

Alpine, an ITW Company
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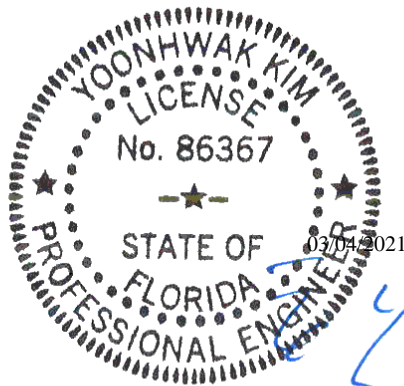
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 20-4565
Job Description: Senn Res.- 52" Ceiling fan in both Garages	
Address: LOT 22 BLACKBERRY FARMS, Lake City, FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res	IntelliVIEW Version: 20.01.01A JRef #: 1X3f2150001
Wind Standard: ASCE 7-16 Wind Speed (mph): 130 Building Type: Closed	Design Loading (psf): 40.00

This package contains general notes pages, 59 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss
1	063.21.1320.31203	A01
3	063.21.1320.35123	A03
5	063.21.1320.38630	A05
7	063.21.1320.42530	A07
9	063.21.1320.48797	B01
11	063.21.1320.53323	B03
13	063.21.1320.58227	B05
15	063.21.1321.03487	B07
17	063.21.1321.15317	B09
19	063.21.1321.35127	B11
21	063.21.1321.39177	C02
23	063.21.1321.51497	C04
25	063.21.1322.23150	C06
27	063.21.1322.26877	D02
29	063.21.1322.30460	G02
31	063.21.1322.34740	H01
33	063.21.1322.38100	H03
35	063.21.1322.41713	HJ1
37	063.21.1322.45290	HJ3
39	063.21.1322.46943	J1A
41	063.21.1322.48460	J3
43	063.21.1322.50140	J4
45	063.21.1322.51590	J6
47	063.21.1322.53000	J7A
49	063.21.1322.56050	P01
51	063.21.1322.59613	P03

Item	Drawing Number	Truss
2	063.21.1320.33350	A02
4	063.21.1320.36973	A04
6	063.21.1320.40647	A06
8	063.21.1320.46310	A08
10	063.21.1320.50967	B02
12	063.21.1320.56070	B04
14	063.21.1321.00987	B06
16	063.21.1321.05593	B08
18	063.21.1321.17910	B10
20	063.21.1321.37340	C01
22	063.21.1321.40730	C03
24	063.21.1321.57567	C05
26	063.21.1322.25293	D01
28	063.21.1322.28907	G01
30	063.21.1322.33090	G03
32	063.21.1322.36227	H02
34	063.21.1322.39800	H04
36	063.21.1322.43317	HJ2
38	063.21.1322.46050	J1
40	063.21.1322.47820	J2
42	063.21.1322.49313	J3A
44	063.21.1322.50890	J5
46	063.21.1322.52307	J7
48	063.21.1322.54230	J7B
50	063.21.1322.58147	P02
52	063.21.1323.00920	V1



FL REG# 278, Yoonhwak Kim, FL PE #86367

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Job Description: Senn Res.- 52" Ceiling fan in both Garages	
Address: LOT 22 BLACKBERRY FARMS, Lake City, FL	

Item	Drawing Number	Truss
53	063.21.1323.01633	V2
55	063.21.1323.03250	V4
57	063.21.1323.05080	V6
59	063.21.1323.08690	V8
61	PB160160118	
63	GBLLETIN0118	
65	VAL180160118	

Item	Drawing Number	Truss
54	063.21.1323.02410	V3
56	063.21.1323.04063	V5
58	063.21.1323.06040	V7
60	BRCLBSUB0119	
62	A14015ENC160118	
64	A14030ENC160118	
66	VALTN160118	

General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

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.

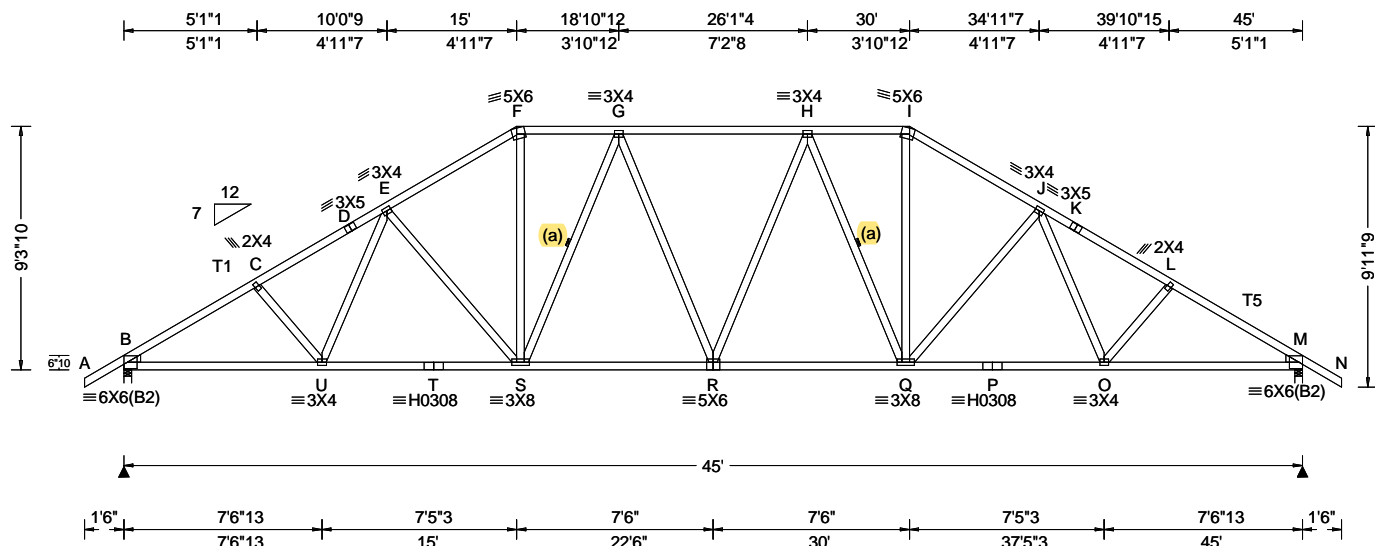
Refer to ASCE-7 for Wind and Seismic abbreviations.

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.sbcindustry.com.

SEQN: 409948 FROM: CDM	HIPS Qty: 9	Ply: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: A01	Cust: R 215 JRef: 1X3f2150001 T18 DrwNo: 063.21.1320.31203 / YK 03/04/2021
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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: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.247 R 999 360 VERT(CL): 0.451 R 999 240 HORZ(LL): 0.107 O - - HORZ(TL): 0.196 O - - Creep Factor: 2.0 Max TC CSI: 0.771 Max BC CSI: 0.623 Max Web CSI: 0.603 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2235 - / - / - /1189 - /288 M 2234 - / - / - /1189 - / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.9 M Brg Width = 3.5 Min Req = 1.9 Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -3583 H - I 0 -2485 C - D 0 -3405 I - J 0 -2946 D - E 0 -3289 J - K 0 -3288 E - F 0 -2947 K - L 0 -3403 F - G 0 -2487 L - M 0 -3582 G - H 0 -2765

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Purlins

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

Wind

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

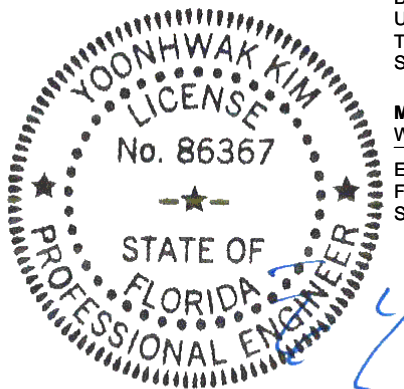
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 9'-3"-10'.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - U	2978	R - Q	2705
U - T	2790	Q - P	2789
T - S	2790	P - O	2789
S - R	2706	O - M	2977

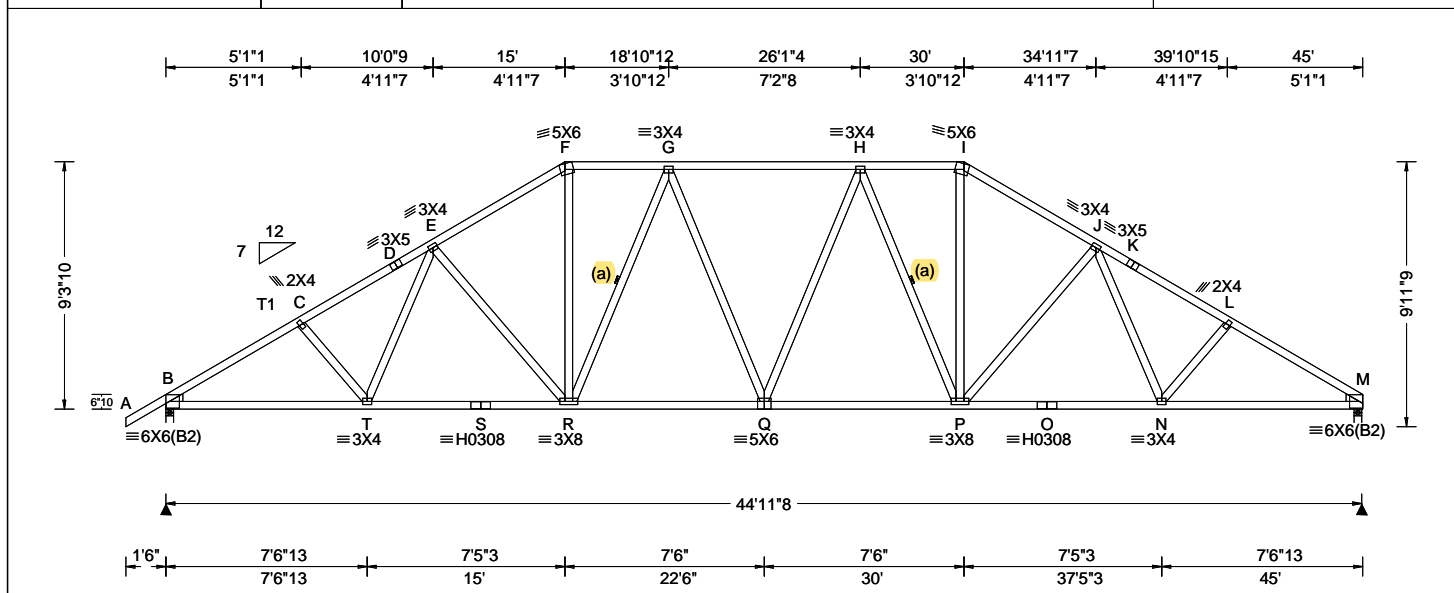
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
E - S	113	H - Q	0
F - S	1207	Q - I	1209
S - G	0	Q - J	117

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation 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: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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SEQN: 409949 FROM: CDM	HIPS Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: A02	Cust: R 215 JRRef: 1X3f2150001 T16 DrwNo: 063.21.1320.33350 / YK 03/04/2021
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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: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.258 Q 999 360 VERT(CL): 0.473 Q 999 240 HORZ(LL): 0.103 N - - HORZ(TL): 0.189 N - - Creep Factor: 2.0 Max TC CSI: 0.769 Max BC CSI: 0.803 Max Web CSI: 0.603 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 2231 - / - /1181 - /272 M 2137 - / - /1098 - /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.8 M Brg Width = 3.5 Min Req = 1.8 Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -3576 H - I 0 -2474 C - D 0 -3397 I - J 0 -2932 D - E 0 -3282 J - K 0 -3256 E - F 0 -2940 K - L 0 -3371 F - G 0 -2480 L - M 0 -3560 G - H 0 -2755

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3; Rt Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Purlins

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

Wind

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

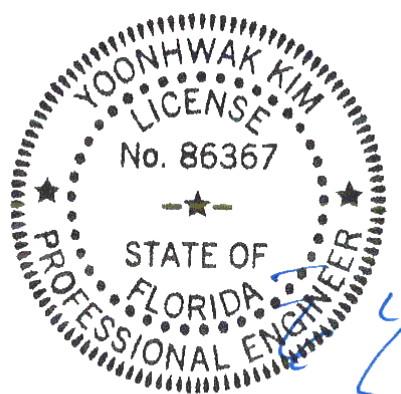
Wind loading based on both gable and hip roof types.

Additional Notes

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Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 9-3-10.



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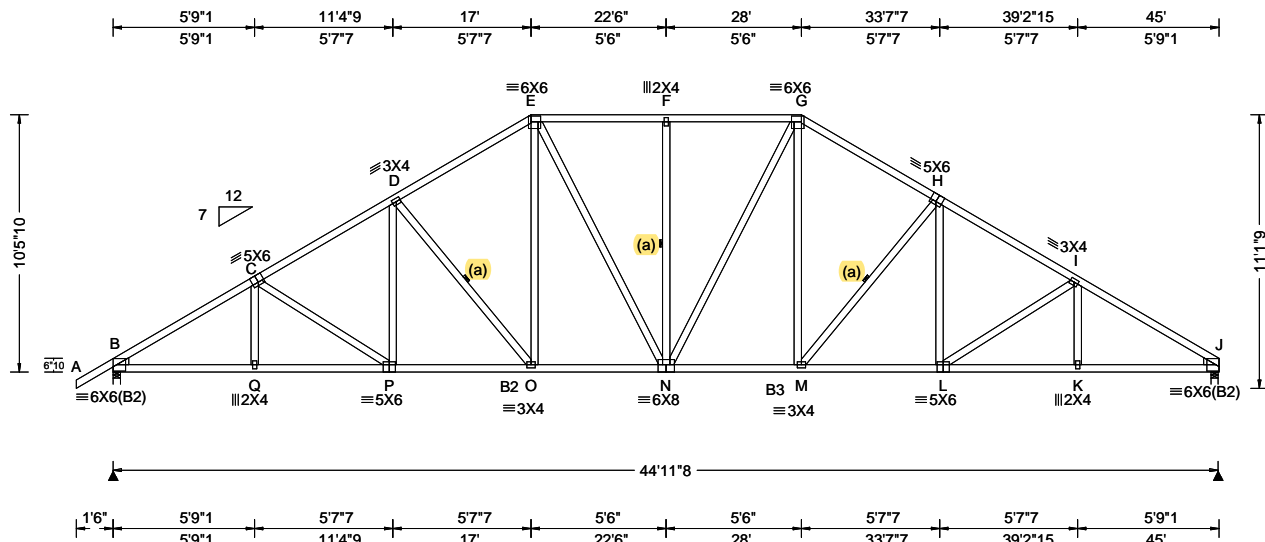
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SEQN: 409950 FROM: CDM	HIPS Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: A03	Cust: R 215 JRRef: 1X3f2150001 T41 DrwNo: 063.21.1320.35123 / YK 03/04/2021
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Loading 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: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.245 F 999 360 VERT(CL): 0.457 F 999 240 HORZ(LL): 0.105 K - - HORZ(TL): 0.196 K - - Creep Factor: 2.0 Max TC CSI: 0.977 Max BC CSI: 0.828 Max Web CSI: 0.293 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 2189 -/- /- /1185 /41 /304 J 2095 -/- /- /1103 /31 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.8 J Brg Width = 3.5 Min Req = 1.7 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 79 -3462 F - G 159 -2415 C - D 119 -3185 G - H 154 -2717 D - E 155 -2724 H - I 119 -3177 E - F 159 -2415 I - J 79 -3432

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2,B3 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

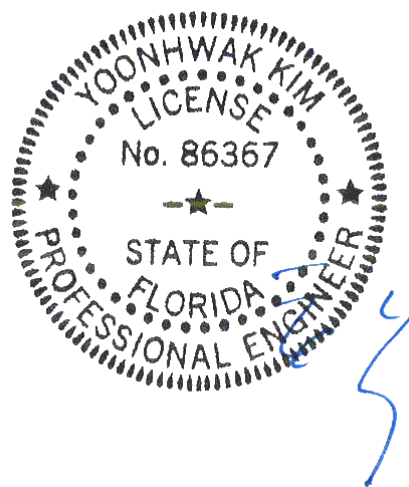
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

The overall height of this truss excluding overhang is 10'-5-10".

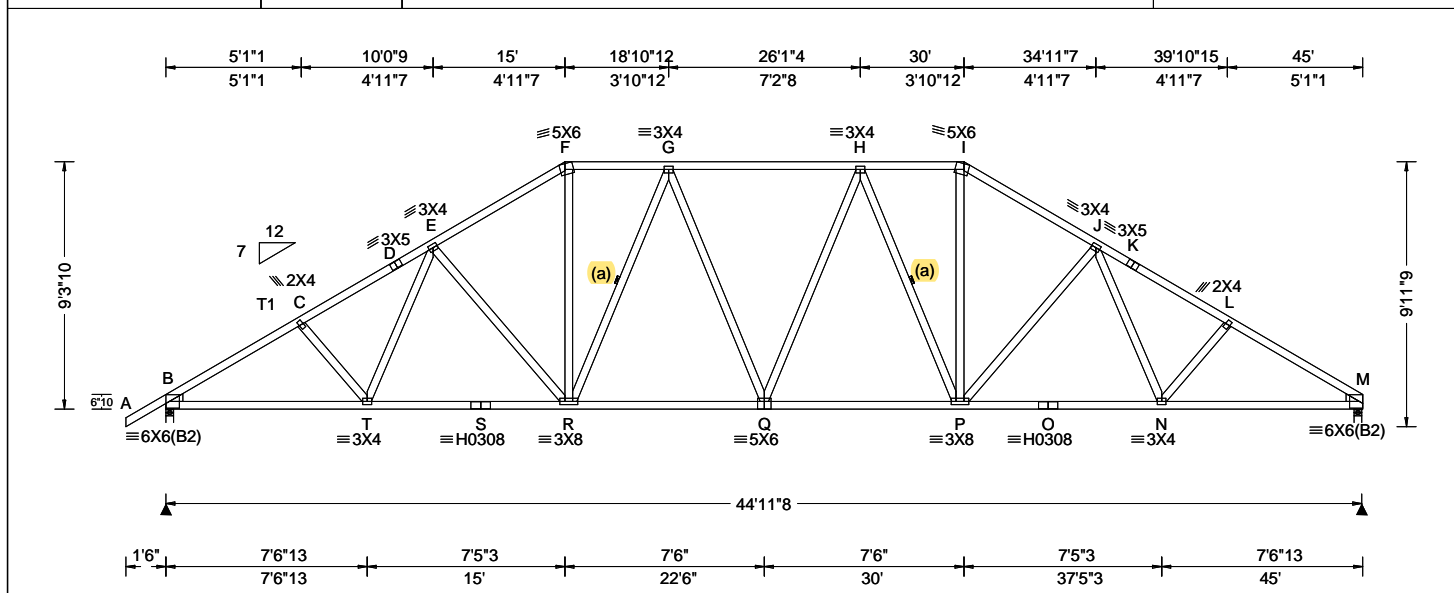


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

SEQN: 409951 FROM: CDM	HIPS Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: A04	Cust: R 215 JRRef: 1X3f2150001 T40 DrwNo: 063.21.1320.36973 / YK 03/04/2021
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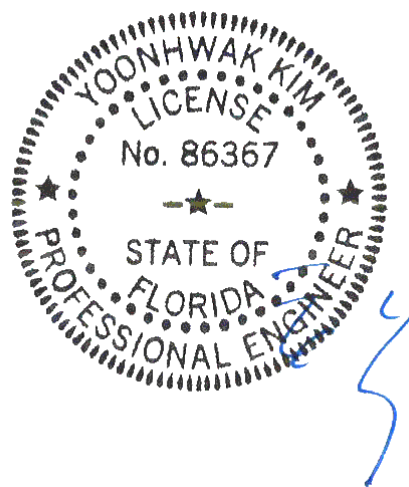


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: 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: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.258 Q 999 360 VERT(CL): 0.473 Q 999 240 HORZ(LL): 0.103 N - - HORZ(TL): 0.189 N - - Creep Factor: 2.0 Max TC CSI: 0.770 Max BC CSI: 0.804 Max Web CSI: 0.603 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2232 -/- /- /1176 /50 /272 M 2138 -/- /- /1094 /38 -/- Non-Gravity Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.8 M Brg Width = 3.5 Min Req = 1.8 Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 97 -3577 H - I 145 -2477 C - D 106 -3399 I - J 146 -2935 D - E 114 -3283 J - K 114 -3258 E - F 146 -2941 K - L 107 -3374 F - G 145 -2481 L - M 97 -3562 G - H 147 -2757

Lumber Top chord: 2x4 SP #2; T1 2x4 SP M-31; Bot chord: 2x4 SP M-31; Webs: 2x4 SP #3; Lt Wedge: 2x4 SP #3; Rt Wedge: 2x4 SP #3;	Bracing (a) Continuous lateral restraint equally spaced on member.	Loading Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.	Wind Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	Additional Notes WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below. The overall height of this truss excluding overhang is 9'-3-10".
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Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
B - T	2973 -139	Q - P	2697	0
T - S	2785 -80	P - O	2762	0
S - R	2785 -80	O - N	2762	0
R - Q	2699 -11	N - M	4522	-42

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
E - R	108 -498	H - P	94	-573
F - R	1204 -23	P - I	1199	-23
R - G	95 -567	P - J	114	-469



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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SEQN: 409952	HIPS	Ply: 1	Job Number: 20-4565	Cust: R 215	JRef: 1X3f2150001	T39
FROM: CDM		Qty: 1	Senn Res.- 52" Ceiling fan in both Garages	DrwNo: 063.21.1320.38630		
			Truss Label: A05	/ YK	03/04/2021	

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): 0.267 F 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.505 F 999 240	B 2150 -/- /- /1165 /349 /239
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.096 K - -	J 2056 -/- /- /1082 /324 -/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.182 K - -	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	B Brg Width = 3.5 Min Req = 1.8
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.975	J Brg Width = 3.5 Min Req = 1.7
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.763	Bearings B & J are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.421	Members not listed have forces less than 375#
	C&C Dist a: 4.50 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 13.00 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11	B - C 556 - 3392 F - G 606 - 3117
	Wind Duration: 1.60			

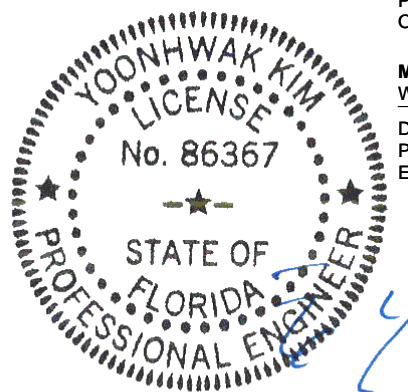
Bracing

Loading

Wind

Additional Notes

The overall height of this truss excluding overhang is 8-1-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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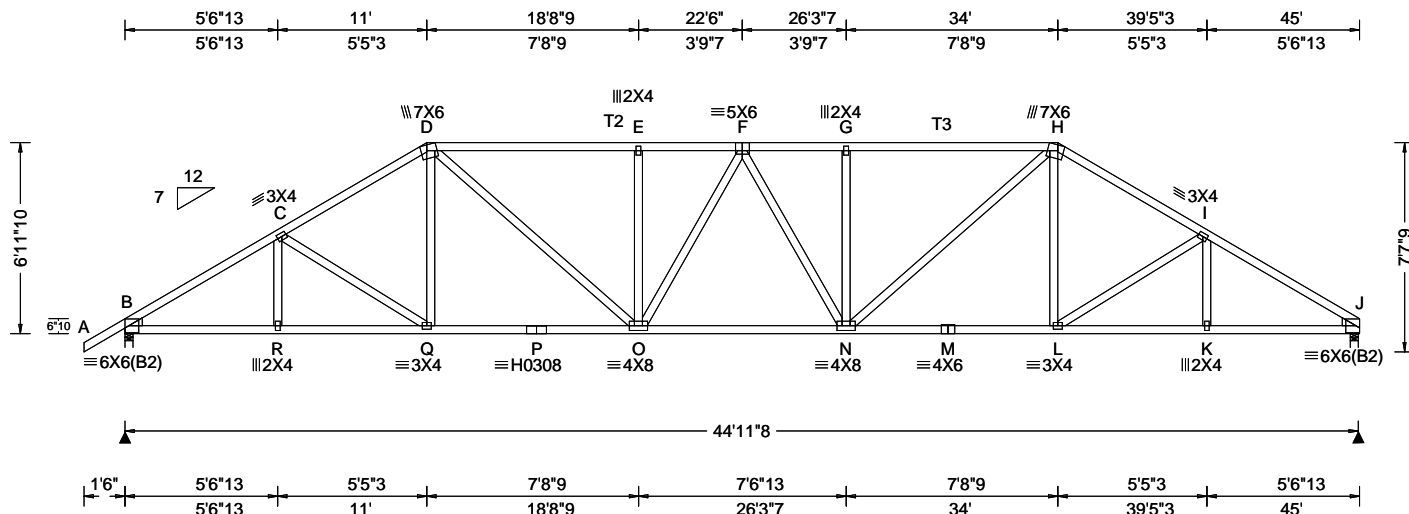
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SEQN: 409953 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: A06	Cust: R 215 JRRef: 1X3f2150001 T38 DrwNo: 063.21.1320.40647 / YK 03/04/2021
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Loading 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: 4.50 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/defl L/# VERT(LL): 0.271 F 999 360 VERT(CL): 0.513 F 999 240 HORZ(LL): 0.095 K - - HORZ(TL): 0.181 K - - Creep Factor: 2.0 Max TC CSI: 0.954 Max BC CSI: 0.783 Max Web CSI: 0.424 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 2151 /- /- /1149 /352 /207 J 2056 /- /- /1067 /327 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.8 J Brg Width = 3.5 Min Req = 1.7 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 556 -3382 F - G 670 -3482 C - D 572 -3141 G - H 670 -3482 D - E 670 -3486 H - I 572 -3133 E - F 670 -3486 I - J 551 -3350

Lumber

Top chord: 2x4 SP #2; T2,T3 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Loading

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

Wind

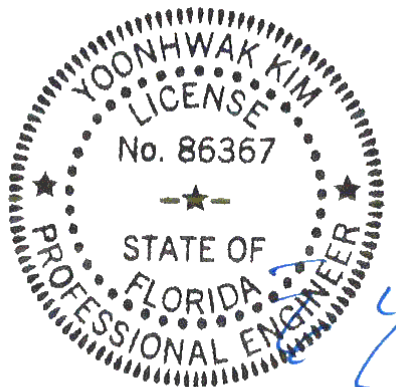
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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The overall height of this truss excluding overhang is 6-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	2812 -407	N - M	2640 -310
R - Q	2813 -408	M - L	2640 -310
Q - P	2654 -312	L - K	2787 -407
P - O	2654 -312	K - J	4246 -586
O - N	3512 -456		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - Q	391 -2	G - N	184 -434
D - O	1099 -176	N - H	1113 -177
E - O	184 -430	H - L	389 -4

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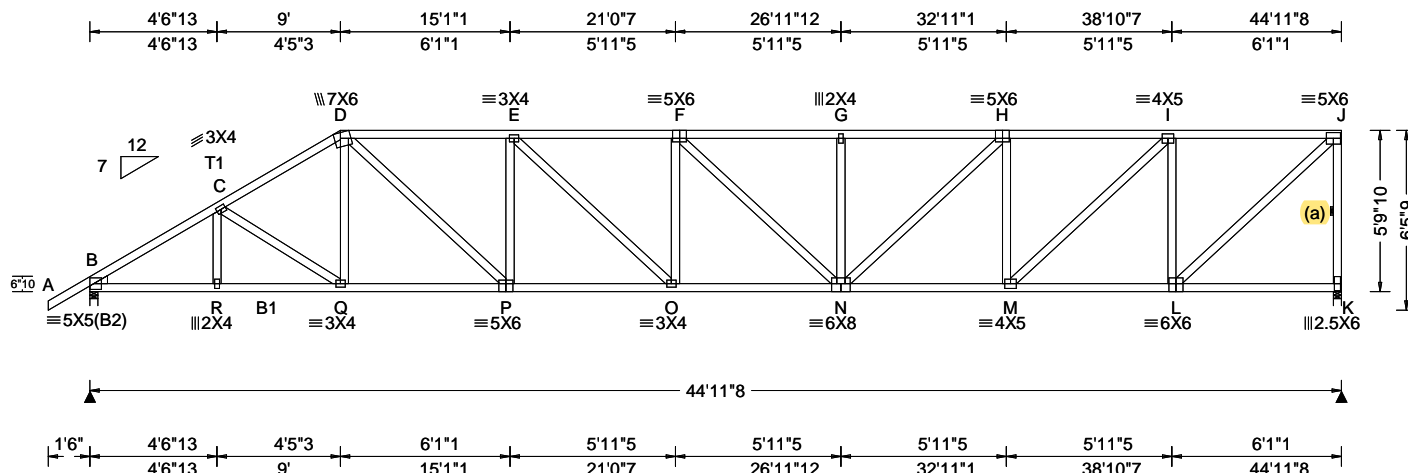
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6750 Forum Drive
Suite 305
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SEQN: 409954 FROM: CDM	HIPM Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: A07	Cust: R 215 JRRef: 1X3f2150001 T1 DrwNo: 063.21.1320.42530 / YK 03/04/2021
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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: 4.50 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/defl L/# VERT(LL): 0.305 F 999 360 VERT(CL): 0.631 F 853 240 HORZ(LL): 0.084 D - - HORZ(TL): 0.173 D - - Creep Factor: 2.0 Max TC CSI: 0.669 Max BC CSI: 0.914 Max Web CSI: 0.929 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1976 - / - / 1147 / 346 / 209 K 1865 - / - / 939 / 355 / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.6 K Brg Width = 3.5 Min Req = 2.2 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 527 - 3051 F - G 714 - 3685 C - D 561 - 2898 G - H 714 - 3685 D - E 681 - 3393 H - I 571 - 2984 E - F 744 - 3803 I - J 340 - 1789

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

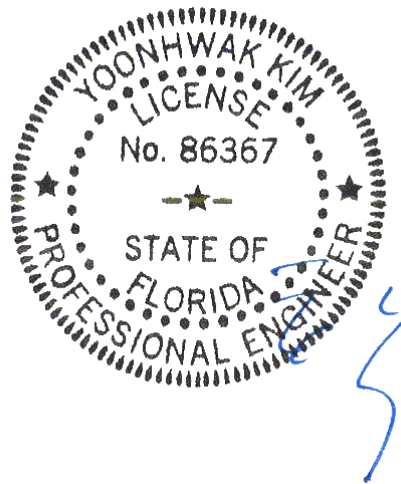
Wind loads based on MWFRS with additional C&C member design.

Right 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 5-9-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	2528 - 576	O - N	3815 - 750
R - Q	2530 - 578	N - M	3035 - 585
Q - P	2461 - 520	M - L	1869 - 361
P - O	3432 - 692		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - P	1269 - 218	M - I	1556 - 294
P - E	211 - 752	I - L	383 - 1528
E - O	517 - 103	L - J	2439 - 464
N - H	896 - 178	J - K	379 - 1816
H - M	264 - 970		

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Lumber	Additional Notes	C - D	1210 - 4874	H - I	1350 - 5422
Top chord: 2x6 SP 2400f-2.0E;	The overall height of this truss excluding overhang is 4-7-10.	D - E	1451 - 5838	I - J	1038 - 4172
Bot chord: 2x6 SP 2400f-2.0E;		E - F	1559 - 6269	J - K	594 - 2390
Webs: 2x4 SP #3; W16 2x4 SP #2;		F - G	1529 - 6141		

Special Loads				Maximum Web Forces Per Ply (lbs)							
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)				Webs		Tens.Comp.		Webs		Tens. Comp.	
TC: From	63 plf at	-1.50 to	63 plf at	7.00		C - S	2020	-510	O - I	1588	-389
TC: From	32 plf at	7.00 to	32 plf at	44.96		S - D	369	-1143	I - N	419	-1387
BC: From	5 plf at	-1.50 to	5 plf at	0.00		D - R	1218	-297	N - J	2267	-556
BC: From	20 plf at	0.00 to	20 plf at	7.15		R - E	243	-667	J - M	572	-1924
BC: From	10 plf at	7.15 to	10 plf at	44.96		E - Q	529	-125	M - K	3195	-794
TC:	291 lb Conc. Load at	7.03				P - H	888	-214	K - L	623	-2307
TC:	197 lb Conc. Load at	9.06, 11.06, 13.06, 15.06				H - O	304	-908			
17.06, 19.06, 21.06, 23.06, 25.06, 27.06, 29.06, 31.06											
33.06, 35.06, 37.06, 39.06, 41.06, 43.06, 44.56											
BC:	480 lb Conc. Load at	7.03									
BC:	133 lb Conc. Load at	9.06, 11.06, 13.06, 15.06									
17.06, 19.06, 21.06, 23.06, 25.06, 27.06, 29.06, 31.06											
33.06, 35.06, 37.06, 39.06, 41.06, 43.06, 44.56											


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.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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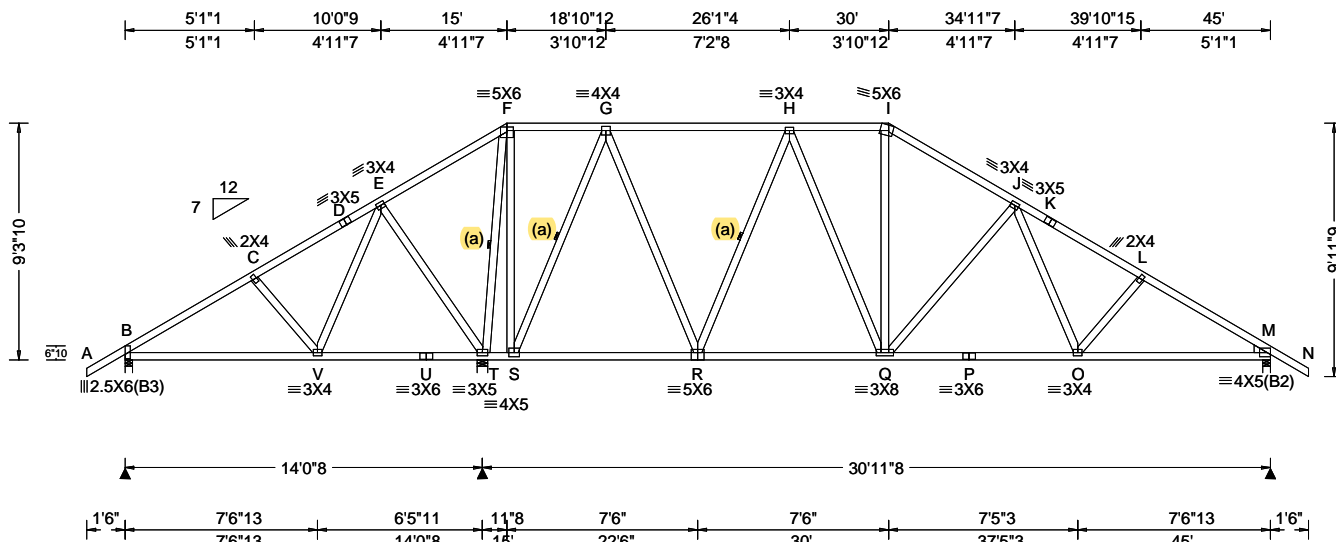
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SEQN: 409955 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B01	Cust: R 215 JRRef: 1X3f2150001 T13 DrwNo: 063.21.1320.48797 / YK 03/04/2021
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Loading 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: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.102 J 999 360 VERT(CL): 0.191 J 999 240 HORZ(LL): 0.038 O - - HORZ(TL): 0.069 O - - Creep Factor: 2.0 Max TC CSI: 0.681 Max BC CSI: 0.903 Max Web CSI: 0.895 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 454 -/- /- /288 /10 /288 T 2717 -/- /- /1294 /58 -/- M 1415 -/- /- /850 /60 -/- Non-Gravity B Brg Width = 3.5 Min Req = 1.5 T Brg Width = 4.9 Min Req = 2.8 M Brg Width = 3.5 Min Req = 1.7 Wind reactions based on MWFRS Members not listed have forces less than 375# Bearings B, T, & M are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Purlins

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

Wind

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

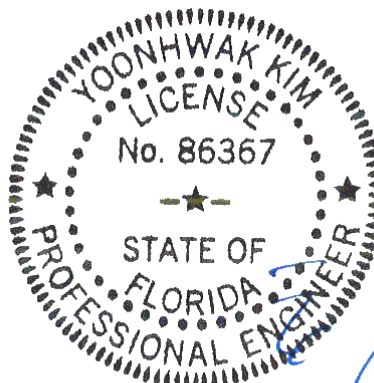
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 9'-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
R - Q	993 0	P - O	1455 0
Q - P	1455 0	O - M	1713 -29

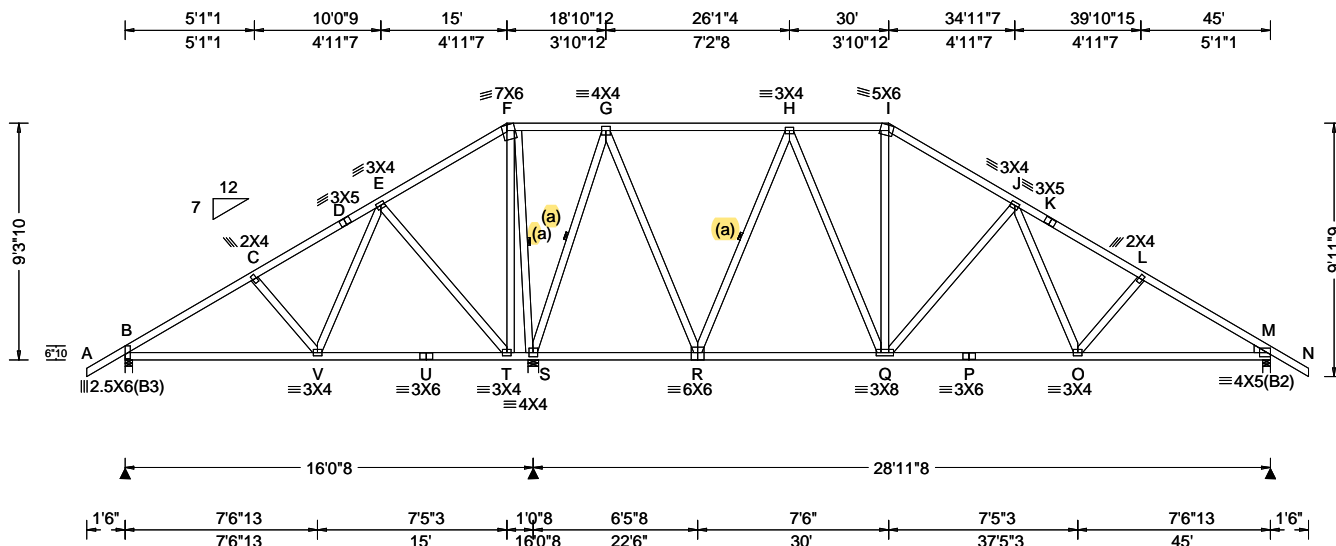
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
V - E	438 0	G - R	1097 0
E - T	112 -579	R - H	74 -744
T - F	0 -2055	Q - I	417 -11
F - S	1509 -27	Q - J	106 -544
S - G	84 -1539	J - O	375 0

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ALPINE
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6750 Forum Drive
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Orlando FL, 32821

SEQN: 409956 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B02	Cust: R 215 JRRef: 1X3f2150001 T12 DrwNo: 063.21.1320.50967 / YK 03/04/2021
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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: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.075 O 999 360 VERT(CL): 0.143 O 999 240 HORZ(LL): 0.025 O - - HORZ(TL): 0.047 O - - Creep Factor: 2.0 Max TC CSI: 0.758 Max BC CSI: 0.824 Max Web CSI: 0.792 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 486 -/- /- /310 /19 /288 S 2899 -/- /- /1348 /48 -/ M 1236 -/- /- /770 /59 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 S Brg Width = 4.9 Min Req = 3.0 M Brg Width = 3.5 Min Req = 1.5 Bearings B, S, & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Purlins

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

Wind

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

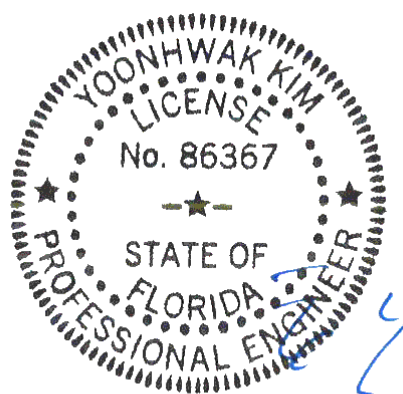
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 9-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
T - S	161 -663	P - O	1162 0
R - Q	616 0	O - M	1435 -28
Q - P	1162 0		

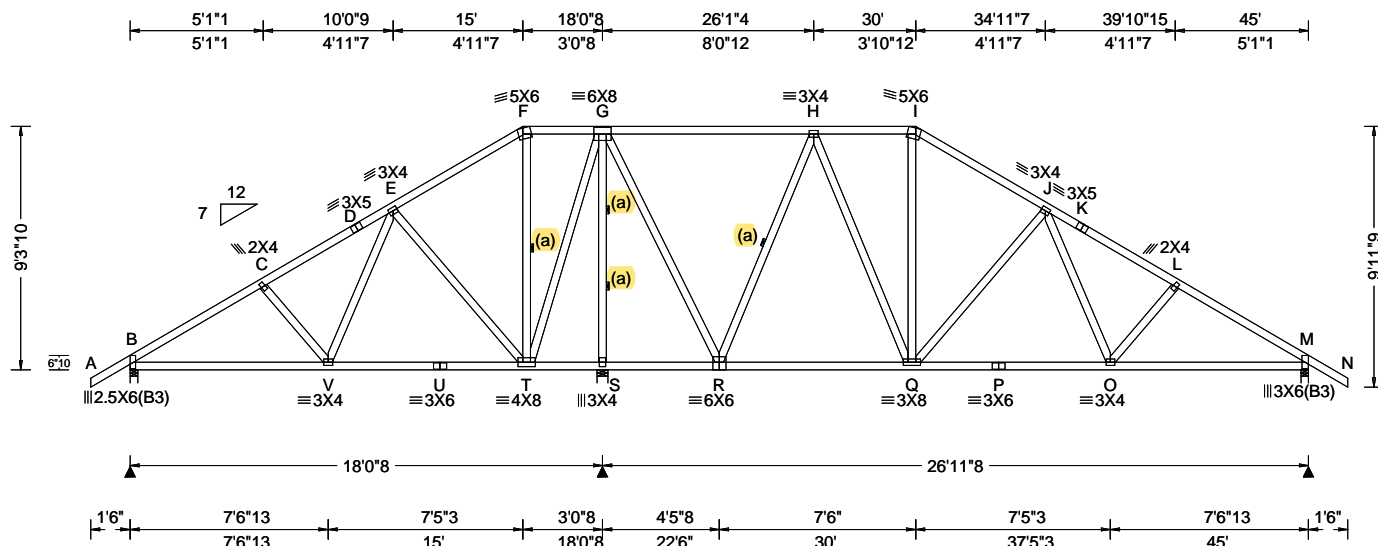
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
V - E	489 0	G - R	1256 0
E - T	111 -614	R - H	75 -954
F - T	528 -35	H - Q	545 0
F - S	50 -1096	Q - J	106 -551
S - G	86 -1662	J - O	386 0

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Suite 305
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SEQN: 409957 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B03	Cust: R 215 JRRef: 1X3f2150001 T11 DrwNo: 063.21.1320.53323 / YK 03/04/2021
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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: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.073 J 999 360 VERT(CL): 0.136 J 999 240 HORZ(LL): 0.028 O - - HORZ(TL): 0.052 O - - Creep Factor: 2.0 Max TC CSI: 0.803 Max BC CSI: 0.827 Max Web CSI: 0.873 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 689 -/- /- /435 /26 /288 S 2656 -/- /- /1240 /39 -/ M 1180 -/- /- /746 /57 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 S Brg Width = 4.9 Min Req = 2.8 M Brg Width = 3.5 Min Req = 1.5 Bearings B, S, & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Purlins

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

Wind

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

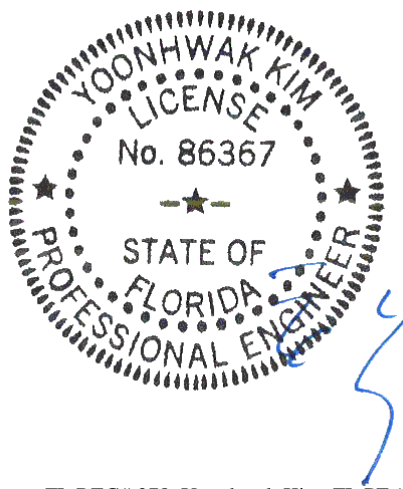
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 9-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - V	597 -237	Q - P	1071 0
T - S	137 -549	P - O	1071 0
S - R	137 -549	O - M	1348 -25
R - Q	503 0		

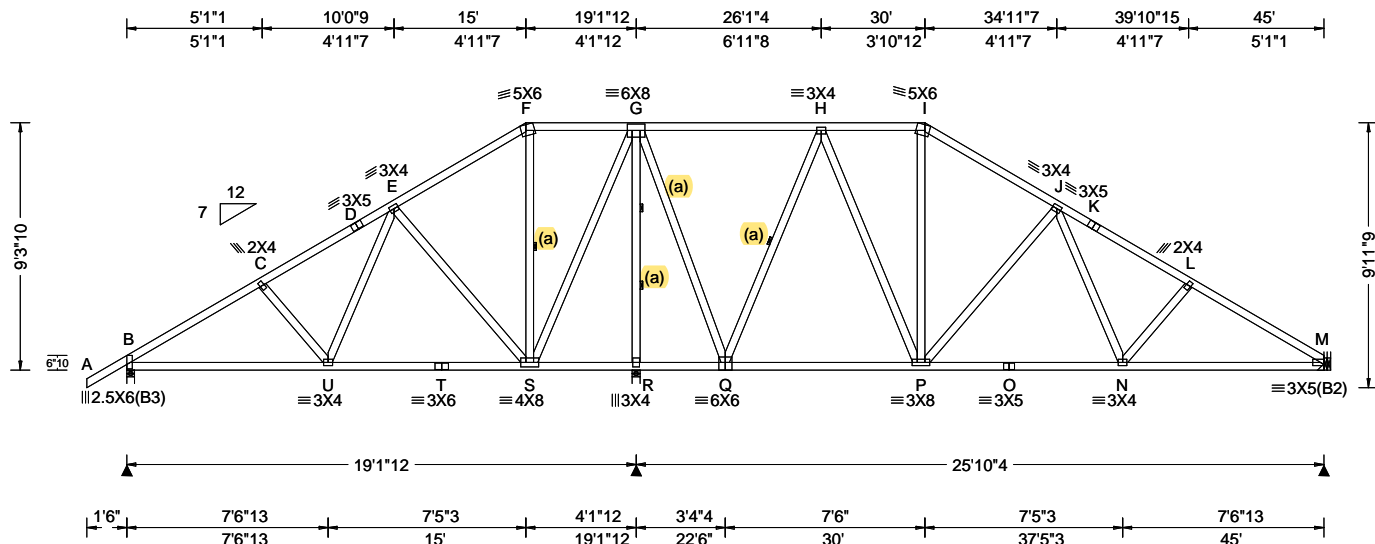
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
V - E	468 0	R - H	82 -1045
E - T	105 -599	H - Q	589 0
T - G	943 -46	Q - J	106 -554
G - S	58 -2541	J - O	388 0
G - R	1340 -13		

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ALPINE
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409958 FROM: CDM	COMN Ply: 1 Qty: 6	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B04	Cust: R 215 JRRef: 1X3f2150001 T20 DrwNo: 063.21.1320.56070 / YK 03/04/2021
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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: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.065 J 999 360 VERT(CL): 0.122 N 999 240 HORZ(LL): 0.025 N - - HORZ(TL): 0.047 N - - Creep Factor: 2.0 Max TC CSI: 0.595 Max BC CSI: 0.814 Max Web CSI: 0.868 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 755 -/- /- /475 /25 /272 R 2623 -/- /- /1225 /43 -/- M 1021 -/- /- /630 /44 -/- Non-Gravity B Brg Width = 3.5 Min Req = 1.5 R Brg Width = 3.5 Min Req = 2.7 M Brg Width = - Min Req = - Wind reactions based on MWFRS Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Purlins

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

Wind

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

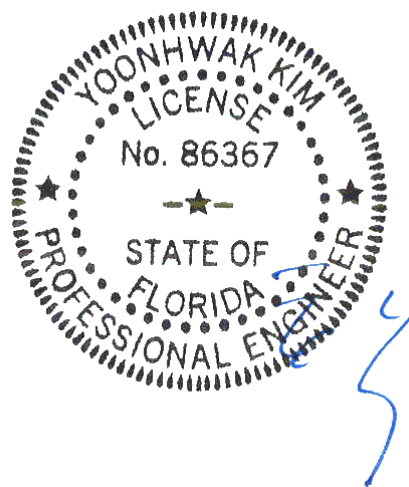
Wind loading based on both gable and hip roof types.

Additional Notes

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Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 9'-3"-10'.

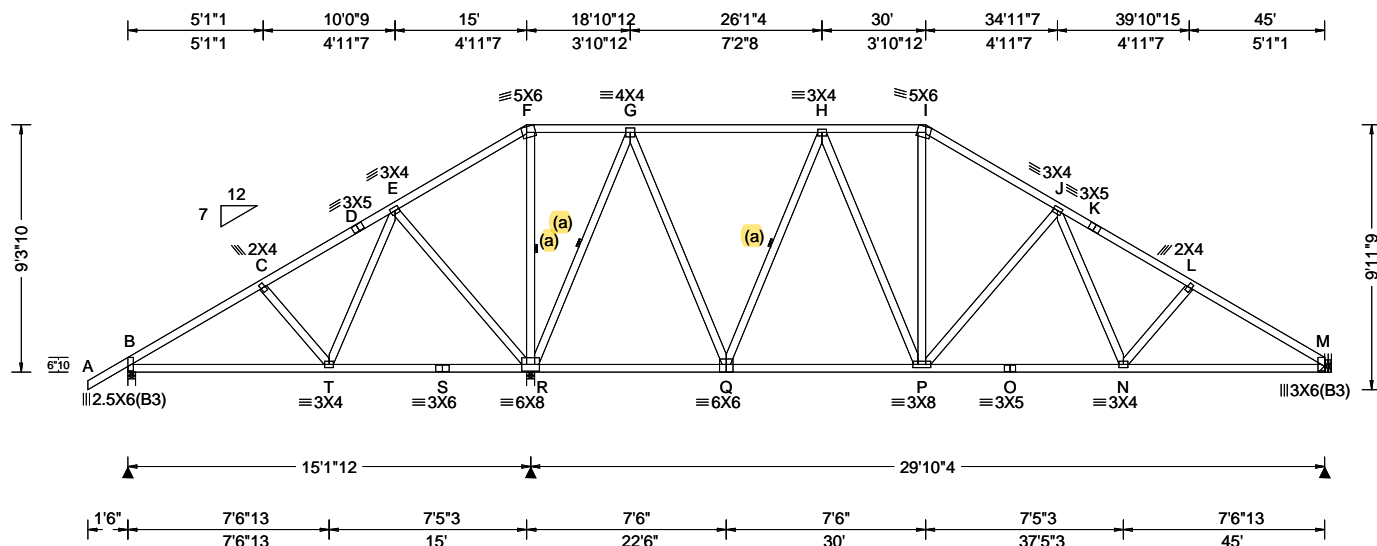


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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AN ITW COMPANY
6750 Forum Drive
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SEQN: 409959 FROM: CDM	HIPS Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B05	Cust: R 215 JRRef: 1X3f2150001 T8 DrwNo: 063.21.1320.58227 / YK 03/04/2021
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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: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.079 J 999 360 VERT(CL): 0.150 J 999 240 HORZ(LL): 0.026 N - - HORZ(TL): 0.047 N - - Creep Factor: 2.0 Max TC CSI: 0.747 Max BC CSI: 0.824 Max Web CSI: 0.842 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 424 /-2 /- /274 /21 /272 R 2931 /- /- /1363 /60 /- M 1184 /- /- /703 /47 /- Non-Gravity B Brg Width = 3.5 Min Req = 1.5 R Brg Width = 3.5 Min Req = 3.1 M Brg Width = - Min Req = - Wind reactions based on MWFRS Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Purlins

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

Wind

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

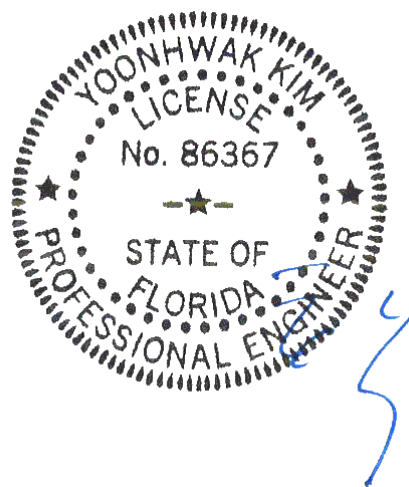
Wind loading based on both gable and hip roof types.

Additional Notes

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Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 9-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

Maximum Bot Chord Forces Per Ply (lbs)

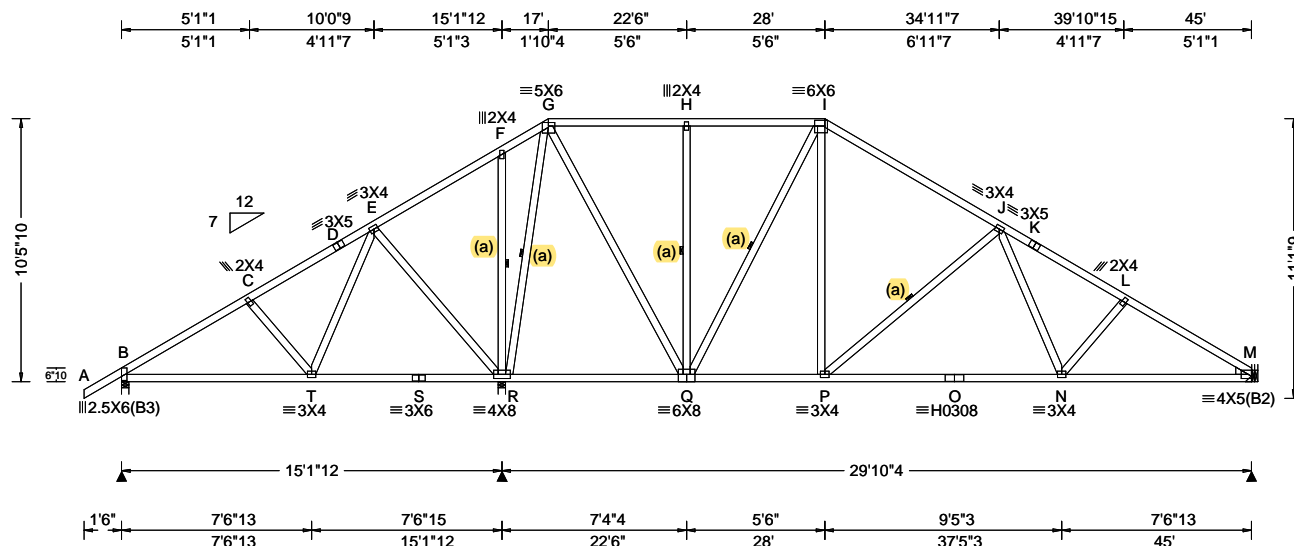
Chords	Tens.Comp.	Chords	Tens. Comp.
T - S	167 -438	P - O	1258 0
S - R	167 -438	O - N	1258 0
Q - P	732 0	N - M	1544 -46

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
T - E	478 0	Q - H	77 -893
E - R	112 -608	H - P	483 -1
F - R	27 -637	P - J	107 -557
R - G	88 -1684	J - N	395 0
G - Q	1226 0		

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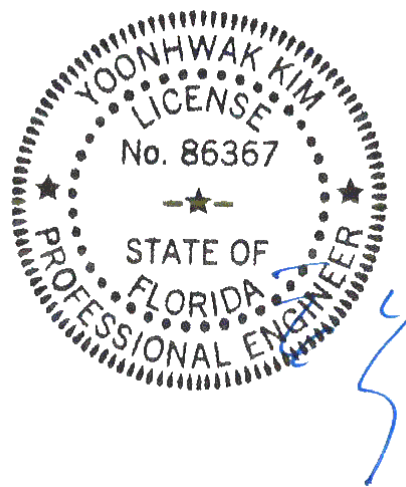


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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/defl L/# VERT(LL): 0.091 J 999 360 VERT(CL): 0.171 J 999 240 HORZ(LL): 0.031 N - - HORZ(TL): 0.058 N - - Creep Factor: 2.0 Max TC CSI: 0.576 Max BC CSI: 0.901 Max Web CSI: 0.983 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 467 -/- /- /293 /4 /304 R 2806 -/- /- /1347 /55 /- M 1231 -/- /- /733 /46 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 R Brg Width = 3.5 Min Req = 2.9 M Brg Width = - Min Req = - Bearings B & R 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	Loading	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Rt Wedge: 2x4 SP #3;	Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.	Chords Tens.Comp. Chords Tens. Comp. E - F 793 -12 I - J 136 -1078 F - G 712 0 J - K 118 -1684 G - H 134 -480 K - L 110 -1799 H - I 134 -480 L - M 103 -1986

Bracing	Wind	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	Chords Tens.Comp. Chords Tens. Comp. Q - P 831 0 O - N 1342 0 P - O 1342 0 N - M 1626 -40

Hangers / Ties	Maximum Bot Chord Forces Per Ply (lbs)
Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information. Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage. Bearing at location x=44'9" uses the following support conditions: 44'9" Bearing M (44'9", 8") HUS26 Supporting Member: (2)2x6 SP 2400f-2.0E (14) 0.148"x3" nails into supporting member, (4) 0.148"x3" nails into supported member.	Chords Tens.Comp. Chords Tens. Comp. T - E 469 0 Q - I 37 -783 E - R 105 -572 I - P 744 -3 R - G 13 -1795 P - J 125 -676 G - Q 1444 -52 J - N 441 0 H - Q 80 -377



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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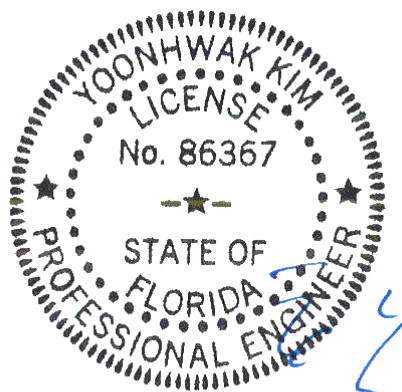
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 409960	HIPS	Ply: 1	Job Number: 20-4565	Cust: R 215 JRef: 1X3f2150001 T7
FROM: CDM		Qty: 1	Senn Res.- 52" Ceiling fan in both Garages	DrwNo: 063.21.1321.00987
Page 2 of 2			Truss Label: B06	/ YK 03/04/2021

Additional Notes

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

The overall height of this truss excluding overhang is 10-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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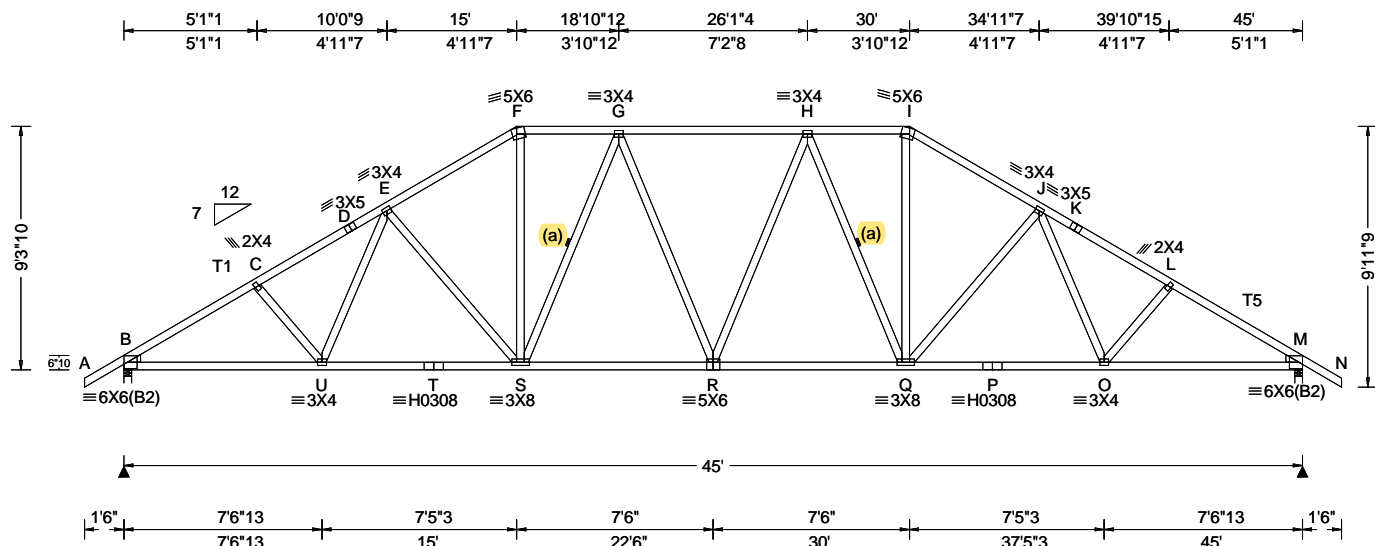
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409961 FROM: CDM	HIPS Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B07	Cust: R 215 JRef: 1X3f2150001 T6 DrwNo: 063.21.1321.03487 / YK 03/04/2021
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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: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.247 R 999 360 VERT(CL): 0.451 R 999 240 HORZ(LL): 0.108 O - - HORZ(TL): 0.197 O - - Creep Factor: 2.0 Max TC CSI: 0.771 Max BC CSI: 0.623 Max Web CSI: 0.603 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2236 -/- /- /1179 /49 /288 M 2236 -/- /- /1179 /49 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.9 M Brg Width = 3.5 Min Req = 1.9 Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 87 -3585 H - I 125 -2488 C - D 94 -3406 I - J 118 -2949 D - E 101 -3290 J - K 105 -3290 E - F 117 -2949 K - L 97 -3406 F - G 124 -2488 L - M 91 -3585 G - H 91 -2767

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

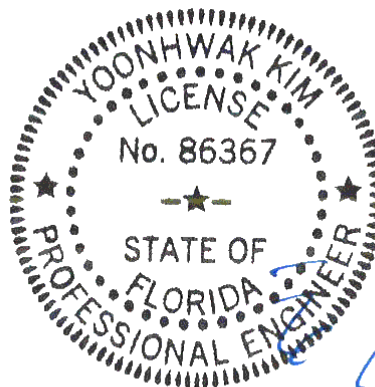
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

The overall height of this truss excluding overhang is 9'-3-10".



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - U	2979 -111	R - Q	2707 0
U - T	2792 -51	Q - P	2791 0
T - S	2792 -51	P - O	2791 0
S - R	2707 0	O - M	2979 -13

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
E - S	108 -498	H - Q	95 -572
F - S	1208 -2	Q - I	1208 -2
S - G	95 -572	Q - J	111 -498

FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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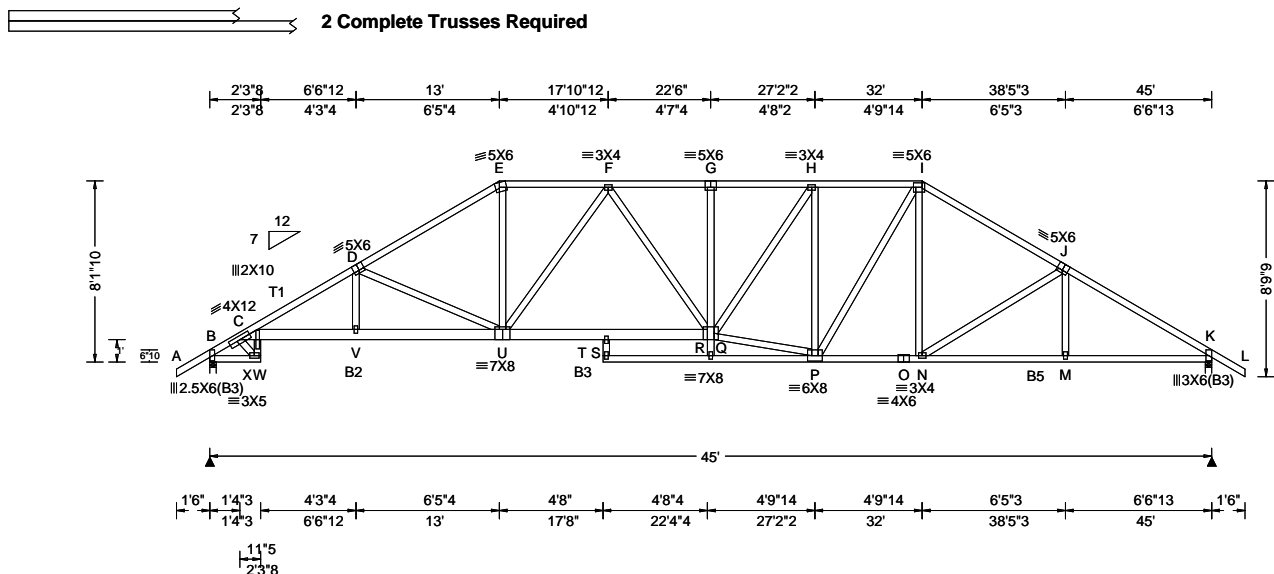
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410021 FROM: CDM	HIPS Ply: 2 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B08	Cust: R 215 JRRef: 1X3f2150001 T2 DrwNo: 063.21.1321.05593 / YK 03/04/2021
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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: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.185 T 999 360 VERT(CL): 0.359 T 999 240 HORZ(LL): 0.103 M - - HORZ(TL): 0.200 M - - Creep Factor: 2.0 Max TC CSI: 0.453 Max BC CSI: 0.532 Max Web CSI: 0.540 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2091 - / - / /1167 /105 /256 K 2091 - / - / /1167 /105 - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 K Brg Width = 3.5 Min Req = 1.5 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 73 - 1329 G - H 132 - 1728 C - D 131 - 2269 H - I 117 - 1394 D - E 110 - 1667 I - J 107 - 1449 E - F 110 - 1405 J - K 91 - 1647 F - G 132 - 1732

Lumber
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2,B3 2x6 SP 2400f-2.0E;
B5 2x4 SP M-31;
Webs: 2x4 SP #3;

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

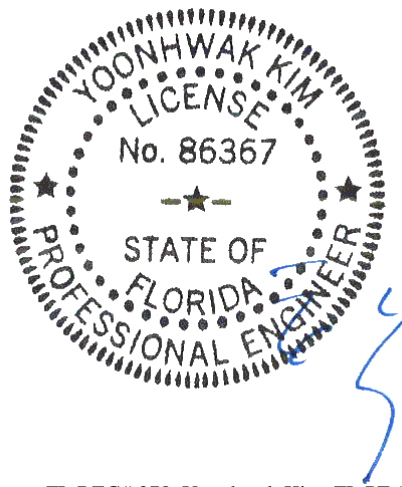
Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Plating Notes
All plates are 2X4 except as noted.

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

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

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 8'-1-10.

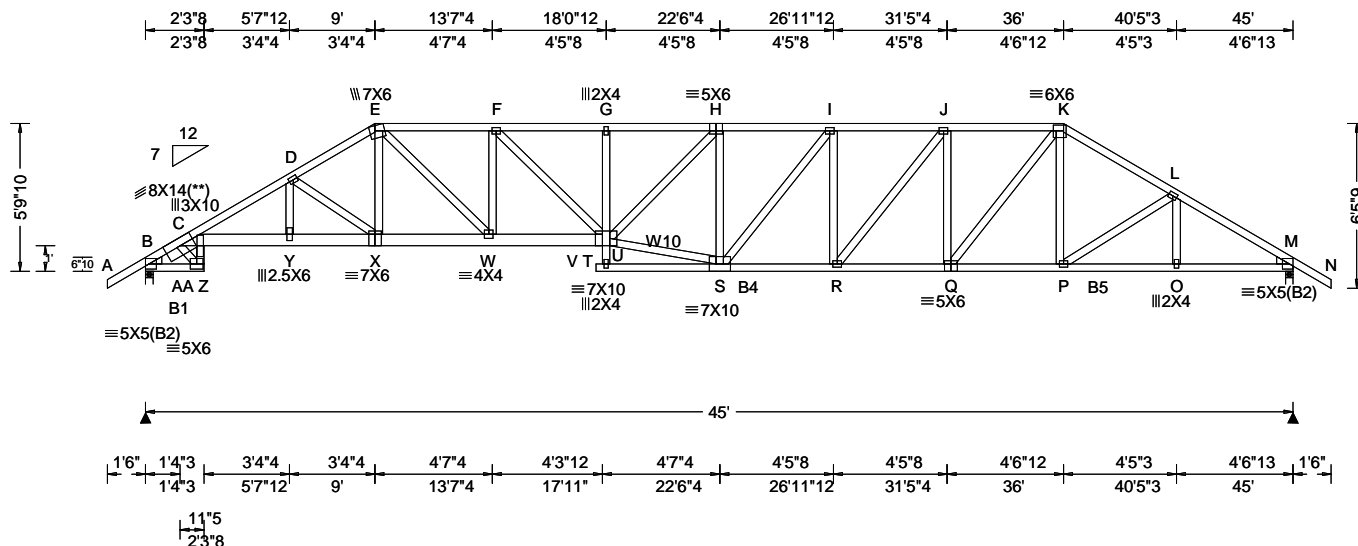


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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ALPINE
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6750 Forum Drive
Suite 305
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SEQN: 409964 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B10	Cust: R 215 JRRef: 1X3f2150001 T4 DrwNo: 063.21.1321.17910 / YK 03/04/2021
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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: > 2h C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.361 G 999 360 VERT(CL): 0.741 G 726 240 HORZ(LL): 0.177 O - - HORZ(TL): 0.364 O - - Creep Factor: 2.0 Max TC CSI: 0.562 Max BC CSI: 0.971 Max Web CSI: 0.891 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1973 -/- /1133 /128 /191 M 1973 -/- /1133 /128 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 2.3 M Brg Width = 3.5 Min Req = 1.6 Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 180 -2485 H - I 382 -3801 C - D 318 -4493 I - J 389 -3635 D - E 293 -3561 J - K 340 -3174 E - F 386 -3960 K - L 264 -2888 F - G 464 -4677 L - M 213 -3050 G - H 463 -4664

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E; B1 2x4 SP #2; B4,
B5 2x4 SP M-31;
Webs: 2x4 SP #3; W10 2x4 SP #2;
Lt Wedge: 2x4 SP #3; Rt Wedge: 2x4 SP #3;

Plating Notes

All plates are 3X4 except as noted.

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

Wind

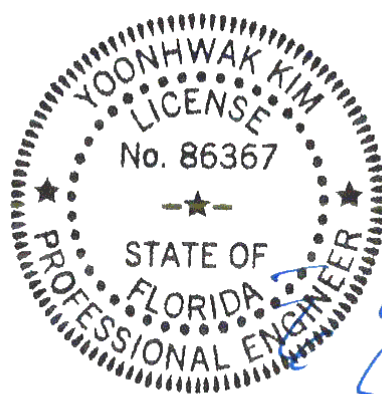
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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The overall height of this truss excluding overhang is 5-9-10.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Z	1856 -169	S - R	3660 -299
C - AA	3921 -263	R - Q	3217 -254
AA - Y	3870 -256	Q - P	2446 -142
Y - X	3848 -256	P - O	2529 -122
X - W	3015 -168	O - M	2528 -121
W - T	4025 -249		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - Z	265 -2919	T - H	1175 -109
AA - Z	1969 -166	T - S	3856 -291
Y - D	736 -12	H - S	162 -1111
D - X	111 -1046	I - R	102 -464
E - X	605 -22	R - J	693 -72
E - W	1331 -179	J - Q	174 -830
W - F	188 -952	Q - K	1161 -165
F - T	926 -97		

FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

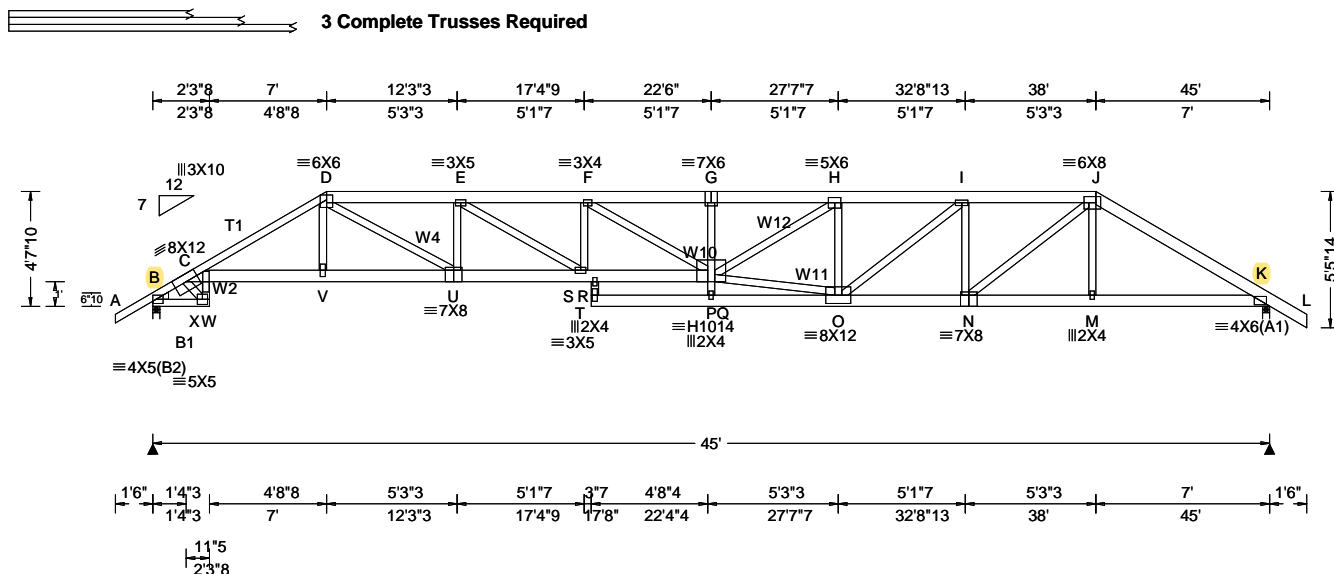
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ALPINE
AN ITW COMPANY
6750 Forum Drive
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Orlando FL, 32821

SEQN: 410003 FROM:	HIPS Ply: 3 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: B11	Cust: R 215 JRRef: 1X3f2150001 T58 DrwNo: 063.21.1321.35127 / YK 03/04/2021
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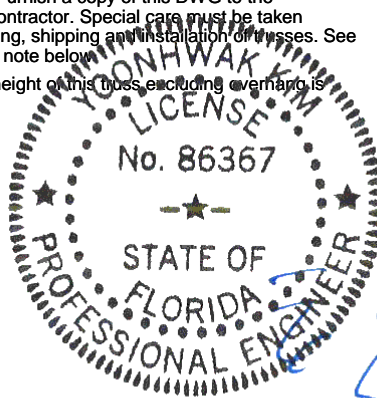
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.50 ft Loc. from endwall: not in 13.00 ft 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): 0.438 G 999 360 VERT(CL): 0.883 G 608 240 HORZ(LL): 0.181 M - - HORZ(TL): 0.365 M - - Creep Factor: 2.0 Max TC CSI: 0.343 Max BC CSI: 0.927 Max Web CSI: 0.657 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 5139 -/- /- /- /1225 -/ K 5209 -/- /- /- /1231 -/ Non-Gravity Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 K Brg Width = 3.5 Min Req = 1.5 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 548 -2283 G - H 1641 -6881 C - D 1000 -4166 H - I 1152 -4837 D - E 1238 -5168 I - J 948 -3985 E - F 1499 -6263 J - K 741 -3102 F - G 1655 -6938

Lumber
Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E; B1 2x4 SP M-31;
Webs: 2x4 SP #3; W2, W4, W12 2x4 SP #2; W10, W11 2x4 SP M-31;
Lt Wedge: 2x4 SP #3;

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

Special Loads
-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -1.50 to 63 plf at 46.50
BC: From 5 plf at -1.50 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 45.00
BC: From 5 plf at 45.00 to 5 plf at 46.50
TC: 214 lb Conc. Load at 7.03
TC: 196 lb Conc. Load at 9.06, 11.06, 13.06, 15.06, 17.06
TC: 197 lb Conc. Load at 19.06, 21.06, 22.50, 23.94, 25.94, 27.94, 29.94, 31.94, 33.94, 35.94
TC: 291 lb Conc. Load at 37.97
BC: 519 lb Conc. Load at 7.03
BC: 123 lb Conc. Load at 9.06, 11.06, 13.06, 15.06, 17.06
BC: 133 lb Conc. Load at 19.06, 21.06, 22.50, 23.94, 25.94, 27.94, 29.94, 31.94, 33.94, 35.94
BC: 480 lb Conc. Load at 37.97

Plating Notes
All plates are 2.5X6 except as noted.
Wind
Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.
Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss including overhang is 47'-10".



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - W 1721	-414	T - R 6325	-1519
C - X 3657	-875	R - P 6260	-1501
X - V 3623	-866	O - N 4050	-968
V - U 3588	-860	N - M 2645	-626
U - T 5254	-1264	M - K 2638	-627

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - W 648	-2698	F - P 796	-159
X - W 1804	-428	P - H 2332	-556
V - D 763	-134	P - O 4788	-1139
D - U 1869	-446	H - O 428	-1513
U - E 289	-941	O - I 1028	-240
E - T 1225	-282	I - N 297	-943
T - F 219	-681	N - J 1726	-414

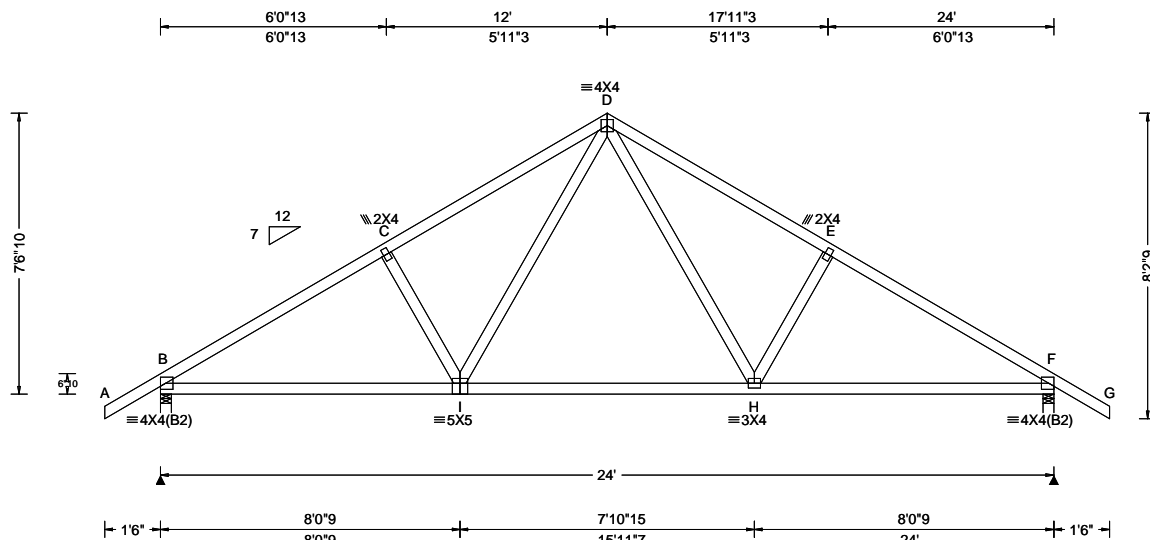
Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

SEQN: 409965 FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: C01	Cust: R 215 JRRef: 1X3f2150001 T30 DrwNo: 063.21.1321.37340 / YK 03/04/2021
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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): 0.074 H 999 360 VERT(CL): 0.141 H 999 240 HORZ(LL): 0.037 H - - HORZ(TL): 0.070 H - - Creep Factor: 2.0 Max TC CSI: 0.575 Max BC CSI: 0.741 Max Web CSI: 0.214 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1171 - / - / 658 / 189 / 224 F 1171 - / - / 658 / 189 - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 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 280 - 1639 D - E 319 - 1459 C - D 320 - 1458 E - F 279 - 1640

Lumber

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

Loading

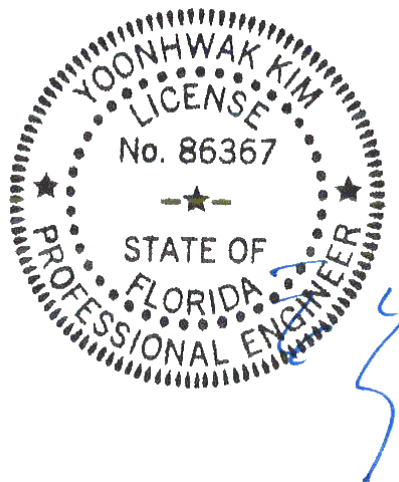
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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 7'-6-10.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - I	1324 - 142	H - F	1325 - 142
I - H	912 - 5		

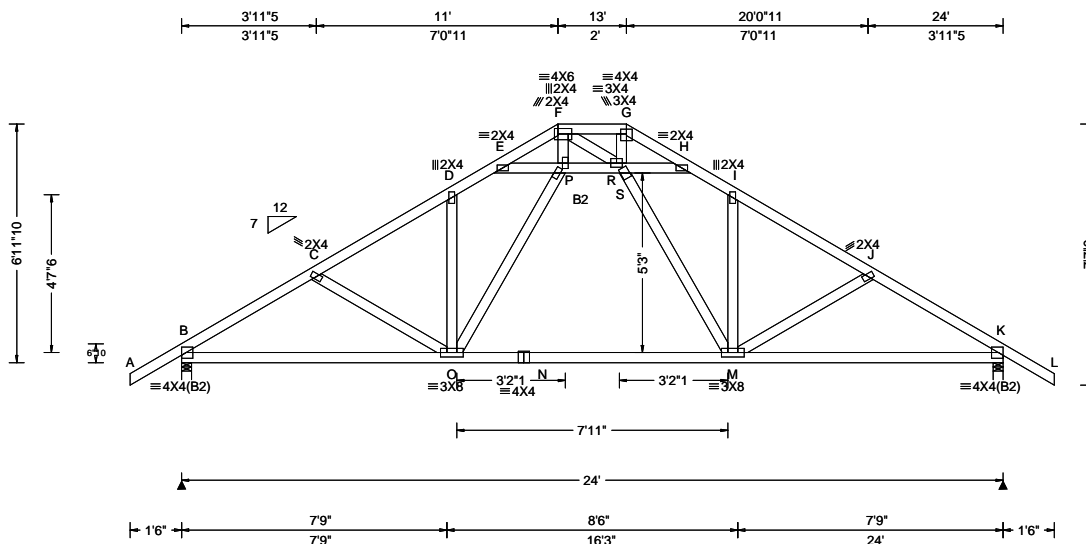
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
I - D	559 - 95	D - H	562 - 94

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ALPINE
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6750 Forum Drive
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SEQN: 409966 FROM: CDM	HIP_	Ply: 1 Qty: 4	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: C02	Cust: R 215 JRef: 1X3f2150001 T29 DrwNo: 063.21.1321.39177 / YK 03/04/2021
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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): 0.088 I 999 360 VERT(CL): 0.168 I 999 240 HORZ(LL): 0.039 M - - HORZ(TL): 0.074 M - - Creep Factor: 2.0 Max TC CSI: 0.861 Max BC CSI: 0.474 Max Web CSI: 0.288 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1331 - / - / - / 659 / 190 / 209 K 1331 - / - / - / 659 / 190 / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 K Brg Width = 3.5 Min Req = 1.5 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 297 - 1978 G - H 245 - 1372 C - D 260 - 1791 H - I 320 - 1744 D - E 320 - 1741 I - J 260 - 1789 E - F 241 - 1378 J - K 297 - 1976 F - G 243 - 1296

Lumber

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

Loading

BC attic loading: LL = 20.00 psf; DL = 5.00 psf; from 8-0-8 to 15-11-8.

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

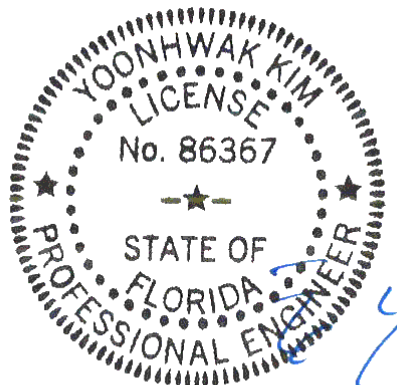
Wind

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 6-11-10.

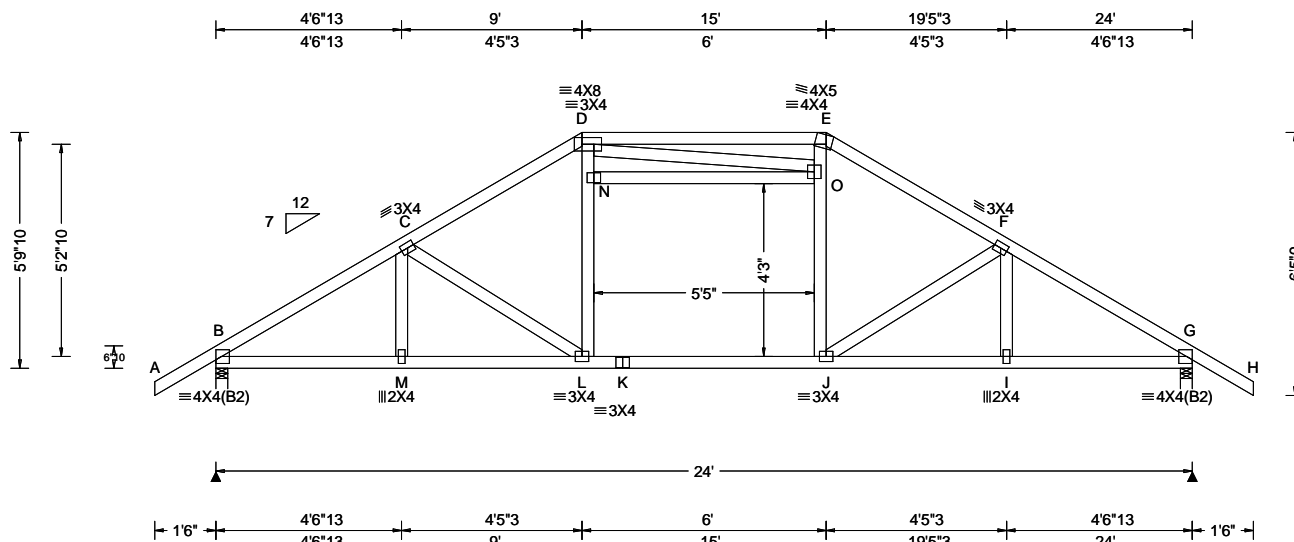


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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6750 Forum Drive
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Orlando FL, 32821

SEQN: 409967 FROM: CDM	HIP_	Ply: 1 Qty: 4	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: C03	Cust: R 215 JRef: 1X3f2150001 T28 DrwNo: 063.21.1321.40730 / YK 03/04/2021
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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/defl L/# VERT(LL): 0.098 J 999 360 VERT(CL): 0.241 J 999 240 HORZ(LL): 0.047 L - - HORZ(TL): 0.124 L - - Creep Factor: 2.0 Max TC CSI: 0.556 Max BC CSI: 0.874 Max Web CSI: 0.747 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1263 - / - / /657 /194 /179 G 1263 - / - / /657 /194 - / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.5 Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 271 -1785 E - F 278 -1578 C - D 279 -1582 F - G 271 -1787 D - E 268 -1286

Lumber

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

Loading

BC attic loading: LL = 20.00 psf; DL = 5.00 psf; from 9-3-8 to 14-8-8.

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

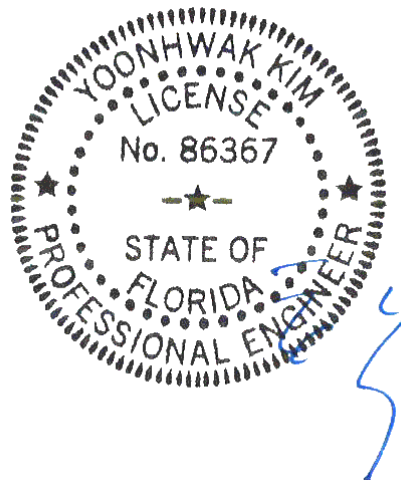
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-9-10.



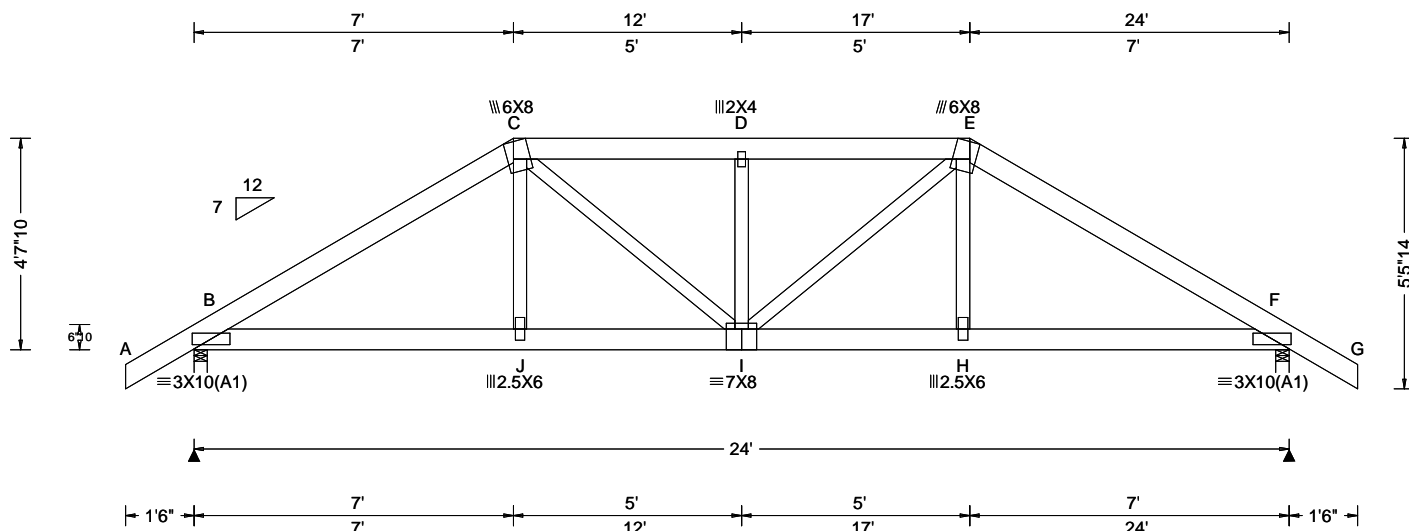
FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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6750 Forum Drive
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Orlando FL, 32821

SEQN: 410004 FROM: CDM	HIPS Ply: 1 Qty: 2	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: C04	Cust: R 215 JRef: 1X3f2150001 T21 DrwNo: 063.21.1321.51497 / YK 03/04/2021
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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): 0.074 D 999 360 VERT(CL): 0.149 D 999 240 HORZ(LL): 0.027 H - - HORZ(TL): 0.054 H - - Creep Factor: 2.0 Max TC CSI: 0.152 Max BC CSI: 0.245 Max Web CSI: 0.311 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 2324 -/- /- /- /556 -/ F 2324 -/- /- /- /556 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.9 F Brg Width = 3.5 Min Req = 1.9 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 936 -3800 D - E 944 -3836 C - D 944 -3836 E - F 936 -3800

Lumber

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

Special Loads

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

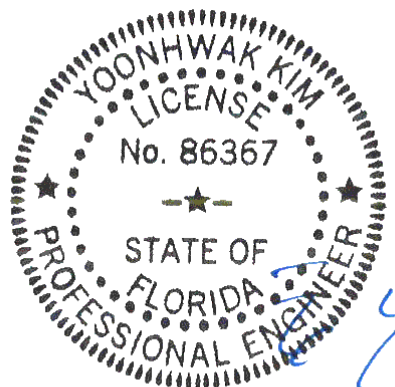
TC: From 63 plf at -1.50 to 63 plf at 7.00	TC: From 32 plf at 7.00 to 32 plf at 17.00
TC: From 63 plf at 17.00 to 63 plf at 25.50	BC: From 5 plf at -1.50 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.03	BC: From 10 plf at 7.03 to 10 plf at 16.97
BC: From 20 plf at 16.97 to 20 plf at 24.00	BC: From 5 plf at 24.00 to 5 plf at 25.50
TC: 291 lb Conc. Load at 7.03,16.97	TC: 197 lb Conc. Load at 9.06,11.06,12.94,14.94
BC: 480 lb Conc. Load at 7.03,16.97	BC: 133 lb Conc. Load at 9.06,11.06,12.94,14.94

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 4'-7"-10".

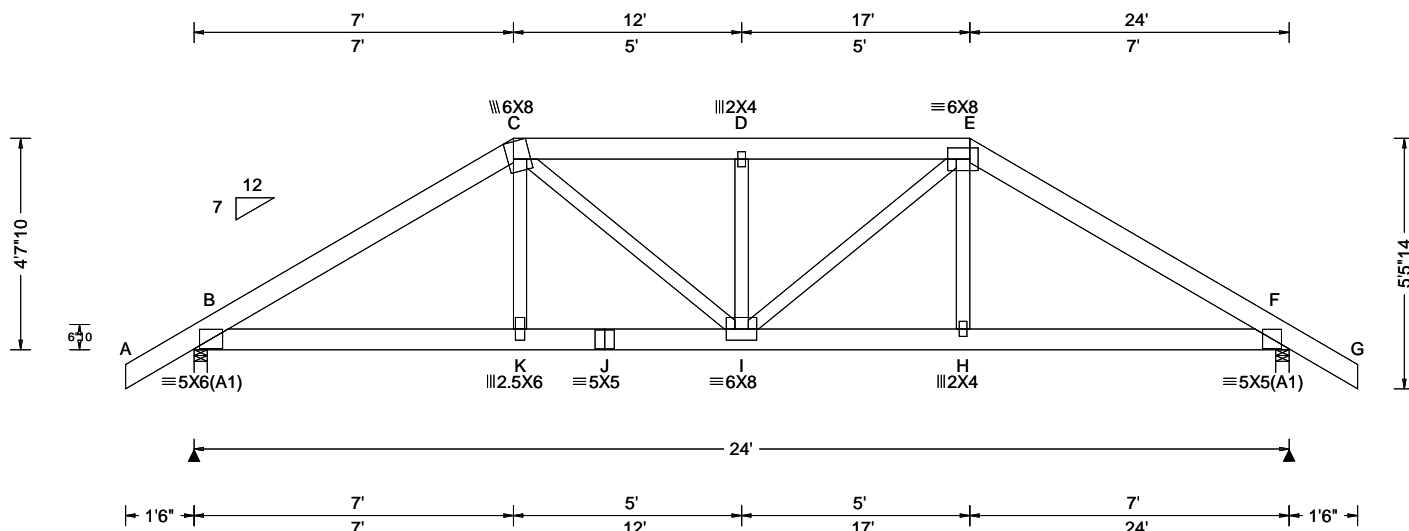


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03/04/2021

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6750 Forum Drive
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Orlando FL, 32821

SEQN: 410005 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: C05	Cust: R 215 JRRef: 1X3f2150001 T57 DrwNo: 063.21.1321.57567 / YK 03/04/2021
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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 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: 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 D 999 360 VERT(CL): 0.157 D 999 240 HORZ(LL): 0.026 H - - HORZ(TL): 0.052 H - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.287 Max Web CSI: 0.689 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 2461 -/- /- /- /535 -/ F 2062 -/- /- /- /423 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 2.0 F Brg Width = 3.5 Min Req = 1.7 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 897 -4074 D - E 864 -4149 C - D 865 -4150 E - F 682 -3301

Lumber

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

Special Loads

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

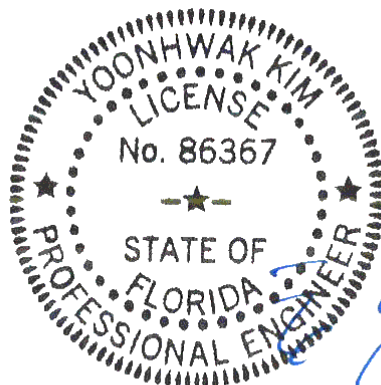
TC: From 63 plf at -1.50 to 63 plf at 7.00	TC: From 32 plf at 7.00 to 32 plf at 11.88	TC: From 63 plf at 11.88 to 63 plf at 25.50
BC: From 5 plf at -1.50 to 5 plf at 0.00	BC: From 20 plf at 0.00 to 20 plf at 7.03	BC: From 10 plf at 7.03 to 10 plf at 11.88
BC: From 20 plf at 11.88 to 20 plf at 24.00	BC: From 5 plf at 24.00 to 5 plf at 25.50	
TC: 291 lb Conc. Load at 7.03	TC: 197 lb Conc. Load at 9.06,11.06	BC: 480 lb Conc. Load at 7.03
BC: 133 lb Conc. Load at 9.06,11.06	BC: 1094 lb Conc. Load at 11.88	

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 47-10.

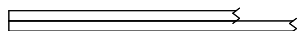


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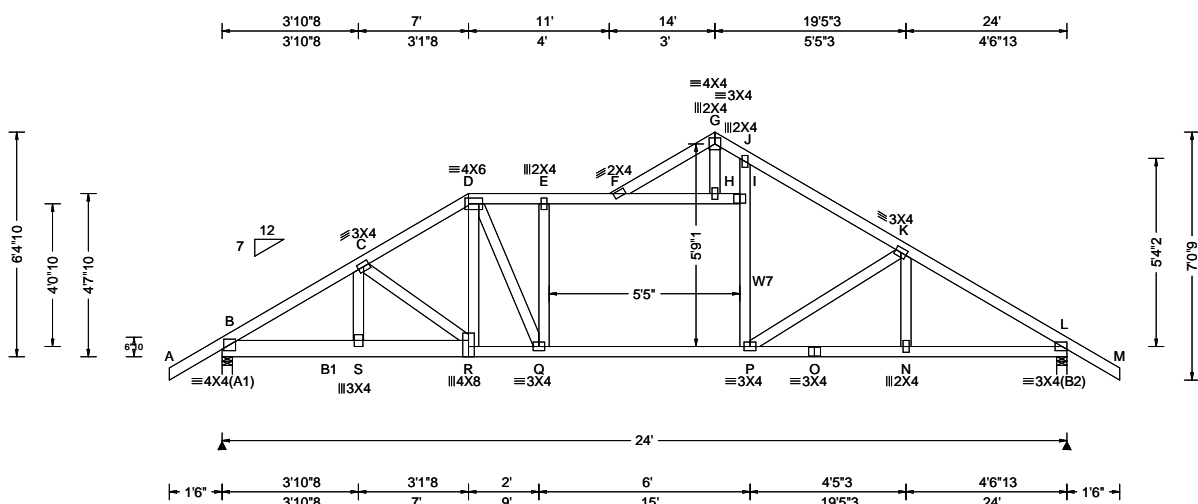
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410006 FROM: CDM	SPEC Ply: 2 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: C06	Cust: R 215 JRRef: 1X3f2150001 T62 DrwNo: 063.21.1322.23150 / YK 03/04/2021
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 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 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: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.304 E 939 360 VERT(CL): 0.600 E 476 240 HORZ(LL): 0.130 D - - HORZ(TL): 0.257 D - - Creep Factor: 2.0 Max TC CSI: 0.845 Max BC CSI: 0.521 Max Web CSI: 0.789 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2613 -/- /- /- /318 -/ L 1509 -/- /- /- /240 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 L Brg Width = 3.5 Min Req = 1.5 Bearings B & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 217 -2009 F - H 82 -737 C - D 171 -1414 G - J 77 -499 D - E 131 -1101 H - I 82 -737 E - F 133 -1100 J - K 144 -1097 F - G 66 -436 K - L 155 -1070

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B1 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W7 2x4 SP M-31;

Nailnote

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

Loading

BC attic loading: LL = 20.00 psf; DL = 5.00 psf; from 9-3-8 to 14-8-8.

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 6-4-10.

Special loads

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

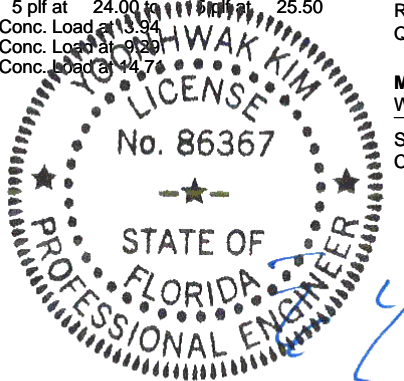
TC: From 23 plf at -1.50 to 23 plf at 7.00	
TC: From 40 plf at -1.50 to 40 plf at 25.50	
TC: From 23 plf at 7.00 to 23 plf at 25.50	
PLT: From -10 plf at 15.00 to -10 plf at 14.00	
PLT: From 5 plf at 14.00 to 5 plf at 14.71	
PLT: From 50 plf at 9.29 to 50 plf at 14.71	
BC: From 5 plf at -1.50 to 5 plf at 0.00	
BC: From 20 plf at 0.00 to 20 plf at 24.00	
BC: From 5 plf at 24.00 to 5 plf at 25.50	
BC: 1611 lb Conc. Load at 3.94	
BC: 16 lb Conc. Load at 9.29	
BC: 21 lb Conc. Load at 14.71	

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	1693 -175	P - O	879 -120
S - R	1685 -175	O - N	879 -120
R - Q	1214 -140	N - L	876 -119
Q - P	1100 -133		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - C	618 -39	D - R	718 -62
C - R	47 -602	G - H	470 -61



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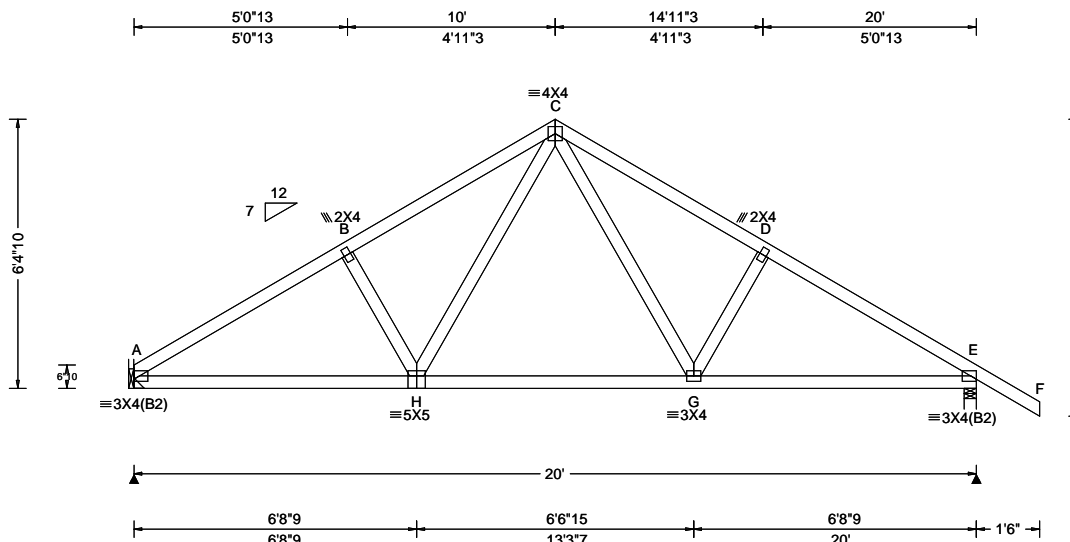
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409968 FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: D01	Cust: R 215 JRef: 1X3f2150001 T36 DrwNo: 063.21.1322.25293 / YK 03/04/2021
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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: 3.00 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): 0.049 G 999 360 VERT(CL): 0.095 G 999 240 HORZ(LL): 0.025 G - - HORZ(TL): 0.049 G - - Creep Factor: 2.0 Max TC CSI: 0.466 Max BC CSI: 0.561 Max Web CSI: 0.171 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL A 872 - / - /477 /9 /178 E 982 - / - /563 /16 - Wind reactions based on MWFRS A Brg Width = - Min Req = - E Brg Width = 3.5 Min Req = 1.5 Bearing E is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 49 - 1327 C - D 79 - 1165 B - C 81 - 1178 D - E 48 - 1314

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

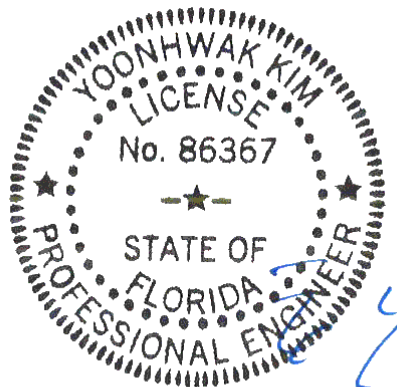
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6'-4"-10'.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	1072 -79	G - E	1054 0
H - G	737 -4		

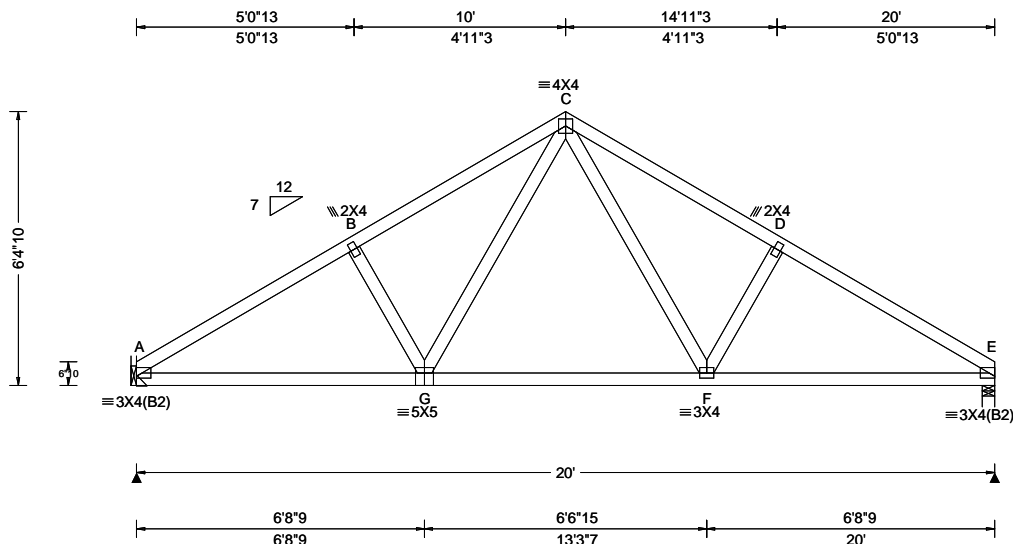
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
H - C	450 -39	C - G	429 -41

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

SEQN: 409969 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: D02	Cust: R 215 JRef: 1X3f2150001 T44 DrwNo: 063.21.1322.26877 / YK 03/04/2021
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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: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.047 F 999 360 VERT(CL): 0.092 F 999 240 HORZ(LL): 0.023 F - - HORZ(TL): 0.045 F - - Creep Factor: 2.0 Max TC CSI: 0.360 Max BC CSI: 0.522 Max Web CSI: 0.172 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL A 876 - / - / 477 / 9 / 150 E 876 - / - / 477 / 9 / - Wind reactions based on MWFRS A Brg Width = - Min Req = - E Brg Width = 3.5 Min Req = 1.5 Bearing E is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 49 - 1334 C - D 81 - 1186 B - C 81 - 1185 D - E 49 - 1336

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

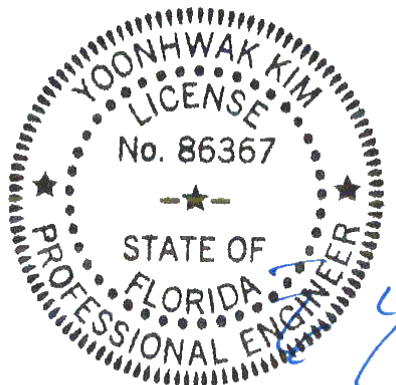
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6'-4"-10".

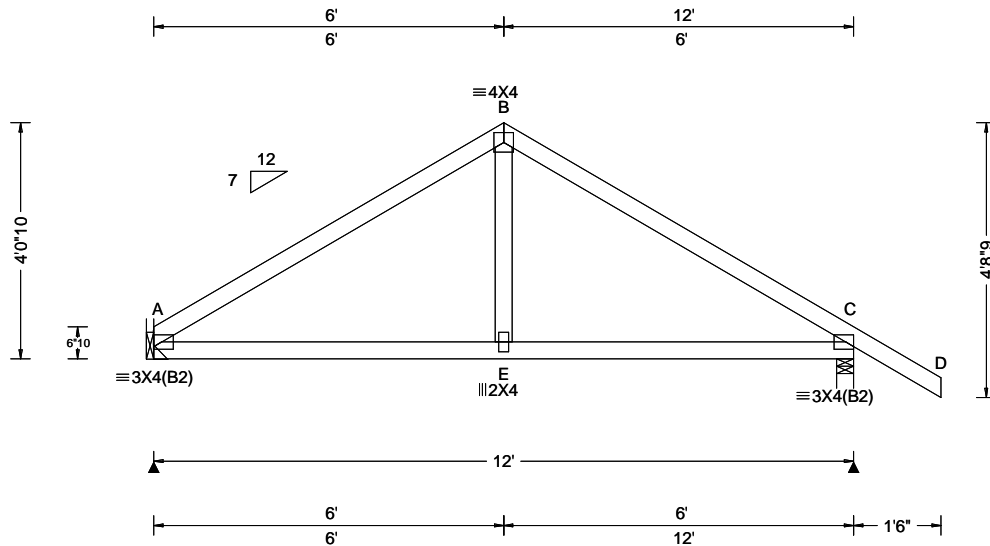


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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409970 FROM: CDM	COMN Ply: 1 Qty: 3	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: G01	Cust: R 215 JRef: 1X3f2150001 T33 DrwNo: 063.21.1322.28907 / YK 03/04/2021
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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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 E 999 360 VERT(CL): 0.015 E 999 240 HORZ(LL): 0.004 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.368 Max BC CSI: 0.366 Max Web CSI: 0.100 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 492 -/- /- /285 /78 /117 C 608 -/- /- /374 /108 -/ Wind reactions based on MWFRS A Brg Width = - Min Req = - C Brg Width = 3.5 Min Req = 1.5 Bearing C is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 117 -605 B - C 118 -610

Lumber

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

Hangers / Ties

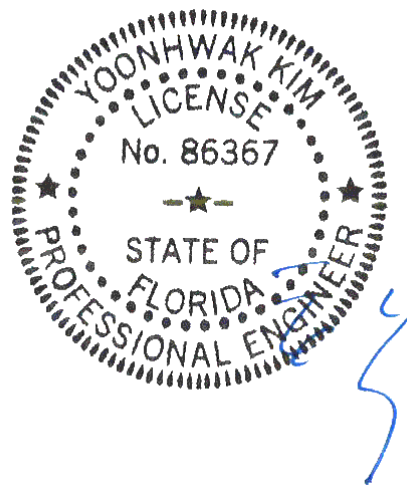
(J) Hanger Support Required, by others

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 4'-0-10.

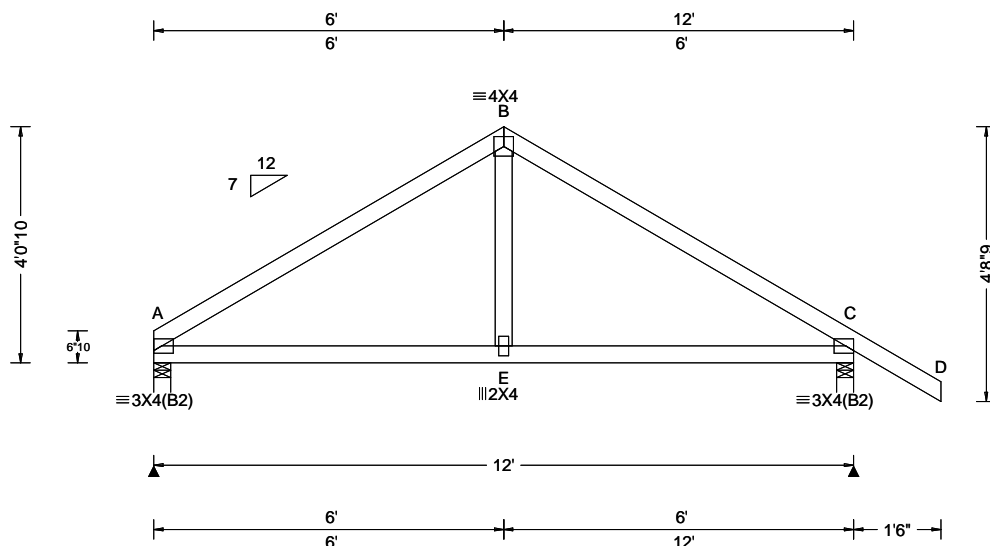


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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409971 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: G02	Cust: R 215 JRef: 1X3f2150001 T10 DrwNo: 063.21.1322.30460 / YK 03/04/2021
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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): 0.007 E 999 360 VERT(CL): 0.015 E 999 240 HORZ(LL): 0.004 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.368 Max BC CSI: 0.366 Max Web CSI: 0.100 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 492 -/- /- /285 /78 /117 C 608 -/- /- /374 /108 -/ Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 C Brg Width = 3.5 Min Req = 1.5 Bearings A & C 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 117 -605 B - C 118 -610

Lumber

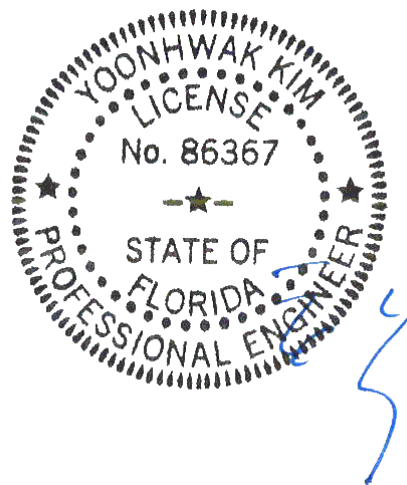
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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 4'-0"-10".

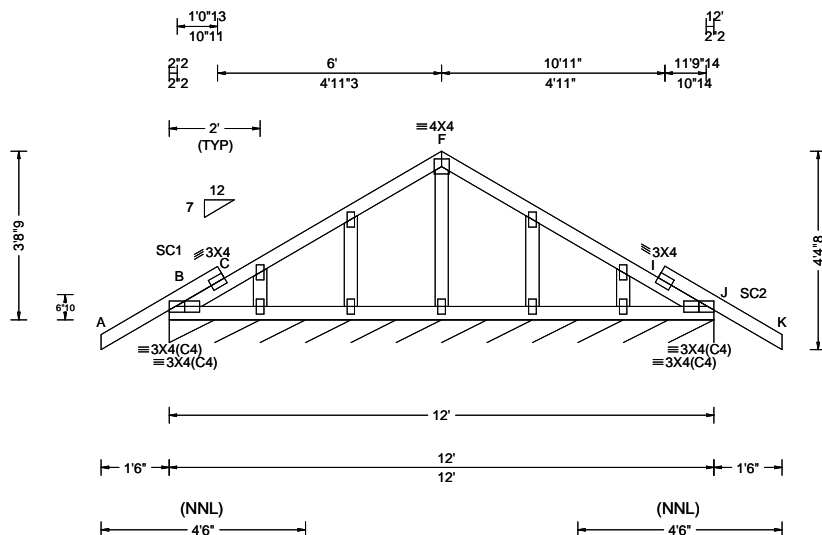


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

SEQN: 409972 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: G03	Cust: R 215 JRef: 1X3f2150001 T22 DrwNo: 063.21.1322.33090 / YK 03/04/2021
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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: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 P 999 360 VERT(CL): 0.004 P 881 240 HORZ(LL): 0.001 I - - HORZ(TL): 0.002 I - - Creep Factor: 2.0 Max TC CSI: 0.327 Max BC CSI: 0.122 Max Web CSI: 0.032 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J* 151 /- /- /67 /- /6 Wind reactions based on MWFRS J Brg Width = 144 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 477 -495 I - J 477 -493

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.

Loading

Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

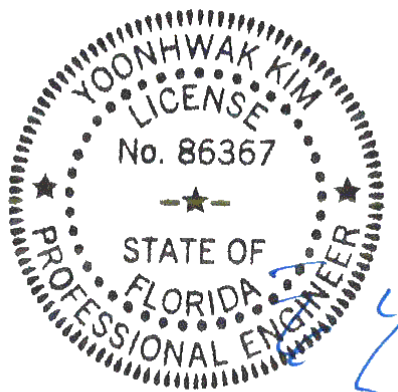
Wind loading based on both gable and hip roof types.

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 notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

The overall height of this truss excluding overhang is 3-8-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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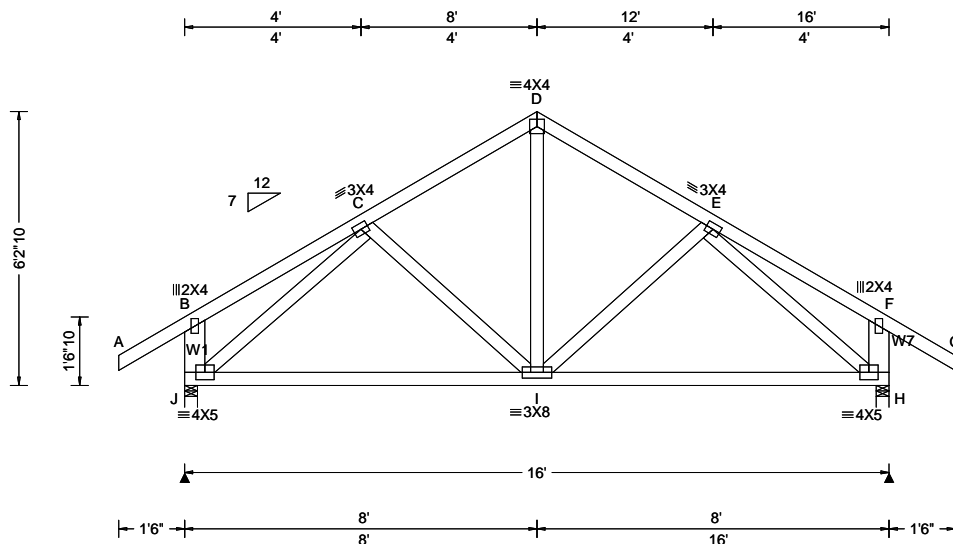
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6750 Forum Drive
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SEQN: 409973 FROM: CDM	COMN Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: H01	Cust: R 215 JRef: 1X3f2150001 T48 DrwNo: 063.21.1322.34740 / YK 03/04/2021
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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/defl L/# VERT(LL): 0.013 I 999 360 VERT(CL): 0.026 I 999 240 HORZ(LL): 0.007 F - - HORZ(TL): 0.015 F - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.635 Max Web CSI: 0.335 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL J 767 -/- /- /456 /134 /164 H 767 -/- /- /456 /134 -/ Non-Gravity Wind reactions based on MWFRS J Brg Width = 3.5 Min Req = 1.5 H Brg Width = 3.5 Min Req = 1.5 Bearings J & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 162 -611 D - E 162 -611

Lumber

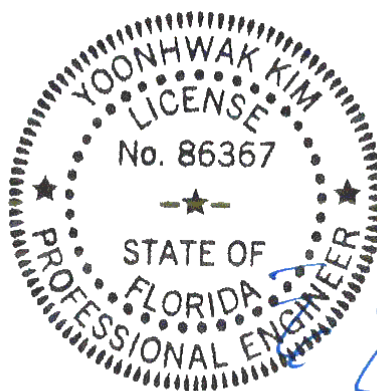
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W1,W7 2x6 SP 2400f-2.0E;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals 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'-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
J - I	540 -94	I - H	540 -67

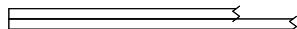
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
J - C	112 -643	E - H	112 -643

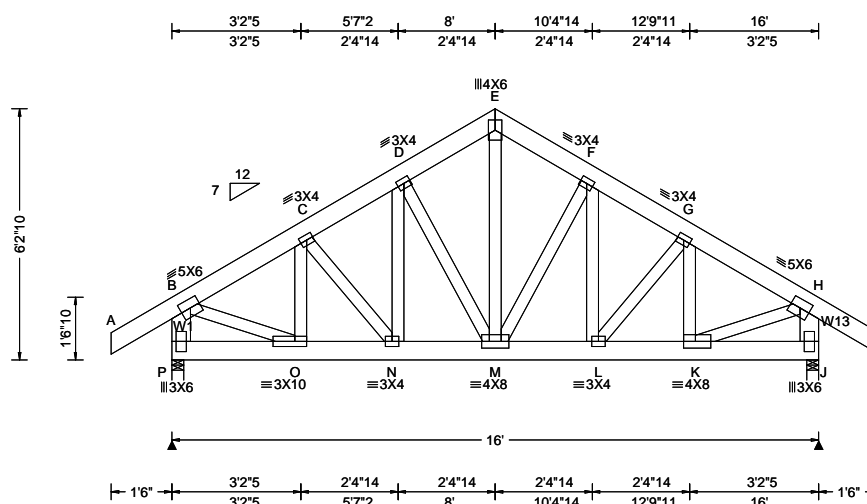
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6750 Forum Drive
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SEQN: 409996 FROM: CDM	COMN Ply: 2 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: H02	Cust: R 215 JRRef: 1X3f2150001 T14 DrwNo: 063.21.1322.36227 / YK 03/04/2021
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 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 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: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.031 L 999 360 VERT(CL): 0.060 L 999 240 HORZ(LL): 0.011 C - - HORZ(TL): 0.022 C - - Creep Factor: 2.0 Max TC CSI: 0.076 Max BC CSI: 0.193 Max Web CSI: 0.833 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL P 4848 -/- /- /- /364 -/ J 5067 -/- /- /- /365 -/ Wind reactions based on MWFRS P Brg Width = 3.5 Min Req = 2.0 J Brg Width = 3.5 Min Req = 2.1 Bearings P & 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 172 -2445 E - F 138 -1959 C - D 164 -2335 F - G 165 -2365 D - E 138 -1959 G - H 174 -2540

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W1,W13 2x6 SP 2400f-2.0E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Special Loads

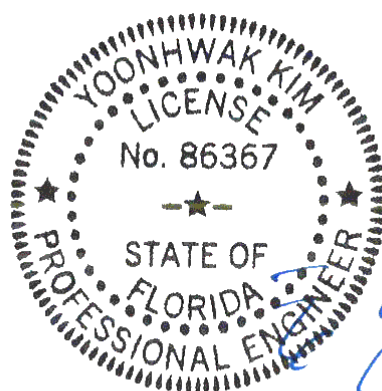
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -1.50 to 63 plf at 17.50
BC: From 5 plf at -1.50 to 5 plf at 0.00
BC: From 10 plf at 0.00 to 10 plf at 16.00
BC: From 5 plf at 16.00 to 5 plf at 17.50
BC: 1021 lb Conc. Load at 0.94, 2.94, 4.94, 6.94
8.94,10.94
BC: 1184 lb Conc. Load at 12.94
BC: 1231 lb Conc. Load at 14.94

Wind

Wind loads and reactions based on MWFRS.
End verticals 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'-2-10.



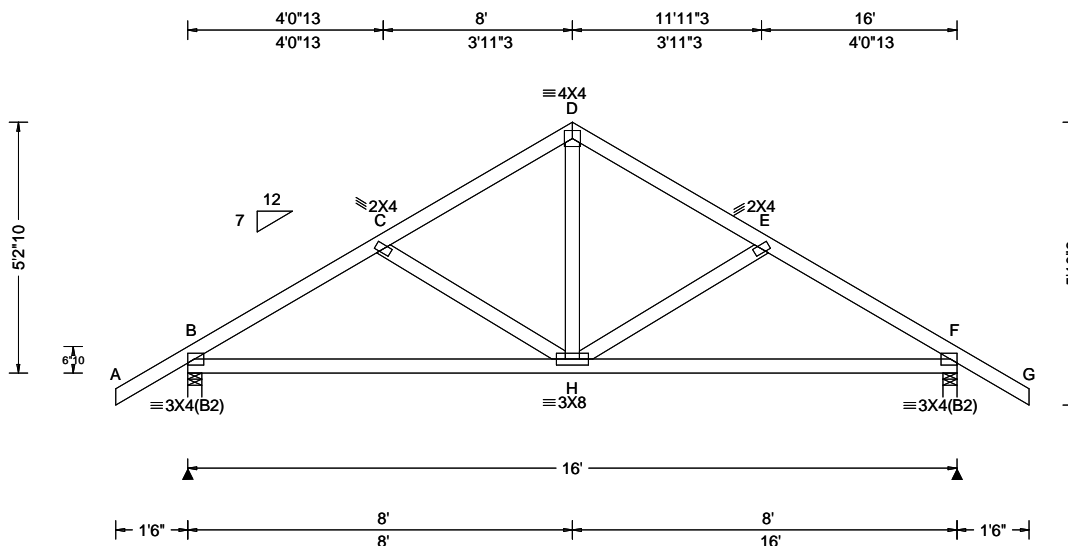
FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

SEQN: 409974 FROM: CDM	COMN Ply: 1 Qty: 3	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: H03	Cust: R 215 JRef: 1X3f2150001 T23 DrwNo: 063.21.1322.38100 / YK 03/04/2021
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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): 0.026 H 999 360 VERT(CL): 0.053 H 999 240 HORZ(LL): 0.013 H - - HORZ(TL): 0.027 H - - Creep Factor: 2.0 Max TC CSI: 0.316 Max BC CSI: 0.636 Max Web CSI: 0.164 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 767 -/- /- /468 /133 /164 F 767 -/- /- /468 /133 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 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 190 -916 D - E 154 -697 C - D 154 -697 E - F 190 -916

Lumber

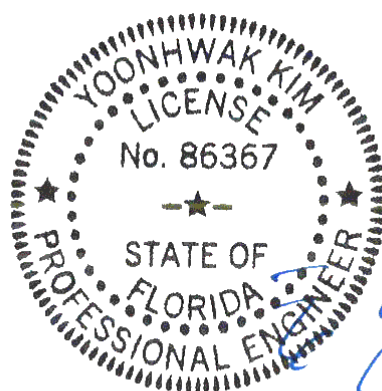
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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 5-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	725 -86	H - F	725 -86

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
D - H	431 -46

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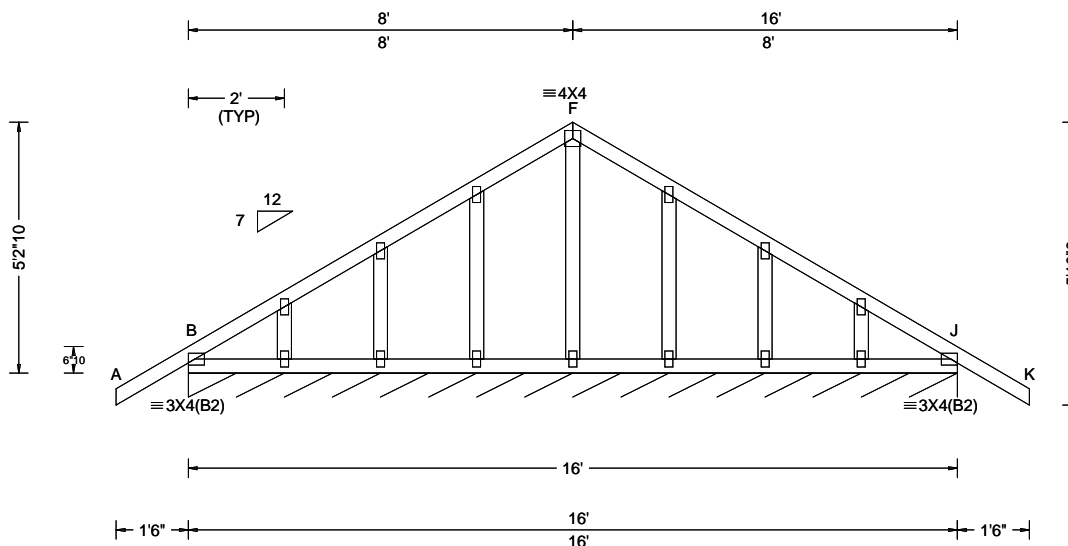
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ALPINE
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6750 Forum Drive
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Orlando FL, 32821

SEQN: 409975 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: H04	Cust: R 215 JRef: 1X3f2150001 T46 DrwNo: 063.21.1322.39800 / YK 03/04/2021
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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): 0.001 F 999 360 VERT(CL): 0.001 F 999 240 HORZ(LL): -0.002 D - - HORZ(TL): 0.002 D - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.033 Max Web CSI: 0.067 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J* 96 /- /- /49 /17 /10 Wind reactions based on MWFRS J Brg Width = 192 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

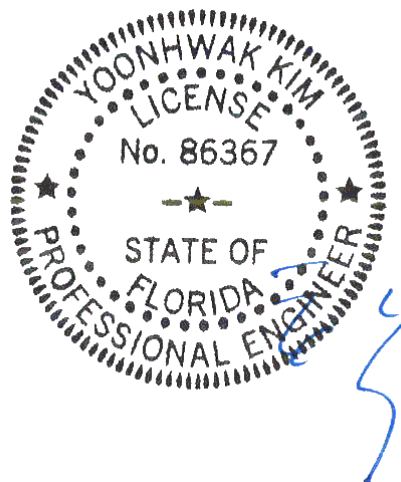
All plates are 2X4 except as noted.

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.
The overall height of this truss excluding overhang is 5-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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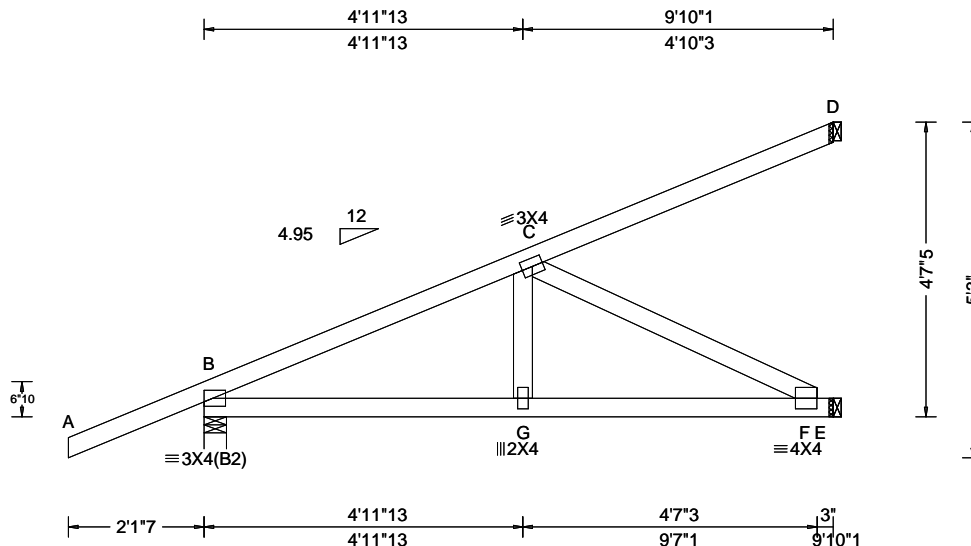
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SEQN: 409997 FROM: CDM	HIP_ Ply: 1 Qty: 7	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: HJ1	Cust: R 215 JRRef: 1X3f2150001 T32 DrwNo: 063.21.1322.41713 / YK 03/04/2021
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Loading 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): 0.026 G 999 360 VERT(CL): 0.051 G 999 240 HORZ(LL): -0.008 D - - HORZ(TL): 0.015 D - - Creep Factor: 2.0 Max TC CSI: 0.704 Max BC CSI: 0.712 Max Web CSI: 0.346 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 367 -/- /- /186 -/ E 347 -/- /- /81 -/ D 93 -/- /- /40 -/ Wind reactions based on MWFRS B Brg Width = 4.2 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 229 -629 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - G 582 -186 G - F 573 -187 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. C - F 211 -645

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	-2.12 to	62 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	9.84
BC: From	0 plf at	-2.12 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	9.84
TC:	-41 lb Conc. Load at	1.38		
TC:	134 lb Conc. Load at	4.21		
TC:	270 lb Conc. Load at	7.03		
BC:	23 lb Conc. Load at	1.38		
BC:	108 lb Conc. Load at	4.21		
BC:	187 lb Conc. Load at	7.03		

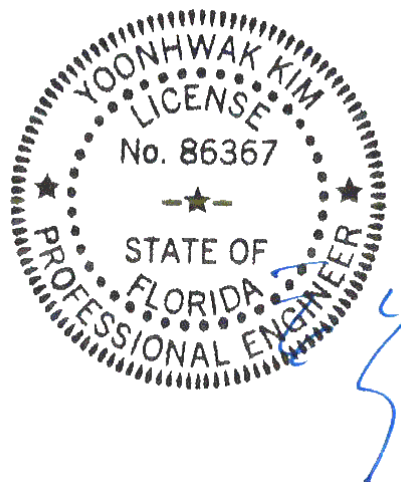
Wind

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 4'-7.5'.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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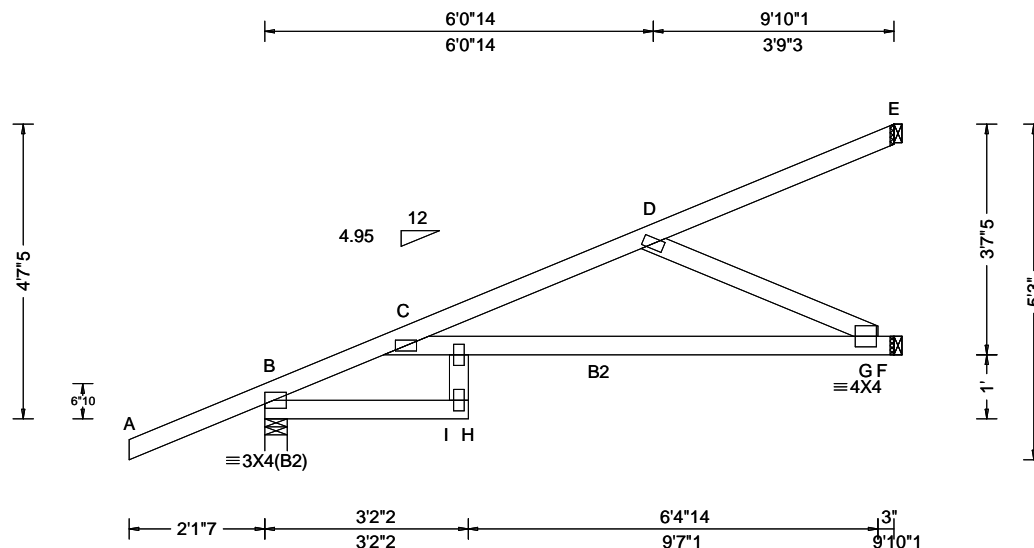
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

SEQN: 409998 FROM:	HIP_ Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: HJ2	Cust: R 215 JRef: 1X3f2150001 T61 DrwNo: 063.21.1322.43317 / YK 03/04/2021
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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): 0.231 H 507 360 VERT(CL): 0.402 H 291 240 HORZ(LL): 0.087 I - - HORZ(TL): 0.170 I - - Creep Factor: 2.0 Max TC CSI: 0.940 Max BC CSI: 0.461 Max Web CSI: 0.315 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 367 /- /- /- /184 /- F 397 /- /- /- /109 /- E 19 /- /- /- /9 /- Wind reactions based on MWFRS B Brg Width = 4.2 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

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

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -2.12 to 62 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 9.84
BC: From 0 plf at -2.12 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 9.84
TC: -41 lb Conc. Load at 1.38
TC: 137 lb Conc. Load at 4.21
TC: 270 lb Conc. Load at 7.03
BC: 23 lb Conc. Load at 1.38
BC: 86 lb Conc. Load at 4.21
BC: 164 lb Conc. Load at 7.03

Plating Notes

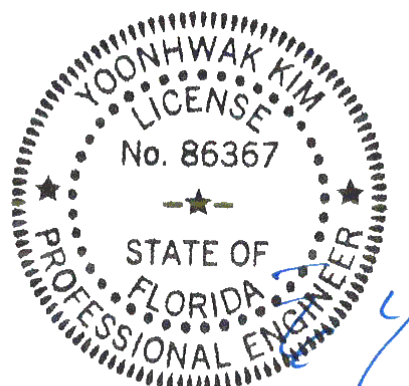
All plates are 2X4 except as noted.

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 4'-7.5".

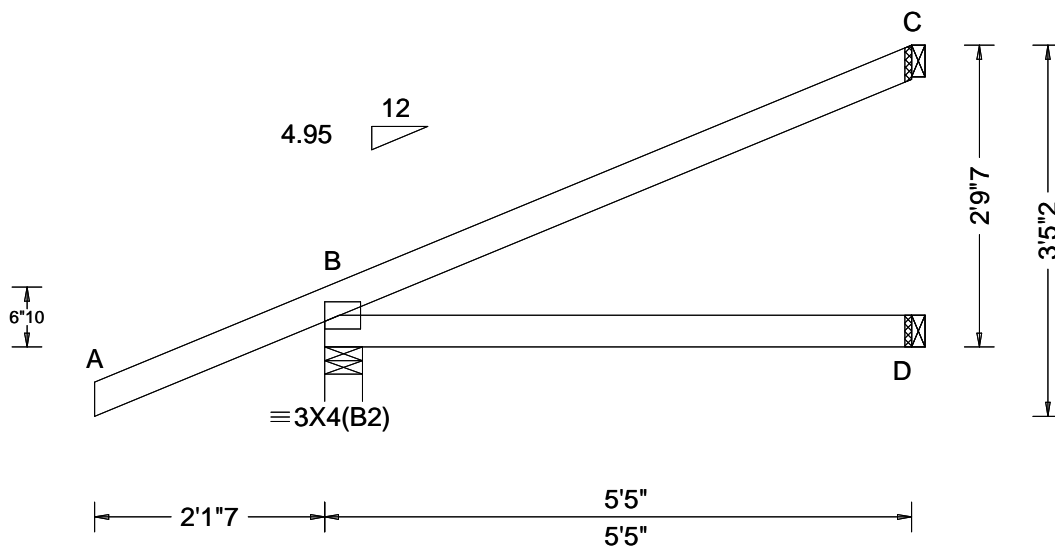


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

SEQN: 409999 FROM: CDM	HIP_ Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: HJ3	Cust: R 215 JRef: 1X3f2150001 T37 DrwNo: 063.21.1322.45290 / YK 03/04/2021
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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/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.160 Max BC CSI: 0.309 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 236 /- /- /- /45 /- D 100 /- /- /3 /- /- C 53 /- /- /- /12 /- Wind reactions based on MWFRS B Brg Width = 4.2 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Special Loads

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

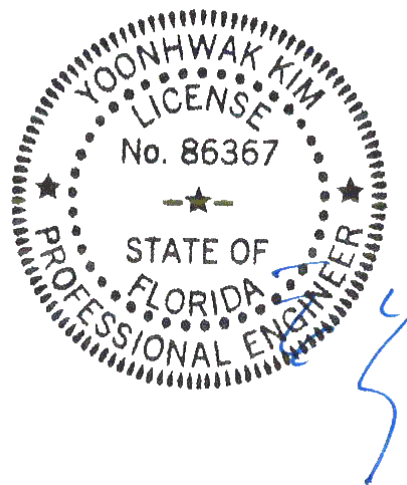
TC: From 0 plf at -2.12 to 62 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 5.42
BC: From 0 plf at -2.12 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 5.42
TC: 36 lb Conc. Load at 2.57
BC: 62 lb Conc. Load at 2.57

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 2'-9"-7".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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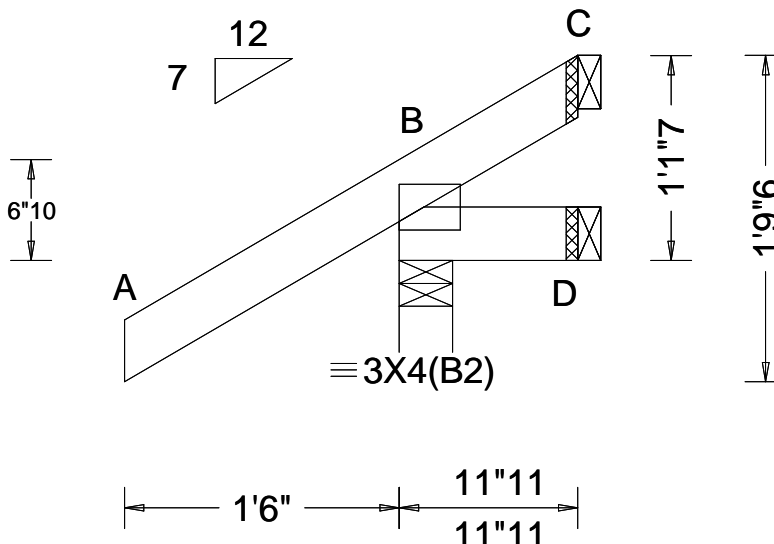
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409976 FROM: CDM	JACK Ply: 1 Qty: 16	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J1	Cust: R 215 JRef: 1X3f2150001 T26 DrwNo: 063.21.1322.46050 / YK 03/04/2021
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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 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.027 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 237 /- /- /186 /53 /44 D 12 /-6 /- /11 /6 /- C - /-48 /- /32 /48 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

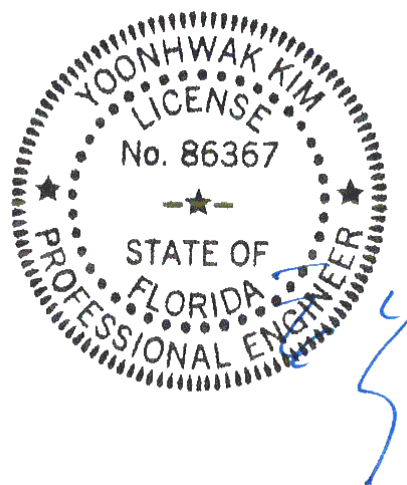
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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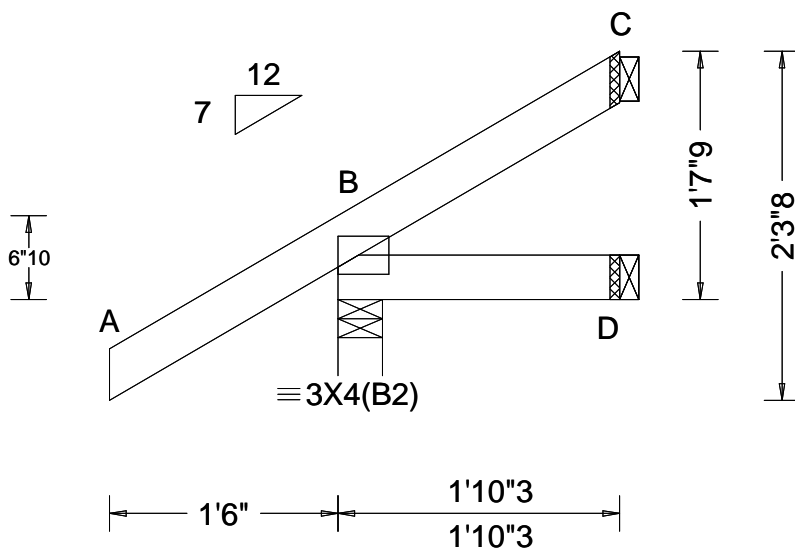
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409977 FROM: CDM	JACK Ply: 1 Qty: 2	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J1A	Cust: R 215 JRef: 1X3f2150001 T42 DrwNo: 063.21.1322.46943 / YK 03/04/2021
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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 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.029 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 228 /- /- /170 /36 /62 D 31 /- /- /20 /- /- C 18 /- /- /27 /22 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

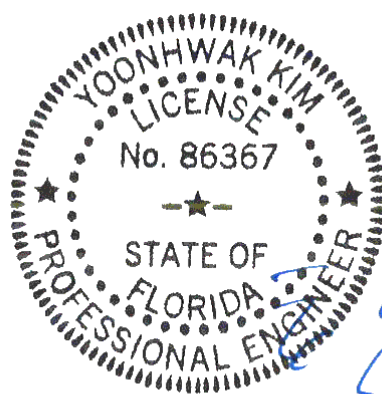
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 1'-7-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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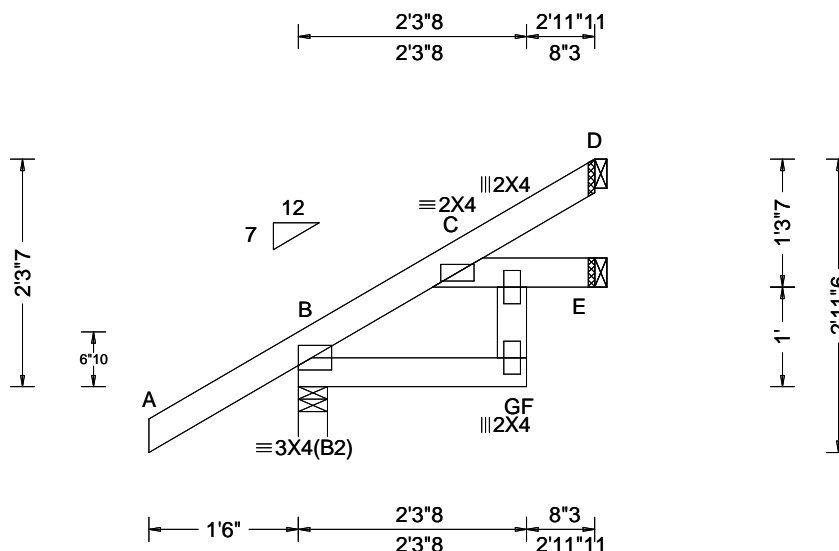
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409978 FROM:	JACK Ply: 1 Qty: 2	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J2	Cust: R 215 JRef: 1X3f2150001 T3 DrwNo: 063.21.1322.47820 / YK 03/04/2021
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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): 0.004 G 999 360 VERT(CL): 0.008 G 999 240 HORZ(LL): -0.003 G - - HORZ(TL): 0.005 G - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.047 Max Web CSI: 0.032 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 257 /- /- /184 /31 /85 E 43 /- /- /28 /- /- D 69 /- /- /44 /38 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

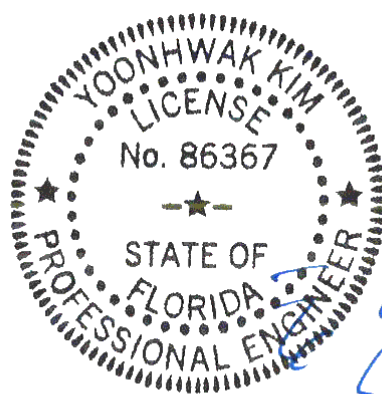
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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 2-3-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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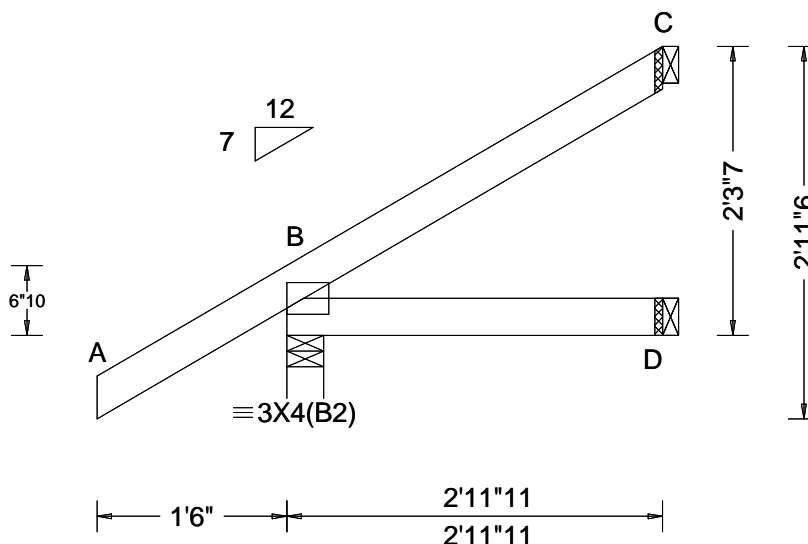
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409979 FROM: CDM	JACK Ply: 1 Qty: 14	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J3	Cust: R 215 JRRef: 1X3f2150001 T25 DrwNo: 063.21.1322.48460 / YK 03/04/2021
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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): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.088 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 257 /- /- /184 /31 /85 D 54 /- /- /31 /- /- C 67 /- /- /40 /44 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

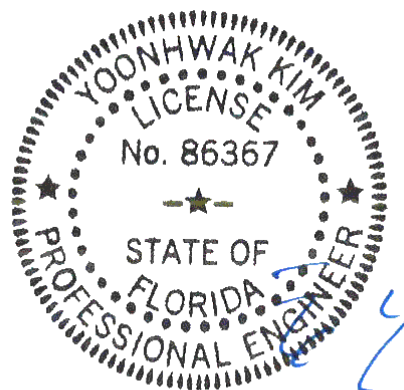
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 2-3-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

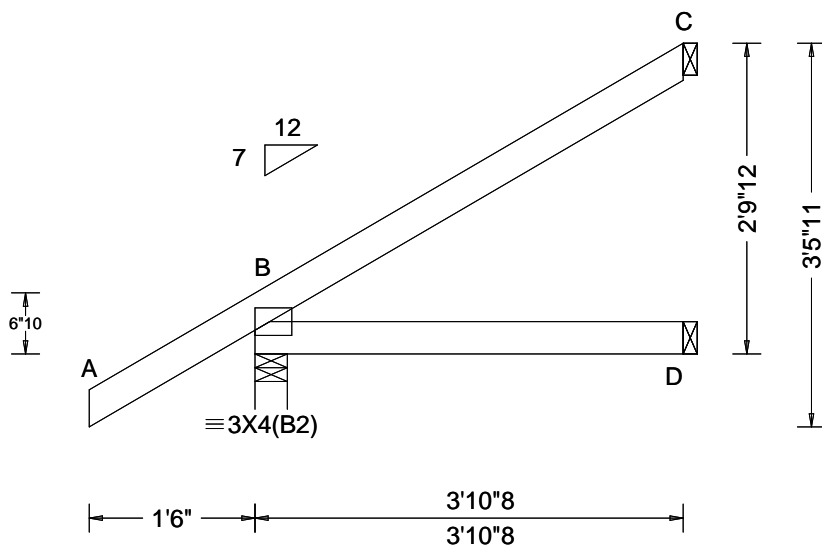
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409980 FROM: CDM	EJAC Ply: 1 Qty: 2	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J3A	Cust: R 215 JRRef: 1X3f2150001 T45 DrwNo: 063.21.1322.49313 / YK 03/04/2021
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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): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.199 Max BC CSI: 0.160 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 287 - / - /202 /30 /103 D 72 - / - /40 - / - C 99 - / - /62 /60 - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

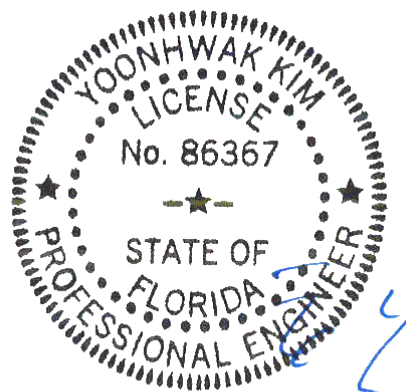
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 2-9-12.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

Diagram illustrating a structural frame with dimensions and member labels:

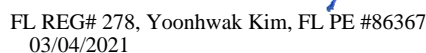
- Vertical Dimensions:**
 - Left side: Total height is 3'5"7. A section is marked 6"10.
 - Right side: Total height is 4'1"6. A section is marked 2'5"7. A section is marked 1'.
- Horizontal Dimensions:**
 - Bottom: 1'6" (from A to B), 2'3"8 (from B to C), 2'8"3 (from C to D).
 - Bottom right: 2'3"8 (from B to C), 4'11"11 (from C to D).
- Members and Connections:**
 - Member AD:** Inclined member, labeled $\equiv 2X4$ and $\equiv 2X4$.
 - Member BE:** Horizontal member, labeled $\equiv 2X4$.
 - Member BC:** Horizontal member, labeled $\equiv 2X4$.
 - Member AB:** Vertical member, labeled $\equiv 3X4(B2)$.
 - Member GF:** Vertical member, labeled $\equiv 2X4$.
- Connections:**
 - At point A: Connection to member AB.
 - At point B: Connection to members AB and BC.
 - At point C: Connection to members BC, BE, and AD.
 - At point D: Connection to member AD.
 - At point E: Connection to member BE.
 - At point GF: Connection to member GF.

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

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

Wind loading based on both gable and hip roof types.

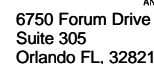
The overall height of this truss excluding overhang is 3-5-7.



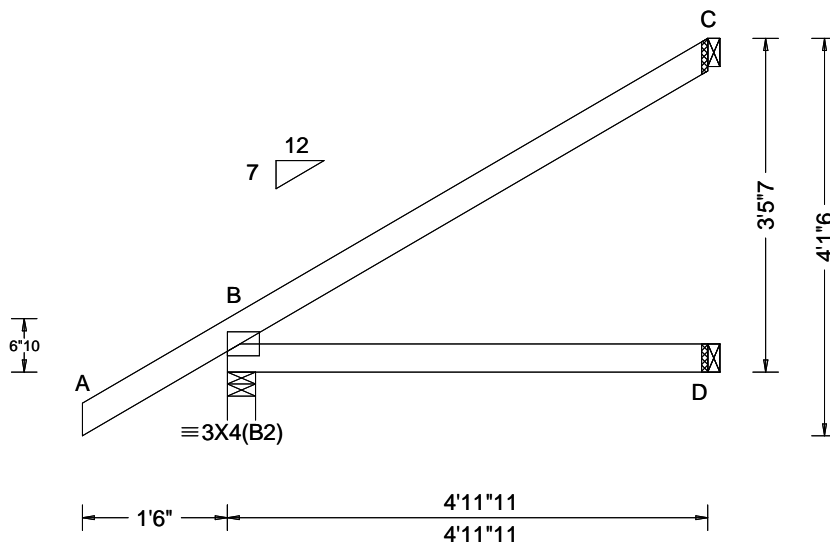
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SEQN: 409982 FROM: CDM	JACK Ply: 1 Qty: 14	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J5	Cust: R 215 JRef: 1X3f2150001 T24 DrwNo: 063.21.1322.50890 / YK 03/04/2021
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Loading 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): -0.003 C - - HORZ(TL): 0.006 D - - Creep Factor: 2.0 Max TC CSI: 0.351 Max BC CSI: 0.271 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 328 /- /- /226 /30 /126 D 94 /- /- /51 /- /- C 135 /- /- /87 /78 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

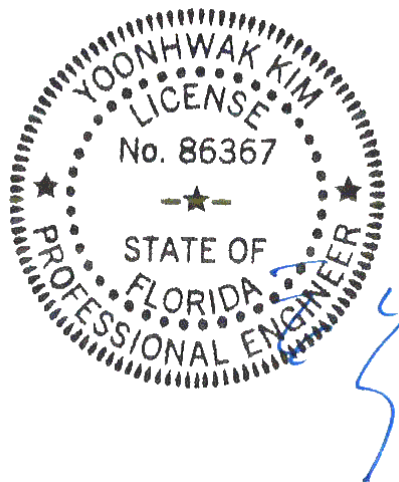
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 3-5-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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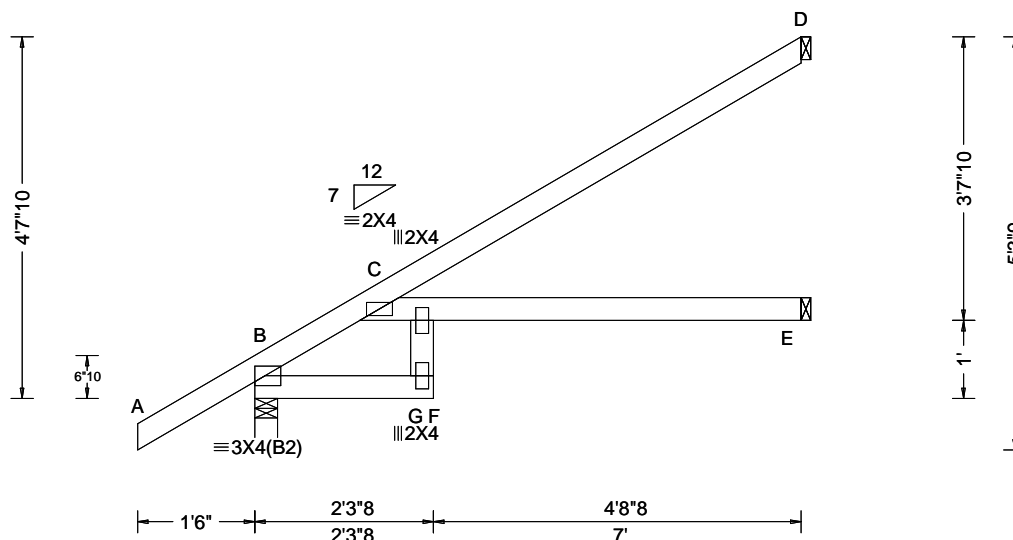
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409983 FROM: CDM	EJAC Ply: 1 Qty: 6	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J6	Cust: R 215 JRef: 1X3f2150001 T35 DrwNo: 063.21.1322.51590 / YK 03/04/2021
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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 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): 0.137 F 605 360 VERT(CL): 0.276 F 301 240 HORZ(LL): 0.078 G - - HORZ(TL): 0.157 G - - Creep Factor: 2.0 Max TC CSI: 0.784 Max BC CSI: 0.465 Max Web CSI: 0.313 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 407 /- /- /274 /30 /168 E 123 /- /- /72 /- /- D 196 /- /- /130 /102 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

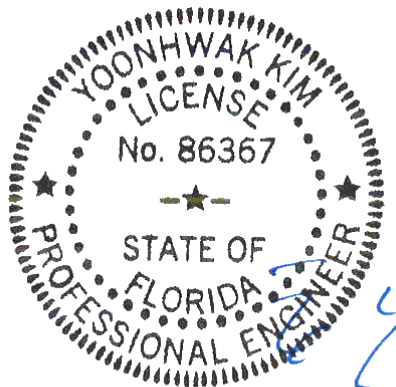
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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 4'-7"-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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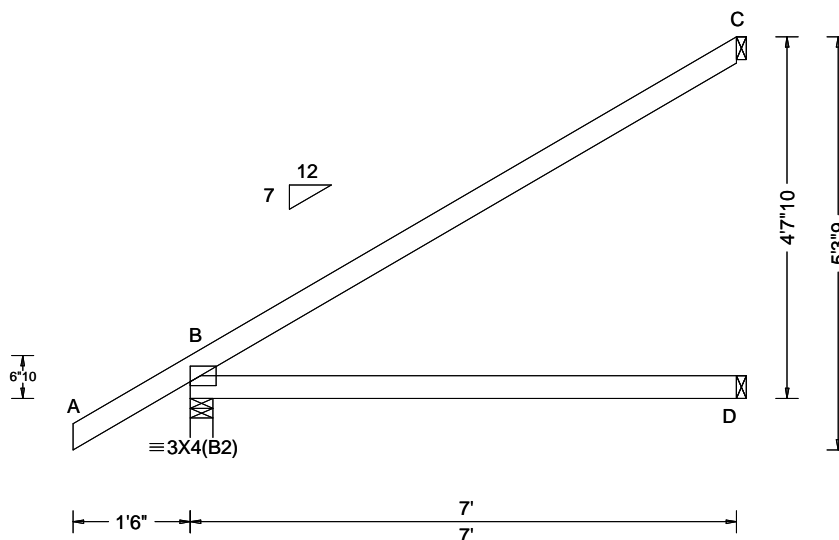
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409984 FROM: CDM	EJAC Ply: 1 Qty: 46	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J7	Cust: R 215 JRef: 1X3f2150001 T27 DrwNo: 063.21.1322.52307 / YK 03/04/2021
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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 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): 0.011 D - - HORZ(TL): 0.022 D - - Creep Factor: 2.0 Max TC CSI: 0.795 Max BC CSI: 0.550 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 407 /- /- /274 /30 /168 D 133 /- /- /73 /- /- C 197 /- /- /129 /111 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

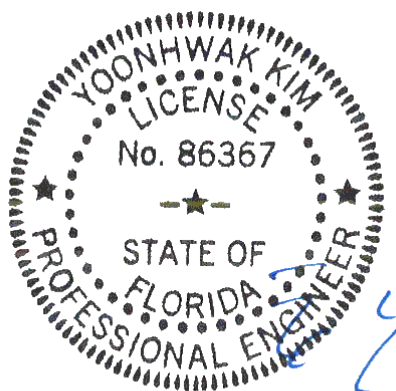
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 4'-7"-10".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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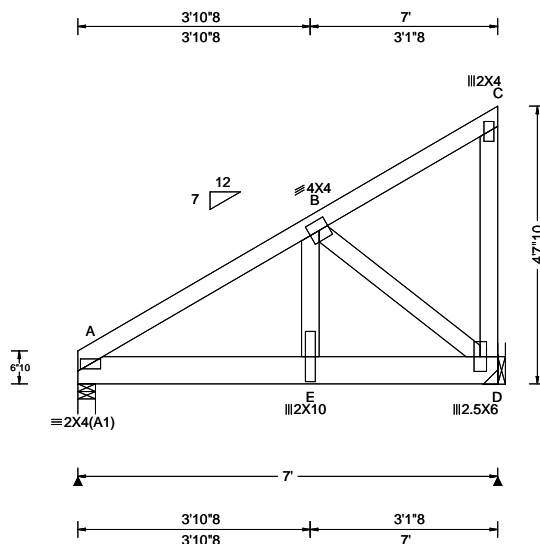
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410000 FROM: CDM	MONO Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J7A	Cust: R 215 JRef: 1X3f2150001 T31 DrwNo: 063.21.1322.53000 / YK 03/04/2021
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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 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: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.010 E 999 360 VERT(CL): 0.019 E 999 240 HORZ(LL): -0.004 C - - HORZ(TL): 0.008 C - - Creep Factor: 2.0 Max TC CSI: 0.164 Max BC CSI: 0.204 Max Web CSI: 0.365 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL A 894 /- /- /- /168 /- D 1094 /- /- /- /199 /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 D Brg Width = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 205 - 1070

Lumber

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

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at 0.00 to 63 plf at 7.00
BC: From 10 plf at 0.00 to 10 plf at 7.00
BC: 492 lb Conc. Load at 2.06, 4.06, 6.06

Hangers / Ties

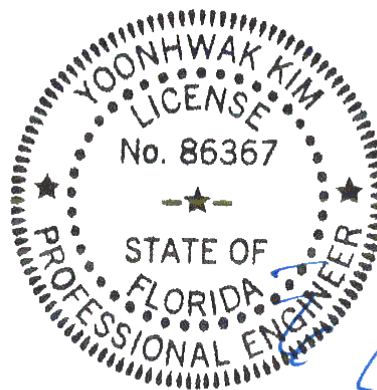
(J) Hanger Support Required, by others

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 4'-7-10.

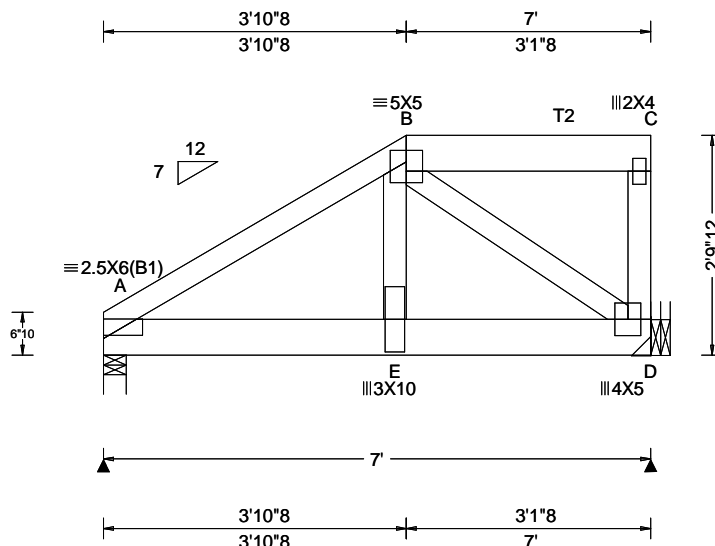


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

SEQN: 410001 FROM: CDM	HIPM Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: J7B	Cust: R 215 JRef: 1X3f2150001 T63 DrwNo: 063.21.1322.54230 / YK 03/04/2021
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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): 0.017 E 999 360 VERT(CL): 0.035 E 999 240 HORZ(LL): 0.002 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.253 Max BC CSI: 0.331 Max Web CSI: 0.690 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 1918 -/- /- /102 -/ D 1611 -/- /- /112 -/ Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.6 D Brg Width = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 120 - 1983

Lumber

Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at 0.00 to 63 plf at 3.87
TC: From 32 plf at 3.87 to 32 plf at 7.00
BC: From 10 plf at 0.00 to 10 plf at 7.00
TC: 53 lb Conc. Load at 3.87
TC: 99 lb Conc. Load at 3.94, 5.94
BC: 876 lb Conc. Load at 1.06
BC: 872 lb Conc. Load at 3.06, 5.06
BC: 100 lb Conc. Load at 3.87
BC: 72 lb Conc. Load at 3.94, 5.94

Hangers / Ties

(J) Hanger Support Required, by others

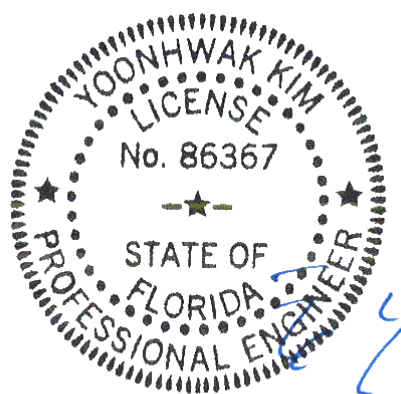
Wind

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

Additional Notes

The overall height of this truss excluding overhang is 29'-12\"/>

WIND LOAD CASE MODIFIED!

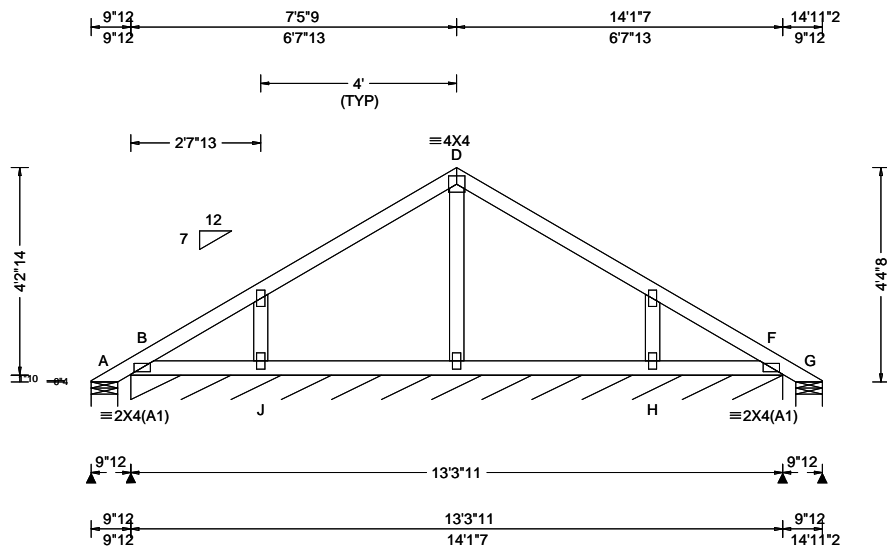


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

SEQN: 409985 FROM: CDM	GABL Ply: 1 Qty: 16	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: P01	Cust: R 215 JRef: 1X3f2150001 T19 DrwNo: 063.21.1322.56050 / YK 03/04/2021
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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: 19.50 ft TCDL: 5.0 psf BCDL: 2.0 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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 D 999 360 VERT(CL): 0.001 D 999 240 HORZ(LL): 0.001 E - - HORZ(TL): 0.001 E - - Creep Factor: 2.0 Max TC CSI: 0.205 Max BC CSI: 0.066 Max Web CSI: 0.060 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 20 /- /- /60 /56 /115 B* 69 /- /- /49 /27 /- G 20 /- /- /8 /9 /- J /-167 H /-167 Wind reactions based on MWFRS A Brg Width = 6.5 Min Req = 1.5 B Brg Width = 159 Min Req = - G Brg Width = 6.5 Min Req = 1.5 Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Purlins

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

Wind

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

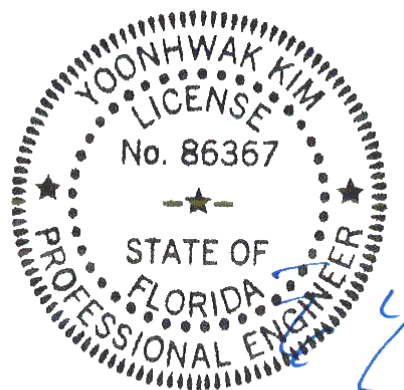
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 13'-8".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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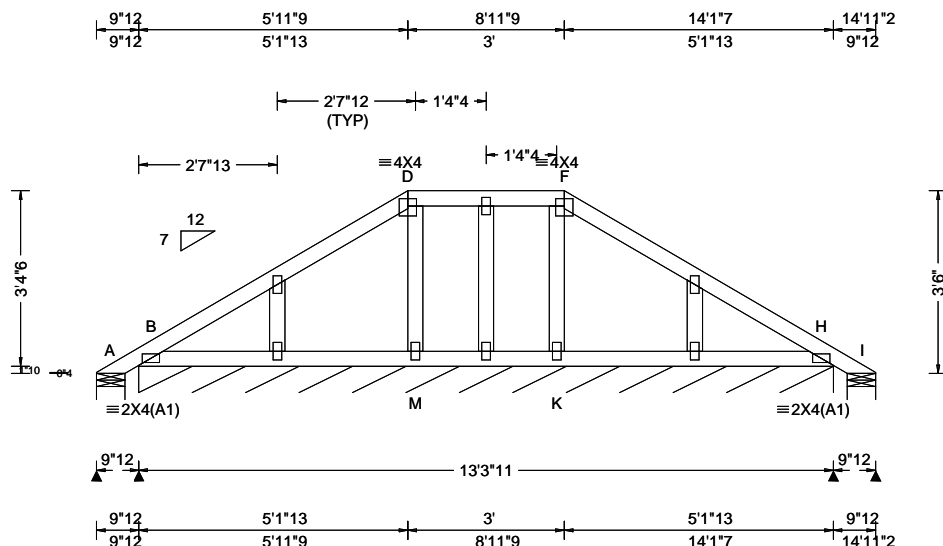
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409986 FROM: CDM	GABL Ply: 1 Qty: 2	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: P02	Cust: R 215 JRef: 1X3f2150001 T17 DrwNo: 063.21.1322.58147 / YK 03/04/2021
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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: 19.06 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.000 N 999 360 VERT(CL): 0.001 N 999 240 HORZ(LL): 0.001 G - - HORZ(TL): 0.001 G - - Creep Factor: 2.0 Max TC CSI: 0.080 Max BC CSI: 0.034 Max Web CSI: 0.033 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 4 /- /- /52 /47 /93 B* 72 /- /- /51 /8 /- I 4 /- /- /5 /0 /- Wind reactions based on MWFRS A Brg Width = 6.5 Min Req = 1.5 B Brg Width = 159 Min Req = - I Brg Width = 6.5 Min Req = 1.5 Bearings A, B, & I are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 12-9-10.



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03/04/2021

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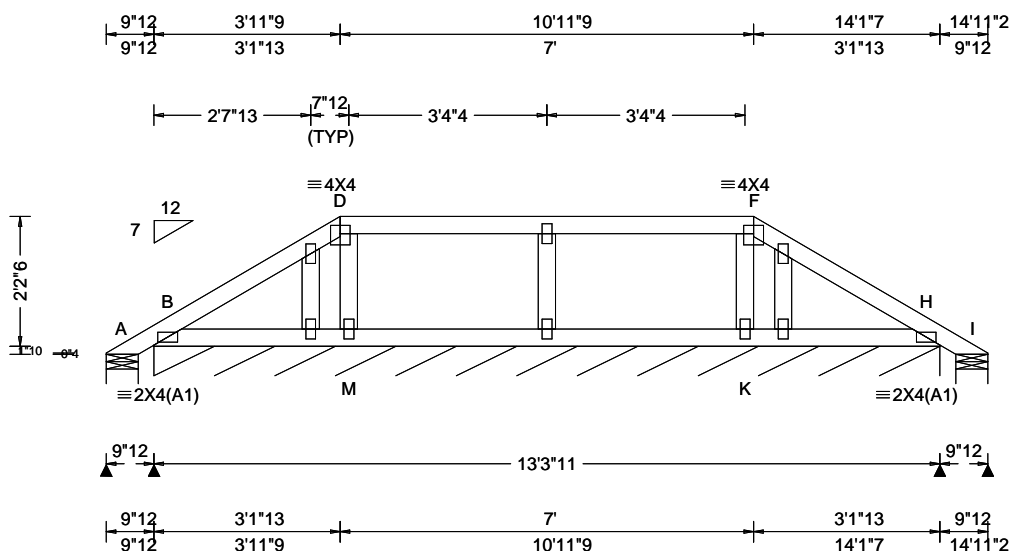
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409987 FROM: CDM	GABL Ply: 1 Qty: 2	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: P03	Cust: R 215 JRef: 1X3f2150001 T15 DrwNo: 063.21.1322.59613 / YK 03/04/2021
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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: 18.48 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 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): 0.000 E 999 360 VERT(CL): 0.001 E 999 240 HORZ(LL): 0.000 J - - HORZ(TL): 0.001 J - - Creep Factor: 2.0 Max TC CSI: 0.177 Max BC CSI: 0.045 Max Web CSI: 0.053 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A - /-2 /- /36 /33 /60 B* 73 /- /- /49 /9 /- I - /-2 /- /5 /3 /- Wind reactions based on MWFRS A Brg Width = 6.5 Min Req = 1.5 B Brg Width = 159 Min Req = - I Brg Width = 6.5 Min Req = 1.5 Bearings A, B, & I are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Purlins

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

Wind

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

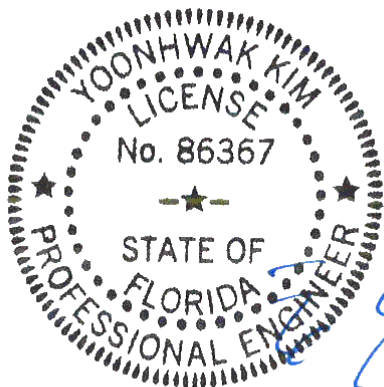
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 11-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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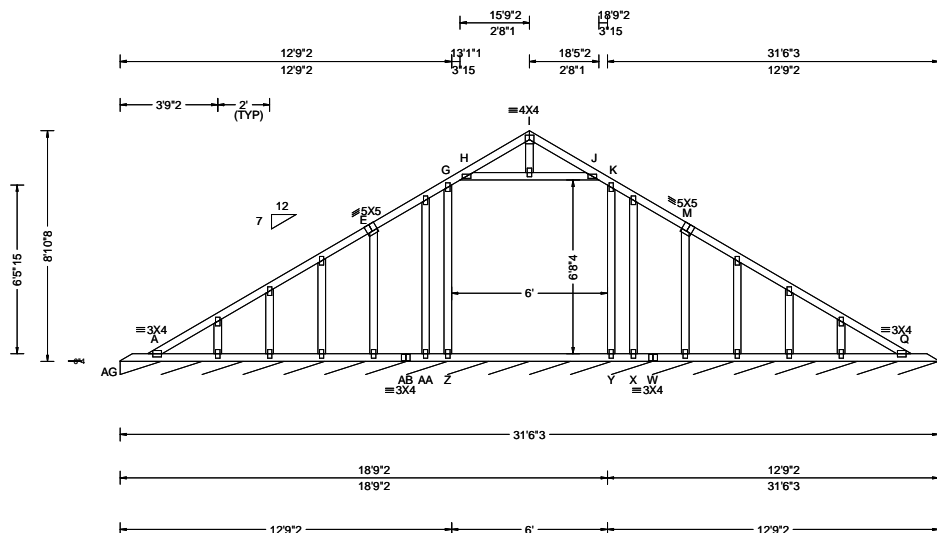
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409988 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: V1	Cust: R 215 JRef: 1X3f2150001 T47 DrwNo: 063.21.1323.00920 / YK 03/04/2021
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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: 16.13 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.15 ft Loc. from endwall: not in 6.63 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/defl L/# VERT(LL): 0.015 I 999 360 VERT(CL): 0.033 I 999 240 HORZ(LL): 0.008 L - - HORZ(TL): 0.017 L - - Creep Factor: 2.0 Max TC CSI: 0.295 Max BC CSI: 0.411 Max Web CSI: 0.395 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R* 134 -/- /- /54 /24 /11 AA -/-128 X -/-128 Wind reactions based on MWFRS R Brg Width = 378 Min Req = - Bearing AG is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - E 160 -451 I - J 103 -515 E - G 251 -414 J - K 260 -488 G - H 260 -488 K - M 251 -414 H - I 103 -515 M - Q 128 -451

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

Wind

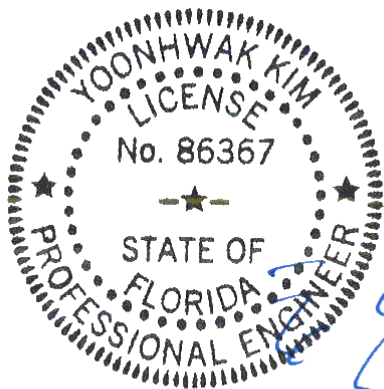
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

The overall height of this truss excluding overhang is 8-10-8.

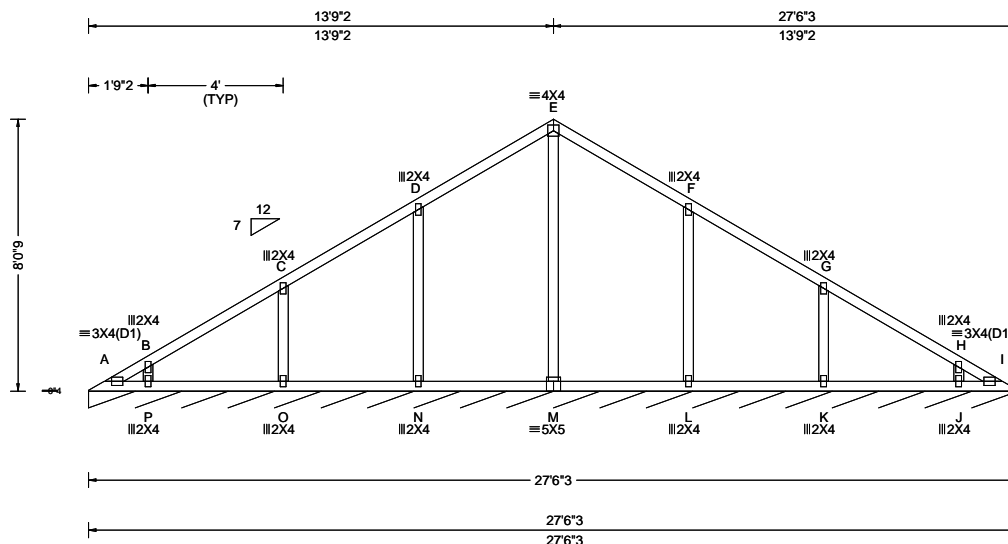


FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

SEQN: 409989 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: V2	Cust: R 215 JRef: 1X3f2150001 T49 DrwNo: 063.21.1323.01633 / YK 03/04/2021
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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: 16.89 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 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): 0.001 F 999 360 VERT(CL): 0.003 F 999 240 HORZ(LL): -0.002 D - - HORZ(TL): 0.004 D - - Creep Factor: 2.0 Max TC CSI: 0.206 Max BC CSI: 0.112 Max Web CSI: 0.211 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I* 83 /- /- /43 /13 /7 Wind reactions based on MWFRS I Brg Width = 330 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

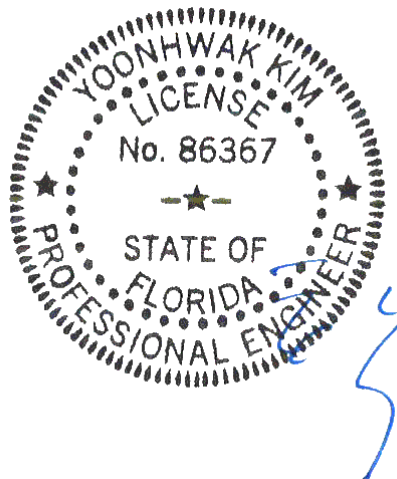
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 8'-0".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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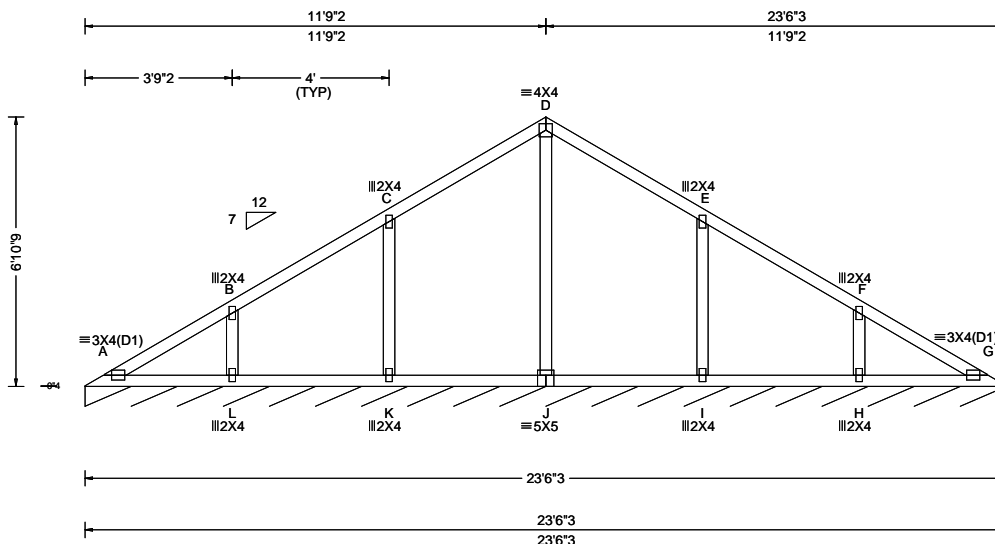
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ALPINE
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SEQN: 409990 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: V3	Cust: R 215 JRef: 1X3f2150001 T50 DrwNo: 063.21.1323.02410 / YK 03/04/2021
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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: 17.47 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/defl L/# VERT(LL): 0.005 L 999 360 VERT(CL): 0.010 L 999 240 HORZ(LL): 0.002 L - - HORZ(TL): 0.003 L - - Creep Factor: 2.0 Max TC CSI: 0.207 Max BC CSI: 0.135 Max Web CSI: 0.191 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G* 83 /- /- /43 /13 /7 Wind reactions based on MWFRS G Brg Width = 282 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

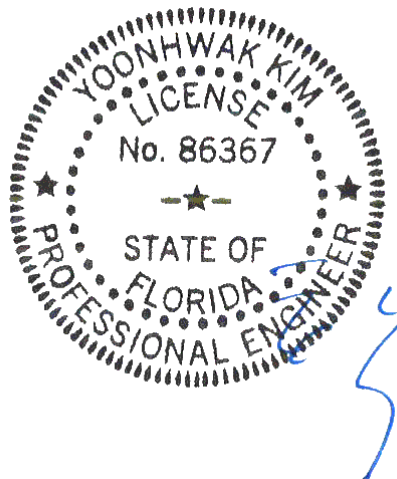
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 6'-10"-9".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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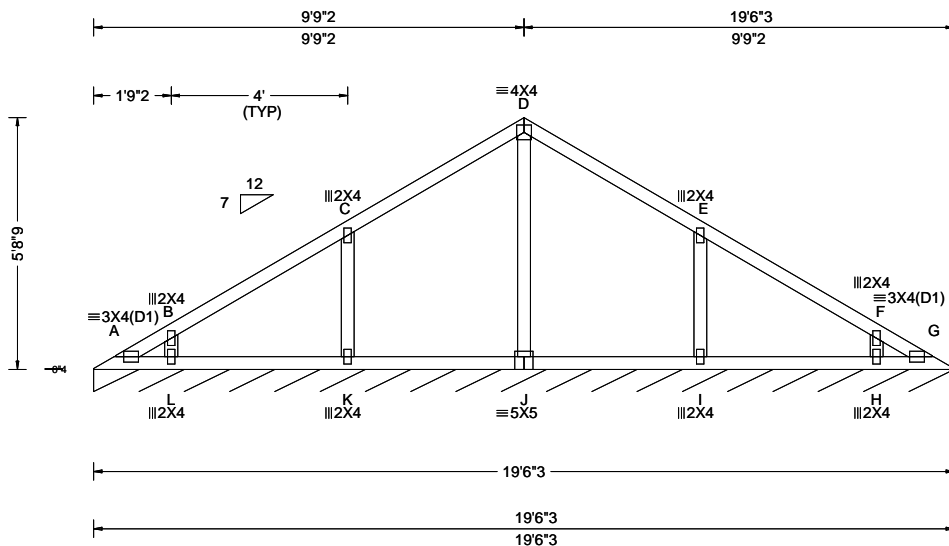
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ALPINE
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SEQN: 409991 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: V4	Cust: R 215 JRRef: 1X3f2150001 T51 DrwNo: 063.21.1323.03250 / YK 03/04/2021
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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: 18.05 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/defl L/# VERT(LL): 0.001 D 999 360 VERT(CL): 0.002 D 999 240 HORZ(LL): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.215 Max BC CSI: 0.114 Max Web CSI: 0.103 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G* 83 /- /- /43 /12 /7 Wind reactions based on MWFRS G Brg Width = 234 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

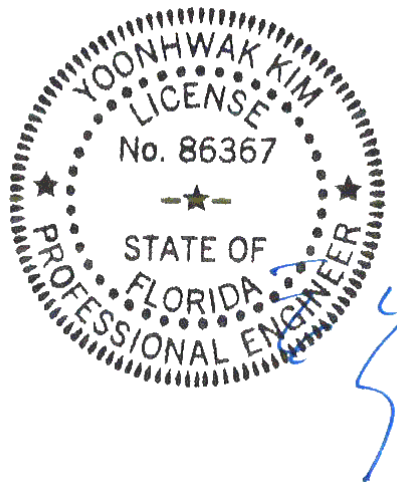
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 5'-8"-9".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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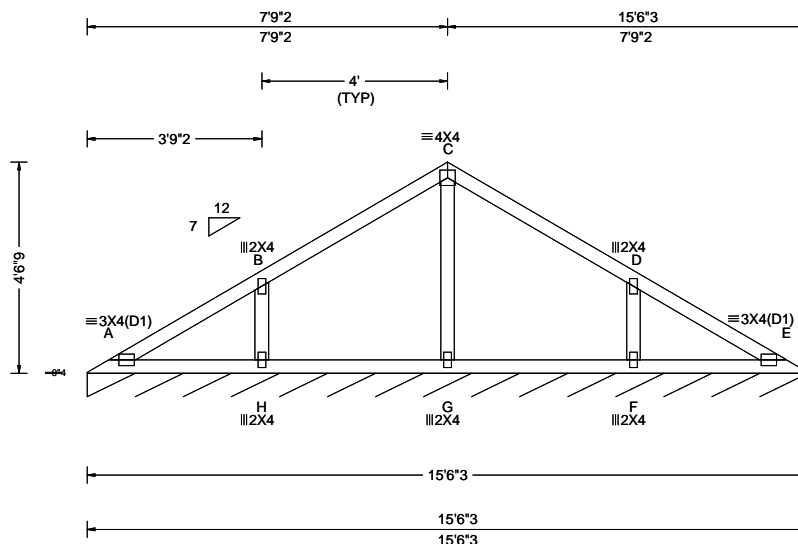
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ALPINE
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6750 Forum Drive
Suite 305
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SEQN: 409992 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: V5	Cust: R 215 JRRef: 1X3f2150001 T52 DrwNo: 063.21.1323.04063 / YK 03/04/2021
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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: 18.64 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/defl L/# VERT(LL): 0.004 H 999 360 VERT(CL): 0.008 H 999 240 HORZ(LL): -0.002 F - - HORZ(TL): 0.003 F - - Creep Factor: 2.0 Max TC CSI: 0.284 Max BC CSI: 0.131 Max Web CSI: 0.088 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E* 83 /- /- /43 /12 /7 Wind reactions based on MWFRS E Brg Width = 186 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

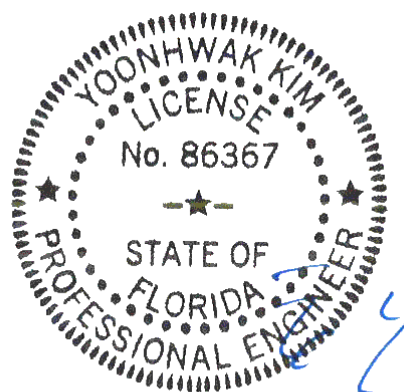
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 4-6-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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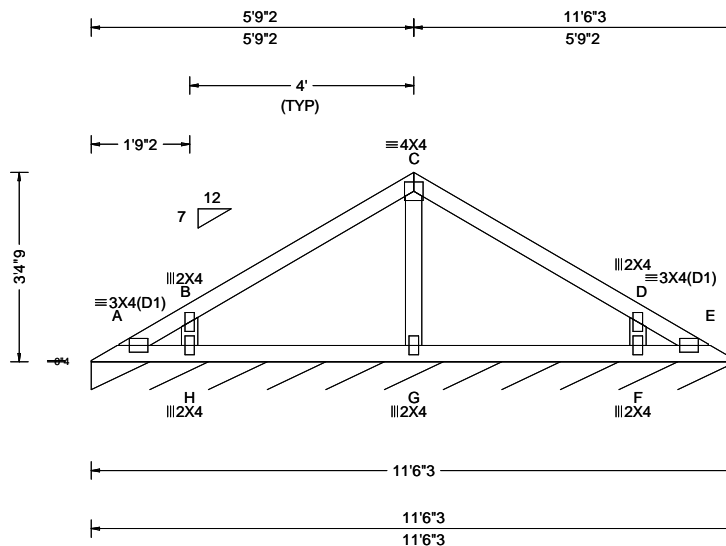
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409993 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: V6	Cust: R 215 JRef: 1X3f2150001 T53 DrwNo: 063.21.1323.05080 / YK 03/04/2021
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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: 19.22 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): 0.000 C 999 360 VERT(CL): 0.001 C 999 240 HORZ(LL): -0.000 B - - HORZ(TL): 0.001 H - - Creep Factor: 2.0 Max TC CSI: 0.204 Max BC CSI: 0.119 Max Web CSI: 0.049 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E* 83 /- /- /42 /11 /7 Wind reactions based on MWFRS E Brg Width = 138 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

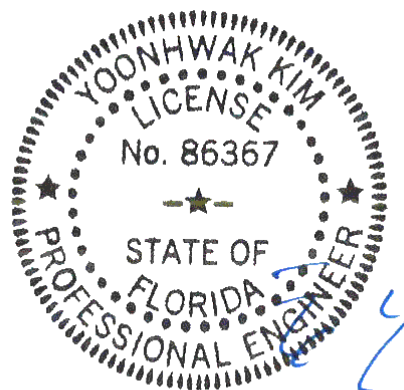
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 3'-4"-9".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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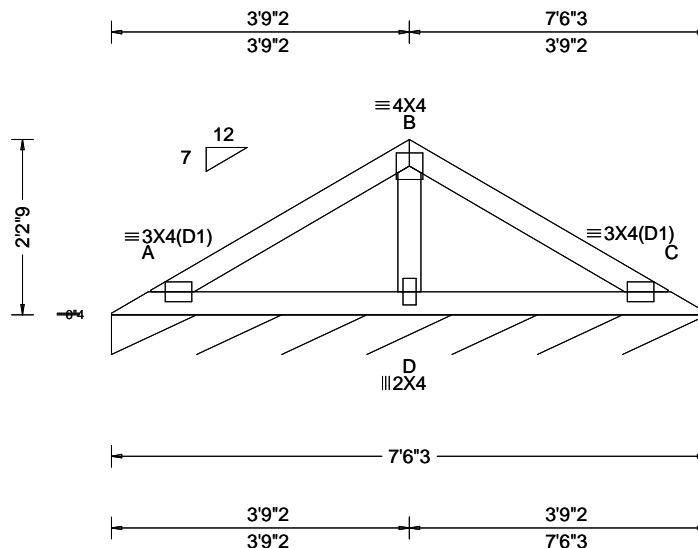
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ALPINE
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Suite 305
Orlando FL, 32821

SEQN: 409994 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: V7	Cust: R 215 JRef: 1X3f2150001 T54 DrwNo: 063.21.1323.06040 / YK 03/04/2021
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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: 19.80 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/defl L/# VERT(LL): 0.005 D 999 360 VERT(CL): 0.011 D 999 240 HORZ(LL): -0.003 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.186 Max BC CSI: 0.150 Max Web CSI: 0.065 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 83 /- /- /41 /10 /7 Wind reactions based on MWFRS C Brg Width = 90.2 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

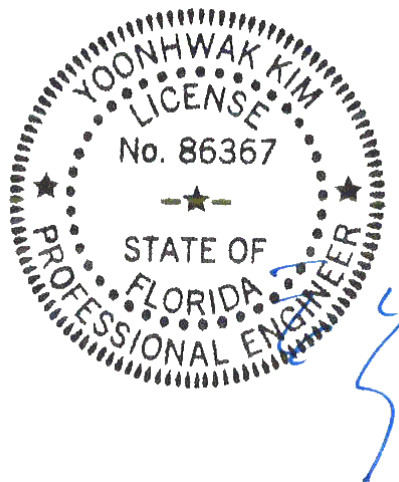
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 22-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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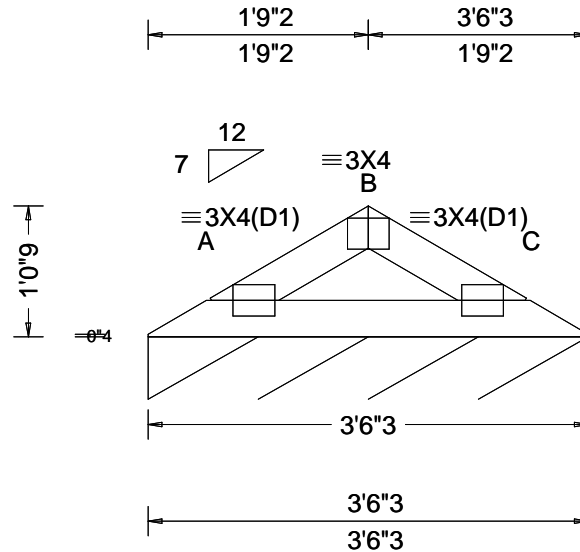
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409995 FROM: CDM	VAL Ply: 1 Qty: 1	Job Number: 20-4565 Senn Res.- 52" Ceiling fan in both Garages Truss Label: V8	Cust: R 215 JRef: 1X3f2150001 T55 DrwNo: 063.21.1323.08690 / YK 03/04/2021
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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: 20.39 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h 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/defl L/# VERT(LL): 0.002 999 360 VERT(CL): 0.005 999 240 HORZ(LL): -0.001 - - HORZ(TL): 0.002 - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.085 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 82 /- /- /37 /- /5 Wind reactions based on MWFRS C Brg Width = 42.2 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

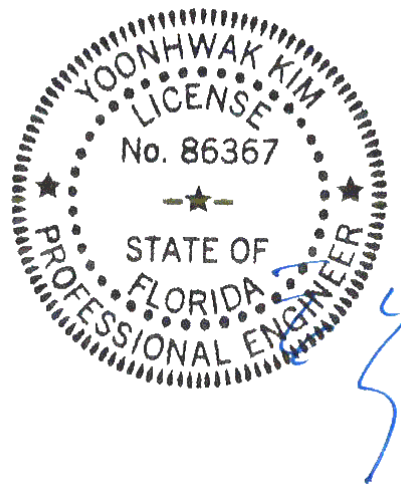
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

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

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.
The overall height of this truss excluding overhang is 1'-0"-9".



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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

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

CLR Reinforcing Member Substitution

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

Notes:

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

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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

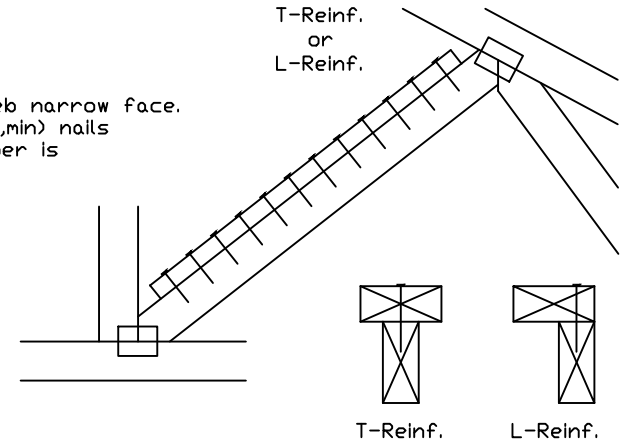
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(X)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(X)

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.

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

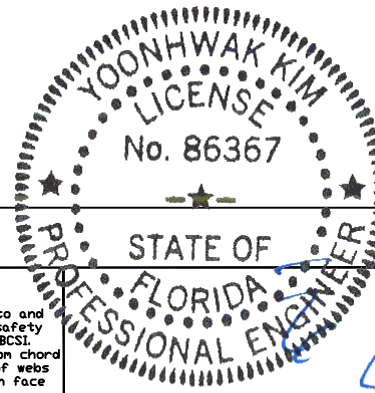
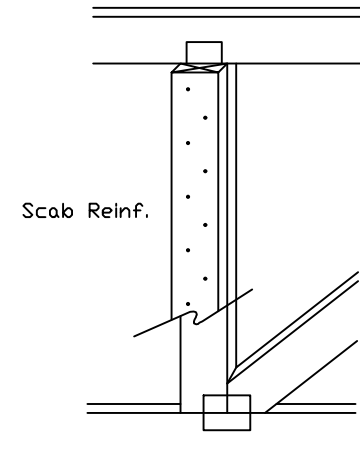
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



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For more information see this job's general notes page and these web sites: 01/02/2019
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org



514 Earth City Expressway
Suite 242
Earth City, MO 63045

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			

Yoonhwak Kim, FL PE #86367

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

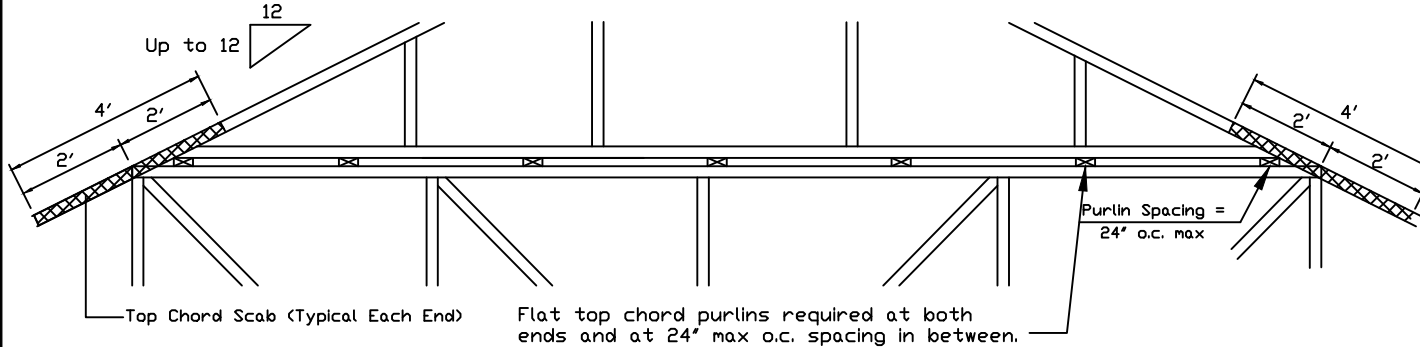
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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

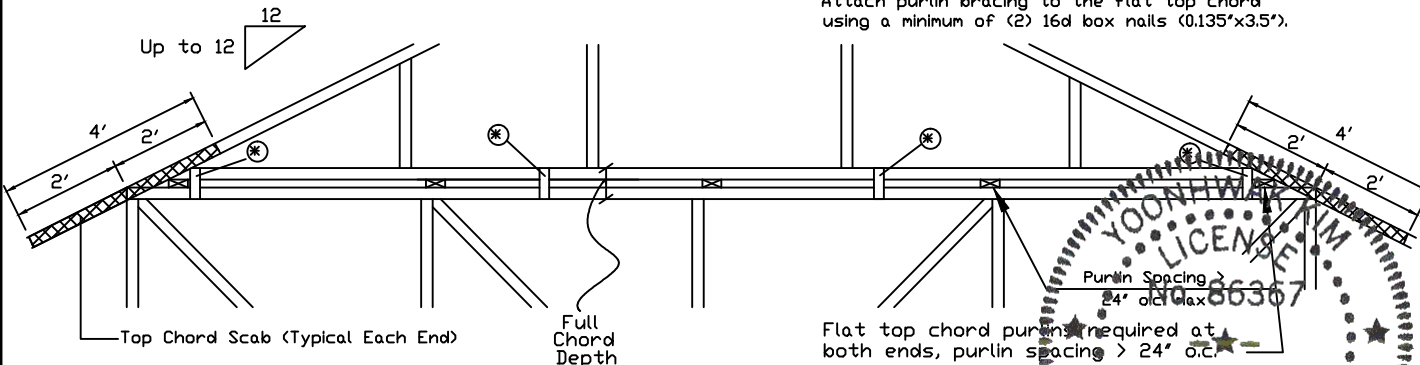


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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

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

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



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

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

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

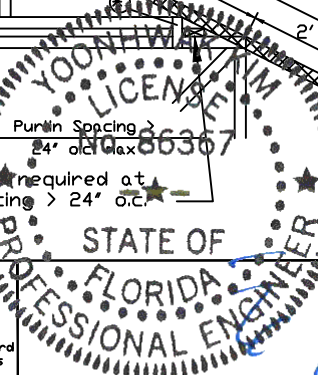
Trulox Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120x1.375 nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.
APA Rated Gusset 8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.
2x4 Vertical Scabs 2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.
28PB Wave Piggyback Plate One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120x1.375 nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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



13723 Riverport Drive
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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



REF PIGGYBACK
DATE 01/02/2018
DRWG PB160160118

SPACING 24.0"

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

Bracing Group Species and Grades:

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

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

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

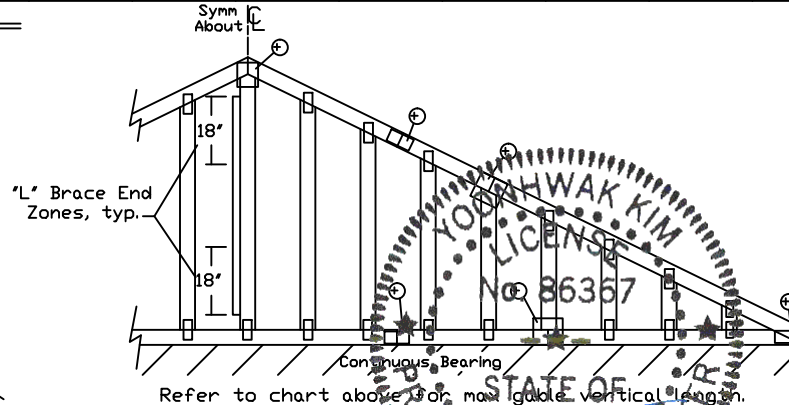
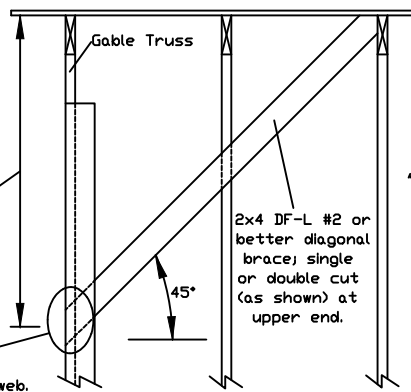
+ Refer to common truss design for peak, splice, and heel plates.

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

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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



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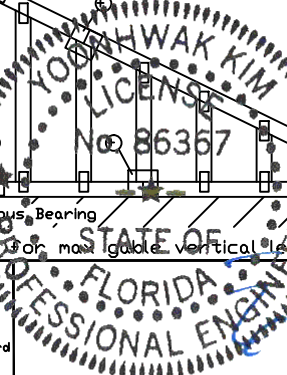
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For more information see this job's general notes page and these web sites:
 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcaindustry.org; ICC: www.iccsafe.org



514 Earth City Expressway
 Suite 242
 Earth City, MO 63045



MAX. TOT. LD. 60 PSF

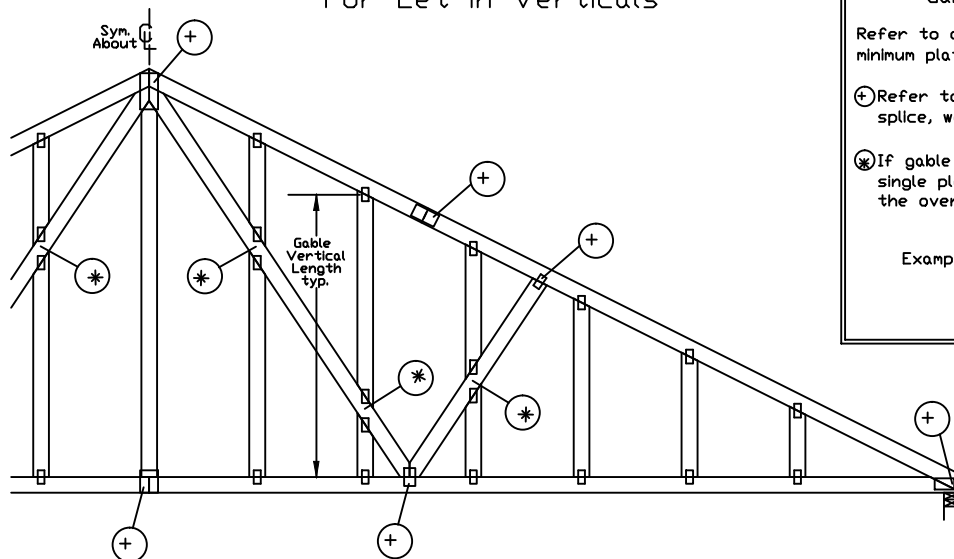
MAX. SPACING 24.0"

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

Gable Detail For Let-in Verticals



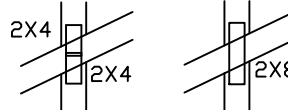
Gable Truss Plate Sizes

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

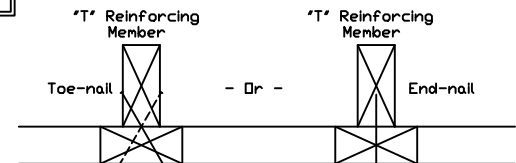
(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



"T" Reinforcement Attachment Detail



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

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

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

Web Length Increase w/ "T" Brace

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

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

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

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 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"x3",min) Nails at 4' o.c. plus

(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",min) Toenails at 4' o.c. plus

(4) toenails in the top and bottom chords.

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

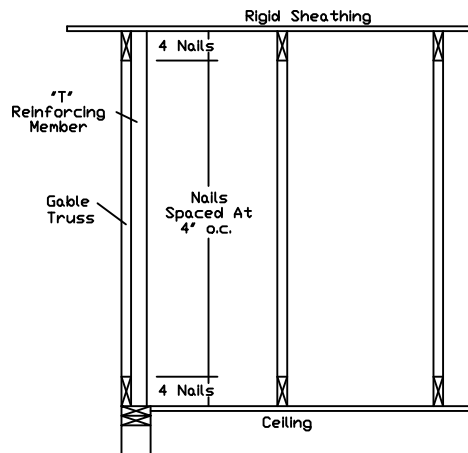
ASCE 7-05 Gable Detail Drawings

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

ASCE 7-10 & 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.



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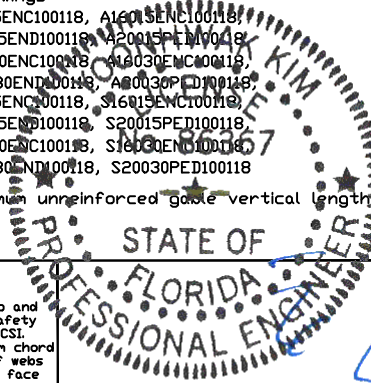
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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org



514 Earth City Expressway
Suite 242
Earth City, MO 63045



REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

PE 00000000 078, Yoonhwak Kim, FL PE #86367

Gable Stud Reinforcement Detail

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

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

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

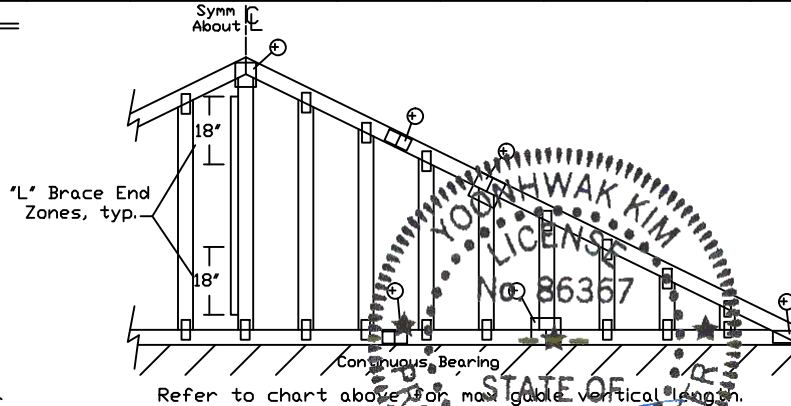
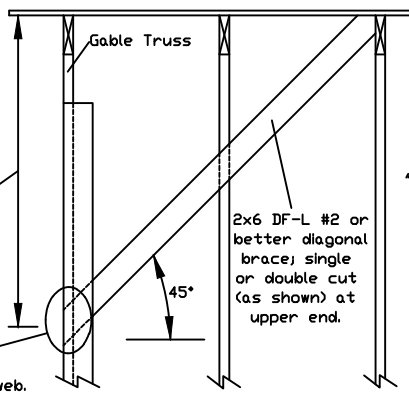
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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

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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

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

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

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

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

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

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For more information see this job's general notes page and these web sites:

ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org #278, Yoonhwak Kim, FL PE #86367



514 Earth City Expressway
Suite 242
Earth City, MO 63045

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14030

DATE 01/26/2018

DRWG A14030ENC160118

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

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
 Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
 Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

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

Bottom chord may be square or pitched cut as shown.

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

All plates shown are Alpine Wave Plates.

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

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

Or

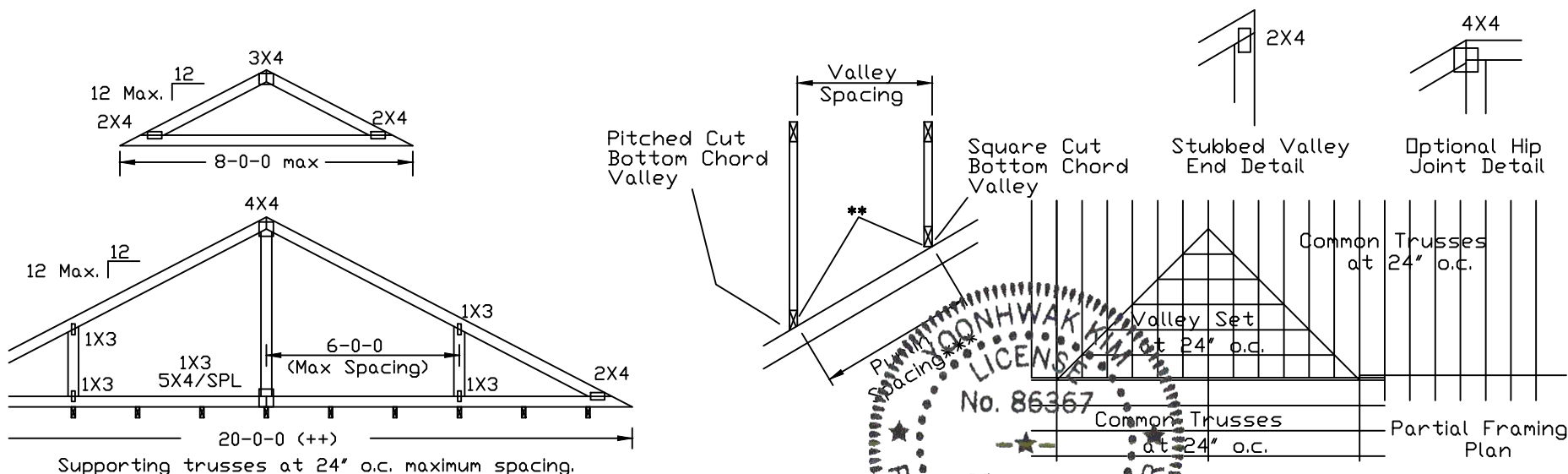
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

Or

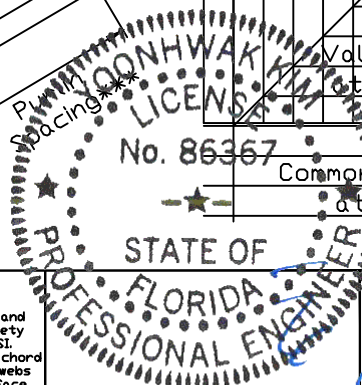
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

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

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



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 For more information see this Job's general notes page and these web sites: 3/04/2021
 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



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

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

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
 Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
 Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
 (2) 16d box (0.135" x 3.5") nails toe-nailed for
 ASCE 7-16, 30' Mean Height, Enclosed Building, Exp. C,
 Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on
 supporting truss material at connection location:
 170 mph for SP (G = 0.55, min.),
 155 mph for DF-L (G = 0.50, min.), or
 120 mph for HF & SPF (G = 0.42, min.).

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

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

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

All plates shown are Alpine Wave Plates.

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

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

Or

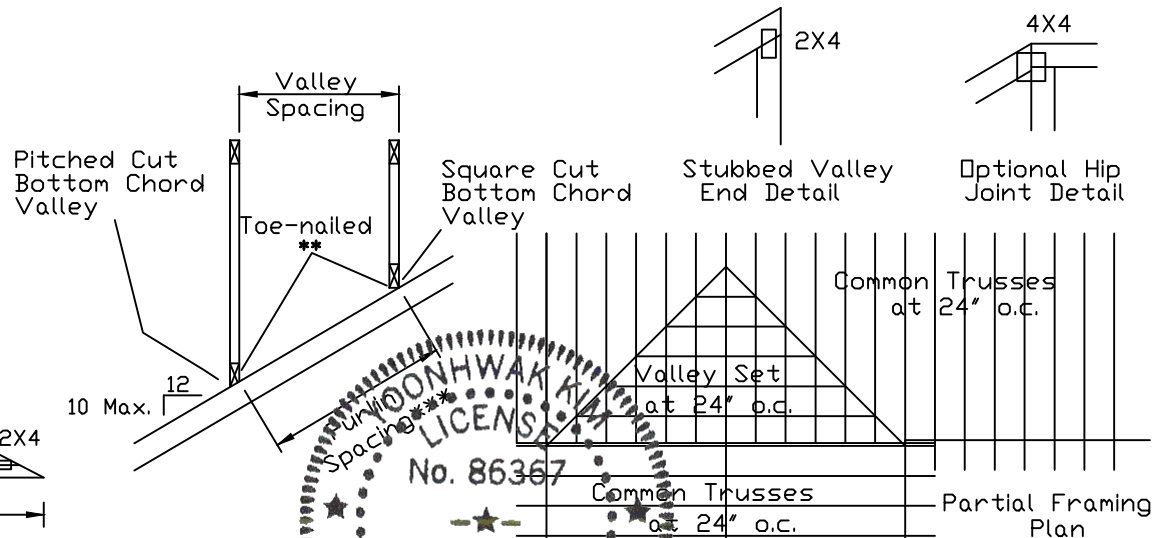
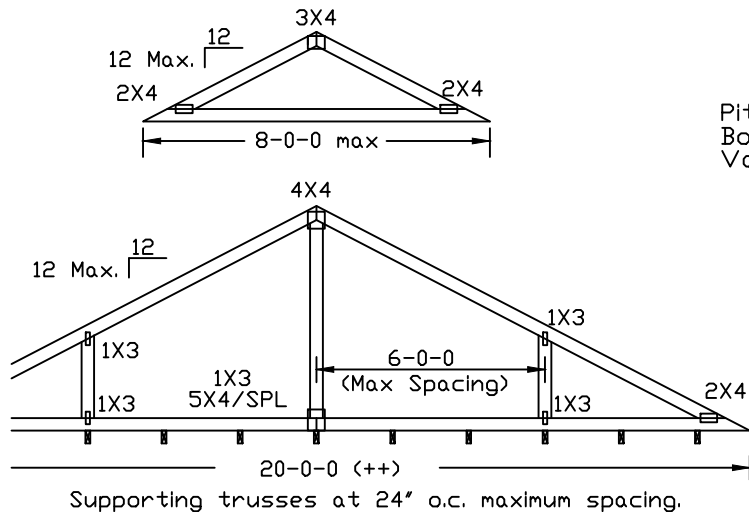
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

Or

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

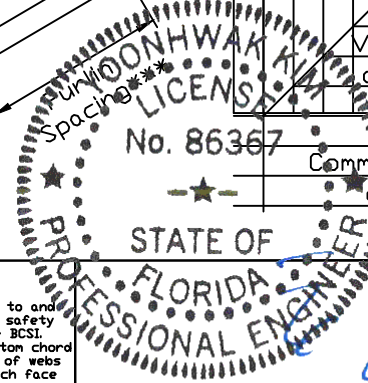
*** Note that the purlin spacing for bracing the top chord of the truss
 beneath the valley is measured along the slope of the top chord.

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



514 Earth City Expressway
 Suite 242
 Earth City, MO 63045

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