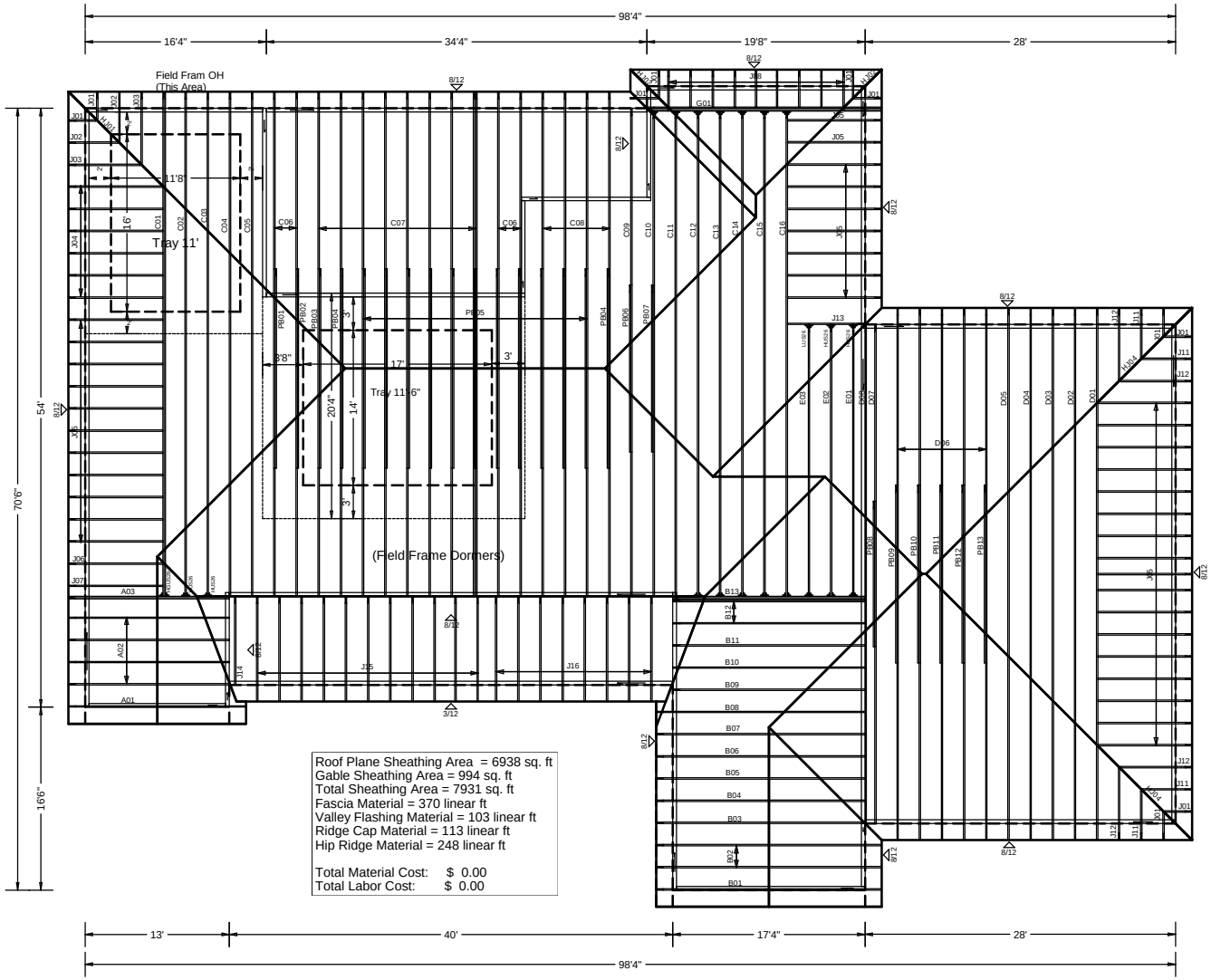


W.B. Howland Truss Co.
610 11th St. SW
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (Fax)
howlandtruss@gmail.com

ROOF PITCH: 8/12
OVERHANG: 18"
CEILING: 10' w/Tray
EXT. WALLS: 4"
LOADING: 40psf
WIND LOAD: 130mph
EXPOSURE: C

DATE: 10/4/21

Truss to Truss Connectors:
(1) HGUS28-2
(4) HUS26
(2) LUS24
(1) LUS6

Roof Plane Sheathing Area = 6938 sq. ft
Gable Sheathing Area = 994 sq. ft
Total Sheathing Area = 7931 sq. ft
Fascia Material = 370 linear ft
Valley Flashing Material = 103 linear ft
Ridge Cap Material = 113 linear ft
Hip Ridge Material = 248 linear ft

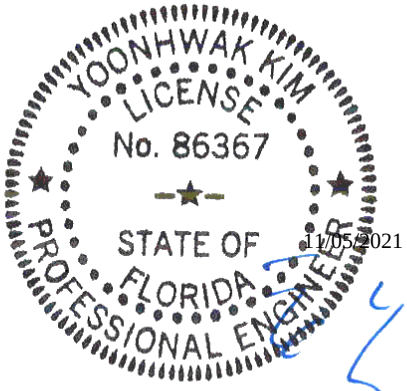
Total Material Cost: $ 0.00
Total Labor Cost: $ 0.00

JOB #: 21-6130

Job Name: RICHARD & ANN WRIGHT
Customer: Plumb Level Construction
Designer: Kelly Caudill
ADDRESS: Lot 11 Oaks
SALESMAN: BW
: <Not Found>

JOB NO:
21-6130

PAGE NO:
1 OF 1



11/05/2021

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ALPINE AN ITW COMPANY

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

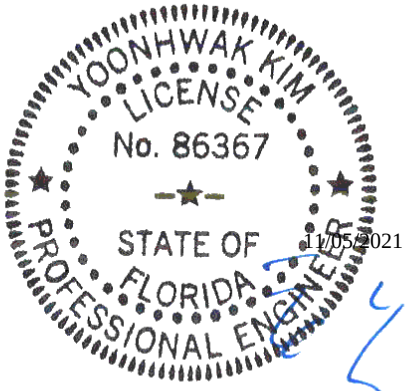
Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

Site Information:	**Page 1:**
Customer: W. B. Howland Company, Inc.	*Job Number:* 21-6130
Job Description: RICHARD & ANN WRIGHT	
Address: Lot 11 Oaks, Lake City, FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	*IntelliVIEW Version:* 21.01.01A *JRef #:* 1Xa92150006
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 130 *Building Type:* Closed	*Design Loading (psf):* 40.00

This package contains general notes pages, 76 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	309.21.1155.48970	A01	2	309.21.1155.49861	A02
3	309.21.1155.50189	A03	4	309.21.1155.49533	B01
5	309.21.1155.49783	B02	6	309.21.1155.50988	B03
7	309.21.1155.49564	B04	8	309.21.1155.50252	B05
9	309.21.1155.51017	B06	10	309.21.1155.50486	B07
11	309.21.1155.50627	B08	12	309.21.1155.50768	B09
13	309.21.1155.50128	B10	14	309.21.1155.50392	B11
15	309.21.1155.49706	B12	16	309.21.1155.51252	B13
17	309.21.1155.51189	C01	18	309.21.1155.50408	C02
19	309.21.1155.48892	C03	20	309.21.1155.48971	C04
21	309.21.1155.49970	C05	22	309.21.1155.50017	C06
23	309.21.1155.48753	C07	24	309.21.1155.48595	C08
25	309.21.1155.49673	C09	26	309.21.1155.49517	C10
27	309.21.1155.51159	C11	28	309.21.1155.49971	C12
29	309.21.1155.48752	C13	30	309.21.1155.50378	C14
31	309.21.1155.49798	C15	32	309.21.1155.51128	C16
33	309.21.1155.49565	D03	34	309.21.1155.50877	D05
35	309.21.1259.12360	D01	36	309.21.1155.49595	D02
37	309.21.1155.51049	D04	38	309.21.1155.50799	D06
39	309.21.1155.50909	D07	40	309.21.1155.50613	D08
41	309.21.1155.50205	E01	42	309.21.1155.49205	E02
43	309.21.1155.49457	E03	44	309.21.1259.46677	G01
45	309.21.1155.50581	HJ01	46	309.21.1155.51220	HJ02
47	309.21.1155.51205	HJ04	48	309.21.1155.49940	J01
49	309.21.1155.50439	J02	50	309.21.1155.50517	J03
51	309.21.1155.51033	J04	52	309.21.1155.50346	J05



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ALPINE AN ITW COMPANY

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

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	*Job Number:* 21-6130
Job Description: RICHARD & ANN WRIGHT	
Address: Lot 11 Oaks, Lake City, FL	

Item	Drawing Number	Truss
53	309.21.1155.49830	J05
55	309.21.1155.50362	J06
57	309.21.1155.50674	J08
59	309.21.1155.50612	J12
61	309.21.1155.50049	J14
63	309.21.1155.50705	J16
65	309.21.1155.50173	PB02
67	309.21.1155.50845	PB04
69	309.21.1155.50018	PB06
71	309.21.1155.50816	PB08
73	309.21.1155.51174	PB10
75	309.21.1155.48893	PB12
77	A14015ENC160118	
79	BRCLBSUB0119	
81	PB160160118	

Item	Drawing Number	Truss
54	309.21.1155.50642	J05
56	309.21.1155.50736	J07
58	309.21.1155.50987	J11
60	309.21.1155.50815	J13
62	309.21.1155.50939	J15
64	309.21.1155.49689	PB01
66	309.21.1155.48754	PB03
68	309.21.1155.51095	PB05
70	309.21.1155.49456	PB07
72	309.21.1155.50330	PB09
74	309.21.1155.50220	PB11
76	309.21.1155.49815	PB13
78	A14030ENC160118	
80	GBLLETIN0118	

General Notes

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

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

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

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

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

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

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

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

General Notes (continued)

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

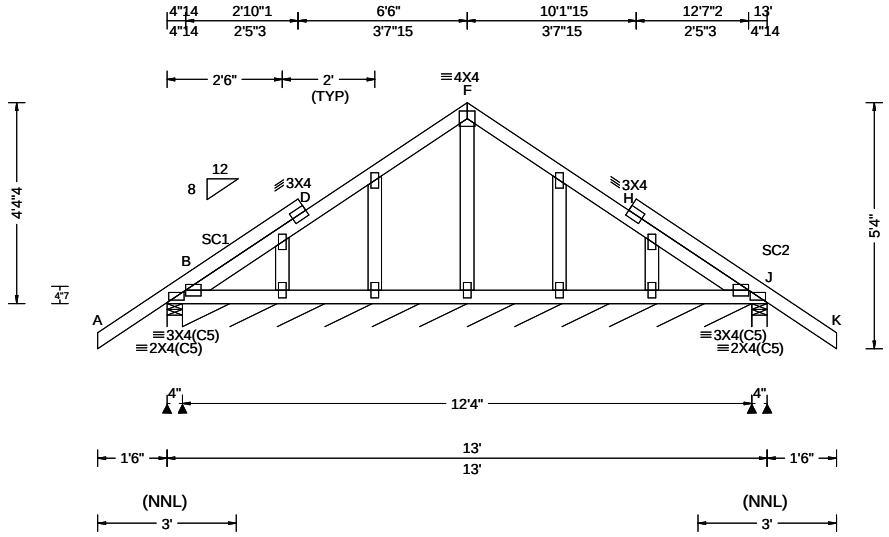
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

SEQN: 635189 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** A01	Cust: R 215 JRef:1Xa92150006 T2 / DrwNo: 309.21.1155.48970 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	H	999	240
VERT(CL): 0.003	H	999	180
HORZ(LL): 0.001	H	-	-
HORZ(TL): 0.001	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.269
Max BC CSI: 0.029
Max Web CSI: 0.036

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	273	/-	/-	/198	/53	/104
B*	61	/-	/-	/36	/-	/-
J	273	/-	/-	/213	/53	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
B Brg Wid = 148 Min Req = -
J Brg Wid = 4.0 Min Req = 1.5
Bearings B, B, & J are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Wind

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

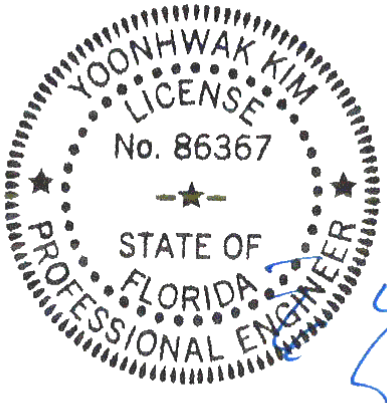
Wind loading based on both gable and hip roof types.

Additional Notes

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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

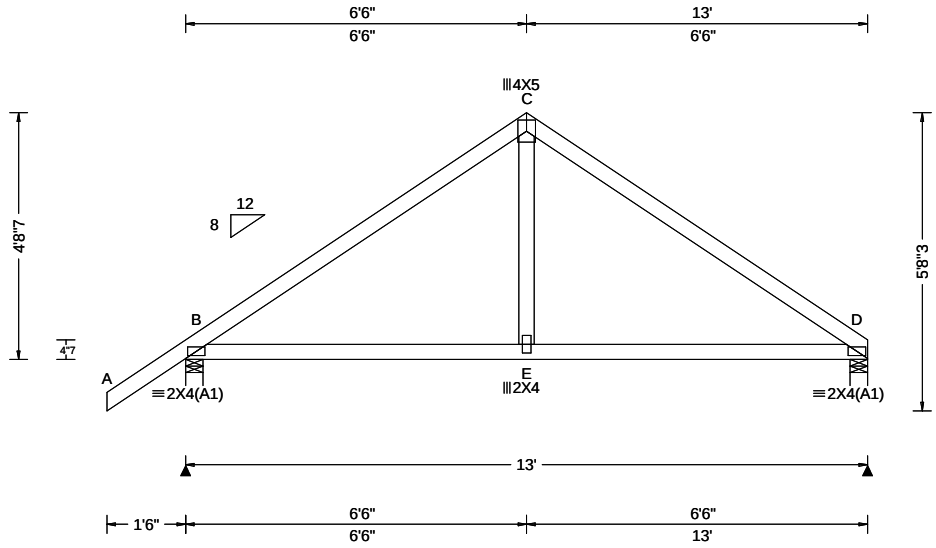
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

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

SEQN: 635191 / COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** A02	Cust: R 215 JRef:1Xa92150006 T1 / DrwNo: 309.21.1155.49861 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	D	999	240
VERT(CL): 0.013	D	999	180
HORZ(LL): 0.005	D	-	-
HORZ(TL): 0.008	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.448
Max BC CSI: 0.408
Max Web CSI: 0.112

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	657	/-	/-	/415	/112	/153
D	539	/-	/-	/321	/82	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
D Brg Wid = 4.0 Min Req = 1.5
Bearings B & D are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	321	- 644	C - D	325	- 640

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - E	451	- 132	E - D	451	- 132

Lumber

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

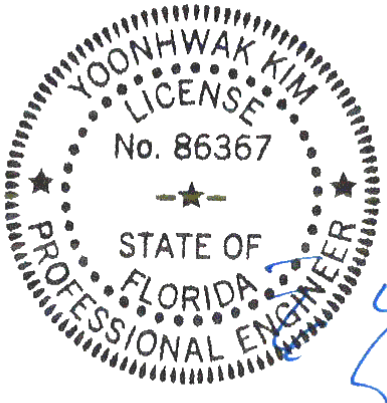
Wind

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 4-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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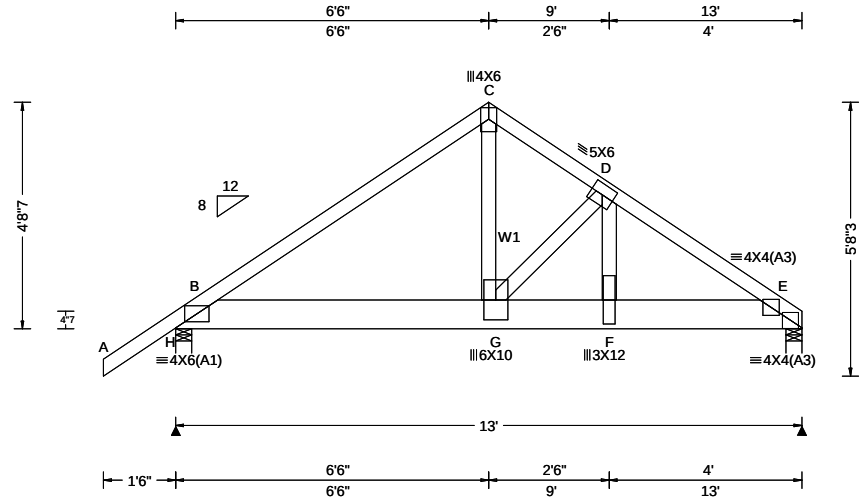
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 635470 / COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** A03	Cust: R 215 JRef:1Xa92150006 T41 DrwNo: 309.21.1155.50189 / YK 11/05/2021

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.059 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.119 F 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.012 E - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.023 E - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.493
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.406
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.715
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	3619	/-	/-	/-	/892	/-
E	6089	/-	/-	/-	/1345	/-

Wind reactions based on MWFRS
H Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 4.0 Min Req = 2.5
Bearings H & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	747	-2968	D - E	1011	-4322
C - D	758	-3040			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	2427	-606	F - E	3575	-832
G - F	3531	-824			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - G	3165	-776	D - F	1783	-337
G - D	290	-1506			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x8 SP 2400f-2.0E;
Webs: 2x4 SP #3; W1 2x4 SP #2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.50" 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	64 plf at	-1.50 to	64 plf at	6.50
TC: From	32 plf at	6.50 to	32 plf at	9.06
TC: From	64 plf at	9.06 to	64 plf at	13.00
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	7.06
BC: From	10 plf at	7.06 to	10 plf at	13.00

BC: 4696 lb Conc. Load at 7.06
BC: 1971 lb Conc. Load at 9.06
BC: 1986 lb Conc. Load at 11.06

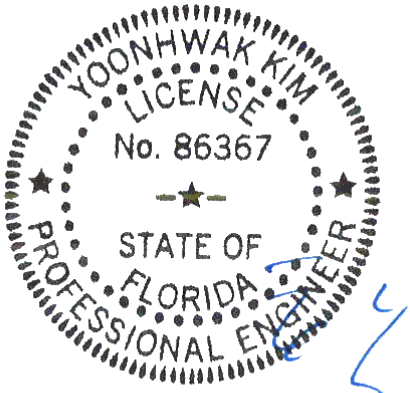
Wind

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 4-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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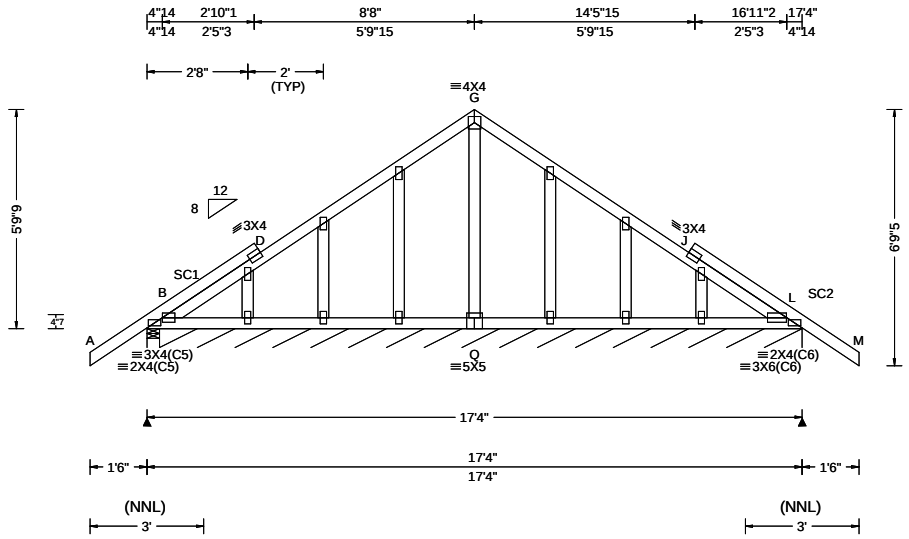
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 635194 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B01	Cust: R 215 JRef:1Xa92150006 T9 / DrwNo: 309.21.1155.49533 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	L	999	240
VERT(CL): 0.003	L	999	180
HORZ(LL): 0.001	J	-	-
HORZ(TL): 0.001	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.238
Max BC CSI: 0.075
Max Web CSI: 0.069

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	272	/-	/-	/201	/51	/104
L*	82	/-	/-	/47	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
L Brg Wid = 204 Min Req = -
Bearings B & B are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Wind

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

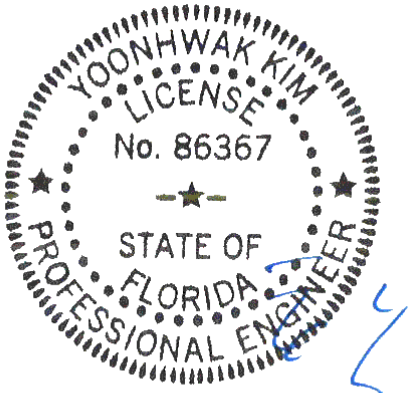
Wind loading based on both gable and hip roof types.

Additional Notes

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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ALPINE
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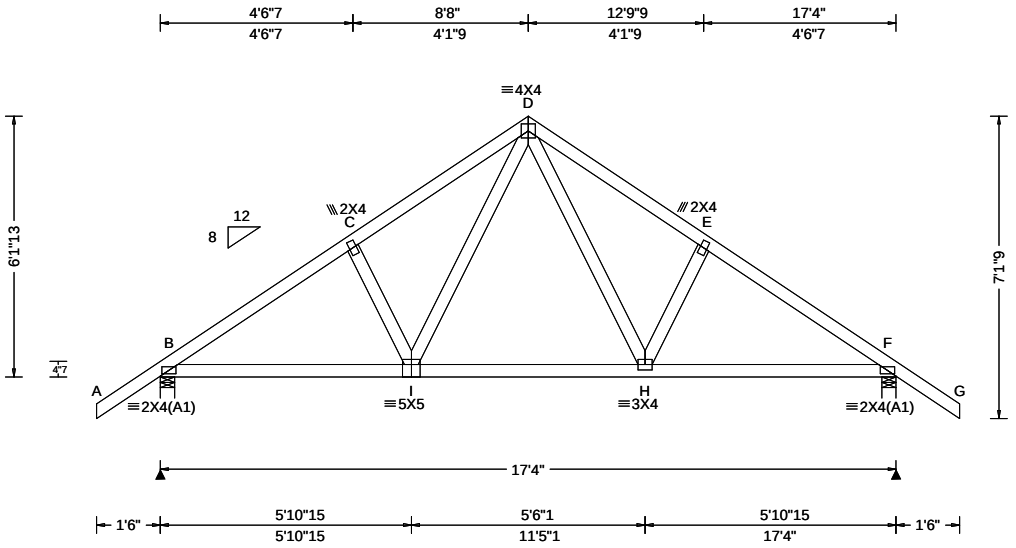
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635197 / COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B02	Cust: R 215 JRef:1Xa92150006 T8 / DrwNo: 309.21.1155.49783 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.021	H	999	240
VERT(CL): 0.044	H	999	180
HORZ(LL): 0.009	F	-	-
HORZ(TL): 0.019	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.326
Max Web CSI: 0.140

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	832	/-	/-	/520	/138	/213
F	832	/-	/-	/520	/138	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
F Brg Wid = 4.0 Min Req = 1.5
Bearings B & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	385	- 983	D - E	446	- 867
C - D	447	- 866	E - F	385	- 984

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	754	- 162	H - F	754	- 175
I - H	516	- 24			

Lumber

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

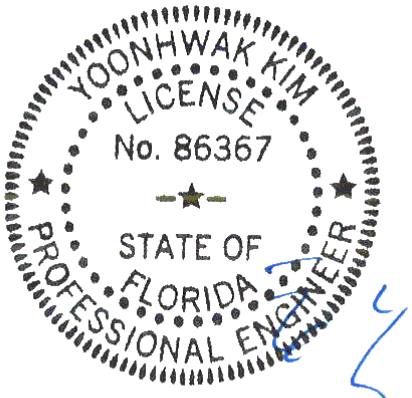
Wind

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 6-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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ALPINE
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6750 Forum Drive
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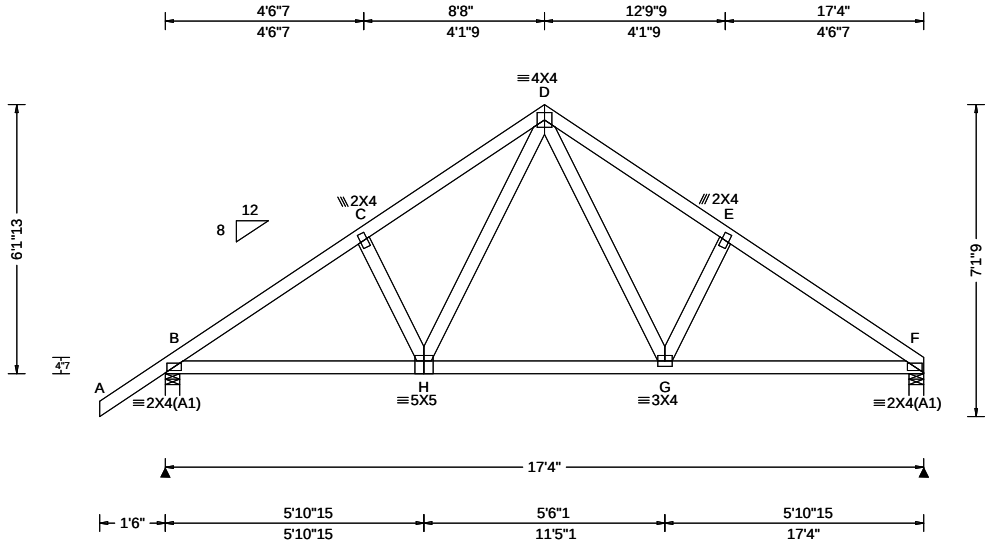
SEQN: 635200 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B03	Cust: R 215 JRef:1Xa92150006 T10 / DrwNo: 309.21.1155.50988 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.021	H	999	240
VERT(CL): 0.043	H	999	180
HORZ(LL): 0.009	F	-	-
HORZ(TL): 0.019	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.215
Max BC CSI: 0.336
Max Web CSI: 0.138

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	837	/-	/-	/520	/140	/193
F	723	/-	/-	/428	/111	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
F Brg Wid = 4.0 Min Req = 1.5
Bearings B & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	192	- 992	D - E	248	- 893
C - D	240	- 875	E - F	200	- 1007

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	761	- 104	G - F	781	- 102
H - G	524	- 9			

Lumber

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

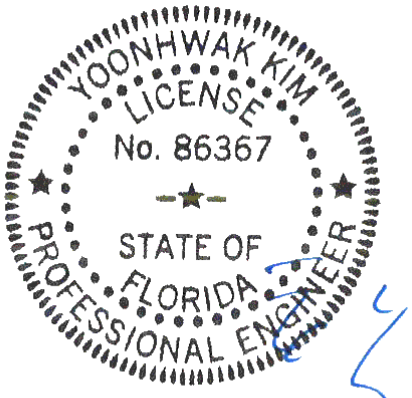
Wind

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 6-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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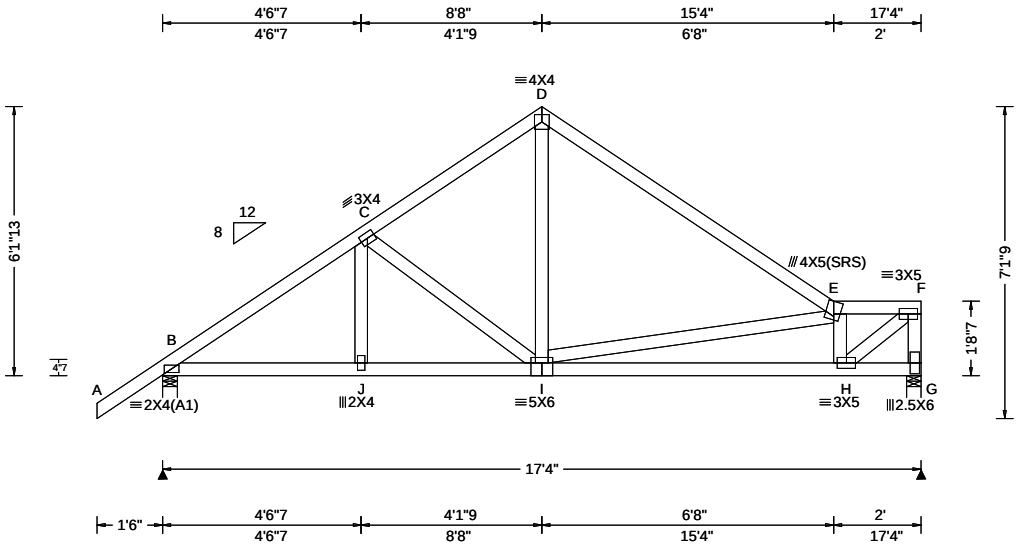
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635203 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B04	Cust: R 215 JRef:1Xa92150006 T11 DrwNo: 309.21.1155.49564 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.023	I	999	240
VERT(CL): 0.047	I	999	180
HORZ(LL): 0.011	G	-	-
HORZ(TL): 0.022	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.531
Max BC CSI: 0.469
Max Web CSI: 0.444

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	843	/-	/-	/525	/139	/177
G	717	/-	/-	/390	/116	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
G Brg Wid = 4.0 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	187	- 999	D - E	195	- 798
C - D	204	- 737	E - F	225	- 900

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	761	- 145	I - H	1032	- 277
J - I	760	- 145			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - I	436	- 51	H - F	1165	- 289
I - E	226	- 474	F - G	208	- 722
E - H	263	- 652			

Lumber

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

Wind

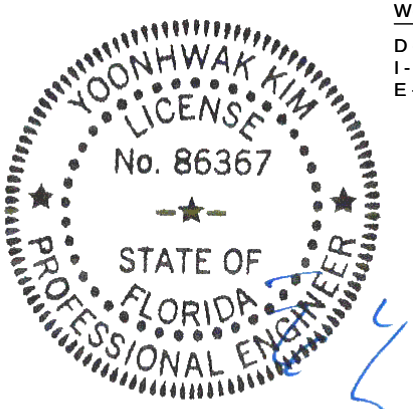
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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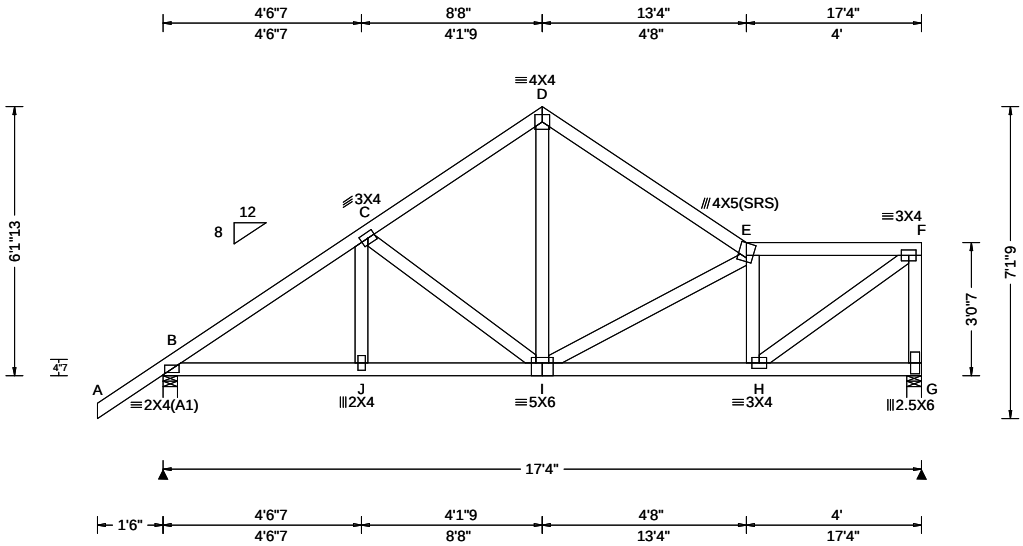
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635206 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B05	Cust: R 215 JRef:1Xa92150006 T12 DrwNo: 309.21.1155.50252 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.023	I	999	240
VERT(CL): 0.048	I	999	180
HORZ(LL): 0.009	C	-	-
HORZ(TL): 0.018	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.233
Max BC CSI: 0.275
Max Web CSI: 0.371

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	843	/-	/-	/531	/133	/173
G	717	/-	/-	/384	/126	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
G Brg Wid = 4.0 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	208	- 1006	D - E	235	- 739
C - D	228	- 727	E - F	273	- 788

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	769	- 212	I - H	840	- 299
J - I	768	- 213			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - I	449	- 129	H - F	973	- 332
E - H	251	- 493	F - G	333	- 685

Lumber

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

Wind

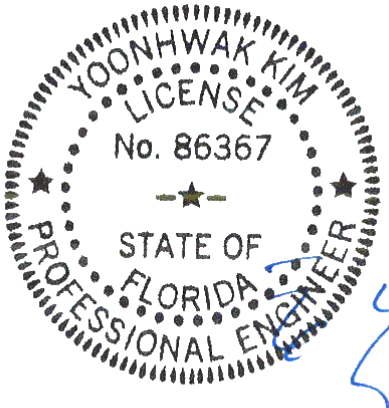
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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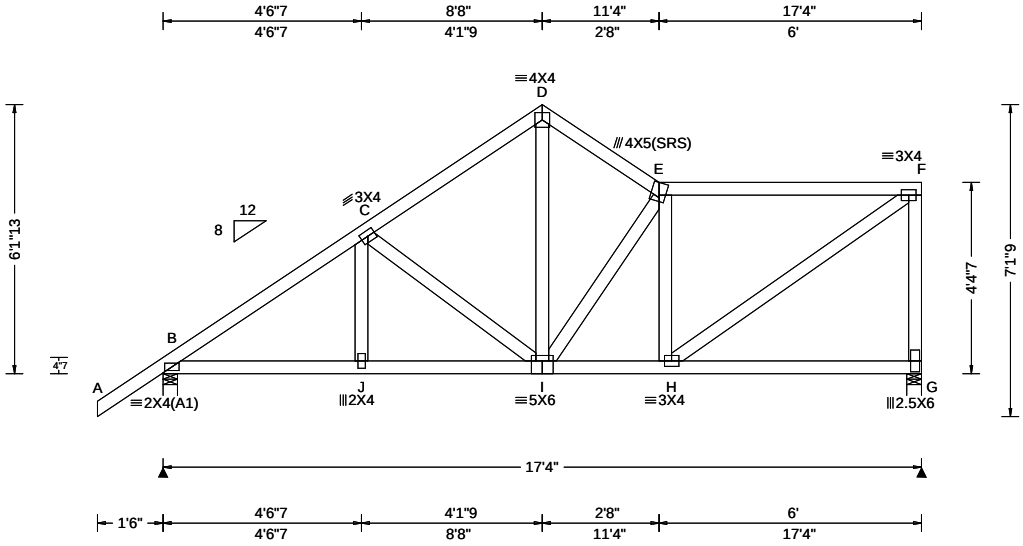
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635209 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B06	Cust: R 215 JRef:1Xa92150006 T13 / DrwNo: 309.21.1155.51017 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	I	999	240
VERT(CL): 0.050	I	999	180
HORZ(LL): 0.009	C	-	-
HORZ(TL): 0.019	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.585
Max BC CSI: 0.341
Max Web CSI: 0.362

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	843	/-	/-	/539	/125	/170
G	717	/-	/-	/394	/138	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
G Brg Wid = 4.0 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	247	- 1011	D - E	320	- 710
C - D	267	- 720	E - F	323	- 704

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	775	- 292	I - H	732	- 343
J - I	773	- 293			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - I	544	- 270	H - F	864	- 396
E - H	290	- 398	F - G	430	- 668

Lumber

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

Wind

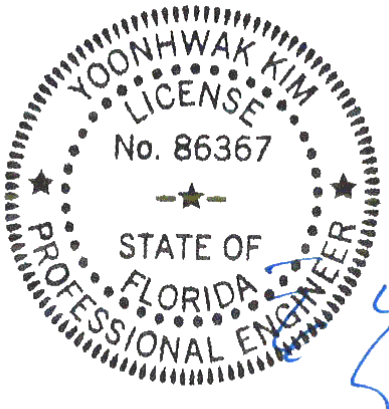
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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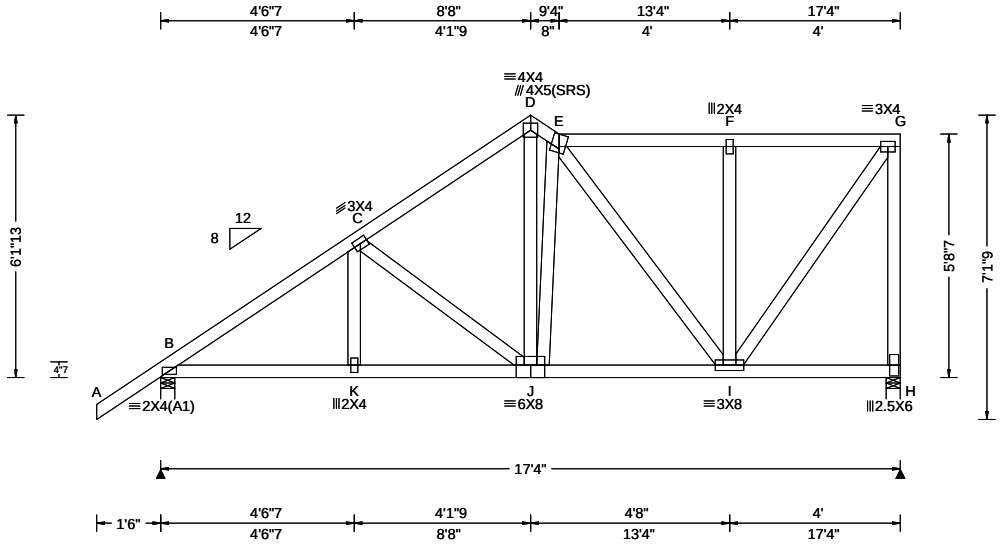
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635212 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B07	Cust: R 215 JRef:1Xa92150006 T14 DrwNo: 309.21.1155.50486 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.021	E	999	240
VERT(CL): 0.043	E	999	180
HORZ(LL): 0.008	C	-	-
HORZ(TL): 0.016	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.232
Max BC CSI: 0.257
Max Web CSI: 0.395

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	843	/-	/-	/552	/36	/168
H	717	/-	/-	/400	/122	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
H Brg Wid = 4.0 Min Req = 1.5
Bearings B & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	293	- 1008	E - F	279	- 432
C - D	316	- 725	F - G	278	- 432
D - E	346	- 614			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	771	- 378	J - I	569	- 325
K - J	770	- 379			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - J	483	- 275	G - H	497	- 684
I - G	727	- 468			

Lumber

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

Wind

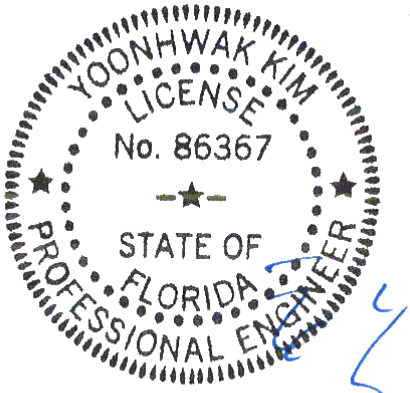
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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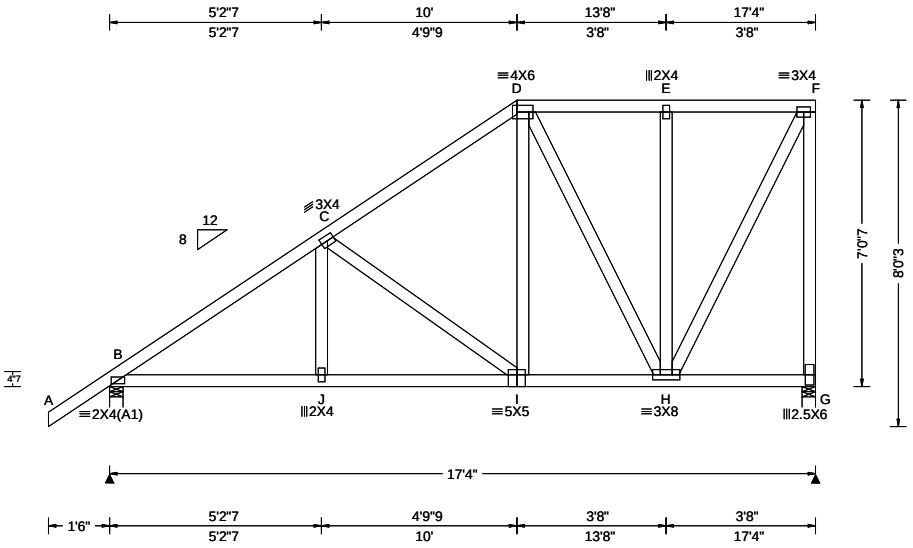
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635215 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B08	Cust: R 215 JRef:1Xa92150006 T15 / DrwNo: 309.21.1155.50627 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.019	J	999	240
VERT(CL): 0.040	J	999	180
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.016	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.248
Max BC CSI: 0.280
Max Web CSI: 0.606

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	843	/-	/-	/562	/28	/190
G	717	/-	/-	/420	/132	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
G Brg Wid = 4.0 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	237	- 995	C - D	257	- 645

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	755	- 367	I - H	461	- 267
J - I	754	- 368			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - F	672	- 435	F - G	496	- 686

Lumber

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

Wind

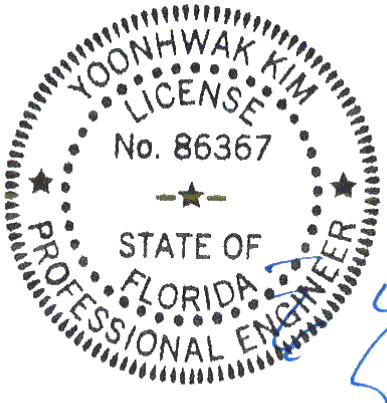
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 7-0-7.



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11/05/2021

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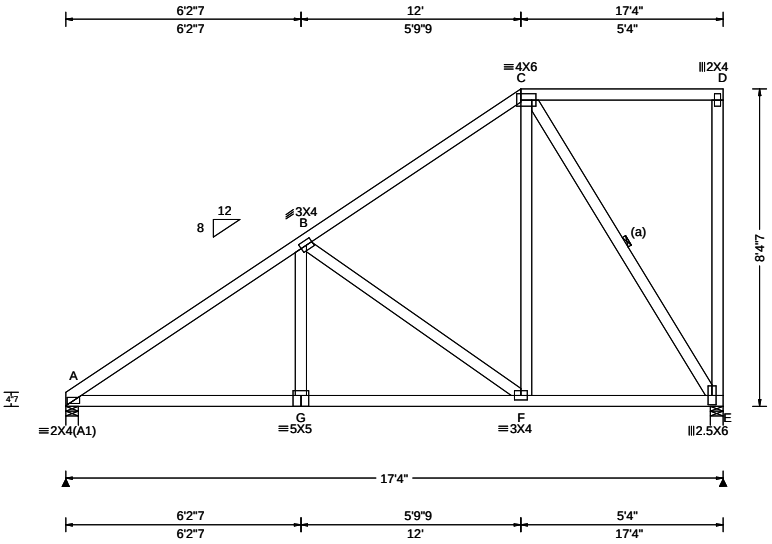
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635218 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B09	Cust: R 215 JRef:1Xa92150006 T16 / DrwNo: 309.21.1155.50768 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.020	G	999	240
VERT(CL): 0.039	G	999	180
HORZ(LL): 0.008	E	-	-
HORZ(TL): 0.017	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.366
Max Web CSI: 0.499

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	756	/-	/-	/475	/-	/206
E	798	/-	/-	/457	/133	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 4.0 Min Req = 1.5
Bearings A & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	148	- 1023	B - C	145	- 575

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	776	- 328	G - F	774	- 328

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - F	206	- 497	C - E	294	- 677
C - F	502	- 58			

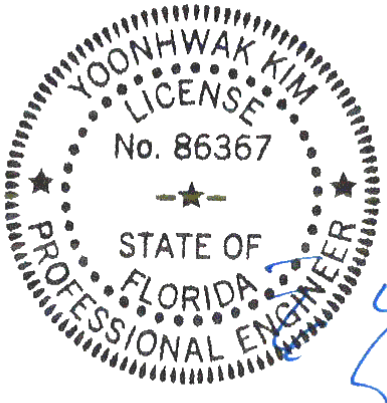
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 8-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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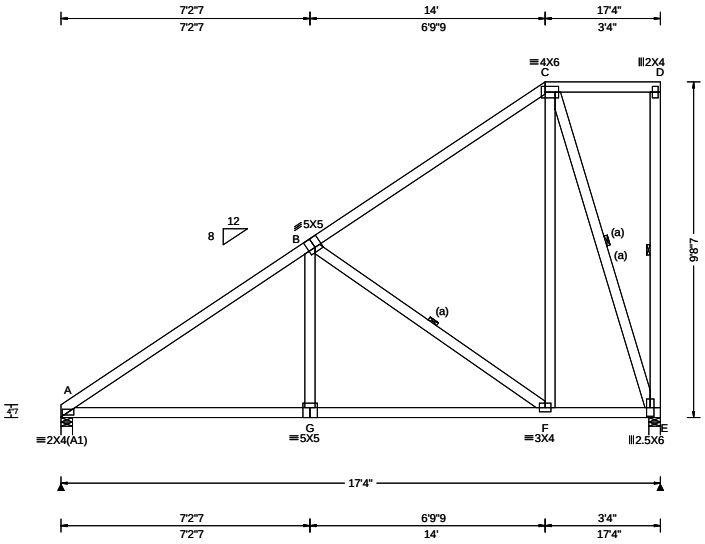
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635221 / HIPM FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B10	Cust: R 215 JRef:1Xa92150006 T7 / DrwNo: 309.21.1155.50128 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.13 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	G	999	240
VERT(CL): 0.037	G	999	180
HORZ(LL): 0.008	B	-	-
HORZ(TL): 0.016	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.665
Max BC CSI: 0.487
Max Web CSI: 0.321

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	735	/-	/-	/474	/-	/240
E	722	/-	/-	/495	/134	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 4.0 Min Req = 1.5
Bearings A & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	55	- 954	B - C	50	- 401

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	706	- 286	G - F	704	- 287

Maximum Web Forces Per Ply (lbs)

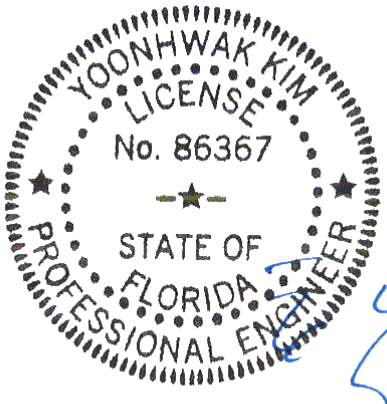
Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - F	243	- 610	C - E	271	- 632
C - F	486	- 81			

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 9-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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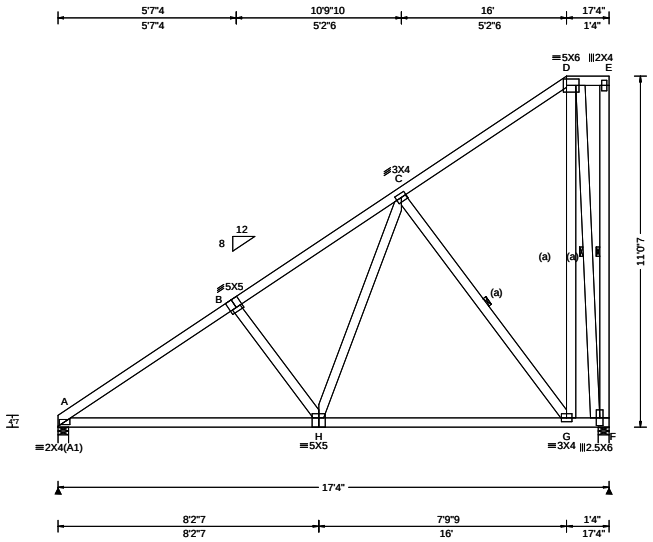
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635224 / HIPM FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B11	Cust: R 215 JRef:1Xa92150006 T6 / DrwNo: 309.21.1155.50392 / YK 11/05/2021



Loading Criteria (psf)
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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.80 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.028	H	999	240
VERT(CL): 0.054	H	999	180
HORZ(LL): 0.012	B	-	-
HORZ(TL): 0.022	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.368
Max BC CSI: 0.594
Max Web CSI: 0.531

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	783	/-	/-	/467	/-	/277
F	815	/-	/-	/539	/138	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.5
F Brg Wid = 4.0 Min Req = 1.5
Bearings A & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	- 1071	B - C	23	- 876

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	820	- 309	H - G	482	- 177

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - C	526	- 75	D - G	774	- 118
C - G	249	- 631	D - F	241	- 886

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

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
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 11-0-7.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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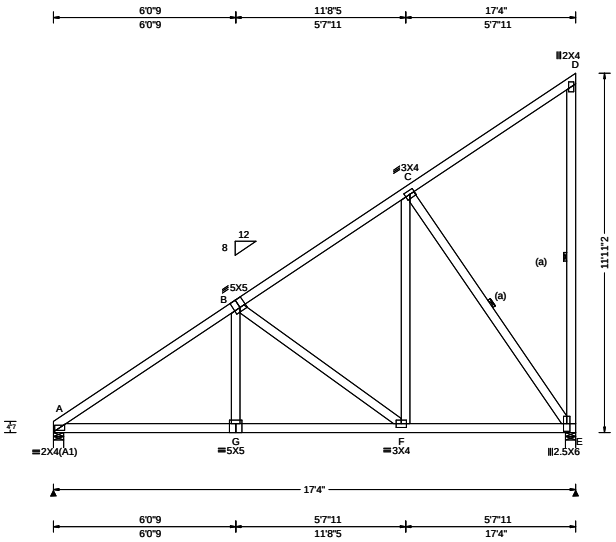
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635227 / MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B12	Cust: R 215 JRef:1Xa92150006 T4 / DrwNo: 309.21.1155.49706 / YK 11/05/2021



Loading Criteria (psf)
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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.24 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.019	G	999	240
VERT(CL): 0.038	G	999	180
HORZ(LL): 0.008	E	-	-
HORZ(TL): 0.017	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.513
Max BC CSI: 0.379
Max Web CSI: 0.394

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	760	/-	/-	/459	/-	/302
E	802	/-	/-	/572	/139	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 4.0 Min Req = 1.5
Bearings A & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	- 1025	B - C	0	- 616

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	774	- 292	F - E	419	- 146
G - F	772	- 292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - F	182	- 428	C - E	253	- 725
F - C	479	- 43			

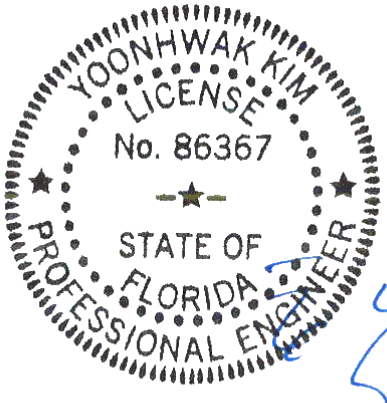
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
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 11-11-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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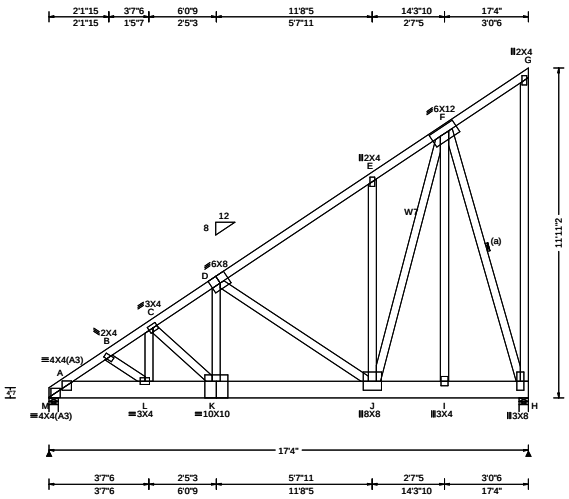
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635472 / MONO FROM: CDM	Ply: 3 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** B13	Cust: R 215 JRef:1Xa92150006 T39 / DrwNo: 309.21.1155.51252 / YK 11/05/2021

3 Complete Trusses Required



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.24 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.086	K	999	240
VERT(CL): 0.171	K	999	180
HORZ(LL): -0.047	G	-	-
HORZ(TL): 0.093	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.310
Max BC CSI: 0.968
Max Web CSI: 0.913

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	8235	/-	/-	/-	/772	/-
H	7553	/-	/-	/-	/1028	/-

Wind reactions based on MWFRS
M Brg Wid = 4.0 Min Req = 3.2
H Brg Wid = 4.0 Min Req = 3.0
Bearings M & 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.
A - B	428	- 4322	D - E	243	- 1832
B - C	421	- 4306	E - F	235	- 1803
C - D	408	- 3824			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - L	3585	- 352	J - I	743	- 98
L - K	3526	- 347	I - H	746	- 99
K - J	3072	- 330			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - C	603	- 6	J - F	2881	- 355
C - K	13	- 496	F - I	418	- 71
K - D	2129	- 156	F - H	313	- 2368
D - J	171	- 1937			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x8 SP #2;
Webs: 2x4 SP #3; W7 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 3.50" o.c. (Each Row)
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	64 plf at	0.00 to	64 plf at	12.27
TC: From	32 plf at	12.27 to	32 plf at	17.33
BC: From	20 plf at	0.00 to	20 plf at	2.27
BC: From	10 plf at	2.27 to	10 plf at	17.33

BC: 2148 lb Conc. Load at 2.27
BC: 2147 lb Conc. Load at 4.27
BC: 1998 lb Conc. Load at 6.27
BC: 1838 lb Conc. Load at 8.27
BC: 2878 lb Conc. Load at 10.27
BC: 1178 lb Conc. Load at 12.27
BC: 1204 lb Conc. Load at 14.27
BC: 1253 lb Conc. Load at 16.27

Wind

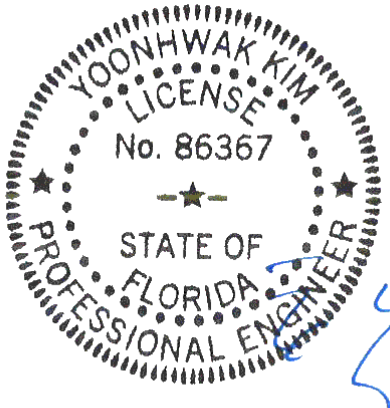
Wind loads and reactions based on MWFRS.

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 11-11-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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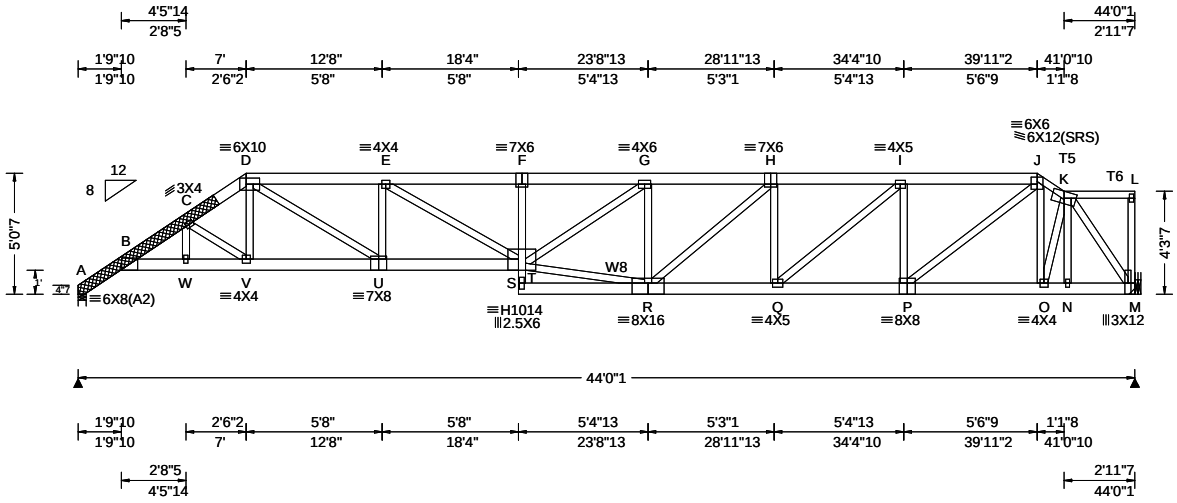
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635468 / SPEC FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C01	Cust: R 215 JRef:1Xa92150006 T49 / DrwNo: 309.21.1155.51189 / YK 11/05/2021

2 Complete Trusses Required



Loading Criteria (psf)

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 Criteria

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: 4.40 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.427	F	999	240
VERT(CL): 0.856	F	612	180
HORZ(LL): 0.200	M	-	-
HORZ(TL): 0.402	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.847
Max BC CSI: 0.382
Max Web CSI: 0.950

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	4332	/-	/-	/-	/1108	/-
M	4696	/-	/-	/-	/1384	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 2.0
M Brg Wid = -
Bearing A 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	306	- 1197	F - G	1906	- 7030
B - C	1207	- 4728	G - H	1478	- 5445
C - D	1206	- 4697	H - I	1341	- 4900
D - E	1525	- 5741	I - J	1035	- 3733
E - F	1913	- 7058	J - K	620	- 2174

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - W	4602	- 1172	Q - P	3819	- 1064
W - V	4586	- 1168	P - O	1891	- 544
V - U	3905	- 1005	O - N	1660	- 485
U - S	5828	- 1554	N - M	1661	- 487
R - Q	4950	- 1359			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
W - C	147	- 526	R - H	666	- 160
C - V	204	- 852	H - Q	283	- 777
D - V	1174	- 229	Q - I	1453	- 372
D - U	2183	- 618	I - P	460	- 1370
U - E	361	- 1032	P - J	2420	- 644
E - S	1442	- 419	J - O	197	- 624
S - G	1856	- 498	O - K	917	- 227
S - R	5454	- 1480	K - M	805	- 2747
G - R	464	- 1396			

Lumber

Top chord: 2x6 SP 2400f-2.0E; T5,T6 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W8 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.

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 64 plf at 0.00 to 64 plf at 7.00
TC: From 32 plf at 7.00 to 32 plf at 39.93
TC: From 64 plf at 39.93 to 64 plf at 44.00
BC: From 20 plf at 1.80 to 20 plf at 7.03
BC: From 10 plf at 7.03 to 10 plf at 44.00
TC: 473 lb Conc. Load at 7.03
TC: 207 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06
TC: 193 lb Conc. Load at 19.06,21.06,23.06,25.06 27.06,29.06,31.06,33.06,35.06,37.06,39.06
TC: 127 lb Conc. Load at 41.06
BC: 474 lb Conc. Load at 7.03
BC: 106 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06
BC: 131 lb Conc. Load at 19.06,21.06,23.06,25.06 27.06,29.06,31.06,33.06,35.06,37.06,39.06
BC: 322 lb Conc. Load at 41.06
BC: 274 lb Conc. Load at 43.06

Plating Notes

All plates are 2X4 except as noted.

Tray Scab(s)

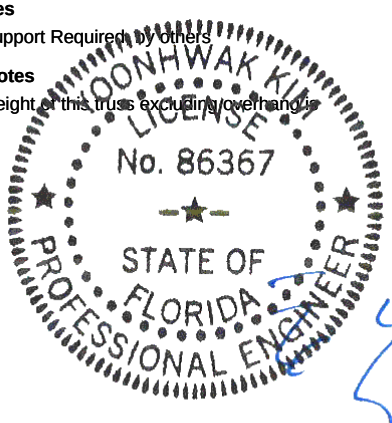
(2) 2x6x6-11-11 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.128"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (6), heel: (10), 1st panel point: (4).

Hangers / Ties

(J) Hanger Support Required by others

Additional Notes

The overall height of this truss excluding overhang is 5-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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6750 Forum Drive
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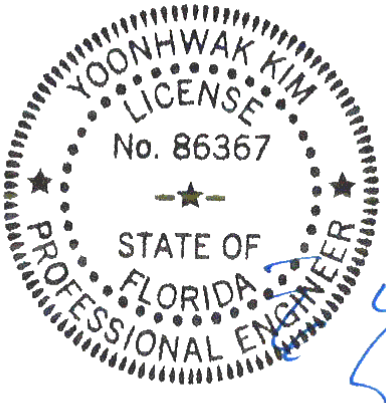
Orlando FL, 32821

Wind

Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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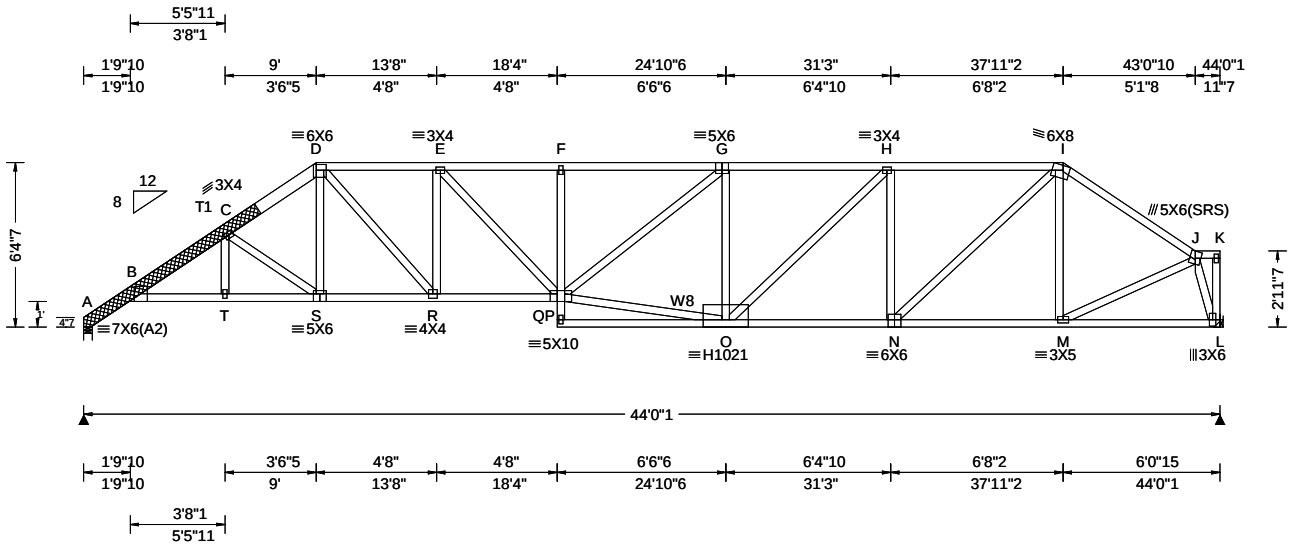
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635346 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C02	Cust: R 215 JRef:1Xa92150006 T63 / DrwNo: 309.21.1155.50408 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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: 4.40 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.354	F	999	240
VERT(CL): 0.701	F	749	180
HORZ(LL): 0.181	L	-	-
HORZ(TL): 0.358	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.659
Max BC CSI: 0.849
Max Web CSI: 0.785

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1868	/-	/-	/1023	/335	/167
L	1971	/-	/-	/973	/326	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.8
L Brg Wid = -
Bearing A 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	267	-1027	F - G	1402	-4128
B - C	1117	-3604	G - H	1140	-3471
C - D	1105	-3271	H - I	1016	-2962
D - E	1225	-3476	I - J	694	-2202
E - F	1407	-4145			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	3317	-1051	O - N	3004	-916
T - S	3311	-1049	N - M	1768	-511
S - R	2660	-830	M - L	708	-226
R - P	3528	-1123			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - S	273	-811	G - O	422	-910
D - S	574	-132	O - H	652	-245
D - R	1214	-423	H - N	421	-886
R - E	402	-900	N - I	1629	-526
E - P	902	-299	M - J	1193	-321
P - G	811	-335	J - L	672	-2078
P - O	3445	-1018			

Lumber

Top chord: 2x4 SP #2; T1 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W8 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Tray Scab(s)

(2) 2x6x8-1-13 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.128"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (5), heel: (7), 1st panel point: (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.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-4-7.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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ALPINE AN ITW COMPANY
6750 Forum Drive
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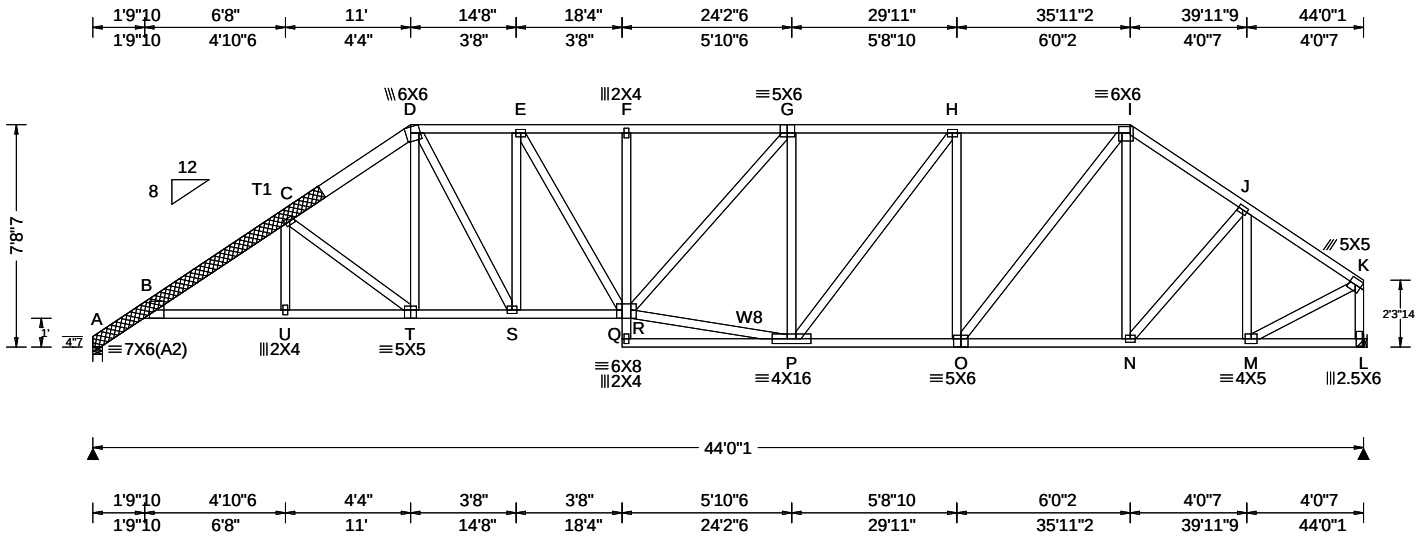
Orlando FL, 32821

SEQN: 635342 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C03	Cust: R 215 JRef:1Xa92150006 T17 / DrwNo: 309.21.1155.48892 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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: 4.40 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.281	F	999	240
VERT(CL): 0.553	F	949	180
HORZ(LL): 0.174	L	-	-
HORZ(TL): 0.342	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.459
Max BC CSI: 0.770
Max Web CSI: 0.836

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1885	/-	/-	/1045	/333	/209
L	1986	/-	/-	/1016	/318	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.8
L Brg Wid = -
Bearing A 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	261	- 1036	F - G	1142	- 3298
B - C	1024	- 3485	G - H	977	- 2907
C - D	1017	- 3070	H - I	910	- 2608
D - E	1025	- 2896	I - J	749	- 2263
E - F	1144	- 3305	J - K	564	- 1935

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	3129	- 904	P - O	2637	- 729
U - T	3125	- 902	O - N	1827	- 469
T - S	2458	- 681	N - M	1589	- 427
S - Q	2934	- 845			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	282	- 850	G - P	372	- 785
D - T	606	- 143	P - H	450	- 190
D - S	898	- 327	H - O	381	- 753
S - E	358	- 809	O - I	1257	- 411
E - Q	742	- 247	J - M	255	- 733
Q - G	564	- 237	M - K	1736	- 462
Q - P	2912	- 790	K - L	556	- 1946

Lumber
Top chord: 2x4 SP #2; T1 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W8 2x4 SP #2;

Plating Notes
All plates are 3X4 except as noted.

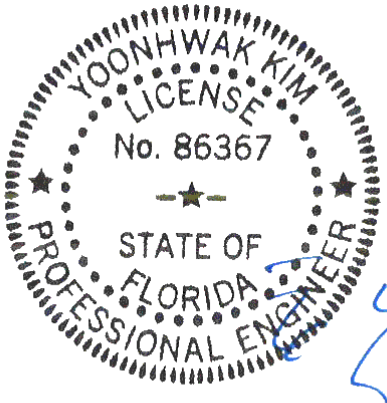
Tray Scab(s)
(2) 2x6x9-7-1 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.128"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (5), heel: (7), 1st panel point: (2).

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

Additional Notes
The overall height of this truss excluding overhang is 7-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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

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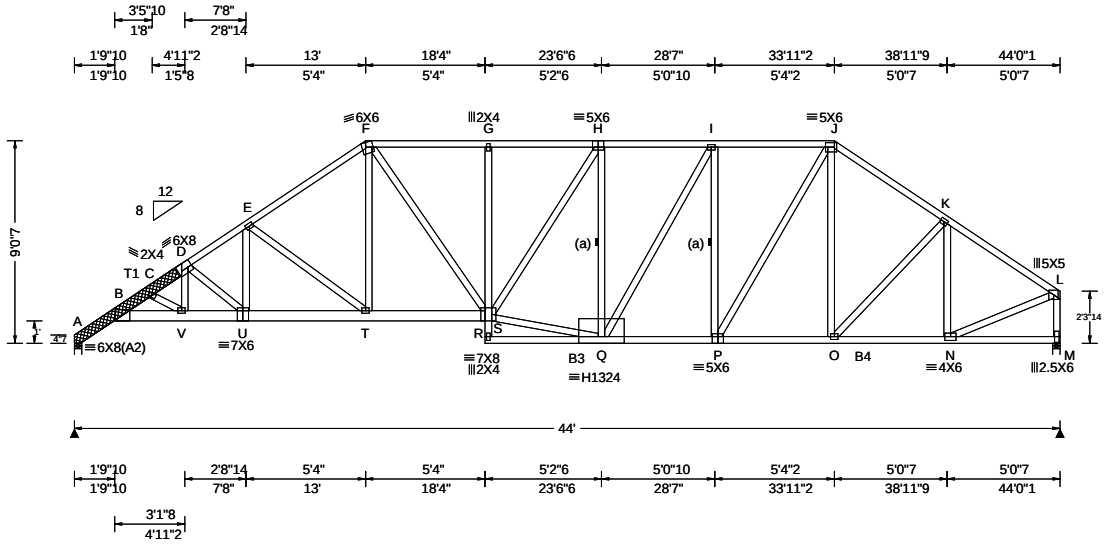
SEQN: 635337 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C04	Cust: R 215 JRef:1Xa92150006 T18 / DrwNo: 309.21.1155.48971 / YK 11/05/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.248 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.475 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.149 M - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.286 M - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.427
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.693
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.985
	C&C Dist a: 4.40 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 21.01.01A.0521.20
	GCpi: 0.18	WAVE, HS	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1960	/-	/-	/1064	/330	/249
M	2013	/-	/-	/1036	/314	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.8
M Brg Wid = 4.0 Min Req = 2.4
Bearings A & 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.
A - B	242	-1078	G - H	984	-2882
B - C	1279	-4746	H - I	871	-2564
C - D	1157	-4261	I - J	831	-2374
D - E	1047	-3720	J - K	753	-2327
E - F	930	-3008	K - L	588	-2129
F - G	985	-2887			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - V	4783	-1308	Q - P	2395	-596
V - U	3720	-989	P - O	1857	-427
U - T	3012	-782	O - N	1731	-431
T - R	2428	-582			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - V	394	-1313	R - Q	2584	-630
D - V	405	-90	H - Q	341	-774
D - U	254	-853	I - P	336	-647
U - E	625	-122	P - J	1011	-331
E - T	255	-745	K - N	227	-596
F - T	631	-87	N - L	1825	-448
F - R	781	-303	L - M	535	-1967
R - H	559	-195			

Lumber

Top chord: 2x4 SP #2; T1 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E; B3,B4 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Tray Scab(s)

(2) 2x6x5-6-13 x SP 2400f-2.0E scabs at left end. Attach one scab to each outer face of chord with: 0.128"x3", min. nails @ 8" oc, Plus additional nail clusters at: BRG.: (5), heel: (12), 1st panel point: (7).

Loading

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

Wind

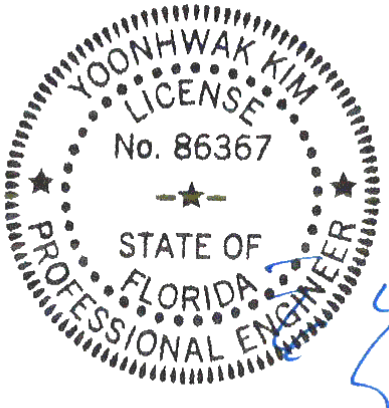
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 9-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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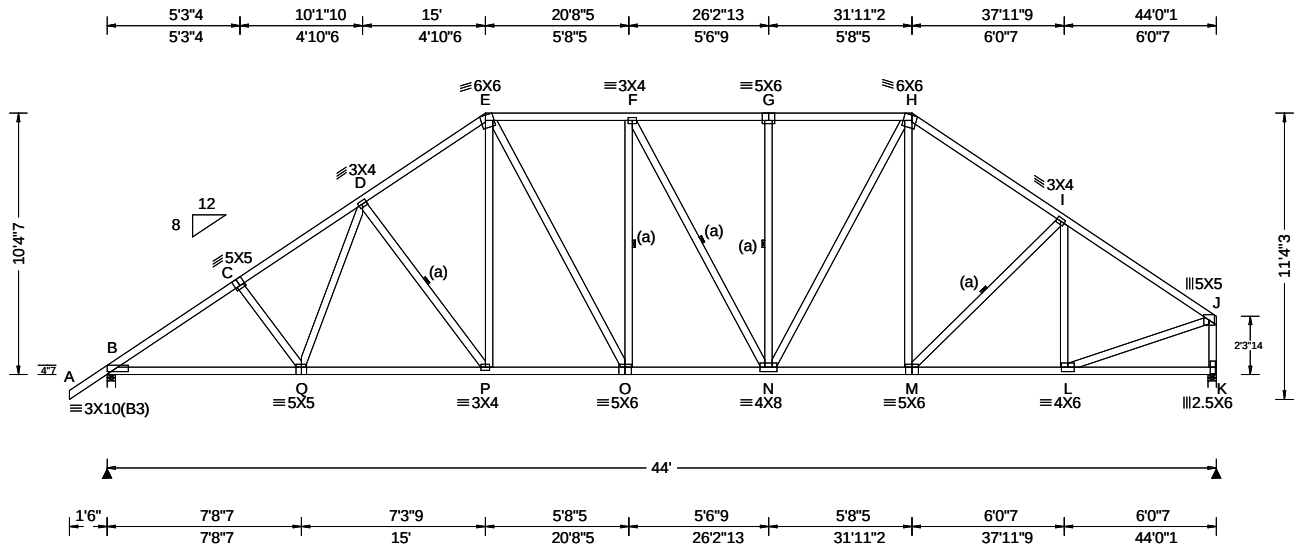
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635328 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C05	Cust: R 215 JRef:1Xa92150006 T43 / DrwNo: 309.21.1155.49970 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria

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: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.180	F	999	240
VERT(CL): 0.328	F	999	180
HORZ(LL): 0.080	K	-	-
HORZ(TL): 0.146	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.652
Max BC CSI: 0.953
Max Web CSI: 0.765

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2250	/-	/-	/1204	/89	/309
K	2143	/-	/-	/1055	/31	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 2.7
K Brg Wid = 4.0 Min Req = 2.5
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	782	- 3417	F - G	784	- 2350
C - D	809	- 3238	G - H	784	- 2350
D - E	808	- 2734	H - I	741	- 2457
E - F	800	- 2433	I - J	593	- 2409

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	2750	- 635	O - N	2439	- 512
Q - P	2502	- 539	N - M	1948	- 375
P - O	2199	- 426	M - L	1944	- 421

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - D	386	- 41	N - H	817	- 260
D - P	199	- 513	I - L	206	- 452
E - P	703	- 99	L - J	2008	- 425
E - O	484	- 207	J - K	512	- 2095

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

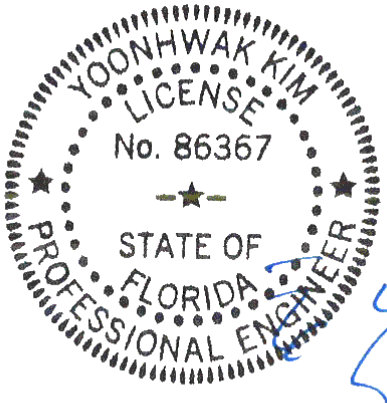
Wind loads based on MWFRS with additional C&C member design.

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 10-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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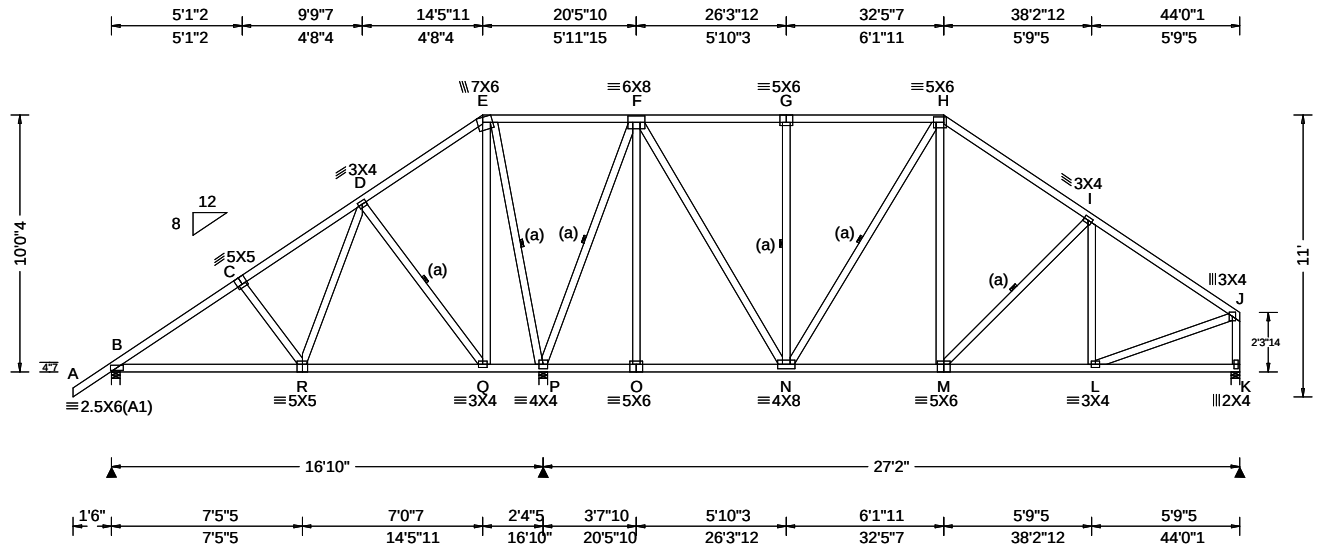
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635322 / HIPS FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C06	Cust: R 215 JRef:1Xa92150006 T44 DrwNo: 309.21.1155.50017 / YK 11/05/2021



Loading Criteria (psf)
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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.63 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.037	M	999	240
VERT(CL): 0.071	M	999	180
HORZ(LL): 0.012	K	-	-
HORZ(TL): 0.022	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.571
Max BC CSI: 0.456
Max Web CSI: 0.896

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	656	/-	/-	/414	/8	/299
P	2582	/-	/-	/1268	/-	/-
K	1115	/-	/-	/668	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
P Brg Wid = 4.0 Min Req = 2.7
K Brg Wid = 4.0 Min Req = 1.5
Bearings B, P, & 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	109	- 663	G - H	35	- 654
C - D	135	- 489	H - I	60	- 1040
E - F	471	0	I - J	33	- 1165
F - G	35	- 653			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	483	- 205	M - L	904	0
N - M	775	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - D	456	- 55	F - N	966	0
D - Q	219	- 560	G - N	0	- 383
E - Q	614	- 119	L - J	928	0
E - P	87	- 1060	J - K	41	- 1065
P - F	0	- 1602			

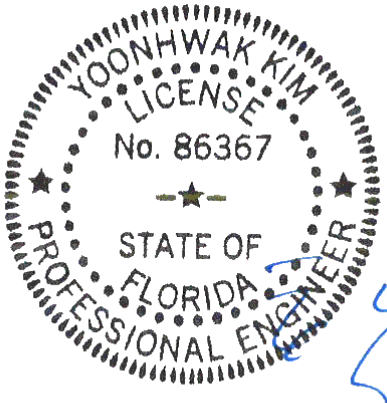
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
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 10-0-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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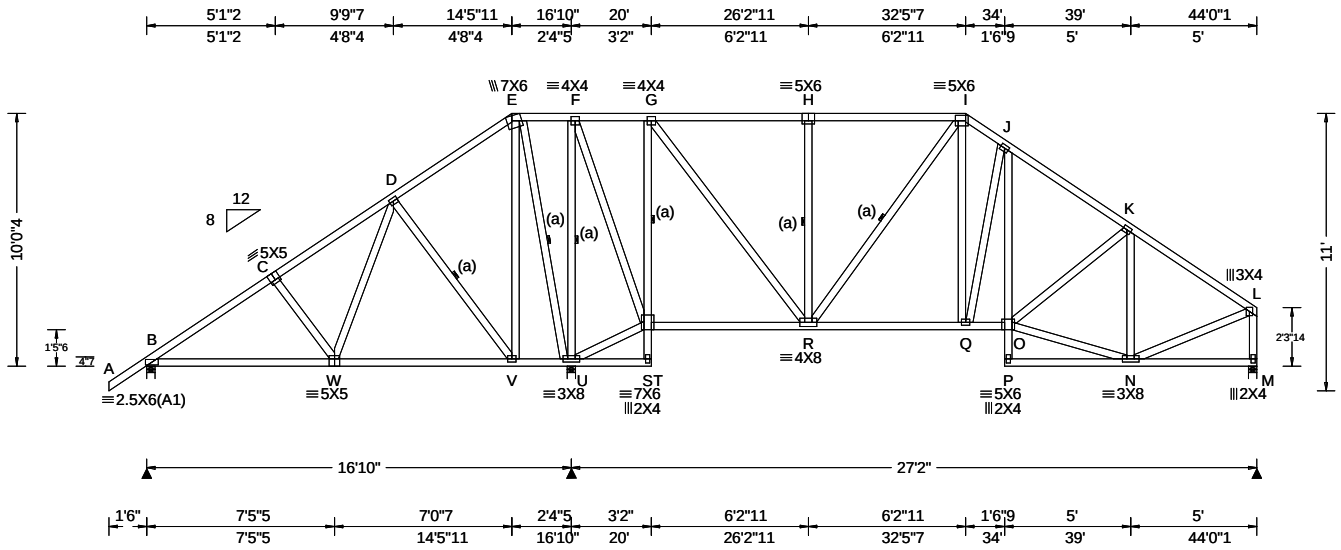
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635325 / SPEC FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C07	Cust: R 215 JRef:1Xa92150006 T62 / DrwNo: 309.21.1155.48753 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 17.79 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.046	O	999	240
VERT(CL): 0.093	O	999	180
HORZ(LL): 0.022	M	-	-
HORZ(TL): 0.042	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.433
Max Web CSI: 0.579

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	628	/-	/-	/374	/39	/302
U	2506	/-	/-	/1370	/-	/-
M	1030	/-	/-	/652	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
U Brg Wid = 4.0 Min Req = 2.6
M Brg Wid = 4.0 Min Req = 1.5
Bearings B, U, & 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	161	-615	H - I	18	-585
C - D	187	-440	I - J	105	-960
D - E	456	0	J - K	50	-1151
E - F	567	0	K - L	51	-1045
G - H	18	-584			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - W	443	-246	Q - O	872	0
R - Q	791	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
W - D	460	-59	H - R	0	-429
D - V	228	-562	R - I	110	-385
E - V	617	-128	I - Q	534	-185
E - U	87	-1035	Q - J	226	-375
U - F	0	-1159	O - N	840	0
U - S	168	-625	K - N	40	-464
F - S	1078	0	N - L	853	0
S - G	0	-1228	L - M	55	-988
G - R	1146	0			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 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

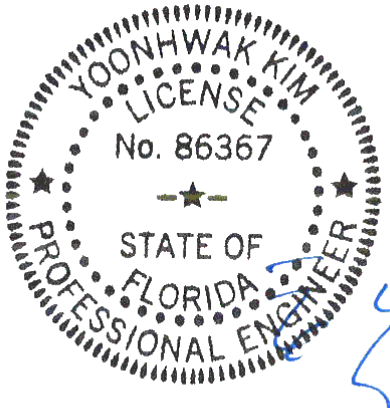
Wind loads based on MWFRS with additional C&C member design.

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 10-0-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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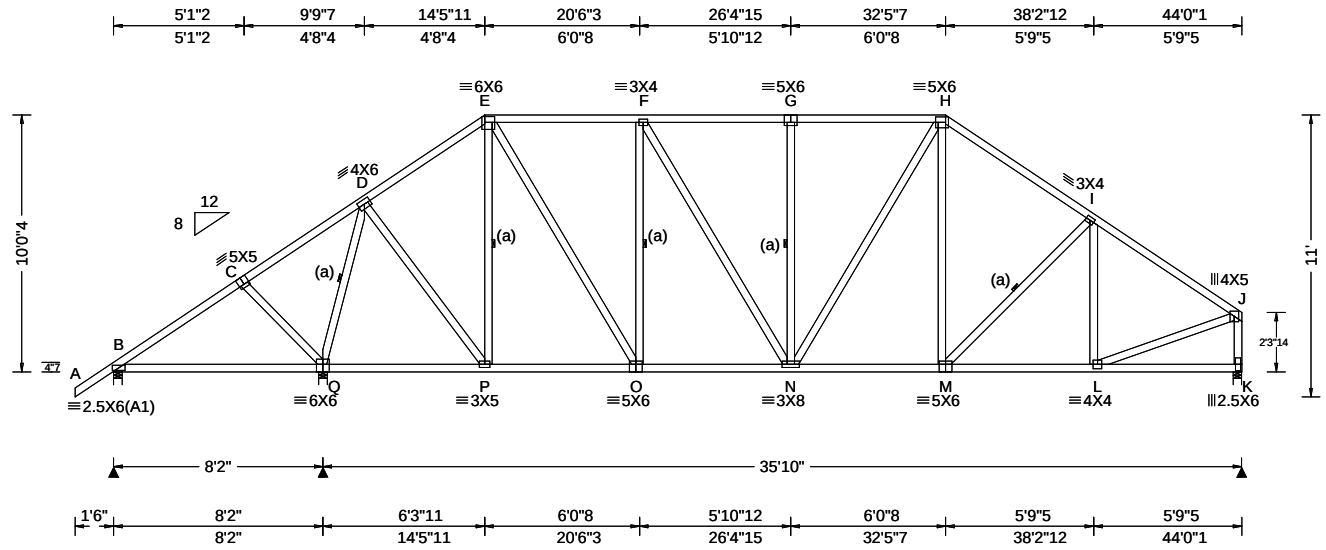
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635319 / SPEC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C08	Cust: R 215 JRef:1Xa92150006 T74 / DrwNo: 309.21.1155.48595 / YK 11/05/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.085 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.158 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.028 K - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.052 K - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.481
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.570
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.848
	C&C Dist a: 4.40 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 21.01.01A.0521.20
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

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

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 10-0-4.

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
B	354	/-	/-	/216	/-	/299
Q	2350	/-	/-	/1204	/165	/-
K	1649	/-	/-	/894	/59	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
Q Brg Wid = 4.0 Min Req = 2.3
K Brg Wid = 4.0 Min Req = 1.9
Bearings B, Q, & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

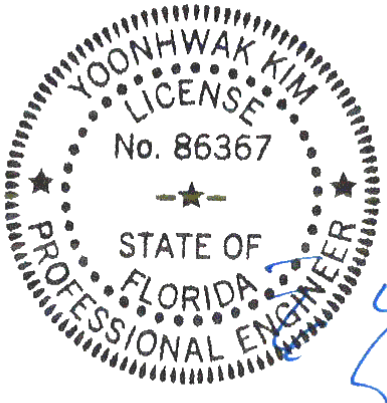
Chords	Tens.	Comp.	Chords	Tens.	Comp.
D - E	437	-1176	G - H	650	-1621
E - F	584	-1454	H - I	630	-1803
F - G	650	-1620	I - J	501	-1792

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	912	-142	N - M	1410	-287
O - N	1473	-308	M - L	1432	-345

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - D	615	-1975	N - H	399	-173
D - P	1106	-265	I - L	182	-384
E - P	271	-649	L - J	1479	-348
E - O	1051	-345	J - K	442	-1598
O - F	354	-645			



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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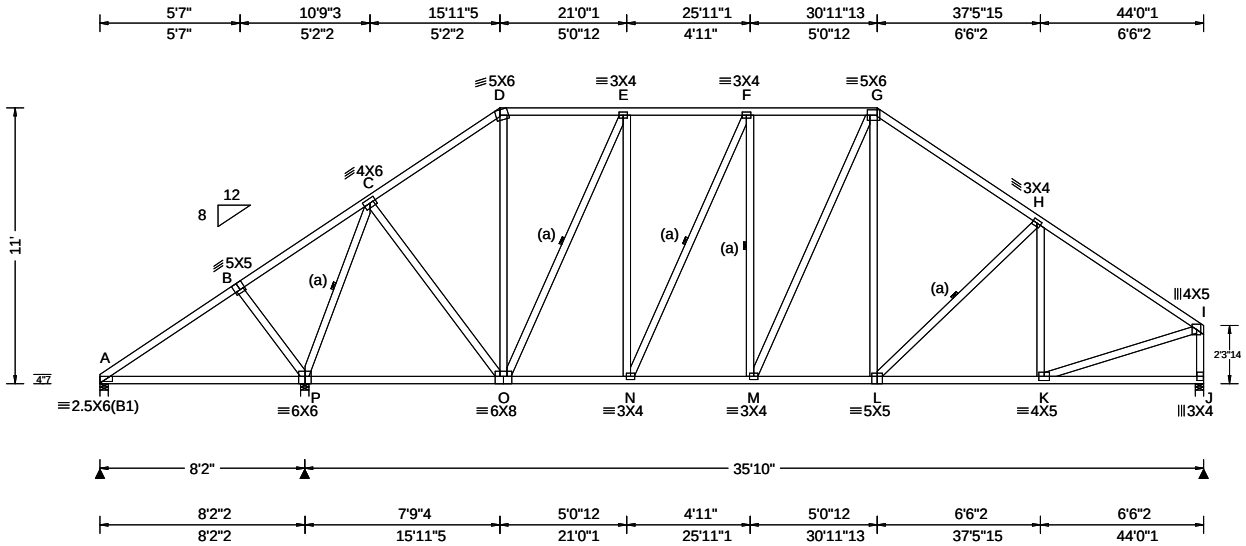
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635316 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C09	Cust: R 215 JRef:1Xa92150006 T42 / DrwNo: 309.21.1155.49673 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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: > 2h
C&C Dist a: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.078	F	999	240
VERT(CL): 0.143	F	999	180
HORZ(LL): 0.030	J	-	-
HORZ(TL): 0.055	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.655
Max BC CSI: 0.621
Max Web CSI: 0.658

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
A	253	/-	/-	/152	/-	/312
P	2376	/-	/-	/1220	/-	/-
J	1717	/-	/-	/910	/-	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.5
P Brg Wid = 4.0 Min Req = 2.4
J Brg Wid = 4.0 Min Req = 2.0
Bearings A, 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.
C - D	82	-1283	F - G	67	-1503
D - E	114	-992	G - H	85	-1811
E - F	64	-1369	H - I	55	-1939

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	445	-71	M - L	1401	0
O - N	1356	0	L - K	1541	0
N - M	1503	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - C	0	-1951	E - N	505	0
C - O	907	0	K - I	1575	0
O - E	0	-894	I - J	66	-1669

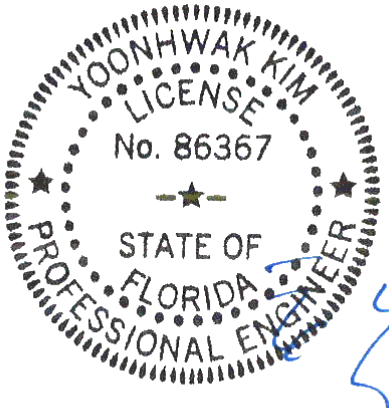
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
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 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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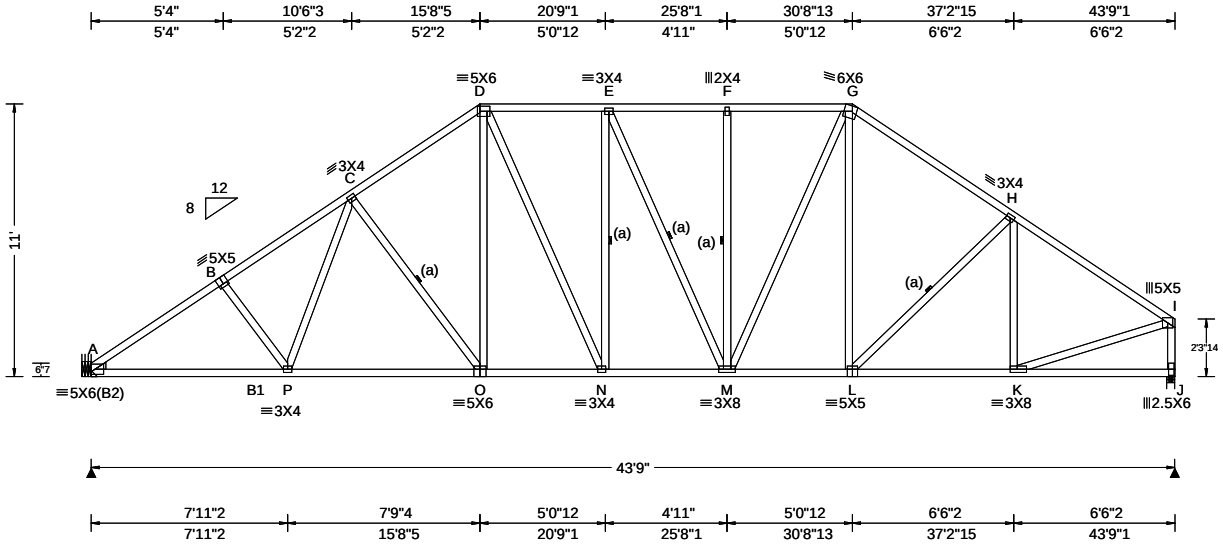
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635441 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C10	Cust: R 215 JRef:1Xa92150006 T76 / DrwNo: 309.21.1155.49517 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.86 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.38 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.176	O	999	240
VERT(CL): 0.322	O	999	180
HORZ(LL): 0.072	J	-	-
HORZ(TL): 0.132	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.852
Max BC CSI: 0.812
Max Web CSI: 0.769

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	2131	/-	/-	/1105	/75	/305
J	2136	/-	/-	/1057	/51	/-

Wind reactions based on MWFRS
A Brg Wid = - Min Req = -
J Brg Wid = 4.0
Bearing J 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	768	- 3341	E - F	757	- 2211
B - C	796	- 3150	F - G	757	- 2211
C - D	794	- 2642	G - H	736	- 2424
D - E	771	- 2277	H - I	595	- 2451

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	2672	- 622	N - M	2281	- 459
P - O	2431	- 514	M - L	1911	- 351
O - N	2114	- 392	L - K	1971	- 416

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - C	377	- 36	M - G	700	- 240
C - O	210	- 537	H - K	200	- 384
D - O	729	- 112	K - I	2020	- 416
D - N	389	- 188	I - J	505	- 2087

Lumber

Top chord: 2x4 SP #2;
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.

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

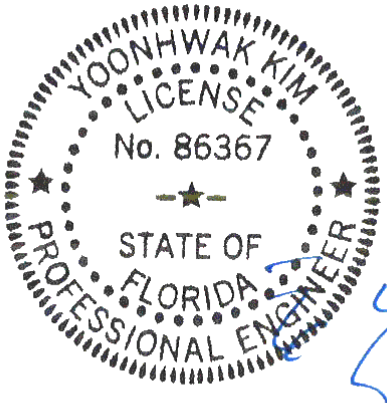
Wind loads based on MWFRS with additional C&C member design.

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 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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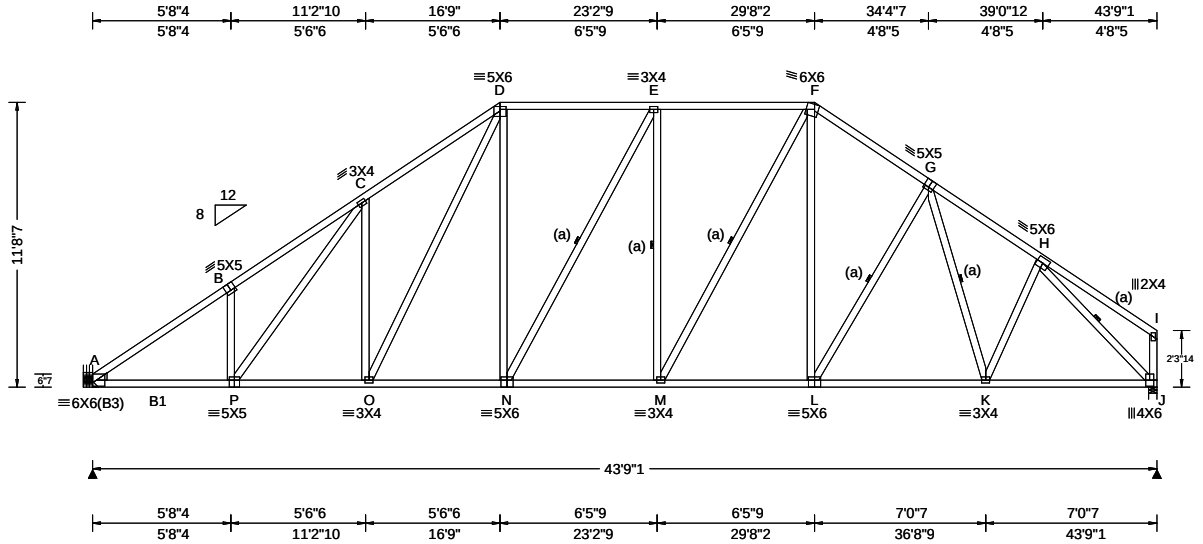
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635443 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C11	Cust: R 215 JRef:1Xa92150006 T82 / DrwNo: 309.21.1155.51159 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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: > 2h
C&C Dist a: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.188	C	999	240
VERT(CL): 0.336	C	999	180
HORZ(LL): 0.088	J	-	-
HORZ(TL): 0.157	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.832
Max BC CSI: 0.879
Max Web CSI: 0.869

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	2188	/-	/-	/1112	/70	/328
J	2193	/-	/-	/1063	/11	/-

Wind reactions based on MWFRS
A Brg Wid = - Min Req = -
J Brg Wid = 4.0
Bearing J 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	749	- 3411	E - F	759	- 2230
B - C	893	- 3346	F - G	754	- 2432
C - D	933	- 3093	G - H	680	- 2499
D - E	716	- 2119			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	2730	- 604	M - L	1956	- 331
P - O	2511	- 499	L - K	2039	- 391
O - N	2106	- 366	K - J	1839	- 396
N - M	2235	- 417			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - O	305	- 532	F - L	447	- 65
O - D	886	- 282	K - H	390	- 1
D - N	484	- 75	H - J	583	- 2701
M - F	563	- 198			

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

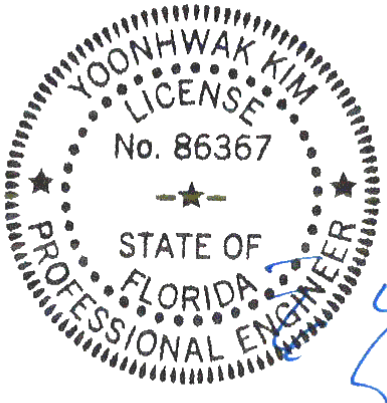
Bracing
(a) Continuous lateral restraint equally spaced on member.

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.
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 11-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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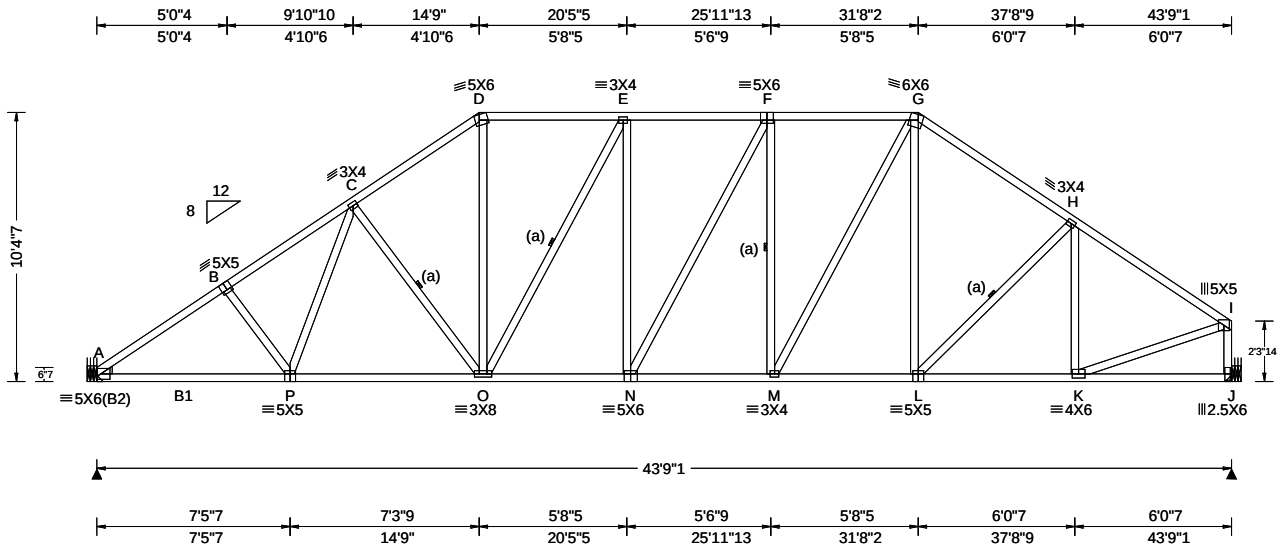
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635445 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C12	Cust: R 215 JRef:1Xa92150006 T33 / DrwNo: 309.21.1155.49971 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.47 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.192	N	999	240
VERT(CL): 0.350	N	999	180
HORZ(LL): 0.080	J	-	-
HORZ(TL): 0.145	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.846
Max BC CSI: 0.987
Max Web CSI: 0.767

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	2120	/-	/-	/1102	/84	/287
J	2148	/-	/-	/1051	/57	/-

Wind reactions based on MWFRS
A Brg Wid = -
J Brg Wid = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	793	- 3326	E - F	812	- 2422
B - C	820	- 3148	F - G	791	- 2351
C - D	817	- 2683	G - H	751	- 2464
D - E	731	- 2171	H - I	602	- 2416

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	2661	- 647	N - M	2364	- 502
P - O	2450	- 547	M - L	1954	- 382
O - N	2418	- 520	L - K	1950	- 427

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - O	197	- 490	M - G	821	- 260
D - O	1109	- 269	H - K	208	- 452
O - E	219	- 524	K - I	2014	- 432
F - M	284	- 471	I - J	520	- 2101

Lumber

Top chord: 2x4 SP #2;
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.

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

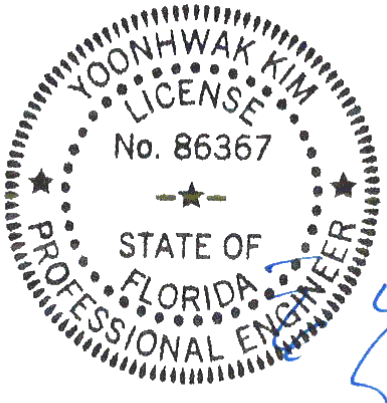
Wind loads based on MWFRS with additional C&C member design.

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 10-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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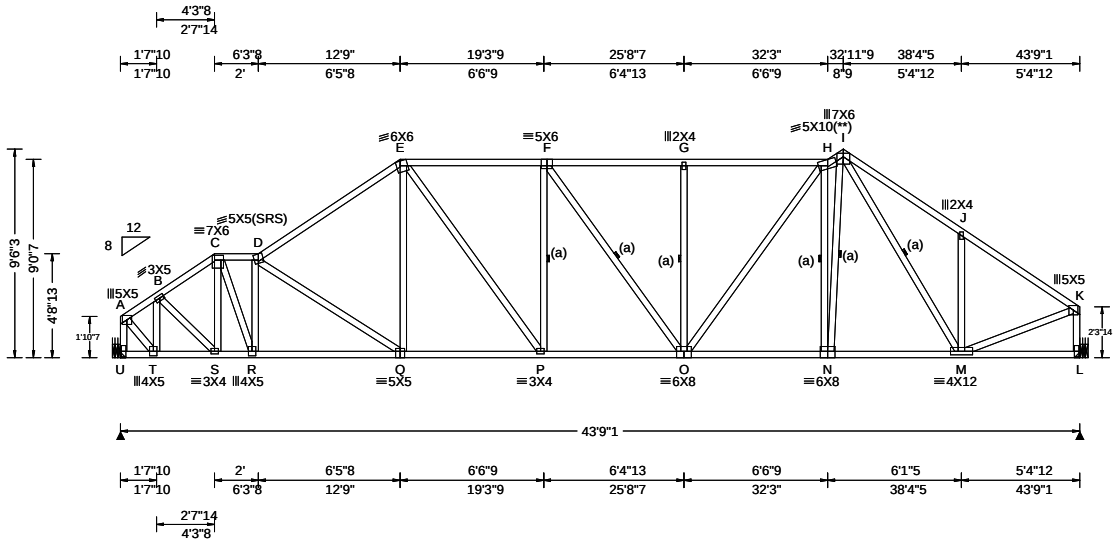
Suite 305
Orlando FL, 32821

SEQN: 635448 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C13	Cust: R 215 JRef:1Xa92150006 T80 / DrwNo: 309.21.1155.48752 / YK 11/05/2021



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.218 G 999 240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.402 G 999 180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.074 L - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.137 L - -
NCBCLL:	10.00	Mean Height: 15.79 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.701
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.888
Spacing:	24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.987
		C&C Dist a: 4.40 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	2069	/-	/-	/1045	/148	/223
L	2147	/-	/-	/1042	/159	/-

Wind reactions based on MWFRS
U Brg Wid = -
L Brg Wid = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	392	- 1437	F - G	905	- 2709
B - C	663	- 2266	G - H	905	- 2710
C - D	748	- 2485	H - I	846	- 2434
D - E	866	- 2844	I - J	775	- 2361
E - F	914	- 2735	J - K	609	- 2361

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
T - S	1268	- 405	P - O	2746	- 679
S - R	1844	- 517	O - N	2180	- 480
R - Q	2591	- 707	N - M	2000	- 423
Q - P	2280	- 539			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - U	543	- 2045	E - Q	448	- 49
A - T	1686	- 440	E - P	769	- 230
T - B	354	- 1197	G - O	335	- 454
B - S	830	- 196	O - H	882	- 326
C - S	133	- 532	H - N	829	- 1993
C - R	1780	- 482	N - I	2328	- 770
R - D	519	- 1603	M - K	2000	- 457
D - Q	203	- 377	K - L	538	- 2107

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2.5X6 except as noted.

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

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

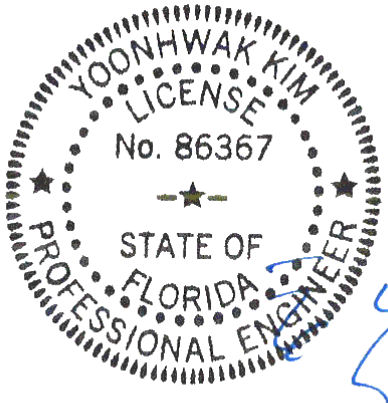
Wind loads based on MWFRS with additional C&C member design.

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 9-6-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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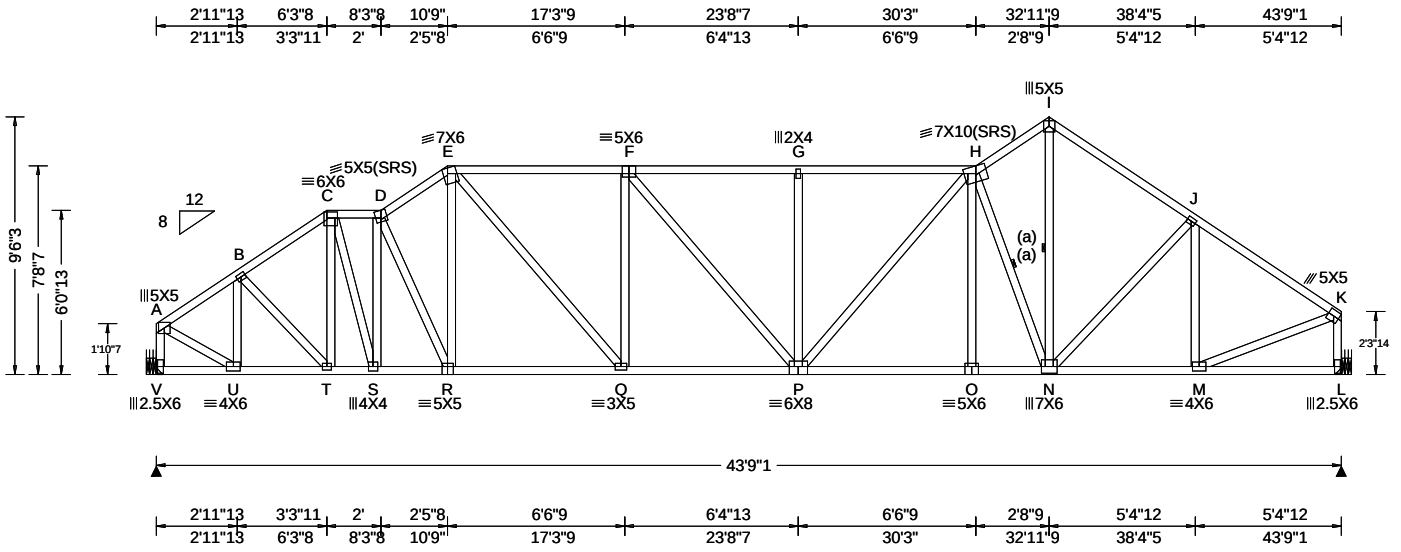
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 635451 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C14	Cust: R 215 JRef:1Xa92150006 T83 / DrwNo: 309.21.1155.50378 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.79 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.231	G	999	240
VERT(CL): 0.442	G	999	180
HORZ(LL): 0.072	L	-	-
HORZ(TL): 0.138	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.662
Max BC CSI: 0.904
Max Web CSI: 0.895

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	2029	/-	/-	/1029	/159	/223
L	1998	/-	/-	/1035	/138	/-

Wind reactions based on MWFRS
V Brg Wid = -
L Brg Wid = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	562	- 1948	F - G	1041	- 3098
B - C	763	- 2397	G - H	1041	- 3099
C - D	781	- 2335	H - I	775	- 2236
D - E	921	- 2792	I - J	747	- 2299
E - F	1006	- 2994	J - K	588	- 2162

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
U - T	1629	- 510	Q - P	3014	- 848
T - S	1944	- 562	P - O	2638	- 676
S - R	2405	- 686	O - N	2634	- 677
R - Q	2326	- 640	N - M	1751	- 426

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - V	566	- 1998	Q - F	303	- 514
A - U	1792	- 484	G - P	325	- 428
U - B	274	- 810	P - H	695	- 284
B - T	469	- 101	H - N	803	- 2341
C - S	1377	- 424	I - N	2179	- 745
S - D	427	- 1371	J - M	221	- 533
E - R	402	- 97	M - K	1830	- 439
E - Q	1020	- 312	K - L	524	- 1953

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

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

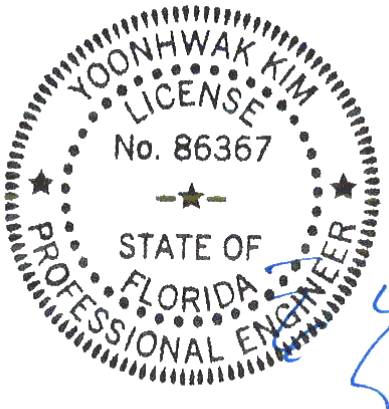
Plating Notes
All plates are 3X4 except as noted.

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.
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 9-6-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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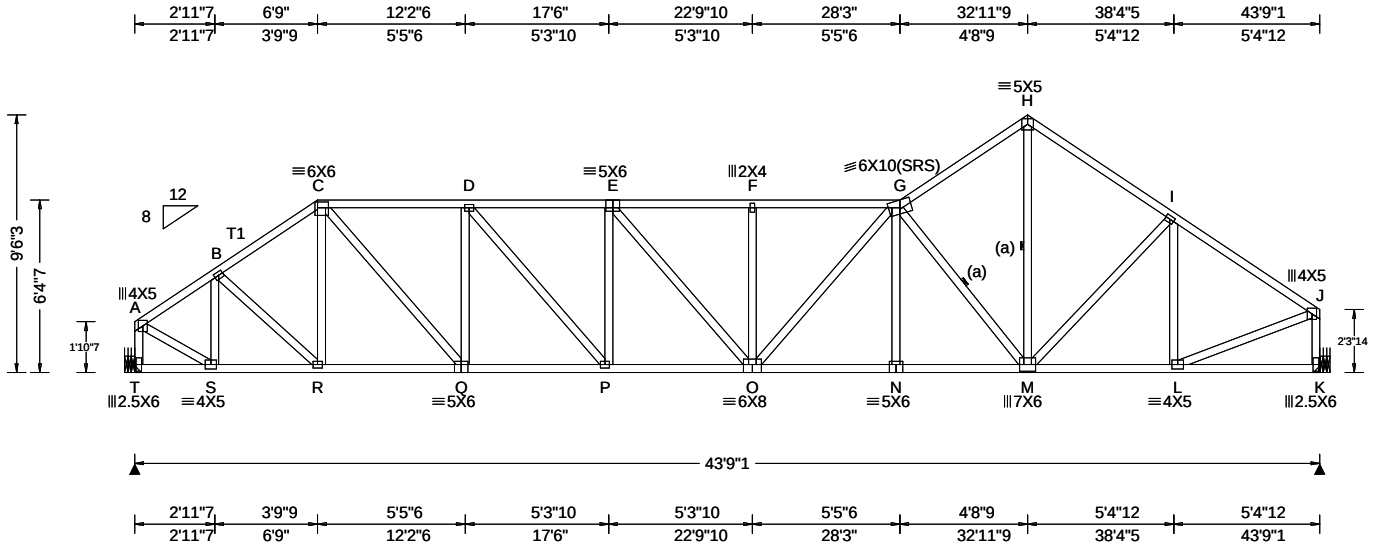
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635453 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C15	Cust: R 215 JRef:1Xa92150006 T72 / DrwNo: 309.21.1155.49798 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.79 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.231	F	999	240
VERT(CL): 0.485	F	999	180
HORZ(LL): 0.074	C	-	-
HORZ(TL): 0.155	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.444
Max BC CSI: 0.747
Max Web CSI: 0.938

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1838	/-	/-	/1012	/203	/224
K	1838	/-	/-	/1026	/114	/-

Wind reactions based on MWFRS
T Brg Wid = -
K Brg Wid = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	557	- 1753	F - G	1197	- 3334
B - C	768	- 2171	G - H	721	- 2053
C - D	985	- 2666	H - I	719	- 2076
D - E	1127	- 3185	I - J	566	- 1978
E - F	1197	- 3334			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1463	- 474	O - N	3055	- 908
R - Q	1757	- 549	N - M	3052	- 909
Q - P	2711	- 885	M - L	1596	- 407
P - O	3208	- 1000			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - T	564	- 1810	P - E	262	- 469
A - S	1613	- 481	O - G	418	- 237
S - B	271	- 723	G - M	861	- 2295
B - R	407	- 110	H - M	1868	- 659
C - Q	1381	- 480	I - L	211	- 478
Q - D	416	- 936	L - J	1666	- 419
D - P	746	- 270	J - K	505	- 1793

Lumber
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

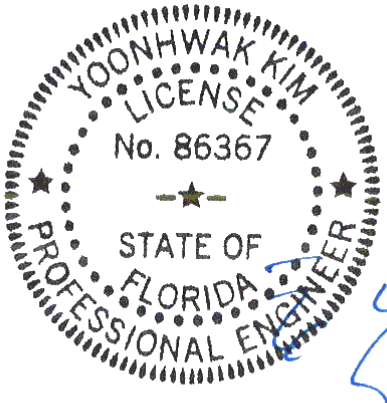
Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 3X4 except as noted.

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

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 9-6-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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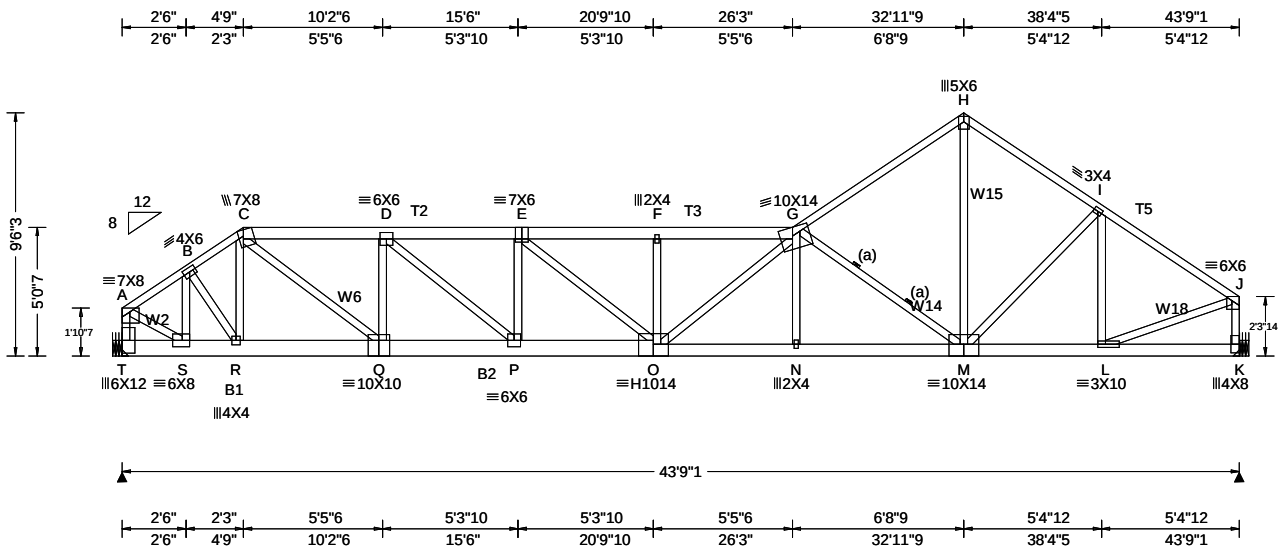
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635456 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** C16	Cust: R 215 JRef:1Xa92150006 T84 / DrwNo: 309.21.1155.51128 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.79 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.40 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.426	F	999	240
VERT(CL): 0.867	F	605	180
HORZ(LL): 0.100	C	-	-
HORZ(TL): 0.202	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.921
Max BC CSI: 0.792
Max Web CSI: 0.998

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	4321	/-	/-	/-	/881	/-
K	2878	/-	/-	/-	/478	/-

Wind reactions based on MWFRS
T Brg Wid = -
K Brg Wid = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	814	- 3918	F - G	1622	- 9723
B - C	972	- 4797	G - H	626	- 3609
C - D	1447	- 7389	H - I	614	- 3575
D - E	1699	- 9499	I - J	548	- 3200
E - F	1618	- 9712			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	3305	- 677	O - N	8152	- 1365
R - Q	4066	- 831	N - M	8151	- 1362
Q - P	7552	- 1485	M - L	2624	- 438
P - O	9552	- 1713			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - T	874	- 4168	P - E	227	- 750
A - S	3677	- 753	O - G	2051	- 336
S - B	372	- 1854	G - M	1067	- 6368
B - R	1373	- 265	H - M	3480	- 502
R - C	253	- 711	M - I	399	- 63
C - Q	4371	- 809	I - L	218	- 853
Q - D	608	- 2539	L - J	2734	- 451
D - P	2620	- 287	J - K	497	- 2818

Lumber

Top chord: 2x4 SP M-31; T2,T3 2x6 SP 2400f-2.0E;
T5 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E; B1 2x8 SP #2;
B2 2x8 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W6,W15,W18 2x4 SP #2;
W14 2x4 SP M-31;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 32 plf at 0.00 to 32 plf at 18.94
TC: From 64 plf at 18.94 to 64 plf at 43.75
BC: From 10 plf at 0.00 to 10 plf at 20.80
BC: From 20 plf at 20.80 to 20 plf at 43.75
TC: 163 lb Conc. Load at 0.56
TC: 109 lb Conc. Load at 2.56
TC: 193 lb Conc. Load at 4.56, 6.56, 8.56,10.56 12.56,14.56,16.56
TC: 30 lb Conc. Load at 18.94
BC: 126 lb Conc. Load at 0.56
BC: 165 lb Conc. Load at 2.56
BC: 131 lb Conc. Load at 4.56, 6.56, 8.56,10.56 12.56,14.56,16.56
BC: 1481 lb Conc. Load at 18.94

Hangers / Ties

(J) Hanger Support Required, by others

Wind

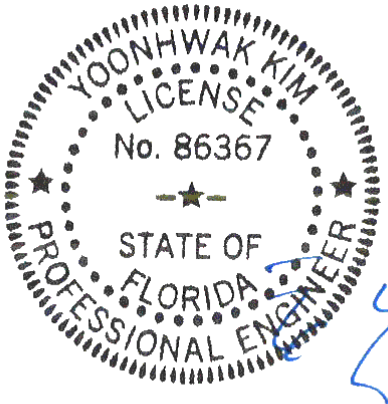
Wind loads and reactions based on MWFRS.

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 9-6-3.



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11/05/2021

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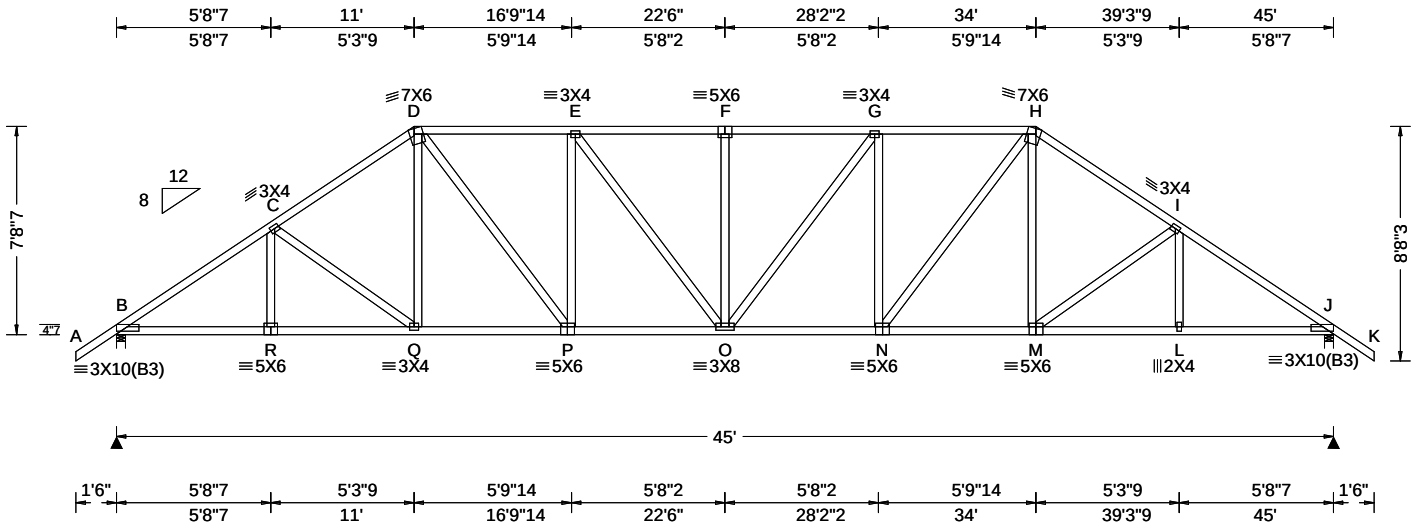
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637790 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** D03	Cust: R 215 JRef:1Xa92150006 T24 / DrwNo: 309.21.1155.49565 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.261	F	999	240
VERT(CL): 0.492	F	999	180
HORZ(LL): 0.107	J	-	-
HORZ(TL): 0.201	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.586
Max BC CSI: 0.983
Max Web CSI: 0.666

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2199	/-	/-	/1183	/347	/274
J	2199	/-	/-	/1183	/347	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 2.6
J Brg Wid = 4.0 Min Req = 2.6
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	858	- 3309	F - G	1013	- 3271
C - D	891	- 2985	G - H	986	- 3059
D - E	986	- 3059	H - I	892	- 2985
E - F	1013	- 3271	I - J	858	- 3309

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2659	- 585	O - N	3083	- 671
R - Q	2658	- 586	N - M	2408	- 466
Q - P	2408	- 489	M - L	2658	- 563
P - O	3083	- 694	L - J	2659	- 562

Maximum Web Forces Per Ply (lbs)

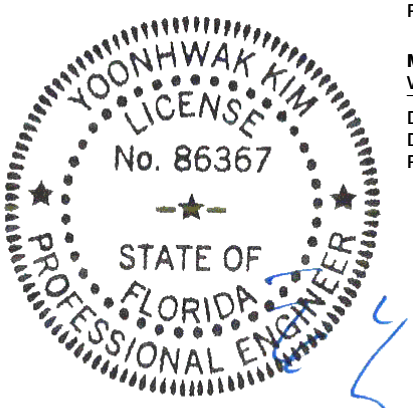
Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - Q	392	- 32	G - N	333	- 625
D - P	1067	- 346	N - H	1068	- 346
P - E	333	- 625	H - M	391	- 32

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
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 7-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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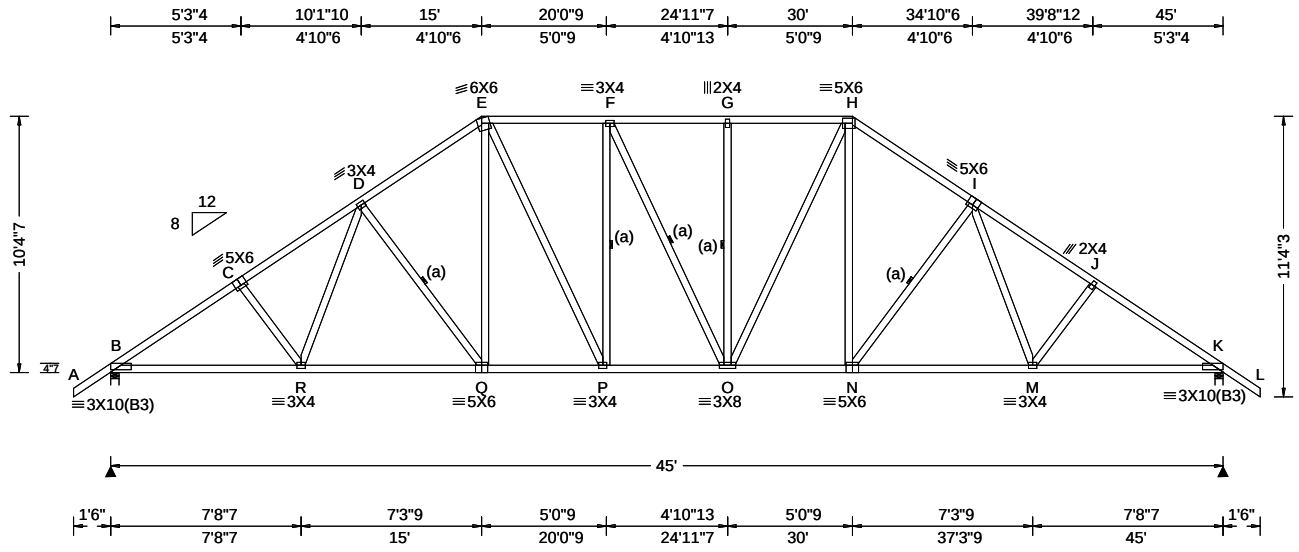
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637786 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** D05	Cust: R 215 JRef:1Xa92150006 T26 DrwNo: 309.21.1155.50877 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.217	G	999	240
VERT(CL): 0.397	G	999	180
HORZ(LL): 0.108	K	-	-
HORZ(TL): 0.197	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.643
Max BC CSI: 0.967
Max Web CSI: 0.523

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2285	/-	/-	/1216	/34	/353
K	2281	/-	/-	/1216	/34	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 2.7
K Brg Wid = 4.0 Min Req = 2.7
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	789	-3480	G - H	807	-2485
C - D	817	-3301	H - I	816	-2788
D - E	817	-2796	I - J	818	-3293
E - F	803	-2488	J - K	790	-3473
F - G	806	-2484			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2802	-533	O - N	2242	-300
R - Q	2555	-438	N - M	2548	-414
Q - P	2248	-323	M - K	2796	-518
P - O	2495	-407			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - D	388	-40	O - H	541	-218
D - Q	201	-519	H - N	693	-104
E - Q	689	-104	N - I	200	-518
E - P	545	-215	I - M	389	-41

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

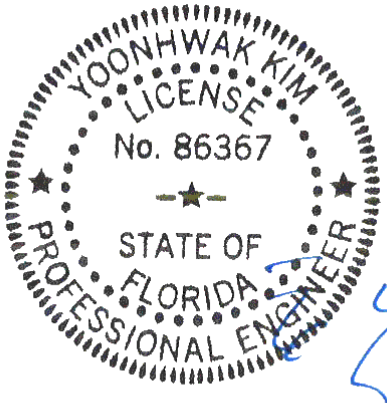
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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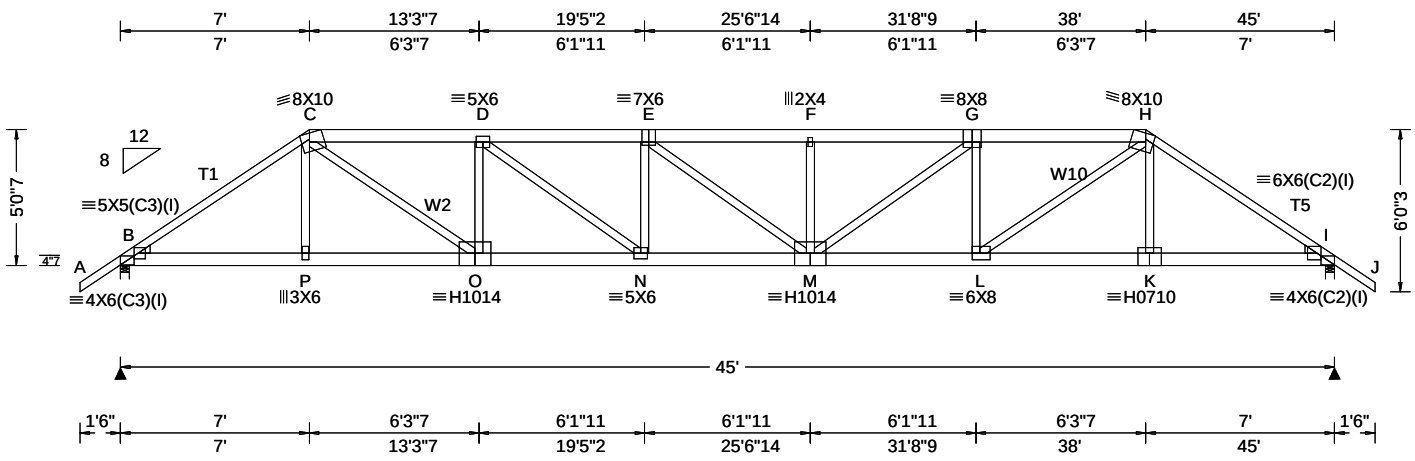
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637983 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** D01	Cust: R 215 JRef:1Xa92150006 T38 DrwNo: 309.21.1259.12360 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.558	F	962	240
VERT(CL): 1.125	F	476	180
HORZ(LL): 0.137	I	-	-
HORZ(TL): 0.277	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.966
Max BC CSI: 0.790
Max Web CSI: 0.900

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	4788	/-	/-	/-	/1190	/-
I	5077	/-	/-	/-	/1319	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 3.4
I Brg Wid = 4.0 Min Req = 3.6
Bearings B & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	2010	- 7979	F - G	3257	- 12258
C - D	2672	- 10234	G - H	2787	- 10498
D - E	3202	- 12131	H - I	2240	- 8489
E - F	3257	- 12258			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	6556	- 1642	M - L	10630	- 2835
P - O	6528	- 1639	L - K	6953	- 1830
O - N	10375	- 2724	K - I	6980	- 1833
N - M	12188	- 3231			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - C	870	- 89	F - M	435	- 809
C - O	4629	- 1290	M - G	2049	- 531
O - D	838	- 2256	G - L	781	- 2117
D - N	2230	- 607	L - H	4428	- 1195
N - E	464	- 885	H - K	853	- 87

Lumber

Top chord: 2x6 SP 2400f-2.0E; T1,T5 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W10 2x4 SP M-31;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Special Loads

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

TC: From	64 plf at	-1.50 to	64 plf at	7.00	
TC: From	32 plf at	7.00 to	32 plf at	38.00	
TC: From	64 plf at	38.00 to	64 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	7.03	
BC: From	10 plf at	7.03 to	10 plf at	38.15	
BC: From	20 plf at	38.15 to	20 plf at	45.00	
BC: From	5 plf at	45.00 to	5 plf at	46.50	

TC: 245 lb Conc. Load at 7.03
TC: 193 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06,19.06,21.06,22.50,23.94,25.94,27.94,29.94 31.94,33.94,35.94
TC: 665 lb Conc. Load at 37.97
BC: 712 lb Conc. Load at 7.03,37.97
BC: 131 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06,19.06,21.06,22.50,23.94,25.94,27.94,29.94 31.94,33.94,35.94

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

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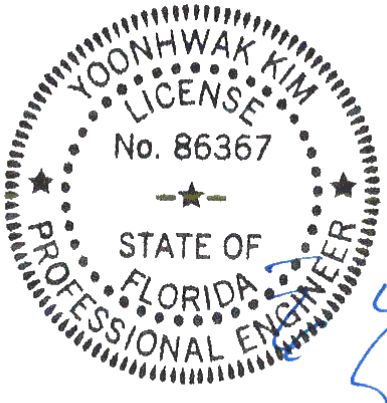
The overall height of this truss excluding overhang is 5-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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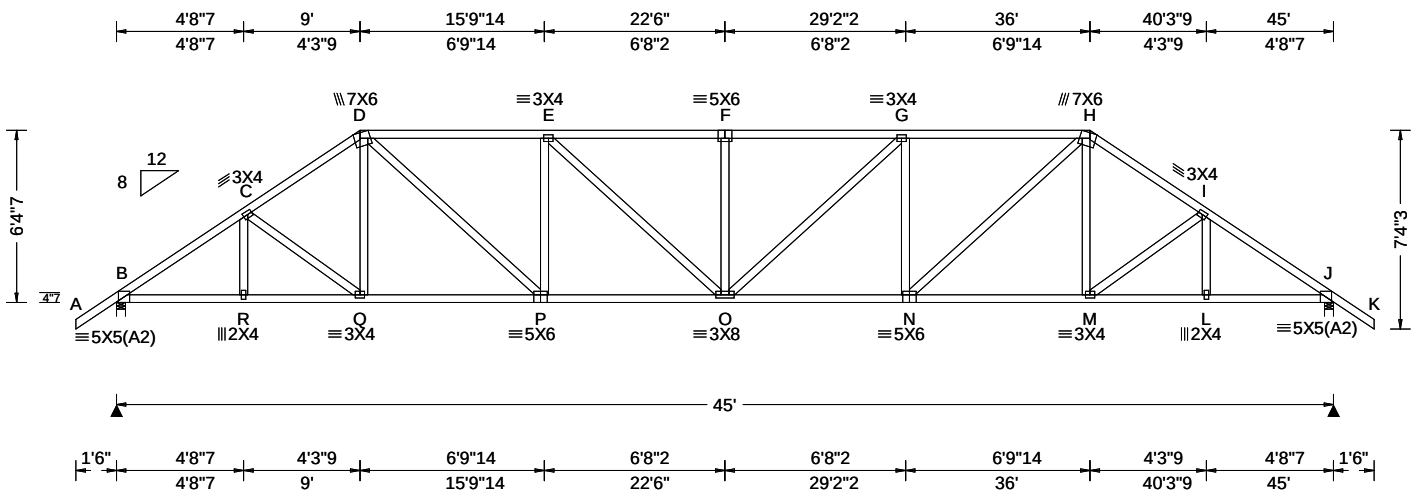
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637792 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** D02	Cust: R 215 JRef:1Xa92150006 T23 / DrwNo: 309.21.1155.49595 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.325	F	999	240
VERT(CL): 0.618	F	868	180
HORZ(LL): 0.111	J	-	-
HORZ(TL): 0.212	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.766
Max BC CSI: 0.980
Max Web CSI: 0.693

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2179	/-	/-	/1161	/351	/234
J	2179	/-	/-	/1161	/351	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 2.6
J Brg Wid = 4.0 Min Req = 2.6
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	889	- 3268	F - G	1192	- 3900
C - D	933	- 3064	G - H	1144	- 3560
D - E	1143	- 3560	H - I	933	- 3064
E - F	1192	- 3900	I - J	889	- 3268

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2630	- 620	O - N	3595	- 882
R - Q	2631	- 622	N - M	2500	- 548
Q - P	2500	- 571	M - L	2631	- 599
P - O	3595	- 905	L - J	2630	- 598

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	1431	- 453	O - G	417	- 162
P - E	375	- 732	G - N	375	- 732
E - O	417	- 162	N - H	1431	- 453
F - O	207	- 397			

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

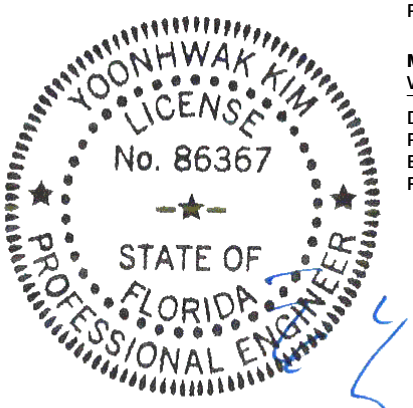
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

The overall height of this truss excluding overhang is 6-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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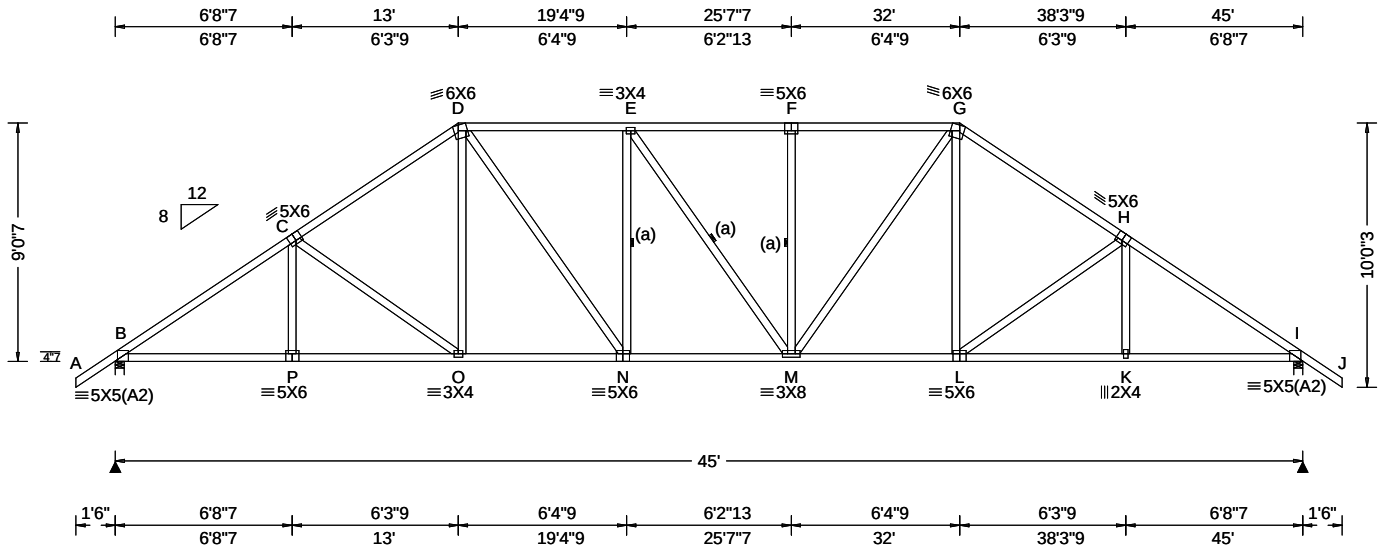
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637788 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** D04	Cust: R 215 JRef:1Xa92150006 T25 / DrwNo: 309.21.1155.51049 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.216	F	999	240
VERT(CL): 0.409	F	999	180
HORZ(LL): 0.099	I	-	-
HORZ(TL): 0.188	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.619
Max BC CSI: 0.853
Max Web CSI: 0.585

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2196	/-	/-	/1201	/343	/313
I	2189	/-	/-	/1201	/343	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 2.6
I Brg Wid = 4.0 Min Req = 2.6
Bearings B & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	820	- 3291	F - G	900	- 2742
C - D	846	- 2869	G - H	847	- 2855
D - E	896	- 2750	H - I	819	- 3277
E - F	900	- 2741			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	2636	- 541	M - L	2282	- 387
P - O	2635	- 542	L - K	2624	- 519
O - N	2294	- 410	K - I	2625	- 518
N - M	2762	- 551			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - O	178	- 422	M - G	777	- 267
D - O	480	- 44	G - L	485	- 45
D - N	784	- 264	L - H	177	- 423
F - M	304	- 389			

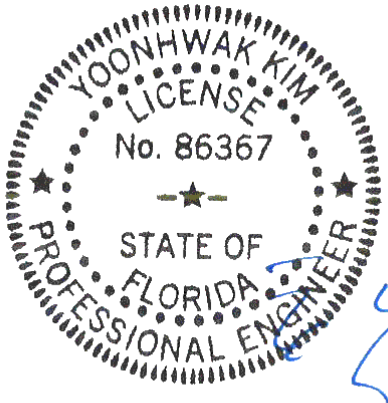
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

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

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 9-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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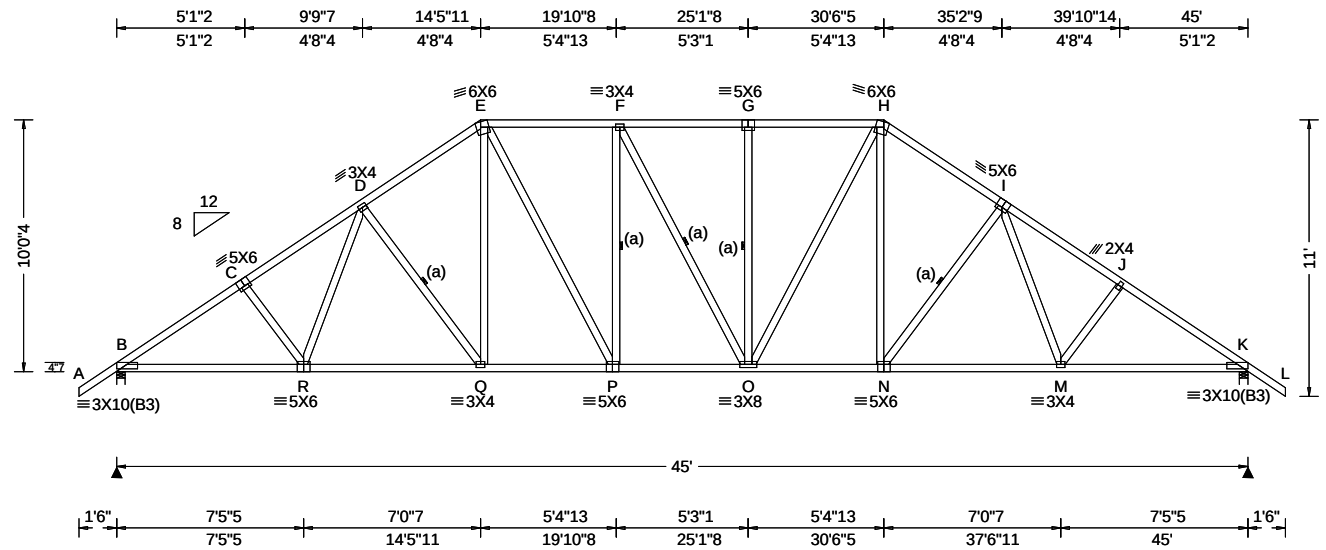
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637772 / HIPS FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** D06	Cust: R 215 JRef:1Xa92150006 T27 / DrwNo: 309.21.1155.50799 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.221	G	999	240
VERT(CL): 0.404	G	999	180
HORZ(LL): 0.108	K	-	-
HORZ(TL): 0.198	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.934
Max Web CSI: 0.534

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2284	/-	/-	/1212	/74	/343
K	2279	/-	/-	/1212	/74	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 2.7
K Brg Wid = 4.0 Min Req = 2.7
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	800	- 3479	G - H	829	- 2567
C - D	827	- 3306	H - I	828	- 2823
D - E	828	- 2834	I - J	827	- 3298
E - F	826	- 2571	J - K	800	- 3471
F - G	829	- 2567			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2802	- 544	O - N	2276	- 322
R - Q	2573	- 454	N - M	2565	- 430
Q - P	2284	- 345	M - K	2796	- 524
P - O	2580	- 443			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - Q	192	- 489	O - H	600	- 230
E - Q	667	- 96	H - N	668	- 96
E - P	603	- 227	N - I	190	- 489

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

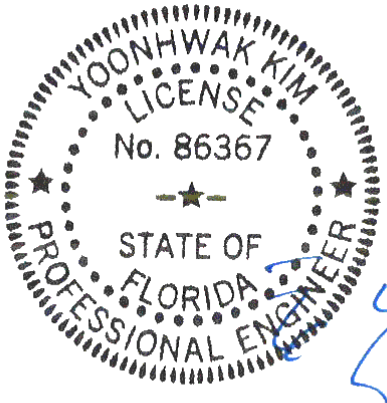
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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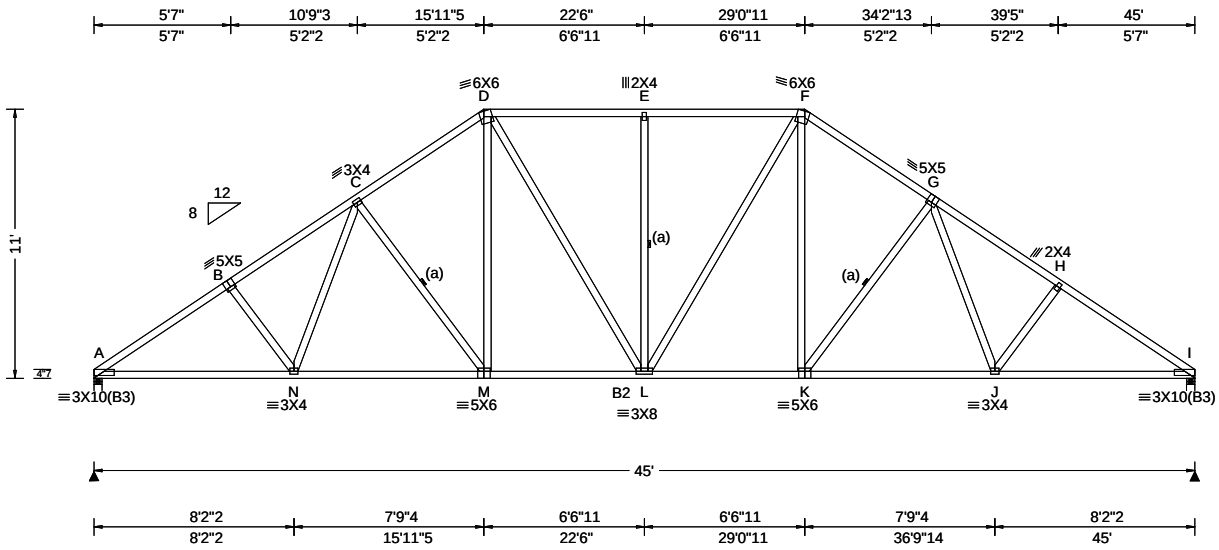
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637769 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** D07	Cust: R 215 JRef:1Xa92150006 T31 / DrwNo: 309.21.1155.50909 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.78 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
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	E	999	240
VERT(CL): 0.361	E	999	180
HORZ(LL): 0.083	I	-	-
HORZ(TL): 0.152	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.532
Max BC CSI: 0.883
Max Web CSI: 0.513

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	2186	/-	/-	/1128	/32	/318
I	2186	/-	/-	/1128	/32	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.8
I Brg Wid = 4.0 Min Req = 1.8
Bearings A & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	798	- 3508	E - F	794	- 2406
B - C	827	- 3315	F - G	806	- 2747
C - D	807	- 2747	G - H	827	- 3316
D - E	794	- 2406	H - I	799	- 3509

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - N	2832	- 580	L - K	2207	- 335
N - M	2538	- 459	K - J	2537	- 458
M - L	2207	- 335	J - I	2833	- 581

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - C	450	- 57	L - F	381	- 172
C - M	215	- 560	F - K	778	- 105
D - M	779	- 106	K - G	214	- 558
D - L	381	- 173	G - J	452	- 59
E - L	327	- 436			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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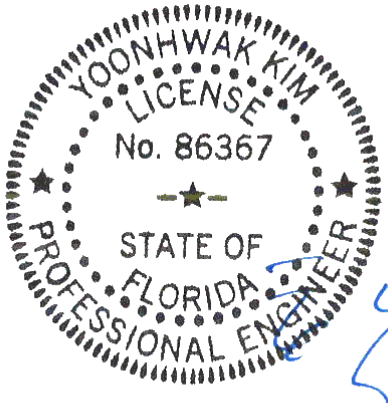
The overall height of this truss excluding overhang is 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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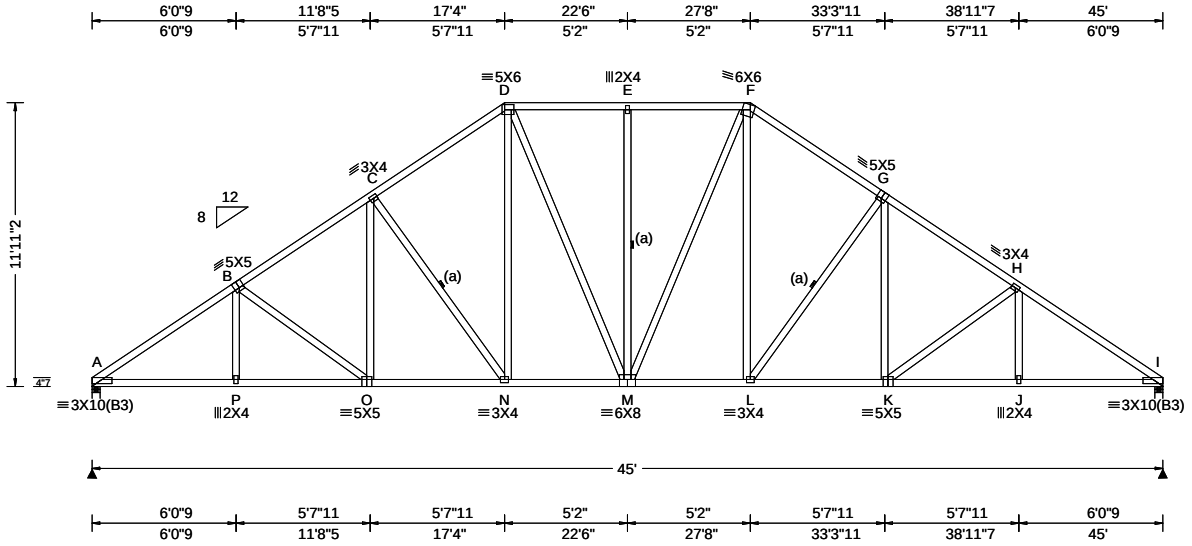
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635271 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** D08	Cust: R 215 JRef:1Xa92150006 T32 / DrwNo: 309.21.1155.50613 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.24 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
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.193	E	999	240
VERT(CL): 0.362	E	999	180
HORZ(LL): 0.097	I	-	-
HORZ(TL): 0.181	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.518
Max BC CSI: 0.889
Max Web CSI: 0.470

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	2127	/-	/-	/1133	/32	/346
I	2127	/-	/-	/1133	/32	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 2.5
I Brg Wid = 4.0 Min Req = 2.5
Bearings A & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	779	- 3388	E - F	765	- 2154
B - C	796	- 3023	F - G	801	- 2559
C - D	802	- 2560	G - H	797	- 3024
D - E	765	- 2154	H - I	780	- 3389

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	2727	- 556	M - L	2042	- 290
P - O	2726	- 557	L - K	2423	- 425
O - N	2424	- 425	K - J	2727	- 558
N - M	2042	- 290	J - I	2728	- 557

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - C	425	- 43	F - L	770	- 135
C - N	235	- 662	L - G	234	- 660
D - N	771	- 136	G - K	427	- 45

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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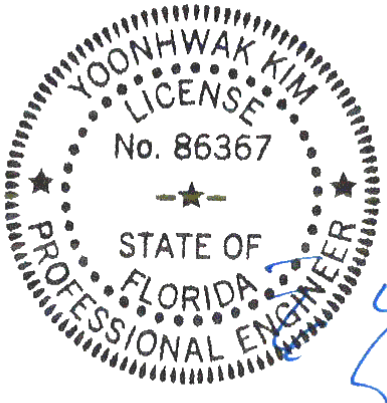

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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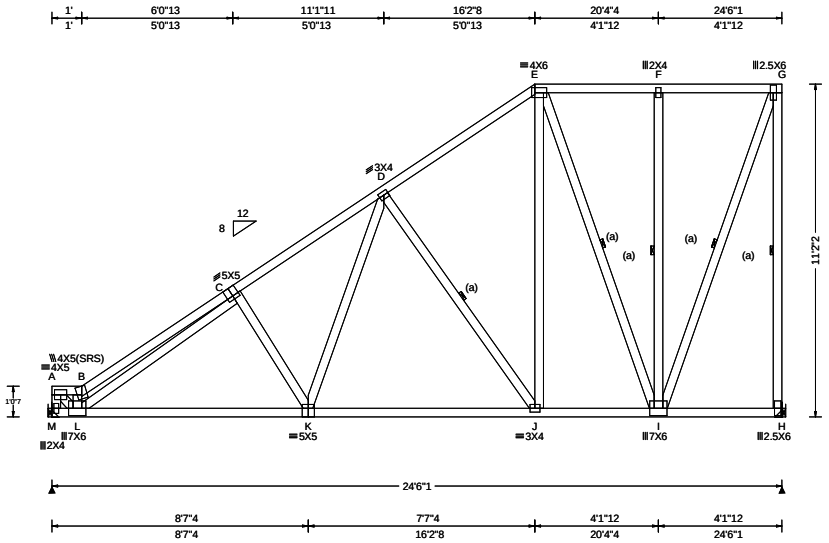
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635286 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** E01	Cust: R 215 JRef:1Xa92150006 T3 / DrwNo: 309.21.1155.50205 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.20 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.062 K	999	240
VERT(CL):	0.114 K	999	180
HORZ(LL):	0.023 C	-	-
HORZ(TL):	0.042 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.341
Max BC CSI: 0.777
Max Web CSI: 0.713

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	1135	/-	/-	/647	/4	/265
H	1253	/-	/-	/639	/203	/-

Wind reactions based on MWFRS
M Brg Wid = -
H Brg Wid = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	158	- 1250	D - E	246	- 870
B - C	345	- 1853	E - F	178	- 402
C - D	286	- 1501	F - G	178	- 402

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	162	- 377	K - J	998	- 387
L - K	1343	- 519	J - I	643	- 253

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - M	129	- 1092	E - J	771	- 132
A - L	1649	- 208	E - I	211	- 677
L - B	314	- 1195	I - G	1129	- 499
K - D	559	- 88	G - H	576	- 1163
D - J	236	- 622			

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

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=0' uses the following support conditions: 0'
Bearing M (0', 10'1"2) HUS26
Supporting Member: (1)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.
(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.

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 11-2-2.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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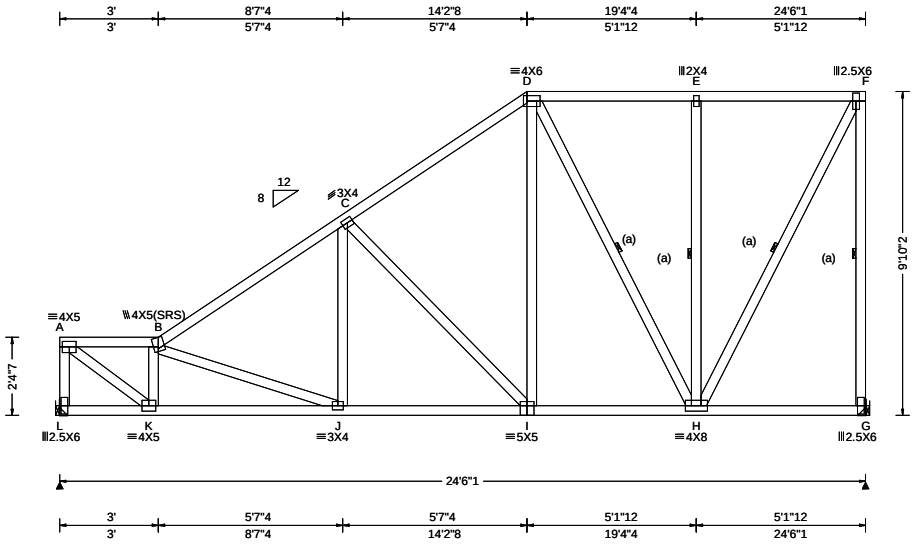
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 635289 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** E02	Cust: R 215 JRef:1Xa92150006 T47 DrwNo: 309.21.1155.49205 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.20 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

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.053	J	999	240
VERT(CL): 0.101	J	999	180
HORZ(LL): 0.018	A	-	-
HORZ(TL): 0.035	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.416
Max BC CSI: 0.452
Max Web CSI: 0.672

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1076	/-	/-	/609	/30	/195
G	1204	/-	/-	/603	/202	/-

Wind reactions based on MWFRS
L Brg Wid = -
G Brg Wid = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	328	-1296	D - E	258	-523
B - C	343	-1419	E - F	258	-523
C - D	341	-988			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	1424	-648	I - H	733	-336
J - I	1099	-482			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - L	325	-1053	D - H	164	-444
A - K	1628	-410	E - H	399	-372
K - B	306	-918	H - F	1102	-543
C - I	213	-530	F - G	610	-1101
D - I	561	-103			

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

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=0' uses the following support conditions: 0'
Bearing L (0', 10'1"2) HUS26
Supporting Member: (1)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.
(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.

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 9-10-2.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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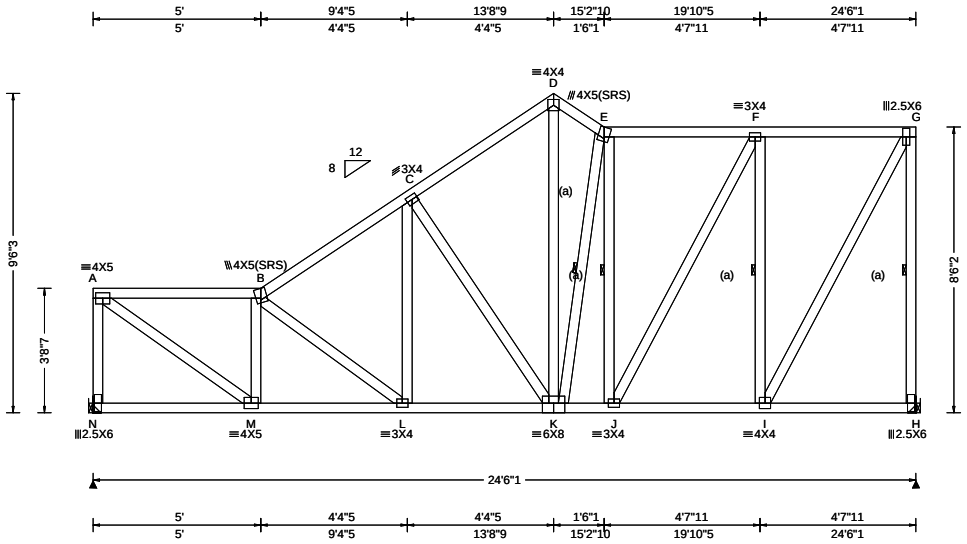
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 635292 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** E03	Cust: R 215 JRef:1Xa92150006 T67 / DrwNo: 309.21.1155.49457 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.70 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.055	L	999	240
VERT(CL): 0.107	L	999	180
HORZ(LL): 0.019	A	-	-
HORZ(TL): 0.037	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.383
Max BC CSI: 0.340
Max Web CSI: 0.856

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1055	/-	/-	/569	/51	/154
H	1178	/-	/-	/584	/176	/-

Wind reactions based on MWFRS
N Brg Wid = -
H Brg Wid = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	379	- 1213	D - E	389	- 874
B - C	384	- 1292	E - F	335	- 766
C - D	364	- 951	F - G	248	- 532

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1279	- 586	K - J	777	- 340
L - K	1000	- 428	J - I	559	- 266

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	418	- 1012	J - F	452	- 150
A - M	1485	- 459	F - I	506	- 762
M - B	324	- 780	I - G	1109	- 517
C - K	214	- 490	G - H	579	- 1093
D - K	742	- 327			

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

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=0' uses the following support conditions: 0'
Bearing N (0', 10'1"2) LUS26
Supporting Member: (1)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.
(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

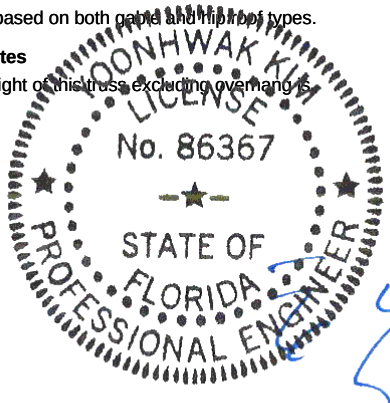
Wind loads based on MWFRS with additional C&C member design.

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 9-6-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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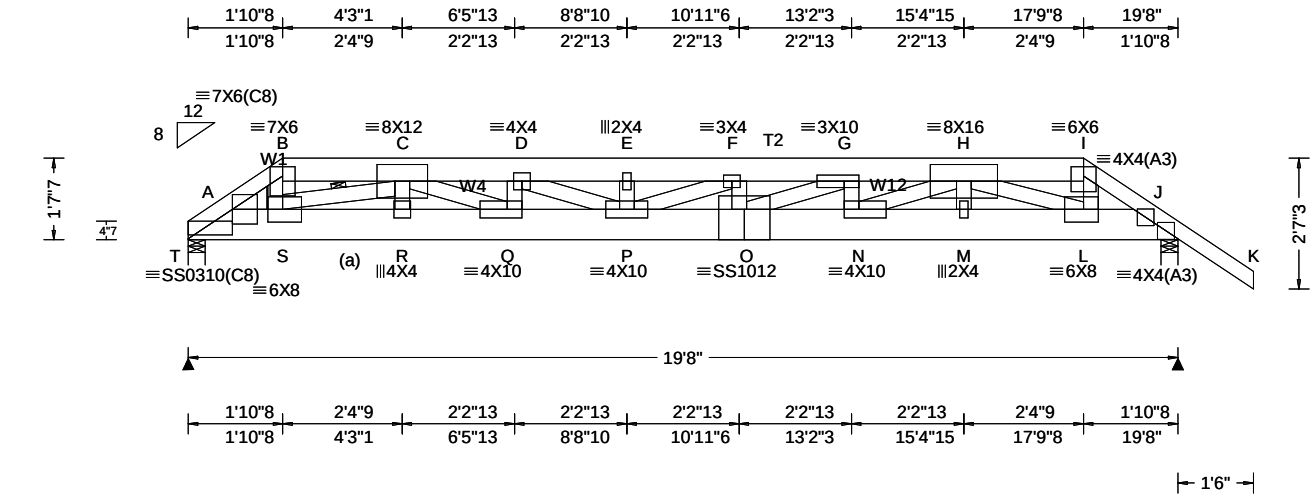
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637991 HIPS FROM: CDM Page 1 of 2	Ply: 3 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** G01		Cust: R 215 JRef:1Xa92150006 T81 DrwNo: 309.21.1259.46677 / YK 11/05/2021	

3 Complete Trusses Required



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.384	P	605	240
VERT(CL): 0.766	P	303	180
HORZ(LL): 0.059	B	-	-
HORZ(TL): 0.118	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.582
Max BC CSI: 0.737
Max Web CSI: 0.990

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	11177	/-	/-	/-	/977	/-
J	6918	/-	/-	/-	/1046	/-

Wind reactions based on MWFRS
T Brg Wid = 4.0 Min Req = 3.1
J Brg Wid = 4.0 Min Req = 1.9
Bearings T & 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.
A - B	539	-5671	F - G	1817	-13604
B - C	455	-4797	G - H	1627	-11371
C - D	1351	-12226	H - I	491	-3378
D - E	1650	-13631	I - J	583	-3999
E - F	1650	-13631			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - S	4799	-455	O - N	11661	-1654
S - R	9340	-955	N - M	7568	-1095
R - Q	9340	-955	M - L	7568	-1095
Q - P	12422	-1393	L - J	3379	-491
P - O	13615	-1799			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - S	2846	-257	O - G	2229	-187
S - C	550	-4996	G - N	101	-1122
C - R	688	-17	N - H	4291	-601
C - Q	3256	-447	H - L	664	-4608
Q - D	163	-756	I - L	2004	-281
D - P	1365	-290			

Lumber

Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x8 SP 2400f-2.0E;
Webs: 2x4 SP #3; W1,W4,W12 2x4 SP #2;
Lt Wedge: 2x6 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 3.50" o.c. (Each Row)
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.

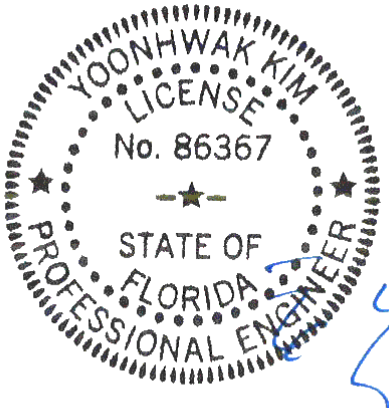
Wind

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 1-7-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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ALPINE
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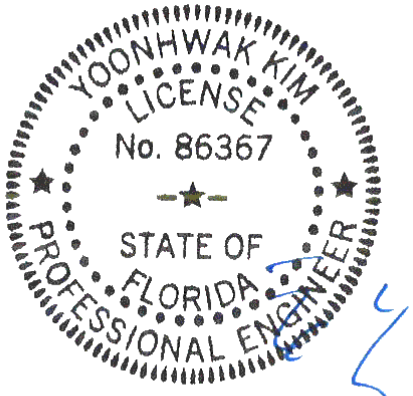
Special Loads

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

TC: From	64 plf at	0.00 to	64 plf at	1.87	
TC: From	32 plf at	1.87 to	32 plf at	17.79	
TC: From	64 plf at	17.79 to	64 plf at	21.17	
BC: From	10 plf at	0.00 to	10 plf at	19.67	
BC: From	5 plf at	19.67 to	5 plf at	21.17	

TC: 14 lb Conc. Load at 1.91,17.76
TC: 15 lb Conc. Load at 3.94, 5.94, 7.94, 9.83 11.73,13.73,15.73
BC: 2131 lb Conc. Load at 0.60
BC: 17 lb Conc. Load at 1.91,17.76
BC: 2188 lb Conc. Load at 2.60
BC: 26 lb Conc. Load at 3.94, 5.94, 7.94, 9.83 11.73,13.73,15.73
BC: 2120 lb Conc. Load at 4.60
BC: 2069 lb Conc. Load at 6.60
BC: 2029 lb Conc. Load at 8.60
BC: 1838 lb Conc. Load at 10.60
BC: 4321 lb Conc. Load at 12.60



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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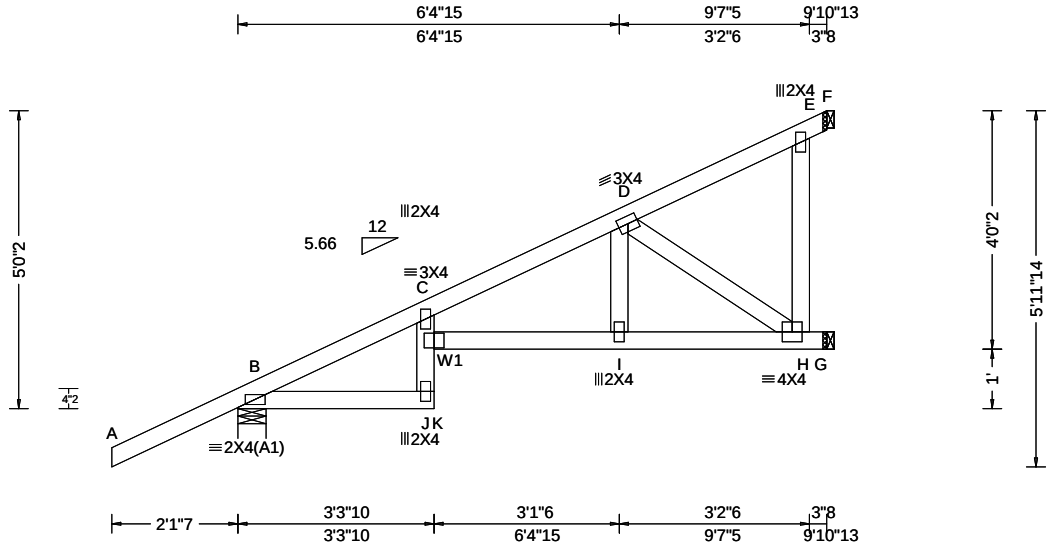
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635464 / HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** HJ01	Cust: R 215 JRef:1Xa92150006 T40 / DrwNo: 309.21.1155.50581 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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: NA
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.156	J	748	240
VERT(CL): 0.321	J	364	180
HORZ(LL): 0.075	C	-	-
HORZ(TL): 0.154	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.728
Max BC CSI: 0.415
Max Web CSI: 0.618

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	472	/-	/-	/-	/90	/-
G	368	/-	/-	/-	/92	/-
F	266	/-	/-	/-	/7	/-

Wind reactions based on MWFRS
B Brg Wid = 5.7 Min Req = 1.5
G Brg Wid = 1.5
F Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	65	-408	C - D	124	-769

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	719	-108	I - H	710	-109

Maximum Web Forces Per Ply (lbs)

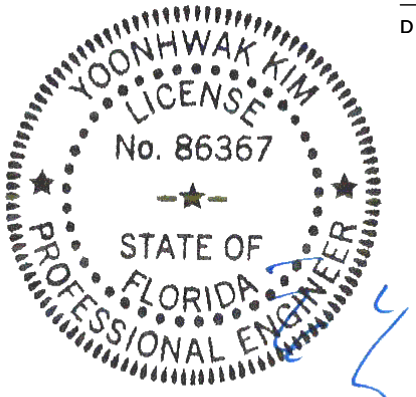
Webs	Tens.	Comp.
D - H	130	-848

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W1 2x4 SP #2;

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-0-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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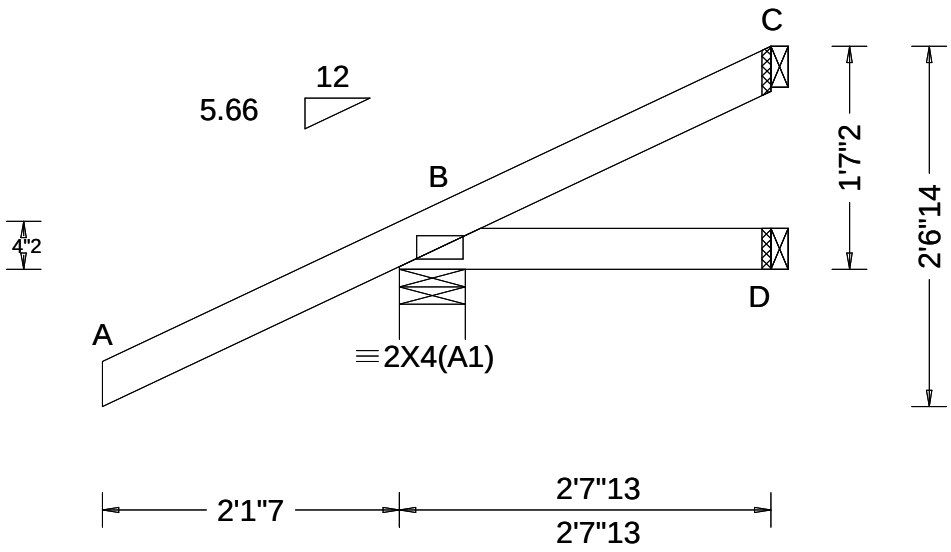
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635476 / HIP_ FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** HJ02	Cust: R 215 JRef:1Xa92150006 T21 / DrwNo: 309.21.1155.51220 / YK 11/05/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
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: NA 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: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.276 Max BC CSI: 0.079 Max Web CSI: 0.000 VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	162	/-	/-	/-	/41	/-
D	-	/-9	/-	/9	/-	/-
C	-	/0	/-	/-	/2	/-

Wind reactions based on MWFRS
B Brg Wid = 5.7 Min Req = 1.5
D Brg Wid = 1.5
C Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Loading

Hipjack supports 1-10-8 setback jacks with no webs.

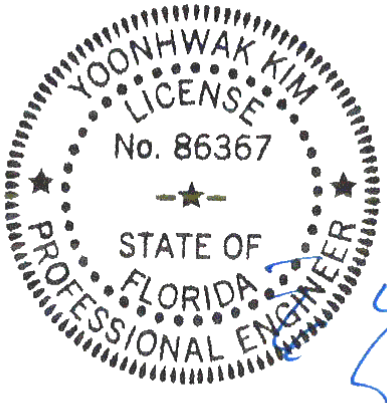
Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 1-7-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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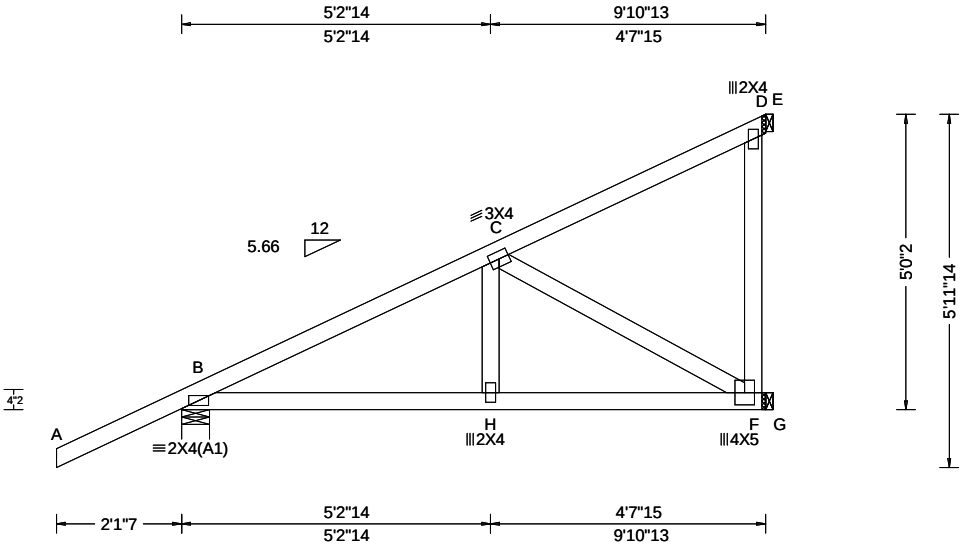
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637808 / HIP_ FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** HJ04	Cust: R 215 JRef:1Xa92150006 T54 DrwNo: 309.21.1155.51205 / YK 11/05/2021



Loading Criteria (psf)
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 Criteria
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: NA
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.013	H	999	240
VERT(CL): 0.026	H	999	180
HORZ(LL): 0.004	G	-	-
HORZ(TL): 0.009	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.617
Max BC CSI: 0.395
Max Web CSI: 0.302

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	472	/-	/-	/-	/90	/-
F	582	/-	/-	/-	/195	/-
D	52	/-	/-	/96	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 5.7 Min Req = 1.5
F Brg Wid = 1.5
D Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	94	-611

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	526	-77	H - G	522	-79

Maximum Web Forces Per Ply (lbs)

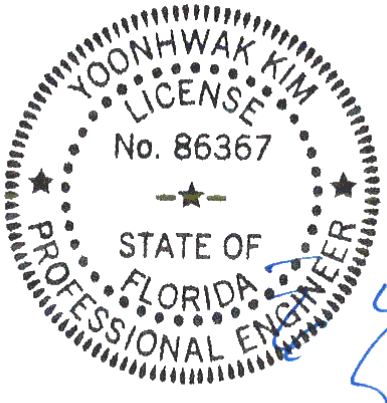
Webs	Tens.	Comp.
C - G	91	-600

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-0-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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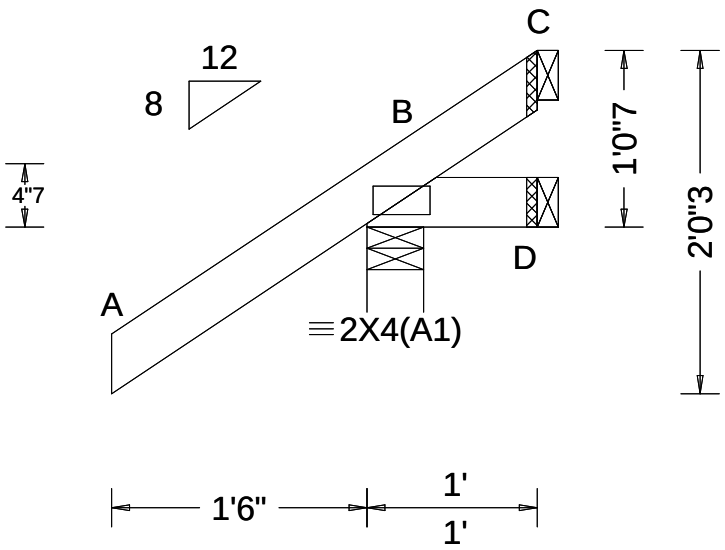
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635165 / JACK FROM: CDM	Ply: 1 Qty: 10	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J01	Cust: R 215 JRef:1Xa92150006 T36 / DrwNo: 309.21.1155.49940 / YK 11/05/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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): -0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.261 Max BC CSI: 0.042 Max Web CSI: 0.000 VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	261	/-	/-	/221	/63	/50
D	5	/-16	/-	/15	/17	/-
C	-	/-57	/-	/37	/68	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
D Brg Wid = 1.5
C Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

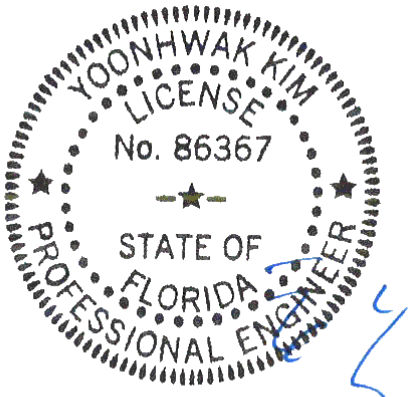
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 1-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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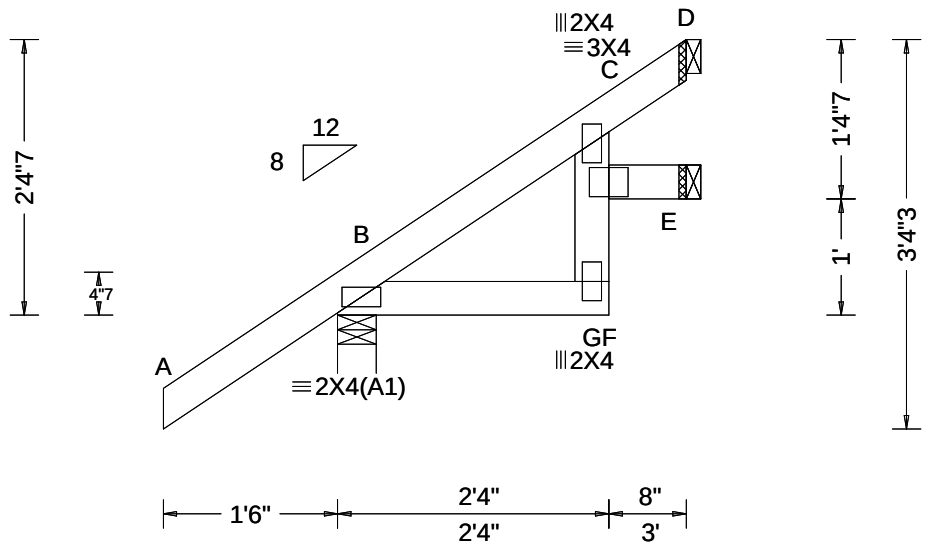
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635167 / JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J02	Cust: R 215 JRef:1Xa92150006 T77 / DrwNo: 309.21.1155.50439 / YK 11/05/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.003 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.005 F 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 C - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.004 C - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.261
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.048
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.031
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	268	/-	/-	/200	/29	/98
E	21	/-	/-	/16	/1	/-
D	73	/-	/-	/54	/32	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 1.5
D Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

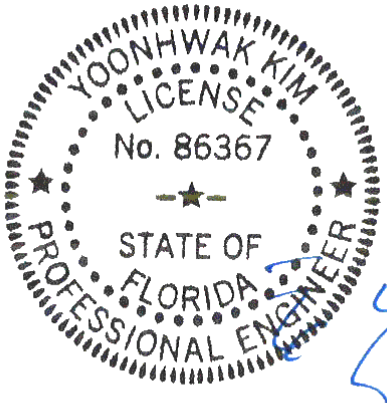
Wind

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 2-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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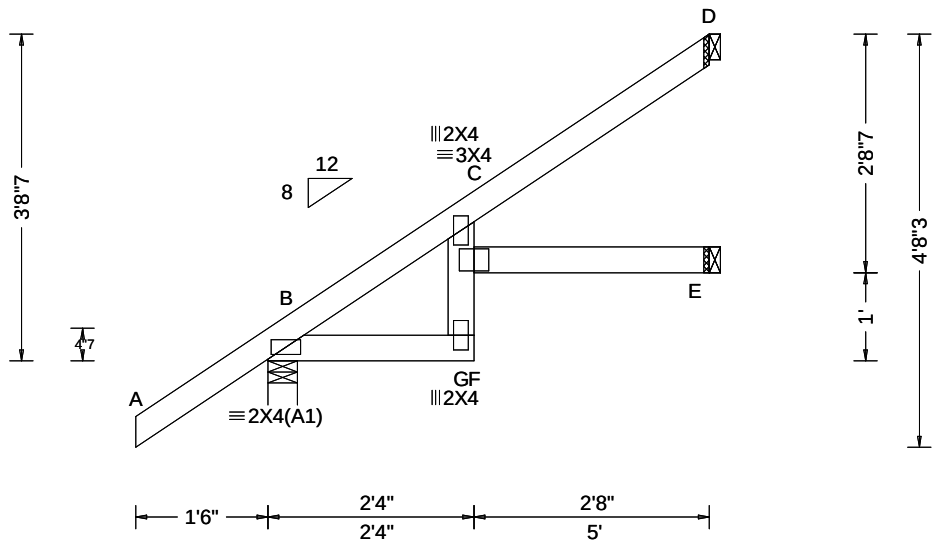
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635169 / JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J03	Cust: R 215 JRef:1Xa92150006 T78 / DrwNo: 309.21.1155.50517 / YK 11/05/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.050 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.101 F 575 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.036 C - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.072 C - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.420
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.117
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.121
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	339	/-	/-	/240	/22	/145
E	63	/-	/-	/37	/-	/-
D	144	/-	/-	/107	/74	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 1.5
D Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

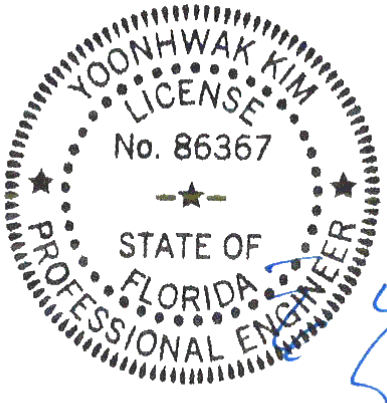
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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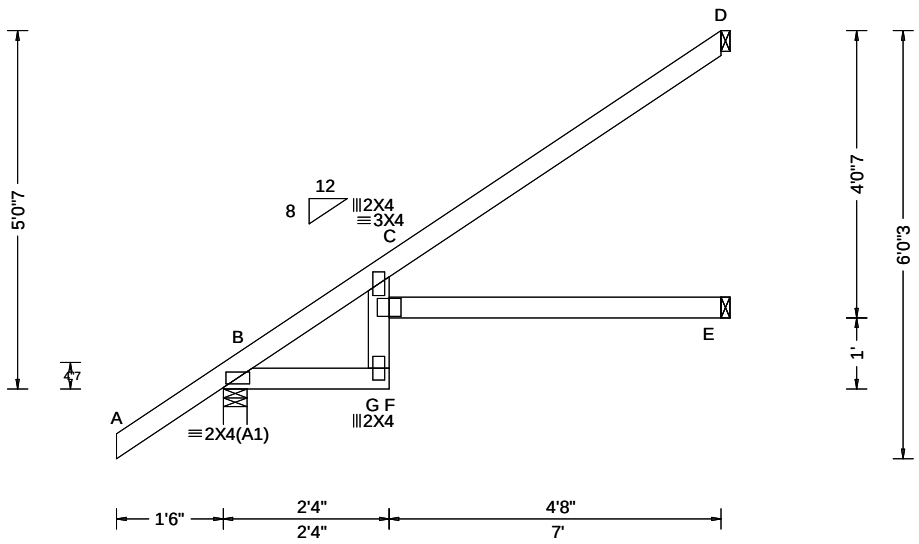
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635171 / EJAC FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J04	Cust: R 215 JRef:1Xa92150006 T73 / DrwNo: 309.21.1155.51033 / YK 11/05/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.178 F 461 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.362 F 227 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.127 C - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.258 C - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.933
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.346
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.277
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	417	/-	/-	/287	/18	/192
E	106	/-	/-	/62	/-	/-
D	207	/-	/-	/154	/111	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 1.5
D Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

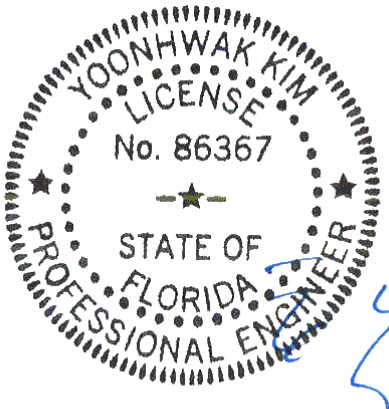
Wind

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 5-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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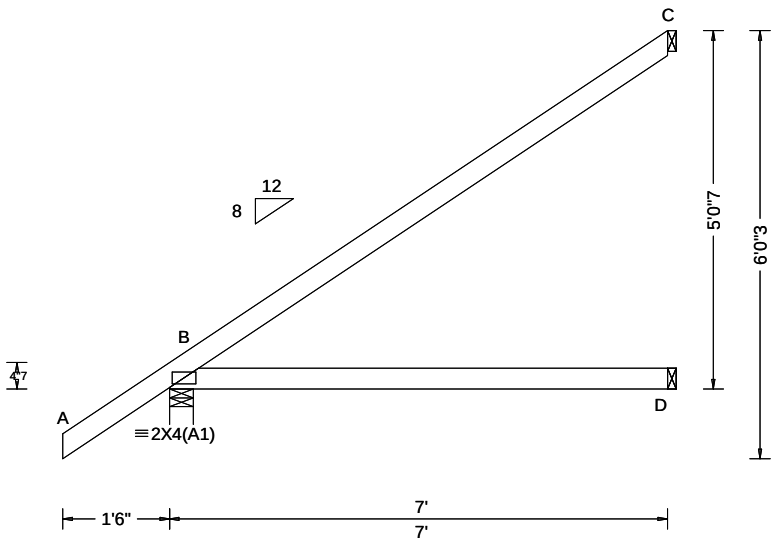
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635173 / EJAC FROM: CDM	Ply: 1 Qty: 35	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J05	Cust: R 215 JRef:1Xa92150006 T37 / DrwNo: 309.21.1155.50346 / YK 11/05/2021



Loading Criteria (psf)
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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.013 B - -
HORZ(TL): 0.027 B - -
Creep Factor: 2.0
Max TC CSI: 0.747
Max BC CSI: 0.527
Max Web CSI: 0.000

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	417	/-	/-	/287	/18	/192
D	131	/-	/-	/75	/-	/-
C	193	/-	/-	/140	/113	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
D Brg Wid = 1.5
C Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

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

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

Additional Notes
The overall height of this truss excluding overhang is 5-0-7.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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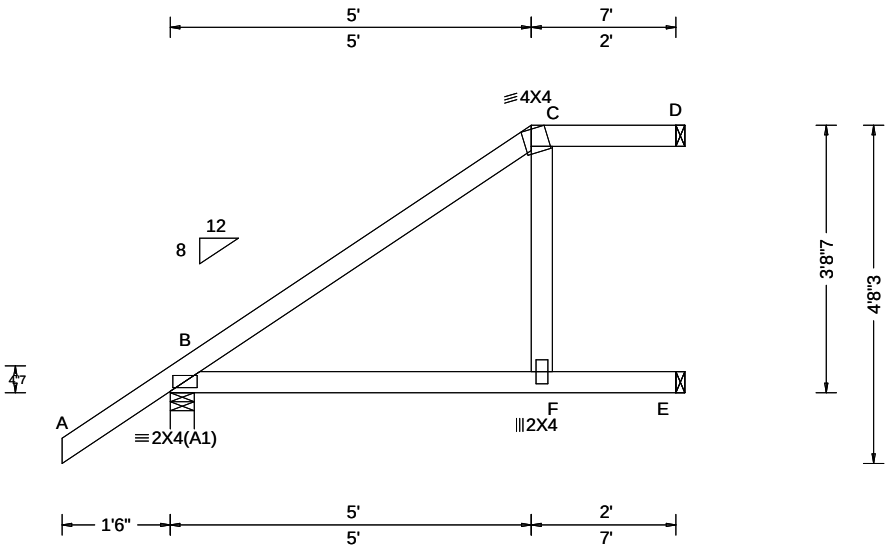
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635434 / EJAC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J05	Cust: R 215 JRef:1Xa92150006 T68 / DrwNo: 309.21.1155.49830 / YK 11/05/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.095 C 868 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.193 C 427 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.065 C - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.133 C - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.556
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.523
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.210
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	417	/-	/-	/294	/43	/146
E	165	/-	/-	/115	/47	/-
D	109	/-	/-	/57	/21	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 1.5
D Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

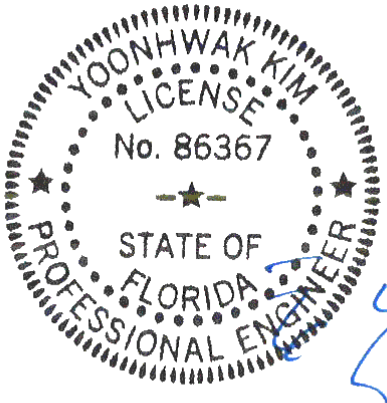
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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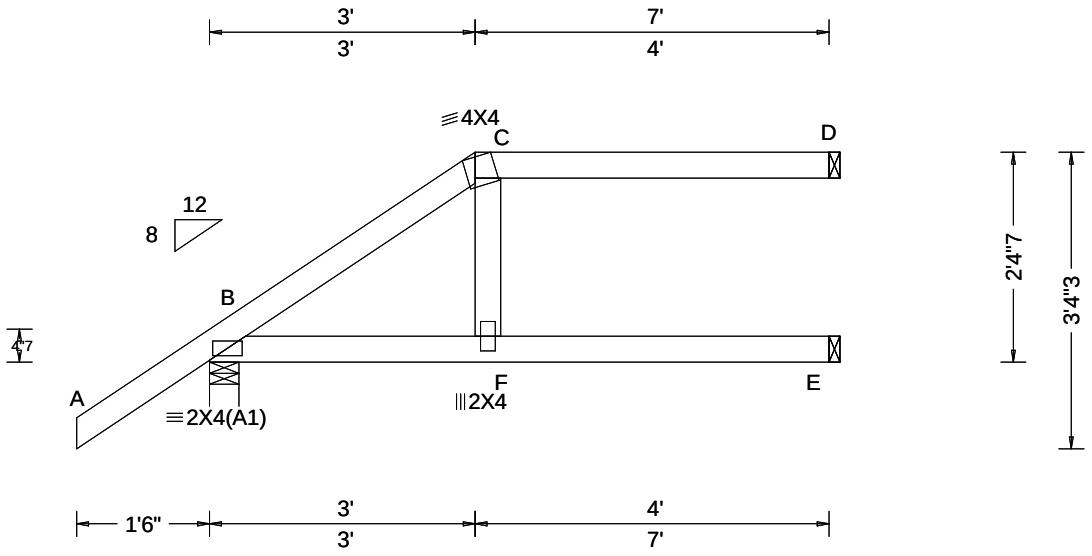
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635436 / EJAC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J05	Cust: R 215 JRef:1Xa92150006 T66 / DrwNo: 309.21.1155.50642 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.130	C	632	240
VERT(CL): 0.265	C	310	180
HORZ(LL): 0.085	C	-	-
HORZ(TL): 0.173	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.513
Max BC CSI: 0.541
Max Web CSI: 0.158

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	417	/-	/-	/286	/61	/99
E	126	/-	/-	/76	/2	/-
D	163	/-	/-	/67	/52	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 1.5
D Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

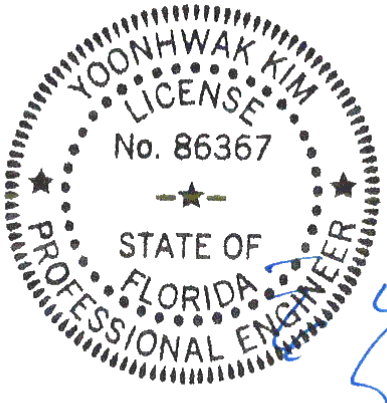
Wind

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 2-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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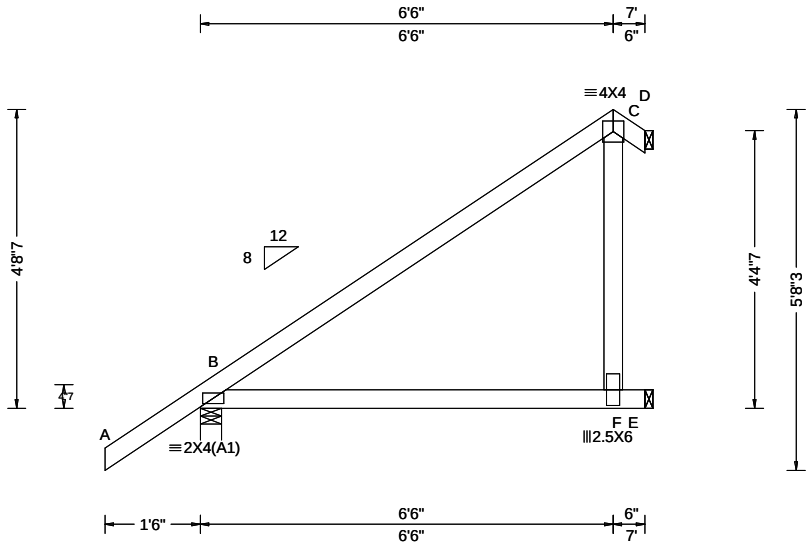
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635348 / EJAC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J06	Cust: R 215 JRef:1Xa92150006 T64 / DrwNo: 309.21.1155.50362 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.023	C	999	240
VERT(CL): 0.047	C	999	180
HORZ(LL): 0.036	D	-	-
HORZ(TL): 0.074	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.661
Max BC CSI: 0.513
Max Web CSI: 0.142

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	417	/-	/-	/288	/29	/175
E	322	/-	/-	/219	/213	/-
D	127	/-47	/-	/132	/34	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 1.5
D Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

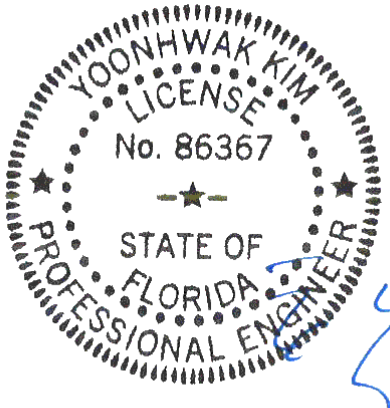
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - F	479 - 260

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 4-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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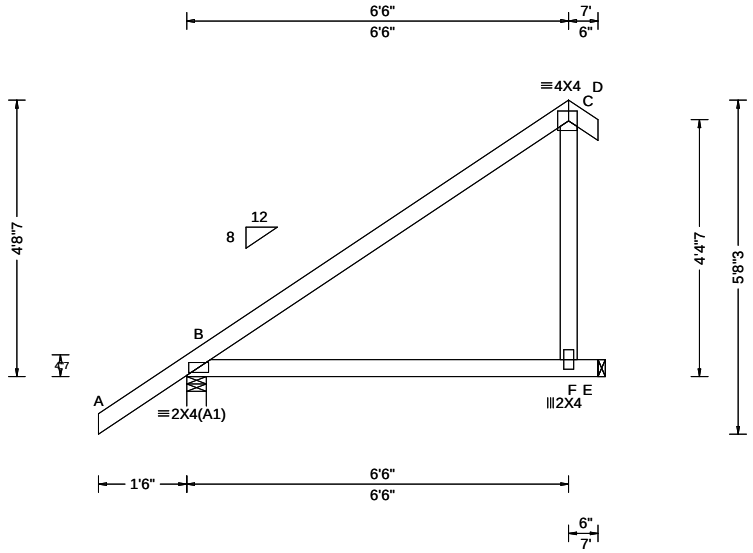
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635351 / EJAC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J07	Cust: R 215 JRef:1Xa92150006 T65 / DrwNo: 309.21.1155.50736 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.022	C	999	240
VERT(CL): 0.047	C	999	180
HORZ(LL): 0.037	D	-	-
HORZ(TL): 0.075	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.677
Max BC CSI: 0.554
Max Web CSI: 0.081

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	417	/-	/-	/288	/29	/175
E	274	/-	/-	/204	/81	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
E Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

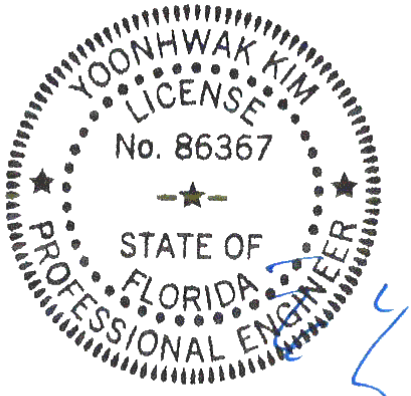
Wind

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 4-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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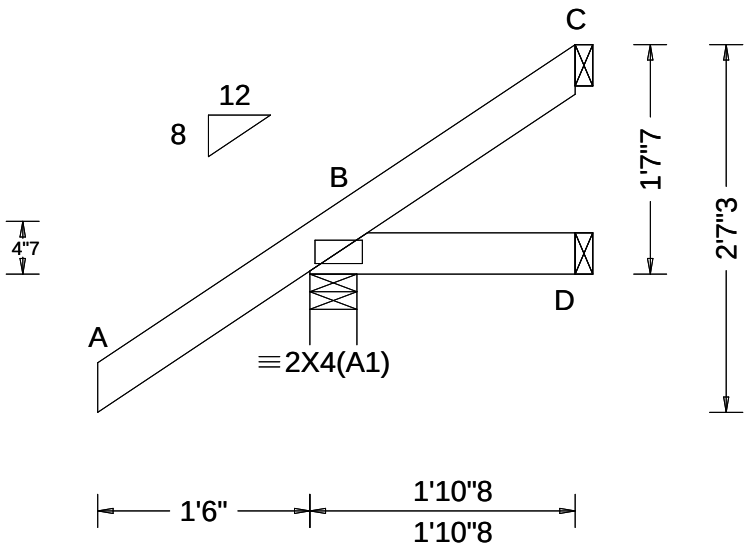
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635179 / EJAC FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J08	Cust: R 215 JRef:1Xa92150006 T20 / DrwNo: 309.21.1155.50674 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	NA		
VERT(CL):	NA		
HORZ(LL):	-0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.261
Max BC CSI: 0.057
Max Web CSI: 0.000

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	242	/-	/-	/191	/38	/71
D	26	/-	/-	/22	/5	/-
C	15	/-	/-	/28	/18	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
D Brg Wid = 1.5
C Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

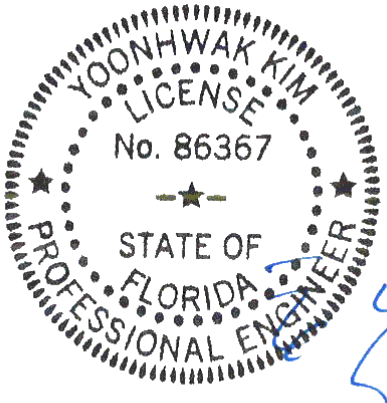
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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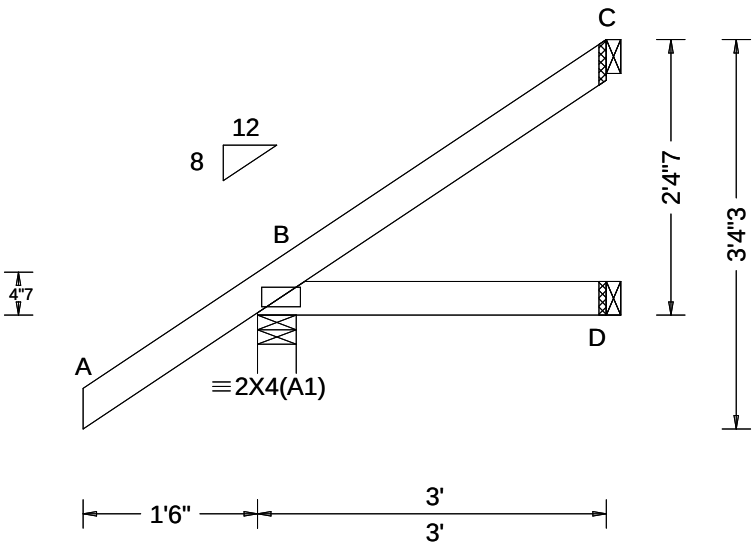
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635237 / JACK FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J11	Cust: R 215 JRef:1Xa92150006 T35 / DrwNo: 309.21.1155.50987 / YK 11/05/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.201
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.067
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	268	/-	/-	/200	/29	/98
D	50	/-	/-	/32	/-	/-
C	64	/-	/-	/43	/43	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
D Brg Wid = 1.5
C Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

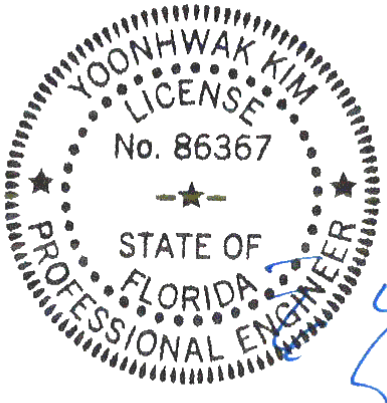
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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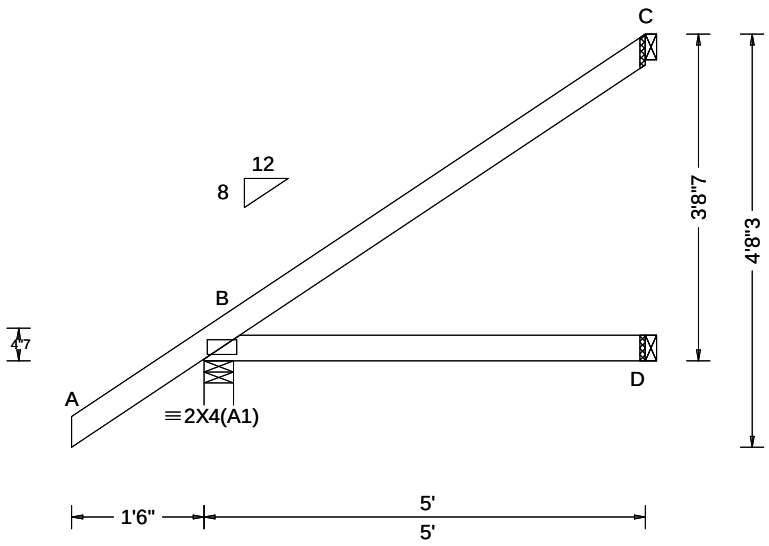
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635239 / JACK FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J12	Cust: R 215 JRef:1Xa92150006 T19 / DrwNo: 309.21.1155.50612 / YK 11/05/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.008 B - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.367
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.242
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	339	/-	/-	/240	/22	/145
D	91	/-	/-	/52	/-	/-
C	131	/-	/-	/94	/79	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5
D Brg Wid = 1.5
C Brg Wid = 1.5
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

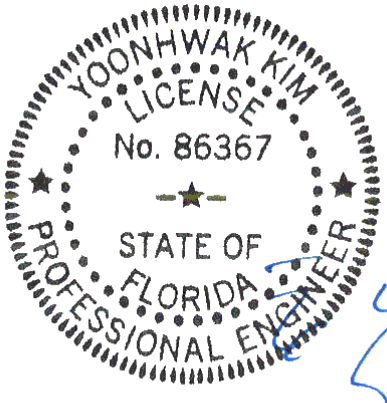
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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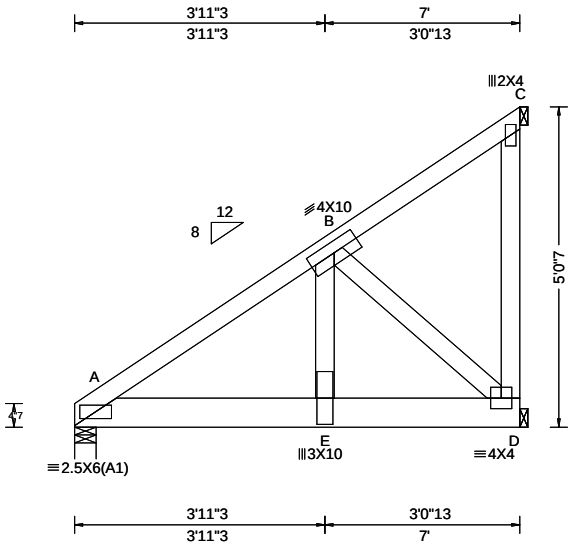
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635295 / EJAC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J13	Cust: R 215 JRef:1Xa92150006 T48 DrwNo: 309.21.1155.50815 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.018 E	999	240
VERT(CL):	0.035 E	999	180
HORZ(LL):	0.008 A	-	-
HORZ(TL):	0.015 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.361
Max BC CSI: 0.418
Max Web CSI: 0.801

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	2050	/-	/-	/-	/59	/-
D	1481	/-	/-	/-	/59	/-
C	30	/-	/-	/-	/13	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.7
D Brg Wid = 1.5
C Brg Wid = 1.5
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	82	-1807

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	1500	-60	E - D	1448	-59

Maximum Web Forces Per Ply (lbs)

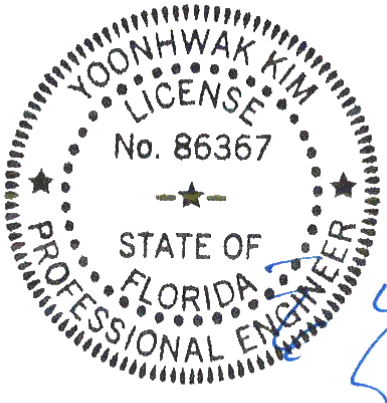
Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - B	2103	-48	B - D	78	-1926

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 32 plf at 0.00 to 32 plf at 7.00
BC: From 10 plf at 0.00 to 10 plf at 7.00
BC: 1135 lb Conc. Load at 1.06
BC: 1076 lb Conc. Load at 3.06
BC: 1055 lb Conc. Load at 5.06

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 5-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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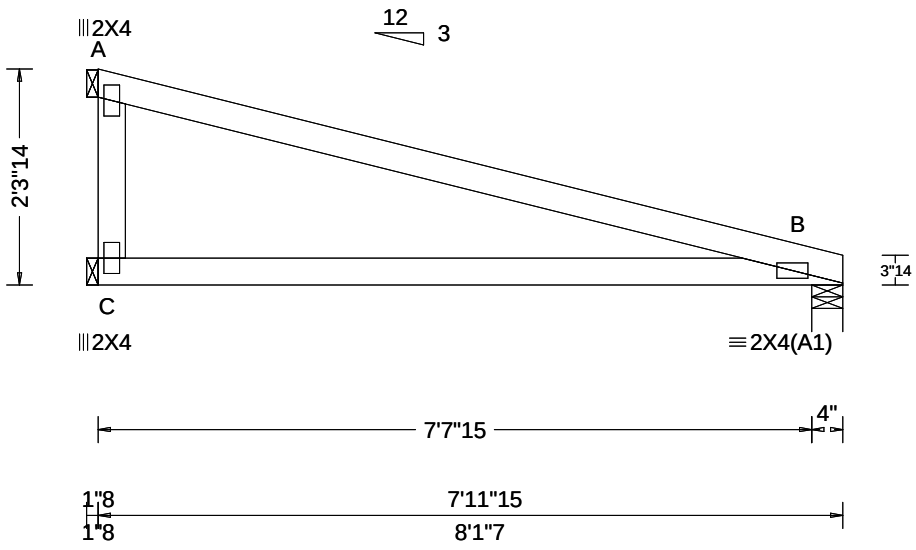
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635187 / MONO FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J14	Cust: R 215 JRef:1Xa92150006 T59 / DrwNo: 309.21.1155.50049 / YK 11/05/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
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): 0.077 B 999 240 VERT(CL): 0.156 B 613 180 HORZ(LL): -0.023 B - - HORZ(TL): 0.047 B - - Creep Factor: 2.0 Max TC CSI: 0.850 Max BC CSI: 0.610 Max Web CSI: 0.324 VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C	154	/-	/-	/84	/-	/70
A	208	/-	/-	/80	/86	/-
B	328	/-	/-	/169	/51	/-

Wind reactions based on MWFRS
C Brg Wid = 1.5 Min Req = -
A Brg Wid = 1.5
B Brg Wid = 4.0
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

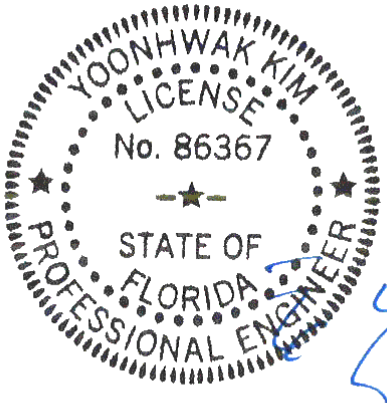
Wind loads based on MWFRS with additional C&C member design.

Left 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 2-3-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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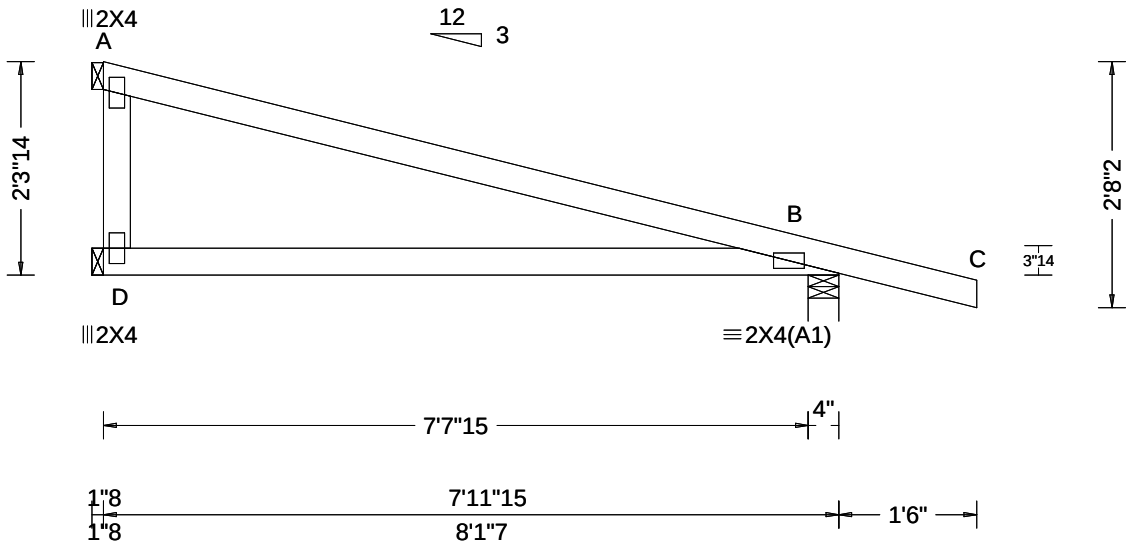
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635183 / MONO FROM: CDM	Ply: 1 Qty: 11	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J15	Cust: R 215 JRef:1Xa92150006 T46 / DrwNo: 309.21.1155.50939 / YK 11/05/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
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/defl L/# VERT(LL): 0.070 B 999 240 VERT(CL): 0.137 B 699 180 HORZ(LL): -0.021 B - - HORZ(TL): 0.041 B - - Creep Factor: 2.0 Max TC CSI: 0.806 Max BC CSI: 0.581 Max Web CSI: 0.305 VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	151	/-	/-	/83	/-	/79
A	203	/-	/-	/78	/65	/-
B	436	/-	/-	/237	/96	/-

Wind reactions based on MWFRS
D Brg Wid = 1.5 Min Req = -
A Brg Wid = 1.5
B Brg Wid = 4.0
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

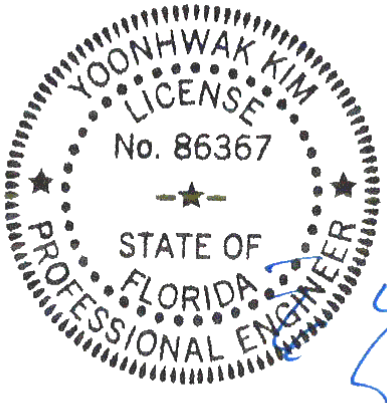
Wind loads based on MWFRS with additional C&C member design.

Left 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 2-3-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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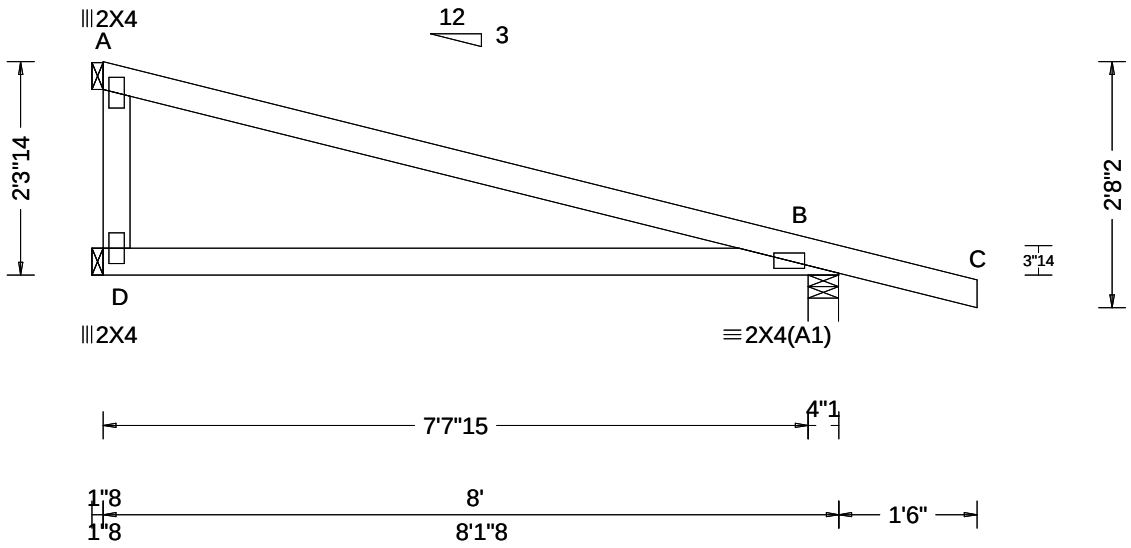
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635185 / COMN FROM: CDM	Ply: 1 Qty: 8	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** J16	Cust: R 215 JRef:1Xa92150006 T58 / DrwNo: 309.21.1155.50705 / YK 11/05/2021



Loading Criteria (psf)
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 Criteria
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: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.089	B	999	240
VERT(CL): 0.172	B	566	180
HORZ(LL): -0.023	B	-	-
HORZ(TL): 0.045	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.841
Max BC CSI: 0.607
Max Web CSI: 0.320

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs)

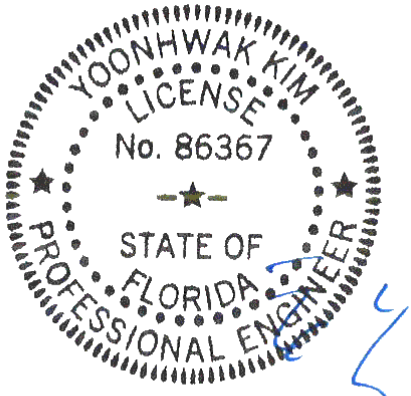
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	155	/-	/-	/85	/-	/79
A	207	/-	/-	/80	/66	/-
B	422	/-	/-	/233	/95	/-

Wind reactions based on MWFRS
D Brg Wid = 1.5 Min Req = -
A Brg Wid = 1.5
B Brg Wid = 4.0
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.
Left 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 2-3-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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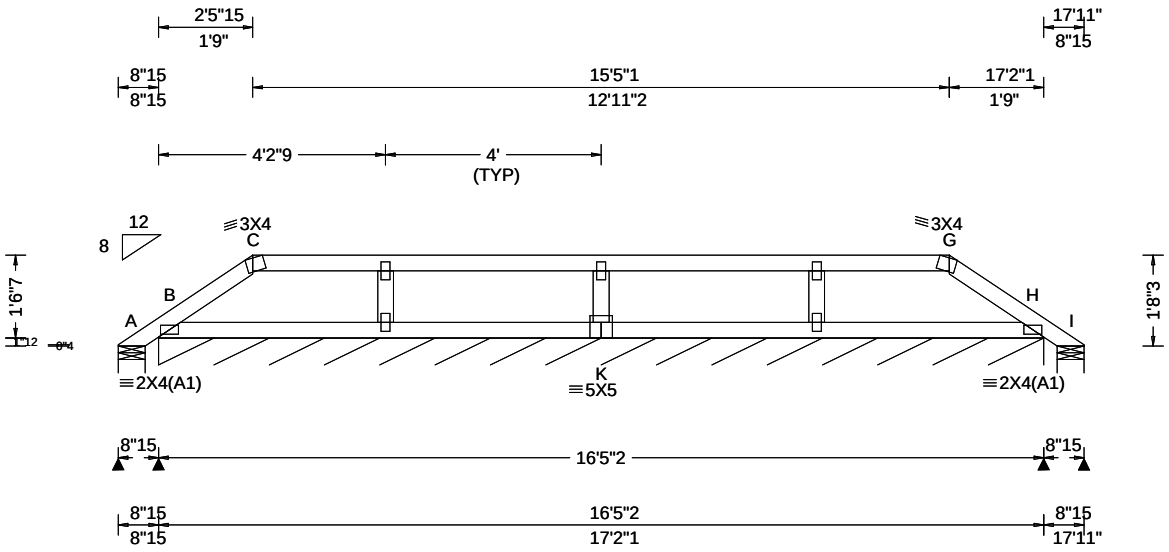
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635379 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB01	Cust: R 215 JRef:1Xa92150006 T56 / DrwNo: 309.21.1155.49689 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.63 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.17 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	G	999	240
VERT(CL): 0.007	G	999	180
HORZ(LL): 0.002	H	-	-
HORZ(TL): 0.003	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.175
Max BC CSI: 0.059
Max Web CSI: 0.049

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	9	/-5	/-	/37	/41	/45
B*	72	/-	/-	/47	/15	/-
I	8	/-9	/-	/10	/14	/-

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 197 Min Req = -
I Brg Wid = 5.9 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.

Wind

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

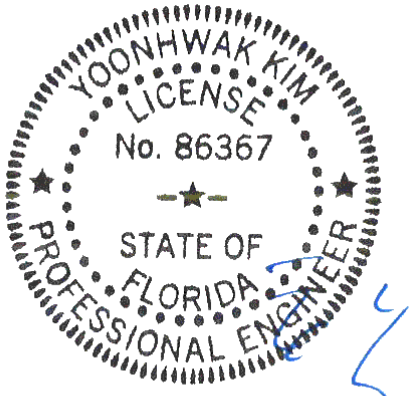
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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6750 Forum Drive
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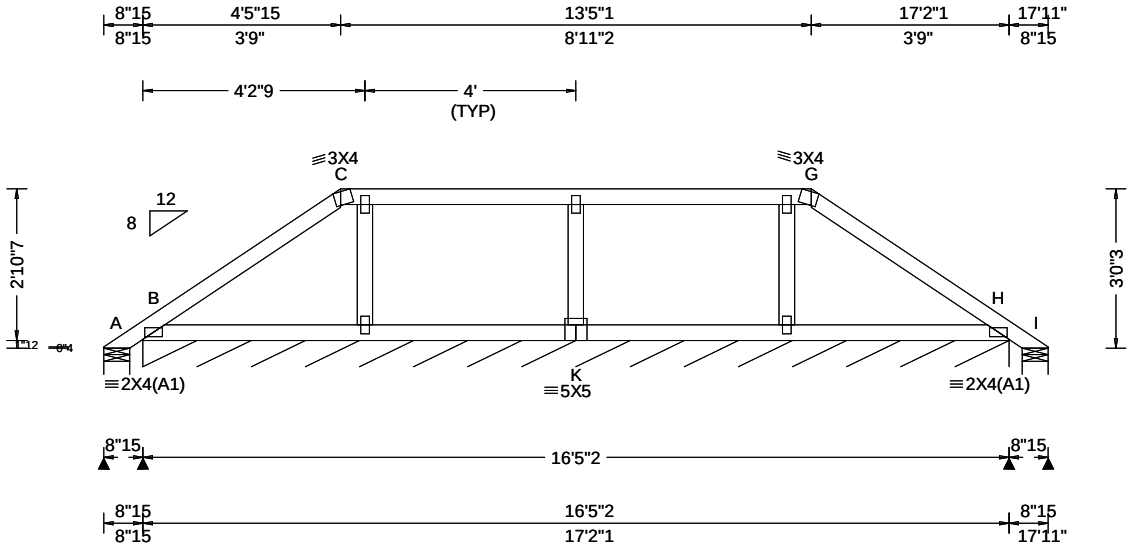
Orlando FL, 32821

SEQN: 635374 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB02	Cust: R 215 JRef:1Xa92150006 T45 / DrwNo: 309.21.1155.50173 / YK 11/05/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): -0.002 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 C 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 G - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.003 G - -
NCBCLL: 10.00	Mean Height: 21.63 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.177
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.072
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.057
	C&C Dist a: 3.17 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 21.01.01A.0521.20
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-55	/-	/81	/111	/82
B*	79	/-	/-	/52	/26	/-
I	-	/-55	/-	/34	/64	/-
B		/-114				
K		/-132				
H		/-114				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 197 Min Req = -
I Brg Wid = 5.9 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.

Wind

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

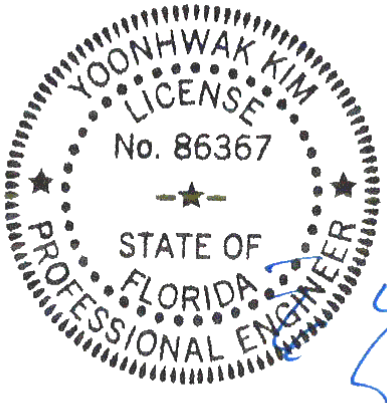
Wind loading based on both gable and hip roof types.

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 3-0-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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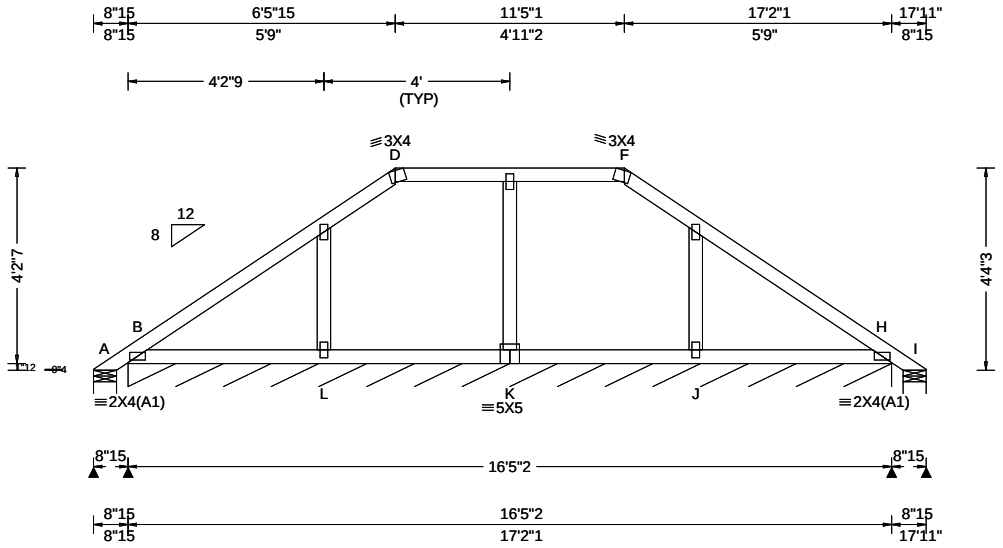
Suite 305
Orlando FL, 32821

SEQN: 635369 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB03	Cust: R 215 JRef:1Xa92150006 T60 / DrwNo: 309.21.1155.48754 / YK 11/05/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.007 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.014 F 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 D - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.009 D - -
NCBCLL: 10.00	Mean Height: 22.30 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.161
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.076
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.065
	C&C Dist a: 3.17 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-58	/-	/102	/131	/121
B*	79	/-	/-	/54	/27	/-
I	-	/-58	/-	/49	/68	/-
L		/-108				
J		/-108				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 197 Min Req = -
I Brg Wid = 5.9 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.

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.

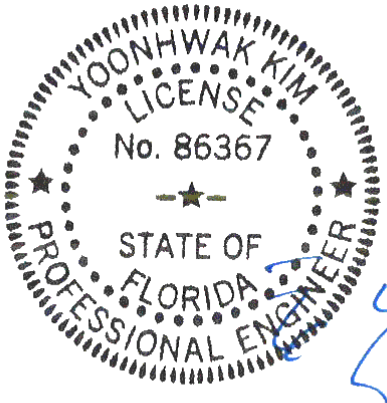
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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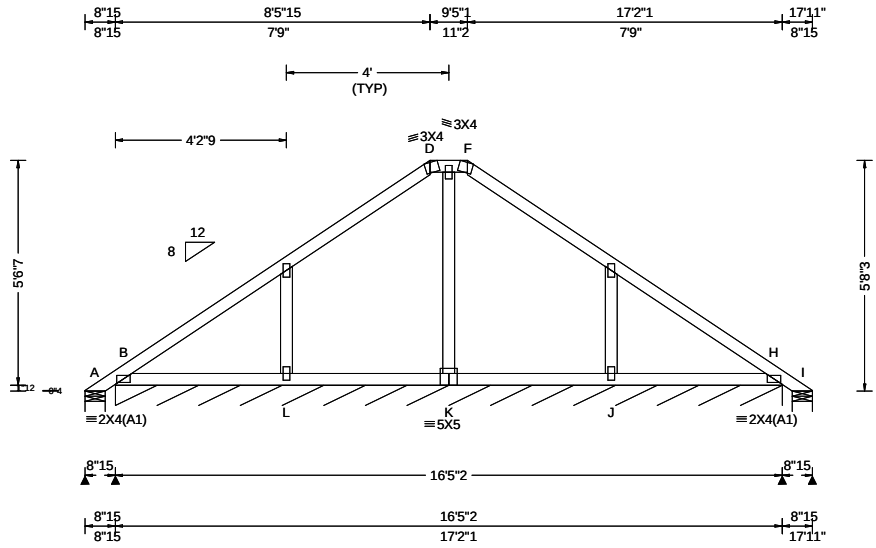
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 635364 / GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB04	Cust: R 215 JRef:1Xa92150006 T57 / DrwNo: 309.21.1155.50845 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 22.97 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.17 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	D	999	240
VERT(CL): 0.007	D	999	180
HORZ(LL): 0.003	F	-	-
HORZ(TL): 0.005	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.185
Max BC CSI: 0.076
Max Web CSI: 0.083

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-51	/-	/118	/145	/160
B*	78	/-	/-	/56	/17	/-
I	-	/-51	/-	/30	/57	/-
L		/-112				
J		/-113				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 197 Min Req = -
I Brg Wid = 5.9 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.

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.

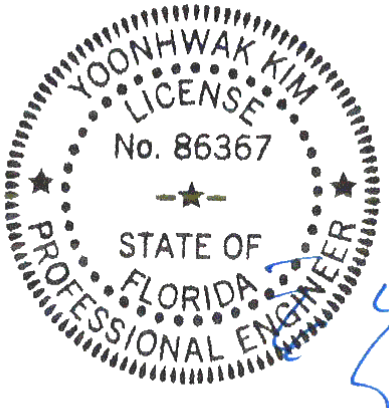
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 5-8-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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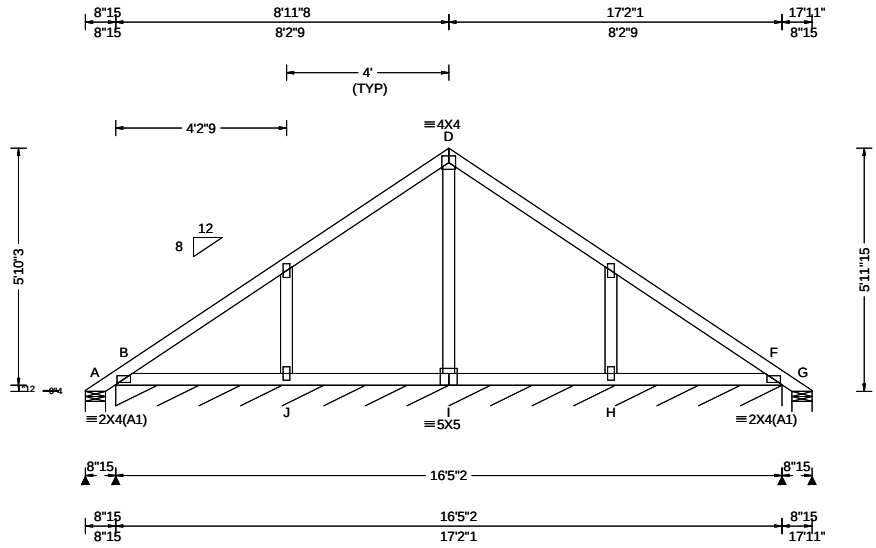
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635359 / GABL FROM: CDM	Ply: 1 Qty: 12	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB05	Cust: R 215 JRef:1Xa92150006 T61 / DrwNo: 309.21.1155.51095 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 17.79 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.17 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	D	999	240
VERT(CL): 0.002	D	999	180
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.074
Max Web CSI: 0.091

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-44	/-	/125	/147	/175
B*	78	/-	/-	/58	/10	/-
G	-	/-44	/-	/28	/51	/-
J		/-107				
H		/-108				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 197 Min Req = -
G Brg Wid = 5.9 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.

Wind

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

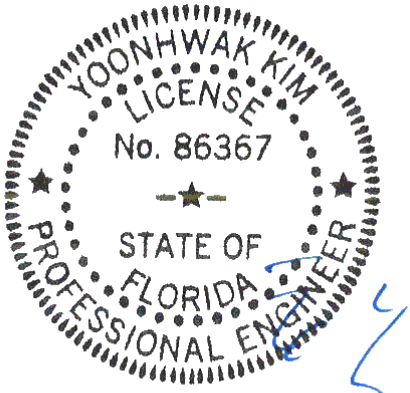
Wind loading based on both gable and hip roof types.

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 5-11-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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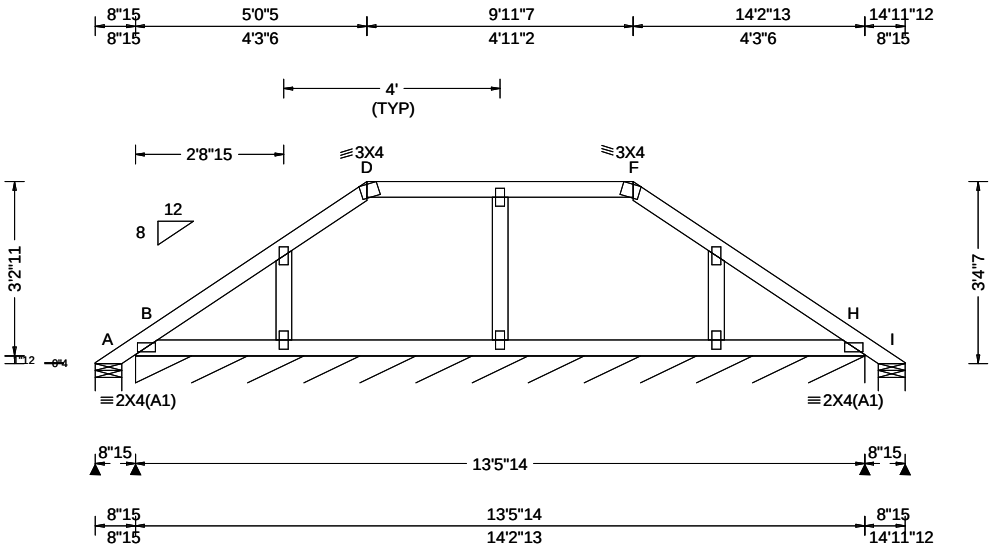
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635392 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB06	Cust: R 215 JRef:1Xa92150006 T22 / DrwNo: 309.21.1155.50018 / YK 11/05/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
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: > 2h C&C Dist a: 3.02 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): 0.003 F 999 240 VERT(CL): 0.006 F 999 180 HORZ(LL): 0.002 G - - HORZ(TL): 0.004 G - - Creep Factor: 2.0 Max TC CSI: 0.102 Max BC CSI: 0.060 Max Web CSI: 0.046 VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	7	/-	/-	/63	/55	/96
B*	72	/-	/-	/51	/8	/-
I	7	/-	/-	/12	/4	/-

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 161 Min Req = -
I Brg Wid = 5.9 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.

Wind

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

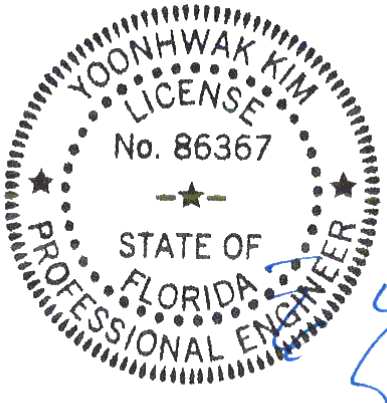
Wind loading based on both gable and hip roof types.

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 3-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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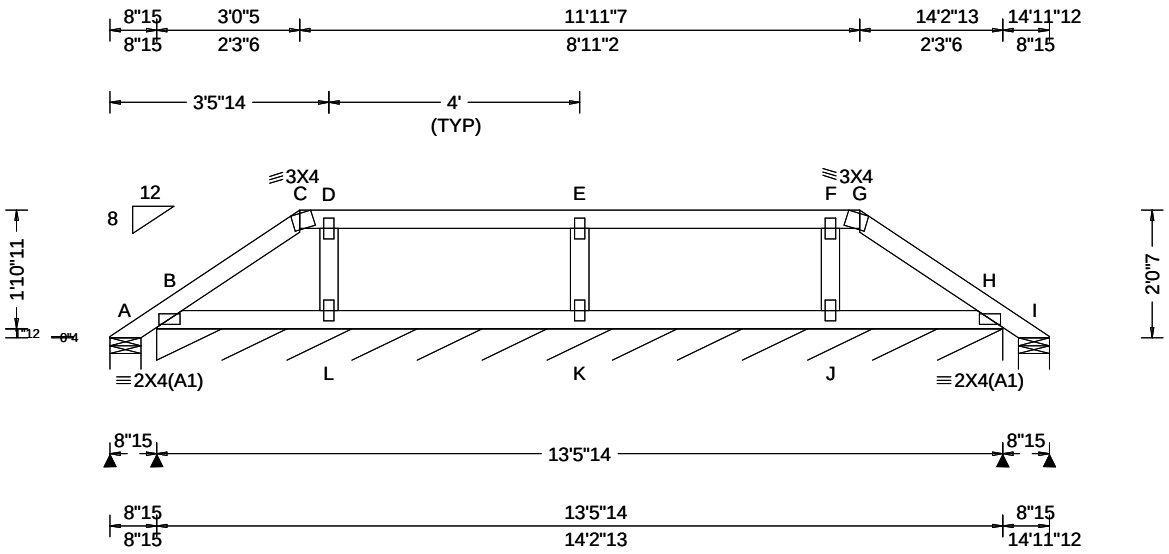
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 635478 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB07	Cust: R 215 JRef:1Xa92150006 T75 / DrwNo: 309.21.1155.49456 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 22.12 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	C	999	240
VERT(CL): 0.001	C	999	180
HORZ(LL): 0.001	H	-	-
HORZ(TL): 0.001	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.192
Max BC CSI: 0.050
Max Web CSI: 0.107

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	4	/-3	/-	/38	/40	/54
B*	73	/-	/-	/47	/24	/-
I	4	/-3	/-	/7	/9	/-
L		/-100				
K		/-135				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 161 Min Req = -
I Brg Wid = 5.9 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.

Wind

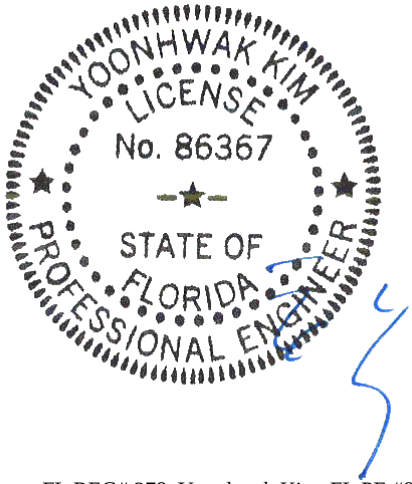
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 2-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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ALPINE
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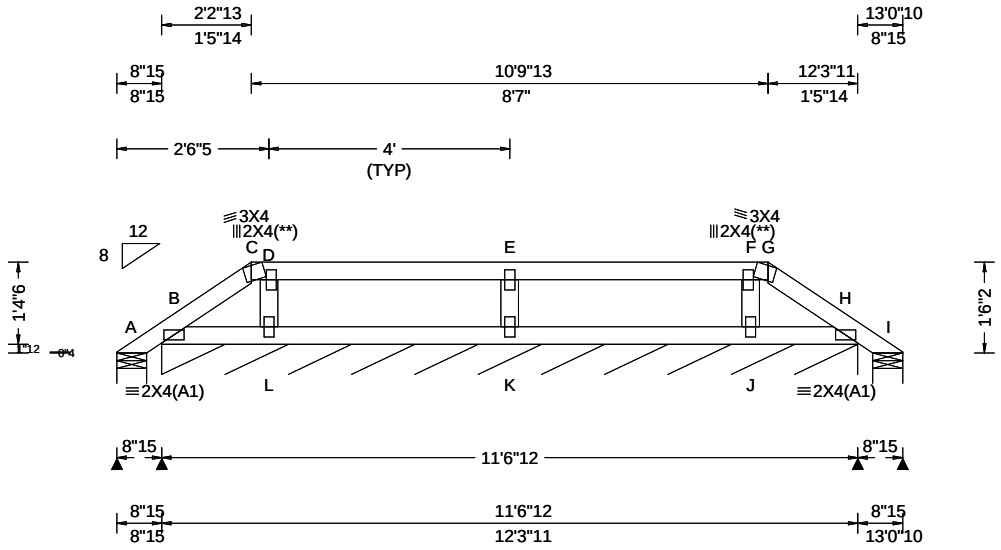
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637784 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB08	Cust: R 215 JRef:1Xa92150006 T53 / DrwNo: 309.21.1155.50816 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 21.86 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 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	C	999	240
VERT(CL): -0.001	G	999	180
HORZ(LL): 0.001	H	-	-
HORZ(TL): 0.001	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.206
Max BC CSI: 0.049
Max Web CSI: 0.114

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	22	/-	/-	/28	/22	/39
B*	70	/-	/-	/45	/25	/-
I	22	/-	/-	/9	/7	/-
K		/-135				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 138 Min Req = -
I Brg Wid = 5.9 Min Req = 1.5
Bearings A, B, & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
E - K	383	-281

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

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

Wind

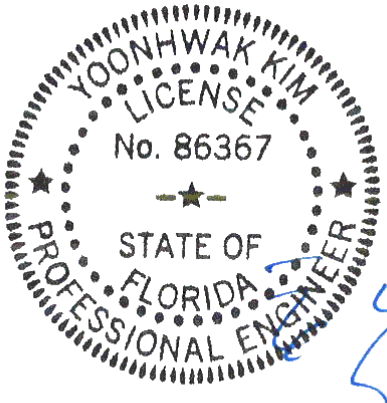
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 1-6-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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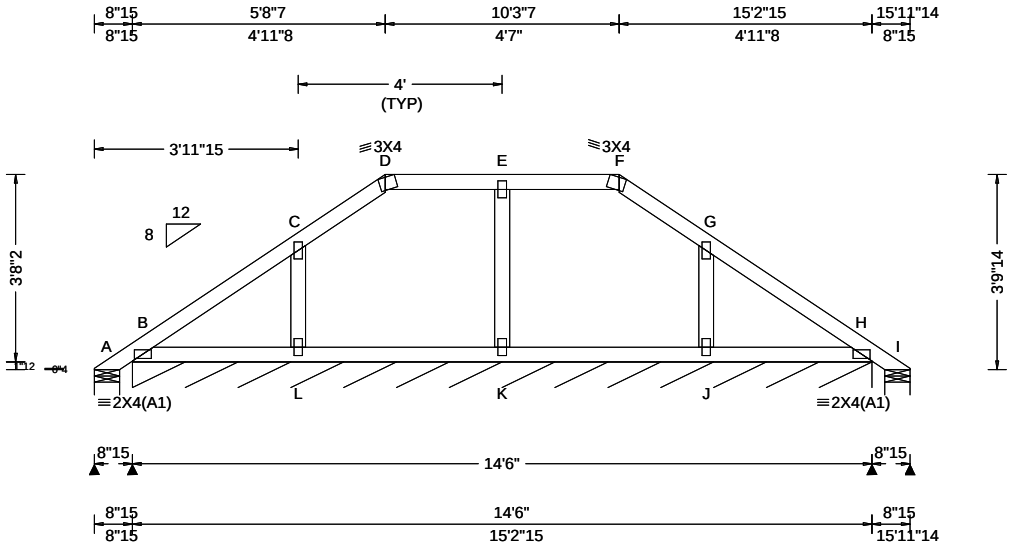
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637782 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB09	Cust: R 215 JRef:1Xa92150006 T30 / DrwNo: 309.21.1155.50330 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 22.04 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 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	F	999	240
VERT(CL): 0.017	F	999	180
HORZ(LL): 0.004	D	-	-
HORZ(TL): 0.010	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.156
Max BC CSI: 0.061
Max Web CSI: 0.064

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-11	/-	/72	/78	/106
B*	74	/-	/-	/51	/17	/-
I	-	/-11	/-	/17	/23	/-

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 173 Min Req = -
I Brg Wid = 5.9 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.

Wind

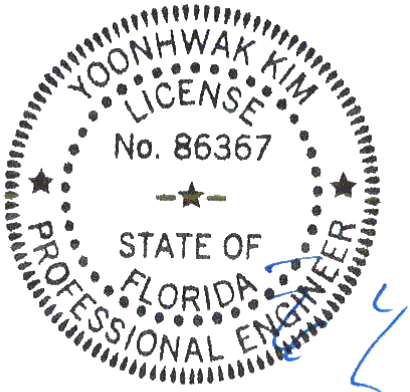
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 3-9-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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ALPINE
AN ITW COMPANY
6750 Forum Drive
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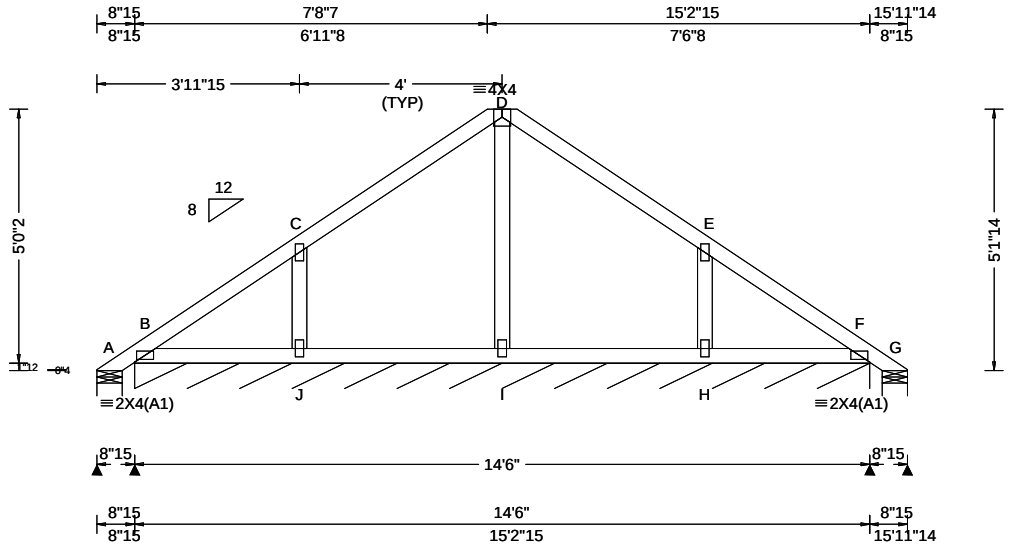
Orlando FL, 32821

SEQN: 637780 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB10	Cust: R 215 JRef:1Xa92150006 T34 / DrwNo: 309.21.1155.51174 / YK 11/05/2021



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria				
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#	
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL):	0.001	D	999	240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.001	D	999	180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.002	E	-	-
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL):	0.002	E	-	-
NCBCLL:	10.00	Mean Height: 22.70 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.209			
Load Duration:	1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI:	0.058			
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI:	0.081			
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)					
		Loc. from endwall: not in 9.00 ft	Plate Type(s):					
		GCpi: 0.18	WAVE					
		Wind Duration: 1.60		VIEW Ver: 21.01.01A.0521.20				

▲Maximum Reactions (lbs), or *=PLF

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1	/0	/-	/89	/93	/146
B*	72	/-	/-	/53	/13	/-
G	1	/0	/-	/8	/11	/-
J		/-108				
H		/-108				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 173 Min Req = -
G Brg Wid = 5.9 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.

Wind

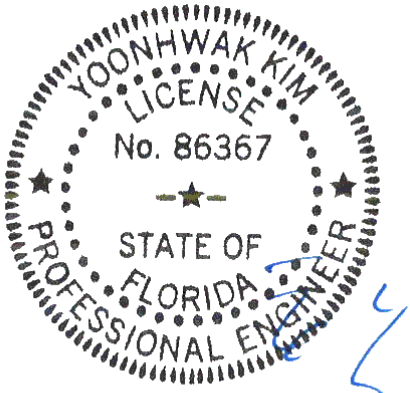
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 5-1-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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ALPINE
AN ITW COMPANY
6750 Forum Drive
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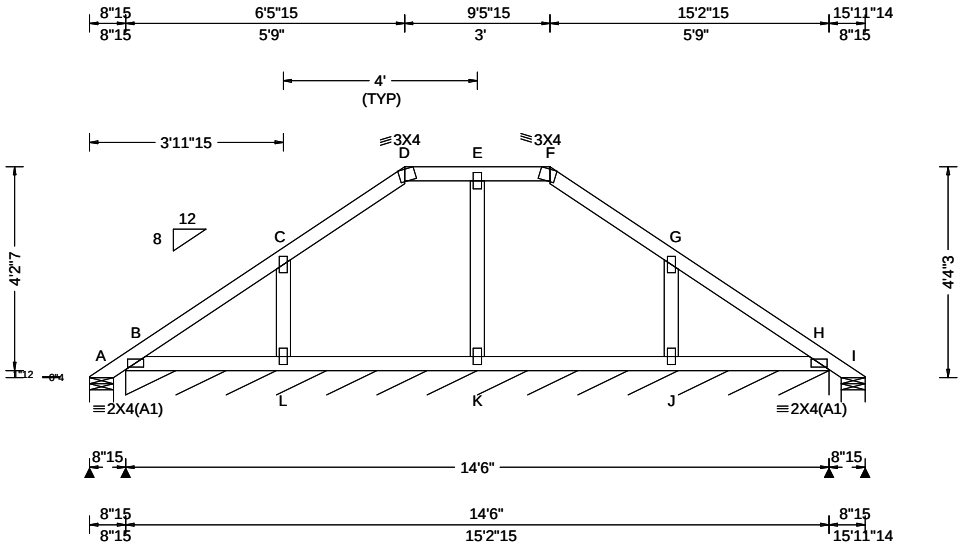
Orlando FL, 32821

SEQN: 637778 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB11	Cust: R 215 JRef:1Xa92150006 T29 / DrwNo: 309.21.1155.50220 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 22.30 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 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.008	F	999	240
VERT(CL): 0.019	F	999	180
HORZ(LL): 0.005	D	-	-
HORZ(TL): 0.011	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.171
Max BC CSI: 0.062
Max Web CSI: 0.046

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-7	/-	/78	/82	/121
B*	73	/-	/-	/52	/15	/-
I	-	/-7	/-	/14	/18	/-

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 173 Min Req = -
I Brg Wid = 5.9 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.

Wind

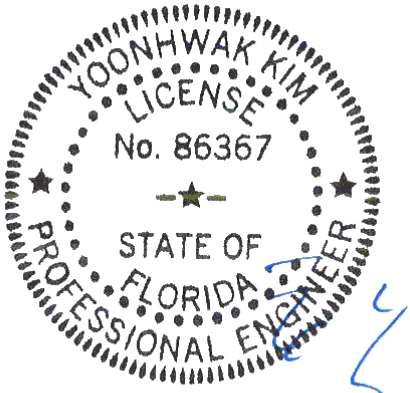
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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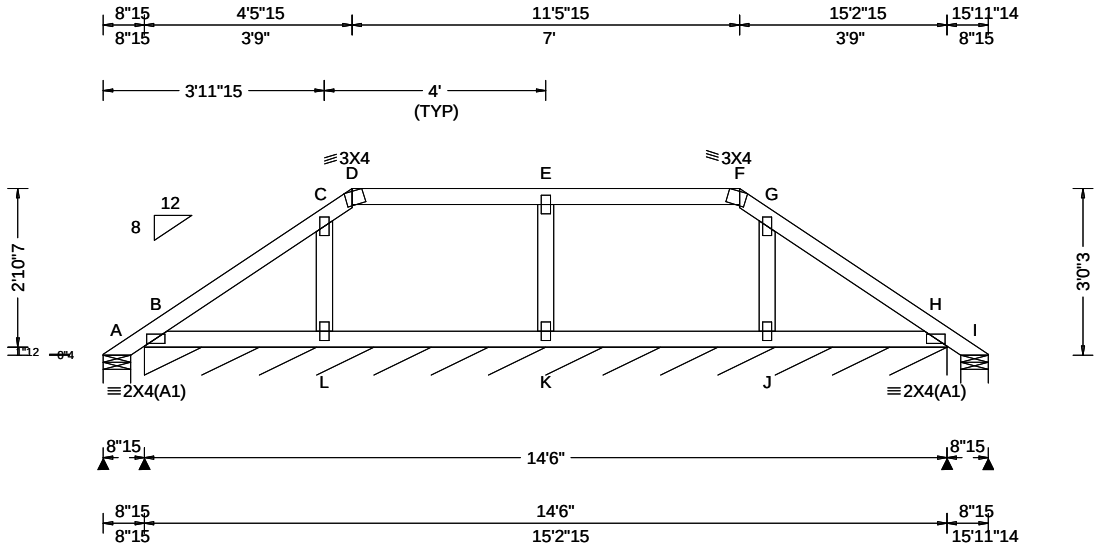
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637776 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB12	Cust: R 215 JRef:1Xa92150006 T28 / DrwNo: 309.21.1155.48893 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 21.63 ft
TCDL: 5.0 psf
BCDL: 2.0 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	F	999	240
VERT(CL): 0.006	F	999	180
HORZ(LL): 0.001	D	-	-
HORZ(TL): 0.004	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.167
Max BC CSI: 0.055
Max Web CSI: 0.096

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-12	/-	/63	/71	/82
B*	74	/-	/-	/50	/25	/-
I	-	/-12	/-	/19	/27	/-
K		/-122				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 173 Min Req = -
I Brg Wid = 5.9 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.

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 3-0-3.

FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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ALPINE
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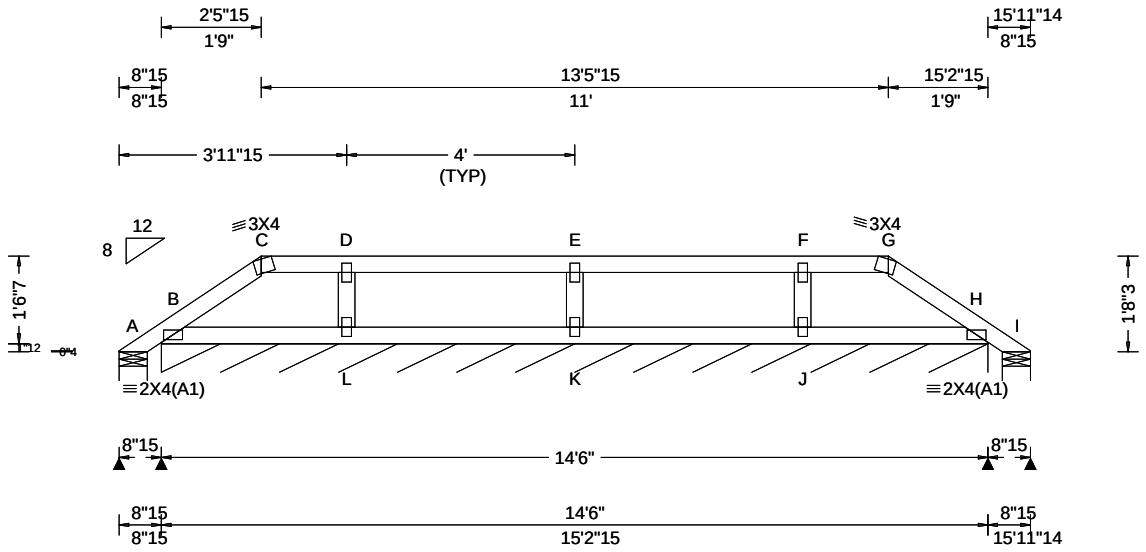
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 637774 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 21-6130 RICHARD & ANN WRIGHT **Truss Label:** PB13	Cust: R 215 JRef:1Xa92150006 T52 / DrwNo: 309.21.1155.49815 / YK 11/05/2021



Loading Criteria (psf)

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 Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.97 ft
TCDL: 5.0 psf
BCDL: 2.0 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.001 G	999	240
VERT(CL):	0.003 G	999	180
HORZ(LL):	0.001 G	-	-
HORZ(TL):	0.002 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.182
Max BC CSI: 0.050
Max Web CSI: 0.101

VIEW Ver: 21.01.01A.0521.20

▲Maximum Reactions (lbs), or *=PLF

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	6	/0	/-	/33	/36	/44
B*	72	/-	/-	/46	/25	/-
I	6	/0	/-	/7	/10	/-
K		/-125				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5
B Brg Wid = 173 Min Req = -
I Brg Wid = 5.9 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.

Wind

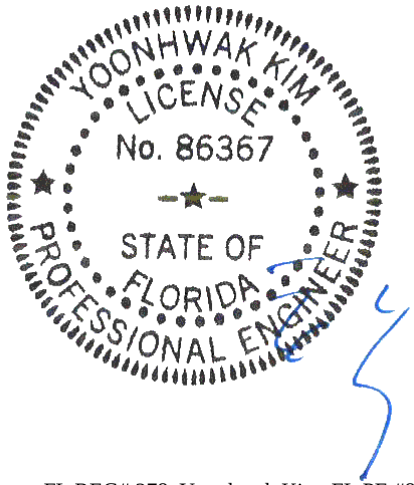
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
11/05/2021

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

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

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 Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
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"
	SP DFL	#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"
		#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"
16" o.c.	SPF HF	#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"
		Standard	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	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"
12" o.c.	SPF HF	#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"
	SP DFL	#1	5' 8"	9' 3"	9' 8"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		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"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 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.

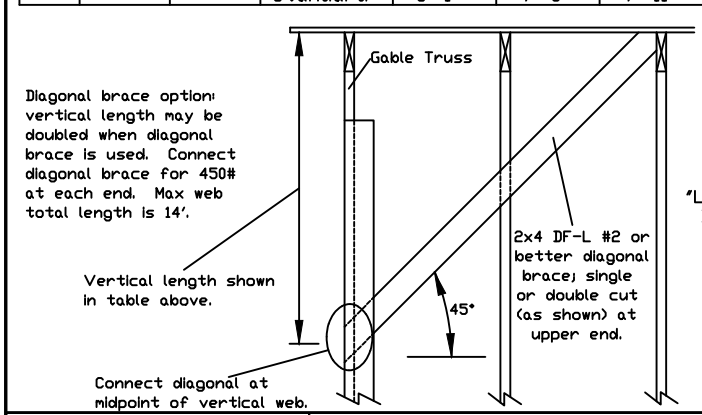
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.
** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

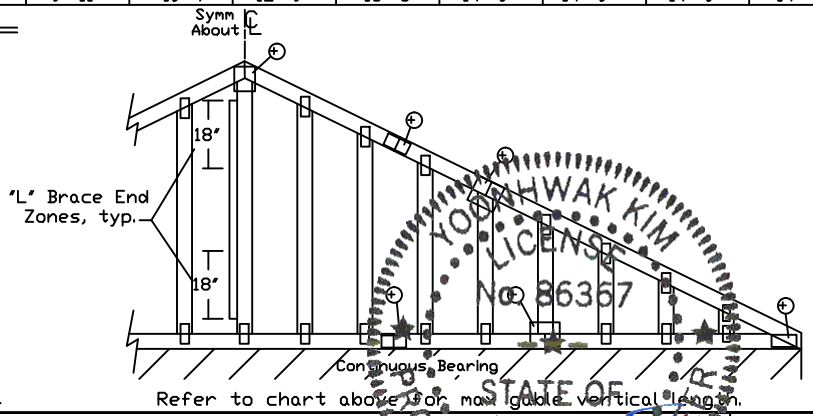
"L" bracing must be a minimum of 80% of web member length.

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.





ALPINE AN ITW COMPANY
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Suite 242
Earth City, MO 63045

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

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB14015
DATE	01/26/2018
DRWG	A14015ENC160118

Gable Stud Reinforcement Detail

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

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

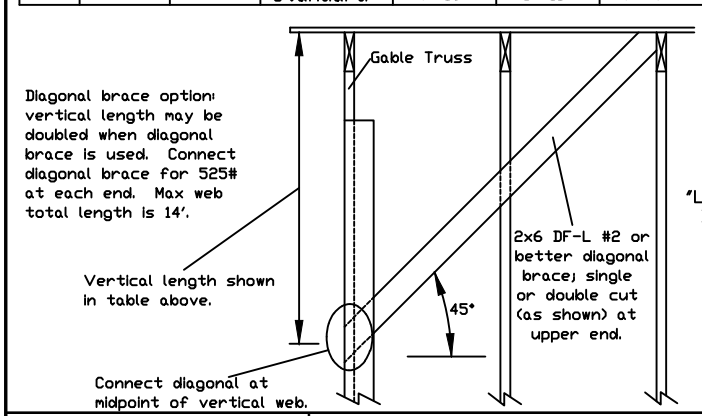
'L' bracing must be a minimum of 80% of web member length.

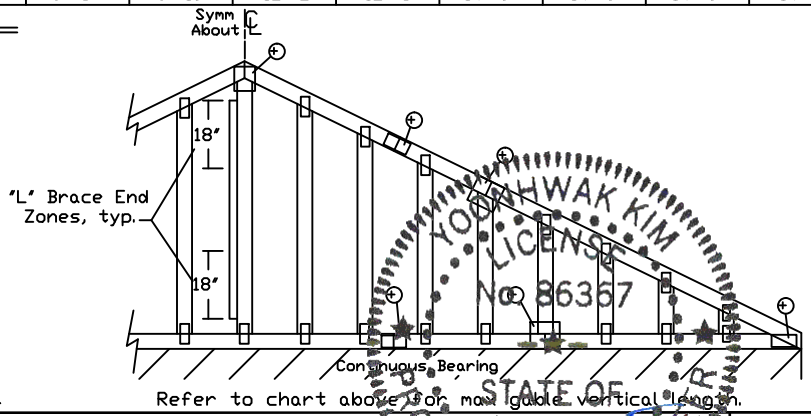
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	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.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
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

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-reinforecement 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.

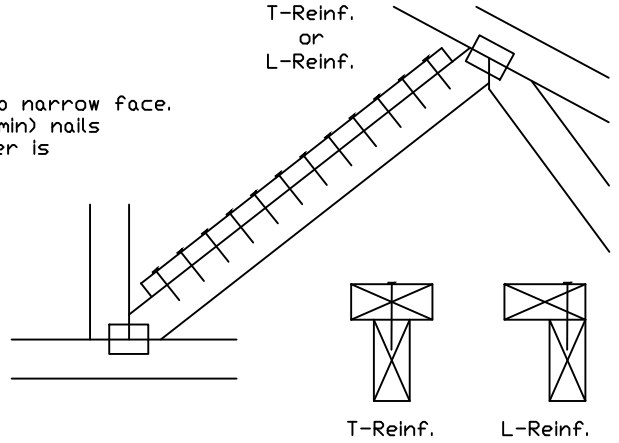
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

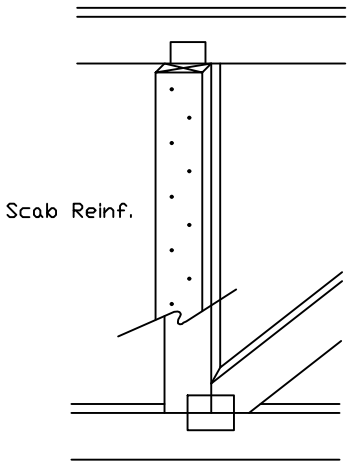
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

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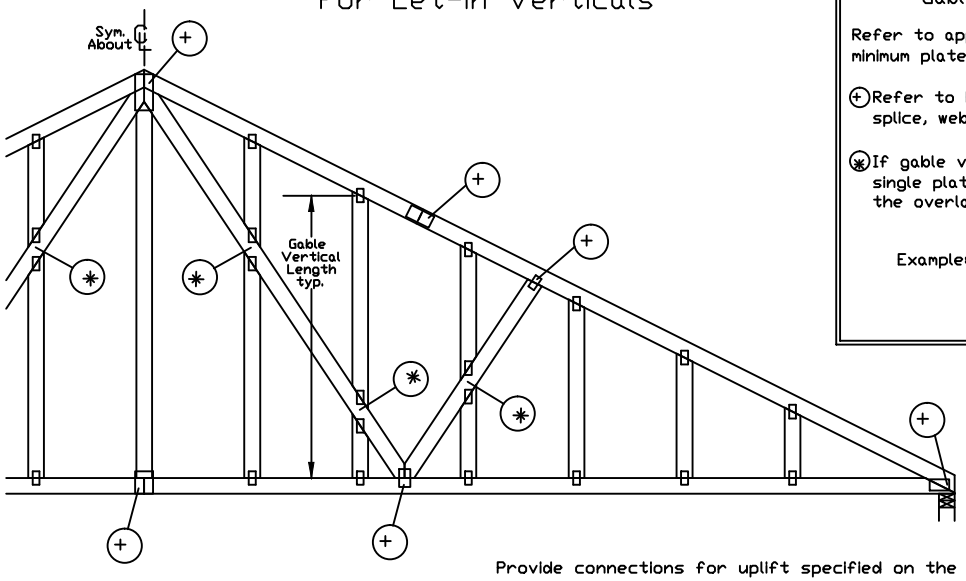
TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

1/05/2021
FL REG# 278, Yoonhwak Kim, FL PE #86367

Gable Detail
For Let-in Verticals



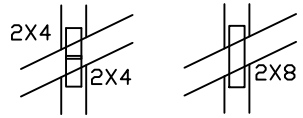
Gable Truss Plate Sizes

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

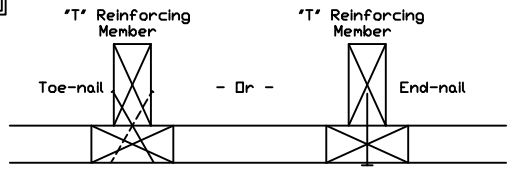
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

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

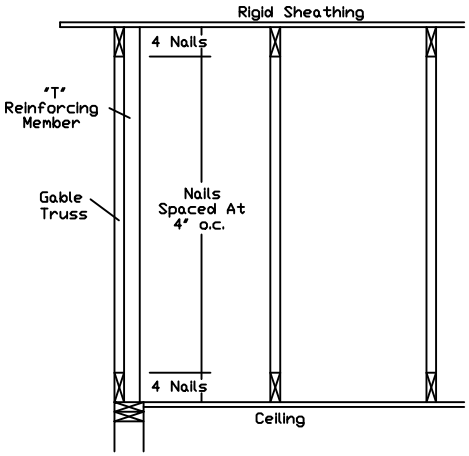
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

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, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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



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

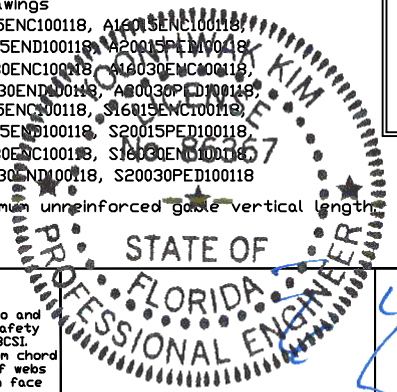
Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

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

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"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"



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

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

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

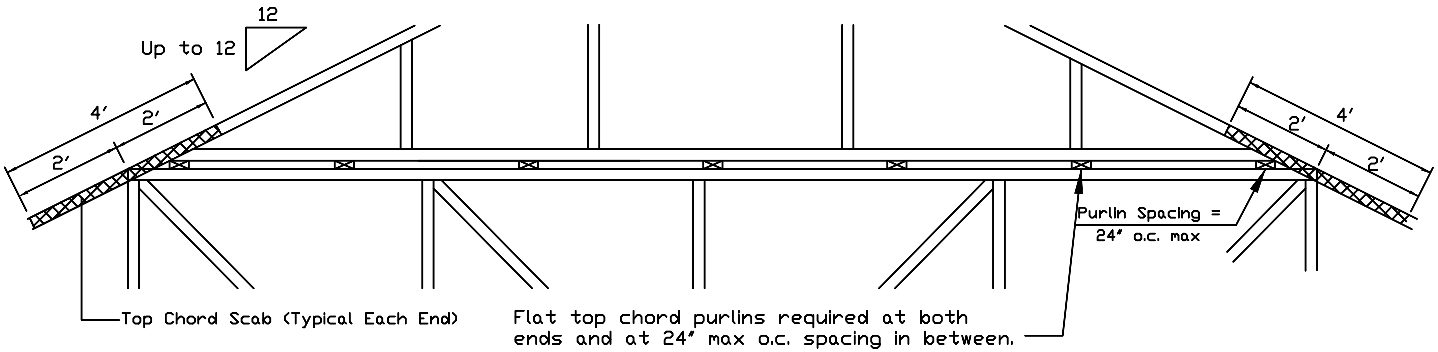
160 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp C, wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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.

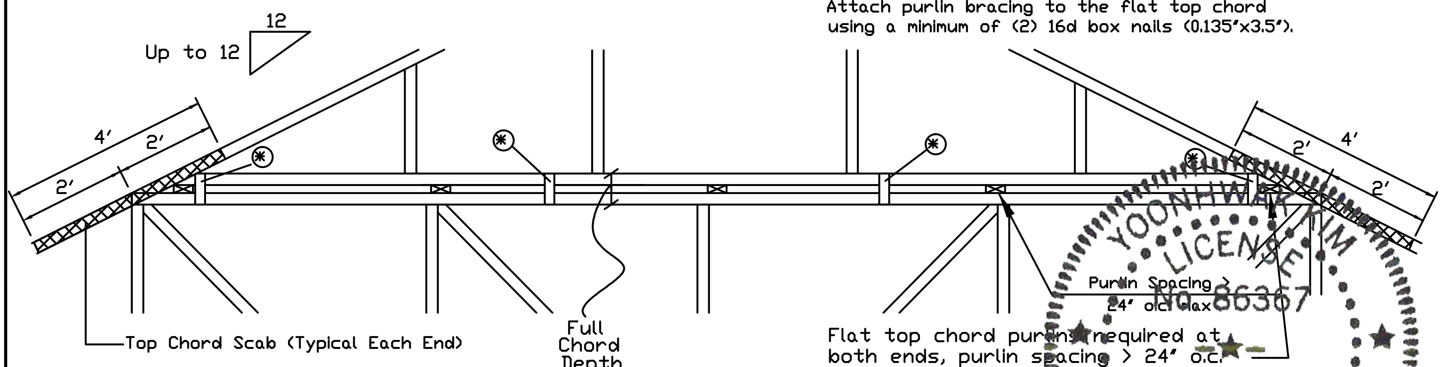
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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



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

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

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

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) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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YOONHWAK KIM
LICENSE
No. 86367
STATE OF
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PROFESSIONAL ENGINEER

11/05/2021
FL Cert 6278, Yoonhwak Kim, FL PE #86367

REF	PIGGYBACK
DATE	01/02/2018
DRWG	PB160160118
SPACING	24.0"