

ALPINE
AN ITW COMPANY

11/13/2023

FL REQ# 278, David J. Rothweiler, FL PE# 88430

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This item has been electronically signed and sealed by David J. Rothweiler on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

Site Information:	**Page 1:**
Customer: Kora Compoments, LLC	*Job Number:* KTQ23455-BLDG-VILLA-R-REV-2
Job Description: Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De	
Address: Villa MASTER PARCEL ID: XXX GLADES COUNTY, FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	*IntelliVIEW Version:* 22.02.00 *JRef #:* 1XUR94190002
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 145 *Building Type:* Closed	*Design Loading (psf):* 45.00

This package contains general notes pages, 36 truss drawing(s) and 1 detail(s).

Item	Drawing Number	Truss
1	317.23.0705.15683	A01
3	317.23.0705.19833	A03
5	317.23.0705.25263	A04-A
7	317.23.0705.30987	A05-A
9	317.23.0705.37617	A06-A
11	317.23.0705.42837	A08
13	317.23.0705.46973	A11
15	317.23.0705.50870	A13
17	317.23.0705.53620	CJ02
19	317.23.0705.57410	G02
21	317.23.0706.00207	G05
23	317.23.0706.04993	G07
25	317.23.0706.09443	G09
27	317.23.0706.14917	G11
29	317.23.0706.17780	J02
31	317.23.0706.20617	J04
33	317.23.0706.23070	J10
35	317.23.0706.25777	J12
37	BRCLBSUB0119	

Item	Drawing Number	Truss
2	317.23.0705.17740	A02
4	317.23.0705.22777	A04
6	317.23.0705.27720	A05
8	317.23.0705.34623	A06
10	317.23.0705.40280	A07
12	317.23.0705.44893	A10
14	317.23.0705.48990	A12
16	317.23.0705.52213	CJ01
18	317.23.0705.55450	G01
20	317.23.0705.58743	G03
22	317.23.0706.01543	G06
24	317.23.0706.06643	G08
26	317.23.0706.11443	G10
28	317.23.0706.16487	J01
30	317.23.0706.19117	J03
32	317.23.0706.21810	J09
34	317.23.0706.24403	J11
36	317.23.0706.29400	J13

General Notes

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

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

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

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

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

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

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

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

General Notes (continued)

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

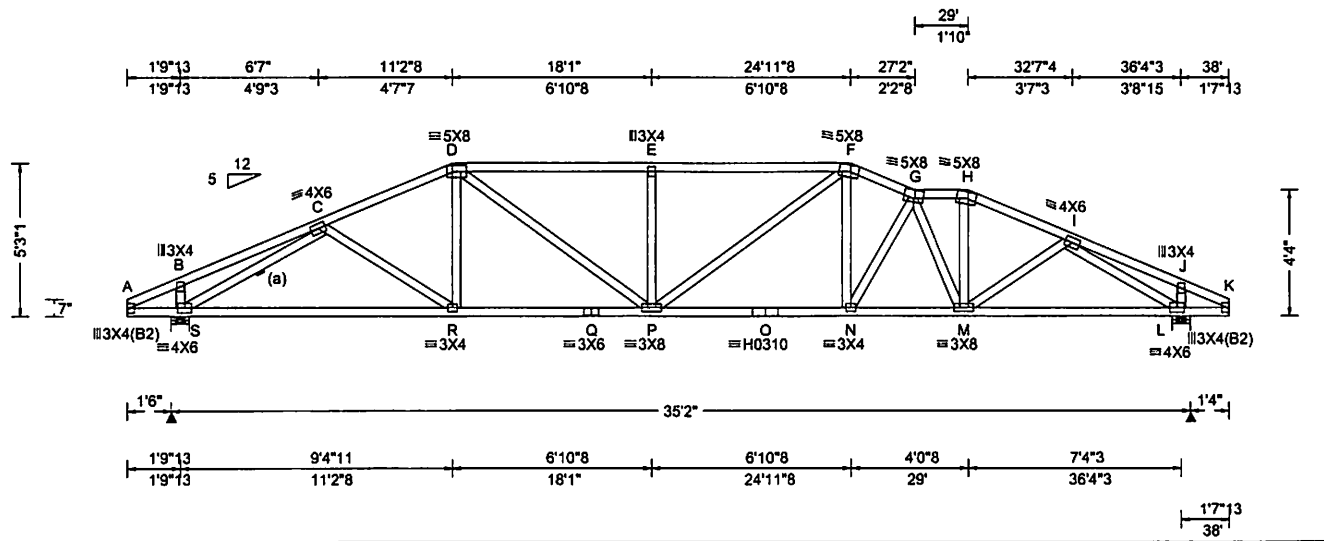
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze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

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

References:

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

SEQN: 120282 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** A01	Cust: R 9419 JRef: 1XUR94190002 T17 DrwNo: 317.23.0705.15683 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.142 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.329 E 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.053 L - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.123 L - -
NCBCLL: 10.00	Mean Height: 23.59 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.727
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.795
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.879
	C&C Dist a: 3.80 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

▲ Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
S	1768	/-	/-	/1145	/788	/159
L	1751	/-	/-	/1129	/781	/-

Wind reactions based on MWFRS
S Brg Wid = 7.6 Min Req = 2.8 (Truss)
L Brg Wid = 7.6 Min Req = 2.7 (Truss)
Bearings S & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

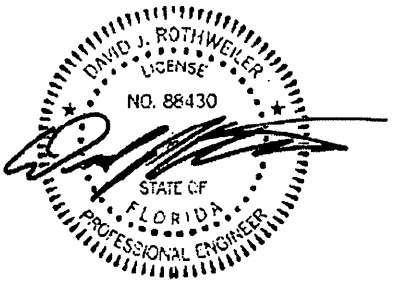
Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	1185	-2433	F - G	1325	-2632
D - E	1434	-2776	G - H	1148	-2259
E - F	1434	-2776	H - I	1191	-2473

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2056	-914	O - N	2435	-979
R - Q	2191	-858	N - M	2576	-1066
Q - P	2191	-858	M - L	1969	-877
P - O	2435	-979			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - C	1139	-2344	F - N	416	-111
D - P	728	-352	G - M	395	-825
P - F	426	-202	M - H	684	-285
E - P	391	-536	I - L	1120	-2341



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

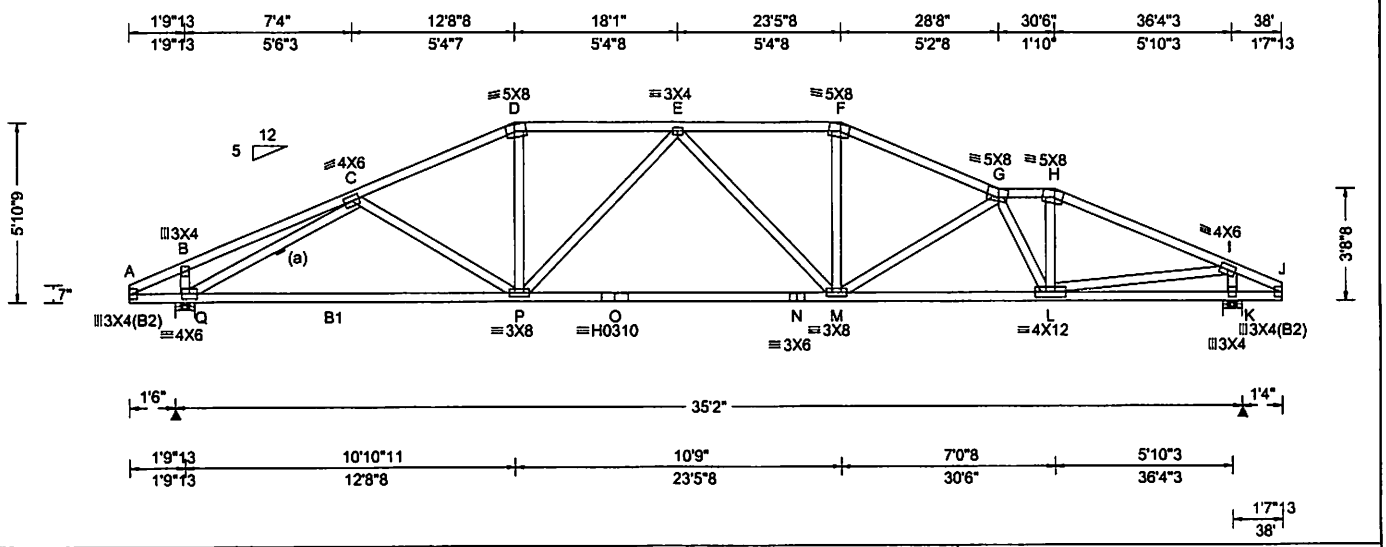
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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

SEQN: 75755 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** A02	Cust: R 9419 JRef:1XUR94190002 T35 DrwNo: 317.23.0705.17740 / FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.90 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.80 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.131 E	999	360
VERT(CL):	0.303 E	999	240
HORZ(LL):	0.048 K	-	-
HORZ(TL):	0.111 K	-	-

Creep Factor: 2.0
Max TC CSI: 0.417
Max BC CSI: 0.899
Max Web CSI: 0.520

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1775	/-	/-	/1147	/645	/180
K	1744	/-	/-	/1125	/634	/-

Wind reactions based on MWFRS
Q Brg Wid = 7.6 Min Req = 2.8 (Truss)
K Brg Wid = 7.6 Min Req = 2.7 (Truss)
Bearings 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.
C - D	961	-2401	F - G	1042	-2580
D - E	940	-2158	G - H	961	-2319
E - F	1019	-2335	H - I	976	-2569

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	2144	-783	N - M	2429	-802
P - O	2429	-802	M - L	2764	-973
O - N	2429	-802			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	961	-2349	G - L	414	-1008
D - P	537	-129	L - H	675	-197
P - E	251	-402	L - I	2003	-644
M - F	579	-150	I - K	694	-1629
M - G	294	-526			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B1 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

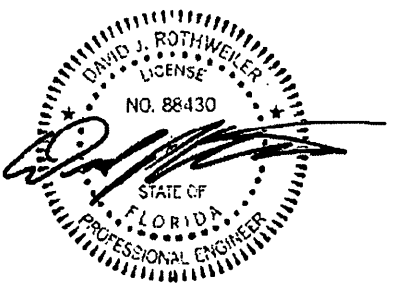
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



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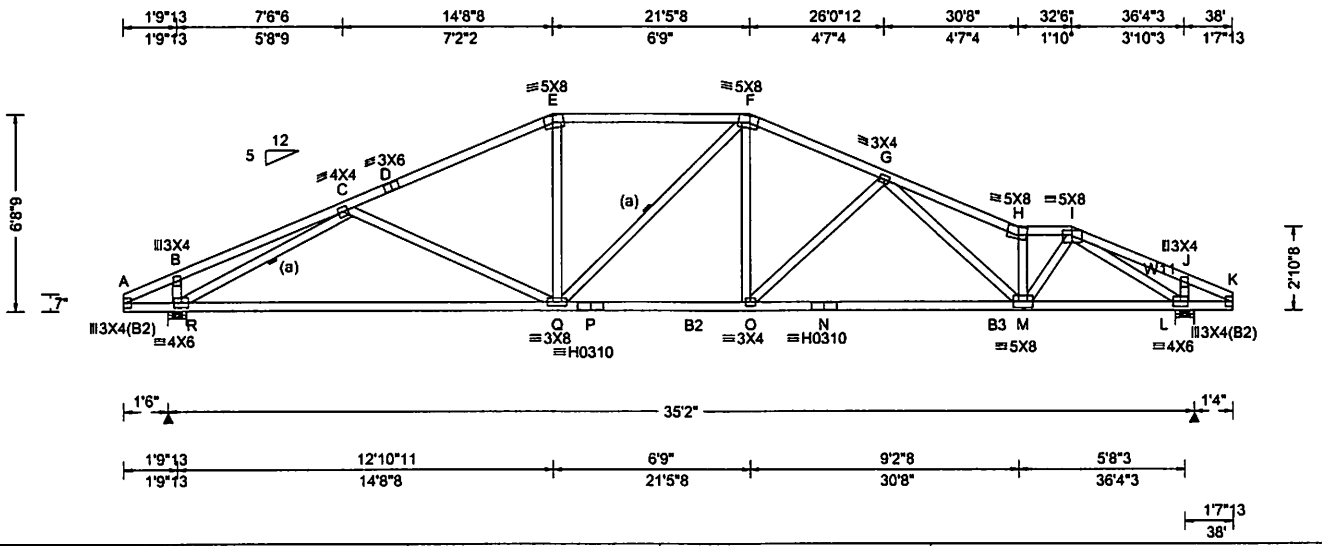
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120273 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** A03	Cust: R 9419 JRef: 1XUR94190002 T8 DrwNo: 317.23.0705.19833 / FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 24.31 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.80 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.119	O	999	360
VERT(CL): 0.277	O	999	240
HORZ(LL): 0.046	L	-	-
HORZ(TL): 0.106	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.591
Max BC CSI: 0.808
Max Web CSI: 0.627

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1768	/-	/-	/1139	/639	/208
L	1751	/-	/-	/1125	/634	/-

Wind reactions based on MWFRS
R Brg Wid = 7.6 Min Req = 1.5 (Truss)
L Brg Wid = 7.6 Min Req = 2.7 (Truss)
Bearings R & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-495	E - F	924	-2032
B - C	22	-492	F - G	988	-2334
C - D	903	-2294	G - H	1262	-3170
D - E	926	-2247	H - I	1075	-2796

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - R	428	0	O - N	2500	-861
R - Q	2155	-805	N - M	2500	-861
Q - P	2096	-621	M - L	1999	-679
P - O	2096	-621			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - C	1049	-2255	G - M	520	-172
E - Q	432	-26	H - M	628	-1423
F - O	542	-164	M - I	1459	-494
O - G	333	-558	I - L	804	-2408

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SP 2400f-2.0E; B2 2x4 SPF #1/#2;
B3 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W11 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

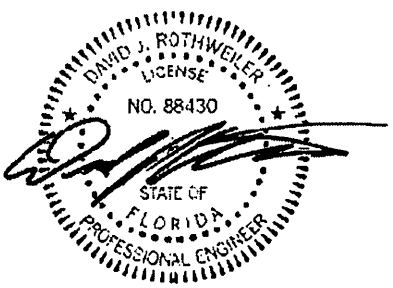
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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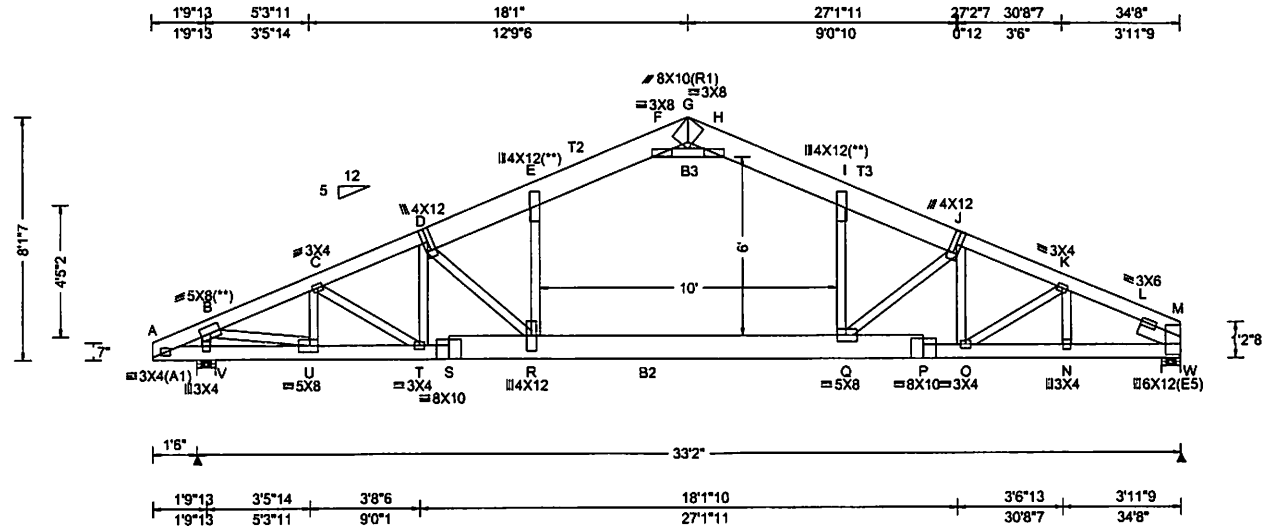
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75757 COMN	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-R-REV-2	Cust: R 9419 JRef: 1XUR94190002 T42
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De	DrwNo: 317.23.0705.22777
		Truss Label: A04	/ FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 25.02 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.47 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.212	Q	999	360
VERT(CL): 0.443	Q	888	240
HORZ(LL): 0.070	E	-	-
HORZ(TL): 0.150	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.717
Max BC CSI: 0.314
Max Web CSI: 0.589

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
V	2397	/-	/-	/1065	/576	/250
W	2208	/-	/-	/901	/533	/-

Wind reactions based on MWFRS
V Brg Wid = 7.6 Min Req = 2.0 (Truss)
W Brg Wid = 7.6 Min Req = 1.8 (Truss)
Bearings V & W 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	107	-383	G - H	621	-55
B - C	796	-3326	H - I	841	-3248
C - D	936	-3878	I - J	871	-3864
D - E	873	-3861	J - K	966	-3988
E - F	843	-3254	K - L	868	-3622
F - G	615	-53	L - M	876	-3714

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	507	-278	Q - P	3746	-774
U - T	3063	-695	P - O	3744	-774
T - S	3615	-737	O - N	3151	-723
S - R	3617	-737	N - M	3156	-723
R - Q	3316	-548			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	563	-2114	E - R	1360	-128
B - U	2608	-551	F - H	971	-3986
U - C	211	-705	Q - I	1364	-126
C - T	651	-47	Q - J	347	-713
T - D	117	-656	J - O	133	-589
D - R	338	-572	O - K	681	-60

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Rt Slider: 2x6 SPF #1/#2; block length = 1.500'

Plating Notes

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

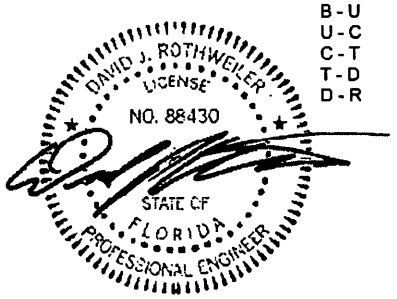
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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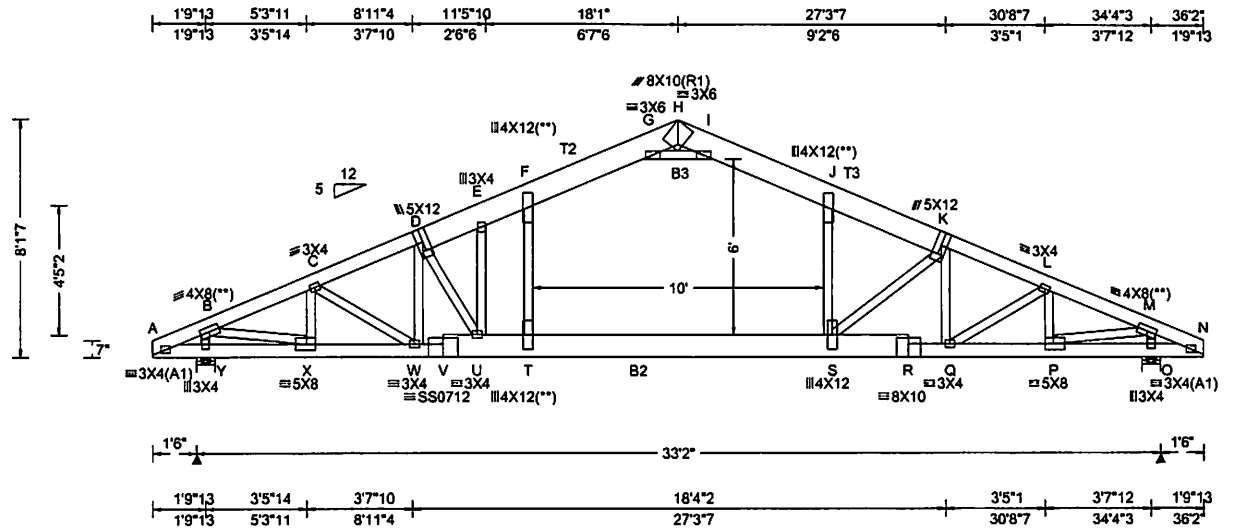
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75758 COMN FROM:	Ply: 1 Qty: 3	Job Number: KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De Truss Label: A04-A		Cust: R 9419 JRef: 1XUR94190002 T28 DrwNo: 317.23.0705.25263 / FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 25.02 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.62 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.168	T	999	360
VERT(CL): 0.364	T	999	240
HORZ(LL): 0.064	E	-	-
HORZ(TL): 0.144	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.321
Max BC CSI: 0.283
Max Web CSI: 0.570

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
Y	2372 /-	/-	/1065	/582	/248
O	2372 /-	/-	/1065	/582	/-

Wind reactions based on MWFRS
Y Brg Wid = 7.6 Min Req = 2.0 (Truss)
O Brg Wid = 7.6 Min Req = 2.0 (Truss)
Bearings Y & O 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	109	-420	H - I	380	-4
B - C	804	-3287	I - J	855	-3231
C - D	938	-3835	J - K	878	-3805
D - E	886	-3756	K - L	941	-3810
E - F	860	-3766	L - M	793	-3248
F - G	853	-3215	M - N	98	-404
G - H	423	-36			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - Y	413	-94	T - S	3285	-523
Y - X	547	-276	S - R	3560	-713
X - W	3022	-667	R - Q	3558	-713
W - V	3528	-687	Q - P	2985	-658
V - U	3529	-687	P - O	533	-118
U - T	3244	-521	O - N	398	-81

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Y - B	570	-2099	S - J	1255	-106
B - X	2525	-545	S - K	346	-526
X - C	211	-706	K - Q	120	-651
C - W	680	-37	Q - L	663	-61
W - D	171	-403	L - P	211	-690
D - U	434	-816	P - M	2508	-540
F - T	1417	-70	M - O	570	-2110
G - I	930	-3678			

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2, T3 2x10 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

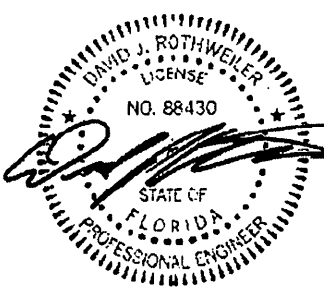
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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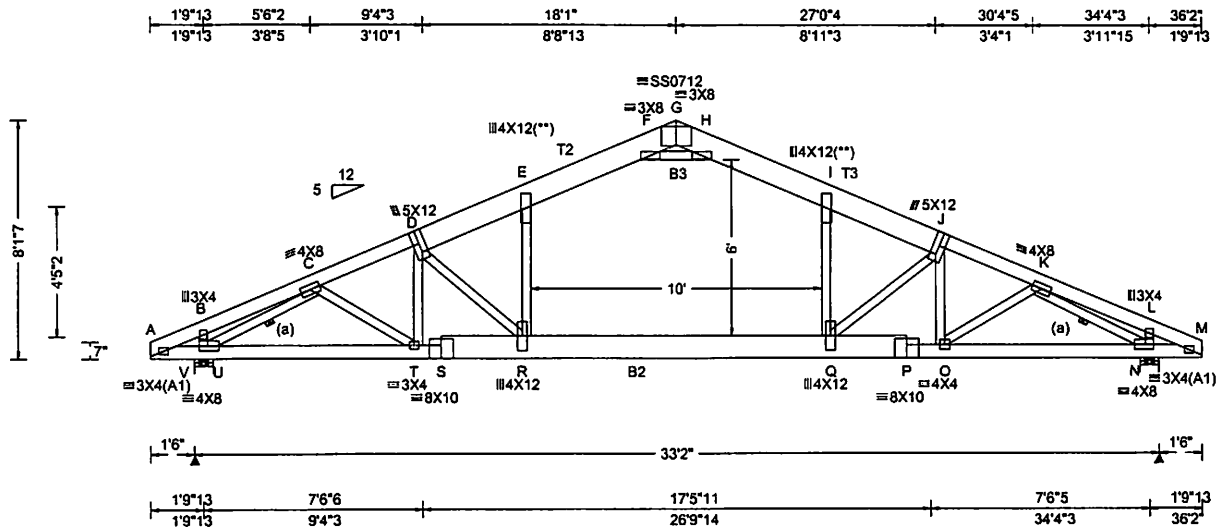
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120291 COMN	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-R-REV-2	Cust: R 9419 JRef: 1XUR94190002 T4
FROM:	Qty: 5	Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De	DrwNo: 317.23.0705.27720
		Truss Label: A05	/ FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.183 Q 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.388 Q 996 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.068 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.149 E - -
NCBCLL: 10.00	Mean Height: 25.02 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.434
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.790
Spacing: 27.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: No	Max Web CSI: 0.506
	C&C Dist a: 3.62 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 10.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	2669	/-	/-	/1200	/655	/279
N	2669	/-	/-	/1200	/655	/-

Wind reactions based on MWFRS
V Brg Wid = 7.6 Min Req = 4.2 (Truss)
N Brg Wid = 7.6 Min Req = 4.2 (Truss)
Bearings V & N 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	96	-467	G - H	397	-14
B - C	124	-490	H - I	936	-3538
C - D	1019	-4201	I - J	961	-4184
D - E	966	-4196	J - K	1020	-4184
E - F	936	-3536	K - L	127	-493
F - G	397	-11	L - M	98	-470

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - U	473	-80	Q - P	3892	-764
U - T	3234	-737	P - O	3889	-765
T - S	3899	-760	O - N	3229	-735
S - R	3902	-760	N - M	476	-82
R - Q	3600	-562			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - U	224	-446	Q - I	1410	-119
U - C	880	-3525	Q - J	359	-550
C - T	801	-24	J - O	126	-747
T - D	120	-752	O - K	800	-32
D - R	356	-582	K - N	875	-3516
E - R	1466	-132	N - L	225	-449
F - H	992	-3985			

Lumber

Top chord: 2x6 SPF #1/#2; T2, T3 2x10 SP 2400f-2.0E;
Bot chord: 2x6 SPF #1/#2; B2 2x10 SP 2400f-2.0E; B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

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

Plating Notes

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

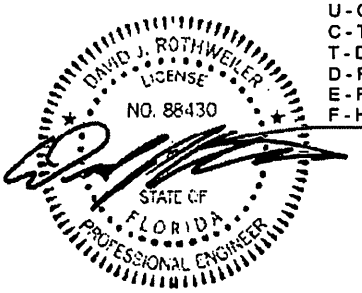
Collar-tie braced with continuous lateral bracing at 24" oc.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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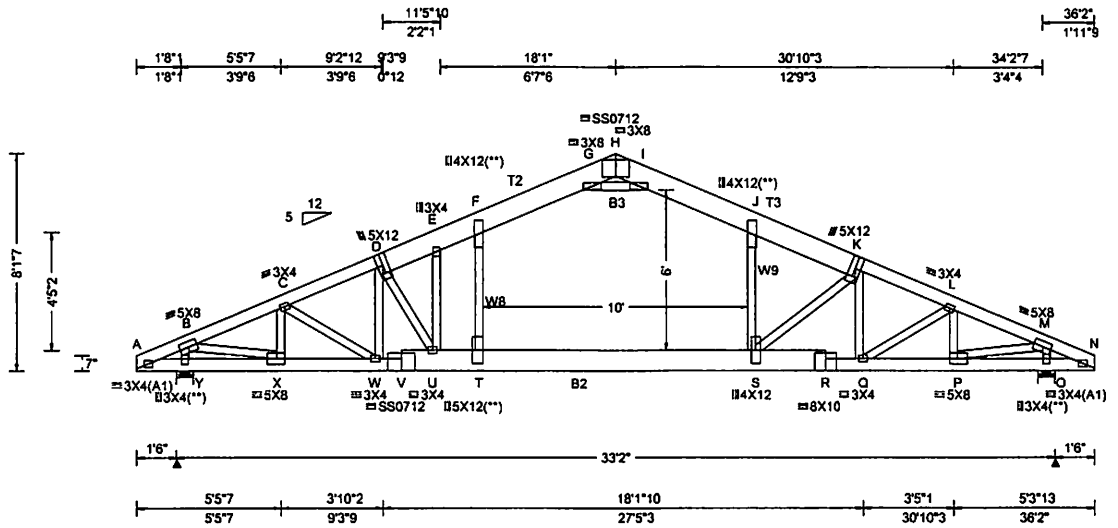
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75793 ATIC FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** A05-A	Cust: R 9419 JRef: 1XUR94190002 T23 DrwNo: 317.23.0705.30987 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.196 T 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.422 T 924 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.071 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.161 E - -
NCBCLL: 10.00	Mean Height: 25.02 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.457
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.348
Spacing: 27.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: No	Max Web CSI: 0.654
	C&C Dist a: 3.62 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 10.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	2669	/-	/-	/1198	/393	/279
O	2669	/-	/-	/1198	/393	/-

Wind reactions based on MWFRS
Y Brg Wid = 7.6 Min Req = 2.2 (Truss)
O Brg Wid = 7.6 Min Req = 2.2 (Truss)
Bearings Y & O 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	122	-427	H - I	422	0
B - C	565	-3690	I - J	627	-3636
C - D	666	-4318	J - K	625	-4282
D - E	630	-4223	K - L	667	-4286
E - F	612	-4250	L - M	558	-3646
F - G	625	-3617	M - N	108	-410
G - H	471	-41			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - Y	412	-105	T - S	3697	-335
Y - X	563	-309	S - R	4002	-478
X - W	3403	-494	R - Q	3999	-478
W - V	3970	-465	Q - P	3362	-451
V - U	3972	-464	P - O	547	-87
U - T	3650	-335	O - N	396	-92

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Y - B	400	-2346	G - I	668	-4132
B - X	2897	-371	S - J	1411	-46
X - C	162	-819	S - K	388	-586
C - W	763	-38	K - Q	136	-731
W - D	194	-438	Q - L	739	-45
D - U	493	-925	L - P	162	-802
E - U	286	-395	P - M	2878	-369
F - T	1629	-19	M - O	400	-2357

Lumber

Top chord: 2x6 SPF #1/#2; T2, T3 2x10 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x10 SP 2400f-2.0E; B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W8,W9 2x4 SP 2400f-2.0E;

Plating Notes

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

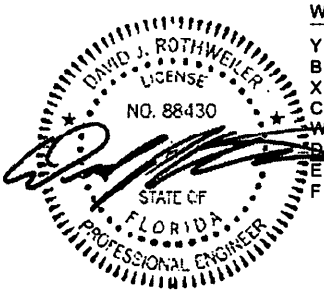
Collar-tie braced with continuous lateral bracing at 24" oc.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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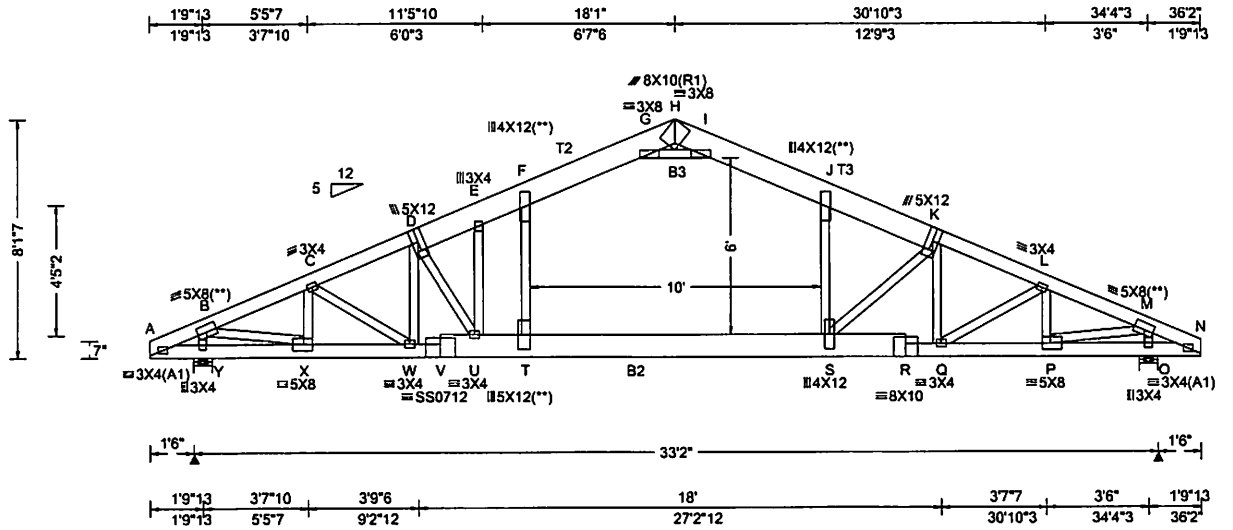
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 75761 COMN	Ply: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2	Cust: R 9419 JRef:1XUR94190002 T22
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De	DrwNo: 317.23.0705.34623
		Truss Label: A06	/ FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 25.02 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.62 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.201	T	999	360
VERT(CL): 0.430	T	908	240
HORZ(LL): 0.075	E	-	-
HORZ(TL): 0.167	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.722
Max BC CSI: 0.291
Max Web CSI: 0.581

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
Y	2372	/-	/-	/1065	/582 /248
O	2372	/-	/-	/1065	/582 /-

Wind reactions based on MWFRS
Y Brg Wid = 7.6 Min Req = 2.0 (Truss)
O Brg Wid = 7.6 Min Req = 2.0 (Truss)
Bearings Y & O 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	108	-380	G - H	649	-71
B - C	801	-3278	H - I	621	-69
C - D	941	-3838	I - J	853	-3223
D - E	879	-3732	J - K	881	-3806
E - F	863	-3770	K - L	941	-3825
F - G	851	-3209	L - M	793	-3244

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	501	-275	T - S	3278	-521
X - W	3023	-667	S - R	3565	-709
W - V	3526	-690	R - Q	3563	-709
V - U	3527	-689	Q - P	2992	-661
U - T	3237	-519	P - O	485	-107

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Y - B	567	-2084	S - J	1293	-118
B - X	2572	-554	S - K	352	-558
X - C	217	-733	K - Q	136	-644
C - W	681	-42	Q - L	660	-53
D - U	429	-810	L - P	218	-715
F - T	1443	-82	P - M	2563	-554
G - I	999	-3959	M - O	566	-2096

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

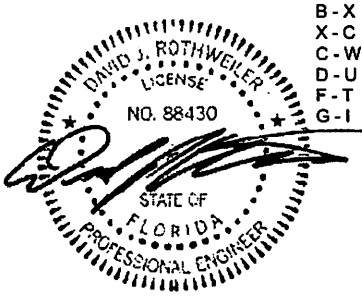
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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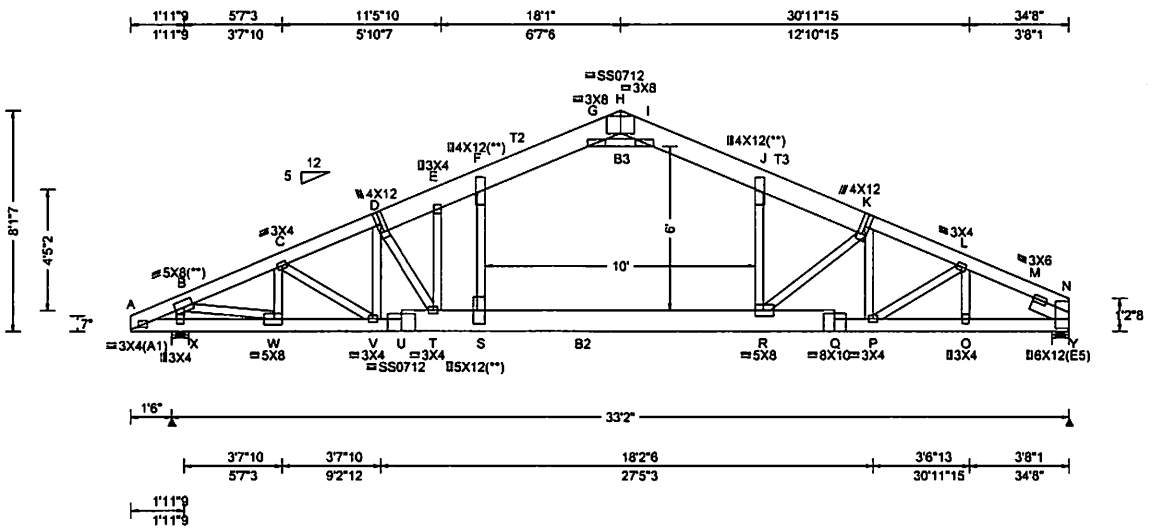
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75762 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-R-REV-2	Cust: R 9419 JRef: 1XUR94190002 T32
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De	DrwNo: 317.23.0705.37617
		Truss Label: A06-A	/ FK 11/13/2023



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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.210 S 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.446 S 884 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.078 E - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.172 E - -
NCBCLL:	10.00	Mean Height: 25.02 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.727
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.294
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.587
		C&C Dist a: 3.47 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	2397	/-	/-	/1065	/364	/250
Y	2208	/-	/-	/901	/343	/-

Wind reactions based on MWFRS
X Brg Wid = 7.6 Min Req = 2.0 (Truss)
Y Brg Wid = 7.6 Min Req = 1.8 (Truss)
Bearings X & Y 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	108	-385	H - I	649	-38
B - C	521	-3319	I - J	579	-3283
C - D	617	-3890	J - K	582	-3888
D - E	580	-3801	K - L	635	-3986
E - F	572	-3850	L - M	564	-3623
F - G	578	-3275	M - N	566	-3715
G - H	664	-46			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
X - W	508	-277	S - R	3347	-343
W - V	3062	-456	R - Q	3745	-490
V - U	3578	-457	Q - P	3743	-490
U - T	3580	-456	P - O	3151	-463
T - S	3304	-342	O - N	3156	-464

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
X - B	369	-2106	F - S	1481	-32
B - W	2602	-345	G - I	668	-4054
W - C	150	-742	R - J	1332	-55
C - V	694	-36	R - K	355	-688
V - D	185	-395	K - P	144	-608
D - T	431	-786	P - L	677	-30
E - T	198	-395			

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Rt Slider: 2x6 SPF #1/#2; block length = 1.500'

Plating Notes

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

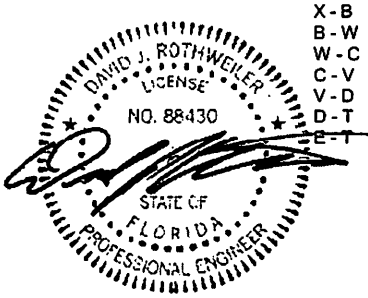
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



FL REQ# 278, David J. Rothweiler, FL PE# 88430

11/13/2023

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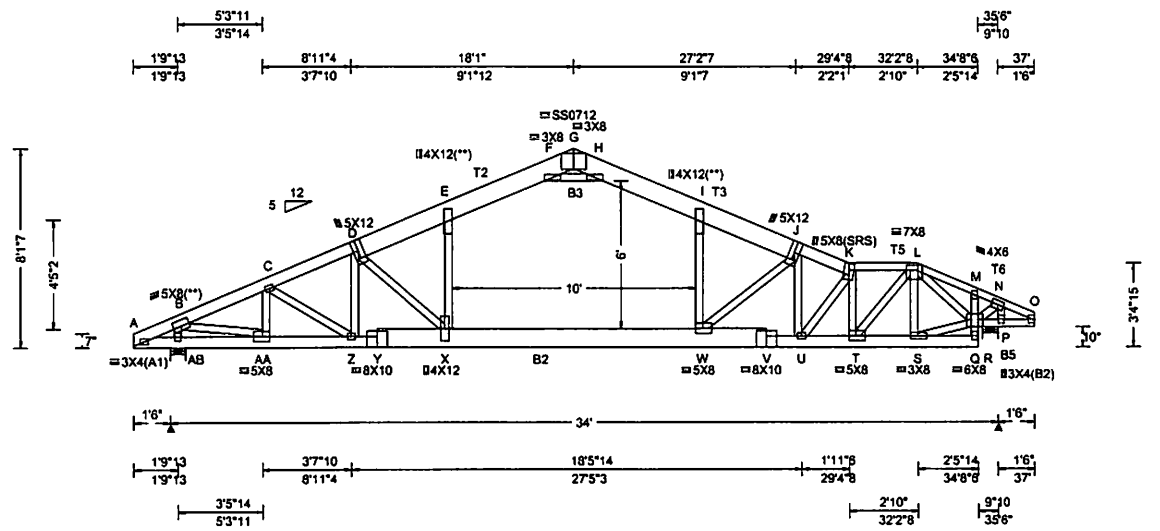
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75763 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-R-REV-2	Cust: R 9419 JRef: 1XUR94190002 T5
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De	DrwNo: 317.23.0705.40280
		Truss Label: A07	/ FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.229 W 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.480 W 833 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.070 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.152 E - -
NCBCLL: 10.00	Mean Height: 25.02 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.764
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.831
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.597
	C&C Dist a: 3.70 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AB	2428	/-	/-	/1095	/351	/258
Q	2394	/-	/-	/1066	/407	/-

Wind reactions based on MWFRS
AB Brg Wid = 7.6 Min Req = 2.0 (Truss)
Q Brg Wid = 7.6 Min Req = 3.8 (Truss)
Bearings AB & Q 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	105	-389	H - I	559	-3316
B - C	506	-3373	I - J	564	-3957
C - D	600	-3933	J - K	639	-4132
D - E	565	-3944	K - L	556	-3544
E - F	562	-3334	L - M	229	-1175
F - G	639	-34	M - N	201	-1175
G - H	657	-29			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A -AB	377	-90	W - V	3915	-499
AB-AA	514	-286	V - U	3913	-500
AA- Z	3106	-482	U - T	3719	-502
Z - Y	3671	-492	T - S	2051	-277
Y - X	3673	-492	Q - P	147	-494
X - W	3397	-341			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AB- B	359	-2143	W - J	312	-825
B -AA	2646	-333	J - U	107	-551
AA- C	143	-714	K - T	283	-1819
C - Z	663	-38	T - L	2328	-309
Z - D	112	-688	L - S	116	-610
D - X	332	-536	L - Q	233	-1382
X	1363	-55	S - Q	2130	-289
F - H	636	-4098	Q - N	1474	-213
W - I	1430	-62	N - P	254	-1525

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1; T5, T6 2x4 SPF #1/#2;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3,B5 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

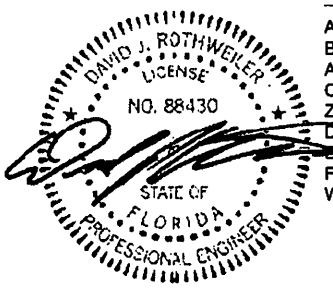
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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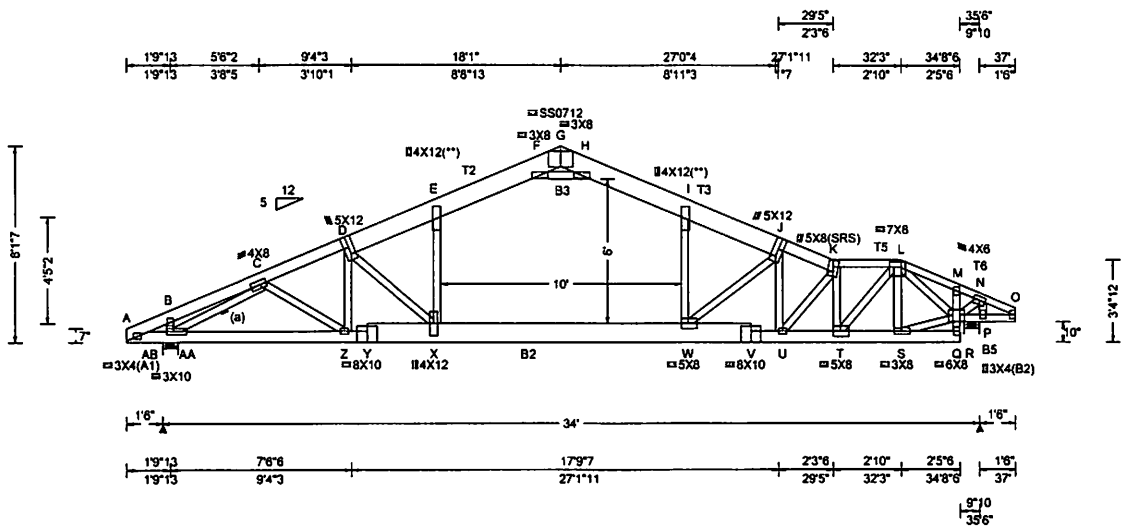
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120297 SPEC	Ply: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2	Cust: R 9419 JRef: 1XUR94190002 T20
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De	DrwNo: 317.23.0705.42837
		Truss Label: A08	/ FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.228 W 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.478 W 833 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.072 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.154 E - -
NCBCLL: 10.00	Mean Height: 25.02 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.762
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.828
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.525
	C&C Dist a: 3.70 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AB	2439	/-	/-	/1099	/353	/258
Q	2383	/-	/-	/1063	/406	/-

Wind reactions based on MWFRS
AB Brg Wid = 7.6 Min Req = 2.0 (Truss)
Q Brg Wid = 7.6 Min Req = 3.7 (Truss)
Bearings AB & Q 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	83	-484	H - I	555	-3289
B - C	97	-503	I - J	560	-3926
C - D	578	-3857	J - K	636	-4121
D - E	561	-3910	K - L	553	-3521
E - F	558	-3309	L - M	227	-1168
F - G	628	-32	M - N	200	-1169
G - H	648	-27			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A -AA	482	-69	W - V	3889	-496
AA- Z	2980	-487	V - U	3886	-496
Z - Y	3585	-472	U - T	3696	-499
Y - X	3587	-472	T - S	2026	-274
X - W	3369	-336	Q - P	147	-493

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AA	140	-390	J - U	108	-537
AA- C	489	-3181	K - T	283	-1815
C - Z	724	-11	T - L	2323	-308
Z - D	116	-745	L - S	115	-613
D - X	315	-459	L - Q	230	-1362
E - X	1337	-53	S - Q	2109	-286
E - H	631	-4060	Q - N	1465	-211
W - I	1421	-60	N - P	253	-1519
W - J	314	-829			

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1; T5, T6 2x4 SPF #1/#2;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3,B5 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

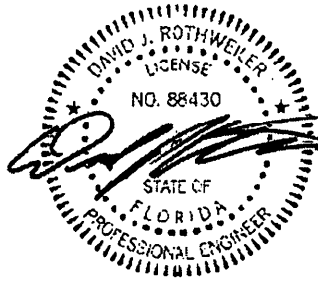
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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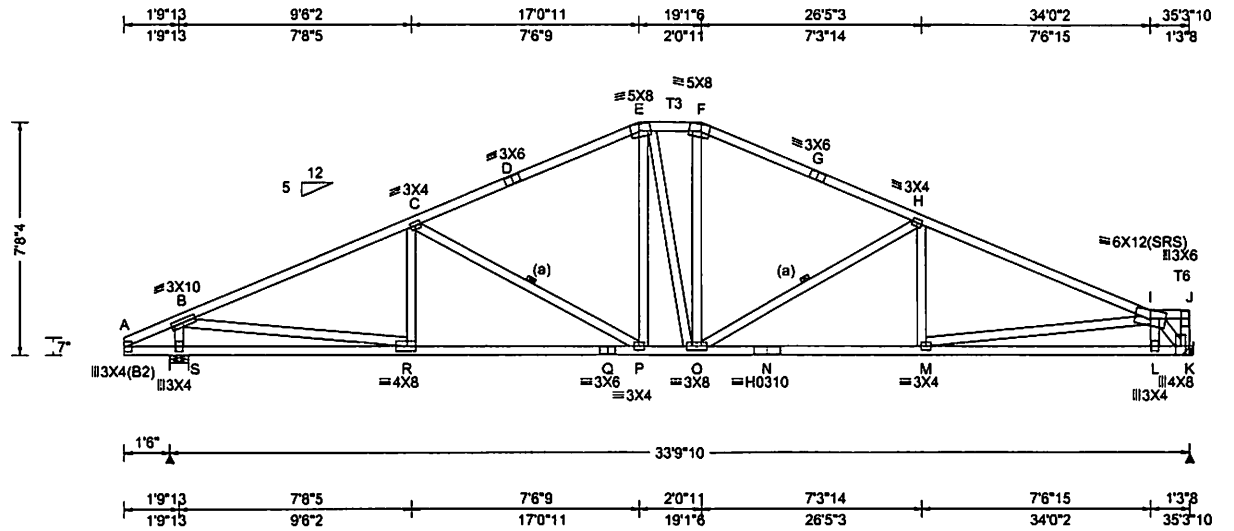
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75795 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** A10	Cust: R 9419 JRef:1XUR94190002 T15 DrwNo: 317.23.0705.44893 / FK 11/13/2023



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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.090 P 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.208 P 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.032 K - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.075 K - -
NCBCLL:	10.00	Mean Height: 24.80 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: 0.404
Spacing:	27.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: No	Max Web CSI: 0.650
		C&C Dist a: 3.53 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 10.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1937	/-	/-	/1225	/673	/272
K	1739	/-	/-	/1031	/625	/-

Wind reactions based on MWFRS
S Brg Wid = 7.6 Min Req = 1.6 (Truss)
K Brg Wid = - Min Req = -
Bearing S 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	1043	-2850	F - G	945	-2179
C - D	922	-2284	G - H	927	-2284
D - E	942	-2181	H - I	1119	-3071
E - F	941	-1999			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	483	-371	O - N	2732	-935
R - Q	2530	-871	N - M	2732	-935
Q - P	2530	-871	M - L	2035	-748
P - O	1988	-562	L - K	2050	-736

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	760	-1785	O - F	501	-164
B - R	2107	-619	O - H	435	-863
C - P	356	-625	M - I	710	-183
E - P	442	-128	I - K	995	-2773

Lumber

Top chord: 2x4 SP 2400f-2.0E; T3,
T6 2x4 SPF #1/#2;
Bot chord: 2x4 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

Bracing

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

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

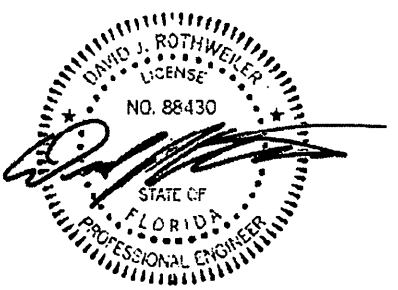
Wind

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

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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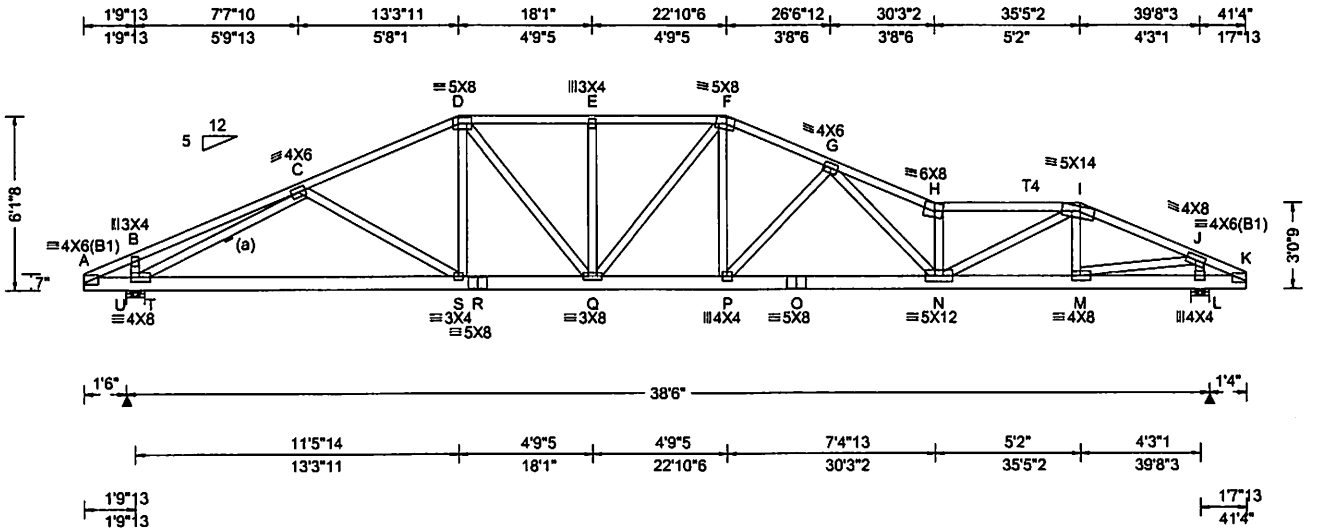
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75766 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** A11	Cust: R 9419 JRef: 1XUR94190002 T9 DrwNo: 317.23.0705.46973 / FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 24.02 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.13 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.203	H	999	360
VERT(CL): 0.471	H	961	240
HORZ(LL): 0.048	D	-	-
HORZ(TL): 0.112	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.267
Max Web CSI: 0.592

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	1929	/-	/-	/1238	/724	/194
L	1898	/-	/-	/1218	/714	/-

Wind reactions based on MWFRS
U Brg Wid = 7.6 Min Req = 1.6 (Truss)
L Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings U & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	58	-454	F - G	1324	-3139
B - C	132	-467	G - H	2043	-5027
C - D	1118	-2715	H - I	1788	-4480
D - E	1251	-2796	I - J	1085	-2754
E - F	1251	-2796			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - T	417	-63	P - O	3522	-1280
T - S	2478	-940	O - N	3522	-1280
S - R	2428	-774	N - M	2491	-906
R - Q	2428	-774	M - L	394	-148
Q - P	2848	-949			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
T - C	1089	-2521	H - N	968	-2202
D - Q	581	-263	N - I	2261	-842
F - P	951	-324	I - M	207	-388
P - G	495	-1009	M - J	2176	-777
G - N	1605	-630	J - L	711	-1691

Lumber

Top chord: 2x4 SPF #1/#2; T4 2x4 SPF 1650f-1.5E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

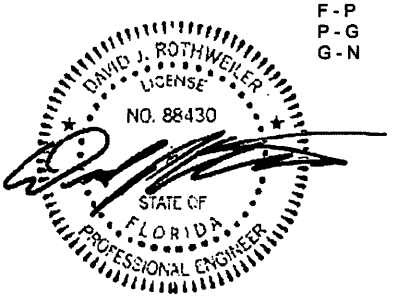
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



FL REQ# 278, David J. Rothweiler, FL PE# 88430

11/13/2023

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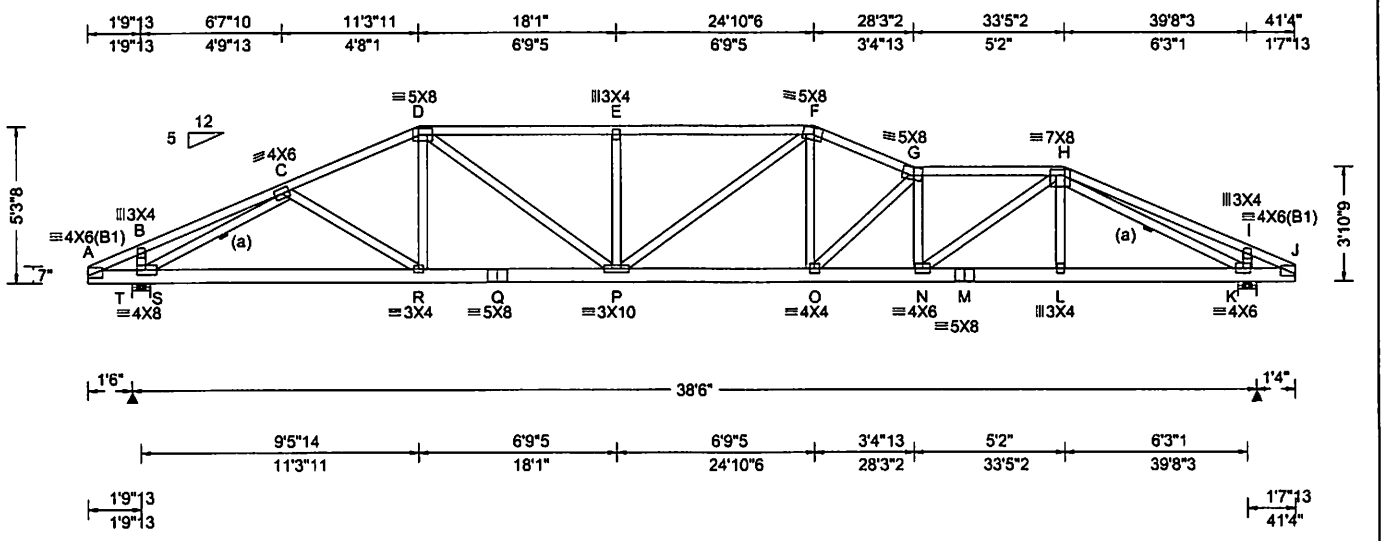
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75767 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** A12	Cust: R 9419 JRef: 1XUR94190002 T6 DrwNo: 317.23.0705.48990 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.171 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.396 E 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.043 D - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.099 D - -
NCBCLL: 10.00	Mean Height: 23.61 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.891
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.250
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.599
	C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 6.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1922	/-	/-	/1239	/816	/165
K	1905	/-	/-	/1225	/810	/-

Wind reactions based on MWFRS
T Brg Wid = 7.6 Min Req = 1.6 (Truss)
K Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings T & 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.
C - D	1278	-2778	G - H	1767	-3811
D - E	1591	-3290	H - I	362	-612
E - F	1591	-3290	I - J	266	-554
F - G	1621	-3484			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2371	-1009	N - M	2509	-988
R - Q	2508	-948	M - L	2509	-988
Q - P	2508	-948	L - K	2506	-991
P - O	3180	-1253	K - J	565	-282
O - N	3886	-1608			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - C	1186	-2560	G - N	475	-913
D - P	974	-444	N - H	1610	-714
E - P	372	-528	H - K	923	-2391
F - O	878	-329	K - I	401	-491
O - G	509	-1014			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

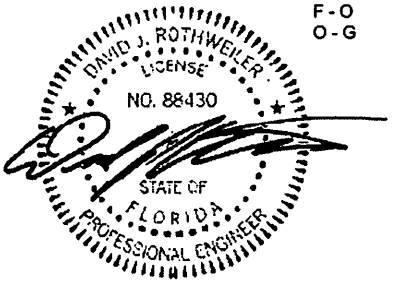
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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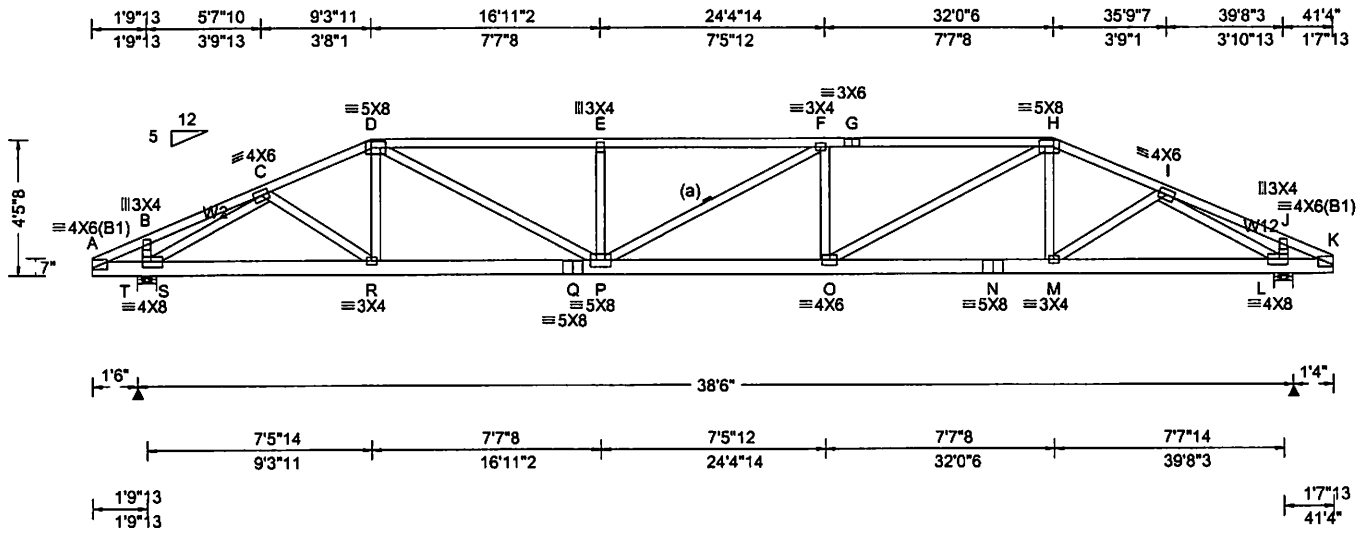
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75768 HIPS	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-R-REV-2	Cust: R 9419 JRef: 1XUR94190002 T14
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De	DrwNo: 317.23.0705.50870
		Truss Label: A13	/ FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.163 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.378 E 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.038 D - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.089 D - -
NCBCLL: 10.00	Mean Height: 23.19 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.494
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.234
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.821
	C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 6.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1922	/-	/-	/1236	/807	/136
L	1905	/-	/-	/1222	/801	/-

Wind reactions based on MWFRS
T Brg Wid = 7.6 Min Req = 1.6 (Truss)
L Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings T & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	1269	-2806	F - G	1799	-3876
D - E	1806	-3886	G - H	1799	-3876
E - F	1806	-3886	H - I	1289	-2854

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2210	-920	O - N	2605	-1010
R - Q	2561	-990	N - M	2605	-1010
Q - P	2561	-990	M - L	2291	-959
P - O	3915	-1594			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - C	1113	-2535	F - O	379	-547
C - R	439	-182	O - H	1457	-634
D - P	1511	-662	M - I	388	-166
E - P	384	-550	I - L	1124	-2538

Lumber

Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W2,W12 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

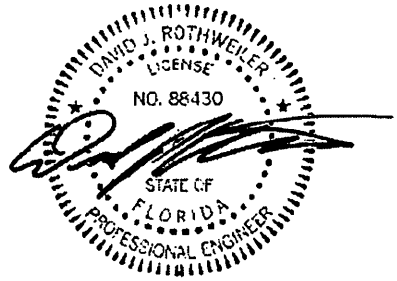
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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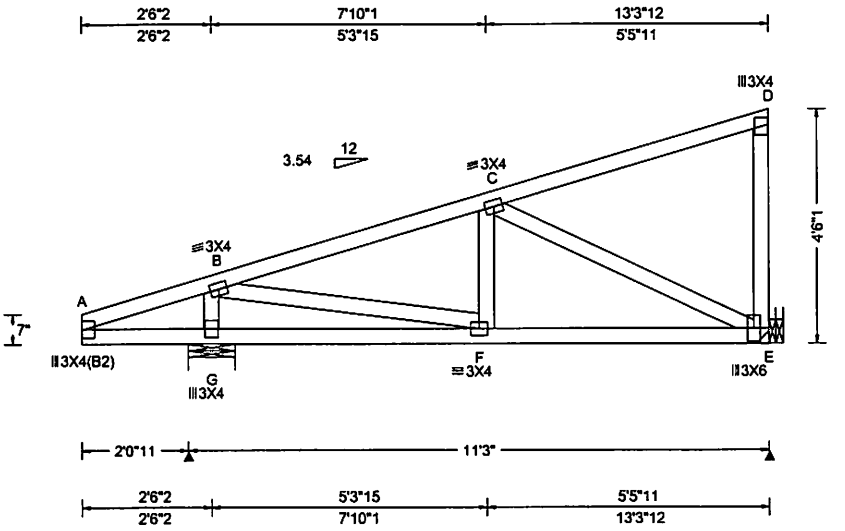
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75769 HIP_ FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** CJ01	Cust: R 9419 JRef: 1XUR94190002 T19 DrwNo: 317.23.0705.52213 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.027 C 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.031 F 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.008 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.009 E - -
NCBCLL: 10.00	Mean Height: 23.21 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.740
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.807
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.507
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	584	/-	/-	/-	/504	/-
E	586	/-	/-	/-	/486	/-

Wind reactions based on MWFRS
G Brg Wid = 10.8 Min Req = 1.5 (Truss)
E Brg Wid = - Min Req = -
Bearing G is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	813	-824

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
F - E	758	-749

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	395	-549	C - E	833	-843
B - F	774	-532			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

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

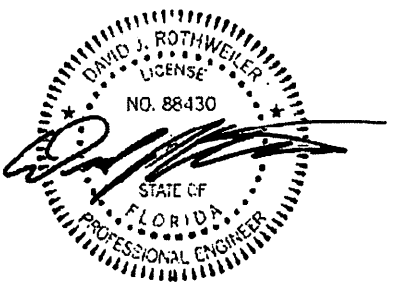
TC: From 2 plf at 0.00 to 2 plf at 13.31
BC: From 20 plf at 0.00 to 20 plf at 4.87
BC: From 2 plf at 4.87 to 2 plf at 13.31
TC: 209 lb Conc. Load at 4.87
TC: 206 lb Conc. Load at 7.70
TC: 328 lb Conc. Load at 10.53
BC: -125 lb Conc. Load at 4.87
BC: 94 lb Conc. Load at 7.70
BC: 216 lb Conc. Load at 10.53

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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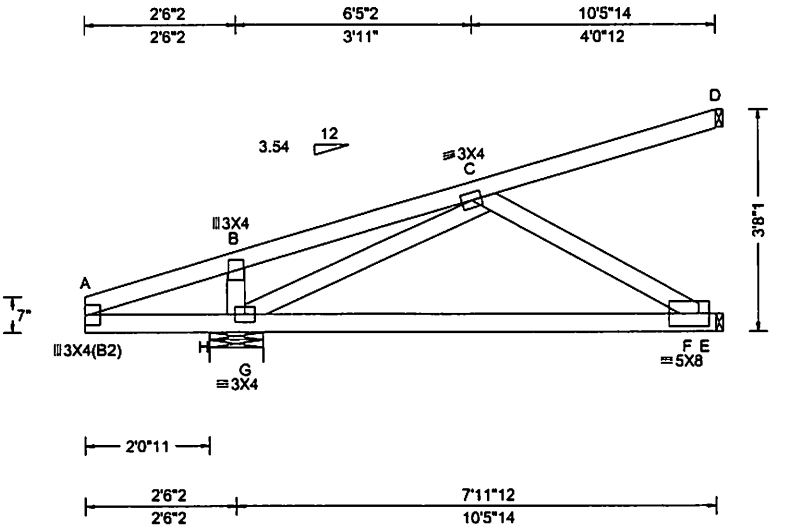
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155 Harlem Ave
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Glenview, IL 60025

SEQN: 75770 HIP_ FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** CJ02	Cust: R 9419 JRef:1XUR94190002 T10 DrwNo: 317.23.0705.53620 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.029 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.038 F 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.011 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.012 C - -
NCBCLL: 10.00	Mean Height: 22.79 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.296
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.517
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.133
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	500	/-	/-	/-	/338	/-
E	192	/-	/-	/-	/233	/-
D	55	/-	/-	/-	/40	/-

Wind reactions based on MWFRS
H Brg Wid = 10.8 Min Req = 1.5 (Truss)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - F	418	-323

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

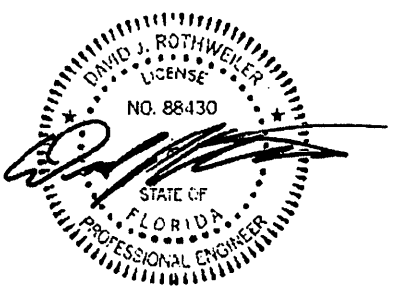
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	2 plf at	0.00 to	2 plf at	10.49
BC: From	20 plf at	0.00 to	20 plf at	4.87
BC: From	2 plf at	4.87 to	2 plf at	10.49

TC: 209 lb Conc. Load at 4.87
TC: 206 lb Conc. Load at 7.70
BC: -124 lb Conc. Load at 4.87
BC: 95 lb Conc. Load at 7.70

Wind

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



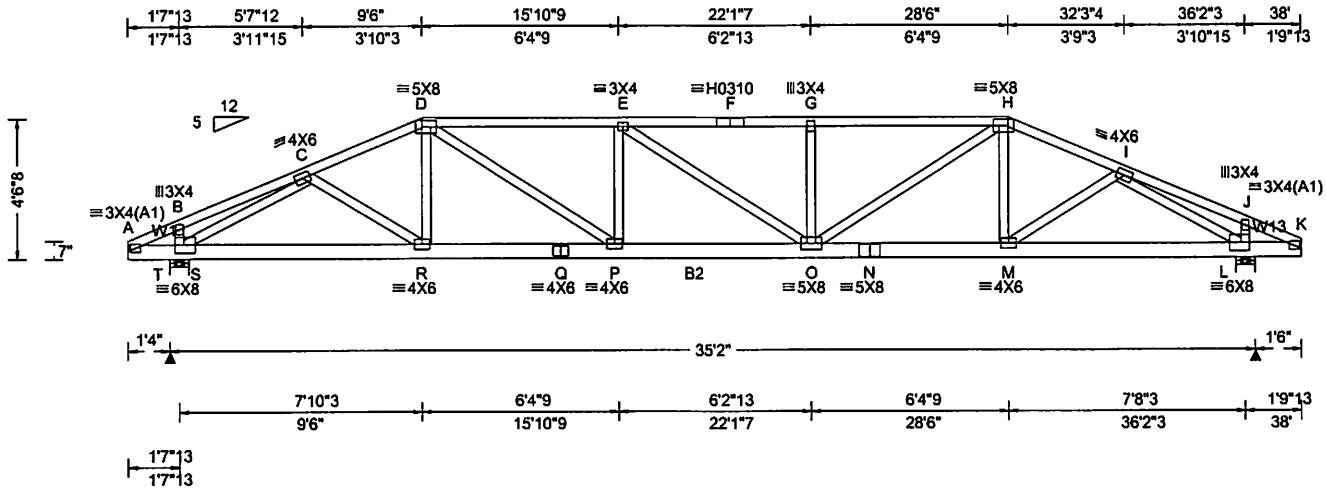
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Glenview, IL 60025

SEQN: 75771 HIPS FROM:	Ply: 2 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G01	Cust: R 9419 JRef: 1XUR94190002 T11 DrwNo: 317.23.0705.55450 / FK 11/13/2023

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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.272 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.435 G 943 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.069 D - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.110 D - -
NCBCLL: 0.00	Mean Height: 23.23 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.683
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.761
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.744
	C&C Dist a: 3.80 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
T	3780 / -	/ -	/ -	/2484	/ -
L	3817 / -	/ -	/ -	/2508	/ -

Wind reactions based on MWFRS
T Brg Wid = 7.6 Min Req = 3.0 (Truss)
L Brg Wid = 7.6 Min Req = 3.0 (Truss)
Bearings T & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	2277	-3308	F - G	2886	-4171
D - E	2890	-4177	G - H	2886	-4172
E - F	2886	-4171	H - I	2251	-3269

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2573	-1760	O - N	2995	-2063
R - Q	3031	-2087	N - M	2995	-2063
Q - P	3031	-2087	M - L	2499	-1711
P - O	4184	-2895			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - C	2042	-2924	O - H	1408	-982
C - R	557	-389	M - I	605	-424
D - P	1381	-965	I - L	2031	-2916

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF #1/#2; B2 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W1,W13 2x4 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 8.75" 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	73 plf at	0.00 to	73 plf at	9.50	
TC: From	36 plf at	9.50 to	36 plf at	28.50	
TC: From	73 plf at	28.50 to	73 plf at	38.00	
BC: From	20 plf at	0.00 to	20 plf at	9.51	
BC: From	10 plf at	9.51 to	10 plf at	28.49	
BC: From	20 plf at	28.49 to	20 plf at	38.00	

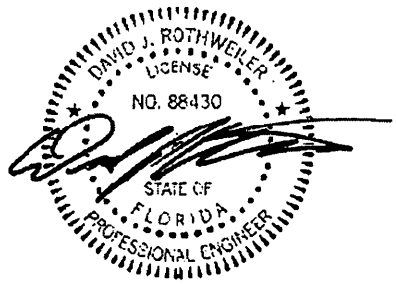
BC: 930 lb Conc. Load at 9.51,28.49
BC: 344 lb Conc. Load at 11.56,13.56,15.56,17.56 19.00,20.44,22.44,24.44,26.44

Purlins

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

Wind

Wind loads and reactions based on MWFRS.
Left and right cantilevers are exposed to wind
Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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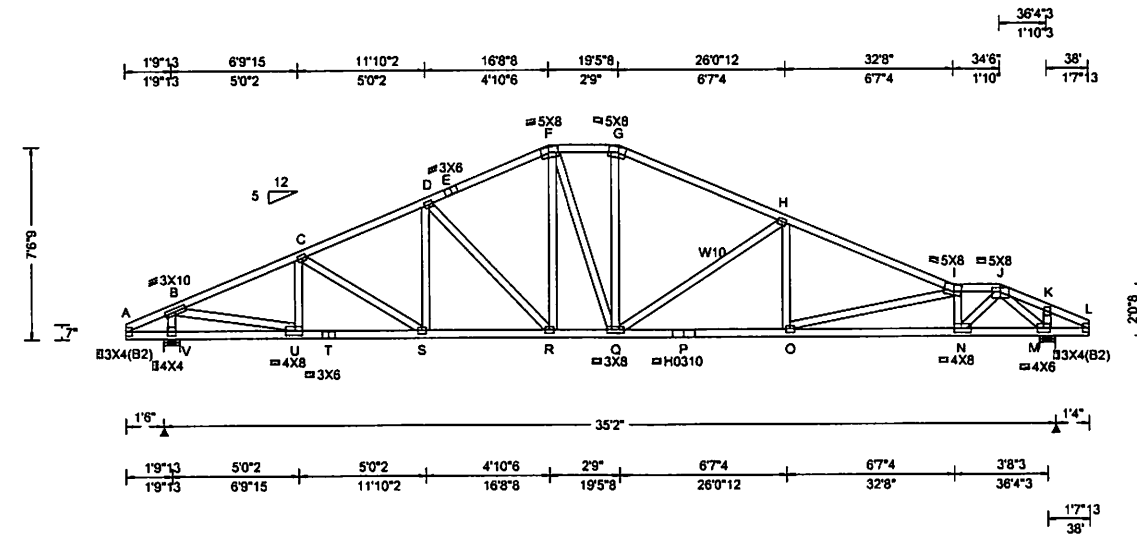
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75772 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G02	Cust: R 9419 JRef:1XUR94190002 T13 DrwNo: 317.23.0705.57410 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.124 H 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.289 H 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.049 M - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.115 M - -
NCBCLL: 10.00	Mean Height: 24.73 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.715
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.834
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.655
	C&C Dist a: 3.80 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
V	1763 /-	/-	/-	/833	/-
M	1814 /-	/-	/-	/890	/-

Wind reactions based on MWFRS
V Brg Wid = 7.6 Min Req = 2.8 (Truss)
M Brg Wid = 7.6 Min Req = 2.8 (Truss)
Bearings V & 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	1151	-2427	F - G	897	-1902
C - D	1164	-2439	G - H	1041	-2152
D - E	1002	-2084	H - I	1395	-2912
E - F	983	-2058	I - J	1301	-2740

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
U - T	2202	-1036	Q - P	2600	-1234
T - S	2202	-1036	P - O	2600	-1234
S - R	2183	-1031	O - N	2964	-1421
R - Q	1854	-875	N - M	1458	-691

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	853	-1657	Q - H	411	-855
B - U	2027	-950	I - N	727	-1363
D - R	231	-488	N - J	1940	-920
F - R	417	-146	J - M	1009	-2113
Q - G	463	-133			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W10 2x4 SPF 1650f-1.5E;

Special Loads

——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 73 plf at 0.00 to 73 plf at 38.00
BC: From 20 plf at 0.00 to 20 plf at 38.00
TC: 45 lb Conc. Load at 34.54
BC: 14 lb Conc. Load at 34.54

Plating Notes

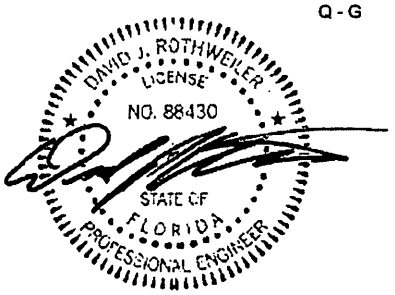
All plates are 3X4 except as noted.

Purlins

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

Wind

Wind loads and reactions based on MWFRS.
Left and right cantilevers are exposed to wind
Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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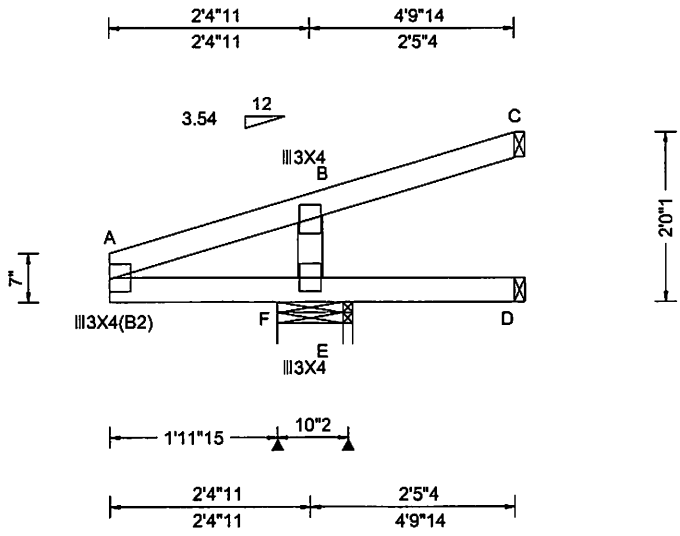
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ALPINE
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75773 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G03	Cust: R 9419 JRef:1XUR94190002 T12 DrwNo: 317.23.0705.58743 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.047 A 643 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.103 A 295 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.019 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.042 C - -
NCBCLL: 10.00	Mean Height: 21.96 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.255
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.267
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.041
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	700	/-	/-	/638	/364	/94
E	-	/-286	/-	/199	/330	/-
D	14	/-7	/-	/22	/11	/-
C	45	/-24	/-	/9	/54	/-

Wind reactions based on MWFRS
F Brg Wid = 9.4 Min Req = 1.5 (Truss)
E Brg Wid = 1.4 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearings F & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS.

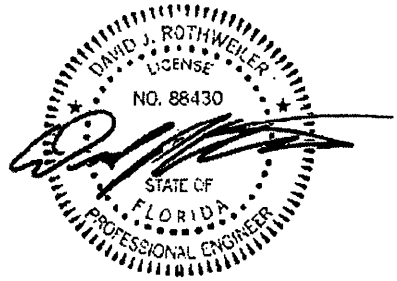
Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -286# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

++ Anchorage req'd to prevent truss from slipping off bearing.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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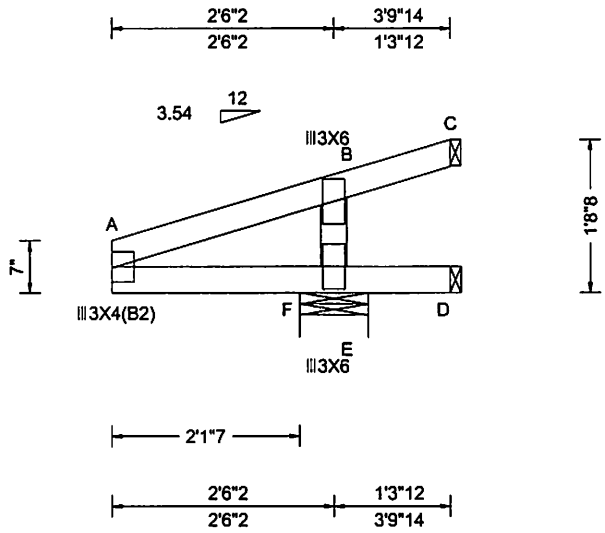
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ALPINE
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75774 HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G05	Cust: R 9419 JRef: 1XUR94190002 T21 DrwNo: 317.23.0706.00207 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.050 A 635 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.115 A 276 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.020 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.046 C - -
NCBCLL: 10.00	Mean Height: 22.65 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.272
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.243
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.060
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	571	/-	/-	/-	/297	/-
D	-	/-118	/-	/64	/-	/-
C	-	/-126	/-	/51	/-	/-

Wind reactions based on MWFRS
F Brg Wid = 9.3 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

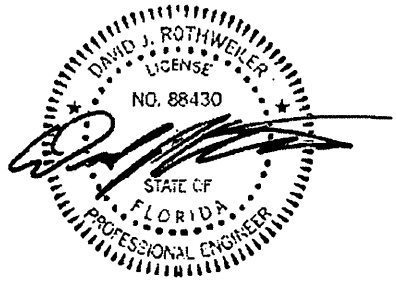
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads and reactions based on MWFRS.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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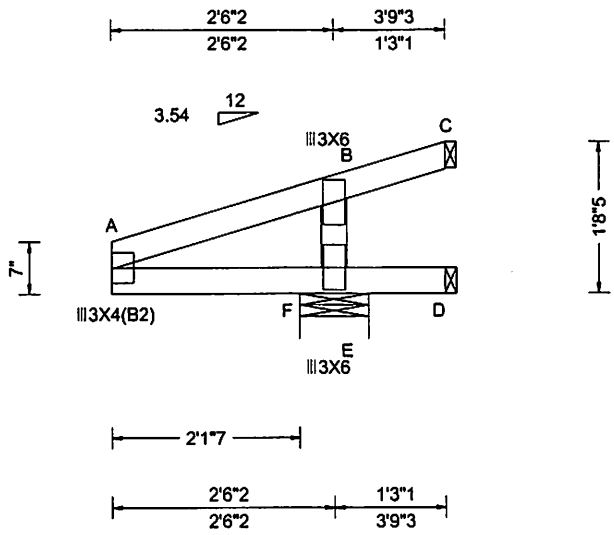
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75775 HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G06	Cust: R 9419 JRef: 1XUR94190002 T24 DrwNo: 317.23.0706.01543 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.050 A 641 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.114 A 279 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.020 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.046 C - -
NCBCLL: 10.00	Mean Height: 22.64 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.272
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.243
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.060
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	582	/-	/-	/-	/303	/-
D	-	/-126	/-	/67	/-	/-
C	-	/-135	/-	/57	/-	/-

Wind reactions based on MWFRS
F Brg Wid = 9.3 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

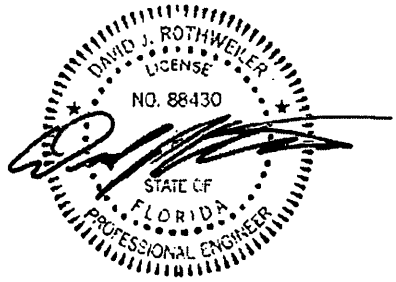
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads and reactions based on MWFRS.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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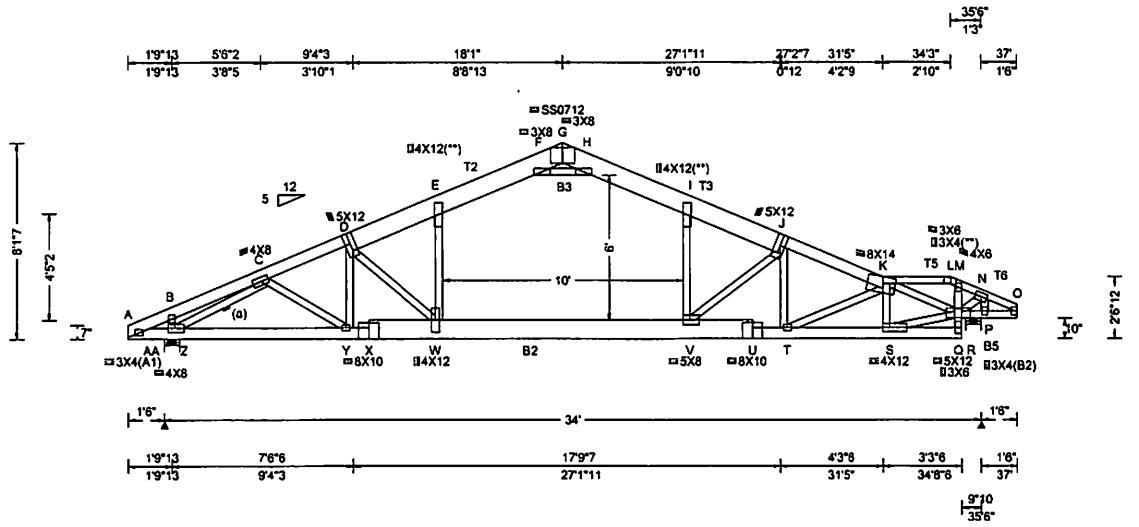
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120295 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G07	Cust: R 9419 JRef: 1XUR94190002 T3 DrwNo: 317.23.0706.04993 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.232 V 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.478 V 833 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.074 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.155 E - -
NCBCLL: 10.00	Mean Height: 25.02 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.868
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.721
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.770
	C&C Dist a: 3.70 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AA	2439 / -	/ -	/ -	/848	/ -
Q	2383 / -	/ -	/ -	/826	/ -

Wind reactions based on MWFRS
AA Brg Wid = 7.6 Min Req = 2.0 (Truss)
Q Brg Wid = 7.6 Min Req = 3.7 (Truss)
Bearings AA & Q 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	105	-484	H - I	1000	-3288
B - C	96	-503	I - J	1130	-3930
C - D	1195	-3857	J - K	1322	-4216
D - E	1120	-3909	K - L	311	-992
E - F	1006	-3308	L - M	319	-964
F - G	627	-53	M - N	357	-1133
G - H	648	-60			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - Z	482	-104	V - U	3923	-1203
Z - Y	2980	-982	U - T	3921	-1203
Y - X	3585	-1086	T - S	3486	-1113
X - W	3587	-1086	Q - P	191	-488
W - V	3368	-963			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Z	230	-390	V - J	341	-872
Z - C	1140	-3181	J - T	81	-440
C - Y	724	-120	T - K	518	-122
Y - D	177	-745	K - S	403	-1018
D - W	173	-461	K - Q	842	-2575
E - W	1339	-121	S - Q	3412	-1082
E - V	1014	-4058	Q - N	1397	-472
W - I	1434	-159	N - P	542	-1514

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1; T5, T6 2x4 SPF #1/#2;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3 2x4 SPF #1/#2;
B5 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF, Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

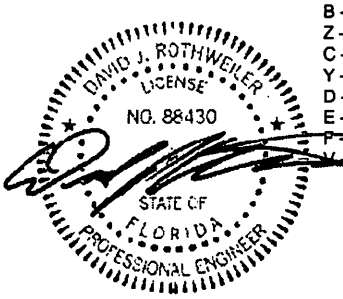
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads and reactions based on MWFRS.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



FL REQ# 278, David J. Rothweiler, FL PE# 88430

11/13/2023

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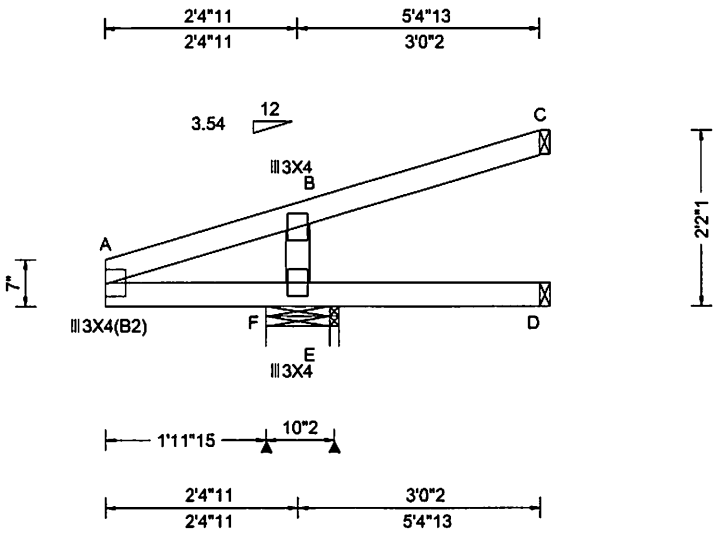
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75777 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G08	Cust: R 9419 JRef: 1XUR94190002 T7 DrwNo: 317.23.0706.06643 / FK 11/13/2023



Loading Criteria (psf)	
TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 22.05 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: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.050 A	605	360
VERT(CL):	0.105 A	288	240
HORZ(LL):	-0.021 C	-	-
HORZ(TL):	0.043 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.271
Max BC CSI: 0.274
Max Web CSI: 0.046

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	706	/-	/-	/655	/374	/105
E	-	/-299	/-	/218	/354	/-
D	30	/-	/-	/20	/3	/-
C	70	/-2	/-	/24	/74	/-

Wind reactions based on MWFRS
F Brg Wid = 9.5 Min Req = 1.5 (Truss)
E Brg Wid = 1.3 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearings F & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS.

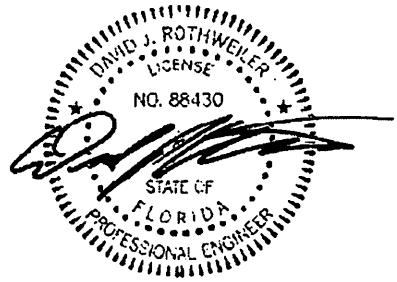
Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -299# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

++ Anchorage req'd to prevent truss from slipping off bearing.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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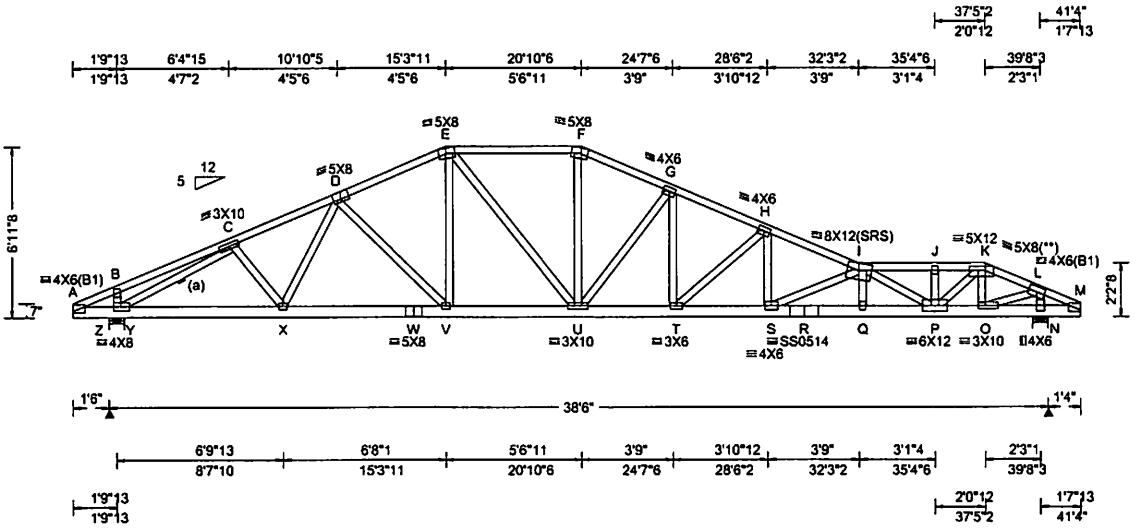
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75778 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G09	Cust: R 9419 JRef:1XUR94190002 T30 DrwNo: 317.23.0706.09443 / FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 24.44 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.13 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.194	S	999	360
VERT(CL): 0.448	S	999	240
HORZ(LL): 0.048	E	-	-
HORZ(TL): 0.111	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.333
Max BC CSI: 0.460
Max Web CSI: 0.824

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
Z	1993 /-	/-	/-	/888	/-
N	2440 /-	/-	/-	/1176	/-

Wind reactions based on MWFRS
Z Brg Wid = 7.6 Min Req = 1.7 (Truss)
N Brg Wid = 7.6 Min Req = 2.0 (Truss)
Bearings Z & N 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	1257	-2852	H - I	2272	-5011
D - E	1214	-2696	I - J	2162	-4684
E - F	1202	-2688	J - K	2162	-4684
F - G	1327	-2938	K - L	1396	-2892
G - H	1717	-3796			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	2457	-1106	S - R	6540	-2977
X - W	2612	-1171	R - Q	6540	-2977
W - V	2612	-1171	Q - P	6536	-2970
V - U	2433	-1083	P - O	2630	-1263
U - T	3401	-1530	O - N	403	-181
T - S	4510	-2038			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Y - C	1238	-2660	H - S	1143	-462
E - V	394	-54	S - I	1017	-2189
E - U	406	-188	I - P	939	-2157
U - F	764	-264	P - K	2753	-1201
U - G	553	-1216	K - O	334	-837
G - T	1049	-420	O - L	2438	-1176
T - H	669	-1450	L - N	1094	-2200

Lumber
Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

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

Special Loads
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

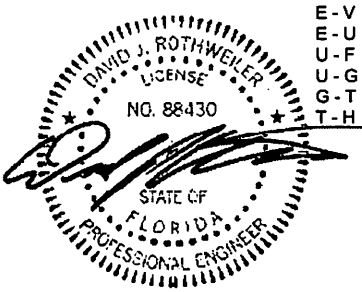
TC: From	73 plf at	0.00 to	73 plf at	35.37
TC: From	36 plf at	35.37 to	36 plf at	37.43
TC: From	73 plf at	37.43 to	73 plf at	41.34
BC: From	20 plf at	0.00 to	20 plf at	35.37
BC: From	10 plf at	35.37 to	10 plf at	37.42
BC: From	20 plf at	37.42 to	20 plf at	41.34

TC: 161 lb Conc. Load at 35.37
TC: 112 lb Conc. Load at 37.42
BC: 238 lb Conc. Load at 35.37
BC: 31 lb Conc. Load at 37.42

Plating Notes
All plates are 3X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

Wind
Wind loads and reactions based on MWFRS.
Left and right cantilevers are exposed to wind
Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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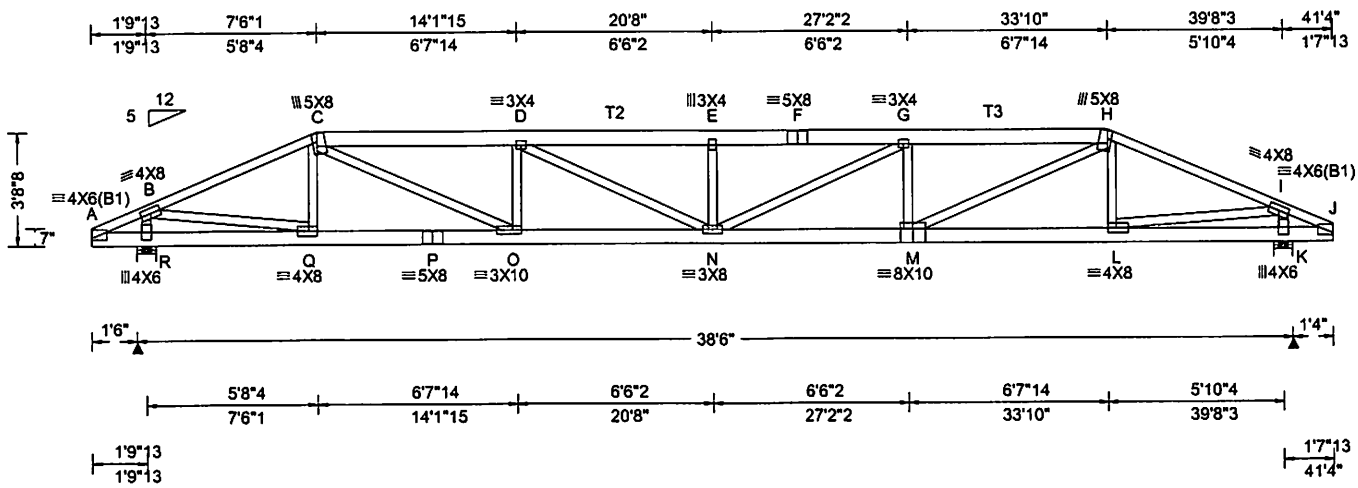
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75779 HIPS FROM:	Ply: 2 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G10	Cust: R 9419 JRef: 1XUR94190002 T2 DrwNo: 317.23.0706.11443 / FK 11/13/2023

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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.303 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.483 E 941 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.053 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.084 C - -
NCBCLL: 0.00	Mean Height: 22.81 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.230
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.296
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.643
	C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 6.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
R	3425 /-	/-	/-	/2286	/-
K	3395 /-	/-	/-	/2266	/-

Wind reactions based on MWFRS
R Brg Wid = 7.6 Min Req = 1.5 (Truss)
K Brg Wid = 7.6 Min Req = 1.5 (Truss)
Bearings R & 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	1970	-2819	F - G	3595	-5146
C - D	3112	-4455	G - H	3133	-4484
D - E	3595	-5146	H - I	2015	-2885
E - F	3595	-5146			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	394	-254	N - M	4546	-3181
Q - P	2589	-1814	M - L	2646	-1852
P - O	2589	-1814	L - K	457	-295
O - N	4518	-3161			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - B	1088	-1564	N - G	676	-466
B - Q	2232	-1572	G - M	543	-709
C - O	2093	-1454	M - H	2062	-1434
O - D	553	-723	L - I	2220	-1567
D - N	708	-488	I - K	1070	-1535
E - N	330	-397			

Lumber

Top chord: 2x4 SP 2400f-2.0E; T2, T3 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

Nailnote

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

Special Loads

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

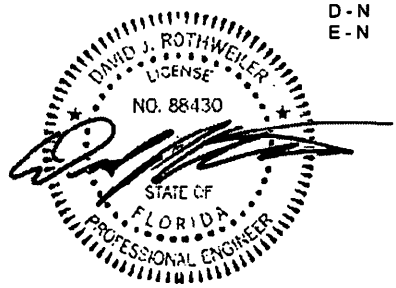
TC: From 73 plf at 0.00 to 73 plf at 7.50
TC: From 36 plf at 7.50 to 36 plf at 33.83
TC: From 73 plf at 33.83 to 73 plf at 41.34
BC: From 20 plf at 0.00 to 20 plf at 7.51
BC: From 10 plf at 7.51 to 10 plf at 33.82
BC: From 20 plf at 33.82 to 20 plf at 41.34
TC: 202 lb Conc. Load at 7.51,33.82
TC: 147 lb Conc. Load at 9.57,11.57,13.57,15.57 17.57,19.57,20.67,21.77,23.77,25.77,27.77,29.77 31.77
BC: 293 lb Conc. Load at 7.51,33.82
BC: 101 lb Conc. Load at 9.57,11.57,13.57,15.57 17.57,19.57,20.67,21.77,23.77,25.77,27.77,29.77 31.77

Purlins

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

Wind

Wind loads and reactions based on MWFRS.
Left and right cantilevers are exposed to wind
Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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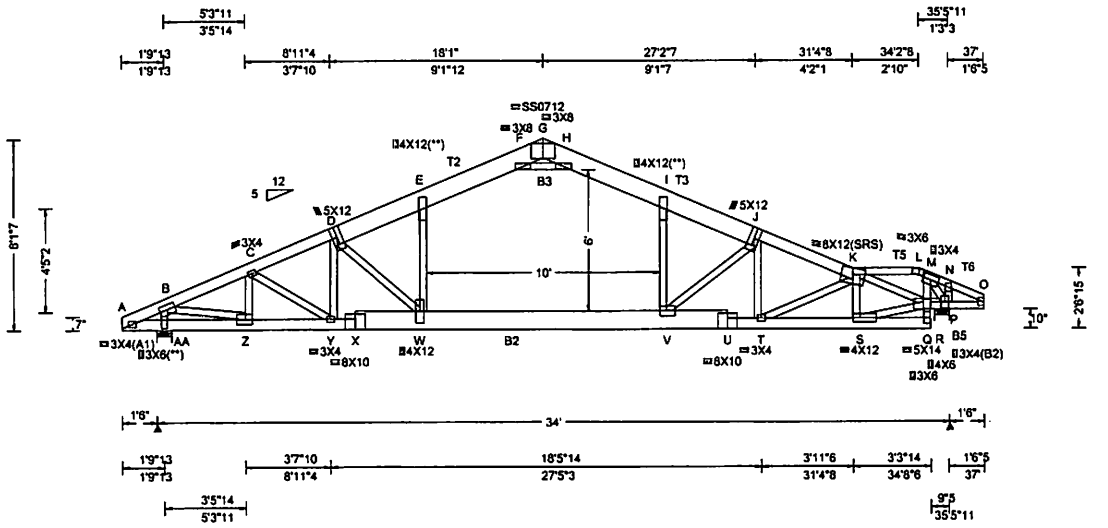
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75780 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** G11	Cust: R 9419 JRef: 1XUR94190002 T26 DrwNo: 317.23.0706.14917 / FK 11/13/2023



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**				**▲Maximum Reactions (lbs)**					
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#		Gravity			Non-Gravity	
TCDL:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.234	V	999	360	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.483	V	832	240	AA	2438 /-	/-	/-	/848	/-
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.071	E	-	-	Q	2383 /-	/-	/-	/826	/-
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.151	E	-	-	Wind reactions based on MWFRS					
NCBCLL:	10.00	Mean Height: 25.02 ft	Building Code:	Creep Factor: 2.0				AA Brg Wid = 7.6 Min Req = 2.0 (Truss)					
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.887				Q Brg Wid = 7.6 Min Req = 3.7 (Truss)					
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.327				Bearings AA & Q are a rigid surface.					
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.800				Members not listed have forces less than 375#					
		C&C Dist a: 3.70 ft	FT/RT/PT:10(0)/3(0)/1(0)					**Maximum Top Chord Forces Per Ply (lbs)**					
		Loc. from endwall: not in 9.00 ft	Plate Type(s):					Chords	Tens.	Comp.	Chords	Tens.	Comp.
		GCpi: 0.18		VIEW Ver: 22.02.00.0914.21				A - B	104	-391	G - H	666	-67
		Wind Duration: 1.33	WAVE, 18SS					B - C	1102	-3389	H - I	1017	-3339
								C - D	1243	-3954	I - J	1152	-3995
								D - E	1141	-3973	J - K	1354	-4314
								E - F	1023	-3360	K - L	374	-1154
								F - G	645	-59	L - M	382	-1122

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1; T5, T6 2x4 SPF #1/#2;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3,B5 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 5X8 except as noted.

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

Loading

Attic room loading from 13-1-0 to 23-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

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

Wind

Wind loads and reactions based on MWFRS.

Left and right cantilevers are exposed to wind

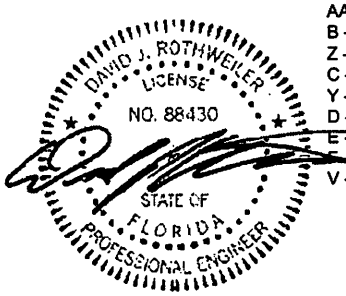
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A -AA	379	-93	W - V	3423	-982
AA- Z	517	-145	V - U	4014	-1233
Z - Y	3122	-1001	U - T	4012	-1233
Y - X	3691	-1133	T - S	3639	-1167
X - W	3693	-1132	Q - P	1003	-324

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- B	798	-2153	V - J	359	-919
B - Z	2659	-858	J - T	70	-419
Z - C	305	-717	T - K	461	-100
C - Y	667	-150	K - S	415	-1047
Y - D	133	-699	K - Q	828	-2546
D - W	214	-529	S - Q	3544	-1132
E - W	1370	-130	Q - M	2147	-666
H	1040	-4133	M - P	835	-2384
V - I	1471	-173			



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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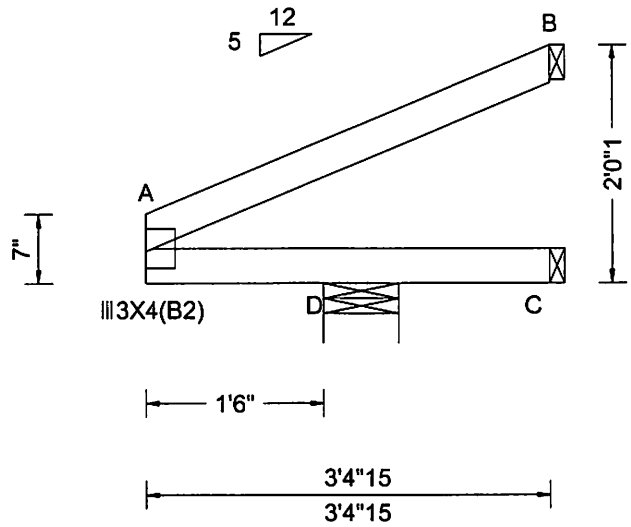
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75781 JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J01	Cust: R 9419 JRef: 1XUR94190002 T37 DrwNo: 317.23.0706.16487 / FK 11/13/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 145 mph Enclosure: Closed Risk Category: II EXP: D Kzt: NA Mean Height: 21.96 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: 1.33	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/PT:10(0)/3(0)/1(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.049 A 442 360 VERT(CL): 0.114 A 191 240 HORZ(LL): -0.026 B - - HORZ(TL): 0.061 B - - Creep Factor: 2.0 Max TC CSI: 0.148 Max BC CSI: 0.363 Max Web CSI: 0.000 VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	338	/-	/-	/298	/92	/93
C	-	/-126	/-	/47	/101	/-
B	104	/-	/-	/66	/107	/-

Wind reactions based on MWFRS
D Brg Wid = 7.6 Min Req = 1.5 (Truss)
C Brg Wid = 1.5 Min Req = -
B Brg Wid = 1.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

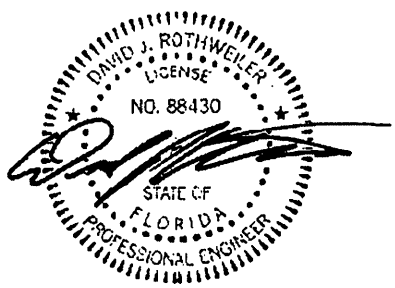
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

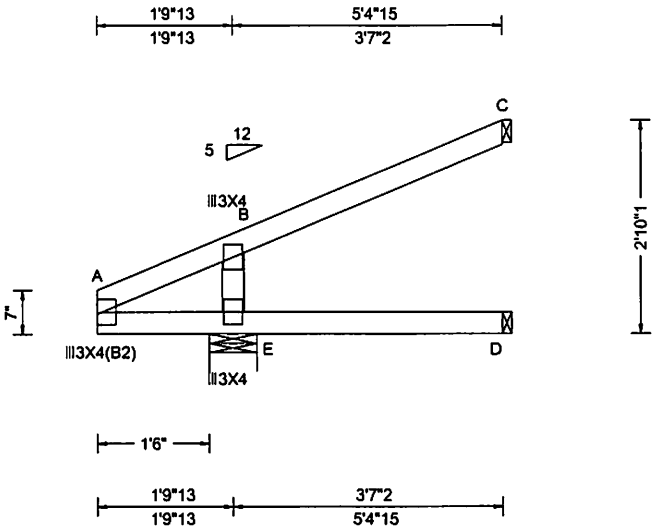


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75782 JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J02	Cust: R 9419 JRef: 1XUR94190002 T36 DrwNo: 317.23.0706.17780 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.049 A 480 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.050 A 466 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.029 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.034 C - -
NCBCLL: 10.00	Mean Height: 22.38 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.220
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.195
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.052
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	393	/-	/-	/322	/108	/150
C	103	/-	/-	/54	/116	/-
D	47	/-	/-	/25	/8	/-

Wind reactions based on MWFRS
E Brg Wid = 7.6 Min Req = 1.5 (Truss)
C Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

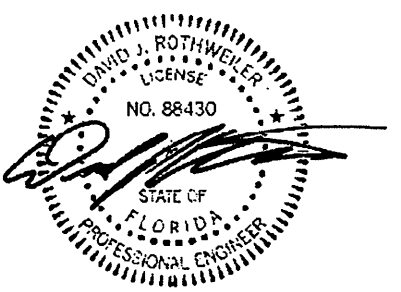
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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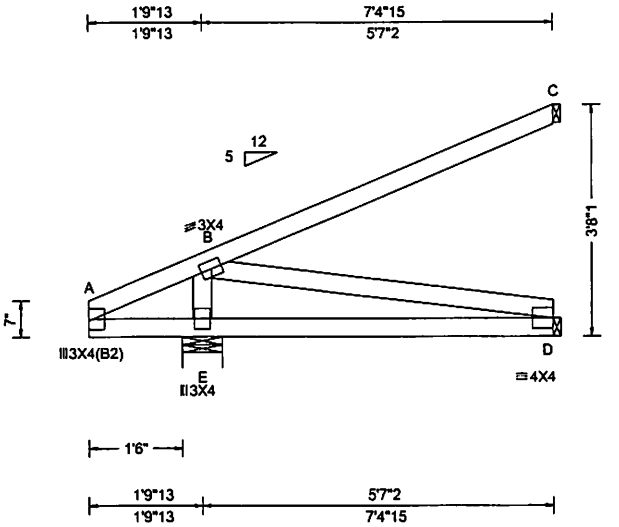
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75783 JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J03		Cust: R 9419 JRef:1XUR94190002 T33 DrwNo: 317.23.0706.19117 / FK 11/13/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 145 mph Enclosure: Closed Risk Category: II EXP: D Kzt: NA Mean Height: 22.79 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: 1.33	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/PT:10(0)/3(0)/1(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): -0.007 A 999 240 HORZ(LL): -0.004 C - - HORZ(TL): 0.005 C - - Creep Factor: 2.0 Max TC CSI: 0.414 Max BC CSI: 0.251 Max Web CSI: 0.099 VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	454	/-	/-	/355	/140	/209
C	164	/-	/-	/103	/156	/-
D	108	/-	/-	/63	/35	/-

Wind reactions based on MWFRS
E Brg Wid = 7.6 Min Req = 1.5 (Truss)
C Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

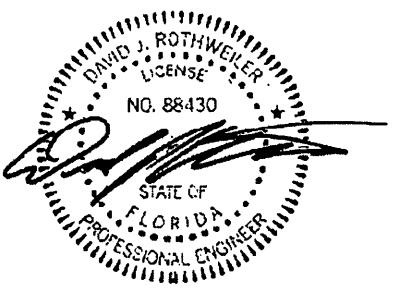
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



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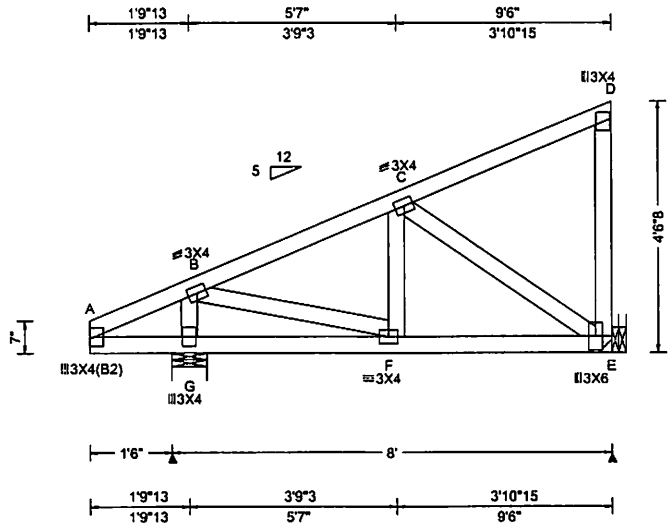
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75784 EJAC FROM:	Ply: 1 Qty: 11	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J04	Cust: R 9419 JRef: 1XUR94190002 T41 DrwNo: 317.23.0706.20617 / FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.23 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: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	C	999	360
VERT(CL): 0.007	C	999	240
HORZ(LL): -0.003	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.213
Max BC CSI: 0.164
Max Web CSI: 0.127

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	543	/-	/-	/412	/179	/272
E	344	/-	/-	/237	/258	/-

Wind reactions based on MWFRS
G Brg Wid = 7.6 Min Req = 1.5 (Truss)
E Brg Wid = - Min Req = -
Bearing G is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
G - B	212	-471

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Hangers / Ties

(J) Hanger Support Required, by others

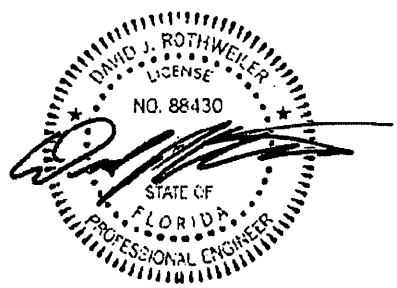
Wind

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

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

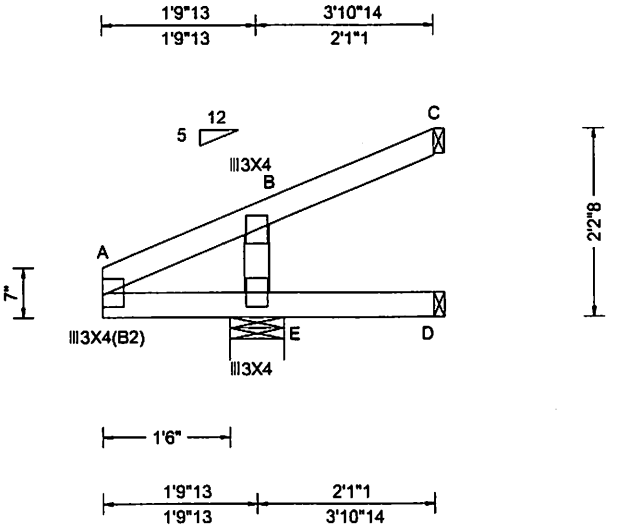


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75785 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J09	Cust: R 9419 JRef: 1XUR94190002 T18 DrwNo: 317.23.0706.21810 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.023 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.048 A 489 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.013 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.027 C - -
NCBCLL: 10.00	Mean Height: 22.06 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.168
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.155
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.033
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	363	/-	/-	/314	/93	/107
D	1	/-25	/-	/26	/34	/-
C	41	/-16	/-	/11	/65	/-

Wind reactions based on MWFRS
E Brg Wid = 7.6 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

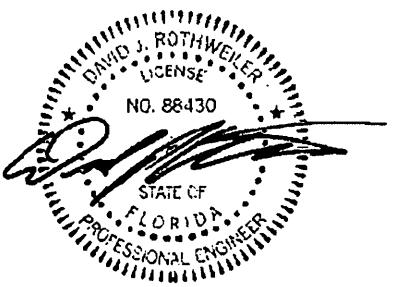
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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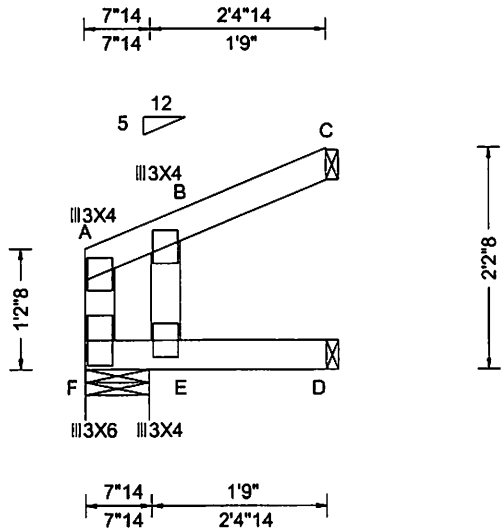
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Glenview, IL 60025

SEQN: 75786 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J10	Cust: R 9419 JRef: 1XUR94190002 T25 DrwNo: 317.23.0706.23070 / FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 22.38 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: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.023	E	999	360
VERT(CL): 0.052	E	559	240
HORZ(LL): 0.010	B	-	-
HORZ(TL): 0.022	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.636
Max BC CSI: 0.895
Max Web CSI: 0.582

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-		/ Rh	/ Rw	/ U / RL
F	1563	/-	/-	/-	/580 /-
D	238	/-	/293	/-	/80 /107
C	161	/-	/293	/-	/78 /107

Wind reactions based on MWFRS
F Brg Wid = 7.6 Min Req = 2.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	197	-524

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - F	206	-532	B - E	546	-153

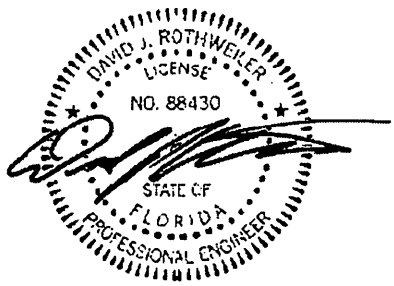
Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
Fasten rated sheathing to one face of this frame.

Special Loads
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 73 plf at 0.00 to 73 plf at 2.41
BC: From 20 plf at 0.00 to 20 plf at 2.41
BC: 1739 lb Conc. Load at 0.72

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

Additional Notes
The maximum horizontal reaction is 293#

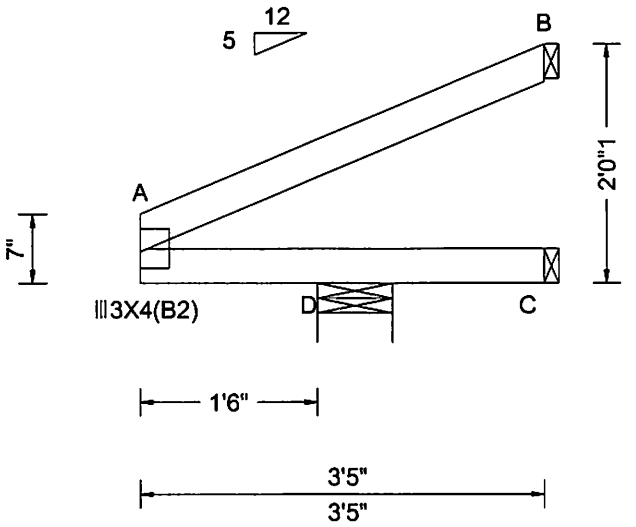


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North Building, 4th Floor
Glenview, IL 60025

SEQN: 75787 JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J11	Cust: R 9419 JRef: 1XUR94190002 T29 DrwNo: 317.23.0706.24403 / FK 11/13/2023



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 21.96 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: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.049	A	441	360
VERT(CL): 0.114	A	191	240
HORZ(LL): -0.026	B	-	-
HORZ(TL): 0.061	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.148
Max BC CSI: 0.363
Max Web CSI: 0.000

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	338	/-	/-	/298	/91	/93
C	-	/-126	/-	/47	/100	/-
B	104	/-	/-	/66	/107	/-

Wind reactions based on MWFRS
D Brg Wid = 7.6 Min Req = 1.5 (Truss)
C Brg Wid = 1.5 Min Req = -
B Brg Wid = 1.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

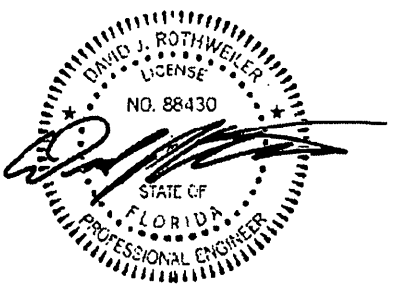
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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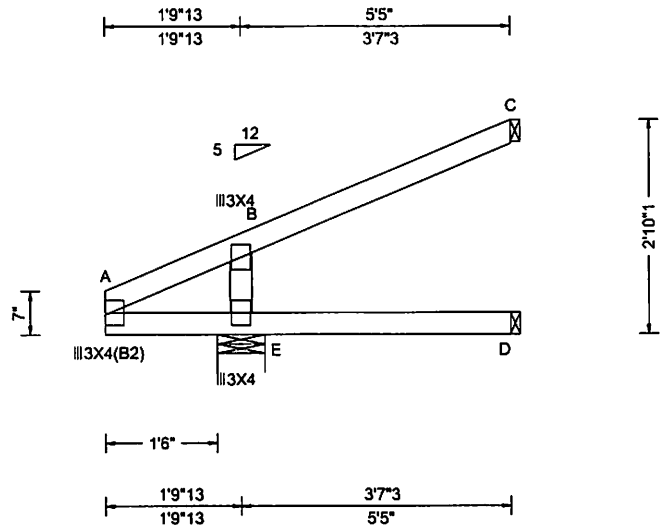
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Glenview, IL 60025

SEQN: 75788 JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J12	Cust: R 9419 JRef: 1XUR94190002 T27 DrwNo: 317.23.0706.25777 / FK 11/13/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 22.38 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: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.049	A	478	360
VERT(CL): 0.050	A	466	240
HORZ(LL): -0.029	C	-	-
HORZ(TL): 0.034	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.220
Max BC CSI: 0.195
Max Web CSI: 0.053

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	393	/-	/-	/322	/108	/151
C	103	/-	/-	/54	/117	/-
D	47	/-	/-	/25	/8	/-

Wind reactions based on MWFRS
E Brg Wid = 7.6 Min Req = 1.5 (Truss)
C Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

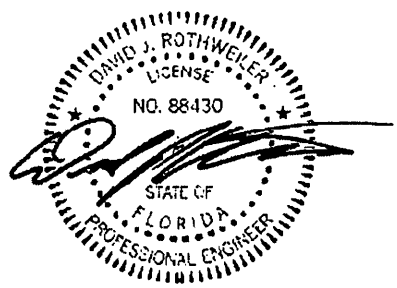
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

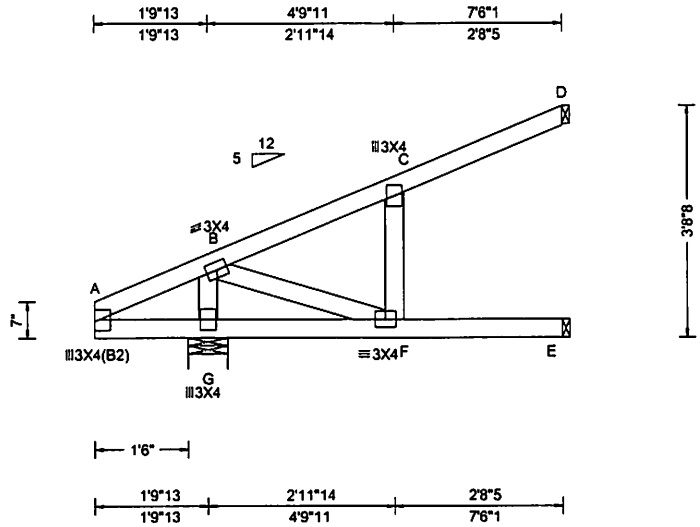


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SEQN: 75789 EJAC FROM:	Ply: 1 Qty: 15	**Job Number:** KTQ23455-BLDG-VILLA-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-R-REV Job Description:florida job-Roof Framing De **Truss Label:** J13	Cust: R 9419 JRef:1XUR94190002 T16 DrwNo: 317.23.0706.29400 / FK 11/13/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.082 C 832 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.121 C 565 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.063 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.090 C - -
NCBCLL: 10.00	Mean Height: 22.81 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.310
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.308
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.052
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	458	/-	/-	/358	/141	/212
E	101	/-	/-	/72	/61	/-
D	147	/-	/-	/94	/133	/-

Wind reactions based on MWFRS
G Brg Wid = 7.6 Min Req = 1.5 (Truss)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing G is a rigid surface.
Members not listed have forces less than 375#

Lumber

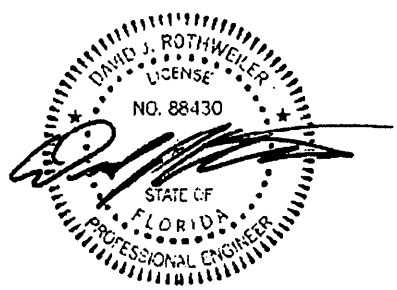
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/13/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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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.

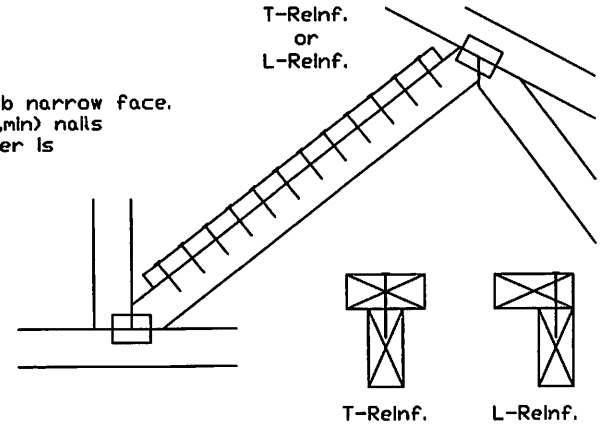
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

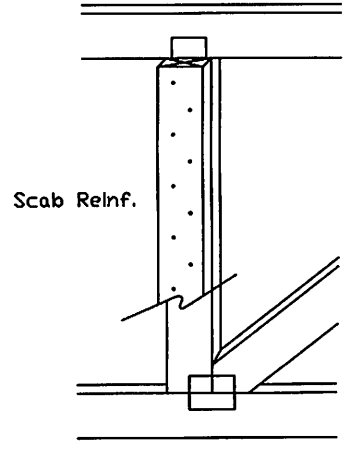
T-Reinforcement or L-Reinforcement:

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.



ALPINE
AN ITW COMPANY
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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

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

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

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

For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com) TPI: www.tpinst.org) SBCA: www.sbcacomponents.com) ICC: www.iccsafe.org

DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER
1/13/2023

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

FL REQ# 27871 David J. Rothweiler, FL PE# 88430