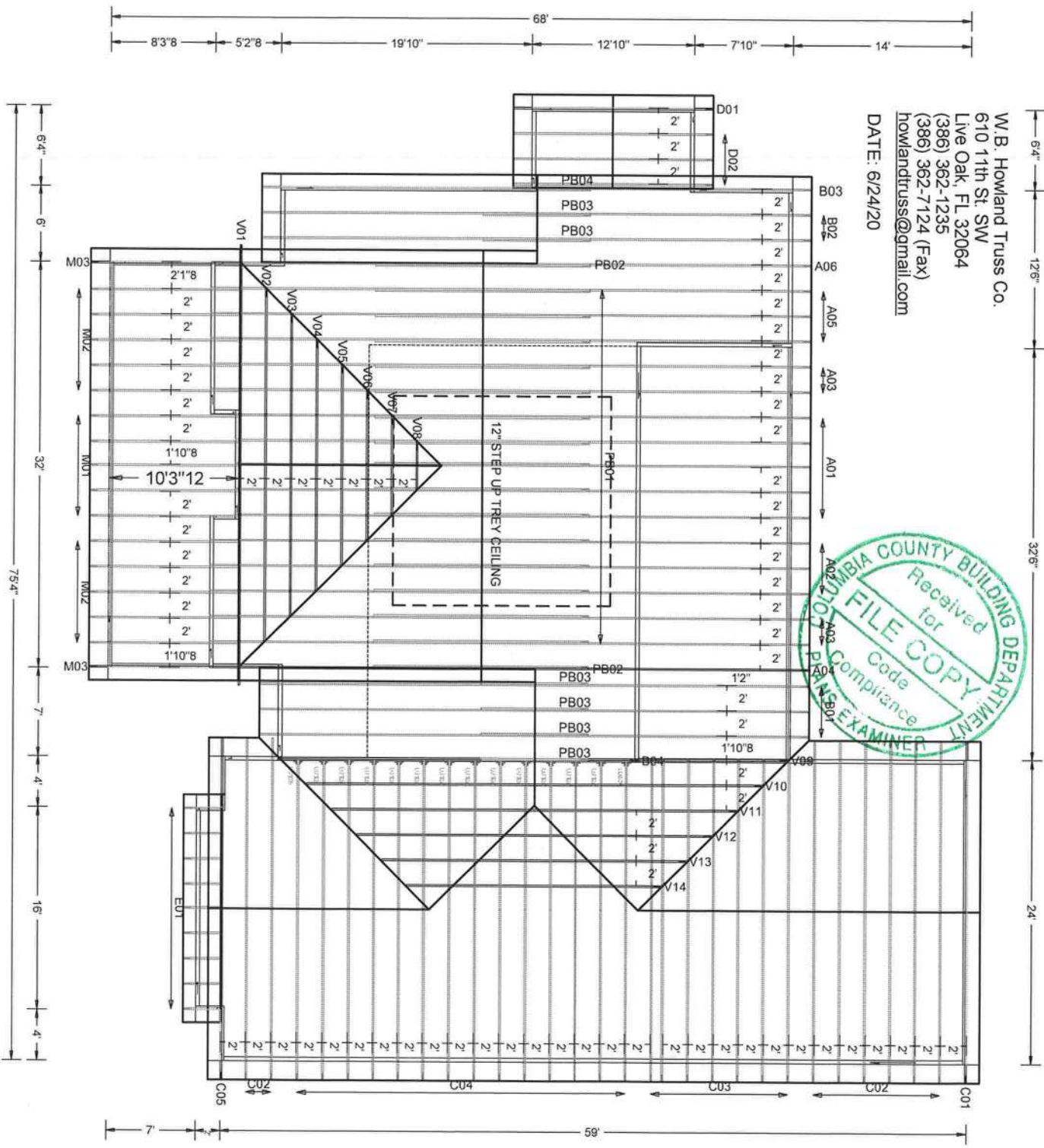
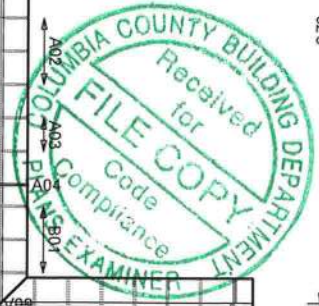
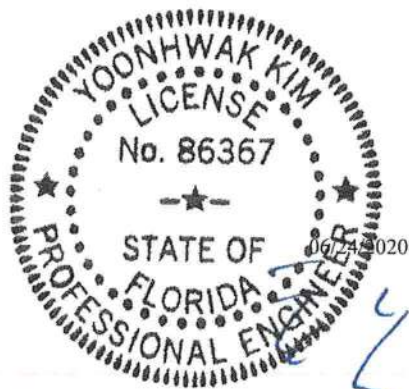


W.B. Howland Truss Co.
 610 11th St. SW
 Live Oak, FL 32064
 (386) 362-1235
 (386) 362-7124 (Fax)
 howlandtruss@gmail.com
 DATE: 6/24/20



PAGE NO: 1 OF 1	JOB NO: 20-4309	Job Name: Lane Customer: ZECHER CONSTRUCTION Designer: Bill Ecklund ADDRESS: SALESMAN: DB : <Not Found>	JOB #: 20-4309
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Alpine, an ITW Company
 6750 Forum Drive, Suite 305
 Orlando, FL 32821
 Phone: (800)755-6001
 www.alpineitw.com

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

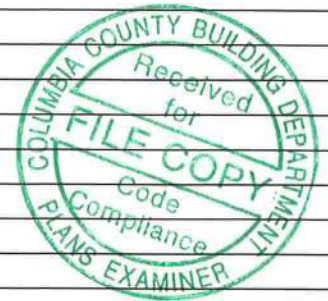
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 20-4309
Job Description: Lane	
Address:	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	IntelliVIEW Version: 19.02.02B JRef #: 1WWe2150001
Wind Standard: ASCE 7-10 Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00-10.00
Building Type: Closed	Floor Load (psf): None

This package contains general notes pages, 39 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss
1	176.20.1052.33610	A01
3	176.20.1052.40883	A03
5	176.20.1052.46653	A05
7	176.20.1052.50573	B01
9	176.20.1052.54620	B03
11	176.20.1053.14263	C01
13	176.20.1053.17497	C03
15	176.20.1053.22300	C05
17	176.20.1053.26583	D02
19	176.20.1053.32690	M01
21	176.20.1053.41210	M03
23	176.20.1053.45647	PB02
25	176.20.1053.48770	PB04
27	176.20.1053.53140	V02
29	176.20.1053.56770	V04
31	176.20.1053.59977	V06
33	176.20.1054.02447	V08
35	176.20.1054.05113	V10
37	176.20.1054.07567	V12
39	176.20.1054.11753	V14
41	A14030ENC101014	
43	CNNAILSP1014	
45	PB160101014	

Item	Drawing Number	Truss
2	176.20.1052.38483	A02
4	176.20.1052.43870	A04
6	176.20.1052.48613	A06
8	176.20.1052.52267	B02
10	176.20.1053.10903	B04
12	176.20.1053.16013	C02
14	176.20.1053.19120	C04
16	176.20.1053.24410	D01
18	176.20.1053.28433	E01
20	176.20.1053.35340	M02
22	176.20.1053.43800	PB01
24	176.20.1053.47250	PB03
26	176.20.1053.51007	V01
28	176.20.1053.55200	V03
30	176.20.1053.58430	V05
32	176.20.1054.01353	V07
34	176.20.1054.03727	V09
36	176.20.1054.06447	V11
38	176.20.1054.08840	V13
40	BRCLBSUB0119	
42	GBLLETIN0118	
44	A14015ENC101014	
46	VAL160101014	



General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

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

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

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

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

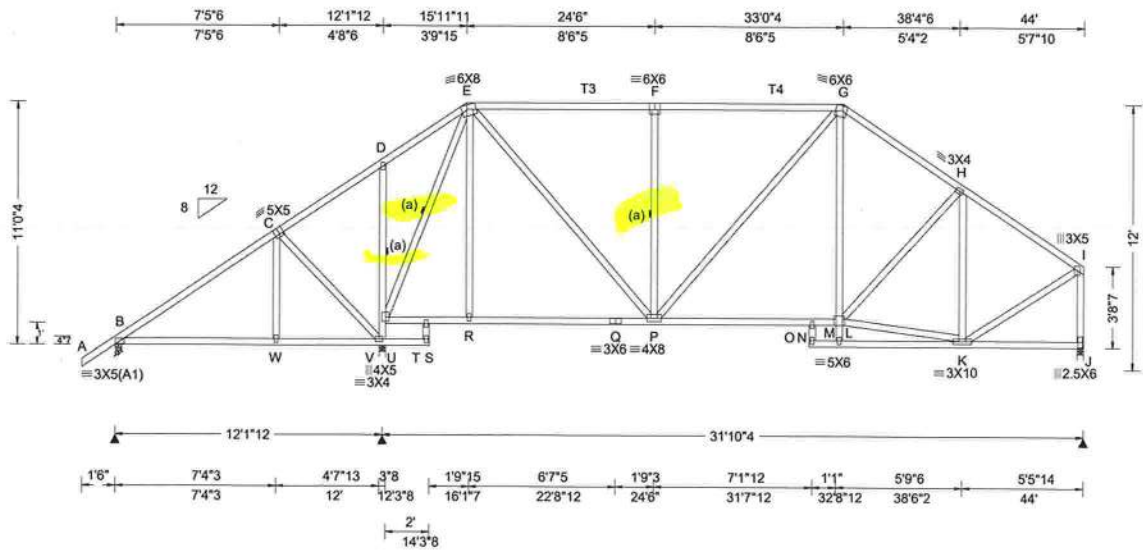
W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.com.



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.40 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.046 F 999 240 VERT(CL): 0.096 F 999 240 HORZ(LL): 0.019 J - - HORZ(TL): 0.040 J - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.503 Max Web CSI: 0.748 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>601</td> <td>-</td> <td>-</td> <td>/328</td> <td>/106</td> <td>/300</td> </tr> <tr> <td>V</td> <td>1863</td> <td>-</td> <td>-</td> <td>/1217</td> <td>/306</td> <td>-</td> </tr> <tr> <td>J</td> <td>1337</td> <td>-</td> <td>-</td> <td>/833</td> <td>/231</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 V Brg Width = 3.5 Min Req = 1.8 J Brg Width = 3.5 Min Req = 1.6 Bearings B, V, & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>135</td> <td>-497</td> <td>G - H</td> <td>446</td> <td>-1327</td> </tr> <tr> <td>E - F</td> <td>441</td> <td>-1096</td> <td>H - I</td> <td>321</td> <td>-1159</td> </tr> <tr> <td>F - G</td> <td>441</td> <td>-1096</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	601	-	-	/328	/106	/300	V	1863	-	-	/1217	/306	-	J	1337	-	-	/833	/231	-	Chords	Tens.	Comp.	Chords	Tens.	Comp.	B - C	135	-497	G - H	446	-1327	E - F	441	-1096	H - I	321	-1159	F - G	441	-1096			
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	R+	/R-	/Rh	/Rw	/U	/RL																																																								
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Lumber
 Top chord: 2x4 SP #2; T3, T4 2x4 SP M-31;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

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

Plating Notes
 All plates are 2X4 except as noted.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.

Additional Notes
 The overall height of this truss excluding overhang is 11'-0".
 Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (if no rigid diaphragm exists at that point).



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
U - T	496	-66	Q - P	490	-58
T - R	488	-58	P - N	1030	-173
R - Q	490	-58	N - L	1016	-165

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - V	167	-498	L - K	894	-188
V - U	309	-1440	H - K	172	-595
U - E	206	-1334	K - I	1036	-222
E - P	918	-219	I - J	338	-1292
F - P	229	-599			

FL REG# 278, Yoonhwak Kim, FL PE #86367
 06/24/2020

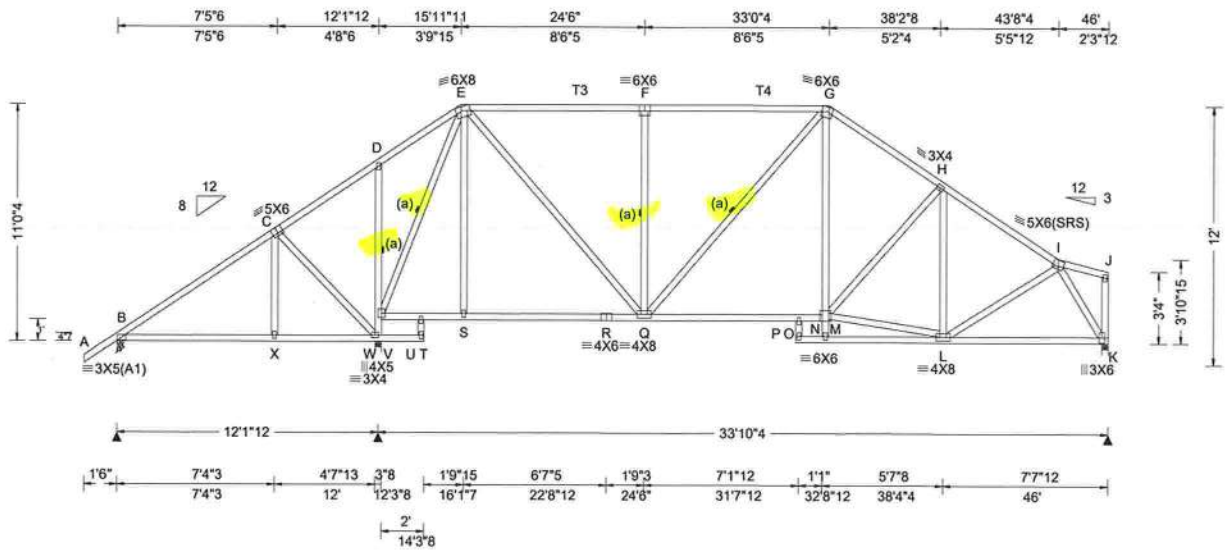
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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

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





Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.60 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.055 M 999 240 VERT(CL): 0.113 M 999 240 HORZ(LL): 0.027 K - - HORZ(TL): 0.056 K - - Creep Factor: 2.0 Max TC CSI: 0.619 Max BC CSI: 0.554 Max Web CSI: 0.780 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 593 -/- /- /323 /111 /296 W 1920 -/- /- /1262 /315 -/ K 1390 -/- /- /859 /247 -/ Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 W Brg Width = 3.5 Min Req = 1.9 K Brg Width = 3.5 Min Req = 1.6 Bearings B, W, & 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 147 -484 G - H 514 -1501 E - F 478 -1158 H - I 440 -1512 F - G 478 -1158
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Lumber
Top chord: 2x4 SP #2; T3,T4 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

Plating Notes
All plates are 2X4 except as noted.

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

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

The overall height of this truss excluding overhang is 11'-0-4".

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



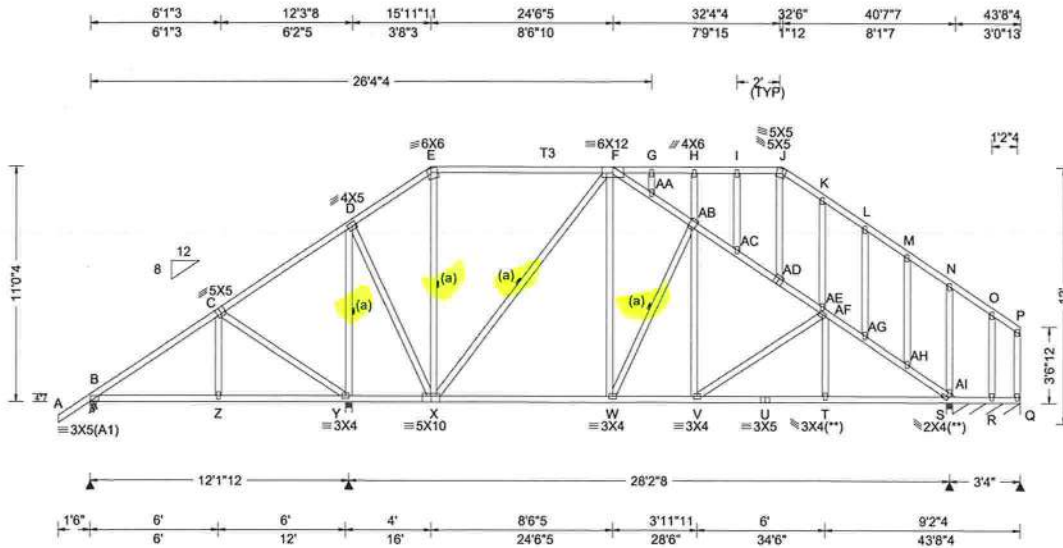
FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
V - U 511 -67 Q - O 1182 -208
U - S 498 -57 O - M 1153 -195
S - R 500 -56 L - K 837 -241
R - Q 500 -56

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
C - W 167 -498 M - G 411 -98
W - V 323 -1496 M - L 1174 -253
V - E 217 -1392 L - I 420 -157
E - Q 998 -247 I - K 447 -1535
F - Q 230 -565

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**
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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0"

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.37 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA
Building Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s): WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): 0.085 J 999 240
VERT(CL): 0.176 J 999 240
HORZ(LL): 0.072 P - -
HORZ(TL): 0.151 P - -
Creep Factor: 2.0
Max TC CSI: 0.731
Max BC CSI: 0.472
Max Web CSI: 0.617
VIEW Ver: 19.02.02B.0122.15

▲ Maximum Reactions (lbs), or * = PLF						
Gravity			Non-Gravity			
Loc	R+	/R-	/Rh	/Rw	/U	/RL
B	471	-	-	/284	/80	/301
Y	1891	-	-	/1209	/315	-
S	1307	-	-	/792	/213	-
Q*	33	-	-	/24	/8	-
Wind reactions based on MWFRS						
B	Brg Width = 3.5		Min Req = 1.5			
Y	Brg Width = 3.5		Min Req = 1.9			
S	Brg Width = 3.5		Min Req = 1.5			
Q	Brg Width = 38.3		Min Req = -			
Bearings B, Y, S, & S are a rigid surface.						
Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SP #2; T3 2x4 SP M-31;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.
 (**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind

Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
 Bearing 3 located at 40.2' (blocking >= 22.79" if used)

Additional Notes

The overall height of this truss excluding overhang is 11-0-4.



Maximum Top Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.			
D - E	294	-	-	380

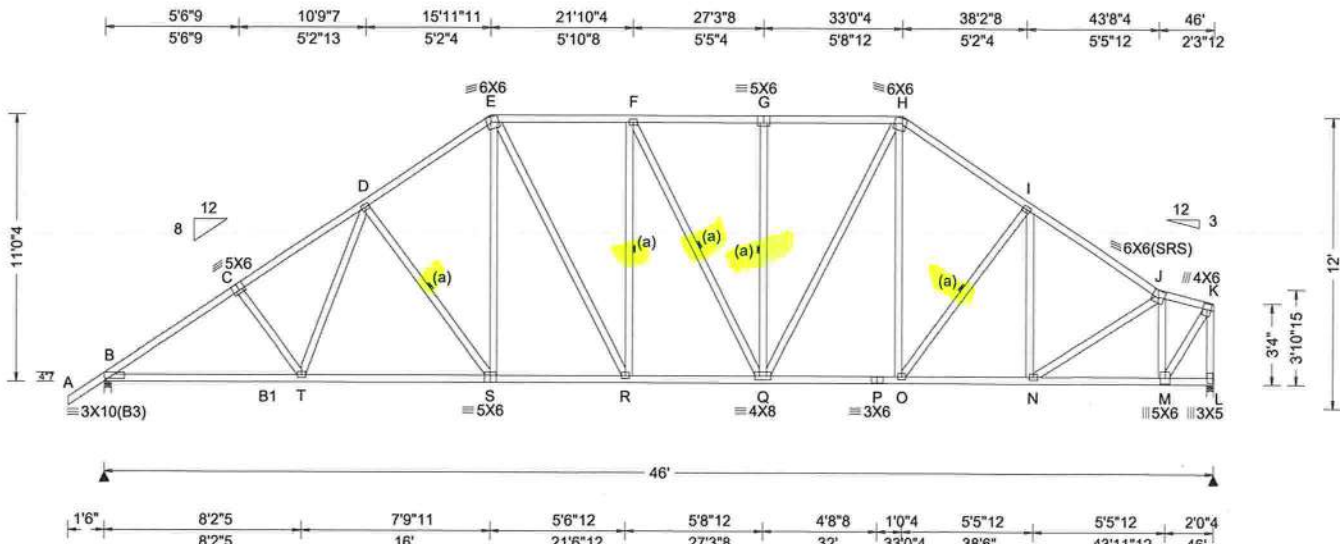
Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
X - W	699	-135	U - T	1306 -249
W - V	936	-176	T - S	1308 -248
V - U	1306	-249		

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
C - Y	233	-497	V - AF	88 -439
Y - D	440	-1520	AC - AD	246 -1148
D - X	1044	-209	AD - AE	214 -1182
X - F	204	-676	AE - AF	268 -1308
W - F	672	-67	AF - AG	287 -1536
W - AB	99	-585	AG - AH	313 -1574
F - AA	176	-875	AH - AI	326 -1624
AA - AB	181	-881	AI - S	451 -1590
AB - AC	225	-1116		

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Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0"

Wind Criteria

Wind Std: ASCE 7-10
 Speed: 130 mph
 Enclosure: Closed
 Risk Category: II
 EXP: C Kzt: NA
 Mean Height: 17.13 ft
 TCCL: 5.0 psf
 BCDL: 5.0 psf
 MWFRS Parallel Dist: h/2 to h
 C&C Dist a: 4.60 ft
 Loc. from endwall: not in 6.50 ft
 GCpi: 0.18
 Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

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

Building Code:
 FBC 2017 RES
 TPI Std: 2014
 Rep Fac: Yes
 FT/RT:20(0)/10(0)
 Plate Type(s):
 WAVE

Defl/CSI Criteria

PP Deflection in loc L/defl L/#
 VERT(LL): 0.184 F 999 240
 VERT(CL): 0.338 F 999 240
 HORZ(LL): 0.080 L - -
 HORZ(TL): 0.146 L - -
 Creep Factor: 2.0
 Max TC CSI: 0.606
 Max BC CSI: 0.907
 Max Web CSI: 0.852

VIEW Ver: 19.02.02B.0122.15

Maximum Reactions (lbs)

Loc	Gravity			Non-Gravity		
	R+	/R-	/Rh	/Rw	/U	/RL
B	2308	-	-	11294	1313	1443
L	2224	-	-	11105	1288	-

Wind reactions based on MWFRS
 B Brg Width = 3.5 Min Req = 1.9
 L Brg Width = 3.5 Min Req = 2.6
 Bearings B & L are a rigid surface.
 Members not listed have forces less than 375#
Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	464 -3506	G - H	513 -2425
C - D	494 -3314	H - I	420 -2548
D - E	457 -2809	I - J	363 -2569
E - F	525 -2487	J - K	179 -1288
F - G	515 -2424		

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

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

Plating Notes
 All plates are 3X4 except as noted.

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.

Additional Notes
 WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
 The overall height of this truss excluding overhang is 11'-0".



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Maximum Bot Chord Forces Per Ply (lbs)

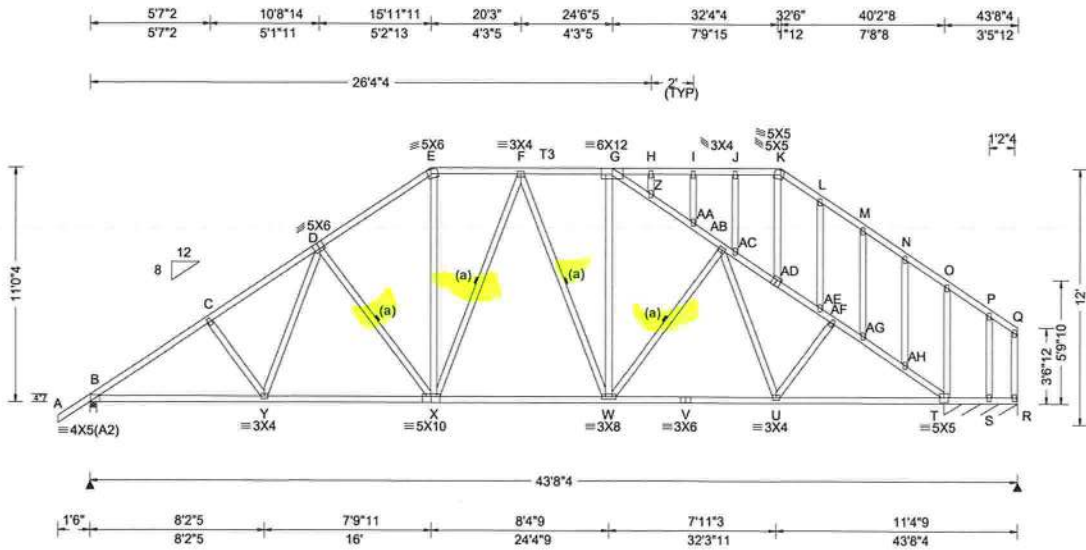
Chords	Tens.Comp.	Chords	Tens. Comp.
B - T	2825 -413	Q - P	2038 -158
T - S	2564 -304	P - O	2038 -158
S - R	2256 -190	O - N	2076 -224
R - Q	2493 -207	N - M	1389 -186

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
T - D	420 -89	N - J	826 -50
D - S	203 -521	J - M	264 -1807
E - S	709 -144	M - K	2237 -296
E - R	500 -121	K - L	303 -2204
Q - H	819 -85		

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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.13 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.37 ft Loc. from endwall: not in 6.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.133 H 999 240 VERT(CL): 0.278 H 999 240 HORZ(LL): 0.103 Q - - HORZ(TL): 0.215 Q - - Creep Factor: 2.0 Max TC CSI: 0.458 Max BC CSI: 0.860 Max Web CSI: 0.293 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs), or *=-PLF <table border="1"> <thead> <tr> <th colspan="2">Gravity</th> <th colspan="5">Non-Gravity</th> </tr> <tr> <th>Loc</th> <th>R+ / R-</th> <th>/ Rh</th> <th>/ Rw</th> <th>/ U</th> <th>/ RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1797</td> <td>-</td> <td>-</td> <td>1196</td> <td>1217</td> <td>1367</td> </tr> <tr> <td>R*</td> <td>568</td> <td>-</td> <td>-</td> <td>1353</td> <td>17</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 2.1 R Brg Width = 41.8 Min Req = - Bearings B & T are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>295 -2614</td> <td>E - F</td> <td>339 -1518</td> </tr> <tr> <td>C - D</td> <td>325 -2421</td> <td>F - G</td> <td>345 -1503</td> </tr> <tr> <td>D - E</td> <td>282 -1912</td> <td></td> <td></td> </tr> </tbody> </table> </p>	Gravity		Non-Gravity					Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	B	1797	-	-	1196	1217	1367	R*	568	-	-	1353	17	-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	295 -2614	E - F	339 -1518	C - D	325 -2421	F - G	345 -1503	D - E	282 -1912		
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Lumber
 Top chord: 2x4 SP #2; T3 2x4 SP M-31;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

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

Plating Notes
 All plates are 2X4 except as noted.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.

Additional Notes
 The overall height of this truss excluding overhang is 11'-0".



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Y	2089 -521	W - V	1818 -220
Y - X	1820 -411	V - U	1818 -220
X - W	1563 -256	U - T	2012 -159

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Y - D	422 -93	AB-AC	204 -2157
D - X	203 -519	AC-AD	227 -2296
E - X	699 -71	AD-AE	227 -2320
W - G	768 -121	AE-AF	207 -2390
W - AB	16 -556	AF-AH	205 -2396
G - Z	255 -1824	AG-AH	190 -2451
Z - AA	255 -1820	AH - T	193 -2547
AA-AB	267 -1887		

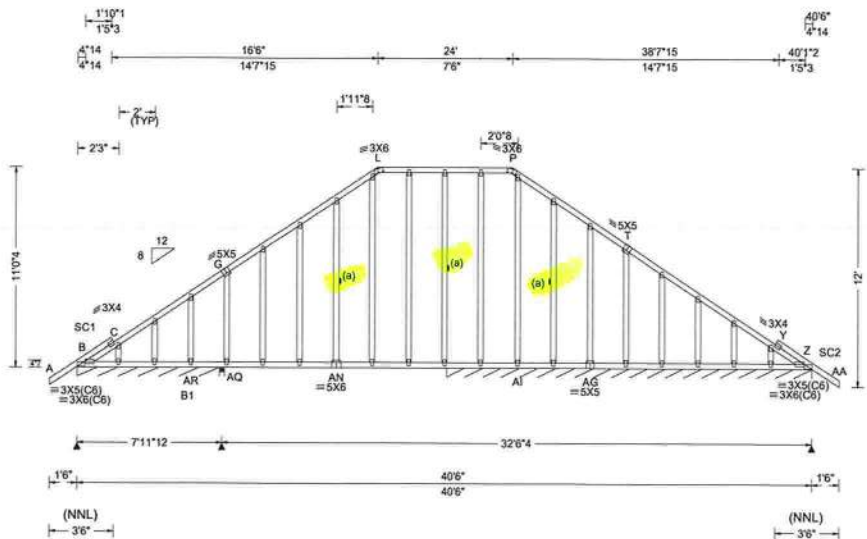
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Loading Criteria (psf) TCCL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.72 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.05 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.177 AN 840 240 VERT(CL): 0.366 AN 406 240 HORZ(LL): 0.106 I - - HORZ(TL): 0.220 I - - Creep Factor: 2.0 Max TC CSI: 0.582 Max BC CSI: 0.637 Max Web CSI: 0.198 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs), or *=-PLF <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B*</td> <td>96</td> <td>-</td> <td>-</td> <td>/63</td> <td>-</td> <td>/19</td> </tr> <tr> <td>AQ</td> <td>879</td> <td>-</td> <td>-</td> <td>/544</td> <td>-</td> <td>-</td> </tr> <tr> <td>Z*</td> <td>98</td> <td>-</td> <td>-</td> <td>/61</td> <td>-</td> <td>-</td> </tr> <tr> <td>AR</td> <td colspan="6">/-367</td> </tr> <tr> <td>AI</td> <td colspan="6">/-210</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 94.0 Min Req = - AQ Brg Width = 3.5 Min Req = 1.5 Z Brg Width = 241 Min Req = - Bearings B, AQ, & AK are a rigid surface. Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B*	96	-	-	/63	-	/19	AQ	879	-	-	/544	-	-	Z*	98	-	-	/61	-	-	AR	/-367						AI	/-210					
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AI	/-210																																																			

Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
 Webs: 2x4 SP #3;
 Stack Chord: SC1 2x4 SP #2;
 Stack Chord: SC2 2x4 SP #2;

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

Plating Notes
 All plates are 2X4 except as noted.

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

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

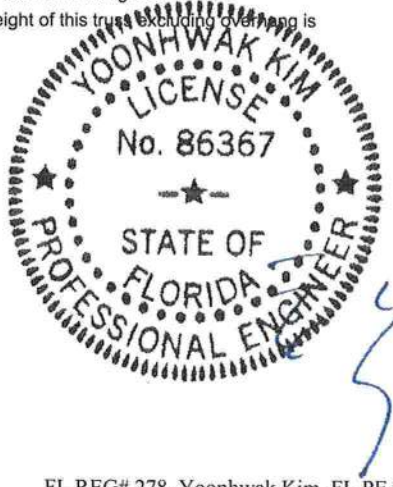
Additional Notes
 See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.
 Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.
 The overall height of this truss excluding overhang is 11-0.4.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	61 -602	P - T	24 -853
C - G	0 -851	T - Y	23 -851
G - L	0 -910	Y - Z	61 -649
L - P	15 -669		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - AN	1349 -12	AG - Z	690 -7
AN - AG	1337 -14		

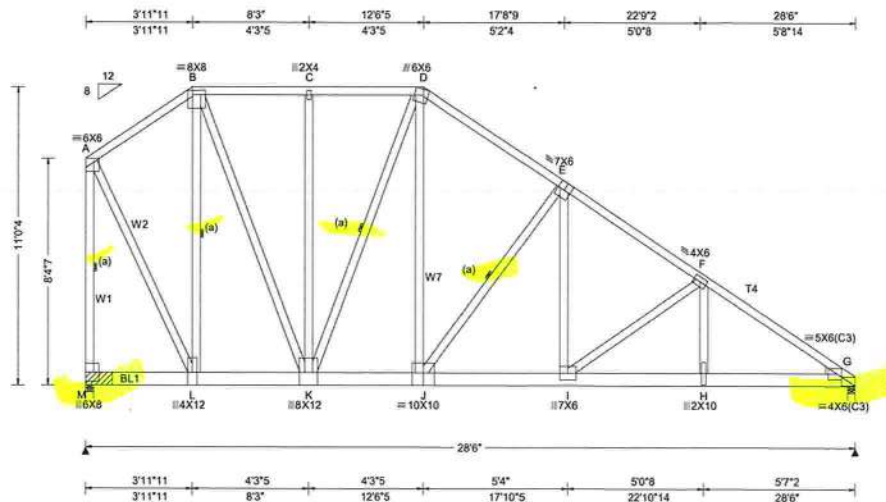


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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.175 999 240 VERT(CL): 0.346 982 240 HORZ(LL): 0.035 B - - HORZ(TL): 0.070 B - - Creep Factor: 2.0 Max TC CSI: 0.444 Max BC CSI: 0.592 Max Web CSI: 0.992 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL M 8650 /- /- /714 /1385 /295 G 8409 /- /- /759 /1352 /- Wind reactions based on MWFRS M Brg Width = 3.5 Min Req = - G Brg Width = 3.5 Min Req = 3.5 Bearings M & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 288 -1758 D - E 574 -3516 B - C 386 -2408 E - F 811 -4999 C - D 386 -2408 F - G 1032 -6383

Lumber
Top chord: 2x4 SP #2; T4 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W1,W2,W7 2x4 SP #2;
Rt Wedge: 2x4 SP #3;

Bearing Block(s)
Brg blocks: 0.128"x3", min. nails
brg x-loc #blocks length/blk #nails/blk wall plate
1 0.000' 1 12" 4 Rigid Surface
Brg block to be same size and species as chord.
Refer to drawing C>NNAILSP1014 for more information.

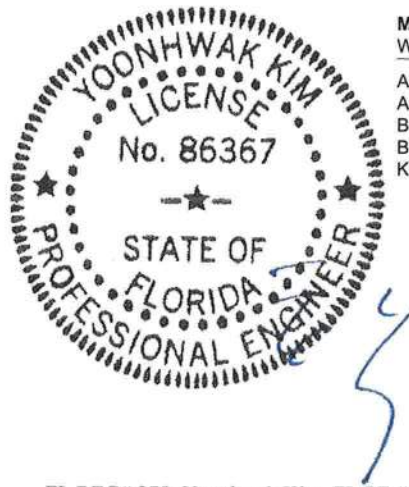
Bracing
(a) Continuous lateral restraint equally spaced on member.

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

Special Loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 64 plf at 0.00 to 64 plf at 28.50
BC: From 10 plf at 0.00 to 10 plf at 28.50
BC: 1068 lb Conc. Load at 0.94, 2.94, 4.94, 6.94
8.94, 10.94, 12.94, 14.94, 16.94, 18.94, 20.94, 22.94
24.94, 26.94

Wind
Wind loads based on MWFRS.
Left end vertical not exposed to wind pressure.

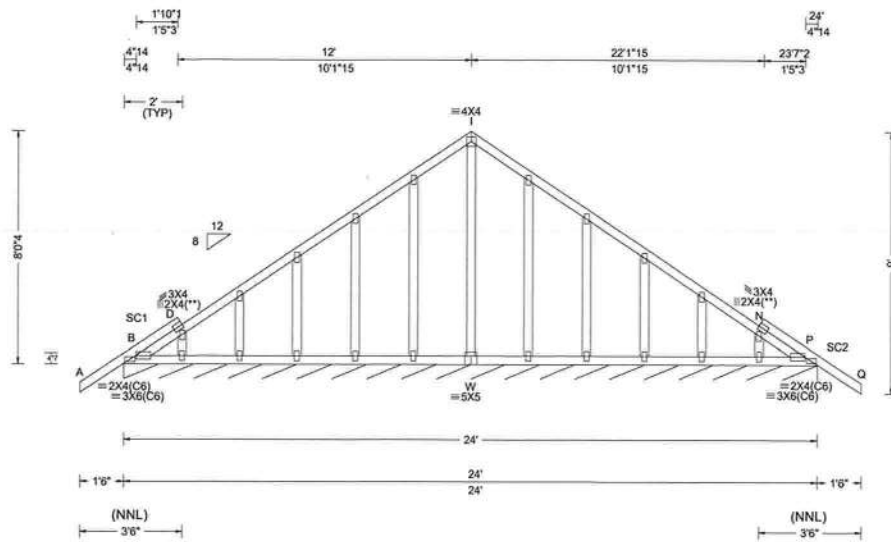
Additional Notes
The overall height of this truss excluding overhang is 11-0-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 AB 999 240 VERT(CL): 0.003 AB 999 240 HORZ(LL): -0.002 H - - HORZ(TL): 0.003 H - - Creep Factor: 2.0 Max TC CSI: 0.204 Max BC CSI: 0.100 Max Web CSI: 0.180 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL P* 93 / - / - / 50 / 15 / 11 Wind reactions based on MWFRS P Brg Width = 288 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

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

Plating Notes
 All plates are 2X4 except as noted.
 (**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

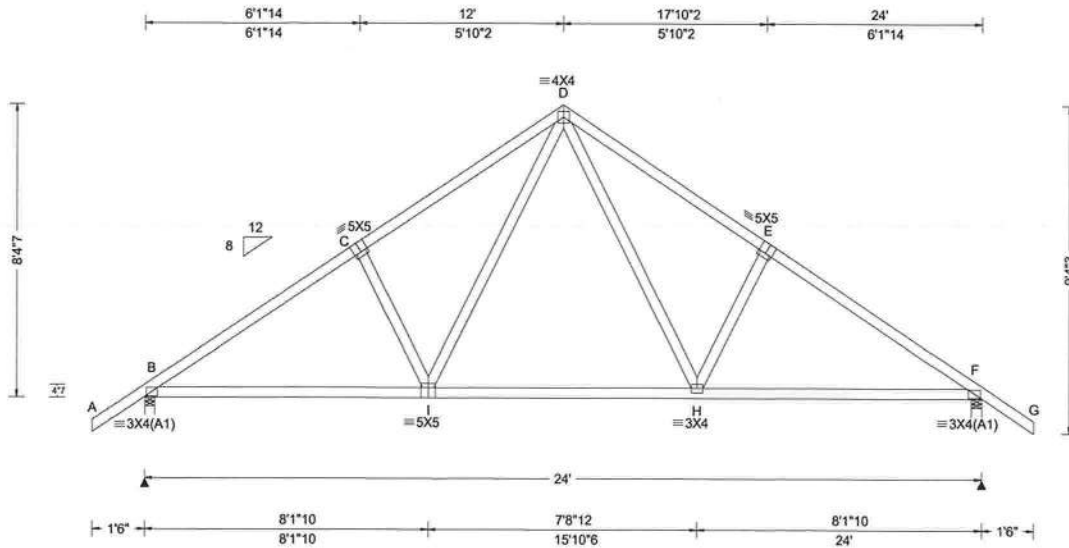
Additional Notes
 See DWGS A14015ENC101014 & GBULLETIN0118 for gable wind bracing and other requirements.
 Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.
 The overall height of this truss excluding overhang is 8-0-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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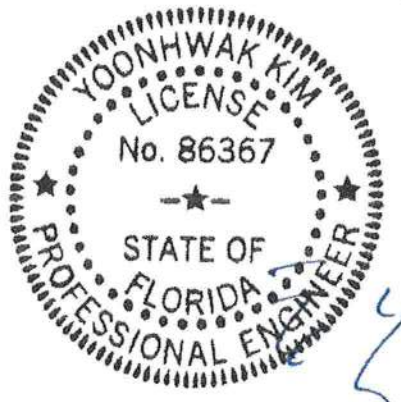
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.050 H 999 240 VERT(CL): 0.096 H 999 240 HORZ(LL): 0.021 H - - HORZ(TL): 0.041 H - - Creep Factor: 2.0 Max TC CSI: 0.439 Max BC CSI: 0.730 Max Web CSI: 0.290 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1190 /- /- /684 /183 /275 F 1190 /- /- /684 /183 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 383 -1565 D - E 451 -1404 C - D 451 -1401 E - F 383 -1567 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - I 1216 -181 H - F 1218 -189 I - H 825 -39 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. I - D 588 -188 D - H 592 -188
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

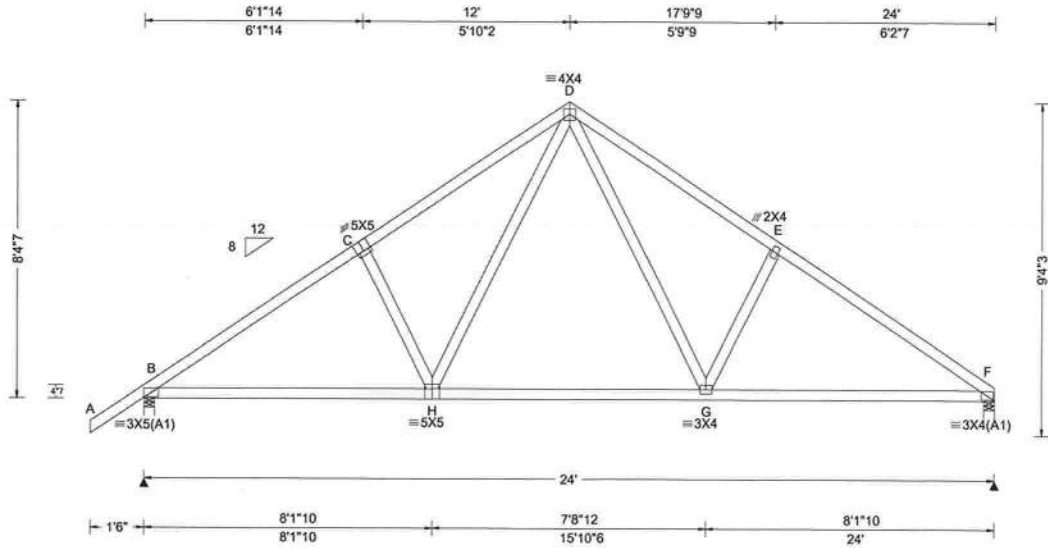
Additional Notes
The overall height of this truss excluding overhang is 8-4-7.



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Loading Criteria (psf) TCCL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.049 H 999 240 VERT(CL): 0.095 H 999 240 HORZ(LL): 0.021 G - - HORZ(TL): 0.042 G - - Creep Factor: 2.0 Max TC CSI: 0.488 Max BC CSI: 0.759 Max Web CSI: 0.234 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL
				B 1194 /- /- /684 /184 /256 F 1083 /- /- /592 /156 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

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

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

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

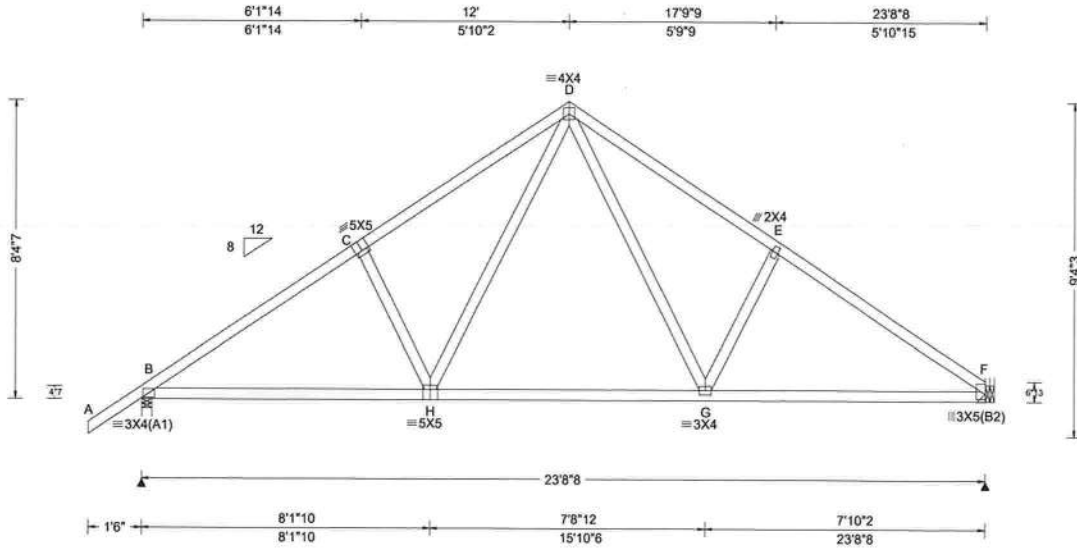
Additional Notes
 The overall height of this truss excluding overhang is 8-4-7.



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Loading Criteria (psf) TCCL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.055 G 999 240 VERT(CL): 0.106 G 999 240 HORZ(LL): 0.027 G - - HORZ(TL): 0.052 G - - Creep Factor: 2.0 Max TC CSI: 0.438 Max BC CSI: 0.722 Max Web CSI: 0.225 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1185 /- /- /680 /183 /252 F 1068 /- /- /581 /154 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 284 - 1557 D - E 359 - 1379 C - D 346 - 1393 E - F 298 - 1543 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - H 1210 - 166 G - F 1194 - 167 H - G 816 - 32 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. H - D 591 - 139 D - G 566 - 140
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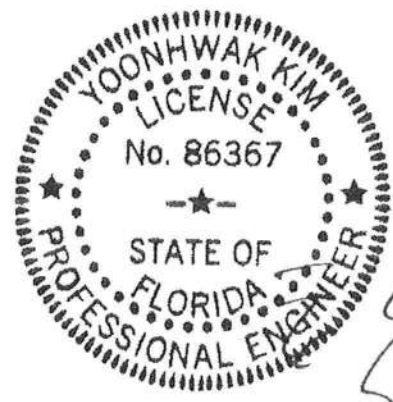
Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

Hangers / Ties
 Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.
 Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.
 Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.
 Bearing at location x=23'5"8 uses the following support conditions: 23'5"8
 Bearing F (23'5"8, 9'1"2) LUS26
 Supporting Member: (2)2x6 SP 2400f-2.0E
 (4) 0.148"x3" nails into supporting member,
 (4) 0.148"x3" nails into supported member.

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

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

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



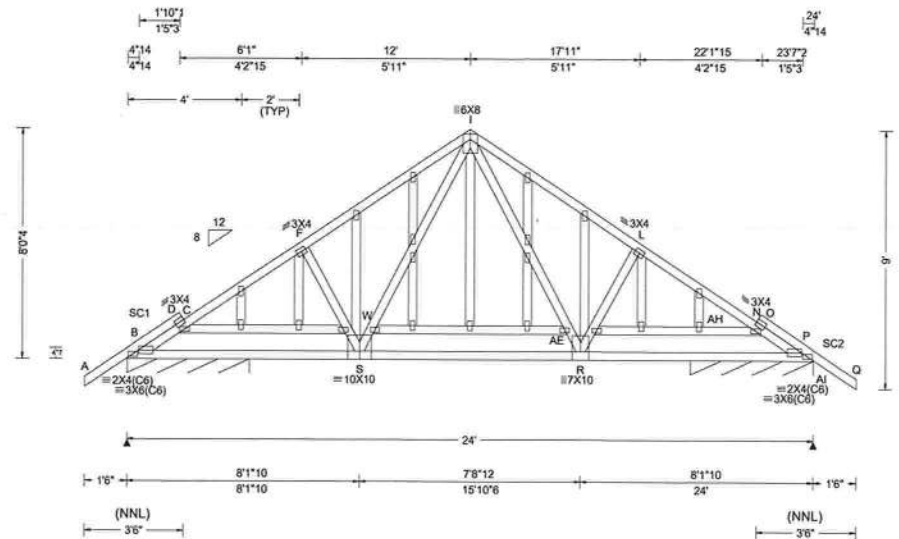
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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TC DL: 5.0 psf BC DL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.054 M 884 240 VERT(CL): 0.110 E 437 240 HORZ(LL): 0.027 E - - HORZ(TL): 0.054 E - - Creep Factor: 2.0 Max TC CSI: 0.303 Max BC CSI: 0.534 Max Web CSI: 0.458 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs), or * = PLF <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B*</td> <td>252</td> <td>-</td> <td>-</td> <td>-</td> <td>153</td> <td>-</td> </tr> <tr> <td>AI*</td> <td>252</td> <td>-</td> <td>-</td> <td>-</td> <td>153</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 51.5 Min Req = - AI Brg Width = 51.5 Min Req = - Bearings B & AH are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Chords</th> <th colspan="2">Tens.Comp.</th> <th rowspan="2">Chords</th> <th colspan="2">Tens. Comp.</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>414</td> <td>-1301</td> <td>I - L</td> <td>239</td> <td>-1058</td> </tr> <tr> <td>C - D</td> <td>376</td> <td>-1183</td> <td>L - N</td> <td>274</td> <td>-1140</td> </tr> <tr> <td>D - F</td> <td>274</td> <td>-1136</td> <td>N - O</td> <td>377</td> <td>-1186</td> </tr> <tr> <td>F - I</td> <td>239</td> <td>-1056</td> <td>O - P</td> <td>414</td> <td>-1302</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B*	252	-	-	-	153	-	AI*	252	-	-	-	153	-	Chords	Tens.Comp.		Chords	Tens. Comp.						B - C	414	-1301	I - L	239	-1058	C - D	376	-1183	L - N	274	-1140	D - F	274	-1136	N - O	377	-1186	F - I	239	-1056	O - P	414	-1302
Loc	Gravity			Non-Gravity																																																													
	R+	/R-	/Rh	/Rw	/U	/RL																																																											
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D - F	274	-1136	N - O	377	-1186																																																												
F - I	239	-1056	O - P	414	-1302																																																												

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

Special Loads
 -----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 64 plf at -1.50 to 64 plf at 4.06
 TC: From 32 plf at 4.06 to 32 plf at 19.94
 BC: From 5 plf at -1.50 to 5 plf at 0.00
 BC: From 20 plf at 0.00 to 20 plf at 4.06
 BC: From 10 plf at 4.06 to 10 plf at 19.94
 BC: From 20 plf at 19.94 to 20 plf at 24.00
 BC: From 5 plf at 24.00 to 5 plf at 25.50
 TC: 36 lb Conc. Load at 4.06, 6.06, 8.06, 10.06
 12.06, 13.94, 15.94, 17.94, 19.94
 BC: 31 lb Conc. Load at 4.06, 6.06, 8.06, 10.06
 12.06, 13.94, 15.94, 17.94, 19.94

Additional Notes
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The overall height of this truss excluding overhang is 8'-0.4".



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
B - S	2088	-510	R - AH	2092	-510
S - R	632	-153			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.	
S - W	447	-70	I - AE	493	-88
W - I	489	-88	AE - R	451	-69

Plating Notes
 All plates are 2X4 except as noted.

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

Wind
 Wind loads and reactions based on MWFRS.

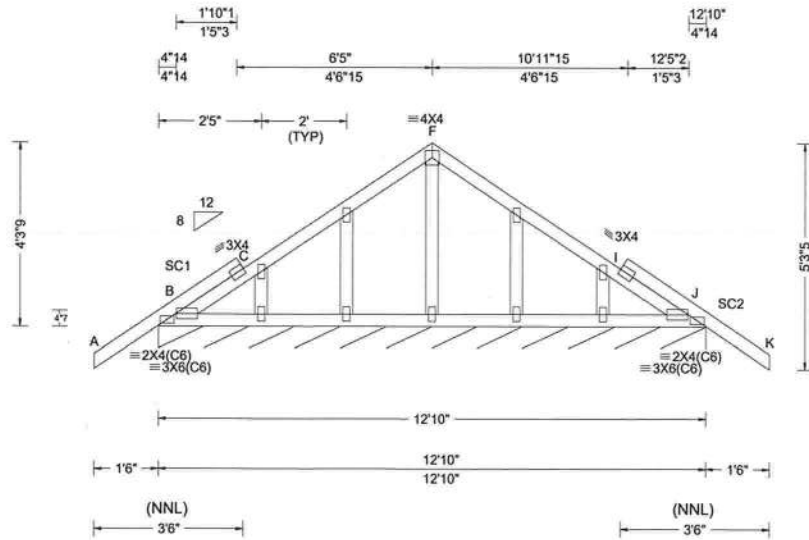
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 L 999 240 VERT(CL): 0.003 L 999 240 HORZ(LL): -0.001 P - - HORZ(TL): 0.001 P - - Creep Factor: 2.0 Max TC CSI: 0.204 Max BC CSI: 0.099 Max Web CSI: 0.045 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ /R- /Rh /Rw /U /RL Non-Gravity J* 100 /- /- /53 /16 /13 Wind reactions based on MWFRS J Brg Width = 153 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

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

Plating Notes
All plates are 2X4 except as noted.

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

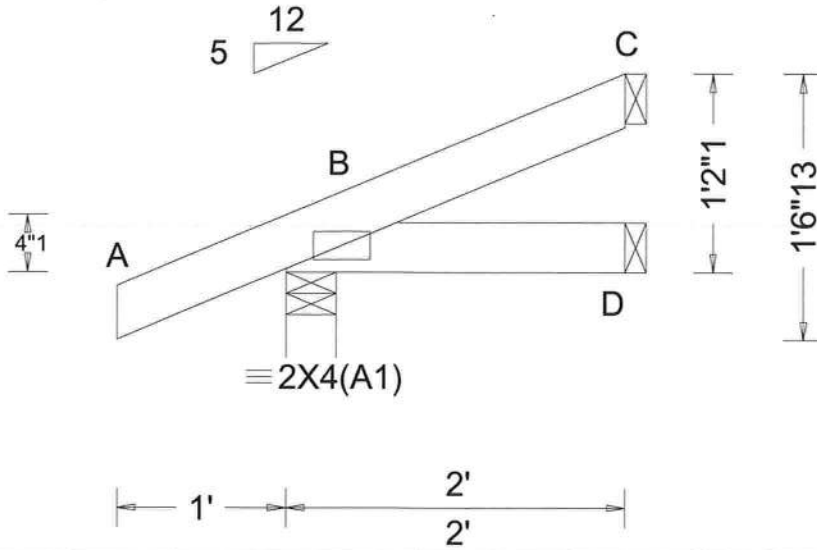
Additional Notes
See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.
The overall height of this truss excluding overhang is 4'-3-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf) TCLL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.000 D - - HORZ(TL): 0.000 D - - Creep Factor: 2.0 Max TC CSI: 0.134 Max BC CSI: 0.029 Max Web CSI: 0.000 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL																						
				<table border="1"> <tr> <td>B</td> <td>177</td> <td>-</td> <td>-</td> <td>/123</td> <td>/33</td> <td>/35</td> </tr> <tr> <td>D</td> <td>31</td> <td>-</td> <td>-</td> <td>/24</td> <td>/1</td> <td>-</td> </tr> <tr> <td>C</td> <td>36</td> <td>-</td> <td>-</td> <td>/14</td> <td>/13</td> <td>-</td> </tr> </table> <p>Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#</p>						B	177	-	-	/123	/33	/35	D	31	-	-	/24	/1	-	C	36	-
B	177	-	-	/123	/33	/35																				
D	31	-	-	/24	/1	-																				
C	36	-	-	/14	/13	-																				

Lumber

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

Wind

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

Additional Notes

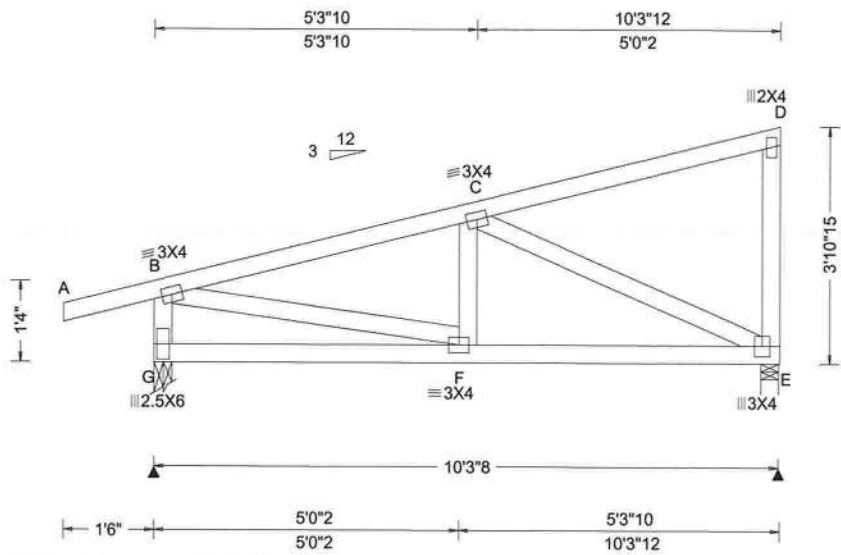
The overall height of this truss excluding overhang is 1-2-1.



FL REG# 278, Yoonhwak Kim, FL PE #86367
 06/24/2020

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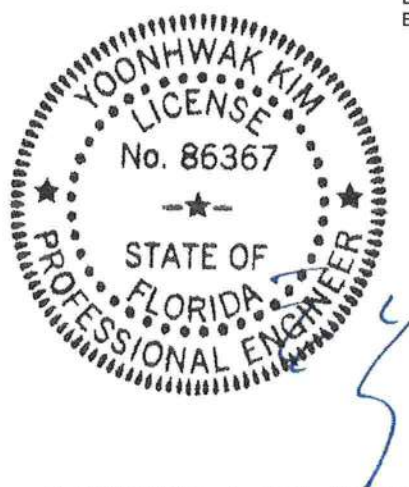


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.011 F 999 240 VERT(CL): 0.023 F 999 240 HORZ(LL): -0.003 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.410 Max BC CSI: 0.378 Max Web CSI: 0.334 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL G 520 /- /- /282 /96 /84 E 409 /- /- /209 /93 /- Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 E Brg Width = 3.5 Min Req = 1.5 Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 111 -578

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
The overall height of this truss excluding overhang is 3-10-15.



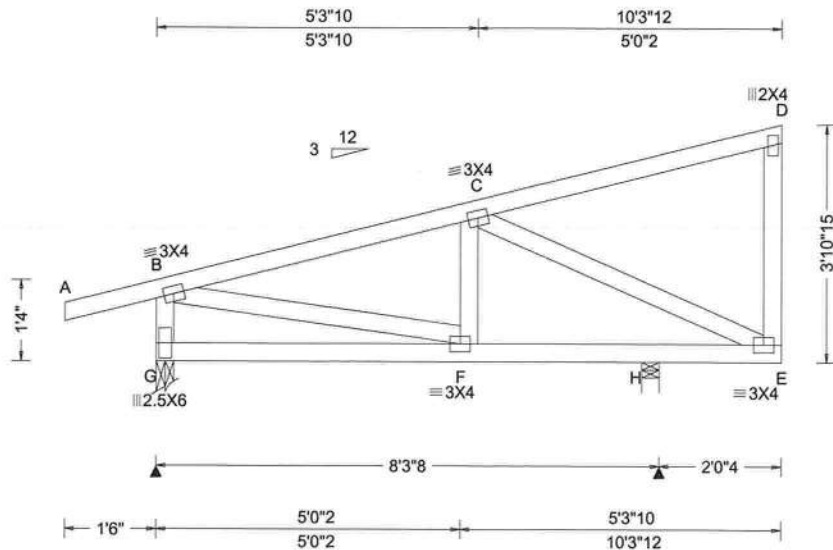
FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp.
F - E 525 -185

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
B - G 220 -478 C - E 201 -572
B - F 520 -72

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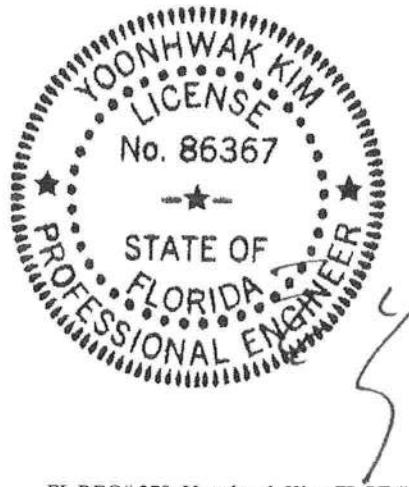


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.112 D 231 240 VERT(CL): 0.220 D 117 240 HORZ(LL): 0.038 D - - HORZ(TL): 0.075 D - - Creep Factor: 2.0 Max TC CSI: 0.426 Max BC CSI: 0.500 Max Web CSI: 0.201 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL G 423 /- /- /229 /81 /84 H 517 /- /- /250 /103 /- Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 H Brg Width = 3.5 Min Req = 1.5 Bearings G & H are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. F - E 496 -301

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Right cantilever is exposed to wind

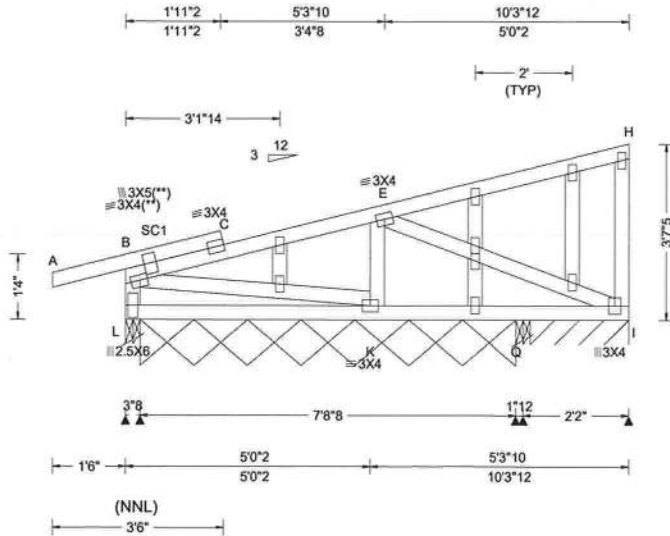
Additional Notes
The overall height of this truss excluding overhang is 3-10-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf) TCCL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.020 C 999 240 VERT(CL): 0.038 C 999 240 HORZ(LL): 0.005 C - - HORZ(TL): 0.010 C - - Creep Factor: 2.0 Max TC CSI: 0.232 Max BC CSI: 0.223 Max Web CSI: 0.373 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs), or *=PLF <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>296</td> <td>-</td> <td>-</td> <td>/164</td> <td>/78</td> <td>/84</td> </tr> <tr> <td>L*</td> <td>62</td> <td>-</td> <td>-</td> <td>/29</td> <td>/12</td> <td>-</td> </tr> <tr> <td>Q</td> <td>91</td> <td>-</td> <td>-</td> <td>/61</td> <td>-</td> <td>-</td> </tr> <tr> <td>I*</td> <td>56</td> <td>-</td> <td>-</td> <td>/23</td> <td>/21</td> <td>-</td> </tr> </tbody> </table>						Loc	Gravity			Non-Gravity			R+	R-	/Rh	/Rw	/U	/RL	L	296	-	-	/164	/78	/84	L*	62	-	-	/29	/12	-	Q	91	-	-	/61	-	-	I*	56	-	-	/23	/21	-
				Loc	Gravity			Non-Gravity																																										
R+	R-	/Rh	/Rw		/U	/RL																																												
L	296	-	-	/164	/78	/84																																												
L*	62	-	-	/29	/12	-																																												
Q	91	-	-	/61	-	-																																												
I*	56	-	-	/23	/21	-																																												
Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2;				Wind reactions based on MWFRS L Brg Width = 3.5 Min Req = 1.5 L Brg Width = 92.5 Min Req = - Q Brg Width = 3.5 Min Req = 1.5 I Brg Width = 24.2 Min Req = - Bearings L, L, Q, & Q are a rigid surface. Members not listed have forces less than 375#																																														

Plating Notes
 All plates are 2X4 except as noted.
 (**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.

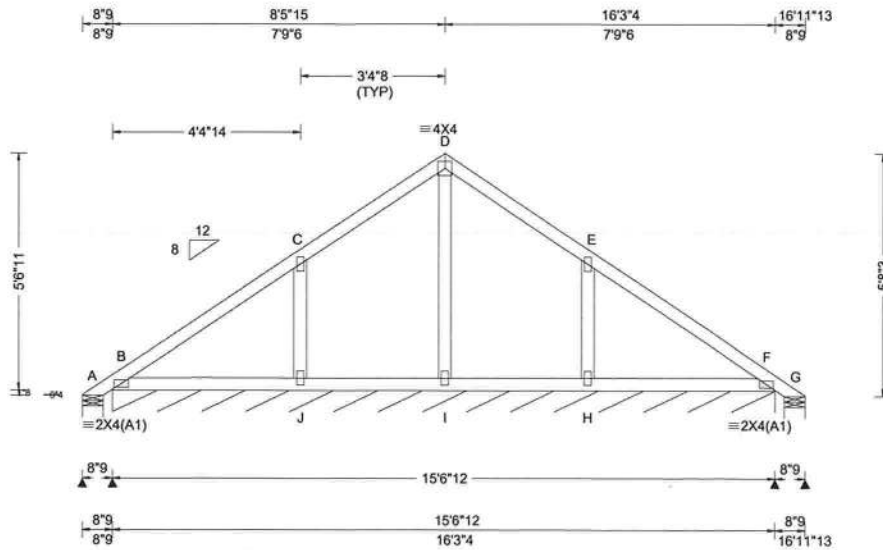
Additional Notes
 See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.
 Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.
 The overall height of this truss excluding overhang is 3-7.5.



FL REG# 278, Yoonhwak Kim, FL PE #86367
 06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.13 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 6.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 J 999 240 VERT(CL): 0.003 J 999 240 HORZ(LL): 0.001 E - - HORZ(TL): 0.002 H - - Creep Factor: 2.0 Max TC CSI: 0.242 Max BC CSI: 0.157 Max Web CSI: 0.066 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A - /-81 /- /111 /152 /165 B* 100 /- /- /52 /12 /- G - /-81 /- /35 /62 /- Wind reactions based on MWFRS A Brg Width = 5.9 Min Req = 1.5 B Brg Width = 186 Min Req = - G Brg Width = 5.9 Min Req = 1.5 Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Purlins

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

Wind

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

Additional Notes

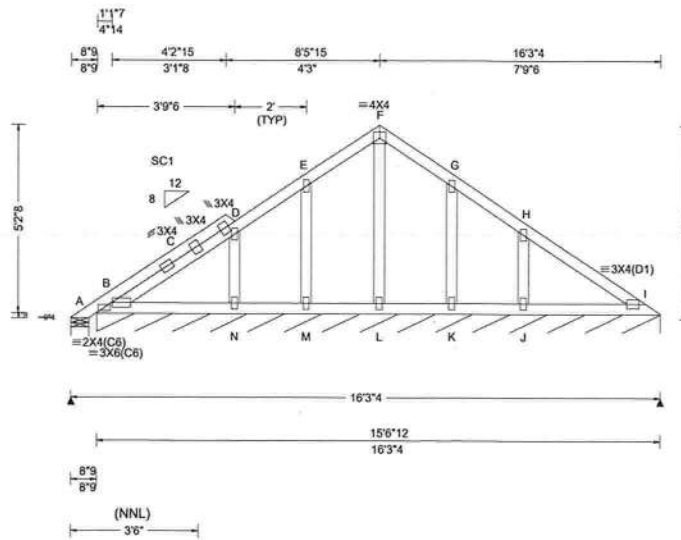
Refer to DWG PB160101014 for piggyback details.
The overall height of this truss excluding overhang is 5-8-3.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.13 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 6.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 C 999 240 VERT(CL): 0.013 C 999 240 HORZ(LL): 0.002 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.159 Max BC CSI: 0.105 Max Web CSI: 0.082 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL A - /-53 /- /26 /37 /46 B* 88 /- /- /49 /- /- Wind reactions based on MWFRS A Brg Width = 5.9 Min Req = 1.5 B Brg Width = 186 Min Req = - Bearings A & B are a rigid surface. Members not listed have forces less than 375#

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

Plating Notes
 All plates are 2X4 except as noted.

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

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

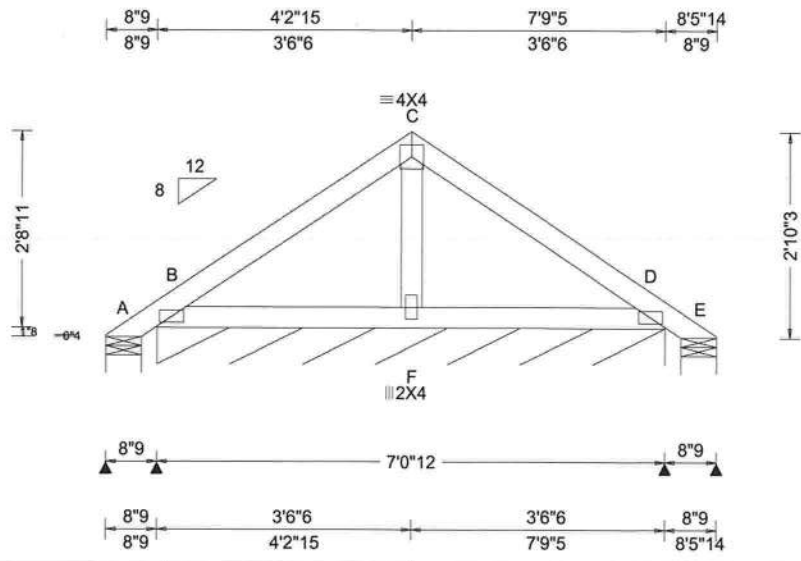
Additional Notes
 Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.
 Refer to DWG PB160101014 for piggyback details.
 The overall height of this truss excluding overhang is 5-4.0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
 06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.72 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any Gcpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 F 999 240 VERT(CL): 0.002 F 999 240 HORZ(LL): -0.001 F - - HORZ(TL): 0.002 F - - Creep Factor: 2.0 Max TC CSI: 0.146 Max BC CSI: 0.131 Max Web CSI: 0.018 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ /R- /Rh /Rw /U /RL Non-Gravity A - /-61 /- /63 /87 /79 B* 113 /- /- /56 /16 /- E - /-61 /- /29 /44 /- Wind reactions based on MWFRS A Brg Width = 5.9 Min Req = 1.5 B Brg Width = 84.7 Min Req = - E Brg Width = 5.9 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

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

Purlins

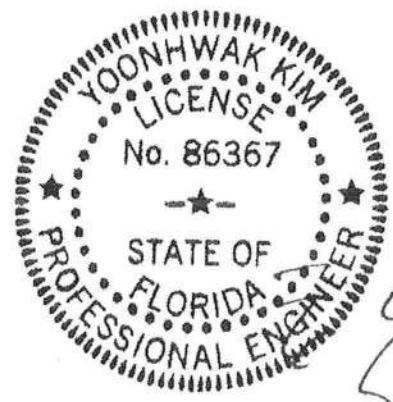
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Additional Notes

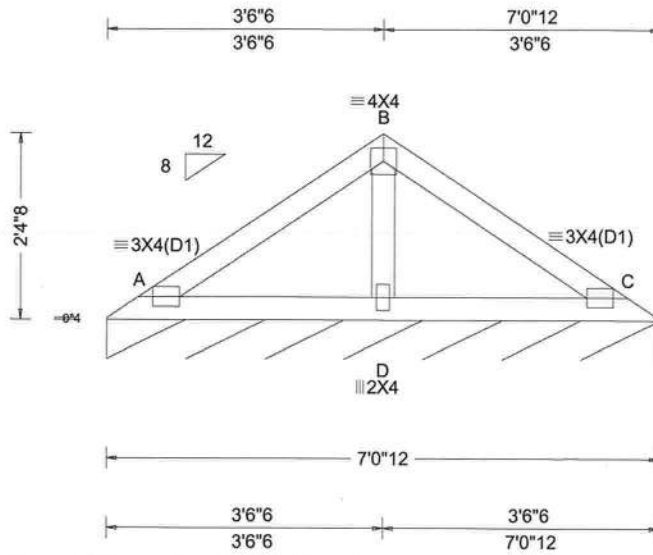
Refer to DWG PB160101014 for piggyback details.
The overall height of this truss excluding overhang is 2-10-3.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.72 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 D 999 240 VERT(CL): 0.009 D 999 240 HORZ(LL): -0.001 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.167 Max BC CSI: 0.135 Max Web CSI: 0.061 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ /R- /Rh /Rw /U /RL Non-Gravity /A1 /- /- Wind reactions based on MWFRS A Brg Width = 84.7 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Purlins

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

Wind

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

Additional Notes

Refer to DWG PB160101014 for piggyback details.
The overall height of this truss excluding overhang is 2'-6-0.



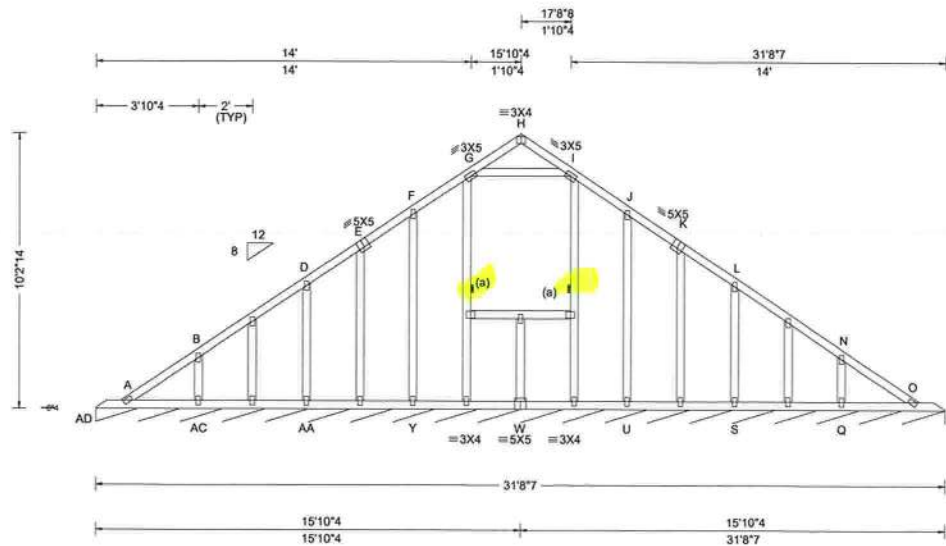
FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.35 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.17 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 H 999 240 VERT(CL): 0.004 H 999 240 HORZ(LL): -0.004 F - - HORZ(TL): 0.005 F - - Creep Factor: 2.0 Max TC CSI: 0.093 Max BC CSI: 0.055 Max Web CSI: 0.139 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL P* 83 /- /- /44 /15 /9 Wind reactions based on MWFRS P Brg Width = 380 Min Req = - Bearing AD is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

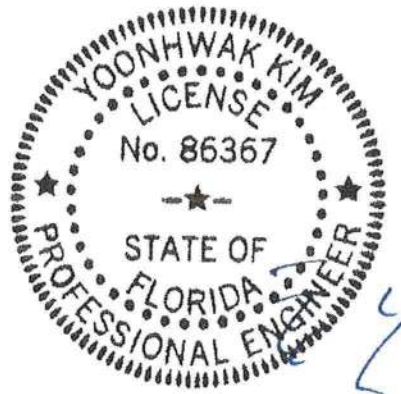
Wind

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

Additional Notes

See DWGS A14030ENC101014 & GBULLETIN0118 for gable wind bracing and other requirements.

The overall height of this truss excluding overhang is 10-2-14.



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06/24/2020

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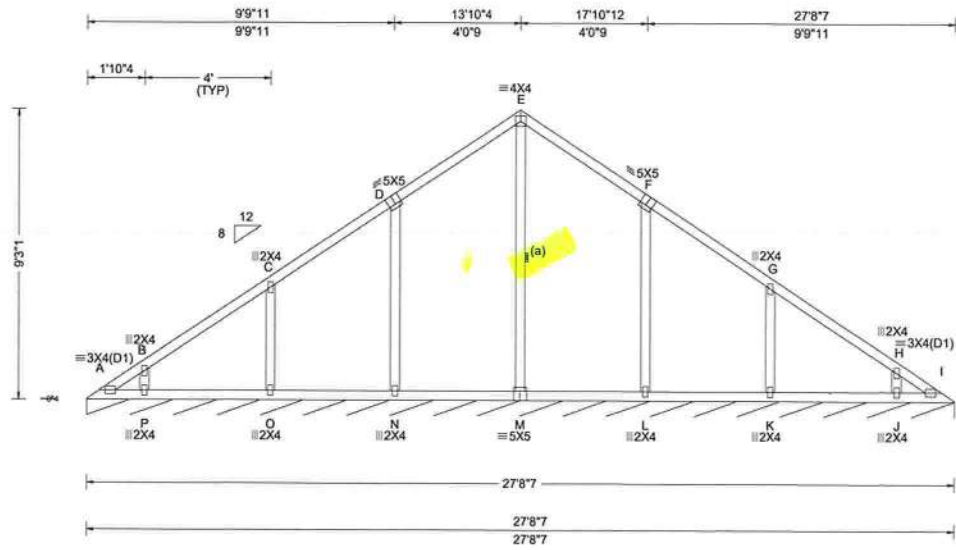
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6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 19.20 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 F 999 240 VERT(CL): 0.003 F 999 240 HORZ(LL): -0.003 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.256 Max BC CSI: 0.143 Max Web CSI: 0.223 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL I* 83 /- /- /44 /13 /9 Wind reactions based on MWFRS I Brg Width = 332 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 9-3-1.



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 06/24/2020

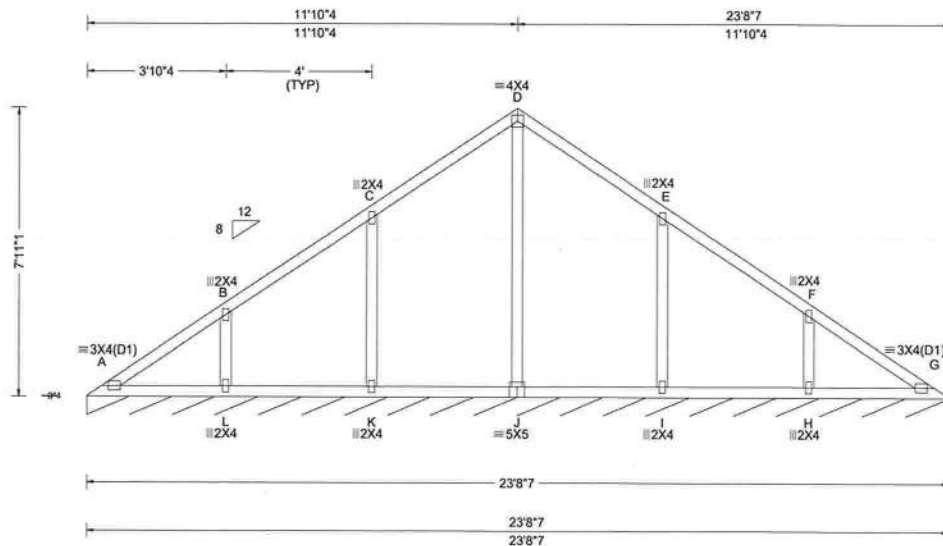
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCCL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 19.87 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 L 999 240 VERT(CL): 0.010 L 999 240 HORZ(LL): -0.002 C - - HORZ(TL): 0.004 L - - Creep Factor: 2.0 Max TC CSI: 0.271 Max BC CSI: 0.142 Max Web CSI: 0.256 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL G* 83 /- /- /44 /13 /9 Wind reactions based on MWFRS G Brg Width = 284 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Additional Notes

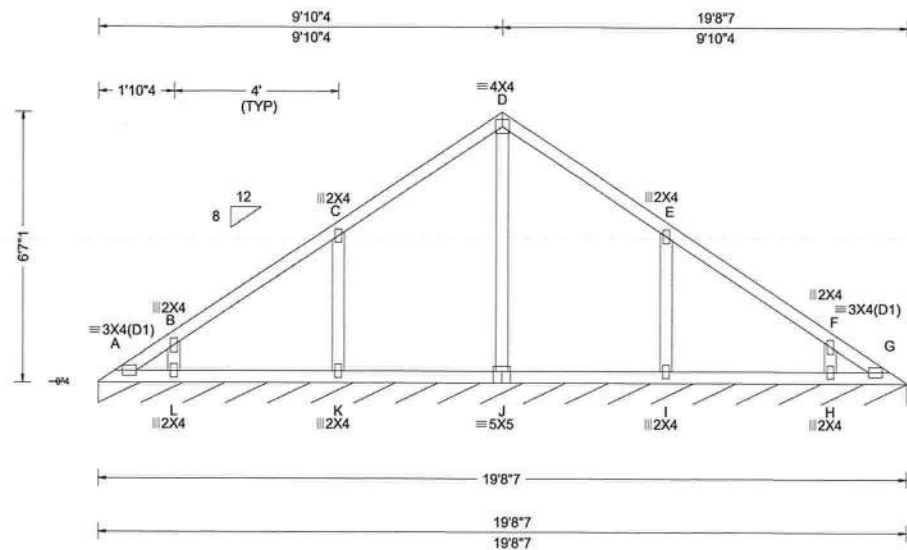
See DWG VAL 160101014 for valley details.
 The overall height of this truss excluding overhang is 7-11-1.



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 06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.54 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 D 999 240 VERT(CL): 0.002 D 999 240 HORZ(LL): -0.002 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.284 Max BC CSI: 0.146 Max Web CSI: 0.133 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ /R- /Rh /Rw /U /RL Non-Gravity G* 83 /- /- /44 /12 /9 G Brg Width = 236 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Additional Notes

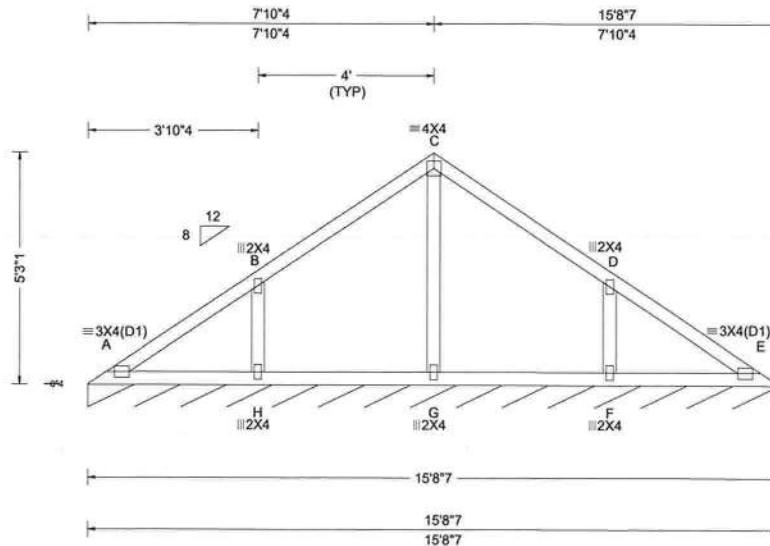
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 6-7-1.



FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 H 999 240 VERT(CL): 0.008 H 999 240 HORZ(LL): -0.002 F - - HORZ(TL): 0.004 F - - Creep Factor: 2.0 Max TC CSI: 0.275 Max BC CSI: 0.139 Max Web CSI: 0.116 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL E* 83 /- /- /44 /12 /9 Wind reactions based on MWFRS E Brg Width = 188 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

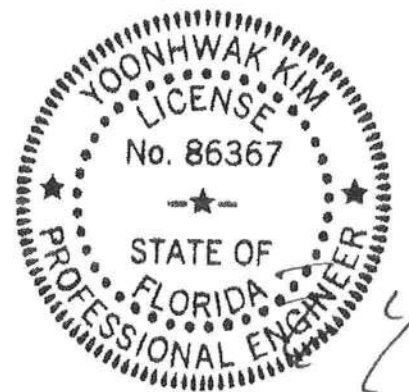
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 5-3-1.



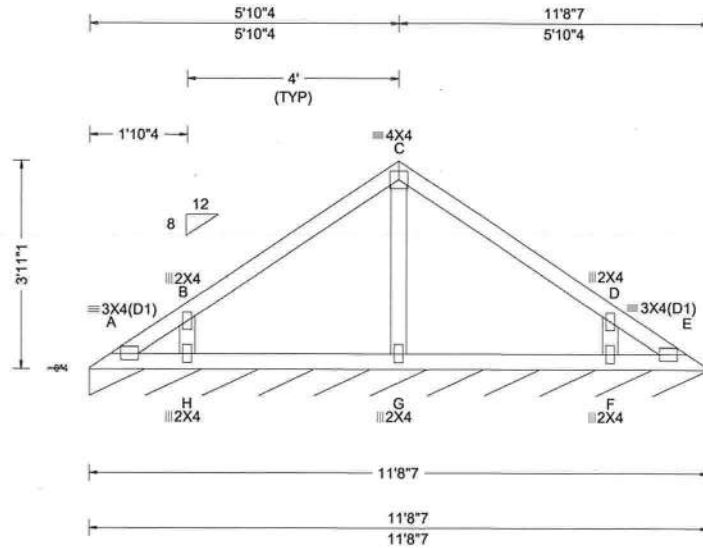
FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 21.87 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 C 999 240 VERT(CL): 0.001 C 999 240 HORZ(LL): -0.001 B - - HORZ(TL): 0.001 H - - Creep Factor: 2.0 Max TC CSI: 0.247 Max BC CSI: 0.153 Max Web CSI: 0.057 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity E* 83 /- /- /43 /5 /9 Wind reactions based on MWFRS E Brg Width = 140 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Additional Notes

See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 3-11-1.



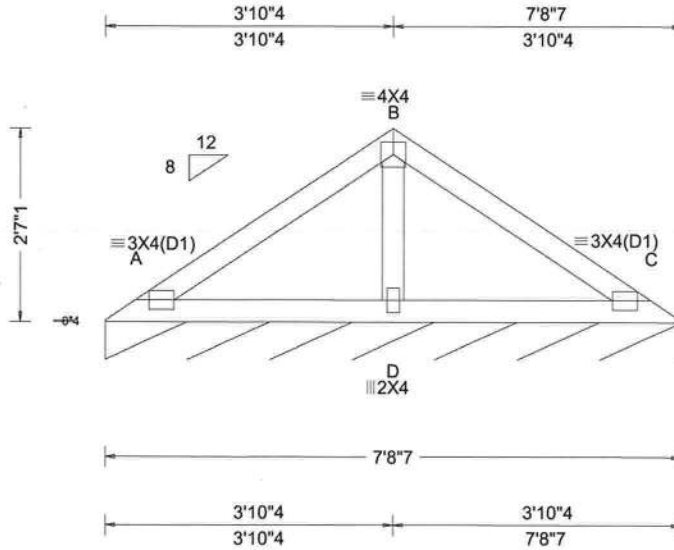
FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 22.54 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.006 D 999 240 VERT(CL): 0.011 D 999 240 HORZ(LL): -0.003 D - - HORZ(TL): 0.006 D - - Creep Factor: 2.0 Max TC CSI: 0.203 Max BC CSI: 0.161 Max Web CSI: 0.072 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL C* 82 /- /- /42 /5 /8 Wind reactions based on MWFRS C Brg Width = 92.4 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Additional Notes

See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 2-7-1.



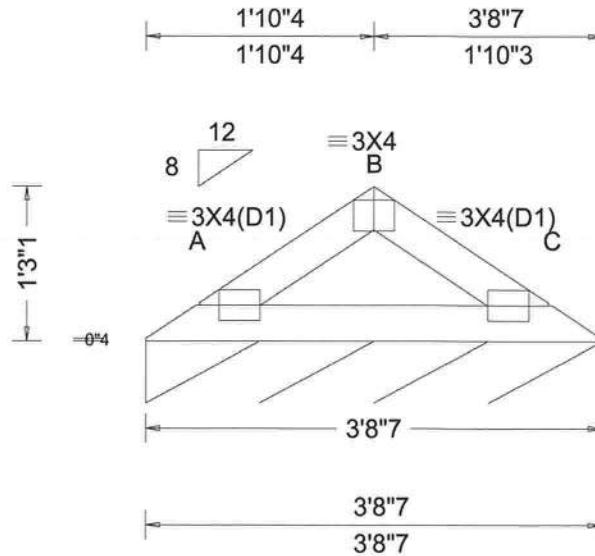
FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 23.20 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.003 999 240 VERT(CL): 0.005 999 240 HORZ(LL): -0.001 - - HORZ(TL): 0.002 - - Creep Factor: 2.0 Max TC CSI: 0.062 Max BC CSI: 0.088 Max Web CSI: 0.000 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL C* 79 /- /- /38 /4 /7 Wind reactions based on MWFRS C Brg Width = 44.4 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#
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Lumber

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

Wind

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

Additional Notes

See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 1-3-1.



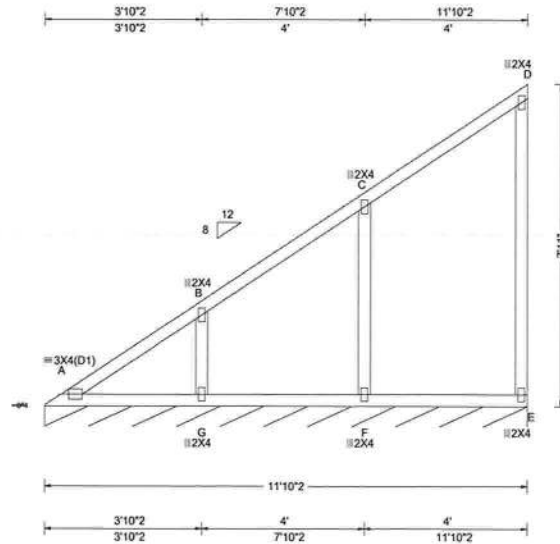
FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 G 999 240 VERT(CL): 0.010 G 999 240 HORZ(LL): -0.003 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.270 Max BC CSI: 0.163 Max Web CSI: 0.144 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ /R- /Rh /Rw /U /RL E* 83 /- /- /58 /3 /12 Wind reactions based on MWFRS E Brg Width = 142 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes

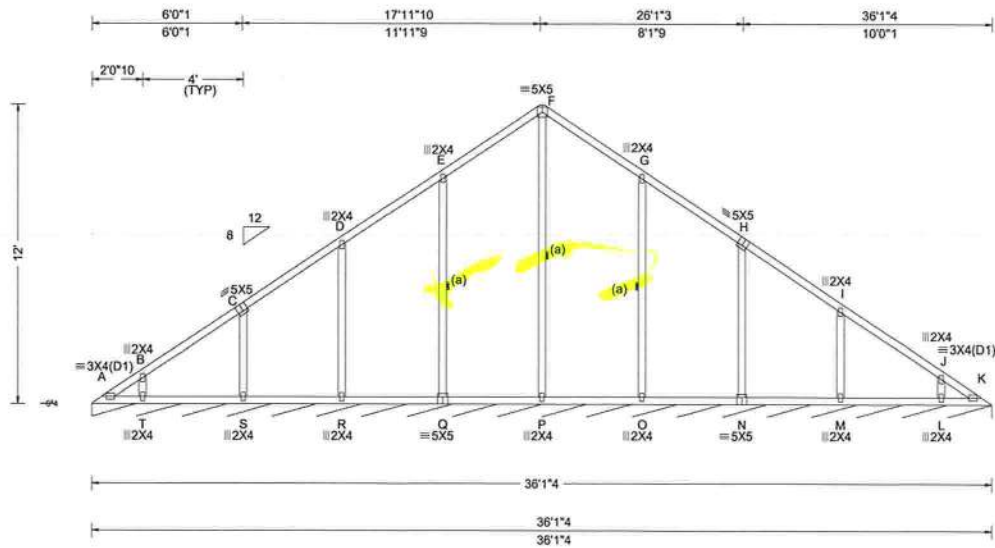
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 7-11-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.06 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.61 ft Loc. from endwall: not in 9.0 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 G 999 240 VERT(CL): 0.005 G 999 240 HORZ(LL): 0.006 G - - HORZ(TL): 0.009 G - - Creep Factor: 2.0 Max TC CSI: 0.272 Max BC CSI: 0.145 Max Web CSI: 0.199 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL K* 84 /- /- /45 /1 /9 Wind reactions based on MWFRS K Brg Width = 433 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

See DWG VAL160101014 for valley details.

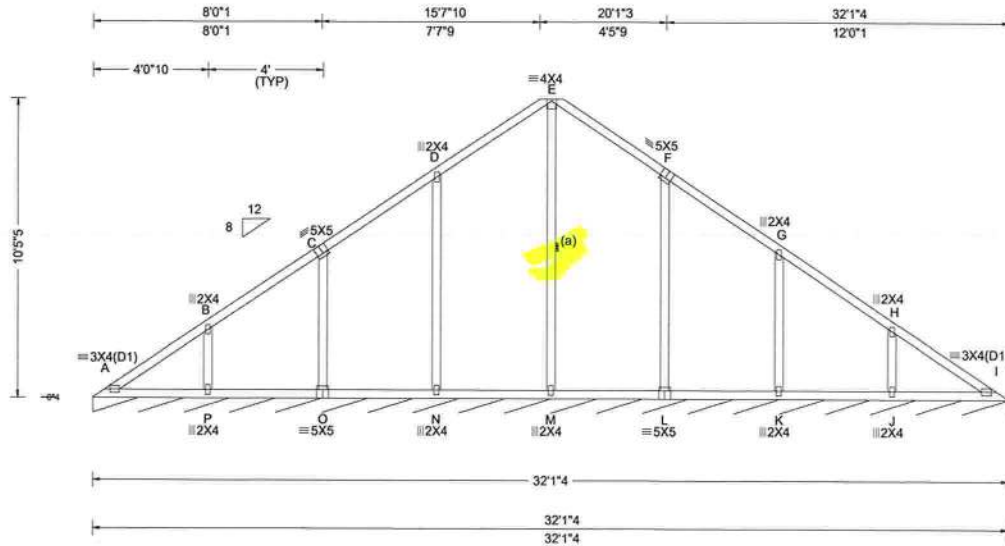
The overall height of this truss excluding overhang is 12'-0".



FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.62 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.21 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.006 J 999 240 VERT(CL): 0.012 J 999 240 HORZ(LL): 0.005 F - - HORZ(TL): 0.007 F - - Creep Factor: 2.0 Max TC CSI: 0.273 Max BC CSI: 0.153 Max Web CSI: 0.345 VIEW Ver: 19.02.02B.0122.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity /44 /2 /9 Wind reactions based on MWFRS I Brg Width = 385 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

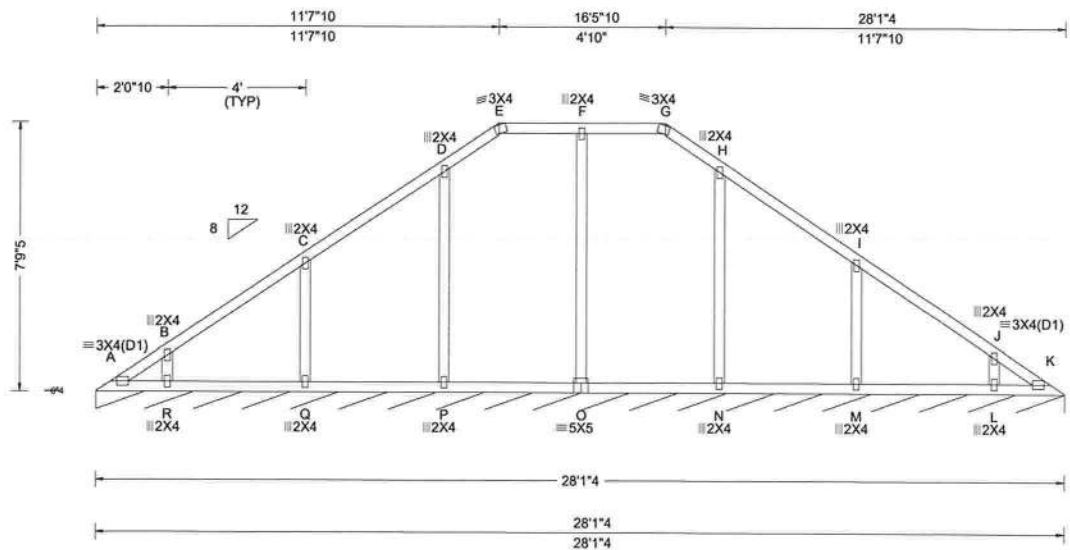
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 10'-5-5/8".



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06/24/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.62 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 G 999 240 VERT(CL): 0.009 G 999 240 HORZ(LL): -0.003 D - - HORZ(TL): 0.004 D - - Creep Factor: 2.0 Max TC CSI: 0.233 Max BC CSI: 0.148 Max Web CSI: 0.225 VIEW Ver: 19.02.02B.0122.15	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL K* 83 /- /- /44 /3 /7 Wind reactions based on MWFRS K Brg Width = 337 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Additional Notes

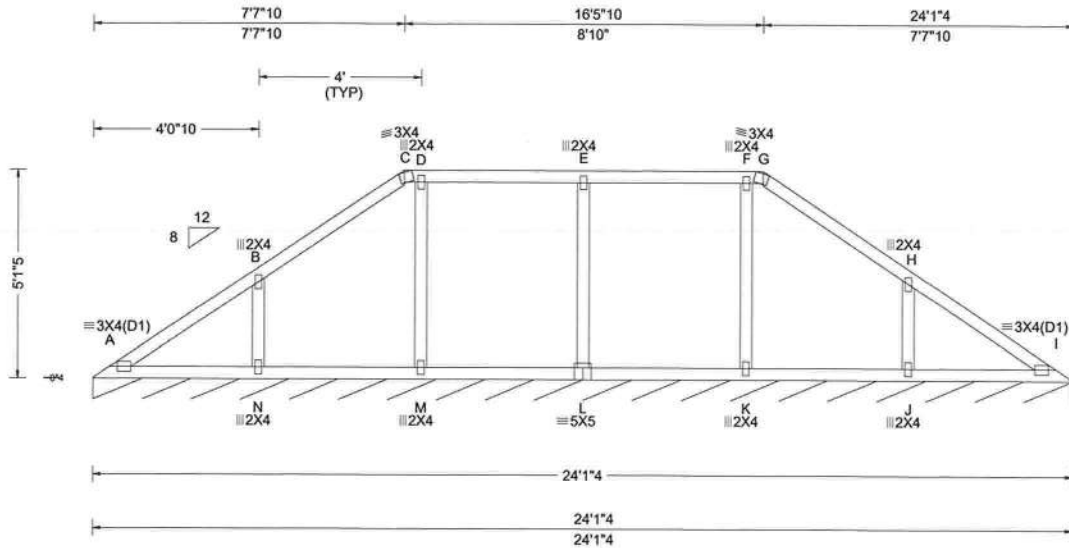
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 7-9-5.



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06/24/2020

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





Loading Criteria (psf) TCCL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.62 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.005 J 999 240 VERT(CL): 0.011 J 999 240 HORZ(LL): 0.002 N - - HORZ(TL): 0.004 N - - Creep Factor: 2.0 Max TC CSI: 0.233 Max BC CSI: 0.150 Max Web CSI: 0.121 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs), or *PLF <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>I*</td> <td>83</td> <td>/-</td> <td>/-</td> <td>/43</td> <td>/13</td> <td>/6</td> </tr> </tbody> </table> Wind reactions based on MWFRS I Brg Width = 289 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	I*	83	/-	/-	/43	/13	/6
Loc	Gravity			Non-Gravity																				
	R+	/R-	/Rh	/Rw	/U	/RL																		
I*	83	/-	/-	/43	/13	/6																		

Lumber

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

Wind

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

Additional Notes

See DWG VAL160101014 for valley details.
 The overall height of this truss excluding overhang is 5-1-5.



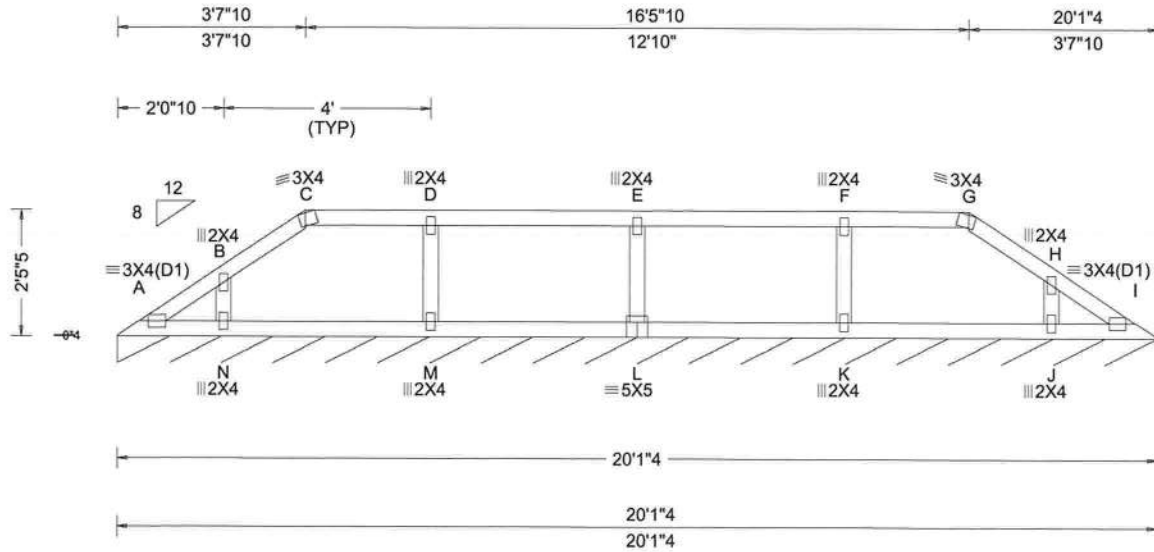
FL REG# 278, Yoonhwak Kim, FL PE #86367
 06/24/2020

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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.62 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.003 G 999 240 VERT(CL): 0.007 G 999 240 HORZ(LL): -0.001 G - - HORZ(TL): 0.003 B - - Creep Factor: 2.0 Max TC CSI: 0.225 Max BC CSI: 0.152 Max Web CSI: 0.053 VIEW Ver: 19.02.02B.0122.15	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL I* 83 /- /- /41 /14 /3 Wind reactions based on MWFRS I Brg Width = 241 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#
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Lumber

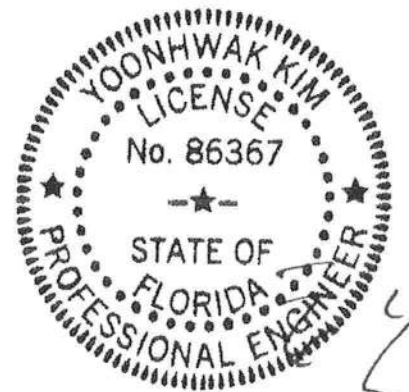
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 2-5-5.



FL REG# 278, Yoonhwak Kim, FL PE #86367
06/24/2020

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



6750 Forum Drive
Suite 305
Orlando FL, 32821

Gable Stud Reinforcement Detail

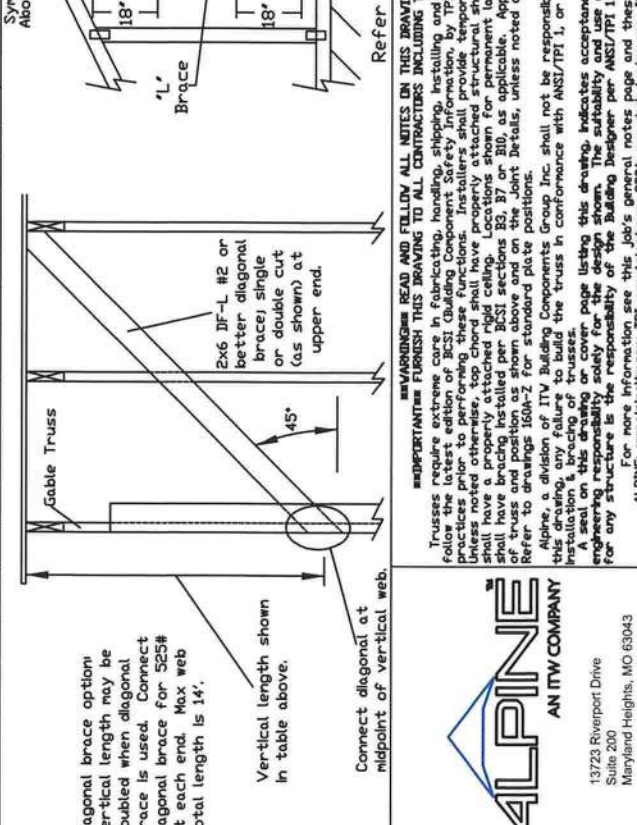
ASCE 7-10: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

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

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

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



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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.

Refer to chart above for max. gable vertical length

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

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

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

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

* For 1D 'L' brace: space nails at 2' o.c.

* In 1B' end zones and 4' o.c. between zones.

** For 2D 'L' braces: space nails at 3' o.c.

* In 1B' end zones and 6' o.c. between zones.

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

Wind Load deflection criteria is L/240.

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

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

Gable Truss Detail Notes:

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

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

Bracing Group Species and Grades:

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

Group B:

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

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Suite 200
Maryland Heights, MO 63043

ALPINE AN ITW COMPANY

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'

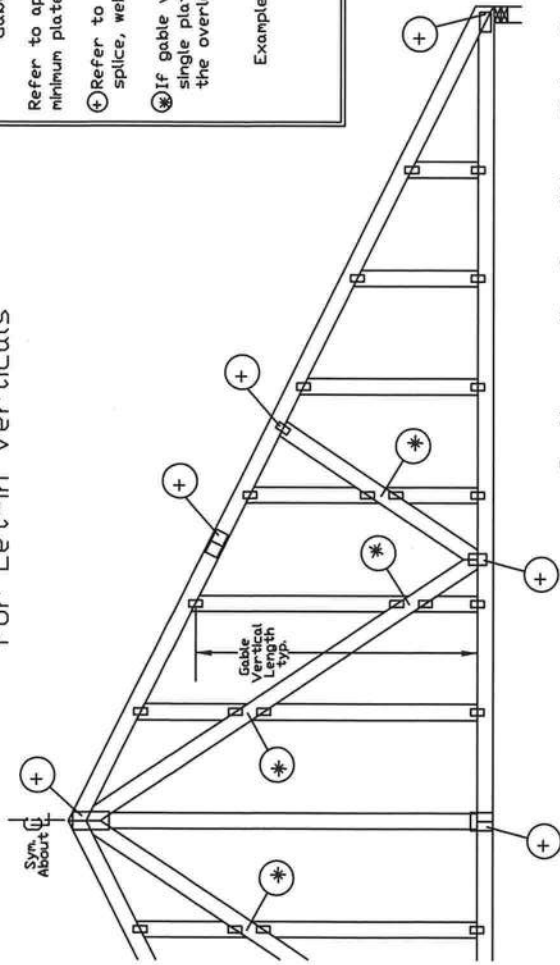
REF: ASCE7-10-GABI4030

DATE: 10/01/14

DRWG: A14030ENC101014

Yoonhwak Kim, FL PE #86367

Gable Detail For Let-in Verticals

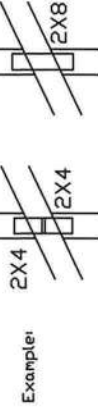


Gable Truss Plate Sizes

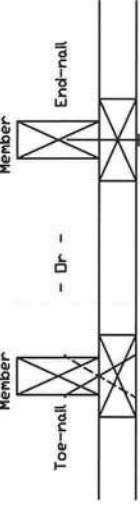
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

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

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



'T' Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

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

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ 'T' Brace

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

Example:
 ASCE 7-10 Wind Speed = 120 mph
 Mean Roof Height = 30 ft, Kzt = 1.00
 Gable Vertical = 24' o.c. SP #3
 'T' Reinforcing Member Size = 2x4
 'T' Brace Increase (From Above) = 30% = 1.30
 (1) 2x4 'L' Brace Length = 8' 7"
 Maximum 'T' Reinforced Gable Vertical Length = 1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

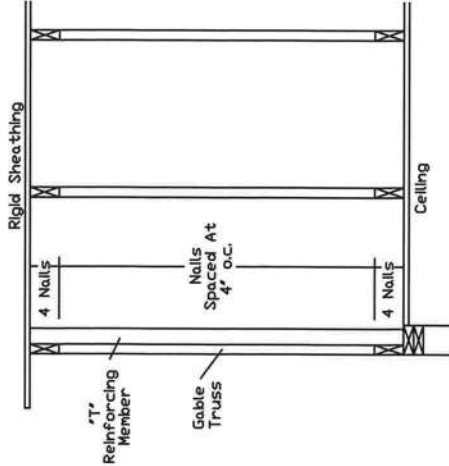
- End Driven Nails:
 10d Common (0.148"x 3", min) Nails at 4' o.c. plus
 (4) nails in the top and bottom chords.

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

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

- ASCE 7-05 Gable Detail Drawings
 A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
 A115150510118, A120150510118, A140150510118, A130150510118, A140150510118, A200150510118, A200150510118, A140300510118, A140300510118, A200300510118, A200300510118, A115150510118, S120150510118, S140150510118, S180150510118, S200150510118, S200150510118, S140300510118, S180300510118, S200300510118, S200300510118

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



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Refer to drawings 160A-Z for standard plate positions.

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A seal on this drawing or cover page listing the cover page listing the name of the Professional Engineer responsible for the design of this Building Designer per ANSI/TPI 1 shall be required for any structure built.

For more information, see this job's general notes page and these web sites: www.alpine.com and www.itv.com

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

NAIL SPACING DETAIL

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

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

LOAD PERPENDICULAR TO GRAIN

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

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

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

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

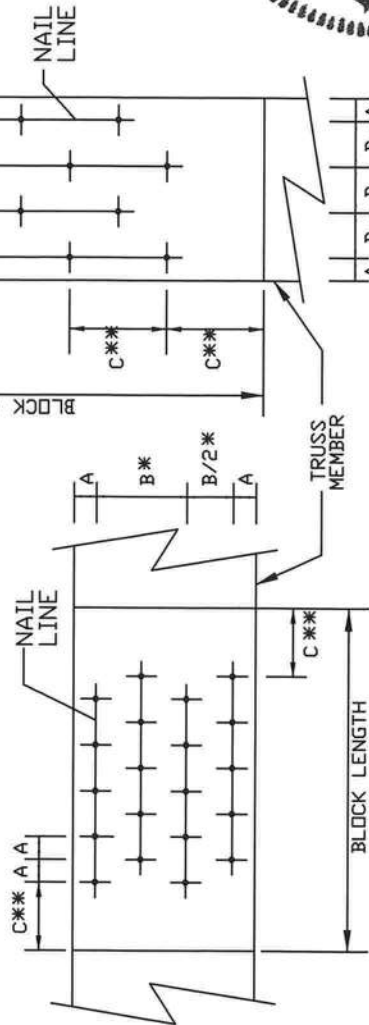
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

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

* SPACING MAY BE REDUCED BY 50%

** SPACING MAY BE REDUCED BY 33%

DIRECTION OF LOAD AND NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN LOAD APPLIED PARALLEL TO GRAIN

INSTALLERS MUST READ AND FOLLOW ALL NOTES ON THIS DRAWING INCLUDING THE INSTALLERS. UNLESS OTHERWISE 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 OF TRUSS AND POSITION OF NAILS SHALL BE AS SHOWN IN THE DRAWING. REFER TO DRAWINGS 160A-2 FOR STANDARD PLATE POSITIONS.

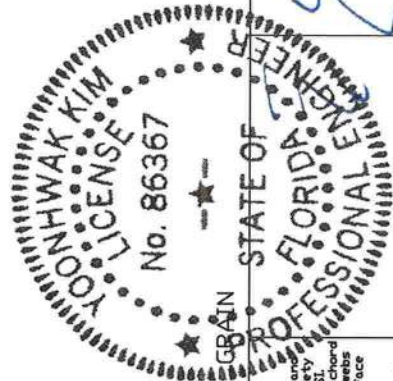
ALPINE, A DIVISION OF ITV BUILDING COMPONENTS GROUP INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DRAWING, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH ANS/ITP 1, OR FOR HANDLING, SHIPPING, INSTALLATION & BRACING OF TRUSSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ENGINEERING RESPONSIBILITY FOR THE STRUCTURE IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/ITP 1 SEC 2 FOR ANY STRUCTURE.



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

MINIMUM NAIL SPACING DISTANCES

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



REF NAIL SPACE

DATE 10/01/14

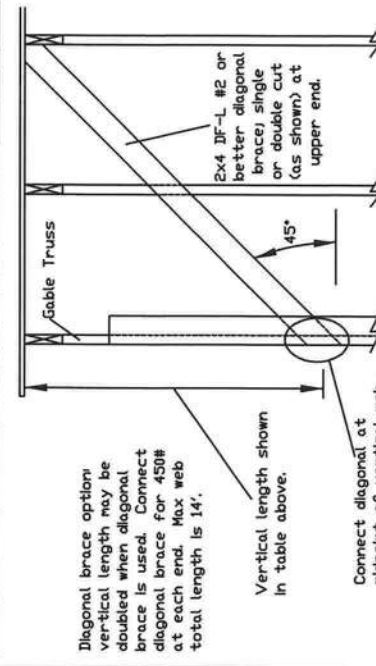
DRWG CANNAIL.SP1014

Gable Stud Reinforcement Detail

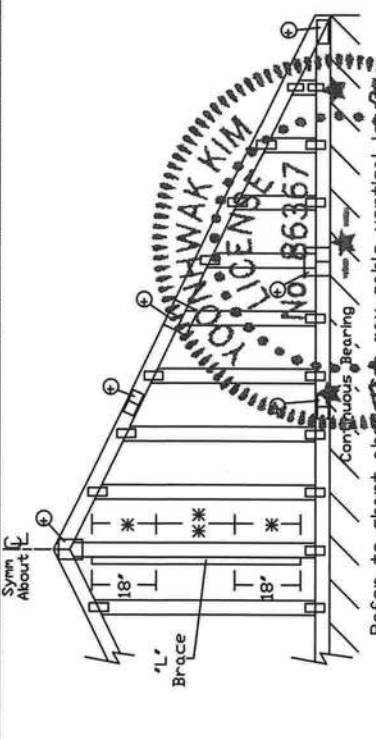
ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Or: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
 Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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



Diagonal brace options: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.
 Vertical length shown in table above.
 Connect diagonal at midpoint of vertical web.



IMPORTANT! READ AND FOLLOW ALL NOTES ON THIS DRAWING INCLUDING THE INSTALLERS.
 Trusses require erection, handling, shipping, installing and bracing. Refer to and follow the latest edition of the IBC, ASCE 7, and applicable code requirements. Truss practices prior to performing these functions. Installers shall provide temporary bracing per IBC. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per IBC sections 8.2, 8.7 or 8.10, as applicable. Apply plates to each face. Refer to drawings 150A-2 for standard plate positions. Details, unless noted otherwise.
 Alpine, a division of ITV 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 the name of the engineer, the date of the drawing, the engineering responsibility, safety for the design shown. The suitability and use of this drawing for any structure. For more information, visit www.alpine.com or call 1-800-451-2222.
 ALPINE: www.alpine.com TPI: www.tpi.com IBC: www.ibc.com

ALPINE
 AN ITV COMPANY

13723 Riverport Drive
 Sallis 200
 Maryland Heights, MO 63043

Bracing Group Species and Grades:

Group A:		Group B:	
Spruce-Pine-Fir	Hein-Fir	Spruce-Pine-Fir	Hein-Fir
#1 / #2	#2	#1 / #2	#2
Standard	Standard	Standard	Standard
#3	#3	#3	#3
Standard	Standard	Standard	Standard

Southern Pine:

#1	#2
Standard	Standard

Douglas Fir-Larch:

#1	#2
Standard	Standard

Group B:

Hein-Fir	#1 & Btr
#1	#1
Standard	Standard

Douglas Fir-Larch:

#1	#2
Standard	Standard

1x4 Braces shall be SRB (Stress-Rated Board).
 For 1x4 So. Pine use only Industrial S5 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.
Gable Truss Detail Notes:
 Wind Load deflection criterion is L/240.
 Provide uplift connections for 55 plf over continuous bearing (3 psf TC Dead Load).
 Gable end supports load from 4' o.c. outlookers with 2' o.c. overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
 For (1) 'L' brace: space nails at 2' o.c. in 18" end zones and 4' o.c. between zones.
 For (2) 'L' braces: space nails at 3' o.c. in 18" end zones and 6' o.c. between zones.
 'L' bracing must be a minimum of 80% of web member length.

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

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

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

REF	ASCE7-10-GABI4015
DATE	10/01/14
DRWG	A14015ENC101014
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0'

ALPINE #278, Yoonhwak Kim, FL PE #86367

Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

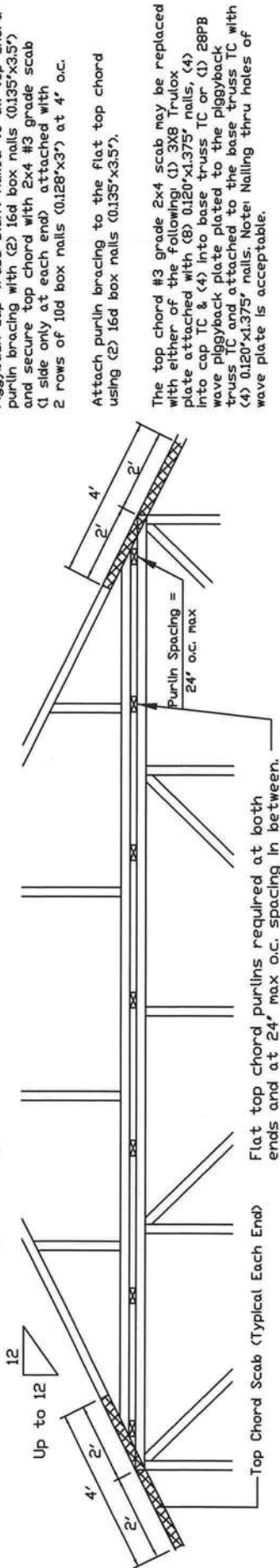
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp D, Wind DL= 5.0 psf (min), Kzt=1.0.

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

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

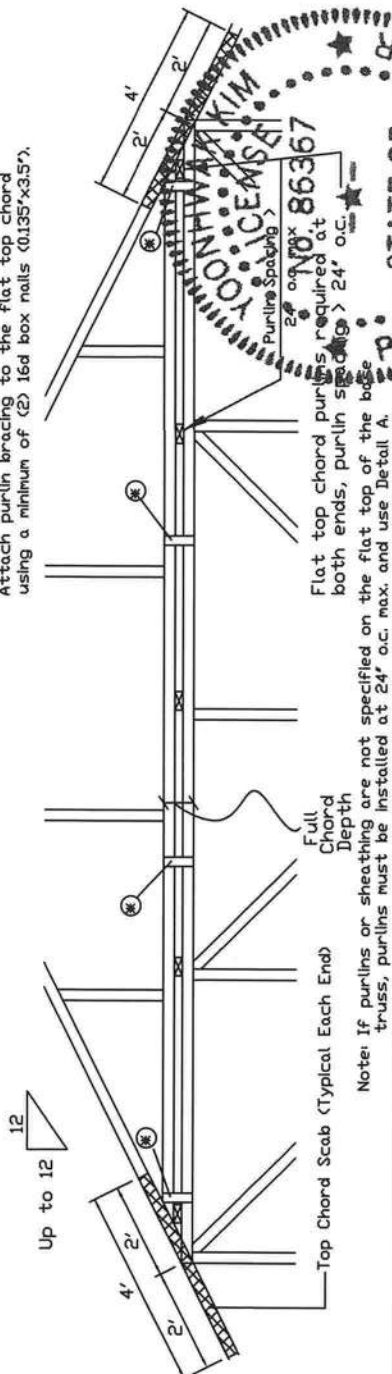
Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

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



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

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



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

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

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

REF	PIGGYBACK
DATE	10/01/14
DRWG	PB160101014
SPACING	24.0'

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING INCLUDING THE INSTALLERS.
Trusses require erection, bracing, shipping, handling, installation, and bracing. Refer to and follow the latest edition of BCSI (Building Components Institute) Building Design per ANSI/TPI 1.1. 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 webs as shown in detail, unless noted otherwise.

Alpine, a division of ITV 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, or bracing of trusses.

A seal on this drawing or cover page listing the drafter, indicates acceptance of professional engineering responsibility for the design shown. The suitability and use of this drawing for any structure are the responsibility of the building designer per ANSI/TPI 1.1.1. For more information see this job's general notes page and the web sites ALPINE: www.alpineinc.com TPI: www.tpiinc.com SBCA: www.sbcainc.com ICD: www.icd.com

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Yoonhwa Kim
Professional Engineer
No. 86367
STATE OF FLORIDA
Purlin Spacing > 24' o.c.
28PB Wave Piggyback Plate

Valley Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

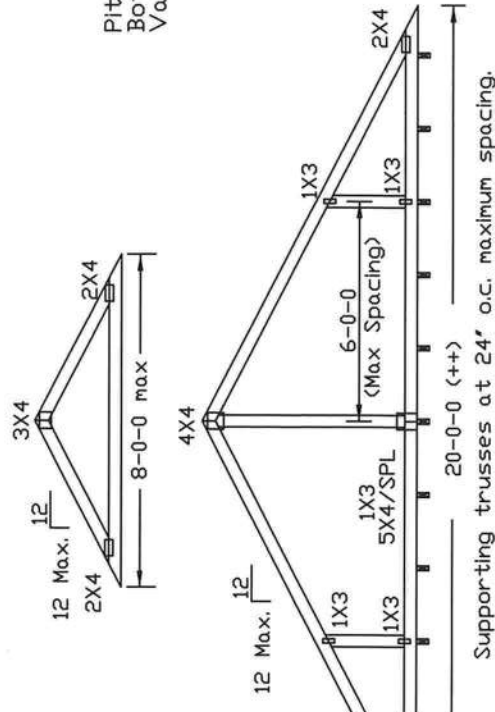
Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
 Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
 Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
 (2) 16d box (0.135" x 3.5") nails toe-nailed to
 ASCE 7-10 160 mph, 30' Mean Height, Enclosed
 Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
 Or
 ASCE 7-10 140 mph, 30' Mean Height, Enclosed
 Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

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

All plates shown are ITW BCG Wave Plates.



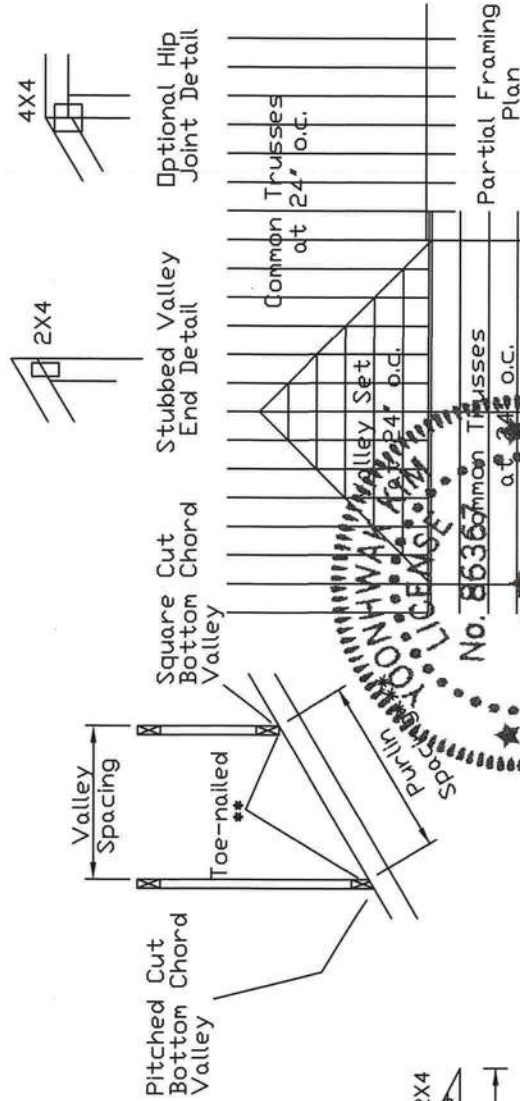
Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7'-9" apply 2x4 'T' reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6' o.c. In lieu of 'T' reinforcement, 2x4 Continuous Lateral Restraint applied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

Top chord of truss beneath valley set must be braced with: properly attached, rated sheathing applied prior to valley truss installation.
 Or
 Purlins at 24' o.c. or as otherwise specified on engineer's sealed design

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

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

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



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 SBCIA for safety and bracing information. Trusses shall be braced per the instructions on the BCSI Building Component Safety Information. Trusses 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 104k-2 for standard plate positions.
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from the design shown on this drawing if the truss is not installed 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 Sec2.
 For more information see this job's general notes page and these web sites:
 ALPINE: www.alpineinc.com TPI: www.tpi.net SBCI: www.sbcigroup.com ICC: www.iccsafe.org

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REV	DATE	BY	CHK	APP	DESCRIPTION																		
1	10/01/2014				DRWG VAL160101014																		
<table border="1"> <tr> <td>TOT.</td> <td>D.</td> <td>60</td> <td>55</td> <td>57</td> <td>PSF</td> </tr> <tr> <td>DURFAC.</td> <td>1.25/1.33</td> <td>1.15</td> <td>1.15</td> <td></td> <td></td> </tr> <tr> <td>SPACING</td> <td colspan="2">24.0'</td> <td colspan="3"></td> </tr> </table>						TOT.	D.	60	55	57	PSF	DURFAC.	1.25/1.33	1.15	1.15			SPACING	24.0'				
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STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 86366
 Yoonhwak Kim, FL PE #86367