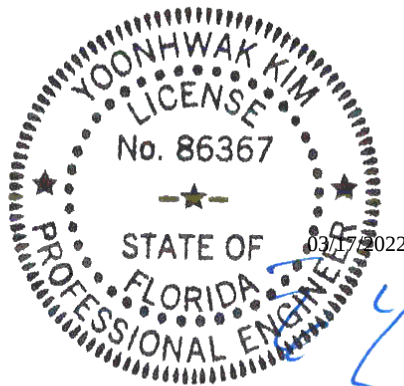




Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

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.

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 22-7136
Job Description: Hiett	
Address:	

Job Engineering Criteria:			
Design Code: FBC 7th Ed. 2020 Res.		IntelliVIEW Version: 21.01.01A	
		JRef #: 1XdW2150003	
Wind Standard: ASCE 7-16	Wind Speed (mph): 130	Design Loading (psf): 40.00	
Building Type: Closed			

This package contains general notes pages, 33 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	076.22.0805.46840	A01
3	076.22.0805.40687	A03
5	076.22.0805.29593	C02
7	076.22.0805.24077	C04
9	076.22.0805.13010	C06
11	076.22.0805.08497	C08
13	076.22.0805.03860	C10
15	076.22.0804.59550	C12
17	076.22.0804.57123	D01
19	076.22.0804.53010	D03
21	076.22.0804.46153	D06
23	076.22.0803.53553	HJ01
25	076.22.0802.18347	J01
27	076.22.0802.14207	J03
29	076.22.0802.08133	J05
31	076.22.0805.38743	B01
33	076.22.0805.34683	B03
35	BRCLBSUB0119	
37	GBLLETIN0118	

Item	Drawing Number	Truss
2	076.22.0805.42700	A02
4	076.22.0805.32957	C01
6	076.22.0805.26527	C03
8	076.22.0805.14853	C05
10	076.22.0805.10710	C07
12	076.22.0805.06227	C09
14	076.22.0805.01600	C11
16	076.22.0804.48753	D05
18	076.22.0804.55137	D02
20	076.22.0804.51060	D04
22	076.22.0804.43650	D07
24	076.22.0803.45107	HJ02
26	076.22.0802.16170	J02
28	076.22.0802.11187	J04
30	076.22.0802.05793	J06
32	076.22.0805.36387	B02
34	CNNAILSP1014	
36	A14015ENC160118	

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.

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 of all load cases.

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

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of 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.

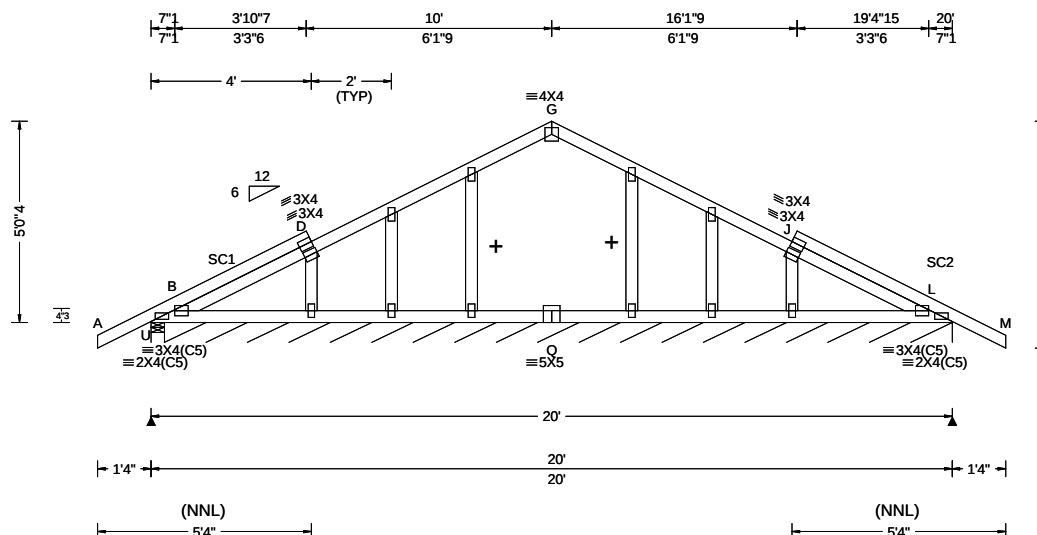
Refer to ASCE-7 for Wind and Seismic abbreviations.

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.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; 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: 650954 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: A01	Cust: R 215 JRef: 1XdW2150003 T2 DrwNo: 076.22.0805.46840 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.004 G 999 240 VERT(CL): 0.008 G 999 180 HORZ(LL): 0.002 H - - HORZ(TL): 0.005 H - - Creep Factor: 2.0 Max TC CSI: 0.237 Max BC CSI: 0.075 Max Web CSI: 0.046 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL U 330 - / - / 215 / 39 / 83 L* 76 - / - / 39 - / - Non-Gravity Wind reactions based on MWFRS U Brg Wid = 4.0 Min Req = 1.5 L Brg Wid = 236 Min Req = - Bearings U & B 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;
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.

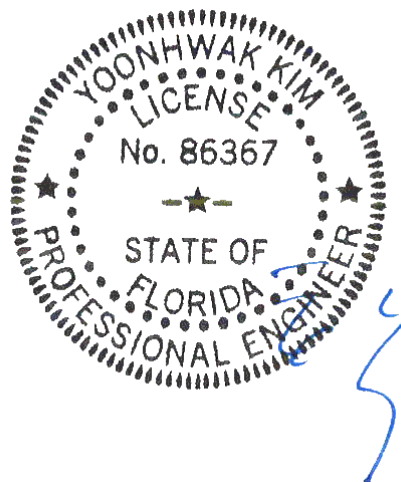
Additional Notes

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 5'-0-4".

+ Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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

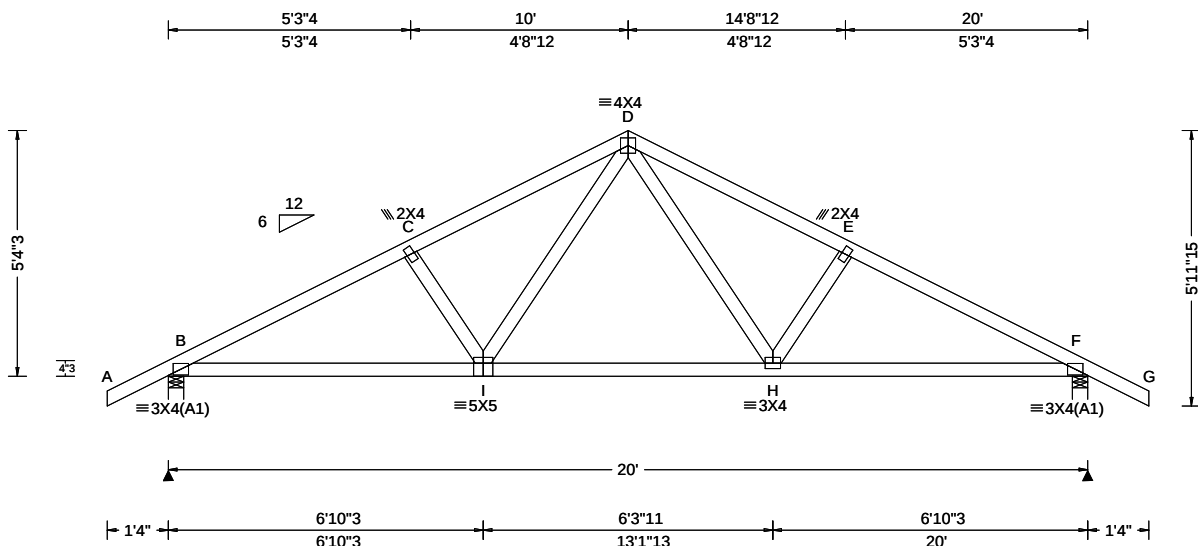
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650929 FROM: CDM	COMN Ply: 1 Qty: 3	Job Number: 22-7136 Hiett Truss Label: A02	Cust: R 215 JRef: 1XdW2150003 T1 DrwNo: 076.22.0805.42700 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.041 H 999 240 VERT(CL): 0.082 H 999 180 HORZ(LL): 0.016 F - - HORZ(TL): 0.032 F - - Creep Factor: 2.0 Max TC CSI: 0.229 Max BC CSI: 0.464 Max Web CSI: 0.163 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 913 /- /- /550 /163 /162 F 913 /- /- /550 /163 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 F Brg Wid = 4.0 Min Req = 1.5 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 619 -1363 D - E 619 -1207 C - D 620 -1206 E - F 618 -1364

Lumber

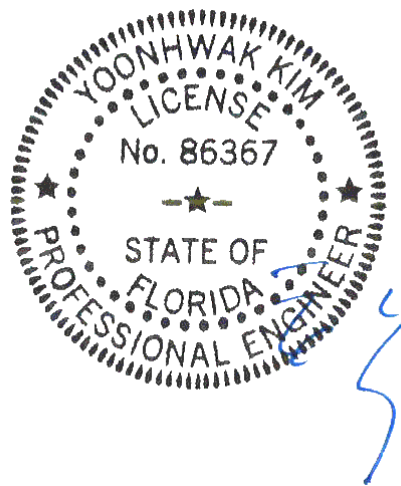
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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 5-4-3.

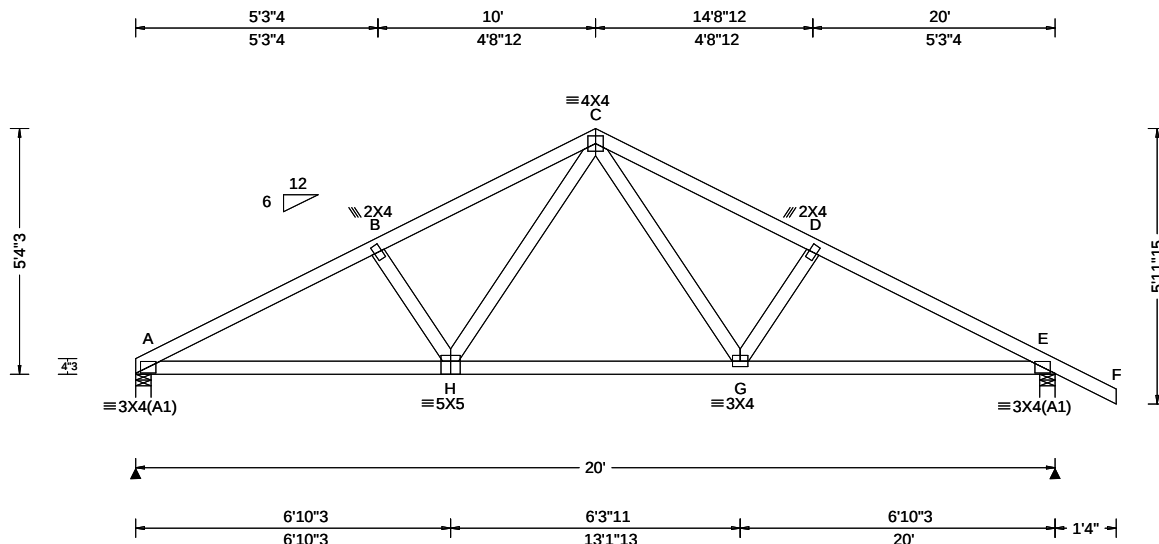


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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Orlando FL, 32821

SEQN: 650932 FROM: CDM	COMN Ply: 1 Qty: 9	Job Number: 22-7136 Hiett Truss Label: A03	Cust: R 215 JRef: 1XdW2150003 T4 DrwNo: 076.22.0805.40687 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.040 G 999 240 VERT(CL): 0.082 G 999 180 HORZ(LL): 0.016 E - - HORZ(TL): 0.032 E - - Creep Factor: 2.0 Max TC CSI: 0.253 Max BC CSI: 0.468 Max Web CSI: 0.170 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 820 - / - / - /475 /139 /150 E 916 - / - / - /550 /164 - Wind reactions based on MWFRS A Brg Wid = 4.0 Min Req = 1.5 E Brg Wid = 4.0 Min Req = 1.5 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 448 -1385 C - D 444 -1214 B - C 454 -1227 D - E 439 -1371

Lumber

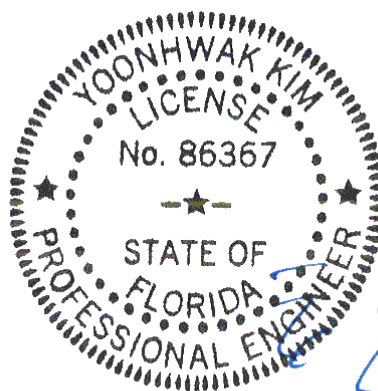
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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 5-4-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

Maximum Bot Chord Forces Per Ply (lbs)

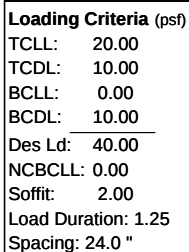
Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	1187 -296	G - E	1170 -292
H - G	799 -116		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
H - C	446 -140	C - G	426 -127

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Suite 305
Orlando FL, 32821



Wind Criteria
 Wind Std: ASCE 7-16
 Speed: 130 mph
 Enclosure: Closed
 Risk Category: II
 EXP: C Kzt: NA
 Mean Height: 10.86 ft
 TCDL: 5.0 psf
 BCDL: 5.0 psf
 MWFRS Parallel Dist: 0 to h/2
 C&C Dist a: 4.25 ft
 Loc. from endwall: NA
 GCpi: 0.18
 Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria			
PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332	F	999 240
VERT(CL):	0.685	F	735 180
HORZ(LL):	0.102	J	- -
HORZ(TL):	0.212	J	- -
Creep Factor: 2.0			
Max TC CSI:	0.371		
Max BC CSI:	0.371		
Max Web CSI:	0.486		

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	3586	/-	/-	/-	/604	/-
J	3649	/-	/-	/-	/634	/-

Wind reactions based on MWFRS
 A Brg Wid = 4.0 Min Req = 1.5
 J Brg Wid = 4.0 Min Req = 1.5
 Bearings A & J are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	89	- 530	F - G	652	- 3897
B - C	523	- 3088	G - H	643	- 3838
C - D	530	- 3177	H - I	549	- 3280
D - E	757	- 4471	I - J	421	- 2467
E - F	750	- 4429			

Top chord: 2x6 SP #2; T1 2x8 SP 2400f-2.0E;
T5 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E; B4 2x6 SP #2;
Webs: 2x4 SP #3; W4,W5 2x4 SP #2;
W6 2x4 SP M-31:

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.

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

(1) 2x8x7-3-10 x SP 2400f-2.0E scab at left end.
Attach scab to face of chord with: 0.131"x3", min.
nails @ 8" oc, plus additional nail clusters at: BRG.:
(5). heel: (8). 1st panel point: (4).

#1 hip supports 7-0-0 jacks W/2 panel TC and no end vert

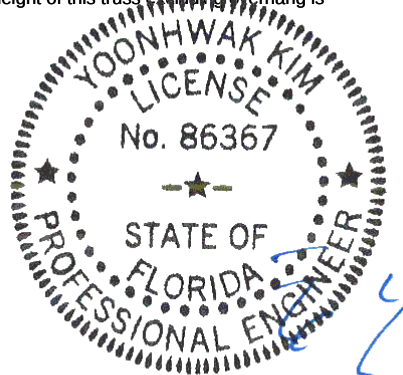
Left side jacks have 7-0-0 setback with 0-0-0 cant and 1-4-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 1-4-0 overhang. Right side jacks have 7-0-0 setback with 0-0-0 cant and 0-0-0 overhang.

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

Wind loads and reactions based on MWERS

Wind loading based on both gable and hip roof types.

The overall height of this truss excluding overhang is 3-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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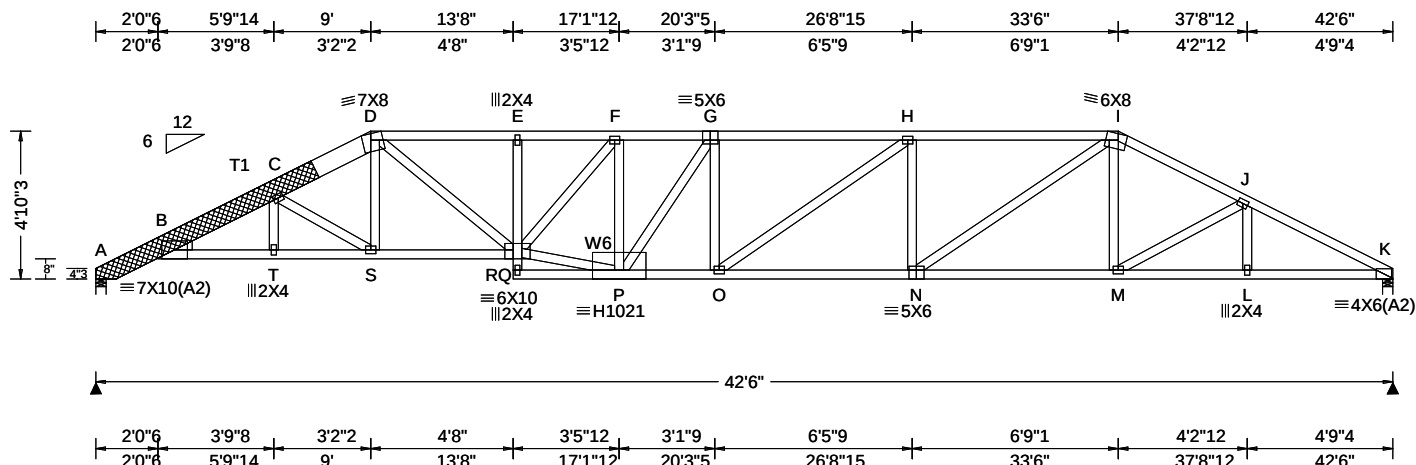
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinet.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 424561 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: C02	Cust: R 215 JRef: 1XdW2150003 T20 DrwNo: 076.22.0805.29593 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.25 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.388 G 999 240 VERT(CL): 0.790 G 638 180 HORZ(LL): 0.153 K - - HORZ(TL): 0.311 K - - Creep Factor: 2.0 Max TC CSI: 0.898 Max BC CSI: 0.929 Max Web CSI: 0.867 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 1718 - / - / 950 / 335 / 122 K 1742 - / - / 981 / 313 - / - Wind reactions based on MWFRS A Brg Wid = 4.0 Min Req = 1.8 K Brg Wid = 4.0 Min Req = 2.1 Bearings A & 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. A - B 289 -759 F - G 1415 -3830 B - C 1273 -3807 G - H 1443 -4005 C - D 1252 -3536 H - I 1404 -3765 D - E 1575 -4274 I - J 1096 -3073 E - F 1566 -4248 J - K 1100 -3344

Lumber

Top chord: 2x4 SP #2; T1 2x8 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W6 2x4 SP #2;
Lt Wedge: 2x4 SP #3;

Plating Notes

All plates are 3X4 except as noted.

Tray Scab(s)

(2) 2x8x8-0-5 x SP 2400f-2.0E scabs at left end.
Attach one scab to each outer face of chord with:
0.131"x3", min. nails @ 8" oc, Plus additional nail
clusters at: BRG.: (5), heel: (7), 1st panel point: (3).

Purlins

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

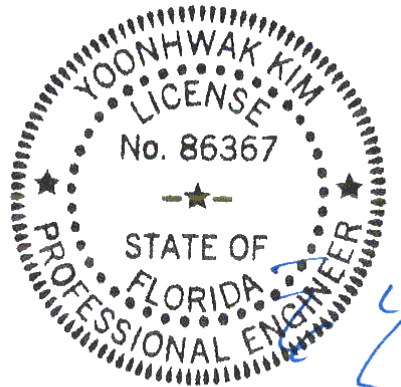
Wind

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
4-10-3.

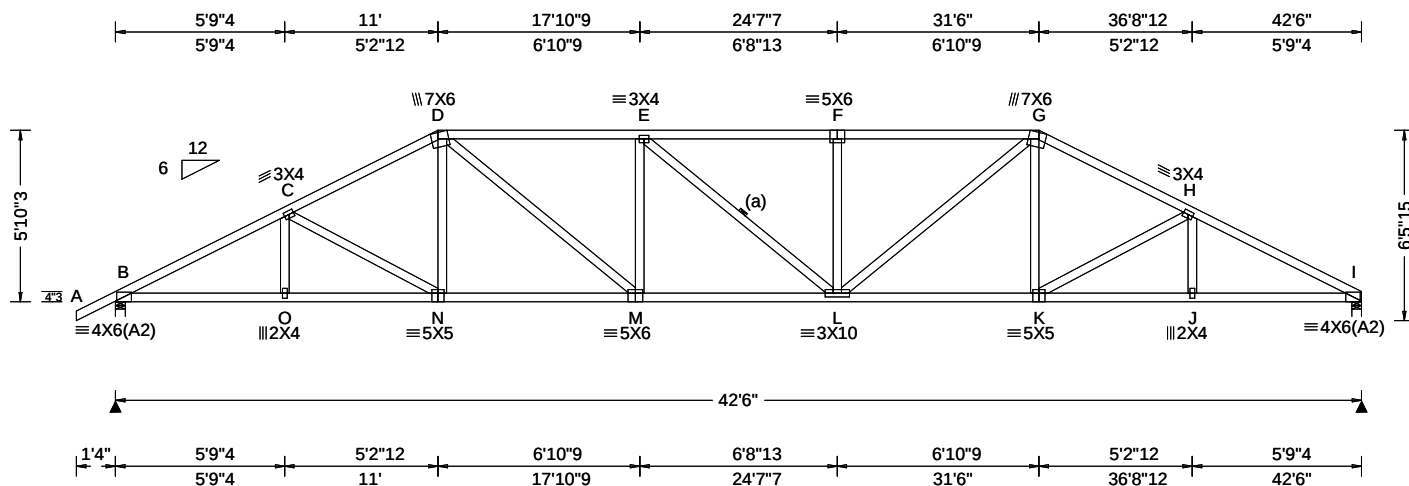


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650880 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: C03	Cust: R 215 JRef: 1XdW2150003 T10 DrwNo: 076.22.0805.26527 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.25 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.270 F 999 240 VERT(CL): 0.553 F 916 180 HORZ(LL): 0.095 I - - HORZ(TL): 0.195 I - - Creep Factor: 2.0 Max TC CSI: 0.835 Max BC CSI: 0.866 Max Web CSI: 0.494 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1841 - / - / - / 1079 / 336 / 172 I 1748 - / - / - / 1002 / 312 / - Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.2 I Brg Wid = 4.0 Min Req = 2.1 Bearings B & 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. B - C 1030 - 3322 F - G 1238 - 3265 C - D 1029 - 2930 G - H 1038 - 2937 D - E 1225 - 3247 H - I 1058 - 3346 E - F 1238 - 3265

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.

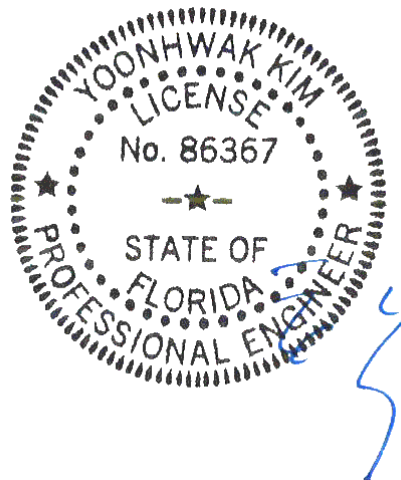
Wind

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 5-10-3.



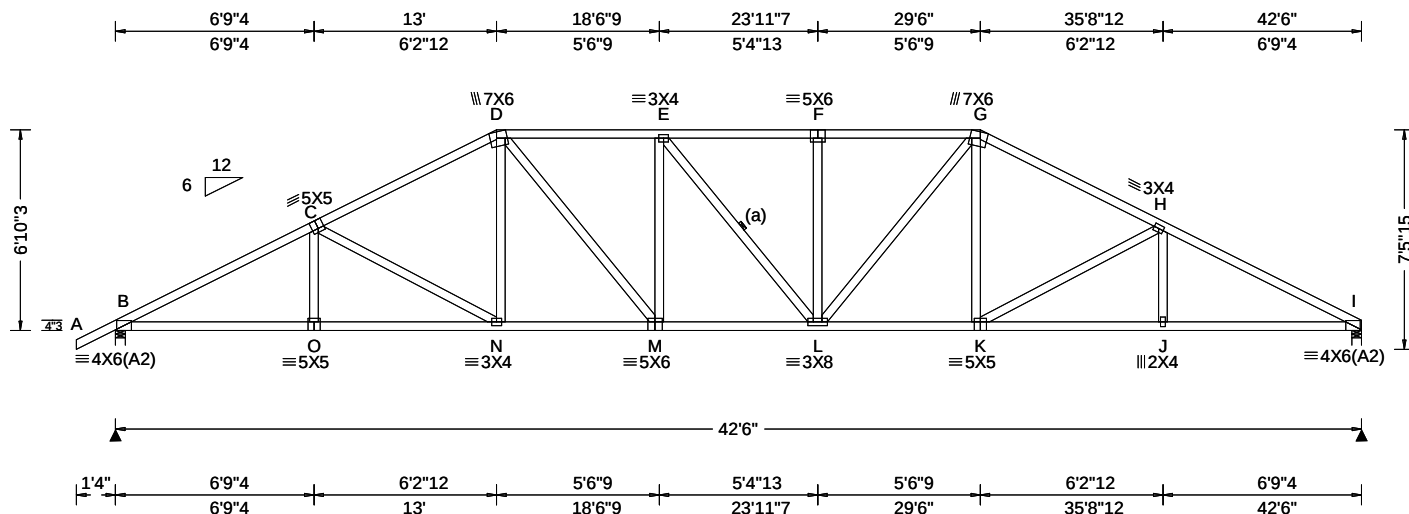
FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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6750 Forum Drive
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Orlando FL, 32821

SEQN: 650883 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: C04	Cust: R 215 JRef: 1XdW2150003 T11 DrwNo: 076.22.0805.24077 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.25 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.230 F 999 240 VERT(CL): 0.470 F 999 180 HORZ(LL): 0.091 I - - HORZ(TL): 0.186 I - - Creep Factor: 2.0 Max TC CSI: 0.596 Max BC CSI: 0.761 Max Web CSI: 0.557 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1841 - / - / 1092 / 334 / 199 I 1748 - / - / 1016 / 309 / - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.2 I Brg Wid = 4.0 Min Req = 2.1 Bearings B & 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. B - C 1001 - 3302 F - G 1075 - 2774 C - D 968 - 2772 G - H 975 - 2777 D - E 1066 - 2762 H - I 1009 - 3323 E - F 1075 - 2774

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.

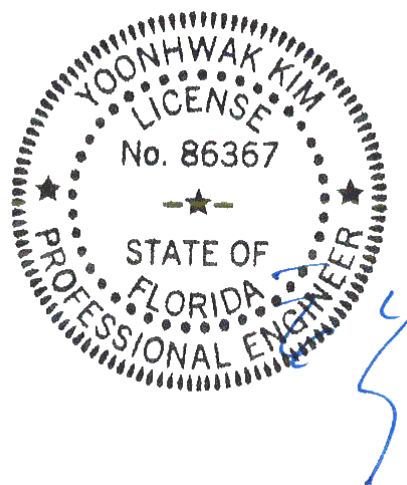
Wind

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 6-10-3.



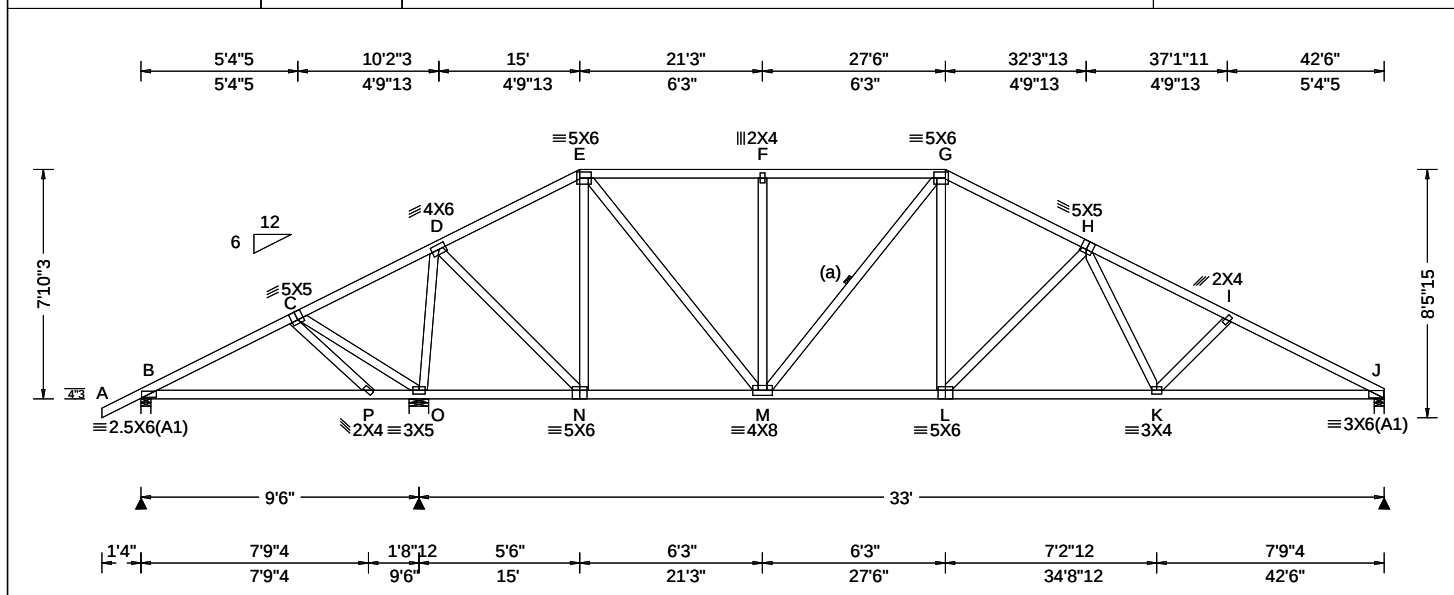
FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650886 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: C05	Cust: R 215 JRef: 1XdW2150003 T12 DrwNo: 076.22.0805.14853 KD / YK 03/17/2022
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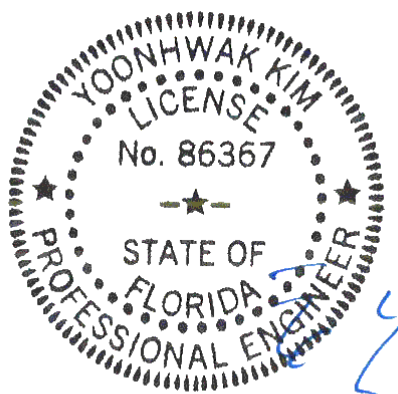


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.25 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.090 H 999 240 VERT(CL): 0.186 H 999 180 HORZ(LL): 0.027 J - - HORZ(TL): 0.055 J - - Creep Factor: 2.0 Max TC CSI: 0.474 Max BC CSI: 0.692 Max Web CSI: 0.935 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 313 /-37 /- /164 /22 /227 O 2126 /- /- /1205 /61 /- J 1285 /- /- /808 /53 /- Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 O Brg Wid = 8.0 Min Req = 2.5 J Brg Wid = 4.0 Min Req = 1.5 Bearings B, O, & 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	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;	Chords Tens.Comp. Chords Tens. Comp. B - C 442 -142 F - G 572 -1167 C - D 714 -184 G - H 607 -1554 D - E 340 -688 H - I 671 -2152 E - F 572 -1167 I - J 691 -2365

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Chords Tens.Comp. Chords Tens. Comp. N - M 558 -69 L - K 1701 -439 M - L 1330 -297 K - J 2056 -552
Purlins	Maximum Web Forces Per Ply (lbs)
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.	Webs Tens.Comp. Webs Tens. Comp. C - O 91 -559 F - M 316 -415 O - D 640 -1793 G - L 539 -90 D - N 1293 -391 L - H 214 -537 E - N 344 -817 H - K 426 -55 E - M 966 -362

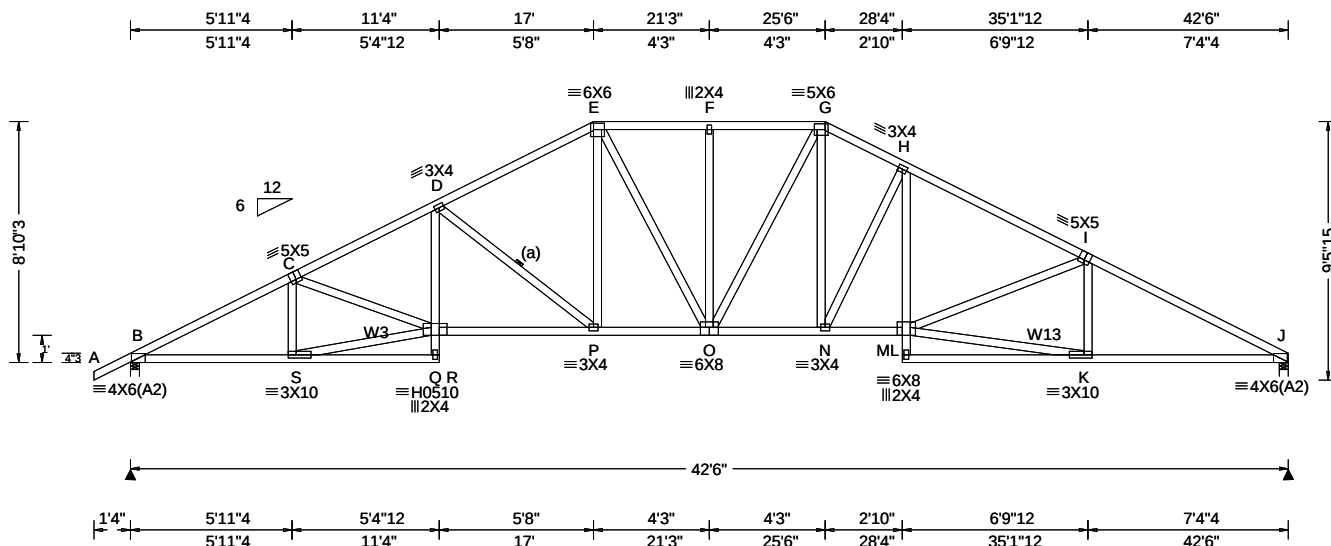
Wind	Additional Notes
Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	The overall height of this truss excluding overhang is 7-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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SEQN: 650938 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: C06	Cust: R 215 JRef: 1XdW2150003 T21 DrwNo: 076.22.0805.13010 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.25 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.244 F 999 240 VERT(CL): 0.500 F 999 180 HORZ(LL): 0.119 J - - HORZ(TL): 0.244 J - - Creep Factor: 2.0 Max TC CSI: 0.767 Max BC CSI: 0.805 Max Web CSI: 0.848 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1841 - / - / - / 1109 / 50 / 254 J 1748 - / - / - / 1033 / 38 / - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.2 J Brg Wid = 4.0 Min Req = 2.1 Bearings B & 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. B - C 920 - 3323 F - G 929 - 2437 C - D 1107 - 3607 G - H 969 - 2673 D - E 941 - 2712 H - I 1013 - 3173 E - F 929 - 2437 I - J 929 - 3303

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W3, W13 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

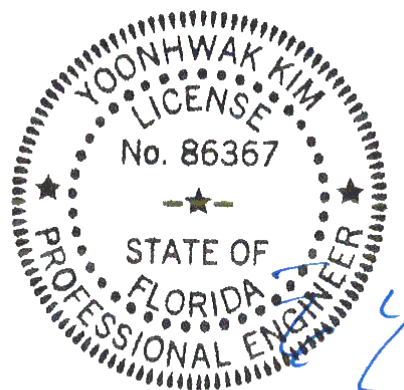
Wind

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 8-10-3.



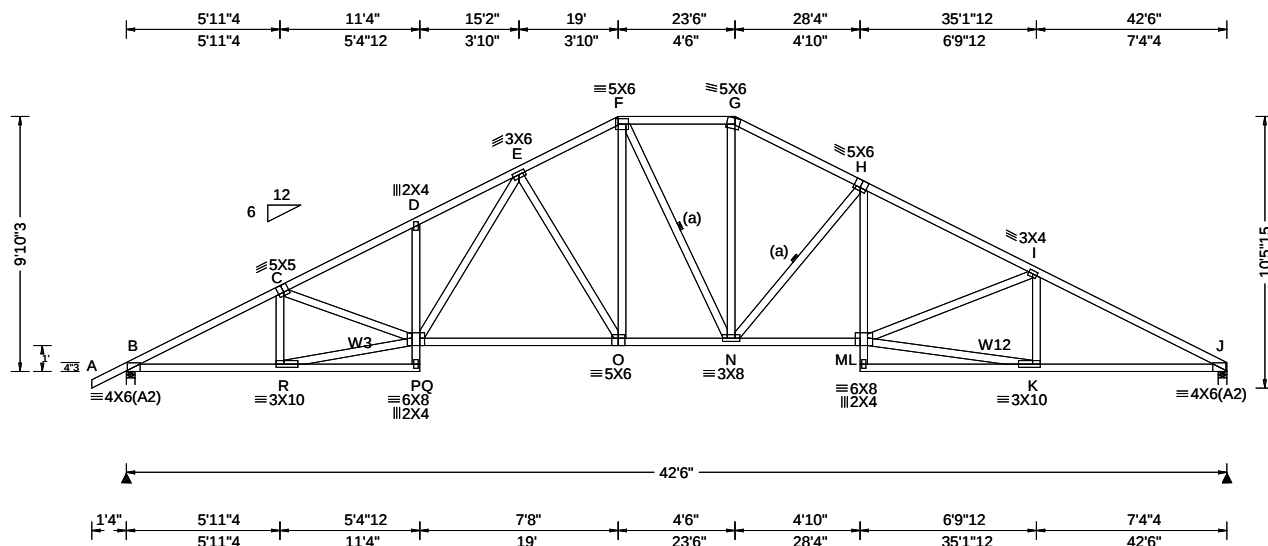
FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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SEQN: 650941 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: C07	Cust: R 215 JRef: 1XdW2150003 T17 DrwNo: 076.22.0805.10710 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.25 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.248 O 999 240 VERT(CL): 0.507 O 999 180 HORZ(LL): 0.117 J - - HORZ(TL): 0.240 J - - Creep Factor: 2.0 Max TC CSI: 0.755 Max BC CSI: 0.904 Max Web CSI: 0.958 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1841 - / - /1113 /41 /281 J 1748 - / - /1036 /33 - Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.2 J Brg Wid = 4.0 Min Req = 2.1 Bearings B & 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. B - C 814 -3326 F - G 758 -2134 C - D 959 -3607 G - H 795 -2448 D - E 1048 -3604 H - I 882 -3177 E - F 800 -2445 I - J 820 -3303

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W3, W12 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

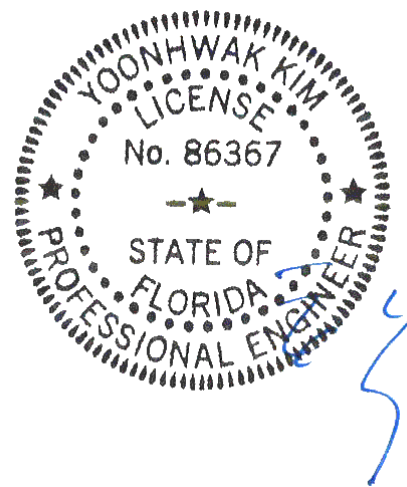
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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 9-10-3.

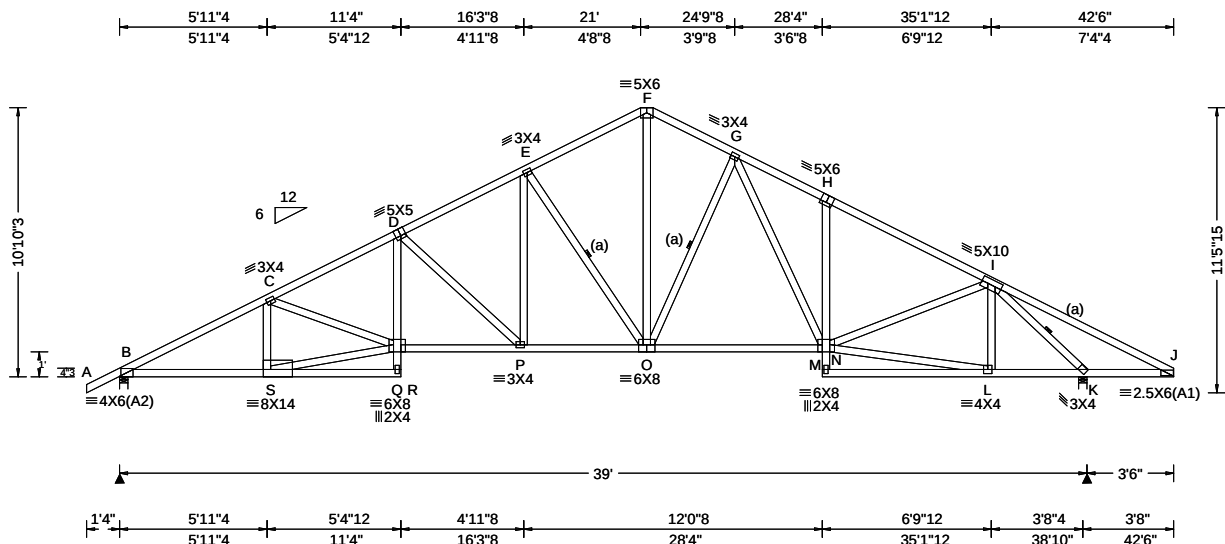


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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SEQN: 650944 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: C08	Cust: R 215 JRef: 1XdW2150003 T14 DrwNo: 076.22.0805.08497 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.25 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.183 P 999 240 VERT(CL): 0.376 P 999 180 HORZ(LL): 0.088 K - - HORZ(TL): 0.182 K - - Creep Factor: 2.0 Max TC CSI: 0.740 Max BC CSI: 0.714 Max Web CSI: 0.988 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1689 - / - /1040 /31 /310 K 1908 - / - /1199 /4 /- Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.0 K Brg Wid = 4.0 Min Req = 1.9 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. B - C 619 -3002 F - G 543 -1810 C - D 701 -3185 G - H 647 -2340 D - E 610 -2415 H - I 551 -2372 E - F 551 -1839 I - J 508 -242

Lumber

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

Bracing

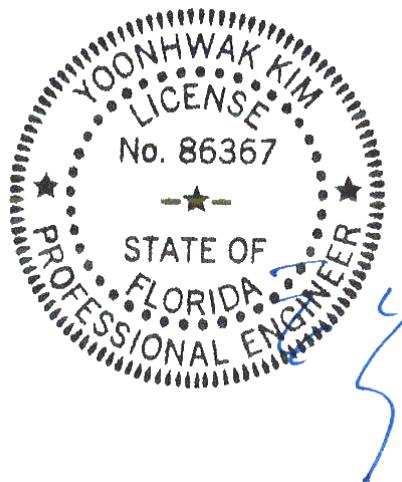
(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 10'-10-3/4".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	2611 -499	O - M	1795 -207
Q - P	2789 -476	L - K	1431 -250
P - O	2076 -293		

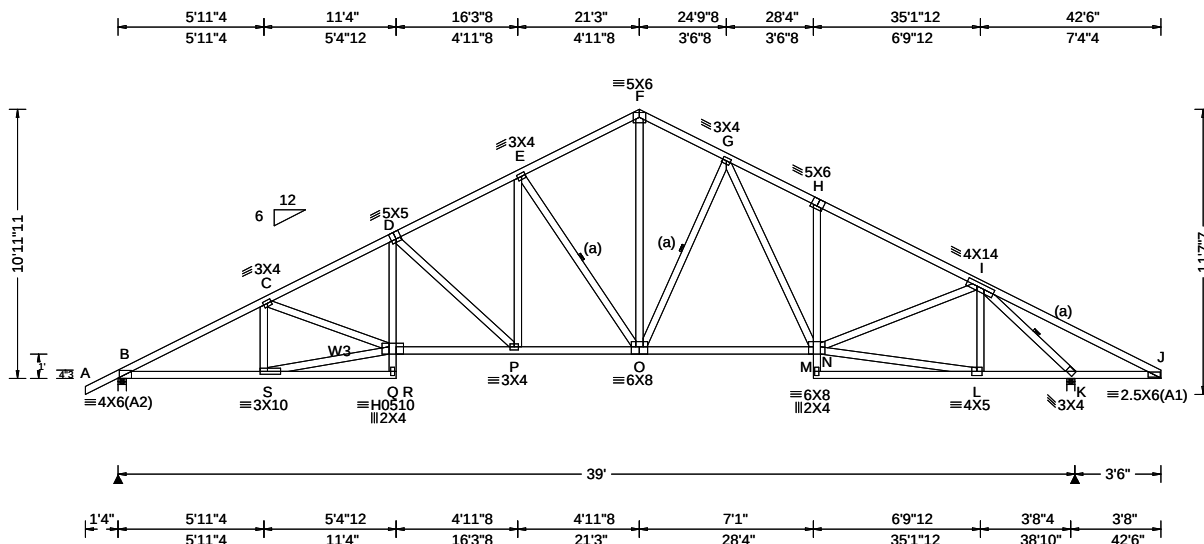
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - S	173 -477	F - O	1303 -358
S - Q	2592 -494	O - G	244 -508
Q - D	680 -90	G - M	565 -168
D - P	247 -955	M - L	1404 -238
P - E	673 -108	M - I	667 -77
E - O	296 -883	I - K	613 -2470

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SEQN: 650947 FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 22-7136 Hiett Truss Label: C09	Cust: R 215 JRef: 1XdW2150003 T18 DrwNo: 076.22.0805.06227 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.25 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.211 P 999 240 VERT(CL): 0.409 P 999 180 HORZ(LL): 0.101 K - - HORZ(TL): 0.197 K - - Creep Factor: 2.0 Max TC CSI: 0.739 Max BC CSI: 0.948 Max Web CSI: 0.884 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1785 - / - / - /1040 /35 /312 K 2033 - / - / - /1199 /8 /- Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.1 K Brg Wid = 4.0 Min Req = 2.0 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. B - C 631 -3208 F - G 557 -2021 C - D 718 -3450 G - H 659 -2591 D - E 625 -2659 H - I 563 -2621 E - F 565 -2050 I - J 507 -242

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W3 2x4 SP #2;

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

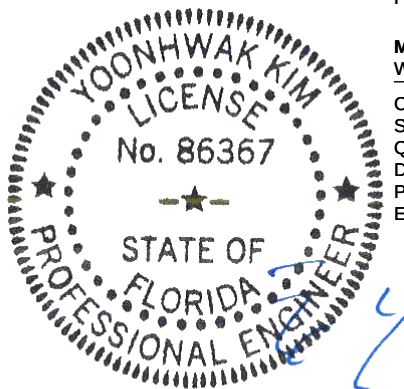
Wind loads based on MWFRS with additional C&C member design.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	2795 -508	O - M	1998 -219
Q - P	3027 -488	L - K	1554 -256
P - O	2292 -304		

Maximum Web Forces Per Ply (lbs)

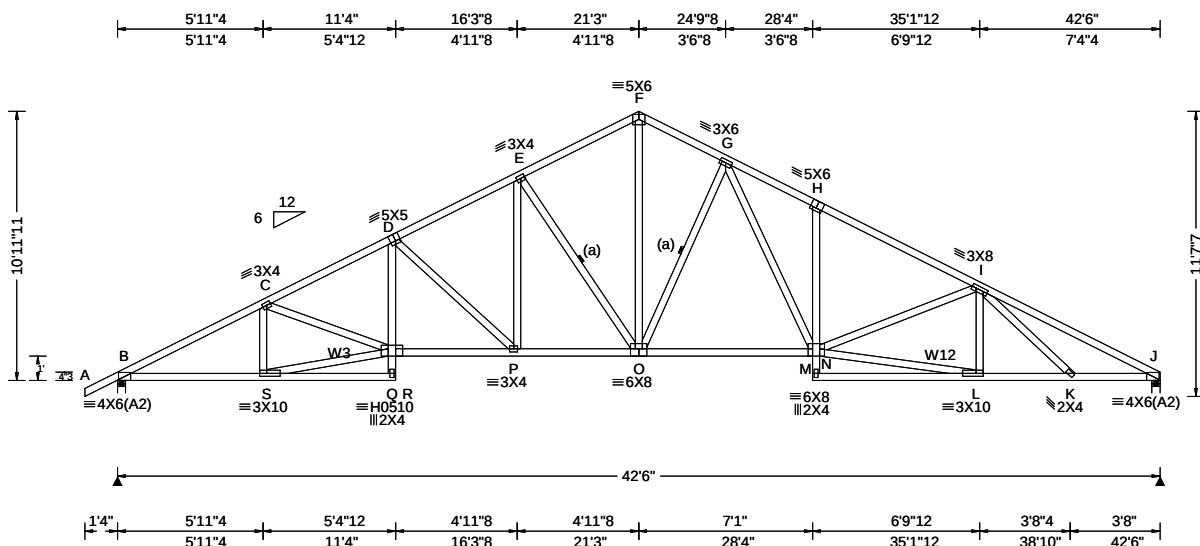
Webs	Tens.Comp.	Webs	Tens. Comp.
C - S	175 -521	F - O	1490 -354
S - Q	2777 -504	O - G	240 -539
Q - D	707 -92	G - M	617 -167
D - P	249 -982	M - L	1540 -244
P - E	729 -108	M - I	775 -83
E - O	293 -931	I - K	623 -2644

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SEQN: 650952 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: C10	Cust: R 215 JRef: 1XdW2150003 T13 DrwNo: 076.22.0805.03860 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.25 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.257 P 999 240 VERT(CL): 0.523 P 968 180 HORZ(LL): 0.119 J - - HORZ(TL): 0.244 J - - Creep Factor: 2.0 Max TC CSI: 0.678 Max BC CSI: 0.819 Max Web CSI: 0.900 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1841 - / - / - /1113 /37 /312 J 1748 - / - / - /1037 /30 - / - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.2 J Brg Wid = 4.0 Min Req = 2.1 Bearings B & 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. B - C 697 -3326 F - G 650 -2181 C - D 804 -3602 G - H 853 -3157 D - E 703 -2798 H - I 751 -3184 E - F 641 -2210 I - J 705 -3312

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W3, W12 2x4 SP #2;

Bracing

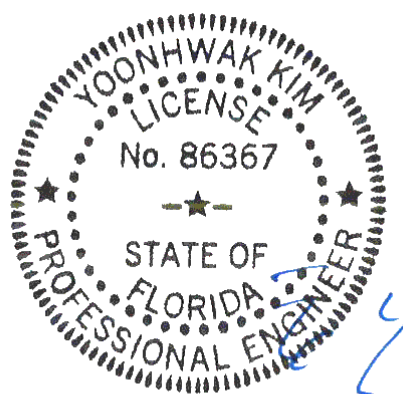
(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	2900 -580	O - M	2277 -335
Q - P	3163 -582	L - K	2879 -562
P - O	2417 -389	K - J	2882 -550

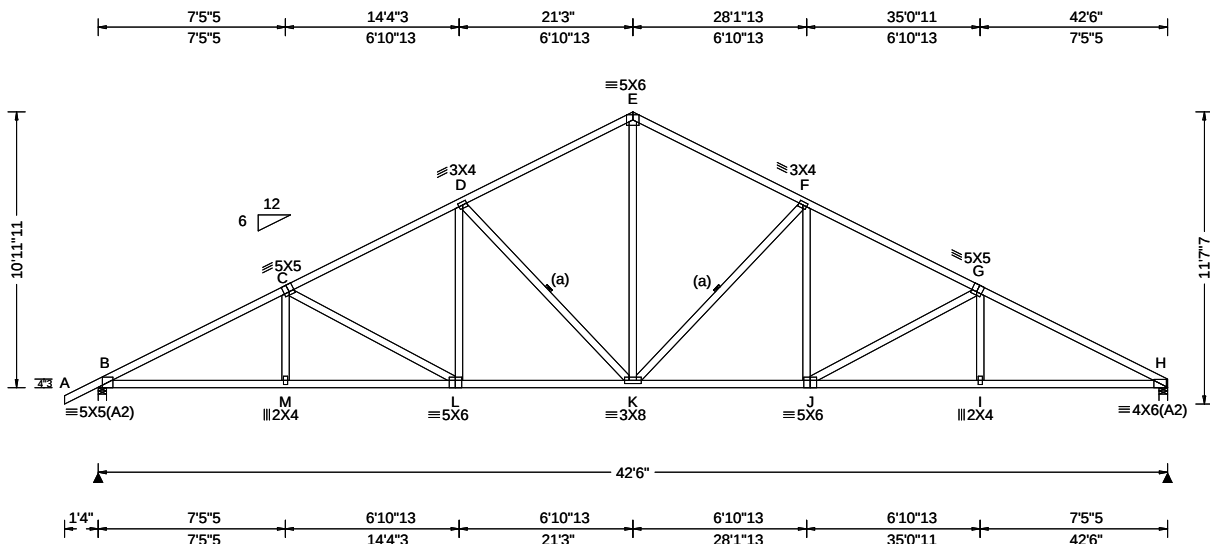
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - S	192 -546	E - O	296 -897
S - Q	2882 -575	F - O	1632 -420
Q - D	725 -103	O - G	312 -866
D - P	260 -1000	G - M	1148 -293
P - E	692 -113	M - L	2836 -546

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SEQN: 650911 FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 22-7136 Hiett Truss Label: C11	Cust: R 215 JRef: 1XdW2150003 T25 DrwNo: 076.22.0805.01600 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.25 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.241 K 999 240 VERT(CL): 0.463 K 999 180 HORZ(LL): 0.103 H - - HORZ(TL): 0.197 H - - Creep Factor: 2.0 Max TC CSI: 0.897 Max BC CSI: 0.871 Max Web CSI: 0.713 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1965 - / - / - / 1113 / 37 / 312 H 1872 - / - / - / 1037 / 30 / - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.3 H Brg Wid = 4.0 Min Req = 2.2 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 696 - 3541 E - F 615 - 2262 C - D 661 - 2961 F - G 666 - 2965 D - E 613 - 2262 G - H 713 - 3558

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

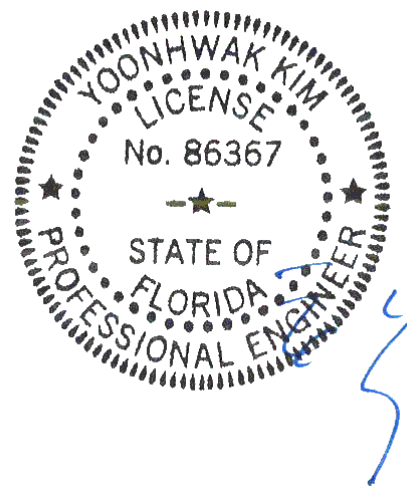
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;	C - D	647 - 2682	F - G	652 - 2686
	D - E	599 - 2048	G - H	700 - 3295
	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.			
Bracing (a) Continuous lateral restraint equally spaced on member.	B - M	2845 - 548	K - J	2302 - 365
	M - L	2842 - 550	J - I	2859 - 542
	L - K	2300 - 387	I - H	2862 - 541

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

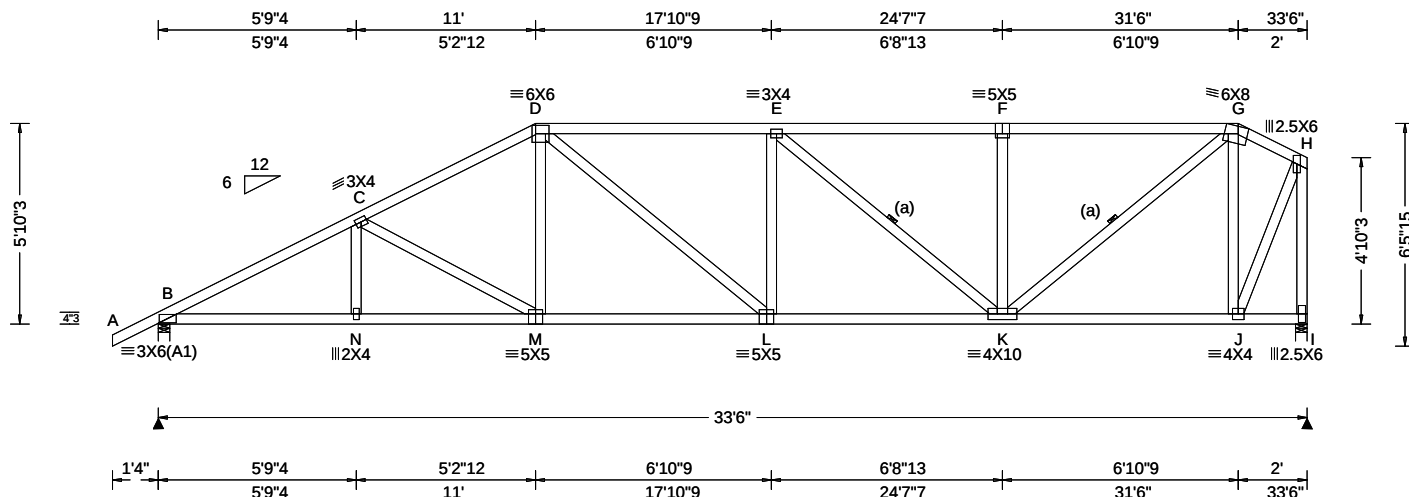
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650892 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: D05	Cust: R 215 JRef: 1XdW2150003 T36 DrwNo: 076.22.0804.48753 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.35 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.123 L 999 240 VERT(CL): 0.251 L 999 180 HORZ(LL): 0.043 J - - HORZ(TL): 0.088 J - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.648 Max Web CSI: 0.622 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1477 - / - / - /895 /259 /178 I 1371 - / - / - /696 /261 - / - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.7 I Brg Wid = 4.0 Min Req = 1.6 Bearings B & 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. B - C 958 -2549 E - F 858 -1664 C - D 943 -2133 F - G 858 -1664 D - E 1049 -2095 G - H 267 -557

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

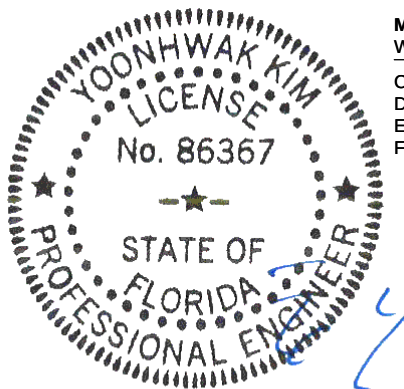
Wind loads based on MWFRS with additional C&C member design.

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 5-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - N	2209 -976	L - K	2098 -1023
N - M	2207 -978	K - J	503 -242
M - L	1848 -866		

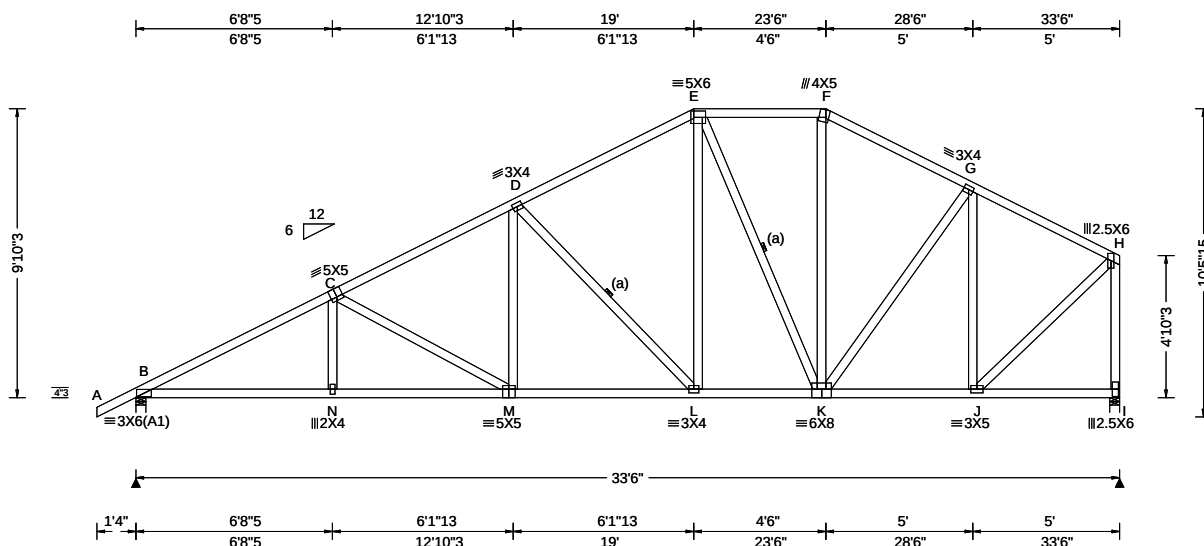
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - M	132 -414	K - G	1491 -746
D - M	405 -10	G - J	606 -1026
E - K	263 -568	J - H	1247 -600
F - K	370 -428	H - I	641 -1380

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6750 Forum Drive
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Orlando FL, 32821

SEQN: 650905 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: D01	Cust: R 215 JRef: 1XdW2150003 T39 DrwNo: 076.22.0804.57123 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.35 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.102 M 999 240 VERT(CL): 0.208 M 999 180 HORZ(LL): 0.038 J - - HORZ(TL): 0.077 J - - Creep Factor: 2.0 Max TC CSI: 0.466 Max BC CSI: 0.588 Max Web CSI: 0.656 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1477 /- /- /923 /70 /257 I 1371 /- /- /722 /34 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.7 I Brg Wid = 4.0 Min Req = 1.6 Bearings B & 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. B - C 590 -2523 E - F 474 -1024 C - D 565 -1997 F - G 476 -1218 D - E 523 -1427 G - H 313 -997

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

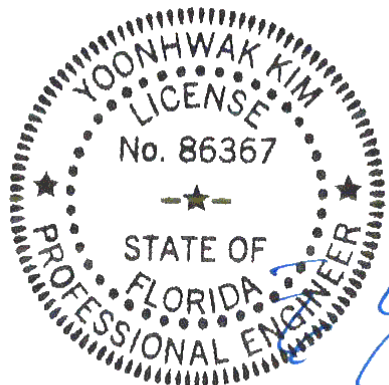
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
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 9-10-3.

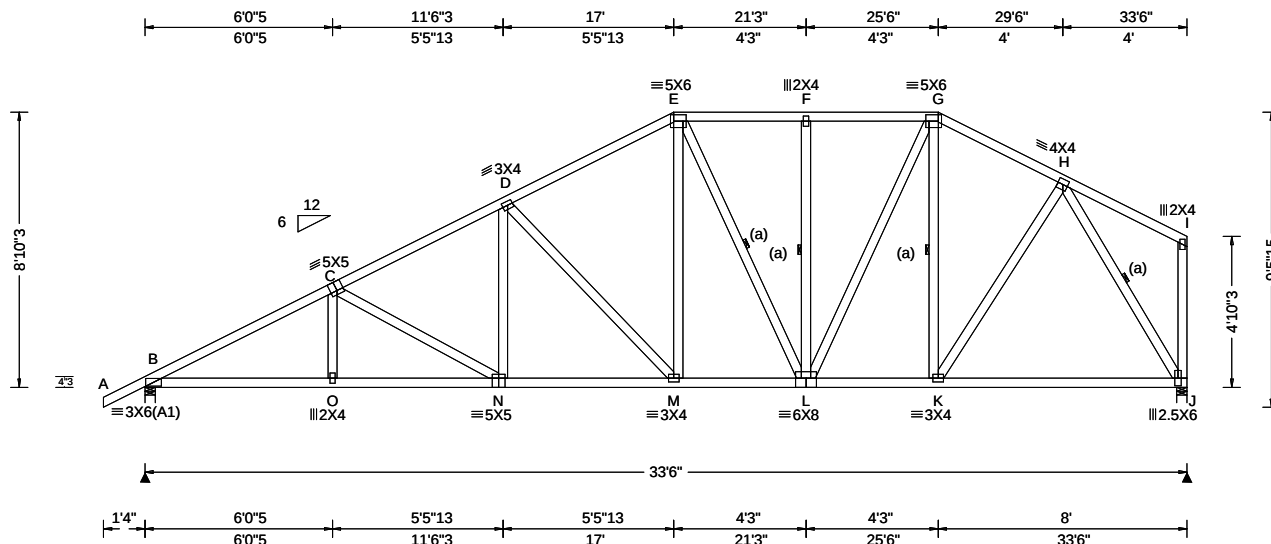


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650902 FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: D02	Cust: R 215 JRef: 1XdW2150003 T30 DrwNo: 076.22.0804.55137 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.35 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.101 N 999 240 VERT(CL): 0.207 N 999 180 HORZ(LL): 0.040 J - - HORZ(TL): 0.082 J - - Creep Factor: 2.0 Max TC CSI: 0.371 Max BC CSI: 0.697 Max Web CSI: 0.807 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1477 /- /- /922 /94 /232 J 1371 /- /- /718 /73 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.7 J Brg Wid = 4.0 Min Req = 1.6 Bearings B & 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. B - C 695 -2545 E - F 601 -1252 C - D 678 -2096 F - G 601 -1252 D - E 637 -1594 G - H 506 -1176

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

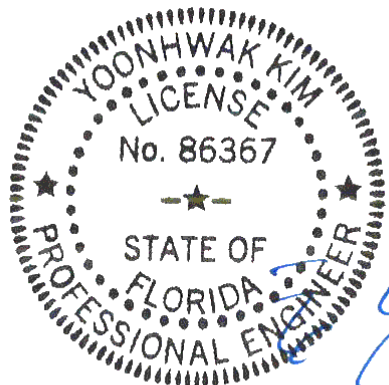
Wind loads based on MWFRS with additional C&C member design.

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 8-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - O	2203 -739	M - L	1353 -477
O - N	2201 -741	L - K	997 -330
N - M	1796 -624	K - J	731 -265

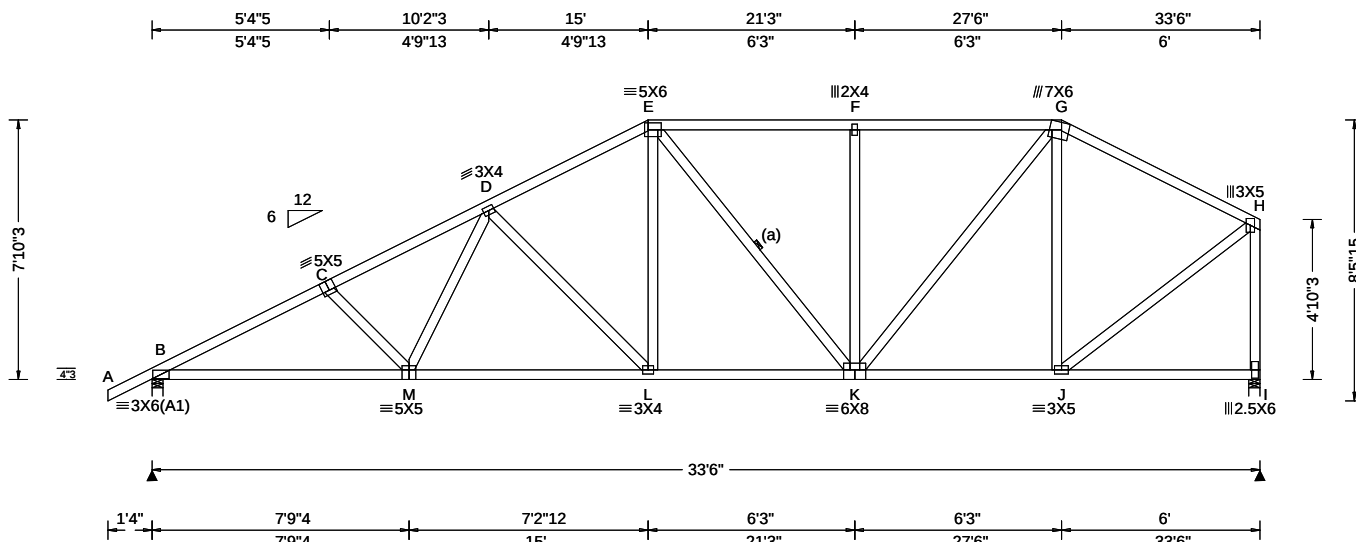
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - N	138 -455	L - G	572 -281
N - D	399 -17	K - H	503 -132
D - M	216 -651	H - J	513 -1412
E - M	585 -104		

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Suite 305
Orlando FL, 32821

SEQN: 650899 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: D03	Cust: R 215 JRef: 1XdW2150003 T37 DrwNo: 076.22.0804.53010 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.35 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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 D 999 240 VERT(CL): 0.206 D 999 180 HORZ(LL): 0.036 J - - HORZ(TL): 0.074 J - - Creep Factor: 2.0 Max TC CSI: 0.568 Max BC CSI: 0.697 Max Web CSI: 0.677 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1477 /- /- /917 /105 /206 I 1371 /- /- /711 /105 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.7 I Brg Wid = 4.0 Min Req = 1.6 Bearings B & 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. B - C 805 -2553 E - F 717 -1440 C - D 791 -2345 F - G 717 -1440 D - E 742 -1770 G - H 476 -1110

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

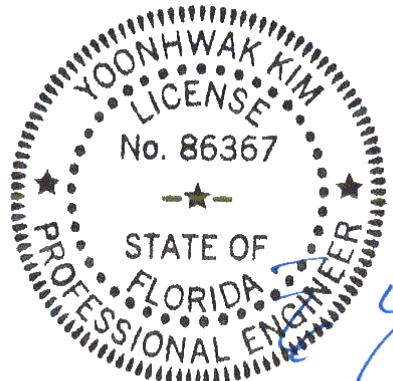
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
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 7'-10"-3.

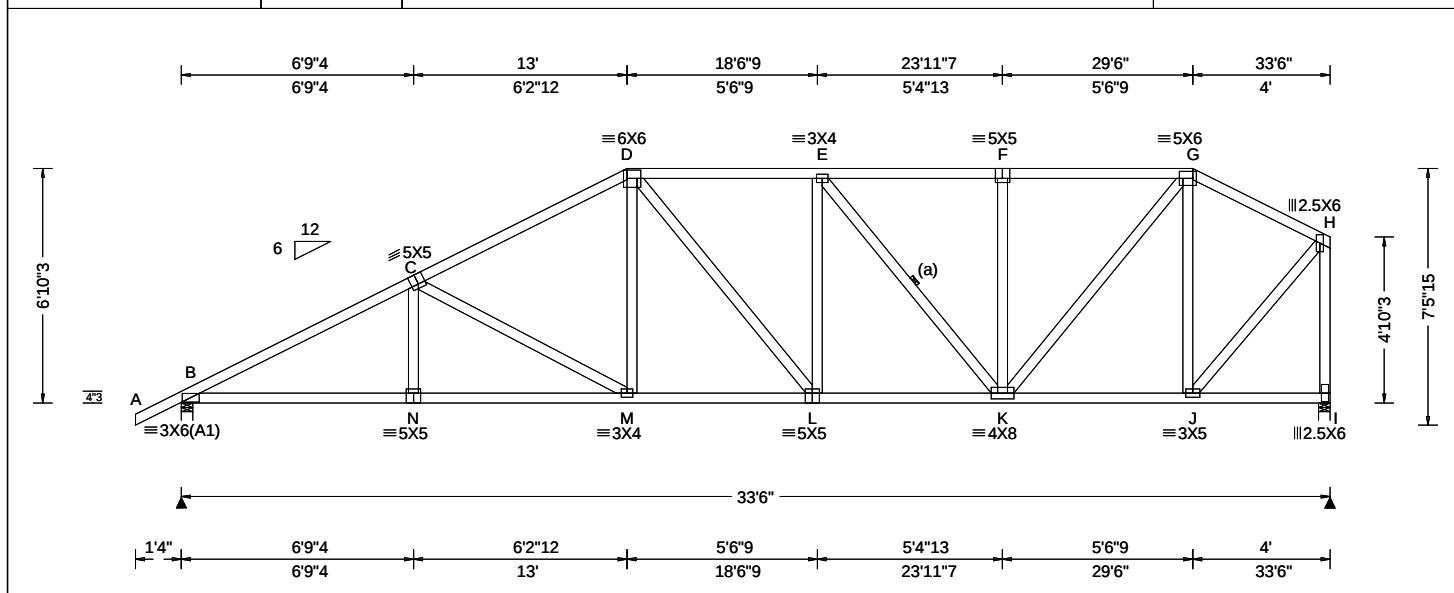


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650895 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: D04	Cust: R 215 JRef: 1XdW2150003 T40 DrwNo: 076.22.0804.51060 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.35 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.104 M 999 240 VERT(CL): 0.213 M 999 180 HORZ(LL): 0.040 J - - HORZ(TL): 0.082 J - - Creep Factor: 2.0 Max TC CSI: 0.465 Max BC CSI: 0.592 Max Web CSI: 0.708 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1477 - / - / 908 / 257 / 180 I 1371 - / - / 700 / 258 - / - Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.7 I Brg Wid = 4.0 Min Req = 1.6 Bearings B & 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. B - C 874 - 2522 E - F 746 - 1454 C - D 837 - 1972 F - G 746 - 1454 D - E 869 - 1749 G - H 419 - 896

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

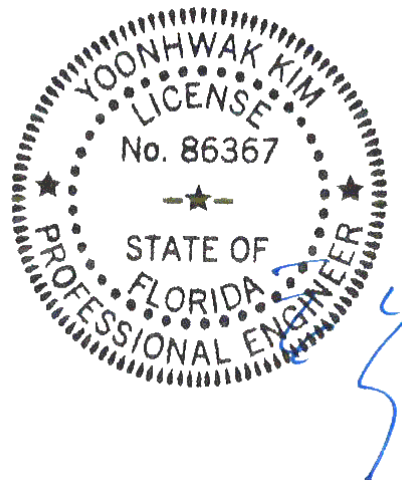
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
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 6-10-3.

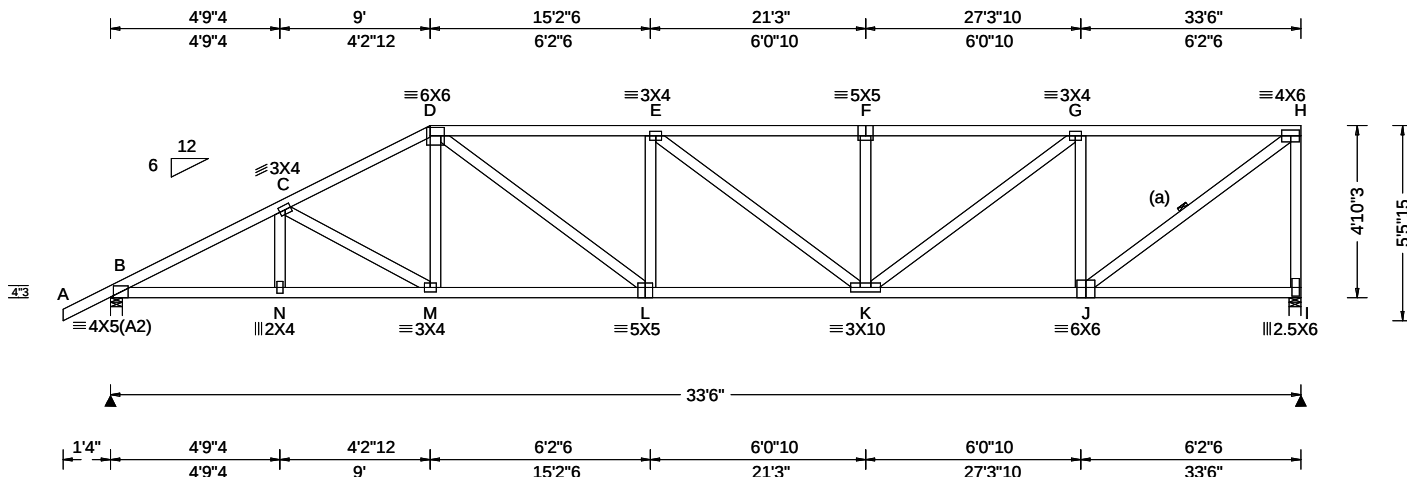


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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Suite 305
Orlando FL, 32821

SEQN: 650889 FROM: CDM	HIPM Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: D06	Cust: R 215 JRef: 1XdW2150003 T38 DrwNo: 076.22.0804.46153 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.35 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.157 E 999 240 VERT(CL): 0.321 E 999 180 HORZ(LL): 0.046 J - - HORZ(TL): 0.093 J - - Creep Factor: 2.0 Max TC CSI: 0.723 Max BC CSI: 0.684 Max Web CSI: 0.737 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1477 - / - / - / 878 / 261 / 177 I 1371 - / - / - / 704 / 266 - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.7 I Brg Wid = 4.0 Min Req = 1.6 Bearings B & 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. B - C 1038 - 2567 E - F 1196 - 2373 C - D 1042 - 2280 F - G 1196 - 2373 D - E 1260 - 2522 G - H 788 - 1545

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

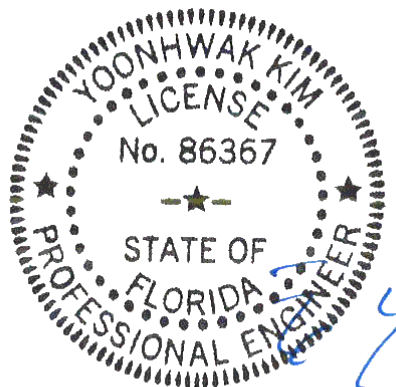
Wind loads based on MWFRS with additional C&C member design.

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 4'-10"-3.

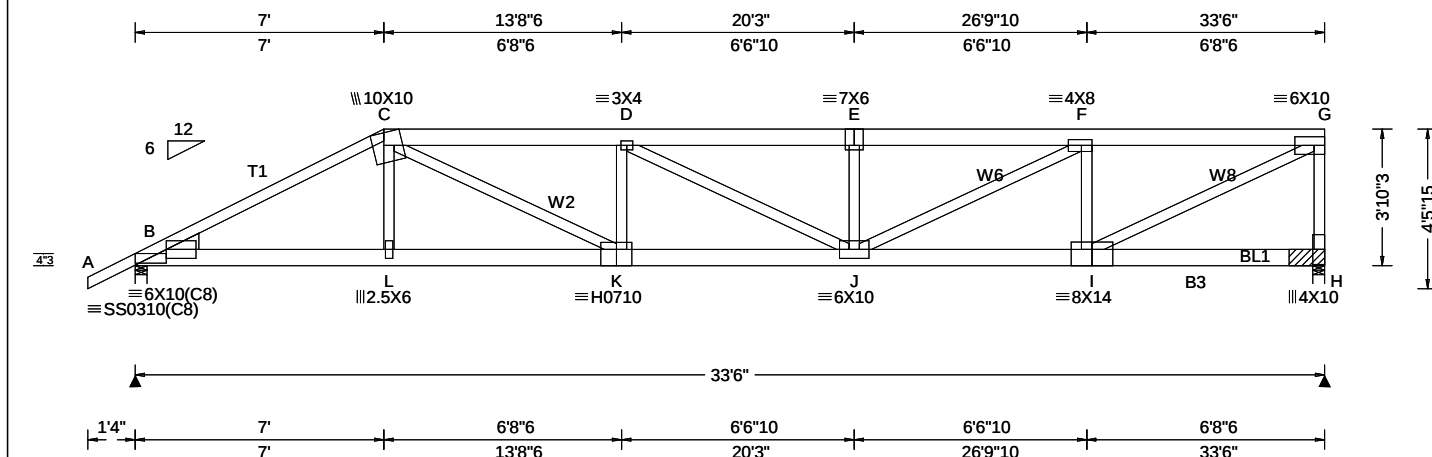


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650935 FROM: CDM	HIPM Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: D07	Cust: R 215 JRef: 1XdW2150003 T41 DrwNo: 076.22.0804.43650 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.35 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): 18SS, WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.319 D 999 240 VERT(CL): 0.641 D 624 180 HORZ(LL): 0.068 C - - HORZ(TL): 0.136 C - - Creep Factor: 2.0 Max TC CSI: 0.529 Max BC CSI: 0.566 Max Web CSI: 0.719 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 3173 -/- /- /- /714 -/ H 3456 -/- /- /- /790 -/ Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 2.6 H Brg Wid = 4.0 Min Req = - 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 1443 - 6372 E - F 1835 - 8091 C - D 1858 - 8194 F - G 1228 - 5423 D - E 1835 - 8091

Lumber

Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E; B3 2x6 SP #2;
Webs: 2x4 SP #3; W2, W6 2x4 SP #2;
W8 2x4 SP M-31;
Lt Wedge: 2x6 SP #2;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 62 plf at -1.33 to 62 plf at 7.00
TC: From 31 plf at 7.00 to 31 plf at 33.50
BC: From 4 plf at -1.33 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 33.50
TC: 264 lb Conc. Load at 7.03
TC: 189 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
BC: 479 lb Conc. Load at 7.03
BC: 129 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

Purlins

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

Wind

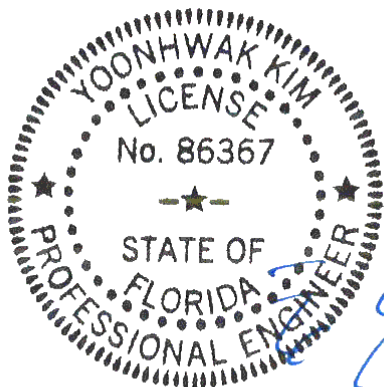
Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Bearing Block(s)

Brg blocks: 0.131"x3", min. nails
brg x-loc #blocks length/blk #nails/blk wall plate
2 33.167' 1 12" 4 Rigid Surface
Brg block to be same size and species as chord.
Refer to drawing CNNAILSP1014 for more information.

Additional Notes

The overall height of this truss excluding overhang is
3-10-3.

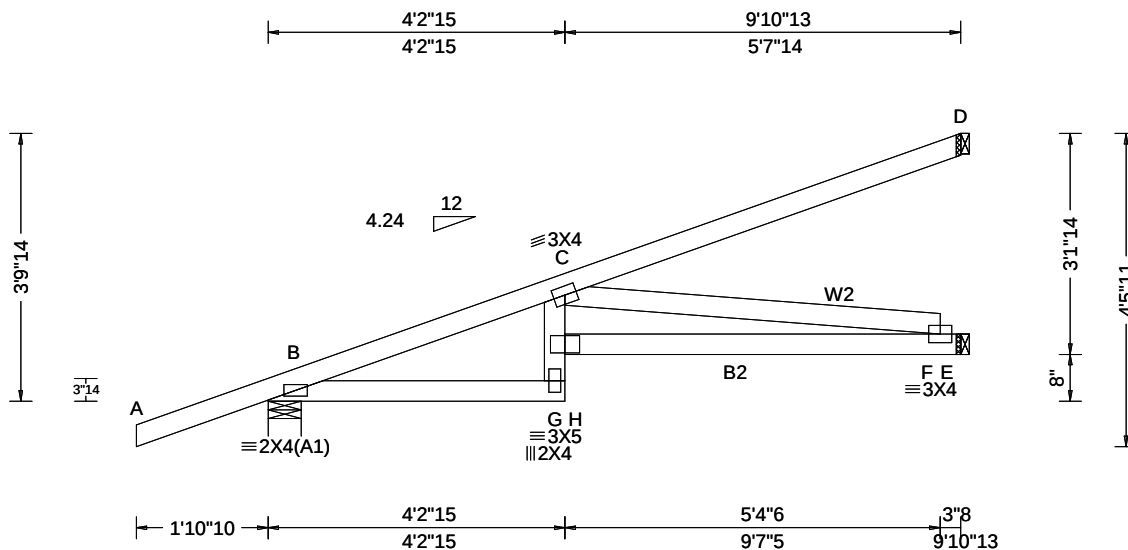


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650858 FROM: CDM	HIP_ Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: HJ01	Cust: R 215 JRef: 1XdW2150003 T8 DrwNo: 076.22.0803.53553 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.078 G 999 240 VERT(CL): 0.155 G 754 180 HORZ(LL): 0.028 F - - HORZ(TL): 0.057 F - - Creep Factor: 2.0 Max TC CSI: 0.574 Max BC CSI: 0.537 Max Web CSI: 0.756 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 361 /- /- /- /164 /- E 310 /- /0 /- /81 /0 D 76 /- /- /- /23 /- Wind reactions based on MWFRS B Brg Wid = 5.7 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 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 248 - 703 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - H 659 - 217 G - F 1184 - 381 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. C - F 385 - 1199

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP M-31; W2 2x4 SP #3;

Special Loads

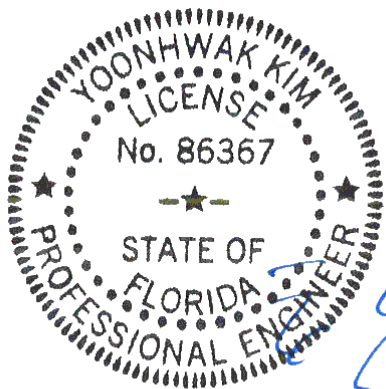
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -1.89 to 61 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 9.90
BC: From 0 plf at -1.89 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 9.90
TC: -29 lb Conc. Load at 1.48
TC: 131 lb Conc. Load at 4.31, 7.13
BC: 13 lb Conc. Load at 1.48
BC: 100 lb Conc. Load at 4.31
BC: 252 lb Conc. Load at 7.13

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 3-9-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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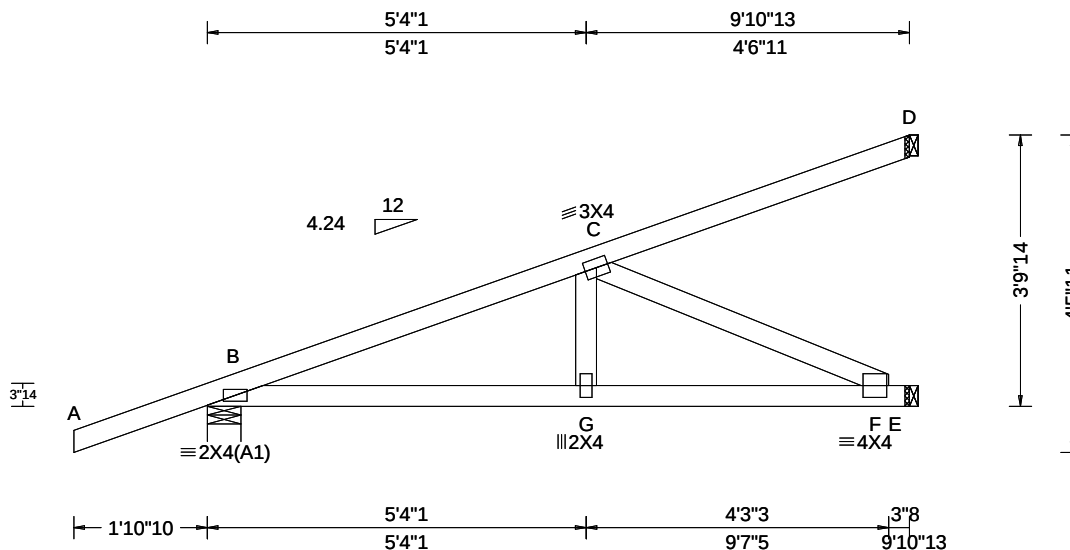
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650864 FROM: CDM	HIP_	Ply: 1 Qty: 2	Job Number: 22-7136 Hiett Truss Label: HJ02	Cust: R 215 JRef: 1XdW2150003 T35 DrwNo: 076.22.0803.45107 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.023 G 999 240 VERT(CL): 0.045 G 999 180 HORZ(LL): 0.005 F - - HORZ(TL): 0.011 F - - Creep Factor: 2.0 Max TC CSI: 0.552 Max BC CSI: 0.653 Max Web CSI: 0.338 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 361 /- /- /- /164 /- E 350 /- /- /- /74 /- D 76 /- /- /- /28 /- Wind reactions based on MWFRS B Brg Wid = 5.7 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

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

Special Loads

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

TC: From	0 plf at	-1.89 to	61 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	9.90
BC: From	0 plf at	-1.89 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	9.90
TC:	-29 lb Conc. Load at	1.48		
TC:	131 lb Conc. Load at	4.31		
TC:	259 lb Conc. Load at	7.13		
BC:	13 lb Conc. Load at	1.48		
BC:	100 lb Conc. Load at	4.31		
BC:	180 lb Conc. Load at	7.13		

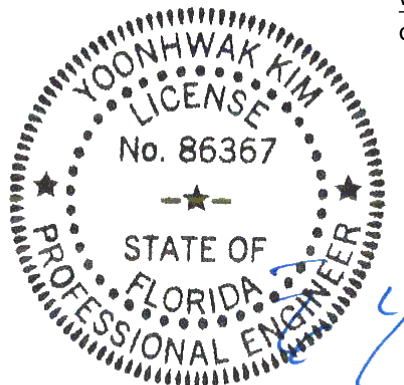
Wind

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 3-9-14.

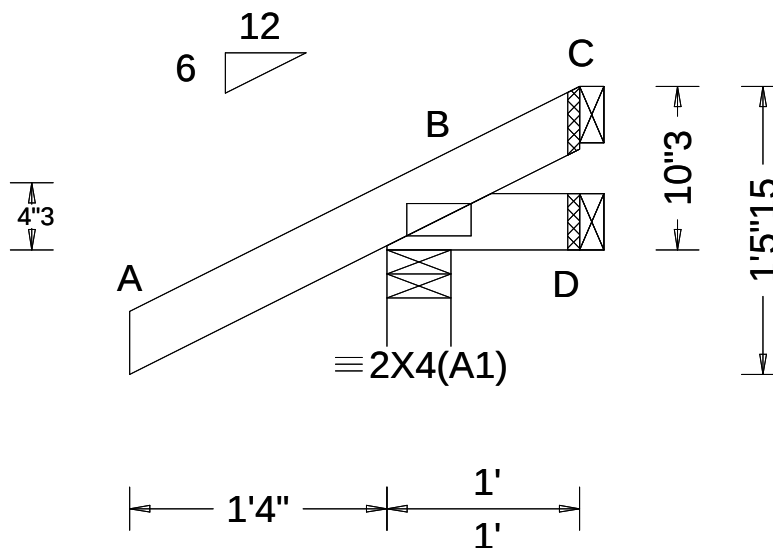


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650849 FROM: CDM	JACK Ply: 1 Qty: 6	Job Number: 22-7136 Hiett Truss Label: J01	Cust: R 215 JRef: 1XdW2150003 T29 DrwNo: 076.22.0802.18347 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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: 0.195 Max BC CSI: 0.027 Max Web CSI: 0.000 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 222 /- /- /175 /57 /36 D 6 /-12 /- /13 /12 /- C - /-39 /- /28 /38 /- Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

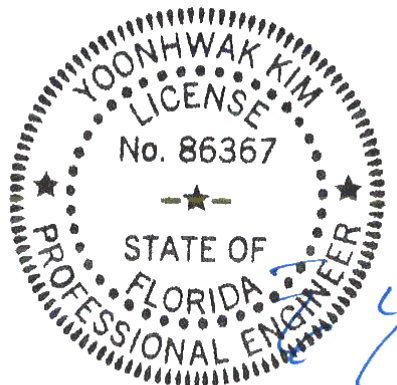
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

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 0-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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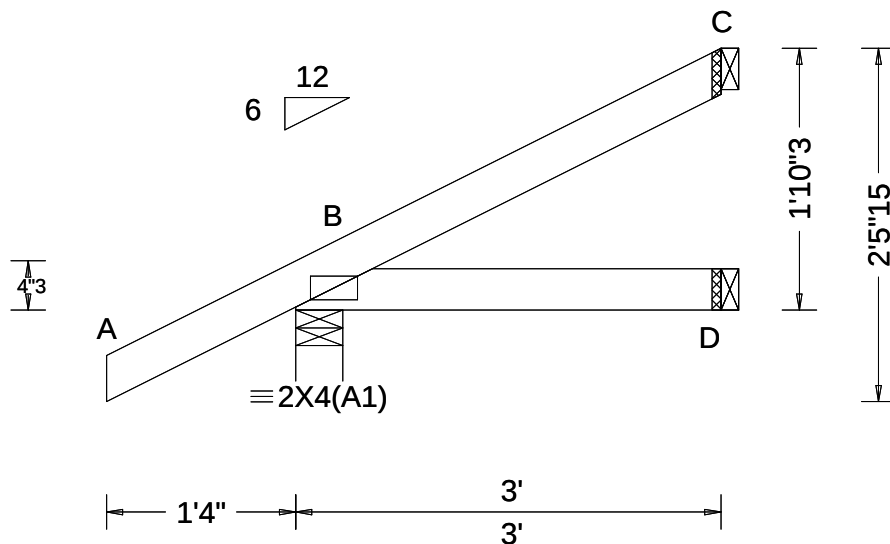
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650852 FROM: CDM	JACK Ply: 1 Qty: 6	Job Number: 22-7136 Hiett Truss Label: J02	Cust: R 215 JRef: 1XdW2150003 T32 DrwNo: 076.22.0802.16170 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.201 Max BC CSI: 0.066 Max Web CSI: 0.000 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 244 /- /- /175 /37 /71 D 50 /- /- /27 /- /- C 66 /- /- /39 /35 /- Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

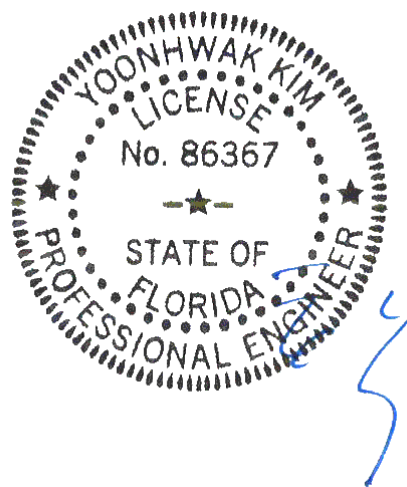
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

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 1-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

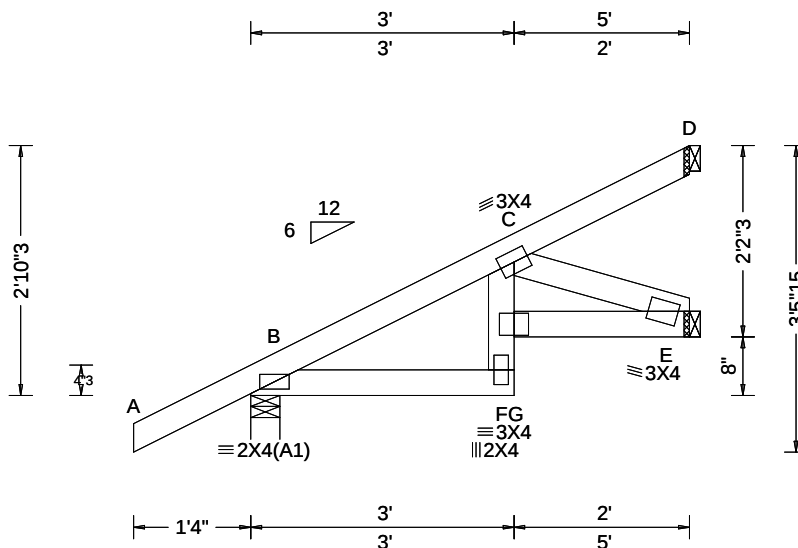
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650854 FROM: CDM	JACK Ply: 1 Qty: 2	Job Number: 22-7136 Hiett Truss Label: J03	Cust: R 215 JRef: 1XdW2150003 T16 DrwNo: 076.22.0802.14207 KD / YK 03/17/2022
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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:	10.00	Speed:	130 mph	Pf: NA	Ce: NA		VERT(LL): 0.006 F 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL): 0.012 F 999 180	B	309	/-	/-	/213	/38	/106
BCDL:	10.00	Risk Category:	II	Snow Duration: NA			HORZ(LL): 0.005 E - -	E	126	/-	/-	/91	/28	/-
Des Ld:	40.00	EXP: C	Kzt: NA				HORZ(TL): 0.010 E - -	D	66	/-	/-	/44	/27	/-
NCBCLL:	10.00	Mean Height:	15.00 ft	Building Code:			Creep Factor: 2.0	Wind reactions based on MWFRS						
Soffit:	2.00	TCDL:	5.0 psf	FBC 7th Ed. 2020 Res.			Max TC CSI: 0.132	B Brg Wid = 4.0 Min Req = 1.5						
Load Duration:	1.25	BCDL:	5.0 psf	TPI Std: 2014			Max BC CSI: 0.073	E Brg Wid = 1.5						
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac: Yes			Max Web CSI: 0.319	D Brg Wid = 1.5						
		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:	1.60	WAVE			VIEW Ver: 21.01.01A.0521.20							

Lumber

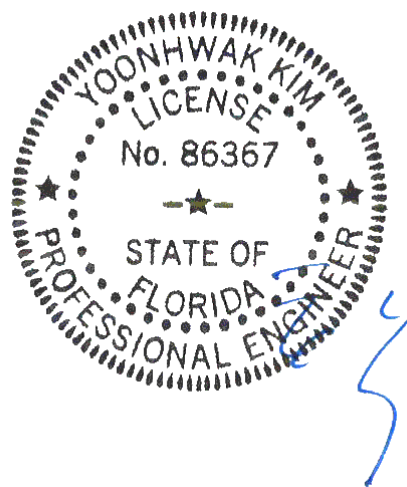
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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 2-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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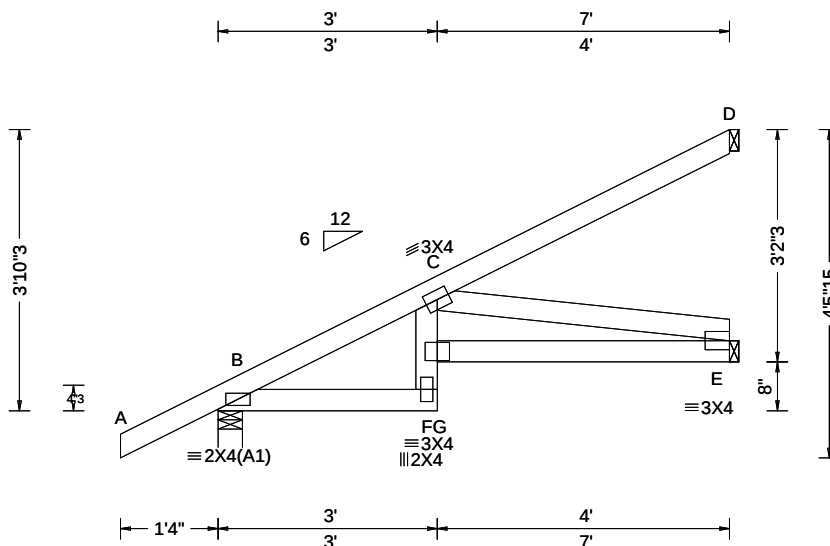
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650856 FROM: CDM	EJAC Ply: 1 Qty: 4	Job Number: 22-7136 Hiett Truss Label: J04	Cust: R 215 JRef: 1XdW2150003 T15 DrwNo: 076.22.0802.11187 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.025 F 999 240 VERT(CL): 0.051 F 999 180 HORZ(LL): 0.014 E - - HORZ(TL): 0.029 E - - Creep Factor: 2.0 Max TC CSI: 0.263 Max BC CSI: 0.281 Max Web CSI: 0.752 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 394 /- /- /267 /43 /142 E 163 /- /- /118 /18 /- D 118 /- /- /75 /60 /- Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

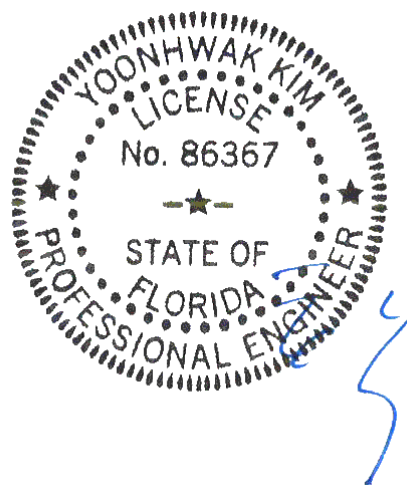
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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 3-10-3.

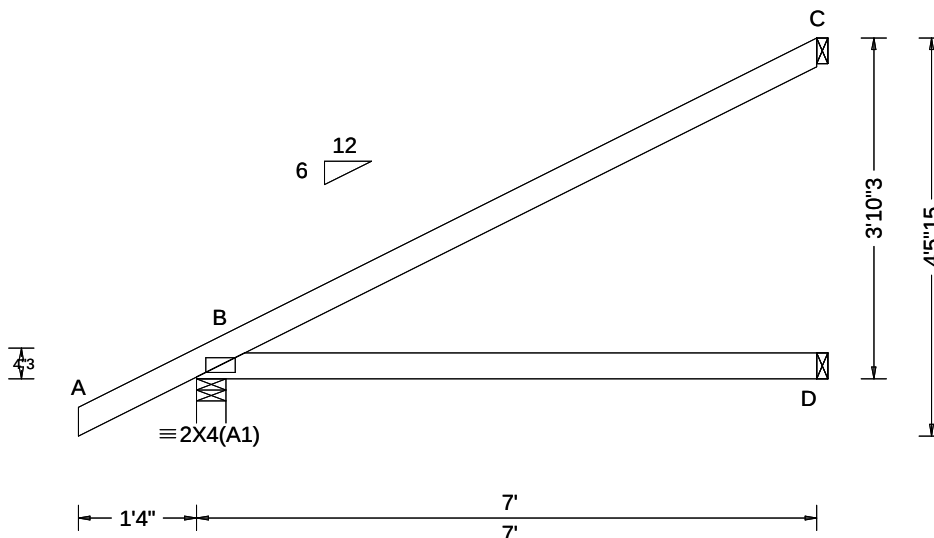


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 650860 FROM: CDM	EJAC Ply: 1 Qty: 26	Job Number: 22-7136 Hiett Truss Label: J05	Cust: R 215 JRef: 1XdW2150003 T34 DrwNo: 076.22.0802.08133 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCcp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.723 Max BC CSI: 0.516 Max Web CSI: 0.000 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 394 /- /- /267 /43 /142 D 129 /- /- /74 /- /- C 189 /- /- /119 /94 /- Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

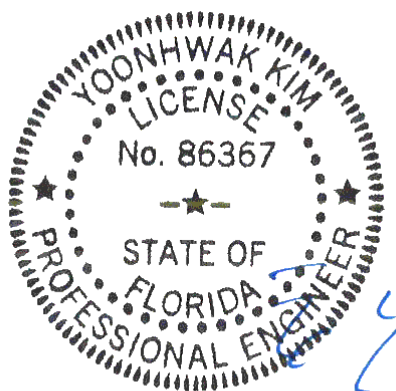
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

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 3-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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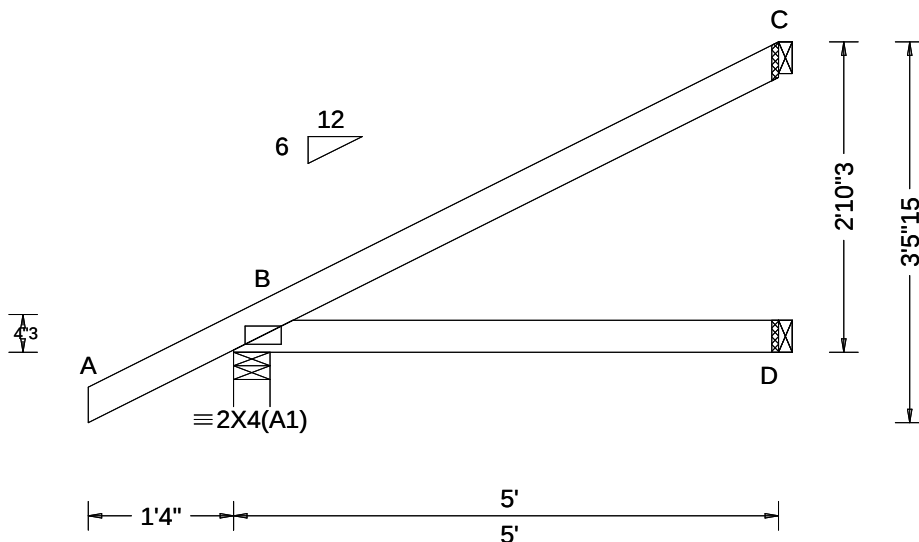
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Suite 305
Orlando FL, 32821

SEQN: 650862 FROM: CDM	JACK Ply: 1 Qty: 4	Job Number: 22-7136 Hiett Truss Label: J06	Cust: R 215 JRef: 1XdW2150003 T31 DrwNo: 076.22.0802.05793 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.004 B - - HORZ(TL): 0.009 B - - Creep Factor: 2.0 Max TC CSI: 0.322 Max BC CSI: 0.237 Max Web CSI: 0.000 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 316 /- /- /219 /39 /106 D 90 /- /- /49 /- /- C 129 /- /- /81 /65 /- Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

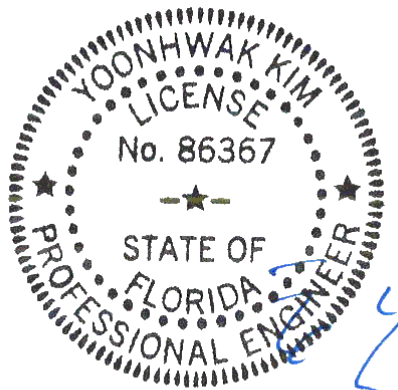
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

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 2-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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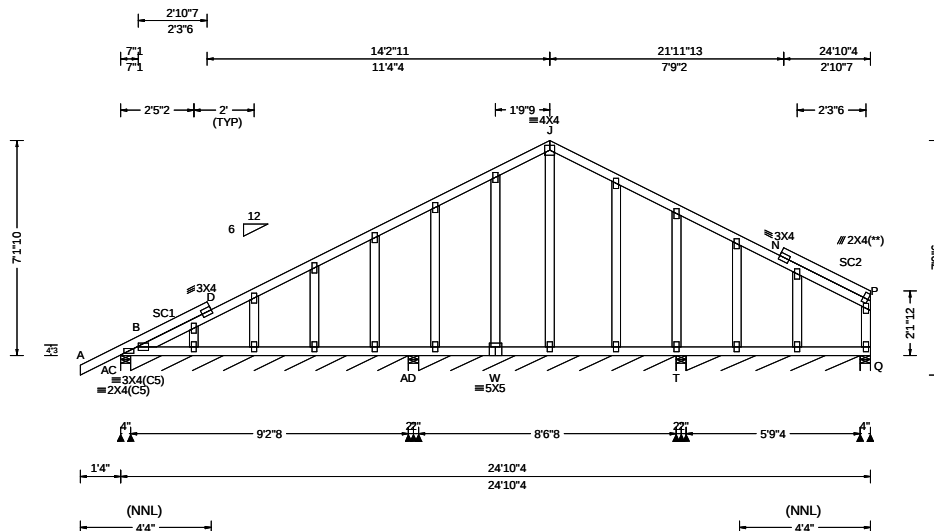
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 424552 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 22-7136 Hiett Truss Label: B01	Cust: R 215 JRef: 1XdW2150003 T6 DrwNo: 076.22.0805.38743 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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 N 999 240 VERT(CL): 0.005 N 999 180 HORZ(LL): 0.001 N - - HORZ(TL): 0.002 N - - Creep Factor: 2.0 Max TC CSI: 0.199 Max BC CSI: 0.040 Max Web CSI: 0.116 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL AC 245 - / - /170 /63 /57 B* 66 - / - /36 - / - AD 27 - / - /14 - / - AD*78 - / - /41 - / - T 152 - / - /82 - / - T* 59 - / - /36 - / - Q 106 - / - /71 /27 - Non-Gravity Wind reactions based on MWFRS AC Brg Wid = 4.0 Min Req = 1.5 B Brg Wid = 110 Min Req = - AD Brg Wid = 4.0 Min Req = 1.5 AD Brg Wid = 102 Min Req = - T Brg Wid = 4.0 Min Req = 1.5 T Brg Wid = 69.3 Min Req = - Q Brg Wid = 4.0 Min Req = 1.5 Bearings AC, B, AD, AD, T, T, & Q 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;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

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.

Loading

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

Purlins

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

Wind

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

Right end vertical not exposed to wind pressure.

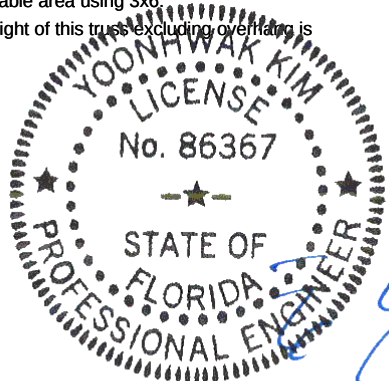
Wind loading based on both gable and hip roof types.

Additional Notes

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 7'-11.0".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

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

- Members:**
 - Top chord: $\equiv 4 \times 5$ (D), $\equiv 5 \times 5$ (C), $\equiv 2.5 \times 6$ (E)
 - Bottom chord: $\equiv 2.5 \times 6$ (A1), $\equiv 5 \times 6$ (H), $\equiv 2.5 \times 6$ (G)
 - Vertical supports: $\equiv 2 \times 4$ (I), $\equiv 5 \times 6$ (H), $\equiv 2 \times 4$ (F)
 - Diagonal bracing: $\equiv 2.5 \times 6$ (E), $\equiv 2 \times 4$ (F)
- Joints:** A, B, C, D, E, F, G, H, I.
- Dimensions:**
 - Overall width: $24'10''4$
 - Overall height: $7'5''8$ and $8'1''4$
 - Horizontal segments (top): $7'4''10$, $14'2''11$, $21'0''13$, $24'10''4$
 - Horizontal segments (bottom): $1'4''$, $7'4''10$, $6'10''2$, $10'7''9$
 - Vertical segments: $21'1''12$
- Notes:**
 - Member A1 is labeled $\equiv 2.5 \times 6$ (A1).
 - Member H is labeled $\equiv 5 \times 6$.
 - Member G is labeled $\equiv 2.5 \times 6$.
 - Member F is labeled $\equiv 2 \times 4$.
 - Member I is labeled $\equiv 2 \times 4$.

Lumber	C - D	562 - 1114		
Top chord: 2x4 SP #2;	Maximum Bot Chord Forces Per Ply (lbs)			
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;				
Webbs: 2x4 SP #3;				
	Chords	Tens.Comp.	Chords	Tens. Comp.

Wind	B - I	1458	-576	H - G	873	-409
Wind loads based on MWFRS with additional C&C member design.	I - H	1455	-577			
	Maximum Web Forces Per Plb (lbs)					

Right end vertical not exposed to wind pressure.

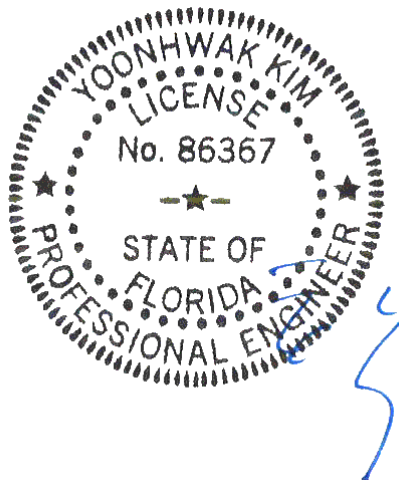
Wind loading based on both gable and hip roof types.

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
100	100	100	100

Additional Notes

The overall height of this truss excluding overhang is 7'-5-8



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

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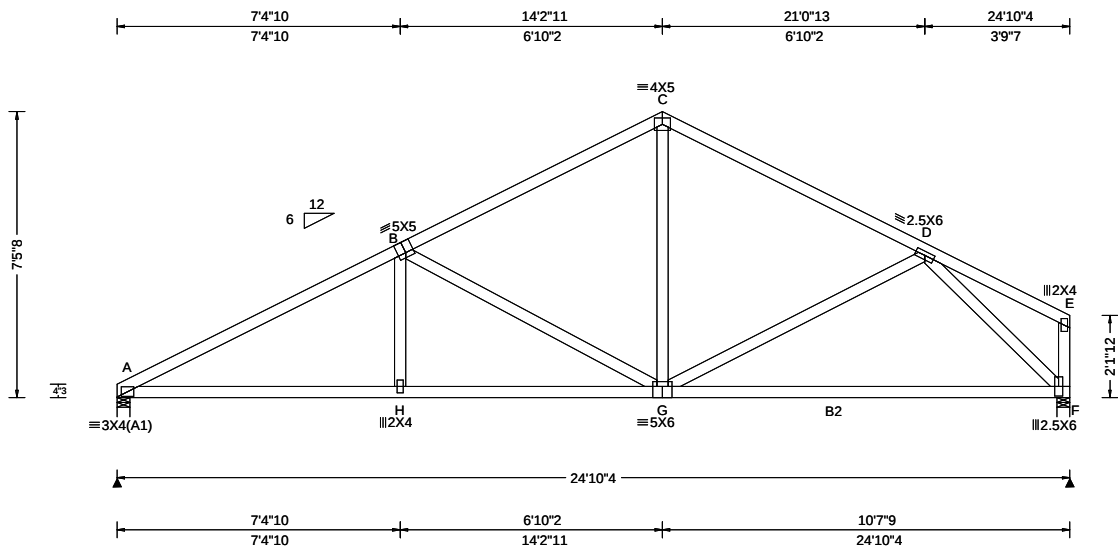
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6750 Forum Drive
 Suite 305
 Orlando FL, 32821

SEQN: 424559 FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 22-7136 Hiett Truss Label: B03	Cust: R 215 JRef: 1XdW2150003 T3 DrwNo: 076.22.0805.34683 KD / YK 03/17/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.051 H 999 240 VERT(CL): 0.104 H 999 180 HORZ(LL): 0.021 F - - HORZ(TL): 0.043 F - - Creep Factor: 2.0 Max TC CSI: 0.569 Max BC CSI: 0.908 Max Web CSI: 0.744 VIEW Ver: 21.01.01A.0521.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1030 /- /- /609 /173 /183 F 1017 /- /- /557 /176 /- Wind reactions based on MWFRS A Brg Wid = 4.0 Min Req = 1.5 F Brg Wid = 4.0 Min Req = 1.5 Bearings A & 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. A - B 453 -1744 C - D 349 -1119 B - C 367 -1121

Lumber

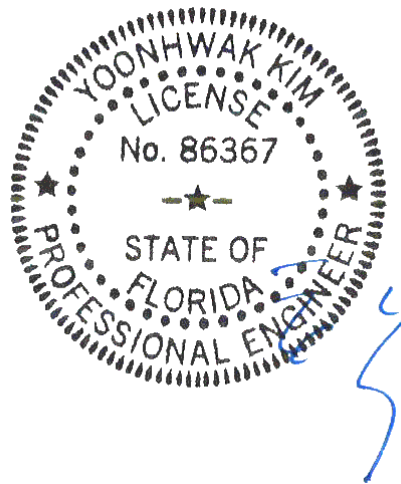
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;

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 7'-5-8".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/17/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	1482 -371	G - F	877 -264
H - G	1479 -372		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - G	258 -645	D - F	387 -1198
C - G	561 -80		

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

NAIL SPACING DETAIL

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

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

LOAD PERPENDICULAR TO GRAIN

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

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

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

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

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

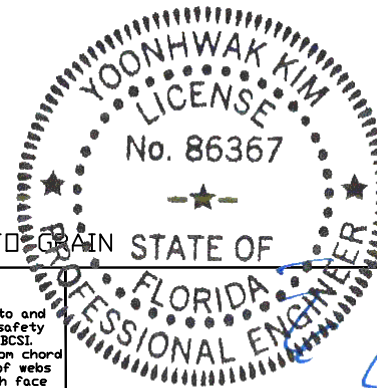
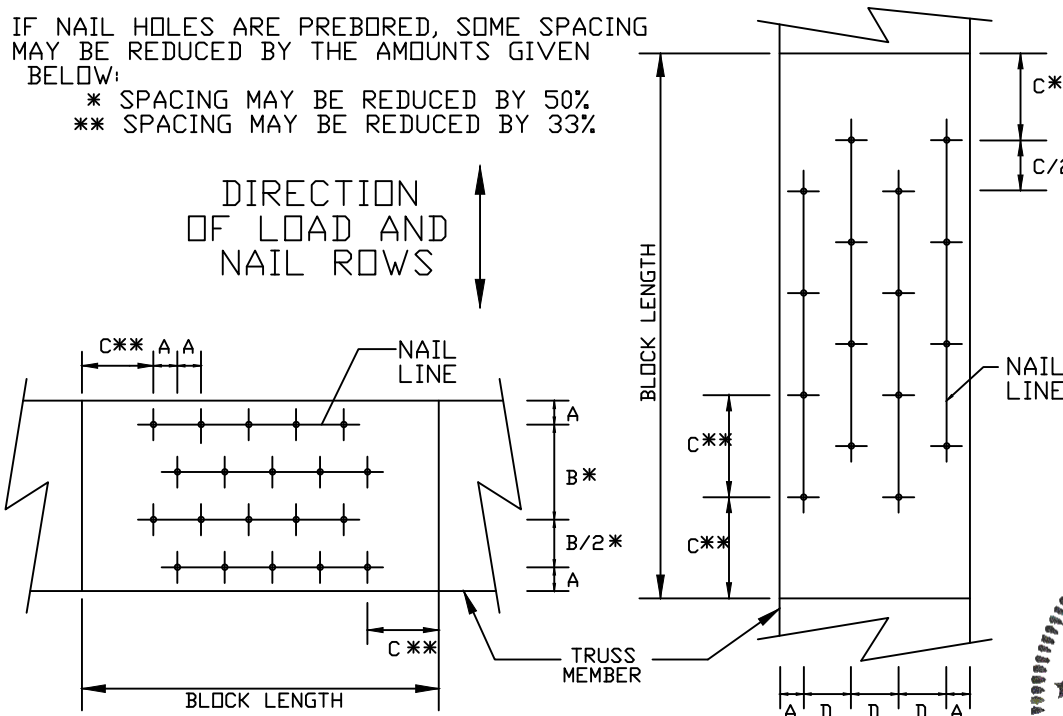
IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

* SPACING MAY BE REDUCED BY 50%

** SPACING MAY BE REDUCED BY 33%

MINIMUM NAIL SPACING DISTANCES

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



LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

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



514 Earth City Expressway
Suite 242
Earth City, MO 63045

REF NAIL SPACE
DATE 10/01/14
DRWG CNNAILSP1014

Yoonhwak Kim, FL PE #86367

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.

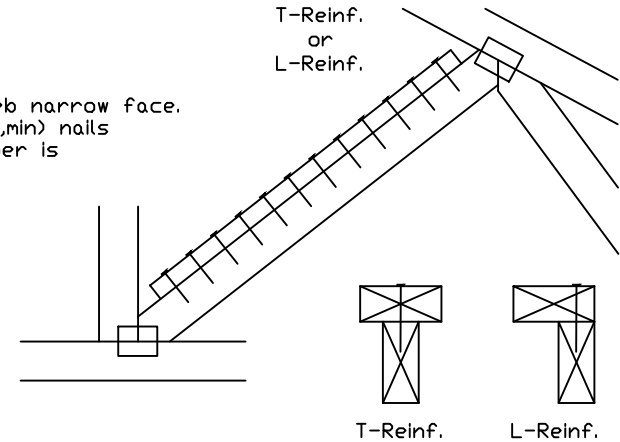
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x6(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

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

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

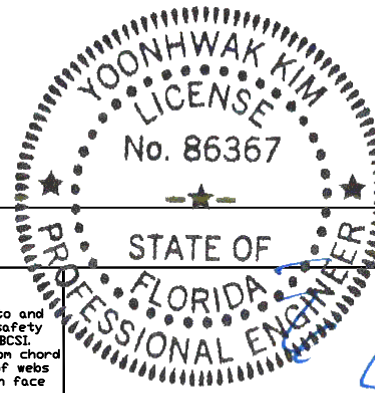
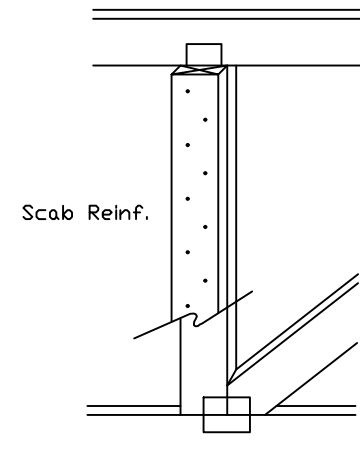
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



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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			

78, Yoonhwak Kim, FL PE #86367

Gable Stud Reinforcement Detail

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

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

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

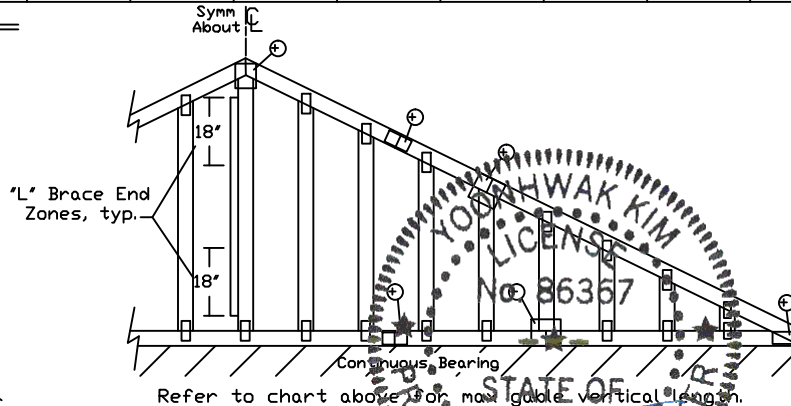
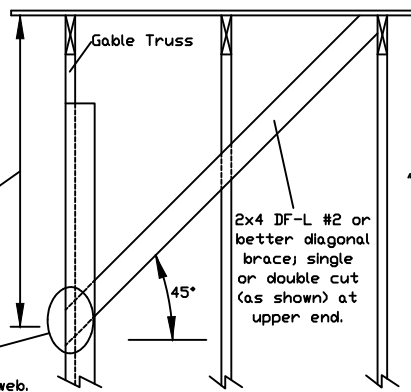
Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
			#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
			Stud	4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Standard	#1	4' 6"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"
			#2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
			#3	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
	SP DFL	Stud	#1	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
			#2	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"	14' 0"
			Standard	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"	14' 0"
		#1 / #2	#1	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 8"	8' 1"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	8' 1"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	Standard	#1	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	#1	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 9"	7' 4"	7' 9"	9' 9"	10' 3"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	Stud	#1	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 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 DFL	#1 / #2	#1	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	#1	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	#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"
	SP DFL	Stud	#1	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	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 450# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

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

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

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 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.

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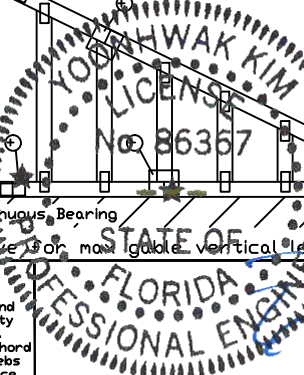
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514 Earth City Expressway
Suite 242
Earth City, MO 63045



MAX. TOT. LD. 60 PSF

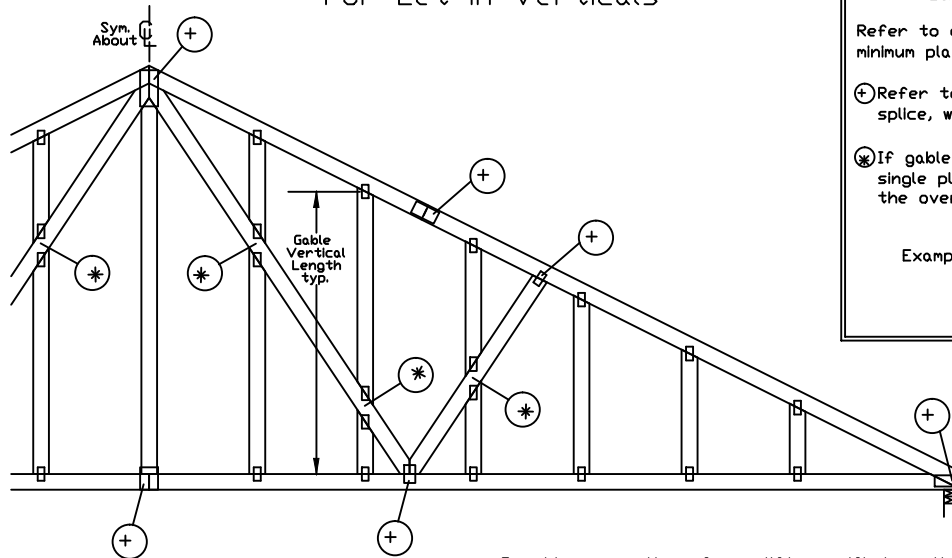
MAX. SPACING 24.0"

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

Gable Detail For Let-in Verticals

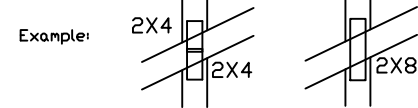


Gable Truss Plate Sizes

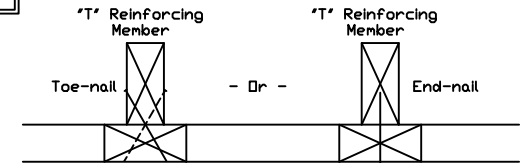
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

① Refer to Engineered truss design for peak, splice, web, and heel plates.

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



"T" Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

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

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30

(1) 2x4 "L" Brace Length = 8' 7"

Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3", min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3", min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

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

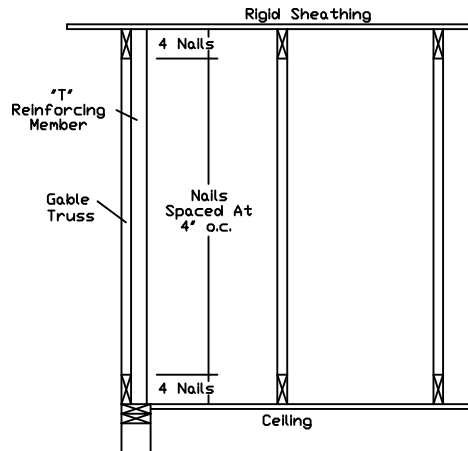
ASCE 7-05 Gable Detail Drawings

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

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A10015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015P100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A10030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030P100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015P100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030P100118

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



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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

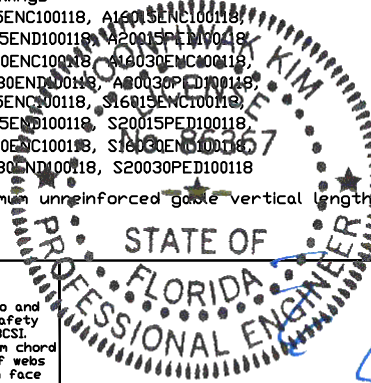
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this Job's general notes page and these web sites: 03/17/2022
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



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Yoonhwak Kim, FL PE #86367

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"