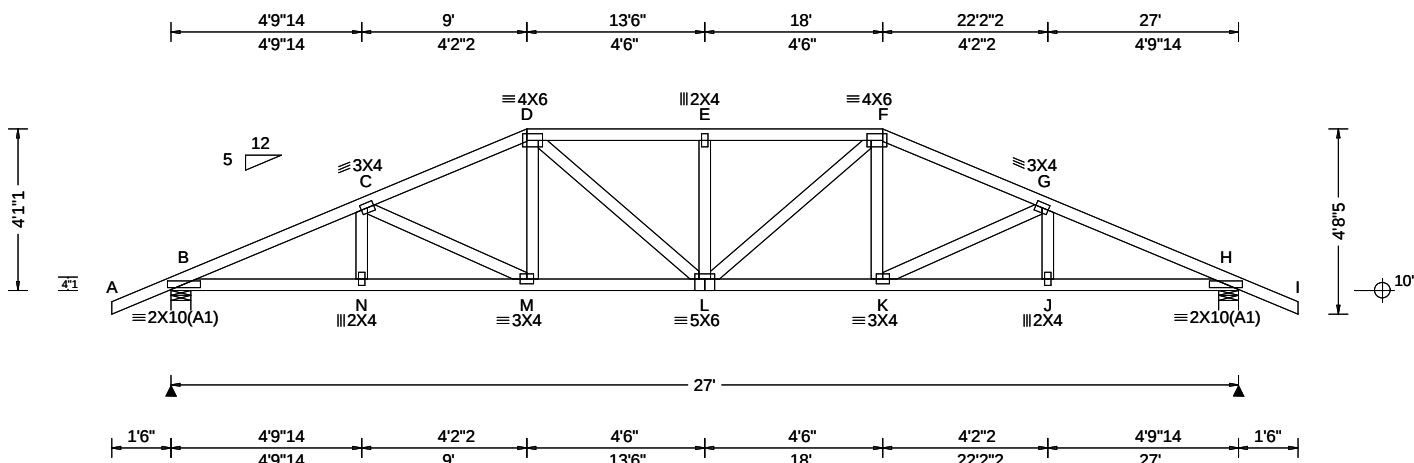


FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Department of Transportation
Florida Department of Transportation

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

SEQN: 466054 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: B06	Cust: R 215 JRef: 1XRI2150003 T38 DrwNo: 201.23.0758.08793 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.118 E 999 240 VERT(CL): 0.217 E 999 180 HORZ(LL): 0.041 H - - HORZ(TL): 0.076 H - - Creep Factor: 2.0 Max TC CSI: 0.250 Max BC CSI: 0.526 Max Web CSI: 0.144 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1104 /- /- /594 /305 /114 H 1104 /- /- /594 /305 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 H Brg Wid = 6.0 Min Req = 2.6 Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 570 -2072 E - F 554 -1774 C - D 515 -1749 F - G 515 -1749 D - E 554 -1774 G - H 570 -2072

Lumber

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

Purlins

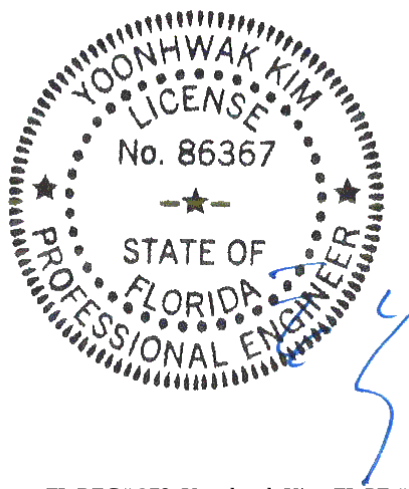
In lieu of structural panels use purlins to brace all flat
TC @ 24" oc.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is
4'-1-1.

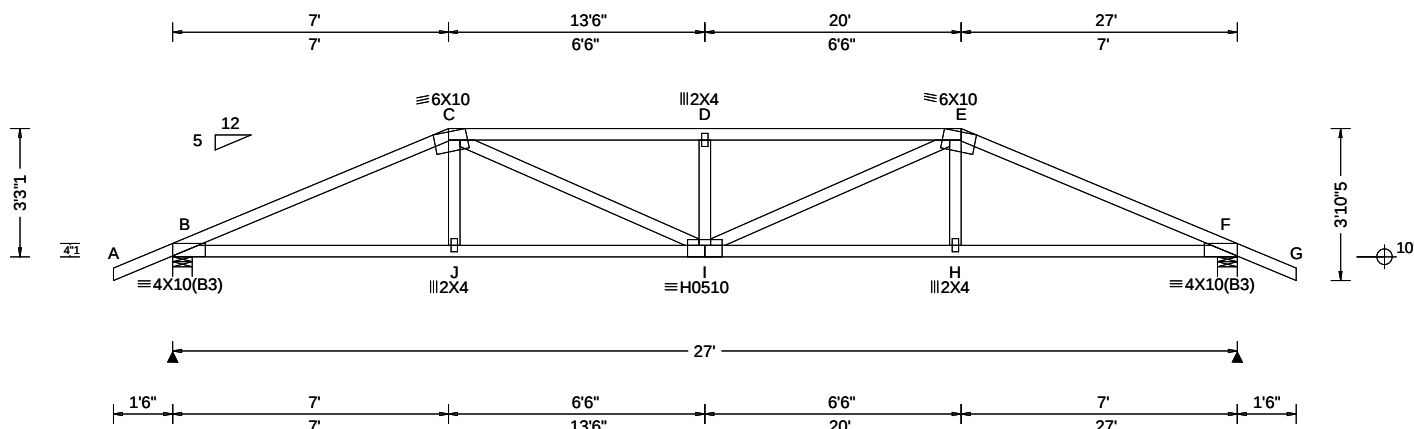


FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

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

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

SEQN: 466102 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: B07	Cust: R 215 JRef: 1XRI2150003 T5 DrwNo: 201.23.0758.57467 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.344 D 931 240 VERT(CL): 0.634 D 505 180 HORZ(LL): 0.091 F - - HORZ(TL): 0.167 F - - Creep Factor: 2.0 Max TC CSI: 0.909 Max BC CSI: 0.715 Max Web CSI: 0.662 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2592 /- /- /- /755 /- F 2592 /- /- /- /755 /- Non-Gravity B Brg Wid = 6.0 Min Req = 2.1 (Truss) F Brg Wid = 6.0 Min Req = 2.1 (Truss) Wind reactions based on MWFRS Bears B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1646 - 5734 D - E 1971 - 6839 C - D 1971 - 6839 E - F 1646 - 5734

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 55 plf at -1.50 to 55 plf at 7.00
TC: From 28 plf at 7.00 to 28 plf at 20.00
TC: From 55 plf at 20.00 to 55 plf at 28.50
BC: From 4 plf at -1.50 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.03
BC: From 10 plf at 7.03 to 10 plf at 19.97
BC: From 20 plf at 19.97 to 20 plf at 27.00
BC: From 4 plf at 27.00 to 4 plf at 28.50
TC: 382 lb Conc. Load at 7.03,19.97
TC: 166 lb Conc. Load at 9.06,11.06,13.06,13.94
15.94,17.94
BC: 477 lb Conc. Load at 7.03,19.97
BC: 125 lb Conc. Load at 9.06,11.06,13.06,13.94
15.94,17.94

Purlins

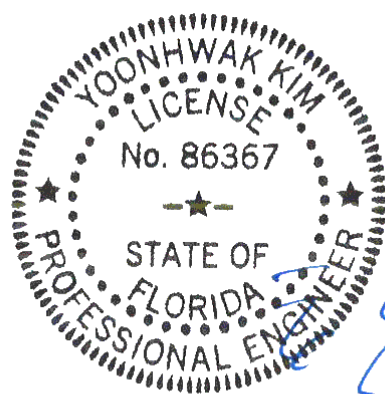
In lieu of structural panels use purlins to brace all flat
TC @ 24" oc.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is
3-3-1.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - J	5224 - 1485	I - H	5257 - 1485
J - I	5257 - 1485	H - F	5224 - 1485

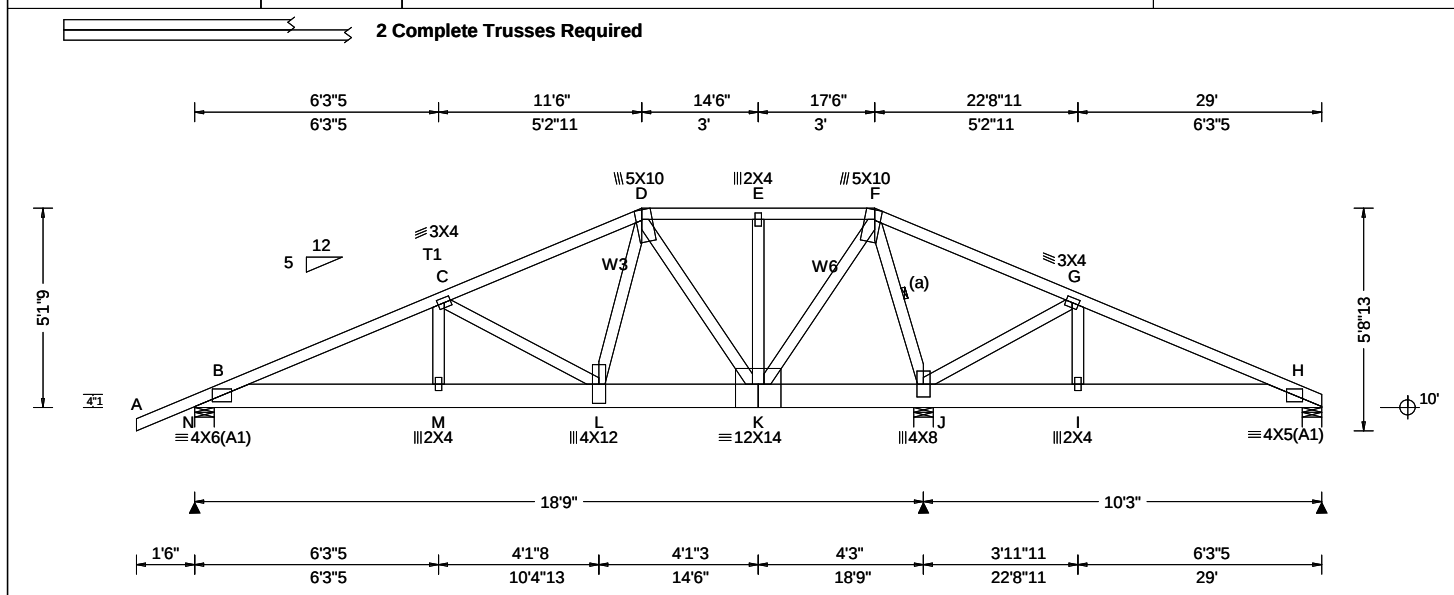
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - J	675 0	I - E	1737 - 534
C - I	1737 - 534	H - E	675 0
D - I	478 - 867		

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

SEQN: 466092 FROM: CDM	HIPS Qty: 1	Ply: 2	Job Number: 23-9417 Elfers Truss Label: C01	Cust: R 215 JRef: 1XRI2150003 T68 DrwNo: 201.23.0759.40843 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.083 L 999 240 VERT(CL): 0.156 L 999 180 HORZ(LL): 0.016 C - - HORZ(TL): 0.029 C - - Creep Factor: 2.0 Max TC CSI: 0.428 Max BC CSI: 0.264 Max Web CSI: 0.743 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL N 3067 - / - / - / 743 - / - J 9145 - / - / - / 2488 - / - H - / - / - / - / - / - Wind reactions based on MWFRS N Brg Wid = 6.0 Min Req = 1.5 (Truss) J Brg Wid = 6.0 Min Req = 3.8 (Truss) H Brg Wid = 6.0 Min Req = 1.5 Bearings N, J, & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Wind	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; T1 2x4 SP M-31; Bot chord: 2x8 SP 2400f-2.0E; Webs: 2x4 SP #3; W3, W6 2x4 SP #2;	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 844 - 3618 E - F 327 - 1930 C - D 736 - 3241 F - G 973 - 411 D - E 327 - 1930 G - H 578 - 224

Bracing	Additional Notes	Maximum Bot Chord Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	The overall height of this truss excluding overhang is 5-1-9.	Chords Tens.Comp. Chords Tens. Comp. B - M 3316 - 767 J - I 194 - 511 M - L 3308 - 766 I - H 191 - 503 L - K 2492 - 535

Nailnote	Maximum Web Forces Per Ply (lbs)
Nail Schedule: 0.131"x3", min. nails Top Chord: 1 Row @ 12.00" o.c. Bot Chord: 1 Row @ 4.25" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Webs Tens.Comp. Webs Tens. Comp. C - L 113 - 397 K - F 3289 - 843 L - D 2106 - 590 F - J 934 - 3328 D - K 385 - 1108 J - G 209 - 442

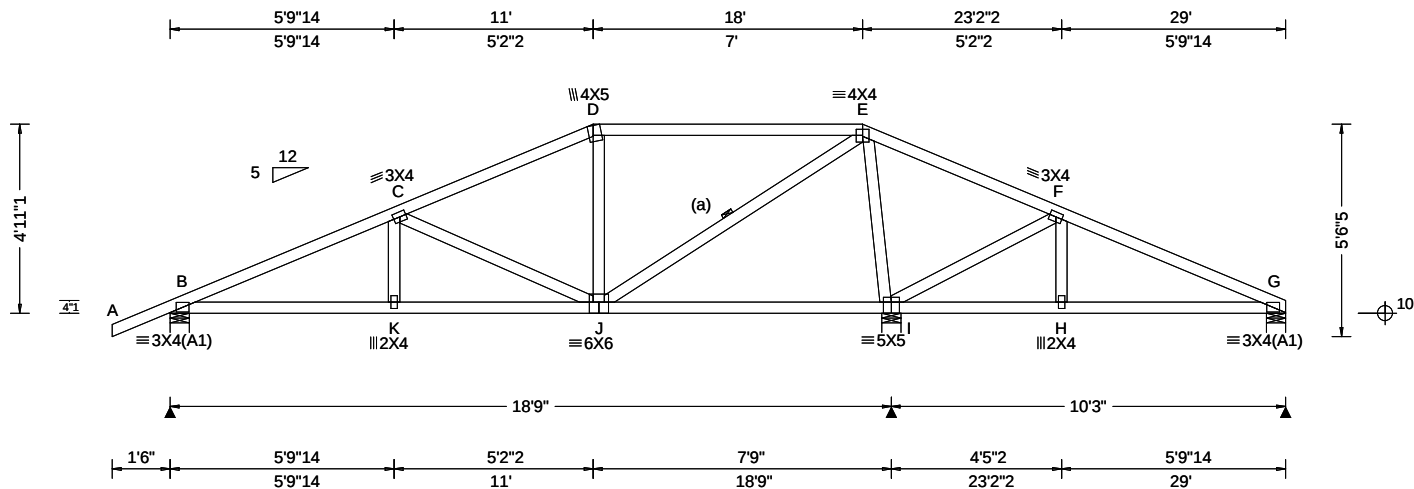
Special Loads	Professional Engineer Seal
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 55 plf at -1.50 to 55 plf at 7.12 TC: From 28 plf at 7.12 to 28 plf at 17.50 TC: From 55 plf at 17.50 to 55 plf at 29.00 BC: From 4 plf at -1.50 to 4 plf at 0.00 BC: From 20 plf at 0.00 to 20 plf at 7.12 BC: From 10 plf at 7.12 to 10 plf at 29.00 BC: 1806 lb Conc. Load at 9.06, 11.06, 13.06, 15.06 17.06 BC: 272 lb Conc. Load at 19.06, 21.06 BC: 284 lb Conc. Load at 23.06 BC: 238 lb Conc. Load at 25.06, 27.06	

Purlins	FL REG# 278, Yoonhwak Kim, FL PE #86367
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.	07/20/2023 FL REG# 278, Yoonhwak Kim, FL PE #86367 07/20/2023

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SEQN: 466055 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: C02	Cust: R 215 JRef: 1XRI2150003 T3 DrwNo: 201.23.0759.48653 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.034 K 999 240 VERT(CL): 0.065 K 999 180 HORZ(LL): 0.009 C - - HORZ(TL): 0.017 C - - Creep Factor: 2.0 Max TC CSI: 0.674 Max BC CSI: 0.454 Max Web CSI: 0.416 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 725 /- /- /418 /117 /120 I 1347 /- /- /645 /200 /- G 276 /- /- /159 /67 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 I Brg Wid = 6.0 Min Req = 2.6 G Brg Wid = 6.0 Min Req = 1.5 Bearings B, I, & G are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

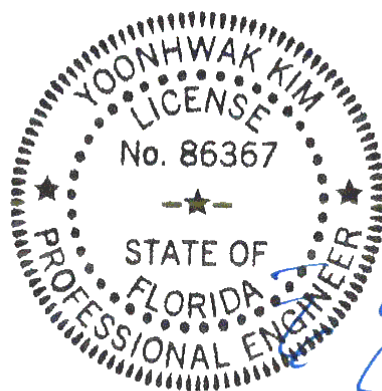
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 4-11-1/2.

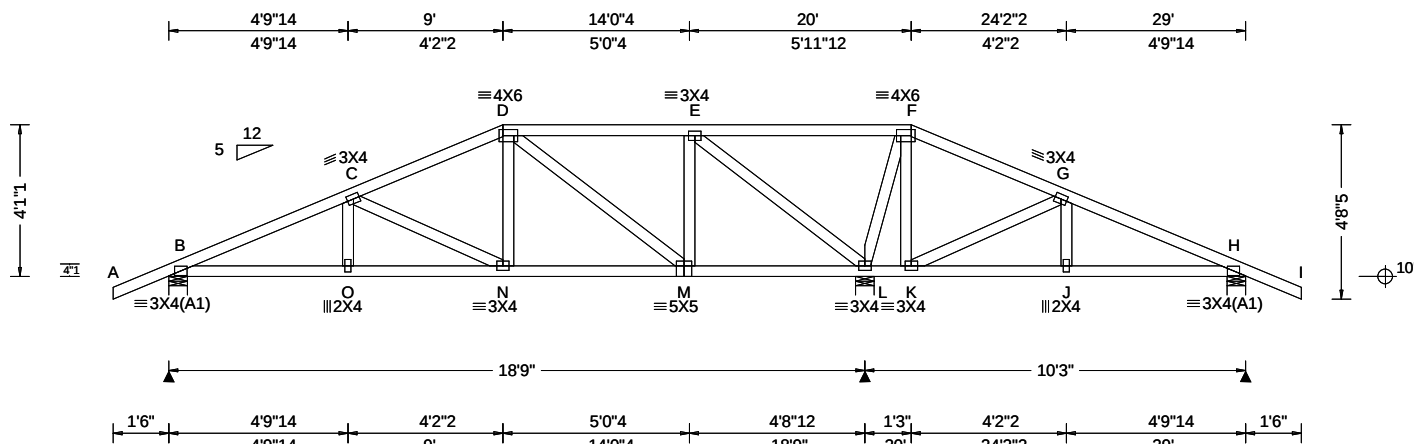


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466056 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: C03	Cust: R 215 JRef:1XRI2150003 T2 DrwNo: 201.23.0759.58970 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.031 C 999 240 VERT(CL): 0.060 C 999 180 HORZ(LL): 0.011 L - - HORZ(TL): 0.021 L - - Creep Factor: 2.0 Max TC CSI: 0.523 Max BC CSI: 0.276 Max Web CSI: 0.793 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 700 /- /- /402 /121 /114 L 1414 /- /- /674 /265 /- H 347 /- /- /209 /79 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 L Brg Wid = 6.0 Min Req = 2.6 H Brg Wid = 6.0 Min Req = 1.5 Bearings B, L, & H are a rigid surface. 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;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Purlins

In lieu of structural panels use purlins to brace all flat
TC @ 24" oc.

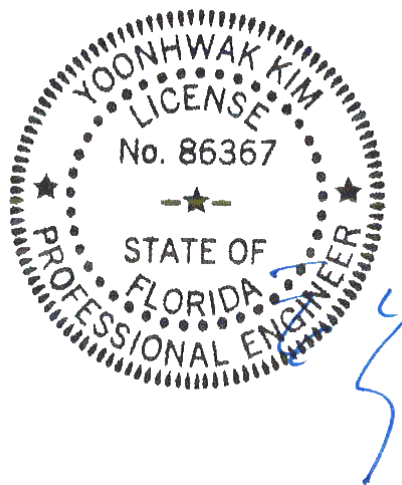
Wind

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

Additional Notes

The overall height of this truss excluding overhang is
4'-11".

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - O	967 -167	N - M	631 -97
O - N	963 -168	L - K	128 -417

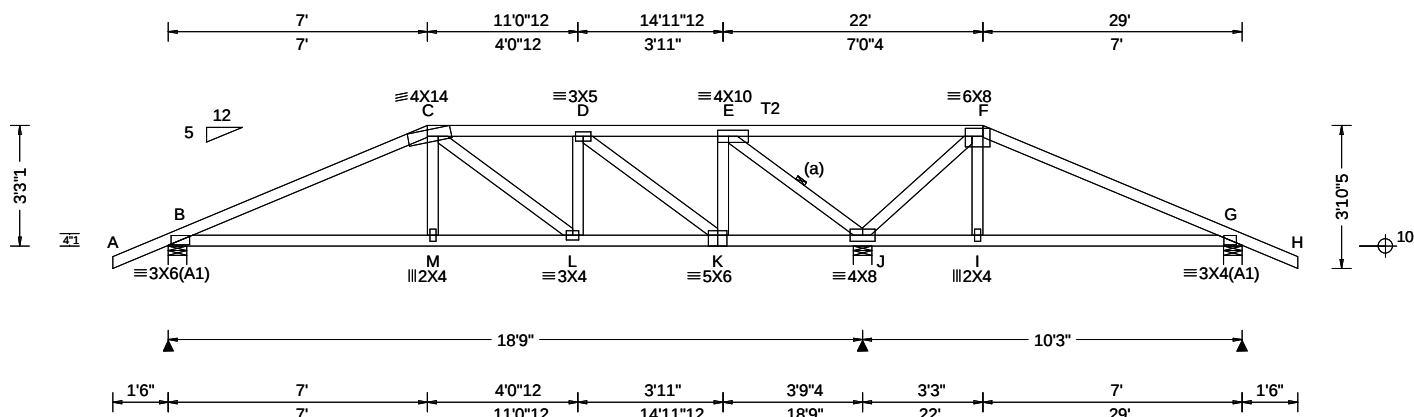
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - N	90 -376	E - L	278 -1105
D - M	55 -412	L - F	132 -638
M - E	390 -3	K - G	101 -463

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

SEQN: 466104 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: C04	Cust: R 215 JRef: 1XRI2150003 T34 DrwNo: 201.23.0800.17267 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.093 M 999 240 VERT(CL): 0.172 M 999 180 HORZ(LL): 0.032 J - - HORZ(TL): 0.059 J - - Creep Factor: 2.0 Max TC CSI: 0.765 Max BC CSI: 0.757 Max Web CSI: 0.868 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1397 -/- /- /- /414 -/ J 3922 -/- /- /- /1125 -/ G 433 -/- /- /- /83 -/ Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.6 (Truss) J Brg Wid = 6.0 Min Req = 4.6 (Truss) G Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings B, J, & G are a rigid surface. 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; T2 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 55 plf at -1.50 to 55 plf at 7.00
TC: From 28 plf at 7.00 to 28 plf at 22.00
TC: From 55 plf at 22.00 to 55 plf at 30.50
BC: From 4 plf at -1.50 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.03
BC: From 10 plf at 7.03 to 10 plf at 21.97
BC: From 20 plf at 21.97 to 20 plf at 29.00
BC: From 4 plf at 29.00 to 4 plf at 30.50
TC: 382 lb Conc. Load at 7.03
TC: 166 lb Conc. Load at 9.06,11.06,13.06,14.50
15.94,17.94,19.94
TC: 388 lb Conc. Load at 21.97
BC: 477 lb Conc. Load at 7.03
BC: 125 lb Conc. Load at 9.06,11.06,13.06,14.50
15.94,17.94,19.94
BC: 479 lb Conc. Load at 21.97

Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

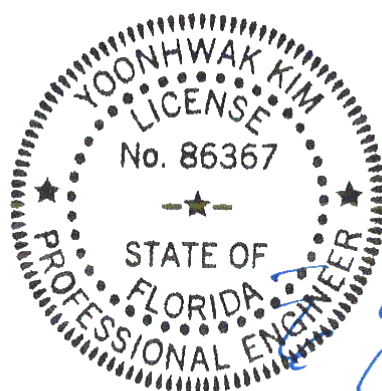
THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.

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

Additional Notes
The overall height of this truss excluding overhang is 3-3-1.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
B - M 2436 -692 L - K 1964 -573
M - L 2467 -692 K - J 681 -239

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
C - M 622 0 K - E 1291 -218
C - L 140 -554 E - J 1075 -3379
L - D 619 -70 J - F 678 -2294
D - K 403 -1493 I - F 655 -20

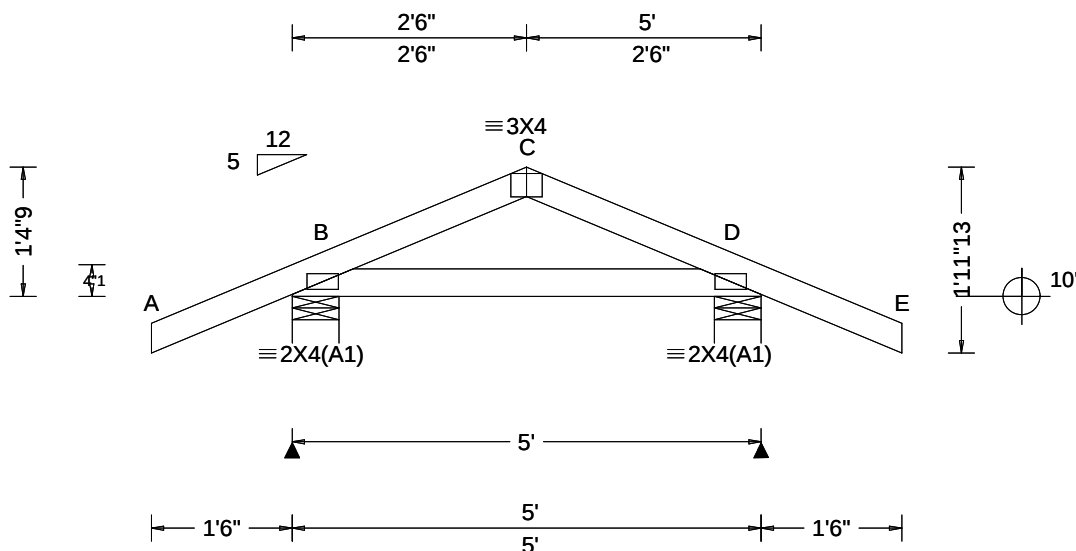


FL REG# 278, Yoonhwak Kim, FL PE #86367
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Glenview, IL 60025

SEQN: 466057 FROM: CDM	COMN Ply: 1 Qty: 8	Job Number: 23-9417 Elfers Truss Label: D01	Cust: R 215 JRef: 1XRI2150003 T1 DrwNo: 201.23.0800.34243 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.001 D 999 240 VERT(CL): 0.004 D 999 180 HORZ(LL): 0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.139 Max BC CSI: 0.125 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 277 /- /- /177 /78 /53 D 277 /- /- /105 /86 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 D Brg Wid = 6.0 Min Req = 2.6 Bearings B & D are a rigid surface. Members not listed have forces less than 375#

Lumber

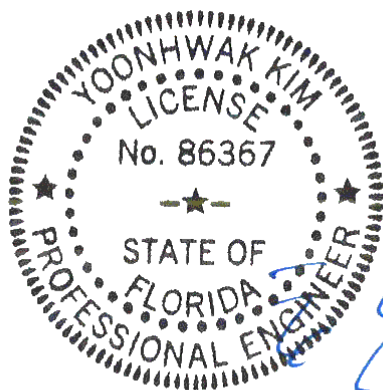
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 1'-4-9".



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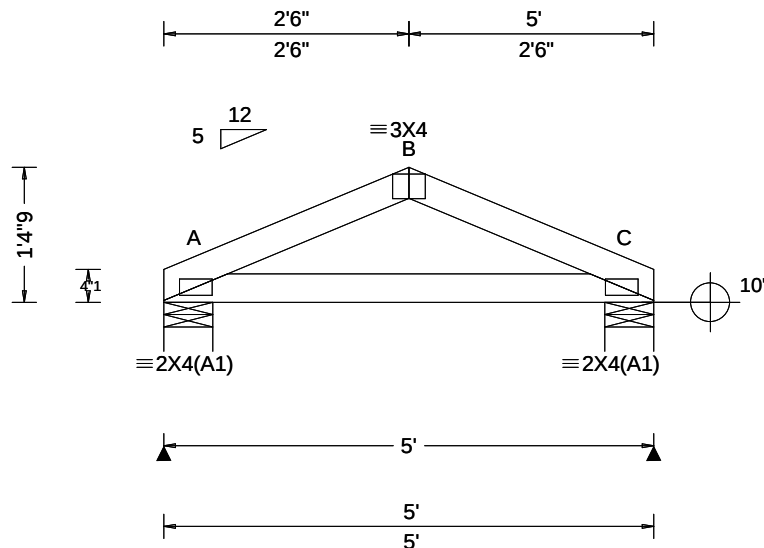
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Glenview, IL 60025

SEQN: 466058 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: D02	Cust: R 215 JRef: 1XRI2150003 T44 DrwNo: 201.23.0800.36027 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.002 C 999 240 VERT(CL): 0.005 C 999 180 HORZ(LL): 0.001 A - - HORZ(TL): 0.002 A - - Creep Factor: 2.0 Max TC CSI: 0.080 Max BC CSI: 0.140 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 188 /- /- /97 /20 /23 C 188 /- /- /97 /20 /- Wind reactions based on MWFRS A Brg Wid = 6.0 Min Req = 1.5 C Brg Wid = 6.0 Min Req = 2.6 Bearings A & C are a rigid surface. Members not listed have forces less than 375#

Lumber

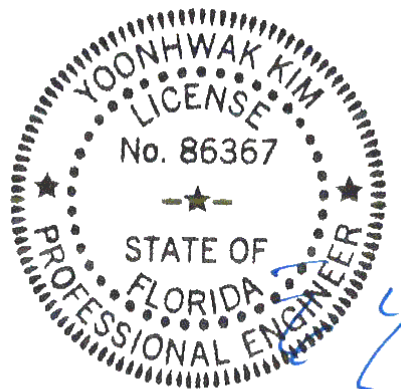
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 1'-4"-9".



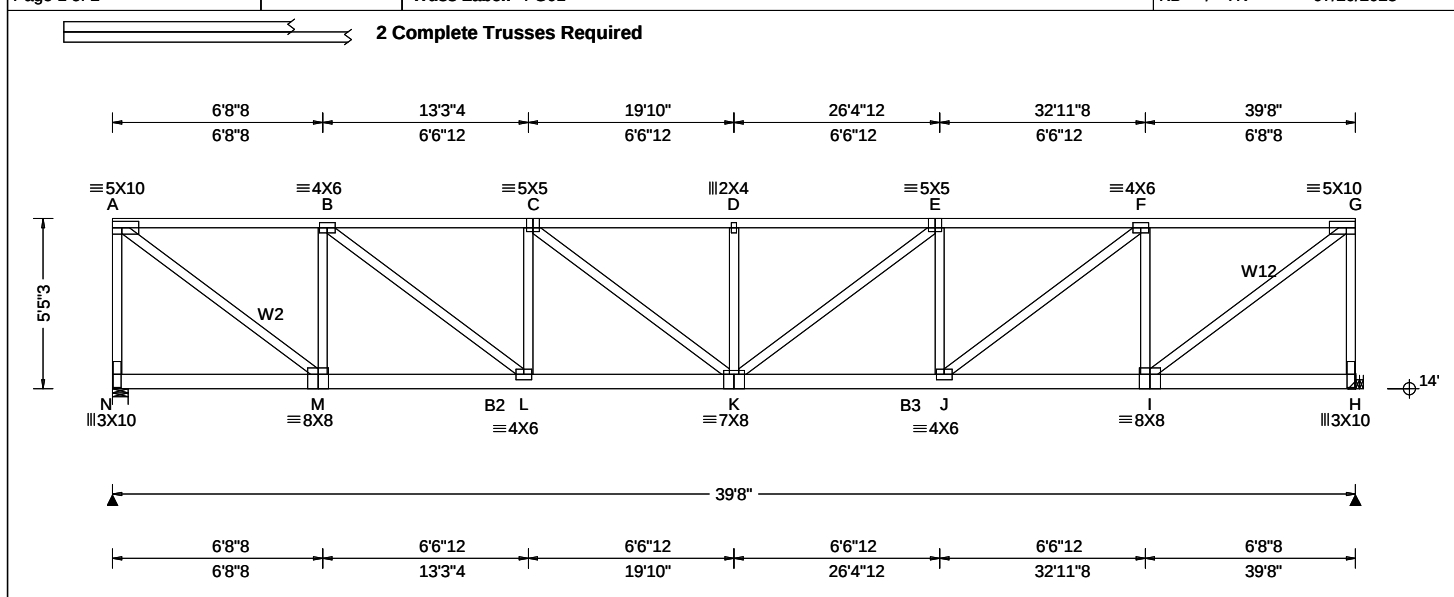
FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida State Seal of Product Approval #FL 1999

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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 19.43 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.97 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.337 D 999 240 VERT(CL): 0.623 D 764 180 HORZ(LL): 0.090 A - - HORZ(TL): 0.167 A - - Creep Factor: 2.0 Max TC CSI: 0.727 Max BC CSI: 0.553 Max Web CSI: 0.802 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 4795 -/- /- /- /1822 -/ H 4890 -/- /- /- /1860 -/ Wind reactions based on MWFRS N Brg Wid = 6.0 Min Req = 2.8 (Truss) H Brg Wid = - Min Req = - Bearing N is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 1068 -2808 D - E 1899 -4990 B - C 1684 -4426 E - F 1685 -4429 C - D 1899 -4990 F - G 1071 -2815

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x6 SP #2; B2,B3 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W12 2x4 SP #2;

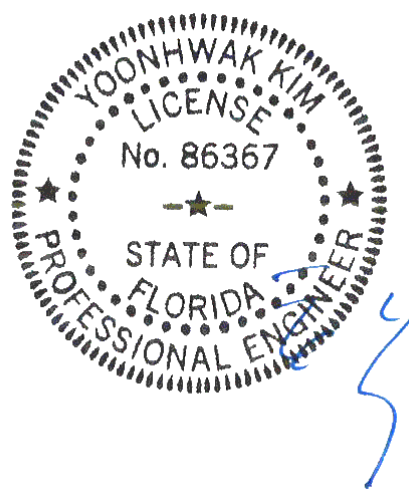
Nailnote
Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 7.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 27 plf at 0.00 to 27 plf at 39.67
BC: From 10 plf at 0.00 to 10 plf at 39.67
BC: 433 lb Conc. Load at 2.06, 4.06, 6.06, 8.06
10.06,12.06,14.06,16.06,18.06,20.06,22.06,24.06
26.06,28.06,30.06,32.06,34.06,36.06,38.06

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.

Additional Notes
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 5'-5-3/4\"/>



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

SEQN: 466081	FLAT	Ply: 2	Job Number: 23-9417	Cust: R 215 JRef: 1XRI2150003 T54
FROM: CDM		Qty: 1	Elfers	DrwNo: 201.23.0800.48000
Page 2 of 2			Truss Label: FG01	KD / YK 07/20/2023

Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

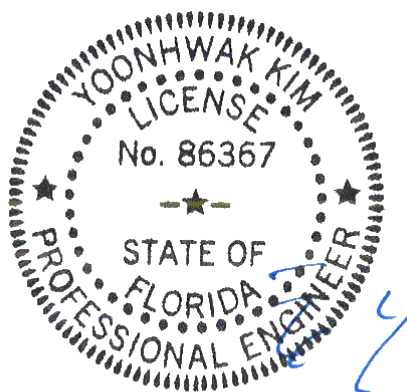
Bearing at location x=39'5" uses the following support conditions: 39'5"

Bearing H (39'5", 14') HGUS28-2

Supporting Member: (2)2x8 SP #2

(36) 0.148"x3" nails into supporting member,

(12) 0.148"x3" nails into supported member.



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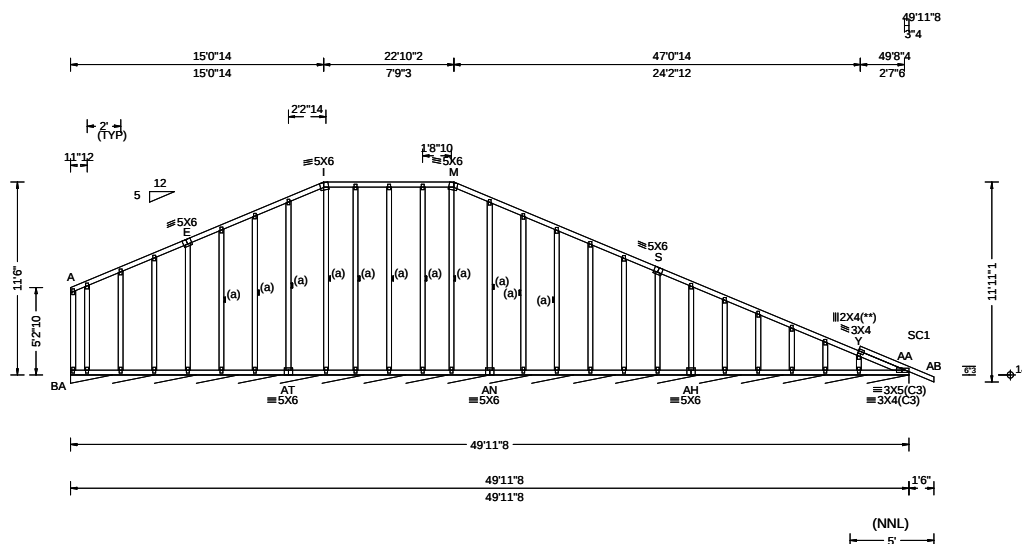
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155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 466059 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: G01	Cust: R 215 JRef: 1XRI2150003 T55 DrwNo: 201.23.0800.49980 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 19.70 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 5.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.002 AA 999 240 VERT(CL): 0.003 AA 999 180 HORZ(LL): 0.015 N - - HORZ(TL): 0.020 N - - Creep Factor: 2.0 Max TC CSI: 0.186 Max BC CSI: 0.078 Max Web CSI: 0.131 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AA*77 /- /- /39 /17 /6 Wind reactions based on MWFRS AA Brg Wid = 599 Min Req = - Bearing BA is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 24" oc.

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.

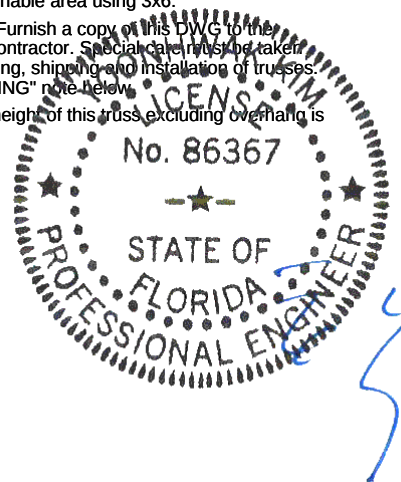
Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

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.

The overall height of this truss excluding overhang is 11'-6".



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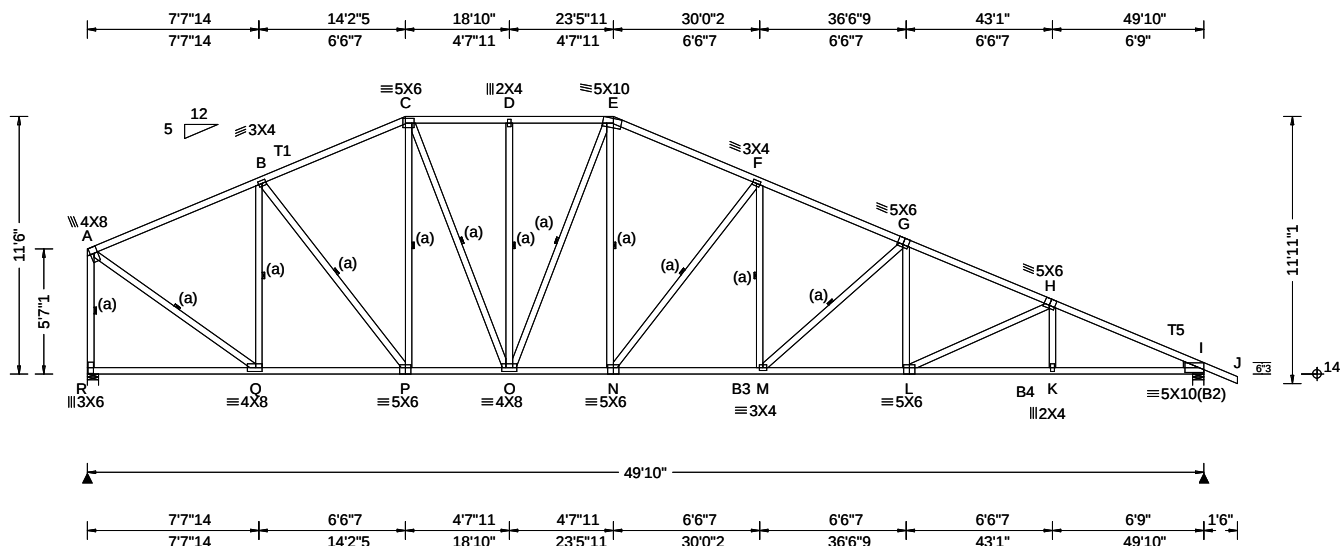
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466060 FROM: CDM	COMN Ply: 1 Qty: 19	Job Number: 23-9417 Elfers Truss Label: G02	Cust: R 215 JRef: 1XRI2150003 T62 DrwNo: 201.23.0800.52713 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 19.70 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.98 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.362 M 999 240 VERT(CL): 0.600 M 994 180 HORZ(LL): 0.125 I - - HORZ(TL): 0.207 I - - Creep Factor: 2.0 Max TC CSI: 0.901 Max BC CSI: 0.753 Max Web CSI: 0.826 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 2276 - / - / - / 905 / 356 / 304 I 2211 - / - / - / 1137 / 456 - Wind reactions based on MWFRS R Brg Wid = 6.0 Min Req = 2.7 (Truss) I Brg Wid = 6.0 Min Req = 1.8 (Truss) Bearings R & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 327 -1988 E - F 507 -2803 B - C 417 -2332 F - G 643 -3523 C - D 438 -2377 G - H 767 -4131 D - E 438 -2377 H - I 854 -4480

Lumber

Top chord: 2x4 SP #2; T1, T5 2x4 SP M-31;
Bot chord: 2x4 SP #2; B3, B4 2x4 SP M-31;
Webs: 2x4 SP #3;
Rt Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 24" oc.

Wind

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

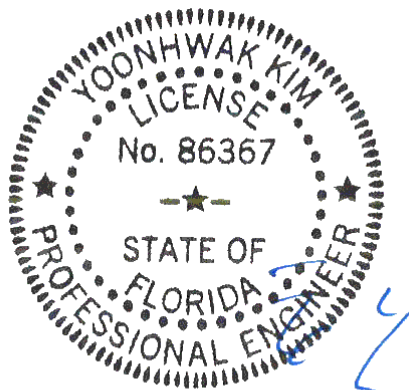
Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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.

The overall height of this truss excluding overhang is 11-6-0.

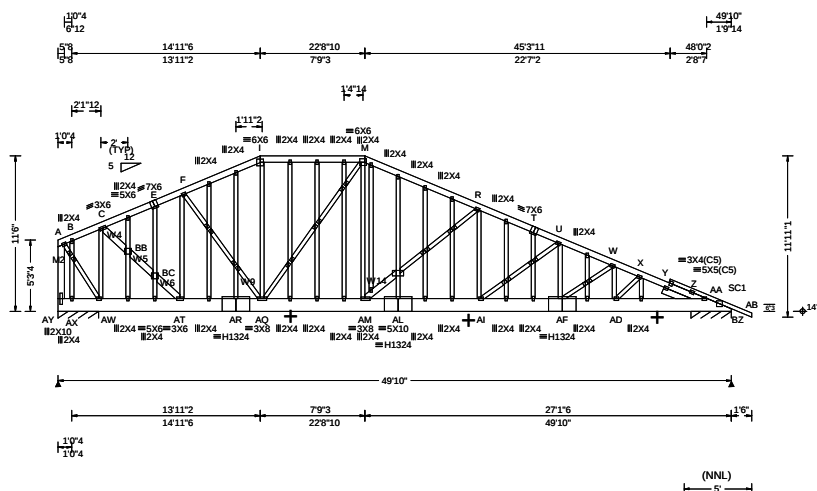


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Glenview, IL 60025

4 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.028 Q 999 240 VERT(CL): 0.052 Q 999 180 HORZ(LL): 0.007 I - - HORZ(TL): 0.013 I - - Creep Factor: 2.0 Max TC CSI: 0.066 Max BC CSI: 0.169 Max Web CSI: 0.121 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AY*645 /- /- /317 /171 /97 BZ*662 /- /- /381 /188 /- AY /-564 AX /-270 Wind reactions based on MWFRS AY Brg Wid = 36.0 Min Req = - BZ Brg Wid = 36.0 Min Req = - Bearings AY & Z are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

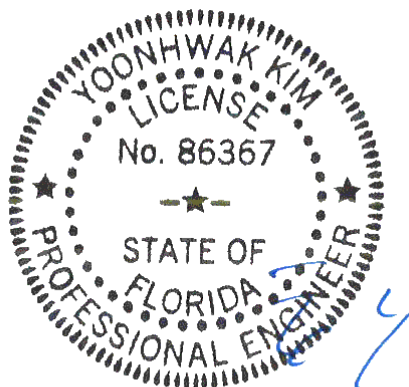
Lumber
Top chord: 2x6 SP #2;
Bot chord: 2x12 SP #2;
Webs: 2x4 SP #3; W4,W5,W6,W14,M2 2x6 SP #2;
W9 2x4 SP #2;
Stack Chord: SC1 2x4 SP #2;
Rt Slider: 2x6 SP #2; block length = 2.200'

Nailnote
Nail Schedule: 0.131"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.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.
In addition, apply (1) 0.22"-0.25" min/max dia. X 6.0" length wood screw at each joint location.

Plating Notes
All plates are 3X4 except as noted.

Purlins
In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 24" oc.

Wind
Wind loads based on MWFRS.
Left end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.
+ Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.



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SEQN: 466082	GABL	Ply: 4	Job Number: 23-9417	Cust: R 215 JRef: 1XRI2150003 T56
FROM: CDM		Qty: 1	Elfers	DrwNo: 201.23.0802.29513
Page 2 of 2			Truss Label: G03	KD / YK 07/20/2023

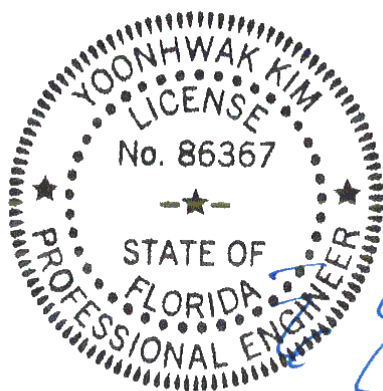
Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

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The overall height of this truss excluding overhang is 11-6-0.



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 07/20/2023
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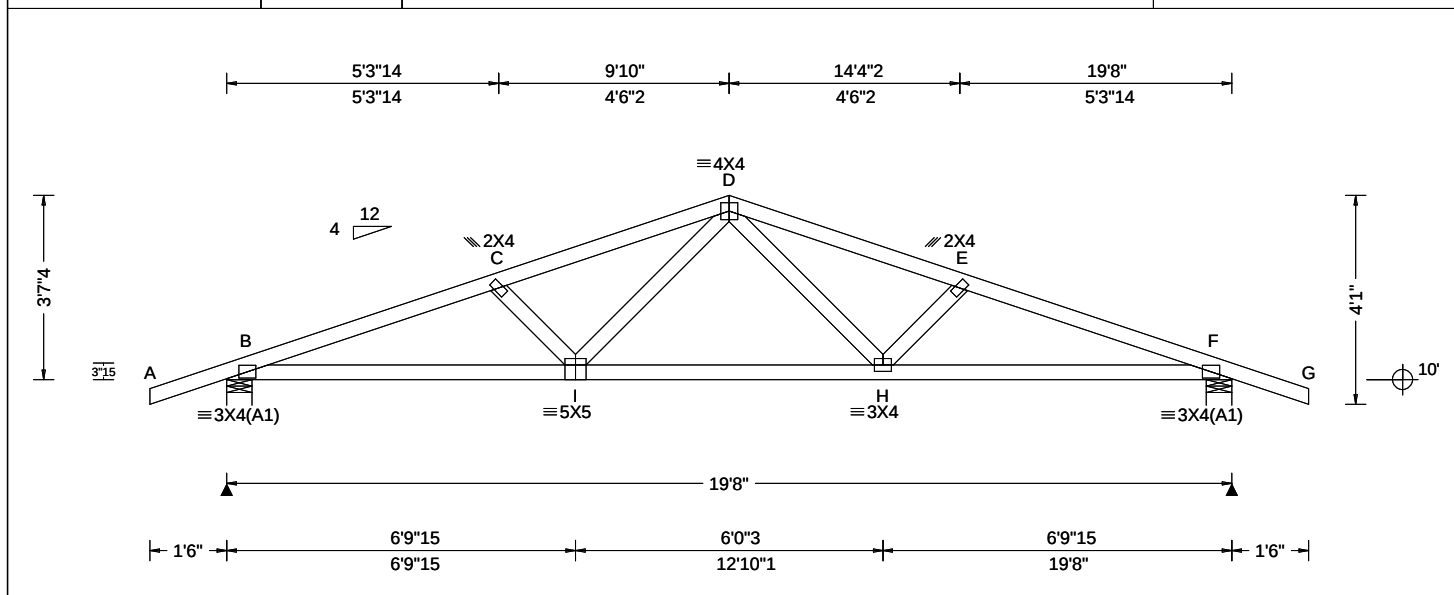
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155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 466061 FROM: CDM	COMN Ply: 1 Qty: 5	Job Number: 23-9417 Elfers Truss Label: H01	Cust: R 215 JRef: 1XRI2150003 T51 DrwNo: 201.23.0802.31440 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.076 D 999 240 VERT(CL): 0.138 D 999 180 HORZ(LL): 0.023 F - - HORZ(TL): 0.042 F - - Creep Factor: 2.0 Max TC CSI: 0.219 Max BC CSI: 0.489 Max Web CSI: 0.166 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL B 824 /- /- /407 /230 /74 F 824 /- /- /365 /230 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 F Brg Wid = 6.0 Min Req = 2.6 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 466 -1632 D - E 423 -1455 C - D 424 -1454 E - F 466 -1633

Lumber

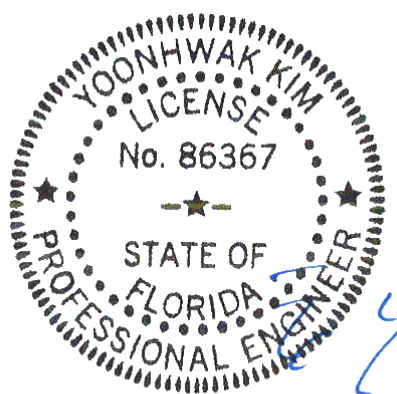
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 3'-7-4.

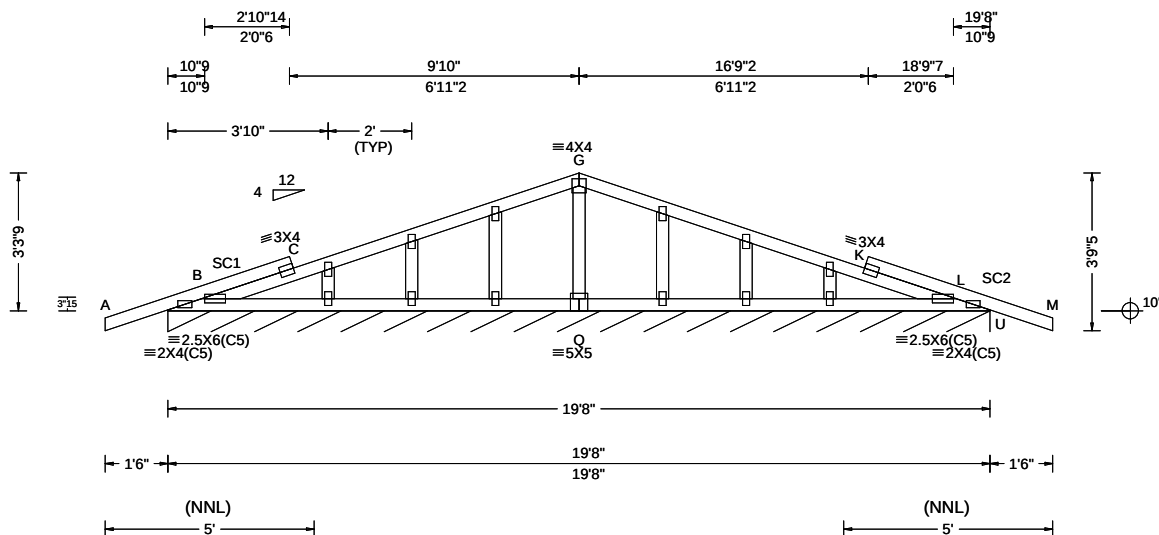


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North Building, 4th Floor
Glenview, IL 60025

SEQN: 466062 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: H02	Cust: R 215 JRef: 1XRI2150003 T52 DrwNo: 201.23.0802.33027 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.002 K 999 240 VERT(CL): 0.005 B 999 180 HORZ(LL): 0.001 K - - HORZ(TL): 0.001 K - - Creep Factor: 2.0 Max TC CSI: 0.199 Max BC CSI: 0.063 Max Web CSI: 0.026 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL U* 84 /- /- /37 /23 /4 Wind reactions based on MWFRS U Brg Wid = 236 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Wind

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

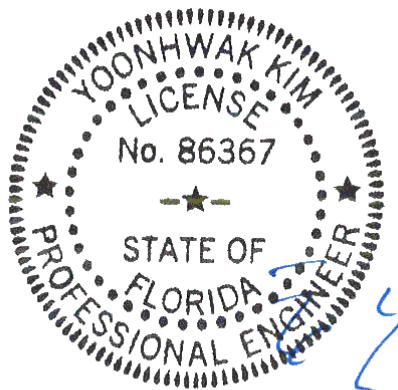
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss excluding overhang is 3-3-9.



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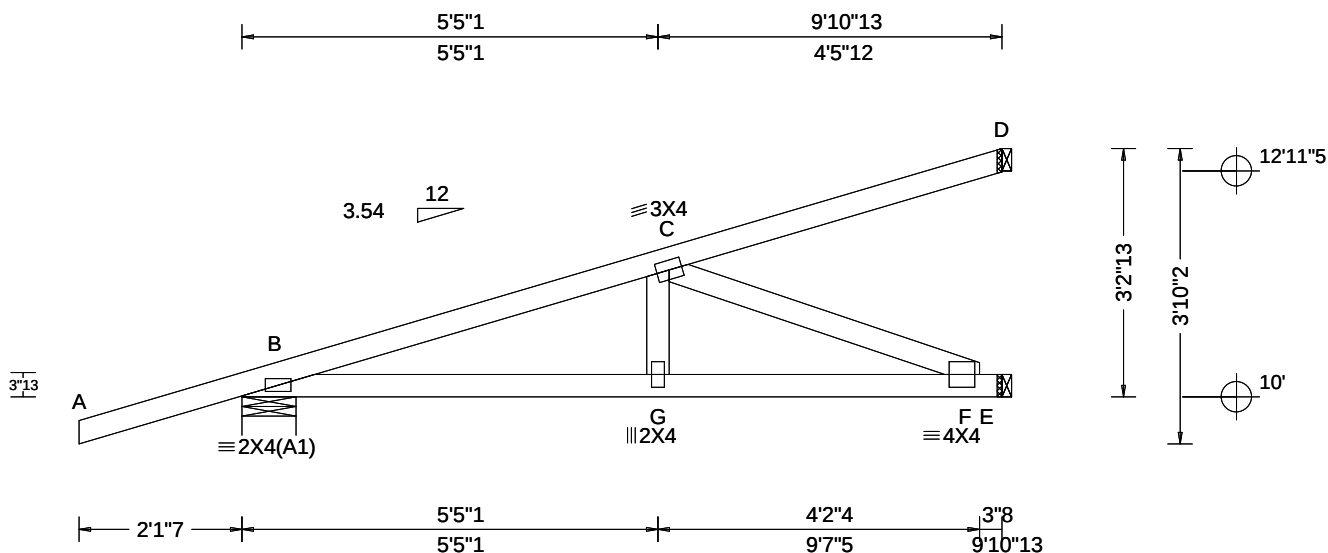
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466094 FROM: CDM	HIP_	Ply: 1 Qty: 6	Job Number: 23-9417 Elfers Truss Label: HJ01	Cust: R 215 JRef: 1XRI2150003 T14 DrwNo: 201.23.0802.38637 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.027 G 999 240 VERT(CL): 0.050 G 999 180 HORZ(LL): 0.006 F - - HORZ(TL): 0.011 F - - Creep Factor: 2.0 Max TC CSI: 0.509 Max BC CSI: 0.525 Max Web CSI: 0.325 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 418 -/- /- /125 -/ E 352 -/- /- /51 -/ D 216 -/- /- /101 -/ Wind reactions based on MWFRS B Brg Wid = 8.5 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. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 204 -774 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - G 725 -188 G - F 716 -191 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. C - F 206 -772

Lumber

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

Loading

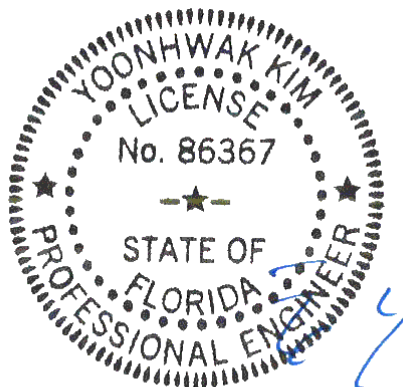
Hipjack supports 7-0-0 setback jacks with no webs.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 3-2-13.

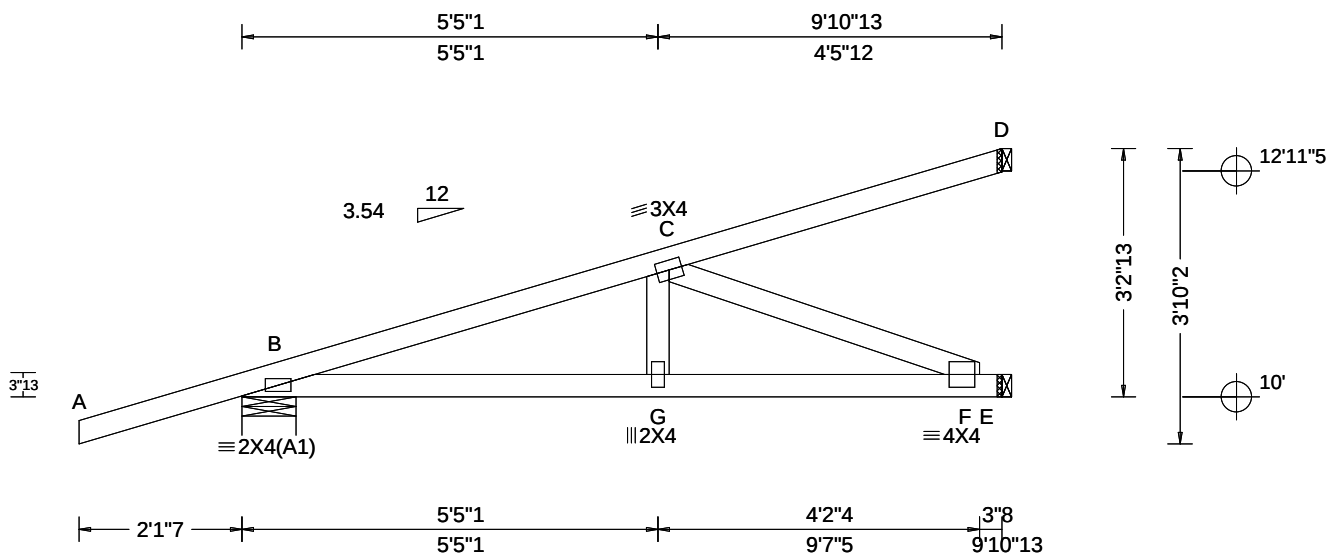


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466096 FROM: CDM	HIP_	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: HJ02	Cust: R 215 JRef: 1XRI2150003 T15 DrwNo: 201.23.0803.02060 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.027 G 999 240 VERT(CL): 0.050 G 999 180 HORZ(LL): 0.006 F - - HORZ(TL): 0.011 F - - Creep Factor: 2.0 Max TC CSI: 0.509 Max BC CSI: 0.525 Max Web CSI: 0.325 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 418 /- /- /- /125 /- E 352 /- /- /- /51 /- D 216 /- /- /- /101 /- Wind reactions based on MWFRS B Brg Wid = 8.5 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. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 204 -774

Lumber

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

Loading

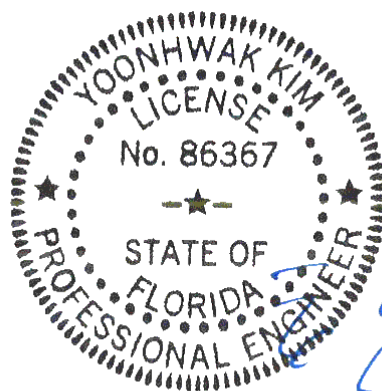
Hipjack supports 7-0-0 setback jacks with no webs.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 3-2-13.

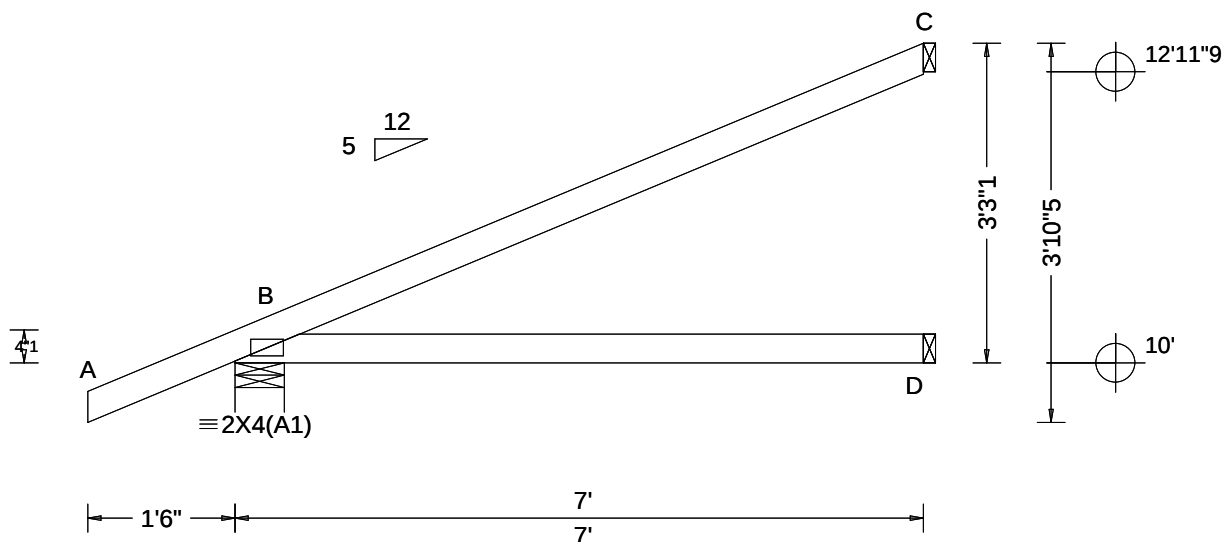


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155 Harlem Ave
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Glenview, IL 60025

SEQN: 466063 FROM: CDM	EJAC Ply: 1 Qty: 40	Job Number: 23-9417 Elfers Truss Label: J01	Cust: R 215 JRef: 1XRI2150003 T12 DrwNo: 201.23.0803.05037 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.015 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.629 Max BC CSI: 0.485 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 370 /- /- /230 /82 /120 D 125 /- /- /68 /- /- C 166 /- /- /84 /92 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

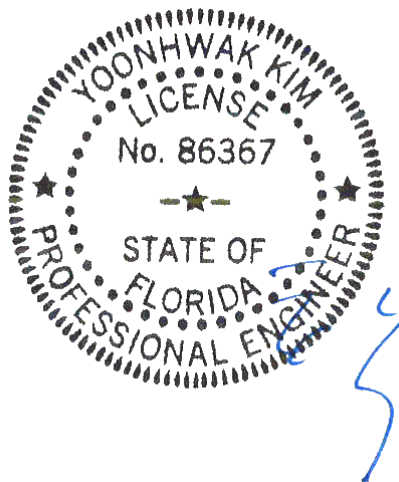
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 3-3-1.



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 999

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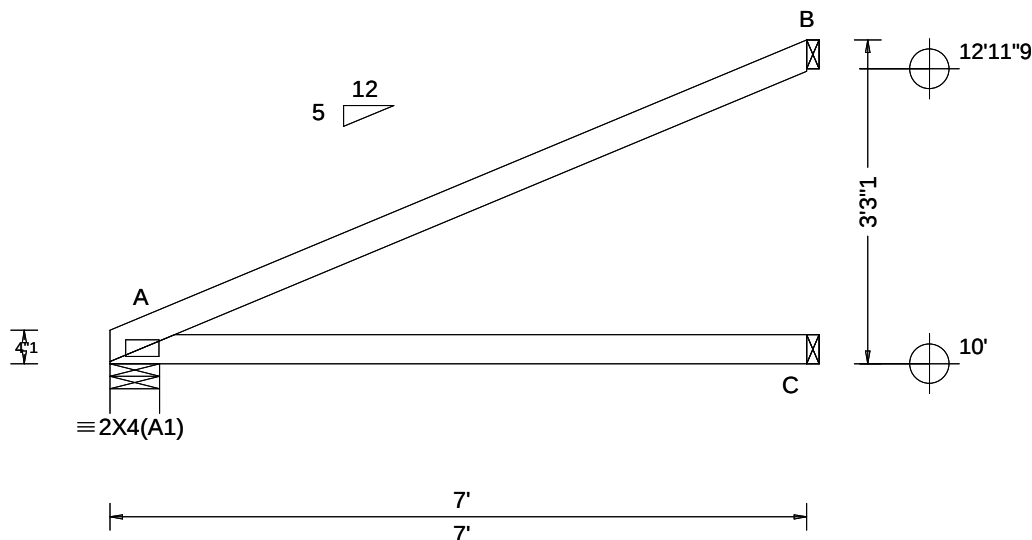
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466064 FROM: CDM	EJAC Ply: 1 Qty: 3	Job Number: 23-9417 Elfers Truss Label: J02	Cust: R 215 JRef: 1XRI2150003 T13 DrwNo: 201.23.0803.06503 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.017 A - - HORZ(TL): 0.032 A - - Creep Factor: 2.0 Max TC CSI: 0.675 Max BC CSI: 0.500 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 269 /- /- /155 /48 /102 C 127 /- /- /73 /- /- B 172 /- /- /89 /94 /- Wind reactions based on MWFRS A Brg Wid = 6.0 Min Req = 1.5 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

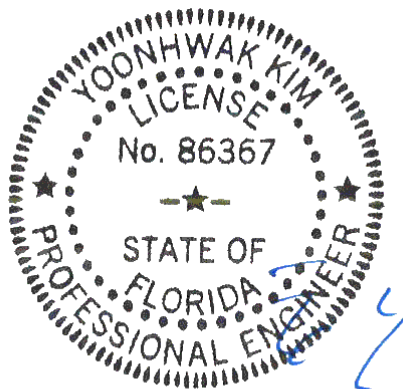
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 3-3-1.



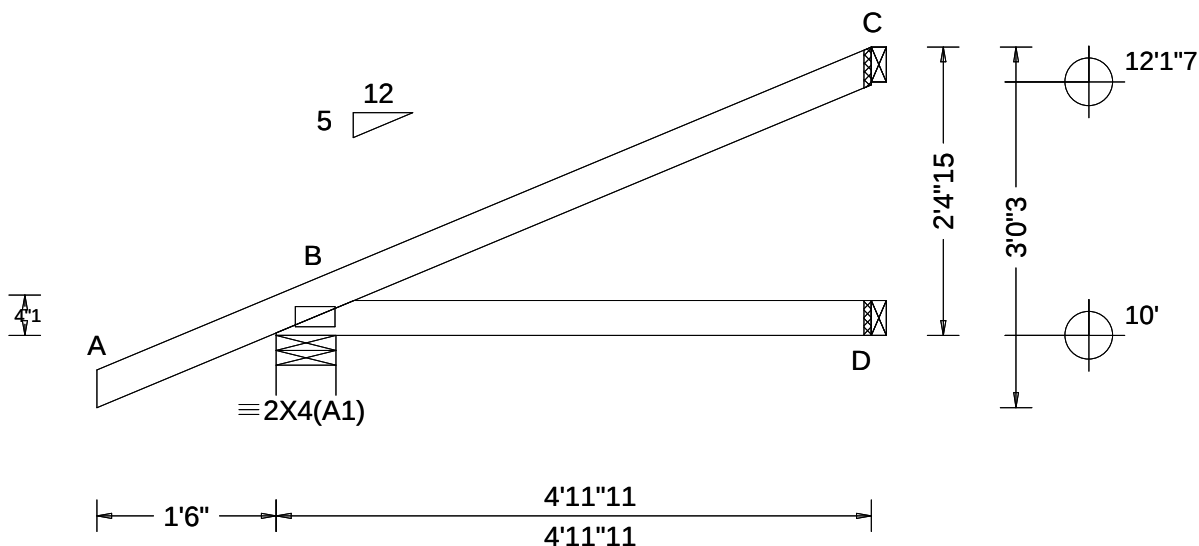
FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida State Seal of Product Approval #FL 1999

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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 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 298 /- /- /190 /69 /90
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 B - -	D 87 /- /- /46 /- /-
	EXP: C Kzt: NA		HORZ(TL): 0.008 B - -	C 112 /- /- /56 /63 /-
Des Ld: 37.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
NCBCLL: 10.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.269	B Brg Wid = 6.0 Min Req = 1.5
Soffit: 2.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.219	D Brg Wid = 1.5 Min Req = -
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000	C Brg Wid = 1.5 Min Req = -
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Bearing B is a rigid surface.
	Loc. from endwall: not in 4.50 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18			
	Wind Duration: 1.25	WAVE	VIEW Ver: 22.02.00.0914.12	

Lumber

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

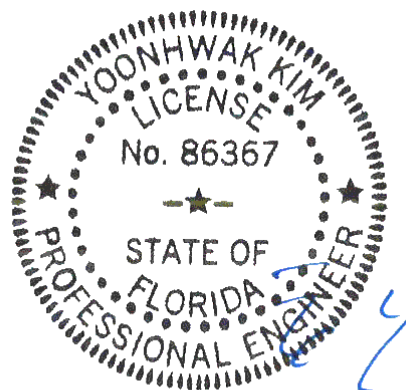
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-4-15.



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Florida Certificate of Product Approval #FL 1999-00025

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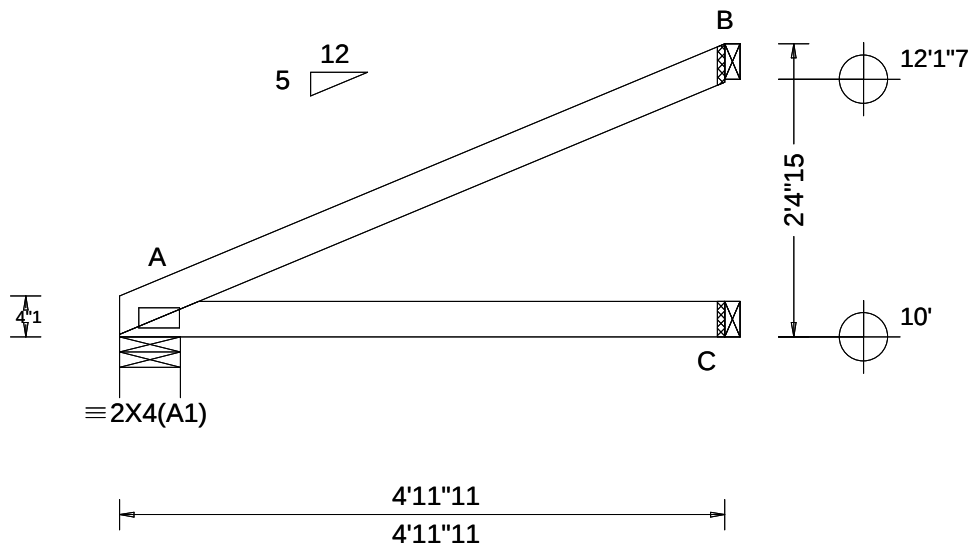
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466066 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: J04	Cust: R 215 JRef: 1XRI2150003 T9 DrwNo: 201.23.0803.10400 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.011 A - - Creep Factor: 2.0 Max TC CSI: 0.312 Max BC CSI: 0.231 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 193 /- /- /111 /34 /73 C 89 /- /- /51 /- /- B 121 /- /- /62 /66 /- Wind reactions based on MWFRS A Brg Wid = 6.0 Min Req = 1.5 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

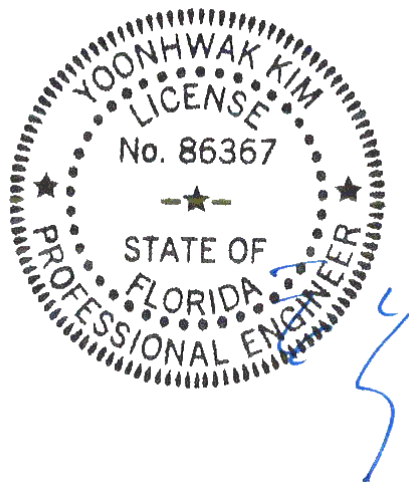
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 2'-4"-15".



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Florida Certificate of Product Approval #FL 1999

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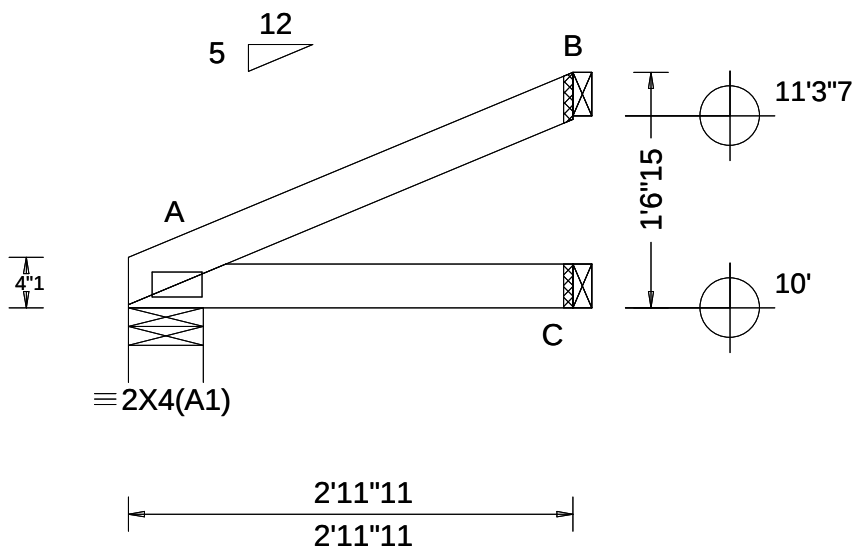
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155 Harlem Ave
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Glenview, IL 60025

SEQN: 466068 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: J06	Cust: R 215 JRef: 1XRI2150003 T10 DrwNo: 201.23.0803.13773 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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 A - - HORZ(TL): 0.002 A - - Creep Factor: 2.0 Max TC CSI: 0.095 Max BC CSI: 0.078 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 118 /- /- /67 /20 /43 C 52 /- /- /30 /0 /- B 70 /- /- /36 /38 /- Wind reactions based on MWFRS A Brg Wid = 6.0 Min Req = 1.5 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

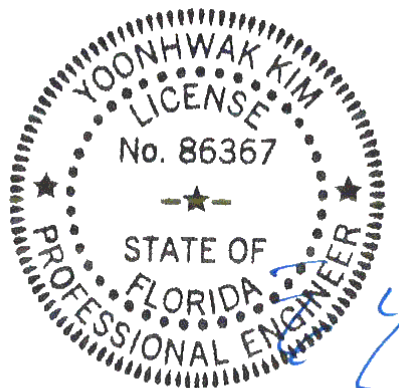
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 1'-6-15.



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Florida Certificate of Product Approval #FL 1999

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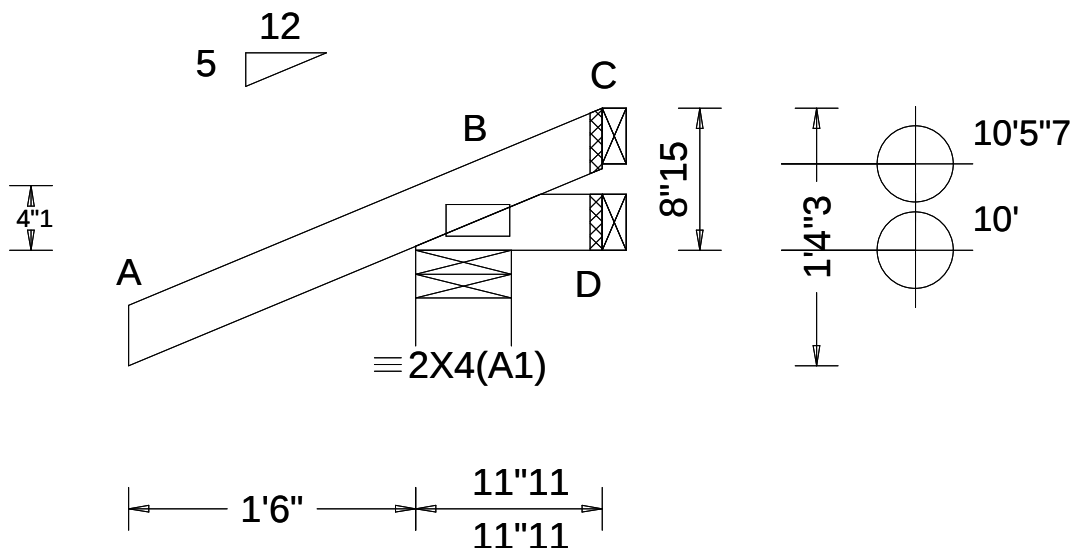
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466069 FROM: CDM	JACK Ply: 1 Qty: 13	Job Number: 23-9417 Elfers Truss Label: J07	Cust: R 215 JRef: 1XRI2150003 T8 DrwNo: 201.23.0803.15997 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.139 Max BC CSI: 0.019 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 229 /- /- /165 /88 /31 D 5 /-17 /- /17 /17 /- C - /-50 /- /36 /43 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

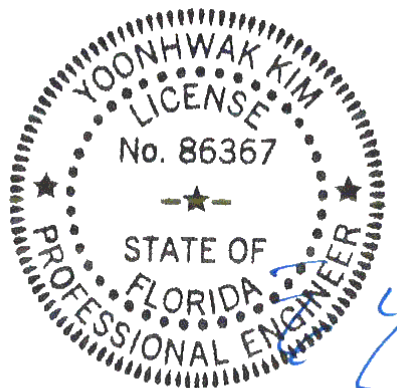
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 0-8-15.



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Florida Certificate of Product Approval #FL 1999

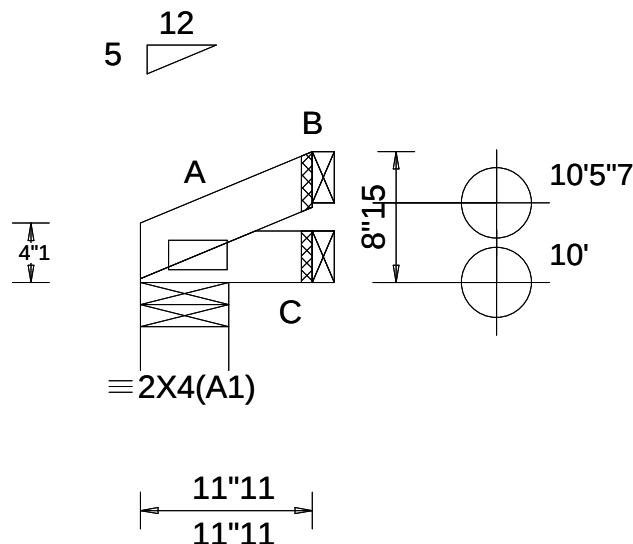
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

SEQN: 466070 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: J08	Cust: R 215 JRef: 1XRI2150003 T11 DrwNo: 201.23.0803.17970 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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: 0.006 Max BC CSI: 0.006 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 43 - / - /24 /6 /14 C 14 - / - /9 /2 - B 18 - / - /10 /10 - Wind reactions based on MWFRS A Brg Wid = 6.0 Min Req = 1.5 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

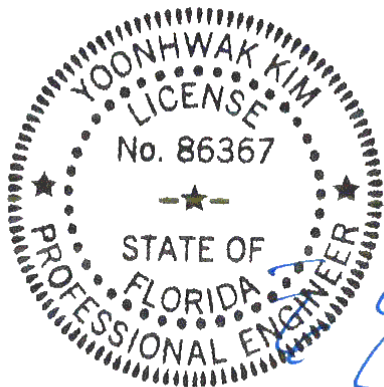
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 0-8-15.



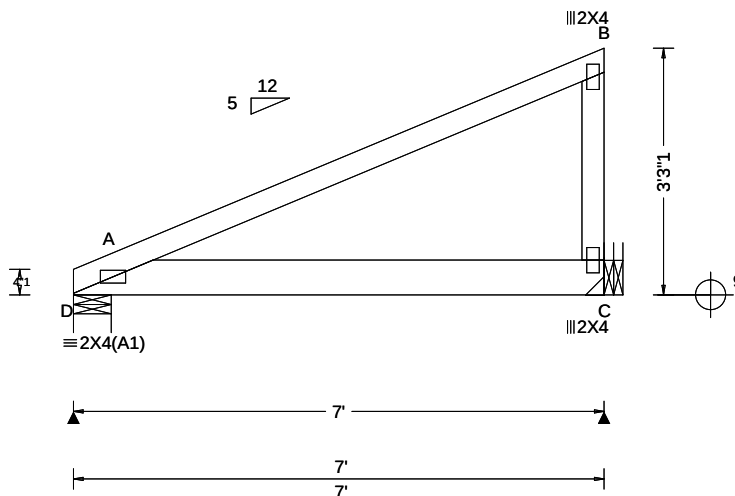
FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

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North Building, 4th Floor
Glenview, IL 60025

SEQN: 466085 FROM: CDM	EJAC Ply: 2 Qty: 1	Job Number: 23-9417 Elfers Truss Label: J09	Cust: R 215 JRef:1XRI2150003 T64 DrwNo: 201.23.0803.24673 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.027 A - - HORZ(TL): 0.050 A - - Creep Factor: 2.0 Max TC CSI: 0.673 Max BC CSI: 0.724 Max Web CSI: 0.248 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 1537 /- /- /- /232 /- C 1961 /- /- /- /277 /- Wind reactions based on MWFRS D Brg Wid = 6.0 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 3.50" 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 55 plf at 0.00 to 55 plf at 7.00
BC: From 10 plf at 0.00 to 10 plf at 7.00
BC: 1014 lb Conc. Load at 2.06, 4.06, 6.06

Hangers / Ties

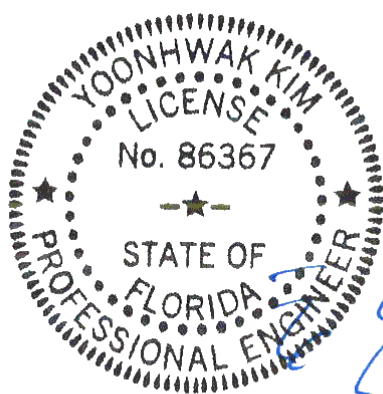
(J) Hanger Support Required, by others

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.

Additional Notes

The overall height of this truss excluding overhang is 3-3-1.

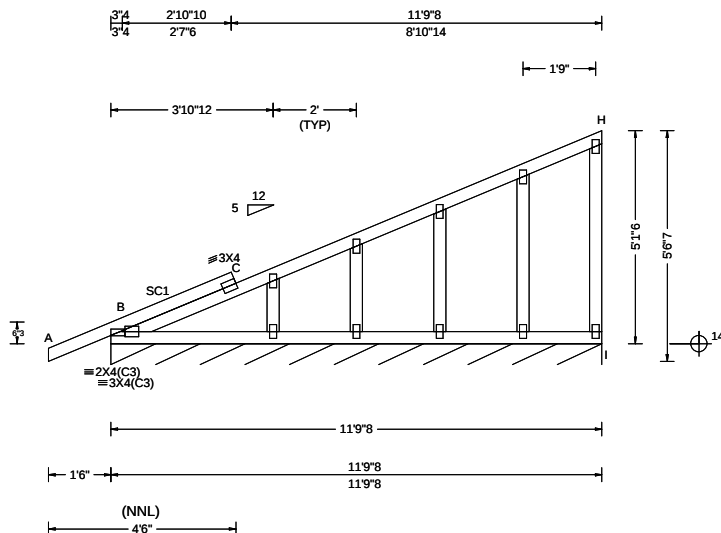


FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Department of Agriculture and Consumer Services
Florida Department of Agriculture and Consumer Services
Florida Department of Agriculture and Consumer Services

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

SEQN: 466071 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: M01	Cust: R 215 JRef: 1XRI2150003 T50 DrwNo: 201.23.0803.26753 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.50 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.003 C 999 240 VERT(CL): 0.005 C 999 180 HORZ(LL): -0.004 G - - HORZ(TL): 0.005 G - - Creep Factor: 2.0 Max TC CSI: 0.184 Max BC CSI: 0.079 Max Web CSI: 0.041 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I* 83 /- /- /50 /24 /17 Wind reactions based on MWFRS I Brg Wid = 141 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Wind

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

Right end vertical not exposed to wind pressure.

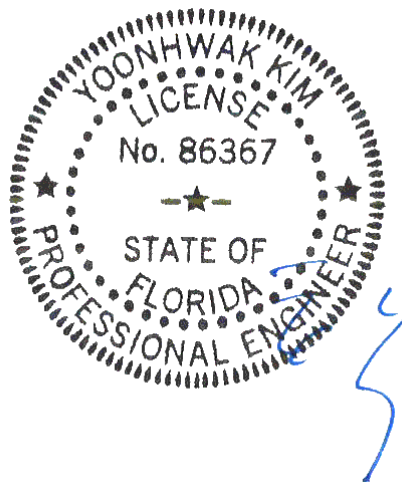
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

The overall height of this truss excluding overhang is 5'-1-6".



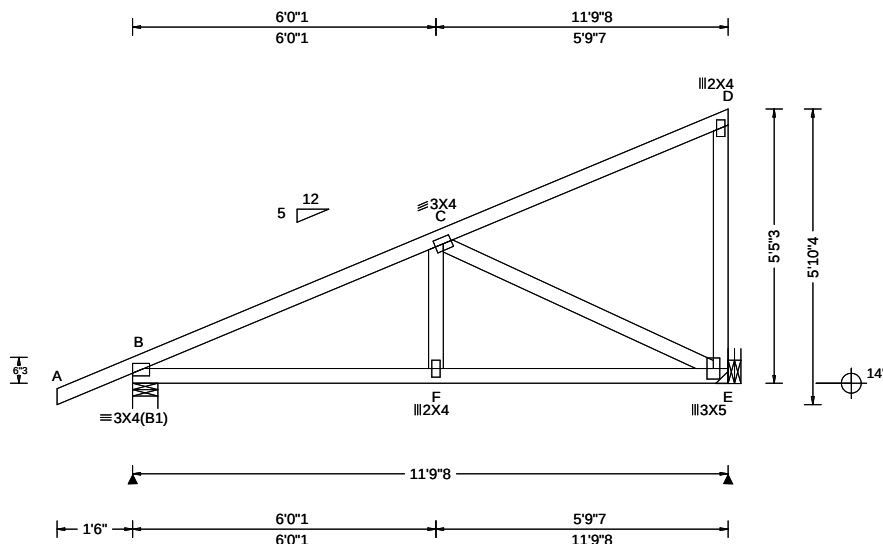
FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

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Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.66 ft TCDL: 4.2 psf BCDL: 3.0 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: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.016 F 999 240 VERT(CL): 0.030 F 999 180 HORZ(LL): 0.006 E - - HORZ(TL): 0.011 E - - Creep Factor: 2.0 Max TC CSI: 0.458 Max BC CSI: 0.433 Max Web CSI: 0.446 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 543 -/- /326 /126 /203 E 433 -/- /267 /170 -/ Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 94 -648

Lumber

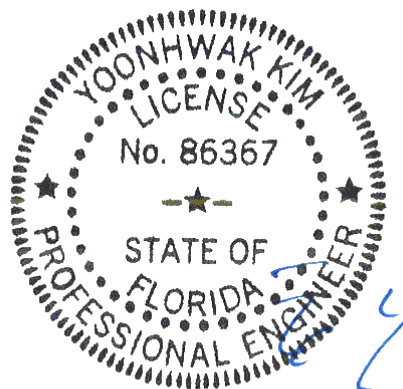
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5'-5-3.



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Florida State Seal of Professional Engineer

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	542 -217	F - E	538 -218

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - E	243 -598

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SEQN: 466072	MONO	Ply: 1	Job Number: 23-9417	Cust: R 215 JRef:1XRI2150003 T47
FROM: CDM		Qty: 19	Elfers	DrwNo: 201.23.0803.41710
Page 2 of 2			Truss Label: M02	KD / YK 07/20/2023

Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=11'6"8 uses the following support conditions: 11'6"8

Bearing E (11'6"8, 14') LUS26

Supporting Member: (2)2x6 SP #2

(4) 0.148"x3" nails into supporting member,

(3) 0.148"x3" nails into supported member.

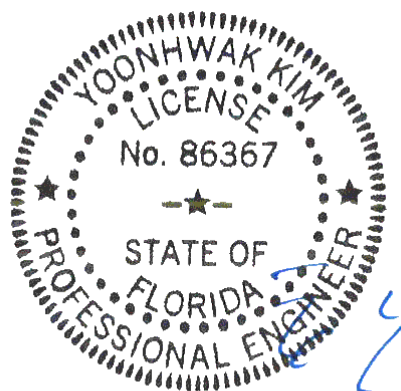
Bearing E (11'6"8, 14') LUS26

Supporting Member: (2)2x6 SP 2400f-2.0E

(4) 0.148"x3" nails into supporting member,

(3) 0.148"x3" nails into supported member.

(J) Hanger Support Required, by others



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Florida Certificate of Product Approval #FL 1999

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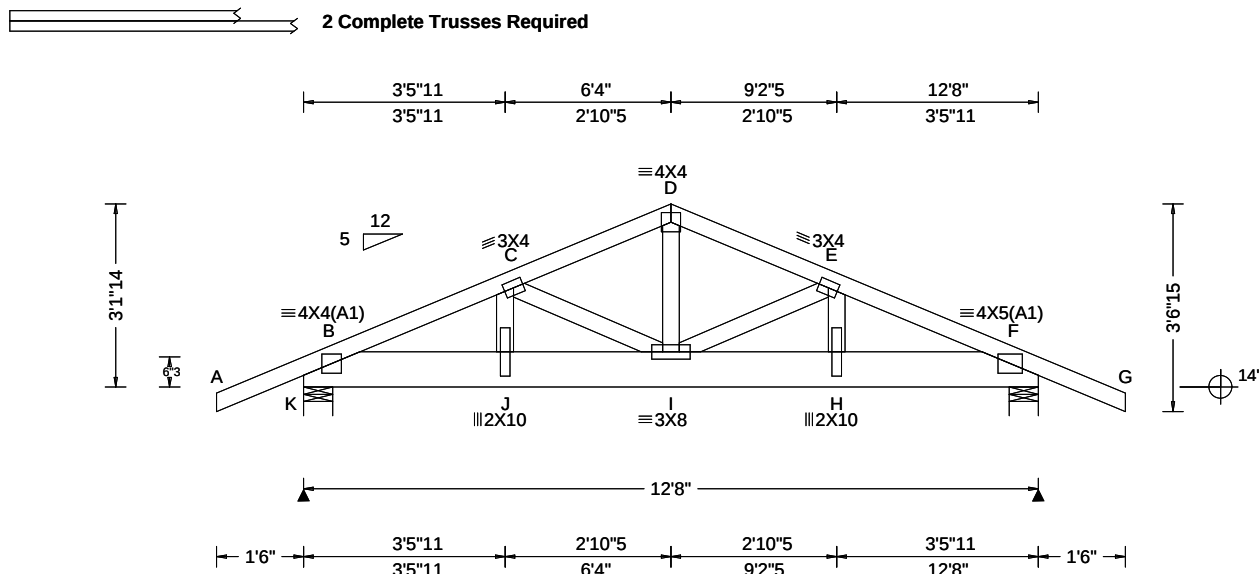
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466091 FROM: CDM	COMN Ply: 2 Qty: 1	Job Number: 23-9417 Elfers Truss Label: M03	Cust: R 215 JRef: 1XRI2150003 T49 DrwNo: 201.23.0804.12040 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.52 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.020 F 999 240 VERT(CL): 0.037 F 999 180 HORZ(LL): -0.004 F - - HORZ(TL): 0.008 F - - Creep Factor: 2.0 Max TC CSI: 0.297 Max BC CSI: 0.784 Max Web CSI: 0.172 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL K 804 /- /- /- /270 /- F 5217 /- /- /- /1948 /- Wind reactions based on MWFRS K Brg Wid = 6.0 Min Req = 1.5 (Truss) F Brg Wid = 6.0 Min Req = 3.1 (Truss) Bearings K & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 200 -629 D - E 196 -590 C - D 193 -585 E - F 435 -1247

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x8 SP #2;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.00" 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 55 plf at -1.50 to 55 plf at 14.17
BC: From 4 plf at -1.50 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 12.67
BC: From 4 plf at 12.67 to 4 plf at 14.17
BC: 4890 lb Conc. Load at 11.92

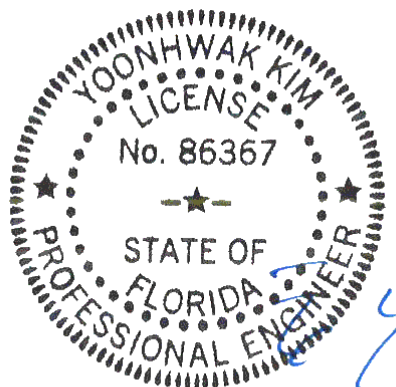
Wind

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

Additional Notes

The overall height of this truss excluding overhang is 3'-1-14.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida State Seal of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - J	566 -177	I - H	1136 -395
J - I	568 -179	H - F	1162 -404

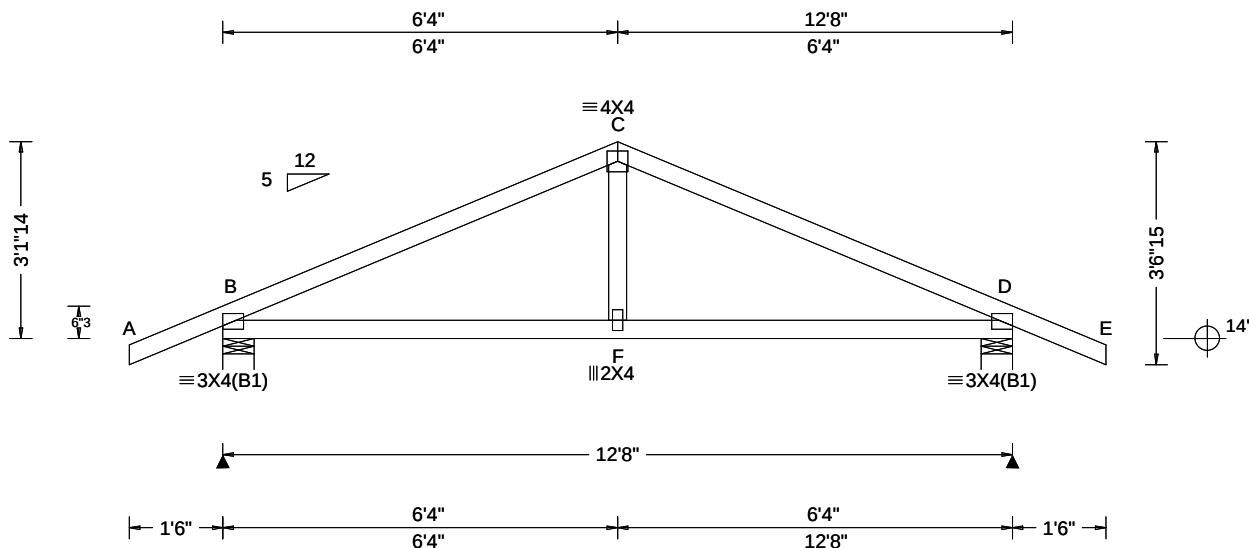
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - I	375 -107	E - H	450 -150
I - E	256 -697		

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

SEQN: 466073 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: M04	Cust: R 215 JRef:1XRI2150003 T45 DrwNo: 201.23.0804.23953 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.52 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.016 F 999 240 VERT(CL): 0.029 F 999 180 HORZ(LL): 0.006 D - - HORZ(TL): 0.011 D - - Creep Factor: 2.0 Max TC CSI: 0.312 Max BC CSI: 0.366 Max Web CSI: 0.101 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 565 /- /- /315 /161 /89 D 565 /- /- /315 /161 /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) D Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings B & D are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 192 -670 C - D 192 -670

Lumber

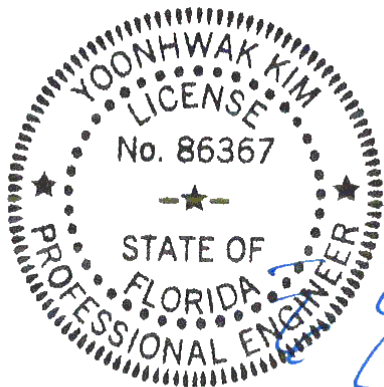
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 3-1-14.

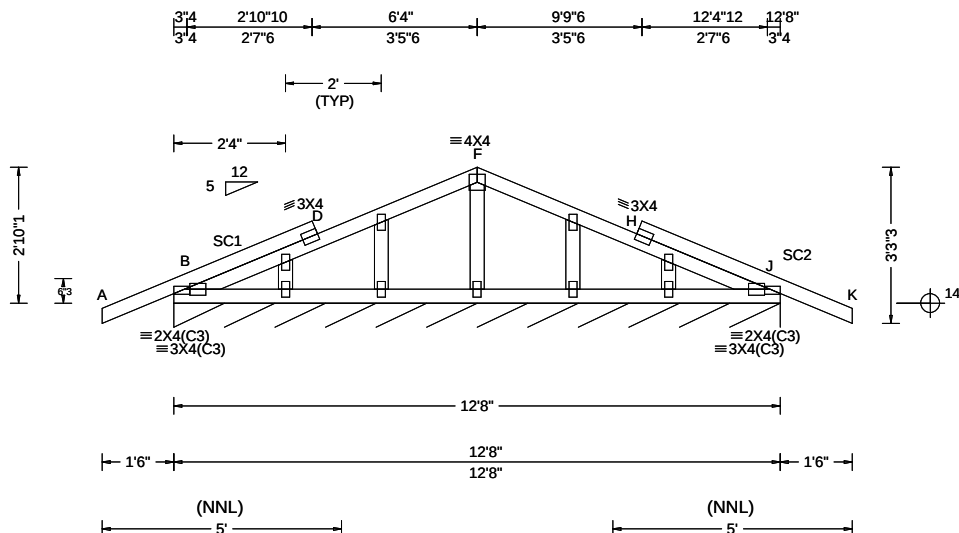


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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 466074 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: M05	Cust: R 215 JRef: 1XRI2150003 T29 DrwNo: 201.23.0804.26143 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.37 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.002 J 999 240 VERT(CL): 0.003 J 999 180 HORZ(LL): -0.001 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.192 Max BC CSI: 0.069 Max Web CSI: 0.027 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity J* 89 /- /- /38 /24 /7 Wind reactions based on MWFRS J Brg Wid = 152 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Wind

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

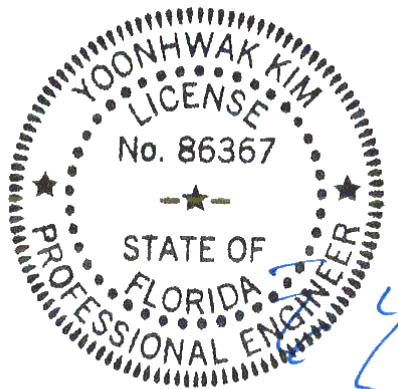
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss excluding overhang is 2-10-1.



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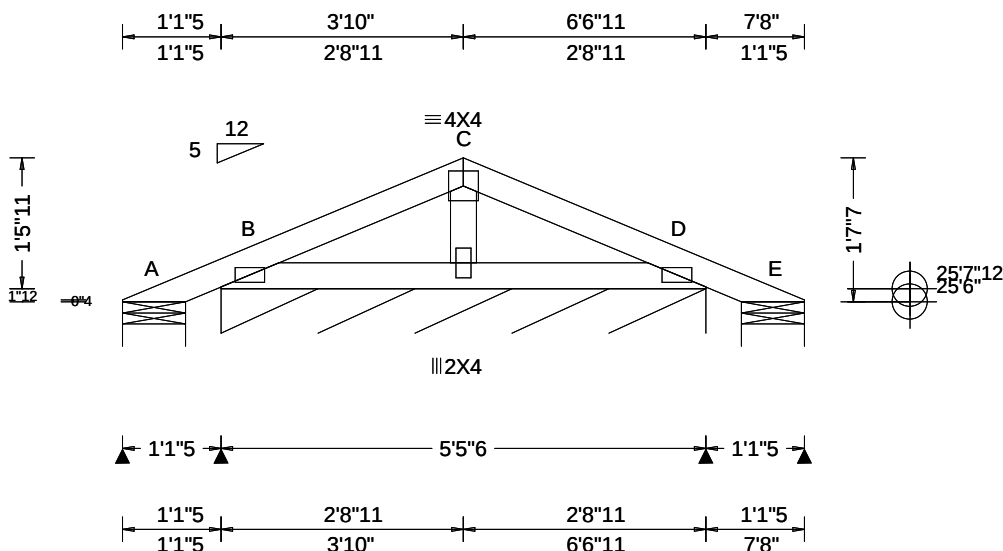
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466075 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: PB01	Cust: R 215 JRef:1XRI2150003 T53 DrwNo: 201.23.0804.29263 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 26.32 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.001 B 999 240 VERT(CL): 0.002 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.039 Max Web CSI: 0.016 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 6 /- /- /20 /14 /38 B* 74 /- /- /45 /31 /- E 6 /- /- /6 /1 /- Wind reactions based on MWFRS A Brg Wid = 8.5 Min Req = 1.5 (Truss) B Brg Wid = 65.4 Min Req = - E Brg Wid = 8.5 Min Req = 1.5 (Truss) Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(A1) except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

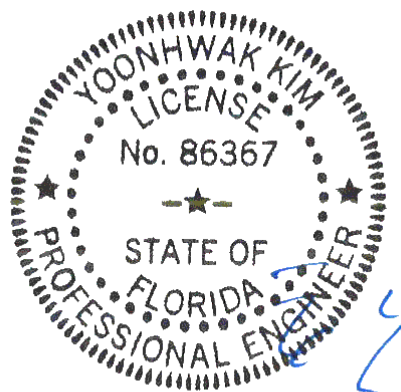
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 1'-7".



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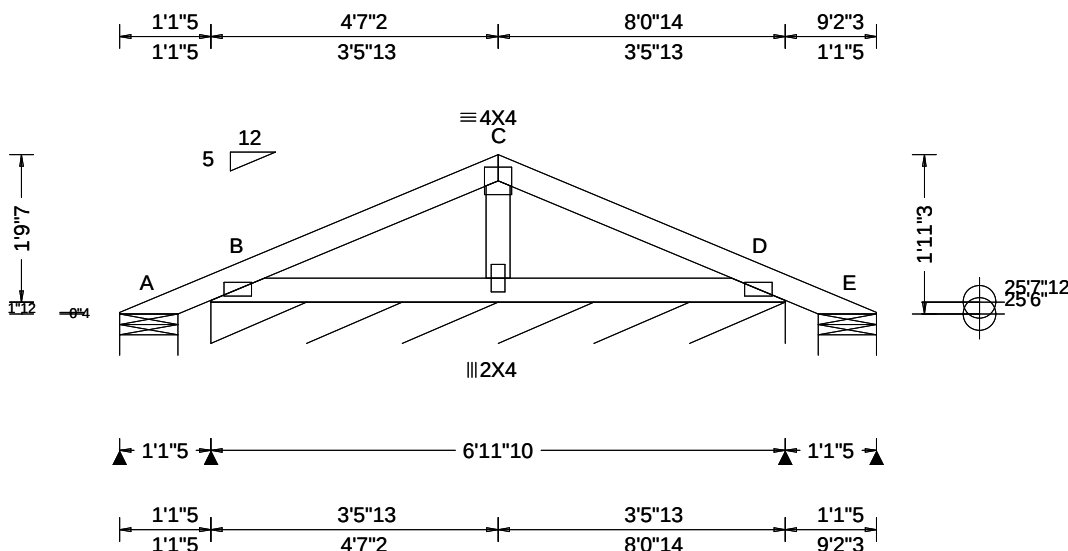
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466076 FROM: CDM	COMN Ply: 1 Qty: 19	Job Number: 23-9417 Elfers Truss Label: PB02	Cust: R 215 JRef:1XRI2150003 T61 DrwNo: 201.23.0804.31227 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 26.48 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.002 D 999 240 VERT(CL): 0.003 D 999 180 HORZ(LL): -0.001 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.102 Max BC CSI: 0.066 Max Web CSI: 0.020 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A - /-13 /- /25 /26 /46 B* 76 /- /- /46 /33 /- E - /-13 /- /10 /8 /- Wind reactions based on MWFRS A Brg Wid = 8.5 Min Req = 1.5 (Truss) B Brg Wid = 83.6 Min Req = - E Brg Wid = 8.5 Min Req = 1.5 (Truss) Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(A1) except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

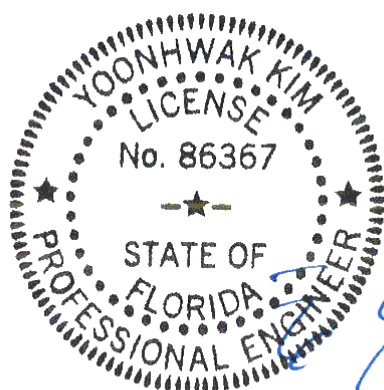
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 1-11-3.



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Florida State Seal of Product Approval #FL 1999

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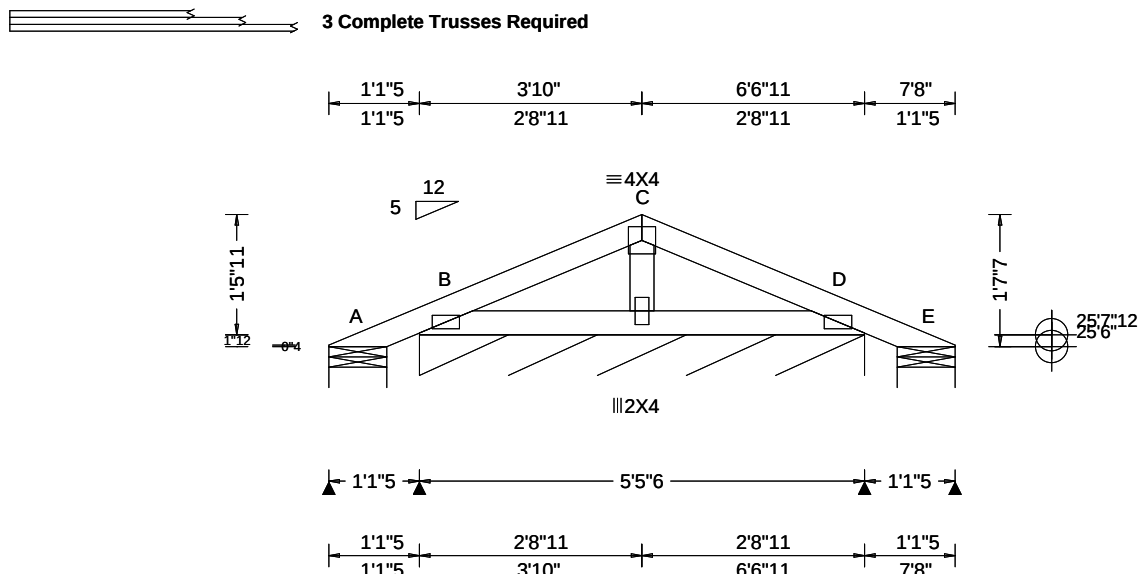
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466086 FROM: CDM	GABL Ply: 3 Qty: 1	Job Number: 23-9417 Elfers Truss Label: PB03	Cust: R 215 JRef: 1XRI2150003 T63 DrwNo: 201.23.0805.00323 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.019 Max BC CSI: 0.013 Max Web CSI: 0.005 VIEW Ver: 22.02.00.0914.12	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 6 /- /- /20 /14 /38 B* 74 /- /- /45 /31 /- E 6 /- /- /6 /1 /- Wind reactions based on MWFRS A Brg Wid = 8.5 Min Req = 1.5 (Truss) B Brg Wid = 65.4 Min Req = - E Brg Wid = 8.5 Min Req = 1.5 (Truss) Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Nailnote

Nail Schedule: 0.131"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.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Plating Notes

All plates are 2X4(A1) except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

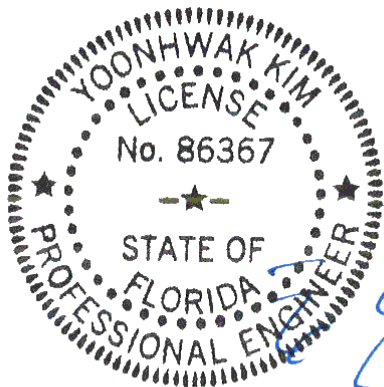
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 1'-7"-7".



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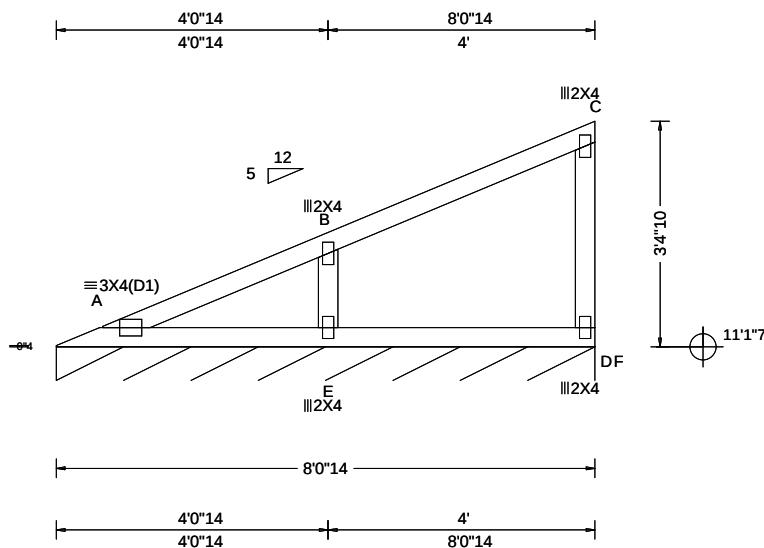
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466077 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: V01	Cust: R 215 JRef: 1XRI2150003 T48 DrwNo: 201.23.0805.02747 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.007 A 999 240 VERT(CL): 0.013 A 999 180 HORZ(LL): 0.001 A - - HORZ(TL): 0.003 A - - Creep Factor: 2.0 Max TC CSI: 0.242 Max BC CSI: 0.175 Max Web CSI: 0.047 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F* 75 /- /- /43 /9 /10 Wind reactions based on MWFRS F Brg Wid = 96.9 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

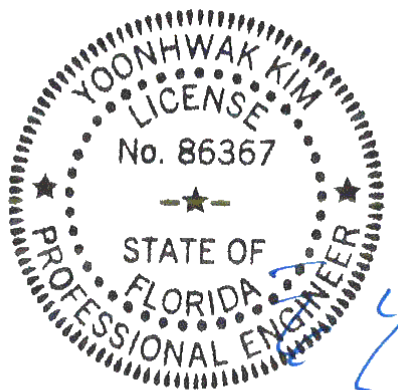
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 3-4-10.

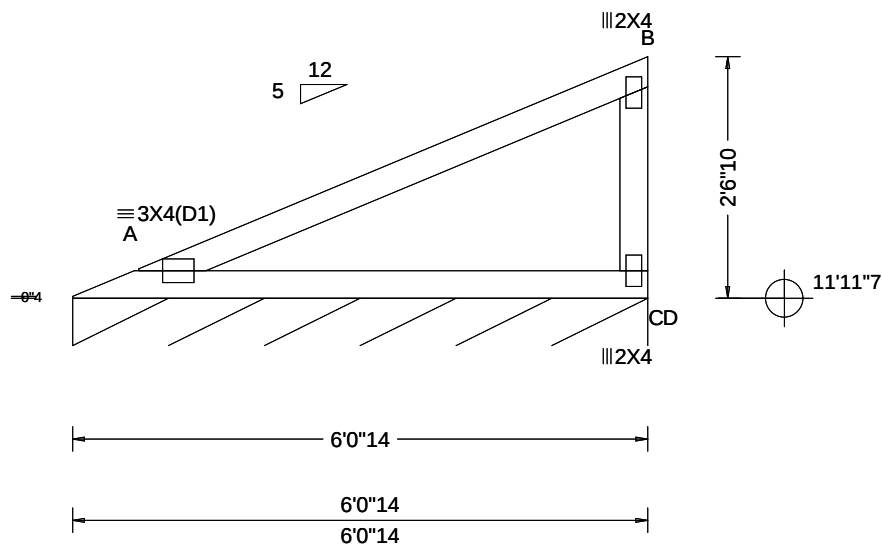


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466078 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: V02	Cust: R 215 JRef: 1XRI2150003 T57 DrwNo: 201.23.0805.04947 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.010 A - - HORZ(TL): 0.019 A - - Creep Factor: 2.0 Max TC CSI: 0.417 Max BC CSI: 0.375 Max Web CSI: 0.127 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 75 /- /- /42 /8 /9 Wind reactions based on MWFRS D Brg Wid = 72.9 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

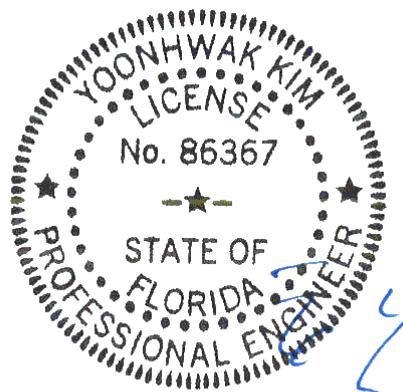
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 2'-6"-10".



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida State Seal of Product Approval #FL 1999

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

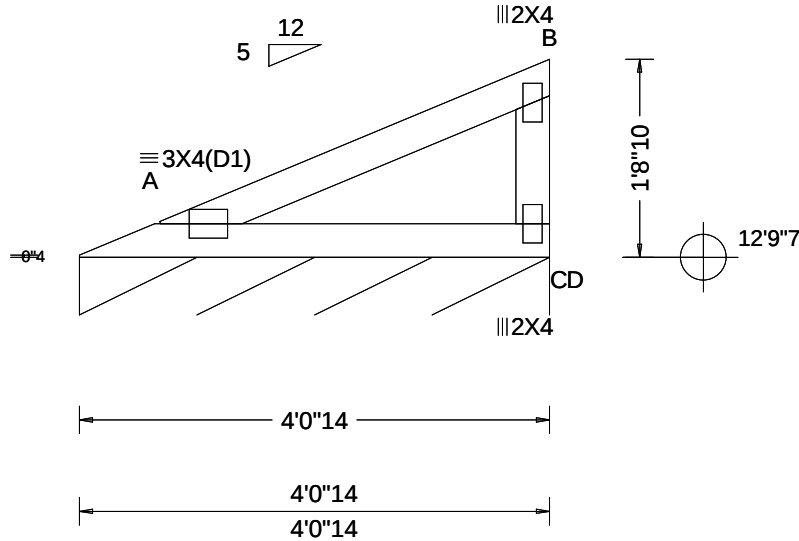
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SEQN: 466079 FROM: CDM	VAL	Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: V03	Cust: R 215 JRef: 1XRI2150003 T58 DrwNo: 201.23.0805.06343 KD / YK 07/20/2023
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.003 A - - HORZ(TL): 0.005 A - - Creep Factor: 2.0 Max TC CSI: 0.179 Max BC CSI: 0.143 Max Web CSI: 0.034 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 75 /- /- /41 /7 /9 Wind reactions based on MWFRS D Brg Wid = 48.9 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

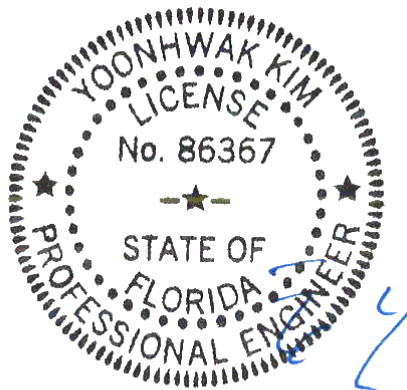
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 1-8-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

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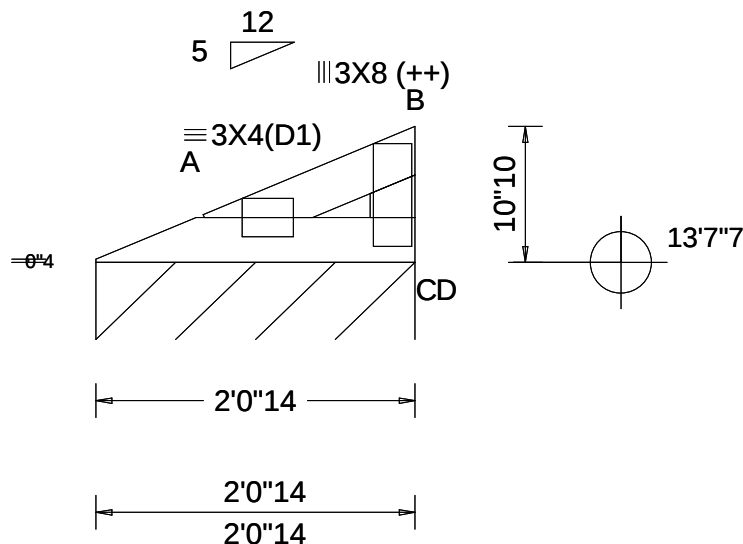
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 466080 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 23-9417 Elfers Truss Label: V04	Cust: R 215 JRef: 1XRI2150003 T59 DrwNo: 201.23.0805.10113 KD / YK 07/20/2023
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 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): 0.000 C - - Creep Factor: 2.0 Max TC CSI: 0.036 Max BC CSI: 0.038 Max Web CSI: 0.004 VIEW Ver: 22.02.00.0914.12	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 75 /- /- /36 /4 /7 Wind reactions based on MWFRS D Brg Wid = 24.9 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

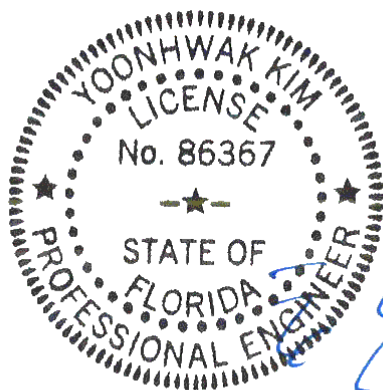
(++) - This plate works for both joints covered.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 0-10-10.



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Florida Certificate of Product Approval #FL 1999

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

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.

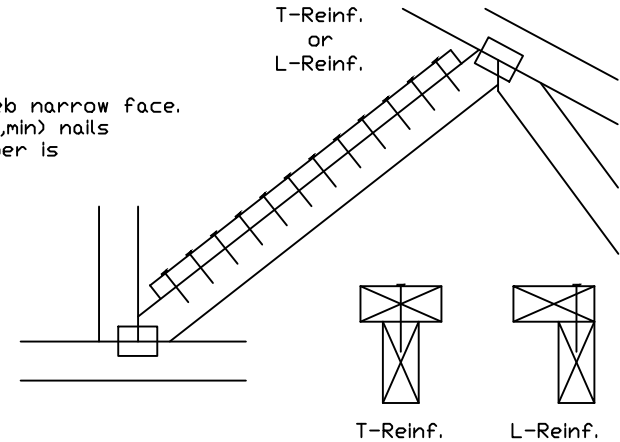
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

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.

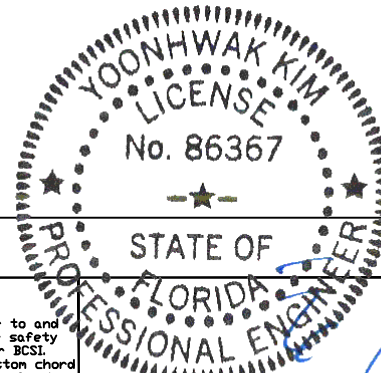
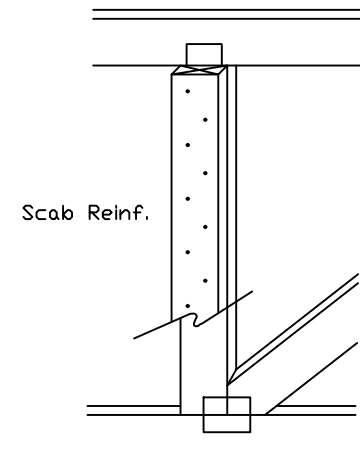
T-Reinforcement or L-Reinforcement:

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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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

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			

07/20/2023

PL REC# 278, Yoonhwak Kim, F

PL REC# 278

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

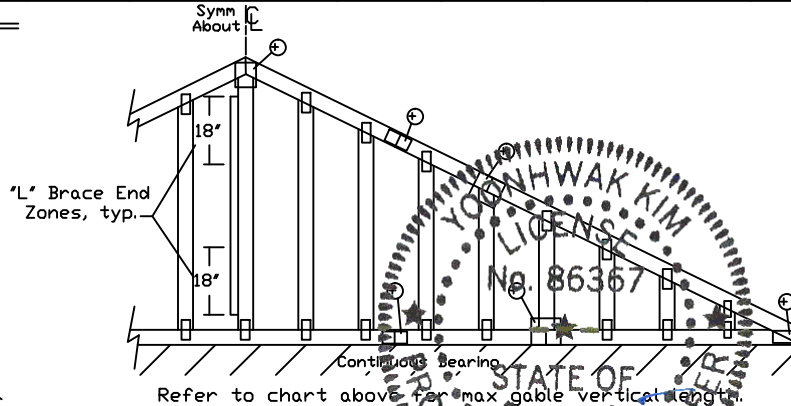
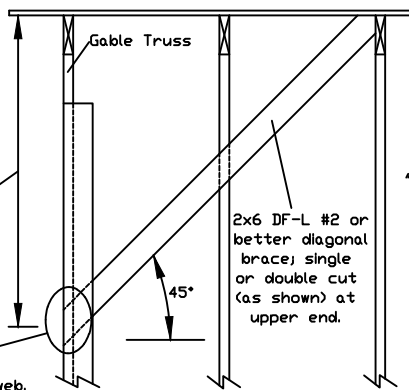
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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	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"	
SP		#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"	
DFL		Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"	
		#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"	
16" O.C.	SPF	Standard	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"	
		#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"	
	SP	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"	
		#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"	
	DFL	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"	
		#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"	
SP	#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"		

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		
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"	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.

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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.icccsa.org



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

07/20/2023

PL REG# 278, Yoonhwak Kim

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

REF ASCE7-16-GAB14030

DATE 01/26/2018

DRWG A14030ENC160118

Diagram illustrating the structural connections for a gable roof system, showing various joints and connections marked with symbols:

- +** Refer to minimum plate
- +** Refer to splice, w
- *** If gable single pl the over
- X** If gable

Example

The diagram illustrates two configurations of a reinforcing member. On the left, a vertical member labeled "'T' Reinforcing Member" is shown with a "Toe-nail" at its base. On the right, a similar vertical member is shown with an "End-nail" at its base. The two configurations are separated by a dash and the word "Or".

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

Maximum "T" Reinforced Gable Vertical Length
 $1.30 \times 8' 7" = 11' 2"$

The diagram illustrates the connection of a gable truss to a ceiling and rigid sheathing. The truss is shown in cross-section, with its top chord connected to a horizontal member labeled "Rigid Sheathing" and its bottom chord connected to a horizontal member labeled "Ceiling". The truss is supported by a vertical member labeled "Gable Truss". The connection between the truss and the ceiling is secured with "4 Nails" at the top and bottom. The connection between the truss and the rigid sheathing is also secured with "4 Nails" at the top and bottom. The truss members are labeled "Nails Spaced At 4' o.c." (on center).

FLY#8 SPACING 24.0"

DRWG GBLLETIN0118

to and
safety
BCSL
ton chord
of webs

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' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"
			#2	4' 6"	7' 4"	7' 8"	8' 8"	9' 0"	10' 4"	10' 9"	13' 8"	14' 0"	14' 0"	14' 0"
			#3	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
			Stud	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	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"
		Standard	#1 / #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' 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	#1 / #2	#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"
		Standard	#1	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	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	#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"
		Standard	#1	5' 8"	9' 3"	9' 8"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	#1	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1 / #2	#1	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	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			
#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

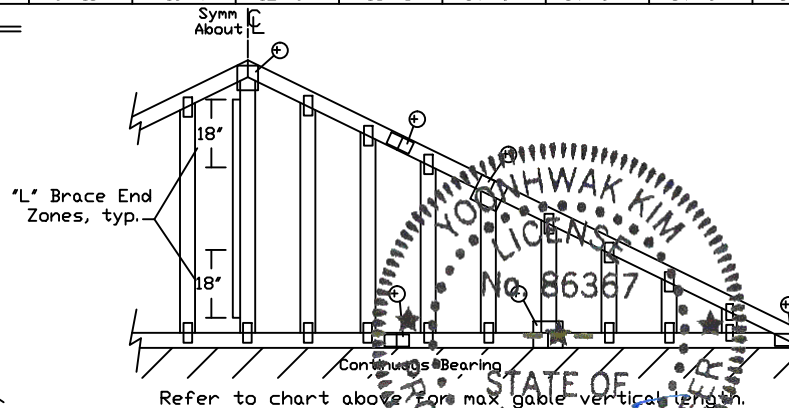
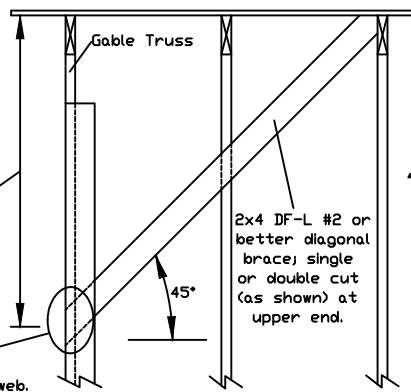
+ Refer to common truss design for peak, splice, and heel plates.

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.



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

07/20/2023

PL REC# 278, Yoonhwak Kim, MARK #375

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

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

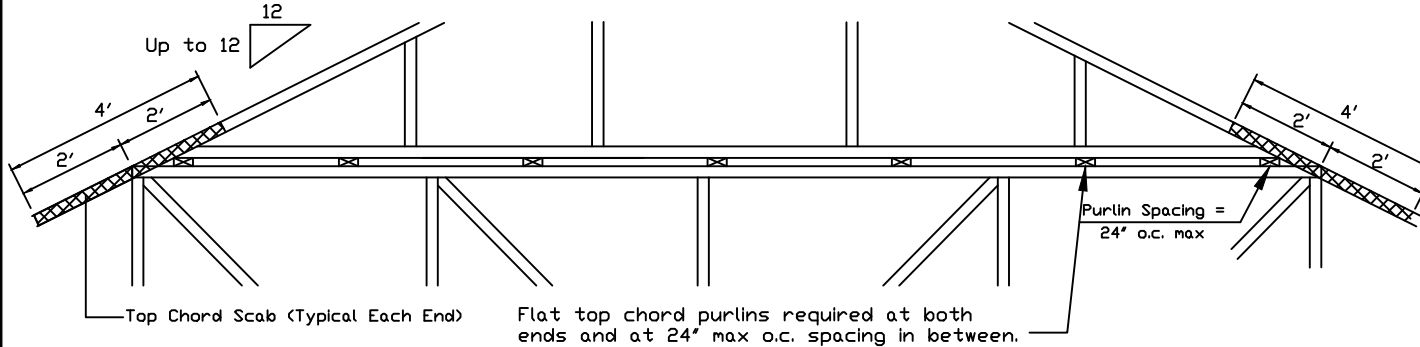
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building 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.

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.

Detail A : Purlin Spacing = 24" o.c. or less

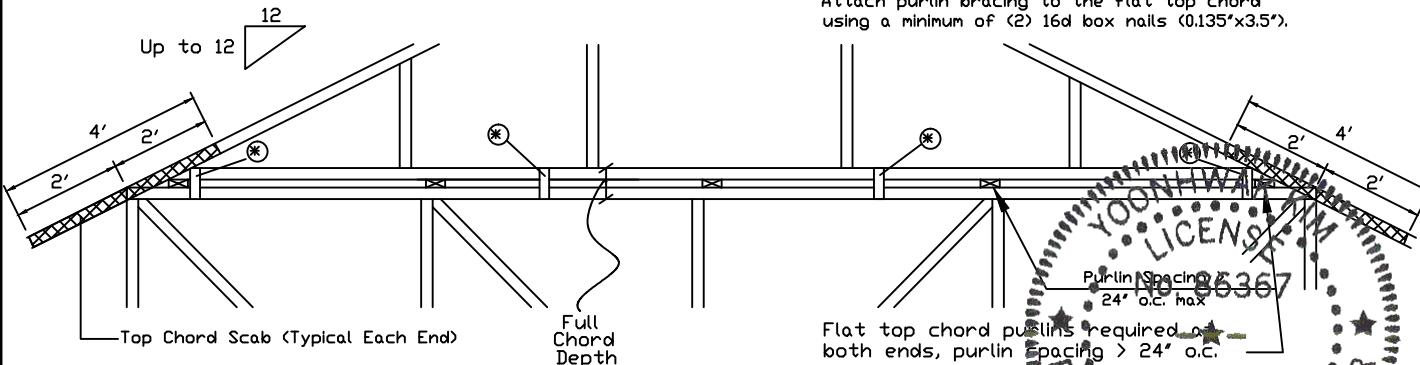


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120x1.375 inch nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate attached to the piggyback truss TC and attached to the base truss TC with (4) 0.120x1.375 inch nails. Note: Nailing thru holes of wave plate is acceptable.

Detail B : Purlin Spacing > 24" o.c.



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.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").

Flat top chord purlins required at both ends, purlin spacing > 24" o.c.

Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24' o.c. max. and use Detail A.

* 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) 0.120x1.375 inch nails into cap bottom chord and (4) in base truss top chord. Trulox 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 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 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.
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) 0.120x1.375 inch nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.



AN ITW COMPANY

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

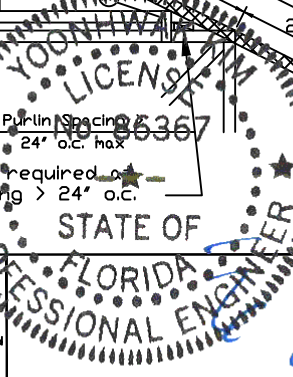
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07/20/2023
PL REC# 278, Yoonhwak Kim, F

REF	PIGGYBACK
DATE	01/02/2018
DRWG	PB160160118

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

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 Alpine 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

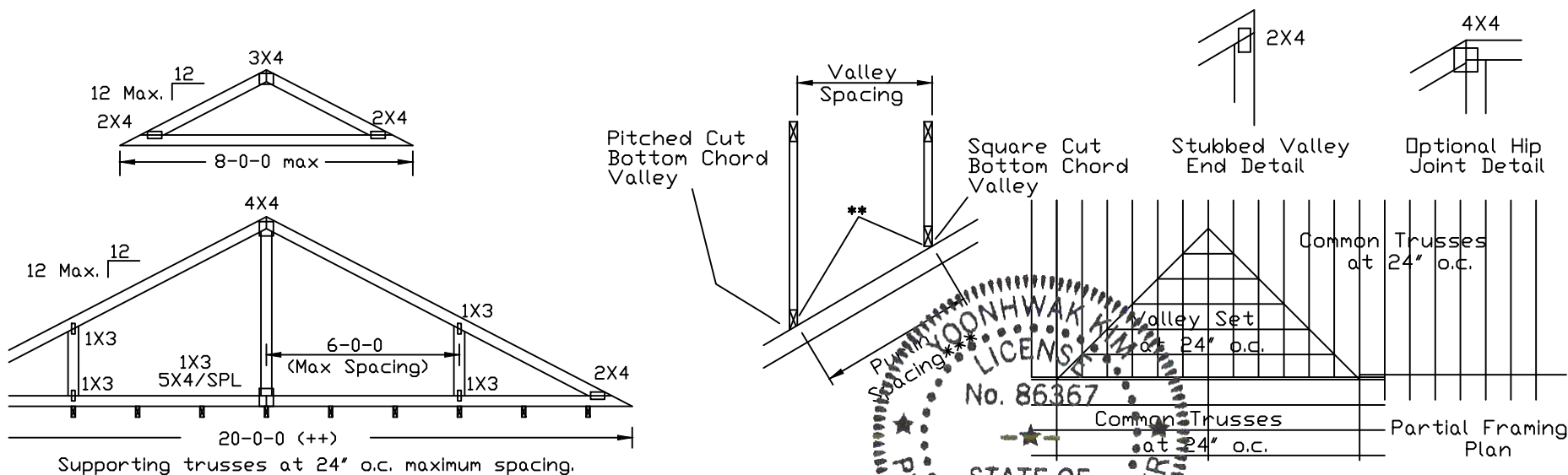
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

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".



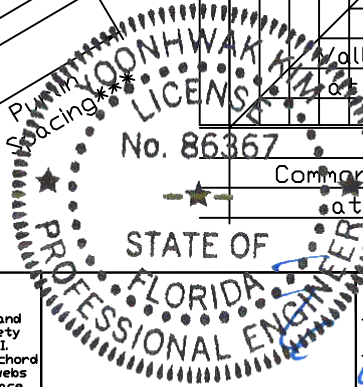
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TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7PSF	DATE	01/26/2018
BC DL	10	10	10 PSF	DRWG	VAL180160118
BC LL	0	0	0PSF		
TOT. LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING	6367	24.0"			

07/30/2023
FL REG# 278, Yoonhwak Kim

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,
 shall be permitted in lieu of fabricating from
 separate 2x4 members.

All plates shown are Alpine 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

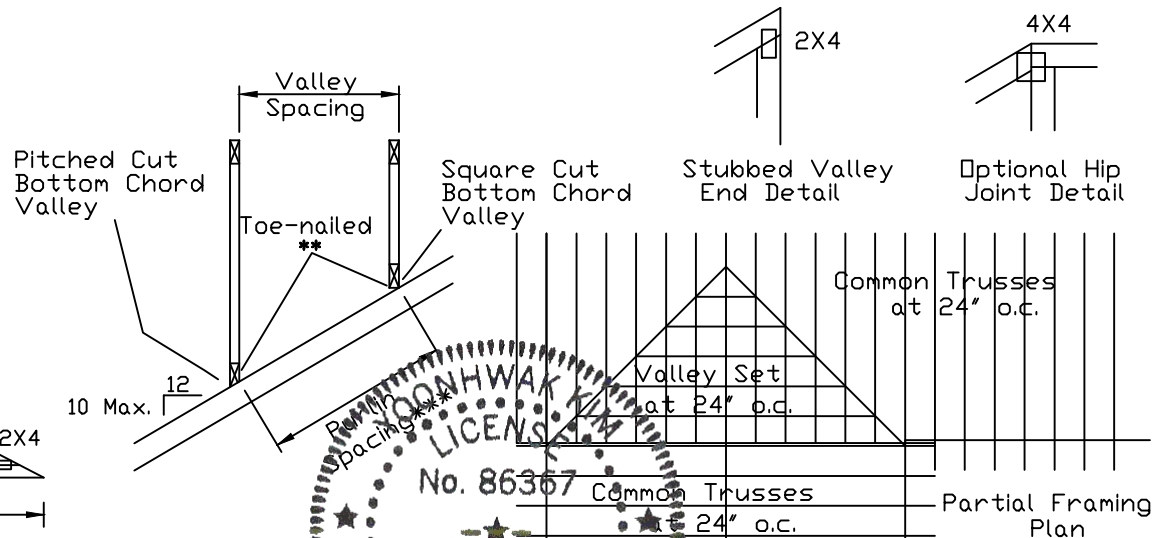
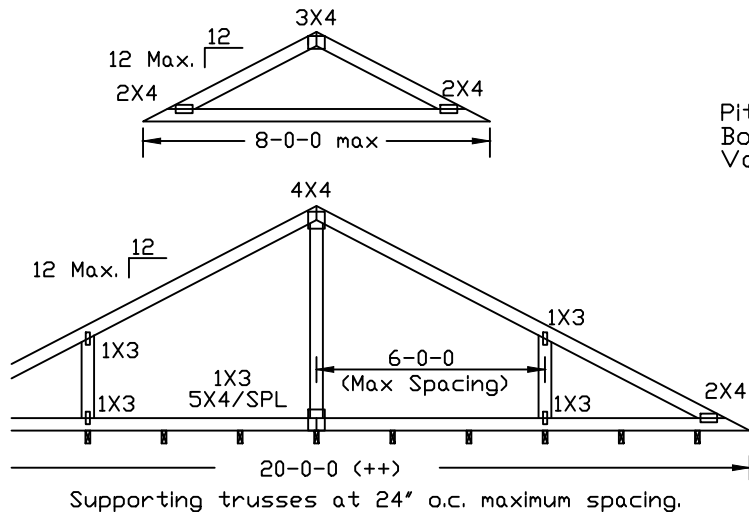
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

Or

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

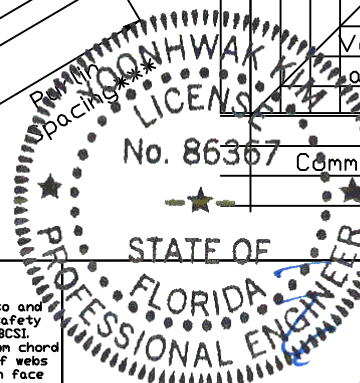
*** Note that the purlin spacing for bracing the top chord of the truss
 beneath the valley is measured along the slope of the top chord.

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



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.
 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 83, 87 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



07/20/2023
 FL REG# 278, Yoonhwak Kim, FL PE #06367

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"		